

# 2009 Navajo Nation Long Range Transportation Plan

## **Prepared For:**

Navajo Nation Department of Transportation December, 2009



## **ACKNOWLEDGMENTS**

The Navajo Division of Transportation wishes to acknowledge and recognize the following people for their support, contributions, or participation in the 2009 Navajo Long Range Comprehensive Transportation Plan development.

**Transportation and Community Development Committee:** 

Sampson Begay, Chairperson Willie Begay Leslie Dele David B. Rico Johnny Naize, Vice-Chair Omer Begay Lorenzo Bedonie Jerry Bodie

Advisor: Gerri Harrison

**Northern Navajo Agency Roads Committee:** 

Lena Clark, Chairperson John Billie Robert C. Begay Herman Farley

Stanley Hardy, Vice-Chair Lucinda Bennalley

**Western Navajo Agency Roads Committee:** 

Katerine Benally, Chairperson Chester Claw Evelyn Acothley Ernest Goatson Larry Goodman, Vice-Chair Lorenzo Isaac Jr. Freida Maloney Rosita Kelly

Harry Wagoner Stanley Clitso

**Eastern Navajo Agency Roads Committee:** 

David Lee, Chairperson Thomas Barbone Tony Padilla Frank Willeto
Anthony Begay, Vice-Chair Mark Begay Pauline McCauley Annabelle Pino

**Chinle Agency Roads Committee:** 

Leonard Pete, Chairperson Aaron Yazzie Samuel Yazzie Katherine Arthur

Percey Deal, Vice-Chair David Kedelty

**Fort Defiance Agency Roads Committee:** 

Raymond Berchman, Chair Mel Begay Roscoe Smith Roger Paul Andrew Simpson, Vice-Chair Bennie Hanley, Sr. Willis Nez Christine Wallace

**BIA - Navajo Region Division of Transportation:** 

Ervin Bekis Regional Road Engineer

Harold Riley Assistant Regional Road Engineer

Joan Greiser Road Maintenance Engineer

Corwyn Henry Structural Engineer

#### 2009 LRTP Technical Advisory Committee Members:

Andrew Bertelsen, Coconino County Ben Bennett, Behavioral Health Services

Charley Joe, Shiprock Chapter

Chris Fetzer, Northern Arizona Council of Governments

Dave Keck, San Juan County Ferrin Crosby, Apache County Harold Riley, Bureau of Indian Affairs Homero Vela, Navajo County

Jarvis Williams, Kayenta Township

John Harper, Arizona Department of Transportation

John McElroy, New Mexico Department of Transportation

Joyce Nez, Chinle Chapter

Lee Bigwater, Navajo Transit System

Lynn Johnson, Arizona Department of Transportation Monte Aldridge, Utah Department of Transportation

Robert Kuipers, Regional Planning Organization - Northwest New Mexico Council of Governments

Calvin Castillo, NRODOT- Fort Defiance Agency Robert Montoya, NRODOT- Northern Navajo Agency

Dineh Benally, NRODOT- Eastern Navajo Agency

#### The following individuals or organizations:

Trib Choudhary, Division of Economic Development John Largo, Division of Economic Development Verginia Yazzie, Navajo Tourism Development Phefelia Johnson, Navajo Nation Gaming Enterprise Martin Begay, Navajo Parks and Recreation

Bradley Nesemeier, Minerals Department

Robert L. Kirk, Water Management, Water Resources Department Jason Long, Water Management, Water Resources Department Government Development Office, Navajo Nation Legislative Branch

Kayenta Township

Federal Aviation Administration

Arizona Department of Transportation

New Mexico Department of Transportation

Utah Department of Transportation

Navajo Area Indian Health Service Program Planning and Evaluation

Winslow Indian Health Care Center, Incorporated

Alamo Navajo Health Center

Navajo Housing Authority

#### **Navajo Division of Transportation:**

Tom Platero	Larry Joe	Arlando Teller	Joe Salt
Riley Wilson	Margie Begay	Valcita Thompson	Yolanda Woody
Lemont Yazzie	Vanessa Taho	Leanne Roy	Darlene Jenkins
Jonah Begay	Velma Bitsitty	Theran Tallsalt	David Warren
Stephen Calvin	Patricia White	David Silversmith	<b>Emerson Tracey</b>

#### **Funding Agency:**

ADOT - Small Area Transportation Study Program

#### **Principal Editors:**

Don Sneed, ADOT Misty Dayzie, ADOT Harold Riley, NRO-DOT Dan Marum, Wilson & Company

#### **Principal Authors:**

Salisa Norstog, Navajo DOT Don Sneed, ADOT Susan Anderson, Wilson & Company Jim Townsend, Wilson & Company Jeff Swan, Woodson Engineering

CHA	PTER I - INTRODUCTION	
A.	PLAN INTRODUCTION	
B.	PLAN GOALS	
C.	FEDERAL FUNDING OF INDIAN RESERVATION ROAD SYSTEM	
D.	SAFETEA-LU REVIEW	
E.	ROAD CONSTRUCTION FUNDS	
F.	NAVAJO NATION'S CONCERNS	
G.	LRTP PLANNING PROCESS	
H.	DOCUMENT ORGANIZATION	I-11
CHA	PTER II -NAVAJO NATION PROFILE	
A.	NAVAJO NATION GOVERNMENT	
B.	LAND BASE	
C.	POPULATION	
D.	NAVAJO NATION ECONOMY	
E.	LAND USE	II-5
F.	MODES OF TRANSPORTATION	II-7
CHA	PTER III - NAVAJO NATION INDIAN RESERVATION ROAD SYSTEM	III-1
A.	NAVAJO NATION IRR SYSTEM	
B.	NAVAJO-BIA ROADS	
C.	TRIBAL ROADS	
D.	STATE ROADS	
E.	COUNTY ROADS	
F.	OTHER BIA PROGRAM ROADS	
G. H.	OTHER FEDERAL AGENCY ROADSOTHER ROADS	
А. В.	APTER IV - NAVAJO-BIA ROADS TRAFFIC DEMAND  EXISTING TRAFFIC VOLUME  TRAFFIC DEMAND FORECAST	IV-1 IV-1
C.	TRAVEL PATTERNS	IV-2
CHA	PTER V -TRANSPORTATION NEEDS ASSESSMENT	V-1
A.	PLANNING METHODOLOGY	
B.	NAVAJO-BIA ROAD ISSUES AND NEEDS	
	NEED 1: Highway Geometric Design Deficiencies	
	NEED 2: Network Connectivity Needs	
	NEED 3: Pavement Deficiencies	
	NEED 4: Safety	
	NEED 5: Chapter House Access Needs	
	NEED 6: Growth Center Street Needs	
	NEED 7: Community Economic Development Transportation Needs	
	NEED 8: Scenic Byways, Tourism & Recreation Needs	1/ 15
	NEED 9: Multimodal Transportation Needs	V-49
	NEED 10: Other Transportation Needs	V-49 V-53
_	NEED 10: Other Transportation Needs	V-49 V-53 V-56
C.	NEED 10: Other Transportation Needs	V-49 V-53 V-56
СНА	NEED 10: Other Transportation Needs	V-49 V-53 V-56 V-61
СНА	NEED 10: Other Transportation Needs	V-49 V-53 V-56 V-61
СНА	NEED 10: Other Transportation Needs	V-49 V-53 V-56 V-61 VI-1
CHA Impi	NEED 10: Other Transportation Needs	V-49 V-53 V-56 V-61 VI-1

D.	Safety Improvements	VI-5
	1. Safety Improvement Program	
	2. Open Range Policy	VI-6
	3. Vendors in the ROW	
	4. Access Management	VI-6
	5. Navajo Nation Access Management	VI-6
	6. BIA Access Management	
	7. Arizona Access Management	VI-7
	8. New Mexico Access Management	VI-7
	9. Utah Access Management	VI-8
	10. Access Management Strategies	VI-8
	11. Signing Program	VI-9
	12. Striping Program	VI-10
E.	Transit	VI-10
F.	Master Planning	
G.	DOT Coordination	
H.	Title VI and Environmental Justice Implications	VI-12
l.	Overall Study Recommendations and Implications	VI-13
J.	Year 2009-2048 Navajo Nation Long Range Construction Priority Schedule	VI-17
CHA	APTER VII -GROWTH CENTER MOBILITY	VII-1
Α.	Population Projection	
В.	Development Trends	
C.	Transportation Issues	
D.	Planning Methodology	
E.	Growth Center Mobility Improvements	
CH	APTER VIII -NAVAJO NATION AIRPORT NEEDS	\/III_1
	GOALS AND OBJECTIVES	
А. В.	EXISTING AIRPORTS AND INVENTORY	
Б. С.	PLANNING CONSIDERATIONS	
D.	LONG RANGE DEVELOPMENT GOALS AND PLANS	
υ.	LONG TANGE DEVELOT WENT GOALD AND I LANG	VIII C
CHA	APTER IX -NAVAJO BRIDGE IMPROVEMENT NEEDS	
A.	BACKGROUND	
B.	FUNDING	
C.	BRIDGE IMPROVEMENT NEEDS	IX-1
CHA	APTER X -NAVAJO-BIA ROADS MAINTENANCE	X-1
A.	BACKGROUND	
B.	BIA NAVAJO ROAD MAINTENANCE PROGRAM	X-1
C.	FUNDING	X-1
D.	NAVAJO ROAD MAINTENANCE NEEDS	
E.	MAINTENANCE FUNDING NEEDS AND ESTIMATE	X-5
F.	COOPERATIVE AGREEMENTS	
G.	NAVAJO DIVISION OF TRANSPORTATION PROGRAM	X-7
CHA	APTER XI -STATE HIGHWAY NEEDS	XI-1
A.	STATE ROAD MILEAGE	
	1. Class 1 Roads:	
	Class 2 Roads in Arizona:	
	Class 2 Roads in New Mexico:	
	4. Class 2 Roads in Utah:	
B.	STATE ROAD IMPROVEMENT NEEDS	
C.	Arizona State Highways	

	1.	I-40 <sup>·</sup>	XI-2
	2.	US 89:	
	3.	US 89A:	XI-4
	4.	US 160:	XI-4
	5.	US 163:	XI-5
	6.	US 191:	XI-5
	7.	AZ 61:	XI-6
	8.	AZ 64:	XI-7
	9.	AZ 77:	XI-7
	10.	AZ 87:	XI-7
	11.	AZ 98:	XI-8
	12.	AZ 99:	XI-8
	13.	AZ 264:	XI-8
		AZ 564:	
D.		Mexico State Highways	
		I-40:	
		US 64:	
		US 491:	
		US 550:	
	5.	NM 57:	
	6.	NM 118:	
	7.	NM 122:	
	8.	NM 134:	
	9.	NM 169:	
		NM 197:	
		NM 264:	
		NM 371:	
		NM 400:	
		NM 509:	
		NM 566:	
		NM 597:	
E.		NM 602:	
⊏.		ı State HighwaysUT 162:	
		UT 163:	
		UT 262:	
	٥.	U1 202	AI-19
CHAR	TEE	R XII -COUNTY ROAD NEEDS	VII₋1
		JNTY ROAD MILEAGE	
A. B.		JNTY ROAD IMPROVEMENT NEEDS	
D.	COL	JNTT ROAD IMPROVEMENT NEEDS	
СНАВ	TEE	R XIII - TRIBAL ROAD NEEDS	YIII₋1
A.		BAL ROAD MILEAGE	
л. В.		BAL ROAD IMPROVEMENT NEEDS	
<i>ن</i> .	IIXIL	DAE NOAD IIVII NOVEIVIENT NEEDO	AIII-3
Anne	ndiy	A – Returned Survey Questionnaires	
		B – Access Management Samples	
Appei	ndix	C – Transportation Needs by Route	

#### List of Tables Table I-1. Summary of FY 2008 IRR Funding......I-5 Table I-2. Federal Lands Highway Program – Funding Authorizations Table, FYs 2005-2009 Table I-3. Nationwide IRR Inventory Total Mileage......I-7 Table II-1. Land Area and Population by Agency.....II-2 Table II-2. Population Projection by Agency ......II-4 Table II-4. Navajo Nation's Employment by Industry .......II-5 Table III-1. Overall Navajo Nation IRR System (in miles) ...... III-3 Table III-2. Navajo-BIA Roads by Functional Classification (in miles) ...... III-4 Table III-3. Navajo-BIA Roads by Surface Type (in miles)...... III-8 Table III-4. Tribal Roads (in miles) ...... III-9 Table III-5. State Roads (in miles).....III-10 Table III-6. County Roads (in miles)......III-11 Table III-7. Other BIA Programs Roads (in miles)......III-12 Table III-8. Other Federal Agency Roads (in miles)......III-13 Table V-1. Geometric Design Standards.....V-4 Table V-2. Miles of Navajo-BIA Roads with Geometric Deficiencies/Total NEED 1......V-5 Table V-3a. Navajo-BIA Roads' Surface Type By Class......V-6 Table V-3. Unpaved Navajo-BIA Class 2 Road Segments with 20-Year ADT > 250 Meeting 81 IAM Requirements to Be Paved ......V-10 Table V-4. Proposed Navajo-BIA Class 2 Roads......V-10 Table V-5. Total Class 2 Road Needs......V-10 Table V-6. Pavement Rating Standards......V-11 Table V-8. Crash Rating System......V-14 Table V-9. Road Sections with High Crash Rates......V-15 Table V-10. Road Intersections with High Number of Crashes.......V-15 Table V-12 Major Fatal Crashes......V-20 Table V-14. Total Safety Needs ......V-23 Table V-15. BIA Class 4 Roads Providing Access to Chapter Houses.......V-25 Table V-16. Growth Centers' Existing Streets, Lighting, and Signalization.......V-27 Table V-17. Growth Centers' Proposed Improvements and Needs on Navajo-BIA Roads .......V-28 Table V-18. Growth Centers' Proposed Improvements and Needs on State Highways.......V-28 Table V-19. Health Care Visits .......V-30 Table V-23. Proposed Housing and Related Transportation Needs by Chapters .......V-31 Table V-28. 2009 Capital Improvement Program......V-40 Table V-30. Park Access Needs with Project Priority......V-47 Table V-33. Airport Road Construction Needs.......V-50 Table V-34. Navajo Transit Recommendations......V-51



## 2009 Navajo Nation Long Range Transportation Plan

Table V-36. Total Mulitmodal Transportation Needs	
Table V-37 Transportation Needs to Meet I-40 Emergency Detour Use	V-56
Table V-38 Total Other Transportation Needs	V-56
Table V-39. Total Transportation Needs/Findings	V-64
Table VI-1 Navajo-BIA Roads' Long Range Road Improvement Needs in Miles	VI-2
Table VI-2 Navajo-BIA Road Improvement Cost (in \$millions)	VI-3
Table VI-3 Long Range Transportation Planning Priority	VI-5
Table VI-4 2007 Racial Demographics	
Table VI-5 2007 Socioeconomic Demographics	
Table VI-6 Overall Long Range Transportation Improvement Needs and Impacts	VI-14
Table VII-1. Growth Center Population Projections for Years 2000-2030	VII-1
Table VIII-1. Existing Navajo Nation Primary Airport Inventory	VIII-4
Table VIII-2. Existing Navajo Nation Secondary Airport Inventory	VIII-6
Table VIII-3. Existing Airports within the geographic area not owned or operated by Navajo	
Nation	
Table VIII-4. Navajo Nation Airport Based Aircraft and Annual Operation Forecast	
Table VIII-5. Proposed 20-Year Improvement Plan for Primary Airports	
Table VIII-6. Proposed 20-Year Improvement Plan for Secondary Airports	
Table VIII-7. Total Estimated 20-Year Airport Improvement Costs	
Table IX-1. Navajo Bridges Needing Replacement	
Table IX-2. Navajo Bridges Needing Rehabilitation	
Table IX-3. Total Funding Needs for Navajo Bridge Improvements	
Table X-1. Level of Service	
Table X-2. BIA and County Road Maintenance Data	
Table X-3. Navajo Region Road Deferred Maintenance Program FY 2008	
Table X-4. Mileage of Roads Maintained Under Interagency Agreements	
Table XI-1. State Roads (in miles)	
Table XII-1. County Roads by Surface Type (in miles)	
Table XII-2. Miles of County Roads with Geometric Design Deficiencies/Total 1,620.4 miles	
Table XII-3. Cost to improve County Roads with Geometric Design Deficiencies	XII-3
Table XIII-1. Tribal Roads by Surface Type (in miles)	XIII-2

## 2009 Navajo Nation Long Range Transportation Plan

## List of Figures

Figure I-1. IRR Funding	l-8
Figure I-2. Navajo Nation LRTP Planning Process	I-10
Figure II-1. Navajo Nation Land Base	II-2
Figure II-2. Navajo Nation Land Use	II-6
Figure III-1. Navajo Nation IRR System	III-1
Figure III-2. Navajo-BIA Roads	III-3
Figure III-3. Navajo-BIA Roads by Functional Classification	-4
Figure III-4. Navajo-BIA Roads by Surface Type	III-8
Figure III-5. Tribal Roads	-9
Figure III-6. State Roads	
Figure III-7. County Roads	
Figure III-8. Other BIA Program Roads	III-12
Figure III-9. Other Federal Agency Roads	III-13
Figure IV-1. Navajo-BIA Roads Traffic Volume	IV-1
Figure IV-2: Transportation Modal Split	
Figure V-1 2009 Long Range Transportation Plan Questionnaire Summary	
Figure V-2. Planning / Needs Assessment Process	V-3
Figure V-3. 1999-2007 Crashes by Road Ownership	
Figure V-4. 1999-2007 Crashes by Agency	
Figure V-5. 1999-2007 Crashes by Cause	V-13
Figure V-6. 1999-2007 Crashes by Location	V-14
Figure V-7. 1999-2007 Fatal Crashes	
Figure X-1 2008 Allocations	
Figure X-2 2007 Allocations	
Figure XII-1. County Road Mileage by County	
Figure XII-2. County Road Mileage by Surface Type	
Figure XII-3. County Road Mileage by Class	
Figure XII-4. 1999-2007 County Road Crashes by Cause	XII-4

## 2009 Navajo Nation Long Range Transportation Plan

List of Maps	
Map I-1. Navajo Nation Transportation Plan Area	I-2
Map III 1. Navajo IRR Road System	
Map III 2. Navajo-BIA Roads by Functional Classification	111-5
Map III 3. Navajo-BIA Roads by Surface Type	111-7
Map V-1. Navajo-BIA System: Class 2 and 4 Roads	V-7
Map V-2. Navajo-BIA System: Paved Class 2 and 4 Roads	
Map V-3. Navajo-BIA System: Unpaved Class 2 and 4 Roads with Existing ADT > 250	
Map V-4. Safety Corridors	
Map V-5. Crashes at Intersections	V-17
Map V-6. Animal Involved Crashes	V-19
Map V-7. Fatal Crash Locations	V-22
Map V-8. Crashes Involving Road Defect	V-24
Map V-9. Chapter House Access Needs	V-26
Map V-10. Health Facilities	V-29
Map V-11. Proposed Schools and Headstart Programs	V-33
Map V-12. Economic Development Projects	
Map V-13. Navajo Nation Energy Development Plan	V-39
Map V-14. 2009 Capital Improvement Program	V-44
Map V-15. Navajo Nation Scenic Byways	V-46
Map V-16. Navajo Nation Proposed Parks and Recreation Projects Table V-31. Chapters'	
Planned Park and Recreation Projects	V-48
Map V-17. I-40 Closure Plan	
Map V-18. Navajo Nation Aggregate Resources	V-60
Map V-19. Navajo Nation Water Resources - Well Locations	V-63
Map VII-1. Tuba City Mobility Improvements	VII-5
Map VII-2. Shiprock Mobility Improvements	VII-9
Map VII-3. Chinle Mobility Improvements	VII-11
Map VII-4. Kayenta Mobility Improvements	VII-13
Map VII-5. Fort Defiance Mobility Improvements	VII-15
Map VII-6. Window Rock/St. Michaels Mobility Improvements	VII-17
Map VII-7. Crownpoint Mobility Improvements	
Map VIII-1. Existing Navajo Nation Airports	VIII-2
Map VIII-2. Proposed Primary and Secondary Airports	VIII-12
Map IX-1 Bridge Replacement and Rehabilitation Needs	IX-4

#### **ACRONYMS**

2009 LRTP 2009 Long Range Transportation Plan

AASHTO American Association of State Highway Officials

ADOT Arizona Department of Transportation

ADT Average Daily Traffic
ARC Agency Roads Committee
BIA Bureau of Indian Affairs

BIA-NRODOT Bureau of Indian Affairs - Navajo Regional Office - Division of Transportation

BLKM Black Mesa and Lake Powell Railroad

BLM Bureau of Land Management

BNSF Burlington Northern Santa Fe Railroad

CE Construction Engineering
CFR Code of Federal Regulations

CHR Community Health Representative

CTC Cost to Construct

DOE United States Department of Energy

DOI Department of the Interior

EPA United States Environmental Protection Agency

FAA Federal Aviation Administration
FHWA Federal Highway Administration
FLIP Federal Lands Highway Program
FTA Federal Transit Administration

HTF Highway Trust Fund

HUD Housing and Urban Development

IRA Indian Reorganization Act
IRR Indian Reservation Roads

IRRCC Indian Reservation Roads Coordination Committee

ITEA Indian Tribal Economic Alliance

LGA Local Governance Act

LRTP Long Range Transportation Plan

MMS Maintenance Management System

MOA Memorandum of Agreement
MOU Memorandum of Understanding

MW Megawatts

NAIHS Navajo Area Indian Health Service
Navajo DOT Navajo Division of Transportation

NHA Navajo Housing Authority

NIIP Navajo Irrigation Industry Project

## **ACRONYMS**

NMSHTD New Mexico State Highway and Transportation Department

NPS United States National Park Service
NRRI Navajo Region Road Inventory
NTP Navajo Transmission Project

NTS Navajo Transit Service
PE Preliminary Engineering

PMS Pavement Management System
RIFDS Road Inventory Field Data Module
RNDF Relative Needs Distribution Formula

ROW Right-Of-Way

SAFETEA-LU Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users

TCDC Transportation and Community Development Committee

TEA-21 Transportation Equity Act for the 21st Century

TIP Transportation Improvement Program

TTAM Tribal Transportation Allocation Methodology
TTIP Tribal Transportation Improvement Program

UDOT Utah Department of Transportation
USFS United States Forestry Service

VMT Vehicle Miles Traveled

VPD Vehicles Per Day

# 2009 Nation Long Range Transportation Plan EXECUTIVE SUMMARY

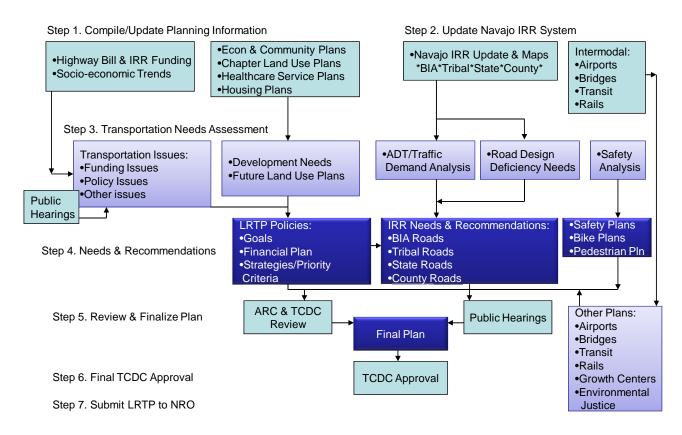
## A. Background

The 2009 Navajo Nation Long Range Transportation Plan is a twenty-year comprehensive plan developed and updated by the Navajo Division of Transportation (Navajo DOT) in a five-year cycle. The 2009 LRTP identifies the Nation's multi-modal transportation needs over the next 20 years and develops strategies to meet them. The plan provides long range planning policies and implementation strategies for the Navajo Indian Reservation Roads (IRR) Program improvements. It is based on a comprehensive analysis of all pertinent factors and issues affecting the Navajo Nation's existing and future transportation needs.

The 2009 LRTP follows the planning process (Figure 0-1) which includes examination of tribal and IRR program policies and transportation issues; socioeconomic data and development plans; all modes of transportation data (roads, bridges, airports, transit and rails (including road inventory data for future traffic volume and transportation improvement needs according to highway design guidelines and pavement management requirements); and crash data analysis for safety needs. The review process includes public involvement at public hearings and final approval by the tribal transportation committees.

Figure 0-1. Navajo Nation LRTP Planning Process

# LONG RANGE TRANSPORTATION PLAN PLANNING PROCESS



**Public Involvement Process:** The Long Range Transportation Plan update included a Technical Advisory Committee made up of representatives from throughout Navajo Nation. The project team held four (4) public meetings, located in Chinle, Tuba City, Window Rock and Shiprock. Additionally, a survey was conducted to understand if any outlying concerns were not being addressed. Figure 0-2 is a summary of the 143 survey responses.

Figure 0-2. Navajo Nation LRTP Survey Summary

	(considerable particular and	(CIIOII)						
2)	What are your priori	2) What are your priorities from high (8) to low (1)	Jw (1)	Control of the Contro			Automation and a state of	
	oben meneral meneral	Dond Maintanana	Safety	Bridge	Transit	Bicycle Paths and	Airport	5
Average Score	Road IIIIproverneurs 6.5	Road Improvements Road Maintenance	5.2 miprovenienis	5.3	3.8	Sidewalks 3.6	2.7	= = = = = = = = = = = = = = = = = = =
	-	2	က	4	5	9	1	ω
3)	Road Improvement:	3) Road Improvement: What are your priorities from high (5) to low (1)	ties from high (5) to k	ow (1)				
	oravel roads	drave more unit of 10 improve existing	improve drainage	replace bridges	Offher			
Average Score	4 1	3.8	3.7	3.0	J.1			
Rank		2	က	4	5			
4	Road Maintenance:	4) Road Maintenance: What are vour priorities from high (6) to low (1)?	ies from high (6) to lo	yw (1)?				
			Maintenance during					
	Pothole repair	Blading of dirt roads	emergencies	oval	Bridge maintenance	Other		
Average Score:	4.6	4.5	3.8	3.7	3.4			
Rank	_	2	က	4	2	9		
(9	Safety Improvement	5) Safety Improvement: What are your priorities from high (8) to low (1)	ities from high (8) to	low (1)		Inctall cidowalls and		
	Roadway striping	Roadway signage	Install traffic signals	Install quard rails		bicycle paths	Install cross walks	Other
Average Score:	4.9	4.8	4.8 4.6 4.4	4.4	4.4		4.0	1.5
Rank	-	2	3	2		7	7	00
(9	What should be the	6) What should be the transportation/road improvement goals from high (6) to low (1)?	nprovement goals fro	om high (6) to low (1	Con			
		Support economic	9	Connection to transit,	freight			
Ó	mprove	development	Access to recreation airports, etc	airports, etc	access/movement	Other		
Average Score. Rank:	1.0	2.3	3.5	5. <del>4</del>	3.U 5	7.7 6		
[7	What are you major	7) What are you major development (economic, transportation) concerns from high (5) to low (1)? Increase nollution of	mic, transportation) co	oncerns from high (	(5) to low (1)?			
		Cultural Preservation	all types (noise, air)	Privacy	Others			
Average Score:	3.9	3.2 3.0	3.0	2.7	1.0			
Rank:	_	2	3	4	5			





2009 LONG RANGE TRANSPORTATION PLAN QUESTIONNAIRE SUMMARY





**Navajo IRR Mileage:** The overall Navajo IRR system consists of 12,631.5 miles of public roads (2008 Navajo Region Road Inventory – Figure 0-3): Navajo-BIA roads (6,147.9 miles); tribal roads (2,895.7 miles); state roads (1,595.5 miles); county roads (1,907.5 miles); other BIA programs' roads (46.9 miles); other federal agency roads (37.2 miles), and others roads (0.8 miles).

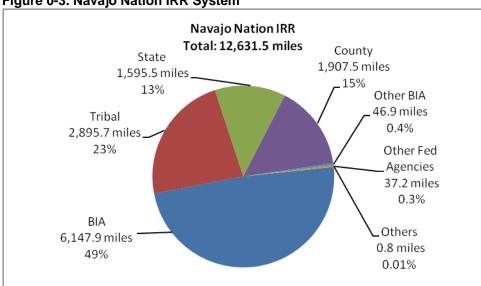


Figure 0-3. Navajo Nation IRR System

Source: 2008 Navajo Region Road Inventory

## B. Transportation Needs Assessment

Available data including the 2008 road inventory, 1999-2007 crash data, chapter land use plans and planned development projected were used to identify overall transportation needs in relation to tribal and IRR planning and highway design guidelines to meet transportation needs in the following areas:

Highway Geometric Design Deficiencies Network Connectivity Needs

Pavement Deficiencies

Safetv

Chapter House Access Needs

**Growth Centers Mobility Needs** 

Community and Economic Development Transportation Needs

Scenic Byways, Tourism and Recreation

Multimodal Transportation Needs

Other Transportation Needs

**Cultural Environmental Considerations** 

## C. Navajo-BIA Road Transportation Needs

Of the total 6,147.9 miles Navajo-BIA Roads, 5,995.4 miles needs improvements such as surface upgrade and/or widening. 1,313.8 miles of paved roads need pavement reconstruction and rehabilitation. When these roads have been improved, the transportation needs mentioned above (B) will be addressed. Table VI-1 below shows the recommended road improvement needs of the Navajo-BIA Roads by class.

Table 0-1 Navajo-BIA Roads' Long Range Road Improvement Needs in Miles

ADS	CLASS	FADT	Miles of Roads Needing Only Surface Imp	Miles of Roads Needing Only Roadway Widening	Miles of Roads Needing Surface Imp & Roadway Widening	Sub-Total	2003 LRTP Total By Class	2009 LRTP Total By Class
1		N/A	0.9	0.1	0.3	1.3		
2	1-Major Arterial	N/A	2.0	0.8	0.0	2.8	0.0	4.1
3		N/A	0.0	0.0	0.0	0.0		
4			5.9	13.8	54.0	73.7		
5		>=400	8.7	184.0	397.1	589.8		
6	2-Rural Minor		5.3	11.5	2.7	19.5	917.7	754.6
7	Arterial		0.0	0.0	0.0	0.0	917.7	754.0
8		<400	0.0	24.3	23.0	47.3		
9			0.0	0.0	24.3	24.3	<u> </u>	
10		>250	17.5	15.0	138.2	170.7		
10		50-250	1.8	5.2	365.8	372.8		
11	4-Rural	>250	38.6	136.9	988.7	1164.2		
11	Major	50-250	33.7	82.0	1668.6	1784.3	4468.1	3757.0
11	Collector	<50	0.0	1.1	0.0	1.1		
12		>250	1.9	0.0	76.6	78.5		
12		50-250	0.0	0.0	185.4	185.4		
13		>400	0.1	5.5	43.1	48.7		
13		50-400	125.3	6.6	18.1	150.0		
14	5-Rural	>400	2.9	28.5	72.0	103.4	0	1402.1
14	Local	50-400	68.5	14.7	806.2	889.4		1702.1
15		>400	0.0	0.0	8.4	8.4		
15		50-400	0.0	0.0	202.2	202.2		
16	6-City Min Arterial	N/A	0.0	0.9	2.6	3.5	0.0	3.5
17	7-City Collector	N/A	0.0	0.0	0.0	0.0	0.0	0.0
18	3-City Local	N/A	8.8	23.5	1.8	34.1	61.5	34.1
	-					Grand Total:	5447.3	5955.4

To improve 5,955.4 miles of the Navajo-BIA road system to meet the design standards will cost \$6.5 billion (Table VI-2). To address pavement deficiencies of 1,341.4 miles of paved Navajo-BIA roads alone (Chapter 5 Need 3) will cost \$1.4 billion. However, when roads are upgraded to meet the design standards, pavement conditions will also be addressed. To address the overall Navajo-BIA road system deficiencies, the Navajo Nation will need approximately \$7.0 billion. This figure is seven times the current 20-year funding level of the Navajo IRR Program, which has been about \$1 billion or \$50 million per year. Table VI-1 summarizes and compares improvement costs between 2009 to 2003 improvement needs of the Navajo-BIA roads. The drastic increase from 2003 cost is partly due to the nearly double in construction cost in recent years caused by fuel cost increase.





Table 0-2 Navajo-BIA Road Improvement Cost (in \$millions)

	<u> </u>	<u> </u>	toda impre	TOINGING GO	st (III WIIIIIIOII	<u> </u>	,	
ADS	CLASS	FADT	Miles of Roads Needing Only Surface Imp	Miles of Roads Needing Only Roadway Widening	Miles of Roads Needing Surface Imp & Roadway Widening	Sub-Total	2003 LRTP Total By Class	2009 LRTP Total By Class
1		N/A	\$1,621.18	\$97.55	\$287.98	\$2,006.71		
2	1-Major	N/A	\$3,602.63	\$1,017.41	\$0.00	\$4,620.04		
3	Arterial	N/A	\$0.00	\$0.00	\$0.00	\$0.00	\$0	\$6,626.75
4			\$3,962.52	\$6,578.34	\$46,971.29	\$57,512.16		
5			\$17,184.79	\$143,682.36	\$613,970.89	\$774,838.04		
6		>=400	\$7,080.76	\$3,064.10	\$3,367.38	\$13,512.23		
7			\$0.00	\$0.00	\$0.00	\$0.00		
8	2-Rural Minor		\$0.00	\$17,256.06	\$18,497.88	\$35,753.95		
9	Arterial	<400	\$0.00	\$0.00	\$28,738.92	\$28,738.92	\$705,236.00	\$910,355.29
10		>250	\$20,997.81	\$17,213.29	\$153,547.83	\$191,758.94		
10		50-250	\$1,655.74	\$3,156.54	\$336,300.83	\$341,113.11		
11		>250	\$17,436.49	\$108,964.78	\$1,169,256.91	\$1,295,658.18		
11		50-250	\$26,248.70	\$71,139.17	\$2,036,678.17	\$2,134,066.04		
11		<50	\$0.00	\$236.23	\$0.00	\$236.23		
12	4-Rural Major	>250	\$650.75	\$0.00	\$61,130.04	\$61,780.79		
12	Collector	50-250	\$0.00	\$0.00	\$125,286.15	\$125,286.15	\$3,481,606.00	\$4,149,899.44
13		>400	\$90.84	\$3,879.43	\$31,595.85	\$35,566.11		
13		50-400	\$66,262.56	\$1,552.15	\$10,592.06	\$78,406.76		
14		>400	\$6,021.29	\$19,050.97	\$82,582.36	\$107,654.62		
14		50-400	\$70,716.81	\$6,796.71	\$933,346.86	\$1,010,860.37		
15	5-Rural	>400	\$0.00	\$0.00	\$9,184.22	\$9,184.22		
15	Local	50-400	\$0.00	\$0.00	\$154,644.98	\$154,644.98	\$ O	\$1,396,317.06
16	6-City Minor Art	N/A	\$0.00	\$423.78	\$1,534.00	\$1,957.78	\$ O	\$1,957.78
17	7-City Collector	N/A	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0
18	3-City Local	N/A	\$13,675.30	\$12,962.03	\$1,062.00	\$27,699.33	\$31,535.00	\$27,699.33
						Grand Total:	\$4,218,377.00	\$6,492,855.65

**Implementation Strategies:** To address the Navajo Nation's long range transportation needs, transportation decision-makers need to set and follow the long and short range road improvement goals and objectives, funding strategies and priorities.

#### **Long Range Goals and Objectives**

To upgrade roads to meet design standards and management system requirements to correct deficiencies as well as to improve overall network connectivity, travel mobility and accessibility.

- To improve travel safety and reduce accidents on the Navajo-BIA roads.
- To meet existing and future transportation needs in order to promote community and economic vitality.

#### **Funding Strategies**

Seek to increase the Navajo IRR funding level through lobbying. Under the Federal Lands Highway Program (FLHP), IRR Program funding needs are factored by population and development growth (through ADT) unlike other FLHP programs, (e.g., Park roads and Parkways, Public Lands Highway Discretionary, Forest Highway and Refuge Roads). These other FLHP roads do not carry the high levels of daily traffic that wear out roads at greater rate: their road miles and traffic volumes are relatively constant. Legislative formula should be established to allocate funds among FLHP programs based on actual needs, instead of each program's relative share.



- Seek funding from the IRR Nationwide Bridge Priority Program to help meet the Navajo IRR bridge improvement needs.
- Seek other funding sources such as the Indian Highway Safety Program (\$1.1 million annually), federal Hazard Elimination Program (\$550 million annually), which funds safety improvements on highways administered by the State and the BIA.
- Seek other funding sources such as Public Land Highway Discretionary Funds for Navajo scenic byways projects and/or State Transportation Enhancement Fund for bicycle and pedestrian paths.
- Seek state/federal share of funding for improvement of Navajo-BIA routes to be used as detours during I-40 emergency closures.
- Use the Navajo Nation Fuel Excise Tax to supplement the IRR funds.
- Fund projects according to project/need priority.
- Taxing: Currently, Kayenta is the only primary growth center with a self imposed sales tax of 2.5 percent. It is recommended that the primary and secondary growth center communities work with the Division of Economic Development to identify and implement self funding mechanisms to aid in enhancing infrastructure investment, ultimately improving economic development opportunities for those that wish to invest within Navajo Nation.

#### **Project Prioritization Criteria**

When funding is insufficient, project prioritization is a crucial implementation strategy to help meet long range mobility goals. The Long Range Transportation Plan recommends projects that address the long range transportation needs as described in Table 0-4 be given ratings from high to low priority accordingly.

**Table 0-3 Long Range Transportation Planning Priority** 

Points assigned	Project Type	
5-High Priority Projects	Immediate, core transportation needs and issues raised by local chapters,	
	tribal programs, school, healthcare providers, housing programs, intermodal	
	needs as well as BIA engineers.	
	School bus routes	
	NHA housing streets and access roads	
	Class 1 & 2 road improvement needs	
	Class 3 & 6 roads-pavement deficiencies	
	Safety improvements, sidewalks	
	Class 1,2 & 4 roads-pavement deficiencies	
	Economic and community development access needs	
	Bridge projects	
3-Moderate Priority Projects	Transportation needs and issues that are recommended for action after the	
	high priority needs have been met and if funds are available.	
	Growth center proposed streets	
	Class 4 & 5 roads-improvement upgrade	
	Scenic byways and park access	
1-Low Priority Projects	Important transportation issues and needs to be implemented last. If IRR	
• •	funds are limited, should be funded from outside resources.	
	Bicycle routes	
	Other transportation needs	
0	Not a 20-year need nor listed on the LRTP	

#### D. Plan Recommendations

To improve travel safety on the Navajo IRR, the Navajo Nation needs to review or consider developing policies and programs in the following areas:

- Safety Improvement Program An annual Safety Improvement Program should be established to develop a systematic approach for crash mitigation based on reported crash data. The crash data, coupled with the IRR Roadway Inventory database will provide the data necessary to understand the high crash location areas throughout the Navajo Nation transportation system.
- Open Range Policy The Open Range Policy adopted by the Navajo Nation and State of Arizona needs to be re-evaluated to improve safety to prevent animals on roadways and reduce animal related crashes on the Navajo Nation.
- Venders in the ROW Statistics show there are crashes related to vendors within highway ROW
  selling crafts, foods, etc. As a government, the Navajo decision makers need to partner with the
  States to jointly establish policy, legislation and enforcement guidelines to make the road safer
  while still providing a means for local artists and supporting the needed tourism.



- Access Management A successful Access Management strategy for Navajo Nation should be developed to fully protect the transportation infrastructure investments made on the system.
- **Signing Program** An annual signing program should be established to enhance on-road and roadside safety. The annual signing program would include all signs to regulate, warn or guide motorists and should include new signs as well as signs that need to be replaced due to damage or wear/reflectivity.
- Striping Program An annual striping program should be established to enhance on-road and
  roadside safety. The striping program would first focus on the highest traveled roadways to
  ensure that roadway stripes can be seen to help drivers navigate in daytime, nighttime and
  adverse weather conditions.
- **Transit** The demand for Navajo Transit Service (NTS) exceeds the capacity and some market areas are not served. Some growth centers do not have localized service and it is highly recommended that a 20-year Transit Plan be developed to identify:
  - Expanded Service Needs
  - Local Service Needs
  - Regional Service Needs
  - Park-n-Ride Locations
- Master Planning Each Primary and Secondary Growth Center should develop a Community Plan that develops a 20-year plan that examines future land use, multi-modal transportation needs, infrastructure needs, environmental considerations and unique characteristics to the community.
- DOT Coordination Common reoccurring coordination between the Navajo Division of
  Transportation and the state DOTs should occur, either in the form of semi-annual or quarterly
  meetings to ensure that the needs of the various Divisions within Navajo Nation and the state
  DOTs have a common understanding of needs, priorities and processes. Additionally, crash data
  coordination and data standardization between Navajo DOT and the State DOTs should occur so
  safety and highway related data could be shared.

## E. Bridge Improvements

There are 178 bridges on the Navajo-BIA roads. Of these 58 bridges were identified for deficiencies, including 33 bridges needing replacement (\$15.5M) and 25 bridges needing rehabilitation (\$4.4M). The anticipated total funding needs for bridge design and improvements is \$23.8M.

## F. Airports

To increase aviation service coverage and maximize FAA funding, develop all eight primary airports and construct a new primary airport in Ramah Chapter to expand service coverage to this satellite Navajo community. To upgrade all primary airports to meet Airplane Design Group II, Approach Category B standards and increase capacity to meet future operation forecasts.

#### G. Maintenance

According to the BIA-NRODOT the \$5.9 million FY 2008 road maintenance fund was allocated to all agencies. While in FY 2007 \$6.5 million was spent on routine maintenance, bridge maintenance, snow and ice control, emergency maintenance, and program management. The shortfall in maintenance is an issue that will degrade the roadways at a quicker pace.

## H. State Highways

State roads are an important part of the Navajo IRR system. They are the main arterials connecting Navajo Nation population centers to the Four Corners Area's regional road networks, off-reservation towns and major airports. They are part of the interstate, national (U.S.) and state highway systems. Most state routes on the Navajo Reservation are rural two-lane highways except in urbanized areas where they are four-lane with high traffic volume. Table XI-1 summarizes the state road mileage.



Table 0-4. State Roads (in miles)

Agency	Arizona State Highways	New Mexico State Highways	Utah State Highways	Agency Total
New Lands	89.3	0.0	0.0	89.3
Northern	70.2	113.8	41.7	225.7
Western	503.5		25.9	529.4
Eastern	0.0	413.2	0.0	413.2
Chinle	60.8	0.0	0.0	60.8
Ft. Defiance	213.3	48.6	0.0	261.9
NIIP	0.0	15.2	0.0	15.2
State Total	937.1	590.8	67.6	1,595.5

Source: 2008 Navajo Region Road Inventory

Arizona, New Mexico and Utah State Departments of Transportation have classified these state roads according to their own functional classification systems. However, under the IRR regulations, these state highways meet the IRR functional classification for: Class 1, Major Arterial Roads, providing an integrated network between large population centers and having average daily traffic of 10,000 vehicles per day with more than two lanes of traffic; and Class 2, Rural Minor Arterial Roads, providing an integrated network between large population centers and having average daily traffic less than 10,000 vehicles per day, may link smaller towns and communities to major resort areas and generally provide for at least in-county or inter-state service and are spaced at intervals consistent with population density.

**Arizona State Road Needs:** Of the total 937.1 miles of Arizona State Highways on the Navajo Nation, the plan identifies transportation improvement needs on 69.2 miles of roadway within 5 years, and an additional 98.4 miles of improvements within 10 years.

**New Mexico State Road Needs:** Of the total 590.8 miles of New Mexico State Highways on the Navajo Nation, the plan identifies transportation improvement needs on 117.3 miles of highway within 5 years, and 49.1 miles of additional highway improvements within 10 years.

**Utah State Road Needs:** Of the total 67.6 miles of Utah State Highways on the Navajo Nation, the plan identifies transportation improvement needs on 9.3 miles of highway within 5 years and 40 miles of highway within 10 years.

## I. County Road Transportation Needs

There are a total 1,907.5 miles of County roads within Navajo Nation and 1,620.4 miles of County roads need surface improvement and roadway widening to safety meet the geometric design guidelines/IRR adequate standards. The total cost to bring County Roads to the Geometric Design Standards is \$1.4 billion.

## J. Tribal Road Transportation Needs

There are a total 2,895.7 miles of Tribal Roads within Navajo Nation, and 2,831.0 miles need improvements. Additionally, 53.3 miles of Class 3 Tribal Roads need improvements based on the BIA pavement rating standards. This equates to approximately \$2.9M in tribal road related needs.



#### CHAPTER I - INTRODUCTION

#### A. PLAN INTRODUCTION

The 2009 Navajo Nation Long Range Transportation Plan (2009 LRTP) is a twenty-year comprehensive plan developed and updated by the Navajo Division of Transportation (Navajo DOT) in a five-year cycle. The study area includes the boundary limits of the Navajo Reservation and tribal ranch areas as situated within the States of Arizona, New Mexico, and Utah. Map 1-1 depicts the Transportation Plan study area.

The 2009 LRTP identifies the Nation's multi-modal transportation needs over the next 20 years and develops an implementation plan for improvements. The plan provides long range planning policies and implementation guidelines for Navajo Indian Reservation Roads (IRR) Program improvements. It is based on a comprehensive analysis of all pertinent factors and issues affecting the Navajo Nation's existing and future transportation needs.

The LRTP is an important component in obtaining Federal funding for roadway improvements through the IRR Program. The Navajo IRR Program is administered jointly by the Bureau of Indian Affairs – Division of Transportation and the Federal Lands Highways Program (FLHP) of the Federal Highway Administration. The BIA Navajo Regional Office – Division of Transportation (BIA-NRODOT) administers Navajo Region of the IRR Program construction and maintenance. To qualify for the funding, each Indian Reservation must establish an approved long range transportation plan and Tribal Transportation Improvement Program (TTIP) which is a 3- to 5-year road and bridge construction priority schedule. The Navajo Nation will use this 2009 LRTP to satisfy the long range transportation plan requirement, and will utilize the findings and recommendations of the LRTP to define a 3-5 year road and bridge construction of the Navajo Nation Transportation Improvement Program (TIP).

The purpose of this plan, as required by federal agency regulations, is to identify transportation improvement needs for funding of those Navajo Nation long range transportation improvements. This LRTP is also intended to be a transportation planning tool for the Transportation and Community Development Committee (TCDC) of the Navajo Nation Council and the Agency Roads Committees (ARC). It further provides recommendations for long range improvements for Navajo-BIA, State, and County roads, bridge, airport as well as transit improvements. The recommendations of the LRTP will provide guidance to the Navajo Nation, Navajo DOT, the State Departments of Transportation, Chapter communities within the Reservation, and private interests when considering future development plans.

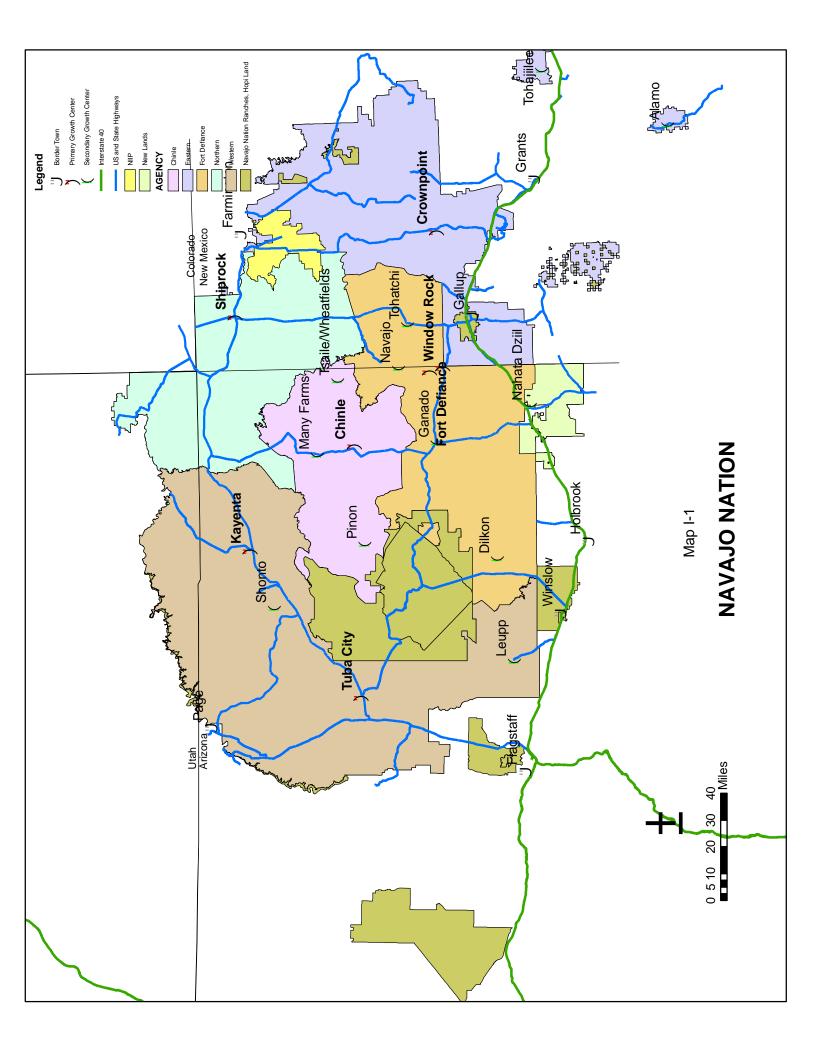
#### B. PLAN GOALS

The Navajo Nation LRTP is the Navajo Nation's vision of future transportation construction to fulfill and meet the Nation's long term transportation needs. The planning process and methodology used in this plan includes examination of tribal and IRR program goals and objectives, highway design criteria, and transportation issues to identify future needs.

#### **Transportation Goals:**

- To provide a comprehensive transportation system that encompasses all modes of transportation, including rail, bus, and air.
- To provide safe and efficient transportation network to and within the Navajo Reservation.
- To improve overall road and bridge conditions to achieve a reduction in the number and severity of traffic accidents.
- To develop the necessary multimodal transportation system to foster and support economic development and increase employment opportunities.
- To provide a high level of connectivity between Growth Centers including Shiprock, Tuba City, Chinle, Fort Defiance, Window Rock, Crownpoint, and Kayenta.





#### C. FEDERAL FUNDING OF INDIAN RESERVATION ROAD SYSTEM

The IRR program was established to provide for construction of public roads and bridges under Bureau of Indian Affairs (BIA) administration. Its funding is authorized under the Federal Lands Highway Program (FLHP) and through the Bureau of Indian Affairs-Division of Transportation. The 1948 and subsequent memorandum of agreements between the BIA and Federal Highway Administration (FHWA) established their joint responsibilities for the IRR program.

The purpose of the IRR program is to provide safe and adequate transportation facilities including public road access to and within Indian reservations, Indian trust land, or Native American communities. Indian Reservation Roads by definition include BIA, state, county, and other local government public roads.

In 1998, a funding distribution formula was developed for the IRR Program under the Transportation Equity Act for the 21<sup>st</sup> Century (TEA-21). Originally, tribal allocations were distributed according to the Relative Needs Distribution Formula (RNDF). In July 2004, a new distribution formula and updated IRR regulations, referred to as the Tribal Transportation Allocation Methodology (TTAM), as documented in the IRR Program final regulation, 25 CFR Part 170. The TTAM uses an inventory of IRR facilities as the major factor in determining the funding amounts that each Tribe receives. The updated regulation removed growth limitations in the inventory and initiated significant incentives for Tribes to add all eligible tribal, State, and county routes to the inventory with somewhat negative impacts to the larger land based tribes.

Using the TTAM allocation formula, the IRR funds are distributed to twelve (12) BIA regional offices. The IRR Program funds can be used for any type of Title 23 transportation project providing access to or located within Federal or Indian reservations, Indian trust land, restricted Indian land, and Alaska native villages, and may be used for the State Local matching share for apportioned Federal-aid Highway Funds. Title 23, United State Code provides statutory requirements for IRR and other federal funded highway programs. Congress has been appropriating funds for IRR through highway appropriations. The Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) authorized IRR funding for FY2005-2009.

As a condition for the continuance of IRR funds and in accordance with 23 USC 116, the BIA Regional Offices and Tribes are responsible for road maintenance of BIA and tribal roads respectively using Department of the Interior (DOI) funds appropriated annually under DOI Appropriation Acts, tribal funds, and up to 25% of IRR construction funds authorized under SAFETEA LU.

The current SAFETEA-LU highway authorization contains a statute that directs the Secretary of Transportation, in cooperation with the Secretary of the Interior, to complete a comprehensive national inventory review of transportation facilities eligible under the IRR Program. Each year, the inventory may be updated by tribes to reflect the transportation needs, which are ranked against the relative needs of other tribes.

#### D. SAFETEA-LU REVIEW

P.L. 109-50, Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), was signed into law by President George W. Bush on August 10, 2005, increasing IRR funding to nearly \$2 billion for FY2005-2009. However, it makes some changes to the FLHP, which substantially affects the IRR program and its funding level, as described below.

#### **IRR Program Activities**

IRR funding for a highway, road, bridge, parkway, or transit facility project or activities on an Indian reservation may be carried out, in accordance with the Indian Self-Determination and Education Assistance Act, to a requesting Indian tribal government or consortium (two or more tribes) that has



satisfactorily demonstrated financial stability and financial management to the Secretary. Funding provided is to include any amount that would have been withheld for IRR Program administrative costs.

#### **National Tribal Transportation Facility Inventory**

In order to identify the tribal transportation system and determine relative transportation needs among the tribes, the Secretary is required to complete a comprehensive national inventory of transportation facilities that are eligible for assistance under the IRR program within 2 years of enactment with a report to Congress due within 90 days after the inventory is completed.

#### **Nationwide Priority Program**

Separate contract authority (replaces the previous set-aside) for 2005-2009 is provided for carrying out planning, design, engineering, preconstruction, construction, and inspection of projects to replace deficient IRR bridges. The Indian Reservation Road Bridge Program (IRRBP) was amended by establishing new policies and provisions. It authorizes \$14 million of IRRBP funds per year for the replacement or rehabilitation of structurally deficient or functionally obsolete IRR bridges. In accordance with these changes, the FHWA, with input and recommendations from the BIA and the Indian Reservation Roads Coordinating Committee (IRRCC), is proposing funding distribution procedures for BIA owned and non-BIA owned IRR bridge projects. The proposed changes allow funding for preliminary engineering (PE), construction engineering (CE), and construction for the replacement or rehabilitation of structurally deficient or functionally obsolete IRR bridges.

#### **IRR Road & Bridge Maintenance**

Up to 25% of a tribe's IRR construction funding may now be used for the purpose of road and bridge maintenance, although BIA will retain primary responsibility for IRR maintenance programs through DOI appropriations.

#### **Tribal-State-BIA Road Maintenance Agreements**

An Indian tribe may enter into a road maintenance agreement with a State and/or BIA to assume the responsibilities of the respective DOT for roads in and providing access to Indian reservations. Annual report to Congress is required beginning in 2005 (prepared and submitted by the Secretary) identifying tribes and States that have entered into these agreements, miles assumed, and funds transferred.

#### Deputy Assistant Secretary of Transportation for Tribal Government Affairs

A new position in DOT is established to plan, coordinate, and implement DOT programs serving Indian tribes.

#### **Tribal Transit Grant Program**

In SAFETEA-LU, Congress created a new Tribal Transit Grant Program, by reserving funds from the Federal Transit Administration (FTA) rural transit program, called Section 5311 Rural Public Transportation program to make federal transit grant funds directly available to Tribal governments. The available grant funding started at \$8 million in FY 2006 and increases in steps to \$15 million in FY 2009.

#### E. ROAD CONSTRUCTION FUNDS

The Navajo IRR Program's primary source of funding is the Highway Trust Fund (HTF), an interest-bearing account funded by federal gasoline taxes, cross-country trucking levies, and other sources. IRR funds are primarily distributed for construction and improvement of IRR roads, bridges, and other eligible transportation facilities.

#### 1. IRR Funds

SAFETEA-LU authorized a total of \$1.93 billion for the IRR Program or 40% increase: \$300M, \$330M, \$370M, \$410M, and \$450M for fiscal years 2005, 2006, 2007, 2008, and 2009 respectively. Table I-1 shows the FY2008 annual IRR appropriation and take-downs. Table I-2 summarizes the FLHP fund program.



Table I-1. Summary of FY 2008 IRR Funding

Tribal Transportation Allocation Methodolgy		Up to \$275M		Over \$275M	Total
Authorized Funding Amounts		275,000,000		135,000,000	410,000,000
Less Rescission		0		0	0
Subtotal		275,000,000		135,000,000	410,000,000
Less FHWA takedown per Approps Bill		0		0	0
Subtotal		275,000,000		135,000,000	410,000,000
Less Lake Tahoe Funding		1,375,000		675,000	2,050,000
Subtotal		273,625,000		134,325,000	407,950,000
Less for Obligation Limitation (7.9%)		21,616,375		10,611,675	32,228,050
Subtotal		252,008,625		123,713,325	375,721,950
Less Bridge Inspections		670,732		329,268	1,000,000
BIA PM&O/PRAE		16,432,927		8,067,073	24,500,000
FLH-HQ (Inventory, Travel, S&O, and Safety)		1,006,098		493,902	1,500,000
Subtotal		233,898,868		114,823,082	348,721,950
LessTribal Transportation Planning (2%)		5,040,173		2,474,267	7,514,440
Subtotal		228,858,695		112,348,815	341,207,510
A vailable for RNDF Distribution	@ 95%	217,415,762	@ 75%	84,261,611	301,677,373
A vailable for High Priority Project	@ 5%	11,442,935	@ 12.5%	14,043,602	25,486,537
A vailable for Population Adjustment Factor		_	@ 12.5%	14,043,602	14,043,602
A vailable for Tribal Transportation Planning		5,040,173		2,474,267	7,514,440
Total Funds Available for Distribution		_			348,721,952

Source: Navajo DOT

Table I-2. Federal Lands Highway Program – Funding Authorizations Table, FYs 2005-2009 (in Millions)

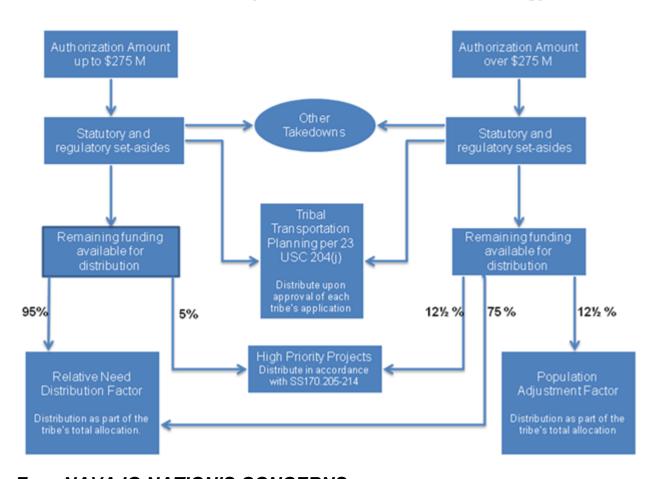
Funde	Funded Program 20			2007	2008	2009	Total	
B.1	.1 Emergency Relief - Federal Roads Funding leve				els determined as needed			
B.2	Indian Reservation Roads (IRR)	300 330 370 410 450 1			1,860.0			
B.3a	IRR Maintenance	Up to 25% of funding in B.2						
B.4	IRR Bridge	14	14	14	14	14	70.0	
B.5	Park Roads & Parkways	180	195	210	225	240	1,050.0	
B.6	Public Lands Highways	260	280	280	290	300	1,410.0	
B.7	Refuge Roads	29	29	29	29	29	145.0	

<sup>\*</sup> BIA Maintenance and IRR Bridge authorizations are estimates.

### 2. Funding Distribution Formula

As a result of the mandated TEA-21 negotiated rulemaking process, the 25 CFR Part 170 Indian Reservation Roads Program regulations set forth the Tribal Transportation Allocation Methodology (TTAM) to allocate IRR Program funds. After appropriate statutory and regulatory set-asides, as well as other takedowns, the remaining funds are allocated as shown in the chart below.

## Annual Tribal Transportation Allocation Methodology



#### F. NAVAJO NATION'S CONCERNS

## 1. Road Inventory Issue

TEA-21 of 1998 mandated a rewriting of the 25 CFR Part 170. The new rule implemented in November 2004 included all IRR roads (state, county, BIA, etc) in the distribution formula.

The new 25 CFR Part 170 allows roads other than BIA to be computed in the IRR funding distribution formula that permits tribes and regions to inventory and include roads under the ownerships of State and County. This creates a disproportionate and drastic increase in the national IRR inventory mileage total (See Table I-3 and Table I-4). Regions with high amounts of County and State roads and few BIA roads are allocated higher amounts of funding for their BIA/tribal roads due to this change in the inventory and formula.



Table I-3. Nationwide IRR Inventory Total Mileage

Year of Inventory	BIA Roads Mileage	Tribal Roads Mileage	State Roads Mileage	County Roads Mileage	Other Agency Mileage	Approved Total IRR Mileage
1994	25,700*		25,600*			51,300
2005	27,518	2,851	9,049	22,324	1,037	62,779
2006	28,882	4,287	13,164	34,345	4,646	85,324
2007	29,878	9,659	13,676	43,077	5,393	101,683

<sup>\*</sup> These categories were combined in 1994.

Notes: 1994 and 2004 Additional Mileages were rounded to the nearest mile. Source: FHWA, IRR Program Comprehensive Inventory Report, January 2008.

Table I-4. Total IRR Inventory Roadway Mileage By Region

Region	2005	2006	2007
Great Plains	7,925	12,562	14,343
Southern Plains	2,144	2,217	3,220
Rocky Mountain	3,414	6,575	8,129
Alaska	3,172	7,478	12,722
Midwest	10,173	13,596	14,009
Eastern Oklahoma	2,657	7,628	11,288
Western	7,216	7,218	7,587
Pacific	795	1,272	1,489
Southwest	4,652	5,517	6,117
Navajo	9,753	9,810	10,076
Northwest	9,547	9,983	10,762
Eastern	1,331	1,468	1,931
Total	62,779	85,324	101,683

Source: FHWA, IRR Program Comprehensive Inventory Report, January 2008.

## 2. Decreased IRR Funding for Navajo Nation

This new TTAM method of computing IRR funding has created a dramatic shift in IRR funding distribution among the BIA regions from funding of past years. Now large tribes with high BIA and Tribal road mileage get less percentage of the available funding, while some small tribes and regions with much less BIA road mileage, but with added mileage of state and county roads to their system, get substantial increases. Table I-5 illustrates this redistribution of funds in recent years. Navajo Region's funding reduced from an average of 26% during TEA-21 share to 17%share during SAFETEA-LU as shown on Figure I-1 below.



**I-7** 

Figure I-1. IRR Funding

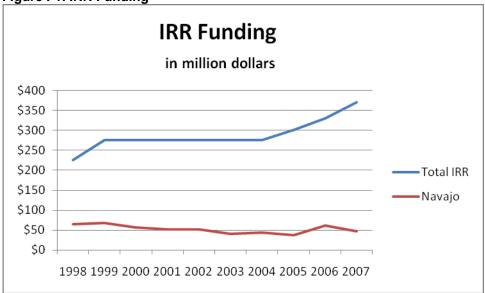


Table I-5. TEA-21 and SAFETEA-LU – IRR Construction Allocations in Million Dollars

	TEA-21						SAFETEA-LU			
Region	FY1998		FY1999		FY2000		FY 2007		FY 2008	
Region	In \$million	%	In \$million	%	In \$million	%	In \$million	%	In \$million	%
Great Plains	\$20.225	10.3%	\$22.243	9.2%	\$28.115	12.0%	\$19.600	7.1%	\$24.500	8.1%
South Plains	\$9.455	4.8%	\$8.847	3.7%	\$10.331	4.4%	\$8.800	3.2%	\$10.100	3.3%
Rocky Mtn	\$13.940	7.1%	\$25.197	10.4%	\$16.850	7.2%	\$23.300	8.4%	\$22.800	7.6%
Alaska	\$23.569	12.0%	\$17.997	7.4%	\$27.099	11.5%	\$31.300	11.3%	\$39.400	13.1%
Midwest	\$9.859	5.0%	\$9.931	4.1%	\$11.340	4.8%	\$40.200	14.5%	\$44.400	14.7%
E Oklahoma	\$20.213	10.3%	\$20.059	8.3%	\$17.303	7.4%	\$40.600	14.6%	\$43.700	14.5%
Western	\$9.455	4.8%	\$30.369	12.6%	\$9.894	4.2%	\$19.600	7.1%	\$19.200	6.4%
Pacific	\$5.257	2.7%	\$6.229	2.6%	\$8.303	3.5%	\$6.400	2.3%	\$5.700	1.9%
Southwest	\$13.485	6.8%	\$14.184	5.9%	\$21.231	9.0%	\$16.800	6.1%	\$13.200	4.4%
Navajo	\$64.493	32.7%	\$67.528	27.9%	\$57.320	24.4%	\$47.400	17.1%	\$52.200	17.3%
Northwest	\$3.368	1.7%	\$14.482	6.0%	\$14.273	6.1%	\$17.400	6.3%	\$20.200	6.7%
Eastern	\$3.811	1.9%	\$4.745	2.0%	\$12.754	5.4%	\$5.900	2.1%	\$6.300	2.1%
Total	\$197.132	100%	\$241.811	100%	\$234.812	100%	\$277.300	100%	\$301.700	100%

Source: Navajo Regional Office Division of Transportation.

Figure I-1 shows while total IRR funding increased 40% during SAFETEA-LU, Navajo Region's funding decreased. This may derive from not only the change in the inventory to include the State and County roads but also from the 25% set aside (12.5% to High Priority Projects and 12.5% for Population Adjustment Factor) making only 75% of the total IRR program fund available for road construction. This also means that 75% of remaining IRR funds for road construction is not enough and 25% set-aside is too much, indicating the TTAM or formula needs to be changed. This in turn has caused an enormous backlog of transportation need for Navajo due to the funding share dropping while the needs continue to grow.

#### 3. Obligation Limitation & Funding Impacts

The obligation limitation is a congressional contract authority reduction on available IRR funds, approximately 7%-15% of each annual appropriation. Prior to TEA-21 and SAFETEA-LU, the FLHP, including the IRR, were exempt from this annual deduction. A comparison of the IRR program funding levels to those of State highways funding, indicates that the entire IRR Program is funded less than the smallest state DOT program, even though the mileage of all BIA roads equals the mileage of a comparable state road system. The obligation limitation even further reduces the actual funding available for the IRR road construction, and, thus transportation needs of tribal roads can not be fully funded.

## 4. Navajo Nation Objectives

On June 19, 2008, the TCDC of the Navajo Nation Council passed a resolution to approve the Navajo Nation Position on the Indian Reservation Roads Program Funding Distribution and Recommendations to the Assistant Secretary of Indian Affairs Addressing the Concerns in 25 CFR 170, Appendix C to Subpart C.

This document states that the Navajo Nation participated in the IRR TEA-21 Negotiated rulemaking process in good faith to develop a fair and equitable funding distribution formula. The Navajo Nation consented to adding a provision to implement a new "Highest Priority Projects Program" along with the "Population Adjustment Factor" to address smaller tribe's transportation needs.

While working with the new regulation, the Navajo Nation realizes that some provisions were modified and the final rule is not as intended. The IRR inventories of other tribes are being inflated with road mileage that are owned by others, i.e. county and state roads, which are eligible to receive separate funding. This is occurring due to 25 CFR 170, Appendix C to Subpart C, Question 10.

The Navajo Nation believes the IRR program is to serve members of Indian tribes residing on Reservations. Therefore, the federal IRR funds appropriated for road construction should be primarily used for roads within the reservations. County and state roads are facilities under the jurisdiction of those respective governmental agencies. Thus, the Navajo Nation agrees that 25 CFR 170, Appendix C to Subpart C, Question 10 needs to be re-written to clarify and make a distinction between which roads generate 100% funding in the formula and which roads should be factored in at a lower percentage.

The current funding formula favors roads owned by others, with higher traffic volumes, which are eligible for other federal funds. Use of a "Sliding Scale Rates of Federal-Aid Participation in Public Lands State for Projects on the Interstate System" application does not treat all tribes equally because the rates fluctuate from state to state.

The Navajo Nation believes that in order to be fair and keep within the intent of the Rulemaking, the county/township and urban roads that were grandfathered into the official inventory at the start of the new regulation be counted at 100% until the end of Fiscal Year 2009, where they may then be counted at a modified non Federal sliding scale. All state, other federal, and interstate roads would be set to 0% Cost to Construct (CTC) and Vehicle Miles Traveled (VMT).



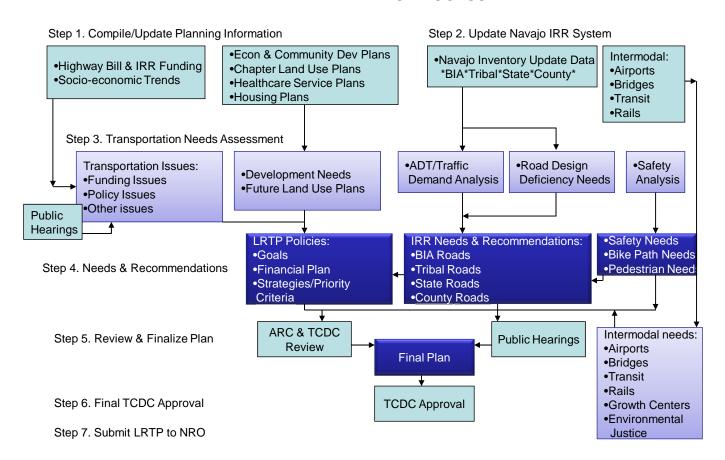
The Navajo Nation will not support changes to the relative need formula that will negatively influence the additional tribal roads that will be included during the inventory update for this year and in later years.

#### G. LRTP PLANNING PROCESS

The long range transportation planning scope is comprehensive. It includes examination of tribal and IRR program goals, objectives and transportation issues; compilation of information (socioeconomic data and development plans); analyses of all modes of transportation data (roads, bridges, airports, transit and rails); evaluation of road inventory data for future transportation according to highway design guidelines and pavement management requirements; and crash data analysis for safety needs. The review process includes public involvement at public hearings and final approval by the tribal transportation committees. Figure I-2 below illustrates the LRTP process and explains the rational of this 2009 LRTP contents and organization.

Figure I-2. Navajo Nation LRTP Planning Process

# LONG RANGE TRANSPORTATION PLAN PLANNING PROCESS



#### H. DOCUMENT ORGANIZATION

The 2009 Navajo Nation Long Range Transportation Plan is organized into twelve chapters as follows:

- Chapter 1 documents the process for obtaining Federal funding through the IRR Program and the historical and projected funding levels for the Navajo Nation.
- Chapter 2 provides a profile of the Navajo Nation to better understand the transportation needs of the general population. This profile provides summaries of the various socioeconomic features of the reservation, including population and employment forecasts, land uses, travel behaviors and demands
- Chapter 3 summarizes the IRR inventory for all roadways serving the Navajo Nation Reservation.
  The inventory classifies the roadways into various jurisdictions, namely: Navajo-BIA, Tribal, State,
  County, and other agency roads. Characteristics of these roadways are provided, as well as
  supporting graphics to identify their locations.
- **Chapter 4** discusses existing and future travel demands on the Navajo IRR roadway system. Primary travel patterns and origins/destinations are presented.
- Chapter 5 comprises the entire transportation needs assessment for the Navajo Nation.
   Transportation Needs are categorized into 11 focus areas: geometric design deficiencies, Class 2
   Road needs, pavement deficiencies, safety concerns, Chapter House access needs, Growth Center Street needs, community and economic development transportation needs, scenic byways and tourism, intermodal transportation, other transportation needs, and cultural and environmental considerations. The information in Chapter 5 captures the recommendations of the later chapters of the study.
- Chapter 6 presents the conclusions and recommendations for the Navajo-BIA roads. Within this chapter, the long range transportation plan is outlined, along with the improvement plan and funding strategies to prioritize projects. The long range construction priority strategy is established.
- Chapter 7 presents the unique transportation needs of each Growth Center within the reservation.
   Development trends are reviewed and the specific transportation issues for each community are discussed.
- Chapter 8 outlines the Navajo Nation airport needs. Strategies for developing a master airport plan are identified.
- Chapter 9 summarizes the bridge improvement and maintenance needs.
- Chapter 10 summarizes the Navajo-BIA road maintenance needs. General information on the Navajo Road maintenance programs and its funding source are presented.
- Chapter 11 identifies the improvements needed along each major State highway that runs through the Navajo Nation.
- Chapter 12 identifies the improvements needed along County roads serving the reservation.
- Chapter 13 identifies the improvements needed along Tribal roads serving the reservation.
- Appendix A shows returned survey questionnaires.
- Appendix B shows access management samples.
- Appendix C shows transportation needs by route.

#### CHAPTER II - NAVAJO NATION PROFILE

This chapter provides background information of the Navajo Nation government, socioeconomic and transportation characteristics that underline its transportation needs, funding formula, and decision making,

#### A. NAVAJO NATION GOVERNMENT

The first Navajo Tribal Council was established in 1923, but it was not until 1938 that the first election took place and an elected Tribal Chairman headed the Navajo Nation government. The Title II Amendments passed in December 1989 established the present three-branch government of Executive, Legislative, and Judicial Branches.

The Executive Branch is headed by the President of the Navajo Nation and the Vice President. The Legislative Branch consists of the Speaker of the Council and the Navajo Nation Council comprised of 88 elected council delegates representing 110 chapters, consisting of the smallest recognized administrative units in the communities. The Judicial Branch includes the Chief Justice and the Navajo Nation courts. Elections for the President of the Navajo Nation and the Council Delegates are held every four years in November. Elections for the local Chapters are held on the offsetting four-year term. Window Rock, Arizona is the capital of the Navajo Nation where the tribal governmental headquarter is located.

The Navajo Nation is not an Indian Reorganization Act (IRA) tribe. Instead of a BIA-approved constitution, the Navajo Tribal Codes govern Navajo Nation operations. The 1989 Title II Amendment gives the oversight of all tribal government programs to twelve standing committees of the Navajo Nation Council. One of the standing committees, the TCDC has oversight authority on all transportation development on the Navajo Nation. Five ARCs identify agency-level transportation needs and recommend agency construction priorities to TCDC. Each ARC is appointed by their respective Agency Council.

#### B. LAND BASE

The Navajo Nation Reservation is comprised of a complex mix of trust, allotted, railroad, fee, and private lands. Also present is an overlap of state, county, tribal, and federal jurisdictional boundaries. Varying jurisdictional methods for calculating, recording, and coding geographic information, combined with the complexity of land ownership, make it hard to find accurate land acreage for the reservation. The data and figures presented in this report are based on the available data provided by the Navajo Land Department Title Section, BIA, states, counties, and other sources..

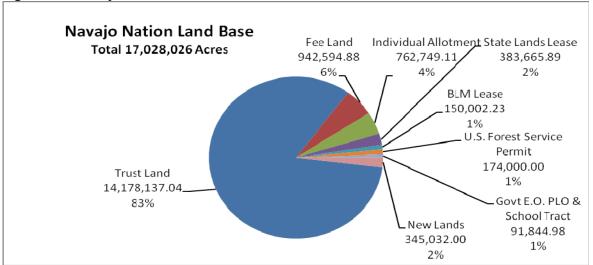
The Navajo Nation has the largest land base reservation in the United States. It encompasses approximately 26,600 sq. miles or 17.0 million acres (68% in Arizona, 25% in New Mexico and 7% in Utah). The reservation also falls under ten counties: Apache, Coconino, and Navajo in AZ; Bernalillo, Cibola, McKinley, San Juan, Sandoval, and Socorro in NM; and San Juan in UT. Average density is 6.8 persons per square mile. The Navajo reservation also includes three Navajo satellite communities in Alamo, Tohajiilee, and Ramah that are located in western and central New Mexico. The reservation land is also organized into five agencies, 23 districts and 110 chapters.

The majority of the Navajo Reservation land, approximately 83%, is comprised of Navajo Tribal Trust land, while the rest includes Tribal Fee land, Individual Navajo Allotment, State land, U.S. Forestry land, U.S. Bureau of Land Management (BLM) Lease land, and other government tracts such as Executive Orders, Public Land Orders, and school tracts. Most of the tribal fee lands, allotments, and BLM leases are in the Eastern Navajo Agency in New Mexico; these areas are referred to as the Checkerboard area. Figure II-1 shows the distribution of the Navajo Nation land base.

Division of Economic Development Website 2008, Navajo Nation Land Area



Figure II-1. Navajo Nation Land Base



The five Navajo agencies are Shiprock/Northern Navajo, Western Navajo, Eastern Navajo, Chinle and Fort Defiance Agencies. The New Lands (Nahat'a' Dziil) Chapter, which was acquired pursuant to the 1974 Navajo-Hopi Relocation Act and Navajo Irrigation Industry Project (NIIP), which is the commercial agricultural area designated for tribal agri-industry development are considered additional agencies by the BIA -NRODOT for the IRR program management purpose. Ramah is a satellite community that does not have acreage but is counted in the Census. Table II-1 shows the relative population and acreage within each agency.

Table II-1. Land Area and Population by Agency

Agency	2000 Population	Land Acreage	
Shiprock/Northern Navajo	30,981	2,641,395	
Western Navajo	38,260	5,549,025	
Eastern Navajo	33,841	3,341,125	
Chinle	28,491	1,883,269	
Ft. Defiance	45,761	3,157,550	
New Lands	1,452	345,032	
NIIP	0	110,630	
Ramah	1676		
Total	180,462	17,028,026	

Sources: Census 2000 Data Land Department-Title Section 03/31/98

Notes: Each Agency's acreage is based on the geographical polygon area from the Agency shapefile.

The Navajo IRR Program funds construction and improvement of the Navajo-BIA roads and other transportation infrastructure within the Navajo Reservation for each of these agencies, with the exception of the Ramah area. This area receives separate funding for its administration and programs from the BIA-Southwest Regional Office.

The lands covered by the Navajo IRR Program include the newly acquired lands/ranches. These lands are acquired from the Navajo-Hopi dispute and are located within the Western agency. Roads on these newly acquired lands/ranches are being inventoried and will be added to the IRR system.

Road development on U.S. Forestry lands receive funding from the FLHP under separate categories.

II-2

#### C. POPULATION

According to the 2000 Census, the Navajo Nation is the largest Indian tribe in the United States with an estimated nationwide population of 269,202. The 2000 Census population on the Navajo Reservation was 180,462, which represents an annual population growth of 1.96% from the 1990 Census population of 148,658. Of the 180,462 total reservation population, 175,228 (96.4%) were Navajos, with the remaining population comprised of other Indian tribes and races.

The FHWA considers a community of 5,000 or greater a small urban area.<sup>2</sup> Of the 110 chapters of the Navajo Nation, Shiprock, Tuba City, Chinle, Ft. Defiance, Window Rock/St. Michaels and Kayenta communities had populations greater than 5,000 in 2000, qualifying them as small urban areas.

#### 1. Socioeconomic Characteristics

The following provides a discussion of various socioeconomic attributes of the Navajo Nation. The figures are based on the U.S. Census Bureau's official estimates from its 2007 American Community Survey produced for the Navajo Nation Reservation and Off-Reservation Trust Land in Arizona, New Mexico, and Utah.

#### Households and Families

In 2007 there were 41,645 households on the Navajo Nation Reservation with an average household size of 3.9 people, and a total of 31,398 families with an average of 4.7 persons per family.

#### **Geographical Mobility**

The majority (96%) of the people lived in the same residence. The rest had recently moved from elsewhere.

#### Education

The total school enrollment was 52,272 in 2007. Of this, 39,772 were elementary and high school enrollment, 4,833 were preschool and kindergarten enrollment and 7,667 were college and graduate school enrollment. Of those people 25 years of age and older, 64% had, at a minimum, graduated from high school and 9% had a bachelor's degree or higher.

#### Income

The Navajo Nation's median household income was \$25,456, or approximately half of the U.S. household median income of \$50,740. The Navajo Nation's per capita income was \$10,441, or less than half of the U.S. per capita income of \$26,688.

#### **Labor Force and Employment**

53,458 or 44.3% of people 16 years of age and over were in the labor force. Of the total labor force, 46,246 were employed in civilian labor force and 135 were employed in the Armed Forces. Approximately 14% were unemployed twice the U.S. unemployment rate. However, the 2005-2006 Comprehensive Economic Development Strategy by the Navajo Nation Division of Economic Development reports higher unemployment rate of 48.5% in 2005.

#### **Poverty**

In 2007, 36.8% of the population, and 30.8% of all families, lived below the poverty level.

#### **Travel to Work**

A Navajo family has an average of 1.98 cars per household.<sup>3</sup> Of those individuals commuting to work, 76.6% drove to work alone, 11.9% carpooled, 0.6% used public transportation, 0.1% walked and 2.1% used other means. Mean travel time to work was 34.5 minutes.

<sup>2001</sup> Navajo DOT origin-destination survey



FHWA Highway Functional Classification - Concepts, Criteria and Procedures

## 2. Future Population

Based on the 1990 and 2000 Census data, the Navajo Reservation's population grew at 1.82% annually from 1990 to 2000 (Table II-2). If the same growth rate continues, the Navajo Nation Reservation's population in 2030 is estimated to increase to 310,012 people.

Table II-2. Population Projection by Agency

Agency	2000	2010	2020	2030
Shiprock Agency	30,981	37,104	44,438	53,222
Western Agency	38,260	45,822	54,879	65,726
Eastern Agency	33,841	40,530	48,541	58,135
Chinle Agency	28,491	34,122	40,867	48,944
Ft. Defiance Agency	45,761	54,806	65,638	78,612
New Lands	1,452	1,739	2,083	2,494
Ramah	1,676	2,007	2,404	2,879
Reservation Total	180,462	216,131	258,850	310,012

#### D. NAVAJO NATION ECONOMY

The economy of the Navajo Nation depends primarily on employment in private and public sectors and in basic industries. Comparing 2000 and 2007 Census data on economic characteristics for the Navajo Nation (Table II-3), employment increased 7,781 jobs or 20.2%. Private sector jobs increased 25% between 2000 and 2007. This private sector accounts for the largest employment sector, at 54.4% of the total employment. Government employees represent the next largest portion of the total employment, at 42.6%. Compared to the Census 2000 data, 52.2% were in private sector and 44.3% were in government, indicating a slight increase in private sector. In 2007, the number of self-employed individual represents the only decrease in employment type.

Table II-3. Navajo Nation Employment Comparison by Sector

Employment Sector	2000	2007	Difference	Percent
Private Sector	20,063	25,166	5,103	25%
Government	17,042	19,722	2,680	16%
Self-employed	1,294	1,251	-43	-3%
Unpaid family workers	66	107	41	62%
Total	38,465	46,246	7,781	20%

Table II-4 provides additional breakdown of employment type for both 2000 and 2007. As indicated in this table, 739 jobs were lost in wholesale trade, information, transportation, warehousing and utilities and professional, scientific and management while 16,301 jobs were gained in most sectors.

In the public sector, employment by schools and Indian public health services was the largest portion of any industry, accounting for nearly 16,000 employees. The Navajo Nation government also employed about 6,500 people. Cuts in government funding made public sector jobs gained only moderate.

In the private sector, significant employment increases were documented in the finance, insurance, real estate sector (110%); 76% in agriculture, forestry, mining; and 51% in retail trade. Lease extension of the Pittsburgh and Midway Mine, oil and gas related business expansion and bringing businesses to industrial parks and the Karigan Estate development were probably the major contribution to the employment increase.

11-4

Table II-4. Navajo Nation's Employment by Industry

Industries/Economic Sectors	Number of Employees 2000	Number of Employees 2007	% Increase
Agriculture, forestry, fishing, hunting, mining	1,501	2,641	75.9%
Construction	4,759	5,683	19.4%
Manufacturing	1,702	1,897	11.5%
Wholesale Trade	448	294	-34.4%
Retail Trade	3,201	4,830	50.9%
Transportation, warehousing, utilities	2,312	1,919	-17.0%
Information	321	257	-19.9%
Finance, insurance, real estate, rental, leasing	785	1,653	110.6%
Professional. scientific, management, administrative, waste management services	1,071	943	-12.0%
Educational, health, social services	13,705	15,977	16.6%
Arts, entertainment, recreation, hotel, and food services	3,280	3,961	20.8%
Other services (except public administration)	1,313	1,509	14.9%
Public administration	4,067	4,682	15.1%
Total	38,465	46,246	20.2%

Source: Census 2000 and 2007 American Community Survey.

The Navajo Nation's economy in 2007 seemed to fare better than in 2000. Per capita income increased to \$10,441 in 2007 from \$8,536 from Census 2000, unemployment rate was down (this is not the case in the 2005 report by Division Economic Development), and the number of people living below the poverty level reduced to 36.8% in 2007 from 42.9% in 2000. However, the Navajo Nation's economy, employment, and income were well below the U.S. national average, and comparable to that of a developing country.

The gasoline price reduction in 2008 drastically reduced the Navajo Nation's revenue from oil, resulting in a proposed 15.6% government budget cut for 2010, and, if the trend continues, this may result in future budget cuts. The U.S. recession that started in 2008 has badly reduced the tribal and employee's 401K investments. The Navajo Nation's public sector is tied to government funding while the private sector depends on demand in energy and natural resources production and people's purchasing power. The U.S. recession impacts the Navajo Nation in both fronts.

The Navajo Nation, however, has some major economic development projects, such as the Fire Rock Casino, which opened in 2009, and the Desert Rock Power Plant planned to be opened in 2010. The Federal Stimulus Recovery Act may provide additional business developments at major center growth areas such as Shiprock, Tuba City, and Window Rock, that may help create more jobs and revenue. The Obama administration's economic stimulus plan for infrastructure, expansion of healthcare to all children, and Indian healthcare programs and education may help lessen the severity of the impact of the U.S. economic recession on the Navajo Nation.

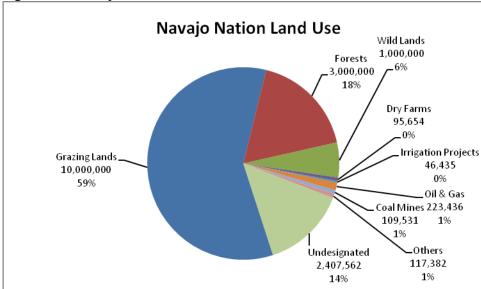
#### E. LAND USE

#### 1. Reservation-Wide Land Use

The majority of Navajo Reservation land is used for grazing. The reservation's high desert characteristics, scarcity of water, dry climate and currently inaccessible natural resources become inhibitive development factors. As summarized in Figure II-2, of the Navajo Nation's total 17.0 million acres, approximately 10 million acres are open grazing lands. 3-4 million acres are designated forest lands (Defiance Plateaus and Chuska Mountain) and wild lands. Only small areas are used for dry farming, and irrigation projects (NIIP in Shiprock Agency). Some lands are leased for oil and gas development and coal mining at Black Mesa areas and in the eastern part of the reservation. Very small areas are non-agricultural such as community, business and residential uses.

WILSON & COMPANY OF CO

Figure II-2. Navajo Nation Land Use



#### **Settlement Patterns**

The traditional lifestyle of sheep herding provided a stable living in the past, and still provides Navajo families a good supplemental income at present. As a result, Navajos live sparsely across the Navajo Reservation with an average density of 6.8 people per square mile. Population and land are divided into 110 chapters. Each chapter has its own government, which provides services located at a chapter house. A chapter house also serves as a community center. Higher densities of housing, community, and economic development are found in population centers, as dictated by development cost and tribal development policies.

#### 2. **Land Use Plans and Practices**

#### **Primary Growth Centers**

The Navaio Nation has designated six communities as Primary Growth Centers for economic development: Shiprock, Kayenta, Chinle, Crownpoint, Fort Defiance and Window Rock-St. Michaels. They are also the Navajo Nation's major population centers. Plans for these communities are to promote local retail business development, in an effort to capture dollars that Navajos normally spend outside the reservation on basic supplies and services. Another goal is to attract major industry/manufacturing to the reservation using availability of ample labor, land and tax incentives. The Navajo Nation is to implement these goals by making land available through land withdrawals, small business loans, and promotion of tourism and industrial sites.

#### **Secondary Growth Centers and Navajo Satellite Communities**

Ganado, Navajo, Many Farms, Pinon, Tsaile/Wheatfields, Nahata Dziil, Tohatchi, Dilkon, Leupp, and Shonto are designated as Secondary Growth Centers in Arizona. In New Mexico, Alamo, Tohaiiilee, and Ramah are designated as satellite communities. Each of these areas is secondary in population and employment needing planned economic development.

The Local Governance Act (LGA) of 1998 allows chapters to approve land withdrawal, business and homesite leases, and to implement and expedite development plans. However, prior to exercising such authority and implementing any development projects, chapters have to develop a land use plan. There are 72 chapters that have completed and received certification of their land use plans. These land use plans, however, emphasize only housing development sites for the chapters. Recent LGA requirements include general land use, thoroughfare and open space plans as well.

All six Primary Growth Centers have developed their land use plans. Of the Secondary Growth Centers, only Many Farms, Pinon, Nahata Dziil, Tohatchi, Leupp, and Shonto have completed their land use plans. For Navajo satellite communities, only Ramah has its land use plan.

### F. MODES OF TRANSPORTATION

Although roads have been the primary mode of transportation on the Navajo Nation, other transportation modes such as air, rail, and public transit have also increased in importance to the Navajo public. At present, access to tribal primary airports, regional railway and transit stations are in place. Access needs for future facilities are identified and discussed in Chapter V, Transportation Needs. Below is background on modes of transportation other than private vehicles in use on the Navajo Nation.

# 1. Air Transportation

There are approximately 32 airfields on the Navajo Reservation and the Checkerboard area. Of these, four are privately owned. Of the 28 public airfields, eight are Navajo Nation Primary Airports: Shiprock, Kayenta, Tuba City, Crownpoint, Chinle, Window Rock, Ganado, and Oljatoh Airports. They are small airports with single paved runways, except for Ganado which has an unpaved runway. All except Ganado Airport are currently in use. The remaining 20 airfields are Navajo Nation Secondary Airports. All have dirt runways with no supporting facilities and are mostly inactive or in poor condition. All Navajo Nation airports are open to the public.

Of the Navajo Nation Primary Airports, only Window Rock Airport has a small terminal. The Navajo Nation Air Transportation Services under the Division of General Services operates from the Window Rock Airport providing charter services primarily for the Navajo Nation Government. Eagle Air, a private company, also provides air transportation services and is based in Window Rock, Chinle and Kayenta Airports.

The Navajo Nation Primary Airports are used primarily for medical emergencies and secondarily for tribal government business. However, business and tourist use of Navajo Nation airports is increasing, especially at Kayenta and Chinle Airports. The Navajo Department of Transportation (Navajo DOT) is responsible for maintaining and overseeing development of Navajo Nation airports. Chapter VIII provides more information on each airport and overall improvement needs.

### **Adjacent Regional Airports and Air Transports:**

Gallup, Flagstaff, Page and Farmington are the closest cities with regional airports having commercial airlines servicing to major destinations.

# 2. Public Transportation

#### **Navajo Transit**

The Navajo Transit System (NTS) provides public transportation services on the Navajo Reservation, serving 57 of 110 chapters. NTS operates intercity bus service on seven fixed routes linking Navajo growth centers and adjacent border towns. The Tuba City-Window Rock, Toyei-Window Rock, Kayenta-Ft. Defiance, Crownpoint-Ft. Defiance, and Farmington-Window Rock routes operate one round trip per day Monday to Friday. Window Rock-Fort Defiance and Tsaile-Gallup routes are core service routes operating four and two round trips each weekday, respectively. In January 2009, the Flagstaff to Tuba City Route was started; this is a one hour trip that will run four times per day. In May 2009, the Kayenta to Tuba City route began to provide a one-hour, one-way trip. NTS connects with Hopi Transit System, Greyhound Busline, Amtrak Passenger Train, Gallup Transit Express, Red Apple Transit, and Flagstaff Mountain Line. NTS has several connections with Navaio Senior Centers along the routes

Most NTS fixed routes operate along state highways. NTS fixed route ridership has increased over the years. Ridership was 65,513 in 2008 and it is expected to increase by 20% in FY 2009, due to the \$1.00 per day ride fee that was established in November 2008 and will remain in place until November 2010.

Fixed route customers are classified as 51% general, 22% elderly, 20% commuters and disabled, youth and students making up the rest. NTS buses pick up riders at designated stops, but no NTS stations have been constructed. NTS charters provide transportation for groups, organizations and private tours on and off the Navajo Nation twelve months a year. NTS charter service includes transportation to Arizona State University, University of New Mexico, Haskell University, and other colleges.

#### **Other Public Transit Services**

Other tribal and private services that provide public transportation to Navajos on the reservation are as follows: Community Health Representative (CHR), a Navajo Nation agency providing emergency medical transportation upon request; a transport program run by Navajo Aging Services Department; Toyei Industries; the Horticulture Independent Living Program; St. Michael Special Education; and Safe-Ride Services, a private operation for non-emergency medical transport. The Navajo Nation Headstart Program provides bus service to transport about 800-900 pre-school children and transports teachers for home-study programs. Transport routes depend on customer/client residence location and intended destinations.

School districts, including BIA and contract schools and church schools on the reservation, usually provide bus services using government/school district buses. These buses run on fixed routes. A main concern regarding transportation needs is the road condition of school bus routes. The safety and welfare of the children is the main concern.

## **Adjacent Regional Bus Services**

Regional bus services such as Greyhound have no routes going through the Navajo Reservation. The nearest Greyhound stations are in Holbrook, Flagstaff, and Winslow, Arizona and Gallup and Farmington, New Mexico. Currently the NTS bus stops at the Greyhound station in Gallup.

#### 3. Railroads and Train Services

The Burlington Northern Santa Fe (BNSF) Railroad, a transcontinental railway that connects Los Angeles to Chicago, crosses northern Arizona and New Mexico. The BNSF rail line generally runs east-west just south of the Navajo Reservation boundary except in Arizona through the Nahata Dziil (New Lands) Chapter area, and in New Mexico through the Church Rock Chapter and checkerboard area in the Eastern Navajo Agency, where the BNSF line runs on the reservation.

The Black Mesa and Lake Powell (BLKM) Railroad operates within the western potion of the Navajo Reservation for the sole purpose of transporting coal from a strip mine at Black Mesa to the Salt River Project Navajo Generating Station near Page, Arizona. The generating station provides power to three southwestern states.

#### **Passenger Rail Service**

Passenger rail service is provided by Amtrak on the BNSF Railroad line. Amtrak stations closest to the Navajo Nation are in Gallup, New Mexico and in Winslow and Flagstaff, Arizona. Flagstaff had the highest passenger stop/boardings of 39,723 in 2008, while Winslow had 4,767 and Gallup had 12,517. In comparison and based on information in the 2003 LRTP, Flagstaff had the highest passenger stop/boardings of 54,200 in 1993 of 109,700 total passengers boarding in Arizona At the time that figure was anticipated to reach 172,000 by the year 2015, a 57% increase.

#### Freight Rail Service

Freight service on the BNSF Railroad also stops in Gallup, Winslow and Flagstaff. In 2005, approximately 135,000,000 tons of freight moved by rail in Arizona.<sup>4</sup> This compares to 175,000,000 tons in 1993 which at that time was estimated to increase to 275,000,000 tons by 2015. This includes material shipped in crates and containers and bulk materials such as coal, copper ore, and liquids.

The 78-mile BLKM Railroad was constructed in 1972 it is isolated and not connected with any other railroad; and it and hauls 8.4 million tons of coal annually. There is a tribal plan to build rail freight access at New Lands for economic development. However, the project is only conceptual. Information on proposed railroad needs is referenced in Chapter 5, NEED 9-Railroads.

<sup>&</sup>lt;sup>5</sup> 2007 Arizona Railroad Inventory and Assessment, page 46.



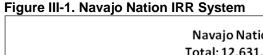
II-8

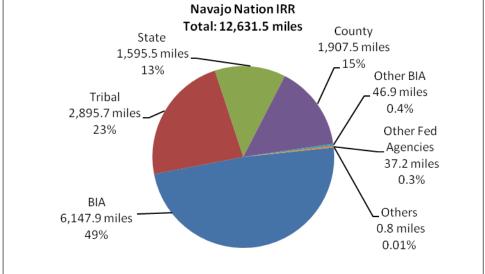
<sup>&</sup>lt;sup>4</sup> 2009 Arizona Multimodal Freight Analysis Study, page 27.

# CHAPTER III - NAVAJO NATION INDIAN RESERVATION ROAD SYSTEM

#### NAVAJO NATION IRR SYSTEM $\boldsymbol{A}_{-}$

An IRR System is defined as a road network serving an Indian reservation, comprised of public road systems located within, or providing access to it. Navajo IRR roads are funded and administered by various government highway programs. According to the 2008 Navajo Region Road Inventory (NRRI) database, the Navajo IRR system consists overall of 12,631.5 miles of public roads that can be subdivided by right-of-way ownership or program administration as follows: Navajo-BIA roads (6,147.9 miles); tribal roads (2,895.7 miles); state roads (1,595.5 miles); county roads (1,907.5 miles); other BIA programs' roads (46.9 miles); other federal agency roads (37.2 miles), and others roads (0.8 miles). Navajo-BIA, state and county roads are the main road systems serving the Navajo Reservation. Figure III-1 shows the percentage and mileage division of the overall Navajo IRR roads by ownership/program Map III-1 shows the overall Navajo IRR road system. Table III-1 shows ownership/program administration and mileage division by administrative agency.





Source: 2008 Navajo Region Road Inventory

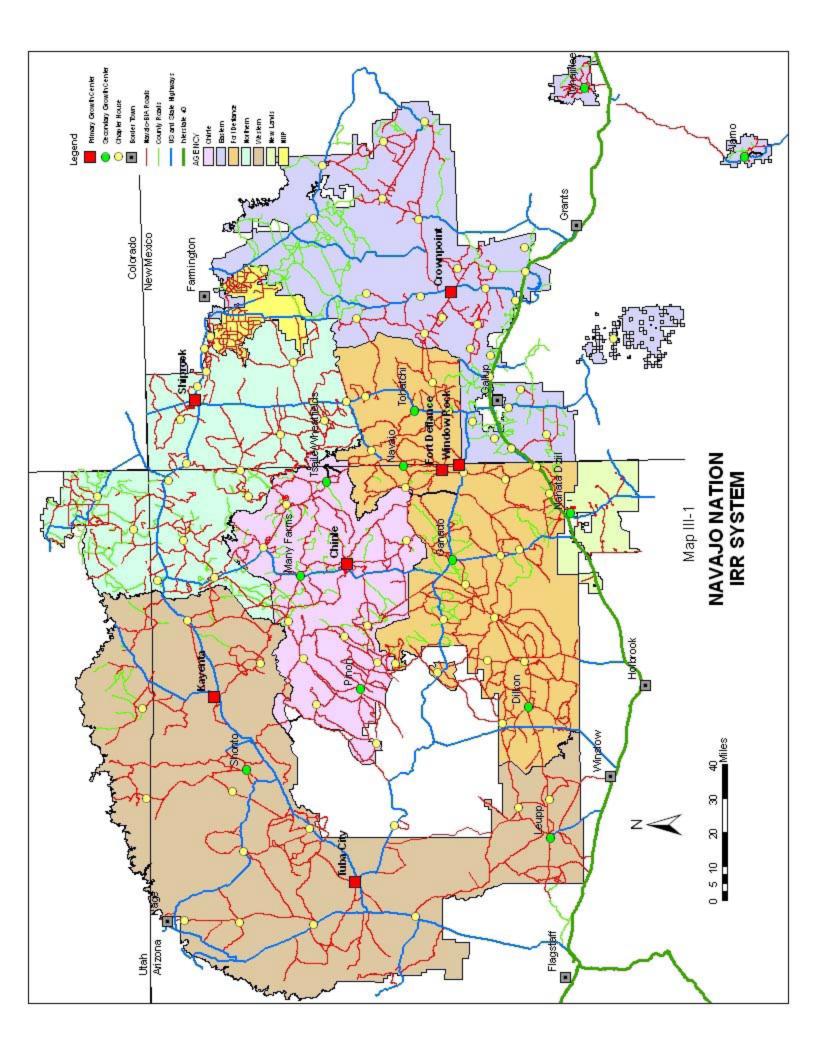


Table III-1. Overall Navajo Nation IRR System (in miles)

		Tribal	State	County	Other BIA	Other Fed	Others	Agency
Agency	BIA (1)	(2)	(3)	(5)	(6)	(7)	(8)	Total
New Lands (00)	86.7	0.0	89.3	0.0	0.0	0.0	0.0	176.0
Northern (32)	1,209.8	558.3	225.7	276.0	2.6	0.0	0.0	2,272.4
Western (33)	1,446.0	731.5	529.4	242.1	23.3	2.0	0.8	2,975.1
Eastern (34)	666.0	197.3	413.2	795.2	0.0	16.3	0.0	2,088.0
Chinle (35)	1,028.0	372.6	60.8	306.9	11.3	18.8	0.0	1,798.4
Ft. Defiance (36)	1,405.0	1,036.0	261.9	264.9	9.7	0.1	0.0	2,977.6
NIIP (48)	306.4	0.0	15.2	22.4	0.0	0.0	0.0	344.0
Total	6,147.9	2,895.7	1,595.5	1,907.5	46.9	37.2	0.8	12,631.5

Source: 2008 Navajo Region Road Inventory

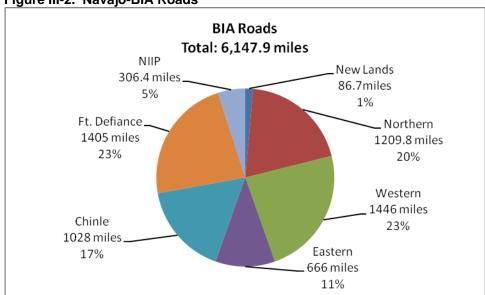
## B. NAVAJO-BIA ROADS

# 1. Navajo Nation Bureau of Indian Affairs Roads

Navajo Nation BIA Road System consists of existing and proposed public roads within the Navajo Reservation that meet the IRR definition and for which the BIA Navajo Regional Office Division of Transportation (BIA-NRODOT) has or plans to obtain a legal right-of-way. The Navajo-BIA road system or Navajo Routes include arterial roads, streets and other local public roads either linking to the state highway network or providing access to local Navajo communities.

The Navajo-BIA road system, totaling 6,147.9 miles, is the largest component of the Navajo IRR systems. The Navajo-BIA road system is subdivided into seven agencies for administrative and inventory purposes: Shiprock/Northern, Western, Eastern, Chinle, Ft. Defiance, NIIP, and New Lands Agencies. Figure III-2 shows the Navajo-BIA road system mileage in these agencies.

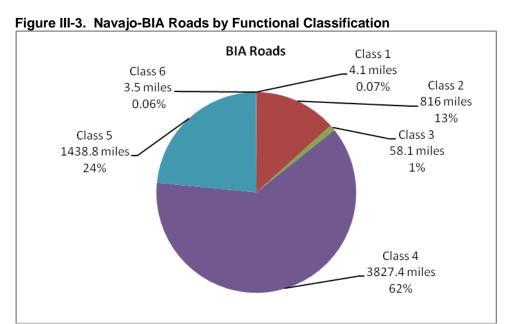
Figure III-2. Navajo-BIA Roads



Source: 2008 Navajo Region Road Inventory

# 2. Navajo-BIA Roads by Functional Classification

The Navajo-BIA roads are classified by their functional classification (Map III-2). Figure III-3 provides road mileage and percentage division by functional classification of the Navajo-BIA road system. Table III-2 summarizes the road mileage and percentage division by function classification of Navajo-BIA road system.



Source: 2008 Navajo Region Road Inventory

Table III-2. Navajo-BIA Roads by Functional Classification (in miles)

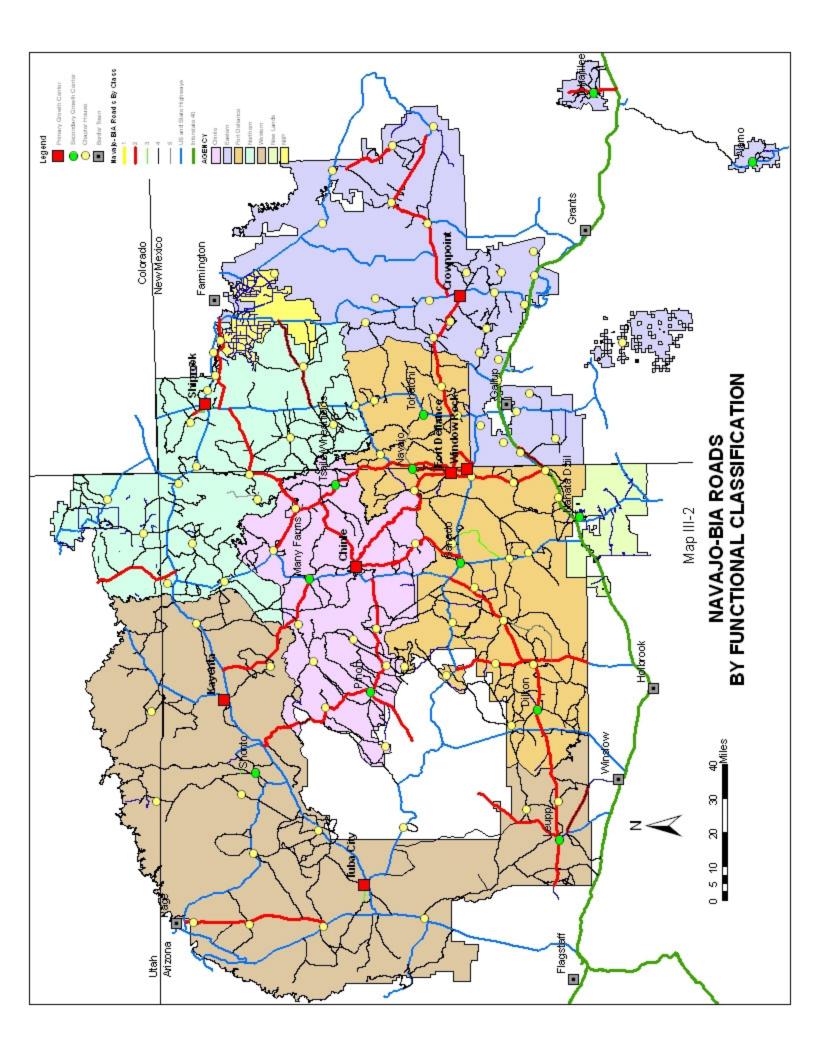
Agency	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Agency Total
New Lands	0.0	0.2	17.0	68.3	1.2	0.0	86.7
Northern	0.0	95.0	12.5	783.0	318.4	0.9	1,209.8
Western	1.0	102.4	17.9	804.7	520.0	0.0	1,446.0
Eastern	0.0	111.9	6.8	271.7	273.0	2.6	666.0
Chinle	1.1	234.0	3.4	717.5	72.0	0.0	1,028.0
Ft. Defiance	2.0	242.0	0.5	990.4	170.1	0.0	1,405.0
NIIP	0.0	30.5	0.0	191.8	84.1	0.0	306.4
Class Total	4.1	816.0	58.1	3,827.4	1,438.8	3.5	6,147.9

Source: 2008 Navajo Region Road Inventory

The following provides a description of the various roadway classifications, as defined in the DOI-BIA IRR Coding Guide, October 2004

Class 1 – Major Arterial Roads: The Navajo-BIA Class 1 roads are major arterial roads providing an integrated network with characteristics for serving traffic between large population centers, generally without stub connections and having average daily traffic volumes of 10,000 vehicles per day or more with more that two lanes of traffic. Class 1 roads constitute 4.1 miles or only 0.07% of the total Navajo-BIA system.

**III-4** 



- Class 2 Rural Minor Arterial Roads: The Navajo-BIA Class 2 roads are rural minor arterial roads providing an integrated network having characteristics for serving traffic between large population centers, generally without stub connections. These roads typically link smaller towns and communities to major resort areas that attract travel over long distances and generally provide for relatively high overall travel speeds with minimum interference to through traffic movement. Class 2 roads generally provide for at least inter-county or interstate service and are spaced at intervals consistent with population density. This class of road will have less than 10,000 vehicles per day. Class 2 roads constitute 816.0 miles or 13% of the entire Navajo-BIA system.
- Class 3 Streets: Street type roads are located within communities serving residential and other urban areas. These are streets at Navajo Growth Center communities, Navajo Housing Authority housing streets, etc. Class 3 streets amount to 58.1 miles or 1.0% of the total Navajo-BIA system.
- Class 4 Rural Collector Roads: The Navajo-BIA Class 4 roads are rural major collector roads that serve as a collector to rural local roads. The Navajo-BIA Class 4 roads make up most of the Navajo-BIA system, 3,827.4 miles or 62%.
- Class 5 Rural Local Roads: These roads are rural local roads that may be either section line or stub type roads, which make connections within the grid of the IRR system. This class of road may serve areas around villages, into farming areas, to schools, tourist attractions, or various small enterprises. This class also includes roads and motorized trails for administration of forests, grazing, mining, oil, recreation, or other use purposes. Class 5 roads amount to 1,438.8 miles of the total Navajo-BIA system, or 24%.
- Class 6 City Minor Arterial Roads: These roads consist of minor arterial streets that are located within communities and serve as access to major arterials. Class 6 roads amount to 3.5 mile or only 0.06% of the total Navajo-BIA system.
- Class 7 City Collector Streets: These are streets located within communities and serve as collectors to the city local streets. The Navajo Nation currently has none of this road class.
- **Classes 8-10** These are classification for non-road and other intermodal transportation facilities. The Navajo Nation has yet to inventory these.
- **Class 11** This is a classification to indicate an overlapping or previously inventoried road section (s) and is used to indicate that it is not to be used for accumulating needs data. This class is used for reporting and identification only.

# 3. Navajo-BIA Roads by Surface Type

The majority of Navajo-BIA roads are unpaved (Map III-3). Out of 6,147.9 miles total Navajo-BIA roads, only 1,494.4 miles (24%) are paved, 105.7 miles (2%) are gravel, 4,203.0 miles (68%) are earth, 291.7 miles (5%) are primitive roads, and 8.5 miles (0.1%) are proposed roads. Figure III-4 shows percentages of the Navajo-BIA road system by surface type. Table III-3 shows mileages of the Navajo-BIA road system by surface type and agency.



III-6

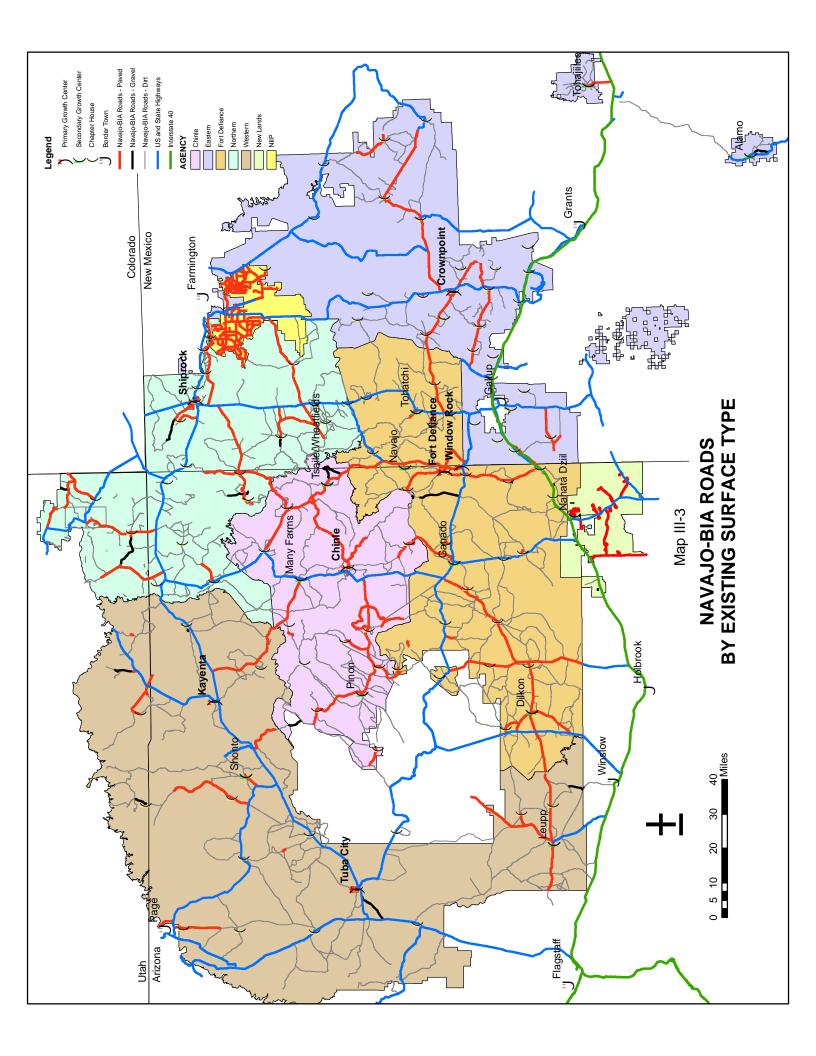
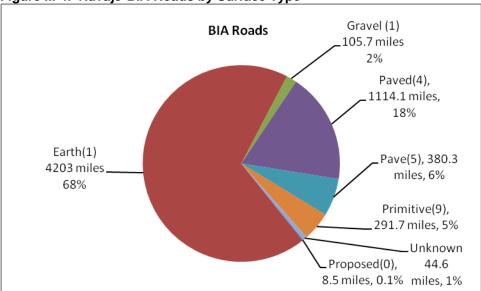


Figure III-4. Navajo-BIA Roads by Surface Type



Source: 2008 Navajo Region Road Inventory

Table III-3. Navajo-BIA Roads by Surface Type (in miles)

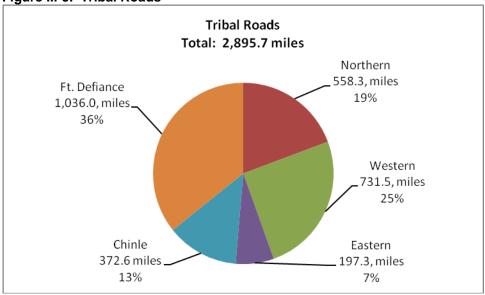
	Proposed	Earth	Gravel	Paved	Paved	Primitive		Agency
Agency	(0)	(1)	(3)	(4)	(5)	(9)	Unknown	Total
New Lands	0.0	3.1	0.0	83.6	0.0	0.0	0.0	86.7
Northern	0.0	880.4	40.1	189.3	61.5	37.7	0.8	1,209.8
Western	0.0	1,069.4	27.6	103.8	78.8	166.4	0.0	1,446.0
Eastern	0.0	456.5	5.5	129.2	57.6	17.2	0.0	666.0
Chinle	0.0	752.8	15.7	188.5	52.1	11.2	7.7	1,028.0
Ft. Defiance	0.0	1,040.3	16.8	200.1	88.6	59.2	0.0	1,405.0
NIIP	8.5	0.5	0.0	219.6	41.7	0.0	36.1	306.4
Surface								
Total	8.5	4,203.0	105.7	1,114.1	380.3	291.7	44.6	6,147.9

Source: 2008 Navajo Region Road Inventory

# C. TRIBAL ROADS

Tribal Roads are public roads under the jurisdiction of the Navajo Nation. The tribal road category consists mostly of minor public roads serving tribal government facilities, housing, communities and commercial areas. Of the 2,895.7 total tribal road mileage, 2,801.1 miles are earth roads, 11.6 miles are gravel roads, 78.6 miles are paved roads, and 4.4 miles are primitive roads. Figure III-5 and Table III-4 show tribal road mileage division by agency.





Source: 2008 Navajo Region Road Inventory

Table III-4. Tribal Roads (in miles)

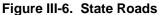
Agency	Earth(1)	Gravel(3)	Paved(4)	Paved (5)	Primitive(9)	Agency Total
New Lands	0.0	0.0	0.0	0.0	0.0	0.0
Northern	551.1	0.0	7.2	0.0	0.0	558.3
Western	698.7	0.0	32.8	0.0	0.0	731.5
Eastern	191.6	0.0	1.3	0.0	4.4	197.3
Chinle	350.4	0.8	21.4	0.0	0.0	372.6
Ft. Defiance	1,009.3	10.8	15.9	0.0	0.0	1,036.0
NIIP	0.0	0.0	0.0	0.0	0.0	0.0
Surface Total	2,801.1	11.6	78.6	0.0	4.4	2,895.7

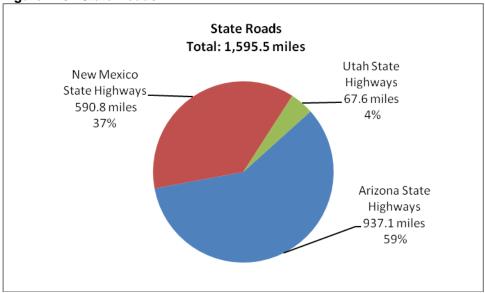
Source: 2008 Navajo Region Road Inventory

III-9

## D. STATE ROADS

There are 1,595.5 miles of Arizona, New Mexico, and Utah state highways that provide access for the Navajo Nation and connections to the surrounding region. State routes are main arterials/thoroughfares of the Navajo Reservation linking the nation's capital, Window Rock, Arizona and the other Navajo population/growth centers. State highway systems on the Navajo Reservation include 937.1 miles in Arizona, 590.8 miles in New Mexico, and 67.6 miles in Utah. Figure III-6 and Table III-5 show mileage division of state highways by agency. All state highways are paved roads except for the NM57 of which its entire length of 40.1 miles is earth.





Source: 2008 Navajo Region Road Inventory

Table III-5. State Roads (in miles)

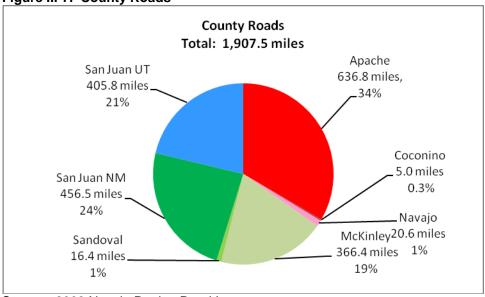
A	Arizona State	New Mexico State	Utah State	A Tatal
Agency	Highways	Highways	Highways	Agency Total
New Lands	89.3	0.0	0.0	89.3
Northern	70.2	113.8	41.7	225.7
Western	503.5		25.9	529.4
Eastern	0.0	413.2	0.0	413.2
Chinle	60.8	0.0	0.0	60.8
Ft. Defiance	213.3	48.6	0.0	261.9
NIIP	0.0	15.2	0.0	15.2
State Total	937.1	590.8	67.6	1,595.5

Source: 2008 Navajo Region Road Inventory

# E. COUNTY ROADS

County roads on the Navajo Reservation are primarily local collector roads extending from nearby off-reservation communities. The majority of county roads are in the Navajo Eastern Agency and Checkerboard areas of that agency where they provide access to Navajo Chapter areas. Other county roads are in Chinle, Shiprock, Western, Ft. Defiance, and NIIP Agencies respectively (see Figure III-7). Of the total 1,907.5 miles of county roads, 1,511.1 miles or 79% are earth roads, 110.3 miles or 6% are gravel, 134.9 miles or 7% are paved, and 151.2 miles or 8% are primitive roads. Table III-6 summarizes the mileage of County roads within the Navajo Nation reservation by county.





Source: 2008 Navajo Region Road Inventory

Table III-6. County Roads (in miles)

Agency	Apache	Coconino	Navajo	McKinley	Sandoval	San Juan NM	San Juan UT	Agency Total
New Lands	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Northern	39.6	0.0	0.0	0.0	0.0	6.9	229.5	276.0
Western	40.2	5.0	20.6	0.0	0.0	0.0	176.3	242.1
Eastern	0.0	0.0	0.0	351.6	16.4	427.2	0.0	795.2
Chinle	306.9	0.0	0.0	0.0	0.0	0.0	0.0	306.9
Ft. Defiance	250.1	0.0	0.0	14.8	0.0	0.0	0.0	264.9
NIIP	0.0	0.0	0.0	0.0	0.0	22.4	0.0	22.4
County Total	636.8	5.0	20.6	366.4	16.4	456.5	405.8	1,907.5

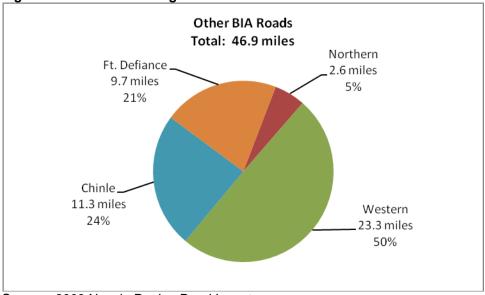
Source: 2008 Navajo Region Road Inventory

III-11

# F. OTHER BIA PROGRAM ROADS

This category describes a small group of roads, of which rights-of-way belong to various programs in the BIA (i.e., Forestry, BIA schools and facilities). Of the total 46.9 miles, 16.1 miles are earth roads and 30.8 miles are paved roads. There are no roads under this category in Eastern, NIIP, and New Lands Agencies. Figure III-8 and Table III-7 depict roads under this category by agency in percent and mileage division.





Source: 2008 Navajo Region Road Inventory

Table III-7. Other BIA Programs Roads (in miles)

Agency	Proposed(0)	Earth(1)	Gravel(3)	Paved(4)	Paved(5)	Primitive(9)	Agency Total
New Lands	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Northern	0.0	0.0	0.0	2.6	0.0	0.0	2.6
Western	0.0	13.9	0.0	9.4	0.0	0.0	23.3
Eastern	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chinle	0.0	1.2	0.0	10.1	0.0	0.0	11.3
Ft. Defiance	0.0	1.0	0.0	8.7	0.0	0.0	9.7
NIIP	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Surface Total	0.0	16.1	0.0	30.8	0.0	0.0	46.9

Source: 2008 Navajo Region Road Inventory

# G. OTHER FEDERAL AGENCY ROADS

These roads are under federal agencies, e.g., National Park Service (NPS), BLM that own land/properties within the boundary of the Navajo Reservation. Of the total 37.2 miles, 12.3 miles are earth roads and 24.9 miles are paved roads. There are no roads under this category in Shiprock, NIIP and New Lands Agencies. Figure III-7 and Table III-8 depict roads under this category by agency in percent and mileage division.

Other Federal Roads
Total: 37.2 miles

Chinle
18.8, miles
51%

Ft. Defiance
0.1 miles
-0.3% Western
2.0 miles
5%

Eastern
16.3, miles
44%

Source: 2008 Navajo Region Road Inventory

Table III-8. Other Federal Agency Roads (in miles)

Agency	Proposed(0)	Earth(1)	Gravel(3)	Paved(4)	Paved(5)	Primitive(9)	Agency Total
New Lands	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Northern	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Western	0.0	0.0	0.0	2.0	0.0	0.0	2.0
Eastern	0.0	12.1	0.0	4.2	0.0	0.0	16.3
Chinle	0.0	0.2	0.0	18.6	0.0	0.0	18.8
Ft. Defiance	0.0	0.0	0.0	0.1	0.0	0.0	0.1
NIIP	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Surface Total	0.0	12.3	0.0	24.9	0.0	0.0	37.2

Source: 2008 Navajo Region Road Inventory

# H. OTHER ROADS

This category describes other private and public roads not included to any other categories previously described, such as petroleum and mining, and utility companies. There are only 0.8 miles of other roads in the Western Navajo Agency.

# CHAPTER IV - NAVAJO-BIA ROADS TRAFFIC DEMAND

## A. EXISTING TRAFFIC VOLUME

The Navajo-BIA road system is generally characterized as rural low volume roads. Out of a total of 6,147.9 miles of the Navajo-BIA roads, 46% or 2,831.4 miles have average daily traffic (ADT) volumes less than 250 vehicles per day (vpd), with 2,830.3 miles of these having an ADT volume between 50-249 vpd and 1.1 miles of these having an ADT volume less than 50 vpd. 28%, or 1,742.9 miles of the Navajo-BIA road system have ADT volumes between 250-9999 vpd, and 0.1%, or 4.9 miles have ADT volumes of 10,000 vpd and greater.

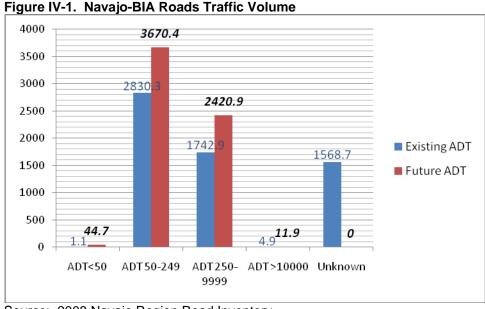
## B. TRAFFIC DEMAND FORECAST

# 1. Twenty-Year Traffic Volume

The 2008 Navajo Region Road Inventory Field Data Module (RIFDS) estimates a 2% annual traffic growth rate for all Navajo-BIA roads. Similarly the Arizona Department of Transportation (ADOT) also estimates and uses a 2% annual traffic growth rate for all state routes on the Navajo and Hopi reservations.

Based on this projected traffic growth, within the next 20 years 39%, or 2,420.9 miles, of Navajo-BIA roads will have ADT volumes between 250-9999 vehicles per day (vpd) and 0.2%, or 11.9 miles, will have ADT volumes of 10,000 vpd and greater. The majority, 60% or 3,715.1 miles, will have ADT volumes between 50-249 and 1%, or 44.7 miles, will have ADT volumes less than 50 vpd.

Figure IV-1 compares miles of Navajo-BIA roads with existing and twenty-year (20) projected ADT volumes (2007 NRRI). The graph shows a significant increase in the next 20 years in Navajo-BIA roads mileage with ADT volumes from less than 50, 50-250 vpd, 250-9999 vpd and those with ADT volumes of 10,000 vpd and greater.



Source: 2008 Navajo Region Road Inventory

IV-1

#### 2. **Estimate of Daily Person-Trips**

For planning and estimating purposes, it is assumed that drivers on Navajo-BIA roads follow rural vehicle occupancy patterns, with 1.5 persons per vehicle for passenger cars and one (1) person per vehicle for trucks. ADOT uses these same figures in its planning for state highways on the Navajo Nation.

#### 3. **Estimate of Current and Future Modal Split**

Modal split for Navajo transportation is virtually insignificant. Of the total 45,435 Navajo Nation residents commuting to work, 34,824 or 77% drove alone to work, 5,394 or 12% carpooled, 2,154 walked, and only 288 or 0.6% used transit to go to work (Census 2007, American Community Survey). Modal split is summarized in Figure IV-2. Similar percentages are expected for the future because of the Navajo Nation's rural setting and vast distance between communities.

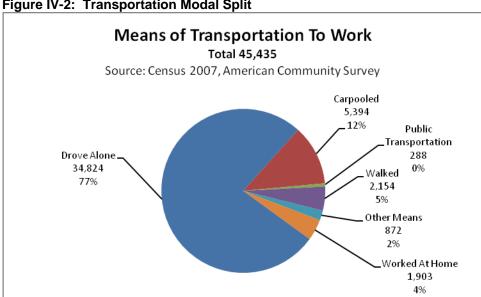


Figure IV-2: Transportation Modal Split

#### C. TRAVEL PATTERNS

Based on the Transportation Planning Program's origin-destination survey conducted in 2001, a Navajo family has an average of 1.98 cars per household. On a weekday, commuter/driving to work trips generates approximately 41% of trips; driving children to school 31%; and school buses (picking up school children from bus stops to school) make up another 28% of total trips.

On average, a Navajo family makes approximately eight trips a year to healthcare facilities, and five trips a month to nearby border towns (usually on the weekend).

# CHAPTER V - TRANSPORTATION NEEDS ASSESSMENT

# A. PLANNING METHODOLOGY

The Navajo Nation comprehensive Transportation Plan is the Navajo Nation's vision of future transportation development to meet and fulfill the Nation's long term transportation needs. The planning process and methodology used in this plan includes examination of tribal and IRR program goals and objectives, transportation planning and highway design criteria, and transportation issues to identify future transportation needs.

# 1. Transportation Goals:

- To provide safe and efficient transportation and public road access to and within the Navajo Reservation including improvement of overall road conditions, bridges, and reduction in the number and severity of traffic crashes.
- To develop the necessary transportation system to foster and support economic development and to increase employment opportunities.

# 2. Planning Guidelines:

In compliance with transportation planning regulations and procedures, including IRR transportation planning guidelines, current SAFETEA-LU funding levels for the IRR Program, highway design criteria in 81 IAM and the American Association of State Highway and Transportation Officials (AASHTO) procedures were used in the planning process and the needs assessment.

# 3. Transportation Issues:

- The Navajo Nation is the largest tribe in both land area and population, but due to inadequate funding for the Navajo IRR Program, seventy-six percent (76%) of the Navajo-BIA road system is unpaved.
- Community transportation survey respondents identified the following important topics (The survey results from the 143 respondents are included in Figure V-1 and individual questionnaire responses are included as Appendix A):
  - 1. Safety improvements were the highest transportation goal, ranked above economic development, access to recreation, connection to transit and connection to freight;
  - 2. Safety improvements (roadway striping, signage, traffic control, guard rail and street lights);
  - 3. Road improvements (paving existing dirt or gravel roads);
  - 4. Road maintenance (pothole repair and blading of dirt roads); and
  - 5. Bridge improvements.
- The poor condition of local roads, coupled with increased traffic and safety issues have become a primary concern for chapters, school administrators, health care providers, and tribal and transportation leaders. Lack of paved roads has been identified as affecting quality of life.

Together, the Navajo Nation's transportation goals, planning guidelines and tribal transportation issues above, and road inventory and other planning data form the basis for determining transportation needs. The 2008 Navajo Region Road Inventory Field Data System (RIFDS) data, Navajo Nation Census 2000 demographic data, 1999-2007 crash data, and other pertinent planning information were used to analyze and identify the Navajo Nation's 20 year transportation needs in a systematic way. The planning/transportation needs assessment process is summarized in Figure V-2 as follows:







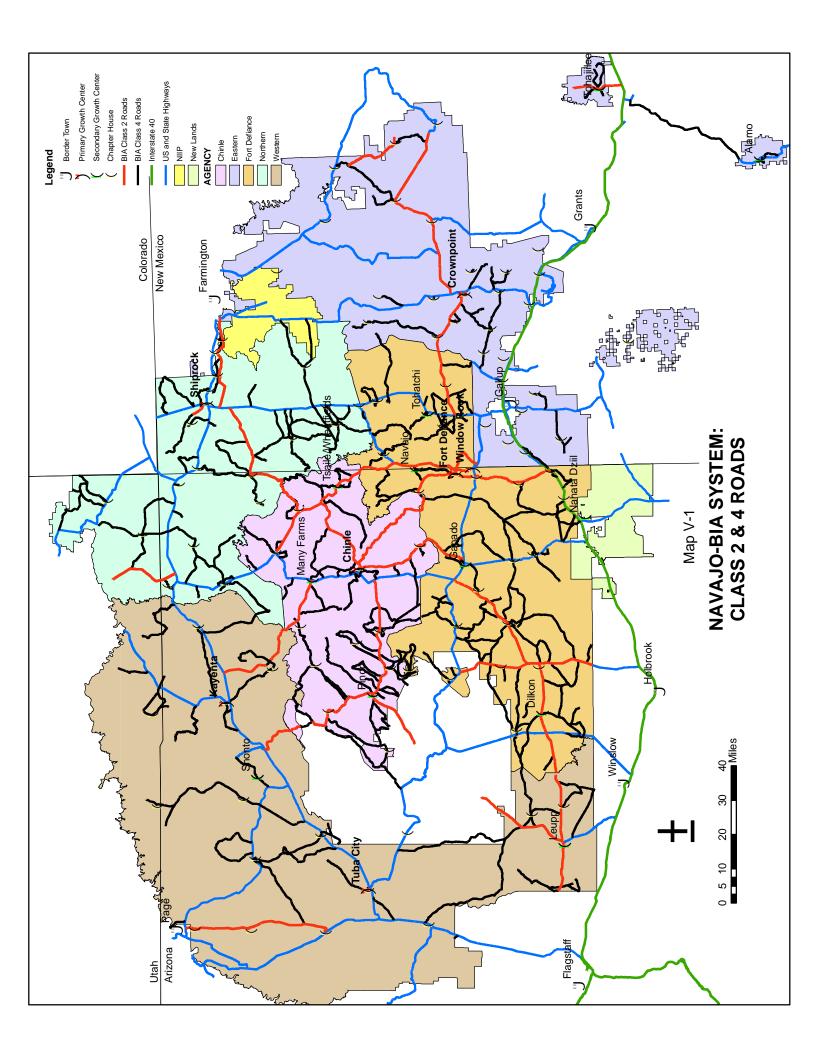


Figure V-2. Planning / Needs Assessment Process

# PLANNING / NEEDS ASSESSMENT PROCESS

#### **Planning Criteria: Transportation Needs:** 1. Highway Geometric Design Deficiencies Transportation Goals: To provide safe and efficient Transportation system 2. Network Connectivity Needs: · To provide adequate community Access To foster and support economic development 3. Pavement Deficiencies 4. Safety Needs **Planning Guidelines** IRR Transportation Planning Guidelines 5. Chapter House Access Needs • 57BIAM & AASHTO Highway Design Guidelines • TEA -21 Statewide & Metropolitan Transportation Planning Guidelines 6. Growth Centers Street Needs 7. Community and Economic **Development Transportation Needs** Transportation Issues: • Poor road conditions, 75% of BIA 8. Scenic Byways, Tourism, and roads are unpaved Recreation Lack of paved roads to foster economic development High traffic volume & congestion in growth centers & on class 2 roads • High accidents occurrences 9. Intermodal Transportation Needs Unpaved school bus routes 10. Other Transportation Needs: 11. Cultural and Environmental Considerations







## B. NAVAJO-BIA ROAD ISSUES AND NEEDS

The Navajo-BIA road issues and needs are summarized in the next eleven sections, described as Needs 1 through 11. The needs were developed based on available data sources and public outreach.

# **NEED 1: Highway Geometric Design Deficiencies**

To meet the Navajo IRR program objectives, design and construction of roads, bridges, and other transportation facilities must be done to current acceptable engineering standards for anticipated 20-year traffic volume. Based on the highway geometric design guidelines and 20-year projected traffic volume (Table V-1), of the total Navajo-BIA roadway system, 97% of total Navajo-BIA road system or 5,955.4 miles have geometric design deficiencies (Table V-2) including upgrades in road geometry, surfacing, and/or highway capacity.

Table V-1. Geometric Design Standards

ADS	Future	Functional	Needs Surface	Needs	Needs	Needs Shoulder
	ADT	Classification	Upgrade	Shoulder Widening	Roadway Widening	Type Upgrade
1,2,3	N/A	1-Major Arterial	Surface Type<5	Shoulder Width<6 ft	Roadway Width <66 ft	Shoulder Type<3
4,5,6	>=400	2-Rural Minor	Surface Type<5	Shoulder Width<6 ft	Roadway Width < 36 ft	Shoulder Type<3
7,8,9	<400	2-Rural Minor	Surface Type<4	Shoulder Width<4 ft	Roadway Width < 32 ft	Shoulder Type<3
	>=400	4-Rural Major	Surface Type<5	Shoulder Width<4 ft	Roadway Width < 32 ft	Shoulder Type
		^ " · ´	Surface Type<4			<3 for ADS10;
	>250<400					<2 for ADS11;
						<1 for ADS12;
	50-250	4-Rural Major	Surface Type<3	Shoulder Width<4 ft	Roadway Width < 32 ft	Shoulder Type
10,11,12		- " -				<3 for ADS10;
						<2 for ADS11;
						<1 for ADS12;
	<50	4-Rural Major	Surface Type <1	Shoulder Width<4 ft	Roadway Width < 32 ft	Shoulder Type
		^ " ·				<3 for ADS10;
						<2 for ADS11;
						<1 for ADS12;
	>400	5-Rural Local	Surface Type < 4	Shoulder Width<2 ft	Roadway Width < 28 ft	Shoulder Type
						<3 for ADS13;
						<2 for ADS14;
						<1 for ADS15;
	50-400	5-Rural Local	Surface Type <3	Shoulder Width<2 ft	Roadway Width < 28 ft	Shoulder Type
13,14,15						<3 for ADS13;
						<2 for ADS14;
						<1 for ADS15;
	<50	5-Rural Local	Surface Type <1	Shoulder Width<2 ft	Roadway Width < 28 ft	Shoulder Type
						<3 for ADS13;
						<2 for ADS14;
						<1 for ADS15;
	>=400	6-City Minor	Surface Type < 5	N/A	Roadway Width	N/A
	>250<400	7-City Collector	Surface Type<4		<50 for ADS 16,	
		3-City Local			<(21-38) for ADS 17 or 18	
	50-250	6-City Minor	Surface Type <3	N/A	Roadway Width	N/A
16,17,18		7-City Collector			<50 for ADS 16,	
		3-City Local			<(21-38) for ADS 17 or 18	
	Under 50	6-City Minor	Surface Type <1	N/A	Roadway Width	N/A
		7-City Collector			<50 for ADS 16,	
		3-City Local			<(21-38) for ADS 17 or 18	

Source: 25 CFR Part 170, Table 1 – Adequate Standard Characteristics, 7/19/2004, page 43123.

Notes: Surface Type Codes: 6, 5, 4=Paved; 3=Gravel; 1=Earth;

Shoulder Type Codes: 4=Curb; 3=Paved; 2=Gravel; 1=Earth.







Table V-2. Miles of Navajo-BIA Roads with Geometric Deficiencies/Total NEED 1

1 45.0	e v-z. Willes Ol Navaj	<u> </u>		Miles of Roads	Miles of Roads				
			Miles of Roads	Needing Only	Needing Suface				
			Needing Only	Roadway	Imp & Roadway		Total By		
ADS	CLASS	FADT	Suface Imp	Widening	Widening	Sub-Total	Class		
1		N/A	0.9	0.1	0.3	1.3			
2	1-Major Arterial	N/A	2.0	0.8	0.0	2.8	4.1		
3		N/A	0.0	0.0	0.0	0.0			
4			5.9	13.8	54.0	73.7			
5		>=400	8.7	184.0	397.1	589.8			
6	2-Rural Minor Arterial		5.3	11.5	2.7	19.5	754.6		
7	2-Ruidi Willion Arterial		0.0	0.0	0.0	0.0	754.0		
8		<400	0.0	24.3	23.0	47.3			
9			0.0	0.0	24.3	24.3			
10		>250	17.5	15.0	138.2	170.7			
10		50-250	1.8	5.2	365.8	372.8			
11		>250	38.6	136.9	988.7	1164.2			
11	4-Rural Major Collector	50-250	33.7	82.0	1668.6	1784.3	3757.0		
11		<50	0.0	1.1	0.0	1.1			
12		>250	1.9	0.0	76.6	78.5			
12		50-250	0.0	0.0	185.4	185.4			
13		>400	0.1	5.5	43.1	48.7			
13		50-400	125.3	6.6	18.1	150.0			
14	5-Rural Local	>400	2.9	28.5	72.0	103.4	1402.1		
14	5-Kulai Locai	50-400	68.5	14.7	806.2	889.4	1402.1		
15		>400	0.0	0.0	8.4	8.4			
15		50-400	0.0	0.0	202.2	202.2			
16	6-City Minor Arterial	N/A	0.0	0.9	2.6	3.5	3.5		
17	7-City Collector	N/A	0.0	0.0	0.0	0.0	0.0		
18	3-City Local	N/A	8.8	23.5	1.8	34.1	34.1		
	Grand Tota								

Source: 2008 Navajo Region Road Inventory.







# **NEED 2: Network Connectivity Needs**

BIA Class 1 (Major Arterial), Class 2 (Rural Minor Arterial) and Class 4 (Rural Major Collector) roads together work to provide network connectivity from Class 5 (Rural Local) roads to population centers, state road systems and regional network. However, the connectivity of Navajo-BIA roads system is hardly efficient due to the fact that much of these roads are unpaved: 11% of the Navajo-BIA Class 2 roads; 83% of Class 4 roads; and 93% of Class 5 road are unpaved (Table V-3a). This can be easily illustrated by comparing Map V-1, showing all Class 2 & 4 roads as they should have functioned with Map V-2, showing actual paved Class 2 & 4 roads. Missing roads or gaps in Map V-2 clearly show that the paved segments are not continuous throughout the network thus demonstrates poor continuity or inefficiency of the network when the arterials and major collectors are not paved.

Table V-3a. Navajo-BIA Roads' Surface Type By Class

Surface Type	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Surface Total
Proposed	0.0	0.0	0.0	8.5	0.0	0.0	8.5
Earth	0.0	85.0	5.8	2901.7	1210.5	0.0	4,203.0
Gravel	0.0	1.4	2.0	89.5	12.8	0.0	105.7
Paved (4)	3.2	465.0	45.3	534.4	62.7	3.5	1,114.1
Paved (5)	0.9	264.2	5.0	91.9	18.3	0.0	380.3
Primitive	0.0	0.4	0.0	172.2	119.1	0.0	291.7
Unknown	0.0	0.0	0.0	29.2	15.4	0.0	44.6
Class Total	4.1	816.0	58.1	3.827.4	1.438.8	3.5	6.147.9
% Unpaved By Class		11%	13%	83%	93%	0%	75%
% Paved By Class	100%	89%	87%	16%	6%	100%	24%

Source: 2008 Navajo Region Road Inventory.

Map V-3 illustrates and Table V-3a lists, the Class 2 and 4 roadway segments that are currently unpaved and carry more than 250 ADT, which would meet the criteria under the 81 IAM to be paved.1 These road sections, although unpaved, have high traffic volume meaning the public is using them regularly because there are no other alternative routes. As shown, there are 19.1 miles of unpaved Class 2 roads that currently carry over 400 ADT, and 33.8 miles that carry over 250 ADT. Of the unpaved Class 4 roads, there are 140.9 miles that currently carry over 400 ADT and 298.2 miles that carry over 250 ADT. At minimum, these roads should be paved to improve the overall Navajo-BIA road connectivity.

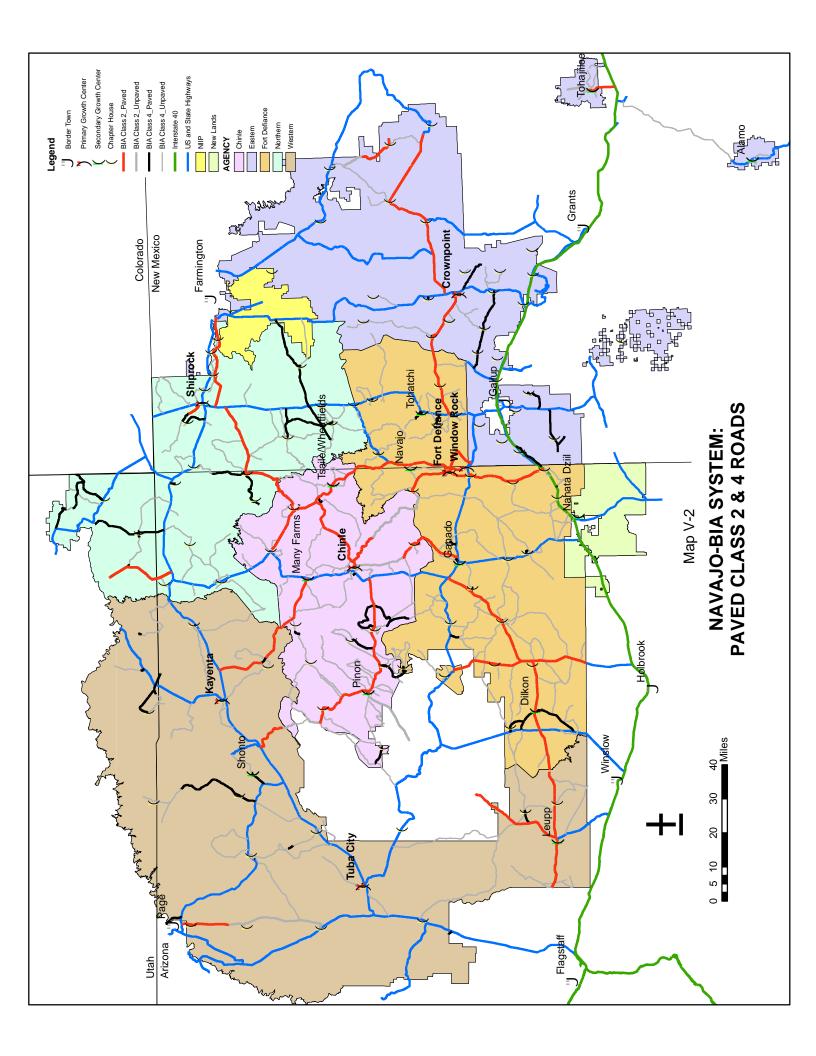
<sup>1 57</sup> BIAM, Supplement 4, Sec. 2.2B (3), Surface improvement criteria: (1) All class 2 and 4 roads with less than 50 ADT (20-year projected) will not be constructed with gravel surfacing; (2) All class 2 and 4 roads with less than 250 ADT (20-year projected) will not be constructed with paved surfacing.

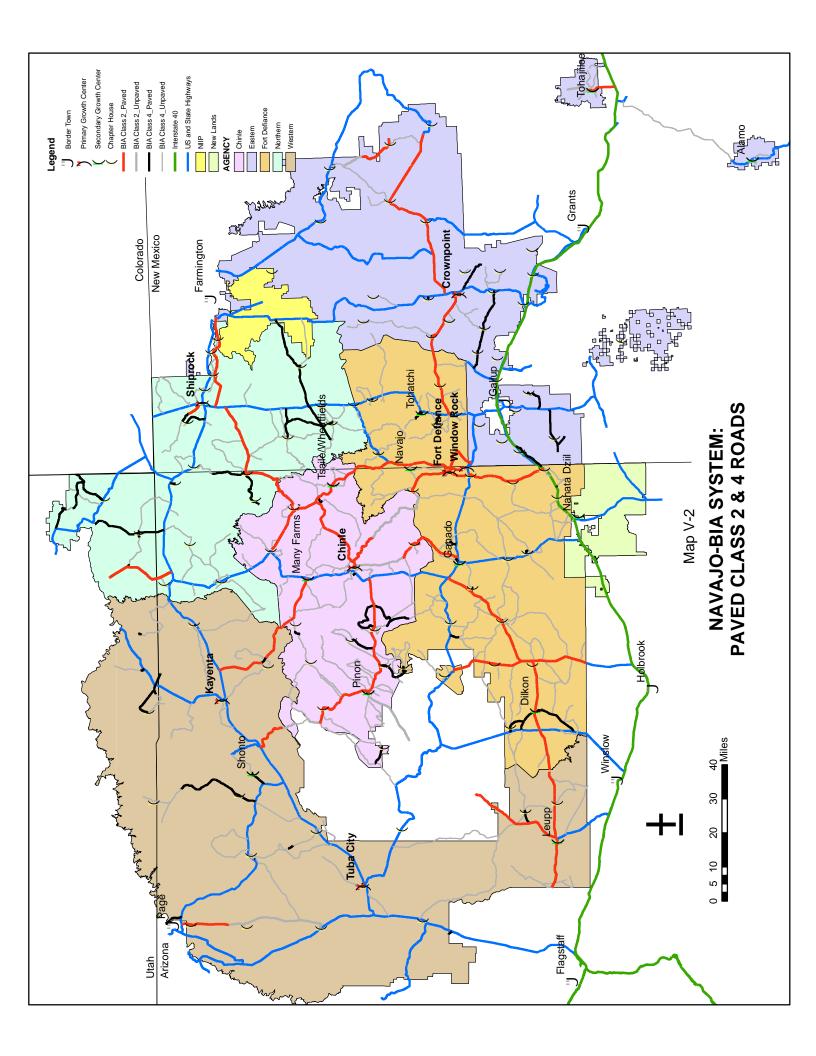


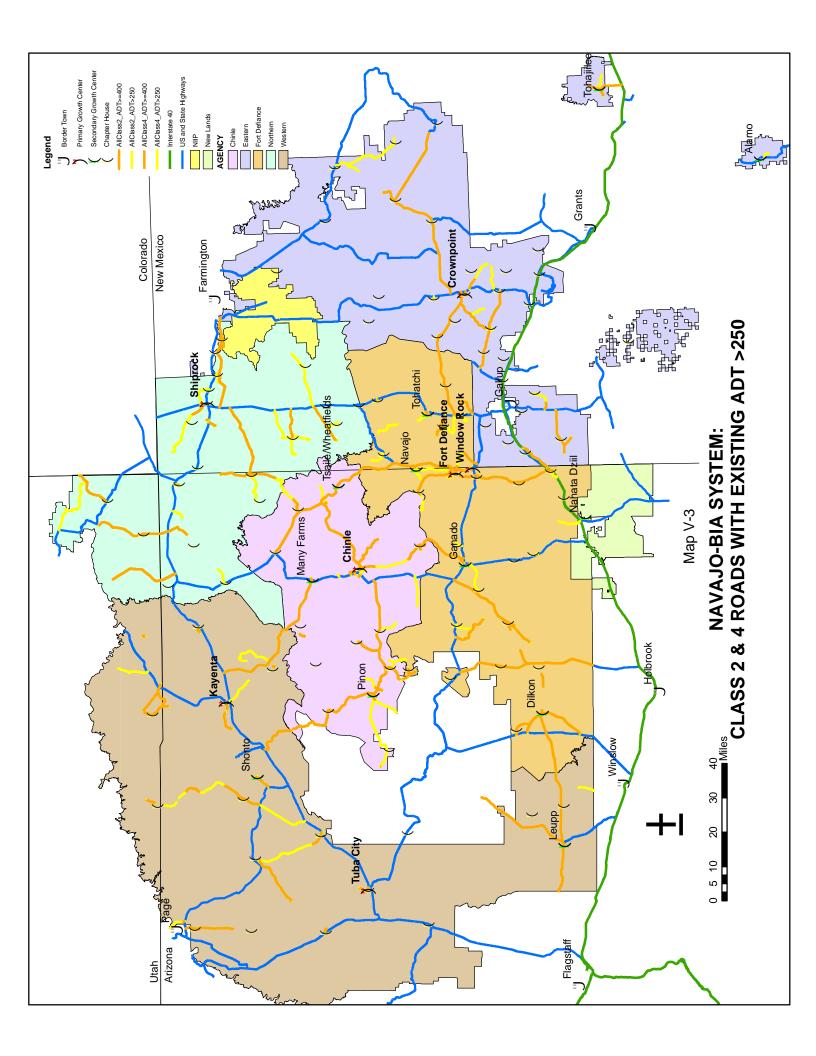












Existing Navajo-BIA Class 2 roads that are already paved, and are nearing or have exceeded their design life and need to be re-constructed are included in the Need (1) category: Highway Geometric Design Deficiencies, for Class 2 roads (Table V-2).

Table V-3. Unpaved Navajo-BIA Class 2 Road Segments with 20-Year ADT > 250 Meeting 81 IAM

**Requirements to Be Paved** 

requirements to be raved							
Agency	Route	BMP	EMP	Miles	Existing ADT	20- Year ADT	Existing Surface Type
Western	N2	30.1	32.3	2.2	1,211	1,798	Earth
Western	N20	0	4.5	4.5	550	817	Earth
Western	N20	24.4	29.9	5.5	170	252	Earth
Western	N41	33.4	34.8	1.4	543	806	Earth
Eastern	N56	11.3	13.7	2.4	1,551	2,303	Earth
Eastern	N474	0	6.5	6.5	253	376	Earth
Chinle	N4	1.3	19.5	18.2	367	545	Earth
Chinle	N7	13.7	32.6	18.9	241	358	Earth
Chinle	N13	4.8	9.6	4.8	370	549	Earth
Chinle	N27	22.4	36.8	14.4	415	616	Earth
Chinle	N41	21.3	25.6	4.3	543	806	Earth
Chinle	N41	30.1	32.5	2.4	543	806	Earth
Ft. Defiance	N7	32.6	36.8	4.2	258	383	Earth
Total:		•		89.7			

Source: 2008 Navajo Region Road Inventory

## **Proposed Navajo-BIA Class 2 Roads:**

The Navajo Reservation is large with few paved roads. Map V-1 shows Navajo-Class 4 roads that are regularly used by the locals to access state highways. N8031 and N8027 provide a shortcut from Chinle to Tuba City through Pinon; N46 connects N9 to US550 at Counselor; and N55 connects Alamo to I-40. Pinon and Alamo are Navajo Secondary Growth centers. This plan proposes to reclassify these roads, which are identified in Table V-4 to Class 2 since they connect population centers to state roads, thus meeting BIA/FHWA's class 2 road definition. Reclassifying and paving these roads will improve the overall efficiency of the road network, reduce travel time and conserve fuel. Table V-5 summarizes the total Class 2 road needs.

Table V-4. Proposed Navajo-BIA Class 2 Roads

	B . N . I . ii	5145	5145		Existing	20- Year	Existing Surface
Agency	Route No., Location	BMP	EMP	Miles	ADT	ADT	Type
CHL	N8031* from Pinon to N8027 east of Hard Rock.	0	23.1	23.1	264	392	Earth
CHL	N8027, from N8031 to AZ264 at Dennetbito Junction	0	7	7	229	340	Earth
ENA	N46* from Pueblo Pintado to Counselor.	0	19.8	19.8	390	579	Earth
ENA	N55* from Alamo to I-40	0	40.1	40.1	63	94	Earth
Total:	•		•	90		•	•

Table V-5. Total Class 2 Road Needs

Transportation needs	Total Miles
To pave existing unpaved Navajo-BIA Class 2 roads	89.7
To pave proposed Class 2 roads	90.0
Need 2. Total	179.7







## **NEED 3: Pavement Deficiencies**

Of the total 6,147.9 miles of Navajo-BIA roadways, 24% or 1,494.4 miles are paved. To meet the Pavement Management System (PMS) requirement, pavement deficiencies of Navajo BIA road sections were identified based on BIADOT wearing surface or pavement rating standards (Table V-6). Per the 2008 inventory, a total of 1,313.8 miles of Navajo BIA paved roads have pavement and/or design deficiencies and require reconstruction of the roadway (Table V-7). There are 1.3 miles of Navajo BIA paved roads that have moderate pavement deficiencies and require pavement rehabilitation, while 26.3 miles require minor rehabilitation. A total of 153.0 miles have slight deficiencies or are in good surface condition and only require routine maintenance to extend the life of their pavement.

Total cost to improve pavement deficiencies for all Navajo-BIA road classes (Table V-6) is \$1.4 billion.

**Table V-6. Pavement Rating Standards** 

Pavement Rating (PCI)	Roadbed Condition (RB)	Improvement Criteria	Improvement Needs	
0 - 9 Very Poor	3 - Min built-up roadbed with inadequate drainage and alignment	PCI < 40 or RB <5	December	
10 - 39 Poor	4 - A designed and constructed roadbed with some drainage and alignment		Reconstruction	
40 - 50 Fair	5 - A roadbed constructed to adequate design standards	PCI = 40-50 and RB >=5	Rehabilitation	
51 - 69 Good	6 - A roadbed constructed to adequate design standards with curb and gutter on one side	PCI = 51-69 and RB >= 5	Minor Rehabilitation	
>=70 Very Good	7 - A roadbed constructed to adequate design standards with curb and gutter on both sides	PCI >= 70 and RB >= 5	Maintenance Only	

Source: 2007 RIFDS Coding Guide - Pavement Rating and Roadbed Condition standards.

Table V-7. Miles of Navajo-BIA Roads with Pavement Deficiencies

	PCI<40 and RB<5, Need Reconstruction for	RB<5,	PCI<40,		PCI=51-69 and RB>=5.	PCI>=70 and RB>=5,
Road Class	Geometric Design and Pavement Deterioration	Need Reconstruction for Geometric Design	Need Reconstruction for Pavement Deterioration	PCI=40-50 and RB>=5, Need Rehabilitation	Need Minor Rehabilitation	Need Maintenance Only
1	0.5	3.2	0.0	0.0	0.4	0.0
2	325.3	295.4	0.5	0.0	9.1	98.9
3	22.5	14.1	0.2	0.0	7.9	5.6
4	269.2	298.1	0.3	1.3	8.9	48.5
5	18.0	63.0	0.0	0.0	0.0	0.0
6	0.6	2.9	0.0	0.0	0.0	0.0
Total	636.1	676.7	1.0	1.3	26.3	153.0
Percent	42.6%	45.3%	0.1%	0.1%	1.8%	10.2%

Source: 2008 Navajo Region Road Inventory.

# **NEED 4: Safety**

BIA policy requires that IRR program development<sup>2</sup> include identification of sites with high crash potential so they can be brought to the attention of road design engineers. Another requirement is identification of sites with high crash occurrences so that safety projects or a highway safety program can be developed to help reduce the number of crashes.

The 2007 Motor Vehicle Crash Facts prepared by ADOT reports that Native Americans made up 15.34% of total crash fatalities (the third largest group after White and Hispanic), while their population was only 5.25% of Arizona. This indicates the seriousness of traffic crashes and safety issues on the Navajo Nation.

57BIAM, Road Construction-Development of Program, Sec. 6.11 (B-D)







In the years 1999-2007, a total of 11,273 traffic crashes occurred on the Navajo Nation. The majority of the crashes happened on state and Navajo-BIA roads. As summarized in Figure V-3, 52.3% or 5,899 crashes occurred on state highways; 41.4% or 4,669 crashes on Navajo BIA roads; 3.7% or 414 crashes on county roads; 1.6% or 182 crashes on other public roads; and 0.8% on other tribal and government program roads.

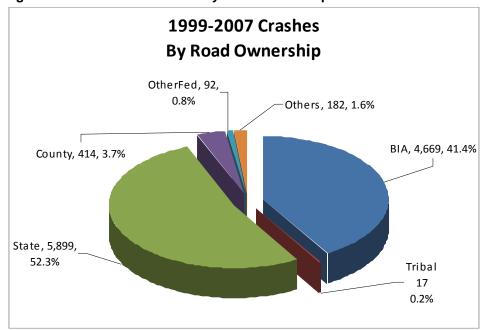


Figure V-3. 1999-2007 Crashes by Road Ownership

When compared to the 1992-1996 statistics (an average of 991 crashes annually), the crash total for 1999-2007 (1,253 crashes annually) has increased by 26%.

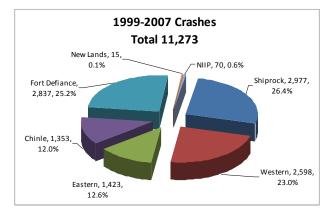


Figure V-4. 1999-2007 Crashes by Agency

Figure V-4 identifies that from 1999-2007, the highest number of crashes (26.4%) occurred in Shiprock Agency; 25.2% in Fort Defiance; 23.0% in Western; 12.6% in Eastern; 12.0% in Chinle; 0.6% in NIIP; and 0.1% in New Lands.

### **Statistical Summary:**

- Fatality: 4.7% of the 1999-2007 traffic crashes resulted in fatalities. Navaio fatality rates were 6.9 times those of Arizona (0.68% in 2007).
- Injury: 41.3% resulted in injuries. The Navajo rate of injuries was 10.5% higher than the Arizona rate (30.85%).
- Number of Vehicles Involved: 54.9% were one-vehicle crashes, 42.5% were two-vehicle crashes, the remaining 2.6% involved three or more vehicles.
- Weather: 85.6% occurred in clear weather. Snow and rain occurred for 5.9% and 3.1% of the crashes respectively.









- Road Condition: 72.9% occurred on dry road condition. 8.2% occurred on snow packed roads. Loose sand and gravel, and wet road conditions occurred for 5.1% and 4.7% of crashes, respectively.
- Cause: As shown in Figure V-5, Driver's inattention, DUI, speeding, and animals on road were major causes: 19.7%, 16.5%, 15.9%, and 13.8% of total crashes respectively. Only 2.4% involved road defects, and 1.2% involved pedestrian error. Again when compared to statewide Arizona statistics: Navajo crashes that hit an animal were 2.5 times the rate for all rural areas (5.8%), and DUI crashes were 2.9 times the statewide Arizona rate of 5.62%.

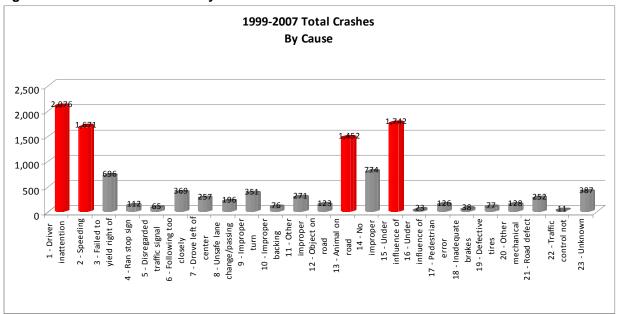


Figure V-5. 1999-2007 Crashes by Cause

#### **Crash Location:**

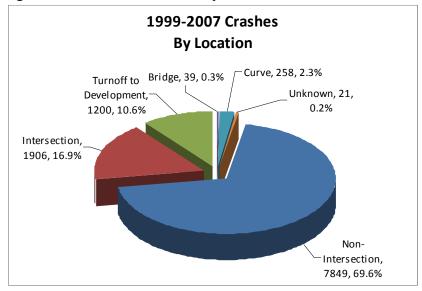
As shown in Figure V-6, of the total 11,273 crashes that have occurred between 1999 and 2007, 7,849 or 69.6% were non-intersection crashes, 1,906 or 16.9% occurred at road intersections, and 1,200 or 10.6% occurred at turnoffs or access to development (e.g., stores, schools, chapter houses, clinics, government offices, etc.).







Figure V-6. 1999-2007 Crashes by Location



Crash rates are calculated using the following formula:

Crash Rate =

Number of Crashes x 1,000,000

Average Daily Traffic1 (ADT) x No. of Days2 x Road Length (mi)

#### Notes:

- \* Crash rate formula utilized by Arizona Department of Transportation
- 1 Average Daily Traffic volume was acquired from the 2008 Navajo Region Road Inventory Database 2 No. of Days = 365 x 9

Using the crash rating system (Table V-8), safety of Navajo Nation roads and intersections can be identified and rated accordingly.

Table V-8. Crash Rating System

Crash Rate	Rating
> 4.0	Very High
2.01 – 4.0	High
1.75 – 2.0	Moderate
1.16 – 1.74	Low
0 – 1.15	Very Low

### Safety Issues:

## **Dangerous Road Sections:**

The most dangerous road sections on the Navajo Nation occurred in the major growth centers, on major State, Navajo-BIA and county roads (Table V-9). In the urbanized areas: driver inattention, failure to yield right of way, speeding and following too close were the major causes of the crashes. High traffic volume coupled with excessive access with turning vehicles and congestion in the urbanized areas may have also contributed to these crashes. Appropriate speed limits, road widening, better lane marking, raised medians, sidewalks and street lights are recommended for the growth center areas. Other road sections had a high percentage of crashes caused by animals on road. Fencing along these road sections is highly recommended. Map V-4 identifies road segments that warrant additional study to determine proper safety recommendations.







Table V-9. Road Sections with High Crash Rates US/State Routes:

03/318	05/State Routes:							
Route	BMP	EMP	ADT	Number of Crashes	Crash Rate			
US64	22	32	7800	201	0.78			
US160	382	395	4150	190	1.07			
US163	393	399	2186	228	5.29			
US191	409	411	1326	20	2.30			
US191	447	468	3470	272	1.14			
AZ264	435	477	4761	607	0.92			
US491	89	95	6500	139	1.08			

Source: Navajo Nation 1999 - 2007 Crash Data

#### Navajo-BIA Routes:

Route	ВМР	EMP	ADT	Number of Crashes	Crash Rate
N2	1	8	211	18	3.71
N7	0	3	12780	81	0.64
N12	22	29	2967	101	1.48
N36	12	28	3200	166	0.99

#### **Dangerous Road Intersections:**

The road intersections with the highest number of crashes on the Navajo Nation were primarily located in major Navajo growth centers (Table V-10). These fifteen intersections within Navajo Nation experienced a high number of crashes (>20) from 1999-2007, and all but one are located within the segments identified in Table V-9 Map V-4 shows road segments and Map V-5 identifies the intersections should be further studied to identify the appropriate safety treatments required to mitigate the issues.

Table V-10. Road Intersections with High Number of Crashes

#### **State Routes:**

				Number of
Route	Community	MP	ADT	Crashes
US64/US491(SW)	Shiprock	21.94	22923	101
AZ264/N12	Window Rock	475.50	10616	69
US64/US491(NE)	Shiprock	22.80	10278	53
US160/AZ264	Tuba City	321.80	13989	45
AZ264/N112	St. Michaels	473.61	10616	43
US191/N7	Chinle	447.83	9917	41
US160/US163	Kayenta	393.55	2264	41
AZ264/US191S	Ganado	446.90	6352	34
US491/N531	Shiprock	92.20	10278	33
AZ264/N15/US191	Ganado	441.01	2312	21
US64/POE Access	Shiprock	22.50	22923	21

Source: Navajo Nation 1999 – 2007 Crash Data

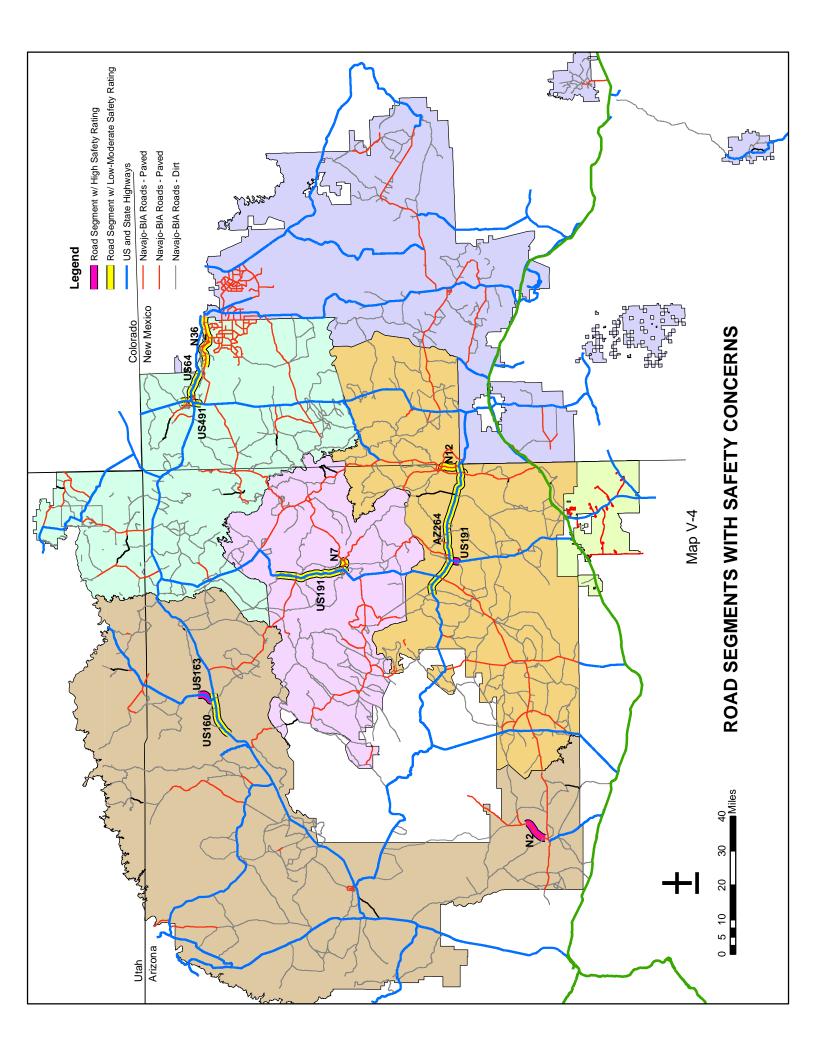
#### Navaio-BIA Routes:

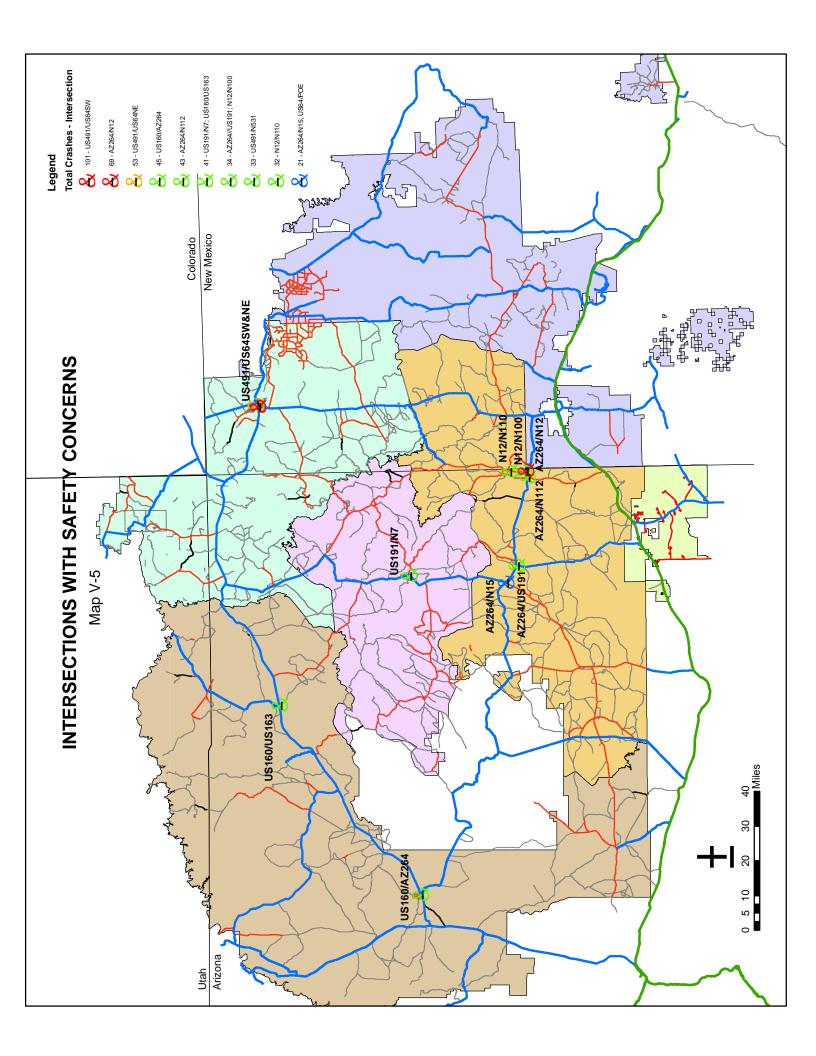
Navajo BIA Rodico.							
Route	Community	MP	ADT	Number of Crashes			
N12/N100	Window Rock	24.1		34			
N12/N110	Fort Defiance	28.4		32			











## **Access Management:**

1,200 crashes or 10.6% of all crashes occurred at turnoffs or access to development (stores, schools, etc). The Navajo Nation growth centers commercial strips were high among places where crashes occurred. Traffic congestion at multiple access points to convenience stores, fast food restaurants, banks, and shopping centers seemed to be a cause of crashes on main highways within the Growth Center communities. Lack of street lights and access control seemed to be a cause of crashes in these communities. Table V-11 shows commercial strips in the growth center areas where high number of crashes occurred.

Table V-11. Locations of Frequent Crashes at Development Access

Agency	Community	Route No.	ВМР	EMP	No. Crashes
N35	Chinle	US191	446.7	448.2	58
N35	Chinle	N7	0.0	2.7	54
N36	Ganado	AZ264	446.2	447.1	29
N33	Kayenta	US163	393.5	396.0	148
N33	Kayenta	US160	391.0	394.6	34
N32	Shiprock	US491	90.4	93.5	122
N32	Shiprock	US64	21.0	24.4	256
N36	St. Michaels	AZ264	474.8	476.0	74
N36	St. Michaels	AZ264	472.4	473.0	21
N33	Tuba City	N1017	0.0	1.6	32

Turns offs to schools, chapter houses, and tourist attractions were other locations where crashes occurred frequently. NHA housing access roads also produced significant numbers of crashes. (Please note that this plan classifies crashes at turnoffs to NHA housing sites as intersection crashes.) Lack of accelerating and decelerating lanes and poor lighting may have contributed to the cause of these crashes.

#### **Roads with Animal Crash Problems:**

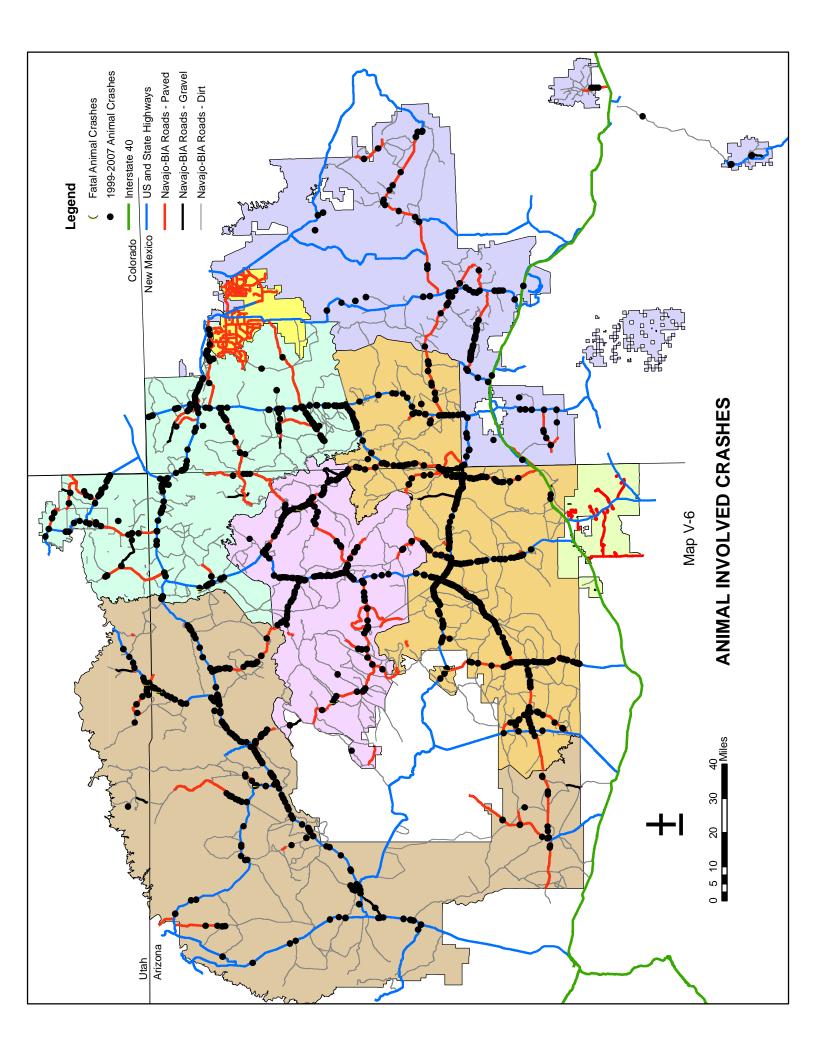
Animals (cattle on roadway) appear to be a significant cause of crashes on Navajo Nation roads. 1,452 crashes or 13.8% of all crashes on the Navajo Nation roads were caused by the presence of animals on roadways. This figure is 2.4 times that of all animal-related crashes in rural Arizona in 2007. Of the 1,452 crashes, eight were fatal, as shown in Map V-6. Animals on roadways contributed to high crash occurrences. The Navajo Nation's open range policy must be revisited when planning safety improvements on Navajo IRR roads. Even state highways, which are normally fenced, become crash-prone because cattle owners tend to let their cattle graze the right-of-way. ROW fencing and cattle guards along road sections with high animal-on-road crashes should be installed. Regular repairs and maintenance of ROW fence and cattle guards are needed to prevent crashes.

ADOT has identified that animal fencing safety improvements should be installed on US Route 191 north of Chinle. It is critical that a collaborative approach between the states and Navajo DOT be used to ensure that any funding, particularly for safety and capacity upgrades and modifications, is used on long-lasting projects.





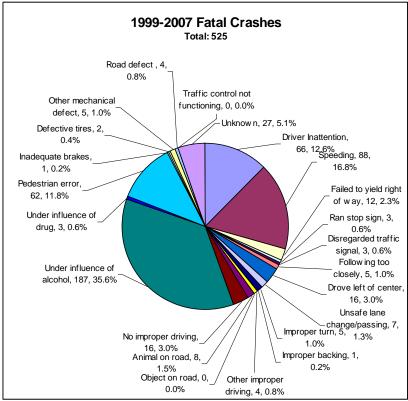




#### **Road Sections with Fatal Crashes:**

A total of 525 crashes or 4.6% of all crashes resulted in fatalities. Figure V-7 shows DUI related crashes caused 187 or 35.6% of fatal crashes; speeding caused 88 or 16.8%; driver inattention caused 66 or 12.6%; and pedestrian error caused 62 or 11.8%. Taken together, these four causes accounted for over 76% of all Navajo Nation traffic fatalities. Most fatal crashes occurred on State highways and major Navajo-BIA roads where speed and traffic volume may have been the contributing factors.

Figure V-7. 1999-2007 Fatal Crashes



In growth centers, DUI and pedestrian error seem to be the significant contributing factors. The communities' increasing demographics suggest monitoring speed limits, possibly installing crosswalk marking and warning signs and enhanced police enforcement. Table V-12 identifies routes where major fatal crashes occurred. (Map V-7 shows all fatal crash locations). Table V-13 identifies the fatal crash locations which involved pedestrian errors and may need additional pedestrian crossing improvements.

**Table V-12 Major Fatal Crashes** 

No. of Fatal Crashes	Route No.	Cause
55	US160	18-DUI, 11-Driver Inattention, 7-Unknown
50	US491	20-DUI, 8-Speeding
41	AZ 264	11-DUI, 6-Ped Error, 5-Speeding
35	US 191	9-DUI, 8-Driver Inattention, 6-Speeding
27	N 12	8-DUI, 4-Driver Inattention, 4-Speeding
26	N 26	12-DUI, 7-Driver Inattention, 4-Speeding
20	US 163	6-DUI, 4-Unknown, 3-Ped Error
20	NM 64	6- Ped Error, 4-DUI
18	US 89	5-DUI, 3-Driver Inattention, 3-Speeding
16	N 36	7-DUI, 4-Speeding, 3-Ped Error
14	N 98	7-DUI, 4-Speeding







Table V-13. Potential Sidewalk and Pedestrian Crossing Needs

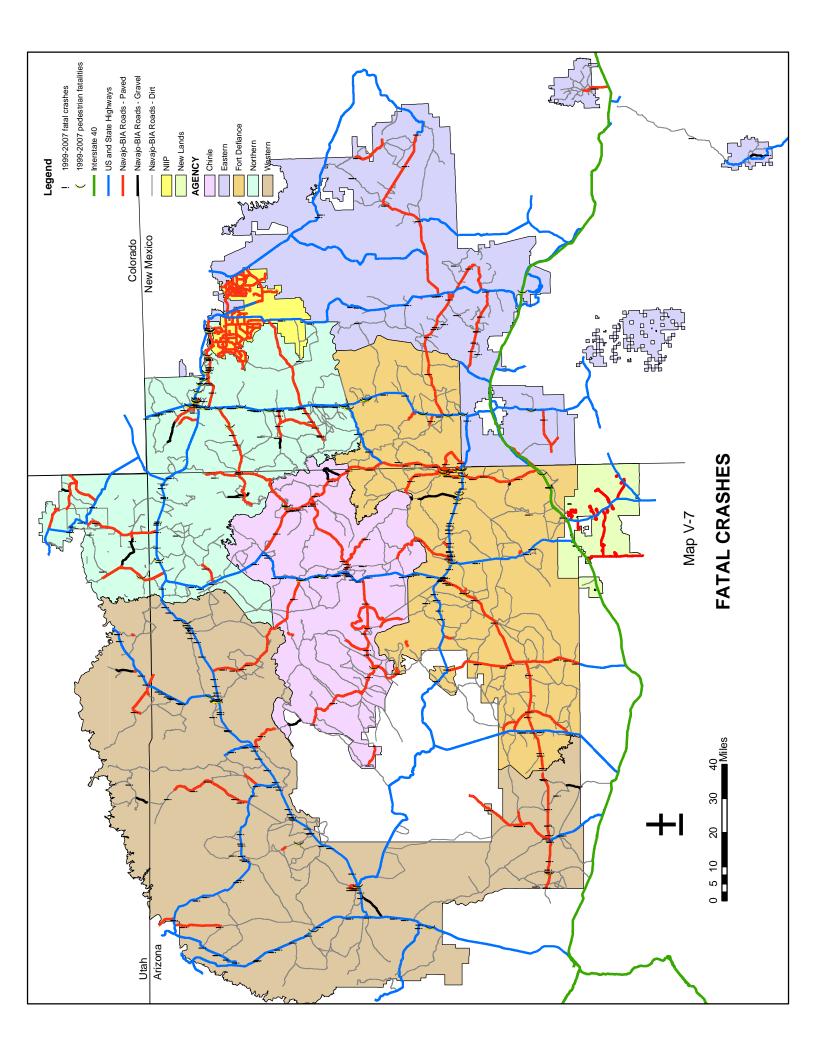
Agency		Route #	trian Crossing Needs Locations	MP
N34	1	0	Baca	0
N32	1	N12	Mexican Water	3
N36	2	N12	St. Michaels	24.0-24.8
N36	1	N12	Ft. Defiance	28.4
N35	1	N13	Lukachukai	2.2
N33	1	N15	Leupp	5.5
N33	1	N21	Tonalea	5
N34	1	CR34	Bread Springs	
N32	1	N36	Nenahnezad	17.2
N32	2	N36	Upper Fruitland	25.3 -25.5
N36	1	I-40	Lupton	356
N35	1	N59	Many Farms	0.14
N32	3	NM64	Shiprock	23.6-24.2
N32	3	NM64	Hogback	26.8-30.7
N35	1	N65	Whippoorwill	10.3
N33	1	US89	Cameron	462
N33	1	US89	Bodaway	498.4
N36	1	N100	St. Michaels	
N36	2	N112	Ft. Defiance	5.8-6.47
N34	1	NM122	Baca	10.94
N32	1	NM134	Sheepsprings	1.2
N36	1	N151	Steamboat	0
N33	1	US160	Deenhotso	418.5
N32	1	US160	Red Mesa	441.5
N33	3	US163	Kayenta	394-396.6
N36	1	US191	Wide Ruin	
N35	1	US191	Chinle	455
N36	1	AZ264	Ganado	446.9
N36	2	AZ264	Kinlichee	466.0-467.5
N36	3	AZ264	St. Michaels	473.61-475.43
N32	1	N362	Nenahnezad	1.2
N34	1	US491	Rock Springs	9.2
N36	1	US491	Twin Lakes	13.6
N36	1	US491	Tohatchi	21.06
N32	1	US491	Sheepsprings	48.2
N36	3	US491	Naschitti	41.1-41.8
N32	2	US491	Sanostee	70.1-78.6
N32	5	US491	Shiprock	84.9-94.2
N32	1	N551	Shiprock	0.74
N34	2	NM602	Bread Springs	18.5
N33	1	N1017	Tuba City	0.05
N32	1	NM-N13	Shiprock	14.8











#### Crash Locations with Road Defects and Traffic Control Malfunction:

Road defects caused 252 crashes or 2.4% of all crashes. There were 11 crashes caused by traffic control malfunction. There were not sufficient data from police reports to get specific information on the road conditions. However, supervisory or design engineers should seek out these road sections to further investigate road defect problem. See Map V-8 for locations of crashes by road defect and non-functional traffic signals.

# **Safety Improvement Recommendations:**

To promote safe mobility and reduce the potential for crashes, this plan has identified roadway segments and intersections that should be examined for safety improvements beyond the location identified in Table V-10. There are two primary focus areas where safety can be improved, including roadway and roadside safety. Roadway safety would help to reduce crashes caused by driver inattention, excessive access, turning vehicles, animals on the road and roadway geometry. Safety improvement strategies that relate to roadway safety would include access management, roadway striping, roadway warning signs, proper intersection control and pedestrian crossing locations.

The second grouping of safety improvement strategies would include those that relate to roadside safety. Roadside safety improvements would include strategies that relate to animal related crashes, pedestrian type crashes, and those crashes that involved fixed objects or runoff the road incidents. Safety improvement strategies that relate to roadside safety would include animal fencing, sidewalks, roadway warning signs and clearing roadside hazards (proper clear zone).

The crash locations that are included in this Plan are a first step in identifying potential studies and improvement projects that will help make multi-modal travel safer. It is intended that this is a starting point and that as new data is developed, the high crash locations on both the Navajo BIA and State Routes will be examined under a recurring process to ensure that the high crash locations are continuously identified and ultimately fixed. Any improvement project must go through the planning and project development processes to identify the correct solutions to any problem and to identify and program funds for needed improvements.

It is highly recommended that the Navajo DOT conduct traffic data collection activities on the segments and at the intersection location that exhibit a high number and/or rate of crashes. This information will ultimately provide for a thorough understanding as projects are scoped and programmed.

Table V-14 summarizes total safety needs.

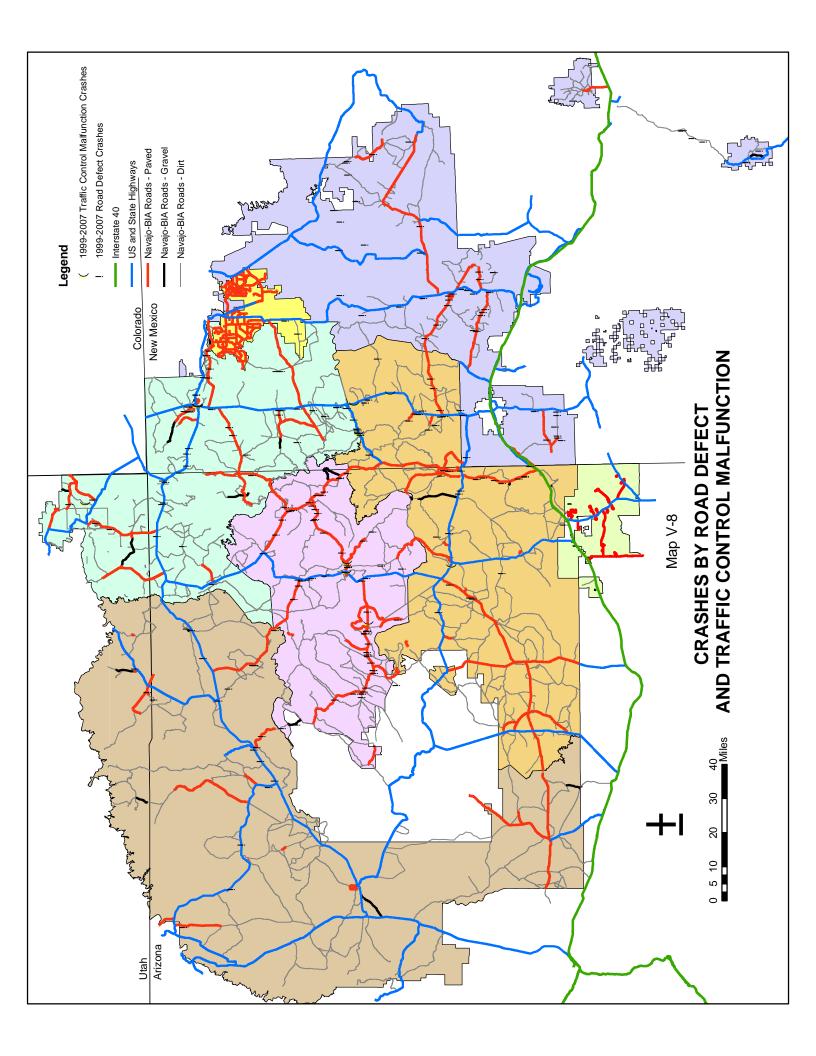
**Table V-14. Total Safety Needs** 

High Crash Rate Segments	133	Miles
High Crash Rate Intersections	13	Intersections
Access Management Needs	23.6	Miles
Pedestrian Crossing Layouts	62	Locations
Corridor Safety Audits	117	Miles
Intersection Safety Audits	18	Intersections









# **NEED 5: Chapter House Access Needs**

Accessibility is a federal policy guiding IRR program development.<sup>3</sup> Accessibility to local government and services is an issue in every one of the Navajo Nation's 110 chapters. The Navajo Nation and BIA-NRODOT have an affirmative responsibility to provide all-weather access to chapter houses that provide community based government services and facilities.

The 1998 Navajo Nation Local Governance Act (LGA) allows the decentralizing of the Navajo Nation government's authority and functions to the chapters. When a chapter house becomes a center for government services and functions, traffic to it will be dramatically elevated. Aside from housing government programs, a Navajo chapter house is a central place in Navajo community life. A chapter house is where residents can use telephones, pick up mail, receive personal messages, have meetings and social gatherings. Other community facilities such as recreation areas, nursery, schools, housing, and business sites, are generally situated nearby.

Sixteen (16) chapters still lack paved access roads to their chapter houses. Access roads to these chapter houses are impassible during severe weather. A total of 164.8 miles of roads (Table V-15) providing access to chapter houses are unpaved. These unpaved access roads include149.8 miles of BIA Class 4 roads and 15.0 miles of County roads. Map V-9 shows these chapter houses with locations and miles of unpaved access roads.

Table V-15. BIA Class 4 Roads Providing Access to Chapter Houses

					1			
Agency	Route No., Access to Chapter House.	BMP	EMP	Improve- ment Miles	Existing ADT	20- Year ADT	Existing Surface Type	Proposed Surface Type
SR	N35, to Sweet Water	7.2	28.1	20.9	553	821	Earth	Paved
	N368, to San Juan	0	2.1	2.1	342	508	Earth	Paved
		2.1	2.9	0.8			Earth	Gravel
	N5031, to Hogback	7.7	7.8	0.1	398	591	Earth	Paved
	N5056, to Mexican Water	0	5.4	5.4	67	99	Earth	Gravel
WNA	N16, to Navajo Mountain	40.4	50.7	10.3	322	478	Earth	Paved
	N20, to Coppermine	0	29.9	29.9	170	252	Earth	Paved
	N6331, to Kaibeto	0	1.4	1.4	213	316	Earth	Paved
		1.4	2.4	1	50	74	Earth	Gravel
	N6460, to Dennehotso	24.9	25.9	1	672	998	Earth	Paved
ENA	CR19, to Casamero Lake	5.2	15	9.8	N/A	N/A	Earth	Paved
	N46, to Counselor	0	5.6	5.6	545	809	Earth	Paved
		5.6	15.6	10	89	132	Earth	Gravel
		15.6	23.7	8.1	382	567	Earth	Paved
	N55, to Alamo	7	40.1	33.1	N/A	N/A	Earth	Paved
	N7057, to White Rock	23.2	23.7	0.5	50	74	Earth	Gravel
	CR7760, to White Rock	0	5.2	5.2	N/A	N/A	Earth	Paved
	N7111, to Mariano Lake	2.3	2.8	0.5	328	487	Earth	Paved
	N481, to Little Water	16.6	18.4	1.8	225	334	Earth	Paved
	N7119, to to Little Water	0	1.2	1.2	248	368	Earth	Paved
CHL	N8066, to Black Mesa	0	5	5	242	359	Earth	Paved
		5	15.4	10.4	166	247	Earth	Gravel
FTD	N30, to Mexican Springs	3	3.7	0.7	1659	2464	Earth	Paved
Total Road	s to be paved/gravel:	164.8			1			
Total BIA R	Roads to be paved/gravel:	149.8	1					

Source: 2008 Navajo Region Road Inventory Database.

Total County Roads to be paved/gravel:

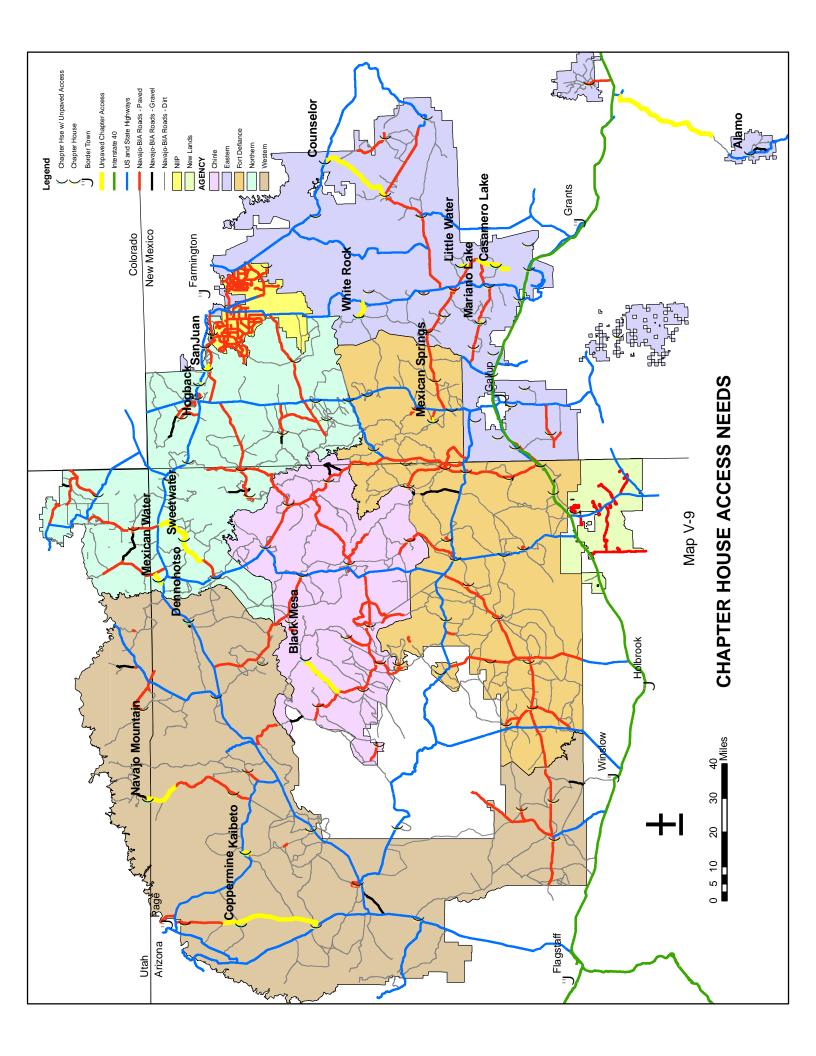
15.0







MOA between BIA and FHWA, 5-24-83, the BIA is responsible in the development of public road system which will provide transportation facilities and provide access for use and development of Indian Lands.



# **NEED 6: Growth Center Street Needs**

IRR Program planning regulations require that long range transportation planning consider impacts of existing and future traffic generators and land uses. Navajo Nation policies, combined with population growth are driving development of the Navajo Primary Growth Centers. Expansion of infrastructure, including transportation systems, will be required to support this development. While many of Navajo primary growth centers qualify as small urban areas (a community of 5,000 population is classified as a small urban area<sup>4</sup>), their transportation systems typically are comprised of only a few paved roads. A typical Navajo Primary Growth Center transportation system consists of a state highway and/or a Navajo-BIA Class 2 road, NHA housing subdivision streets, short access roads to government facilities, and miscellaneous unpaved system and non-system roads. Table V-16 shows existing signalization, miles of streets and street lights at the Primary Growth Centers.

Table V-16. Growth Centers' Existing Streets, Lighting, and Signalization

Growth Centers	2000	Paved	Paved	Gravel	Street Lights	Signalization
	Population	3 to 5-Lane	2-Lane	Roads	(Miles)	
		Streets	Streets			
		(Miles)	(Miles)			
Tuba City	8,225	1.7	8.7	6.2	1.0	1
Shiprock	8,156	7.6	4.7	1.2	5.0	4
Chinle	5,366	3.3	1.9	1.4	1.3	1
Kayenta	4,922	1.8	0.2	0.0	2.0	1
Fort Defiance	4,061	2.7	6.7	0.0	0.9	3
Window Rock	3,059	2.2	2.3	0.0	2.5	2
Crownpoint	2,630	3.1	4.5	2.5	0.0	0
Total	36,419	22.4	28.9	11.3	12.7	12

## **Future Transportation Needs:**

Population at Navajo Primary Growth Centers Community is estimated to increase at 2.5% growth rate annually. Shiprock, Tuba City, Chinle, Kayenta, Fort Defiance, and Window Rock will be among the most populated communities with populations well over 5,000. School, healthcare, and other community services will be needed as well as employment and economic development.

Existing traffic congestion has already strained the main streets in Growth Centers. Traffic crashes were reported high on the primary growth centers' main streets (see Chapter 5-Need 4: Safety). More streets and an efficient street network are needed for each primary growth center to provide alternate routes in order to reduce traffic congestion and accidents.

Chapter VII discusses transportation needs and proposed Primary Growth street plans for Shiprock, Tuba City, Kayenta, Crownpoint, Chinle, Fort Defiance, and Window Rock. These Navajo Primary Growth Centers need additional streets to promote economic development and serve future populations. Tables V-17 and V-18 summarize proposed construction of streets, lighting and signalization needs recommended for Navajo-BIA roads and State Highways at each growth center by 2030.

FHWA Highway Functional Classification-Concepts, Criteria and Procedures







Table V-17. Growth Centers' Proposed Improvements and Needs on Navajo-BIA Roads

Growth Centers	2030	Sidewalks	New Bus	Paved 2-Lane	Gravel	Access	Total Road	Traffic Control Needs
	Population		Stops	Streets	Roads	Management	Improvement	
				(Miles)			Miles	
Tuba City	17,253	0	2	0	0	0	0	0
Shiprock	17,018	1.53	1	8.3	0	0	9.83	2
Chinle	11,256	2.96	0	6.32	6.8	0	13.12	0
Kayenta	10,323	0	0	4.42	0	0	4.42	0
Fort Defiance	9,133	0	0	5.26	0	0	5.26	0
Window Rock	8,518	0	0	4.47	0	0	4.47	0
Crownpoint	5,517	0.42	0	0.4	0	0	.82	0
Need 6. Total	79,018	4.91	3	29.17	6.8	0	37.92	2

Table V-18. Growth Centers' Proposed Improvements and Needs on State Highways

Growth Centers	2030	Sidewalks	New Bus	Paved 2-Lane	Gravel	Access	Total Road	Traffic Control Needs
	Population		Stops	And 4-lane	Roads	Management	Improvement	
	·		1	Streets (Miles)			Miles	
Tuba City	17,253	2.1	2	0	0	0	2.1	0
Shiprock	17,018	2.86	1	0	0	3.85	6.71	2
Chinle	11,256	0	0	0.33	0	0.25	0.58	0
Kayenta	10,323	0	0	0	0	0	0	0
Fort Defiance	9,133	0	0	0	0	0	0	0
Window Rock	8,518	0	0	0	0	2.67	2.67	0
Crownpoint	5,517	0	0	0	0	0	0	0
Need 6. Total	79,018	4.96	3	0.33	0	6.77	12.06	2

# **NEED 7: Community Economic Development Transportation Needs**

To meet program objectives, IRR must provide access to development and for land use. Health care facilities, public residential projects, schools, shopping centers, industrial development, coal mines, etc. generate considerable traffic. They are major community and economic development providing employment and are major traffic generators on the Navajo Nation. Access as well as safety improvement needs for existing and future development are discussed below.

## **Health Care Facilities:**

# Navajo Area Indian Health Service

• Existing Facilities: The Navajo Area Indian Health Service (NAIHS) is the primary health care provider on the Navajo Nation. NAIHS program administration is divided into 8 service units: Chinle, Crownpoint, Fort Defiance, Gallup, Kayenta, Shiprock, Tuba City, and Winslow Service Units. Within these service units, NAIHS facilities include 6 hospitals, 9 health centers, 12 health stations, and 18 dental clinics (2007) (see Map V-10). NAIHS also provides over 50 primary care services at schools and about 60 at Chapter.







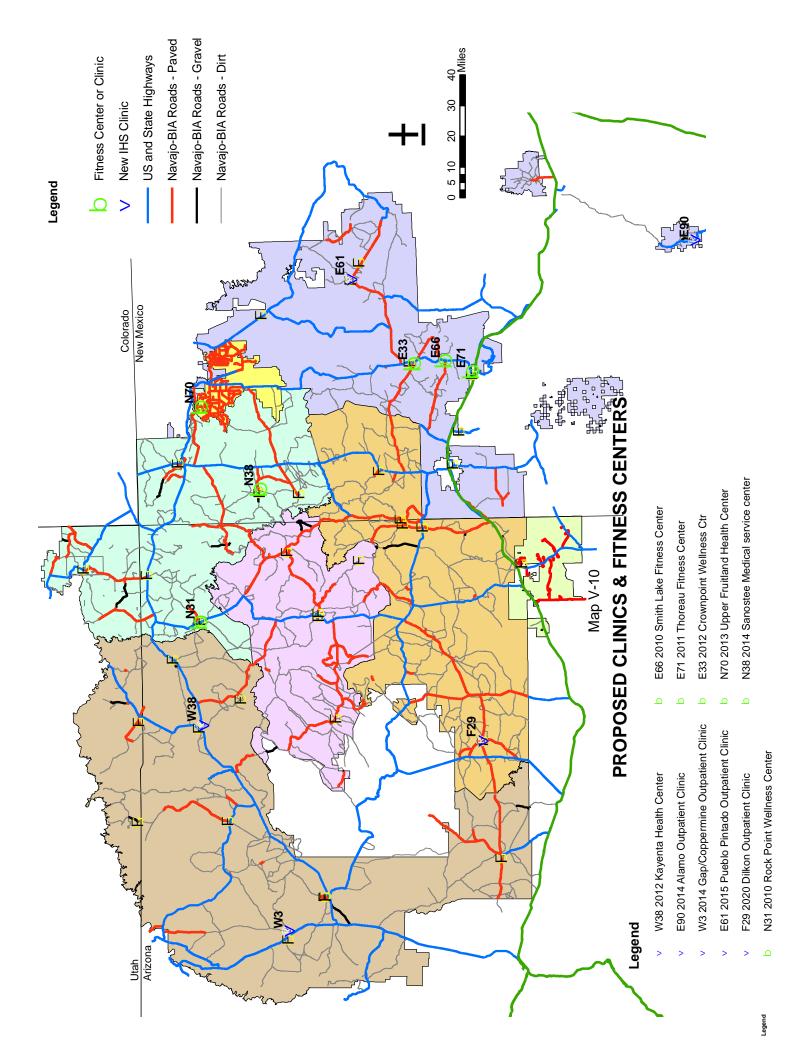


Table V-19. Health Care Visits

Type of Visits	Annual Patient Visits				
Inpatient Discharges	16,494				
Outpatient Visits	1,295,955				
Dental Visits	133,943				
Source: 2007 NAIHS Profile - 2006-2007 IHS Data					

NAIHS health care programs generate a great number of trips to, from, and within the communities where they are located (Table V-19). NAIHS estimates all facilities generated a minimum of 1.4 million trips or 3,900 road trips per day (not including staff work trips). Hospitals account for 76% of patient visits, health centers 19%, and health stations 5%.

Other health care facilities are contract facilities located within or near the Navajo Nation. These include Sage Memorial Hospital (Ganado, AZ), Presbyterian Medical Services (Cuba, NM and Farmington, NM), Winslow Memorial Hospital (Winslow, AZ), and San Juan Health Care Services (Montezuma Creek, UT). These facilities generated approximately 78,000 outpatient visits and 2,300 inpatient admissions annually. Others are private facilities, mostly small dental clinics, and one private clinic provides family care in St. Michael, AZ.

# **Proposed Facilities:**

NAIHS has proposed replacement and new facilities to meet its short and long range goals. In its FY2011 IHS Planned Health Care facility Construction Budget, NAIHS proposes outpatient facilities for underserved areas of the Navajo Nation, Table V-20 summarizes existing and proposed NAIHS facilities on the Navajo Nation.

Table V-20. Proposed NAIS and Contract Health Care Facilities

Est. Open Year	Proposed New Facility	Chapter
2012	Kayenta Health Center w/ 129 staff quarters units	Kayenta
2020	Dilkon Health Station w/ 109 staff quarters units	Dilkon
2014	Alamo Health Station w/ 33 staff quarters units	Alamo
2015	Pueblo Pintado Health Station	Pueblo Pintado
2014	Bodaway Gap Health Station	Gap/Coppermine

Source: 2007 NAIHS Profile

Navajos depend on transportation to provide access to health care facilities for emergency and routine care. Road development priority should be given to the maintenance and improvement of roads serving health care facilities, especially roads that are major routes for emergency care and air and ambulance transport. To accomplish this, the reservation road network must be efficient, in good condition, and well maintained. Table V-21 shows accessibility and safety improvement needs identified by NAIHS for its existing and proposed facilities.

Table V-21. Transportation Needs for Proposed NAIS Facilities

Мар	Est. Open				
I.d.	Year	Proposed New Facility	Rte #	MP	Transportation Needs
W38	2012	Kayenta HC	US160	394.5	Widen road to add turning lanes, street lights
F29	2020	Dilkon HS	N15	54.2	Turning lanes, turn off
E90	2014	Alamo HS	NM169	23.6	Turning lanes, turnoff
E61	2015	Pueblo Pintado HS	N9	76.1	Paving parking lot, and access road, street lights, sidewalks.
W3	2014	Gap/Coppermine HS	N6321	0.1	Pave access road







## **Navajo Division of Health:**

The Navajo Division of Health departments provide health related services including alcohol/substance abuse, mental health, domestic violence, traditional healing, fitness, and health education.

The Department of Behavioral Health has planned for four Wellness Centers. In addition, Sanostee and Upper Fruitland Chapters have identified health care facility needs and sites through Capital Improvement Program Planning, Table V-22.

Table V-22 Proposed Tribal Health Facilities

Iabic	V-ZZ IIOP	osea iiib	ai i i <del>c</del> ailii i c	Cilluca		
Map I.d.	Est. Open Year	Proposed Facility	Chapter	Rte #	MP	Transportation Needs
E33	2012	Wellness Center	Crownpoint	N1040	2.1	Street lights
E66	2010	Fitness Center	Smith Lake	N703	0.5	Need of sidewalks, street lights, pave access road, parking lot.
E71	2011	Fitness Center	Thoreau	NM371	1.7	Need of sidewalks, pave access road, and parking lot
N31	2010	Wellness Center	Rock Point	US191	495.3	Paving parking lot, access road and street lights
N38	2014	Medical service center	Sanostee	N34	17.7	Pave access road, and parking lot, street lights
N70	2013	Health Center	Upper Fruitland	N3005	0.8	Pave access road, and parking lot, street lights

Source: 2009 CIP Project Priorities (WIND) and 2009 Navajo DOT's chapter survey.

The Community Health Representatives (CHR) program provides emergency medical transportation upon request, while Navajo Aging Service provides transportation for Navajo elderly to Senior Centers in some chapters. CHR offices and Senior Centers are located at chapter houses while other offices are mostly located at various Navajo Nation government complexes. Access improvement to all chapter houses and tribal office complexes is identified as a transportation need to improve public access to tribal health care programs.

#### **Residential Development:**

NHA housing subdivisions are major traffic generators throughout the reservation. The Navajo Housing Authority (NHA), funded by the federal Department of Housing and Urban Development (HUD), is the major tribal agency building housing for low income families. NHA has planned and constructed less of subdivision housing and more of scattered homes recently. NHA however, cannot provide any planned NHA housing development for this 2009 LRTP update. Chapters nevertheless provided us their proposed housing projects and transportation needs, Table V-23.

Table V-23. Proposed Housing and Related Transportation Needs by Chapters

Map I.d.	Est. Open Year	Proposed Facility	Chapter	Rte #	MP	Transportation Needs
E84	2012	NHA Housing	Whitehorse Lake	N9	63	Street lights, pave access road
F17	2009	Housing Development	St. Michaels	CR408	0	Pave Street
F6	2010	Housing Development	Ft. Defiance	N110	0.9	Pave Street
W26 E45	2012 2014	Residential Housing Complex Mobile Home Park	Gap Huerfano	US89 CR7150	488.6 5.3	Turn out Lane Street lights, new pave asphalt

Source: 2009 CIP Project Priorities (WIND) and 2009 Navajo DOT's chapter survey.







#### Schools:

In 2006-2007 school year only 46% or 42,492 of total 92,260 Navajo Nation school children attended 140 public schools located on the Navajo Nation (Table V-24). Of these, 80 are public (state/county) schools and 60 are BIA schools (these figures do not include private, church schools and headstart programs). The other 54% attended public schools at Border Towns such as Flagstaff, Winslow, Holbrook and Page in Arizona; Gallup, Cuba, Aztec, Bloomfields and Farmington in New Mexico; and Mexican Hat and Montezuma in Utah.

Table V-24 Enrollment Demographics – SY 2006-07

Institution	Location	# of Schools	Enrollment
Arizona Public Schools	On Navajo	44	17,304
Arizona Charter Schools	On Navajo	4	638
Total Arizona		48	17,942
New Mexico Public Schools	On Navajo	27	7,607
Total New Mexico		27	7,607
Utah Public Schools	On Navajo	5	984
Total Utah		5	984
OIEP-BIA Funded School*	On Navajo	60	15,959
Total OIEP-BIA		60	15,959

OIEP-BIA Total Enrollment based on SY2004 05

42,492

Table V-25 shows proposed schools and Headstart projects and recommended transportation needs. See also Map V-11.

140

**Table V-25 Proposed Schools and Headstart Projects** 

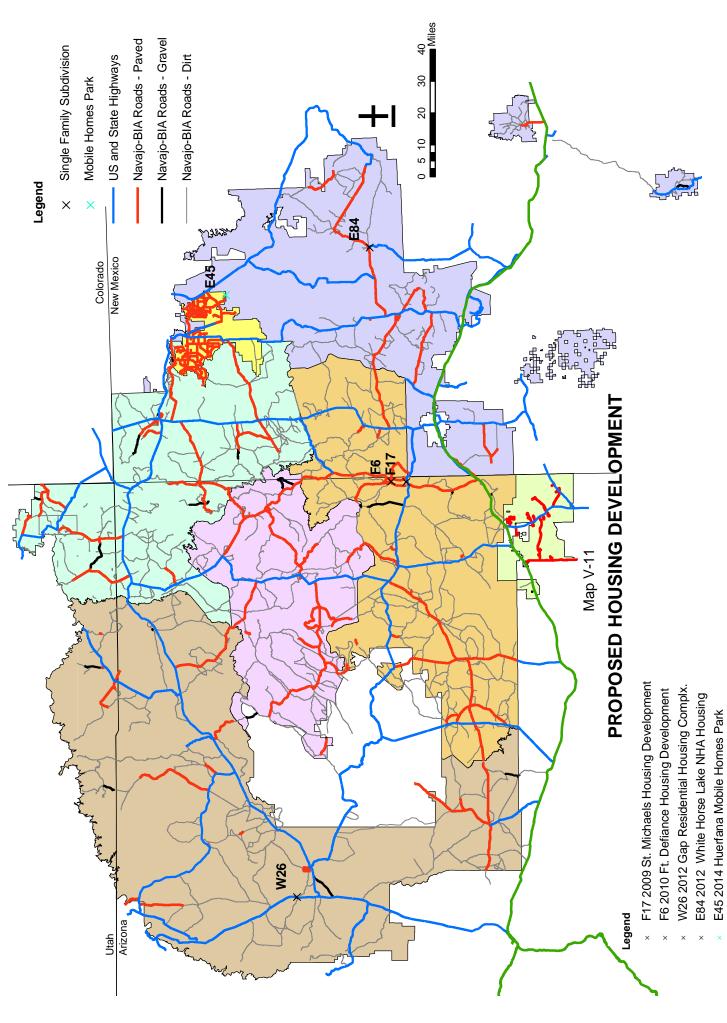
Map I.d.	Estimated Open Year	Proposed Facility	Chapter	Rte#	MP	Transportation Needs	
	2010		'			'	
C1	2010	Head Start	Black Mesa,	N8066	15.4	Pave N8066 and access road	
C13	2010	Head Start	Cottonwood	Tribal Road	0.2	Pave access road, parking lot pavement	
C14	2010	Head Start	Whippoorwill	N602	0.2	Parking lot pavement	
C7	2010	Head Start	Nazlini	N27	16.85	Parking lot pavement/gravel	
E14	2010	Preschool	Chichiltah	N7046	4.3	Paving parking lot, access road, sidewalks, street lights.	
E17	2011	Head Start	Church Rock	CR7063	0.3	Paving parking lot, access road, sidewalks, street lights.	
E40	2014	Preschool	Crownpoint	N1042	1.3	Street lights	
E46	2010	Head Start	Iyanbito	CR33		Turning lanes	
E49	2010	Head Start	Little Water	N7119	1.2	Paving parking lot, access road, sidewalks, street lights.	
E67	2011	Head Start	Smith Lake	N703	0.5	Need of sidewalks, pave access road, and parking lot.	
F19	2010	Elementary School	Teesto	N60	22.8	Pave Access and to School Bus Route	
N11	2013	Head Start building	Cove	N5018	0.2	Pave access road, and parking lot, street lights	
N57	2011	New Head Start building	Sweetwater	N35	18.6	Pave access road, and parking lot, street lights	
N74	2015	High School	Upper Fruitland	N3005	1.2	Pave access road, and parking lot, street lights	
W17	2010	Head Start	Kayenta	US163	398.13	Access Turn out	
W29	2015	New School K-6	Coalmine Canyon	N6720	39.1	Rd. Construction/access	
W30	2015	New School	Dennehotso	US160/N6465	418	Pave N6465	

Source: 2009 CIP Project Priorities (WIND) and 2009 Navajo DOT's chapter survey.









## **Economic Development:**

The Navajo Nation Division of Economic Development has three major development goals for the near future: industrial, tourism, and commercial and real estate development. Development in these areas will produce base industry growth and job creation.

## **Industrial Development:**

Economic development and manufacturing is considered to be the most important aspect of industry. There are five industrial plants in operation on the Navajo Nation:

- Raytheon at the NAPI Industrial Park.
- MechTronics of Arizona in the Fort Defiance Industrial Park.
- TDI in the Leupp Industrial Park.
- Southwest Cabinet at the Church Rock Industrial Park.
- Gallup Camper Sales.

Considering the paramount importance of manufacturing, the Division is actively recruiting new industrial businesses, of which the important ones are:

- Latex Glove Manufacturing Plant
- Montezuma Creek Sewing Factory
- **BCDS Manufacturing Operation**
- Housing Panel Manufacturing
- Indian Tribal Economic Alliance (ITEA)

#### **Tourism Development:**

Tourism has the potential of generating a substantial amount of income for the Navajo Nation. According to a recent study, the tourism industry has an economic impact of \$100 million dollars and supports 3,506 jobs. To promote tourism in the Navajo Nation and to capture more of the tourist dollars, the Navajo Nation Division of Economic Development have planned a number of projects:

- Completion of Phase II and Phase III-Antelope Marina & Resort
- Shiprock RV Park
- Monument Valley Interpretive Center
- Dine Biitah Scenic Road
- Dine Tourism Corridor

#### **Commercial & Real Estate Development:**

Office and retail space development has been initiated by Chuska/Sahara, utilizing private financing and using the Bureau of Indian Affairs loan guarantee program at various sites. The sites are:

- White Cone Commercial Development Phase I development is in the bid process to prepare a 4.0 acre tract of land in White Cone, AZ, a southwestern community for future business. The target business is an 8,000-10,000 square foot retail center that includes a gas station, convenience store, laundry and a small sit-down eating operation.
- Karigan Housing Development Phase II Phase II development of housing on Karigan Estates in St. Michaels, AZ will began in July, 2004. The project is a continuation of home ownership on fee lands located at Karigan Estates.
- Sawmill Retail Center Site Development for a small retail center currently being advertised for bids. Attract business for the 3.0 acre tract of land in Sawmill, AZ includes a gas station and convenience store.
- Newlands Shopping Center Infrastructure planning and development to accommodate a future full-scale shopping center at Sanders, AZ is in the architect and engineering stages. The project will provide for tenant recruitment and construction of a commercial facility to accommodate the Newlands community.
- Tuba City Office and Retail Complex (42,000 sq. ft.) Completion date is June, 2004
- Kayenta Office and Retail Complex
- Shiprock Office and Retail Complex
- Dilkon Office and Retail Complex
- Fort Defiance Office and Retail Complex
- Crownpoint Office and Retail Complex







Table V-26 identifies the Navajo Nation Economic Development Priorities

**Table V-26 Navaio Nation Economic Development Priorities** 

		Navajo Nation Economic Devel		1		
Map i.d.	Est. Open Year	Proposed Facility	Chapter	Rte #	MP	Transportation Needs
F26	*	Nahat'ah Dziil Shopping Center	Nahat'ah Dzill	N9402	0.1	Roundabout
E86	*	Latex Gloves Manufacturing Plant	Church Rock, NM	NM118	28.9	Widen NM118 for turning lanes and median
E86	*	Church Rock Gateway Incubator Service	Church Rock, NM	NM118	28.9	Widen NM118 for turning lanes and median
F7	2010	Commercial Development	Ganado	US191	417.3	Turning lanes
W33	*	Kerley Valley Commercial/Industrial Site	Tuba City	US160	320.08	Widen road for turning lanes
W34	*	Shonto Jct. Commercial/Industrial Park	Shonto, AZ	US160	361.6	Access Turning lanes
W33	*	Coalmine Canyon Commercial/Industrial Site	Coalmine Canyon, AZ	US160	320.08	Turning lanes
		Chilchinbeto Commercial/Industrial	Chilchinbeto,			
W35	*	Park	AZ	N59	29.4	Turning lanes
W28	2015	Commercial Development	Bittersprings	US89US89A	524	Turning lanes
		Kaibeto Commercial & Tourism Development	Kaibeto, AZ			
W36	*	,	A 11-	AZ98	331.03	Turn off
N2	2011	Montezuma Shopping Center	Aneth	UT262	22.5	Pave access road, and parking lot, street lights
W37	*	Antelope Point Resort	LeChee/Page	N222	4.5	Turn off
	*	Auto Parts Store & Auto Repair	Chinle, AZ	No site identified yet		
	*	Huerfano Roadside Devmt-Tourism	Huerfano, NM			
E82	2011	Torreon Roadside Development- Tourism	Torreon	Tribal Road	0.4	Sidewalks, pave access road, and parking lot
C17	*	Gorman's Trailer Ct redevelopmt	Chinle, AZ	N8092	0.1	Pave access road (N8092)
N77	*	Convenience Store & Gas station	Sheepsprings, NM	NM134	0.03	Widen NM134 for turning lanes
F15	2009	Karigan Housing	St. Michaels	Tribal Road	0.1	Pave street
C18	*	Wheatfields Lake Renovation	Wheatfields, AZ	N12	64.2	Turning lanes, multiple access points, parking
F27	*	Karigan Estates Apartment Complex	St. Michaels	Tribal Road	0.1	Pave street
N52	2012	TeecNosPos Commercial Center	Teec Nos Pos	US160	465.5	Pave access road, and parking lot, street lights
	*	Convenience Store/Gas Station	Chinle, AZ	N No site identified yet		
	*	Storage Units	Chinle, AZ	No site identified yet		
N45	2012	Fair grounds	Shiprock	US491	88	Paving parking lot, access road and street lights
	*	Monarch Park	St. Michaels			
F28		Karigan Restaurant	St. Michaels	AZ264	473.4	None
		Eastern Navajo Office & Retail				
E88		Complex & Retail Center	Crownpoint	N9	38.9	Turn off
N78 N50	2012	Hotel & Conference Center	Shiprock Shiprock	US491 US491	90.7	Paving parking lot, access road and street lights
		American Family Entertainment Center				Toau and street lights







# 2009 Navajo Nation Long Range Transportation Plan

W40	Bottled Water Processing Plant (Leupp, AZ)	Leupp/Twin Arrows	I-40/N6930	230.4	Pave access road (N6930)
	Seven Rural Commercial Facilities				
N79	Sheepsprings Welcome Center	Sheepsprings	NM134	0.03	Widen NM134 for turning lanes
W33	Kerly Valley Commerical Light Industrial Site	Tuba City	US160	320.08	Widen road for turning lanes
	Navajo Nation Shopping Centers				
	Acciona Thermal Solar Project				
E89	Mariano Lake Trading Post		N49	1.5	Turn off

Source: Division of Economic Development 2007 Notes: \*No funding year has been yet established.

In addition to the Division of Economic Development priority projects, several Chapters have also planned several more economic development projects for their chapters to be funded under Capital Improvement Programming. The Navajo Nation Gaming Enterprise has also proposed to build three more casinos. See Table V-27 below.

**Table V-27 Other Economic Development Projects** 

Map I.d.	Est. Open Year	Proposed Project	Chapter	Rte #	MP	Transportation Needs
E10	2013	Convenience store/laundromat	Casamero Lake	CR19	9.6	Paving parking lot, access road, sidewalks, street lights.
E26	2014	Commercial site development (11acres)	Counselor	US550	97.1	Paving parking lot, access road, sidewalk, street lights
E39	2014	Vendor Village	Crownpoint	N1040	1.6	Street lights
E4	2010	Smoke House	Baca	CR100	0	Paving parking lot, and access road, street lights, sidewalks
E41	2014	Performing Arts	Crownpoint	N1042	2	Street lights
E50	2012	Laundromat	Little Water	N7119	1.2	Paving parking lot, access road, sidewalks, street lights.
E52	2014	Bottling Co.	Little Water	N7119	1.2	Paving parking lot, access road, sidewalks, street lights.
E54	2012	Economic dev	Manuelito	NM118	6.9	Turning lanes
E82	2011	Arts & Crafts	Torreon	Tribal Road	0.4	Sidewalks, pave access road, and parking lot
E90		Convenience Store	Churchrock	NM118	29.5	Access mgmt/Turn out
E91		Convenience Store	Crownpoint	N9	39.78	Access mgmt/Turn out
F12	2009	Commercial Center	Nahat'ah Dziil	N2011	1	Pavement of roadway
F13	2009	Convenience Store	Naschitti	T6914	12.1	Pavement reconstruction
F14	2010	Convenience Store	Red Lake	N12	41.6	Turn off, access
F16	2010	Golf Course Development	St. Michaels	N12	22.4	Pave Access from N12 to St. Michaels School
F40	2000	Canyanianaa Stara	Ctoomboot	NOE		Pave Roadway, Access to north
F18 F2	2009	Convenience Store Convenience Store	Steamboat Cornfields	N25 N151	10.2	Tselani Pave Roadway and pave access
F21	2010	Convenience Store	White Cone	N9062	21.3	Pave access on N9062
F23	2010	Convenience Store	Wide Ruins	N9062 N9205	14.8	Pave access on N9062 Pave roadway
123	2010	Dine Tah Gateway Ctr/Gas	Wide Ruilis	119203	14.0	Fave loadway
F24	2010	Station	Lupton	N12	0	Access mangement, Sign
127	2010	Otation	Coyote	IVIZ	1	Access mangement, eigh
F3	2009	Convenience Store	Canyon	N37	5.95	Pave Roadway to 491 Access Traffic
F8	2009	Convenience Store	Ganado	N9202	0	Paved Roadway
F9	2010	Convenience Store	Houck	N9010	0	Pave road to Pine Springs from I-40
N12	2010	Laundromat Mat	Cove	N5018	0.2	Pave access road, and parking lot, street lights
N14	2011	100 Acres Master Planning	Cudeii	N57	0.2	Pave access road, and parking lot, street lights
N16	2013	Scenic View Hotel	Cudeii	N571	0	Pave access road, and parking lot, street lights
N19	2011	Red Ranch Resort Center	Mexican Water	N12_UT	2.4	Pave access road, and parking lot, street lights





N25	2014	Convenience store	Red Mesa	US160	449.9	Pave access road, and parking lot, street lights
N43	2012	Visitor Center	Shiprock	US64	23.16	Pave access road, and parking lot, street lights
N49	2011	Hotel & restaurant	Shiprock	US491	90.8	Paving parking lot, access road and street lights
N52	2012	16 Acres site development	Teec Nos Pos	US160 465.5		Pave access road, and parking lot, street lights
N60	2012	Bingo-Casino Hall	Hogback			Pave access road, and parking lot, street lights
N73	2012	Convenience Store	Upper Fruitland			Pave access road, and parking lot, street lights
W12	2011	Baby Rock Commercial Ctr.	Dennehotso	US160 407.5		Access Turn out
W19	2012	Tall Mt. Solar Proj.	Navajo Mountain			
W20	2012	Wind Farm	Shonto	N40	2.7	Construction/access
W31	2010	Visitor Ctr/Artist Plaza	Shonto	US160	361.6	Access Turning lanes
W32	2010	Antelope Cyn Visitor Ctr	LeChee	AZ98	299.5	Sign
W7	2010	Truck Stop	Gap	US89	486	Access Turn out
W41		Convenience Store	Leupp	N15	14.8	Access Turn out
W42		Convenience Store	Dennehotso	US160	417.7	Access mgmt/Turn out
				I-40/		
F30	2010	Casino	Navajo	N2013	320.01	Pave access road(N2013)
N76	2011	Casino	Upper Fruitland	N36	27.8	Pave access road, and parking lot, street lights
W39	2012	Casino	Twin Arrows	I-40/ N6930	230.4	Pave access road(N6930)

Sources: Navajo Nation Gaming Enterprise, Navajo DOT's chapter survey, RBDOs, 2009.

New access roads, turnoffs, traffic signals, street lights, and accelerate/decelerate lanes are recommended for safety and accessibility for these planned economic developments. Overall transportation system connectivity is also crucial to the Navajo Nation's economic future. Map V-12 illustrates the proposed economic development projects. Without an adequate transportation system, the Nation's future economic growth will be severely constrained.

#### **Energy Development:**

Energy development is now an important part to the Navajo Nation's overall economic development strategies. The Dine' Power Authority (DPA) oversees energy development for the Navajo Nation has proposed four major projects as follows:

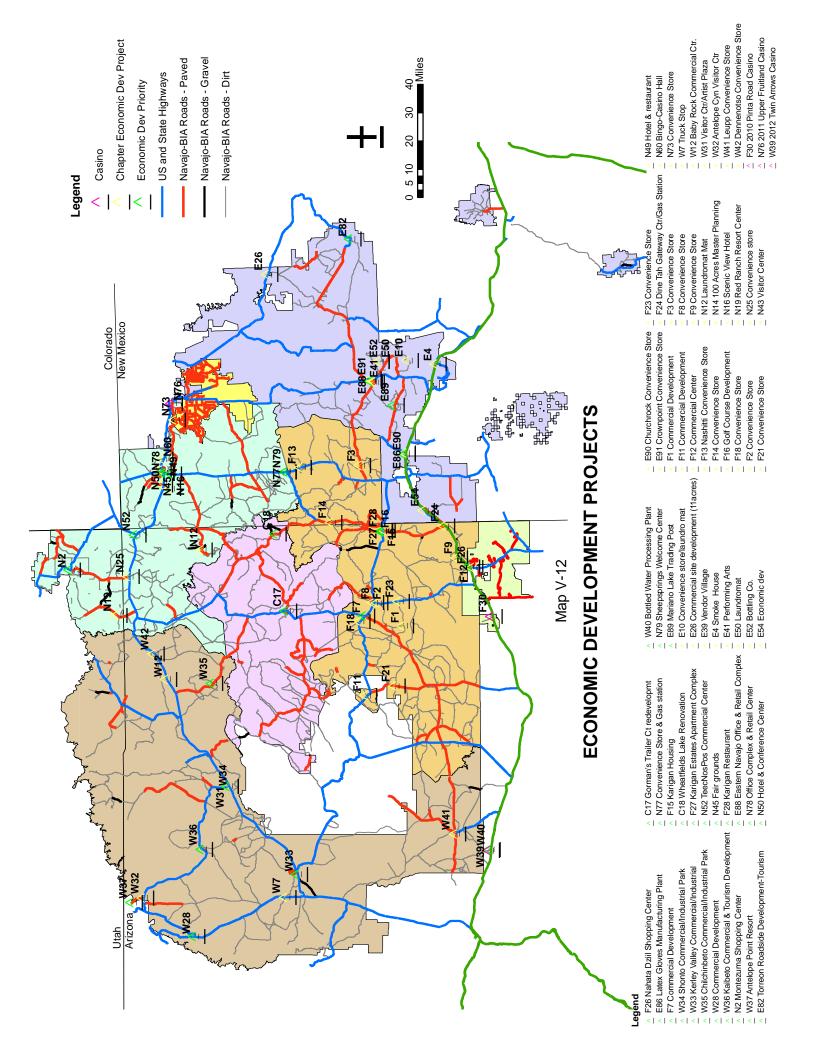
- Navajo Transmission Project: The Navajo Transmission Project (NTP) is a 469-mile high
  voltage transmission line to supply electricity from the Four Corners region power plants to
  Arizona, Nevada and California substations. This project will supplant the aging existing
  transmission system eliminating a supply gap in the Southwest grid and providing stability and
  reliability in the event of outage and impacts to the power plants.
- Desert Rock Power Plant: Desert Rock is a coal-fired 1,500 megawatts (MW) power plant
  planned to start operating in 2010. The project is located in Burnham Chapter. The power plant
  will create 400 jobs. The project will add commuter and heavy truck traffic impacting N5082, N5,
  NM371 and US491. There is also a proposed road to be built by BHP Billiton Navajo Coal
  Company to provide access to its mining sites north of the Desert Rock plant and to Desert Rock
  Power Plant access road. This road will replace approximately 18.4 miles of N5082 north of N5.
- **Dine' Wind Project:** DPA has identified potential three (3) high wind resource sites in Grey Mountain/Cameron, Oljatoh/Kayenta and Black Mesa areas. These sites have strong wind that can generate electricity of 200-700 MW, 50-100 MW, and 50-100 MW respectively. Aside from Wind resource, DPA also found potential sites for solar energy development.
- Coalbed Methane Production Plant: The Navajo Oil and Gas Company is hoping to add
  revenue to the Navajo Nation's coffer by planning to tap into more than 220 billion cubic feet gas
  reserve in the San Juan Basin. This is a methane gas reserve underneath Upper Fruitland,
  Nenahnezad and San Juan Chapters. The project will be located east of the BHP Billington Mine
  and includes gas gathering and compression station. The product will be delivered into some of
  the existing major interstate pipelines that already exist on the Navajo Nation.

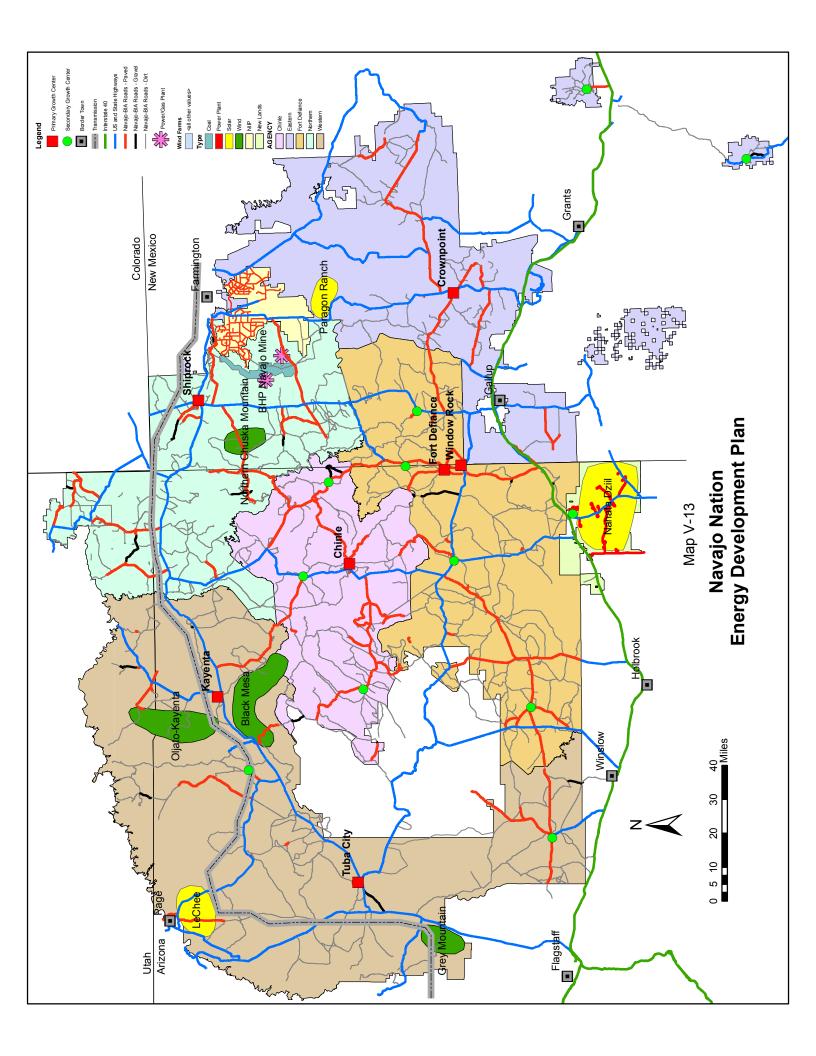
These four projects are shown on Map V-13 Navajo Nation Energy Development Plan.











# **Community Development:**

The Navajo Nation and its chapters are actively pursuing community development. The majority of the Navajo Nation Capital Improvement Program (CIP) projects are located within the chapter house tracts. Paving the access roads to chapter houses will also provide better transportation access to these facilities. Table V-28 lists the 2009 Navajo Nation CIP listing with related transportation needs for each CIP project. See also Map V-14 for project locations.

Table V-28. 2009 Capital Improvement Program

rabie	V-20. 20	009 Capitai improve	ment Progran			
Map I.d.	Est. Open Year	Project Name	Chapter	Route #	Project Route Milepost	Transportation Improvement Needs
C10	2011	Public Safety Cmplx	Pinon	N8030	0.9	Turn off, parking lot pavement, sign
C11	2010	Police Sub-station	Round Rock	N12	96.6	Turn off, parking lot pavement, sign
C12	2011	Senior Ctr	Tsaile	N12	76.2	Turn off, parking lot pavement, sign
C15	2010	Multi-Purpose Ctr	Whippoorwill	N602	0.1	Parking lot pavement
C16	2011	Transfer station	Whippoorwill	N65	6.75	Pave access road
C2	2011	New Chapter Hse	Blue Gap	N406	0.05	Parking lot pavement
C3	2014	Multi-Purpose Ctr	Blue Gap	N406	0.05	Parking lot pavement
C4	2014	Multi-Purpose Ctr	Blue Gap	N8068	9.05	Pave access road, parking lot pavement
C5	2010	Veteran Cemetery	Chinle	N8094	4.2	Pave access road
C6	2011	New Chapter Hse	Hardrock	Tribal Road	0.15	Pave access road, parking lot pavement
C8	2012	New Chapter Hse	Nazlini	N27	16.85	Pave access road,
C9	2012	ARISE Hogan Bldg	Pinon	N8030	0.6	Parking lot pavement
E1	2011	Senior Center	Alamo	NM169	25.6	Turning lanes, street lights, sidewalks
E11	2011	Senior Center	Chichiltah	N7046	4.3	Paving parking lot, access road, sidewalks, street lights.
E12	2014	Jones Ranch Bldg	Chichiltah	N7046	4.3	Paving parking lot, access road, sidewalks, street lights.
E13	2011	Techno Center	Chichiltah	N7046	4.3	Paving parking lot, access road, sidewalks, street lights.
E15	2012	Multi-Purpose Center	Chichiltah	N7046	4.3	Paving parking lot, access road, sidewalks, street lights.
E16	2010	Sr/VA Center	Church Rock	CR33	0.2	Paving parking lot, access road, sidewalks, street lights.
E18	2011	Police Substation	Church Rock	NM118	28.8	Paving parking lot, access road, sidewalks, street lights.
E19	2012	Multi-Purpose Center	Church Rock	NM118	29.5	Paving parking lot, access road, sidewalks, street lights.
E2	2013	Fire Station	Alamo	NM169	25.6	Turning lanes, street lights, sidewalks
E20	2014	VA Memorial Park	Church Rock	NM118	29.2	Paving parking lot, access road, sidewalks, street lights.
E21	2010	Senior Center	Counselor	US550	97.9	Paving parking lot, access road, sidewalk, street lights
E22	2011	Computer Lab	Counselor	US550	97.9	Paving parking lot, access road, sidewalk, street lights
E23	2012	Fire Equip & Bldg	Counselor	US550	97.1	Paving parking lot, access road, sidewalk, street lights
E24	2013	Multi-Purpose Ctr	Counselor	US550	97.9	Paving parking lot, access road, sidewalk, street lights
E25	2013	Transfer Station	Counselor	US550	97.9	Paving parking lot, access road, sidewalk, street lights
E27	2010	Chapter Ofc & Warehouse	Crownpoint	N1040	2.2	Paving parking lot, sidewalk
E28	2011	Domestic Violence Shelter	Crownpoint	Tribal Road		Paving parking lot, sidewalk
E3	2013	Multi-Purpose Center	Alamo	NM169	25.6	Turning lanes, street lights, sidewalks
E30	2012	Multi-Purpose	Crownpoint	N1042	2.16	Street lights









E31	2012	Rodeo Ground	Crownpoint	N9	36.2	Turn off
E32	2012	Agency Admin Cmplx	Crownpoint	N1042	1.2	Street lights
E34	2013	Chapter Cmplx	Crownpoint	N1040	2.17	Street lights
E35	2013	Youth Ctr	Crownpoint	N1040	2.02	Street lights
E36	2014	Judicial Cmplx	Crownpoint	N1042	2.3	Street lights
E37	2014	VA Ofc	Crownpoint	N1040	2.17	Street lights
E42	2010	Senior Ctr	Huerfano	CR7165	0.15	Street lights, new pave asphalt.
E43	2010	Warehouse	Huerfano	CR7165	0.15	Street lights, new pave asphalt.
E44	2011	New Cemetery	Huerfano	CR7150	5.9	Street lights, new pave asphalt.
E47	2011	Warehouse	Lake Valley	CR7750	0.1	Paving parking lot, access road, sidewalks, street lights.
E48	2011	Multi-Purpose	Lake Valley	CR7750	0.1	Paving parking lot, access road, sidewalks, street lights.
E5	2011	Senior Center	Baca	Tribal Road	0.1	Paving parking lot, and access road, street lights, sidewalks
E51	2013	Senior Ctr/Preschool	Little Water	N7119	1.2	Paving parking lot, access road, sidewalks, street lights.
E53	2011	Multi-Purpose	Manuelito	CR4	0.3	Paving parking lot, access road, sidewalks, street lights.
E55	2011	Senior Ctr	Nageezi	US550	115.4	Paving of parking lot, street lights.
E56	2010	Library	Ojo Encino	N474	16.8	Paving parking lot, access road, sidewalks, street lights.
E57	2012	Fire Station	Ojo Encino	CR474	4.5	Paving parking lot, access road, sidewalks, street lights.
E58	2012	Youth Ctr, Pub	Ojo Encino	N474	16.8	Paving parking lot, access road, sidewalks, street lights.
E59	2010	Senior Ctr	Pueblo Pintado	N9	76.1	Paving parking lot, and access road, street lights, sidewalks.
E6	2012	New Chapter House	Becenti	N7120	0.8	Paving parking lot, access road, sidewalks, street lights.
E60	2011	Fire Station	Pueblo Pintado	N9	76.1	Paving parking lot, and access road, street lights, sidewalks.
E62	2013	Transfer Station	Pueblo Pintado	N9	76.3	Paving parking lot, and access road, street lights, sidewalks.
E63	2014	Senior Center	Red Rock	CR2	0.7 w. NM602	Paving parking lot, and access road, street lights, sidewalks
E64	2010	Multi-Purpose	Rock Springs	CR9	2.0 s. NM264	Turn off
E65	2012	Police Sub-Office	Rock Springs	CR9	2.0 s. NM264	Turn off
E68	2011	Senior Ctr	Standing Rock	N7057	0.7	Need of sidewalks, pave access road, and parking lot.
E69	2013	Multi-Purpose	Standing Rock	N7057	0.6	Need of sidewalks, pave access road, and parking lot.
E70	2011	First Response	Thoreau	NM371	1.7	Need of sidewalks, pave access road, and parking lot
E73	2010	Child Care	Tohajiilee	N56	6	Turning lanes, street lights, sidewalks
E74	2011	New Chapter Hse	Tohajiilee	N56	3.7	Turning lanes, street lights, sidewalks
E75	2011	Detention Ctr	Tohajiilee	N56	6	Turning lanes, street lights, sidewalks
E76	2011	Youth Multi	Tohajiilee	N56	3.7	Turning lanes, street lights, sidewalks
E77	2011	Police Substation	Tohajiilee	N56	6	Turning lanes, street lights, sidewalks
E78	2011	Fire/Rescue	Tohajiilee	N56	6	Turning lanes, street lights, sidewalks
		1	1	1	1	1









E79	2012	Tribal Cmplx	Tohajiilee	N56	5	Turning lanes, street lights, sidewalks
E8	2012	Veteran Administration Bldg	Casamero Lake	CR19	9.6	Paving parking lot, access road, sidewalks, street lights.
E80	2010	Police Substation	Torreon	Tribal Road	0.4	Sidewalks, pave access road, and parking lot
E81	2010	Multi-Purpose	Torreon	Tribal Road	0.4	Sidewalks, pave access road, and parking lot
E83	2010	Senior Ctr	Whitehorse Lake	N9	62.9	Pave access road and parking lot.
E85	2013	Youth Multi	Whitehorse Lake	N9	62.9	Pave access road and parking lot.
E9	2013	Senior Ctr	Casamero Lake	CR19	9.6	Paving parking lot, access road, sidewalks, street lights.
F10	2010	Community Chapter Complex	Jeddito	N9751	7.5	Pave Roadway for access route
F20	2012	Multi Purpose Bldg	Twin Lakes	US491	13.2	Street lights and sidewalk
F22	2009	Senior Citizen Center	Wide Ruins	N9345	0	Pave roadway
F4	2011	New Chapter House	Dilkon			
F5	2011	Senior Citizen Center	Dilkon			
N1	2011	Solid Waste facility	Aneth	UT162	22.6	Pave access road, and parking lot, street lights
N10	2012	Warehouse building	Cove	N5018	0.2	Pave access road, and parking lot, street lights
N13	2010	Community cemetery	Cudeii	US64	18.8	Pave access road, and parking lot, street lights
N15	2012	Multi-Purpose building	Cudeii	N57	0.2	Pave access road, and parking lot, street lights
N17	2010	Multi-Purpose building	Mexican Water	N12_UT	2.4	Pave access road, and parking lot, street lights
N18	2011	New Chapter House	Mexican Water	N12_UT	2.4	Pave access road, and parking lot, street lights
N21	2011	Education Center	Nenahnezad	N365	1.6	Pave access road, and parking lot, street lights
N22	2012	Multi-Purpose building & Veterans Park	Newcomb	US491	56.7	Pave access road, and parking lot, street lights
N23	2013	Senior Citizen garage	Newcomb	N5001	12.2	Pave access road, and parking lot, street lights
N26	2010	Veterans Center	Red Valley	N13	25	Pave access road and parking lot, street lights
N27	2011	New Chapter House	Red Valley	N13	23.8	Pave access road and parking lot, street lights
N28	2011	Multi-Purpose building/Head Start	Red Valley	N13_NM	0	Pave access road and parking lot, street lights
N29	2012	Transfer Station	Red Valley	N5020	0.15	Pave access road and parking lot, street lights
N30	2012	Apache County Yard	Red Valley	N13	24	Pave access road and parking lot, street lights
N32	2011	New Chapter House	Rock Point	US191	495.3	Paving parking lot, access road and street lights
N33	2012	Elderly Group Home	Rock Point	US191	495.3	Paving parking lot, access road and street lights
N34	2014	Transfer Station	Rock Point	US191	495.3	Paving parking lot, and street lights
N35	2012	Warehouse	Hogback	N5031	0.2	Paving parking lot, and street lights
N36	2013	Post Office	Sanostee	N34	17	Pave access road, and parking lot, street lights
N37	2014	Public Safety building	Sanostee	N34	16.7	Pave access road, and parking lot, street lights
N39	2014	Storage facility	Sanostee	N34	16.7	Pave access road, and parking lot, street lights
N40	2014	Day Care Center	Sheep Springs	NM134	0.4	Pave access road, and parking lot, street lights
N41	2014	Warehouse building	Sheep Springs	N5008	0.5	Pave access road, and parking lot, street lights
N42	2014	Community library	Shiprock	US64	23.15	Pave access road, and parking lot, street lights
N44	2011	Court building complex	Shiprock	N531		Paving parking lot, access road









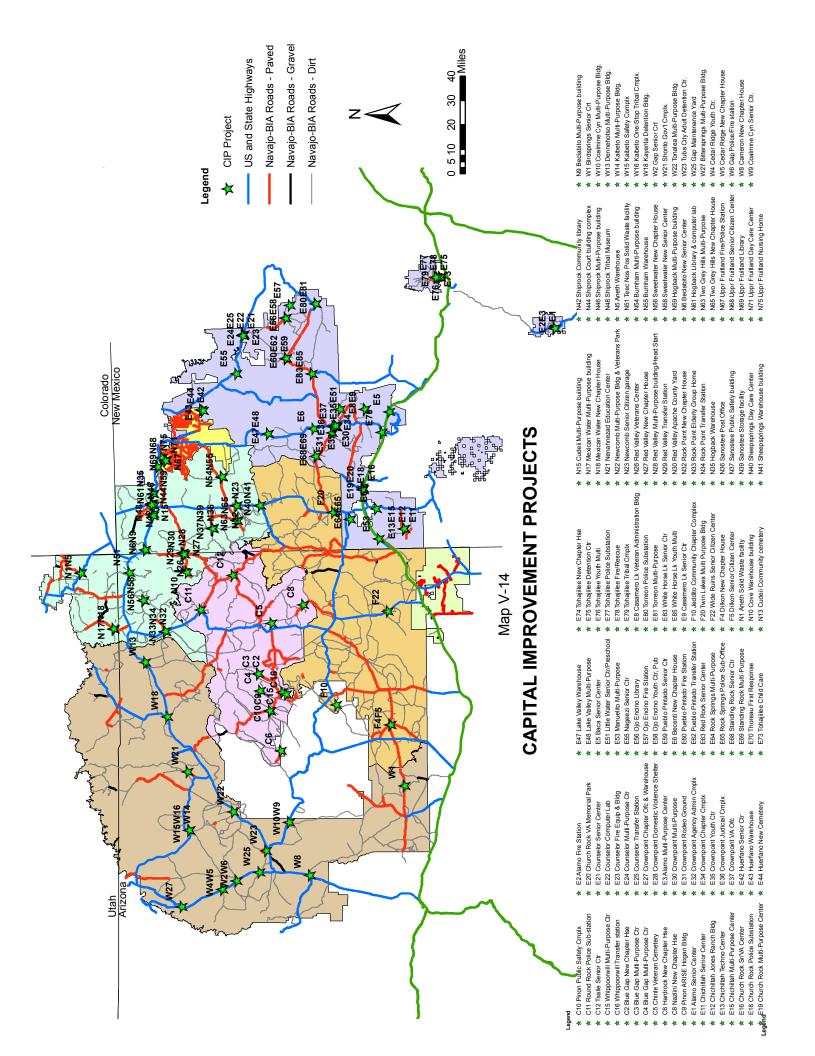
r	Т	I	I	T	1	
						and street lights
N46	2014	Multi-Purpose building	Shiprock	US491	90.9	Paving parking lot, access road and street lights
N48	2013	Tribal Museum	Shiprock	N531		Paving parking lot, access road and street lights
N5	2014	Warehouse	Aneth	UT162	22.5	Pave access road, and parking lot, street lights
N51	2010	Solid Waste facility	Teec Nos Pos	US160	459.6	Ţ
N54	2014	Multi-Purpose building	Burnum	N5080	0.8	Pave access road, and parking lot, street lights
N55	2011	Warehouse	Burnum	N5080	0.8	Pave access road, and parking lot, street lights
N56	2012	New Chapter House	Sweetwater	N35	18.6	Pave access road, and parking lot, street lights
N58	2012	New Senior Center	Sweetwater	N35	18.9	Pave access road, and parking lot, street lights
N59	2010	Multi-Purpose building	Hogback	N5031	0.2	Pave access road, and parking lot, street lights
N6	2010	New Senior Center	Beclabito	US64	3.8	Pave access road, and parking lot, street lights
N61	2012	Library & computer lab	Hogback	N5031	0.2	Pave access road, and parking lot, street lights
N63	2011	Multi-Purpose	Two Grey Hills	N5000	15.2	Pave access road, and parking lot, street lights
N65	2013	New Chapter House	Two Grey Hills	N19	11.06	Pave access road, and parking lot, street lights
N67	2011	Fire/Police Station	Upper Fruitland	N3005	0.8	
N68	2012	Senior Citizen Center	Upper Fruitland	N3005	0.8	Pave access road, and parking lot, street lights
N69	2012	Library	Upper Fruitland	N3005	0.8	Pave access road, and parking lot, street lights
N71	2014	Day Care Center	Upper Fruitland	N3005	0.8	Pave access road, and parking lot, street lights
N75	2013	Nursing Home	Upper Fruitland	N562	0.3	Pave access road, and parking lot, street lights
N9	2010	Multi-Purpose building	Beclabito	US64	3.8	Pave access road, and parking lot, street lights
W1	2011	Senior Crt	Brirdsprings	N15	27.4	Access Turn out
W10	2011	Multi-Purpose Bldg.	Coalmine canyon	N6720	39.1	Rd Const. Access Turn out
W13	2011	Multi-Purpose Bldg.	Dennehotso	N6460	Sect 50/.73	Construction/access
W14	2011	Multi-Purpose Bldg.	Kaibeto	N21	28.6	Construction/access
W15	2012	Safety Complx	Kaibeto	N21	28.6	Construction/access
W16	2012	One-Stop Tribal Cmplx.	Kaibeto	N21	28.6	Construction/access
W18	2010	Detention Bldg.	Kayenta	US163	398.17	Construction/access
W2	2011	Senior Crt	Gap	N20	0.08	Access Turn out
W21	2013	Gov't Cmplx.	Shonto	N6322	4.8	Rd. Construction/access
W22	2012	Multi-Purpose Bldg.	Tonalea	N21	0.07	Turn out Lane
W23	2012	Adult Detention Ctr.	Tuba City	N1017	0.8	Access Turn out
W25	2012	Maintenace Yard	Gap	US89/N23	486.9	Turn out Lane
W27	2015	Multi-Purpose Bldg.	Bittersprings	US89	523.6	Turn out Lane
W4	2012	Youth Ctr.	Cedar Ridge	US89	502.2	Access turn out
W5	2010	New Chapter House	Cedar Ridge	US89	505.2	Access Turn out
W6	2010	Police/Fire station	Gap	N20	0.08	Access Turn out
W8	2011	New Chapter House	Cameron	US89	466.2	Turn out Lane
W9	2011	Senior Ctr.	Coalmine Canyon	N6720	39.1	Rd Const. Access Turn out
_		ID Project Priorities /				

Source: 2009 CIP Project Priorities (WIND) and 2009 Navajo DOT's chapter survey.









# **NEED 8: Scenic Byways, Tourism & Recreation Needs**

Tourism is a major industry that can generate \$100 million dollars and it supports 3,500 jobs on the Navajo Nation according to the Division of Economic Development. To promote tourism on the Navajo Nation, the Navajo Nation Tourism Department has developed a comprehensive Navajo Nation Scenic Byways Plan identifying scenic routes that links all of the Nation's attractions that are most scenic, culturally significant and have naturally intrinsic qualities. Among these are the Canyon de Chelly National Monument, Lake Powell, Monument Valley, Navajo National Monument, Antelope Canyon, Four Corners Monument and Chaco Culture National Historical Park. These natural and cultural resources have provided new sources of income to Navajo people and the surrounding communities.

The Navajo Nation Tourism Department lead, Parks and Recreation, Navajo Division of Transportation, Chapters and Non-profit organizations all support scenic byways development and provide matching funds to state and federal grants in order to implement the Navajo Nation Scenic Byways plan and projects.

# Scenic Byways and Projects:

The Navajo Nation Scenic Byways Plan on Map V-15 shows the Navajo Nation designated scenic byway corridors. Each corridor has been named based on its intrinsic quality whether it is natural, scenic or of Navajo cultural and historical characters (see Table V-29). The table also identifies transportation improvements that are needed to enhance and support each byway development project.

Table V-29. Scenic Byway Related Transportation Needs

State	Scenic Byways	Rte	BMP	EMP	Byway Dev.	Proj	Proj	Existing	Transportation
		No.			Projects	Year	MP	ADT	Needs
ΑZ	Dine'tah/Among the People	N12	0.0	75.7	Lupton Gateway	2010	0.0	1213	Signage Access
		N64	0.0	24.5	Ctr				Mgmt
	Fredonia Vermillion Cliffs	US89A	523.9	546.5		4.7	4.7	168	Signage
	Naatsis'aan/Navajo Mountain	AZ98	294.7	361.6	Antelope	2010	299.5	5289	Signage
	,				Canyon Kios		Kios	Kios	Access Mgmt
					Kaibeto Kios		331.06	2210	
					Inscription		349.3K	01885Ka	
					Hse/Navajo Mtn		aibeto	ibeto	
					Kios		Kios	Kios	
					Shonto Visitor		33615	31885	
					Information				
	Kayenta-Monument Valley	US163	393.5	416.7	MV Visitor				Signage
					Center				
	Tse'nikani/Flat Rock Mesa	US191	462.0	510.3					Signage
NM	Trail of the Ancients	N9	39.8	53.1					Cianaga
INIVI	Trail of the Ancients	N13	0	21.1					Signage
		N19	6.0	18.3					
		N5001	0.0	12.4					
		US64	-	31.6					
		NM134	0	22.3					
		NM264	-	16.3					
		NM371	0	105.5					
		US491	0	105.5					
		US550	123.1	150.0					
UT	Trail of the Ancients	UT162	14.6	32.0					Cianogo
UI	Trail of the Ancients		_						Signage
		US163	0	20.6					
I		UT262	0	22.6	1				ĺ

Source: Navajo Tourism Department, 2009.

Other tourism developments include plans for the following by the Division of Economic Development:

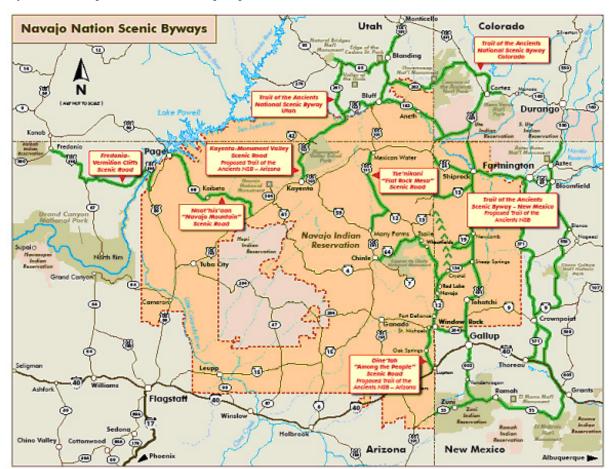
- 1. Completion of the Antelope Marina and Resort Phases II & III (N222).
- 2. Shiprock RV Park







Map V-15. Navajo Nation Scenic Byways







#### Recreation:

The U.S. National Park Service operates the Canyon De Chelly National Monument, Lake Powell, Chaco Culture National Historical Park and Navajo National Monument. The Navajo Parks and Recreation Department, established in 1958, manages tribal parks, monuments, a zoo, five fairgrounds and administers fair events and youth recreational programs.

Many Navajo parks and recreation areas have poor access. Lack of reasonable access to most Navajo recreation sites, many of which are potential tourist attractions, has discouraged their use. The Navajo Parks and Recreation Department's revenue is mainly generated from entrance fees collected from Monument Valley Tribal Park and tribal fairs. Other park facilities have no entrance fee. Revenues are primarily used for facility maintenance, and are often insufficient to cover major road improvements. Improvement of access roads to tribal parks and tourist attractions will attract more park users and tourists alike. Good roads to the tribal parks will also extend tourists' time of stay because there will be more places to explore and things to do. Table V-30 lists all Navajo Nation parks' access improvement needs, and Map V-16 illustrates these needs.

Table V-30. Park Access Needs with Project Priority

	• 00	and Access Niceas With Fire	,000 0			
NUM	Project Priority	Park Name	Chapter	Route No.	MP	Transportation Needs
W41	1	Monument Valley Tribal Park	Ojatoh	Non-sys	0	Pave valley (13.0 mi loop road) drive
W42	2	Marble Canyon Tribal Park	Bodaway	N6110	25.0	Pave 25.0 mi N6110 to confluence for Grand Canyon East project from Cedar Ridge
W43	3	Little Colorado Gorge Overlook	Cameron	N6140	4.0	Improve 4.0 mi access road (gravel) to 1st viewpoint
N80	4	Four Corners Monument	Teec Nos Pos	US160	471.2	Pave parking lot
W46	5	Monument Valley Tribal Park	Ojatoh	N42	21.8	Pave 2.0 mi loop road around administrative area
W44	6	Upper Antelope Canyon Tribal Park	Lechee	N222	5.2	Pave parking lot
W45	7	Lower Antelope Canyon Tribal Park	Lechee	N222	3.5	Pave parking lot
F31	8	Navajo Nation Fairgrounds	St. Michaels	AZ264	475.0	Pave entire fairgrounds for vehicle parking
F32	9	Bowl Canyon Recreation Area (Camp Asaayi)	Mexican Springs	N31	13.3	Gravel 9.5 mi N31 from Navajo to N31/N30 jct.
N81	10	Shiprock Pinnacle	Shiprock	Tribal Rd	2.0	Gravel 2.0 mi Access road and parking lot
C19	11	Wheatfields Lake	Wheatfields	N12	64.6	Gravel 2.0 mi loop road around north campground

Source: Navajo Parks and Recreation Department, August 18, 2009

Chapters also have planned for additional parks and recreation projects for their communities, see Table V-31.







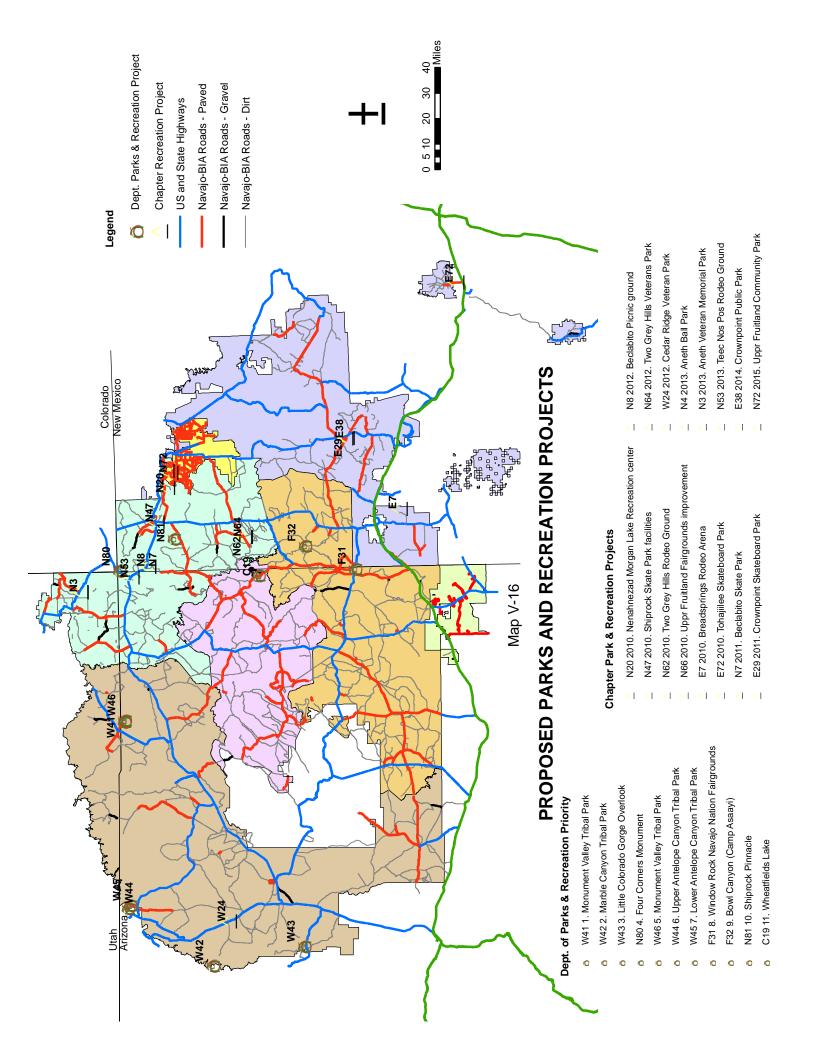


Table V-31. Chapters' Planned Park and Recreation Projects

NUM	Estimated Open Year	Project Name	Chapter	Route #	Project Route Milepost	Transportation Improvement Needs
E29	2011	Skateboard Park	Crownpoint	N1042	2.1	Street lights
E38	2014	Public Park	Crownpoint	N1040	2.1	Street lights
E7	2010	Rodeo Arena	Bread Springs	CR10	1.9	Gravel road
E72	2010	Skateboard Park	Tohajiilee	N56	3.7	Turning lanes, street lights, sidewalks
N20	2010	Morgan Lake Recreation center	Nenahnezad	Tribal Road		Pave access road, and parking lot, street lights
N3	2013	Veteran Memorial Park	Aneth	UT162	22.3	Pave access road, and parking lot, street lights
N4	2013	Ball Park	Aneth	UT162	22.3	Pave access road, and parking lot, street lights
N47	2010	Skate Park facilities	Shiprock	US64	21.5	Paving parking lot, access road and street lights
N53	2013	Rodeo Grounds	Teec Nos Pos	US160	465.6	Pave access road, and parking lot, street lights
N62	2010	Rodeo Ground	Two Grey Hills	N5000	15.1	Pave access road, and parking lot, street lights
N64	2012	Veterans Park	Two Grey Hills	N19	11	Pave access road, and parking lot, street lights
N66	2010	Fairgrounds improvement	Upper Fruitland	N562	0.2	Pave access road, and parking lot, street lights
N7	2011	Skate Park	Beclabito	US64	3.9	Pave access road, and parking lot, street lights
N72	2015	Community Park	Upper Fruitland	N3005	1	Pave access road, and parking lot, street lights
N8	2012	Picnic ground	Beclabito	US64	3.8	Pave access road, and parking lot, street lights
W24	2012	Veteran Park	Cedar Ridge	US89	505.2	Access Turn out

Sources: Navajo DOT's chapter survey, 2009.

Table V-32 Summarizes the total scenic byway, tourism and recreation transportation needs.

Table V-32. Total Scenic Byways, Tourism, and Recreation Transportation Needs

Transportation Needs	Navajo-BIA Road Miles	State Road Miles	County Road Miles	Non-Sys Road Miles	Total Miles
Scenic byways and tourism projects: Signage and access management improvements	N/A	N/A	N/A	N/A	N/A
Tribal Park: Access road improvements	38.5	N/A	N/A	19.0	57.5
Chapters' planned park and recreation projects: Access road improvements	N/A	N/A	7.0	3.0	10.0
Need 8. Total	38.5	N/A	7.0	22.0	67.5

# **NEED 9: Multimodal Transportation Needs**

To meet SAFETEA-LU requirements regarding multimodal transportation, transportation planning must promote the use of other modes of transportation. The multimodal needs related to sidewalks and bicycle mobility in the growth centers are included in Chapter VII, Growth Center Mobility Improvements. Need 9 focuses on aviation, railroad and transit related improvements only

## **Airport Access Needs:**

The Chapter VIII, Navajo Nation Airport Needs has identified airport development needs and recommendations based on State aviation studies and Navajo DOT estimates. The recommendations include new construction of one primary airport in Oljatoh and improvement of eight (8) secondary airports in Ramah Navajo, Rock Point, Navajo Mountain, Monument Valley, Huerfano, Pinon, Dilcon, Alamo and Nahat'a Dziil (New Lands) communities. Priority will be given to the primary airports that are already recognized by the Federal Aviation Administration (FAA) in its National Plan of Integrated Airport Systems (NPIAS) and are therefore, eligible for FAA funding. However, improvement and new







construction of secondary airports are also recommended to provide air transportation to health care facilities and provide emergency landing strips in remote areas. The planned airport developments will help improve air service coverage for the entire reservation including Navajo satellite communities such as Ramah.

Approximately 8.5 miles of new access road construction and paving of existing roads are needed to serve the proposed airport development (Table V-33). See also Map VIII-2 for proposed airport development.

Table V-33. Airport Road Construction Needs

Agency	Primary Airports	Route Number	Est. Access Road Length (miles)
CHL	Oljatoh	Non-System Route (New)	2
SR	Rock Point	N502/N35	1
WNA	Navajo Mountain	Non-System Route (New)	1
WNA	Monument Valley	Non-System Route (New)	0.5
CHL	Pinon	Non-System Route (New)	0.5
FTD	Dilcon	Non-System Route (New)	2
NL	Nahat'a Dziil	Non-System Route (New)	0.5
	Alamo	Non-System Route (New)	1.0
	Ramah		
Total Nav	vajo-BIA Roads:	1	
State Ro	ads:	0.5	
Non-Sys	Roads:	7	
Total:		8.5	

## **Navajo Transit Route Needs:**

# Navajo Transit System Five Year Plan:

May 2009: According to the Navajo Transit System Five Year Plan dated May 2009, ridership in 2008 was approximately 70,000 trips per year; however, it is forecasted that there is an estimated demand for transit of nearly 700,000 one-way passenger trips per year. The plan addresses five key areas: Management/Administration, Operations/Service, Marketing, Coordination, and Funding.

The Navajo Transit System (NTS) provides public transportation services on the Navajo Reservation, serving 57 of 110 chapters. NTS operates intercity bus service on (13) fixed routes linking Navajo growth centers and adjacent border towns. The Tuba City-Window Rock, Toyei-Window Rock, Kayenta-Ft. Defiance, Crownpoint-Ft. Defiance, Dilkon-Window Rock and routes operate one round trip per day Monday to Friday. Window Rock and Gallup routes are core service routes operating four and two round trips each weekday, respectively. In January 2009, the Flagstaff to Tuba City Route was started; this is a one hour trip that will run four times per day. In 2009, the Kayenta to Tuba City route began to provide a one-hour, one-way trip.

NTS connects with Hopi Transit System, Greyhound Busline, Amtrak Passenger Train, Gallup Transit Express, Red Apple Transit, and Flagstaff Mountain Line. NTS has several connections with Navajo Senior Centers along the routes. Most NTS fixed routes operate along state highways. NTS fixed route ridership has increased over the years. Ridership was 65,513 in 2008 and it is expected to increase by 20% in FY 2009, due to the \$1.00 per day ride fee that was established in November 2008 and will remain in place until November 2010. Fixed route customers are classified as 51% general, 22% elderly, 20% commuters and disabled, youth and students making up the rest. NTS buses pick up riders at designated stops, but no NTS stations have been constructed. NTS charters provide transportation for groups, organizations and private tours on and off the Navajo Nation twelve months a year. NTS charter service includes transportation to Arizona State University, University of New Mexico, Haskell University, and other colleges. The recommendations within each area are summarized in Table V-34.







**Table V-34. Navajo Transit Recommendations** 

Key Area	Topic	Recommendations
Management	Wage Adjustments	Conduct review of driver's wages/wage history and make adjustments, as appropriate.
	Personnel/Staffing	Add two positions to support marketing and planning.
Operations	Route Service Expansion	Monitor performance of newly added routes. Implement Routes 11 (Flag/Tuba City) and 12 (Kayenta/Tuba City)
	Transit Centers	Review cost/feasibility of developing transit centers at major activity center to support the truck route system.  Identify locations for transit centers that could be expanded to provide connections
		with other regional transit services.
	Local Service / Regional Transportation Hubs	Expand existing transit centers to provide local feeder service to more remote areas and secondary growth centers.  Add local circulator service in Fort Defiance/Window Rock area to provide access throughout the day to government and activity centers.
	Navajo Transit Facility	Complete construction planning for new facility.
Marketing		Develop marketing program.
Coordination		Partner with other agencies and transportation providers to coordinate transportation services, especially for human services, colleges, employers, and Navajo TANF to increase ridership.
Capital Plan	Equipment	Purchase vehicles, shelters, and other amenities. Fund New Maintenance Facility construction.
Funding	Section 5311 ARRA	Apply for Section 5311 funding. Apply for ARRA funding; possible source of funding for new NTS facility.

At the public open house meetings held for the LRTP, many people noted that there was a need for additional signage to designate the available transit routes, the stop locations, and the schedules. It is recommended that a transit signage program be pursued to encourage ridership and awareness of the transit system that is available.

Navajo Transit provides long-haul type routes between the population centers. Additional investigation should be done to identify if local circulator, call-n-ride or other short trip/demand response type system is supportable with in the growth centers.

# Transit System Long Range Plan:

The Navajo Transit System (NTS) Program under the Division of General Services completed the NTS Five Year Plan in 2009. The NTS plan projects transit demand to increase at 1.4% annually estimating approximately 700,000 passenger trips, generally for and between the primary and secondary growth centers in 2025. The plan outlines strategic goals and objectives for NTS to meet the future demand including increasing ridership and enhancing service quality, capabilities and efficiency. Implementing the NTS strategic plan will be a long-term activity. The basic elements of the NTS strategic plan are summarized in Table V-35.

Table V-35. Navajo Transit Long Range Plan Recommendation

Action Item	Name	Potential Locations	Recommendations
1	Regional Transportation Hubs	Shiprock, Crownpoint, Chinle, Dilcon, Tuba City, Kayenta, Window Rock, Blanding	Construct 8 regional transportation hubs. These facilities would serve as the central location for feeder bus routes to neighboring chapters and secondary growth centers.
2	Facility Upgrades and New Maintenance Facility	Window Rock or Fort Defiance area	Upgrade existing and construct a new maintenance facility. The central facility is at the end of its useful life and should be replaced. Also, minor and preventative maintenance facilities would be included at the Regional Transportation Hubs for vehicles based there.
3	Trunk Routes	Crownpoint-Gallup Shiprock-Farmington Shiprock-Gallup Kayenta-Tuba City	Add Trunk Routes to connect a significant amount of the reservation's population together in a network of intercity bus routes.
		Kayenta-Page Tuba City-Flagstaff Chinle-Window Rock Dilcon-Flagstaff Blanding-Shiprock	Note: Torreon Chapter recommended future extension of Trunk Routes to the community.
4	Feeder Routes	Pueblo Pintado, Torreon,	Create Feeder Routes to connect secondary growth centers and







Action Item	Name	Potential Locations	Recommendations
		Tohatchi, Nageezi, Thoreau, Burnside Sanostee, Tsaille, Sanders, Dilcon, Leupp, Inscription House, Kaibeto, Shonto, Round Rock, Rock Point	neighboring chapters to the Regional Transportation Hubs outlined above. These routes would allow residents to board a local bus near the homes, travel to a Regional Transportation Hub, and transfer to the intercity service.  Note: Torreon Chapter recommended immediate action for Feeder Route extension to the community.
5	Partnerships		Partner with other agencies/transportation providers to coordinate transportation services on the reservation, such as state human services, colleges, employers, and Navajo TANF to increase ridership.
6	Acquisition and Rollover	Vehicle Fleet Locations	Acquire new vehicles. Adequate replacement of vehicles is critical to controlling maintenance costs and providing a reliable service for passengers. A systematic method of vehicle rollover is needed.
7	Technology	Transit Passenger & Maintenance Facilities	Utilize new technology. Technological improvements are a benefit to both passengers and transit operations personnel.

## **Arizona Rural Transit Needs Study:**

The State of Arizona Rural Transit Needs Study provides regionally-based solutions to rural public transportation in Arizona. The Study intended to serve as an objective, analytical basis for establishing Arizona's long-term strategic direction of rural transit service provision. The study found that transit demand in rural Arizona is projected to increase 34 percent from year 2007 to 2016. There are numerous unmet needs for rural transit services in Arizona. Only 18 percent of the estimated demand for rural transit services is currently being met; while only 13 percent is projected to be met by year 2016. Thus additional rural transit service is needed to meet future demand. Establishing roles and responsibilities between the State, COGs, local governments, tribal governments and transit operators will facilitate the development of public transportation service in rural Arizona.

The study noted that additional rural transit services are needed in multiple cities, town. Tribal Reservations, and intercity corridors throughout the State of Arizona. The key market segments should be elderly persons, persons with disabilities, and persons of low income. The primary purpose for rural transit trips include medical appointments, shopping, work, education, personal business and recreation. These findings are consistent with the Navajo Transit System study, discussed previously.

The study documented that expanded 5311 local program services have been identified for the Navajo Transit System, namely between the cities of Flagstaff and Tuba City, Tuba City and Page, and Tuba City and Kayenta.

## **Road Improvement Needs:**

To support the implementation of the NTS long range strategic plan, assuming all of the new truck and feeder routes are established, road improvements of these existing and future NTS routes would ensure safety of both transit riders and general public. Routine pavement preservation is needed on NTS routes to keep them in good condition and safe.

Most of the existing NTS Fixed Routes operate on State highways with three routes on N59 from Many Farms to US160; N12 from Navajo, NM to Window Rock; and N9 from US491 to Crownpoint. The NTS Long Range Plan has also proposed numerous Feeder Routes to provide additional transit services to smaller communities. These are communities with 5,000 - 10,000 transit trips per year and are appropriate for feeder transit services using smaller vehicles to operate on an ad-hoc basis. Paving chapter house access will provide all-weather roads for most of the needed feeder routes. Improvement of IRR routes used for transit operation is necessary for safety of NTS riders and traveling public sharing the roads.

## Railroad Needs:

The Burlington Northern Santa Fe (BNSF) railroad runs along interstate I-40 south of the reservation, and is the only major freight and passenger railroad crossing the Navajo Nation. BNSF connects Albuquerque, NM to the west coast at Los Angeles, CA, and crosses the Navajo Reservation at Nahat'a Dziil (New Lands) Chapter, Church Rock Chapter and checkerboard area in the Eastern Navajo Agency. Freight trains and Amtrak share the BNSF railroad, with stations/stops in Flagstaff, AZ and Gallup, NM.







Rail development is complex and involves various businesses (freight and passenger rail companies). government entities, as well as economic considerations (demand versus supply). The following proposed rail projects have been in discussion but most likely will not materialize for many years to come. Railroad connection needs for these projects, therefore, are not considered.

Table V-36 summarizes the multimodal transportation needs.

Table V-36, Total Mulitmodal Transportation Needs

Transportation needs	Navajo-BIA Road	State Road	County Road	Non-System	Total Miles
	Miles	Miles	Miles	Road	
				Miles	
Airport Access	1.0	0.5	N/A	7.0	8.5
Transit Routes	N/A	N/A	N/A	N/A	N/A
Railroads	N/A	N/A	N/A	N/A	0.0
Need 9. Total	1.0	0.5	0.0	6.0	8.5

# **NEED 10: Other Transportation Needs**

These are transportation needs related to or identified in other tribal and state plans. They include plans to implement rural addressing, to provide emergency services during snow and mud emergencies and hazardous shipment accidents, to provide road access in regions that are underdeveloped because of land disputes, to improve non-system public roads, proposed state and regional transportation plans.

# **Rural Addressing:**

The Telecommunications & Utilities Department under the Division of General Services is taking a lead in the Navajo Nation 9-1-1 and Rural Addressing. Its primary goal is to link each telephone number to a physical address in order to enhance efficiency of emergency and public safety responses to 911 calls. A pilot project is being implemented in Tohajiilee with New Mexico State funds for addressing, road naming and signage installation.

## **Snow and Mud Emergencies:**

Much of the Navajo Reservation soils have high clay content and little ground cover and a large number of the unpaved Navajo-BIA roads pass through low lying areas where snow and rain water collect. Navajo Nation residents thus encounter snow and mud emergencies almost every winter and spring. The majority of Navajos live in scattered homes raising sheep and cattle for supplemental income. Families, seniors and school children getting stranded for days or even weeks due to impassible roads has become a norm of life on the Navajo Reservation. Emergency rescue operations are often difficult or delayed until the weather permits. The Navajo Nation needs more paved roads and maintenance funds to keep roads passable, to reduce the snow and mud emergencies. It needs to build a network of all-weather roads to serve those areas of the reservation where the people live.

# **Hazardous Materials Shipments**

U.S. Department of Energy (DOE) programs transport approximately 5,000 shipments annually of nonclassified radioactive materials and waste for cleanup, research, and development for medical or industrial uses and national defense purposes. The DOE Waste Isolation Pilot Plant near Carlsbad, NM disposes of transuranic waste shipments from other DOE sites. US 666 and I-40 are the main DOE shipment routes going through the Navajo Nation. DOE reported 22 and 50 shipments of hazardous materials through the Navajo Nation in 1998 and 1999 respectively.

Numerous other hazardous material shipments from private and public sectors also cross the Navajo reservation. Emergencies involving hazardous material releases and transportation of such materials across the Navajo Nation have been reported (U.S. Environmental Protection Agency, Region IX). State highways on the Navajo Nation are major hazardous material shipment routes.

To make hazardous material transportation on the Navajo Nation safe, all shipment routes should be paved. Approximately 10.5 miles of N4 from Pinon to the Hopi reservation needs to be paved, so all hazardous shipments can be shipped on paved routes. This will improve safety and pose less danger for the surrounding Navajo communities. Routine maintenance for these routes is also necessary to keep them safe.



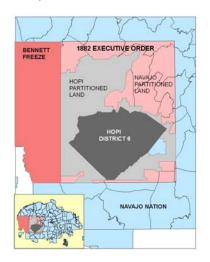




Other hazardous material shipments are transported by the Burlington Northern Santa Fe (BNSF) Railroad crossing the southeast corner of the Navajo Reservation. Approximately 14,000+ shipments of hazardous materials are transported annually on the BNSF

### **Transportation Needs in Land Dispute Regions:**

The P.L. 93-531, Navajo-Hopi Relocation Act of 1974 was an attempt by the Congress to resolve the historical land dispute between the Navajo and Hopi Tribes by dividing the 1882 Executive Order Region into the so-called Navajo and Hopi Partitioned Land portions (NPL & HPL). The Bennett Freeze area is a region west of the 1882 Executive Order Region subject to a 1966 administrative freeze on construction, which was enacted into law in 1980. The freeze on housing and infrastructure construction is a result of litigation to resolve claims derived from 1934 Reservation Boundary Act. After 40 years, in December 2006, the Bennett Freeze was lifted The Court found that no lands are any longer in litigation, and that the restrictions on development contained in the Bennett Freeze are of no longer in effect. This allows Navajos to build their homes through normal processes and procedures through Navajo Nation. The



Former Bennett Freeze (FBFA) Recovery Plan was completed in December 2008 to address the Navajo Nation's development needs in the FBFA. The plan recommends improving approximately 40.0 miles of roads within the FBFA as follows:

N101 \$9 million N20 \$63 million N609 \$6 million N6331/N6330 \$3 million

Other recommended transportation projects include: Traffic Safety Improvement Study \$500,000 Unpaved Road Study \$300,000 Paved Road Study \$300,000 Airstrip \$50,000

Total Cost: \$88 million.

Source: Former Bennett Freeze Area (FBFA) Recovery Plan, 2008.

#### **ADOT I-40 Emergency Plan:**

ADOT has developed an I-40 Emergency Interstate Closure Plan (Map V-16) to detour traffic around Interstate closures in cases of emergencies. These plans would only be used in extreme situations such as earthquakes, hazardous material spills or complete roadway failures. The Navajo BIA routes that are part of the I-40 detours are: N15 from the reservation line west of Leupp to AZ264/US191 intersection in Burnside, N6 from AZ77 at the reservation line to N15 intersection 6 miles north of Bitahochee, and N12 from I-40 in Lupton to St. Michaels.

To safely accommodate heavy traffic during the I-40 emergency detours and prevent pavement deterioration due to excess load, these Navajo routes will need pavement and sub-base reconstruction, redesign of culverts, and roadway widening for N15 and N6 (N12 has been reconstructed and met standards). Estimated detour period is 48 hours with 8,000 trucks per day (ADOT, Holbrook District).

The proposed emergency detours cross 1 bridge on N6, 3 bridges on N12, and 8 bridges on N15. All 12 bridges are rated in good condition and meet standard design load and operating ratings. These IRR bridges should safely carry detour traffic without improvement. However, these bridges are not new and for safety reasons, no more than one truck should be allowed to cross a bridge at a time at a speed no greater than 35 miles per hour. Table V-37 Summarizes the needs to meet the I-40 Emergency Detour use, which are mapped on Map V-17.







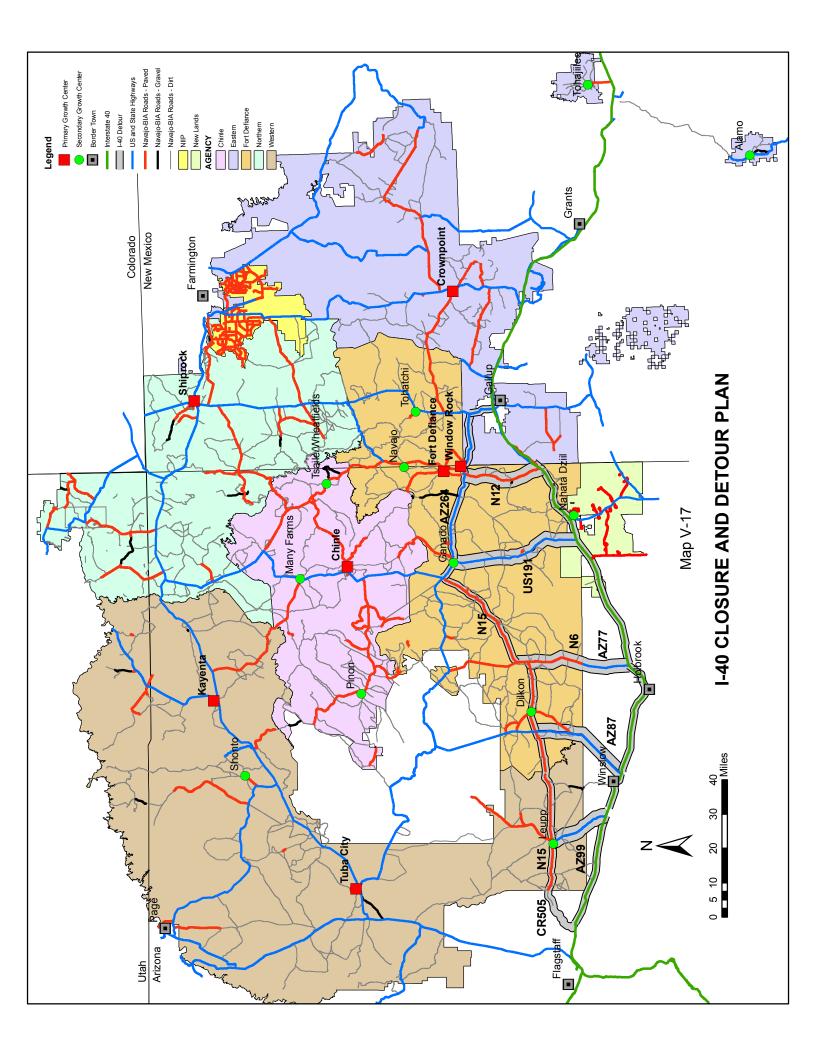


Table V-37 Transportation Needs to Meet I-40 Emergency Detour Use

Agency	Route #/ Location	ВМР	EMP	Total reconstruction and roadway widening (miles)
WNA/ FTD	N15, from reservation line to AZ264 at Burnside.	0	103.1	103.1
FTD	N6 from AZ77 at reservation line to North N15/N6 intersection at Bitahochee.	0	19.9	19.90
FTD	N12 from Lupton to AZ264 Junction in St. Michaels	0	24.7	24.7
Total				147.7

Table V-38 summarizes all of the other transportation needs.

**Table V-38 Total Other Transportation Needs** 

Transportation needs	Navajo- BIA Rd Miles	State Road Miles	County Road Miles	Tribal Roads	Total Miles
Rural Addressing: Miles of unimproved County and Tribal Roads needing improvements.		N/A	1,735.8	2,812.7	4,548.5
Snow and Mud Emergencies: Miles of unimproved Navajo-BIA Roads needing improvements.	4,238.6				4,238.6
Hazardous Material Transportation: Miles of shipment routes needing improvements	10.5	N/A	N/A	N/A	10.5
Improve 40.0 miles of Navajo-BIA roads in Former Bennett Freeze .	40.0				
I-40 Closure/Detour: Miles of Navajo-BIA roads used in emergency detour needing improvements	147.7	N/A	N/A	N/A	147.7
Need 10. Total	4,436.8	0	1,735.8	2,812.7	8,985.3

### **NEED 11: Cultural Environmental Considerations:**

IRR long-range transportation plans are required to consider the impacts of existing and proposed transportation system on the environment, and balance the needs of development and the environment (i.e., wildlife, plant life, clean air and water, etc.). This Navajo Nation's cultural and environmental resources are protected under the National Historic Preservation Act, NEPA, Endangered Species Act, Clean Water Act and Clean Air Act. They are considered as follows.

### **Archeological and Historical Resources:**

Any federally-funded action requires the identification and evaluation of historic properties in accordance with the requirements of Title 36, Code of Federal Regulations (CFR) Part 800, Section 106- the review process established in the National Historic Preservation Act. Title 49, United States Code (USC), Section 303 (originally Section 4(f) of the Department of Transportation Act of 1966) specifies that special efforts be made to preserve the natural beauty of the countryside and public park and recreation lands, wildlife and waterfowl refuges and historic sites. For these reasons, listed or eligible historic properties and areas expected to have high density of historic properties have been identified as important considerations associated with the transportation planning of the Navajo Nation.

The entire Navajo Nation is rich with archeological and historical resources. Evidence of prehistoric Navajo habitation on the present day Navajo Reservation and surrounding area is recorded in various archeological investigations, studies required for development on the reservation, the Navajo and Hopi land dispute litigation and fuel resources development. These archeological investigations, including studies of Navajo migration, and other publications cite evidence of Navajo settlements throughout the region. In general, the Navajo settlement in the area ranges from one ruin per 4 square miles for highest density site to one ruin per 33-167 square miles. The concentration of ruin sites appears to be related to pinon-juniper zones where hunting, gathering and alluvial farming could be practiced.

Evidence of Hopi and Anasazi occupations is also found near the Hopi reservation and the surrounding areas making the Navajo lands bordering the Hopi Reservation particularly rich in archeological and historical sites. This greatly impacts planning of the road construction. Clearances of past road construction projects have taken longer time due to the many archeological sites.







Planning for new road construction, such as new street expansion for Growth Center communities (NEED 6) and proposed airports' access roads (NEED 9) will require longer time for archaeological clearance. Other road construction projects involving widening or realignments such as N7 from Canyon De Chelly to Sawmill (NEED 1), N4 from Pinon to Hopi Reservation (NEED 10) will also be subject to additional archeological clearance work thus, will need extra project planning time.

### Wildlife:

The Navajo Nation is unique for its natural resources. It is a large Indian reservation with low population and development density and a rich natural environment. The reservation has become a sanctuary for wildlife, rare animals and plant life. The Fort Defiance Plateau and Chuska Mountains have been identified one of the Arizona habitats for the endangered Mexican Spotted Owls.

The Endangered Species Act protects populations and habitat of a variety of listed species of plants and animals on federal lands. The Navajo Reservation, as trust land, is subject to all provisions of the Act. All projects on the reservation which require federal or tribal review, even commercial and home site leases, must be reviewed for possible impacts on listed species. These must be documented in the Environmental Assessment (EA), which accompanies the project documents in the review package.

Planning and design of road projects must meet the Endangered Species Act requirements when applying for right of way clearance. Project planning should provide enough lead time for a lengthy review process and required species surveys. When planning for widening of an existing roadway, environmental clearance will be required as well. Three years should be a nominal time for project R.O.W clearance in general. Proposed road projects in Fort Defiance Plateau and Chuska Mountains such as N13 over the Buffalo Pass will require a lengthy survey and review process since it is in sensitive habitat. The road R.O.W. width should also be reduced to the minimum requirement to minimize impacts to the habitat of the endangered species.

#### Wetlands:

Federal law on wetlands (E.O. 11990) mandates protection of all wetlands on public lands. Wetlands in an arid region are groundwater recharge areas. Wetlands house rich wildlife habitats and plant communities. Wetlands that are part of drainage channels/systems are crucial to the overall drainage system. They connect the system and maintain the existence of the ecosystem. Wetlands contribute to groundwater recharge. Alluvial deposits such as in wetlands allow water to infiltrate through underlying rock fractures, allowing the recharge of ephemeral streams. Wetlands in high altitude/headwater areas that are often found interwoven with forested areas allow water to percolate through underlying unconsolidated rocks.

The Navajo Nation wetlands are of both permanent and seasonal characteristics influenced by its climatic condition, drainage pattern and soil development. Permanent wetlands are found along washes and major drainage channels such as the Little Colorado River, San Juan River, Chaco River and Chinle Wash and their tributaries. Most seasonal wetlands are often a part of pond and lake system. The Nation wetlands are found more in the eastern region than in the western part of the reservation. The majority of them are found around headwater areas in the Defiance Plateau, Chuska and Carizzo mountains. Others are often small sparse ephemeral wetlands created by seasonal floods or rain storms. Wetlands in the western region are found at high altitudes where precipitation concentrates, such as Navajo Mountain and Black Mesa areas. Others are perennial lakes that are part of interrupted drainage systems and ephemeral streams. There are many small ephemeral lakes, as typified in Red Lake/Tonalea Chapter along Moenkopi Wash and Tolani Lake in the Oraibi Wash drainage.

Wetlands on the Navajo Reservation are sensitive. Prolonged drought can eliminate a wetland completely. Other mechanisms that sustain wetlands include groundwater discharge, non-disruption of surface drainage system and ground cover. Destruction of wetlands may interrupt or even destroy the entire ecosystem--drainage system, plant or animal communities or drying up our water supply. Road development should avoid wetlands, especially those that are part of an overall drainage system. Road development should be carefully planned to avoid the destruction of wetlands especially at headwater recharge areas such as in the Defiance Plateau, Chuska and Carizzo Mountains and Black Mesa.







### Water Quality:

The federal Clean Water Act of 1972, (33 U.S.C., Sec. 1251-1376) contains provisions for regulating and maintaining ground and water surface quality. The Clean Water Act is administered by the U.S. EPA and by the Navajo Nation EPA. The main impact of the Clean Water Act on highway development and construction is through its regulation of non-point sources of water pollution.

Unimproved dirt roads erode easily, their sediments often entering surface drainage watercourses. Since a high proportion of Navajo Reservation roads are unimproved dirt, upgrading these roads could be a significant element of future Navajo Nation plans for controlling non-point source pollution of surface waters.

Future road construction projects will in all likelihood have to meet some standards for runoff control, and will require permits by Navajo EPA. Compliance with applicable Clean Water Act provisions as administered by Navajo EPA should be factored into funding and scheduling calculations for future road projects.

### Air Quality:

The Clean Air Act amendment of 1990 requirements applies mostly to metropolitan transportation planning. Transportation-related pollutants must be addressed in planning for an area designated non-attainment (not attained to the National Ambient Air Quality Standards) or a maintenance plan must be implemented under Clean Air Act section 175 A (i.e. ozone, carbon monoxide, nitrogen dioxide, and particles with an aerodynamic diameter of less than or equal to a nominal 10 micrometers, etc.). The Act requires incorporation of appropriate measures for air pollution control or congestion reduction to protect the public health. A program such as the implementation of high occupancy vehicle lane in some metropolitan areas is an example of a congestion reduction measure.

Most communities and areas on the Navajo Reservation are classified as attainment or unclassifiable, except for a small area in the northwest New Mexico that is classified as non-attainment area due to generation stations emission. Nonetheless, this is not a transportation-related non-attainment designation. The Navajo Nation has approved its air quality codes (Air Pollution Prevention and Control). These codes mostly deal with industrial pollutants. The Navajo Nation Environmental Protection Agency is currently concerned about road construction projects. On the Navajo Reservation, air pollution from transportation-related activities is usually caused by road construction, since during road construction particulates may be produced beyond the acceptable level. The Navajo EPA follows State and Federal EPA criteria and procedures for determining conformity for the reservation attainment areas regarding road construction.

The Navajo Nation Growth Centers have become urbanized. Traffic congestion occurs briefly during rush hours in some communities because these communities are served by few roads. Development mainly clusters along the main roads or at intersections. Growth Centers are the fastest growing communities, fueled by development planned by the Navajo Nation. These communities will need urban street systems soon to accommodate future traffic and provide even distribution of traffic to prevent air pollution caused by the traffic congestion. Chinle, Kayenta, Tuba City, and Shiprock have high population as well as tourist traffic. Their needs for urban street systems have become apparent, especially during the tourist season.

#### **Considerations and Needs:**

In all, a balance between development and protecting these delicate resources must be exercised to minimize the impacts of road construction and promote development without destroying the Navajo Nation's valuable cultural and natural heritages. A balance can be achieved through careful planning and engineering.

Future Transportation Plans: Future planning such as street expansion and plans have been proposed for the Navajo Growth Centers to cope with growing population and development at these communities in the future. Good street system, such as those in other urban areas can prevent traffic congestion and air pollution by distributing traffic more evenly. No new roads are proposed to avoid opening up of new areas and disturbance to archeological, wildlife habitats, wetlands and drainage channels. Paving unimproved roads have been proposed and given priority to reduce erosion and sediments to water courses and particulate air pollution.





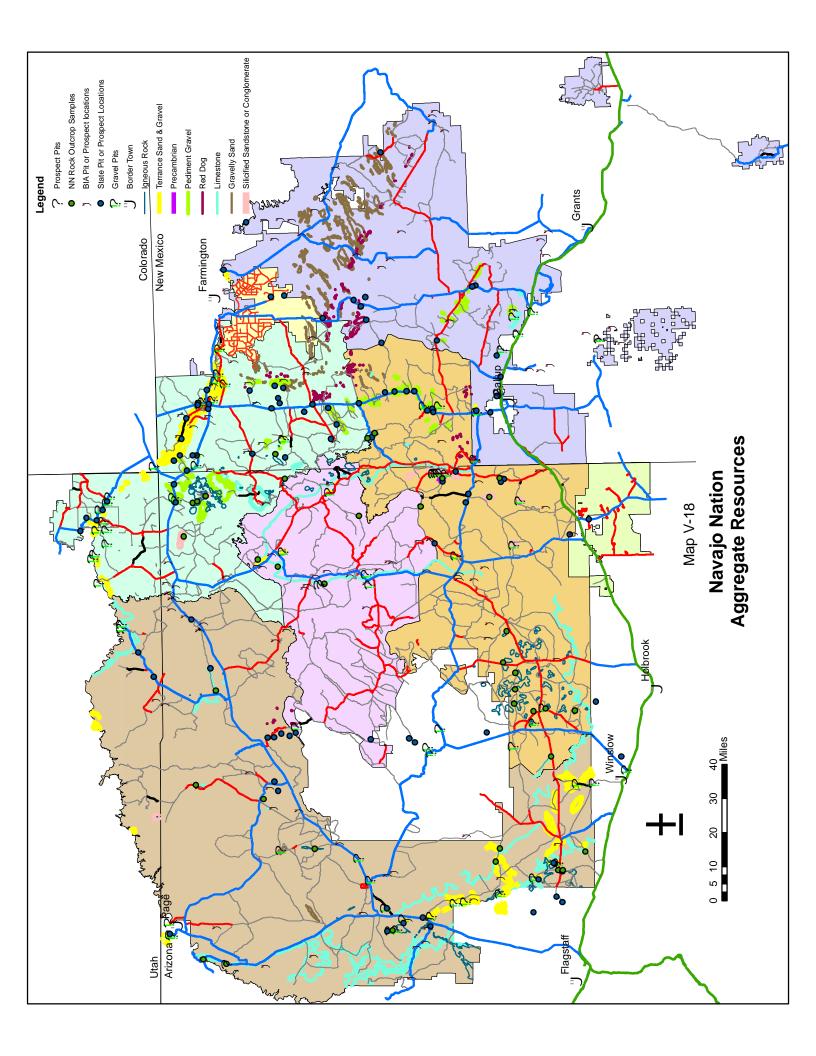


- Project Planning: Adequate time is recommended for surveys of archeological as well as
  environmental resources, and the R.O.W review process for most projects. Project planning
  should include three years for R.O.W assessment and clearance process prior to construction. To
  assure minimum disturbance to the environment, problems must be identified during these
  surveys and assessments and engineering solutions must be developed.
- Engineering: Engineering and design of road projects must identify and mitigate drainage problems, soil erosion, channel erosion, and other environmental impacts. Road improvements in sensitive areas must minimize impacts to the surrounding environment such as minimizing R.O.W. width to minimize disturbance to archeological resources, and plant and animal communities (e.g., N7 from Canyon De Chelly to Sawmill).
- Environmental Studies: The R.O.W. clearance process is a crucial element in identifying and protecting cultural and environmental resources. Sound and complete archeological and environmental studies should be completed for all construction. These studies should be structured to include strong and useful alternatives for protecting cultural and environmental resources or mitigating a project's impacts on them. Based on past Navajo IRR budget, the estimated need for project environmental and archaeological assessments are \$100 million for 20 years or \$5 million per year.









#### Other Resources Issues:

Aggregate and water resources costs for road construction on the Navajo Nation have become more and more expensive. Great distance between projects, availability and transportation of construction materials all contribute to the high cost.

### **Aggregate Resources:**

In 2005 the Division of Natural Resources Minerals Department completed the survey and mapping of all aggregate resources on the Navajo Nation. The findings show that the Navajo Nation has aggregate resources that make available for road construction and maintenance. These aggregate resources are scattered throughout the Navajo Nation and can be summarized by agency as follows:

#### Northern Navajo Agency:

San Juan River is the major source of quality gravel on the Navajo Nation, from Farmington to Aneth, Utah. Materials are unconsolidated and various in size from sand and gravel size to boulder size thus reduce cost for quarry and crushing. Carrizo Mountains are large sources of pediment gravel and igneous rock. Newcomb has pediment deposits with ABC quality. Bands of limestone, sand, sediment gravel and more igneous rocks are also scattered.

### Western Navajo Agency:

East of Colorado River to US89A and US89 from Gap to Marble Canyon is a good source for limestone. Grand Falls, west of Leupp, and along N70 areas have high quality porous limestone with high magnesium carbonate good for gravel requiring quarry and crushing. South-southwest of Leupp has good quality Igneous-basalt sediment but needs to be quarried for processing. Shadow Mountain near Tuba City is an old mine with quality basalt sediment. Shadow Mountain west of US89 has basic infrastructure gravel.

Navajo Bridge in north Western Navajo Agency has quality gravel material for bus routes. Mexican Hat has limestone sediment, good quality for ABC material.

#### Fort Defiance Agency:

Precambrian Quartzite quarry sites located in Blue Canyon in Ft. Defiance area and Hunter's Point have the highest quality gravel for cement and asphalt. Basalt sediments in Hopi Buttes, Dilkon, Indian Wells areas are good quality materials for gravel and cement. Indian Wells basalt quarry currently is in operation by a private firm. Limestone sediment southeast of Greasewood to Leupp (Chinle Plateau) is good-to-fair quality gravel source for bus routes.

#### Eastern Navajo Agency:

There are no quality aggregate sources in most of the Eastern Agency, however, there is a lot of low quality sand gravel. Currently gravel has to be hauled from Farmington and/or Thoreau, NM. Chinle Agency:

Rock outcrops along US191 and Chinle Wash is a good source for limestone.

#### Recommendations:

- The Navajo Nation with its oversight committees could develop a strategic plan in developing aggregate resources and resolving this issue. There are several avenues that the Navajo Nation can develop its aggregate resources:
  - NECA can develop gravel pits to supply gravel and sand for road construction and maintenance.
  - The Navajo Nation and Chapters partner with other entities to develop gravel pits.

Several projects have been in progress as follows:

- Carrizo Gravel Pit Project. The Navajo Division of Transportation is currently partnering with the Apache County on the Carrizo Gravel Pit Development as a pilot project. The Navajo DOT is responsible with land withdrawal and the County with its operation.
- Dennethotso Gravel Pit. Another partnering project between the Navajo Division of Transportation and Apache County.
- Peabody Red Dog Gravel Project. The Peabody Coal Company in Black Mesa is working
  with the Navajo Nation. It offers to make available its coal mine tailings known as 'Red Dogs'
  gravel to the Navajo Nation. The project is now only waiting for the final agreement with the
  Nation.
- Shiprock partnership with NECA on a gravel pit project.
- Gadiaaha and Sanostee are partnering with private companies on gravel pit projects.







- 3. Partnership with railroad companies to have aggregate transport by rail to the Navajo Nation. Rail transport cost is less than trucking cost.
- Resource Development Priority: The plan recommends that the first priority be aggregate resources in Shiprock Agency, i.e., San Juan River and Charizzo resources; the second be Fort Defiance Agency resources because these produce quality aggregates that withstand weigh better than limestone sources.
- The Navajo Nation and its oversight committees need to develop policies to support aggregate resources development. There are critical works that need to be done prior to actual resource development and are often seen as project obstacles because they usually delay or derail a project. Various actions and program partnership need to be resolved on a number of issues:
  - 1. Navajo Nation Permits: Presently, the Mineral Department can only permit gravel extractions of only 5,000 cu. yards per year. This will not meet the demand of all road constructions. The regulation may have to be changed with special intergovernmental collaboration.
  - 2. Land User Support: Grazing boards must be involved and agree upon at the earliest stage of the project development. Land users need to give consent or compensation.
  - 3. Chapter Support: Chapters need to be involved and
  - 4. Archeology and Environmental Assessments: The process is long and often delays projects thus need to done early.
  - 5. Navajo Nation Contractual Process: The process often discourages contractors, needs to involve those who approve contracts early on for efficient planning.

#### Water Resources:

Well water is the source of water used in road construction. In general, contractors will drill a well near the road construction site. For the most part of the Navajo Nation, groundwater is available and this is preferred practice than the costly hauling of water to the construction sites.

Groundwater is found in four major aquifers underlining the Navajo Nation: 413, 290, 50 and 1.18 million acre-feet are estimated water storage capacity for Coconino, Navajo, Dakota and San Juan Aquifers. Also available are alluvial aquifers underlining many of the washes on the Navajo Nation. Drilling depth is ranging from 200-1000 feet deep. For the most part of the Navajo Nation, contractors can drill a 200-foot deep well for road construction usage except in the farther west of the Western Navajo Agency and a certern part of the Chinle Agency.

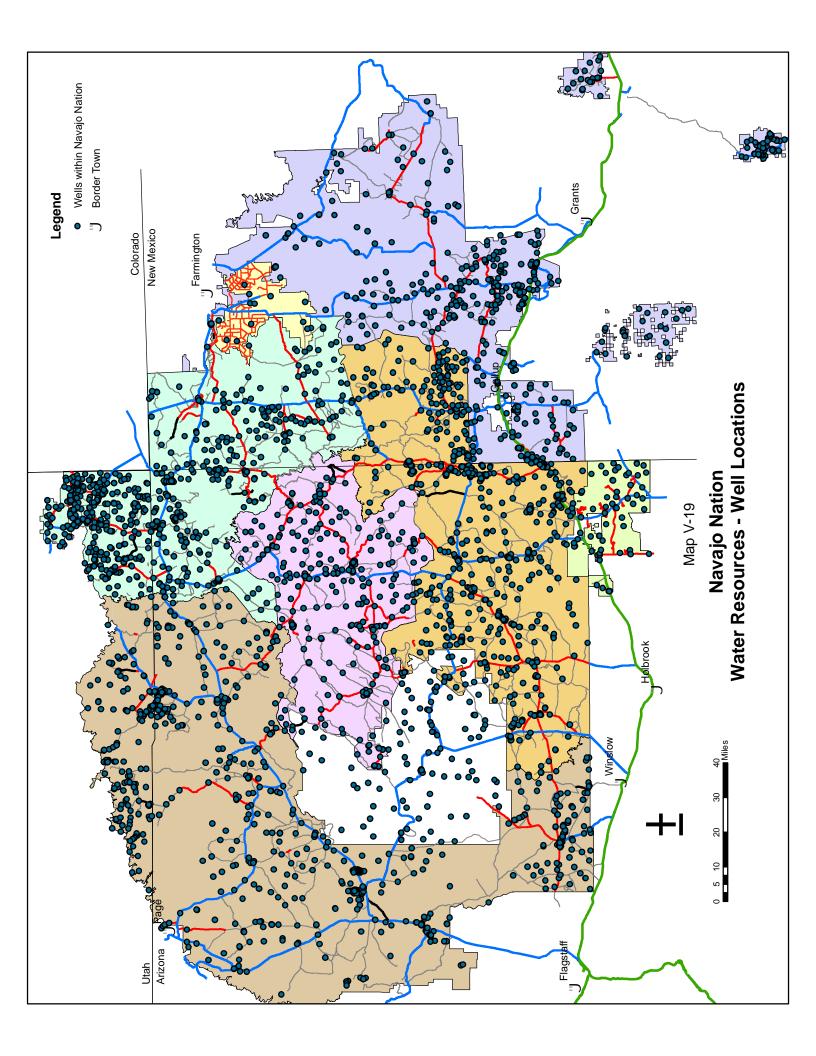
#### Recommendations:

- The Navajo Nation with its oversight committees could develop a strategic plan in developing water resources to resolve the water issue.
- Allow contractors to tap into abandoned well or seek the IHS permission to use their existing wells. The Department of Water Resources has database on well location, ownership, and depth of water table. It plans to do a water need study by chapter. A road construction's water need should also be included. The Navajo DOT can assist with Water Resources in identifying water resources in association with project locations.









# C. TOTAL NEEDS

Table V-39 summarizes overall findings and long range transportation needs discussed in this chapter (NEEDS 1-11).

**Table V-39. Total Transportation Needs/Findings** 

	<del>5.0 1 00. 10.</del>	i Transportation Needs/Findings	ı	1		1	T-1-1	T-1-1
							Total 2009	Total 2003
			Navajo-				LRTP	LRTP
			BIA	State	County	Tribal	Needs	Needs
			Road	Road	Road	Road	Needs	Necus
Tr	ansportation Nee	ds/Findings	Miles	Miles	Miles	Miles	Miles	Miles
1	Highway	To meet highway design guidelines	5,955.4	N/A	N/A	N/A	5,955.4	5,352.5
	Geometric Design Deficiencies	based on 20-yr ADT, 5,955.4miles of Navajo-BIA roads need surface upgrade and roadway widening.	0,000.4	IN/A	IWA		0,000.4	0,002.0
	Donoionoioo	and rodding maching.						
2	Network Connectivity	89.7 miles of Class 2 roads need to be paved, and 90.0 miles of Class 4 meet criteria for Class 2 definitions and need to be paved.	179.7	N/A	N/A	N/A	179.7	230.7
3	Pavement Deficiencies	1,313.8 miles of Navajo-BIA roads have severe pavement and need reconstruction. 27.6miles have moderate pavement and need rehabilitation.	1,341.4	N/A	N/A	N/A	1,341.4	898.2
4	Safety Needs	Safety improvement corridors and high crash locations make up 23 percent of the crashes. Safety improvements at these locations should be further studied	33	100	0	N/A	133.0	109.3
5	Chapter Access Needs	16 chapter houses lack paved access roads: 149.8 of Navajo-BIA roads and 15.0 miles of County roads need paving.	149.8	N/A	15	N/A	164.8	230.1
6	Growth Centers Street Needs	To meet future population and development needs: Six Primary Growth Centers need 22.8 miles of 5-lane streets, 70.1 miles of paved 2-lane streets, and 21.7 miles of graveled roads; 30.9 miles of street lights; and evaluation for 26 traffic signalizations.	99.7	15.0	N/A	N/A	114.7	114.7





<u>Tra</u> 7	Transportation Needs/Findings  7			State Road Miles N/A	County Road Miles N/A	Tribal Road Miles N/A	Total 2009 LRTP Needs Miles N/A	Total 2003 LRTP Needs Miles 3,021.7
8	Scenic Byways, Tourism & Recreation Needs	67.5 miles of roads providing access to tribal parks need to be paved.	38.5	N/A	7.0	22.0	67.5	195.4
9	Multimodal Transportation	Airport Development: 8.5 miles of new access roads need to be constructed. Transit Routes: Implement 5-year plan; expand and provide transit centers; local circulator service in Growth Centers.  Bicycle Routes and Sidewalks need improvement, connectivity and new routes need to be constructed.  (See Tables in Chapter 5.B. Need 9)	1.0	0.5	0	7.0	8.5	422.5
10	Other Transportation Needs	Rural Addressing and Snow and Mud Emergencies: 4,238.6 miles of Navajo-BIA, 1,735.8 miles of County Roads, and 2,812.7 miles of Tribal Roads are unpaved. Improve these will address these issues. Improve 10.5 miles of Navajo-BIA roads for hazardous material shipment route. Improve 40.0 miles of unpaved Navajo-BIA roads in former Land Dispute areas, and 147.7 miles of roads used for I-40 emergency detours need improvements. (See Tables in Chapter 5.B. Need 10)	4,436.8	0	1,735.8	2,812.7	8,985.3	5,239.8
11	Cultural/ Environmental Considerations	To minimize environmental and cultural impacts of proposed transportation projects through implementing necessary environmental assessment.	N/A	N/A	N/A	N/A	N/A	N/A





# CHAPTER VI - Conclusions and Recommendations for Navajo-BIA Mobility Improvements

# A. Improvement Types and Mileage

The Navajo-BIA roads' long range transportation needs are identified and summarized in Chapter V, Transportation Needs Assessment. These needs are the result of past inadequate funding of the Navajo Indian Reservation Roads Program. The Navajo-BIA roads' long range transportation needs and issues include the needs to improve roads to meet the federal design standards and to keep up with Navajo Nation population, traffic volume, and economic growth.

The Navajo-BIA roads' long range transportation needs summarized in Table VI-1 are recommended improvements to the overall Navajo-BIA system by road class to meet the current design standards. These include correcting system deficiencies, improving safety while meeting Navajo Nation development needs. To address these unmet and future transportation needs, a total of 5,955.4 miles of Navajo-BIA roads needing upgrade and 1,341.4 miles needing to address pavement deficiencies. These are summarized by road class and construction type as follows:

- Navajo-BIA Class 2 and 4 Road Upgrade: To improve network connectivity and to meet the 81 IAM and AASHTO highway design and improvement standards. Improvement of these arterial and major collector roads will also address other transportation needs such as community and economic development needs, scenic byways, intermodal connections and other transportation needs.
- Navajo-BIA Class 5 Road Upgrade: To improve access to rural areas to make connections
  within the grid of the IRR system. These roads serve areas around Navajo communities, chapter
  house access, farming areas, school access, tourist attractions, or various small enterprises,
  forests, grazing, mining, oil, recreation, or other uses.
- Navajo-BIA Class 3, 6, and 7 Street Upgrade: Class 3, 6, and 7 roads serve within Navajo urban and community areas providing access to schools, residential, commercial, and government offices areas. They carry moderate to heavy traffic and much of these roads are in poor to severe conditions due to the lack of adequate IRR funds. NHA housing streets are the best example. Most NHA streets badly need reconstruction. The pavement deficiency analysis (Chapter 5 Need 3) identifies the need to improve these roads thus improves residential and community areas access.
- Safety Improvement: Several areas of safety improvement are needed to address the broad reaching areas of improving multi-modal safety throughout Navajo Nation.





Table VI-1 Navajo-BIA Roads' Long Range Road Improvement Needs in Miles

Table	vi-i itavaj	יאו אום-ט			ı improvement	ivecus ili miles		
			Miles of	Miles of	Miles of			
			Roads	Roads	Roads			
			Needing	Needing	Needing			
			Only	Only	Suface Imp &		2009 LRTP	2003 LRTP
400	01.400	FADT	Suface	Roadway	Roadway	Out Tatal	Total By	Total By
ADS	CLASS	FADT	Imp	Widening	Widening	Sub-Total	Class	Class
1	1-Major	N/A	0.9	0.1	0.3	1.3		0.0
2	Arterial	N/A	2.0	0.8	0.0	2.8	4.1	0.0
3		N/A	0.0	0.0	0.0	0.0		
4			5.9	13.8	54.0	73.7		
5	2-Rural	>=400	8.7	184.0	397.1	589.8		
6	Minor		5.3	11.5	2.7	19.5	754.6	917.7
7	Arterial		0.0	0.0	0.0	0.0	734.0	317.7
8	711101101	<400	0.0	24.3	23.0	47.3		
9			0.0	0.0	24.3	24.3		
10		>250	17.5	15.0	138.2	170.7		
10		50-250	1.8	5.2	365.8	372.8		
11	4-Rural	>250	38.6	136.9	988.7	1164.2		
11	Major	50-250	33.7	82.0	1668.6	1784.3	3757.0	4468.1
11	Collector	<50	0.0	1.1	0.0	1.1		
12		>250	1.9	0.0	76.6	78.5		
12		50-250	0.0	0.0	185.4	185.4		
13		>400	0.1	5.5	43.1	48.7		
13		50-400	125.3	6.6	18.1	150.0		
14	5-Rural	>400	2.9	28.5	72.0	103.4		
14	Local	50-400	68.5	14.7	806.2	889.4	1402.1	0.0
15		>400	0.0	0.0	8.4	8.4		
15		50-400	0.0	0.0	202.2	202.2		
10	6-City	00 400	0.0	0.0	202.2	202.2		
	Min							
16	Arterial	N/A	0.0	0.9	2.6	3.5	3.5	0.0
	7-City							
17	Collector	N/A	0.0	0.0	0.0	0.0	0.0	0.0
	3-City							
18	Local	N/A	8.8	23.5	1.8	34.1	34.1	61.5
						Grand Total:	5955 4	5447 3

Grand Total: 5955.4 5447.3

•





#### B. Improvement Cost

To improve 5,955.4 miles of the Navajo-BIA road system to meet the design standards will cost \$6.5 billion (Table VI-2). To address pavement deficiencies of 1,341.4 miles of paved Navajo-BIA roads alone (Chapter 5 Need 3) will cost \$1.4 billion. However, when upgrade roads to meet the design standards, pavement conditions will also be addressed. It is safe to say to address the overall Navajo-BIA road system deficiencies, the Navajo Nation will need approximately \$7.0 billion. This figure is seven times the current 20-year funding level of the Navajo IRR Program which has been about \$1 billion or \$50 million per year. Table VI-1 summarizes and compares improvement costs between LRTP 2003 and LRTP 2009 improvement needs of the Navajo-BIA roads. The drastic increase from 2003 cost is partly due to the nearly double in construction cost in recent years caused by fuel cost increase.

Table VI 2 Navaia PIA Poad Improvement Cast (in Émillians)

Table	VI-2 Nav	<u>ajo-BIA</u>	Road Impr	ovement Co	st (in \$millio	ns)		
ADS	CLASS	FADT	Miles of Roads Needing Only Surface Imp	Miles of Roads Needing Only Roadway Widening	Miles of Roads Needing Surface Imp & Roadway Widening	Sub-Total	2009 LRTP Total By Class	2003 LRTP Total By Class
1		N/A	\$1,621.18	\$97.55	\$287.98	\$2,006.71		
2	1-Major	N/A	\$3,602.63	\$1,017.41	\$0.00	\$4,620.04		
3	Arterial	N/A	\$0.00	\$0.00	\$0.00	\$0.00	\$6,626.75	\$0
4			\$3,962.52	\$6,578.34	\$46,971.29	\$57,512.16		
5			\$17,184.79	\$143,682.36	\$613,970.89	\$774,838.04		
6		>=400	\$7,080.76	\$3,064.10	\$3,367.38	\$13,512.23		
7			\$0.00	\$0.00	\$0.00	\$0.00		
8	2-Rural Minor		\$0.00	\$17,256.06	\$18,497.88	\$35,753.95		
9	Arterial	<400	\$0.00	\$0.00	\$28,738.92	\$28,738.92	\$910,355.29	\$705,236.00
10		>250	\$20,997.81	\$17,213.29	\$153,547.83	\$191,758.94		
10		50-250	\$1,655.74	\$3,156.54	\$336,300.83	\$341,113.11		
11		>250	\$17,436.49	\$108,964.78	\$1,169,256.91	\$1,295,658.18		
11		50-250	\$26,248.70	\$71,139.17	\$2,036,678.17	\$2,134,066.04		
11	4.5	<50	\$0.00	\$236.23	\$0.00	\$236.23		
12	4-Rural Major	>250	\$650.75	\$0.00	\$61,130.04	\$61,780.79		
12	Collector	50-250	\$0.00	\$0.00	\$125,286.15	\$125,286.15	\$4,149,899.44	\$3,481,606.00
13		>400	\$90.84	\$3,879.43	\$31,595.85	\$35,566.11		
13		50-400	\$66,262.56	\$1,552.15	\$10,592.06	\$78,406.76		
14		>400	\$6,021.29	\$19,050.97	\$82,582.36	\$107,654.62		
14		50-400	\$70,716.81	\$6,796.71	\$933,346.86	\$1,010,860.37		
15	5-Rural	>400	\$0.00	\$0.00	\$9,184.22	\$9,184.22		
15	Local	50-400	\$0.00	\$0.00	\$154,644.98	\$154,644.98	\$1,396,317.06	\$0
16	6-City Minor Art	N/A	\$0.00	\$423.78	\$1,534.00	\$1,957.78	\$1,957.78	\$0
17	7-City Collector	N/A	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0
18	3-City Local	N/A	\$13,675.30	\$12,962.03	\$1,062.00	\$27,699.33	\$27,699.33	\$31,535.00
						Grand Total:	\$6,492,855.65	\$4,218,377.00

#### C. Implementation Plan

To address the Navajo Nation's long range transportation needs, this plan recommends planning and implementation strategies. These strategies should be adopted and meticulously followed by Navajo Indian Reservation Roads transportation decision-makers at all levels. Elected and administration decision makers should set long and short range road improvement goals and objectives to meet these needs. Long and short range road improvement planning and prioritization criteria must have the same







objective of meeting the transportation needs and goals. This plan also recommends seeking other sources of funds to supplement the Indian Reservation Roads Fund.

# 1. Long Range Goals and Objectives

To address the Navajo Nation's long range transportation needs and issues, the long range planning and implementation of the Navajo-BIA road improvements must address and include the long range goals and objectives as follows:

- To upgrade roads to meet design standards and management system requirements to correct deficiencies as well as to improve overall network connectivity, travel mobility and accessibility.
- To improve travel safety and reduce accidents on the Navajo-BIA roads.
- To meet existing and future transportation needs in order to promote community and economic vitality.

# 2. Funding Strategies

To meet the Navajo-BIA roads' long range transportation needs, the Navajo Nation's transportation decision-makers must explore all avenues to increase funding of Navajo-BIA road long range improvements. This LRTP recommends the following strategies:

- Seek to increase the Navajo IRR funding level through lobbying. Under the Federal Lands Highway Program, IRR Program funding needs are factored by population and development growth (through ADT) unlike other FLHP programs, (i.e., Park roads and Parkways, Public Lands Highway Discretionary, Forest Highway and Refuge Roads). These other FLHP roads do not carry the high levels of daily traffic that wear out roads at greater rate: their road miles and traffic volumes are relatively constant. Legislative formula should be established to allocate funds among FLHP programs based on actual needs, instead of each program's relative share.
- Seek funding from the IRR Nationwide Bridge Priority Program to help meet the Navajo IRR bridge improvement needs.
- Seek other funding sources such as the Indian Highway Safety Program (\$1.1 million annually), federal Hazard Elimination Program (\$550 million annually) which funds safety improvements on highways administered by State and the BIA.
- Seek other funding sources such as Public Land Highway Discretionary Funds for Navajo scenic byways projects and/or State Transportation Enhancement Fund for bicycle and pedestrian paths.
- Seek state/federal share of funding for improvement of Navajo-BIA routes to be used as detours during I-40 emergency closures.
- Use the Navajo Nation Fuel Excise Tax to supplement the IRR funds.
- Fund projects according to project/need priority.
- Taxing: Currently, Kayenta is the only primary growth center with a self imposed sales tax of 2.5 percent. It is recommended that the primary and secondary growth center communities work with the Division of Economic Development to identify and implement self funding mechanisms to aid in enhancing infrastructure investment, ultimately improving economic development opportunities for those that wish to invest within Navajo Nation.

The funding opportunities that are identified should be integrated into the ARCs and overall strategic Implementation Program for any recommended transportation improvements within the communities. This provides an opportunity for community, Agency, and ultimately Nation buy-in for ultimate investment and community growth.

# 3. Project Prioritization Criteria

Project prioritization becomes crucial when funding is inadequate. Priority should be given to projects in the order from the most needs/benefits to the least critical. Addressing these priority projects first will most effectively use limited resources to address the Navajo Nation's long range transportation needs. This plan recommends that Navajo Nation transportation decision-makers at the agency and Navajo Nation levels prioritize and implement road improvements according to the prioritization criteria described in Table VI-3 below: Each transportation project shall be rated based on the planning and engineering criteria by assigning points based on each engineering criterion. A project with the highest points will indicate that the





project has the most transportation needs or provide most benefits and also the most ready for construction thus should be given the highest priority.

**Table VI-3 Long Range Transportation Planning Priority** 

Points assigned	Project Type			
5-High Priority Projects	Immediate, core transportation needs and issues raised by local chapters, tribal programs, school, healthcare providers, housing programs, intermodal needs as well as BIA engineers.			
	School bus routes			
	NHA housing streets and access roads			
	Class 1 & 2 road improvement needs			
	Class 3 & 6 roads-pavement deficiencies			
	Safety improvements, sidewalks			
	Class 1,2 & 4 roads-pavement deficiencies			
	Economic and community development access needs			
	Bridge projects			
3-Moderate Priority Projects	Transportation needs and issues that are recommended for action after the high priority needs have been met and if funds are available.			
	Growth center proposed streets			
	Class 4 & 5 roads-improvement upgrade			
	Scenic byways and park access			
1-Low Priority Projects	Important transportation issues and needs to be implemented last. If IRR funds are limited, should be funded from outside resources.			
	Bicycle routes			
	Other transportation needs			
0	Not a 20-year need nor listed on the LRTP			

# D. Safety Improvements

Public safety on the Navajo Nation roadways was identified as a key concern of residents, survey respondents and public meeting participants. There are essential components of safety improvements that can improve the overall modal safety within Navajo Nation, including:

- Safety Improvement Program
- Open Range Policy
- Access Management
- Signing Program
- Striping Program
- Crash Data Coordination
- Data Organization Standardization
- Retrieval
- Analysis

# 1. Safety Improvement Program

An annual Safety Improvement Program should be established to develop a systematic approach for crash mitigation based on reported crash data. The crash data, coupled with the IRR Roadway Inventory database will provide the data necessary to understand the high crash location areas throughout the Navajo Nation transportation system.

The Safety Improvement Program should be based on two categories of safety analysis, including the calculated crash rate and the raw number of crashes based on three years of historic crash data. Projects that would be evaluated in the Safety Improvement Program would include those segments and spot locations/intersections that exhibit a higher than average number of crashes compared to similar types of facilities or throughout Navajo Nation.

Each crash location or segment within the Safety Improvement Program would be evaluated based on three years of historic crash data and a field review would be required. The crash data should be summarized in a crash diagram to identify travel direction, crash type, time of day, and severity. The crash diagram will help to identify trends. The field review would examine geometric issues such as pavement width, shoulder width, roadway curvature, lighting condition, roadway stripes (paint), speeds, traffic counts, signs and markers. Additionally, other factors such as open range cattle, pedestrian and/or bicycle use, and driveways should be noted.





After the office-based and field-based investigations are complete, documentation of the probable causes and safety issues would be developed and recommendations made. The recommendations would include immediate next steps or programmatic next steps which typically would include design and environmental clearance, particularly if geometric improvements are required.

The current TTIP shows that approximately \$1.0 million is dedicated for safety improvements annually. Based on the extent of the system and the increase in crashes experienced on the system, it is recommended that at least \$2.0 million be dedicated for safety improvements annually until the crash levels reach a level that is anticipated for the level of traffic and facility type.

# 2. Open Range Policy

The Open Range Policy adopted by the Navajo Nation and State of Arizona needs to be re-evaluated. Navajo Ranchers may be in favor of this policy but when human and animals life are in danger, policy makers need to come up with a better solution. Highway design such as ROW fencing and other innovations need to be implemented and enforced to improve safety to prevent animals on roadways and reduce animal related crashes on the Navajo Nation such as policies/regulations that make the livestock owner more responsible for their livestock.

### 3. Vendors in the ROW

Although there were few statistics on crashes related to vendors within highway ROW selling crafts, foods, etc., it is a real concern to State DOTs and need to be addressed by all stakeholders especially the Navajo Nation. Vendors say it is their livelihood and economic development. As a government, the Navajo decision makers need to partner with the States to jointly establish policy, legislation and enforcement guidelines to make the road safer while still provide a mean for local artists and support the needed tourism.

# 4. Access Management

Access management is defined in the TRB 2003 *Access Management Manual*, as the "systematic control of the location, spacing, design, and operation of driveways, median openings, interchanges, and street connections to a roadway." Application of the best practices of access management has benefits for motorists, bicyclists, pedestrians, transit riders, business people, government agencies, and communities.

The desired outcomes of access management are highways that:

- Are safer for vehicular and pedestrian traffic;
- Allow motorists to operate vehicles with fewer delays, less fuel consumption, and fewer emissions;
- Provide reasonable access to properties;
- Maintain their functional integrity and efficiency, helping to protect the investment of taxpayer dollars;
- Reflect coordination between land use and transportation decisions; and
- Are used for the purposes (functions) for which they are designed.

The Federal Highway Administration (FHWA) maintains an access management website, <a href="http://www.accessmanagement.gov">http://www.accessmanagement.gov</a> and provides extensive documentation of current practice and benefits of access management for all functional levels of the roadway system. The FHWA defines access management as "a set of techniques that state and local governments can use to control access to highways, major arterials, and other roadways." The techniques provide tools that increase roadway capacity, manage congestion and reduce crashes. In addition, the Center for Urban Transportation Research, College of Engineering at the University of South Florida developed "Ten Ways to Manage Roadway Access in Your Community" to help communities develop an understanding of the benefits of access management. This is provided as Appendix B.

# 5. Navajo Nation Access Management

The Navajo Nation currently does not have an access management policy or program in place. The Navajo Division of Transportation (Navajo DOT) and the Bureau of Indian Affairs - Navajo Regional Office





(BIA-NRO) agree that access management is an important transportation planning issue. Currently the Navajo DOT and BIA work with the State DOT district engineers to comply with the state highway access permitting policies and requirements. Access permitting agreements are negotiated between the State DOTs and Navajo Nation departments; and the BIA is required to be included in the communication with both parties. Furthermore, the BIA NRODOT has its own permitting process that is used to control facility access for the safety of the traveling public.

A major issue with regard to access management on the Navajo Nation is that although the Navajo DOT and BIA are following the BIA and State access management requirements, other Navajo departments do not always follow the procedures and do not communicate development plans. Therefore improved communication is needed between all Navajo Nation departments, ADOT and BIA on access issues regarding state highways and BIA routes.

During a meeting in 2008, the Arizona DOT (ADOT) Multimodal Planning Division met with both the Navajo DOT and BIA-NRO to discuss access management concerns. It was agreed that Memorandums of Understanding (MOUs) on Access Management should be pursued by the Navajo Nation, BIA-NRO and the State DOTs. These MOUs should also include reference to the various Navajo Nation departments that require access permits. It was also suggested that separate MOUs for access management be developed between BIA and the Navajo Nation.

# 6. BIA Access Management

The BIA NRDOT's access management includes control of over size and overweight vehicles as well as utility crossing and roadway access permitting as defined in 23 CFR Parts 500 & 645.

# 7. Arizona Access Management

Access permitting is currently carried out pursuant to ARS 28-7053 which prohibits unauthorized encroachments in state highways. For an encroachment to be lawful, it must be authorized by the State DOT Director. The Director has adopted administrative rules (regulations) governing encroachments. These rules are published as Arizona Administrative Code, R17-3-501 Highway Encroachments and Permits - which includes access connections to state highways. The rule states that each encroachment requires a permit. Permits for driveways (encroachments) onto a state highway may be granted by ADOT's Engineering Districts, a delegation from the Director. Further, in accordance with a policy of the Arizona State Transportation Board, ADOT has developed and is currently undertaking the implementation of a Statewide Access Management Program which has the intent of preserving the functional integrity of the State Highway System. The Program includes the development of an access management classification system for state highways, and a comprehensive manual to guide the uniform application of access management throughout the State. As of September 2009, ADOT is expected to move forward with implementation of the Program by including the establishment of revised Administrative Rules. Upon initiation of the formal rulemaking process, ADOT will then solicit public comment on the Program. The ADOT Intermodal Transportation Division, Traffic Engineering Group oversees the Arizona Access Management Program.

# 8. New Mexico Access Management

The New Mexico State Highway and Transportation Department (NMSHTD) has developed a State Access Management Manual to facilitate the management of access to and from the state highway system. It is the responsibility of the NMSHTD to regulate the location, design, and operation of public and private access streets and driveways along the state highway system, and to reconcile, to the extent feasible, the needs and rights of both property owners and roadway users. Under the Constitution and Laws of New Mexico, the State Highway Commission is charged with the duty of determining all matters of policy relating to the design of state highways and public roads. Rules and regulations governing the design, construction, and maintenance of access points and median openings along state highways have been established by the NMSHTD. These rules and regulations are contained in the New Mexico Administrative Code (NMAC) and are identified as 18.31.6 NMAC, State Highway Access Management Requirements. The Utah Access Management Program oversight is the responsibility of the NMSHTD Land Management Division, Right of Way Bureau.





# 9. Utah Access Management

The Utah Department of Transportation (UDOT) addresses access management under State Rule for the issuance of State Highway grant of access permits. The Utah State Highway Access Management Rule is contained within Rule 930-6, Chapter 7: State Highway Access Management. Rule 930-6 is also known as the Department document, "Accommodation of Utilities and the Control and Protection of State Highway Rights of Way. The code clarifies the permitting process, establishes access categories assigned to the State Highway system, and provides spacing standards for access points in relation to the categories. The development and application of standards for the spacing and location of access points is vital to ensuring that the Department continues to provide a system that enhances the mobility and economic vitality of the State. The Department recognizes the many benefits associated with the application of an access management program such as the reduction in potential accidents. The Utah Access Management Program is overseen by the UDOT Project Development Group, Right of Way Division.

# 10. Access Management Strategies

There are three main access management implementation mechanisms. Planning-based approaches typically develop functional classification, roadway system, or corridor based practices that specify access management characteristics. Regulatory methods apply permitting procedures to manage access development. Design-based approaches define engineering standards and methods. Each separate implementation mechanism is a piece of an overall strategy that makes a successful access management program. Various strategies have differing benefits. A successful Access Management Program may use measures from all three main implementation mechanisms.

### A. Planning Based Access Management

Planning-based access management approaches develop access management programs using the transportation planning tools available. All of the following examples typically require adoption by the appropriate Commissions, Councils, and Boards to be used in planning decision making. Examples include:

- Integrating access management into the Comprehensive Land Use Plan and/or General Plan;
- Establishing a Major Roadway Plan that identifies and classifies the roadway network within a plan area:
- Developing an access classification system with standards that directly relate to the established roadway functional classification system;
- Defining the appropriate level of access for each classification to include property access, types of allowed movements and identifying potential traffic controls allowed;
- Establishing spacing criteria for intersections;
- Establishing spacing criteria for signalized intersections;
- Ensuring coordination with appropriate agencies for review authority; and
- Creating these planning mechanisms by involving the stakeholders and the public.

Planning based mechanisms create the base understanding where the public and policy makers establish and define how the system will develop (if undeveloped) or evolve (if developed). Once the community desires for access management are intertwined into the adopted plans and regulations, the connection between land use planning and access spacing occur. Also, by integrating access management strategies into adopted planning documents, then expectations can be understood by those desiring to develop or redevelop property.

### B. Regulatory Based Access Management

A regulatory-based access management approach applies permitting procedures to best regulate corridor access. Examples include:

- Planning permits for driveways;
- Engineering permits for design standards;
- Engineering permits for traffic control by all affected agencies; and
- Creating a link between zoning and the adjacent and surrounding transportation system.

Permitting processes and trained staff to conduct the permitting activities, are critical for a successful access management program. The TRB Access Management Manual defines a permit as, "a legal document that grants approval to construct and operate a driveway or other access of a certain design at a





specified location on a given roadway for specific purposes." The permitting process is based on a set of application requirements, a formal submittal, review by the permitting agency, and action by the agency to issue or deny the access. Typically, larger developments would be required to submit a site plan and an associated traffic impact study. Traffic study reporting requirements vary by permitting agency, but generally describe the driveway location, number of driveways, size and profile, and examine circulation patterns, safety, roadway capacity, intersection traffic control and projected traffic operating conditions.

A permitting process must have a method for applicant appeals and waivers. The desired practice, and cost effective method, would be to maintain an administrative level appeals process.

To ensure that the approved access location meets the agreed upon conditions and design standards, an inspection and enforcement program by the responsible agency is needed. Again, the staff responsible for inspection must be trained in materials and construction criteria.

### C. Design Based Access Management

A design-based access management approach applies engineering standards that are to be met by all new developments and improvements. Examples include:

- Developing a roadway design manual that has engineering standards that address roadway geometry and access geometry standards;
- Integrating traffic impact studies as part of the design process;
- Developing design standards for turning lane geometry; and
- Developing design standards for median treatments.

There are nine key design criteria identified in the TRB Access Control Manual, including:

- Preserve the functional intent of the roadway to which access is to be provided:
- Minimize the difference in speed between turning vehicles and through traffic to produce a safe traffic environment;
- Eliminate encroachment of turning vehicles on adjacent lanes;
- Use a combination of throat width and return radii that will accommodate the intended exit and entry operations of the selected design vehicle;
- Provide adequate sight distance for drivers exiting a site;
- Provide sufficient storage within the driveway for traffic entering the site to prevent spill-back onto the abutting road;
- Provide sufficient queuing within the driveway to produce efficient traffic flow for vehicles leaving the site;
- Minimize the number of conflict points at the junction of the access connection with the abutting road; and
- Provide adequate storage for turn lanes and within access connections to accommodate peak traffic demand.

A successful Access Management strategy for Navajo Nation should include Planning, Regulatory and Design based strategies to fully protect the transportation infrastructure investments made on the system. It is highly recommended that a study be conducted to identify and develop the best components of an Access Management Program for Navajo Nation.

# 11. Signing Program

An annual signing program should be established to enhance on-road and roadside safety. The annual signing program would include all signs to regulate, warn or guide motorists. All signs should be developed consistent with the Manual of Uniform Traffic Control Devices. The signing program should include new signs as well as signs that need to be replaced due to damage or wear/reflectivity.

The signing program should be prioritized by roadway classification, focusing on the higher class roadways and higher volume roadways. The National Cooperative Highway Research Program (NCHRP) Report 162 and the Missouri Manual on Identification, Analysis and Correction of High Accident Locations identify that signing can help correct 20 to 40 percent of correctable crashes due to curves, intersections or sections of roadway that need advance warning.





The current TTIP does not dedicate any funds directly to a signing program. Based on the traffic mix, volumes and crash history, an annual signing program funded at \$500,000 per year is recommended, focused primarily on the paved system.

# 12. Striping Program

An annual striping program should be established to enhance on-road and roadside safety. The striping program would first focus on the highest traveled roadways to ensure that roadway stripes can be seen to help drivers navigate in daytime, nighttime and adverse weather conditions. According to the Missouri Manual on Identification, Analysis and Correction of High Accident Locations, pavement markings have found to reduce crashes by up to 40 percent. This reduction is based on the standards set up in the Manual of Uniform Traffic Control Devices and analysis for appropriate treatments according to sight distance and terrain.

The current TTIP dies not dedicate funds directly to an annual striping program. To stripe all of the Navajo-BIA routes would cost approximately \$24 million. An annual program of at least \$5 million per year would allow approximately 300 miles of 2-lane roads to be striped annually. This strategy would allow for the highest volume roads to be painted annually or semi-annually with high quality, long lasting paint.

### E. Transit

Navajo Transit System (NTS) provides transit service throughout Navajo Nation. The Navajo Transit System's services and priorities are providing safe and reliable charter and public transportation for the Navajo Nation. This is achieved through improving the quality of life for all citizens for the Navajo Nation by increasing the accessibility to services and resources of the public and private sectors, particularly in meeting the needs of health care, education, employment, recreation, entertainment and shopping.

The NTS provides public transportation services to 41 chapters out of 110 Navajo Chapter communities; many fixed routes operate along state highways. NTS buses pick up passengers at designated stops within the 41 chapters, and generally provide both long distance and some local service within select growth centers.

The demand for services exceeds the number of buses and routes because the Navajo Nation occupies a substantial land area with a large population, long driving distances between destinations. With the limited number of routes available now, and the confinements of buses to major highways, many people who want services are not able to reach locations where buses normally pick up passengers.

Because the demand for NTS service exceeds the capacity, some market areas are not served, and some growth centers do not have localized service, it is highly recommended that a 20-year Transit Plan be developed to identify:

- Expanded Service Needs
- Local
- Regional
- Park-n-Ride Locations

The 20-year Transit Plan should also be integrated into the appropriate plans within Arizona, New Mexico and Utah to enhance funding partnership opportunities.

# F. Master Planning

Each Primary and Secondary Growth Center should develop a community 20-year plan that examines future land use, multi-modal transportation needs, infrastructure needs, environmental considerations and unique characteristics to the community.

The future land use should examine the type, density, distribution and locations of land uses throughout the growth center, and be balanced with the anticipated infrastructure/transportation needs to accommodate the additional growth. The layout of each growth center has a direct correlation to the amount of infrastructure investment, economic development potential, and ultimately the community context and livability that is equated to the quality of life for the growth center residents.





The LRTP currently is a needs-based plan. It considers the existing transportation system and facilities and identifies current and future needs based on socioeconomic and transportation projections. The process for analyzing the transportation needs is cumbersome and highly data intensive. The analysis process is currently being undertaken every five years by the Navajo DOT to update the LRTP.

Planning for the Navajo Nation transportation system is a monumental task and requires the efforts and skills of multiple agencies and the several communities that make up the Nation. Therefore, the LRTP encompasses recommendations and considerations from a variety of planning documents prepared by other agencies. With the contribution from these various groups, these plans should provide a consistent and accurate description of the transportation needs of the Navajo Nation and the opportunities for improvement.

In an effort to streamline the long-range transportation planning process and to provide increased flexibility, it is recommended that the Navajo Nation consider producing general plans at an Agency level, as well as at the Growth Center level. This would allow for bottom-up transportation planning that will build upon the efforts of the prior plan. The growth center plans would feed into the agency plans, and agency plans would feed into the LRTP.

Community plans would incorporate a land use element as well as a transportation element. There is a strong relationship between land use and transportation: they are directly related. The issue of population growth and resulting transportation needs should be addressed cooperatively to effectively identify and implement improvements.

Land use planning efforts are already being undertaken at many of the primary growth centers. These future land use plans are serving to accommodate the future growth trends of the communities. To support these plans, each will require an associated transportation system plan. The transportation and land use plans may be developed with close coordination from the public to specifically identify the needs of the community and capture the vision of that particular growth center.

Agency level planning would allow for the comprehensive planning of an entire Agency's land area, including the primary and secondary growth centers, and the supporting transportation system. The specific transportation needs and priorities of each agency could be highlighted within its plan. This would allow each Agency to develop its own vision for future development and focus its efforts on the needs it feels are most important to serving its communities and future needs. For example, one Agency could envision it strength is in serving future tourism needs and providing services that will promote and sustain those efforts; while another Agency will value community connectivity and wants to focus on the needs of all-weather access to its residents. Each agency would be able to develop a list of prioritized transportation projects that reflect their vision for the future.

The prioritized list of projects from each Agency plan's transportation element could then be provided to the ARC for incorporation into the nation-wide LRTP. In developing the Navajo Nation's prioritized list of transportation projects, the ARC would need to remain cognizant of the individual goals of each Agency and treat them as relatively important, based on the Agency's prioritization.

Other considerations that should be included in Master Planning efforts could include topics such as:

- Drainage improvements
- Energy corridors
- Freight movement
- Environmentally sensitive areas (cultural/historic/archeological, wildlife, etc...)

# G. DOT Coordination

The Navajo Nation has 10,076 miles of roadway, including approximately 1,678 miles of state routes that provide the primary routes between growth center communities and Navajo Transit System routes. The Arizona, New Mexico and Utah departments of transportation must be true partners to invest in roadway and safety improvements on the state system within Navajo Nation. Understanding that the DOTs must balance the needs of the state highways within Navajo Nation with the needs outside of Navajo Nation, and with shrinking budgets, the need for additional coordination between the Navajo Division of





Transportation and the three state DOTs is essential to ensure the maximum investment on state highways within Navajo Nation.

Understanding the State Transportation Improvement Program cycles, each state's process for project prioritization and areas of investment are crucial for a true partnership. Each state has individual goals, just like Navajo Nation. Based on agency and legislative direction, each state may weigh safety improvements, maintenance, freight, multi-modal or capacity improvements differently based on their programs. Because of this, common reoccurring coordination between the Navajo Division of Transportation and the state DOTs should occur, either in the form of semi-annual or quarterly meetings to ensure that the needs of the various Divisions within Navajo Nation and the state DOTs have a common understanding of needs, priorities and processes.

Additionally, state DOTs generally guide and prioritize projects that are community driven, plan and agency supported. These plan driven requests are those that are supported by Community Plans, programs such as the Safety Improvement Program mentioned above, the Long Range Transportation Plan and other planning processes that show redundancy based on broad-based adopted and accepted support.

# H. Title VI and Environmental Justice Implications

Transportation projects that utilize United States federal aid are required to certify non-discrimination under the requirements of Title VI of the Civil Rights Act of 1964. Also, in 1997, the U.S. Department of Transportation issued *DOT Order to Address Environmental Justice in Minority Populations and Low-Income Populations* to summarize and expand upon the requirements of *Executive Order 12898 on Environmental Justice*. In accordance with the intent of these federal requirements, a preliminary assessment was completed for this plan to identify impacted minority and low-income populations within the Navajo Reservation area and any affects to those populations by proposed transportation improvements. The following outlines the generalized approach to a Title VI and Environmental Justice evaluation.

# 1. Racial Demographics

Racial demographics are shown in Table VI-3. According to a special 2007 Census, the Navajo Nation was comprised of 164,332 persons; the majority of the population (97%) was classified as American Indian. Those classified as White comprised 2.1% of the population. While the remainder of the population classifications totaled less than 1% for their population groups.

Table VI-4 2007 Racial Demographics

Area	Total Population	White (%)	Black or African American Percent (%)	American Indian and Alaska Native (%)	Asian (%)	Two or More Races (%)	Hispanic of any race (%)
Navajo Nation	164,332	2.1	0.2	97.0	0.4	0.3	0.9

Source: U.S. Department of Commerce, Bureau of the Census, 2007 American Community Survey 1-Year Estimate.

# 2. Socioeconomic Demographics

Socioeconomic demographics are summarized in Table VI-4. Identified is the median age of the population on the Navajo Nation and the number and percentages of persons 65 years and older, below poverty level, disabled and female head of household.

Table VI-5 2007 Socioeconomic Demographics

- unio	001 000100	<del></del>							
Area	Median Age	Age 65 Years and Over		Below Pove	erty Level	Disabled		Female Hea	ad of
		No.	%	No.	%	No.	%	No.	%
Navajo Nation	29.5	16,105	9.8	60,474	36.8	33,031	20.1	20,364	12.4





Source: U.S. Department of Commerce, Bureau of the Census, 2007 American Community Survey 1-Year Estimate.

Based upon the Census data Navajo Nation has a population of young adults with the median age of the area at almost 30 years. Another significant Census figure shows that just over one- third (36.8%) of the Navajo Nation population is below the poverty level.

# I. Overall Study Recommendations and Implications

Since the Navajo Nation Long Range Transportation Plan (LRTP) coverage area is totally situated within the Navajo Reservation, all areas have high percentages of impacted populations. It is anticipated that a number of the transportation improvement projects recommended through this plan may differentially affect those populations. Chapter Five of this plan identified potential positive effects that the recommended projects could have on Navajo Nation community members. A Title VI and Environmental Justice preliminary assessment of the plan's recommended projects indicates that several could potentially place disproportionate burdens on community members and other minority or low-income populations. The preliminary assessment also shows considerations that dictated the recommended projects over alternative actions according to this plans need analysis.

During the planning process, consideration was also given to the Title VI and Environmental Justice factors to ensure that impacted populations were included in the plan's public participation process. Several public involvement efforts were conducted to reach minority and low-income populations when conducting the two public involvement meetings held during the planning process. As recommended projects are implemented additional effort will need to be conducted in order to detail activities that can avoid, minimize or mitigate the impacts. This is in addition to ensuring that the impacted population groups are provided the opportunity to participate in future project-specific public input processes. Details on this plan's public outreach efforts are included in the LRTP Public Participation Report.

Chapter Five of this plan identifies overall Navajo Nation roadway system issues and needs along with recommended improvements. Chapter Seven identifies transportation mobility improvement opportunities for each Growth Center. Specific project details are included in each Chapter's narrative, tables and maps. Table VI-6 below summarizes the overall long-range transportation improvements by category and possible adverse impacts and benefits of each recommendation. See also Chapter 5, Table V-39.





Project Type	Project Description	Impacted Population(s)	Potential Disproportionate and/or Adverse Impact(s)	Consideration(s) Dictating Recommended Actions Over Alternative Actions
NEED 1: H	ighway Geometric Desigr	n Deficiencies		
Roadway	To meet highway design guidelines based on 20-Year ADT, 5,955.4 miles of Navajo-BIA roads need surface upgrade and roadway widening. (See Tables in Chapter 5.B. Need 1)	Minority and low- Income including: Tribal Members Local Residents Area Visitors	Temporary constraint to street accessibility	Improved overall efficiency of the road network Improved road conditions Traffic crash reduction and severity
NEED 2: N	etwork Connectivity			
Roadway	89.7 miles of Navajo-BIA Class 2 roads need to be paved, and 90.0 miles of Class 4 meet criteria for Class 2 definitions and need to be paved. (See Tables in Chapter 5.B. Need 2)	Minority and low- Income including: Tribal Members Local Residents Area Visitors	Temporary constraint to street accessibility Decreased air quality Increased traffic through the project areas Increased traffic noise	Improved regional connectivity Improved overall efficiency of the road network Reduced travel time Conserved fuel Traffic crash reduction and severity Improved emergency response time
NEED 3: Pa	avement Deficiencies			
Roadway	1,313.8 miles of Navajo-BIA roads have severe pavement and need reconstruction. 27.6 miles have moderate pavement and need surface rehabilitation. (See Tables in Chapter 5.B. Need 3)	Minority and low- Income including: Tribal Members Local Residents Area Visitors	Temporary constraint to street accessibility Decreased air quality Increased traffic through the project areas Increased traffic noise	Improved overall efficiency of the road network Traffic crash reduction and severity Improved emergency response time
NEED 4: S	afetv			
Safety Improve- ments and Access Control	To reduce traffic accidents Navajo-BIA roads: 33 miles and two specific intersections need further study for geometric/safety improvements. General safety improvements are needed including striping, signing, access management, animal fencing and sidewalks. (See Tables in Chapter 5.B. Need 4)	Minority and low- Income including: Tribal Members Local Residents Area Visitors	Temporary constraint to street accessibility	Improved overall efficiency of the road network Promote safe mobility Relieve traffic congestion Traffic crash reduction and severity Improved pedestrian safety
	hapter House Access		T =	
Roadway	16 Chapter houses lack paved access roads: 149.8 of Navajo-BIA roads and 15.0 miles of County roads need paving. (See Tables in Chapter 5.B. Need 5)	Minority and low- Income including: Tribal Members Local Residents Area Visitors	Temporary constraint to street accessibility Decreased air quality Increased traffic through the project areas Increased traffic noise	Improved local connectivity Improved overall efficiency of the road network Reduced travel time Conserved fuel Traffic crash reduction and severity Improved emergency response time





Roadway	owth Center Streets  To meet future population	Minority and low-	Temporary constraint to	Improved local connectivity
Roadway	and development needs: Seven primary growth centers need multi-modal system improvements to balance with current and future land uses. (See Tables in Chapter 5.B. Need 6)	Income including: Tribal Members Local Residents Area Visitors	street accessibility Decreased air quality Increased traffic through the project areas Increased traffic noise	Improved overall efficiency of the road network Reduced travel time Conserved fuel Traffic crash reduction and severity Improved emergency response time Promote safe mobility Relieve traffic congestion Traffic crash reduction and severity Improved pedestrian safety
Mobility Improve- ments: Roadway Paving, New Roads, Pedestrian Facilities, Access Control	To meet the need for efficient and safe street networks to meet the demands of growing urbanization, to avoid traffic congestion and accidents, to promote economic development and meet future population growth. (See Maps in Chapter 7.E.)	Minority and low- Income including: Tribal Members Local Residents Area Visitors	Temporary constraint to street accessibility Increased traffic through the project areas Increased traffic noise	Improved local connectivity Improved overall efficiency of the road network Reduced travel time Conserved fuel Traffic crash reduction and severity Improved emergency response time Promote safe mobility Relieve traffic congestion Traffic crash reduction and severity Improved pedestrian safety
NEED 7: Co	mmunity/Economic Dev	elopment		
Roadway	Healthcare Facilities: turn lanes; street lights; paving access roads; parking lot facilities; sidewalks.  NHA Housing Projects: turn lanes; street lights; paving access roads; parking lot facilities; sidewalks.  Schools: turn lanes; street lights; paving access roads; parking lot facilities; sidewalks.  Economic Development: turn lanes; street lights; intersection control; paving access roads; parking lot facilities; sidewalks.  CIP Projects: turn lanes; street lights; intersection control; paving access roads; parking lot facilities; street lights; intersection control; paving access roads; parking lot facilities; sidewalks.  (See Tables in Chapter 5.B. Need 7)	Minority and low- Income including: Tribal Members Local Residents Area Visitors	Temporary constraint to street accessibility Increased traffic through the project areas Increased traffic noise	Improved Health, Community and Economic Opportunities Improved local connectivity Improved overall efficiency of the road network Reduced travel time Conserved fuel Traffic crash reduction and severity Improved emergency response time Promote safe mobility Relieve traffic congestion Traffic crash reduction and severity Improved pedestrian safety





NEED 8: Sc	enic Byways, Tourism &	Recreation		
Roadway, Signage Improve- ments and Access Control	Install signage and implement access management on scenic byways and improve 67.5 miles of access roads providing access to park and recreation areas. (See Tables in Chapter 5.B. Need 8)	Minority and low- Income including: Tribal Members Local Residents Area Visitors	Temporary constraint to street accessibility Increased traffic through the project areas	Improved regional connectivity Improved overall efficiency of the road network Reduced travel time Conserved fuel Traffic crash reduction and severity Improved emergency response time Promote safe mobility Relieve traffic congestion
NEED 9: Mu	ultimodal Transportation			
Roadway, Bicycle, Pedestrian Facility Improve- ments	Airport Development: 8.5 miles of new access roads need to be constructed. Transit Routes: Implement 5-year plan; expand and provide transit centers; local circulator service in Growth Centers. Bicycle Routes and Sidewalks need improvement, connectivity and new routes need to be constructed. (See Tables in Chapter 5.B. Need 9)	Minority and low- Income including: Tribal Members Local Residents Area Visitors	Temporary constraint to street accessibility Transit Route and Schedule Change Travel time change	Conserved fuel Promote safe mobility Provide improved transit connections Improved pedestrian safety
NEED 10: C	Other Transportation			
Roadway	Rural Addressing, Snow and Mud Emergencies, Hazardous Material Transportation, Former Bennett Freeze Area and I-40 Detour: 4,436.8 miles of Navajo-BIA roads, 1,735.8 miles of County roads and 2,812.7 miles of Tribal roads need improvements. (See Tables in Chapter 5.B. Need 10)	Minority and low- Income including: Tribal Members Local Residents Area Visitors I-40 Travelers	Temporary constraint to street accessibility Increased traffic through the project areas Increased traffic noise	Improved regional and local connectivity Improved overall efficiency of the road network Reduced travel time Conserved fuel Traffic crash reduction and severity Improved emergency response time Promote safe mobility Relieve traffic congestion Traffic crash reduction and severity
	Cultural Environmental Co			
Roadway Planning & Engineering	To minimize environmental and cultural impacts of proposed transportation projects through implementation of necessary environmental assessments. (See Narrative in Chapter 5.B. Need 3)	Minority and low- Income including: Tribal Members Local Residents Area Visitors	None identified.	Improved overall efficiency of the road network





# J. Year 2009-2048 Navajo Nation Long Range Construction Priority Schedule

The Transportation and Community Development Committee of the Navajo Nation Council approved the Navajo Nation 40 -Year Roads Construction Priority Schedule for FY 2009 to FY 2048 on March 16, 2004. The plan is a culmination of road construction priorities based on recommendations from five Agency Roads Committees.

As a result of IRR Program funding constraints, the Fiscal Year 2009-2048 Navajo Nation Long Range Construction Priority Schedule total is averaged at \$53.58 million per annum. Compared to overall long range transportation needs (Table VI-2), the Navajo IRR Program funding addresses only one-fourth of the Navajo Nation's actual long range transportation needs.

The 2008 TCDC resolution and the Fiscal Year 2009-2048 Navajo Nation Long Range Construction Priority Schedule list is included in the following tables.





# CHAPTER VII - GROWTH CENTER MOBILITY

The Navajo Nation's growth centers have been designated for economic and community development. They are also the Nation's major population centers. The following discussions explain transportation needs, planning considerations, and the proposed mobility improvements for the Navajo Nation Primary Growth Centers.

# A. Population Projection

Population of the Navajo Nation's Primary Growth Center communities made up 21% of total Navajo Nation population (Census 2000). Based on projected growth rate of 2.5% (1.84% growth was Navajo reservation's overall growth rate from 1990 to 2000), Table VII-1 illustrates that more of these communities will become small urban communities. FHWA classifies a small urban area as one having over 5,000 population (FHWA Highway Functional Classification-Concepts, Criteria and Procedures). The new 2010 Census will provide an updated growth rate by Growth Center and enable Navajo Nation planners to better understand how development is changing the population in the Growth Centers.

Table VII-1, Growth Center Population Projections for Years 2000-2030

		1	1	1	1
Growth Centers	2000*	2010	2020	2025	2030
Tuba City	8,225	10,529	13,478	15,249	17,253
Shiprock	8,156	10,440	13,365	15,121	17,018
Chinle	5,366	6,869	8,793	9,948	11,256
Kayenta	4,922	6,301	8,065	9,124	10,323
Window Rock/St. Michaels	4,354	5,574	7,135	8,073	9,133
Ft. Defiance	4,061	5,198	6,654	7,528	8,518
Crownpoint	2,630	3,367	4,310	4,876	5,517

Notes: \*2000 Census data for Census Designated Place (CDP).

Projection was computed using formula:

 $P1 = P0 (1+r)^n$ 

P0 = Base Year Population; P1 = Future Year Population; r = Growth Rate; n = Number of Years

# B. Development Trends

The Primary Growth Center designation was a result of the Navajo Nation's economic development strategies. This policy is supported by Indian Health Services (HIS), Navajo Housing Authority (NHA), Bureau of Indian Affairs (BIA) and the Navajo Nation. The Navajo Nation Local Governance Act further supports the Primary Growth Center development concept by requiring a land use plan for these communities. More economic, community, and government services development is assumed for the Primary Growth Centers. Increased school enrollment, health care services, employment, and businesses generally occur in the Primary Growth Centers.

# C. Transportation Issues

Current Navajo Nation infrastructure, particularly the transportation system is inadequate to support more development. Components of the present transportation system are already at capacity, resulting in transportation issues described below:

### **High Traffic Volume:**

As population and development occurs, traffic increases in primary growth centers frequently resulting in traffic congestion and higher crash occurrences on most primary growth centers' main thoroughfares.

### **Traffic Congestion:**

All primary growth centers have already experienced traffic congestion during rush hours and Navajo Nation Fair times. Limited paved roads results in traffic congestion on main streets and at development access locations.

### **Poor Access Management:**

Limited paved roads led to ribbon development along the state and Navajo BIA roads in the primary Growth Center communities. Lack of alternate routes and access management to these development sites produced numerous access points on these main streets resulting in more congestion and decreased motorist and pedestrian/bicyclist safety.

### **High Traffic Accidents:**

A high percentage of the Nation's traffic accidents occurred on road sections and intersections within the Growth Centers (See also Chapter V-Need 4: Safety). Highway safety has become a major concern for the primary growth center communities.

### **Discouraged Economic Development:**

Transportation and infrastructure are crucial factors determining the success of economic development. The lack of transportation routes and limited paved streets in the Growth Centers result in limited economic development opportunities. This, in turn, makes it difficult to attract outside businesses. Lack of paved streets also limits developable sites.

As the seven Navajo Nation Primary Growth Centers defined within this Long Range Transportation Plan chapter continue to grow, the need for an efficient and safe street network to meet the demands of their growing urbanization, to avoid traffic congestion and accidents, and to promote economic development and meet future population growth is required.

# D. Planning Methodology

The primary purpose for the Navajo Primary Growth Center Mobility Improvements is to provide a comprehensive street network that safely and efficiently serves the primary growth center communities. Federal transportation planning guidelines are used to address transportation issues while meeting the development goals. Street planning goals and guiding principles include:

### **Economic Vitality**

Expand usable land for economic development: commercial, industrial, and agricultural according to land resources potential.

### Safety

Increase safety by providing more alternative routes to avoid congestion. Install street lights and signalization at major intersections as warranted. Separate motorized and non-motorized users (bicycle paths and sidewalks). Control access to and from developments.

#### **Accessibility & Mobility**

Promote mobility for people and freight with an efficient network that enhances connectivity to regional transportation system.

#### **Environment**

Protect and enhance the natural environment by avoiding sensitive areas and providing recreational access to natural areas.

#### Multimodal

Improve modal choice and enhance connection between transportation modes.

#### **Energy and Efficiency**

Promote energy conservation through efficient transportation system planning.

#### **Cultural/Community Values**



VII-2

### 2009 Navajo Nation Long Range Transportation Plan

Promote a community's cultural identity, values, and sense of a place. Meet cultural and community needs.

### **Land Use**

Support use of land for existing and future development by providing necessary access.

# E. Growth Center Mobility Improvements

The following sections describe existing transportation issues as identified during the planning process conducted for this Navajo LRTP Update. Also identified are transportation mobility improvement opportunities for each Growth Center to consider as development occurs.

# Tuba City Mobility Improvements

### **Background**

Tuba City is the most populated Navajo Nation Growth Center. In 2000 it had a population of 8,225 and it is projected to grow to 17,253 by 2030. It is located approximately 60 miles north of Flagstaff, Arizona. It is a major community in the Navajo Nation's northwestern region. Tuba City's land size is estimated at 37,556.5 acres consisting of grazing land surrounding housing sites and the administrative area. Tuba City was part of the Bennett Freeze Order, the 1977 Settlement Act (PL 93-531) amended by the PL. 96-305 in 1980, Navajo-Hopi land dispute. The Bennett Freeze restricted any construction of any kind but Tuba City was set aside as administrative area where some developments were allowed. However, the Bennett Freeze was lifted in 2007. It is a significant employment center in the region and culturally and historically significant to the Navajo as well as the Hopi Tribe and San Juan Paiute Tribe. The Tuba City Airport is located nine miles west of Tuba City on US160. It is a regional center for health care and community services, schools, public safety as well as banking, shopping, dining and other services.

#### **Future Land Use**

In 2007 the Tuba City Chapter was certified and changed its name to "To'Nanees'Dizi Chapter." That same year the Chapter adopted its land use plan, which was funded by a Native American Housing Assistance and Self Determination Act (NAHSDA) grant. The Chapter recognizes the importance of using land use planning for the housing site identification as well as commercial, industrial, recreational and other land use zoning to create a workable community.

The Chapter land use plan was developed with its vision statement in mind, it reads: "The To'Nanees'Dizi Chapter will be a chapter with both an urban and rural flavor. The rural area will continue to accommodate farming and the traditional Navajo way of life. The administrative area will be a community which is home to commercial activity and denser residential development. The community will have an approved land use plan which identifies the road network and delineates commercial and residential land uses. All residents of the chapter, be they Dine or non-chapter members, will have access to safe and affordable housing and all basic infrastructure."

### **Goals and Strategies**

Improve infrastructure because they are crucial to future development.

Plan in-fill to take advantage of existing infrastructure and cut cost for new development then build new infrastructure.

Actively withdraw lands for development as planned.

### **Proposed Future Development**

The plan identifies future development needs and proposed sites as follows:

### **Residential Development**

### • Single Family Housing:

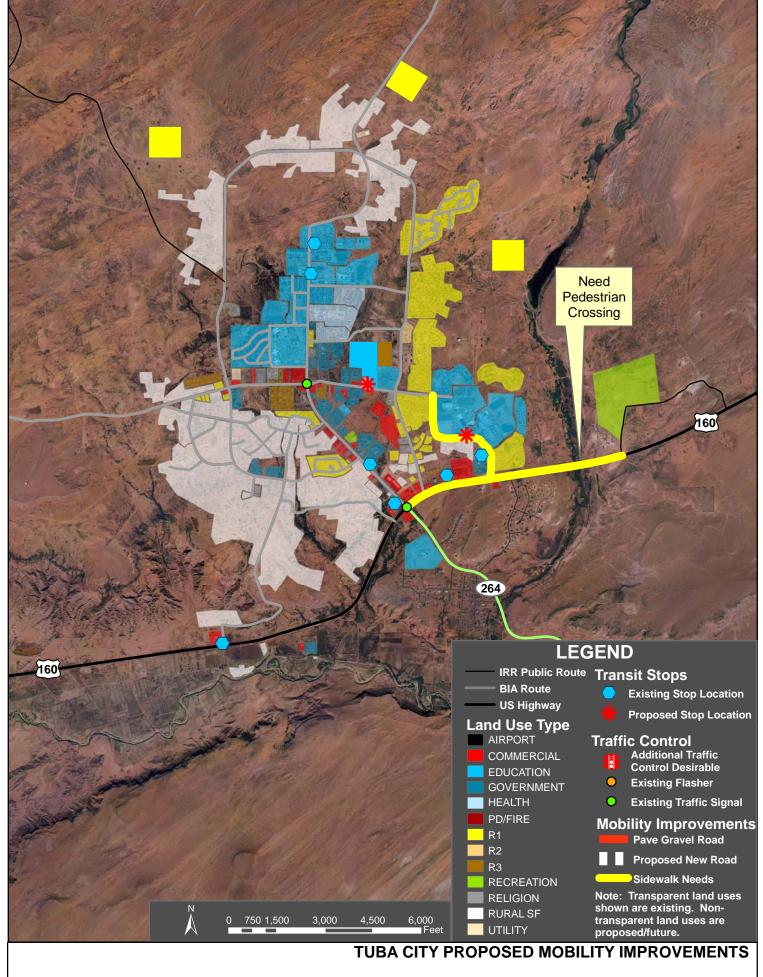
Three (3) Sites were proposed as shown on Map VII-1. These sites contain 10-acres each exclusively for housing development. Although one of the sites is not within the To'Nanees'Dizi community boundary, it is within the Chapter boundary.

#### • Single Family Housing with Commercial Development:

The Moenave Site is also outside of the To'Nanees'Dizi community but is still within the Chapter boundary. In addition to 10-acre housing development, its plan includes 3-acre commercial development, 4-acre recreation with a basketball court and 3-acre open space.

#### Trailer Park:

A 5-acre site is proposed near the future Dine College expansion, see Map VII-1.



**MAP VII-1** 

### **Commercial Development**

Dinosaur Tracks Business Site: Approximately 22 acres are proposed for commercial development next to the Dinosaur Tracks tourist attraction. The site is located along US 160 northeast of the US160/N23 junction.

US89/US160 Business Site: 21 miles west of To'Nanees'Dizi, approximately 60 acres are proposed for commercial development at the northeast corner of the intersection. This location is aimed at attracting tourists on US89 en route to Lake Powell. However, it needs waterline extension from Moenkopi or existing line on US160.

#### **Industrial Development**

There are no existing industrial sites in To'Nanees'Dizi, however, three sites are being considered for future development. These are as follows:

### **Dinosaur Track Business Site**

There is a five-acre site west of To'Nanees'Dizi livestock pens adjacent to US160. Additionally, there is undetermined acreage west of the rodeo grounds adjacent to US160.

#### Education

Future expansion of Dine College: Future expansion of Dine College is planned within the existing college property.

### **In-fill Development**

The plan recommends in-fill development for housing and commercial uses. Building from partially complete subdivisions first will reduce infrastructure cost before the Chapter begins building at the new sites, which require extension of infrastructure.

### **Town Center**

The plan recommends To'Nanees'Dizi to undertake the development of a "Town Center" to create cohesiveness for the community.

THIS PAGE INTENTIONALLY LEFT BLANK



## SHIPROCK MOBILITY IMPROVEMENTS

### **Existing Conditions and Transportation Issues**

Shiprock, New Mexico is the second largest Navajo Nation Growth Center with a population of 8,156 according to the 2000 Census. Its population is expected to reach 17,018 by 2030. The Shiprock community is divided into two areas near the San Juan River, with government services in the north and a new commercial area in the south. Most development is concentrated along US491 and NM64, which merge to become the main thoroughfare collecting traffic from developments and access roads to housing, hospital, and government facilities. Shiprock is about a one-half hour drive from Farmington, New Mexico and Cortez, Colorado. These border towns provide employment opportunities for Shiprock residents. Commuter traffic to and from Shiprock contributes to rush hour traffic congestion in Shiprock. US491/NM64 between the south and north junctions experience traffic congestion and have the highest number of concentrated crashes on the Navajo Nation reservation. Demand for future development will certainly strain US491 and NM64. Commercial and industrial development has been proposed along US491 south of the San Juan River. As land develops, parallel streets are needed to support future growth, offer alternative routes and avoid further ribbon development adjacent to US491 and NM64 which will only expand upon currently congested areas.

### **Street Plan Goals & Objectives**

- To create networks of streets to expand the use of land for the purpose of economic development towards the south and serve the government center.
- To create two street networks separated by the San Juan River, each providing an efficient distribution of traffic to reduce congestion and accidents.
- To provide an alternate crossing of the San Juan River towards the west.
- To create alternate routes and increase accessibility.
- To minimize environmental and cultural impacts by conserving areas adjacent to the San Juan River for recreation, and building new improved routes on existing dirt roads.
- To strengthen the historical sense of the place by creating a new government/town center upon old settlement area known as the Shiprock chapter house/BIA compound.
- To enhance multi-modal options and mobility by providing a pedestrian bridge across the San Juan River, safely linking the two primary development areas within Shiprock.

## CHINLE MOBILITY IMPROVEMENTS

## **Existing Conditions and Transportation Issues**

Chinle is the third largest Navajo Nation Growth Center with 5,366 in population during 2000. Its population is expected to grow to 11,256 by 2030. Approximately 2 million tourists pass through Chinle annually, as it is the gateway to the Canyon de Chelly National Monument. Chinle is primarily accessible and connected to other regions by US191. N7 provides access from US191and from the Fort Defiance Agency to the Canyon de Chelly National Monument. N64 provides access from Tsaile through the national park. These are the main paved roads in Chinle, other than the hospital and NHA access roads.

Nazlini Wash divides Chinle into two areas: the old settlement comprising the BIA compound and chapter government in the east, and commercial development, schools and hospital in the west. Land along N7 is very much developed and confined by the wash. US191 becomes a busy thoroughfare with high concentration of crashes from N102 to N7. High traffic volume and frequent points of access on US191 and N7 contribute to congestion and safety issues on both roads. Lack of alternate routes into Chinle also causes traffic congestion on N7. Due to the extent of access and traffic along N7, an examination of turn lanes and access management techniques should be explored to improve safety and mobility.

Tourism as well as population growth will promote the demands for more developable areas. Better links between Chinle's east and west sides are needed to improve transportation access to the hospital, the new airport, and tourist destinations. Residents are both concerned about their grazing rights and the need for economic development.

## **Street Plan Goals & Objectives**

- To create a safe multi-modal street network that connects all parts of Chinle more effectively.
- To create ring roads/outer loops to accommodate new land use/development and divert through traffic from US191 and N7.
- To improve paved roads using existing dirt roads to avoid relocation and conflict with residents of existing built-up areas.
- To create a town center from the old settlement area to promote town history and attract tourists.
- To provide sufficient and efficient alternative routes, i.e., ring roads to bypass or cross town.
   Alternate routes should be examined to quantify time savings, safety improvement and congestion reduction. These loops connect south and north parts of town to the new Chinle Airport, and provide access to the new commercial and industrial centers, as well as new housing and schools. The improvements could potentially help improve traffic congestion on US191 and N7

This plan keeps existing scattered housing sites as rural residential areas. It proposes to minimize road construction and land use within the 100-year flood prone areas. Some roads would also serve as dikes to protect nearby existing and new developments from flooding. Most areas along the 100-year flood prone area are proposed for recreation and agricultural uses. A drainage study should be completed to identify needed drainage improvements to alleviate the recurring flooding issues southeast of the US191/N7 intersection.

The plan proposes to expand US191 to 5 lanes with raised median, street lights, traffic signalization and landscaping from the airport exit to N8091. Bicycle paths and sidewalks are proposed along N7 from US191 to Canyon de Chelly and along the Nazlini Wash. Additionally, this portion of N7 should also be converted from a four-lane roadway to a two-lane roadway with a center two-way-left-turn lane to enhance corridor safety and capacity. Map VII-3 identifies needed transportation enhancements within this Growth Center.

### KAYENTA MOBILITY IMPROVEMENTS

## **Existing Conditions and Transportation Issues**

Kayenta had a population of 4,922 in 2000 and is expected to grow to 10,323 by 2030. Kayenta is the only Navajo community that has become a township. Its economy is tied to Monument Valley, a national and international tourist destination. Kayenta collects its own sales tax, passes laws and enforces its land use plan and ordinances. The first Kayenta land use plan was developed and approved in 1986. The township covers approximately 5.5 acres of land.

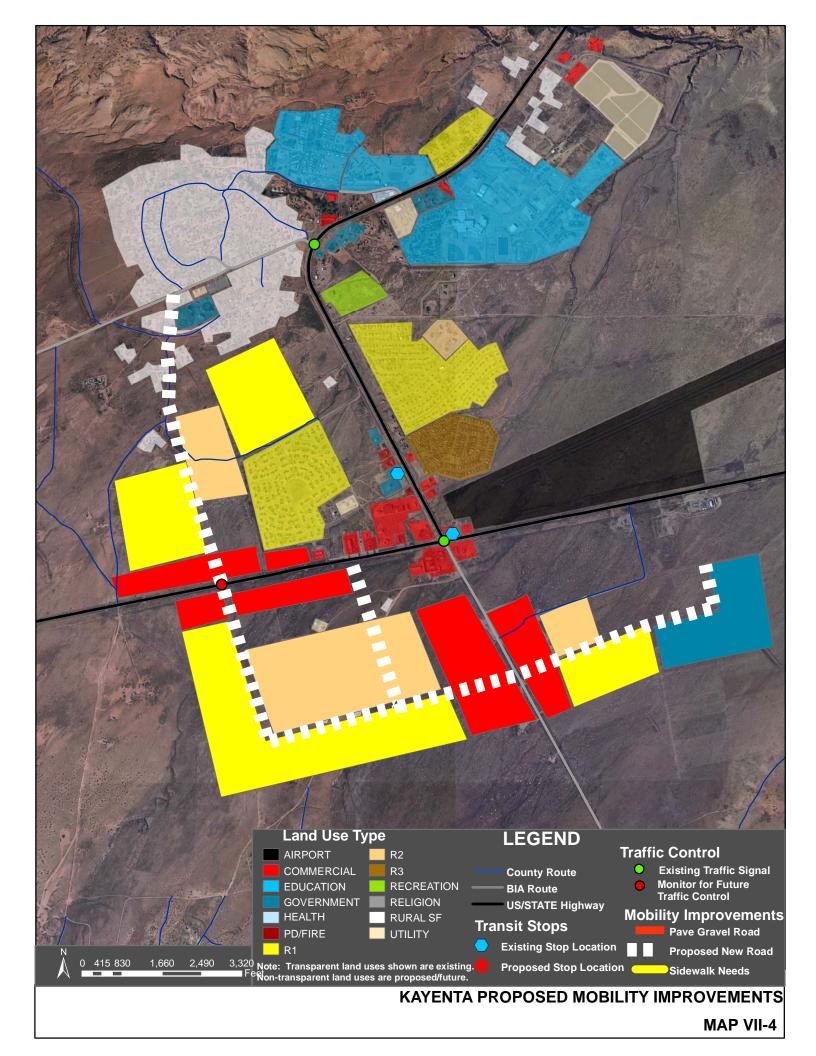
US160 and US163 are Kayenta's main thoroughfares. Other existing paved roads are NHA and school access. The junction of US160/US163 has experienced very high levels of crashes. US160 from US163 to N59 and US163 from N6485 to UT state line/Monument Valley also had a high number of crashes.

Kayenta Township has been progressive in establishing a township commission, administration and in planning for development. Land use regulations and development policies have been developed and enforced. With an independent revenue source from its sales tax, Kayenta is likely to be the fastest growing Navajo Nation Growth Center in economic development.

### **Street Plan Goals & Objectives:**

- To create a multimodal network that supports the land use plan by providing managed access to different land areas/uses.
- To create an efficient street system that provides a comprehensive transportation network for effective connectivity, distribution of traffic and enhances pedestrian and bicycle mobility.

Map VII-4 illustrates the transportation mobility improvements desired for the region to support the stated goals and objectives.



## Fort Defiance Mobility Improvements

## **Existing Conditions and Transportation Issues**

Fort Defiance's population was 4,061 in 2000 and is expected to increase to 8,518 by 2030. Fort Defiance was the first American military post in the region in 1851. Later it became the Bureau of Indian Affairs agency headquarters. It is the largest community in the Fort Defiance Agency.

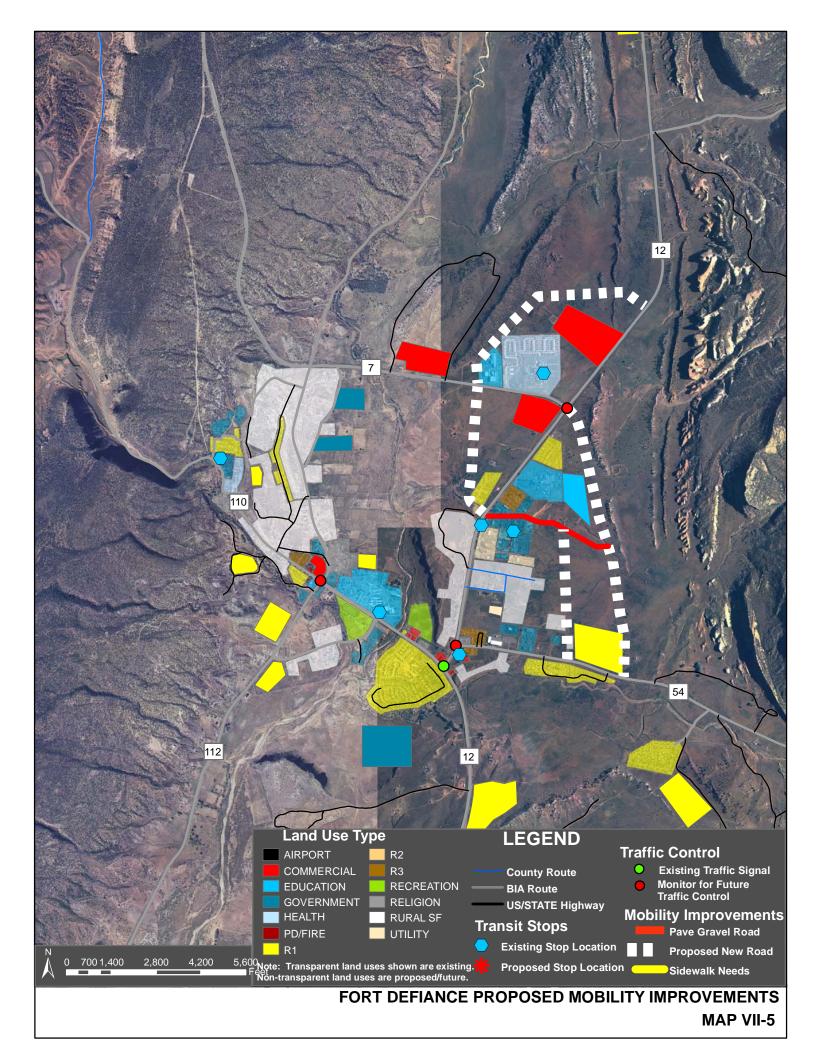
Several arterial (Class 2) roads provide access to Fort Defiance: N12 connects Fort Defiance with Window Rock and other parts of the Fort Defiance Agency; N7 provides access from Chinle Agency; N112 connects to St. Michaels and Navajo, New Mexico; and N54 connects Fort Defiance to NM264 in Eastern Agency. N110, a five-lane road is considered the main street in Fort Defiance. N110 from N12 to N112 had a high number of accidents.

Fort Defiance continues to be the federal government headquarters for the agency. Fort Defiance Hospital, schools, light industries, BIA and Navajo Nation offices are major employers. The community and the Navajo Nation continue to promote industrial development and attract more companies to Fort Defiance.

### Street Plan Goals & Objectives:

- To create a growth center's street system that provides access and travel continuity as well as promotes new development.
- To create an efficient street system that promotes network connectivity, distribution of traffic and enhances pedestrian and bicycle mobility.

Map VII-5 illustrates the proposed transportation mobility improvements for the Fort Defiance Growth Center.



## Window Rock/St. Michaels Mobility Improvements

## **Background**

The Window Rock community is located within the St. Michaels Chapter boundary. It is the capital of the Navajo Nation where the headquarters of all branches of the tribal government and Indian Health Services are located. Other major employers in Window Rock are State of Arizona MVD and Department of Economic Security, BLM, Dine College, Window Rock Elementary School, two grocery stores and various businesses. Window Rock and St. Michaels CDP population were 3,059 and 1,295 respectively (2000 Census). Most development extends along AZ264 and N12 corridors making St. Michaels-Window Rock into an urbanized area.

#### **Future Land Use**

The St. Michaels Chapter Land Use Plan developed in 2004 suggests few changes in land use categories for the Chapter in the next several years. Housing development is always in demand in Window Rock. The plan forecasts a demand for housing to meet the need of employees of the Navajo Nation and other employers and small commercial development for the Window Rock area.

#### **Goals and Priorities**

To provide development and land use opportunities to meet economic and housing needs. To develop with environmental and cultural suitability

#### **Residential Development**

A 20-acre site is proposed for mixed residential and commercial development north of the Window Rock Post Office.

#### **Commercial Development**

- 48-acre Black Creek Commercial Site north of AZ 264.
- Small neighborhood commercial development similar to the mixed residential and commercial development north of the Window Rock Post Office.

#### **Education**

Dine College is intending to develop a full-on campus within St. Michaels Chapter. The Chapter suggests that it purchases a 21-acre land parcel owned by St. Michaels Mission west of St. Michaels Housing area for the proposed future Dine College campus and student and staff housing.

#### Recreation

The Navajo Nation Fair Ground is planned to expand to a 14-acre site east of Church's Chicken. However, St. Michaels Chapter needs to clear this with the Federal Aviation Administration because of its proximity to the Window Rock Airport. FAA regulations restrict building height within the flight approach zone.

# WINDOWROCK/ST. MICHAELS PROPOSED MOBILITY IMPROVEMENTS MAP VII-6 Access Management Needs Monitor for Future Traffic Control Devices Mobility Improvements **Existing Traffic Signal** Improve Gravel Road Proposed New Road Sidewalk Needs **Proposed Stop Location Existing Stop Location** - IRR Public Route US Highway **Fransit Stops** BIA Route LEGEND RELIGION RURAL SF PD/FIRE UTILITY Note: Transparent land uses shown are existing. Non-transparent land uses are proposed/future. Land Use Type R2 R3 GOVERNMENT RECREATION COMMERCIAL EDUCATION AIRPORT 5,200 Feet 3,900 2,600 650 1,300

## Crownpoint Mobility Improvements

### **Background**

Crownpoint is the regional center for Eastern Navajo Agency in New Mexico. It is located approximately 24 miles north of Thoreau, New Mexico in McKinly County. Unlike other Navajo Nation Primary Growth Centers which are located entirely on the Navajo Nation Trust Land, Crownpoint is part of the Nation's "Checkerboard" area that dominates the Eastern Navajo Agency. Estimated land size of Crownpoint is approximately 71,604 acres. It consists mostly of Navajo Nation Trust Land (44%) and Indian Allotments (39%), while State, Tribal Fee, BLM, private and others make up the rest (17%). It is a major employment center and government services in the region. The Crownpoint Airport is located 3 miles west of Crownpoint on N9. It is a regional center for health care and community services, schools, and public safety, shopping, dining and other services.

#### **Future Land Use**

Crownpoint adopted its Land Use Plan in 2004. It envisioned a community where people who live and work there believe in the beauty, history, natural and cultural importance of the community and its viability; where members want to stay, work, shop, live, share, raise their families, and prosper in a self-sustaining way; where people value peacefulness and own strength in building and working together to continuously improve lives and preserve traditions.

#### **Goals and Priorities**

- To become a self-sustaining community. Promote economic and tourism development to create and sustain jobs, contribute to tax base, and share local traditions and customs.
- To balance land uses and development to strengthen community's vision, rural character and lifestyle.
- To create an attractive community while preserving the character of the community and protect traditional and cultural properties.
- To provide adequate community facilities and services to protect health, promote safety and welfare of general public.
- To identify areas for orderly development.
- To provide adequate infrastructure to meet current and future needs of Crownpoint while not exceeding its physical capacity and preserve water resources.
- To provide a variety of transportation modes for both pedestrian and vehicular traffic while keeping in mind the need for emergency access.

#### **Residential Development**

Single Family Housing: 20 new houses are proposed by IHS in central Crownpoint. 30 housing units are proposed by NHA in north Crownpoint. ARC, Inc. completed a study for the chapter and identified two sites: 165 acres located at N9/N11 junction and 473 acres near north NM371/N9 junction.

#### **Commercial Development**

The community recommended businesses such as restaurants, sport and auto stores. For tourism, the community recommended a paved flea market and art and crafts pavilion for local artists and a casino. Rental office spaces and a truck stop were also recommended.

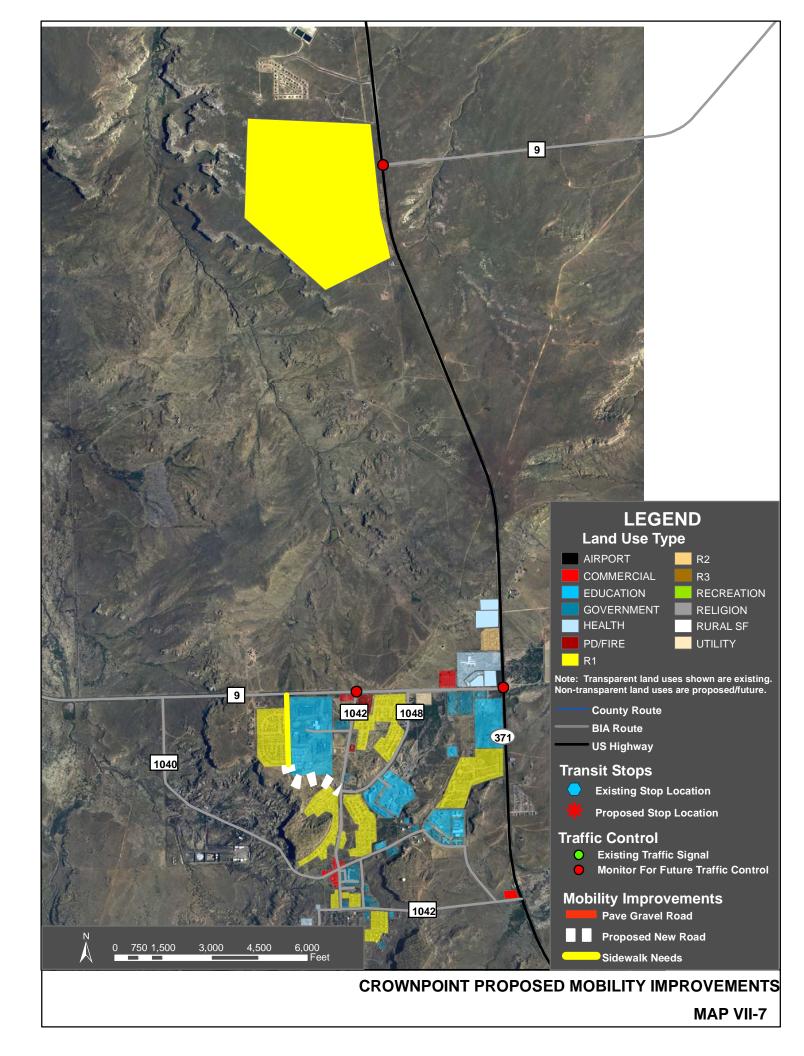
### **Industrial Development**

Community members expressed a desire to encourage industrial development that does not negatively impact the health and welfare of the community members.

#### Recreation

The community desired to expand recreation to be enjoyed by the community members and tourists alike such as parks and a golf course.

Map VII-7 illustrates the proposed mobility improvements for the area.



#### **Community Services**

- Proposed public facilities to meet the needs of specific groups (e.g., children, youth, elderly, veterans, ranchers, etc.)
- Proposed office complex or multi-purpose facilities for centralization of BIA and Navajo Nation programs, NTUA, etc.
- Proposed cultural and civic facilities such as veteran's memorial, museum, rodeo hall of fame, boys & girls club, etc.
- Proposed common areas including a "plaza" for flea market, farmers market, arts & crafts, festival, etc.
- Restore old and historic buildings and sites to stimulate the community's quality of life and economic vitality. These are town hall, old school warehouse, superintendent's house, BIA Park, etc.

### **Crownpoint Indian Health Service Programs:**

- Priority #1:
  - Expansion or additions of IHS Programs, southeast from hospital.
- Priority #2:
  - New Housing units with 7.92 acres (currently Ropes Course) of new housing. The Ropes Course has been turned over to the Navajo Department of Youth and will be moved to north of the new housing.
- Priority #3:
  - 2.5 aces to be leased to NN Division of Health for Behavioral Health programs: Wellness Center, Outpatient Treatment & Detoxification Center.

## CHAPTER VIII - NAVAJO NATION AIRPORT NEEDS

Air transportation is an important part of transportation services on the Navajo Reservation. Considering the size of the reservation, 26,600 sq. miles with an average density of 6.8 persons per square mile, aviation provides an efficient transportation connection to remote areas of the reservation and to the other part of the country. It becomes a crucial means of transportation for medical emergencies, for tribal official business, and for tourism.

The Federal Aviation Administration (FAA) funds airport and airfield development with aviation fuel excise tax. Congress enacted Vision 100 - Century of Aviation Reauthorization Act in 2003. Recognizing the important role of runways, the Vision 100 has increased the Airport Improvement Program (AIP) funding from \$3.4 billion in FY2004 with \$100 million increments over the next three fiscal years. AIP provides funding for airfield pavement projects. Vision 100 also includes a program for airport security upgrades to be funded separately. Under the legislation, non-primary airports will be allowed to pool their annual AIP funds. This will allow such airports to do higher-cost capital projects than they could individually. These annual AIP funds are only available if there have been qualified projects submitted under the Airport Capital Improvement Program (ACIP). Non-hub airports will now be able to use their AIP funds to carry out pavement maintenance activities. As of the date of this study, Congress is in the process of reauthorizing Vision 100 and FAA has been funded through a series of continuing resolutions.

The Navajo DOT has been receiving FAA funding for construction and improvements for its airports. As in the IRR program, FAA funds are not allowed to be used for maintenance. The Navajo Nation is required to provide 5% local match with FAA funds and the responsibility and funding of airport maintenance.

The Navajo DOT has had a few airport system plans developed since 1975. The Division has used them as guidelines for airport development. The 1992 Navajo Nation Aviation Systems Plan is the most current plan Navajo DOT has followed. This plan was approved by the TCDC in 1993. The FAA accepted the 1992 plan and incorporated eight of the Navajo Nation airports into the National Plan of Integrated Airport Systems (NPIAS).

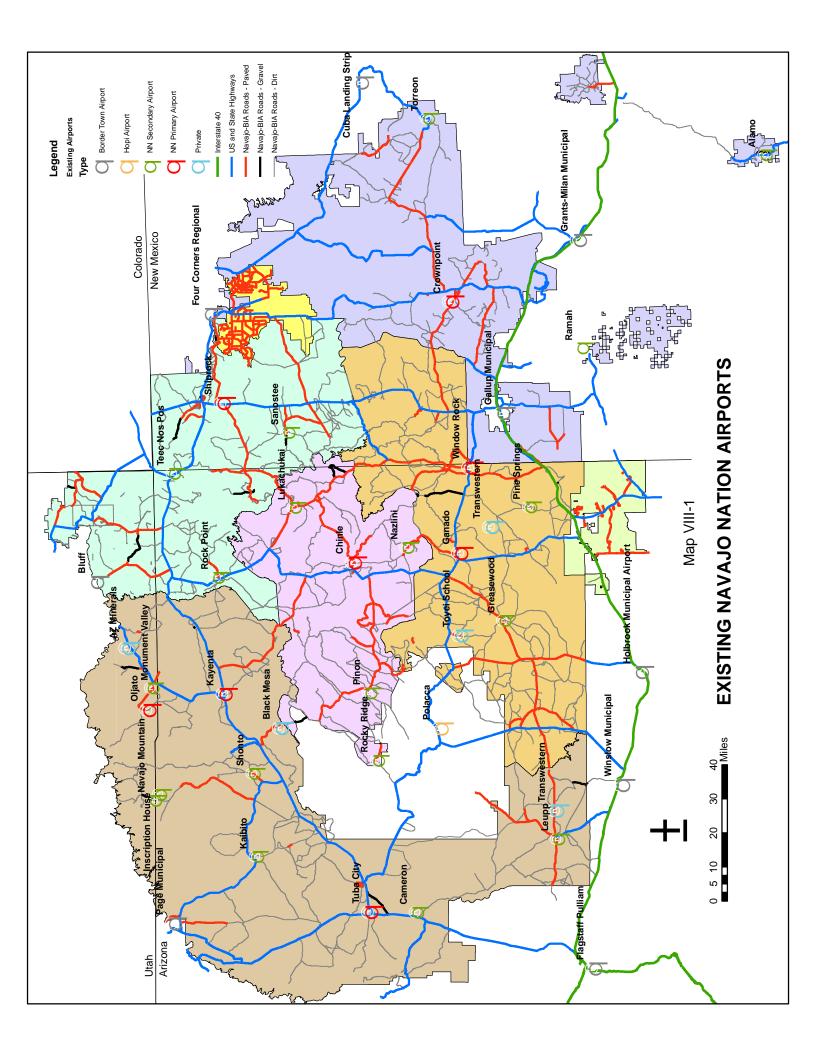
## A. GOALS AND OBJECTIVES

The Navajo Nation has outlined its aviation goals and objectives as follows:

- To develop a system of safe, efficient airports which meet acceptable development standards of federal, state and local agencies, as well as the aviation industry.
- To plan for future growth of the aviation system consistent with national, state, and local air transportation needs through continuous updating of the Navajo Nation Aviation Systems Plan and to take actions to land bank and avoid operational restrictions at existing and new airports.
- To provide a system of airports, which will provide a minimum level of service and meet acceptable performance standards.
- To identify improvements needed to ensure adequate access to all system airports and users.
- To enhance opportunities for local economic development and improved employment consistent with local growth policies and plans.
- To finance aviation facility development to maximum feasible extent with innovative techniques taking full advantage of private sector initiatives and opportunities to assist in developing and operating facilities in the public aviation system.
- To establish operating procedures, budgets and an organizational structure to ensure proper maintenance of all Navajo Nation airports.
- To provide a framework for aviation planning and programming to meet needs in areas of airport development, airspace utilization and air navigation facilities and services.

## B. EXISTING AIRPORTS AND INVENTORY

Navajo Nation airport system consists of approximately 32 airports/airstrips within the Navajo Reservation and the checkerboard area (Map VIII-1). Five are privately owned. Only six of the Navajo Nation airports are currently in use (shown with\* in Table VIII-1). Only fourteen are registered or included in the NPIAS and state airport systems. They are Tuba City, Kayenta, Chinle, Window Rock, Ganado, Rock Point,



Shonto, Pinon, Lukachukai, Rocky Ridge, and Pine Springs Airstrips in Arizona; Shiprock and Crownpoint Airports in New Mexico; and Oljatoh Airstrip in Utah. These airports/airstrips are classified as Navajo Nation Primary and Secondary Airports as described below:

## 1. Navajo Nation Primary Airports

Eight (8) airports. They are owned and maintained by the Navajo Nation. Six have a paved single runway for small aircraft operations. Some have navigational aids and are equipped for night operations. They are located at the Navajo Nation Primary Growth Centers and open for public use. Most usage of these airports is for medical emergencies, secondarily by tribal business, with occasional uses by tourists. Construction work on Shiprock, Tuba City, Crownpoint, and Chinle airports was completed from 1998 to 2003. Window Rock Airport is being planned for an upgrade in 2009. Except for Window Rock Airport, none of the primary airports have a terminal building.

Kayenta Airport improvements included relocation of the runway and parking area and electrical upgrades between 1998 and 2003. Airport programming and operations are now administered by the Kayenta Township.

Ganado Airport mostly serves medical transportation to and from the Sage Memorial Hospital. Its dirt runway is too short. A master plan and initial design (2008) for a 6,600' x 75' paved runway has been completed.

Window Rock is operated by the Navajo Nation Air Transportation Services under the Division of General Services, which provides charter services to the Navajo Nation President and other tribal programs. Other private air transportation services are also available at Window Rock Airport.

## 2. Navajo Nation Secondary Airports

Nineteen (19) airports/airstrips. All are dirt airstrips without supporting facilities and receiving no maintenance. They are mostly closed, in poor condition, or unusable. Six of the Navajo Nation Secondary Airports are in the Arizona Airport System Plan (Rock Point, Shonto, Pinon, Lukachukai, Rocky Ridge, and Pine Springs). These airports/airstrips are necessary since they can be used for medical emergencies and emergency landings.

### **Private Airports**

Five (5) are privately own and maintained airports.

## 3. Hopi Tribal Airport

The Polacca airport is located by the Hopi Health Center in Polacca. Currently this airport is considered a primary general aviation use airport in the Arizona DOT system. There are approximately \$11,000,000 budgeted for improvements to the runway and clearance of obstructions for this airport. This airport is used by governmental agencies accessing this region along with health related emergencies for both Hopi and Navajo tribal members in the region.

The existing Navajo Nation airport information identified above and in Tables VIII-1 and VIII-2 are based on latest FAA record, State airport plans and Navajo DOT survey. Table VIII-3 provides information on those airports that are owned and operated by others than the Navajo Nation but are generally within the confines of the Navajo Nation geographical area

Table VIII-1. Existing Navajo Nation Primary Airport Inventory

	_	avajo Natioi				0.1		n ,
	Runway Dimension	Based Aircraft	Runway Data/ Conditions	Navigational Aids	Lighting		Operations	Performance and Capacity Needs
Shiprock*	4,840'x75'		Asphalt/Poor. Poor markings. Broken glass & debris on rwy. Obstructions: 50 ft wide, 1225 ft fr rwy 02, 300 ft left of ctrln, 20:1 slope to clear 250' left at controlling point rwy 02.	None	None: Stolen (vandalism)		(Avg 22/week) 87% transient; 13% local	Recons rwy and paint. Clear obstacles. Deepen drainage ditch. Connect twy to rwy 20.
Tuba City*	6,230' 75'	Single Eng: 0 Multi Eng: 0	uneven and cracked (1520' on S-Closed 1200'	Rotating beacon; PAPI; windsock	Yes	Aircraft parking apron	,	Recons 1520 ft rwy. Weed maint.
Kayenta*	7,140'x75'	Multi Eng: 0	markings. Holdline on twy fr tie-dn to rwy is 203 ft fr	Segmented circle-rotating beacon; wind indicator	Yes	tie-downs; 10 cars parking.		Recons rwy. Weed maint.
Oljetoh	3,950'x50'			Wind indicator; segmented circle.	None	apron w/ 6 tie-downs; 2 gas pumps;	76% air taxi 22% transient	Unsafe runway, needs to relocate and construct new rwy.
Crownpoint*	5,820'x60'		gravel and cracked rwy. Fair markings. Obstructions: 43 ft hill,	Radio controlled rotating beacon; wind indicator	MIRL	ft paved apron w/ 9 tie-downs;	(Avg 42/month) 60% air taxi 40%	Runway rehabilitation. Needs crosswind runway fr westerly wind
Chinle*	6,149'x60'		markings.	Radio controlled rotating beacon; PAPI; windsock	Yes	apron	2,400 (Avg 46/week) 67% transient; 17% local 17% com'ercial	
Window Rock*	7,000'x75'		Good markings. Obstructions: 18 ft. hill fr	Beacon; AWOS, PAPI; windsock	Yes	hangars, terminal	7,000 (Avg 134/week) 79% transient 21% local	Recons. Runway.

## 2009 Navajo Nation Long Range Transportation Plan

Airport Name	Runway Dimension	,	Based Aircraft	,	Navigational Aids	Lighting	Other Facilities	Annual Operations	Performance and Capacity Needs
Ganado	4500'x130'	18/36		Dirt/Fair (Closed). Rwy 175' wide except where sideslope up steeply. Ends and shoulders: scattered soft sandy-clay. AER 36 rocky. Obstructions: 3' fence, 60' fr rwy 36, 20:1 slope to clear. No line of sight btwn rwy ends. Water on rwy and gulleys after heavy rain. Livestock.		None	None	700 (Avg 58/month) 100% transient general aviation	

Source: Arizona State Aviation Needs Study 2000; New Mexico Airport System Plan 2003; FAA Airport Master Record 2004; 2001 NDOT survey.

Notes: \* Airports currently in use.

Table VIII-2. Existing Navajo Nation Secondary Airport Inventory

Airport Name	Runway	Runway	Based Aircraft		Navigational	Lighting	Other	Annual
	Dimension	Direction		Conditions	Aids		Facilities	Operations
Shiprock*	4,840'x75'	02/20		Asphalt/Poor. Poor markings. Broken glass & debris on rwy. Obstructions: 50 ft wide, 1225 ft fr rwy 02, 300 ft left of ctrln, 20:1 slope to clear 250' left at controlling point rwy 02.	None	None: Stolen (vandalism )	None	1,150 (Avg 22/week) 87% transient; 13% local
Sanostee	3,500'x45'		None	Dirt/Poor. No longer exists.	None	None	None	0
Rock Point**	3,700'x50'	01/19	None	Dirt/Poor. Steep hill is too close in the NE for takeoff. Inactive.	None	None	None	60
Teec Nos Pos	3,000'x80'		None	Dirt/Poor. No longer exists.	None	None	None	0
Shonto**	3,500'x75'	01/19	None	Dirt/Poor. Good location.	None	None	None	0
Chilchinbeto	1,850'x20'		None	Dirt. No longer exists. Poor location. Needs new location.	None	None	None	0
Leupp	1 mile		None	Old airstrip by N15 is vacant. Dirt runway is gone. Currently, planes land at Transwestern's Winslow Compressor Station 9 miles E. for medical emergencies: paved runway.	None	None	None	0
Inscription House	4,500'x75'		None	Dirt. Unsafe and unusable.	None	None	None	0
Navajo Mountain	3,600'x100'		None	Dirt/Poor. Good location	Wind indicator	None	None	0
Cameron	4,000'x75'		None	Dirt/Poor. No activity	None	None	None	0
Kaibeto	3,500'x75'		None	Dirt/Poor. Unsafe: encroached by residential dev. Needs new location.	None	None	None	0
Torreon	2,400'x50'		None	Dirt/Runway damaged beyond repairs. Not in use. No longer exists.	None	None	None	0
Pinon**	3,200'x60'	01/19	None	Dirt. Site has been encroached with storage buildings and power lines.	None	None	None	0
Lukachukai**	3,350'x75'	12/30	None	Dirt/Poor. No longer exists	None	None	None	60
Rocky Ridge**	2,500'x45'	03/21	None	Dirt	Wind indicator	None	None	0
Lower Greasewood	4,750'x50'		None	Dirt/Poor.	None	None	None	0
	2,275'x100'	05/23	None	Dirt.	Wind indicator	None	None	60
Monument Valley	3000'x50'		None	Dirt runway with paved apron	Unknown	None	None	
Nazlini	200'x20'		None	Dirt runway	Unknown	None	None	
Alamo				No information				

Source: Arizona State Aviation Needs Study 2000; New Mexico Airport System Plan 2003; FAA Airport Master Record 2004; 2001 NDOT survey.

Notes: \* Airports currently in use \*\*Airports included in the AZ SASP.

Table VIII-3. Existing Airports within the geographic area not owned or operated by Navajo Nation

Airport Name	Runway Dimension	Runway Direction	Based Aircraft	Runway Data/ Conditions	Navigational Aids	Lighting	Other Facilities	Annual Operations
	Dimension	Direction		Conditions	Alus		aciilles	Operations
Goulding's	3,200'		Unknown	Private, serving tourists; runway locates half on private land and half on Navajo Nation (half paved/half dirt); apron w/ 2-3 tie-downs; hangar; office bldg. Severe down draft from mountain.	Unknown	Unknown	Unknown	Unknown
Thoreau			None	Private: Owned by Transwestern Pipeline. Not open to public. Asphalt runway.	None	None	None	0
Lake Valley	2,600'x60'		None	Private: Owned by La Vida Mission, Inc for transport of doctors. Gravel runway; no runway marking. Well maintained.	Windsock	None	None	0
Klagetoh			None	Private: Owned by Transwestern	Unknown	Unknown	Unk	0
Black Mesa	6000'x75'	18/36	Single Eng: 3	Private, Asphalt, Good Condition, Owned by Peabody Mining	AWOS PAPI Windsock	Yes	Unknown	Unknown
Polacca (Hopi)	4200'x50'	04/22	Single Eng: 1	Owned by Hopi Tribe and operated by BIA, runway paving is in fair condition	Windsock	No	None	900

## C. PLANNING CONSIDERATIONS

## 1. Issues

Numerous issues are facing the Navajo Nation airport development. FAA funding criteria limit the number of airports qualified for funding. State funding and local matching are scarce, while airport maintenance funds are virtually non existent. As a result, only the Navajo Primary Airports get funded. This makes the Navajo Nation airport system less efficient with limited coverage service areas leaving many remote areas without air transportation or usable airstrips for safety landing and medical evacuation.

#### **Funding:**

Development Funds: To be funded by FAA AIP, an airport must be included in the NPIAS. Only eight of the Navajo Nation airports are included in the national plan, and are eligible for funding. Funding all planned development to meet airport development goals and air transportation needs is an issue facing the Navajo Nation.

**State Aviation Funds:** New Mexico has a program which will fund elgible projects at one-half of the local share which would mean the Navajo Nation would then be responsible for the other 2.5% of the local share. Arizona and Utah have shown limited interest in assisting the Navajo Nation in funding the federal AIP program though Arizona has introduced legislation allowing the contribution of state funds to Native American airports. The state share in airport federal aid projects will normally be 2.5% with 2.5% contributed by the local sponsor, the Navajo Nation. The remaining 95% would be federal aid. Navajo DOT has not pursued the use of state funds in the past.

**Maintenance Funds:** FAA funds are not available for airport maintenance. However, airports constructed with FAA AIP funds must be maintained, requiring the use of local funding sources. In the past, the Nation's airport maintenance fund was scarce and inadequate. The Vision 100 provision regarding nonhub airports may change all that. It allows the Nation to acquire funds from FAA for airport maintenance. Navajo DOT needs to check whether its airports are qualified for maintenance funds under the new aviation legislation so that they can be used to supplement the Navajo Nation's new airport maintenance funding source, the Navajo Nation Fuel Excise Tax.

**Matching Funds:** With the availability of the Navajo Nation Fuel Excise Tax, the lack of local matching funds will be a thing of the past. However, the Transportation and Community Development Committee needs to make certain that the tribal matching funds requirement (Approximately 5% of total project cost) will be available to secure FAA funding through appropriation of the Navajo Nation Fuel Excise Tax.

#### **Medical Evacuation:**

Medical transportation is the primary use for the Navajo Nation airports. Only six Navajo Nation Primary Airports serve this purpose. Many clinics and healthcare facilities lack access to air transportation or are over 30 minutes drive from an airport. Although five of the IHS healthcare facilities have helipads (Chinle Hospital, Inscription House Clinic, Shiprock Hospital, Crownpoint Hospital, and Ft. Defiance Hospital which is planned to get one soon). These helipads are for licensed medevac flights only. IHS highly recommends development of more landing strips for medical and public uses, because there is a need for routine air transport of doctors and patients

#### **Aviation Safety:**

The Navajo Reservation is large and remote, availability of emergency landing strips is crucial for aviation safety. Many of the Navajo Nation Secondary Airports are unsafe or unusable. These airports need improvements as well as new airport development to meet the coverage radius of 25 miles to be used for emergency landings on the Navajo Reservation.

## 2. Planning Criteria

To address medical transportation and safety issues, aviation service coverage on the reservation must increase. To provide aviation safety and to qualify for the FAA funding, all airports must meet federal and aviation industry design standards. Aside from meeting medical and aviation safety needs, air transportation must also meet the needs for the Navajo Nation's economic development.

#### Service Coverage:

Geographic coverage of 25-mile radius for each airport is a nominal goal for the Navajo Nation airport system development. A 25 mile distance is a minimum 30-minute drive. It is assumed that any ground transportation time exceeding 30 minutes will discourage use of air transportation in rural areas. Currently only six Navajo Nation Primary Airports are developed, but their locations are spaced apart beyond the 25-mile radius. Therefore, more airports need to be developed to reduce the service coverage gap.

#### **Airport Design Standards:**

To make Navajo Nation Primary Airports safe and fully efficient and meet future operations forecasts (Table VIII-4), they need to meet standards for Airplane Design Group II, Approach Category B with full length taxiways. The future forecast is based on regional and local aviation demand studies by State aviation divisions and the 1992 Navajo Nation Airport System Plan's recommendation.

#### **Tourism Needs:**

The Navajo Nation air transportation has yet to expand to its full potential to meet tourism demand. Due to the enormous size of the Navajo Reservation, auto travel to many places takes most of a day. Air transportation can drastically cut travel time and becomes an alternate mode of touring of the Navajo Reservation to make it more attractive. Chaco Canyon National Historical Park is nationally known but presently has no usable airstrip close by. There have been reports that both the Chinle and Kayenta airports have seen increased usage in tourist traffic where tourists have been flown in to the area and then proceed to either Canyon De Chelly or Monument Valley via tour bus or van.

#### **Community Needs:**

There are communities within the Nation boundaries that have expressed interest in developing airports/airstrips for use by community members, commercial enterprises, and governmental entities. One such community is Pinon where the school district has expressed interest in assisting in developing some type of airport/airstrip for use by their staff and others in the community.

To create an efficient and safe airport system, the Navajo Nation long range transportation airport planning thus must address these issues and set to meet the planning criteria mentioned above. Below is a summary and specifics of the long range development goals and plans.

## D. LONG RANGE DEVELOPMENT GOALS AND PLANS

## 1. Primary Airports

To increase aviation service coverage and maximize FAA funding, develop all eight primary airports. To upgrade all primary airports to meet Airplane Design Group II, Approach Category B standards and increase capacity to meet future operation forecasts. To meet airport design standards and capacity goals. The followings are recommended capacity goals for each primary airport:

VFR hourly capacity: 98 operations
IFR hourly capacity: 59 operations
Annual service volume: 230,000 operations

Annual projected demand: 8,000 -12,000 (Tuba City, Window Rock)

4,000 - 6,000 (Shiprock, Chinle, Kayenta) 1,000-3,000 (Oljatoh, Ganado, Crownpoint)

Average delay per operation: 0 Ultimate full length taxiways

Non-precision instrument approach

Table VIII-4 illustrates projected based aircraft and annual operation forecast based on state aviation needs studies and NDOT estimate.

Table VIII-4. Navajo Nation Airport Based Aircraft and Annual Operation Forecast

	2000	2020	2000	2020
A '	Based	Based	Annual	Annual
Airport	Aircraft	Aircraft	Operations	Operations
Shiprock	0	2	1,150	4,100
Tuba City	0	0	6,500	**8,000
Kayenta	3	3	4,700	**6,000
Oljetoh	0	2	0	**1,000
Crownpoint	0	2	500	1,000
Chinle	6	6	2,400	**4,000
Window	8	16	7,000	**11,000
Ganado	0	1	700	**1,000

Source: Arizona State Aviation Needs Study 2000; New Mexico Airport System Plan 2003; and NDOT Estimate (\*\*)

To meet the aviation goals and forecast described above, this plan recommends improvement of all existing primary airports and construct a new primary airport in Ramah Chapter to expand service coverage to this satellite Navajo community (Table VIII-5). These Navajo primary airports including Ramah are eligible for FAA funding.

Goulding's is a private airport. Its runway is only half paved on the private land and half dirt on the Navajo Nation's land (Table VIII-3). There is an obstruction close by to the south. Overall, the airport is unsafe. Navajo DOT, therefore, recommends constructing a new Oljatoh airport to replace Goulding's and the old Oljatoh Airports. The local community has rejected any plans for relocation of the Oljetoh airport and though considered to be a part of the Navajo Nation airport system it is not included in any future planning other than identifying that something in the area needs to be addressed.

Table VIII-5. Proposed 20-Year Improvement Plan for Primary Airports

Airport	Improvement Needs and Recommendations	FY	Estimated Construction Cost
Window Rock	Total 20-year Improvements:	2000-2020	\$7,250,000
	Taxiway reconstruction, navigational aid replacement, auto parking lot rehabilitation	2009	\$1,000,000
	Pavement maintenance	2010-2020	\$500,000
	Construct remaining partial parallel taxiway	2010-2020	\$800,000
	Acquire additional 142 acres	2010-2020	\$200,000
	Connect three connecting stubs	2010-2020	\$50,000
	Install ASOS	2006-2010	\$190,000
	Painting and striping runway	2010-2020	\$10,000
	Pavement maintenance	2010-2020	\$1,500,000
Objects	Pavement maintenance	2010-2020	\$3,000,000
Chinle	Total 20-year Improvements:	2010-2020	\$6,415,000 \$1,000,000
	Parallel taxiway construction, apron expansion  Install electrical, water, and phone	2010-2020 2010-2020	\$50,000
	Complete parallel taxiway construction	2010-2020	\$400,000
	Construct pilot waiting area	2010-2020	\$60,000
	Construct restroom	2010-2020	\$30,000
	Construct maintenance facility	2010-2020	\$100,000
	Pavement maintenance	2010-2020	\$500,000
	Install VISAIDS	2010-2020	\$100,000
	Extend Rwy 17-35 by 2930' (7,130'x 60')	2010-2020	\$1,000,000
	Construct full parallel taxiway: 7170'x25'	2010-2020	\$2,000,000
	Construct one connecting stub	2010-2020	\$20,000
	Pavement maintenance	2010-2020	\$100,000
	Install AWOS	2010-2020	\$120,000
	Upgrade AWOS	2010-2020	\$180,000
	AWOS-3	2010-2020	\$75,000
	Install NPI	2010-2020	\$80,000
	Pavement maintenance	2010-2020	\$100,000
Ganado	Total 20-year Improvements:	2000-2020	\$4,970,000
	New paved runway construction 18/36, 6,600' x 75'; runway lights	2010-2020	\$3,000,000
	Install VISAIDS	2010-2020	\$100,000
	Pavement maintenance	2010-2020	\$500,000
	Construct 250 sq. ft building	2010-2020	\$100,000
	Runway lighting, install MIEL, MIRL & PAPI	2010-2020	\$400,000
	Construct pilot waiting area	2010-2020	\$60,000
	Construct rest room Install electrical, water, phone	2010-2020 2010-2020	\$30,000 \$80,000
	Pavement maintenance	2010-2020	\$100.000
	Pave partial taxiway	2010-2020	\$250,000
	Pave apron	2010-2020	\$200,000
	Pavement maintenance	2010-2020	\$150,000
Гuba City	Total 20-year Improvements:	2000-2020	\$6,270,000
	Runway reconstruction1,600'x75', drainage improvements	2010-2020	\$2,000,000
	Painting and striping runway	2010-2020	\$10,000
	Lighting improvements	2010-2020	\$100,000
	One atmost a set also selled to describe	2010-2020	\$300,000
	Construct partial parallel taxiway		
	Construct partial parallel taxiway  Construct taxiway parallel to runway	2010-2020	\$1,700,000
	Construct taxiway parallel to runway Construct pilot waiting area	2010-2020 2010-2020	\$60,000
	Construct taxiway parallel to runway Construct pilot waiting area Pavement maintenance	2010-2020 2010-2020 2010-2020	\$60,000 \$100,000
	Construct taxiway parallel to runway Construct pilot waiting area Pavement maintenance AWOS-3	2010-2020 2010-2020 2010-2020 2010-2020	\$60,000 \$100,000 \$100,000
	Construct taxiway parallel to runway Construct pilot waiting area Pavement maintenance AWOS-3 Complete full parallel taxiway (6,230'x75')	2010-2020 2010-2020 2010-2020 2010-2020 2010-2020	\$60,000 \$100,000 \$100,000 \$1,500,000
	Construct taxiway parallel to runway Construct pilot waiting area Pavement maintenance AWOS-3 Complete full parallel taxiway (6,230'x75') Pavement maintenance	2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020	\$60,000 \$100,000 \$100,000 \$1,500,000 \$400,000
Crownpoint	Construct taxiway parallel to runway Construct pilot waiting area Pavement maintenance AWOS-3 Complete full parallel taxiway (6,230'x75') Pavement maintenance Total 20-year Improvements:	2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2000-2020	\$60,000 \$100,000 \$100,000 \$1,500,000 \$400,000 \$3,020,000
Crownpoint	Construct taxiway parallel to runway Construct pilot waiting area Pavement maintenance AWOS-3 Complete full parallel taxiway (6,230'x75') Pavement maintenance Total 20-year Improvements: Runway rehabilitation, turnaround rehabilitation	2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2000-2020 2010-2020	\$60,000 \$100,000 \$100,000 \$1,500,000 \$400,000 \$3,020,000 \$1,000,000
Crownpoint	Construct taxiway parallel to runway Construct pilot waiting area Pavement maintenance AWOS-3 Complete full parallel taxiway (6,230'x75') Pavement maintenance Total 20-year Improvements: Runway rehabilitation, turnaround rehabilitation Install security fencing/gates/lights	2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020	\$60,000 \$100,000 \$100,000 \$1,500,000 \$400,000 \$3,020,000 \$1,000,000 \$150,000
Crownpoint	Construct taxiway parallel to runway  Construct pilot waiting area  Pavement maintenance  AWOS-3  Complete full parallel taxiway (6,230'x75')  Pavement maintenance  Total 20-year Improvements:  Runway rehabilitation, turnaround rehabilitation  Install security fencing/gates/lights  Rehabilitate runway lighting (MIRL/electrical vault)	2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020	\$60,000 \$100,000 \$100,000 \$1,500,000 \$400,000 \$3,020,000 \$1,000,000 \$150,000 \$250,000
Crownpoint	Construct taxiway parallel to runway  Construct pilot waiting area  Pavement maintenance  AWOS-3  Complete full parallel taxiway (6,230'x75')  Pavement maintenance  Total 20-year Improvements:  Runway rehabilitation, turnaround rehabilitation  Install security fencing/gates/lights  Rehabilitate runway lighting (MIRL/electrical vault)  Install guidance signs	2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020	\$60,000 \$100,000 \$100,000 \$1,500,000 \$400,000 \$3,020,000 \$1,000,000 \$150,000 \$250,000 \$30,000
Crownpoint	Construct taxiway parallel to runway  Construct pilot waiting area  Pavement maintenance  AWOS-3  Complete full parallel taxiway (6,230'x75')  Pavement maintenance  Total 20-year Improvements:  Runway rehabilitation, turnaround rehabilitation  Install security fencing/gates/lights  Rehabilitate runway lighting (MIRL/electrical vault)  Install guidance signs  Rehabilitate runway (Crack seal/fog seal/restripe)	2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020	\$60,000 \$100,000 \$100,000 \$1,500,000 \$400,000 \$3,020,000 \$1,000,000 \$150,000 \$250,000 \$200,000
Crownpoint	Construct taxiway parallel to runway  Construct pilot waiting area  Pavement maintenance  AWOS-3  Complete full parallel taxiway (6,230'x75')  Pavement maintenance  Total 20-year Improvements:  Runway rehabilitation, turnaround rehabilitation  Install security fencing/gates/lights  Rehabilitate runway lighting (MIRL/electrical vault)  Install guidance signs  Rehabilitate runway (Crack seal/fog seal/restripe)  Rehabilitate apron (Crack seal/fog seal/restripe/replace tiedowns)	2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020	\$60,000 \$100,000 \$100,000 \$1,500,000 \$400,000 \$3,020,000 \$1,000,000 \$150,000 \$250,000 \$200,000 \$90,000
Crownpoint	Construct taxiway parallel to runway  Construct pilot waiting area  Pavement maintenance  AWOS-3  Complete full parallel taxiway (6,230'x75')  Pavement maintenance  Total 20-year Improvements:  Runway rehabilitation, turnaround rehabilitation  Install security fencing/gates/lights  Rehabilitate runway lighting (MIRL/electrical vault)  Install guidance signs  Rehabilitate runway (Crack seal/fog seal/restripe)	2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020 2010-2020	\$60,000 \$100,000 \$100,000 \$1,500,000 \$400,000 \$3,020,000 \$1,000,000 \$150,000 \$250,000 \$30,000



Airport	Improvement Needs and Recommendations	FY	Estimated Construction
		0040 0000	Cost
	Acquire maintenance equipment (snow removal/mover)	2010-2020	\$150,000
	Construct maintenance equipment building	2010-2020	\$150,000
	Install weather reporting equipment (AWOS-3, P/T)	2010-2020	\$150,000
	Acquire/install emergency generator	2010-2020	\$50,000
	Annual maintenance	2010-2020	\$300,000
Shiprock	Total 20-year Improvements:	2000-2020	\$6,790,000
	Runway rehabilitation, reshape and marking; taxiway shoulders	2010-2020	\$1,500,000
	Maintenance	2010-2020	\$100,000
	Runway lighting, install MIEL, MIRL & PAPI, beacon and wind tower replacement	2010-2020	\$1,900,000
	Install security fencing/gates/lights	2010-2020	\$400,000
	Improve service roads	2010-2020	\$300,000
	Rehabilitate taxiway	2010-2020	\$1,200,000
	Extend taxiway to runway 20	2010-2020	\$300,000
	Rehabilitate apron	2010-2020	\$390,000
	Improve airport drainage	2010-2020	\$500,000
	Maintenance	2010-2020	\$200,000
Kayenta	Total 20-year Improvements:	2000-2020	\$14,855,000
•	Construct Apron (1)	2010	\$1,000,000
	Construct Access Road (1)	2010	\$1,000,000
	Construct Storage Building for Maintenance Equipment (1)	2011	\$400,000
	Wildlife Perimeter Fencing (1)	2011	\$600,000
	Helicopter pads (1)	2011	\$500,000
	Parallel Taxiway, Grade and Drain (1)	2011	\$1,200,000
	Parallel Taxiway, Paving (1)	2012	\$1,800,000
	Install Taxiway Lighting (1)	2012	\$400,000
	Conduct Obstruction Survey (1)	2013	\$75,000
	Construct two tie-downs	2010-2020	\$5,000
	Construct restroom	2010-2020	\$60,000
	Install electrical, water and phone services	2010-2020	\$70,000
	Pavement maintenance	2010-2020	\$1,000,000
	Overlay runway w/ 2" asphaltic concrete	2010-2020	\$1,500,000
	Painting and striping	2010-2020	\$50,000
	Construct airport terminal	2010-2020	\$500,000
	On-site waste water disposal system	2010-2020	\$40,000
	Construct pilot waiting area	2010-2020	\$70,000
	Install REIL	2010-2020	\$70,000
	Install PAPI	2010-2020	\$70,000
	Install AWOS/VISAIDS	2010-2020	\$150,000
	Extend runway 05-23 by 30' (7,130'x75')	2010-2020	\$100,000
	Install ILS	2010-2020	\$1,800,000
	Install HIRL	2010-2020	\$500,000
	Purchase ARFF vehicle	2010-2020	\$400,000
	Pavement maintenance	2010-2020	\$1,500,000
Total			\$49,570,000

Notes: \* Construction year contingent to local government/chapter approval. Cost estimate does not include planning and engineering.

Included in the ADOT Tentative Program, FY 2010 - 2014

PAPI - Precision Approach Path Indicator REIL - Runway End Indicator Lights

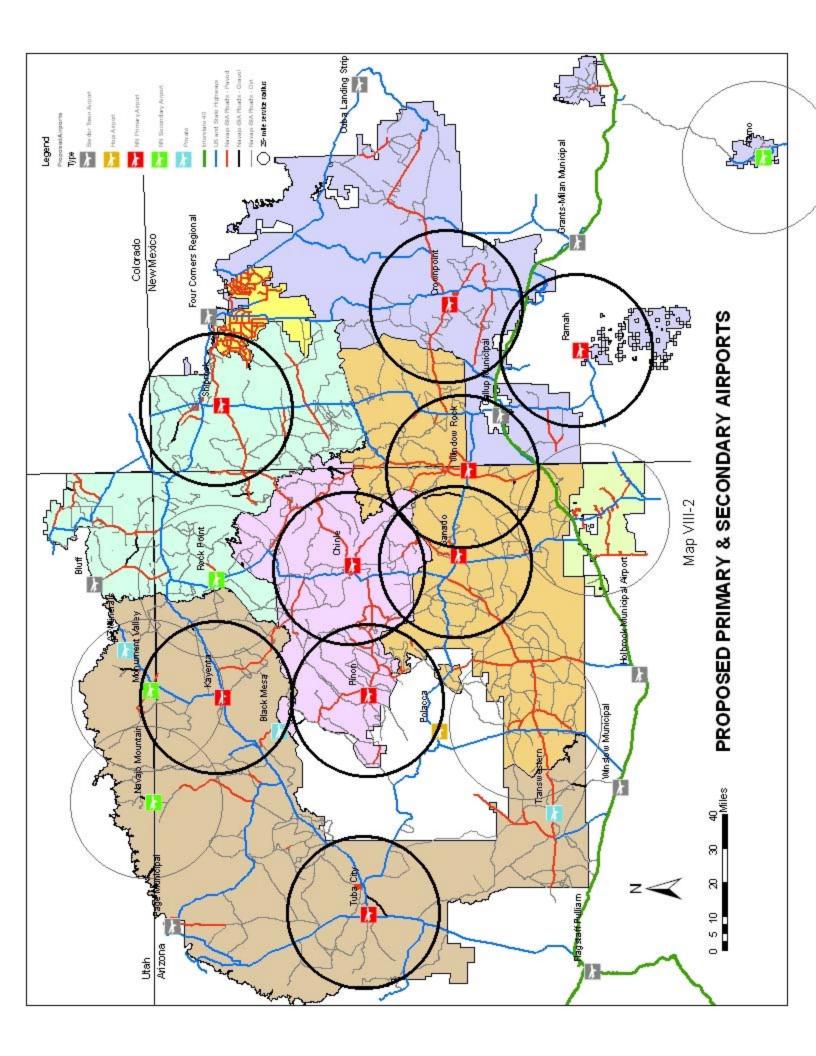
HIRL - High Intensity Runway Lights

MIRL - Medium Intensity Runway Lights MITL - Medium Intensity Taxiway Lights

AWOS - Automated Weather Observing System

Map VIII-2 illustrates the proposed primary and secondary airport locations.





## 2. Secondary Airports

To increase airport service coverage within the Navajo Reservation; to provide air transportation services to healthcare facilities in remote areas; and to provide for emergency landings.

To upgrade secondary airports to make them usable, efficient, and safe; to improve and develop the secondary airports to meet design standards for Airplane Design Group I, Approach Category B standards.

This plan recommends improvements of Navajo Nation Secondary Airports at six locations (Map VIII-2). Table VIII-6 shows recommended improvements of these Navajo Secondary Airports to meet long range development goals described above. However, these Navajo secondary airports are not eligible for FAA funding, this plan recommends funding them with the Navajo Nation Fuel Excise Tax, State, and/or other funding sources.

Table VIII-6. Proposed 20-Year Improvement Plan for Secondary Airports

Table VIII-0.	rioposeu zu-rear improvemen			
Airport	Service Coverage/Needs	Proposed Improvements	FY	Estimated Construction Cost
Rock Point	To serve Red Mesa and Rock Point clinics/areas	Grading, 8" Aggregate Base Course (ABC) to the surface	2010-2020	\$1,000,000
		Paving and navigational aids.	2010-2020	\$3,000,000
Navajo Mountain	To serve Navajo Mountain and Inscription House clinics/areas	Grading, 8" Aggregate Base Course (ABC) to the surface	2010-2020	\$1,000,000
		Paving and navigational aids.	2010-2020	\$3,000,000
Monument Valley		Grading, 8" Aggregate Base Course (ABC) to the surface	2010-2020	\$1,000,000
		Paving and navigational aids.	2010-2020	\$3,000,000
Dilcon	To serve Dilcon, Leupp, and Lower Greasewood areas.	Grading, 8" Aggregate Base Course (ABC) to the surface	2010-2020	\$1,000,000
		Paving and navigational aids.	2010-2020	\$3,000,000
New Lands	To serve Nahata Dziil Community and economic development.	Grading, 8" Aggregate Base Course (ABC) to the surface	2010-2020	\$1,000,000
		Paving and navigational aids.	2010-2020	\$3,000,000
Alamo		Grading, 8" Aggregate Base Course (ABC) to the surface	2010-2020	\$1,000,000
Pinon		Grade and place Aggregate Base on runway surface	2010–2020	\$1,000,000
Ramah		Construct paved runway, navigational aids, apron, runway lights	2000-2010	\$3,700,000
		Paving and navigational aids	2010-2020	\$3,000,000
All		Airport Maintenance	2010-2020	\$360,000
Total			_	\$29,060,000

Table VIII-7. Total Estimated 20-Year Airport Improvement Costs

Funding Source	Airport Category	# of Airports	FY	Cost
FAA	Primary Airports	9	2000-2020	\$49,570,
				000
NNFET, State, Others	Secondary Airports	6	2000-2020	\$29,060,000
Total				\$78,630,000

## CHAPTER IX - NAVAJO BRIDGE IMPROVEMENT NEEDS

## A. BACKGROUND

The Indian Reservation Roads bridge system includes BIA owned and non-BIA owned bridges. IRR bridges must be on public roads within or providing access to an Indian reservation. They can be owned by states, counties, BIA, tribal, or local government. There are 745 bridges owned and maintained by the BIA in 30 states. Of these, 178 (approximately 24 percent) are bridges on the Navajo-BIA roads.

To identify bridge improvement needs, the BIADOT is required to develop a bridge inventory and inspect all BIA bridges every two years. To be included on the National Bridge Inventory (NBI), a bridge or multiple opening culvert must have a span length of at least 20 feet and be of a required configuration. The inspection identifies bridge rehabilitation and replacement needs for each region. The BIA bridge inspection data is forwarded to FLHO for inclusion in the NBI. FHWA maintains the NBI and inspection database and provides copies to BIA Regional Offices.

## B. FUNDING

Section 1119 of the SAFETEA-LU authorizes \$14 million per year for fiscal years 2005 through 2009 from the Highway Trust Fund for the Indian Reservation Roads Bridge Program (IRRBP) to carry out preliminary engineering (PE), construction engineering (CE), and construction to replace or rehabilitate structurally deficient or functionally obsolete IRR bridges.

## C. BRIDGE IMPROVEMENT NEEDS

SAFETEA-LU, Section 1115 requires an implementation of a Bridge Management System (BMS) in IRR transportation planning and improvement program. The BIA bridge inspection and database are used in identifying a sufficiency rating for each bridge.

The 2007 bridge inventory is used to identify bridge improvement needs in this plan. Of the total 178 bridges, 58 bridges were identified for deficiencies, including 33 bridges needing replacement (Table IX-1) and 25 bridges needing rehabilitation (

IX-1

Table IX-2) by BIA-NRODOT Bridge Design Section. Map IX-1 shows locations of all bridges and those needing improvement. BIA-NRODOT Bridge Design Section estimates a total cost of \$23,804,000 (Table IX-3) to improve all 58 deficient bridges. These cost estimates are for replacement and rehabilitation of existing bridges only. They do not address any new or proposed bridge construction needs beyond any identified deficiencies or current capacity.

Criteria are used in the improvement needs assessment to identify bridge deficiencies for reasons of condition or function. These criteria are then used to develop an overall sufficiency rating. A bridge having sufficiency rating of less than 50 qualifies for replacement. A bridge having sufficiency rating between 50 and 80 qualifies for rehabilitation.

Table IX-1. Navajo Bridges Needing Replacement

Agency	Needs Priority	Bridge No.	Bridge Name	Route No.	Sufficiency Rating	Status	Length (meters)	Estimated Improvement Cost
FORT DEFIANCE	1	N617	SAND SPRING CREEK	N321	2.0	SD	23.8	\$350,000
FORT DEFIANCE	2	N628C	KIN LI CHEE WASH	N39	2.0	SD	16.0	\$331,000
SHIPROCK	3	N228	TOH-CHIN-LINI WASH	N5037	3.0	SD	18.2	\$380,000
SHIPROCK	4	N241	TOADLENA WASH	N5001	6.4	SD	13.6	\$295,000
SHIPROCK	5	N226	IRRIGATION CANAL	N5031	9.3	SD	9.9	\$225,000
FORT DEFIANCE	6	N642	SAGE WASH	N39	9.9	SD	9.0	\$195,000
FORT DEFIANCE	7	N619C	COAL MINE WASH	N541	13.8	SD	25.9	\$338,000
FORT DEFIANCE	8	N629	KIN LI CHEE WASH	N203	16.4	SD	14.1	\$352,000
FORT DEFIANCE	9	N666	RIO PUERCO RIVER	N00	16.4	SD	86.6	\$1,122,000
SHIPROCK	10	N214C	CAPTAIN TOM WASH	N5001	16.6	SD	27.0	\$337,000
FORT DEFIANCE	11	N660	FIQUERDO WASH	N9504	16.6	SD	27.2	\$450,000
FORT DEFIANCE	12	N667	CRYSTAL CREEK	N9603	17.5	SD	19.1	\$217,000
FORT DEFIANCE	13	N616	CRYSTAL CREEK	N321	18.2	SD	26.2	\$445,000
FORT DEFIANCE	14	N606	UPPER BONITO WASH	N9073	19.7	SD	15.0	\$253,000
FORT DEFIANCE	15	N649	WASH	N9660	20.5	SD	15.4	\$350,000
W ESTERN NAVAJO	16	N307	MOENKOPI WASH	N6731	24.0	SD	22.1	\$485,000
FORT DEFIANCE	17	N651	WASH	N108	28.6	SD	32.6	\$530,000
W ESTERN NAVAJO	18	N323	PIUTE CREEK	N6310	30.6	SD	27.4	\$112,000
SHIPROCK	19	N235	GARFIELD LOOP WASH	N132	35.7	SD	6.1	\$180,000
CHINLE	20	N517	TSE CHIZZI WASH	N67	35.8	SD	32.5	\$50,000
FORT DEFIANCE	21	N613	TODILITO WASH	N12	37.0	SD	74.3	\$2,100,000
CHINLE	22	N521	BIS LI AH WASH	N26	38.2	SD	55.1	\$810,000
W ESTERN NAVAJO	23	N314	LAGUNA CREEK	N6486	39.7	SD	10.7	\$440,000
FORT DEFIANCE	24	N656	RIO PUERCO W ASH	N9402	41.3	FO	124.7	\$1,800,000
SHIPROCK	25	N248	WALKER CREEK	N35	44.6	SD	27.3	\$510,000
W ESTERN NAVAJO	26	N309	DINNEBITO WASH	N6720	45.4	FO	15.4	\$480,000
SHIPROCK	27	N230	KIT SILI WASH	N5045	45.5	SD	9.1	\$235,000
CHINLE	28	N507	CHINLE W ASH	N8086	46.0	SD	134.9	\$412,000
FORT DEFIANCE	29	N636	WHITEWATER CREEK	N9402	48.1	FO	19.9	\$490,000
W ESTERN NAVAJO	30	N320	DENNEBITO WASH	N6732	48.3	SD	19.9	\$350,000
FORT DEFIANCE	31	N645	STEAMBOAT WASH	N9054	48.8	SD	9.1	\$370,000
FORT DEFIANCE	32	N658	WIDE RUINS WASH	N28	48.9	FO	12.4	\$350,000
EASTERN NAVAJO	33	N487	WHITE ROCK WASH	N7057	49.6	SD	9.0	\$205,000
TOTAL			33 Bridges					\$15,549,000

Source: BIA-NRODOT Bridge Design Section, April 24, 2009.

Notes: SD = Structurally Deficient FO = Functionally Obsolete



IX-2

Table IX-2. Navajo Bridges Needing Rehabilitation

Agency	Needs Priority	Bridge No.	Bridge Name	Route No.	Sufficiency Rating	Status	Length (meters)	Estimated Improvement Cost
SHIPROCK	34	N225	IMMANUEL MISSION WASH	N5037	54.9	FO	9.1	\$145,000
SHIPROCK	35	N257	WASH	N33	55.7	SD	13.8	\$25,000
FORT DEFIANCE	36	N665	SLICK ROCK CREEK	N12	56.1	SD	12.1	\$46,000
W ESTERN NAVAJO	37	N310C	KAIBETO WASH	N6331	60.4	SD	15.3	\$117,000
FORT DEFIANCE	38	N641	LONE TULE WASH	N39	63.7	FO	10.8	\$100,000
EASTERN NAVAJO	39	N488	INDIAN CREEK	N9652	64.3	SD	15.4	\$116,000
SHIPROCK	40	N231	MONTEZUMA CREEK	N5099	66.6	SD	56.4	\$154,000
CHINLE	41	N540	WEPO WASH	N4	66.7	SD	8.1	\$34,000
CHINLE	42	N516	TSE CHIZZI WASH	N65	68.8	SD	32.5	\$108,000
CHINLE	43	N504	WHEATFIELD CREEK	N12	70.7	FO	29.4	\$311,000
SHIPROCK	44	N255	WASH	N33	71.8	SD	8.7	\$18,000
W ESTERN NAVAJO	45	N319	SAN FRANCISCO W ASH	N6910	71.9	FO	19.9	\$102,000
W ESTERN NAVAJO	46	N318	SAN FRANCISCO WASH	N6923	72.0	FO	19.5	\$107,000
W ESTERN NAVAJO	47	N308	LAGUNA CREEK	N6486	72.2	FO	20.0	\$150,000
FORT DEFIANCE	48	N682	BLACK CANYON WASH	N15	72.6	SD	7.6	\$19,000
SHIPROCK	49	N213	CLAH WASH	N5001	74.2	FO	11.0	\$125,000
SHIPROCK	50	N252	CHINLE W ASH	N8070	74.9	FO	182.9	\$1,700,000
W ESTERN NAVAJO	51	N313	LAGUNA CREEK	N6461	75.8	FO	18.3	\$150,000
CHINLE	52	N512	TOHOTSO WASH	N133	75.8	FO	31.4	\$427,000
CHINLE	53	N503	WHISKEY CREEK	N12	79.3	SD	29.4	\$159,000
FORT DEFIANCE	54	N675	PEACH SPRINGS WASH	N9	79.6	FO	9.8	\$53,000
EASTERN NAVAJO	55	N486	CHURCH CAMP WASH	N7054	79.9	FO	18.3	\$201,000
FORT DEFIANCE	56	N623 *	COYOTE WASH	N60	86.2	SD	42.5	\$0
CHINLE	57	N532 *	EAST FORK DENNEBITO WASH	N41	95.7	FO	52.8	\$0
CHINLE	58	N538 *	COTTONWOOD WASH	N251	95.8	SD	24.4	\$0
TOTAL			25 Bridges					\$4,367,000

Source: BIA-NRODOT Bridge Design Section, April 24, 2009.

Notes: SD = Structurally Deficient

FO = Functionally Obsolete

Rridges with sufficiency rating higher that 80 and status of Structurally De

bridges.

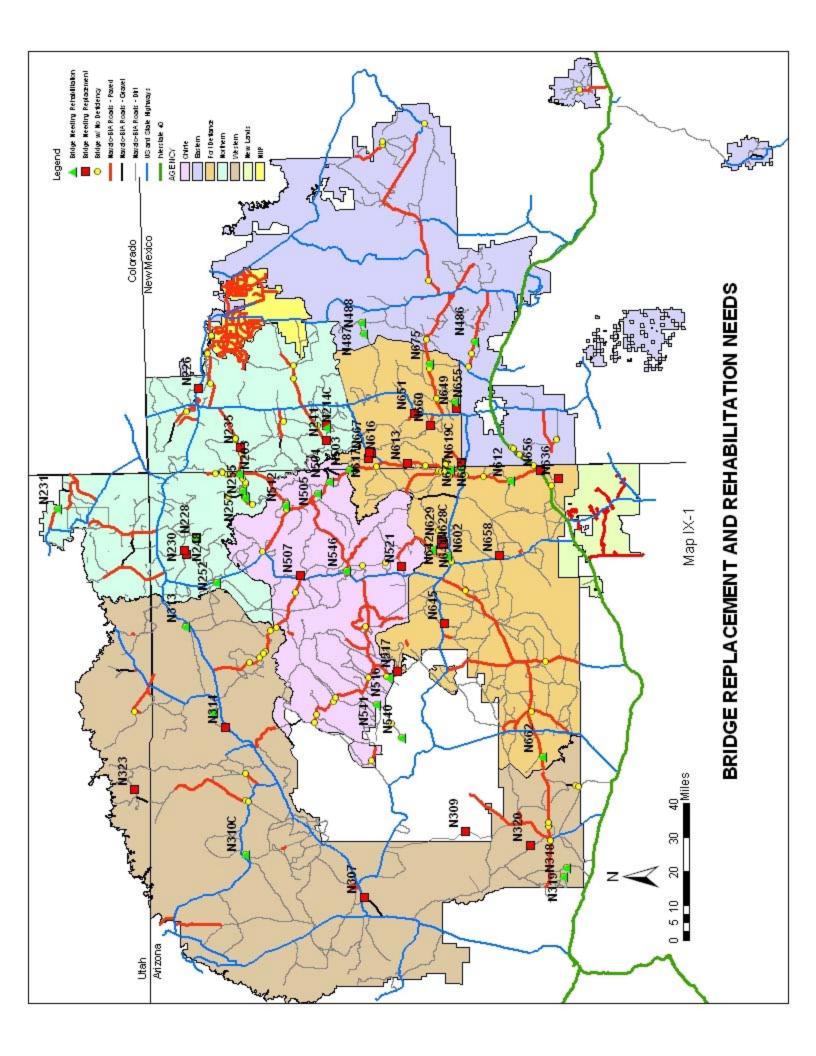
Table IX-3. Total Funding Needs for Navajo Bridge Improvements

Total # of Bridges Needing	Total Estimated Design Cost*	Total Estimated Replacement Cost	Total Estimated Rehabilitation Cost	Total Funding Needs
Improvement				
58	\$3,888,000	\$15,549,000	\$4,367,000	\$23,804,000

Source: BIA-NRODOT Bridge Design Section, April 24, 2009.

<sup>\*</sup> Bridges with sufficiency rating higher that 80 and status of Structurally Deficient or Functionally Obsolete. \$0 cost as defined by the Recording and Coding Guide were not necessary for these

<sup>\*</sup> Design cost estimated as 25% of replacement cost.



## CHAPTER X - NAVAJO-BIA ROADS MAINTENANCE

## A. BACKGROUND

As a condition for the continuing use of Federal Lands Highway funds including IRR and in accordance with 23 USC 116, roads and projects constructed with the Highway Trust Fund (HTF) must be maintained to FHWA standards. If any projects or roads constructed with such funds are not properly maintained, the Secretary of Transportation may withhold approval of further FHWA projects. IRR roads and bridges are to be maintained to guarantee safe transportation for the traveling public. Prior federal transportation legislation requires the IRR road maintenance program to implement a Pavement Management System (PMS) and Maintenance Management System (MMS). Furthermore, road maintenance must also be performed in compliance with all applicable federal and tribal regulations and codes including the Clean Water Act, Cultural Resources Protection Act, Occupational Safety and Health Administration, Noxious Weeds, Resource Conservation and Recovery Act, and Endangered Species Act.

Since 1951, Congress has appropriated the Department of Interior funds for road maintenance annually under the Tribal Priority Allocations (TPA). Funds allocated for road maintenance are to be spent on BIA system roads and on other Indian Reservation roads when covered by an agreement. The BIA Regional Offices and Agencies are responsible for maintenance of roads and bridges on the BIA road inventory.

As of 1994, nationwide IRR roads maintained by BIA consisted of 25,700 miles of BIA and tribal owned roads (IRR Stewardship Plan, 1996). The national BIA road maintenance budget allocations have decreased with \$26.4 million being allocated in FY 2000 versus \$24.8 million in FY 2009. The Department of Interior (DOI) allocates road maintenance funds to BIA regional offices by formula (used for distributing TPA). This formula is outdated and does not reflect individual tribal needs (National Academy of Public Administration Study of the Bureau of Indian Affairs Management and Administration, September, 1999). Under Tribal Priority Allocations, road maintenance has low priority. After the allocation is made for road maintenance at the Department level, funds are distributed between the BIA Regional Offices based on mileage and the type of road surface. The BIA-NRODOT distributes road maintenance funds to BIA-NRODOT agency offices in a similar manner.

### B. BIA NAVAJO ROAD MAINTENANCE PROGRAM

Funded by DOI road maintenance funds, the Navajo IRR Road Maintenance Program is a program within the BIA-NRODOT. It consists of engineers and technical employees at the Regional and Agency Offices including Shiprock and Crownpoint in New Mexico; Tuba City, Chinle, and Fort Defiance in Arizona; and other maintenance units at Farmington, New Mexico (Navajo Irrigation Industry Project) and Sanders, Arizona (New Lands).

The BIA Road Maintenance Program may only preserve, repair, or restore system roads to their original condition. The Road Maintenance Program may not expend maintenance funds to improve roads. Navajo road maintenance is accomplished mainly through force account operations, which is the use of BIA employees and equipment to complete the routine work. Some activities such as striping and chip sealing are contracted. Maintenance is under the authority and supervision of the NRO Road Engineer delegated to the Agency/unit Road Engineers and the Superintendent in the Eastern Navajo Agency in Crownpoint.

## C. FUNDING

Prior to 1992, the Navajo road maintenance funds increased from \$1.57 million in FY1975 to \$9.86 million in FY1991, representing an average of 39.5% of funding requests or maintenance needs. However, since then funding for the Navajo Region Road Maintenance Program has declined with FY 2008 being funded at \$5.9 million. While road maintenance needs have increased in proportion to increasing road construction funding (roads/projects constructed with HTF must be maintained), Navajo road maintenance funds instead have declined steadily for the past several years.

According to the BIA-NRODOT the \$5.9 million FY 2008 road maintenance fund was allocated to all agencies as indicated in Figure X-1. While in FY 2007 \$6.5 million was spent on routine maintenance, bridge maintenance, snow and ice control, emergency maintenance, and program management as shown in Figure X-2.

Figure X-1 – 2008 Allocations

FY 2008 Allocations

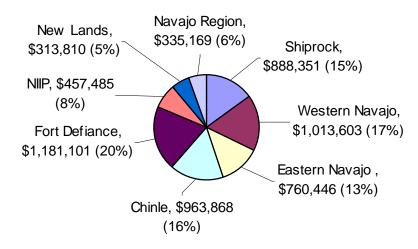
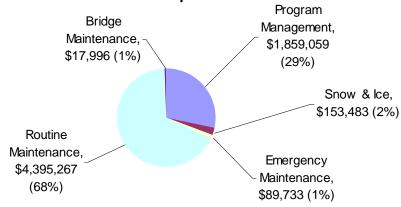


Figure X-2 2007 Allocations FY 2007 Expenditures



## D. NAVAJO ROAD MAINTENANCE NEEDS

The BIA-NRODOT reports that there is limited supporting statistical data to analytically verify the Navajo Nation's backlog of road and bridge deferred maintenance needs due to the lack of MMS and PMS data. To address the need for data concerning deferred maintenance BIA-NRODOT has been using a combination of Level of Service (LOS) measurements and developing estimated road maintenance costs for the different classes and types of roadways.

BIA-NRODOT rates road maintenance conditions based on the LOS measurements outlined in Table X-1. Using the LOS, the Agency Roads Engineers and the Gallup office determine the roadway condition and serviceability. Since the goal is to maintain the roadway to the condition it was when constructed, there is an effort to maintain those roadways more recently improved while performing the work that is required to keep older roadways passable. This rating system is not correlated with any other system that is used to determine the roadway need for improvement.

X-2

## Table X-1 - Level of Service

LOS	Description
1	This is a very high maintenance service in which the roadway and associated features are in excellent condition.  All systems are operational and users experience no delays.  At this maintenance service level, very few deficiencies are present and the overall appearance is pleasing.  Preventive maintenance is practiced in all maintenance activities resulting in overall low life-cycle costs and pleasing appearance. Routine activities take place on a regular basis, requiring minimal corrective maintenance activities.
2	This is a high maintenance service level in which the roadway and associated features are in good condition. All systems are operational. User may experience occasional delays.  At this maintenance service level, very few deficiencies are present in safety and investment protection activities, but moderate deficiencies exist in all other areas. Preventive maintenance is practiced for safety-related work, is deferred in other maintenance areas, resulting in additional routine and corrective maintenance measures.  Corrective maintenance of all elements is handled in a timely manner. Life-cycle costs for maintenance activities are generally low.
3	This is a medium maintenance service leveling which the roadway and associated features are in fair condition. Systems may occasionally be inoperable and not available to users. Short-term delays may be experienced when repairs are being made, but would not be excessive.  At this maintenance service level, very few deficiencies are present in safety related activities, but moderate deficiencies exist for investment protection activities and significant aesthetic related deficiencies. Preventive maintenance is deferred for most activities except safety-critical work. A backlog of deficiencies begins to build up that will have to be dealt with eventually at a higher cost. Some roadway structural problems begin to appear due to long-term deterioration of the system. There is a noticeable decrease in appearance.
4	This is a low maintenance service level in which the roadway and associated features are kept in generally poor condition. System failures occur regularly because it is impossible to react in a timely manner to all problems. Occasionally delays may be significant.  At this maintenance service level, moderate deficiencies are present in safety related activities, and significant deficiencies for all other activities. Little preventive maintenance is accomplished. Maintenance has become very reactionary and places emphasis on correcting problems as they occur. A significant backlog of deficiencies will begin to build up that will have to be dealt with eventually, at a much higher cost. Safety problems begin to appear that increase risk and liability, and significant roadway structural deficiencies exist that accelerate the long-term deterioration of the system. The overall appearance is very poor.
5	This is a very low maintenance service level in which the roadway and associated features are kept in very poor to failing condition. A backlog of system failures would occur because it is impossible to react in a timely manner to all problems. Significant delays occur on a regular basis.  At this maintenance service level, significant deficiencies are present in all maintenance activities. The overall appearance is not aesthetically pleasing. Preventive maintenance is not realistic for any maintenance activity. Maintenance is totally reactive, and places emphasis on correcting problems after they occur. Significant backlogs of maintenance treatments are not enough to correct the deficiencies that exist, necessitating additional high-cost remedial construction reservation projects in the future. Overall maintenance operations are at their highest lifecycle cost.

### 1. Pavement Maintenance

#### Miles of Paved Roads to be Maintained:

Out of 6,147.9 miles of the total Navajo-BIA roads, 1,494.4 miles or 24% are paved roads. Using service level rating system, approximately 478 miles of paved Navajo-BIA roads are rated at a level 1 or 2 (GPRA Road Maintenance, FY09, 3rd Quarter).

The maintenance of paved roads is a high priority since most paved roads on the Navajo-BIA road system are Class 2 or major or minor arterial highways serving traffic between population centers, Class 4 roads with high ADT collecting local traffic onto the arterial roads, and Class 3 roads or streets within community/population centers serving residential and commercial areas. The higher priority is also due to the policy in maintaining roads constructed using Federal Highway funds since the use of these funds require a commitment to maintenance by the user of these funds. Also, paved roads have substantially more investment per mile when constructed and require a significant effort to protect that investment.

Paved roads require routine maintenance such as snow plowing, roadside clean-up, mowing and striping. An inadequate road maintenance budget does not allow for sufficient equipment, personnel, and materials to adequately maintain all paved roads to acceptable standards. As a result, only main paved Navajo-BIA roads can be plowed in the winter leaving most community and residential streets covered with snow and ice. Roadside mowing and restriping cannot be done in a routine manner, as a result pavement marking is faded region wide, invisible at night and during bad weather. Roads in populated areas serving tribal government offices and housing are full of potholes. Major Class 2 and Class 4 roads are cracked and have become unsafe for heavy traffic.

#### Paved road maintenance includes:

Patching; crack sealing; ditch, culvert, and cattle guard clean-out; striping; guardrail, sign and delineator replacements; repair, and cleaning; fence and gate repair; roadside clean-up and mowing; sealing; oversize and encroachment permits; cooperation with other public road agencies.

#### **NHA Street Maintenance:**

The 1994 Memorandum of Agreement (MOA) between the BIA-and NHA for the BIA-NRODOT to maintain NHA housing streets was cancelled by NHA and the BIA Contracting Officer never renewed it. Since the Navajo DOT has inventoried these housing streets as tribal roads, the NHA street maintenance thus falls under the Navajo DOT's responsibilities. It can be funded by the Navajo Nation or the IRR funds set aside for road maintenance (25% of IRR fund can be used for road maintenance).

#### **Compound and Education Streets:**

These roads were built by the BIA Branch of Facility Management and with education funds. However, the maintenance responsibility still lies with the BIA schools and BIA facility Management. The road maintenance of these roads should not to funded by IRR, DOI, or Navajo Nation funds.

### 2. Gravel and Dirt Road Maintenance:

#### Miles of Gravel and Dirt Roads to be Maintained:

Out of 6,147.9 miles of total Navajo-BIA roads, 105.7 miles are gravel roads, 4,203 miles are dirt roads, and 277 miles are considered primitive roads (see Chapter 3).

The maintenance of unpaved roads is typically at a lower priority than that of paved roads. However, 76% (4,600 miles) of the Navajo-BIA road system is unpaved. These are Class 4 and 5 roads collecting traffic for arterial roads and providing connections within the grid of the Navajo IRR road systems. They serve areas around Navajo population centers, farming areas, schools, tourist attractions and commercial areas. They may include forest roads, roads serving grazing areas, mines, recreation, and other purposes (e.g., school bus routes). Unpaved roads require labor intensive routine maintenance such as surface grading on a regular basis and after periods of inclement weather to make them passable. Navajo reservation soils are generally poor. Many miles of roads are on clay, sand and silt soils. In some areas monthly blading is still inadequate.

Earth road maintenance includes: Surface blading; ditch pulling; culvert and ditch clean-out, cattle guard clean-out; fence repair; rock outcrop removal; limited stretches of mud bridging; culvert installation when necessary to protect the existing road; sign replacement; rock raking; cooperation with other public road agencies, etc.

#### Additional Miles of Gravel and Dirt Roads to be Maintained:

BIA-NRODOT has a cooperative agreement with the BIA-Western Region Office (Phoenix) for maintenance of 650.5 miles of roads in the former Navajo-Hopi Joint Use Area. The road maintenance to be provided by the BIA-NRODOT Chinle, Fort Defiance, and Western agencies in number of miles is identified below:

Western Navajo Agency: 68.0 miles
Chinle Agency: 255.5 miles
Fort Defiance Agency: 101.0 miles
Hopi Agency: 226.0 miles

#### Other Responsibilities:

BIA-NRODOT Fort Defiance and Chinle Agencies have agreements with local chapters to supply fuel and other supplies for chapter graders in order for them to perform maintenance on BIA system roads.

X-4

## 3. Bridge Maintenance: See Chapter XI for bridge maintenance.

## 4. Airport Maintenance:

### **Number of Airports to be Maintained:**

Seven (7) airports on the Navajo Nation are to be maintained by the BIA-NRODOT Agency Offices. They are the Shiprock, Crownpoint, Tuba City, Chinle, Pinon, Ganado, and Window Rock airports. Kayenta airport is maintained by the Kayenta Township. The 58BIAM manual includes airports as functional classification Class 7, entitled to be included in the road inventory and maintenance needs.

Due to inadequate road maintenance funding, maintenance of Navajo airports by the BIA-NRODOT is often reduced to emergency maintenance. The Navajo Division of Transportation provides small maintenance functions (e.g. weed control, runway light ball replacement, runway repairs) with in-house labor/staff when funds are available. Navajo DOT has no full airport maintenance program in place with a budget for crew and equipment to do a full scale airport maintenance.

Airport maintenance includes: Snow removal, surface grading and patching, fence repair, emergency maintenance services as determined by the Navajo Region Road Engineer.

## 5. Equipment Needs:

Most of the heavy equipment utilized by the Navajo road Maintenance program to maintain roads and bridges is old and in need of replacement. This includes graders, loaders, tractor/trailer combinations, and snow removal equipment. The current inventory shows heavy equipment is inadequate and in too poor condition to provide for sufficient road and bridge maintenance. New equipment such as rollers, dozers, brooms, and crack sealers is also needed. The basic road maintenance budget is inadequate to fund road maintenance operations; adequate equipment purchases are generally unattainable with the allocated funds. According to BIADOT–NRO maintenance records for FY 2007 the deferred minor and major repairs are equal to \$3.28 million for just over 190 pieces of equipment.

#### 6. Personnel Needs:

The road maintenance program requires sufficient and skilled maintenance crews. Full-time professional, technical, administrative, and seasonal employees are all necessary. Currently, the BIA-NRODOT Road Maintenance Program does not receive enough funds to be staffed with necessary and sufficient crews to provide all necessary maintenance activities. Additional employees are needed.

### 7. Facilities Needs:

The BIA-NRODOT Road Maintenance Program must also provide a safe working environment for all employees in the form of buildings, equipment shops, and offices. The existing program has limited the maintenance of existing facilities and shops to safe standards for the employee working environment, and limited acquiring new facilities to replace cramped, inefficient, and environmentally hazardous facilities.

## E. MAINTENANCE FUNDING NEEDS AND ESTIMATE

When the "2003 Navajo Nation LRTP" was completed, DOI had changed the method used for funding requests. Budget planning is based on base funding with a justification for an increase. The justification for increased amount is required in a narrative to identify specific program needs and request funding for them. The written justification is very important to highlight the program's importance and the impact of not being a top TPA priority.

The BIA program manual for road maintenance (82 IAM), requires each BIA Regional Office to submit a Road Maintenance Budget Needs Report each year for two years in the future. The report is required to use a fixed cost per mile based on road type when preparing a funding request. The original cost per mile numbers are listed below.

\$2,500/mile for paved road maintenance

\$1,900/mile for gravel road maintenance

\$1,300/mile for improved dirt road maintenance

\$600/mile for unimproved dirt road maintenance

These road maintenance cost figures were formulated in 1988 and have not been updated. The budget request is also to be prepared only for once-a-year maintenance. To illustrate that the 82 IAM required road maintenance cost figures are unrealistic, BIA-NRODOT compares its road maintenance funding per mile and total miles of maintained roads with the county road maintenance program figures (Table X-2).

Table X-2. BIA and County Road Maintenance Data

Highway Agency	Average Funding Per Mile of All Roads (FY94 Dollars)	Total Miles Maintained
Apache County	\$2,175	1,716.0
Coconino County	\$7,842	848.0
Navajo County	\$10,821	437.0
San Juan County	\$1,378	300.0
McKinley County	\$3,057	19.5
BIA-NRODOT	\$1,311	9,430.0

Source: BIA-NRODOT 2000 Briefing

In the past few years the Navajo Region Office has not been instructed to request funds as outlined above, but receives funding as some percentage of what has been allocated in the past. The allocations received by BIA-NRODOT have varied from a low of \$5.5 million in FY 2004 to a high of \$6.7 million in FY 2007 with an allocation of \$5.9 million for FY 2008.

Secondly, the numbers listed above for calculating the average per mile maintenance costs have been updated and vary from a low of \$1,250 to \$22,400 per mile. Based on the information received from BIA-NRO, the unit mile cost is applied based on a combination of road surface type, traffic, and maintenance level of service. The method of determining the unit cost is unclear at this point.

FY2008 BIA-NRODOT road maintenance deferred maintenance costs and current allocations are shown in Table X-3. The calculated road maintenance cost has been done by BIA-NRODOT for each segment of BIA routes and the allocation shown is what has been allocated to each of the agencies for FY 2008.

Table X-3. Navajo Region Road Deferred Maintenance Program FY 2008

Agency	Allocation	Calculated Road Maintenance Cost	Deferred Maintenance
BIA-NRODOT	\$335,169	\$371,220	\$36,051
NIIP	\$313,810	\$2,195,802	\$1,881,992
New Lands	\$457,485	\$0	\$(457,485)
Shiprock	\$888,351	\$8,774,570	\$7,886,219
Western	\$1,013,603	\$7,967,674	\$6,954,071
Eastern	\$760,446	\$4,245,840	\$3,485,394
Chinle	\$963,868	\$6,838,720	\$5,874,852
Fort Defiance	\$1,181,101	\$7,974,390	\$6,793,289
Total	\$5,913,833	\$38,368,216	\$32,454,383

Source: Spreadsheet titled ROADS\_def\_maint\_N\_FY2008\_Q4, BIA-NRODOT.

The 58BIAM required road maintenance cost figures can be considered low and make it difficult to get a reasonable funding estimate that will meet the Navajo Nation's road maintenance needs. Should the TPA Navajo Road Maintenance continue to be funded at the base funding level as it has been for past decades, maintenance of Navajo roads will continue to be deferred.

Moreover, to keep within budget, less miles of roads will be maintained. Maintenance of unpaved BIA-Navajo roads (75% of the Navajo-BIA road system) will be most affected when funding is inadequate. Unpaved roads need more than once-a-year maintenance to be passable in winter and spring seasons.

# F. COOPERATIVE AGREEMENTS

To compensate for insufficient road maintenance funding from DOI, BIA-NRODOT has several cooperative agreements and contracts with Counties and other local entities to acquire funds or their assistance for maintenance of BIA roads.

Since enactment of TEA-21, a School Bus Route Maintenance Fund [Section 1214 (d)(2)] has become an additional funding source for maintenance of county and Navajo-BIA routes used by school or Headstart buses. As of August 2009, the status of the road maintenance agreements and contracts that BIA-NRODOT entered into with various entities is as follows:

Apache County, AZ: Maintenance contract is expired.

**Coconino County, AZ:** IGA has expired. The original was for the county to provide maintenance of 218 miles of roads providing access to the Navajo Reservation including Navajo-BIA roads.

**Navajo County, AZ:** MOA is current, to fund heavy equipment (for loan to BIA-NRODOT), fund a temporary employee, and fund road maintenance materials and supplies for Fort Defiance, Chinle, and Western Navajo Agencies BIA for maintenance of Navajo-BIA routes.

San Juan County, NM: No current agreements.

**San Juan County, UT:** Maintenance contracts with Shiprock and Western BIA-NRODOT for BIA routes is currently under review.

**Alamo Navajo, NM:** P.L. 93-638 contract, to provide road maintenance services on Navajo-BIA routes within the Alamo reservation boundary.

Table X-4. Mileage of Roads Maintained Under Interagency Agreements

	Miles of Roads Maintained Under	\$ BIA Received From County
County	MOU/IGA	· ·
Apache, AZ	N/A	\$0
Coconino, AZ	N/A	\$0
Navajo, AZ	320 (by BIA)	Funds received on a per project basis
San Juan, NM	N/A	N/A
San Juan, UT	MOA under review by County	\$33,888 for Western Navajo Agency \$45,000 for Shiprock Agency

Source: BIA-NRODOT, 2009

# G. NAVAJO DIVISION OF TRANSPORTATION PROGRAM

Navajo DOT has initially developed a maintenance program to complement the BIA program. Currently the program has 35 employees mostly classified as laborers and equipment operators. The Division now owns 20 motor graders, 4 front-end loaders, and 2 dump trucks along with various pickups and other miscellaneous vehicles. The program, at this point, complements both the BIA and county efforts in maintaining approximately 1,200 miles of existing dirt and gravel roadways and performing maintenance activities on transportation infrastructure not under BIA purview. There is an MOA between the BIA and Navajo DOT concerning the maintenance of BIA semi-improved roadways.

WILSON & COMPANY ON AND THE SA MACHELIS

X-7

# 1. **PL93-638 Proposals:**

Navajo DOT is in the process of proposing to contract with BIA under PL93-638 and assume the road maintenance for the BIA roads within the boundaries of the Navajo Nation. This contract is designed to enable the Navajo DOT to receive the maintenance funding from BIA and do the work to maintain the BIA designated routes. Based on employee salaries and fringe benefits it is expected that Navajo DOT may be able to do more work for the same amount of funding that BIA now receives.

The proposal is expected to be forwarded to BIA-NRO in September 2009 with the intent to contract road maintenance beginning January 1, 2010.

# 2. Funding:

The Navajo DOT maintenance funding is a combination of Navajo Nation general funding and use of the Nation Fuel Excise Tax. The fuel excise tax is a result of a compact the Nation has entered into with the States of New Mexico and Arizona where the states collect the state fuel excise tax for fuel used within reservation boundaries and rebates the state tax amount to the Nation. This fund is used for both construction and maintenance activities on Nation roadways and other transportation infrastructure.

Navajo DOT has requested and programmed in the TTIP the funds available for maintenance activities from the funding formulas established under the last Federal Transportation Act titled SAFETEA-LU. Under the Act, the Nation can program up to 25% of its allocated federal funds for transportation construction. These funds are in addition to the BIA Road Maintenance Allocation that is distributed by the Department of the Interior.

# CHAPTER XI - STATE HIGHWAY NEEDS

# A. STATE ROAD MILEAGE

State roads are an important part of the Navajo IRR system. They are the main arterials connecting Navajo population centers to the Four Corners Area's regional road networks, off-reservation towns and major airports. They are part of the interstate, national (U.S.) and state highway systems. Most state routes on the Navajo Reservation are rural two-lane highways except in urbanized areas where they are four-lane with high traffic volume. Table XI-1 summarizes the state road mileage.

Table XI-1. State Roads (in miles)

Agency	Arizona State Highways	New Mexico State Highways	Utah State Highways	Agency Total
New Lands	89.3	0.0	0.0	89.3
Northern	70.2	113.8	41.7	225.7
Western	503.5		25.9	529.4
Eastern	0.0	413.2	0.0	413.2
Chinle	60.8	0.0	0.0	60.8
Ft. Defiance	213.3	48.6	0.0	261.9
NIIP	0.0	15.2	0.0	15.2
State Total	937.1	590.8	67.6	1,595.5

Source: 2008 Navajo Region Road Inventory

Arizona, New Mexico and Utah State Departments of Transportation have classified these state roads according to their own functional classification systems. However, under the IRR regulations, these state highways meet the IRR functional classification for: Class 1, Major Arterial Roads, providing an integrated network between large population centers and having average daily traffic of 10,000 vehicles per day with more than two lanes of traffic; and Class 2, Rural Minor Arterial Roads, providing an integrated network between large population centers and having average daily traffic less than 10,000 vehicles per day, may link smaller towns and communities to major resort areas and generally provide for at least in-county or inter-state service and are spaced at intervals consistent with population density.

# 1. Class 1 Roads:

I-40 connects Flagstaff-Gallup-Albuquerque. Class 1 four-lane state roads with 10,000 ADT are AZ 264 and NM 264 from Window Rock to US 491, and US 64 and US 491 in Shiprock.

## 2. Class 2 Roads in Arizona:

US 89 (Flagstaff-Page); US 89A (Bitter Springs-Fredonia); US 160 (Tuba City-Kayenta); US 163 (Kayenta-Monument Valley); US 191 (Chambers-Ganado-Chinle); AZ 61 (Zuni-Ramah); AZ 64 (Cameron-Grand Canyon); AZ 77 (Holbrook-Indian Wells-Keams Canyon Hopi Village); AZ 87 (Winslow-Second Mesa Hopi Village); AZ 98 (Page-Kaibeto-Shonto); AZ 99 (Leupp-Winslow); AZ 264 (Tuba City-Window Rock); and AZ 564 (Navajo National Monument access).

# 3. Class 2 Roads in New Mexico:

US 64 (Shiprock-Farmington); US 491 (Gallup-Shiprock); US 550 (Bloomfield-Nageezi-Cuba-Albuquerque); NM 6 (Correo-Los Lunas); NM 57 (Chaco Canyon National Historical Park access); NM 118 (Manuelito-Gallup-Church Rock); NM 122 (Thoreau-Baca); NM 134 (Sheepsprings-Crystal); NM 169 (Alamo-Magdalena); NM 197 (Torreon-Cuba); NM 264 (Window Rock-Gallup); NM 371 (Crownpoint-Farmington); NM 400 (Fort Wingate-McGaffey); NM 509 (Whitehorse Lake-Ambrosia Lake); NM 566 (Church Rock-Pinedale); NM 597(Four Corners Monument access); and NM 602 (Gallup-Zuni-Ramah).

# 4. Class 2 Roads in Utah:

UT 163 (Monument Valley-Mexican-Hat); US 191 (Mexican Water-Bluff); UT 162 (Bluff-Aneth-Reservation line; UT 262 (US 191 – Montezuma Creek).

# B. STATE ROAD IMPROVEMENT NEEDS

The following is a discussion of state road improvement needs situated within the Navajo Nation boundaries as identified by the Navajo Department of Transportation. Future development and plans, transportation issues, and recommended transportation facility improvements are described for the major state route corridors serving the Navajo Nation.

# C. Arizona State Highways

# 1. I-40:

Interstate 40 from Flagstaff, AZ to New Mexico State line provides access to the Navajo Nation's main reservation and the Nahat'a' Dziil Chapter south of I-40 near Sanders, AZ

# **Future Development and Plans:**

- Proposed Navajo Nation Casino at Twin Arrows Exit (approx. MP 230.4)
- Proposed Nation Casino in Navajo at Pinta Road Exit (approx MP 320.01)
- Nahat'a' Dziill Commercial Center, a 35,000 sq. ft. commercial center is a proposal to house a supermarket, laundromat, retail shops, cultural/visitor center, and gas station in Sanders, Arizona. The project is located on a frontage road off the I-40 T.I. in Sanders, AZ. The shopping center will serve travelers on I-40, US191 and local residents.
- Westbound I-40 Sanders Port of Entry (POE) construction in 2007.

# **Transportation Issues:**

- I-40 Sanders Traffic Interchange needs a reconstruction to accommodate truck traffic to the new POE.
- Local school bus drivers and residents complained of speeding vehicles and difficulty when entering onto the busy I-40.

#### **Recommendations:**

- Construct a new traffic interchange at Sanders.
- Lengthen merging/entering lanes at interchanges.
- Lower speed limit to 70 mph or implement safety zone on I-40 from Sanders to New Mexico State line (MP 339 – MP 359.5).

# 2. US 89:

US 89 is Arizona's principal arterial linking I-40 in Flagstaff to Utah border. Of its entire 139 miles, 87 miles are on the Navajo Reservation.

**Future Development and Plans:** 

	Project Year	Project Name	Chapter	MP	Transportation Improvement Needs		
W8	2011	New Chapter House	Cameron	466.2	Access mgmt, street lights		
W7	2010	Truck Stop	Gap	486.0	Access mgmt, street lights		
W25	2012	Maintenance Yard	Gap	486.9	Access mgmt, at N23 Jct.		
W26	2012	Residential Housing Complx.	Gap	488.6	Access mgmt		
W4	2012	Youth Ctr.	Cedar Ridge	502.2	Access turn out		
W5	2010	New Chapter House	Cedar Ridge	505.2	Access mgmt, street lights		
W24	2012	Veteran Park	Cedar Ridge	505.2	Access Turn out		
W27	2015	Multi-Purpose Bldg.	Bittersprings	523.6	Turn out Lane		
W28	2015	Commercial Development	Bittersprings	524.0	Access mgmt, street lights at US89A Jct		

## **Transportation Issues:**

- US 89 from Cameron to Bittersprings had 10 fatal accidents from 1999 2006. One occurred at the AZ 64 intersection. One accident involved pedestrian (MP 498.4, Gap) possibly caused by vendor sales along roadway. Speeding, lane change, and following too close contributed to 40% of the traffic accidents.
- Accidents caused by animals occurred primarily between Cameron and Gap.
- Several Navajo BIA road improvements including N20 paving from Coppermine to Gap will collect and likely increase traffic on US 89.
- Many local residents ignore the daylight headlight implementation.
- Increased traffic due to future development along US 89 will require better access management design. Cameron Chapter, while supporting economic development in Cameron, has a safety concern for residents traveling to school and getting around on US 89. The casino project will increase traffic on US 89 and Cameron area.
- ADOT identifies Cameron Bridge (MP 467), Wash Bridge (MP 482) as structurally deficient, and Five Mile Wash Bridge (MP 471.43) and Moenkopi Wash Bridge (MP 477) as functionally obsolete and needing replacement.
- Lack of transit services between Flagstaff, Page and Tuba City.

#### Recommendations:

- Short Term Plans:
  - 4-lane roadway from AZ 64 to Cameron (MP 465 MP 468) to mitigate increasing tourist traffic and development at Cameron and MP 549.5 to the Colorado River Bridge to mitigate Lake Powell tourist traffic.
  - Passing sight distance improvements at Gap (MP 498 MP 504).
  - Passing and uphill lanes from Cameron to Page.
  - Passing and uphill lanes from MP 546 MP 550.
  - Address transportation needs for future developments above.
- Long Term Plans:
  - 4-lane roadway from Cameron to US 160 and a traffic signal or new interchange at US 160 intersection.
  - Transit services between Flagstaff, Page and Tuba City.
  - Pedestrian and bicycle paths between AZ 64 and Cameron.
  - Traffic lights at the proposed Casino access on US 89.

WILSON & COMPANY ON AND THE SA MACHICES

# 3. US 89A:

**Future Development and Plans:** 

NUM	Project Year	Project Name	Chapter	MP	Transportation Improvement Needs
W28	2015	Commercial Development	Bodaway	524.0	Access mgmt, street lights at US89A Jct (Bittersprings)
		Fredonia-Vermillion Cliffs Scenic Byway	Bodaway	523.9- 546.5	Signs, access mgmt at scenic stops

# **Transportation Issues:**

None

#### Recommendations:

• Address transportation needs for future developments above.

# 4. US 160:

US 160 is an Arizona principal arterial connecting US 89 to the Four Corners and is identified by ADOT State Transportation Plan as a National Truck Route for trucks and hazardous materials.

**Future Development and Plans:** 

	Detelopine	in and i land.			
NUM	Project Year	Project Name	Chapter	MP	Transportation Improvement Needs
W31	2010	Visitor Ctr/Artist Plaza/ Convenience store	Shonto	361.6	Access management, street lights
W12	2011	Baby Rock Commercial Ctr.	Dennehotso	407.5	Access Turn out
	2010	Convenience store	Dennehotso	417.7	Access mgmt, street lights
W30	2015	New School	Dennehotso	418.0	Access mgmt, street lights
N25	2014	Convenience store	Red Mesa	449.9	Access mgmt, street lights
N24	2010	Airstrip	Red Mesa	451.4	Access mgmt, street lights
N51	2010	Solid waste facility	Teec Nos Pos	459.6	Access management
N53	2013	Rodeo grounds	Teec Nos Pos	465.6	Access mgmt, street lights
N52	2012	16 Acres site development	Teec Nos Pos	465.5	Access mgmt, street lights

## **Transportation Issues:**

- US 160 is a regional truck route connecting northern Arizona to Utah, New Mexico, and Colorado.
  The area is also a destination of fuel transportation to numerous local gas stations on and near US
  160 corridor. Hazardous material transport incidents involving the release of gasoline, diesel, and oil
  have been reported. Sharing of relatively heavy truck and tourist traffic on a rural 2-lane road has
  become a safety issue.
- Tuba City: Traffic accident records from 1999-2006 show high accident ratings on US 160 in Tuba City from AZ 264 to Warrior Dr.; and at AZ 264 intersection.
- Kayenta: US 160 had high traffic volume and accident ratings at US 163 intersection; and on US 160 from MP 392.5 -MP 393.5 due to traffic congestion at shopping center and hotel development.
- US 160 have high traffic volume turning at US 89 and moderate traffic volume turning to N59 and US 64. Safety is a concern at these junctions.
- US 160 from US 163 intersection to N59 intersection had a high accident rate, with 33% caused by animal
- US 160 at US 191 intersection had a high accident rate with 78.6% occurred after dark.
- Commuters are concerned that there are no passing lanes on US 160 between MP 361 to MP 371, and rolling hills from MP 381 to MP 384.
- MP 464 to MP 466 in Teec Nos Pos has a steep grade and with increasing development, the 2-lane highway with a passing lane will no longer be efficient.

#### **Recommendations:**

WILSON & COMPANY POLICES A MACHICES

- Short Term Plans:
  - Tuba City MP 321.8 MP 322.5: Street lights, 5-lane widening, landscaping, bicycle paths and sidewalks from AZ 264 to the high school.
  - Kayenta: Street lights, raised medians, and limited access/turnoff between MP392-MP393.5.
  - Intersection lighting and warning signs at N59 (MP 402); US 191 (MP 434.8); US 64 (MP 465.4).
  - Address transportation needs for future developments above.
- Long Term Plans:
  - Passing and uphill lanes from MP 381 to MP 384.
  - Passing and climbing lanes between AZ 98 to AZ 564 intersections (MP 361 to MP 371).

# 5. US 163:

# **Future Development Plans:**

NUM	Project Year	Project Name	Chapter	MP	Transportation Improvement Needs
W17	2010	Head Start	Kayenta	398.13	Access management
W18	2010	Detention Bldg.	Kayenta	398.17	Access management

# **Transportation Issues:**

- Kayenta: US163 from MP 393.5 -MP 395 had high accidents at access to development (stores, hotel, tribal offices, and school).
- 120 accidents occurred from N6485 to Utah state line: 36% happened after dark, 22% caused by animals, 4% involved pedestrians, and 7 were fatal accidents.
- Tourist traffic to the Monument Valley Park includes those who stop to take pictures. Tourists often pull over even if no space/shoulder is available.

# Recommendations:

- Short Term Plans:
  - Kayenta: Street lights, raised medians, and limited access/turnoffs between MP 393.5-MP 396.
  - Fencing and cattle guard maintenance from Kayenta to state line.
  - Address transportation needs for future developments above.
- Long Term Plans:
  - Pullouts for tourists for safe picture taking stops along US 163.

# 6. US 191:

All of the US 191 is designated as an Arizona major collector with the segment through Chinle designated a minor arterial and IRR Class 1.

WILSON & COMPANY ON PARTIES A MACHINEES

**Future Development and Plans:** 

NUM	Project Year	Project Name	Chapter	MP	Transportation Improvement Needs
F7	2010	Commercial Development	Ganado	417.3	Access mgmt, street lights
N31	2010	Wellness Center	Rock Point	495.3	Access mgmt, street lights
N32	2011	New Chapter House	Rock Point	495.3	Access mgmt, street lights
N33	2012	Elderly Group Home	Rock Point	495.3	Access mgmt, street lights
N34	2014	Transfer Station	Rock Point	495.3	Access mgmt
		Tse'nikani/Flat Rock Mesa Byway	Many Farms- Rock Pt	462- 510.3	Signs, access mgmt at scenic stops

## **Transportation Issues:**

- Chinle: traffic safety is the transportation issue of greatest concern due to lack of traffic signals at the
  hospital access road, and lack of access control to cope with increasing congestion caused by
  numerous developments (N102 to the shopping center/flea market). Other safety issues involve
  change in roadway width from 2 to 4 lane, and animals on the road.
- US191 from Wide Ruins to Round Rock (MP 387 MP 482) had 25 fatal accidents (1999-2006).
   Driver inattention, speeding, failure to yield right of way, and drove left of centerline caused majority of these accidents.
- Limitation of developable land area will become an issue. Chinle is limited by a 100-year flood plain and mesa to the west. Future development is likely to extend along US 191.
- Burnside Junction with its future development will become a major stop for locals as well as travelers, increasing congestion. The present angled intersection layout will become an even greater problem.
- Many Farms already has congestion and access problems at the NHA housing site and hospital.
   Proposed future growth will add to the existing congestion problem.
- The US 191/N12 junction in Round Rock had frequent accidents involving animals, running stop sign, and running off road due to lack of visible intersection warning and poor intersection design.
- US 191 from N28 in Klagetoh to AZ264 (E Ganado junction) had high accident rating, 51% caused by animals on roadway.

## Recommendations:

- Short Term Plans:
  - Chinle: Street lights at the hospital access road (N102).
  - MP 417.5 MP 425.3: Pavement reconstruction
  - Fencing and cattle guard maintenance from Klagetoh to Ganado.
  - Address transportation needs for future developments above.
- Long Term Plans:
  - Chinle: 5-lane widening, access management design, roadway widening to the flea market for safety improvement: raised medians, and limited access/turnoffs between MP 446 MP 449.
  - Street lights on US 191 from airport access to N8090.
  - Chinle: Amenities such as bicycle paths and sidewalks will support tourism and create a livable community atmosphere.
  - Many Farms: 5-lane widening from junction N59/US 191 to High School turnoff.
  - MP 378.6 MP 385.3: Pavement reconstruction is needed.
  - Round Rock: Intersection warning lights, layout improvement, and fencing at US 191/N12 junction.

# 7. AZ 61:

AZ 61 turns into NM 53 in New Mexico, providing access to Ramah Chapter and Zuni Reservation from US 191.

WILSON & COMPANY PROPERTY AND PROPERTY A MICHELES

# **Future Development Plans:**

None.

## Transportation Issues:

- AZ 61 has high truck traffic of 12%.
- MP 416.6 MP 430.3: Poor pavement condition.

#### Recommendations:

• MP 416.6 – MP 430.3: Pavement rehab is needed.

# 8. AZ 64:

# **Future Development Plans:**

- The Navajo Department of Park and Recreation has proposed to develop the Little Colorado Gorge Overlook and an access road north of AZ 64 near Cameron.
- The Coalmine Canyon Chapter has proposed a 70-acre casino and hotel project with an expansion to include residential/commercial development, a golf course, and an airport east of US 89 and North of AZ 64 along the Little Colorado River.

## **Transportation Issues:**

 The proposed Little Colorado Gorge Overlook access will require turning lanes and the casino project will increase traffic in AZ 64 and Cameron area.

#### Recommendations:

- Roadway widening and turn lanes at the Little Colorado Gorge Overlook access.
- Reduce speed on AZ 64 in Cameron area.

# 9. AZ 77:

AZ 77 is a school bus route for Navajo children attending schools in Holbrook. It is also a route used by delivery and gasoline trucks to Indian well, Lower Greasewood, White Cone and Jeddito Chapters. The route also provides access to Keams Canyon Village on the Hopi Reservation.

# **Future Development Plans:**

None.

#### **Transportation Issues:**

AZ 77 has no shoulder.

#### Recommendations:

• MP 395.7 – MP 408.9: Widen/add shoulders to increase safety in winter time.

# 10. AZ 87:

AZ 87 is the main access to I-40 for Hopi villages and Dilcon Chapter, and to Winslow for shopping, school and medical care.

# **Future Development Plans:**

None.

# **Transportation Issues:**

There were 7 fatal accidents on AZ 87 from 1999-2006 in Dilkon between MP 365 – MP 380, one fatal accident happened at the AZ 87/N15 intersection. Of the total 39 accidents, 8 occurred at intersections: 3 at AZ 87/N15 (MP 375.5); 3 occurred at AZ 87/N60 (MP 365.7); 1 at AZ 87/N602 (MP 381.1); and 1 at AZ 87/N60 (MP 384.4, Seba Dalkai School access).

WILSON & COMPANY & COMPANY BYCANIS & MICHELES

#### Recommendations:

Reduced speed to 55 mph between MP 365.7 – MP 384.4 and install intersection warnings for N60 intersection (MP 365.7); N15 intersection (MP 375.3); and Seba Dalkai School access (MP 384.4).

# 11. AZ 98:

**Future Development Plans:** 

NUM	Project Year	Project Name	Chapter	MP	Transportation Improvement Needs
W32 W31	2010	Antelope Cyn Visitor Ctr Visitor Ctr/Artist Plaza/Conv Store	LeChee Shonto	299.5 361.6	Access mgmt, signage.  Access mgmt, street lights
		Naatsis'aan/Navajo Mountain Byway	Lechee- Shonto	294- 361.6	Signs, access mgmt at scenic stops

# **Transportation Issues:**

• MP 298.2 – MP 300.9: Pavement condition is poor.

## **Recommendations:**

- Short Term Plans :
  - MP 298.2 MP 300.9: Pavement rehab is needed.
  - Address transportation needs for future developments above.
- Long Term Plans:
  - Long-term pavement management is recommended.

# 12. AZ 99:

AZ 99 provides access to local residents to go to Winslow, AZ for shopping, school and medical care.

# **Future Development Plans:**

None.

# **Transportation Issues:**

 Sixty-three percent of traffic accidents on AZ 99 were caused by speeding. Twelve percent of total traffic is truck traffic.

# **Recommendations:**

- MP 69 MP 72.16: Reduce speed limit on AZ 99 and widen shoulders.
- MO 71.2 MP 72.16: Surface rehab.

# 13. AZ 264:

The 157 mile-long highway is classified as an Arizona minor arterial linking Tuba City to Window Rock then turns into NM 264 at the Arizona/New Mexico State line.

#### **Future Development Plans:**

- Ganado Shopping Center at AZ 264/N5/US 191 intersection is a major future development on AZ 264.
- Ganado community development concentrates and extends along AZ 264 between Ganado high school and Burnside Junction. A feasibility study for runway extension and paving is being done (2001) for Ganado Airport, located approximately 1 mile east of the high school.
- Karigan Estates, St. Michaels is a mixed use planned development including residential (300 housing units), office and commercial areas. The project is located at northwest corner of AZ 264/N112 junction.
- Window Rock golf course is being proposed for recreational and tourism development purposes. The Franciscan Fathers of St. Michael Catholic Church is willing to lease 125 acres to the Navajo Nation for the project.

# **Transportation Issues:**



# 2009 Navajo Nation Long Range Transportation Plan

- AZ 264 from N112 Junction to Port of Entry had a high traffic accident rate. Primary cause is congestion from Window Rock shopping centers and other surrounding development.
- Junctions AZ 264/N12 in Window Rock and AZ 264/N112 in St. Michaels had high accident rates.
- There were 52 fatal accidents (1999-2006) on AZ 264 from MP 412 MP 475.5 (Jeddito to Window Rock), majority of these occurred between Burnside Junction and Window Rock.
- Ganado: AZ 264 had a high accident rate from N27 to Ganado/Hubble Trading Post.

#### Recommendations:

- Short Term Plans:
  - Window Rock: Raised medians and limited access/turnoffs between MP 474.5 to MP 476.5.
- Long Term Plans:
  - 5-lane widening from Burnside to Summit.

# 14. AZ 564:

AZ 564 is an access to the Navajo National Monument. Adequate maintenance is crucial.

# **Future Development Plans:**

None

#### **Transportation Issues:**

None

#### Recommendations:

- Short Term Plans:
  - Routine maintenance and during inclement weather is recommended.
- Long Term Plans:
  - Long-term pavement management is recommended

# **ARIZONA HIGHWAY NEEDS 0-5 YEAR PRIORITY:**

Priori ty	Route No.	Project Mileposts and Improvement Needs	Project Miles	ADT	Pavement Condition
1	I-40	MP 339-MP 359.5: Lower speed limits to 70 mph.	20.5	17345- 18536	Moderate- Good
2	US163	MP 393.5-MP 395.7: Street lights, raised median, limited turn offs	2.2	13527	Moderate
2	US160	Kayenta-MP 392-MP 393.6: Street lights, raised median, limited access/turn off.	1.6	4914	Moderate
3	US89	MP 546-MP 550: Needs passing lanes.	4.0	5387- 6964	Moderate- Good
4	US160	Tuba City-MP 321.8-MP 322.5: Street lights, 5-lane widening, and intersection layout redesign.	0.7	6147	Moderate
5	AZ264	Window Rock-MP474.5-MP 476.5: Raised median to limit turn offs	2.0	16477	Good
6	AZ98	MP 298.4-MP 300.9: Pavement rehab.	2.5	5289	Poor
7	US191	Chinle Hospital/N106 Jct-MP 446.7: Street lights	0	5237	Moderate
8	US191	MP 417.5-MP 425.3: Pavement reconstruction.	7.8	3505	Poor
9	US89	MP 498-MP 504: Passing sight distance improvements in Gap/Bodaway.	6.0	3488	Moderate
10	US160	N59 (MP 402); US 191 (MP 434.8); US 64 (MP 465.4): Intersection lightings and warning signs	0	2364 2944 4039	Moderate Good Good
11	I-40	MP 339.5/Sanders Exit: Lengthen exit merging/entering lanes	0.1	18000	Moderate
12	AZ64	Cameron-MP 294-MP 295.8: Reduce speed to 50 mph.	1.8	3289	Moderate
13	AZ87	MP 365-MP 385: Reduce speed to 55 mph.	20.0	1728	Moderate
14	AZ87	MP365.7; MP 375.5; MP 384.4: Install intersection warning signs.	0	1728	Moderate

# **ARIZONA HIGHWAY NEEDS 5-10 YEAR PRIORITY**



Priori	Route	Project Mileposts and Improvement Needs	Project	ADT	Pavement
ty	No.		Miles		Condition
1	AZ264	Burnside-Summit (MP 441-MP 465.5): 5-lane	24.5	5308-	Moderate-
		widening		7041	Very good
1	US191	Burnside Junction-MP417.5: New Intersection design	0.01	3505	Poor
2	US191	Chinle-MP 446-MP 449: Raised median, widen; MP	3	9917	Poor
		448.3-449: Widen to 5-lane	0.7		
2	US191	Chinle-MP 446-MP 449: Bicycle path and sidewalks	3.0	9917	Poor
2	US191	MP 446.7 – MP 447.8: Pavement reconstruction.	1.1	9917	Poor
2	US191	MP 445.7/Chinle Airport access: Street lights	0	5237	Moderate
3	US89	Cameron-US180 Jct.	15.0	7999	Moderate-
		MP 465-MP 480: Widen to 4-lane			Good
3	US89	US89/US160 Jct: Traffic signalization/Interchange	0	7999	Good
4	US160	MP 381-MP 384: Passing lane.	3.0	4914	Good
5	US160	MP 361-MP 371: Passing lane	10.0	4341	Moderate-
					Good
6	AZ64	Little ColoradoGorge Overlook MP 294.5: Roadway	0.1	3289	Moderate
		widening and turning lanes			
7	US163	MP 396-MP 416.7/UT State line: Pullouts		2893	Good
8	AZ77	MP 395.7-MP 408.9: Widen/add shoulders to improve safety	13.2	1702	Moderate
9	US191	US191/N59-HS (MP 461.7-462.5): 3-lane widening	0.8	1597	Moderate
10	US191	Round Rock-US191/N12 Jct: Intersection warning	0.1	1597	Moderate
		lights, layout improvement and fencing			
11	US191	MP 378.6 – MP 385.5: Pavement reconstruction.	6.9	1310	Poor
12	AZ99	MP 69-MP 71.2: Reduce speed limit and widen	2.2	630	Moderate
		shoulders.			
		MP 71.2-MP 72.2: Surface rehab.	1.0	630	Poor
13	AZ61	MP 416.6-MP 430.3: Pavement rehab.	13.7	238	Poor

# D. New Mexico State Highways

# 1. I-40:

Approximately 140 miles of Interstate 40 extends from Arizona State line into New Mexico providing access to Navajo Nation residents from Nahat'a' Dziil/Sanders, AZ to the Navajo Nation's capital, Window Rock and connecting Navajo communities along I-40 (Manuelito, Church Rock, Iyanbito, Thoreau, Tohajiilee and Alamo Chapters) to Gallup, NM and Albuquerque, NM.

**Future Development and Plans:** 

ruture	e pevelop	inent and Plans:			
NUM	Project Year	Project Name	Chapter	MP	Transportation Improvement Needs
N6	2010	New Senior Center	Beclabito	3.8	Access mgmt, street lights
N8	2012	Picnic ground	Beclabito	3.8	Access mgmt
N9	2010	Multi-Purpose building	Beclabito	3.8	Access mgmt, street lights
N7	2011	Skate Park	Beclabito	3.9	Access mgmt, street lights
N13	2010	Community cemetery	Cudeii	18.8	Access mgmt
N47	2010	Skate Park facilities	Shiprock	21.5	Access mgmt, street lights
N42	2014	Community library	Shiprock	23.15	Access mgmt, street lights
N43	2012	Visitor Center	Shiprock	23.16	Access mgmt, street lights
		Trail of the Ancients Byway	Tee Nos Pos- Farmington	0-60	Signs, access mgmt at scenic stops

# Other planned developments include:

- Gadiihi-Tokoi Chapter land use plans include development of scenic view site of Shiprock "Rock with Wings" and Tribal Park at MP 17 and Navajo Route N-571 to become a State, Tribal or National Park.
- Hogback- Proposed economic and community development plans for Tse Daa Kaan (formerly known as Hogback) to western end of AZ state line.



#### **Transportation Issues:**

• I-40 between Church Rock and Iyanbito has been sometime flooded during heavy rain storms. Currently there is no direct access from I-40 to Fire Rock or Red Rock State Park.

## **Recommendations:**

• A highway interchange on I-40 at Red Rock State Park access/NM566 to provide a direct access to the Fire Rock Casino is recommended in order for the casino to be successful.

# 2. US 64:

# **Future Development Plans:**

- Future land use and development in Shiprock is likely to extend along US64 corridor to the east and west of US491 intersections in Shiprock.
- Beclabito Chapter land use plans includes development of community development at MP 6.
- Gadiihi-Tokoi Chapter land use plans includes development of scenic view site of Shiprock "Rock with Wings" and Tribal Park at MP 17 & Navajo Route N-571 to become a State, Tribal or National Park.
- Hogback- Proposed economic and community developments plans for Tse Daa Kaan (formerly known as Hogback) to western end of AZ Stateline.

## **Transportation Issues:**

- There were a total of 18 fatal accidents on US64 from MP 18.0 MP 31.0, three involved pedestrians (at MP 23.6, MP 23.7, and MP 26.8).
- Most frequent traffic accidents occurred between MP 21.8 MP 23.1 (260 accidents from 1999 2006): 77% of these accidents were caused by driver inattention, speeding, failure to yield right of way, following too close and improper turn due to congestion from development along US64.
- US491/US64 SW and NE junctions also had high accident rating among road intersections. High turning traffic volume and poor intersection design may contribute to high accident number.
- Poor night visibility at entrances of Shiprock High School, Career Prep High School, Eva Stokely Elementary School, Dine College, Office Navajo Tribal Utility Authority and other tribal programs.
- NM 64 between US491/NM 64 SW to NE Junctions had the highest accident rate among all road sections on the Navajo Nation (1999-2007). Traffic congestion at access to commercial developments and several school establishments are contributed to traffic accidents in Shiprock.
- Gadiiahi Chapter House turn out road (N57) or highway 64 MP 17 is in need of traffic lights, turn out lane and accelerating and decelerating lanes.
- Tokoi community at the N571 and Highway 64 intersection is in need of street lights, turn out lanes and accelerating and decelerating lanes.
- Beclabito Chapter House, NM Highway 64, MP 4, is in need of street lights; turn out lanes at access to chapter house, housing subdivision, and commercial outlet stores.
- From Shiprock to AZ Stateline, the road needs to complete new overlaying of asphalt. The road has many cracks, narrow shoulders and some bridges are recommended for replacements.
- Shiprock Bridge over San Juan River is in dire need of replacement.

#### Recommendations:

- Short Term Plans:
  - Install street lights on NM64 from MP 20.0 (Shiprock High School) to MP 23.4.
  - Reduce speed limit from MP 20 MP 24.
  - Widen U.S. 64 along the Shiprock High School zone, MP 20-22.
  - Address transportation needs for future developments above.
- Long Term Plans:
  - Install street lights, sidewalks, and complete US64 widening to 4-lanes from MP 20 to MP 24.6 to
    provide safety for future development including turning lanes at access road to Gadiiahi Chapter
    and Tokoi communities.
  - Redesign US491/US64 SW and NE intersections.
  - Recommended as Scenic Byways in the Four Corners Region. When recognized by the State, Navajo Nation, and Federal to create rest areas and other local scenic/overlook stops.

# 3. US 491:



**Future Development Plans:** 

NUM	Project Year	Project Name	Chapter	MP	Transportation Improvement Needs
F20	2012	Multi Purpose Bldg	Twin Lakes	13.2	Street lights and sidewalks
N22	2012	Multi-Purpose building & Veterans Park	Newcomb	56.7	Access mgmt, street lights
N45	2012	Fair grounds	Shiprock	88.0	Access mgmt, street lights
N49	2011	Hotel & restaurant	Shiprock	90.8	Access mgmt, street lights
N50	2012	Hotel & Conference Center	Shiprock	90.8	Access mgmt, street lights
N46	2014	Multi-Purpose building	Shiprock	90.9	Access mgmt, street lights
		Trail of the Ancients Byway	Gallup- Shiprock	0-107	Signs, access mgmt at scenic stops

# **Transportation Issues:**

- US491 has become a major north-south truck route. Passing and safety become problems on US491 due to high truck traffic volume.
- Nighttime visibility is very poor at access roads to Navajo communities, Chapter houses and schools along US 491.

## **Recommendations:**

- Short Term Plans:
  - Install street lights at Twin Lakes Chapter House, N9, N30 (Mexican Springs), N108/N130 (Tohatchi Chapter House and schools), Nashitti School/Chapter House, N5001 (Newcomb school/Chapter House), N19/N5 (Two Grey Hills), N34 (Sanostee), and N13 (Red Valley/Cove) junctions.
  - Address transportation needs for future developments above.
- Long Term Plans:
  - 4-lane widening from Shiprock to Cortez, CO is recommended in distant future.

# 4. US 550:

**Future Development Plans:** 

		THORIC I IMIIOI			
NUM	Project Year	Project Name	Chapter	MP	Transportation Improvement Needs
E23	2012	Fire Equip & Bldg	Counselor	97.1	Access mgmt, sidewalks, street lights
E26	2014	Commercial site development (11acres)	Counselor	97.1	Access mgmt, sidewalks, street lights
E21	2010	Senior Center	Counselor	97.9	Access mgmt, sidewalks, street lights
E22	2011	Computer Lab	Counselor	97.9	Access mgmt, sidewalks, street lights
E24	2013	Multi-Purpose Ctr	Counselor	97.9	Access mgmt, sidewalks, street lights
E25	2013	Transfer Station	Counselor	97.9	Access mgmt
E55	2011	Senior Ctr	Nageezi	115.4	Access mgmt, sidewalks, street lights
		Trail of the Ancients Byway	Nageezi- Bloomfield	123.1- 150	Signs, access mgmt at scenic stops

# **Transportation Issues:**

Increased traffic due to the casino can become a safety issue.

#### Recommendations:

- Short Term Plans:
  - Address transportation needs for future developments above.
- Long Term Plans:
  - Traffic signal and lights at NM 197, and street lights in Cuba.

# 5. NM 57:

# **Future Development Plans:**

None.

# **Transportation Issues:**

NM57 provides access to the Chaco Canyon National Historic Park and Navajo residents in the area.
 However, the entire 40.1 miles is dirt surface and during wet weather it becomes impassable to the Park visitor and residents.

#### **Recommendations:**

 Gravel and partially pave NM57 with respect to the National Park's need to minimize disturbance to the ruins.

# 6. NM 118:

# **Future Development Plans:**

NUM	Project Year	Project Name	Chapter	MP	Transportation Improvement Needs
E54	2012	Economic dev	Manuelito	6.9	Turning lanes
E18	2011	Police Substation	Church Rock	28.9	Access mgmt, sidewalks, street lights
E20	2014	VA Memorial Park	Church Rock	29.2	Access mgmt, sidewalks, street lights
E19	2012	Multi-Purpose Center	Church Rock	29.5	Access mgmt, sidewalks, street lights
	2010	Convenience Store	Church Rock	29.5	Access mgmt, sidewalks, street lights

## **Transportation Issues:**

 The Fire Rock Casino has dramatically increased traffic on NM118. NM118 was already collected traffic from Church Rock Chapter and vicinity, visitors to Red Rock State Park, and business and truck traffic to Church Rock Industrial Park.

# **Recommendations:**

- Short Term Plans:
  - Widen NM118 to 4-lane road and acquire land to resolve roadway widening and drainage problem.
  - Address transportation needs for future developments above.
- Long Term Plans:
  - I-40 Interchange to provide access to Church Rock Chapter, industrial park and the Fire Rock Casino.

# 7. NM 122:

# **Future Development Plans:**

None

# **Transportation Issues:**



Safety for school bus traffic due to increased traffic.

## **Recommendations:**

- Access management at school turn-off
- Routine maintenance of NM 122, especially during inclement weather

# 8. NM 134:

NUM	Project Year	Project Name	Chapter	MP	Transportation Improvement Needs
N40	2014	Day Care Center/Visitor Ctr	Sheep Springs	0.4	Access management and street lights
		Trail of the Ancients Byway	Sheepsprings- Crystal	0-23	Signs, access mgmt at scenic stops

## **Transportation Issues:**

None.

# Recommendations:

- Short Term Plans:
  - Install street lights and 3-lane widening of NM134 and US491 at Sheep Springs to improve safety and accommodate Sheep Springs Visitor Center, commercial store, day care and NHA housing traffic.
  - Address transportation needs for future developments above.
- Long Term Plans:
  - No recommendations.

# 9. NM 169:

NM169 provides access to Alamo Navajo Chapter residents to Socorro, NM and I-25 and links this Navajo Nation's satellite community with the main reservation and Window Rock via N55 and I-40. NM169 is the main road through Alamo Chapter and the main school bus route.

**Future Development and Plans:** 

NUM	Project Year	Project Name	Chapter	MP	Transportation Improvement Needs				
E1	2011	Senior Center	Alamo	25.6	Turning lanes, street lights, sidewalks				
E2	2013	Fire Station	Alamo	25.6	Turning lanes, street lights, sidewalks				
E3	2013	Multi-Purpose Center	Alamo	25.6	Turning lanes, street lights, sidewalks				

# **Transportation Issues:**

 NM169 through Alamo is a winding road with some sharp curves. This road condition becomes challenging and dangerous at night. Traffic accidents occurred mostly between MP 24 – MP 36/End of NM169. 50% of the accidents occurred after sundown.

#### Recommendations:

- Short Term Plans:
  - Use highly reflective road paint/markers from MP 19 to MP 36 and reduce speed to 50 MPH from MP 24 to MP 30.
  - Address transportation needs for future developments above.

# 10. NM 197:

NM197 is the main road through Torreon Chapter and the main school bus route.

WILSON & COMPANY PURPLES A MACHICIES

# **Future Development and Plans:**

The town of Cuba is likely to expand residential development and cattle ranching along NM197.

#### **Transportation Issues:**

 Most traffic accidents occurred between MP 23 – MP 30. Safety issues include animals in ROW and 60% of traffic accident occurred after sundown.

#### Recommendations:

- Needs reflective paint/striping and reduce speed to 50 mph from MP 25-MP 30.
- · Maintain fences and regularly clean cattle guards.

# 11. NM 264:

**Future Development Plans:** 

NUM	Project Year	Project Name	Chapter	MP	Transportation Improvement Needs
		Trail of the Ancients Byway	Tse Bonito-Rock Springs	0-16	Signs, access mgmt at scenic stops

# **Transportation Issues:**

- Tse Bonito has numerous commercial developments along NM264. Lack of street lights at night makes it hard to see the road and business turnoffs.
- Lack of cross drainage on NM264 between Black Hat and Yah-Ta-Hey causes flooding during heavy rain and icy road condition in the winter.
- Pavement condition from MP 7 MP 14 is deteriorating, chipsealing no longer holds.

#### Recommendations:

- Short Term Plans:
  - Street lights from Arizona POE or AZ/NM state line to Hill Top School.
  - Pavement reconstruction and Improve roadway cross grading for better drainage between Black Hat and Yah-Ta-Hey (MP 7 MP 14).
  - Address transportation needs for future developments above.
- Long Term Plans:
  - Better roadway design with good cross drainage.

# 12. NM 371:

#### **Future Development Plans:**

	, _ u . u . u p					
NUM	Project Year	Project Name	Chapter	MP	Transportation Improvement Needs	
E70	2011	First Response	Thoreau	1.7	Access mgmt, street lights	
E71	2011	Fitness Center	Thoreau	1.7	Access mgmt, street lights	
	2010	Convenience store	Crownpoint	25.2	Access mgmt, street lights	
	Business & Community Cmplx		White Rock	49.0	Access mgmt, street lights	
		Trail of the Ancients Byway	Thoreau- Farmington	0-105	Signs, access mgmt at scenic stops	

# **Transportation Issues:**

- Pavement conditions are poor to fair throughout the entire route from Thoreau to Farmington.
- Crownpoint is a designated Navajo Primary Growth Center with increasing business and community development. Streets will become more congested. Highway safety will increasingly become an issue.
- Major intersections are safety concerns and should have street lighting.

WILSON & COMPANY OF AND OF AND

#### Recommendations:

- Short Term Plans:
  - Pavement improvement where condition is severe.
  - Accelerate and decelerate lanes at Becenti NHA housing project entrance.
  - Accelerate and decelerate lanes at Whiterock Chapter access road
  - Accelerate and decelerate lanes at Lake Valley Chapter access road
  - Accelerate and decelerate lanes at Smith Lake Chapter access road and N49.
  - Address transportation needs for future developments above.
- Long Term Plans:
  - Roadway widening to five lanes to accommodate future development in Crownpoint.
  - Long-term pavement management is recommended.

# 13. NM 400:

NM400 is an access and school bus route to Fort Wingate Elementary and High Schools. It is also an access road from I-40 to the Cibola National Forest and recreation area. It connects to County Road 50, which extends from Ramah Navajo Chapter and Zuni Reservation.

# **Future Development and Plans:**

We have seen more and more use by bicyclists to the Cibola National Forest and recreation area.

# **Transportation Issues:**

 Roadway width is narrow with 0-2 foot shoulders. Pavement condition is moderate with water damage and rough/poor from MP 5.6 – MP 10.6.

#### Recommendations:

- Short Term Plans:
  - Pavement reconstruction from MP 5.6 MP 10.6.
- Long Term Plans:
  - MP 2.4 MP 3.4: Roadway widening to add turning lanes and sidewalks from High School to housing development.
  - MP 0 MP 10.6: Shoulder widening to Cibola National Forest recreation areas to accommodate bicycle traffic to park.

# 14. NM 509:

## **Future Development and Plans:**

None

# **Transportation Issues:**

Nighttime visibility issues at NM509/N9

# **Recommendations:**

Intersection light is needed to increase safety at night.

# 15. NM 566:

## **Future Development and Plans:**

- The Fire Rock Casino will recreate a need for more housing developments along NM566.
- Proposed convenience store at NM118/NM566 intersection.

# **Transportation Issues:**

- None, currently road is in good condition. However, pavement condition is moderate from MP 6.5 to end of road at the uranium mine entrance.
- Traffic accidents occurred mostly between MP 4 MP 9.5, three occurred at the NM566/N11
  Junction. Speeding and driver inattention are the causes of accidents. 50% of the traffic accidents
  occurred after dark.



#### Recommendations:

- Short Term Plans:
  - Warning sign and reduced speed are needed for the NM566/N118 intersection.
  - Street light and access management at NM118/NM566 intersection
- Long Term Plans:
  - MP 0 MP 0.7: Roadway widening to accommodate turning lanes to housing developments.

# 16. NM 597:

## **Future Development and Plans:**

NM597 is the access road to Four Corners Monument

# **Transportation Issues:**

None

## **Recommendations:**

None

# 17. NM 602:

# **Future Development and Plans:**

• Current development particularly at the gas station near MP 17 creates frequent traffic from the gas station to Breadsprings Road (N7062) on a steep slope.

# **Transportation Issues:**

 Most traffic accidents on NM602 occurred between MP 15 (N7046 Junction, Jones Ranch road) and MP 18 (N7062 Junction, Breadsprings access) and they happened after dark.

#### Recommendations:

- Short Term Plans:
  - Install a Chevron sign for end of T-intersection on NM602 at the NM602/N7062.
  - Lights at the NM602/N7046 and NM602/N7062 Junctions.

# **Long Term Plans:**

Roadway widening to add turning lanes at the NM602/N7046 and NM602/N7062 Junctions.

# **NEW MEXICO HIGHWAY NEEDS 0-5 YEAR PRIORITY**

NM	Priority	Route	Project Mileposts and Improvement Needs	ADT	Pavement	Funding Source
Dist.		No.			Condition	
6	1	US491	MP 17.5-MP 47.3 (NM134 Jct): Widening to 4-lane.	5749-	Poor-	08-10 GRIP
				9693	Moderate	09 Econ Stimulus
5	2	US64	MP 20-MP 21.9:Reduce speed limit to 45 mph.	4672-	Moderate	Submitted PIF appl.
				23115		Feb.2009
6	3	NM371	MP 1.4-MP 27.9: Pavement Reconstruction or	4192	Poor	Submitted PIF appl.
			Rehab			Feb.2009
6	4	NM602	NM602/N7062 Jct: Install chevron to mark end of T-	8052	Good	
			intersection.			
6	5	NM122	MP 9-MP 19: Pavement Reconstruction	1833	Poor	
5	6	US491	MP 47.3-MP 84.7: Widen to 4- Lane	3808-	Poor-	08-10 GRIP
				4471	Moderate	09 Econ Stimulus
5	7	US64	MP 20-MP 21.9:Install street lights and sidewalks	4672-	Moderate	
			_	23115		
6	8	NM264	MP 0-MP 0.6: Install street lights	10751	Good	
6	9	NM118	MP 25.8-MP 29.5 (NM566 Jct): Widening &	5356	Poor	
			Reconstruction.			
5	10	NM134	MP 0- MP 0.5: Widening to 3-lane	1553	Moderate	
6	11	NM400	MP 5.6-MP 10.6: Pavement reconstruction	1380	Poor	
6	12	I-40	I-40 Interchange to provide access to Fire Rock	>24000	Moderate	
			Casino and Red Rock State Park			

# **NEW MEXICO HIGHWAY NEEDS 5-10 YEAR PRIORITY**

NM Dist.	Priority	Route No.	Project Mileposts and Improvement Needs	ADT	Pavement Condition	Funding Source
6	1	NM264	MP 7-MP 14: Pavement reconstruction w/ increased cross slope.	10751	Poor	
6	2	NM602	N7062 & N7046 Jcts: Intersection widening to add turning lanes and lights	8052	Good	
6	3	US550	US550/NM197 Jct: Traffic signal and street lights in Cuba.	8047	Good	
5	4	US491	US491/US64 SW&NE Jcts Shiprock: Redesign intersection layouts.	23115	Moderate	
6	5	NM566	NM566/N11 Jct: Warning sign and reduce speed.	4637	Moderate	
6	6	NM566	MP 0-MP 0.7: Roadway widening to add turning lanes	4637	Good	
6	7	NM197	MP 25-MP 30: Needs reflective paint/striping and reduce speed to 50 mph.	1507	Moderate	
6	8	NM400	MP 0-MP 10.6: Shoulder widening	1380	Moderate	
6	9	NM169	MP 19-MP 36: Needs reflective paint/striping MP 24-MP 30: Reduce speed to 50 mph.	661	Good	
6	10	NM371	MP 23.8-MP 25.6: Widening to 3-lane & Reconstruction.	3868	Poor	
6	11	NM400	MP 2.4-MP 3.4: Roadway widening to add turning lanes and sidewalks.	1380	Moderate	

# E. Utah State Highways

# 1. UT 162:

**Future Development and Plans:** 

		minorit arra r rarror			
NUM	Project Year	Project Name	Chapter	MP	Transportation Improvement Needs
N3	2013	Veteran Memorial Park	Aneth	22.3	Access management, street lights
N4	2013	Ball Park	Aneth	22.3	Access management, street lights
N5	2014	Warehouse	Aneth	22.5	Access management
N1	2011	Solid Waste facility	Aneth	22.6	Access management
		Trail of the Ancients Byway	Montezuma- Aneth	14.6- 32.0	Signs, access mgmt at scenic stops

# Recommendations

• Address transportation needs for future developments above.

# 2. US 163:

**Future Development Plans:** 

NUM	Project Year	Project Name		Chapter	MP	Transportation Improvement Needs
		Kayenta-Monument Valley S Byway	Scenic	Kayenta	0-20.0	Signs, access mgmt at scenic stops

# **Transportation Issues:**

- The proposed Monument Valley Gateway Welcome Center will have a positive impact by eliminating makeshift vendor stalls at the US163/N42 intersection.
- High tourist traffic to the Monument Valley Park, especially at the park turnoff, and overnight use of park camping area will require traffic lights and warning lights at the US 163/N42 intersection.
- Tourist traffic to the Monument Valley Park includes those who stop to take pictures. Tourists often pull over even if no space/shoulder is available.

# **Recommendations:**

- Short Term Plans:
  - Fencing and cattle guard maintenance from state line to Mexican Hat.
  - Address transportation needs for future developments above.



- Long Term Plans:
  - Pullouts for tourists for safe picture taking stops along US 163.

# 3. UT 262:

**Future Development and Plans:** 

NUM	Project Year	Project Name	Chapter	MP	Transportation Improvement Needs
N2	2011	011 Montezuma Shopping Ctr Clinic		22.5	Access management, street lights
		Trail of the Ancients Byway	Montezuma	0-22.6	Signs, access mgmt at scenic stops

## Recommendations

Address transportation needs for future development above.

The following list identifies UDOT related improvement projects identified in the UDOT STIP, including:

- US-191
  - Mile Post 12 to 21
  - Crack Repair
  - Concept Design in 2011
- SR-162
  - Over McElmo Creek
  - Design complete
- SR-162
  - Montezuma Creek to Aneth EIS
  - Record of Decision, July 2009
- 3 Bridge Preservation Projects in San Juan County
  - Preliminary Design
  - Montezuma Creek Sidewalk/Lighting Project
    - In Final Design
  - Halchita Bridge at Gypsum Wash
    - Environmental and Preliminary Design
- US-163 Halchita to Mexican Hat
  - Intersection and Lighting Improvements
  - Final Design
- Highway 162 in Aneth
  - Lighting and Add Center Turn Lane
  - Final Design
- Navajo N-35 Resurfacing Project
- Bus Route Preservation within Navajo Nation
  - N5063
  - San Juan County Road 442
  - San Juan County Road 444
  - San Juan County Road 479

# CHAPTER XII - COUNTY ROAD NEEDS

#### A. **COUNTY ROAD MILEAGE**

According to the 2008 road inventory, County roads make up 15.0% or 1,907.5 miles of all Navajo Indian Reservation Roads. The majority of Navajo Nation county-maintained IRR system roads are in New Mexico: 456.5 miles are in San Juan County: 366.4 miles in McKinley County: with 16.4 miles in Sandoval County. Arizona county-maintained IRR system roads include 636.8 miles in Apache County; 5.0 miles in Coconino County; and 20.6 miles in Navajo County. Utah's San Juan County maintains 405.8 miles of county roads. These county roads provide access to Navaio communities in the checkerboard areas in Eastern Agency and remote areas in Chinle, Shiprock, Western, Ft. Defiance, and NIIP Agencies. See Figure XII-1.

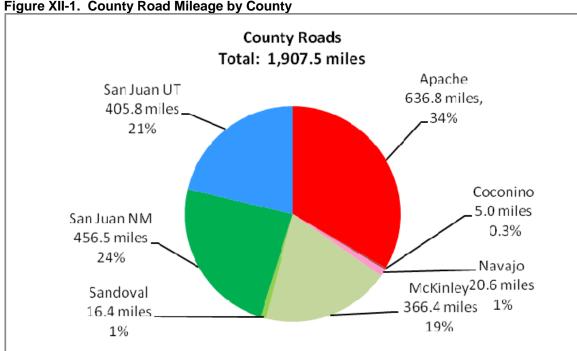


Figure XII-1. County Road Mileage by County

Source: 2008 Navajo Region Road Inventory

The majority of county roads on the Navajo Nation are unpaved. Of the total 1,907.5 miles of county roads, 79% or 1,511.1 miles are earth roads, 8% or 151.2 miles are primitive roads, 6% or 110.3 miles are graveled, and only 6% or 119.4 miles are paved, as summarized in Figure XII-2 and Table XII-1. The majority or 56% of county roads are Class 5 roads; 29% are Class 4 roads and 0.13% are Class 6 roads (Figure XII-3).







Figure XII-2. County Road Mileage by Surface Type

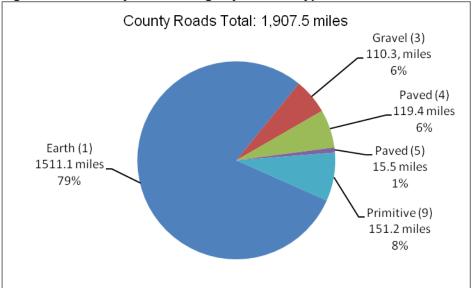
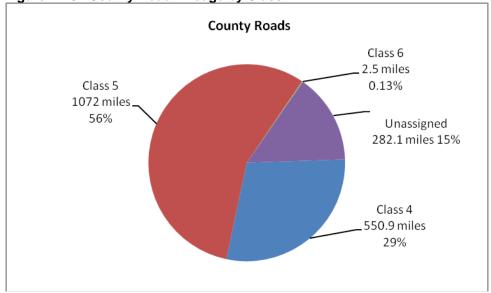


Table XII-1. County Roads by Surface Type (in miles)

Agency	Apache	Coconino	Navajo	McKinley	Sandoval	San Juan NM	San Juan UT	Surface Type Total
Earth (1)	617.9	0.0	0.0	249.0	0.0	263.2	381.0	1511.1
Gravel (3)	0.0	0.0	0.0	32.1	0.0	64.6	13.6	110.3
Paved (4)	0.4	5	20.6	58.4	11.3	17.0	6.7	119.4
Paved (5)	0.0	0.0	0.0	7.6	0.0	7.9	0.0	15.5
Primitive (9)	18.5	0.0	0.0	19.3	5.1	103.8	4.5	151.2
County Total	636.8	5.0	20.6	366.4	16.4	456.5	405.8	1907.5

Figure XII-3. County Road Mileage by Class







# B. COUNTY ROAD IMPROVEMENT NEEDS

Of the total 1,907.5 miles of County roads, 1,620.4 miles of County Roads need surface improvement and roadway widening to safety meet the geometric design guidelines/IRR adequate standards by County as follows:

Table XII-2. Miles of County Roads with Geometric Design Deficiencies/Total 1,620.4 miles

<u>i abie</u>	able XII-2. Miles of County Roads with Geometric Design Deficiencies/10tal 1,620.4 miles							
			Apache	Navajo	McKinley	Sandoval	San Juan NM	San Juan UT
ADS	CLASS	FADT						
10		>250						
10		50-250						
11	4-Rural	>250	7.8	10.3	95.1	11.3	49.4	5.3
11	Major	50-250	87.3	10.3	18.7		30	220.4
11	Collector	<50						
12		>250						
12		50-250						
13		>400			3.8		3.6	
13		50-400			198.1		224.2	
14	5-Rural	>400	13.1					
14	Local	50-400	528.6			5.1		98
15		>400						
15		50-400						
			636.8	20.6	315.7	16.4	307.2	323.7
	Grand Total:							1620.4

Table XII-3 shows total cost to bring County Roads to the Geometric Design Standards, \$1.4 billion.

Table XII-3. Cost to improve County Roads with Geometric Design Deficiencies

ADS	CLASS	FADT	Apache	Navajo	McKinley	Sandoval	San Juan NM	San Juan UT
10		>250						
10		50-250						
11	4-Rural	>250	\$ 13,017.64	\$17,924.25	\$ 73,889.32	\$5,025.68	\$ 46,318.37	\$ 889.08
11	Major	50-250	\$ 125,739.15	\$13,743.40	\$ 8,085.52		\$ 19,053.06	\$ 11,471.82
11	Collector	<50						
12		>250						
12		50-250						
13		>400			\$ 2,133.51		\$ 2,021.22	
13		50-400			\$109,238.86		\$ 76,539.28	
14	5-Rural	>400	\$ 27,230.31					
14	Local	50-400	\$ 865,378.30			\$2,074.05		\$ 6,574.99
15		>400						
15		50-400						
			\$1,031,365.40	\$31,667.64	\$193,347.20	\$7,099.72	\$143,931.93	\$ 18,935.89
						Grand Total:	:	\$1,426,347.79





# 1. Safety Needs:

Of the total 11,273 traffic crashes that occurred between 1999-2007, 3.7% or 415 accidents occurred on county roads. 30.2% of these accidents occurred in McKinley, 29% in San Juan, UT; 25.3% in San Juan, NM; 13.6% in Apache, 0.6% each in Navajo, Sandoval, and Socorro Counties.

Of the crashes that occurred on County roads, 23.1% of the accidents were caused by speeding; 17.6% by DUI; 16.6% by driver's inattention; 6.7% by animal on roads; 6.5% by other improper driving; 6.0% by road defect; 2.4% by drove left of centerline; 1.7% each by failed to yield right of way, following too close, and object on road; 1.2% by unsafe lane change, 1.0% by pedestrian error; and less than 1% each by improper turn, improper backing, under influence of drug, defective tires, and other mechanical defects.

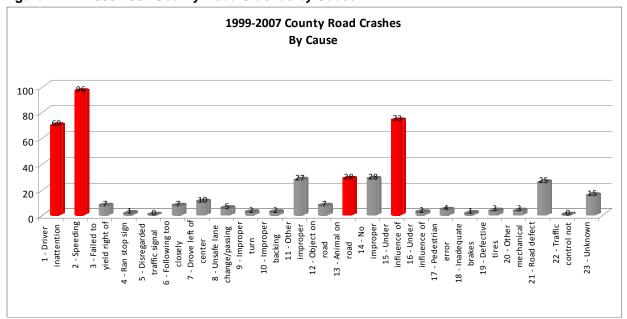


Figure XII-4. 1999-2007 County Road Crashes by Cause

The 415 crashes that occurred on County roads resulted in 264 property damage only crashes, 136 injury crashes, and 15 fatal crashes. Of the injury crashes, there were 93 one-person injury crashes, 27 two-person injuries, and 16 crashes where more than 2 persons were injured.

Majority of the accidents or 370 accidents happened during clear weather, 16 rainy, 18 snowy, and 6 during windy conditions.

**Fatal Crashes:** Of the total 415 crashes that have occurred between 1999 and 2007, 15 were fatal, of which 4 accidents were caused by DUI, 3 were due to driver inattention; 2 were caused by speeding; 2 were due to pedestrian error; and one each for failure to yield right or way, other improper driving, driving under the influence of drugs, and unknown circumstance.

**Crashes By Road Conditions:** 283 accidents happened on dry roads; 50 on loose sand; 39 on snow packed; 20 on wet; 6 on roads with potholes and 4 accidents happened at curve on roads.

**Recommendations:** Because of the low volume characteristic of county roads [Due to a lack of traffic volume data (ADT) on county roads (except for CR6675), accident rate for county roads cannot be computed], even roads with low number of accidents may present a serious safety issue. Planning for county road improvements therefore should pay attention to safety issue of accident clusters.







# CHAPTER XIII - TRIBAL ROAD NEEDS

# A. TRIBAL ROAD MILEAGE

In 2008 the Navajo Division of Transportation inventoried 2,895.7 miles of public roads and added them to its total IRR system under the Tribal Road category. For the purpose of addressing the transportation needs of these Tribal Roads, the 2009 Navajo Nation Long Range Transportation Plan thus used the 2008 road inventory data to analyze the Tribal Roads' transportation needs. Of the total 12,772 overall mileage of the Navajo Nation IRR system in 2008, tribal roads make up 22.6% or 2,895.7 miles. The tribal roads consist mostly of minor public roads ranging from those serving tribal government facilities, housing, communities and commercial areas to rural collector and local roads. Figure XII-1 shows that the tribal roadways are distributed among the agencies: 1036.0 miles in Fort Defiance Agency, 731.5 miles in Western Agency, 558.3 miles in Shiprock Agency, 372.6 miles in Chinle Agency, and 197.3 miles in Eastern Agency.

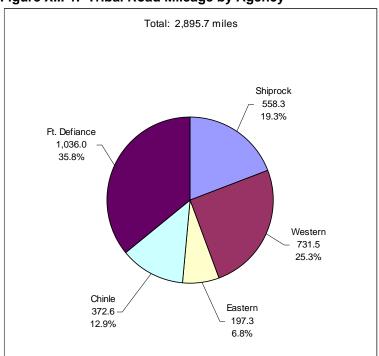


Figure XIII-1. Tribal Road Mileage by Agency

Source: 2008 Navajo Region Road Inventory

The majority of tribal roads on the Navajo Nation are unpaved. Of the total 2,895.7 miles of tribal roads, 96.7% or 2801.1 miles are earthen roads, 2.7% or 78.6 miles are paved roads, 0.4% or 11.6 miles are gravel roadways, and 0.2% or 4.4 miles are primitive roads, as summarized in Figure XIII-2 and Table XIII-1.







Total: 2,895.7 miles

Gravel
11.6
0.4%
Paved
78.6
2.7%
Primitive
4.4
0.2%

Figure XIII-2. Tribal Road Mileage by Surface Type

Source: 2008 Navajo Region Road Inventory

Table XIII-1. Tribal Roads by Surface Type (in miles)

Agency	Earth (1)	Gravel (3)	Paved (4, 5, & 6)	Primitive (9)	Total
Shiprock	551.1	0.0	7.2	0.0	558.3
Western	698.7	0.0	32.8	0.0	731.5
Eastern	191.6	0.0	1.3	4.4	197.3
Chinle	350.4	0.8	21.4	0.0	372.6
Ft. Defiance	1,009.3	10.8	15.9	0.0	1,036.0
NIIP	0.0	0.0	0.0	0.0	0.0
New Lands	0.0	0.0	0.0	0.0	0.0
Total	2,801.1	11.6	78.6	4.4	2,895.7

Figure XIII-3 illustrates that the Navajo Nation Tribal Roads consists of 2.9 miles of Class 6 (City Minor Arterial) and 58.3 miles of Class 3 (City Local) roads serving Navajo population centers, community and residential areas with 24.5 miles of Class 4 (Rural Major Collector) and the majority, 2,803.8 miles of Class 5 (Rural Local) roads serving the rural areas. See Figure XIII-3.









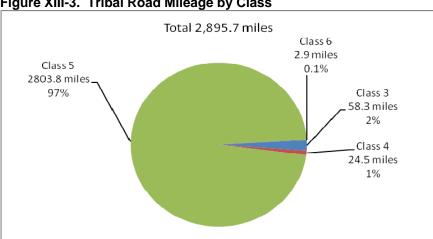


Figure XIII-3. Tribal Road Mileage by Class

Source: 2008 Navajo Region Road Inventory

#### B. TRIBAL ROAD IMPROVEMENT NEEDS

Based on the geometric design guidelines/IRR adequate standards, 2,831.0 miles of Tribal Roads need improvements by class as follows:

Table XIII-2. Miles of Tribal Roads with Geometric Deficiencies/ Total: 2,831.0 miles

ADS	CLASS	FADT	Miles of Roads Needing Only Surface Imp	Miles of Roads Needing Only Roadway Widening	Miles of Roads Needing Surface Imp & Roadway Widening	Sub-Total	Total By Class
10		>250					
10		50-250					
11	A Down Main	>250					
11	4-Rural Major Collector	50-250		0.2	12.2	12.4	24.5
11		<50					
12	1	>250			12.1	12.1	
12		50-250					
13		>400					
13		50-400					
14	5-Rural Local	>400			11.2	11.2	2803.8
14	3 Rurai Eocai	50-400			2792.6	2792.6	2000.0
15		>400					
15		50-400					
16	6-City Minor	N/A	2.7			2.7	2.7
17		N/A					0.0
18		N/A					0.0
						Grand Total:	2831.0







Based on the BIA pavement rating standards, a total of 53.3 miles of Class 3 Tribal Roads need improvements (Table XIII-3).

Table XIII-3. Miles of Tribal Roads with Pavement Deficiencies/ Total: 53.3 miles

Road Class	PCI<40 and RB<5, Need Reconstruction for Geometric Design and Pavement Deterioration	RB<5, Need Reconstruction for Geometric Design	PCI<40, Need Reconstruction for Pavement Deterioration	PCI=40-50 and RB>=5, Need Rehabilitation	PCI=51-69 and RB>=5, Need Minor Rehabilitation	PCI>=70 and RB>=5, Need Maintenance Only
3	46.6	3.7	2.4			0.6
Total	46.6	3.7	2.4			0.6
Percent	87.4%	6.9%	4.5%	0.0%	0.0%	1.1%

**Table XIII-4. Total Tribal Road Transportation Needs** 

Road Class	Total Miles Needing Improvements	Cost in \$1000
3	53.3	\$56,019.06
4	24.5	\$16,927.63
5	2,803.8	\$2,832,249.04
6	2.7	\$3,807.82
Total	2,884.3	\$2,909,003.55

# Safety Needs

Of the total 11,273 traffic crashes that occurred between 1999 and 2007, only 17 accidents occurred on tribal roads.

Of the crashes that occurred on tribal roads, 35.3% of the accidents were caused by driving under the influence of alcohol; 17.6 % by driver's inattention; 11.7% by speeding; 11.7% had no improper driving; and 5.9% each for following too close, unsafe lane change, inadequate brakes, and other improper driving.

The 17 crashes that occurred on tribal roads resulted in 9 property damage only crashes, 7 injury crashes, and one fatal crash. The fatal crash resulted from a driver driving under the influence of alcohol during snowy weather.

The majority of the accidents or 10 accidents happened during clear weather, 4 during cloudy, 2 during snowy, and one during rainy conditions. Six accidents happened on dry roads; 3 on loose sand; 2 on snow packed; 2 on wet; 2 on roads with potholes; 1 with changing road width, and 1 on a road under construction.









	at are your priorities from high (8) to low	
	Road Improvements	Bridge Improvements
	Transit Improvements	Safety Improvements
	Airport Improvements	Bicycle paths and sidewalk
	Road maintenance	Other
Roa	d Improvement: What are your priorities	from high (5) to low (1)?
	To pave more dirt or gravel roads	
	To improve existing paved roads (i.e., r	ehab/chip seal, widen, etc.)
	To grade and improve drainage on dirt/	gravel roads
	To rehabilitate or replace bridges	
	Other	
Roa	d Maintenance: What are your priorities	from high (6) to low (1)?
	Snow removal	
	Pothole repair of existing paved roads	
	Blading of dirt roads	
	Maintenance during emergencies	
	Bridge maintenance	
	Other	
Safe	ety Improvement: What are your prioritie	s from high (8) to low (1)?
	Install sidewalks and bicycle paths	
	Install traffic signals	Install cross walks
	Install guard rails	Roadway striping
	Roadway signage	Other
	at should be the transportation/road imp	
VVII	Improve travel safety	overnent goals from high (b) to low (
	Support economic development	
	Connection to transit, airports, etc	
	Connections for freight access/movement	ant
	Access to recreation	FIII.
	Other	
	at are your major development (economi (1)?	c, transportation) concerns from high
• •	Cultural Preservation	
	Increased pollution of all types (noise, a	air)
	Safety	
	Privacy	
	Others	





1.	What are your concerns regarding road and bridge improvements and where are they?
	Boute N-27- The completion of survey anothers.
	only one Budge coming into Chiale, and were access,
	At 191- have more monagement planning - nearly conjected,
2.	What are your priorities from high (8) to low (1)?
	Road Improvements  Bridge Improvements
	Transit Improvements  Safety Improvements
	Airport Improvements Bicycle paths and sidewalk
	Road maintenance 8 Other More politicions beens
3.	Road Improvement: What are your priorities from high (5) to low (1)?
	To pave more dirt or gravel roads
	To improve existing paved roads (i.e., rehab/chip seal, widen, etc.)
	To grade and improve drainage on dirt/gravel roads
	5 Other Marse The 15th d Committees phase responsible one mut say we don't have justidation on that road.  Road Maintenance: What are your priorities from high (6) to low (1)?
	other with home midside won on that road.
4.	Road Maintenance: What are your priorities from high (6) to low (1)?
	Snow removal
	Pothole repair of existing paved roads
	Blading of dirt roads
	Maintenance during emergencies
	Waintenance during emergencies  6 Bridge maintenance  6 Other The roads that are in due need - don't usually get maintenance  6 Other The roads that are in due need - don't usually get maintenance  6 Decause 1) care of most - 2) not in their area 3 no one segment to the segment of the segme
	because 1) equip prob - 2) not in Their alla 3 no one segn of a safety Improvement: What are you'r priorities from high (8) to low (1)?
5.	Safety Improvement: What are your priorities from high (8) to low (1)?
	8 Roadway signage 8 Other of the se are notion place every
6.	What should be the transportation/road improvement goals from high (6) to low (1)?
	Improve travel safety
	Support economic development
	Connection to transit, airports, etc
	Connections for freight access/movement
	Access to recreation
	Other all the above - heered all the above:
7.	Connections for freight access/movement  Access to recreation  Other All The above - theory attraction to Congo do Chelly is  Congo of the Then That we do need all the above:  What are your major development (economic, transportation) concerns from high (5) to low (1)?  Cultural Preservation
	Cultural Preservation
	Increased pollution of all types (noise, air)
	Safety Privacy
	Privacy  5 Others-hove one grocey store, doesn't do pested for our people - no shopping mall, we trovel 2-3 hours for other basic needs:
	no shopping mall, we trovel 2-3 hours for other baser
	needs.

WILSON &COMPANY



1.	What are your concerns regarding road and bridge improvements and where are they?
	Implement Road projects that
	are project ready, and use tunds
	experiencely Reep Politic out of it.
2.	What are your priorities from high (8) to low (1)?
	5 Road Improvements 5 Bridge Improvements
	Transit Improvements  S Safety Improvements
	Airport Improvements Bicycle paths and sidewalk Other Road maintenance Other Road S
_	
3.	Road Improvement: What are your priorities from high (5) to low (1)?
	To pave more dirt or gravel roads
	To improve existing paved roads (i.e., rehab/chip seal, widen, etc.)
	To grade and improve drainage on dirt/gravel roads
	To rehabilitate or replace bridges
	Other Impac Rd3
4.	Road Maintenance: What are your priorities from high (6) to low (1)?
	Snow removal
	Pothole repair of existing paved roads
	Blading of dirt roads
	Maintenance during emergencies
	Bridge maintenance
	10 Other parkate touches
5.	Safety Improvement: What are your priorities from high (8) to low (1)?
	Install sidewalks and bicycle pathsIInstall street lights
	Install traffic signals Install cross walks
	3 Install guard rails 1 Roadway striping
	Roadway signage Other coad S
_	
6.	What should be the transportation/road improvement goals from high (6) to low (1)?
	l Improve travel safety
	Connections for freight access/movement
	Access to recreation
	10 Other Park Out Toads
7.	What are your major development (economic, transportation) concerns from high (5) to
	low (1)?
	S Cultural Preservation
	Increased pollution of all types (noise, air)Safety
	Salety 2 Privacy
	Others



Concerns Navajo Rotte 27, Local School Districts, Aging Programs, Emergency, and public satety sufuse or are not able to assist commends member due to unsafe conditions. (Road) The has been incidents where people have stack in the mad in the winds storms. They've were not ar ruted assistance for help due to the road Condition. Everyny units are not able to respond as well as public satety to incidents. This is detrimented to our Elders and youth who are our biggest concerns. This Projects has been on the back burners for alleast 30 yrs. This is a Prior thy tor the Communities at Chine, Flatrock and Nazlini. We were informed by BIA road department and TCDC that N-27 is a prorty Froject that will be completed. We want it to be computed Los Are Satisty and Needs of our communities? Place It back on the priorety

heting for FY 2010 !!!



1.	What are your concerns regarding road and bridge improvements and where are they?
	Completing the Wit was project
	15 meathy needed and will
	penefit communities, and all resources
	are in Chrise Where people have to travel to
2.	What are your priorities from high (8) to low (1)? meet their needs.
	Road Improvements Bridge Improvements
	Transit Improvements  8 Safety Improvements
	Airport Improvements  Bicycle paths and sidewalk needs to be
3.	Road Improvement: What are your priorities from high (5) to low (1)?
	To pave more dirt or gravel roads  To improve existing paved roads (i.e., rehab/chip seal, widen, etc.)  Road signs are not visible.
	To improve existing paved roads (i.e., rehab/chip seal, widen, etc.)
	To grade and improve drainage on dirt/gravel roads
	To rehabilitate or replace bridges  The marking
	S Other
4.	Road Maintenance: What are your priorities from high (6) to low (1)?
	Snow removal
	Pothole repair of existing paved roads
	_6 Blading of dirt roads
	Maintenance during emergencies
	Bridge maintenance
	Other the sayety of
5.	Safety Improvement: What are your priorities from high (8) to low (1)?
	Install sidewalks and bicycle paths Install street lights busses, ambulance
	Install traffic signals — Install cross walks
	Thotal guard rails Troudway striping
	Roadway signage Other
6.	What should be the transportation/road improvement goals from high (6) to low (1)?
	Connections for freight access/movement Access to recreation
	Other
7	
7.	What are your major development (economic, transportation) concerns from high (5) to low (1)?
	Cultural Preservation
	Increased pollution of all types (noise, air)
	Safety Privacy
	Others

# NAVAJO D.O.T.

1,	Safety and future expansion
2	What are your priorities from high (8) to low (1)?
2.	What are your priorities from high (8) to low (1)?   Table Road Improvements Safety Improvements   Airport Improvements Bicycle paths and sidewalk   Road maintenance Other
3.	Road Improvement: What are your priorities from high (5) to low (1)?
4.	Road Maintenance: What are your priorities from high (6) to low (1)?  Snow removal Pothole repair of existing paved roads Blading of dirt roads Maintenance during emergencies Bridge maintenance Other
5.	Safety Improvement: What are your priorities from high (8) to low (1)?    Solid   Install sidewalks and bicycle paths   Solid   Install street lights
6.	What should be the transportation/road improvement goals from high (6) to low (1)?    Improve travel safety   Support economic development   Connection to transit, airports, etc   Connections for freight access/movement   Access to recreation   Other
7.	What are your major development (economic, transportation) concerns from high (5) to low (1)?





	02	1 VENERSE	SIELL	
	-	priorities from high (	8) to low (1)?	
6		mprovements		Bridge Improvements
-4		Improvements	_8_	_ Safety Improvements
		Improvements	_2_	Bicycle paths and sidewalk
	Road n	naintenance		_ Other
Road	Improve	ment: What are your <sub>l</sub>	oriorities from h	igh (5) to low (1)?
5	To pave	e more dirt or gravel ro	ads	
3	To imp	rove existing paved roa	ds (i.e., rehab/ch	nip seal, widen, etc.)
4	To grad	le and improve drainag	je on dirt/gravel r	roads
2	To reha	abilitate or replace bridg	ges	
-/	Other			
Road	Maintena	ince: What are your p	riorities from hi	ah (6) to low (1)?
/	Snow re			3 (5) 55 75 1. (17)
-6		repair of existing pave	nd roads	
-7	_	of dirt roads	, a 108a3	
4		nance during emergend	ries	
3		majntenance	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
6	Other	Lince repaire	cuttle gua	rds
Safet		ement: What are your		
1		idewalks and bicycle p	Lou	Install street lights
7	_	raffic signals	4	Install cross walks
N		uard rails	5	
-7		ay signage		_ Roadway striping _ Otherเหน่นระเทยน
What	should b	e the transportation/r	oad improveme	nt goals from high (6) to low (1)?
_6	Improve	travel safety		
4	_ Support	economic developme	nt	
	_ Connec	tion to transit, airports,	etc	
3	_ Connec	tions for freight access	/movement	
	_ Access	to recreation	1 11.1	
9	_ Other	to recreation Mighwill Suffly el	y rement	
What				portation) concerns from high (5) t
low (	,			
<u> </u>		Preservation	( t t-)	
15	Increase Safety	ed pollution of all types	(noise, air)	
	_ Privacy			



I Many Forms Chapter Community in a commutter community that committee to Chinte, I timer a day there is an increase in traffic volume, here are some of the safety issues it has encountered;

a. Poor maintenance of fince and cattle quarda result i'm alot of jutation and loss of property to livestock awners. The state has advised through ADOT & NDOT that

they corral their lives tock.

b. installation of gater also has resulted in Iwestock VI. to the roads most of the fine do not own huestock and neglect to close theses gater and are never given a citation for the violation, instead the Twestock noner who consented are blamed for approblem to, ADOT weeds to stop installing gates.

C. The Many Farm Chapter has repeatethy requestioned a quaintenance schedule and elaspection schedulis on State of BIA vouters,

d. The Many Ferras Public School evossing and school rove weeds extra attention. The driver often ignore the flashing lights, including stuff and busen from

the school itself.

8086 1. 8084 C507

a The proposed 8086/8084 road improvement in very important the Community of Many Farms and Surreunding communities. currently college students from Many Farms, Dough Rale, Child dinbite and Kayenta ofen travel through Chince or Lukuchukai Az. to attend classes, therefore this route is our priority.

b, There are alot of homesitur along 8084, and exergence response is slow due to the unimproved road. there are several wastes that make it jurpassable during harsh weather conditions there have been several vehicles that have washed away during floods.

C. approx 7 busses travel through this route everyday

-3 buses from the public School
-1 bus from Muny Furns High School
-1 bus from Chink Bourding School
-2 busses from Navajo Headsturt.

d. 8084/8084 is project ready.

3. Highway 191 15 heavily traveled by fractor trailers at a high rate of speed dwring late hours and often leave annials dying along troadsides and not removed causing botalism to live stack and by



1.	What are your concerns regarding road and bridge improvements and where are they?  In Many Funn Chapter has a project  8084 to be pure and done.
2.	What are your priorities from high (8) to low (1)?
	Transit Improvements Safety Improvements
	Airport Improvements  Bicycle paths and sidewalk
	Road maintenance Q Other Pave 8084
3.	Road Improvement: What are your priorities from high (5) to low (1)?
	To improve existing paved roads (i.e., rehab/chip seal, widen, etc.)
	To rehabilitate or replace bridges
	Other Pane 8087
4.	Road Maintenance: What are your priorities from high (6) to low (1)?
	Snow removal .
	Pothole repair of existing paved roads
	Blading of dirt roads
	Maintenance during emergencies
	Bridge maintenance
	Other
5.	Safety Improvement: What are your priorities from high (8) to low (1)?
	Install sidewalks and bicycle paths Install street lights
	Install traffic signals Install cross walks
	Install guard rails Roadway striping
	Roadway signage Other
6.	What should be the transportation/road improvement goals from high (6) to low (1)?
	Improve travel safety
	Support economic development
	Connection to transit, airports, etc
	Connections for freight access/movement
	Access to recreation
	Other
7.	What are your major development (economic, transportation) concerns from high (5) to
	low (1)?
	Cultural Preservation Increased pollution of all types (noise, air)
	Safety
	Calcty Privacy
	Others





What ar	e your concerns regarding road		improvements and where are they?						
-									
What ar	e your priorities from high (8) to	low (1)?							
3	Road Improvements	ſ	_ Bridge Improvements						
	Transit Improvements		Safety Improvements						
	Airport Improvements		_ Bicycle paths and sidewalk						
	Road maintenance		Other						
Road Im	provement: What are your prior	rities from hi	gh (5) to low (1)?						
3 .	To pave more dirt or gravel roads								
	To improve existing paved roads (	i.e., rehab/chi	ip seal, widen, etc.)						
	To grade and improve drainage or								
	To rehabilitate or replace bridges	•							
	Other								
Road Ma	aintenance: What are your prior	ities from hig	gh (6) to low (1)?						
4/ 5	Snow removal								
	Pothole repair of existing paved ro	ads							
	Blading of dirt roads								
	Maintenance during emergencies								
	Bridge maintenance								
	Other								
Safety Ir	nprovement: What are your pric	orities from h	igh (8) to low (1)?						
-	nstall sidewalks and bicycle paths	/	Install street lights						
	nstall traffic signals	1	Install cross walks						
	nstall guard rails	2	_ Roadway striping						
400	Roadway signage		Other						
What sh	ould be the transportation/road	improvemen	nt goals from high (6) to low (1)?						
	mprove travel safety								
	Support economic development								
	• • • • • • • • • • • • • • • • • • • •								
	Connection to transit, airports, etc Connections for freight access/movement								
_	Access to recreation	vement							
	Other								
What are low (1)?	e your major development (ecor	nomic, transp	portation) concerns from high (5) to						
, ,	Cultural Preservation								
	ncreased pollution of all types (no	ise, air)							
	Safety	. ,							
	Privacy								
(	Others		•						





1.	What are your concerns regarding road and bridge improvements and where are they?  Navajo Nation pased Noads heeds to be pased Waiting t
	Many Farms 808 4 + Chinle N27
2.	What are your priorities from high (8) to low (1)?  Road Improvements  Transit Improvements  Safety Improvements  Bicycle paths and sidewalk  Road maintenance  Road Improvement: What are your priorities from high (5) to low (1)?
3.	Road Improvement: What are your priorities from high (5) to low (1)?  5 To pave more dirt or gravel roads  7 To improve existing paved roads (i.e., rehab/chip seal, widen, etc.)  To grade and improve drainage on dirt/gravel roads  To rehabilitate or replace bridges  Other
4.	Road Maintenance: What are your priorities from high (6) to low (1)?  Snow removal Pothole repair of existing paved roads Blading of dirt roads Maintenance during emergencies Bridge maintenance Other. Austral in Roa
5.	Safety Improvement: What are your priorities from high (8) to low (1)?  Install sidewalks and bicycle paths Install traffic signals Install cross walks Install guard rails Roadway signage Other Amends in Row
6.	What should be the transportation/road improvement goals from high (6) to low (1)?  Improve travel safety Support economic development Connection to transit, airports, etc Connections for freight access/movement Access to recreation Other
7.	What are your major development (economic, transportation) concerns from high (5) to low (1)?  Cultural Preservation Increased pollution of all types (noise, air) Safety Privacy Others  Comstruct + Plane N 8084, N 8084, C 567

magnesium Chloride souds Continue to stricke for us to pave all roads in Navajoland especially Chinle & Many Farms. becommend for updates and meet regularly to better Improve our roads of address concern. Maybe ever a Task Agency Roads Committee. N212 Residents have Suffered + continue to suffer too long - Make them / us hoppy by Paving N27.



1.	What are your concerns regarding road and bridge improvements and where are they?  N-12 from Round Rocks to Arvion
	State line-to I HO
	(N27) Nazili to Chinke - 18 molos
2.	What are your priorities from high (8) to low (1)?
	Road Improvements Bridge Improvements
	Transit Improvements Safety Improvements
	Airport Improvements Bicycle paths and sidewalk
	Road maintenance Other
3.	Road Improvement: What are your priorities from high (5) to low (1)?
	To pave more dirt or gravel roads
	To improve existing paved roads (i.e., rehab/chip seal, widen, etc.)
	To grade and improve drainage on dirt/gravel roads
	To rehabilitate or replace bridges
	Other
4.	Road Maintenance: What are your priorities from high (6) to low (1)?
	5 Snow removal
	Pothole repair of existing paved roads
	Blading of dirt roads
	Maintenance during emergencies
	3 Bridge maintenance
	Other
5.	Safety Improvement: What are your priorities from high (8) to low (1)?
	Install sidewalks and bicycle pathsInstall street lights
	Install guard rails Roadway striping
	Roadway signage Other
^	
6.	What should be the transportation/road improvement goals from high (6) to low (1)?
	Improve travel safety
	Support economic development
	Connection to transit, airports, etc
	Connections for freight access/movement
	Access to recreation
	Other
7.	What are your major development (economic, transportation) concerns from high (5) to low (1)?
	ُنُا Cultural Preservation
	Increased pollution of all types (noise, air)
	<u>į</u> ³ Safety
	Privacy Others
	Value





1.	What are your concerns regarding road and bridge improvements and where are they?
2.	What are your priorities from high (8) to low (1)?
	Road Improvements  Fig. 8 Airport Improvements  Road maintenance  Bridge Improvements  Safety Improvements  Bicycle paths and sidewalk  Other
3.	Road Improvement: What are your priorities from high (5) to low (1)?
	To pave more dirt or gravel roads To improve existing paved roads (i.e., rehab/chip seal, widen, etc.) To grade and improve drainage on dirt/gravel roads To rehabilitate or replace bridges Other
4.	Road Maintenance: What are your priorities from high (6) to low (1)?  Snow removal Pothole repair of existing paved roads Blading of dirt roads Maintenance during emergencies Bridge maintenance Other
5.	Safety Improvement: What are your priorities from high (8) to low (1)?  Install sidewalks and bicycle paths Install traffic signals Install guard rails Roadway signage Other
6.	What should be the transportation/road improvement goals from high (6) to low (1)?  Improve travel safety Support economic development Connection to transit, airports, etc Connections for freight access/movement Access to recreation Other
7.	What are your major development (economic, transportation) concerns from high (5) to low (1)?  Cultural Preservation Increased pollution of all types (noise, air) Safety Privacy Others





mas

What are your priorities from high (8)	to low (1)?	
Road Improvements	4	Bridge Improvements
Transit Improvements	<u>3</u>	Safety Improvements
Airport Improvements		Bicycle paths and sidewalk
Road maintenance		Other
Road Improvement: What are your pr	iorities from	high (5) to low (1)?
To pave more dirt or gravel road	ds	
To improve existing paved roads	s (i.e., rehab/d	chip seal, widen, etc.)
To grade and improve drainage	on dirt/gravel	roads
To rehabilitate or replace bridge	s	
/ Other PAVE N-27		
Road Maintenance: What are your pri	orities from h	nigh (6) to low (1)?
Snow removal		
Pothole repair of existing paved	roads	
/ Blading of dirt roads		
Maintenance during emergencie	es	
Bridge maintenance		
Other		
Safety Improvement: What are your p	riorities from	high (8) to low (1)?
Install sidewalks and bicycle pat		Install street lights
Install traffic signals		Install cross walks
Install guard rails		Roadway striping
Roadway signage		Other
What should be the transportation/roa	ad improvem	ent goals from high (6) to lov
/ Improve travel safety		g g (-,
Support economic development		
Connection to transit, airports, e		
Connections for freight access/n		
Access to recreation		
Other		
Nhat are your major development (ec ow (1)?	onomic, tran	sportation) concerns from hi
3307 1:11 7		



1.

## 2009 LONG RANGE TRANSPORTATION PLAN QUESTIONNAIRE

What are your concerns regarding road and bridge improvements and where are they?

	ME NERD N-27 VAVED	
	SOON AS POSSIBLE	
2.	What are your priorities from high (8) to low (1)?	
	Road Improvements Bridge Improvements	
	Transit Improvements Safety Improvements	
	Airport Improvements Bicycle paths and sidewalk	
	Road maintenance Other	
3.	Road Improvement: What are your priorities from high (5) to low (1)?	
	To pave more dirt or gravel roads	
	To improve existing paved roads (i.e., rehab/chip seal, widen, etc.)	
	To grade and improve drainage on dirt/gravel roads	
	To rehabilitate or replace bridges	
	Other	
4.	Road Maintenance: What are your priorities from high (6) to low (1)?	
	Snow removal	
	Pothole repair of existing paved roads	
	Blading of dirt roads	
	Maintenance during emergencies	
	Bridge maintenance	
	Other	
5.	Safety Improvement: What are your priorities from high (8) to low (1)?	
	Install sidewalks and bicycle paths Install street lights	
	Install traffic signals Install cross walks	
	Install guard rails Roadway striping	
	Roadway signage Other	
6.	What should be the transportation/road improvement goals from high (6) to low (1)?	
	Improve travel safety	
	Support economic development	
	Connection to transit, airports, etc	
	Connections for freight access/movement	
	Access to recreation	
	Other	
7.	What are your major development (economic, transportation) concerns from high (5) low (1)?	to
	Cultural Preservation	
	Increased pollution of all types (noise, air)	
	Safety Privacy	
	Others	





1.	What are your concerns regarding road and bridge improvements and where are they?  - Hishway 19 - Narrow (108)  - N8084 / W8086
2.	What are your priorities from high (8) to low (1)?
	Transit Improvements Safety Improvements
	Airport Improvements Bicycle paths and sidewalk
	S Road maintenance Other
3.	Road Improvement: What are your priorities from high (5) to low (1)?
	To improve existing paved roads (i.e., rehab/chip seal, widen, etc.)
	4 To grade and improve drainage on dirt/gravel roads
	To rehabilitate or replace bridges
	3 Other Inventory the voats (BIA, County + State) for 100
4.	To rehabilitate or replace bridges  Other Thy anting the road BIA, County + State From 100  Road Maintenance: What are your priorities from high (6) to low (1)?
7.	Snow removal
	Show removal Show removal Show removal
	Bridge maintenance
	/ Other
5.	Safety Improvement: What are your priorities from high (8) to low (1)?
	Install sidewalks and bicycle paths Install street lights
	Install traffic signals Install cross walks
	Install guard rails Roadway striping
	Roadway signage Other
6.	What should be the transportation/road improvement goals from high (6) to low (1)?
	Connections for freight access/movement
	Other
7.	What are your major development (economic, transportation) concerns from high (5) to low (1)?
	Cultural Preservation Increased pollution of all types (noise, air) Safety Privacy Others

Highway 191- reroute-
- needs resurfacing bus stop =
- Fets windy between Valley stree to many Forms - too many roachs to get on this harry in
- Jets windy between Valley stree to many Forms - too many roads to get on Highway: frontage roads - need children Das from house to the schools (over pass) - Blags are to alose to road (highway 191)  NX184:
N8084:
- Bridges - - Cul Verts-
- maintenance
- emergency maintenance during inchement weather and tims; rain, snow + mud, etc.
Renommanel: Conference.
-BIA, NOOT + ADOT
- Planny + 20ning
- Danning + Zoning - Chapter officials
- TOUC ammittee
- Develop @ tool to consider the printy of roads~

Meank you.
Olyboth J. Cefta,
With Wice
Wesiden



1.	Meed for pavement - Mavojo Route 37
2.	What are your priorities from high (8) to low (1)?
	Road Improvements  Transit Improvements  Airport Improvements  Road maintenance  Bridge Improvements  Safety Improvements  Bicycle paths and sidewalk  Other
3.	Road Improvement: What are your priorities from high (5) to low (1)?
	To pave more dirt or gravel roads  To improve existing paved roads (i.e., rehab/chip seal, widen, etc.)  To grade and improve drainage on dirt/gravel roads  To rehabilitate or replace bridges  Other
4.	Road Maintenance: What are your priorities from high (6) to low (1)?  Snow removal Pothole repair of existing paved roads Blading of dirt roads Maintenance during emergencies Bridge maintenance Other
5.	Safety Improvement: What are your priorities from high (8) to low (1)?  Install sidewalks and bicycle paths Install traffic signals Install guard rails Roadway signage Other.
6.	What should be the transportation/road improvement goals from high (6) to low (1)?
7.	What are your major development (economic, transportation) concerns from high (5) to low (1)?  Under Cultural Preservation Increased pollution of all types (noise, air) Safety Privacy Others



Mavajo Route 27 is lacking approximately 10 miles of Pavement.

During the winter months or inclement weather Our road is impassible, we are in an isolated area with no cell phone signal or land line phones available. Nazlin, hill is impossible to Climb with ice or sleet on it. There is 8016 off mite post 434 but is also impassible st flood waters fills our washes, plus the hill is unpaced + slippery when muddy which in turn is dangerous - 20 plus drop offs. We have no alternative but to use NR27 N to Chinle, Last winter we stipped of the road due to mud, we spent the night in the mud which turned into snow. Chinie wrecker service refuses to go on this road to assist stuck vehicles in fear of getting their wreckers stuck, Also the Police can only take you home to Chinle, they cannot pull you out or call for help-for you. This is a risk to all who drive that road - we clon't know if we will be a ble to get

home safely. Thank you Patralina Begery Pls not to mention we hicle damage. 1928) 674-9700 Flatrock, A>

Page 2 When the BIA grades our road they only get the dirt from the side with all the debris, dead animals + put it back onto road. This makes it very dusty and at times a visability is poor. This only lasts maybe 3 days and the pot holes are exposed again. Vehicle damesges are tremendous, tires are wore out, parts fall off, we fend to leave the parts alone, avoid running over them- so the owners can pick them up on their way back, Insurance claims are denied when bumpers fall Off or truck beds crack & eventually break apart & no longer will hold head lights, tail lights mirrors etc. and duct tape is getting expensive. Thank you for your time.

Pahalina Began

Page 3.

Gravel onto roads-we have exhausted request for gravel to be put on our roads-ne have been to 10 that it was illegal, (BIA Roads) we asked or crushed used as phalt-that also was denied-chemicals in asphalt.

Policties - we find that its not wheather your road is ready, clearences - but favortism. MECA construction is very slow - but are awarded those hids because of Manajo Preferences + low bidder- Could the next highest bidder be considered - Delays in MECA causes more funding to leave a road for nearly a year partly graded then return + do the same process again thus paying their labors, skilled drivers edc dout to do the double work.

# **Appendix A Returned Survey Questionnaires**

# **Appendix B Access Management Samples**

# **Appendix C Transportation Needs By Route**

# Ten Ways to Manage Roadway Access in Your Community





# Ten Ways to Manage Roadway Access in Your Community

Costly improvements are not always the solution to safety and congestion problems. Roads, like other resources, also need to be carefully managed. Corridor access management strategies extend the useful life of roads at little or no cost to taxpayers. Following are ten ways that you can make the most out of your transportation system.



# Lay the foundation for access management in your local comprehensive plan.

To assure that your roadways are managed properly, your comprehensive plan needs to address certain key issues. First, include goals, objectives, and policies related to access management in the plan. Tailor policy statements to advance the access management principles in this brochure. For example, a policy could be adopted promoting interconnection of adjacent developments along major roadways.

Second, make sure that your local transportation plan classifies roadways according to function and desired level of access control. This hierarchy of roadways is reinforced through roadway design and access standards in your land development code. For example, arterials require a much higher level of access control and different design standards than collectors or local streets. Some roadways require special attention because of their importance, the need for additional right-of-way, or due to significant access problems. These areas may be designated for special treatment in the comprehensive plan.

Third, provide for a greater variety of street types with varying design standards. Options could include access lanes, alleys, variations in on-street parking, and so on. This reduces development costs, promotes compact development, increases opportunities to interconnect streets, and helps save your major thoroughfare system. Many communities have only a few residential street design options that apply whether a subdivision has 8 homes or 80. Lack of design flexibility impedes infill development and results in a monotonous street layout. It can also cause a proliferation of substandard and inadequately maintained private streets.



#### Restrict the number of driveways per lot.

Establish a basic requirement that driveways are limited to one per parcel, with special conditions for additional driveways. Lots with larger frontages, or those with needs for separate right and left-turn entrances, could be permitted more than one driveway, in accordance with driveway spacing standards. Limitations on new driveways may be established using a "corridor overlay" approach, which adds new requirements onto the underlying zoning (see Figure1). It is necessary to first identify and map the boundaries of all existing lots and parcels along the corridor. Then you could assign one driveway to each mapped parcel by right. This land may be further subdivided, but all new lots would need to obtain access from the existing access point.

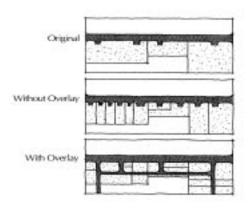


Figure 1. Corridor overlay



#### Locate driveways away from intersections.

Setting driveways and connections back from intersections reduces the number of conflicts and provides more time and space for vehicles to turn or merge safely across lanes. This spacing between intersections and driveways is known as corner clearance. Adequate corner clearance can also be



Figure 2. Inadequate corner clearance.

assured by establishing a larger minimum lot size for corner lots. You could impose conditional use limitations where adequate corner clearance cannot be obtained. This helps assure that corner properties do not experience access problems as traffic volumes grow.



## Connect parking lots and consolidate driveways.

Internal connections between neighboring properties allow vehicles to circulate between businesses without having to re-enter the major roadway (see Figures 3 and 4). Joint and cross access requirements in your land development code can help to assure connections between major developments, as well as between smaller businesses along a corridor.

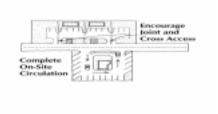


Figure 3. Joint and cross access. Cross access also needs to be provided for pedestrians. Sidewalks are typically placed far away from buildings on the right-of-way of major roadways, or are not provided at all. Pedestrians prefer the shortest distance between two points and will walk if walkways are provided near buildings. Joint and cross access strategies help to relieve demand on major roadways for short trips, thereby helping preserve roadway capacity. They also help to improve customer convenience, emergency access, and access for delivery vehicles.

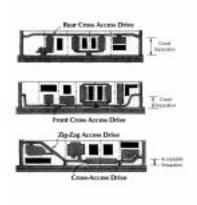


Figure 4. Cross access.



## Provide residential access through neighborhood streets.

Residential driveways on major roadways result in dangerous conflicts between high-speed traffic and residents entering and exiting their driveway. As the number of driveways increase, the roadway is gradually transformed into a high speed version of a local residential street. Subdivisions should always be designed so that lots fronting on major roadways have internal access from a residential street or lane (also known as "reverse frontage"—see Figures 5 and 6). Minor land division activity can be managed by establishing a restriction on new access points and allowing land to be further subdivided, provided all new lots obtain access via the permitted access point. A variation of this approach is to allow lot splits on major roadways only where access is consolidated. Another step is to prohibit "flag lots" along major thoroughfares. Some property owners subdivide their

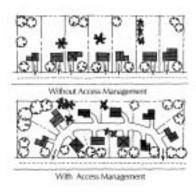


Figure 5. Shared access.

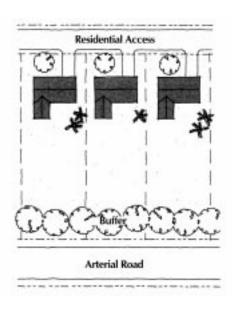


Figure 6. Reverse Frontage.

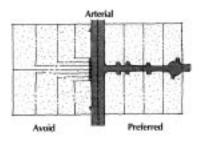


Figure 7. Avoid flag lots.

land into lots shaped like flags to avoid the cost of platting and providing a road. Instead, the flag lots are stacked on top of each other, with the "flag poles" serving as driveways to major roads (see Figure 7). This results in closely spaced driveways that undermine the safety and efficiency of the highway. Eventually, residents may petition for construction of a local public road passing the cost of providing a subdivision road onto the community.



## Increase minimum lot frontage on major roads.

Minimum lot frontages need to be larger for lots that front on major roadways, than those fronting on local roads. Narrow lots are a problem on major roads because they result in closely spaced driveways. Lots need to be deeper and wider along arterials to allow adequate flexibility in site design and to increase separation of access points (see Figure 8). Assuring an adequate lot size also protects the development potential and market value of corridor properties.

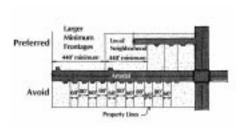


Figure 8. Lot frontage requirements.



#### Promote a connected street system.

As communities grow and land is subdivided for development, it is essential to assure continuation and extension of the existing local street system. Dead end streets, cul-desacs, and gated communities force more traffic onto collectors and arterials. Fragmented street systems also impede emergency access and increase the number and length of automobile trips. A connected road network advances the following growth management objectives:

- fewer vehicle miles traveled
- · decreased congestion
- · alternative routes for short, local trips
- · improved accessibility of developed areas
- · facilitation of walking, bicycling, and use of transit
- · reduced demand on major thoroughfares
- · more environmentally sensitive layout of streets and lots
- · interconnected neighborhoods foster a sense of community
- safer school bus routes

Connectivity can be enhanced by a) allowing shorter blocks (600 ft.) and excluding cul-de-sacs from the definition of intersection; b) requiring stub streets to serve adjacent undeveloped properties; c) requiring street connec-

tions to nearby activity centers; d) requiring connections to or continuation of existing or approved public streets; and e) requiring bicycle/pedestrian access-ways at the end of cul-de-sacs or between residential areas and parks, schools, shopping areas or other activity centers. It is also important to allow a greater variety of street types.



#### Encourage internal access to outparcels.

Shopping center developments often include separate lots or "outparcels" fronting on the major roadway. The outparcels are leased or sold to businesses looking for highly valued corridor locations. Access to these outparcels should be incorporated into the access and circulation system of the principal retail center. This reduces the need for separate driveways on the major road, while maintaining overall accessibility to the site. To accomplish this, establish that development sites under the same ownership or those consolidated for development will be treated as one site for the purposes of access management. Then require a unified traffic circulation and access plan for the overall development site.



# Regulate the location, spacing, and design of driveways.

Driveway *spacing* standards establish the minimum distance between driveways along major thoroughfares (see Figure 9). These standards help to reduce the potential for collisions, as travelers enter or exit the roadway. They also encourage the sharing of access for smaller parcels, and can improve community character by reducing the number of driveways and providing more area for pedestrians and landscaping. The *location* of driveways affects the ability of drivers to safely enter and exit a site. If driveways do not provide adequate sight distance, exiting vehicles may be unable to

see oncoming traffic. In turn, motorists on the roadway may not have adequate time to avoid a crash. Driveway design standards assure that driveways have an adequate design so vehicles can easily turn onto the site. Standards also need to address the depth of the driveway area. Where driveways are too shallow, vehicles are sometimes obstructed from entering the site causing others behind them to wait in through lanes. This blocks traffic and increases the potential for rearend collisions.

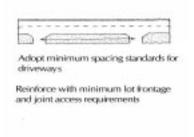


Figure 9. Driveway spacing standards.



The Florida Department of Transportation is responsible for access permits along state roadways. Local governments oversee land use, subdivision, and site design decisions that affect access needs. Therefore, State and local coordination is essential to effective access management. Lack of coordination can undermine the effectiveness of regulatory programs and cause unnecessary frustration for permit applicants.

Timely communication is key to an effective review procedure. Begin by establishing a coordinated process for review of access permits along state highways. The state per-

mitting official could have applicants send a copy of the complete permit application to the designated local reviewing official. Prior to any decision or recommendation, the state permitting official could then discuss the application with the local reviewing official.



Property owners also may be required to submit the necessary certificates of approval from other affected regulatory agencies, before a building permit is issued. In Florida, this should include a "notice of intent to permit" from the Florida Department of Transportation where access to the state highway system is requested.

An effective method of coordinating review and approval between developers and various government agencies is through a tiered process. The first stage is an informal meeting and "concept review" period, which allows officials to advise the developer about information needed to process a development application. This includes information on required state and local permits, and any special considerations for the development site.

The concept review provides the developer with early feedback on a proposal, before the preliminary plat or site plan has been drafted. Once the preliminary plan is drafted, it can be checked to determine if additional conditions are required for approval. The final plan that is formally submitted should then require only an administrative review.

Local governments could also request a response from the FDOT prior to approval of plats on the state highway system. Applicants could be required to send a copy of the subdivision application to the state access permitting official. This should occur early in the plat review process, preferably during conceptual review. Early monitoring of platting activity would allow the Department of Transportation an opportunity to identify problems and work on acceptable alternatives.

Intergovernmental agreements or resolutions can facilitate coordination between the state and local governments on access management. These tools can be used to clarify the purpose and intent of managing access along major thoroughfares, roadways that will receive special attention, and state and local responsibilities for advancing access management objectives.

#### Additional References

"Model Land Development Regulations that Support Access Management," Center for Urban Transportation Research, 1994. Williams, K., Marshall, M. "Managing Corridor Development," Center for Urban Transportation Research, 1996.

Williams, K., Forrester, R., "NCHRP Synthesis 233: Land Development Regulations that Promote Access Management." Transportation Research Board, Washington, D.C.: National Academy Press, 1996.

#### Training Opportunities

"Access Management: Site Planning," FDOT 1997 (A Training Unit), available through Gary Sokolow.

"Land Development Regulations that Support Access Management," FDOT 1997 (A Training Unit), available through Gary Sokolow.

#### Visit our Web Page at:

http://www.cutr.eng.usf.edu

#### For More Information, Contact:

Kristine M. Williams, AICP, Senior Research Associate Center for Urban Transportation Research (813) 974-9807 e-mail krwillia@cutr.eng.usf.edu

> Gary Sokolow, Systems Planning Office Florida Department of Transportation (850) 488-9747 e-mail gary.sokolow@dot.state.fl.us



#### Center for Urban Transportation Research

College of Engineering
University of South Florida
4202 E. Fowler Avenue, CUT 100
Tampa, Florida 33620-5375
(813) 974-3120
SunCom 574-3120
Fax (813) 974-5168

Web: http://www.cutr.eng.usf.edu

NEED 1	2008 2008 ADS 1 r 2008 ADS 1 r 2008 2008 ADS 1 r	AGENCY_CODE  33 35 needing or 35 needing or 33	ROUTE_ NUMBE R 1017 7 nly surfa	10 10	SECTION_ LENGTH  0.7  0.2	ROADWAY_ WIDTH	TYPE_CODE		T_COUNT 19554	MSRISD_ ADS_NUMBE R	BIA_CTI 1260.919
ADS1S  ADS1S Total  ADS1W  ADS1W Total  ADS1SW  ADS1SW  ADS1SW  ADS1SW Total  ADS2S	2008 ADS 1 r 2008 ADS 1 r 2008 2008 ADS 1 r	35 needing or 35 needing or	7 nly surfa	10				4		1	
ADS1S  ADS1S Total  ADS1W  ADS1W Total  ADS1SW  ADS1SW  ADS1SW  ADS1SW  ADS2S	2008 ADS 1 r 2008 ADS 1 r 2008 2008 ADS 1 r	35 needing or 35 needing or	7 nly surfa	10				7			
ADS1S Total A ADS1W  ADS1W Total A ADS1SW  ADS1SW  ADS1SW Total A ADS2S	ADS 1 r 2008 ADS 1 r 2008 2008 ADS 1 r	needing or 35 needing or	nly surfa		0.2	68	3	4	18978	1 1	360.2625
ADS1W  ADS1W Total A  ADS1SW  ADS1SW  ADS1SW Total A  ADS2S  ADS2S	2008 ADS 1 r 2008 2008 ADS 1 r	35 needing or			0.9	00	3	7	10970	1	1621.181
ADS1W Total A ADS1SW ADS1SW Total A ADS2S	ADS 1 r 2008 2008 ADS 1 r	needing or	/	15		60	4	_	18978	1	
ADS1SW ADS1SW Total ADS2S Total A	2008 2008 ADS 1 r				0.1	60	4	5	189/8	1	97.54595
ADS1SW ADS1SW Total ADS2S ADS2S ADS2S ADS2S ADS2S ADS2S ADS2S ADS2S Total A	2008 ADS 1 r	33			0.1						97.54595
ADS1SW Total A ADS2S ADS2S ADS2S ADS2S ADS2S ADS2S ADS2S Total A	ADS 1 r		1017	20	0.2	56	4	4	17645	1	191.9886
ADS2S ADS2S ADS2S ADS2S ADS2S ADS2S ADS2S Total A		33	1017	25	0.1	56	4	4	15327	1	95.99428
ADS2S ADS2S ADS2S ADS2S Total A		needing su			0.3						287.9828
ADS2S ADS2S Total A	2008	36	12	100	0.5	88	3	4	14849	2	900.6563
ADS2S ADS2S Total A	2008	36	12	105	0.4	88	3	4	14849	2	720.525
ADS2S Total A	2008	36	12	110	0.3	78	3	4	14849	2	540.3938
	2008	36	12	115	0.8	78	3	4	14849	2	1441.05
I TO CLASSIC	DS 2 r	needing or	nly surfa	ce upgrad	2.0						3602.625
ADS2W	2008	35	7	30	0.1	60	4	5	16761	2	13.40898
ADS2W	2008	35	7	40	0.7	60	4	5	15423	2	1004.005
ADS2W Total A	DS 2 r	needing or	nly road	way wide	0.8						1017.414
ADS4	2008	36	12	160	0.2	66	4	5	14849	4	146.0678
ADS4	2008	36	12	165	1.1	66	4	5	14849	4	803.3726
ADS4	2008	36	110	40	0.1	39	4	5	12709	4	73.03388
ADS4	2008	36	110	43	0.1	39	4	5	8502	4	73.03388
ADS4	2008	36	110	46	0.1	39	4	5	8502	4	73.03388
ADS4	2008	36	12	180	0.2	68	3	5	7958	4	231.25
ADS4	2008	36	54	90	0.7	50	3	5	4706	4	35.65821
ADS4	2008	36	54	80	0.4	51	3	5	3776	4	0.84
ADS4	2008	36	9	20	0.4	36	3	5	3303	4	0.04
ADS4	2008	36	9	25	1.3	36	3	5	3190	4	0
ADS4 Total	2008	30	,	23	4.8	30	3	3	3190		1436.29
ADS4S	2008	36	12	150	0.4	78	4	4	14849	4	
ADS4S ADS4S	2008	36	110	10	0.4	68	4	4	14849	4	
ADS4S ADS4S	2008	36	110	30	0.3	68	4	4	14849	4	
ADS4S ADS4S	2008	36	110	35	0.2	68			14849	4	270.1811
ADS4S ADS4S	2008	36	15	200	0.5	46	3	4	3946	4	
ADS4S ADS4S	2008	36	15	190	0.3	46	3	4	3144	4	270.1811
ADS4S ADS4S	2008	36	15	210	0.5	46	3	4	3059	4	
ADS4S ADS4S	2008	36	15	348	0.5	50			3059	4	450.3019
							3	4		-	
ADS4S	2008	33	15	110	2.5	36	3	4	1623	4	1086.821
ADS4S	2008	36	7	146	0.4	46	3	4	1538	4	173.8913
		needing or	-		5.9	20	2	~	0.604		3962.523
ADS4W	2008	36	12	226	0.1	30	3	5	8684	4	115.625
ADS4W	2008	34	56			28	3	5	2303	4	
ADS4W	2008	34	56	60	0.3	28	3	5	2303	4	
ADS4W	2008	36	54	20	0.2	26	3	5	2193	4	
ADS4W	2008	33	2	80	12.5	28	3	5	1798	4	
		needing or			13.8						6578.342
ADS4SW	2008	36	12	228	0.1	24		4	8684	4	
ADS4SW	2008	32	364	80	0.4	24		4	5699	4	
ADS4SW	2008	32	364	82	1.0	24		4	5699	4	
ADS4SW	2008	32	364	84	0.5	24		4	5699	4	
ADS4SW	2008	32	364	86	1.0	24		4	5699	4	
ADS4SW	2008	36	112	50	0.2	32	3	4	5414	4	
ADS4SW	2008	36	112	60	0.2	34	3	4	4534	4	180.1208
ADS4SW	2008	36	7	150	0.2	34	3	4	3218	4	
ADS4SW	2008	36	15	270	6.4	34	3	4	3059	4	5763.864
ADS4SW	2008	36	15	346	0.3	24	3	4	3053	4	270.1811
ADS4SW	2008	36	12	250	1.8	24		4	2771	4	2425.05
ADS4SW	2008	36	7	140	0.6	32	3	4	2474	4	
	2008	34	56	10	2.3	28	3	4	2303	4	
ADS4SW	2008	34	56	20	2.5	28	3	4	2303	4	
				30	2.1	28	3	4	2303		
ADS4SW	2008	34	. h	. )()					2.50.5	4	1 2829.225
	2008 2008	34 36	56 15	165	1.6	32	3	4	2034	4	

	11 1		NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	II .	11
			ROUTE_				MSRIS	MSRIS	MSRISD_	MSRISD_	
NIEED 1	FISCAL_	AGENCY_	NUMBE	SECTION_	SECTION_ LENGTH	ROADWAY_	SHOULDER_ TYPE CODE	SURFACE_ TYPE CODE		ADS_NUMBE	
NEED 1	YEAR	CODE	R	NUMBER		WIDTH			T_COUNT	R	BIA_CTI
ADS4SW	2008	33	15	60	3.9	34	3	4	1623	4	
ADS4SW	2008	33	15	80	1.2	34	3		1623		
ADS4SW	2008	33	15	115	3.0	34	3	4	1596	4	2701.811
ADS4SW	2008	33	15	120	7.6	34	3	4	1596	4	3303.935
ADS4SW	2008	36	15	160	0.9	32	3	4	1596	4	810.5434
ADS4SW	2008	33	2	60	14.0	28	3	4	1516	4	12608.45
ADS4SW Total	ADS 4	needing su	ırface up	grade and	54.0						46971.29
ADS5	2008	35	7	42	0.5	60	4	5	13077	5	860.1115
ADS5	2008	35	7	44	0.2	60	4	5	13077	5	344.0446
ADS5	2008	35	7	46	0.5	60	4	5	10634	5	
ADS5	2008	35	7	48	0.1	60	4	5	10634	5	172.0223
ADS5	2008	36	12	224	0.3	76	4	5	8684	5	137.781
ADS5	2008	36	12	185	0.3	68	3		8362	5	
ADS5	2008	36	12	190	4.9	40	3		8362	5	
ADS5	2008	36	12	195	0.8	40	3		8362	5	
ADS5	2008	36	12	210	3.6	40	3		8362	5	
ADS5	2008	36	12	220	0.3	40	3		8362	5	
ADS5	2008	36	12	222	0.3	76	4		8362	5	
ADS5	2008	36	12	170	0.8	68	3		7958	5	344.0446
ADS5	2008	32	36	95	0.2	46	3		6583	5	179.3079
ADS5	2008	32	36	96	0.3	58	3		6583	5	119.5386
ADS5	2008	32	36	97	0.2	46	3		6583	5	358.6158
ADS5	2008	32	36	99	0.0	46	3		6583		
										5	
ADS5	2008	32	36	190	1.1	40	3		6583	5	
ADS5	2008	34	9	183	0.5	56	3		4710	5	
ADS5	2008	34	9	186	0.3	56	3		4710	5	
ADS5	2008	35	27	190	0.2	40	4		4238	5	344.0446
ADS5	2008	35	27	193	0.1	40	4		4238		172.0223
ADS5	2008	35	27	196	0.1	40	4		4238		172.0223
ADS5	2008	35	27	200	0.1	45	4	_	4238		
ADS5	2008	33	15	30	3.9	36	3		4137	5	4870.082
ADS5	2008	33	15	33	0.3	36	3		4137	5	53.96112
ADS5	2008	33	15	36	0.4	36	3		4137	5	71.94816
ADS5	2008	35	4	136	1.3	40	3		3338	5	2236.29
ADS5	2008	35	4	132	4.9	40	3	5	3332	5	8429.093
ADS5	2008	34	9	180	0.5	56	3	5	3328	5	
ADS5	2008	36	9	10	3.4	36	3	5	3303		
ADS5	2008	36	9	40	2.2	36	3	5	3190	5	(
ADS5	2008	36	9	45	1.5	36	3	5	3190	5	(
ADS5	2008	33	15	10	5.4	36			3179		6743.191
ADS5	2008	35	4	134	2.0	40	3	5	3010	5	3440.446
ADS5	2008	36	54	10	0.8	48	3	5	2565	5	42.2688
ADS5	2008	36	9	60	1.6	36	3	5	1743	5	(
ADS5	2008	36	9	70	3.8	36			1638	5	200.7768
ADS5 Total					48.2						36528.93
ADS5S	2008	36	12	130	2.8	78	3	4	20882	5	
ADS5S	2008	36	100	10	0.4	62	3		14849		
ADS5S	2008	36	100	15	0.1	62	3		14849		
ADS5S	2008	33	15	20	4.9	36			3084		
ADS5S	2008	36	7	90	0.5	56			1485		
ADS5S Total		needing or				30	7	,	1103		17184.79
ADS5W	2008	36	12	80	0.3	28	3	5	7339	5	
ADS5W ADS5W	2008	36	12	85	0.7	28			7339		
ADS5W ADS5W	2008	32	36	100	4.6	34	3		6583		
ADS5W ADS5W	2008	32	36	110	0.7	34			6583		
ADS5W ADS5W	2008	35		34	0.7	30					
			4						6056		
ADS5W	2008	35	4	36	0.4	30			6056		
ADS5W	2008	35	4	50	0.9	30	3		6056		
ADS5W	2008	35	59	245	0.5	34			5570		
ADS5W	2008	36	12	66	3.6	28					
ADS5W	2008	32	36	94	3.4	34	3	5	4252	5	2032.150

	ır ı		NEED	1: HIGH	<u>IWAY G</u>	<u>EOMETR</u>	IC DESIG	N DEFICI	ENCIES	•	1
NEED 1		AGENCY_ CODE	ROUTE_ NUMBE R		SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS_ SHOULDER_ TYPE_CODE			MSRISD_ ADS_NUMBE R	MSRISD_ BIA_CTI
	2008	35	4		3.5			ļ			
ADS5W ADS5W	2008	48	3003	53 90	0.3	30	3			5	6020.781 76.5018
ADS5W ADS5W		48		95	2.1	34				5	535.5126
	2008 2008	-	3003			34	3			5	
ADS5W		48	3003	110	0.1		3				25.5006
ADS5W	2008	48	3003	130	2.8	34	3			5	714.0168
ADS5W	2008	48	3003	135	2.0	34	3		4110	5	510.012
ADS5W	2008	34	9	125	0.5	34	3			5	229.635
ADS5W	2008	34	9	140	2.3	34	3			5	1056.321
ADS5W	2008	34	9	170	7.7	34	3		3328	5	4602.236
ADS5W	2008	35	13	10	0.7	30	3			5	1204.156
ADS5W	2008	35	13	30	1.3	30	3			5	2236.29
ADS5W	2008	35	4		0.2	30				5	344.0446
ADS5W	2008	32	36	55	5.4	34	3			5	2480.058
ADS5W	2008	32	36	60	0.6	34				5	275.562
ADS5W	2008	32	36		0.6	34	3			5	358.6158
ADS5W	2008	32	36		0.9		3			5	537.9237
ADS5W	2008	35	4	130	0.1	24		5	2587	5	172.0223
ADS5W	2008	32	36	10	7.5	34	3			5	4482.698
ADS5W	2008	32	36		0.4	34	3			5	183.708
ADS5W	2008	32	36		0.6	34	3			5	275.562
ADS5W	2008	32	36	50	3.0	34	3		2541	5	1377.81
ADS5W	2008	32	13	95	6.4	28	3			5	13034.84
ADS5W	2008	35	59	205	1.9	34	3			5	341.7538
ADS5W	2008	35	59	210	0.9	34	3			5	1548.201
ADS5W	2008	35	59	213	6.5	34	3			5	11181.45
ADS5W	2008	35	59	216	0.9	34	3	5		5	1548.201
ADS5W	2008	35	59	230	4.2	34	3		2346	5	7224.937
ADS5W	2008	35	59	240	0.2	34	3	5	2346	5	344.0446
ADS5W	2008	36	12	35	0.4	34	3	5	2287	5	71.94816
ADS5W	2008	36	12	50	1.1	28	3	5	2287	5	1892.245
ADS5W	2008	36	12	55	0.8	28	3		2287	5	1376.178
ADS5W	2008	36	12	60	0.6	28	3	5	2287	5	1032.134
ADS5W	2008	36	12	63	0.9	28	3	5	2287	5	1548.201
ADS5W	2008	36	54	30	0.9	26	3	5	2193	5	47.5524
ADS5W	2008	33	59	40	0.1	34	3	5	1862	5	17.98704
ADS5W	2008	33	59	60	0.5	34	3	5	1862	5	89.9352
ADS5W	2008	33	59	70	1.2	34	3	5	1862	5	215.8445
ADS5W	2008	33	59	90	0.9	34	3	5	1862	5	161.8834
ADS5W	2008	33	59	110	2.2	34	3	5	1862	5	395.7149
ADS5W	2008	33	59	120	2.6	34	3	5	1862	5	467.663
ADS5W	2008	33	59	130	0.7	34	3	5	1862	5	1204.156
ADS5W	2008	33	59	140	1.3	34	3		1862	5	233.8315
ADS5W	2008	33	59	160	0.2	34	3	5	1862	5	35.97408
ADS5W	2008	35	59	170	2.0	34	3		1862	5	359.7408
ADS5W	2008	36	12	10	0.5	34	3		1801	5	0
ADS5W	2008	36	12	12	1.6	24	3			5	0
ADS5W	2008	36	12	14	5.9	34				5	0
ADS5W	2008	36	12	16	0.7	34				5	125.9093
ADS5W	2008	36	12	30	0.2	34	_			5	35.97408
ADS5W	2008	35	59	190	0.1	34				5	17.98704
ADS5W	2008	35	59	195	1.6	34				5	287.7926
ADS5W	2008	35	59	200	1.8	34				5	323.7667
ADS5W	2008	33	59	10	11.5	34	3			5	2068.51
ADS5W	2008	33	59	30	1.8	34				5	323.7667
ADS5W	2008	36	9		1.4	34				5	73.9704
ADS5W ADS5W	2008	34	9		3.0	34				5	1377.81
ADS5W ADS5W	2008	36	9	_	0.3	34	3			5	15.8508
	2008	36	9		3.6					5	190.2096
	2008										
ADS5W	2000	2/	0	200	4.0	2.4		_	1/1/2		77750 777
ADS5W ADS5W ADS5W	2008 2008	34 34	9		4.9 3.5	34				5	2250.423 1607.445

	11 1		NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	11	11
			ROUTE_				MSRIS_	MSRIS	MSRISD_	MSRISD_	
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	SHOULDER_ TYPE_CODE	SURFACE_ TYPE CODE		ADS_NUMBE R	MSRISD_ BIA_CTI
	_										ļ
ADS5W	2008	34	9	223	4.2	34	3		1412	5	
ADS5W	2008	34	9	226	0.4	34	3		1412	5	
ADS5W	2008	_	9	230	6.2	34	3	5	1412	5	
ADS5W	2008	36	54	40	3.2	26	3	5	1124	5	169.0752
ADS5W	2008	35	27	60	1.4	32	3	5	1053	5	1748.235
ADS5W	2008	35	27	70	0.3	32	3		1053		374.6217
ADS5W	2008	35	27	80	0.8	32	3		1053		998.9912
ADS5W	2008	36	27	10	1.4	30	3	5	1016		2408.312
ADS5W	2008	36	27	30	4.9	30	3		1016		8429.093
ADS5W	2008	36	27	35	0.5	30	3		1016		
ADS5W	2008	36	27	40	1.3	30	3	5	1016		2236.29
ADS5W	2008	36	27	45	4.0	30	3		1016		
ADS5W	2008	36	27	50	0.6	30	3		1016		1032.134
ADS5W	2008	35	13	35	0.8	30	3		1002	5	
ADS5W	2008	35	13	50	1.1	30	3	5	1002	5	
ADS5W	2008	35	13	55	0.9	30	3	5	1002	5	
ADS5W	2008	35	27	40	2.2	32	3		875	5	2747.226
ADS5W	2008	35	27	83	1.0	32	3	5	716		
ADS5W	2008	35	27	86	2.8	32	3	5	716		3496.469
ADS5W	2008	32	13	90	1.3	28	3	5	541	5	2647.701
ADS5W	2008	36	54	50	4.0	29	3	5	429	5	211.344
ADS5W	2008	36	54	70	1.4	29	3	5	429	5	
ADS5W Total		needing o			184.0						143682.4
ADS5SW	2008	36	100	20	0.1	26	3		14849	5	
ADS5SW	2008	36	100	25	0.1	26	3	4	14849	5	203.6693
ADS5SW	2008	35	7	50	0.4	22		4	10634	5	
ADS5SW	2008	36	12	240	1.8	24		4	8684	5	1075.847
ADS5SW	2008	35	7	52	0.7	22	_	4	7407	5	1425.685
ADS5SW	2008	35	4	32	0.2	30	3	4	6056		407.3386
ADS5SW	2008	32	364	65	1.3	24	_	4	5699	5	
ADS5SW	2008	33	20	90	1.6	32	3	4	5557	5	3258.709
ADS5SW	2008	36	112	10	3.4	32	3		5414	5	6924.756
ADS5SW	2008	36	112	30	2.3	32	3		5414		4684.394
ADS5SW	2008	36	112	35	0.3	32	3		5414	5	
ADS5SW	2008	35	64	10	5.3	24		4	5104	5	
ADS5SW	2008	35	64	15	6.5	24		4	5104	5	
ADS5SW	2008	35	64	20	2.2	24	2	4	5104		
ADS5SW	2008	33	20	80	12.7	32	3	4	4837	5	
ADS5SW	2008	35	41	10	0.6	28	3		4706		
ADS5SW	2008	35	41	12	1.0	28			4706		
ADS5SW	2008	48	3005	40	4.7	26	_		4391	5	
ADS5SW	2008	48	3005	45	0.3	26	3		4391	5	
ADS5SW	2008	35	64	24	0.6	24		4	4302	5	
ADS5SW	2008	35	64	25	0.4	24		4	4302	_	
ADS5SW	2008	35	64	26	0.1	24	-	4	4302		
ADS5SW	2008	33	15	50	0.4	34	3	4	4137	5	
ADS5SW	2008	48	3003	60	5.0	34	3		4110		
ADS5SW	2008	48	3003	80	0.7	34	3		4110	_	
ADS5SW	2008	36	112	63	0.9	34	3		3885		
ADS5SW	2008	36	112	66	0.2	34	3		3885		
ADS5SW	2008	48	3003	55	0.4	34	3		3813		
ADS5SW	2008	36	15	341	1.6	24	3		3689		
ADS5SW	2008	36	110	50	0.4	24		4	3610		
ADS5SW	2008	36	110	55	0.5	24		4	3610		
ADS5SW	2008	35	64	21	3.5	24		4	3598		
ADS5SW	2008	35	64	23	5.8	24		4	3598		
ADS5SW	2008	35	4	90	1.3	24		4	3427	5	
ADS5SW	2008	34	9	150	4.5	34	3	4	3328		
ADS5SW	2008	34	9	160	1.0	34			3328		
ADS5SW	2008	35	4	110	4.1	24		4	3315		
ADS5SW	2008	35	12	450	2.6	22		4	3312	5	5295.402

<del></del>		1	NEED	1: HIGH	IWAY G	EOMETR	IC DESIG	N DEFICI	ENCIES	1	0
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS_ SHOULDER_ TYPE CODE			MSRISD_ ADS_NUMBE R	MSRISD_ BIA_CTI
ADS5SW	2008	35	12	455	1.4	22		4	3312	5	
ADS5SW ADS5SW	2008	35	12	470	2.9	22		4	3312	5	5906.41
ADS5SW ADS5SW	2008	35	4		1.8	24			3276	5	3666.047
ADS5SW ADS5SW	2008	35	4	100 70	0.3	24		4	3078	5	
ADS5SW ADS5SW	2008	35	4	73	3.1	24		4	3078	5	6313.748
ADS5SW ADS5SW	2008	36	15	230	3.6	28	3	4	3078	5	7332.095
ADS5SW ADS5SW	2008	36	15	342	0.6	24	3	4	3053	5	1222.016
ADS5SW ADS5SW	2008	36	15	344	0.0	24	3	4	3053	5	
ADS5SW ADS5SW	2008	35	4	25	1.3	24	3	1	3009	5	
ADS5SW ADS5SW	2008	35	4	30	0.3	30	3	4	3009	5	
ADS5SW ADS5SW	2008	35	4	120	6.0	24	3	4	2896	5	
ADS5SW ADS5SW	2008	36	12	245	4.4	24		4	2771	5	2629.849
ADS5SW ADS5SW	2008	36	12	260	1.8	24		4	2771	5	
ADS5SW	2008	36	12	280	1.7	24		4	2771	5	1016.078
ADS5SW ADS5SW	2008	36	12	285	4.9	24		4	2771	5	
ADS5SW ADS5SW	2008	36	12	290	0.2	24		4	2771	5	407.3386
ADS5SW ADS5SW	2008	36	15	290	1.7	25	3	4	2677	5	
ADS5SW ADS5SW	2008	36	15	295	1.7	25	3	4	2677	5	2851.37
ADS5SW ADS5SW	2008	36	15	300	0.9	23	3		2677	5	
ADS5SW ADS5SW	2008	36	15	305	4.2	24	3	4	2677	5	8554.111
ADS5SW ADS5SW	2008	36	15	310	1.5	24	3		2677	5	3055.04
ADS5SW ADS5SW	2008	36	15	315	1.0	24	3		2677	5	2036.693
ADS5SW	2008	36	15	320	2.8	24	3		2677	5	5702.74
ADS5SW ADS5SW	2008	36	15	325	1.2	24	3	4	2677	5	2444.032
ADS5SW	2008	36	15	330	1.6	24	3		2677	5	3258.709
ADS5SW	2008	36	15	340	2.4	24	3	4	2677	5	4888.063
ADS5SW	2008	36	6	63	3.3	28	3	4	2621	5	6721.087
ADS5SW	2008	35	12	473	6.6	22		4	2606	5	13442.17
ADS5SW	2008	35	12	476	0.6	22		4	2606	5	1222.016
ADS5SW	2008	35	4	76	3.9	24		4	2527	5	7943.103
ADS5SW	2008	35	4	95	1.1	24		4	2527	5	2240.362
ADS5SW	2008	36	7	120	0.4	32	3	4	2525	5	814.6772
ADS5SW	2008	32	13	100	0.9	24		4	2487	5	1833.024
ADS5SW	2008	32	13	120	1.0	24		4	2487	5	2036.693
ADS5SW	2008	32	13	130	3.2	24		4	2487	5	1912.618
ADS5SW	2008	32	13	140	1.1	24		4	2487	5	657.4623
ADS5SW	2008	32	13	160	0.5	24		4	2487	5	298.8465
ADS5SW	2008	32	13	170	4.3	24		4	2487	5	2570.08
ADS5SW	2008	32	13	190	0.1	24		4	2487	5	59.7693
ADS5SW	2008	32	13	210	0.1	24		4	2487	5	59.7693
ADS5SW	2008	32	13	230	5.7	24		4	2487	5	3406.85
ADS5SW	2008	32	13	240	4.5	24		4	2487	5	2689.619
ADS5SW	2008	34	56	70	0.4	20		1	2303	5	
ADS5SW	2008	35	12	420	7.7	22		4	2291	5	15682.54
ADS5SW	2008	35	12	440	2.2	22		4	2291	5	4480.725
ADS5SW	2008	36	6	70		28	3	4	2236	5	8961.449
ADS5SW	2008	36	15	180	2.3	32	3	4	2034	5	4684.394
ADS5SW	2008	36	6	10	8.3	28	3		1994	5	16904.55
ADS5SW	2008	36	6	20	2.4	26	3		1994	5	4888.063
ADS5SW	2008	36	6	40	1.7	28	3		1994	5	3462.378
ADS5SW	2008	36	6	50	3.5	28	3	4	1994	5	7128.426
ADS5SW	2008	36	6	60	0.5	28	3		1994	5	1018.347
ADS5SW	2008	48	3005	35	4.2	26	3		1919	5	2510.311
ADS5SW	2008	36	6	66		28	3	4	1847	5	
ADS5SW	2008	35	12	480	7.0	28	3	4	1746	5	
ADS5SW	2008	35	12	485	6.8	28	3	4	1746	5	13849.51
ADS5SW	2008	36	7	105	1.3	34	3	4	1639	5	2647.701
ADS5SW	2008	33	15	100	2.5	34			1623	5	
ADS5SW	2008	36	15	130	3.0	30	3	4	1596	5	
ADS5SW	2008	36	15	135	0.8	30			1596		
ADS5SW	2008	36	15	150	5.1	30	3	4	1596	5	10387.13

		1	NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	11	Ti .
			ROUTE_				MSRIS	MSRIS	MSRISD_	MSRISD_	
NEED 1	FISCAL_	AGENCY_	NUMBE	SECTION_	SECTION_ LENGTH	ROADWAY_				ADS_NUMBE	
NEED 1	YEAR	CODE	R	NUMBER		WIDTH	TYPE_CODE	TYPE_CODE		R	BIA_CTI
ADS5SW	2008	36	15	155	2.8	30	3	4	1596		
ADS5SW	2008	36	6	80	2.3	28	3	4	1592	5	4684.394
ADS5SW	2008	35	7	54	7.1	22		4	1521	5	14460.52
ADS5SW	2008	35	7	56	3.1	22		4	1521	5	6313.748
ADS5SW	2008	35	41	14	6.1	28	3	4	1497	5	12423.83
ADS5SW	2008	36	7	85	1.2	34	3	4	1485	5	2444.032
ADS5SW	2008	36	7	100	8.8	34	3	4	1485	5	17922.9
ADS5SW	2008	48	3003	50	3.2	34	3	4	1429	5	1912.618
ADS5SW	2008	34	9	240	4.3	30	3	4	1412	5	2570.08
ADS5SW	2008	34	9	242	4.8	30	3		1412	5	
ADS5SW	2008	34	9	244	1.6	30	3		1412	5	
ADS5SW	2008	34	9	246	4.8	30	3		1412	5	
ADS5SW	2008	34	9	250	1.0	34	3		1412	5	
ADS5SW	2008	34	9	252	0.4	34	3		1412	5	
ADS5SW	2008	34	9	254	10.2	34	3	4	1412	5	
ADS5SW	2008	32	12	530	12.3	34	3	4	1320	5	
ADS5SW ADS5SW	2008	32	12	540	8.4	34	3	4	1320	5	
ADS5SW ADS5SW	2008	32	12	560	0.6	32	3	4	1320		
ADS5SW ADS5SW	2008	48	3005	15	3.7	26	3	4	1320	5	
ADS5SW ADS5SW	2008	48	3005	30		26	3		1249	5	
					0.6		3		_		
ADS5SW	2008	35	27	180	0.6	22		1	1084	5	1186.042
ADS5SW	2008	35	27	183	2.3	22		1	1084	5	
ADS5SW	2008	35	27	186	0.1	22	_	1	1084	5	+
ADS5SW	2008	32	12	520	5.1	34	3		1083	5	
ADS5SW	2008	34	9	256	0.5	34	3		974		
ADS5SW	2008	34	9	260	0.2	34	3		974	5	
ADS5SW	2008	34	9	262	0.4	34	3	4	974	5	
ADS5SW	2008	34	9	264	4.9	34	3	4	974	5	2928.696
ADS5SW	2008	34	9	266	4.8	34	3	4	974	5	2868.926
ADS5SW	2008	35	41	120	4.3	22		1	806	5	8499.966
ADS5SW	2008	35	41	140	2.4	22		1	806	5	4744.167
ADS5SW	2008	35	41	16	1.1	28	3	4	729	5	2240.362
ADS5SW	2008	35	41	30	1.3	28	3	4	729	5	2647.701
ADS5SW	2008	35	41	50	2.0	28	3	4	729	5	4073.386
ADS5SW	2008	35	41	60	0.9	28	3	4	729	5	1833.024
ADS5SW	2008	35	41	70	4.4	28	3	4	729	5	8961.449
ADS5SW	2008	35	41	90	2.5	28	3		729	5	5091.733
ADS5SW	2008	35	41	110	0.3	28	3	4	729	5	
ADS5SW	2008	34	56	72	2.0	20		1	695	5	
ADS5SW	2008	35	27	170	0.8	24		1	616	_	1581.389
ADS5SW	2008	35	13	60	2.1	22		1	549		4151.146
ADS5SW ADS5SW	2008	35	4	20	7.7	24		1	545		15220.87
ADS5SW ADS5SW	2008	35	27	90	2.5	20		1	408		4941.841
ADS5SW ADS5SW	2008	35	27	100	1.3	18		1	408		
ADS5SW ADS5SW	2008	35	27	120	0.1	24			408		197.6736
ADS5SW ADS5SW	2008	35	27		4.1	20		1	408		
				140				1			
ADS5SW	2008	35	27	150	2.6	20		1	408	5	
ADS5SW Total		needing su					_	_			613970.9
ADS6	2008	35	27	50	0.2	42	3		875		
ADS6	2008	35	27	55	1.0	42	3	5	875	6	
ADS6 Total					1.2						1138.756
ADS6S	2008	36	7	115	2.1	44	3		1639		
ADS6S	2008	36	7	110	2.1	44			1485		
ADS6S	2008	35	41	65	1.1	40	3	4	729	6	
ADS6S Total	ADS 61	needing or	nly surfa	ce upgrad	5.3						7080.758
ADS6W	2008	36	12	40	3.1	28	3	5	2287	6	825.9739
ADS6W	2008	36	12	43	2.7	28	3	5	2287	6	719.3966
ADS6W	2008	36	12	46	0.5	28			2287		133.2216
ADS6W	2008	32	13	80	5.2	28			541	6	
ADS6W Total		needing or				20	3		5.1		3064.09
ADS6SW	2008	35	13	70	1.2	22		1	549	-	1496.613

	11 1		NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	11	n
	FISCAL		ROUTE_ NUMBE	SECTION_	SECTION	ROADWAY_	MSRIS_ SHOULDER	MSRIS SURFACE	MSRISD_ FUTURE AD	MSRISD_ ADS_NUMBE	MSRISD
NEED 1	YEAR		R	NUMBER	LENGTH	WIDTH		TYPE_CODE		R	BIA_CTI
ADS6SW	2008	35	13	75	1.5	22		1	549	6	1870.766
ADS6SW Total	ADS 61	needing su	ırface up	grade and	2.7						3367.38
ADS7	2008	36	15	170	0.5	32	3	4	149	7	231.125
ADS7	2008	36	9	51	0.2	36	3	5	149	7	11.4324
ADS7	2008	36	9	53	0.1	36	3	5	149	7	(
ADS7 Total					0.8						242.5574
ADS8	2008	36	15	280	6.4	36	3	4	149	8	2958.4
ADS8 Total					6.4						2958.4
ADS8W	2008	34	474	60	0.1	26	3	4	391	8	122.3535
ADS8W	2008	34	474	65	0.1	26	3	4	391	8	122.3535
ADS8W	2008	34	474	70	0.6	26	3	4	391	8	734.1209
ADS8W	2008	34	474	90	0.4	26	3		391	8	489.4139
ADS8W	2008	34	474	95	0.4	26	3	4	391	8	
ADS8W	2008	34	474	110	1.0	26	3	4	391	8	1223.535
ADS8W	2008	34	474	30	3.9	26		4	376	8	
ADS8W	2008	34	474	35	0.1	26		4	376	8	
ADS8W	2008	34	474	40	1.2	26		4	376		
ADS8W	2008	34	474	50	3.1	26	3	4			
ADS8W	2008	34	474	53	0.9	26	3	4	376		
ADS8W	2008	34	474	56	0.1	26	3	4	376	8	
ADS8W	2008	0	2006	70	0.2	24	3	4	218		
ADS8W	2008	35	4	114	0.2	24	3		149	8	
ADS8W	2008	35	4	116	0.4	24		4	149	8	
ADS8W	2008	35	12	471	0.2	22		4		8	
ADS8W	2008	36	15	220	6.5	28	3	4	149	8	
ADS8W	2008	36	15	240	3.6	28	3			8	
ADS8W	2008	36	15	260	0.5	28	3		149	8	
ADS8W	2008	48	3005	10	0.4	26	3			8	
ADS8W	2008	35	4	51	0.4	30	3		149	8	
ADS8W Total		needing or	•		24.3	30	3	3	147		17256.06
ADS8SW	2008	34	474	10	0.5	26		1	376	8	
ADS8SW	2008	34	474	20	1.7	26		1	376		
ADS8SW	2008	34	474	25	4.3	26		1	376		
ADS8SW	2008	35	7	60	0.2	22		1	358		
ADS8SW	2008	35	4	15	9.2	24		1	346		
ADS8SW	2008	34	56	74	1.8	20		1	244		
ADS8SW	2008	35	4	10	1.3	24		1	184		
ADS8SW	2008	33	20	60	0.4	24		9	169	8	
ADS8SW	2008	34	56	76	2.7	20		1			
ADS8SW	2008	-				22		1	149		414.675
ADS8SW Total		needing su				22			10		18497.88
ADS9SW	2008	36	7	70	4.2	20		1	383	9	
ADS9SW	2008	35	7	63	9.5	22		1	358		11223.78
ADS9SW	2008	35	7	66	9.2	22		1	358		10869.34
ADS9SW	2008	36	7	75	1.4	18		3			
ADS9SW Total		needing su				10			1.7		28738.92
ADS10	2008	33	607	20	0.2	40	4	5	5841	10	152.5726
ADS10	2008	33	607	30	0.3	40	4	1			228.8589
ADS10	2008	32	514	10	0.1	34	3				120.3649
ADS10	2008	34	55	10	7.5	40	3	5			6336.977
ADS10	2008	0	2025	10	0.7	32	3				401.7601
ADS10 Total	2000		2023	10	8.8	32			, .	10	7240.533
ADS10S	2008	35	102	10	1.0	40	3	4	6151	10	1137.602
ADS10S	2008	34	111	50	1.0	36	3		3828		1444.379
ADS10S	2008	34	11	60	1.8	36	3				2166.569
ADS10S	2008	34	11	70	1.8	36	3				2166.569
ADS10S ADS10S	2008	34	11	75	2.6	36	3		2787		3129.488
ADS10S ADS10S	2008	32	34	60	9.0	34	3				10832.84
ADS10S ADS10S	2008	32	513	10	0.1	34	3				120.3649
ADS10S Total		needing o				34	3	4	4//	10	20997.81
AUSTOS LOIZI	Lans 10	needing (	лиу suri	ace upgra	17.5				1	1	1 ZU77/.01

	1 1	1	NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	T	1
ļ			ROUTE_				MSRIS	MSRIS	MSRISD_	MSRISD_	
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	SHOULDER_ TYPE CODE	SURFACE_ TYPE CODE	FUTURE_AD T COUNT	ADS_NUMBE R	
	<u> </u>					WIDIH	TYPE_CODE	TYPE_CODE			BIA_CTI
ADS10SG	2008	32	368	44	0.7				74	10	
ADS10SG	2008	48	4164	20	1.0				74	10	
ADS10SG Total		needing			1.8						1655.739
ADS10W	2008	33	607	10	0.1	28	4	5	5841	10	
ADS10W	2008	32	502	10	0.2	26	3	5	2294	10	
ADS10W	2008	32	502	20	0.2	26	3	5	2294	10	
ADS10W	2008	32	514	20	0.5	22	4	4	399	10	
ADS10W	2008	32	504	10	0.2	28	3	4	376	10	
ADS10W	2008	33	24	10	4.4	28	3	4	342	10	
ADS10W	2008	48	4069	10	0.1	22		4	334	10	
ADS10W	2008	48	4018	10	0.7	26	3	4	327	10	
ADS10W	2008	48	4056	10	1.5	26	3	4	315	10	
ADS10W	2008	48	4081	10	0.5	28	3	4	315	10	
ADS10W	2008	48	4089	10	0.1	26		4	315	10	
ADS10W	2008	33	42	60	2.6	26	3	4	294	10	
ADS10W	2008	48	4003	10	1.9	26	3	4	285	10	2286.934
ADS10W	2008	48	4005	10	2.0	26	3	4	285	10	2407.299
ADS10W Total	ADS 10	needing	only road	dway wide	15.0						17213.29
ADS10WG	2008	32	5080	10	0.6	26	3	4	163	10	(
ADS10WG	2008	32	5080	14	0.1	26	3	4	163	10	(
ADS10WG	2008	32	5080	16	0.7	26	3	4	163	10	(
ADS10WG	2008	34	706	10	0.4	28	3	4	74	10	337.9721
ADS10WG	2008	34	703	10	0.5	30	3	4	74	10	422.4651
ADS10WG	2008	34	704	10	0.5	24		4	74	10	422.4651
ADS10WG	2008	35	808	10	0.1	24		4	74	10	57.3943
ADS10WG	2008	35	809	10	0.1	24		4	74	10	57.3943
ADS10WG	2008	48	4043	20	2.2	26	3	4	74	10	1858.847
ADS10WG Total	ADS 10	(FADT 5	(0-250) r	needing or	5.2						3156.538
ADS10SW	2008	36	110	70	0.1	24		4	3610	10	
ADS10SW	2008	36	113	30	0.3	22		4	3432	10	341.2806
ADS10SW	2008	36	108	65	0.4	22		4	2948	10	481.4597
ADS10SW	2008	36	108	10	0.3	22		4	2620	10	361.0948
ADS10SW	2008	36	108	20	0.1	28		4	2620	10	ł
ADS10SW	2008	36	108	25	0.2	28		4	2620	10	124.6076
ADS10SW	2008	36	9202	10	0.3	28	3	4	2517	10	
ADS10SW	2008	36	9202	30	1.0	28	3	4	2517	10	1137.602
ADS10SW	2008	33	221	10	1.8	28	3	4	1818	10	
ADS10SW	2008	33	221	15	2.7	28	3	4	1818	10	ł
ADS10SW	2008	35	133	10	0.2	30	3	4	1795	10	227.5204
ADS10SW	2008	35	133	30	0.2	30	3	4	1795	10	227.5204
ADS10SW	2008	36	157	25	2.2	18		1	1773		2450.921
ADS10SW	2008	35	8078	10	0.6	30		4	1734		682.5612
ADS10SW	2008	32	562	40	1.5	18		1	1675		1673.314
ADS10SW	2008	32	562	10	0.4	26	3	4	1675	10	
ADS10SW	2008	32	562	30	0.1	26	3	4	1675		120.3649
ADS10SW	2008	36	60	35	0.4	22		4	1666	10	
ADS10SW	2008	36	693	10	0.3	28	3	4	1527	10	
ADS10SW	2008	36	157	30	0.5	24	3	4	1497	10	ł
ADS10SW	2008	35	172	20	0.1	30		1	1432	10	
ADS10SW ADS10SW	2008	36	108	30	0.1	18		1	1329		111.5543
ADS10SW	2008	35	65	40	0.7	30	3	4	1276	10	
ADS10SW	2008	36	153	30	0.5	18		4	1244	10	
ADS10SW	2008	36	112	110	0.3	18		1	1221	_	446.2172
ADS10SW ADS10SW	2008	36	112	115	0.4	18		1	1221		557.7715
ADS10SW ADS10SW	2008	36	153	20	5.9	18		1	1135	10	
ADS10SW ADS10SW	2008	36	153	25	2.2	18		1	1135		2450.921
		33	6460	60	0.3	20		1	998	10	
ADS10SW					0.3	∠0	ĺ	1	778	10	
ADS10SW	2008				Λ 5	20		1	002	10	557 007/
ADS10SW	2008	36	113	10	0.5	20		1	992		557.0274
					0.5 0.2 1.6	20 20 28	3	1 4 4	992 849 836	10	557.0274 227.5204 1820.163

	1 1		NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	II .	11
	FISCAL	AGENCY_	ROUTE_ NUMBE	SECTION	SECTION_	ROADWAY_	MSRIS_ SHOULDER	MSRIS_ SURFACE_	MSRISD_	MSRISD_ ADS_NUMBE	MSRISD
NEED 1	YEAR	CODE CODE	R	NUMBER	LENGTH	WIDTH	TYPE_CODE	TYPE_CODE	T_COUNT	R R	BIA_CTI
ADS10SW	2008	35	60	20	1.7	28	3	4	812	10	1933.923
ADS10SW	2008	36	151	10	0.4	26	3	4	809	10	455.0408
ADS10SW	2008	36	151	30	0.4	26	3	4	809	10	455.0408
ADS10SW	2008	36	151	35	0.3	26	3	4	809	10	341.2806
ADS10SW	2008	36	60	60	0.5	20		4	800	10	568.801
ADS10SW	2008	36	60	65	0.1	20		4	800	10	113.7602
ADS10SW	2008	32	8070	30	0.3	24		1	783	10	334.2164
ADS10SW	2008	35	8090	80	0.4	24		1	783	10	445.6219
ADS10SW	2008	35	67	10	0.3	28	3	4	771	10	
ADS10SW	2008	35	67	30	1.7	28	3	4	771	10	
ADS10SW	2008	35	8095	10	0.5	20		1	661	10	
ADS10SW	2008	35	8095	30	0.9	20		1	661	10	
ADS10SW	2008	35	8095	33	1.4	20		1	661	10	
ADS10SW	2008	35	8095	36	1.0	20		1	661	10	
ADS10SW	2008	33	6460	50	1.3	20		1	652	10	
ADS10SW	2008	33	6460	40	0.7	20		3	652	10	
ADS10SW	2008	36	9402	105	0.3	18		1	646		
ADS10SW	2008	36	71.40	10	2.6	20		4	643	10	
ADS10SW ADS10SW	2008 2008	34	7140 5031	10 10	0.8 2.2	22 12		4	600 591	10	
								1		10	
ADS10SW ADS10SW	2008	32	5031 5031	20 30	2.7	10		1	591 591	10	
	2008 2008	32		50	0.1	16		1	591	10	
ADS10SW ADS10SW	2008	34	5031 7057	10	0.1	16 28	2	1 4	532	10	
ADS10SW ADS10SW	2008	34	7057	15	0.3	28	3	4	532	10	
ADS10SW	2008	36	9073	20	0.4	18	3	1	514	10	
ADS10SW	2008	35	673	10	0.1	24		1	512	10	
ADS10SW	2008	35	673	30	1.7	24		1	512	10	
ADS10SW	2008	32	368	20	0.5	15		1	508	10	
ADS10SW	2008	32	364	40	6.9	27		3	508	10	
ADS10SW	2008	32	34	50	3.4	24		3	499	10	
ADS10SW	2008	36	151	40	0.3	26	3	4	484	10	
ADS10SW	2008	48	4095	16	0.8	28	3	4	466	10	
ADS10SW	2008	35	25	60	2.0	26		1	441	10	
ADS10SW	2008	35	25	65	0.7	26		1	441	10	
ADS10SW	2008	36	31	13	1.2	16		9	423	10	1338.652
ADS10SW	2008	35	65	20	0.4	30	3	4	419	10	455.0408
ADS10SW	2008	0	2012	10	0.6	24	3	4	417	10	682.5612
ADS10SW	2008	48	4095	10	0.2	28	3	4	416	10	240.7299
ADS10SW	2008	48	4095	13	2.7	28	3	4	416	10	3249.853
ADS10SW	2008	0	2020	10	1.0	24	3	4	411	10	1137.602
ADS10SW	2008	32	192	20	0.7	13		1	408	10	780.8801
ADS10SW	2008	35	251	80	0.8	22		4	401		910.0816
ADS10SW	2008	36	9501	40	0.9	20		1	398	-	
ADS10SW	2008	33	61	30	2.6	16		1	389		
ADS10SW	2008	34	7119	10	0.7	25		1	368		
ADS10SW	2008	34	7119	15	0.5	25		1	368		557.7715
ADS10SW	2008	36	9402	70	0.2	18		1	331	1	
ADS10SW	2008	36	9402	40	0.2	20		3	331	10	
ADS10SW	2008	36	9402	60	0.1	20		3	331		113.7602
ADS10SW	2008	36	9402	65	0.2	20		3	331	10	
ADS10SW	2008	36	69	45	1.0	21		1	324		1115.543
ADS10SW	2008	36	69	50	3.1	20		1	324		3458.183
ADS10SW	2008	33	2	30	1.6	24		1	313		1782.488
ADS10SW	2008	33	2	40	12.9	24		1	313		
ADS10SW	2008	36	9003	10	13.6	18		1	313		15151.15
ADS10SW	2008	36	9003	15	1.0	18		1	313		
ADS10SW	2008	36	9003	20	9.6	18	_	1	313		10694.93
ADS10SW	2008	33	2	10	0.2	24	2	3	313		
ADS10SW	2008	33	2	20	1.4	24		9	313		1559.677
ADS10SW	2008	36	9003	25	0.7	18		1	287	10	779.8384

	1	1	NEED	1: HIGH	IWAY G	EOMETR	IC DESIG	N DEFIC	ENCIES	1	1
			ROUTE_				MSRIS	MSRIS_	MSRISD_	MSRISD_	
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	SHOULDER_ TYPE_CODE			ADS_NUMBE R	MSRISD_ BIA_CTI
ADS10SW	2008	36	9003	30	1.4	18		1			1559.677
ADS10SW ADS10SW	2008	36	9003	33	1.4	18		1		10	
ADS10SW ADS10SW	2008	36	9003	36	0.4	18		1		10	
ADS10SW	2008	36	9003	40	0.4	18		1		10	
ADS10SW	2008	36	9003	50	0.9	18		1		10	
ADS10SW	2008	35	8092	10	1.1	24		1		10	
ADS10SW	2008	32	5008	10	0.7	18		1		10	
ADS10SW	2008	36	9504	10	0.1	18		1		10	
ADS10SW	2008	36	9504	30	0.1	18		1		10	
ADS10SW	2008	36	9504	35	4.4	18		1		10	
ADS10SW	2008	36	9659	15	1.5	18		1		10	
ADS10SW Total	ADS 10	needing	surface u	ipgrade ai	138.2						153547.8
ADS10SWG	2008	32	369	10	0.2	18		1	249	10	183.971
ADS10SWG	2008	32	8014	10	2.7	16		1	242	10	2497.864
ADS10SWG	2008	32	5002	20	1.7	18		1	198	10	1563.753
ADS10SWG	2008	32	5002	40	1.6	18		1	198	10	1471.768
ADS10SWG	2008	32	5002	60	1.3	18		1	198	10	1195.811
ADS10SWG	2008	32	5002	80	1.7	18		1	198	10	1563.753
ADS10SWG	2008	36	37	20	1.1	18		1	193	10	
ADS10SWG	2008	33	6730	10		24		1		10	
ADS10SWG	2008	33	6730	20	15.0	24		1		10	
ADS10SWG	2008	32	557	10	1.1	20		1	183	10	
ADS10SWG	2008	36	69	30	1.8	21		1	171	10	1655.739
ADS10SWG	2008	36	9066	10	3.7	18		1		10	
ADS10SWG	2008	33	6812	10	4.1	24		1		10	
ADS10SWG	2008	36	9005	10	4.0	18		1		10	
ADS10SWG	2008	32	5080	20	6.8	24		1		10	
ADS10SWG	2008	32	5080	25	7.0	24		1		10	
ADS10SWG	2008	32	5080	30	0.1	24		1		10	
ADS10SWG	2008	32	5080	40	0.3	16		1		10	
ADS10SWG	2008	32	5080	50	0.3	30		1		10	
ADS10SWG	2008 2008	34 32	7128 565	30 10	0.3	18		1		10	
ADS10SWG ADS10SWG	2008	32	5017	10	7.1	16 24		1		10	
ADS10SWG ADS10SWG	2008	33	6820	10	3.2	22		1		10	
ADS10SWG ADS10SWG	2008	33	6820	20	2.2	24		1		10	
ADS10SWG ADS10SWG	2008	33	6820	30	9.4	24		1		10	
ADS10SWG	2008	35	172	40	0.8	30		1		10	
ADS10SWG	2008		172	45	0.2	30		1			
ADS10SWG	2008	36	9652	10		18		1			1103.826
ADS10SWG	2008	36	9652	13	0.8	18		1	1	10	
ADS10SWG	2008	32	8070	15	14.0	18		1		10	
ADS10SWG	2008	32	563	10		16		1			
ADS10SWG	2008	36	9806	10	8.2	18		1		10	
ADS10SWG	2008	32	366	10	0.5	12		1		10	
ADS10SWG	2008	34	7059	10	4.7	20		1	120	10	4323.318
ADS10SWG	2008	34	7059	20	2.7	20		1	120	10	
ADS10SWG	2008	36	9654	10	3.1	16		1	120	10	
ADS10SWG	2008	36	28	10	0.5	22		1	113	10	462.5674
ADS10SWG	2008	32	566	10	0.3	24		1	110	10	275.9565
ADS10SWG	2008	36	9402	100	6.8	18		1		10	6290.917
ADS10SWG	2008	33	6720	10	2.0	24		1	105	10	1850.27
ADS10SWG	2008	32	561	10	0.1	30		1		10	
ADS10SWG	2008	32	5091	20	0.7	20		1		10	
ADS10SWG	2008	36	603	10	7.7	16		1		10	
ADS10SWG	2008	32	5018	10	1.1	19		1		10	
	2000	32	353	10	4.7	14		1	88	10	4348.134
ADS10SWG	2008										
ADS10SWG	2008	32	353	20	2.0	14		1		10	
ADS10SWG ADS10SWG	2008 2008			20 70	2.0 1.8	14 24		1	86	10	93.69
ADS10SWG	2008	32	353	20	2.0 1.8 5.0	14			86	10 10	

ADS10SWG 2008 33 1012 10 0.9 24 1 74 10 832.6213  ADS10SWG 2008 33 6710 20 4.7 24 1 74 10 4348.134  ADS10SWG 2008 33 6710 30 4.5 24 1 74 10 4163.107  ADS10SWG 2008 33 6710 40 3.8 24 1 74 10 3515.512  ADS10SWG 2008 33 6811 10 5.5 24 1 74 10 5088.241  ADS10SWG 2008 33 6811 20 1.8 24 1 74 10 1665.243  ADS10SWG 2008 33 6932 10 1.7 24 1 74 10 1572.729  ADS10SWG 2008 33 6933 10 4.4 24 1 74 10 4070.593			_	NEED	I. HIGE	IVAIG	EOMETR	IC DESIG	N DEFICI	ENCIES	I	1
ADSIGNWG 2008 33 9920 30 3.8 24 1 1 85 10 3515.12 1 3521.03 1 3515.03 1 4 351.03 1 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3	NEED 1		AGENCY_	NUMBE				SHOULDER_	SURFACE_	FUTURE_AD	ADS_NUMBE	_
ADSIGNWG 2008 33 9920 30 3.8 24 1 1 85 10 3515.12 1 3521.03 1 3515.03 1 4 351.03 1 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3	ADS10SWG	2008	33	6920	20	2.1	24		1	85	10	1942.783
ADSIGNWG 2008 35 8085 10 4.9 20 1 80 10 4531.61  ADSIGNWG 2008 36 37 25 0.2 18 1 80 10 5375.78  ADSIGNWG 2008 36 37 45 6.3 18 1 80 10 5795.78  ADSIGNWG 2008 36 9103 10 3.1 18 1 80 10 5795.78  ADSIGNWG 2008 36 9103 10 3.1 18 1 80 10 5795.78  ADSIGNWG 2008 33 990.6 10 2.1 1 16 1 79 10 1942.78  ADSIGNWG 2008 33 9108 10 17.9 24 99 79 10 1955.79  ADSIGNWG 2008 32 118 10 179 24 19 79 79 10 1555.91  ADSIGNWG 2008 32 118 10 179 24 18 174 10 1555.91  ADSIGNWG 2008 32 18 10 10 4.5 20 1 74 10 555.91  ADSIGNWG 2008 32 18 10 0.5 12 1 74 10 555.91  ADSIGNWG 2008 32 158 10 0.8 19 1 74 10 555.91  ADSIGNWG 2008 32 158 10 0.8 19 1 74 10 555.91  ADSIGNWG 2008 32 159 10 0.6 22 1 1 74 10 555.92  ADSIGNWG 2008 32 559 110 0.5 12 1 74 10 555.92  ADSIGNWG 2008 32 5007 13 3.7 22 1 74 10 61.30  ADSIGNWG 2008 32 5007 10 6.7 22 1 74 10 61.30  ADSIGNWG 2008 32 5007 16 1.4 22 1 74 10 61.30  ADSIGNWG 2008 32 5007 16 1.4 22 1 74 10 12.75  ADSIGNWG 2008 32 5007 16 1.4 22 1 74 10 12.75  ADSIGNWG 2008 32 5007 16 1.4 22 1 74 10 12.75  ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 275.956  ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 275.956  ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 275.956  ADSIGNWG 2008 32 5007 10 0.4 12 1 74 10 675.958  ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 275.956  ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 675.958  ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 675.958  ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 675.958  ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 675.958  ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 675.958  ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 675.958  ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 675.958  ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 675.958  ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 675.958  ADSIGNWG 2008 33 6010 0.7 20 1 74 10 675.958  ADSIGNWG 2008 33 600 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												
ADSIGNWG 2008 36 37 25 0.2 18 1 8 1 80 10 1833/T 85 ADSIGNWG 2008 36 9103 10 3.1 18 1 80 10 2867.34 ADSIGNWG 2008 36 9906 10 2.1 16 1 79 10 1655/9.9 ADSIGNWG 2008 33 118 10 17.9 24 9 79 10 1655/9.9 ADSIGNWG 2008 33 118 10 17.9 24 9 79 10 1655/9.9 ADSIGNWG 2008 32 18 10 4.5 20 1 74 10 866/2.67 ADSIGNWG 2008 32 18 10 4.5 20 1 74 10 866/2.67 ADSIGNWG 2008 32 18 10 4.5 20 1 74 10 866/2.67 ADSIGNWG 2008 32 559 10 0.6 22 1 74 10 851/9.9 ADSIGNWG 2008 32 559 10 0.6 22 1 74 10 851/9.9 ADSIGNWG 2008 32 559 10 0.6 22 1 74 10 851/9.3 ADSIGNWG 2008 32 5007 10 6.7 22 1 74 10 851/9.3 ADSIGNWG 2008 32 5007 16 7.4 22 1 74 10 851/9.3 ADSIGNWG 2008 32 5007 16 7.4 22 1 74 10 851/9.3 ADSIGNWG 2008 32 5007 16 7.4 22 1 74 10 851/9.3 ADSIGNWG 2008 32 5007 16 1.4 22 1 74 10 851/9.3 ADSIGNWG 2008 32 5007 16 1.4 22 1 74 10 851/9.3 ADSIGNWG 2008 32 5007 80 3.7 22 1 74 10 841/9.4 ADSIGNWG 2008 32 5007 80 3.7 12 2 1 74 10 841/9.4 ADSIGNWG 2008 32 5007 80 3.3 16 1 74 10 841/9.4 ADSIGNWG 2008 32 5007 80 3.3 16 1 74 10 841/9.4 ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 841/9.4 ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 841/9.4 ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 841/9.4 ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 841/9.4 ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 841/9.4 ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 841/9.4 ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 841/9.4 ADSIGNWG 2008 32 5005 10 4.4 22 1 74 10 841/9.4 ADSIGNWG 2008 32 5005 10 4.4 22 1 74 10 841/9.4 ADSIGNWG 2008 32 5005 10 4.4 22 1 74 10 841/9.4 ADSIGNWG 2008 32 5005 10 4.4 22 1 74 10 845/9.4 ADSIGNWG 2008 32 8009 60 7.4 20 1 74 10 645/9.4 ADSIGNWG 2008 32 8009 60 7.4 20 1 74 10 645/9.4 ADSIGNWG 2008 33 86710 10 2.8 18 18 17 4 10 97.9 ADSIGNWG 2008 33 86710 10 2.8 18 18 17 4 10 97.9 ADSIGNWG 2008 33 86710 10 2.8 18 18 17 4 10 97.9 ADSIGNWG 2008 33 86710 10 3.4 5 24 1 74 10 845/9.4 ADSIGNWG 2008 33 86710 10 3.8 24 1 74 10 845/9.4 ADSIGNWG 2008 33 86710 10 3.4 5 24 1 74 10 845/9.4 ADSIGNWG 2008 33 86710 10 3.4 5 24 1 74 10 845/9.4 ADSIGNWG 2008 33 8675 10 3.4 5 24 1 74 10 947/9.4 ADSIGNWG 200												
ADSIGNWG 2008 36 9103 10 3.1 18 1 80 10 5795.080 ADSIGNWG 2008 36 9103 10 3.1 18 1 80 10 52795.080 ADSIGNWG 2008 33 9506 10 2.1 16 1 79 10 1952.783 ADSIGNWG 2008 33 118 10 17.9 24 9 79 10 16559.91 ADSIGNWG 2008 32 18 10 9.4 18 1 74 10 4655.93 ADSIGNWG 2008 32 18 10 9.4 18 1 74 10 4655.93 ADSIGNWG 2008 32 18 1 10 9.4 18 1 74 10 4655.93 ADSIGNWG 2008 32 558 10 0.8 19 1 74 10 463.05 ADSIGNWG 2008 32 558 10 0.8 19 1 74 10 463.05 ADSIGNWG 2008 32 559 10 0.6 22 1 1 74 10 455.925 ADSIGNWG 2008 32 550 10 0.5 12 1 74 10 6559.93 ADSIGNWG 2008 32 5007 10 6.7 22 1 1 74 10 6153.03 ADSIGNWG 2008 32 5007 10 6.7 22 1 1 74 10 6153.03 ADSIGNWG 2008 32 5007 10 6.7 22 1 1 74 10 6153.03 ADSIGNWG 2008 32 5007 10 6.7 22 1 1 74 10 6153.03 ADSIGNWG 2008 32 5007 16 1.4 22 1 1 74 10 1287.797 ADSIGNWG 2008 32 5007 16 1.4 22 1 1 74 10 1287.797 ADSIGNWG 2008 32 5007 16 1.4 22 1 1 74 10 1287.797 ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 275.9565 ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 275.9565 ADSIGNWG 2008 32 5010 0 0.4 12 1 74 10 275.9565 ADSIGNWG 2008 32 5010 0 0.4 12 1 74 10 275.9565 ADSIGNWG 2008 32 5010 0 0.4 12 1 74 10 275.9565 ADSIGNWG 2008 32 5015 10 0.4 12 1 74 10 275.9565 ADSIGNWG 2008 32 5015 10 0.4 4 12 1 74 10 275.9565 ADSIGNWG 2008 32 5015 10 0.4 42 12 1 74 10 675.9546 ADSIGNWG 2008 32 5015 10 0.4 4 12 1 74 10 675.9546 ADSIGNWG 2008 32 5018 10 0.7 12 1 74 10 675.9546 ADSIGNWG 2008 32 5019 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												
ADSIGNMG 2008 36 9103 10 31 18 1 8 0 10 2867918 ADSIGNMG 2008 36 9606 10 2.1 16 1 79 10 165599 1 10 165599 1 20 18 31 118 10 17.9 24 9 79 10 16559 1 16 25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												
ADSIOSWG 2008 36 9606 10 2.1 16 1 79 10 1942/83 ADSIOSWG 2008 33 118 10 179 24 9 9 79 10 16559 91 ADSIOSWG 2008 32 18 10 94 18 1 1 74 10 8696.267 ADSIOSWG 2008 32 18 10 0.8 19 1 74 10 463.107 ADSIOSWG 2008 32 558 10 0.8 19 1 74 10 473.884 ADSIOSWG 2008 32 559 10 0.6 22 1 74 10 559.937 ADSIOSWG 2008 32 559 10 0.6 22 1 74 10 559.937 ADSIOSWG 2008 32 550 10 0.5 12 1 74 10 6459.9275 ADSIOSWG 2008 32 5007 10 6.7 22 1 74 10 6459.9275 ADSIOSWG 2008 32 5007 10 6.7 22 1 74 10 6450.938 ADSIOSWG 2008 32 5007 10 6.7 22 1 74 10 6463.007 ADSIOSWG 2008 32 5007 16 1.4 22 1 74 10 6463.007 ADSIOSWG 2008 32 5007 16 1.4 22 1 74 10 1287.978 ADSIOSWG 2008 32 5007 16 1.4 22 1 74 10 1287.978 ADSIOSWG 2008 32 5007 60 2.7 10 1 74 10 1287.978 ADSIOSWG 2008 32 5007 60 2.7 10 1 74 10 1287.978 ADSIOSWG 2008 32 5007 80 0.3 16 1 74 10 275.9565 ADSIOSWG 2008 32 5007 80 0.3 16 1 74 10 275.9565 ADSIOSWG 2008 32 5015 10 0.4 12 1 74 10 275.9565 ADSIOSWG 2008 32 5015 10 0.4 12 1 74 10 91.9355 ADSIOSWG 2008 32 5015 10 0.4 12 1 74 10 91.9355 ADSIOSWG 2008 32 5015 10 0.1 15 1 74 10 91.9355 ADSIOSWG 2008 32 5052 10 44 12 1 74 10 91.9355 ADSIOSWG 2008 32 5052 10 44 12 1 74 10 91.9355 ADSIOSWG 2008 32 5052 10 44 12 1 74 10 91.9355 ADSIOSWG 2008 32 5052 10 4 4 12 1 74 10 91.9355 ADSIOSWG 2008 32 5052 10 4 4 12 1 74 10 91.9355 ADSIOSWG 2008 32 5052 10 4 4 12 1 74 10 91.9550 ADSIOSWG 2008 32 5052 10 4 4 12 1 74 10 91.9550 ADSIOSWG 2008 32 5052 10 4 4 12 1 74 10 91.9550 ADSIOSWG 2008 32 5052 10 4 4 12 1 74 10 91.9550 ADSIOSWG 2008 32 5050 ADSIOSWG 2008 32 5050 ADSIOSWG 2008 32 5050 ADSIOSWG 2008 33 6010 3 5 8 20 4 1 74 10 6475.04 ADSIOSWG 2008 33 6010 3 5 8 2 2 4 1 74 10 6475.04 ADSIOSWG 2008 33 6010 3 5 8 2 2 4 1 74 10 6475.04 ADSIOSWG 2008 33 6010 3 5 8 2 2 4 1 74 10 6475.04 ADSIOSWG 2008 33 6010 3 5 8 2 2 4 1 74 10 6475.04 ADSIOSWG 2008 33 6010 3 5 8 2 4 1 1 74 10 6475.04 ADSIOSWG 2008 33 6010 3 5 5 4 16 1 74 10 6475.04 ADSIOSWG 2008 33 6010 3 5 5 4 16 1 74 10 6475.04 ADSIOSWG 2008 33 6010 3 5 5 1 8 1 1 74 1 10 655.51 1 1 74 1 10 675.51 1 1 74 1 10 675.51							_					
ADSIGNMG 2008 33 118 10 179 24 9 79 10 1655997 ADSIGNMG 2008 32 181 10 94 18 1 74 10 4696,267 ADSIGNMG 2008 32 181 10 94 18 1 74 10 4696,267 ADSIGNMG 2008 32 558 10 0.8 19 1 74 10 410 475.80 ADSIGNMG 2008 32 558 10 0.6 22 1 1 74 10 551.913 ADSIGNMG 2008 32 559 10 0.6 22 1 1 74 10 455.90 ADSIGNMG 2008 32 5007 10 6.7 22 1 1 74 10 616.3028 ADSIGNMG 2008 32 5007 10 6.7 22 1 1 74 10 369.302 ADSIGNMG 2008 32 5007 10 6.7 22 1 1 74 10 369.302 ADSIGNMG 2008 32 5007 16 1.4 22 1 1 74 10 369.302 ADSIGNMG 2008 32 5007 16 1.4 22 1 1 74 10 369.302 ADSIGNMG 2008 32 5007 60 1.2 10 1 74 10 369.302 ADSIGNMG 2008 32 5007 60 1.2 10 1 74 10 2483.008 ADSIGNMG 2008 32 5007 80 0.3 16 1 74 10 2483.008 ADSIGNMG 2008 32 5007 80 0.3 16 1 74 10 2483.008 ADSIGNMG 2008 32 5007 80 0.3 16 1 74 10 2483.008 ADSIGNMG 2008 32 5007 80 0.3 16 1 74 10 2483.008 ADSIGNMG 2008 32 5001 10 0.4 12 1 74 10 367.945 ADSIGNMG 2008 32 5001 10 0.4 12 1 74 10 367.945 ADSIGNMG 2008 32 5003 10 7.7 12 1 1 74 10 367.945 ADSIGNMG 2008 32 5033 10 7.7 12 1 1 74 10 407.533 ADSIGNMG 2008 32 5053 10 4.4 12 1 74 10 407.533 ADSIGNMG 2008 32 5053 10 4.4 12 1 74 10 407.533 ADSIGNMG 2008 32 5057 10 4.4 12 1 74 10 407.533 ADSIGNMG 2008 32 5057 10 4.4 12 1 74 10 407.533 ADSIGNMG 2008 32 5057 10 4.4 12 1 74 10 407.533 ADSIGNMG 2008 32 5059 40 0.7 20 1 1 74 10 407.533 ADSIGNMG 2008 32 5059 40 0.7 20 1 1 74 10 407.533 ADSIGNMG 2008 32 8009 40 0.7 20 1 1 74 10 407.533 ADSIGNMG 2008 33 8009 40 0.7 20 1 1 74 10 407.533 ADSIGNMG 2008 33 8009 40 0.7 20 1 1 74 10 407.533 ADSIGNMG 2008 33 8009 40 0.7 20 1 1 74 10 407.533 ADSIGNMG 2008 33 8009 40 0.7 20 1 1 74 10 407.533 ADSIGNMG 2008 33 8009 40 0.7 20 1 1 74 10 407.533 ADSIGNMG 2008 33 8009 40 0.7 20 1 1 74 10 407.533 ADSIGNMG 2008 33 8009 40 0.7 20 1 1 74 10 407.533 ADSIGNMG 2008 33 8009 40 0.7 20 1 1 74 10 407.533 ADSIGNMG 2008 33 8009 40 0.7 20 1 1 74 10 407.533 ADSIGNMG 2008 33 8009 40 0.7 20 1 1 74 10 407.533 ADSIGNMG 2008 33 8009 40 0.7 20 1 1 74 10 407.540 ADSIGNMG 2008 33 8009 40 0.7 20 1 1 74 10 407.540 ADSIGNMG 2008 33 8009 40 0.7												
ADSIGNWG 2008 32 18 10 9.4 18 1 74 10 8696267 ADSIGNWG 2008 32 181 10 4.5 20 1 74 10 4163.107 ADSIGNWG 2008 32 181 10 4.5 20 1 74 10 4163.107 ADSIGNWG 2008 32 558 10 0.6 22 1 74 10 455.884 ADSIGNWG 2008 32 559 10 0.6 22 1 74 10 459.9275 ADSIGNWG 2008 32 564 10 0.5 12 1 74 10 6459.9275 ADSIGNWG 2008 32 5007 10 6.7 22 1 74 10 645.007 ADSIGNWG 2008 32 5007 10 6.7 22 1 74 10 6463.007 ADSIGNWG 2008 32 5007 10 6.7 22 1 74 10 6463.008 ADSIGNWG 2008 32 5007 10 6.7 22 1 74 10 6463.008 ADSIGNWG 2008 32 5007 16 1.4 22 1 74 10 6463.008 ADSIGNWG 2008 32 5007 16 1.4 22 1 74 10 10 183.008 ADSIGNWG 2008 32 5007 60 2.7 10 1 74 10 2483.008 ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 2483.008 ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 275.956 ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 275.956 ADSIGNWG 2008 32 5007 80 0.3 16 1 74 10 275.956 ADSIGNWG 2008 32 5015 10 0.4 12 1 74 10 275.956 ADSIGNWG 2008 32 5015 10 0.4 12 1 74 10 975.956 ADSIGNWG 2008 32 5015 10 0.4 12 1 74 10 975.956 ADSIGNWG 2008 32 5015 10 0.4 12 1 74 10 970.593 ADSIGNWG 2008 32 5053 10 4.4 12 1 74 10 970.593 ADSIGNWG 2008 32 5053 10 4.4 12 1 74 10 970.593 ADSIGNWG 2008 32 5057 10 4.4 12 1 74 10 970.593 ADSIGNWG 2008 32 8009 40 0.7 20 1 74 10 970.593 ADSIGNWG 2008 32 8009 60 7.4 20 1 74 10 970.593 ADSIGNWG 2008 32 8009 60 7.4 20 1 74 10 975.904 ADSIGNWG 2008 32 8009 60 7.4 20 1 74 10 975.904 ADSIGNWG 2008 33 1012 10 0.9 24 1 74 10 975.904 ADSIGNWG 2008 33 1012 10 0.9 24 1 74 10 975.904 ADSIGNWG 2008 33 1012 10 0.9 24 1 74 10 975.904 ADSIGNWG 2008 33 1012 10 0.9 24 1 74 10 975.904 ADSIGNWG 2008 33 1012 10 0.9 24 1 74 10 975.904 ADSIGNWG 2008 33 6710 20 4.7 24 1 74 10 975.904 ADSIGNWG 2008 33 6710 20 4.7 24 1 74 10 975.904 ADSIGNWG 2008 33 6710 20 4.7 24 1 1 74 10 975.904 ADSIGNWG 2008 33 6710 20 4.7 24 1 1 74 10 975.904 ADSIGNWG 2008 33 6710 20 4.7 24 1 1 74 10 975.904 ADSIGNWG 2008 33 6710 20 4.7 24 1 1 74 10 975.904 ADSIGNWG 2008 33 6710 20 4.7 24 1 1 74 10 975.904 ADSIGNWG 2008 33 6710 20 4.7 24 1 1 74 10 975.904 ADSIGNWG 2008 33 6710 20 4.7 24 1 1 74 10 975.904 ADSIGNWG												
ADSIOSWG 2008 32 181 10 4.5 20 1 74 10 4163.07 375.884 ADSIOSWG 2008 32 558 10 0.8 19 1 74 10 735.884 ADSIOSWG 2008 32 559 10 0.6 22 1 1 74 10 655.073 ADSIOSWG 2008 32 5507 10 0.5 12 1 74 10 665.028 ADSIOSWG 2008 32 5007 10 6.7 22 1 1 74 10 665.028 ADSIOSWG 2008 32 5007 10 6.7 22 1 1 74 10 665.028 ADSIOSWG 2008 32 5007 13 3.7 22 1 1 74 10 665.028 ADSIOSWG 2008 32 5007 16 1.4 22 1 74 10 3403.465 ADSIOSWG 2008 32 5007 66 1.4 22 1 74 10 3403.465 ADSIOSWG 2008 32 5007 66 1.4 22 1 74 10 3403.465 ADSIOSWG 2008 32 5007 60 2.7 10 1 1 74 10 287.975 ADSIOSWG 2008 32 5007 60 2.7 10 1 1 74 10 287.975 ADSIOSWG 2008 32 5007 80 0.3 16 1 74 10 275.9565 ADSIOSWG 2008 32 5001 10 0.1 15 1 74 10 275.9565 ADSIOSWG 2008 32 5011 10 0.4 12 1 1 74 10 275.9565 ADSIOSWG 2008 32 5011 10 0.4 12 1 1 74 10 367.942 ADSIOSWG 2008 32 5011 10 0.1 15 1 74 10 367.942 ADSIOSWG 2008 32 5011 10 0.1 15 1 74 10 367.942 ADSIOSWG 2008 32 5053 10 7.7 12 1 74 10 707.939 ADSIOSWG 2008 32 5057 10 4.4 12 1 74 10 4070.593 ADSIOSWG 2008 32 5057 10 4.4 12 1 74 10 4070.593 ADSIOSWG 2008 32 5057 10 4.4 12 1 74 10 4070.593 ADSIOSWG 2008 32 8009 40 0.7 20 1 1 74 10 4070.593 ADSIOSWG 2008 32 8009 60 7.4 20 1 1 74 10 6675.594 ADSIOSWG 2008 32 8009 60 7.4 20 1 1 74 10 6675.594 ADSIOSWG 2008 32 8009 60 7.4 20 1 1 74 10 2590.377 ADSIOSWG 2008 33 8009 40 0.7 20 1 1 74 10 2590.377 ADSIOSWG 2008 33 8009 40 0.7 20 1 1 74 10 2590.377 ADSIOSWG 2008 33 8009 40 0.7 20 1 1 74 10 2590.377 ADSIOSWG 2008 33 8009 40 0.7 20 1 1 74 10 2590.377 ADSIOSWG 2008 33 8009 40 0.7 20 1 1 74 10 2590.377 ADSIOSWG 2008 33 8009 40 0.7 20 1 1 74 10 2590.377 ADSIOSWG 2008 33 8009 40 0.7 20 1 1 74 10 2590.377 ADSIOSWG 2008 33 8009 40 0.7 20 1 1 74 10 2590.377 ADSIOSWG 2008 33 8009 40 0.7 20 1 1 74 10 2590.377 ADSIOSWG 2008 33 8009 40 0.7 20 1 1 74 10 20 4000.593 ADSIOSWG 2008 33 8009 40 0.7 20 1 1 74 10 20 4000.593 ADSIOSWG 2008 33 8009 40 0.7 20 1 1 74 10 20 4000.593 ADSIOSWG 2008 33 8009 40 0.7 20 4 1 1 74 10 20 4000.593 ADSIOSWG 2008 33 8009 40 0.7 20 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									_			
ADSIOSWG 2008 32 558 10 0.8 19 1 74 10 735.884 ADSIOSWG 2008 32 559 10 0.6 22 1 1 74 10 551.913 ADSIOSWG 2008 32 564 10 0.5 12 1 74 10 459.275 ADSIOSWG 2008 32 5007 10 6.7 22 1 1 74 10 6165.028 ADSIOSWG 2008 33 5007 10 6.7 22 1 1 74 10 6165.028 ADSIOSWG 2008 33 5007 16 1.4 22 1 1 74 10 1827.975 ADSIOSWG 2008 32 5007 16 1.4 22 1 1 74 10 1287.975 ADSIOSWG 2008 32 5007 60 2.7 10 1 1 74 10 1287.975 ADSIOSWG 2008 32 5007 80 0.3 16 1 74 10 1287.975 ADSIOSWG 2008 32 5007 80 0.3 16 1 74 10 1287.975 ADSIOSWG 2008 32 5007 80 0.3 16 1 74 10 1285.955 ADSIOSWG 2008 32 5015 10 0.0 1 15 1 74 10 1285.955 ADSIOSWG 2008 32 5015 10 0.0 1 15 1 74 10 197.955 ADSIOSWG 2008 32 5015 10 0.0 1 15 1 74 10 197.955 ADSIOSWG 2008 32 5015 10 0.0 1 15 1 74 10 197.955 ADSIOSWG 2008 32 5015 10 0.0 1 15 1 74 10 197.955 ADSIOSWG 2008 32 5052 10 4.4 12 1 74 10 4070.593 ADSIOSWG 2008 32 5052 10 4.4 12 1 1 74 10 4070.593 ADSIOSWG 2008 32 5052 10 4.4 12 1 1 74 10 4070.593 ADSIOSWG 2008 32 5055 10 4.4 12 1 1 74 10 4070.593 ADSIOSWG 2008 32 8009 40 0.7 20 1 1 74 10 4070.593 ADSIOSWG 2008 32 8009 40 0.7 20 1 1 74 10 647.594 ADSIOSWG 2008 32 8009 60 7.4 20 1 1 74 10 647.594 ADSIOSWG 2008 32 8009 60 7.4 20 1 1 74 10 645.594 ADSIOSWG 2008 33 8081 10 5 8 22 1 1 74 10 645.598 ADSIOSWG 2008 33 8081 10 5 8 22 1 1 74 10 836.5782 ADSIOSWG 2008 33 8081 10 5 8 22 1 1 74 10 836.5782 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 836.5782 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 836.5782 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 195.55.782 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 195.55.782 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 195.55.782 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 1467.0771.132 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 1467.079.973 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 1467.079.973 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 1467.079.973 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 1467.079.973 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 1467.079.973 ADSIOSWG 2008 33 6933 10 4 4 8 22 1 1 74 10 195.55.512 ADSIOSWG 2008 33 6933 10 4 4 8 22 1 1 74 10 195.												
ADS10SWG 2008 32 559 10 0 0.6 22 1 1 74 10 555.913 ADS10SWG 2008 32 5007 10 6.7 22 1 1 74 10 6163.028 ADS10SWG 2008 32 5007 10 6.7 22 1 74 10 6163.028 ADS10SWG 2008 33 5007 16 1.4 22 1 74 10 303.463 ADS10SWG 2008 33 5007 16 1.4 22 1 74 10 303.663 ADS10SWG 2008 32 5007 60 2.7 10 1 74 10 2483.608 ADS10SWG 2008 33 5007 80 0.3 16 1 74 10 2483.608 ADS10SWG 2008 32 5007 80 0.3 16 1 74 10 2483.608 ADS10SWG 2008 33 5011 10 0 0.4 12 1 74 10 3657.942 ADS10SWG 2008 33 5011 10 0 0.4 12 1 74 10 367.942 ADS10SWG 2008 32 5012 10 7.7 12 1 74 10 367.942 ADS10SWG 2008 32 5052 10 4.4 12 1 74 10 74 10 7123.538 ADS10SWG 2008 33 5052 10 4.4 12 1 74 10 7123.538 ADS10SWG 2008 32 5052 10 4.4 12 1 74 10 74 10 7123.538 ADS10SWG 2008 32 5052 10 4.4 12 1 74 10 74 10 74 75.538 ADS10SWG 2008 32 5052 10 4.4 12 1 74 10 74 10 74 75.538 ADS10SWG 2008 32 5052 10 4.4 12 1 74 10 74 10 77.53.538 ADS10SWG 2008 32 5052 10 4.4 12 1 74 10 74 10 77.53.538 ADS10SWG 2008 32 5052 10 4.4 12 1 74 10 74 10 77.53.538 ADS10SWG 2008 32 5052 10 4.4 12 1 74 10 74 10 77.53.538 ADS10SWG 2008 32 8009 40 0.7 20 1 74 10 645.5948 ADS10SWG 2008 32 8009 40 0.7 20 1 74 10 645.5948 ADS10SWG 2008 32 8009 40 0.7 20 1 74 10 645.5948 ADS10SWG 2008 33 8070 10 2.8 18 1 74 10 655.93.77 ADS10SWG 2008 33 8070 10 2.8 18 1 74 10 77.11.32 ADS10SWG 2008 33 8070 10 2.8 18 1 74 10 77.11.32 ADS10SWG 2008 33 6710 30 4.5 24 1 74 10 74 10 825.6213 ADS10SWG 2008 33 6710 30 4.5 24 1 74 10 74 10 825.6213 ADS10SWG 2008 33 6710 30 4.5 24 1 74 10 74 10 835.5223 ADS10SWG 2008 33 6710 30 4.5 24 1 74 10 4463.107 ADS10SWG 2008 33 6710 30 4.5 24 1 74 10 4463.107 ADS10SWG 2008 33 6710 30 4.5 24 1 74 10 174.8187 ADS10SWG 2008 33 6710 30 4.5 24 1 74 10 174.8187 ADS10SWG 2008 33 6710 30 4.5 24 1 74 10 174.8187 ADS10SWG 2008 33 6710 30 4.5 24 1 74 10 174.8187 ADS10SWG 2008 33 673 10 4 4 22 1 1 74 10 1463.007 ADS10SWG 2008 33 6710 30 4.5 24 1 1 74 10 175.8187 ADS10SWG 2008 33 673 10 4 4 22 1 1 74 10 1463.007 ADS10SWG 2008 36 6935 10 1 4 4 24 1 1 74 10 1463.007 ADS10SWG 2008 36 6935 10 1 4 4 2 2 1 1 1 74 1 10 1												
ADSIOSWG 2008 32 564 10 0 0.5 12 1 74 10 459 9275 ADSIOSWG 2008 32 5007 10 6.7 22 1 1 74 10 615 03.028 ADSIOSWG 2008 32 5007 13 3.7 22 1 1 74 10 10 1827.975 ADSIOSWG 2008 32 5007 16 1.4 22 1 1 74 10 1287.975 ADSIOSWG 2008 32 5007 60 2.7 10 0 1 1 74 10 1287.975 ADSIOSWG 2008 32 5007 80 0.3 16 1 1 74 10 1287.975 ADSIOSWG 2008 32 5007 80 0.3 16 1 1 74 10 1285.956 ADSIOSWG 2008 32 5007 80 0.3 16 1 1 74 10 1285.956 ADSIOSWG 2008 32 5015 10 0.4 12 1 1 74 10 1285.956 ADSIOSWG 2008 32 5015 10 0.1 15 1 1 74 10 1978.558 ADSIOSWG 2008 32 5015 10 0.1 15 1 1 74 10 1978.558 ADSIOSWG 2008 32 5023 10 4.4 12 1 1 74 10 1725.538 ADSIOSWG 2008 32 5057 10 4.4 12 1 1 74 10 1725.538 ADSIOSWG 2008 32 5057 10 4.4 12 1 1 74 10 10 4070.593 ADSIOSWG 2008 32 8009 40 0.7 20 1 1 74 10 10 4070.593 ADSIOSWG 2008 32 8009 40 0.7 20 1 1 74 10 10 4070.593 ADSIOSWG 2008 32 8009 60 7.4 20 1 1 74 10 647.594 ADSIOSWG 2008 32 8009 60 7.4 20 1 1 74 10 647.594 ADSIOSWG 2008 32 8009 60 7.4 20 1 1 74 10 647.594 ADSIOSWG 2008 32 8081 10 5.8 22 1 1 74 10 648.598 ADSIOSWG 2008 32 8081 10 5.8 22 1 1 74 10 688.598 ADSIOSWG 2008 33 8009 60 7.4 20 1 1 74 10 688.598 ADSIOSWG 2008 33 8050 40 0.7 20 1 1 74 10 688.598 ADSIOSWG 2008 33 8081 10 5.8 22 1 1 74 10 688.598 ADSIOSWG 2008 33 8081 10 5.8 22 1 1 74 10 5365.782 ADSIOSWG 2008 33 8081 10 5.8 22 1 1 74 10 5365.782 ADSIOSWG 2008 33 6811 10 1.2 8 4 4 1 1 74 10 74 10 683.243 ADSIOSWG 2008 33 6811 10 10 0.9 24 1 1 74 10 74 10 683.243 ADSIOSWG 2008 33 6811 10 5.5 24 1 1 74 10 643.598 ADSIOSWG 2008 33 6811 10 5.5 24 1 1 74 10 645.574 ADSIOSWG 2008 33 6811 10 5.5 24 1 1 74 10 645.574 ADSIOSWG 2008 33 6811 10 5.5 24 1 1 74 10 165.551 ADSIOSWG 2008 33 6811 10 5.5 24 1 1 74 10 174 10 165.551 ADSIOSWG 2008 33 6811 20 1 1.8 24 1 1 74 10 174 10 165.551 ADSIOSWG 2008 33 6811 10 5.5 24 1 1 74 10 174 10 165.551 ADSIOSWG 2008 33 6932 10 1 1.7 24 1 1 74 1 10 174 10 165.551 ADSIOSWG 2008 33 6932 10 1 1.7 24 1 1 74 1 10 174 10 165.551 ADSIOSWG 2008 33 6932 10 1 1.7 24 1 1 74 1 10 183.55 ADSIOSWG 2008 33 6932 10 1 1.7 24 1 1 1 74 1 10												
ADS10SWG 2008 32 5007 10 6.7 22 1 1 74 10 6163.028 ADS10SWG 2008 32 5007 13 3.7 22 1 74 10 6163.028 ADS10SWG 2008 32 5007 16 1.4 22 1 74 10 1287.797 ADS10SWG 2008 32 5007 60 2.7 10 1 74 10 2885.608 ADS10SWG 2008 32 5007 80 0.3 16 1 74 10 2885.608 ADS10SWG 2008 32 5011 10 0.4 12 1 74 10 369.7942 ADS10SWG 2008 32 5011 10 0.4 12 1 74 10 369.7942 ADS10SWG 2008 32 5011 10 0.4 12 1 74 10 369.942 ADS10SWG 2008 32 5011 10 0.4 12 1 74 10 1282.538 ADS10SWG 2008 32 5023 10 7.7 12 1 74 10 74 10 1282.538 ADS10SWG 2008 32 5052 10 4.4 12 1 74 10 4070.5393 ADS10SWG 2008 32 5052 10 4.4 12 1 74 10 4070.5393 ADS10SWG 2008 32 5052 10 4.4 12 1 74 10 4070.5393 ADS10SWG 2008 32 5052 10 4.4 12 1 74 10 4070.5393 ADS10SWG 2008 32 5052 10 4.4 12 1 74 10 4070.5393 ADS10SWG 2008 32 5052 10 4.4 12 1 1 74 10 4070.5393 ADS10SWG 2008 32 5005 40 0.7 20 1 1 74 10 6845.998 ADS10SWG 2008 32 8009 60 7.4 20 1 1 74 10 6845.998 ADS10SWG 2008 32 8070 10 2.8 18 1 74 10 2590.377 ADS10SWG 2008 33 8070 10 2.8 18 1 74 10 2590.377 ADS10SWG 2008 33 8070 10 2.8 18 1 74 10 2590.377 ADS10SWG 2008 33 1012 10 0.9 24 1 1 74 10 771.132 ADS10SWG 2008 33 6710 30 4.7 24 1 1 74 10 474.10 1365.107 ADS10SWG 2008 33 6710 30 4.7 24 1 1 74 10 474.10 1365.107 ADS10SWG 2008 33 6710 40 3.8 24 1 1 74 10 4465.107 ADS10SWG 2008 33 6710 40 3.8 24 1 1 74 10 4465.107 ADS10SWG 2008 33 6710 40 3.8 24 1 1 74 10 4465.107 ADS10SWG 2008 33 6710 40 3.8 24 1 1 74 10 4670.593 ADS10SWG 2008 33 6710 10 1.7 24 1 1 74 10 4670.593 ADS10SWG 2008 33 6710 10 3.7 24 1 1 74 10 4466.107 ADS10SWG 2008 33 6710 10 3.7 24 1 1 74 1 10 474.10 1572.729 ADS10SWG 2008 33 6710 10 3.7 24 1 1 74 1 10 474.10 1572.729 ADS10SWG 2008 33 6710 10 3.7 24 1 1 74 1 10 4466.107 ADS10SWG 2008 33 6710 10 3.7 24 1 1 74 1 10 4466.107 ADS10SWG 2008 33 6710 10 3.7 16 1 1 74 1 10 165.307 ADS10SWG 2008 33 6710 10 3.7 16 1 1 74 1 10 174.10 174.10 175.2729 ADS10SWG 2008 33 6710 10 3.7 16 1 1 74 1 10 174.10 175.817 ADS10SWG 2008 33 6710 10 3.7 16 1 1 74 1 10 174.10 175.817 ADS10SWG 2008 36 9952 10 2.0 18 1 1 74 1 10 1103.826 ADS10SWG 2												
ADSIOSWG 2008 32 5007 13 3.7 22 1 1 74 10 3403.463 ADSIOSWG 2008 32 5007 16 1.4 22 1 1 74 10 1287.797 ADSIOSWG 2008 32 5007 60 2.7 10 1 1 74 10 2483.608 ADSIOSWG 2008 32 5007 80 0.3 16 1 1 74 10 275.956.94 ADSIOSWG 2008 32 5011 10 0.4 12 1 1 74 10 375.956.94 ADSIOSWG 2008 32 5011 10 0.4 12 1 1 74 10 375.956.94 ADSIOSWG 2008 32 5011 10 0.4 12 1 1 74 10 375.956.94 ADSIOSWG 2008 32 5013 10 7.7 12 1 1 74 10 74 10 19.9855 ADSIOSWG 2008 32 5032 10 7.7 12 1 1 74 10 74 10 19.9855 ADSIOSWG 2008 32 5052 10 4.4 12 1 1 74 10 10 4070.593 ADSIOSWG 2008 32 5052 10 4.4 12 1 1 74 10 4070.593 ADSIOSWG 2008 32 5057 10 4.4 12 1 1 74 10 4070.593 ADSIOSWG 2008 32 5057 10 4.4 22 1 1 74 10 4070.593 ADSIOSWG 2008 32 8009 40 0.7 20 1 1 74 10 6475.994 ADSIOSWG 2008 32 8009 60 7.4 20 1 1 74 10 6475.994 ADSIOSWG 2008 32 8009 60 7.4 20 1 1 74 10 6475.994 ADSIOSWG 2008 32 8009 10 2.8 18 1 1 74 10 5485.998 ADSIOSWG 2008 33 8070 10 2.8 18 1 1 74 10 2599.74 ADSIOSWG 2008 33 1012 10 0.9 24 1 1 74 10 8365.782 ADSIOSWG 2008 33 1012 10 0.9 24 1 1 74 10 4348.134 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 4348.134 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 4348.134 ADSIOSWG 2008 33 6811 10 5.5 24 1 1 74 10 4348.134 ADSIOSWG 2008 33 6811 10 5.5 24 1 1 74 10 4348.134 ADSIOSWG 2008 33 6811 10 5.5 24 1 1 74 10 1456.243 ADSIOSWG 2008 33 6811 10 5.5 24 1 1 74 10 1456.243 ADSIOSWG 2008 33 6631 10 1.7 24 1 1 74 10 1456.243 ADSIOSWG 2008 33 6631 10 1.7 24 1 1 74 10 1456.243 ADSIOSWG 2008 33 6631 10 1.7 24 1 1 74 10 1456.243 ADSIOSWG 2008 33 6631 10 3.7 24 1 1 74 10 1456.243 ADSIOSWG 2008 33 6631 10 3.7 24 1 1 74 10 1456.244 ADSIOSWG 2008 33 6631 10 3.7 24 1 1 74 10 1456.243 ADSIOSWG 2008 33 6631 10 3.7 24 1 1 74 10 1456.243 ADSIOSWG 2008 33 6631 20 3.8 22 1 1 1 74 10 1456.243 ADSIOSWG 2008 33 6633 10 3.7 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												
ADSIOSWG 2008 32 5007 60 2.7 10 1 74 10 1287.797 ADSIOSWG 2008 32 5007 80 0.3 16 1 74 10 1287.797 ADSIOSWG 2008 32 5007 80 0.3 16 1 74 10 2483.608 ADSIOSWG 2008 32 5015 10 0.4 12 1 74 10 367.942 ADSIOSWG 2008 32 5015 10 0.1 15 1 74 10 1367.942 ADSIOSWG 2008 32 5015 10 0.1 15 1 74 10 197.538 ADSIOSWG 2008 32 5015 10 0.1 15 1 74 10 197.538 ADSIOSWG 2008 32 5052 10 4.4 12 1 74 10 197.538 ADSIOSWG 2008 32 5052 10 4.4 12 1 74 10 197.538 ADSIOSWG 2008 32 5052 10 4.4 12 1 74 10 197.538 ADSIOSWG 2008 32 5057 10 4.4 22 1 1 74 10 4070.593 ADSIOSWG 2008 32 5007 10 4.4 22 1 1 74 10 6470.593 ADSIOSWG 2008 32 8009 60 7.4 20 1 1 74 10 647.594 ADSIOSWG 2008 32 8009 60 7.4 20 1 1 74 10 6459.948 ADSIOSWG 2008 32 8009 60 7.4 20 1 1 74 10 6859.948 ADSIOSWG 2008 32 8009 60 7.4 20 1 1 74 10 6859.948 ADSIOSWG 2008 32 8009 60 7.4 20 1 1 74 10 6859.948 ADSIOSWG 2008 32 8081 10 5.8 22 1 1 74 10 6859.348 ADSIOSWG 2008 33 8081 10 5.8 22 1 1 74 10 832.6213 ADSIOSWG 2008 33 1012 10 0.9 24 1 1 74 10 771.132 ADSIOSWG 2008 33 6710 20 4.7 24 1 1 74 10 4381.34 ADSIOSWG 2008 33 6710 20 4.7 24 1 1 74 10 4381.34 ADSIOSWG 2008 33 6710 20 4.7 24 1 1 74 10 4381.34 ADSIOSWG 2008 33 6710 20 4.7 24 1 1 74 10 4381.34 ADSIOSWG 2008 33 6811 10 5.5 24 1 1 74 10 10 5705.24 ADSIOSWG 2008 33 6811 10 5.5 24 1 1 74 10 4463.107 ADSIOSWG 2008 33 6811 10 5.5 24 1 1 74 10 4463.07 ADSIOSWG 2008 33 6811 20 1.8 24 1 1 74 10 4460.47 ADSIOSWG 2008 33 6033 10 4 4 22 1 1 74 10 4070.593 ADSIOSWG 2008 33 6033 10 4 4 22 1 1 74 10 4460.47 ADSIOSWG 2008 33 6033 10 4 4 2 2 1 1 74 10 4070.593 ADSIOSWG 2008 33 6033 10 3 8 4 5 2 4 1 1 74 10 4625.674 ADSIOSWG 2008 33 6033 10 4 4 8 22 1 1 74 10 4070.593 ADSIOSWG 2008 33 6033 10 4 4 9 10 4 4 5 9 200 1 1 74 10 10 4070.593 ADSIOSWG 2008 33 6033 10 4 4 9 10 4 4 9 4 9 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1												
ADSIOSWG 2008 32 5007 60 2.7 10 1 74 10 2483.608 ADSIOSWG 2008 32 5011 10 0.4 12 1 74 10 275.956 ADSIOSWG 2008 32 5011 10 0.4 12 1 74 10 375.956 ADSIOSWG 2008 32 5011 10 0.1 15 1 74 10 367.942 ADSIOSWG 2008 32 5015 10 0.1 15 1 74 10 376.942 ADSIOSWG 2008 32 5015 10 0.1 15 1 74 10 376.942 ADSIOSWG 2008 32 5023 10 7.7 12 1 1 74 10 4070.593 ADSIOSWG 2008 32 5052 10 4.4 12 1 1 74 10 4070.593 ADSIOSWG 2008 32 5057 10 4.4 12 1 1 74 10 4070.593 ADSIOSWG 2008 32 5057 10 4.4 12 1 1 74 10 4070.593 ADSIOSWG 2008 32 8009 40 0.7 20 1 1 74 10 647.594 ADSIOSWG 2008 32 8009 60 7.4 20 1 1 74 10 647.594 ADSIOSWG 2008 32 8009 60 7.4 20 1 1 74 10 645.994 ADSIOSWG 2008 32 8000 60 7.4 20 1 1 74 10 645.994 ADSIOSWG 2008 32 8000 80 10 2.8 18 1 1 74 10 2590.377 ADSIOSWG 2008 33 1012 10 0.9 24 1 1 74 10 5365.782 ADSIOSWG 2008 33 1012 10 0.9 24 1 1 74 10 832.6213 ADSIOSWG 2008 33 1012 10 0.9 24 1 1 74 10 832.6213 ADSIOSWG 2008 33 6710 20 4.7 24 1 1 74 10 4348.134 ADSIOSWG 2008 33 6710 20 4.7 24 1 1 74 10 4348.134 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 14348.134 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 1655.243 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 1655.243 ADSIOSWG 2008 33 6631 10 5.5 24 1 1 74 10 1655.243 ADSIOSWG 2008 33 6631 0 1.7 24 1 1 74 10 1655.243 ADSIOSWG 2008 33 6631 0 1.7 24 1 1 74 10 1655.243 ADSIOSWG 2008 33 6631 0 1.7 24 1 1 74 10 1655.243 ADSIOSWG 2008 33 6633 10 1.8 24 1 1 74 10 1655.243 ADSIOSWG 2008 33 6633 10 1.7 24 1 1 74 10 1459.545 ADSIOSWG 2008 33 6632 10 1.7 24 1 1 74 10 1459.545 ADSIOSWG 2008 33 6632 10 1.7 24 1 1 74 10 1459.545 ADSIOSWG 2008 33 6693 10 1.7 24 1 1 74 10 1459.545 ADSIOSWG 2008 33 6693 10 1.7 24 1 1 74 10 1459.545 ADSIOSWG 2008 33 6693 10 1.7 24 1 1 74 10 1459.545 ADSIOSWG 2008 33 6693 10 1.7 24 1 1 74 10 1459.545 ADSIOSWG 2008 33 6693 10 1.7 24 1 1 74 10 1459.55 ADSIOSWG 2008 33 6693 10 1.7 24 1 1 74 10 1459.55 ADSIOSWG 2008 33 6693 10 1.7 24 1 1 74 10 1459.55 ADSIOSWG 2008 33 6693 10 1.7 24 1 1 74 10 1459.55 ADSIOSWG 2008 34 6652 40 3.2 20 1 1 74 10 1459.55 ADSIOSWG 2008 36 6952 10 0.5 1												
ADSIOSWG 2008 32 5007 80 0.3 16 1 74 10 275.9565 ADSIOSWG 2008 32 5015 10 0.4 12 1 74 10 367.942 ADSIOSWG 2008 32 5015 10 0.1 15 1 74 10 91.9855 ADSIOSWG 2008 32 5023 10 7.7 12 1 1 74 10 712.538 ADSIOSWG 2008 32 5052 10 4.4 12 1 74 10 712.538 ADSIOSWG 2008 32 5052 10 4.4 12 1 74 10 7070.593 ADSIOSWG 2008 32 5052 10 4.4 12 1 74 10 7070.593 ADSIOSWG 2008 32 5057 10 4.4 22 1 74 10 4070.593 ADSIOSWG 2008 32 8009 40 0.7 20 1 74 10 647.5944 ADSIOSWG 2008 32 8009 10 2.8 18 1 74 10 647.5944 ADSIOSWG 2008 32 8009 10 2.8 18 1 74 10 5865.598 ADSIOSWG 2008 32 8009 10 2.8 18 1 74 10 5865.598 ADSIOSWG 2008 33 8009 10 2.8 18 1 74 10 5865.782 ADSIOSWG 2008 33 8009 10 5.8 22 1 74 10 5865.782 ADSIOSWG 2008 33 8011 10 5.8 22 1 74 10 5865.782 ADSIOSWG 2008 33 6710 20 4.7 24 1 74 10 8256.6782 ADSIOSWG 2008 33 6710 20 4.7 24 1 74 10 8256.678 ADSIOSWG 2008 33 6710 30 4.5 24 1 74 10 4163.107 ADSIOSWG 2008 33 6710 40 3.8 24 1 74 10 4163.107 ADSIOSWG 2008 33 6710 40 3.8 24 1 74 10 4163.107 ADSIOSWG 2008 33 6811 10 5.5 24 1 74 10 10 5805.782 ADSIOSWG 2008 33 6811 10 5.5 24 1 74 10 10 5815.212 ADSIOSWG 2008 33 6811 10 5.5 24 1 74 10 10 5805.414 ADSIOSWG 2008 33 6811 10 5.5 24 1 74 10 10 650.243 ADSIOSWG 2008 33 6811 10 5.5 24 1 74 10 10 650.243 ADSIOSWG 2008 33 6811 10 5.5 24 1 74 10 10 650.243 ADSIOSWG 2008 33 6932 10 1.7 24 1 74 10 10 665.243 ADSIOSWG 2008 33 6932 10 1.7 24 1 74 10 10 665.243 ADSIOSWG 2008 33 6033 10 4.4 24 1 74 10 10 665.243 ADSIOSWG 2008 33 6033 10 4.8 22 1 1 74 10 10 665.243 ADSIOSWG 2008 33 6033 10 4.8 22 1 1 74 10 10 665.243 ADSIOSWG 2008 33 6030 10 5.1 1 74 10 4070.593 ADSIOSWG 2008 33 6030 10 5.1 1 74 10 4070.593 ADSIOSWG 2008 33 6030 10 5.1 1 74 10 4070.593 ADSIOSWG 2008 33 6030 10 5.1 1 74 10 4070.593 ADSIOSWG 2008 33 6030 10 5.4 16 1 74 10 4070.593 ADSIOSWG 2008 33 6030 10 5.4 16 1 74 10 4070.593 ADSIOSWG 2008 33 6030 10 5.1 1 74 10 4070.593 ADSIOSWG 2008 36 6952 30 5.4 16 1 74 10 10 365.5376 ADSIOSWG 2008 36 6952 30 5.4 16 1 74 10 10 365.5376 ADSIOSWG 2008 36 9652 10 5.5 16 1 74 10 10 385.5376 ADSIOSWG 2008 3					_							
ADSIOSWG 2008 32 5011 10 0.4 12 1 74 10 367942 ADSIOSWG 2008 32 5015 10 0.1 15 1 74 10 91.9855 ADSIOSWG 2008 32 5023 10 7.7 12 1 74 10 7123.538 ADSIOSWG 2008 32 5052 10 4.4 12 1 74 10 4070.593 ADSIOSWG 2008 32 5057 10 4.4 12 1 74 10 4070.593 ADSIOSWG 2008 32 5057 10 4.4 12 1 74 10 4070.593 ADSIOSWG 2008 32 5057 10 4.4 22 1 74 10 4070.593 ADSIOSWG 2008 32 8009 40 0.7 20 1 74 10 647.5944 ADSIOSWG 2008 32 8009 60 7.4 20 1 74 10 647.5944 ADSIOSWG 2008 32 8009 10 2.8 18 1 74 10 590.377 ADSIOSWG 2008 32 8007 10 2.8 18 1 74 10 590.377 ADSIOSWG 2008 32 8070 10 2.8 18 1 74 10 5505.342 ADSIOSWG 2008 33 28 8081 10 5.8 22 1 74 10 4070.593 ADSIOSWG 2008 33 215 20 8.4 30 1 74 10 777.1.132 ADSIOSWG 2008 33 1012 10 0.9 24 1 74 10 832.6213 ADSIOSWG 2008 33 6710 20 4.7 24 1 74 10 4348.134 ADSIOSWG 2008 33 6710 30 4.5 24 1 74 10 4348.134 ADSIOSWG 2008 33 6710 40 3.8 24 1 74 10 4348.134 ADSIOSWG 2008 33 6811 10 5.5 24 1 74 10 4163.107 ADSIOSWG 2008 33 6811 10 5.5 24 1 74 10 4163.107 ADSIOSWG 2008 33 6811 10 5.5 24 1 74 10 4163.107 ADSIOSWG 2008 33 6811 10 5.5 24 1 74 10 4163.07 ADSIOSWG 2008 33 6811 10 5.5 24 1 74 10 450.505 ADSIOSWG 2008 33 6811 10 5.5 24 1 74 10 450.505 ADSIOSWG 2008 33 6811 10 5.5 24 1 74 10 450.505 ADSIOSWG 2008 33 6811 20 1.8 24 1 74 10 4070.593 ADSIOSWG 2008 33 6811 20 1.8 24 1 74 10 4070.593 ADSIOSWG 2008 33 6811 20 1.8 24 1 74 10 4070.593 ADSIOSWG 2008 33 6811 20 1.8 24 1 74 10 4070.593 ADSIOSWG 2008 33 6933 10 4.4 24 1 74 10 4070.593 ADSIOSWG 2008 33 6933 10 4.4 24 1 74 10 4070.593 ADSIOSWG 2008 33 6932 10 1.7 24 1 1 74 10 4070.593 ADSIOSWG 2008 33 6933 10 3.8 22 1 1 74 10 4070.593 ADSIOSWG 2008 33 6933 10 4.4 24 1 74 10 4070.593 ADSIOSWG 2008 33 6933 10 4.4 24 1 74 10 4070.593 ADSIOSWG 2008 33 6933 10 4.4 24 1 74 10 4070.593 ADSIOSWG 2008 33 6933 10 4.4 24 1 74 10 4070.593 ADSIOSWG 2008 33 6933 10 4.4 24 1 74 10 4070.593 ADSIOSWG 2008 33 6933 10 4.4 24 1 74 10 4070.593 ADSIOSWG 2008 33 6933 10 4.4 24 1 74 10 4070.593 ADSIOSWG 2008 33 6933 10 4.4 24 1 74 10 4070.593 ADSIOSWG 2008 33 6933 10 6 6 6 7 7 8 8												
ADS10SWG 2008 32 5015 10 0.1 15 1 74 10 91.9855 ADS10SWG 2008 32 5023 10 7.7 12 1 1 74 10 7123.538 ADS10SWG 2008 32 5052 10 4.4 12 1 74 10 4070.593 ADS10SWG 2008 32 5057 10 4.4 22 1 1 74 10 4070.593 ADS10SWG 2008 32 8009 40 0.7 20 1 74 10 647.5944 ADS10SWG 2008 32 8009 40 0.7 20 1 74 10 647.5944 ADS10SWG 2008 32 8009 40 0.7 20 1 74 10 647.5944 ADS10SWG 2008 32 8009 60 7.4 20 1 74 10 665.598 ADS10SWG 2008 32 8009 10 2.8 18 1 74 10 2590.377 ADS10SWG 2008 33 8081 10 5.8 22 1 74 10 5865.782 ADS10SWG 2008 33 8011 10 5.8 22 1 74 10 5865.782 ADS10SWG 2008 33 1012 10 0.9 14 1 74 10 832.6213 ADS10SWG 2008 33 1012 10 0.9 9 4 1 1 74 10 832.6213 ADS10SWG 2008 33 6710 20 4.7 24 1 74 10 832.6213 ADS10SWG 2008 33 6710 30 4.5 24 1 1 74 10 4463.107 ADS10SWG 2008 33 6710 40 3.8 24 1 1 74 10 4463.107 ADS10SWG 2008 33 6811 10 5.5 24 1 1 74 10 5088.241 ADS10SWG 2008 33 6811 10 5.5 24 1 1 74 10 10 5088.241 ADS10SWG 2008 33 6811 10 5.5 24 1 1 74 10 10 5088.24 ADS10SWG 2008 33 6811 10 5.5 24 1 1 74 10 10 5088.24 ADS10SWG 2008 33 6831 10 1.7 24 1 1 74 10 10 5088.24 ADS10SWG 2008 33 6933 10 4.4 24 1 1 74 10 10 5088.24 ADS10SWG 2008 33 6933 10 4.4 24 1 1 74 10 10 4070.593 ADS10SWG 2008 33 6033 10 4.8 22 1 1 74 10 4070.593 ADS10SWG 2008 33 6033 10 4.8 22 1 1 74 10 4070.593 ADS10SWG 2008 33 6033 10 4.8 22 1 1 74 10 4070.593 ADS10SWG 2008 33 6033 10 4.4 24 1 1 74 10 4070.593 ADS10SWG 2008 33 6033 10 3 4.5 22 1 1 74 10 4070.593 ADS10SWG 2008 33 6033 10 3 4.8 22 1 1 74 10 4070.593 ADS10SWG 2008 33 6033 10 3 4.8 22 1 1 74 10 4070.593 ADS10SWG 2008 33 6033 10 3 4.8 22 1 1 74 10 4070.593 ADS10SWG 2008 33 6033 10 3 4.8 22 1 1 74 10 4070.593 ADS10SWG 2008 33 6033 10 4.4 24 1 74 10 4070.593 ADS10SWG 2008 33 6033 10 4.8 22 1 1 74 10 4070.593 ADS10SWG 2008 33 6033 10 4.8 22 1 1 74 10 4070.593 ADS10SWG 2008 33 6033 10 4 4 8 22 1 1 74 10 4070.593 ADS10SWG 2008 36 6952 40 3.2 20 1 1 74 10 4070.593 ADS10SWG 2008 36 6952 40 3.2 20 1 1 74 10 4070.593 ADS10SWG 2008 36 6952 10 5.5 18 1 1 74 10 4070.593 ADS10SWG 2008 36 9552 10 5.5 18 1 1 74 10 4070.593 ADS10							_					
ADSIOSWG 2008 32 5023 10 7,7 12 1 74 10 7123.538 ADSIOSWG 2008 32 5057 10 4.4 12 1 74 10 4070.593 ADSIOSWG 2008 32 5057 10 4.4 22 1 1 74 10 4070.593 ADSIOSWG 2008 32 5057 10 4.4 22 1 1 74 10 4070.593 ADSIOSWG 2008 32 8009 40 0.7 20 1 74 10 647.5944 ADSIOSWG 2008 32 8009 60 7.4 20 1 74 10 647.5944 ADSIOSWG 2008 32 8009 60 7.4 20 1 74 10 647.5944 ADSIOSWG 2008 32 8009 60 7.4 20 1 74 10 585.5782 ADSIOSWG 2008 32 8009 60 7.4 20 1 74 10 585.5782 ADSIOSWG 2008 32 8081 10 5.8 22 1 1 74 10 5565.782 ADSIOSWG 2008 33 215 20 8.4 30 1 74 10 7771.132 ADSIOSWG 2008 33 1012 10 0.9 24 1 1 74 10 438.134 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 4463.107 ADSIOSWG 2008 33 6710 30 4.5 24 1 1 74 10 4463.107 ADSIOSWG 2008 33 6710 40 3.8 24 1 1 74 10 4463.107 ADSIOSWG 2008 33 6811 10 5.5 24 1 1 74 10 5185.512 ADSIOSWG 2008 33 6811 10 5.5 24 1 1 74 10 5088.241 ADSIOSWG 2008 33 6811 10 5.5 24 1 1 74 10 5088.241 ADSIOSWG 2008 33 6811 10 5.5 24 1 1 74 10 1665.243 ADSIOSWG 2008 33 683 1 10 1 1.7 24 1 1 74 10 1655.243 ADSIOSWG 2008 33 6831 10 1 5.5 24 1 1 74 10 1655.243 ADSIOSWG 2008 33 6831 10 4.4 24 1 1 74 10 1655.243 ADSIOSWG 2008 33 6932 10 1.7 24 1 1 74 10 177.77.279 ADSIOSWG 2008 33 6033 10 4.4 24 1 1 74 10 1655.243 ADSIOSWG 2008 33 6033 10 4.4 22 1 1 74 10 4070.593 ADSIOSWG 2008 33 6033 10 4.4 22 1 1 74 10 4070.593 ADSIOSWG 2008 33 6033 10 4.4 22 1 1 74 10 4070.593 ADSIOSWG 2008 33 6033 20 3.8 22 1 1 74 10 4070.593 ADSIOSWG 2008 33 6033 20 3.8 22 1 1 74 10 410.647 ADSIOSWG 2008 33 6033 10 4.4 22 1 1 74 10 178.187 ADSIOSWG 2008 33 6033 10 4.4 22 1 1 74 10 178.187 ADSIOSWG 2008 33 6033 10 4.4 22 1 1 74 10 178.187 ADSIOSWG 2008 33 6033 20 3.8 22 1 1 74 10 410.581 ADSIOSWG 2008 33 6033 10 4.8 22 1 1 74 10 178.187 ADSIOSWG 2008 33 6033 10 4.4 22 1 1 74 10 178.187 ADSIOSWG 2008 33 6033 10 4.8 22 1 1 74 10 178.187 ADSIOSWG 2008 36 6952 20 20 1 1 74 10 179.882.14 ADSIOSWG 2008 36 6952 30 5.4 6 6 1 1 74 10 179.882.14 ADSIOSWG 2008 36 9652 10 5.5 18 9 9 74 10 1103.876 ADSIOSWG 2008 36 9652 10 5.0 4 8 9 9 74 10 1103.876 ADSIOSWG 2008 32 5007 4												
ADS10SWG 2008 32 5052 10 4.4 12 1 74 10 4070.593 ADS10SWG 2008 32 5057 10 4.4 22 1 1 74 10 4070.593 ADS10SWG 2008 32 8009 40 0.7 20 1 74 10 647.594 ADS10SWG 2008 32 8009 40 0.7 20 1 74 10 647.594 ADS10SWG 2008 32 8009 60 7.4 20 1 74 10 648.598 ADS10SWG 2008 32 8070 10 2.8 118 1 74 10 5567.582 ADS10SWG 2008 32 8081 10 5.8 22 1 74 10 5567.582 ADS10SWG 2008 33 215 20 8.4 30 1 74 10 7771.132 ADS10SWG 2008 33 1012 10 0.9 24 1 74 10 7771.132 ADS10SWG 2008 33 1012 10 0.9 24 1 74 10 4348.134 ADS10SWG 2008 33 6710 20 4.7 24 1 74 10 4348.134 ADS10SWG 2008 33 6710 30 4.5 24 1 74 10 4163.107 ADS10SWG 2008 33 6710 40 3.8 24 1 74 10 4163.107 ADS10SWG 2008 33 6811 10 5.5 24 1 74 10 4163.107 ADS10SWG 2008 33 6811 10 5.5 24 1 74 10 10 5088.241 ADS10SWG 2008 33 6811 10 5.5 5 24 1 74 10 1655.243 ADS10SWG 2008 33 6811 10 5.5 5 24 1 74 10 1655.243 ADS10SWG 2008 33 6811 20 1.8 24 1 74 10 1655.243 ADS10SWG 2008 33 6933 10 4.4 24 1 74 10 1652.243 ADS10SWG 2008 33 6933 10 4.4 24 1 74 10 1652.243 ADS10SWG 2008 33 6933 10 5.7 24 1 74 10 4070.593 ADS10SWG 2008 33 6033 10 5.7 24 1 74 10 470.593 ADS10SWG 2008 33 6033 10 5.7 24 1 74 10 470.593 ADS10SWG 2008 33 6033 10 5.7 24 1 74 10 470.593 ADS10SWG 2008 33 6033 10 5.7 24 1 74 10 470.593 ADS10SWG 2008 33 6033 10 5.7 24 1 74 10 470.593 ADS10SWG 2008 33 6033 10 5.7 24 1 74 10 470.593 ADS10SWG 2008 33 6033 10 5.1 24 1 74 10 4718.187 ADS10SWG 2008 33 6033 10 5.1 24 1 74 10 4718.187 ADS10SWG 2008 33 6033 10 3.2 20 1 74 10 4718.187 ADS10SWG 2008 34 6952 40 3.2 20 1 74 10 4718.187 ADS10SWG 2008 36 6952 20 2.0 18 1 74 10 1058.264 ADS10SWG 2008 36 6952 20 2.0 18 1 74 10 1058.264 ADS10SWG 2008 36 6952 20 2.0 18 1 74 10 1058.264 ADS10SWG 2008 36 6952 20 2.0 18 1 74 10 1058.264 ADS10SWG 2008 36 6952 20 2.0 18 1 74 10 1058.264 ADS10SWG 2008 36 6955 20 2.0 18 1 74 10 1058.264 ADS10SWG 2008 36 6955 10 2.4 16 1 74 10 1058.264 ADS10SWG 2008 36 6955 10 2.4 16 1 74 10 1059.37 ADS10SWG 2008 36 6955 10 2.4 16 1 74 10 1059.37 ADS10SWG 2008 36 6955 10 2.4 16 1 74 10 1059.37 ADS10SWG 2008 32 5007 20 4.3 8 9 9 74 10							-					
ADSIOSWG 2008 32 5057 10 4.4 22 1 1 74 10 4070.593 ADSIOSWG 2008 32 8009 60 7.4 20 1 74 10 647.5944 ADSIOSWG 2008 32 8009 60 7.4 20 1 74 10 647.5944 ADSIOSWG 2008 32 8009 60 7.4 20 1 74 10 645.5948 ADSIOSWG 2008 32 8070 10 2.8 18 1 74 10 5565.782 ADSIOSWG 2008 32 8070 10 2.8 18 1 74 10 5565.782 ADSIOSWG 2008 33 215 20 8.4 30 1 74 10 7771.132 ADSIOSWG 2008 33 1012 10 0.9 24 1 74 10 832.6213 ADSIOSWG 2008 33 6710 30 4.5 24 1 74 10 4463.107 ADSIOSWG 2008 33 6710 30 4.5 24 1 74 10 4463.107 ADSIOSWG 2008 33 6710 40 3.8 24 1 74 10 4463.107 ADSIOSWG 2008 33 6811 10 5.5 5 24 1 74 10 5585.512 ADSIOSWG 2008 33 6811 10 5.5 5 24 1 74 10 5588.241 ADSIOSWG 2008 33 6811 10 5.5 5 24 1 74 10 5588.241 ADSIOSWG 2008 33 6811 20 1.8 24 1 74 10 1655.243 ADSIOSWG 2008 33 6811 20 1.8 24 1 74 10 1656.243 ADSIOSWG 2008 33 6811 20 1.8 24 1 74 10 1656.243 ADSIOSWG 2008 33 6811 20 1.8 24 1 74 10 1656.243 ADSIOSWG 2008 33 6811 20 1.8 24 1 74 10 1656.243 ADSIOSWG 2008 33 6831 20 1.8 24 1 74 10 1656.243 ADSIOSWG 2008 33 6932 10 1.7 24 1 74 10 470.593 ADSIOSWG 2008 33 6933 10 4.4 24 1 74 10 470.593 ADSIOSWG 2008 33 6933 10 4.4 24 1 74 10 470.593 ADSIOSWG 2008 33 6033 10 4.8 22 1 1 74 10 470.593 ADSIOSWG 2008 33 6710 10 5.0 16 1 74 10 471.515 ADSIOSWG 2008 33 6710 10 5.1 24 1 74 10 471.515 ADSIOSWG 2008 33 6710 10 5.1 24 1 74 10 471.515 ADSIOSWG 2008 33 6710 10 5.1 24 1 74 10 471.515 ADSIOSWG 2008 33 6710 10 5.1 24 1 74 10 471.515 ADSIOSWG 2008 36 6952 10 5.1 24 1 74 10 174 10 175.826 ADSIOSWG 2008 36 6952 10 5.1 24 1 74 10 174 10 175.826 ADSIOSWG 2008 36 6952 10 5.1 24 1 74 10 174 10 175.826 ADSIOSWG 2008 36 6952 10 5.1 3 1 74 10 174 10 175.826 ADSIOSWG 2008 36 9652 10 5.5 18 1 74 10 174 10 175.826 ADSIOSWG 2008 36 9652 10 5.5 18 1 74 10 110.826 ADSIOSWG 2008 36 9858 10 2.3 16 1 74 10 110.826 ADSIOSWG 2008 36 9858 10 2.3 16 1 74 10 110.826 ADSIOSWG 2008 36 9858 10 2.3 16 1 74 10 110.826 ADSIOSWG 2008 36 9858 10 2.3 16 1 74 10 110.826 ADSIOSWG 2008 36 9858 10 2.3 16 1 74 10 110.826 ADSIOSWG 2008 36 9858 10 2.3 16 1 74 10 110.826 ADSIOSWG 2008 3												
ADSIOSWG 2008 32 8009 40 0.7 20 1 74 10 647.5944 ADSIOSWG 2008 32 8009 60 7.4 20 1 74 10 6845.998 ADSIOSWG 2008 32 8070 10 2.8 18 1 74 10 5599.377 ADSIOSWG 2008 32 8070 10 2.8 18 1 74 10 5599.377 ADSIOSWG 2008 32 8081 10 5.8 22 1 74 10 5365.782 ADSIOSWG 2008 33 1012 10 0.9 24 1 74 10 832.6213 ADSIOSWG 2008 33 1012 10 0.9 24 1 74 10 4348.134 ADSIOSWG 2008 33 6710 20 4.7 24 1 74 10 4348.134 ADSIOSWG 2008 33 6710 40 3.8 24 1 74 10 4163.107 ADSIOSWG 2008 33 6710 40 3.8 24 1 74 10 4163.107 ADSIOSWG 2008 33 6710 40 3.8 24 1 74 10 5085.241 ADSIOSWG 2008 33 6811 10 5.5 24 1 74 10 5088.241 ADSIOSWG 2008 33 6811 10 5.5 24 1 74 10 5088.241 ADSIOSWG 2008 33 6811 10 5.5 24 1 74 10 5088.241 ADSIOSWG 2008 33 6932 10 1.7 24 1 74 10 10 655.243 ADSIOSWG 2008 33 6933 10 4.4 24 1 74 10 10 655.243 ADSIOSWG 2008 33 6933 10 4.4 24 1 74 10 4070.593 ADSIOSWG 2008 33 6933 10 4.4 24 1 74 10 4070.593 ADSIOSWG 2008 33 6033 10 4.8 22 1 1 74 10 4070.593 ADSIOSWG 2008 33 6033 10 4.8 22 1 1 74 10 4070.593 ADSIOSWG 2008 33 6033 10 5.0 16 1 74 10 4070.593 ADSIOSWG 2008 33 6033 10 5.0 16 1 74 10 4070.593 ADSIOSWG 2008 33 6033 10 5.0 16 1 74 10 4070.593 ADSIOSWG 2008 33 6033 10 5.1 20 1.7 24 1 74 10 4070.593 ADSIOSWG 2008 33 6033 10 5.3 20 2.3 8 22 1 74 10 3515.512 ADSIOSWG 2008 36 69 35 1.3 20 1.7 14 10 440.647 ADSIOSWG 2008 36 69 35 1.3 20 1.7 14 10 440.647 ADSIOSWG 2008 36 69 35 1.3 20 1.7 14 10 440.647 ADSIOSWG 2008 36 69 35 1.3 21 1 74 10 10 493.536 ADSIOSWG 2008 36 69 55 1.3 21 1 74 10 10 10.342.999 ADSIOSWG 2008 36 69 55 1.3 21 1 74 10 10.342.999 ADSIOSWG 2008 36 69 55 1.0 5.5 16 1 74 10 10.342.999 ADSIOSWG 2008 36 69 55 1.0 5.5 18 1 74 10 10.352.536 ADSIOSWG 2008 36 69 55 1.0 5.5 18 1 74 10 10.3826 ADSIOSWG 2008 36 69 55 10 5.5 18 1 74 10 10.3826 ADSIOSWG 2008 36 69 55 10 5.0 18 9 74 10 10.352.536 ADSIOSWG 2008 36 6952 20 2.0 18 1 74 10 10.352.5376 ADSIOSWG 2008 36 6952 30 5.4 16 1 74 10 10.352.5376 ADSIOSWG 2008 36 6952 30 5.4 16 1 74 10 10.352.5376 ADSIOSWG 2008 36 6955 10 5.5 18 9 74 10 10.352.5376 ADSIOSWG 2008 36 6957 10 5.5 18 9 74 1					_							
ADS10SWG 2008 32 8009 60 7.4 20 1 74 10 6845.998 ADS10SWG 2008 32 8070 10 2.8 18 1 74 10 2590.377 ADS10SWG 2008 32 8081 10 5.8 22 1 74 10 5565.782 ADS10SWG 2008 33 8081 10 5.8 22 1 74 10 7771.132 ADS10SWG 2008 33 1012 10 0.9 24 1 74 10 832.6213 ADS10SWG 2008 33 6710 20 4.7 24 1 74 10 4362.133 ADS10SWG 2008 33 6710 30 4.5 24 1 74 10 4163.107 ADS10SWG 2008 33 6710 30 4.5 24 1 74 10 3515.512 ADS10SWG 2008 33 6710 1 5.5 24 1 74 10 3515.512 ADS10SWG 2008 33 6710 1 5.5 24 1 74 10 10 1665.243 ADS10SWG 2008 33 6811 10 5.5 24 1 74 10 10 1665.243 ADS10SWG 2008 33 6811 10 5.5 24 1 74 10 1665.243 ADS10SWG 2008 33 6811 10 5.5 24 1 74 10 1665.243 ADS10SWG 2008 33 6811 10 5.5 24 1 74 10 1665.243 ADS10SWG 2008 33 6811 10 5.5 24 1 74 10 1665.243 ADS10SWG 2008 33 6811 20 1.8 24 1 74 10 1665.243 ADS10SWG 2008 33 6932 10 1.7 24 1 74 10 14070.593 ADS10SWG 2008 33 6933 10 4.4 24 1 74 10 14070.593 ADS10SWG 2008 33 6933 10 4.4 24 1 74 10 14070.593 ADS10SWG 2008 33 6033 20 3.8 22 1 1 74 10 4410.647 ADS10SWG 2008 33 6033 20 3.8 22 1 1 74 10 4410.647 ADS10SWG 2008 33 6033 20 3.8 22 1 1 74 10 4410.647 ADS10SWG 2008 33 6033 20 3.8 22 1 1 74 10 3515.512 ADS10SWG 2008 33 6033 20 3.8 22 1 1 74 10 3515.512 ADS10SWG 2008 34 9652 40 3.2 20 1 1 74 10 10 1938.51 ADS10SWG 2008 36 69 35 1.3 21 1 74 10 1103.826 ADS10SWG 2008 36 69 35 1.3 21 1 74 10 1103.826 ADS10SWG 2008 36 69 35 1.3 21 1 74 10 1103.826 ADS10SWG 2008 36 9652 10 5.5 18 1 74 10 1103.826 ADS10SWG 2008 36 9652 30 5.4 16 1 74 10 172.68.84 ADS10SWG 2008 36 9652 30 5.4 16 1 74 10 172.68.84 ADS10SWG 2008 36 9858 10 2.3 16 1 74 10 172.20.324 ADS10SWG 2008 36 9858 10 2.3 16 1 74 10 10 172.78.1 ADS10SWG 2008 36 9858 10 2.3 16 1 74 10 1103.826 ADS10SWG 2008 36 9858 10 2.3 16 1 74 10 1103.826 ADS10SWG 2008 36 9858 10 2.3 16 1 74 10 10 172.78.1 ADS10SWG 2008 36 9858 10 2.3 16 1 74 10 1103.826 ADS10SWG 2008 36 9858 10 2.3 16 1 74 10 1103.826 ADS10SWG 2008 36 9858 10 2.3 16 1 74 10 1103.826 ADS10SWG 2008 36 9859 10 5.0 18 9 9 74 10 1439.347 ADS10SWG 2008 36 9859 10 5.0 18 9 9 74 10 1439.347 ADS10SWG												
ADS10SWG 2008 32 8070 10 2.8 18 1 74 10 2590.377 ADS10SWG 2008 32 8081 10 5.8 22 1 74 10 5365.782 ADS10SWG 2008 33 215 20 8.4 30 1 74 10 5365.782 ADS10SWG 2008 33 1012 10 0.9 24 1 74 10 832.6213 ADS10SWG 2008 33 6710 20 4.7 24 1 74 10 4348.134 ADS10SWG 2008 33 6710 40 3.8 24 1 74 10 4463.193 ADS10SWG 2008 33 6710 40 3.8 24 1 74 10 4163.107 ADS10SWG 2008 33 6710 40 3.8 24 1 74 10 5088.241 ADS10SWG 2008 33 6811 10 5.5 24 1 74 10 5088.241 ADS10SWG 2008 33 6811 10 5.5 24 1 74 10 1655.243 ADS10SWG 2008 33 6811 10 5.5 24 1 74 10 1655.243 ADS10SWG 2008 33 6811 10 5.5 24 1 74 10 1655.243 ADS10SWG 2008 33 6932 10 1.7 24 1 74 10 1655.243 ADS10SWG 2008 33 6933 10 4.4 24 1 74 10 4070.593 ADS10SWG 2008 33 6933 10 4.4 24 1 74 10 4070.593 ADS10SWG 2008 33 6033 10 4.8 22 1 74 10 4406.657 ADS10SWG 2008 33 6033 10 4.8 22 1 74 10 4406.657 ADS10SWG 2008 33 6033 10 4.8 22 1 74 10 4406.657 ADS10SWG 2008 33 6033 10 5.8 22 1 74 10 4406.657 ADS10SWG 2008 33 6033 10 5.8 22 1 74 10 4406.657 ADS10SWG 2008 33 6033 10 5.8 22 1 74 10 440.667 ADS10SWG 2008 33 6033 10 5.1 48 22 1 74 10 440.667 ADS10SWG 2008 33 6033 10 5.1 48 22 1 74 10 440.667 ADS10SWG 2008 33 6033 10 5.1 48 22 1 74 10 440.667 ADS10SWG 2008 33 6033 10 5.1 48 22 1 74 10 440.667 ADS10SWG 2008 33 6033 10 5.1 48 22 1 74 10 440.665.674 ADS10SWG 2008 34 6652 40 3.2 20 1 74 10 2945.536 ADS10SWG 2008 36 69 35 1.3 21 1 74 10 1103.826 ADS10SWG 2008 36 69 35 1.3 21 1 74 10 1726.854 ADS10SWG 2008 36 69 35 1.3 21 1 74 10 1726.854 ADS10SWG 2008 36 9652 20 2.0 18 1 74 10 726.854 ADS10SWG 2008 36 9858 10 2.1 16 1 74 10 220.324 ADS10SWG 2008 36 9858 10 2.2 18 1 74 10 418.187 ADS10SWG 2008 36 9858 10 2.3 16 1 74 10 6113.376 ADS10SWG 2008 36 9858 10 2.4 16 1 74 10 6113.376 ADS10SWG 2008 36 9858 10 2.4 16 1 74 10 1139.826 ADS10SWG 2008 36 9858 10 2.4 16 1 74 10 419.395.376 ADS10SWG 2008 36 9858 10 2.4 16 1 74 10 1139.826 ADS10SWG 2008 36 9858 10 2.4 16 1 74 10 1139.826 ADS10SWG 2008 36 9858 10 2.4 16 1 74 10 1139.826 ADS10SWG 2008 36 9858 10 2.4 16 1 74 10 1139.826 ADS10SWG 2008 32 5007 30 4.5 8												
ADS10SWG 2008 32 8081 10 5.8 22 1 1 74 10 5365.782 ADS10SWG 2008 33 1012 10 0.9 24 1 1 74 10 832.6213 ADS10SWG 2008 33 1012 10 0.9 24 1 1 74 10 832.6213 ADS10SWG 2008 33 6710 20 4.7 24 1 1 74 10 4463.107 ADS10SWG 2008 33 6710 30 4.5 24 1 1 74 10 4163.107 ADS10SWG 2008 33 6710 40 3.8 24 1 1 74 10 5515.512 ADS10SWG 2008 33 6710 40 3.8 24 1 1 74 10 5088.241 ADS10SWG 2008 33 6710 10 5.5 24 1 1 74 10 5088.241 ADS10SWG 2008 33 6811 10 5.5 24 1 1 74 10 5088.241 ADS10SWG 2008 33 6811 10 5.5 24 1 1 74 10 1665.243 ADS10SWG 2008 33 6811 20 1.8 24 1 1 74 10 1665.243 ADS10SWG 2008 33 6932 10 1.7 24 1 1 74 10 1572.729 ADS10SWG 2008 33 6932 10 1.7 24 1 1 74 10 1652.434 ADS10SWG 2008 33 6932 10 1.7 24 1 1 74 10 1652.434 ADS10SWG 2008 33 6932 10 1.7 24 1 1 74 10 14070.593 ADS10SWG 2008 33 6033 10 4.4 24 1 1 74 10 4625.674 ADS10SWG 2008 33 6033 10 4.8 22 1 1 74 10 440.647 ADS10SWG 2008 33 6033 10 4.8 22 1 1 74 10 440.647 ADS10SWG 2008 33 6710 1 0 5.0 16 1 74 10 4625.674 ADS10SWG 2008 33 6710 1 0 5.0 16 1 74 10 4525.674 ADS10SWG 2008 33 6710 1 0 5.1 24 1 1 74 10 4718.187 ADS10SWG 2008 33 6710 10 5.1 24 1 1 74 10 4718.187 ADS10SWG 2008 34 6952 40 3.2 20 1 1 74 10 243.536 ADS10SWG 2008 36 69 35 1.3 21 1 74 10 1103.826 ADS10SWG 2008 36 69 35 1.3 21 1 74 10 1103.826 ADS10SWG 2008 36 69 35 1.3 21 1 74 10 1103.826 ADS10SWG 2008 36 6952 20 1.2 18 1 1 74 10 1103.826 ADS10SWG 2008 36 6952 20 1.2 18 1 1 74 10 1105.8824 ADS10SWG 2008 36 9652 16 7.9 18 1 74 10 246.834 ADS10SWG 2008 36 9652 10 5.5 18 1 1 74 10 4967.217 ADS10SWG 2008 36 9858 10 2.2 18 1 1 74 10 4967.217 ADS10SWG 2008 36 9858 10 2.2 18 1 74 10 4001.339.7 ADS10SWG 2008 36 9858 10 2.2 16 1 79 18 1 1 74 10 4967.217 ADS10SWG 2008 36 9858 10 2.2 18 1 1 74 10 4139.347 ADS10SWG 2008 36 9858 10 2.2 18 1 1 74 10 4139.347 ADS10SWG 2008 36 9858 10 2.2 18 1 1 74 10 4139.347 ADS10SWG 2008 36 9859 10 1.2 16 1 1 74 10 4139.347 ADS10SWG 2008 36 9859 10 2.4 16 1 1 74 10 4139.347 ADS10SWG 2008 37 5007 40 1.2 8 9 9 74 10 4139.347 ADS10SWG 2008 32 5007 40 1.2 8 9 9 74 10 4139.347 ADS10SWG 2008 32	ADS10SWG		32	8009					1	-	10	
ADS10SWG	ADS10SWG		32	8070	10	2.8	18		1	74	10	2590.377
ADSIOSWG   2008   33   1012   10   0.9   24   1   74   10   832.6213	ADS10SWG	2008	32	8081	10	5.8	22		1	74	10	5365.782
ADS10SWG	ADS10SWG	2008	33	215	20	8.4	30		1	74	10	7771.132
ADSIOSWG   2008   33   6710   30   4.5   24   1   74   10   4163.107	ADS10SWG	2008	33	1012	10	0.9	24		1	74	10	832.6213
ADSIOSWG   2008   33   6710   40   3.8   24   1   74   10   3515.512	ADS10SWG	2008	33	6710	20	4.7	24		1	74	10	4348.134
ADSIOSWG   2008   33   6811   10   5.5   24   1   74   10   5088.241	ADS10SWG	2008	33	6710	30	4.5	24		1	74	10	4163.107
ADSIOSWG   2008   33   6811   20   1.8   24   1   74   10   1665.243	ADS10SWG	2008	33	6710	40	3.8	24		1	74	10	3515.512
ADSIOSWG   2008   33   6932   10   1.7   24   1   74   10   1572.729	ADS10SWG	2008	33	6811	10	5.5	24		1	74	10	5088.241
ADS10SWG 2008 33 6933 10 4.4 24 1 74 10 4070.593 ADS10SWG 2008 33 8014 10 5.0 16 1 74 10 4625.674 ADS10SWG 2008 33 6033 10 4.8 22 1 74 10 4440.647 ADS10SWG 2008 33 6633 10 4.8 22 1 74 10 3515.512 ADS10SWG 2008 33 66710 10 5.1 24 1 74 10 3515.512 ADS10SWG 2008 34 9652 40 3.2 20 1 74 10 2943.536 ADS10SWG 2008 36 31 20 1.2 18 1 74 10 1103.826 ADS10SWG 2008 36 31 20 1.2 18 1 74 10 1103.826 ADS10SWG 2008 36 69 35 1.3 21 1 74 10 1195.811 ADS10SWG 2008 36 69 35 1.3 21 1 74 10 1342.999 ADS10SWG 2008 36 9004 10 3.7 16 1 74 10 3422.999 ADS10SWG 2008 36 9652 16 7.9 18 1 74 10 5088.241 ADS10SWG 2008 36 9652 16 7.9 18 1 74 10 7266.854 ADS10SWG 2008 36 9652 20 2.0 18 1 74 10 1839.71 ADS10SWG 2008 36 9652 10 7.9 18 1 74 10 1839.71 ADS10SWG 2008 36 9652 10 7.9 18 1 74 10 1839.71 ADS10SWG 2008 36 9652 10 7.9 18 1 74 10 1839.71 ADS10SWG 2008 36 9652 10 7.9 18 1 74 10 174 10 1839.71 ADS10SWG 2008 36 9652 10 6.5 16 1 74 10 4967.217 ADS10SWG 2008 36 9652 10 6.5 16 1 74 10 6013.376 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 6013.376 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 1110.162 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 1110.162 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9858 10 2.3 16 1 74 10 2220.324 ADS10SWG 2008 36 9858 10 2.3 16 1 74 10 12127.81 ADS10SWG 2008 32 5007 30 4.5 8 9 74 10 139.347 ADS10SWG 2008 32 5007 30 4.5 8 9 74 10 139.347 ADS10SWG 2008 32 5007 30 4.5 8 9 74 10 1439.347 ADS10SWG 2008 32 5007 30 4.5 8 9 74 10 1439.347 ADS10SWG 2008 32 5007 30 4.5 8 9 74 10 1439.347 ADS10SWG 2008 32 5007 30 4.5 8 9 74 10 1439.347 ADS10SWG 2008 32 5007 40 1.2 8 9 9 74 10 1439.347 ADS10SWG 2008 32 5007 30 4.5 8 9 74 10 1439.347 ADS10SWG 2008 32 5114 15 1.2 34 3 5 2903 11 1601.172 ADS11 2008 32 5114 15 1.2 34 35 5 2903 11 1601.172 ADS11 2008 32 5114 15 1.2 34 35 5 2903 11 1601.172	ADS10SWG	2008	33	6811	20	1.8	24		1	74	10	1665.243
ADS10SWG 2008 33 8014 10 5.0 16 1 74 10 4625.674 ADS10SWG 2008 33 6033 10 4.8 22 1 74 10 4440.647 ADS10SWG 2008 33 6033 20 3.8 22 1 74 10 3515.512 ADS10SWG 2008 33 6033 20 3.8 22 1 74 10 3515.512 ADS10SWG 2008 34 9652 40 3.2 20 1 74 10 2943.536 ADS10SWG 2008 36 31 20 1.2 18 1 74 10 1103.826 ADS10SWG 2008 36 31 20 1.2 18 1 74 10 1103.826 ADS10SWG 2008 36 669 35 1.3 21 1 74 10 1195.811 ADS10SWG 2008 36 9004 10 3.7 16 1 74 10 3422.999 ADS10SWG 2008 36 9157 10 5.5 18 1 74 10 5088.241 ADS10SWG 2008 36 9652 16 7.9 18 1 74 10 5088.241 ADS10SWG 2008 36 9652 20 2.0 18 1 74 10 1839.71 ADS10SWG 2008 36 9652 20 2.0 18 1 74 10 1839.71 ADS10SWG 2008 36 9652 30 5.4 16 1 74 10 4967.217 ADS10SWG 2008 36 9854 10 1.2 16 1 74 10 6013.376 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 1110.162 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 3555.376 ADS10SWG 2008 36 9857 10 5.0 18 9 74 10 4399.347 ADS10SWG 2008 32 5007 20 4.3 8 9 74 10 4399.347 ADS10SWG 2008 32 5007 40 1.2 8 9 9 74 10 4399.347 ADS10SWG 2008 32 5007 40 1.2 8 9 9 74 10 4399.347 ADS10SWG 2008 32 5007 40 1.2 8 9 9 74 10 4399.347 ADS10SWG 2008 32 5007 40 1.2 8 9 9 74 10 4399.347 ADS11 2008 32 5114 15 1.2 34 3 5 2903 11 1601.172 ADS11 2008 34 49 10 4.4 34 3 5 2903 11 1601.172	ADS10SWG	2008	33	6932	10	1.7	24		1	74	10	1572.729
ADS10SWG	ADS10SWG	2008	33	6933	10	4.4	24		1	74	10	4070.593
ADS10SWG 2008 33 6033 20 3.8 22 1 74 10 3515.512 ADS10SWG 2008 33 6710 10 5.1 24 1 74 10 4718.187 ADS10SWG 2008 34 9652 40 3.2 20 1 74 10 2943.536 ADS10SWG 2008 36 31 20 1.2 18 1 74 10 1103.826 ADS10SWG 2008 36 69 35 1.3 21 1 74 10 1195.811 ADS10SWG 2008 36 9004 10 3.7 16 1 74 10 3422.999 ADS10SWG 2008 36 9157 10 5.5 18 1 74 10 5088.241 ADS10SWG 2008 36 9652 16 7.9 18 1 74 10 5088.241 ADS10SWG 2008 36 9652 16 7.9 18 1 74 10 7266.854 ADS10SWG 2008 36 9652 16 7.9 18 1 74 10 1839.71 ADS10SWG 2008 36 9652 20 2.0 18 1 74 10 4967.217 ADS10SWG 2008 36 9652 30 5.4 16 1 74 10 4967.217 ADS10SWG 2008 36 9854 10 1.2 16 1 74 10 6013.376 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 1110.162 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2127.81 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2127.81 ADS10SWG 2008 36 9855 10 5.4 16 1 74 10 2127.81 ADS10SWG 2008 36 9855 10 5.4 16 1 74 10 2127.81 ADS10SWG 2008 36 9855 10 5.4 16 1 74 10 2127.81 ADS10SWG 2008 36 9855 10 5.4 16 1 74 10 3955.376 ADS10SWG 2008 32 5007 20 4.3 8 9 9 74 10 3955.376 ADS10SWG 2008 32 5007 30 4.5 8 9 9 74 10 4139.347 ADS10SWG 2008 32 5007 40 1.2 8 9 9 74 10 4139.347 ADS10SWG 2008 32 5007 40 1.2 8 9 74 10 4139.347 ADS10SWG 2008 32 5007 40 1.2 8 9 74 10 4139.347 ADS10SWG 2008 32 5007 40 1.2 8 9 74 10 4139.347 ADS10SWG 2008 32 5007 40 1.2 8 9 74 10 4139.347 ADS10SWG 2008 32 5007 40 1.2 8 9 74 10 4139.347 ADS10SWG 2008 32 5007 40 1.2 8 9 74 10 4139.347 ADS10SWG 2008 32 5007 40 1.2 8 9 9 74 10 4139.347 ADS10SWG 2008 32 5007 40 1.2 8 9 9 74 10 4139.347 ADS10SWG 2008 32 5007 40 1.2 8 9 9 74 10 4139.347 ADS10SWG 2008 32 5007 40 1.2 8 9 9 74 10 4139.347 ADS10SWG 32 5114 15 1.2 34 3 5 2903 11 1601.172 ADS11 2008 32 5114 15 1.2 34 3 5 2903 11 1601.172 ADS11 2008 32 5114 15 1.2 34 3 5 2903 11 1601.172	ADS10SWG	2008	33	8014	10	5.0	16		1	74	10	4625.674
ADS10SWG				6033					1		10	4440.647
ADS10SWG   2008   33   6710   10   5.1   24   1   74   10   4718.187	ADS10SWG	2008	33	6033	20	3.8	22		1	74	10	
ADS10SWG   2008   34   9652   40   3.2   20   1   74   10   2943.536		2008			10		24		1		10	
ADS10SWG												
ADS10SWG   2008   36   69   35   1.3   21   1   74   10   1195.811     ADS10SWG   2008   36   9004   10   3.7   16   1   74   10   3422.999     ADS10SWG   2008   36   9157   10   5.5   18   1   74   10   5088.241     ADS10SWG   2008   36   9652   16   7.9   18   1   74   10   7266.854     ADS10SWG   2008   36   9652   20   2.0   18   1   74   10   1839.71     ADS10SWG   2008   36   9652   30   5.4   16   1   74   10   4967.217     ADS10SWG   2008   36   9752   10   6.5   16   1   74   10   6013.376     ADS10SWG   2008   36   9854   10   1.2   16   1   74   10   1110.162     ADS10SWG   2008   36   9855   10   2.4   16   1   74   10   2220.324     ADS10SWG   2008   36   9858   10   2.3   16   1   74   10   2127.81     ADS10SWG   2008   32   5007   20   4.3   8   9   74   10   3955.376     ADS10SWG   2008   32   5007   30   4.5   8   9   74   10   4139.347     ADS10SWG   2008   32   5007   30   4.5   8   9   74   10   4139.347     ADS10SWG   2008   32   5007   30   4.5   8   9   74   10   4139.347     ADS10SWG   2008   32   5007   30   4.5   8   9   74   10   4139.347     ADS10SWG   2008   32   5007   30   4.5   8   9   74   10   4139.347     ADS10SWG   2008   32   5007   30   4.5   8   9   74   10   4139.347     ADS10SWG   2008   32   5007   30   4.5   8   9   74   10   4139.347     ADS10SWG   2008   32   5007   30   4.5   8   9   74   10   4139.347     ADS10SWG   2008   32   5007   30   4.5   8   9   74   10   4139.347     ADS10SWG   2008   32   5007   30   4.5   8   9   74   10   4139.347     ADS10SWG   2008   32   5114   10   0.4   40   4   5   2903   11   533.7241     ADS11   2008   32   5114   15   1.2   34   3   5   2903   11   1601.172     ADS11   2008   34   49   10   4.4   34   34   3   5   2787   11   1494.9					_		_					
ADS10SWG						-						
ADS10SWG         2008         36         9157         10         5.5         18         1         74         10         5088.241           ADS10SWG         2008         36         9652         16         7.9         18         1         74         10         7266.854           ADS10SWG         2008         36         9652         20         2.0         18         1         74         10         1839.71           ADS10SWG         2008         36         9652         30         5.4         16         1         74         10         4967.217           ADS10SWG         2008         36         9752         10         6.5         16         1         74         10         6013.376           ADS10SWG         2008         36         9854         10         1.2         16         1         74         10         110.162           ADS10SWG         2008         36         9855         10         2.4         16         1         74         10         2127.81           ADS10SWG         2008         32         5007         20         4.3         8         9         74         10         3955.376												
ADS10SWG 2008 36 9652 16 7.9 18 1 74 10 7266.854  ADS10SWG 2008 36 9652 20 2.0 18 1 74 10 1839.71  ADS10SWG 2008 36 9652 30 5.4 16 1 74 10 4967.217  ADS10SWG 2008 36 9752 10 6.5 16 1 74 10 6013.376  ADS10SWG 2008 36 9854 10 1.2 16 1 74 10 1110.162  ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324  ADS10SWG 2008 36 9858 10 2.3 16 1 74 10 2127.81  ADS10SWG 2008 32 5007 20 4.3 8 9 74 10 3955.376  ADS10SWG 2008 32 5007 30 4.5 8 9 74 10 4139.347  ADS10SWG 2008 36 9657 10 5.0 18 9 74 10 1103.826  ADS10SWG 2008 32 5114 10 0.4 40 4 5 2903 11 533.7241  ADS11 2008 32 5114 15 1.2 34 3 5 2903 11 1601.172  ADS11 2008 34 49 10 4.4 34 3 5 2787 11 1494.9												
ADS10SWG 2008 36 9652 20 2.0 18 1 74 10 1839.71  ADS10SWG 2008 36 9652 30 5.4 16 1 74 10 4967.217  ADS10SWG 2008 36 9752 10 6.5 16 1 74 10 6013.376  ADS10SWG 2008 36 9854 10 1.2 16 1 74 10 1110.162  ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324  ADS10SWG 2008 36 9858 10 2.3 16 1 74 10 2220.324  ADS10SWG 2008 36 9858 10 2.3 16 1 74 10 2127.81  ADS10SWG 2008 32 5007 20 4.3 8 9 74 10 3955.376  ADS10SWG 2008 32 5007 30 4.5 8 9 74 10 4139.347  ADS10SWG 2008 32 5007 40 1.2 8 9 74 10 1103.826  ADS10SWG 2008 36 9657 10 5.0 18 9 74 10 4599.275  ADS10SWG Total ADS 10 (FADT 50-250) needing su 365.8  ADS11 2008 32 5114 10 0.4 40 4 5 2903 11 533.7241  ADS11 2008 32 5114 15 1.2 34 3 5 2903 11 1601.172  ADS11 2008 34 49 10 4.4 34 3 5 2787 11 1494.9												
ADS10SWG         2008         36         9652         30         5.4         16         1         74         10         4967.217           ADS10SWG         2008         36         9752         10         6.5         16         1         74         10         6013.376           ADS10SWG         2008         36         9854         10         1.2         16         1         74         10         1110.162           ADS10SWG         2008         36         9855         10         2.4         16         1         74         10         220.324           ADS10SWG         2008         36         9858         10         2.3         16         1         74         10         2127.81           ADS10SWG         2008         32         5007         20         4.3         8         9         74         10         3955.376           ADS10SWG         2008         32         5007         30         4.5         8         9         74         10         4139.347           ADS10SWG         2008         32         5007         40         1.2         8         9         74         10         1103.826												
ADS10SWG 2008 36 9752 10 6.5 16 1 74 10 6013.376  ADS10SWG 2008 36 9854 10 1.2 16 1 74 10 1110.162  ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324  ADS10SWG 2008 36 9858 10 2.3 16 1 74 10 2127.81  ADS10SWG 2008 32 5007 20 4.3 8 9 74 10 3955.376  ADS10SWG 2008 32 5007 30 4.5 8 9 74 10 4139.347  ADS10SWG 2008 32 5007 40 1.2 8 9 74 10 1103.826  ADS10SWG 2008 36 9657 10 5.0 18 9 74 10 4599.275  ADS10SWG Total ADS 10 (FADT 50-250) needing su 365.8  ADS11 2008 32 5114 10 0.4 40 4 5 2903 11 533.7241  ADS11 2008 32 5114 15 1.2 34 3 5 2903 11 1601.172  ADS11 2008 34 49 10 4.4 34 3 5 2787 11 1494.9												
ADS10SWG 2008 36 9854 10 1.2 16 1 74 10 1110.162 ADS10SWG 2008 36 9855 10 2.4 16 1 74 10 2220.324 ADS10SWG 2008 36 9858 10 2.3 16 1 74 10 2127.81 ADS10SWG 2008 32 5007 20 4.3 8 9 74 10 3955.376 ADS10SWG 2008 32 5007 30 4.5 8 9 74 10 4139.347 ADS10SWG 2008 32 5007 40 1.2 8 9 74 10 1103.826 ADS10SWG 2008 36 9657 10 5.0 18 9 74 10 4599.275 ADS10SWG Total ADS 10 (FADT 50-250) needing su 365.8 ADS11 2008 32 5114 10 0.4 40 4 5 2903 11 533.7241 ADS11 2008 32 5114 15 1.2 34 3 5 2903 11 1601.172 ADS11 2008 34 49 10 4.4 34 3 5 2787 11 1494.9												
ADS10SWG         2008         36         9855         10         2.4         16         1         74         10         2220.324           ADS10SWG         2008         36         9858         10         2.3         16         1         74         10         2127.81           ADS10SWG         2008         32         5007         20         4.3         8         9         74         10         3955.376           ADS10SWG         2008         32         5007         30         4.5         8         9         74         10         4139.347           ADS10SWG         2008         32         5007         40         1.2         8         9         74         10         4139.347           ADS10SWG         2008         36         9657         10         5.0         18         9         74         10         4599.275           ADS10SWG Total         ADS 10 (FADT 50-250) needing su         365.8         336300.8         336300.8           ADS11         2008         32         5114         10         0.4         40         4         5         2903         11         533.7241           ADS11         2008         34 </td <td></td>												
ADS10SWG 2008 36 9858 10 2.3 16 1 74 10 2127.81  ADS10SWG 2008 32 5007 20 4.3 8 9 74 10 3955.376  ADS10SWG 2008 32 5007 30 4.5 8 9 74 10 4139.347  ADS10SWG 2008 32 5007 40 1.2 8 9 74 10 1103.826  ADS10SWG 2008 36 9657 10 5.0 18 9 74 10 4599.275  ADS10SWG Total ADS 10 (FADT 50-250) needing su 365.8  ADS11 2008 32 5114 10 0.4 40 4 5 2903 11 533.7241  ADS11 2008 32 5114 15 1.2 34 3 5 2903 11 1601.172  ADS11 2008 34 49 10 4.4 34 3 5 2787 11 1494.9												
ADS10SWG 2008 32 5007 20 4.3 8 9 74 10 3955.376  ADS10SWG 2008 32 5007 30 4.5 8 9 74 10 4139.347  ADS10SWG 2008 32 5007 40 1.2 8 9 74 10 1103.826  ADS10SWG 2008 36 9657 10 5.0 18 9 74 10 4599.275  ADS10SWG Total ADS 10 (FADT 50-250) needing su 365.8  ADS11 2008 32 5114 10 0.4 40 4 5 2903 11 533.7241  ADS11 2008 32 5114 15 1.2 34 3 5 2903 11 1601.172  ADS11 2008 34 49 10 4.4 34 3 5 2787 11 1494.9												
ADS10SWG 2008 32 5007 30 4.5 8 9 74 10 4139.347  ADS10SWG 2008 32 5007 40 1.2 8 9 74 10 1103.826  ADS10SWG 2008 36 9657 10 5.0 18 9 74 10 4599.275  ADS10SWG Total ADS 10 (FADT 50-250) needing su 365.8  ADS11 2008 32 5114 10 0.4 40 4 5 2903 11 533.7241  ADS11 2008 32 5114 15 1.2 34 3 5 2903 11 1601.172  ADS11 2008 34 49 10 4.4 34 3 5 2787 11 1494.9												
ADS10SWG 2008 32 5007 40 1.2 8 9 74 10 1103.826  ADS10SWG 2008 36 9657 10 5.0 18 9 74 10 4599.275  ADS10SWG Total ADS 10 (FADT 50-250) needing su 365.8  ADS11 2008 32 5114 10 0.4 40 4 5 2903 11 533.7241  ADS11 2008 32 5114 15 1.2 34 3 5 2903 11 1601.172  ADS11 2008 34 49 10 4.4 34 3 5 2787 11 1494.9												
ADS10SWG 2008 36 9657 10 5.0 18 9 74 10 4599.275  ADS10SWG Total ADS 10 (FADT 50-250) needing su 365.8  ADS11 2008 32 5114 10 0.4 40 4 5 2903 11 533.7241  ADS11 2008 32 5114 15 1.2 34 3 5 2903 11 1601.172  ADS11 2008 34 49 10 4.4 34 3 5 2787 11 1494.9												
ADS10SWG Total         ADS 10 (FADT 50-250) needing su         365.8         336300.8           ADS11         2008         32         5114         10         0.4         40         4         5         2903         11         533.7241           ADS11         2008         32         5114         15         1.2         34         3         5         2903         11         1601.172           ADS11         2008         34         49         10         4.4         34         3         5         2787         11         1494.9												
ADS11 2008 32 5114 10 0.4 40 4 5 2903 11 533.7241 ADS11 2008 32 5114 15 1.2 34 3 5 2903 11 1601.172 ADS11 2008 34 49 10 4.4 34 3 5 2787 11 1494.9							18		9	74	10	
ADS11 2008 32 5114 15 1.2 34 3 5 2903 11 1601.172 ADS11 2008 34 49 10 4.4 34 3 5 2787 11 1494.9												
ADS11 2008 34 49 10 4.4 34 3 5 2787 11 1494.9												
ADS11   2008   34   49   20   3.7   34   3   5   2787   11   1257.075												
	ADS11	2008	34	49	20	3.7	34	3	5	2787	11	1257.075

			NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES_	11	п
			ROUTE_				MSRIS	MSRIS	MSRISD_	MSRISD_	
	FISCAL_	AGENCY_	NUMBE	SECTION_		ROADWAY_				ADS_NUMBE	MSRISD_ BIA CTI
	YEAR		R	NUMBER	LENGTH	WIDTH	TYPE_CODE	TYPE_CODE		R	
ADS11	2008	34	49	45	0.2	34	3			11	
ADS11	2008	48	3003	15	2.9	34	3	5			
ADS11	2008	34	49	35	1.7	34	3	5	1596	11	577.575
ADS11	2008	34	49	40	2.0	34	3	5	1596	11	679.5
ADS11	2008	36	39	10	1.4	34	3	5	1414	11	2188.098
ADS11	2008	33	59	45	2.1	34	3	5	707	11	449.1289
ADS11	2008	36	39	13	1.0	34	3	5	570	11	1562.927
ADS11	2008	48	4055	15	3.2	32	3	4	399	11	1423.2
ADS11	2008	48	4055	20	1.4	32	3	4	399	11	622.65
ADS11	2008	48	3003	10	3.1	34	3	5			
ADS11	2008	0	2030	10	12.0	32	3	4	125		
ADS11	2008	48	4133	10	0.5	32		0			
ADS11	2008	48	4135	10	1.6	32		0			
ADS11	2008	48	4182	10	2.0	32		0			
ADS11	2008	48	4188	10	3.5	32		0			
ADS11	2008	48	4190	10	0.9	32		0			
							2				
ADS11	2008	0	2025	15	4.5	32	3	4	74		
ADS11	2008 2008	48	4178 4178	10 30	3.4	32	3	5	74 74		
ADS11		48			0.6		3	5			
ADS11	2008	48	4178	40	3.1	32	3	5			
ADS11	2008	48	4178	60	0.1	32	3	5	74	11	
ADS11 Total	igsquare	ļ			60.9						40683.94
ADS11S	2008	35	8030	10	0.3	48	4	4	3971	11	
ADS11S	2008	35	8030	12	0.3	48	4	4		11	_
ADS11S	2008	36	112	70	0.3	34	3	4	3885		
ADS11S	2008	34	11	10	0.7	36	3	4	3828		311.325
ADS11S	2008	34	11	30	4.1	36	3	4	3828	11	1823.475
ADS11S	2008	33	619	10	1.5	32		1	2242	11	2503.392
ADS11S	2008	48	3002	95	4.0	34	3	4	1977	11	1779
ADS11S	2008	35	8030	14	0.4	48	4	4	1783	11	
ADS11S	2008	34	48	76	0.6	34	3	4	1620	11	157.62
ADS11S	2008	34	48	80	1.7	34	3	4	1620	11	446.59
ADS11S	2008	34	48	90	1.3	34	3	4	1620	11	341.51
ADS11S	2008	34	49	30	0.4	34	3	4	1596	11	177.9
ADS11S	2008	48	3002	60	1.9	34	3	4	692	11	
ADS11S	2008	48	3002	70	1.6	34	3	4	692	11	711.6
ADS11S	2008	48	3002	90	2.2	34	3	4			
ADS11S	2008	34	48	60	2.5	34	3	4	585		
ADS11S	2008	34	48	70		34	3				
ADS11S	2008	34	-			34	3				
ADS11S	2008	48	4066			32	3			1	+
ADS11S	2008	32	5		8.4	34	3		422		
ADS11S	2008	32	5			34	3				
		needing o	-			34	,		722	11	17436.49
ADS11SG	2008	33	591			36		1	193	11	+
ADS11SG	2008	32	5020	10		38		1	74		432.0933
ADS11SG	2008	35	172	100	3.8	30		1	74		5473.182
ADS11SG ADS11SG	2008	35	8081	20	0.7				74		
ADS11SG ADS11SG	2008	35	8081	40					74		
	2008	35	8084	10	0.4				74		
ADS11SG	2008	35	8084	30					74		1152.249
ADS11SG					1.3						
ADS11SG	2008	35	8084	35	0.7				74		
ADS11SG	2008	48	4055	10					74		
ADS11SG	2008	48	4055	77	0.3				74		
ADS11SG	2008	48	4055	80	1.7				74		
ADS11SG	2008	48	3002	10	3.0				74		
ADS11SG	2008	48	3002	20	7.0				74		
ADS11SG	2008	48	3002	30	0.6				74	11	185.31
ADS11SG	2008	48	3002	50	0.9				74	11	277.965
ADS11SG	2008	48	4162	10	3.3				74		
Dollou											

		1	NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	1	n .
NEED 1		AGENCY_	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS_ SHOULDER_ TYPE CODE	MSRIS_ SURFACE_ TYPE_CODE	MSRISD_ FUTURE_AD T_COUNT	MSRISD_ ADS_NUMBE R	MSRISD_ BIA CTI
ADS11W	2008 2008	33	6331	60	0.7	28	3	5	3295 3295	11	
ADS11W ADS11W	2008	33	16	70 80	0.5	30	3	5	1718	11	
ADS11W ADS11W	2008	33	16	100	3.5	30	3	5	1718	11	
ADS11W ADS11W	2008	33	16	110	2.0	30	3	5	1718	11	
						30			1718		
ADS11W ADS11W	2008 2008	33	16 16	120 85	5.4 0.5	30	3	5	1651	11	
ADS11W ADS11W	2008	33	222	10	0.3	30	3	5	1296	11	
ADS11W ADS11W	2008	36	9101	10	0.8	28	3	5	1146	11	
ADS11W ADS11W	2008	36	9101	13	1.3	28	3	5	1146	11	
ADS11W ADS11W	2008	32	5068	20	5.1	26	3	5	849	11	768.825
ADS11W ADS11W	2008	32	5068	30	0.3	26	3	5	849	11	45.225
ADS11W ADS11W	2008	32	5068	35	3.7	26	3	5	849	11	
ADS11W ADS11W	2008	32	5068	40	1.5	26	3	5	849	11	226.125
ADS11W ADS11W	2008	34	7120	20	0.6	26	3	5	587	11	
ADS11W ADS11W	2008	33	21	75	1.6	26	3	5	539	11	
ADS11W ADS11W	2008	33	16	125	1.5	30		5	450	11	
ADS11W ADS11W	2008	33	222	125	2.7	30	3	5	430	11	
ADS11W ADS11W	2008	33	222	20	1.7	30	3	5	435	11	
ADS11W ADS11W	2008	48	4156	10	0.1	30	3	5	433	11	33.975
ADS11W ADS11W	2008	48	4156	20	1.0	30	3	5	428	11	
ADS11W ADS11W	2008	36	31	10	3.0	26	3	5	423	11	
ADS11W ADS11W	2008	32	5	40	5.8	28	3	5	423	11	
ADS11W ADS11W	2008	48	4055	30	2.0	26	3	4	399	11	889.5
ADS11W ADS11W	2008	48	4055	50	1.5	26	3	4	399	11	
ADS11W ADS11W	2008	48	4055	70	1.3	26	3	4	399	11	
ADS11W ADS11W	2008	48	4033	15	2.6	26	3	4	399	11	
ADS11W ADS11W	2008	48	4040	10	2.6	26	3	4	399	11	1156.35
ADS11W ADS11W	2008	48	4045	10	2.0	26	3	4	399	11	
ADS11W ADS11W	2008	48	4060	10	1.0	26	3	4	399	11	
ADS11W ADS11W	2008	33	16	130	6.9	26	3	4	391	11	
ADS11W ADS11W	2008	0	2017	10	0.5	24	3	4	388	11	
ADS11W	2008	0	2017	20	0.1	24	3	4	388	11	
ADS11W	2008	0	2017	30	0.5	24	3	4	388	11	
ADS11W	2008	0	2017	40	0.2	24	3	4	388	11	
ADS11W	2008	0	2017	50	0.2	24	3	4	388	11	
ADS11W	2008	0	2017	60	0.2	24	3	4	388	11	
ADS11W	2008	0	2017	70	0.4	24	3	4	388	11	
ADS11W	2008	0	2017	80	0.1	24	3	4	388	11	
ADS11W	2008			90		24	3				174.0218
ADS11W	2008		251	40		22	3				3306.415
ADS11W	2008	35	251	50	0.7	22	3		336		1218.153
ADS11W	2008	35	251	55	5.3	24	3	4	336		
ADS11W	2008	36	9402	35	0.1	20		4	331	11	
ADS11W	2008		4007	10		26	3	4		11	
ADS11W	2008	48	4011	16	1.6	28	3	4	327	11	
ADS11W	2008	48	4043	10	2.4	26	3	4	327	11	1067.4
ADS11W	2008	48	4047	10	5.8	26	3	4	327	11	
ADS11W	2008	48	4059	10		28	3	4	319	11	
ADS11W	2008	48	4059	20	1.0	28	3	4	319	11	
ADS11W	2008	48	4057	10	0.9	26	3	4	315	11	400.275
ADS11W	2008		2015	40	0.6	30	3	4	306		
ADS11W	2008		2015	45	0.2	30	3				
ADS11W	2008	0	2015	50	0.1	30	3	4	306	11	
ADS11W	2008	0	2015	60	0.1	30	3	4	306		
ADS11W	2008	32	57	15	6.3	26	3	4	303	11	
ADS11W	2008	48	4035	10	3.5	26	3		293	11	
ADS11W	2008	48	4035	15	5.2	26	3	4	293		
ADS11W	2008	0	2007	25	2.1	24	3	4		11	
ADS11W	2008		33	10			3				
ADS11W	2008		33								

ADSIIW 2008 32 33 40 1.5 26 3 4 288 11 2610.32 ADSIIW 2008 32 33 50 1.5 26 3 4 288 11 2610.32 ADSIIW 2008 48 4064 10 0.5 26 3 4 288 11 2610.32 ADSIIW 2008 48 40061 10 0.5 26 3 4 285 11 222.37 ADSIIW 2008 48 40061 10 0.5 26 3 4 285 11 222.37 ADSIIW 2008 48 40061 10 3.1 26 3 4 285 11 122.37 ADSIIW 2008 48 40061 10 3.1 26 3 4 285 11 132.32 ADSIIW 2008 35 251 20 6.1 20 4 272 11 10615.3 ADSIIW 2008 48 4022 10 0.3 28 3 4 270 11 134.32 ADSIIW 2008 48 4022 15 1.1 28 3 4 270 11 134.92 ADSIIW 2008 48 4022 15 1.1 28 3 4 270 11 148.92 ADSIIW 2008 48 4022 15 1.1 28 3 4 270 11 148.92 ADSIIW 2008 48 4022 15 1.1 28 3 4 270 11 148.92 ADSIIW 2008 48 4022 50 1.9 28 3 4 270 11 18.50 ADSIIW 2008 48 4022 50 1.9 28 3 4 270 11 18.50 ADSIIW 2008 48 4022 50 1.9 28 3 4 270 11 18.50 ADSIIW 2008 48 4022 70 2.4 28 3 4 270 11 18.50 ADSIIW 2008 48 4022 70 2.4 28 3 4 270 11 18.50 ADSIIW 2008 48 4022 70 2.4 28 3 4 270 11 18.50 ADSIIW 2008 48 4022 70 2.4 28 3 4 270 11 19.607 ADSIIW 2008 48 4022 70 1.0 28 3 4 270 11 19.607 ADSIIW 2008 48 4022 70 1.2 4 28 3 4 270 11 19.607 ADSIIW 2008 0 10 2004 80 0.1 24 3 4 264 11 152.065 ADSIIW 2008 0 2004 80 0.1 24 3 4 264 11 152.065 ADSIIW 2008 0 32 5060 10 1.4 24 4 261 11 234.8 ADSIIW 2008 0 32 5060 10 1.4 24 4 261 11 234.8 ADSIIW 2008 0 32 5060 10 1.4 24 4 261 11 234.8 ADSIIWG 2008 0 35 55 40 0.3 2.1 24 4 261 11 32.38 ADSIIWG 2008 0 35 500 10 2.1 24 4 261 11 32.38 ADSIIWG 2008 0 34 7030 2.1 24 3 4 264 11 17.000 ADSIIWG 2008 0 35 500 10 2.7 16 3 3 218 11 10.51 ADSIIWG 2008 0 35 500 10 2.7 16 3 3 4 215 11 19.85 ADSIIWG 2008 0 36 935 30 0.1 2.0 2 3 4 2 3 4 2 4 1 1 1 10.61 ADSIIWG 2008 0 36 935 30 0.1 2.0 2 3 4 2 4 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NEED 1: HIGHWAY GEOMETRIC DESIGN DEFICIENCIES											
NEED   NEAR   ODE   N. NOMBER   DESCRIP   WIDT   THE COUNT   COUNTY   TO   N. P.   BLACTIVE   ALBESTIVE   2008   32   33   50   1.5   26   3   4   2288   1.1   2610.32   ADS. SILW   2008   34   303   50   1.5   26   3   4   2285   1.1   2210.32   ADS. SILW   2008   48   4001   10   0.5   26   3   4   2285   1.1   2210.32   ADS. SILW   2008   48   4001   10   0.5   26   3   4   2285   1.1   222.37   ADS. SILW   2008   48   4001   10   0.5   26   3   4   2285   1.1   222.37   ADS. SILW   2008   48   4002   10   3.1   26   3   4   2285   1.1   128.37   ADS. SILW   2008   48   4002   10   0.3   28   3   4   2270   1.1   136.57   ADS. SILW   2008   48   4002   10   0.3   28   3   4   2270   1.1   136.57   ADS. SILW   2008   48   4002   10   0.3   28   3   4   2270   1.1   148.92   ADS. SILW   2008   48   4002   10   0.3   28   3   4   2270   1.1   148.92   ADS. SILW   2008   48   4002   50   1.0   28   3   4   2270   1.1   148.92   ADS. SILW   2008   48   4002   50   0.5   28   3   4   2270   1.1   148.92   ADS. SILW   2008   48   4002   50   0.5   28   3   4   2270   1.1   148.92   ADS. SILW   2008   48   4002   50   0.5   28   3   4   2270   1.1   148.92   ADS. SILW   2008   48   4002   50   0.5   28   3   4   2270   1.1   148.92   ADS. SILW   2008   48   4002   50   0.5   28   3   4   2270   1.1   148.92   ADS. SILW   2008   48   4002   50   0.5   28   3   4   2270   1.1   148.92   ADS. SILW   2008   48   4002   50   0.5   28   3   4   2270   1.1   148.92   ADS. SILW   2008   48   4002   50   0.5   28   3   4   2270   1.1   148.92   ADS. SILW   2008   30   2004   70   0.3   24   3   4   264   1.1   128.92   ADS. SILW   2008   30   2004   70   0.3   24   3   4   264   1.1   128.92   ADS. SILW   2008   31   2000   30   2.1   24   3   4   264   1.1   128.92   ADS. SILW   2008   34   4002   50   0.5   28   3   4   2270   1.1   40.92   ADS. SILW   2008   34   4002   50   0.5   28   3   4   2270   1.1   40.92   ADS. SILW   2008   34   4002   50   0.5   28   3   4   2270   1.1   40.92   ADS. SILW   2008   34   4002   50		EICCAI			SECTION	SECTION	DOADWAY				_	Medico
ADSIIW 2008 32 33 50 1.5 26 3 4 4 288 11 2010.23  ADSIIW 2008 48 4001 10 0.5 26 3 4 285 11 222.37  ADSIIW 2008 48 4001 10 0.5 26 3 4 285 11 222.37  ADSIIW 2008 48 4001 10 0.5 26 3 4 285 11 222.37  ADSIIW 2008 48 4001 10 0.5 26 3 4 285 11 222.37  ADSIIW 2008 48 4002 10 0.3 1 26 3 4 225 11 1018.25  ADSIIW 2008 48 4002 10 0.3 28 3 4 270 11 1018.34  ADSIIW 2008 48 4022 15 1.1 28 3 4 270 11 1018.34  ADSIIW 2008 48 4022 15 1.1 28 3 4 270 11 1018.34  ADSIIW 2008 48 4022 15 1.1 28 3 4 270 11 44.7  ADSIIW 2008 48 4022 50 1.9 28 3 4 270 11 44.7  ADSIIW 2008 48 4022 50 1.9 28 3 4 270 11 845.02  ADSIIW 2008 48 4022 70 1.0 28 3 4 270 11 1067.  ADSIIW 2008 48 4022 70 1.0 28 3 4 270 11 268.  ADSIIW 2008 48 4022 70 1.0 28 3 4 270 11 268.  ADSIIW 2008 48 4022 10 1.0 28 3 4 270 11 268.  ADSIIW 2008 48 4022 10 1.0 28 3 4 270 11 268.  ADSIIW 2008 48 4022 10 1.0 28 3 4 270 11 268.  ADSIIW 2008 2006 0 2004 80 0.1 24 3 4 264 11 174.021  ADSIIW 2008 2008 25 5060 10 1.4 24 4 4 261 11 352.055  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 352.055  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 352.055  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 352.855  ADSIIW 2008 32 5060 30 2.1 24 4 4 261 11 352.355  ADSIIWG 2008 33 6934 7030 20 0.6 18 3 3 4 220 11 21.879  ADSIIWG 2008 34 7030 20 0.6 18 3 3 4 220 11 21.879  ADSIIWG 2008 35 25 40 0.3 20 4 4 233 11 40.294  ADSIIWG 2008 35 25 506 10 2.7 16 3 24 3 4 220 11 21.879  ADSIIWG 2008 35 25 40 0.3 20 3 4 215 11 49.92  ADSIIWG 2008 35 25 500 0 2.1 24 4 3 4 261 11 352.355  ADSIIWG 2008 35 25 40 0.3 20 3 4 215 11 49.832  ADSIIWG 2008 35 600 0 200 0 200 0 20 0 20 2 2 2 2 3 3 4 2 2 3 3 1 4 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2	NEED 1											
ADSIIW 2008 32 33 50 1.5 26 3 4 4 288 11 2010.23  ADSIIW 2008 48 4001 10 0.5 26 3 4 285 11 222.37  ADSIIW 2008 48 4001 10 0.5 26 3 4 285 11 222.37  ADSIIW 2008 48 4001 10 0.5 26 3 4 285 11 222.37  ADSIIW 2008 48 4001 10 0.5 26 3 4 285 11 222.37  ADSIIW 2008 48 4002 10 0.3 1 26 3 4 225 11 1018.25  ADSIIW 2008 48 4002 10 0.3 28 3 4 270 11 1018.34  ADSIIW 2008 48 4022 15 1.1 28 3 4 270 11 1018.34  ADSIIW 2008 48 4022 15 1.1 28 3 4 270 11 1018.34  ADSIIW 2008 48 4022 15 1.1 28 3 4 270 11 44.7  ADSIIW 2008 48 4022 50 1.9 28 3 4 270 11 44.7  ADSIIW 2008 48 4022 50 1.9 28 3 4 270 11 845.02  ADSIIW 2008 48 4022 70 1.0 28 3 4 270 11 1067.  ADSIIW 2008 48 4022 70 1.0 28 3 4 270 11 268.  ADSIIW 2008 48 4022 70 1.0 28 3 4 270 11 268.  ADSIIW 2008 48 4022 10 1.0 28 3 4 270 11 268.  ADSIIW 2008 48 4022 10 1.0 28 3 4 270 11 268.  ADSIIW 2008 48 4022 10 1.0 28 3 4 270 11 268.  ADSIIW 2008 2006 0 2004 80 0.1 24 3 4 264 11 174.021  ADSIIW 2008 2008 25 5060 10 1.4 24 4 4 261 11 352.055  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 352.055  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 352.055  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 352.855  ADSIIW 2008 32 5060 30 2.1 24 4 4 261 11 352.355  ADSIIWG 2008 33 6934 7030 20 0.6 18 3 3 4 220 11 21.879  ADSIIWG 2008 34 7030 20 0.6 18 3 3 4 220 11 21.879  ADSIIWG 2008 35 25 40 0.3 20 4 4 233 11 40.294  ADSIIWG 2008 35 25 506 10 2.7 16 3 24 3 4 220 11 21.879  ADSIIWG 2008 35 25 40 0.3 20 3 4 215 11 49.92  ADSIIWG 2008 35 25 500 0 2.1 24 4 3 4 261 11 352.355  ADSIIWG 2008 35 25 40 0.3 20 3 4 215 11 49.832  ADSIIWG 2008 35 600 0 200 0 200 0 20 0 20 2 2 2 2 3 3 4 2 2 3 3 1 4 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2	ADS11W	2008	32	33	40	1.5	26	3	4	288	11	2610.327
ADSILW 2008 48 4064 10 0.5 26 3 4 285 11 22237  ADSILW 2008 48 4006 10 3.1 26 3 4 285 11 22237  ADSILW 2008 48 4006 10 3.1 26 3 4 285 11 137872  ADSILW 2008 48 4002 10 0.3 28 3 4 272 11 106153  ADSILW 2008 48 4022 10 0.3 28 3 4 272 11 106153  ADSILW 2008 48 4022 10 0.3 28 3 4 270 11 13382  ADSILW 2008 48 4022 10 0.3 28 3 4 270 11 134472  ADSILW 2008 48 4022 10 0.1 28 3 4 270 11 144.47  ADSILW 2008 48 4022 50 0.1 28 3 4 270 11 144.47  ADSILW 2008 48 4022 50 0.1 28 3 3 4 270 11 144.47  ADSILW 2008 48 4022 50 0.1 28 3 3 4 270 11 145.47  ADSILW 2008 48 4022 70 1.0 28 3 3 4 270 11 145.47  ADSILW 2008 48 4022 70 1.0 28 3 3 4 270 11 185.02  ADSILW 2008 48 4022 70 1.0 28 3 3 4 270 11 185.02  ADSILW 2008 48 4022 70 1.0 28 3 3 4 270 11 1606.7  ADSILW 2008 48 4022 70 1.0 28 3 3 4 270 11 1606.7  ADSILW 2008 68 40 4022 70 1.0 28 3 3 4 270 11 1606.7  ADSILW 2008 68 40 20 2 70 1.0 28 3 3 4 270 11 1606.7  ADSILW 2008 69 0 2004 70 0.3 24 3 4 264 11 522.005  ADSILW 2008 12 5000 10 1.4 24 3 4 264 11 522.005  ADSILW 2008 32 5000 3 2.1 24 4 261 11 332.77  ADSILW 2008 32 5000 3 2.1 24 4 261 11 332.77  ADSILW 2008 32 5000 3 2.1 24 4 261 11 332.77  ADSILW 3008 32 5000 30 2.1 24 4 261 11 332.77  ADSILW 3008 32 5000 30 2.1 24 4 261 11 332.77  ADSILWG 2008 34 7030 20 0.6 18 3 3 42 270 11 1606.77  ADSILWG 2008 34 7030 20 0.6 18 3 3 4 220 11 21.3870  ADSILWG 2008 35 525 40 0.3 20 4 233 11 402.25  ADSILWG 2008 34 6017 20 2.3 26 3 4 225 11 143.22  ADSILWG 2008 35 690 10 2.7 16 3 3 18 11 145.22  ADSILWG 2008 35 690 10 2.7 16 3 4 215 11 605.72  ADSILWG 2008 35 600 10 1.2 24 3 4 26 11 605.72  ADSILWG 2008 35 6731 40 2.3 26 3 4 215 11 605.72  ADSILWG 2008 35 6731 40 2.3 26 3 4 215 11 606.72  ADSILWG 2008 35 6731 40 2.3 26 3 4 215 11 606.72  ADSILWG 2008 48 4017 50 2.3 26 3 4 214 11 604.73  ADSILWG 2008 35 6731 40 2.3 24 3 3 4 120 11 160.73  ADSILWG 2008 35 8080 40 0.4 20 3 3 4 120 11 160.73  ADSILWG 2008 35 8080 50 0.2 28 3 4 4 74 11 183.82  ADSILWG 2008 35 8080 60 0.2 26 3 3 4 174 11 191.83  ADSILWG 2008 48 4007 10 0.9 26 3 3 4 74 11 160.88  AD												
ADSIIW												
ADSIIW 2008 48 4006 10 3.1 26 3 4 285 11 137872.  ADSIIW 2008 48 4002 10 0.3 28 3 4 272 11 106153.  ADSIIW 2008 48 4022 15 1.1 28 3 4 270 11 18342.  ADSIIW 2008 48 4022 15 1.1 28 3 4 270 11 489.22  ADSIIW 2008 48 4022 50 1.9 28 3 4 270 11 845.22  ADSIIW 2008 48 4022 60 0.6 28 3 4 270 11 845.22  ADSIIW 2008 48 4022 70 2.4 28 3 4 270 11 865.83  ADSIIW 2008 48 4022 70 1.2 4 28 3 4 270 11 865.83  ADSIIW 2008 48 4022 70 2.4 28 3 4 270 11 1067.  ADSIIW 2008 48 4022 70 2.4 28 3 4 270 11 1067.  ADSIIW 2008 48 4022 70 2.4 28 3 4 270 11 1067.  ADSIIW 2008 48 4022 70 0.3 24 3 4 270 11 1067.  ADSIIW 2008 84 4022 70 0.3 24 3 4 270 11 1067.  ADSIIW 2008 84 8002 70 0.3 24 3 4 264 11 520.65  ADSIIW 2008 0 2004 80 0.1 24 3 4 264 11 520.65  ADSIIW 2008 0 2004 80 0.1 24 3 4 264 11 520.65  ADSIIW 2008 2 5060 10 1.4 24 4 261 11 332.27  ADSIIW 2008 2 5060 30 2.1 24 4 4 261 11 332.27  ADSIIW 2008 3 5 506 3 2.1 24 4 4 261 11 332.27  ADSIIW 30 208 3 5 506 3 2.1 24 4 261 11 332.27  ADSIIW 30 208 3 5 506 3 2.1 24 4 261 11 234.87  ADSIIWG 2008 3 5 75 40 0.3 20 4 4 233 11 402.33  ADSIIWG 2008 3 5 944 3 0 0.1 28 3 4 220 1 12.3870  ADSIIWG 2008 3 5 945 3 0 0.1 28 3 4 220 1 12.3870  ADSIIWG 2008 48 4017 20 2.3 26 3 4 215 11 403.24  ADSIIWG 2008 48 4017 30 30 3.1 26 3 4 215 11 403.32  ADSIIWG 2008 48 4017 30 33.1 26 3 4 215 11 403.32  ADSIIWG 2008 48 4017 30 33.1 26 3 4 215 11 403.32  ADSIIWG 2008 3 5 6731 40 1.2 26 3 4 125 11 403.32  ADSIIWG 2008 3 5 6731 40 1.2 26 3 4 125 11 403.32  ADSIIWG 2008 3 5 690 10 2.7 16 3 3 4 125 11 403.32  ADSIIWG 2008 3 5 6731 20 2.3 26 3 4 125 11 403.32  ADSIIWG 2008 48 4017 30 33.1 26 3 4 125 11 403.32  ADSIIWG 2008 48 4017 30 33.1 26 3 4 125 11 403.32  ADSIIWG 2008 48 4017 30 33.1 26 3 4 125 11 403.32  ADSIIWG 2008 48 4017 30 33.1 26 3 4 125 11 403.32  ADSIIWG 2008 3 5 690 0 0 200 2 20 2 26 3 4 114 11 64.82  ADSIIWG 2008 3 5 690 0 0 200 2 20 2 26 3 4 14 14 11 64.82  ADSIIWG 2008 3 5 690 0 0 200 2 20 2 26 3 4 14 14 11 64.82  ADSIIWG 2008 48 4065 50 10 2.2 28 3 4 4 74 11 400.39  ADSIIWG 2008 48 4011 13 0.1 28 3		_		4001								
ADSIIW 2008 35 251 20 6.1 20 4 4 272 11 1015.3  ADSIIW 2008 48 4022 10 0.3 28 3 4 270 11 133.42  ADSIIW 2008 48 4022 15 1.1 28 3 4 4 270 11 484.27  ADSIIW 2008 48 4022 50 0.1 28 3 4 270 11 484.27  ADSIIW 2008 48 4022 50 0.1 28 3 4 270 11 444.27  ADSIIW 2008 48 4022 50 0.1 28 3 4 270 11 265.  ADSIIW 2008 48 4022 70 2.4 28 3 4 270 11 265.  ADSIIW 2008 48 4022 70 2.4 28 3 4 270 11 265.  ADSIIW 2008 48 4022 70 2.4 28 3 4 270 11 265.  ADSIIW 2008 48 4022 70 2.4 28 3 4 270 11 265.  ADSIIW 2008 48 4022 90 1.0 28 3 4 270 11 265.  ADSIIW 2008 48 4022 90 1.0 28 3 4 270 11 252.055.  ADSIIW 2008 18 4022 10 1.0 28 3 4 270 11 245.  ADSIIW 2008 20 204 80 0.1 24 3 4 264 11 122.055.  ADSIIW 2008 20 500 30 2.1 24 4 2 61 11 232.85.  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 232.85.  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 332.27.  ADSIIWG 2008 33 7030 20 0.6 18 3 3 255 11 108.85.  ADSIIWG 2008 35 25 40 0.6 18 3 3 255 11 108.85.  ADSIIWG 2008 35 25 40 0.6 18 3 3 245 11 108.85.  ADSIIWG 2008 35 25 40 0.1 22 8 3 4 220 11 21.870.  ADSIIWG 2008 35 25 40 0.5 18 3 3 255 11 108.85.  ADSIIWG 2008 36 9345 30 0.1 28 3 3 4 220 11 21.870.  ADSIIWG 2008 36 9345 30 0.1 28 3 3 4 220 11 21.870.  ADSIIWG 2008 36 9345 30 0.1 28 3 3 4 220 11 21.870.  ADSIIWG 2008 36 9345 30 0.1 26 3 4 215 11 493.25.  ADSIIWG 2008 36 4017 20 2.3 26 3 4 215 11 493.25.  ADSIIWG 2008 33 6731 10 7.4 24 3 14 120 11 160.77.  ADSIIWG 2008 33 6731 20 0.7 24 3 3 12 8 11 160.17.  ADSIIWG 2008 33 6731 20 0.7 24 3 3 135 11 160.17.  ADSIIWG 2008 33 6731 20 0.7 24 3 3 114 11 160.17.  ADSIIWG 2008 33 6731 20 0.7 24 3 3 114 11 160.17.  ADSIIWG 2008 33 6731 10 7.4 24 3 3 4 215 11 665.72.  ADSIIWG 2008 33 6731 20 0.7 24 3 3 114 11 160.17.  ADSIIWG 2008 33 6731 20 0.7 24 3 3 4 120 11 174.23.  ADSIIWG 2008 33 6731 20 0.7 24 3 3 4 120 11 174.23.  ADSIIWG 2008 33 6731 20 0.7 24 3 3 4 120 11 174.23.  ADSIIWG 2008 33 6731 20 0.7 24 3 3 4 120 11 174.23.  ADSIIWG 2008 35 8080 50 4.4 20 3 3 4 14 14 11 160.17.  ADSIIWG 2008 48 4017 30 3.1 26 3 4 4 74 11 126.68.62.  ADSIIWG 2008 48 4017 30 3.1 2			48	4006					4		11	
ADSIIW 2008 48 4022 10 0.3 28 3 4 270 11 133424  ADSIIW 2008 48 4022 15 1.1 28 3 4 270 11 449.22  ADSIIW 2008 48 4022 30 0.1 28 3 4 270 11 449.22  ADSIIW 2008 48 4022 50 1.9 28 3 4 270 11 444.72  ADSIIW 2008 48 4022 50 1.9 28 3 4 270 11 266.82  ADSIIW 2008 48 4022 50 1.9 28 3 4 270 11 266.82  ADSIIW 2008 48 4022 70 2.4 28 3 4 270 11 266.82  ADSIIW 2008 64 4022 70 2.4 28 3 4 270 11 106.63  ADSIIW 2008 0 2004 70 0.3 24 3 4 264 11 52.065  ADSIIW 2008 0 2004 70 0.3 24 3 4 264 11 52.065  ADSIIW 2008 0 2004 80 0.1 24 3 4 264 11 52.065  ADSIIW 2008 10 2004 80 0.1 24 3 4 264 11 52.065  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 334.24  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 352.055  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 352.25  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 352.25  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 352.25  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 352.25  ADSIIW 2008 35 25 40 0.3 2.1 24 4 4 261 11 352.25  ADSIIWG 2008 35 725 40 0.3 20 4 4 233 11 400.23  ADSIIWG 2008 35 725 40 0.3 20 4 4 233 11 400.23  ADSIIWG 2008 48 4017 20 2.3 26 3 4 220 1 4 233 11 400.23  ADSIIWG 2008 48 4017 20 2.3 26 3 4 215 11 439.  ADSIIWG 2008 48 4017 20 2.3 26 3 4 215 11 439.  ADSIIWG 2008 48 4017 20 2.3 26 3 4 215 11 439.  ADSIIWG 2008 48 4017 20 2.3 26 3 4 215 11 439.  ADSIIWG 2008 48 4017 20 2.3 26 3 4 215 11 49.3  ADSIIWG 2008 33 6731 40 1.2 24 3 1 4 21 1 1 665.72  ADSIIWG 2008 33 6731 40 1.3 22 4 3 155 11 1166.572  ADSIIWG 2008 35 8000 10 0.7 24 3 135 11 118.8  ADSIIWG 2008 35 8000 10 0.7 24 3 3 135 11 1166.572  ADSIIWG 2008 35 8000 10 0.7 24 3 3 135 11 1160.812  ADSIIWG 2008 35 8000 10 0.7 24 3 3 4 100 11 1775.3  ADSIIWG 2008 35 8000 10 0.7 24 3 3 4 100 11 1775.3  ADSIIWG 2008 35 8000 10 0.7 24 3 3 4 100 11 1775.3  ADSIIWG 2008 35 8000 10 0.7 24 3 3 4 100 11 1775.3  ADSIIWG 2008 35 8000 10 0.2 26 3 3 4 114 11 1665.42  ADSIIWG 2008 35 8000 10 0.2 26 3 3 4 114 11 1665.82  ADSIIWG 2008 35 8000 10 0.2 26 3 3 4 114 11 1666.82  ADSIIWG 2008 48 4017 10 0.9 26 3 4 4 74 11 1 26.6862  ADSIIWG 2008 48 4011 13 0.1 28 3 4 4 74 11											11	
ADSIIW 2008 48 4022 50 0.1 28 3 4 270 11 44.77  ADSIIW 2008 48 4022 50 1.9 28 3 4 270 11 84.572  ADSIIW 2008 48 4022 60 0.6 28 3 4 270 11 266.88  ADSIIW 2008 48 4022 70 2.4 28 3 4 270 11 266.88  ADSIIW 2008 64 4022 70 0.4 28 3 4 270 11 266.88  ADSIIW 2008 0 2004 70 0.3 24 3 4 26 11 174.021  ADSIIW 2008 0 2004 70 0.3 24 3 4 26 11 174.021  ADSIIW 2008 0 2004 70 0.3 24 3 4 26 11 174.021  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 234.88  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 234.88  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 234.88  ADSIIW 2008 32 5060 10 1.4 24 5 4 261 11 234.88  ADSIIW 2008 32 5060 10 1.4 24 5 4 261 11 234.88  ADSIIW 2008 32 5060 10 1.4 24 5 4 261 11 234.88  ADSIIW 2008 35 5 5 5 40 0.3 20 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ADS11W							3				
ADSIIW 2008 48 4022 50 0.1 28 3 4 270 11 44.77  ADSIIW 2008 48 4022 50 1.9 28 3 4 270 11 84.572  ADSIIW 2008 48 4022 60 0.6 28 3 4 270 11 266.88  ADSIIW 2008 48 4022 70 2.4 28 3 4 270 11 266.88  ADSIIW 2008 64 4022 70 0.4 28 3 4 270 11 266.88  ADSIIW 2008 0 2004 70 0.3 24 3 4 26 11 174.021  ADSIIW 2008 0 2004 70 0.3 24 3 4 26 11 174.021  ADSIIW 2008 0 2004 70 0.3 24 3 4 26 11 174.021  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 234.88  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 234.88  ADSIIW 2008 32 5060 10 1.4 24 4 4 261 11 234.88  ADSIIW 2008 32 5060 10 1.4 24 5 4 261 11 234.88  ADSIIW 2008 32 5060 10 1.4 24 5 4 261 11 234.88  ADSIIW 2008 32 5060 10 1.4 24 5 4 261 11 234.88  ADSIIW 2008 35 5 5 5 40 0.3 20 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ADS11W	2008	48	4022	15	1.1	28	3	4	270	11	489.225
ADSIIW 2008 48 4022 50 1.9 28 3 4 270 11 845025 ADSIIW 2008 48 4022 60 0.6 28 3 4 270 11 266.8 ADSIIW 2008 48 4022 70 2.4 28 3 4 270 11 266.8 ADSIIW 2008 0 48 4022 70 2.4 28 3 4 270 11 266.8 ADSIIW 2008 0 2004 70 0.3 24 3 4 264 11 72.2 ADSIIW 2008 0 2004 70 0.3 24 3 4 264 11 72.2 ADSIIW 2008 0 2004 80 0.1 24 3 4 264 11 72.2 ADSIIW 2008 0 2004 80 0.1 24 3 4 264 11 72.2 ADSIIW 2008 32 5000 10 1.4 24 4 261 11 32.2 ADSIIW 2008 32 5000 10 1.4 24 4 261 11 32.2 ADSIIW 2008 32 5000 10 1.4 24 4 261 11 32.3 ADSIIW 2008 32 5000 30 2.1 24 4 261 11 352.2 ADSIIWG 2008 34 7030 20 1.6 18 3 3 245 11 199.8 ADSIIWG 2008 35 25 40 0.3 20 4 233 11 199.8 ADSIIWG 2008 35 25 40 0.3 20 4 233 11 199.8 ADSIIWG 2008 35 25 40 0.3 20 4 233 11 190.2 ADSIIWG 2008 48 4017 20 25 26 3 4 215 11 490.2 ADSIIWG 2008 48 4017 15 2.0 26 3 4 215 11 493.2 ADSIIWG 2008 48 4017 30 3.1 26 3 3 4 215 11 493.2 ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 493.2 ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 493.2 ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 493.2 ADSIIWG 2008 33 6731 20 0.7 24 3 3 4 215 11 665.2 ADSIIWG 2008 33 6731 20 0.7 24 3 3 135 11 1061.17 ADSIIWG 2008 3 6 5012 40 2.3 24 3 3 4 215 11 665.2 ADSIIWG 2008 3 6 600 2009 10 1.2 26 3 4 189 11 610.17 ADSIIWG 2008 3 6 600 2009 10 1.2 26 3 4 189 13 160.17 ADSIIWG 2008 3 6 600 2009 10 1.2 26 3 4 189 13 160.17 ADSIIWG 2008 3 6 600 2009 10 1.2 26 3 4 189 13 160.17 ADSIIWG 2008 3 6 600 2007 20 1.2 24 3 3 135 11 1051.17 ADSIIWG 2008 3 600 2009 10 1.2 26 3 4 189 13 160.17 ADSIIWG 2008 3 600 2007 20 1.2 24 3 3 135 11 1061.17 ADSIIWG 2008 3 600 2007 20 1.2 24 3 3 135 11 1061.17 ADSIIWG 2008 3 600 2007 20 1.2 24 3 3 135 11 1061.17 ADSIIWG 2008 3 600 2007 20 1.2 24 3 3 14 11 1 194.8 ADSIIWG 2008 3 600 2007 20 1.2 24 3 3 14 11 1 194.8 ADSIIWG 2008 3 600 2007 20 1.2 24 3 3 14 11 1 196.66.2 ADSIIWG 2008 3 6 600 2007 20 1.2 24 3 3 14 11 1 196.66.2 ADSIIWG 2008 3 6 600 2007 20 1.2 24 3 3 4 10 1 1 195.8 ADSIIWG 2008 3 6 600 2007 20 1.2 24 3 3 4 10 1 1 196.60.2 ADSIIWG 2008 3 6 600 2007 20 1.2 24 3 3 4 10 1 1 106.01.7 ADSIIWG 2	ADS11W	2008	48	4022	30	0.1	28		4	270	11	
ADSI IW  2008 48 4022 70 24 28 3 4 270 11 1067.  ADSI IW  2008 0 2004 70 0.3 24 3 4 264 11 522.055.  ADSI IW  2008 0 2004 70 0.3 24 3 4 264 11 522.055.  ADSI IW  2008 32 5060 10 1.4 24 4 4 261 11 74.021.  ADSI IW  2008 33 5060 10 1.4 24 4 4 261 11 73.021.  ADSI IW  2008 32 5060 30 2.1 24 4 261 11 73.021.  ADSI IW  2008 32 5060 10 1.4 24 4 4 261 11 352.055.  ADSI IW  2008 33 5060 10 1.4 24 4 4 261 11 352.055.  ADSI IW  2008 33 5060 10 1.4 24 4 4 261 11 352.055.  ADSI IWG  2008 34 7030 20 0.6 18 3 3 245 11 191.8.  ADSI IWG  2008 35 25 40 0.3 20 4 4 233 11 4002.33.  ADSI IWG  2008 35 25 40 0.3 20 4 4 233 11 4002.33.  ADSI IWG  2008 35 25 40 0.3 20 4 4 233 11 4002.33.  ADSI IWG  2008 34 4017 15 2.0 26 3 4 215 11 495.22.  ADSI IWG  2008 48 4017 20 2.3 26 3 4 215 11 495.22.  ADSI IWG  2008 48 4017 20 2.3 26 3 4 215 11 495.22.  ADSI IWG  2008 48 4017 20 2.3 26 3 4 215 11 495.22.  ADSI IWG  2008 48 4017 20 2.3 26 3 4 215 11 495.22.  ADSI IWG  2008 48 4055 75 0.3 26 3 4 215 11 495.22.  ADSI IWG  2008 32 5012 40 2.3 26 3 4 215 11 495.22.  ADSI IWG  2008 33 6731 10 7.4 24 3 3 135 11 11 61.42.  ADSI IWG  2008 33 6731 10 7.4 24 3 3 135 11 11 1185.8.  ADSI IWG  2008 33 6731 10 7.4 24 3 3 135 11 1185.8.  ADSI IWG  2008 33 6731 40 1.3 22 3 3 4 120 11 1185.8.  ADSI IWG  2008 33 6731 40 1.3 22 3 3 4 120 11 1185.8.  ADSI IWG  2008 33 6731 40 1.3 22 3 3 4 120 11 1185.8.  ADSI IWG  2008 33 6731 40 1.3 22 3 3 4 120 11 1185.8.  ADSI IWG  2008 33 6731 40 1.3 22 3 3 4 120 11 1185.8.  ADSI IWG  2008 33 6731 40 1.3 22 4 3 3 135 11 105.0.  ADSI IWG  2008 33 6731 40 1.3 22 4 3 4 120 11 1772.13  ADSI IWG  2008 33 6731 40 1.3 22 4 3 4 120 11 1772.13  ADSI IWG  2008 33 6731 40 1.3 22 4 3 4 120 11 1772.13  ADSI IWG  2008 35 8080 10 42 20 3 3 4 120 11 141.11  ADSI IWG  2008 35 8080 10 4 22 20 3 3 114 1 11 185.8.  ADSI IWG  2008 35 8080 10 4 22 20 3 3 114 11 11 11 159.87.  ADSI IWG  2008 35 8080 50 4 4 20 3 3 4 120 11 11 11 11 11 11 11 11 11 11 11 11 11	ADS11W	2008	48	4022	50	1.9	28		4	270	11	845.025
ADSI IW  2008 48 4022 70 24 28 3 4 270 11 1067.  ADSI IW  2008 0 2004 70 0.3 24 3 4 264 11 522.055.  ADSI IW  2008 0 2004 70 0.3 24 3 4 264 11 522.055.  ADSI IW  2008 32 5060 10 1.4 24 4 4 261 11 74.021.  ADSI IW  2008 33 5060 10 1.4 24 4 4 261 11 73.021.  ADSI IW  2008 32 5060 30 2.1 24 4 261 11 73.021.  ADSI IW  2008 32 5060 10 1.4 24 4 4 261 11 352.055.  ADSI IW  2008 33 5060 10 1.4 24 4 4 261 11 352.055.  ADSI IW  2008 33 5060 10 1.4 24 4 4 261 11 352.055.  ADSI IWG  2008 34 7030 20 0.6 18 3 3 245 11 191.8.  ADSI IWG  2008 35 25 40 0.3 20 4 4 233 11 4002.33.  ADSI IWG  2008 35 25 40 0.3 20 4 4 233 11 4002.33.  ADSI IWG  2008 35 25 40 0.3 20 4 4 233 11 4002.33.  ADSI IWG  2008 34 4017 15 2.0 26 3 4 215 11 495.22.  ADSI IWG  2008 48 4017 20 2.3 26 3 4 215 11 495.22.  ADSI IWG  2008 48 4017 20 2.3 26 3 4 215 11 495.22.  ADSI IWG  2008 48 4017 20 2.3 26 3 4 215 11 495.22.  ADSI IWG  2008 48 4017 20 2.3 26 3 4 215 11 495.22.  ADSI IWG  2008 48 4055 75 0.3 26 3 4 215 11 495.22.  ADSI IWG  2008 32 5012 40 2.3 26 3 4 215 11 495.22.  ADSI IWG  2008 33 6731 10 7.4 24 3 3 135 11 11 61.42.  ADSI IWG  2008 33 6731 10 7.4 24 3 3 135 11 11 1185.8.  ADSI IWG  2008 33 6731 10 7.4 24 3 3 135 11 1185.8.  ADSI IWG  2008 33 6731 40 1.3 22 3 3 4 120 11 1185.8.  ADSI IWG  2008 33 6731 40 1.3 22 3 3 4 120 11 1185.8.  ADSI IWG  2008 33 6731 40 1.3 22 3 3 4 120 11 1185.8.  ADSI IWG  2008 33 6731 40 1.3 22 3 3 4 120 11 1185.8.  ADSI IWG  2008 33 6731 40 1.3 22 3 3 4 120 11 1185.8.  ADSI IWG  2008 33 6731 40 1.3 22 4 3 3 135 11 105.0.  ADSI IWG  2008 33 6731 40 1.3 22 4 3 4 120 11 1772.13  ADSI IWG  2008 33 6731 40 1.3 22 4 3 4 120 11 1772.13  ADSI IWG  2008 33 6731 40 1.3 22 4 3 4 120 11 1772.13  ADSI IWG  2008 35 8080 10 42 20 3 3 4 120 11 141.11  ADSI IWG  2008 35 8080 10 4 22 20 3 3 114 1 11 185.8.  ADSI IWG  2008 35 8080 10 4 22 20 3 3 114 11 11 11 159.87.  ADSI IWG  2008 35 8080 50 4 4 20 3 3 4 120 11 11 11 11 11 11 11 11 11 11 11 11 11	ADS11W	2008	48	4022	60	0.6	28	3	4	270	11	266.85
ADSI IW  2008 0 2004 70 0.3 24 3 4 2c4 11 522.065* ADSI IW  2008 32 5060 10 1.4 24 3 4 261 11 747.021* ADSI IW  2008 32 5060 10 1.4 24 4 261 11 747.021* ADSI IW  2008 32 5060 30 2.1 24 4 261 11 747.021* ADSI IW  2008 33 5060 30 2.1 24 4 261 11 758.22* ADSI IW  2008 34 7030 20 0.6 18 3 76.24* ADSI IWG  2008 35 25 40 0.3 20 4 23 76.24* ADSI IWG  2008 35 25 40 0.3 20 4 23 76.24* ADSI IWG  2008 36 9345 30 0.1 28 3 4 220 11 21.3870* ADSI IWG  2008 36 9345 30 0.1 28 3 4 220 11 21.3870* ADSI IWG  2008 36 9345 30 0.1 28 3 4 220 11 21.3870* ADSI IWG  2008 44 4017 15 2.0 26 3 4 215 11 495.22* ADSI IWG  2008 44 4017 15 2.0 26 3 4 215 11 495.22* ADSI IWG  2008 44 4017 30 3.1 26 3 4 215 11 495.22* ADSI IWG  2008 44 4017 30 3.1 26 3 4 215 11 495.22* ADSI IWG  2008 44 4055 75 0.3 26 3 4 215 11 495.22* ADSI IWG  2008 45 4055 75 0.3 26 3 4 214 11 66.42* ADSI IWG  2008 32 5012 40 2.3 26 3 4 214 11 66.42* ADSI IWG  2008 33 6731 20 0.7 24 3 3 135 11 10 64.22* ADSI IWG  2008 33 6731 20 0.7 24 3 135 11 118.8.8* ADSI IWG  2008 33 6731 20 0.7 24 3 135 11 118.8.8* ADSI IWG  2008 33 6731 40 1.3 22 3 24 3 135 11 118.8.8* ADSI IWG  2008 33 6731 40 1.3 22 3 24 3 135 11 118.8.8* ADSI IWG  2008 33 6731 40 1.3 22 3 24 3 135 11 118.8.8* ADSI IWG  2008 33 6731 40 1.3 22 3 24 3 135 11 118.8.8* ADSI IWG  2008 33 6731 40 1.3 22 3 24 3 135 11 118.8.8* ADSI IWG  2008 33 6731 40 1.3 22 3 24 3 135 11 118.8.8* ADSI IWG  2008 33 6731 40 1.3 22 3 24 3 135 11 118.8.8* ADSI IWG  2008 33 6731 40 1.3 22 3 24 3 14 120 117472.13* ADSI IWG  2008 33 6731 40 1.3 22 4 3 4 120 117472.13* ADSI IWG  2008 35 8080 10 0.4 20 3 3 114 11 16.65.6* ADSI IWG  2008 35 8080 10 0.4 20 3 3 114 11 16.65.6* ADSI IWG  2008 35 8080 50 1.2 20 3 3 114 11 16.65.6* ADSI IWG  2008 35 8080 50 1.2 20 3 3 114 11 11.86.8.8* ADSI IWG  2008 35 8080 50 1.2 20 3 3 114 11 11.86.8.8* ADSI IWG  2008 36 9010 50 12.0 18 3 114 11 11.86.8.8* ADSI IWG  2008 36 9010 50 12.0 18 3 114 11 11.86.8.8* ADSI IWG  2008 36 9010 50 12.0 18 3 14 4 14 11 1.86.8.8* ADSI IWG  2008 36 904 50 200 20 20 20 20 3 3 4 4 14	ADS11W	2008	48	4022	70	2.4	28		4	270	11	1067.4
ADSIIW 2008 0 2004 80 0.1 24 3 4 264 11 174.021 ADSIIW 2008 32 5060 10 1.4 24 4 261 11 234.88 ADSIIW 2008 32 5060 10 1.4 24 4 261 11 234.88 ADSIIW 2008 32 5060 30 2.1 24 4 4 261 11 352.27 ADSIIWG 2008 34 7030 20 0.6 18 3 3 245 11 1952.27 ADSIIWG 2008 35 700 0.6 18 3 3 245 11 1952.37 ADSIIWG 2008 35 525 40 0.3 20 4 233 11 400.293 ADSIIWG 2008 35 525 40 0.3 20 4 233 11 400.293 ADSIIWG 2008 35 525 40 0.3 20 4 233 11 400.293 ADSIIWG 2008 32 5069 10 2.7 16 3 3 218 11 145.122 ADSIIWG 2008 48 4017 15 2.0 26 3 4 215 11 493.91 ADSIIWG 2008 48 4017 20 2.3 26 3 4 215 11 493.91 ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 493.91 ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 493.91 ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 405.92 ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 665.72 ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 665.72 ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 665.72 ADSIIWG 2008 32 5012 40 2.3 24 3 177 11 735.42 ADSIIWG 2008 33 6731 10 7.4 24 3 1355 11 1185.84 ADSIIWG 2008 33 6731 20 0.7 24 3 135 11 1185.84 ADSIIWG 2008 33 6731 20 0.7 24 3 135 11 1185.84 ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 1085.12 ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 1085.12 ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 1085.03 ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 1085.03 ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 1085.03 ADSIIWG 2008 35 8080 10 4.2 20 3 114 11 6348.72 ADSIIWG 2008 35 8080 10 4.2 20 3 114 11 6348.72 ADSIIWG 2008 35 8080 40 0.4 20 3 114 11 6348.72 ADSIIWG 2008 35 8080 40 0.4 20 3 114 11 6348.72 ADSIIWG 2008 35 8080 40 0.4 20 3 114 11 646.60 ADSIIWG 2008 36 600 2007 10 5.6 24 3 4 100 11 1601.17 ADSIIWG 2008 37 600 2007 10 5.6 24 3 4 100 11 1601.17 ADSIIWG 2008 36 8080 50 10 4.2 20 3 114 11 1665.60 ADSIIWG 2008 37 8080 40 0.4 20 3 114 11 1665.60 ADSIIWG 2008 36 8080 50 0.2 26 3 3 4 114 11 266.862 ADSIIWG 2008 37 8080 50 10 0.2 26 3 3 4 114 11 1666.80 ADSIIWG 2008 38 40 0.4 20 20 3 114 11 1266.80 ADSIIWG 2008 36 940 200 200 20 20 20 20 20 20 20 20 3 3 4 74 11 193.07 ADSIIWG 2008 48 4014 10 0.0 2 26 3 3 4 74 11 1 20.47 ADSIIWG 2008 4	ADS11W	2008	48	4022	90	1.0	28	3	4	270	11	444.75
ADS11W 2008 32 5060 10 1.4 24 4 261 11 234.8: ADS11W Total ADS1 Ineeding only roadway wid 136.9 1089643. ADS11WG 2008 34 7030 20 0.6 18 3 245 11 1918. ADS11WG 2008 35 25 40 0.3 20 4 233 11 400.293. ADS11WG 2008 35 25 40 0.3 20 4 233 11 400.293. ADS11WG 2008 36 9345 30 0.1 28 3 4 220 11 21.3870. ADS11WG 2008 32 5069 10 2.7 16 3 218 111 451.22. ADS11WG 2008 48 4017 15 2.0 26 3 4 215 11 429.2 ADS11WG 2008 48 4017 15 2.0 26 3 4 215 11 429.2 ADS11WG 2008 48 4017 30 3.1 26 3 4 215 11 459.2 ADS11WG 2008 48 4017 30 3.1 26 3 4 215 11 69.572. ADS11WG 2008 48 4017 30 3.1 26 3 4 215 11 69.572. ADS11WG 2008 48 4017 30 3.1 26 3 4 215 11 69.572. ADS11WG 2008 48 4017 30 3.1 26 3 4 215 11 60.572. ADS11WG 2008 48 4017 30 3.1 26 3 4 215 11 60.572. ADS11WG 2008 32 5012 40 2.3 24 3 177 11 375.422. ADS11WG 2008 33 6731 10 7.4 24 3 13.57 11 151.352.4 ADS11WG 2008 33 6731 10 7.4 24 3 3 135 11 1058.1 ADS11WG 2008 33 6731 20 0.7 24 3 3 135 11 1058.1 ADS11WG 2008 33 6731 20 0.7 24 3 3 135 11 1058.1 ADS11WG 2008 33 6731 40 1.3 22 3 3 135 11 1058.1 ADS11WG 2008 33 6731 40 1.3 22 3 3 135 11 1058.1 ADS11WG 2008 33 6731 40 1.3 22 3 3 135 11 1058.1 ADS11WG 2008 35 8080 0 2007 10 5.6 24 3 4 129 11 7472.13 ADS11WG 2008 35 8080 10 0.4 26 3 4 129 11 7472.13 ADS11WG 2008 35 8080 10 0.4 26 3 4 129 11 7472.13 ADS11WG 2008 35 8080 10 0.4 20 3 3 114 11 601.75 ADS11WG 2008 35 8080 10 0.4 20 3 3 114 11 601.75 ADS11WG 2008 35 8080 20 0.5 20 3 3 114 11 1601.75 ADS11WG 2008 35 8080 10 0.4 20 3 3 114 11 1601.75 ADS11WG 2008 35 8080 30 1.2 20 3 3 114 11 1601.75 ADS11WG 2008 35 8080 30 1.2 20 3 3 114 11 1601.75 ADS11WG 2008 35 8080 30 1.2 20 3 3 114 11 1601.75 ADS11WG 2008 35 8080 30 1.2 20 3 3 114 11 1601.75 ADS11WG 2008 35 8080 30 1.2 20 3 3 114 11 1601.75 ADS11WG 2008 35 8080 30 1.2 20 3 3 114 11 11 601.66.62 ADS11WG 2008 36 900 50 200 20 20 20 20 20 20 20 20 20 20 20 2	ADS11W	2008	0	2004	70	0.3	24	3	4	264	11	522.0655
ADSIIW 2008 32 5060 30 2.1 24 4 261 11 352.27  ADSIIW Total ADSI   needing only road-way wid   136.9   1089641.  ADSIIWG 2008 34 7030 20 0.6 18 3 245 11 191.8  ADSIIWG 2008 35 25 40 0.3 20 4 233 11 400.293  ADSIIWG 2008 35 594 30 0.1 28 3 4 220 11 21.8970  ADSIIWG 2008 32 5069 10 2.7 16 3 218 11 40.293  ADSIIWG 2008 48 4017 15 2.0 26 3 4 215 11 492.9  ADSIIWG 2008 48 4017 20 2.3 26 3 4 215 11 492.9  ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 492.9  ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 492.9  ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 493.9  ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 665.72  ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 665.72  ADSIIWG 2008 32 5012 40 2.3 26 3 4 189 11 1601.77  ADSIIWG 2008 33 6731 10 7.4 24 3 135 11 1183.8  ADSIIWG 2008 33 6731 10 7.4 24 3 135 11 1183.8  ADSIIWG 2008 33 6731 40 1.3 22 3 135 11 1183.8  ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 1183.8  ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 1183.8  ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 195.0  ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 195.0  ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 195.80  ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 195.81  ADSIIWG 2008 35 8080 10 4.2 20 3 3 114 11 1 195.87  ADSIIWG 2008 35 8080 10 4.2 20 3 3 114 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ADS11W	2008	0	2004	80	0.1	24		4	264	11	174.0218
ADS1IWG 2008 34 7030 20 0.6 18 3 245 11 1918.  ADS1IWG 2008 35 725 40 0.3 20 4 233 11 400.293  ADS1IWG 2008 35 9345 30 0.1 28 3 4 220 11 21.8702  ADS1IWG 2008 32 5069 10 2.7 16 3 218 11 1918.  ADS1IWG 2008 48 4017 15 2.0 26 3 4 215 11 493.22  ADS1IWG 2008 48 4017 15 2.0 26 3 4 215 11 493.22  ADS1IWG 2008 48 4017 30 3.1 26 3 4 215 11 493.22  ADS1IWG 2008 48 4017 30 3.1 26 3 4 215 11 665.72  ADS1IWG 2008 48 4017 30 3.1 26 3 4 215 11 665.72  ADS1IWG 2008 48 4017 30 3.1 26 3 4 215 11 665.72  ADS1IWG 2008 48 4055 75 0.3 26 3 4 215 11 665.72  ADS1IWG 2008 48 4055 75 0.3 26 3 4 215 11 665.72  ADS1IWG 2008 32 5012 40 2.3 24 3 1777 11 735.42  ADS1IWG 2008 33 6731 10 7.4 24 3 1355 11 1058.12  ADS1IWG 2008 33 6731 20 0.7 24 3 1355 11 1058.12  ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 1058.12  ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 1058.12  ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 1058.12  ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 1058.12  ADSIIWG 2008 35 8080 0 2007 10 5.6 24 3 4 120 11 7472.13  ADSIIWG 2008 35 8080 10 4.2 20 3 114 11 604.640  ADSIIWG 2008 35 8080 10 4.2 20 3 114 11 6348.72  ADSIIWG 2008 35 8080 10 4.2 20 3 114 11 6348.72  ADSIIWG 2008 35 8080 20 0.5 20 3 114 11 664.640  ADSIIWG 2008 35 8080 20 0.5 20 3 114 11 664.640  ADSIIWG 2008 35 8080 30 1.2 20 3 114 11 664.640  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 664.640  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 1661.73  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 1661.73  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 1661.73  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 1661.73  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 1661.73  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 1661.73  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 1661.73  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 1661.73  ADSIIWG 2008 35 8080 30 1.2 20 3 3 144 114 11 266.862  ADSIIWG 2008 36 900 50 200 2 20 0.2 26 3 3 4 114 11 1 266.862  ADSIIWG 2008 36 900 50 200 2 20 0.2 26 3 3 4 74 11 266.862  ADSIIWG 2008 48 4065 50 0.2 28 3 3 4 74 11 1 247.94  ADSIIWG 2008 48 4014 10 0.1 28 3 3 4 74 11 1 348.651  ADSI	ADS11W	2008	32	5060	10	1.4	24		4	261	11	234.85
ADS11WG	ADS11W	2008	32	5060	30	2.1	24		4	261	11	352.275
ADS11WG	ADS11W Total	ADS 11	needing	only roa	dway wid	136.9						108964.8
ADS1IWG 2008 36 9345 30 0.1 28 3 4 220 11 21.3870.  ADS1IWG 2008 48 4017 15 2.0 26 3 4 215 11 429.  ADS1IWG 2008 48 4017 15 2.0 26 3 4 215 11 429.  ADS1IWG 2008 48 4017 30 3.1 26 3 4 215 11 665.72.  ADS1IWG 2008 48 4017 30 3.1 26 3 4 215 11 665.72.  ADS1IWG 2008 48 4017 30 3.1 26 3 4 215 11 665.72.  ADS1IWG 2008 48 4017 30 3.1 26 3 4 214 11 664.22.  ADS1IWG 2008 0 2009 10 1.2 26 3 4 189 11 1601.77.  ADS1IWG 2008 32 5012 40 2.3 24 3 177 11 735.42.  ADS1IWG 2008 33 6731 10 7.4 24 3 177 11 735.42.  ADSIIWG 2008 33 6731 20 0.7 24 3 135 11 1056.08.  ADSIIWG 2008 33 6731 40 1.3 22 3 135 11 1056.08.  ADSIIWG 2008 0 2007 10 5.6 24 3 4 129 11 533.724.  ADSIIWG 2008 0 2007 10 5.6 24 3 4 129 11 661.17.  ADSIIWG 2008 0 2007 10 5.6 24 3 4 120 11 1601.17.  ADSIIWG 2008 35 8080 10 4.2 20 3 114 11 6348.2.  ADSIIWG 2008 35 8080 10 4.2 20 3 114 11 6348.2.  ADSIIWG 2008 35 8080 20 0.5 20 3 114 11 189.8.  ADSIIWG 2008 35 8080 20 0.5 20 3 114 11 189.8.  ADSIIWG 2008 35 8080 20 0.5 20 3 114 11 189.8.  ADSIIWG 2008 35 8080 40 0.4 20 3 114 11 189.8.  ADSIIWG 2008 35 8080 40 0.4 20 3 114 11 189.8.  ADSIIWG 2008 35 8080 50 4.4 20 3 114 11 189.8.  ADSIIWG 2008 35 8080 40 0.4 20 3 114 11 189.8.  ADSIIWG 2008 35 8080 40 0.4 20 3 114 11 189.8.  ADSIIWG 2008 35 8080 40 0.4 20 3 114 11 189.8.  ADSIIWG 2008 35 8080 50 4.4 20 3 114 11 189.9.  ADSIIWG 2008 35 8080 50 4.4 20 3 114 11 166.86.  ADSIIWG 2008 36 9000 50 12.0 18 3 114 11 166.86.  ADSIIWG 2008 37 8080 50 4.4 20 3 114 11 166.86.  ADSIIWG 2008 36 9000 50 12.0 18 3 144 105 11 400.293  ADSIIWG 2008 37 8080 50 4.4 20 3 114 11 11 66.86.  ADSIIWG 2008 36 9000 50 12.0 18 3 4 114 11 266.862  ADSIIWG 2008 37 8080 50 4.4 20 3 4 114 11 266.862  ADSIIWG 2008 38 600 50 4.4 20 3 4 114 11 266.862  ADSIIWG 2008 40 2002 20 0.2 26 3 4 4 74 11 400.293  ADSIIWG 2008 48 400 5 50 0.2 28 3 4 74 11 400.293  ADSIIWG 2008 48 400 5 50 0.2 28 3 4 74 11 140.793  ADSIIWG 2008 48 400 1 13 0.1 28 3 4 74 11 140.793  ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 140.793  ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 140.793  ADSI	ADS11WG		T		1	0.6	18		3	245	11	191.85
ADS11WG 2008 36 9345 30 0.1 28 3 4 220 11 21.8702 ADS11WG 2008 48 4017 15 2.0 26 3 4 215 11 45.02 ADS11WG 2008 48 4017 20 2.3 26 3 4 215 11 45.02 ADS11WG 2008 48 4017 30 3.1 26 3 4 215 11 45.02 ADS11WG 2008 48 4017 30 3.1 26 3 4 215 11 665.72 ADS11WG 2008 48 4017 30 3.1 26 3 4 215 11 665.72 ADS11WG 2008 48 4017 30 3.1 26 3 4 214 11 665.72 ADS11WG 2008 48 4055 75 0.3 26 3 4 214 11 665.72 ADS11WG 2008 31 6701 40 2.3 24 3 177 11 735.42 ADS11WG 2008 32 5012 40 2.3 24 3 177 11 735.42 ADS11WG 2008 33 6731 10 7.4 24 3 177 11 735.42 ADS11WG 2008 33 6731 40 1.3 22 3 135 11 1058.12 ADS11WG 2008 33 6731 40 1.3 22 3 135 11 1058.12 ADS11WG 2008 33 6731 40 1.3 22 3 135 11 1058.12 ADS11WG 2008 0 2007 10 5.6 24 3 4 129 11 533.724 ADS11WG 2008 35 8080 10 4.2 20 3 14 120 11 1601.17 ADS11WG 2008 35 8080 10 4.2 20 3 114 11 6348.72 ADS11WG 2008 35 8080 10 4.2 20 3 114 11 6348.72 ADS11WG 2008 35 8080 20 0.5 20 3 114 11 159.87 ADS11WG 2008 35 8080 20 0.5 20 3 114 11 160.17 ADS11WG 2008 35 8080 20 0.5 20 3 114 11 160.82 ADS11WG 2008 35 8080 20 0.5 20 3 114 11 160.83 ADS11WG 2008 35 8080 50 4.4 20 3 114 11 160.86 ADS11WG 2008 35 8080 50 4.4 20 3 114 11 160.86 ADS11WG 2008 35 8080 50 4.4 20 3 114 11 160.86 ADS11WG 2008 35 8080 50 4.4 20 3 114 11 160.86 ADS11WG 2008 35 8080 50 4.4 20 3 114 11 160.86 ADS11WG 2008 35 8080 50 4.4 20 3 114 11 160.86 ADS11WG 2008 35 8080 50 4.4 20 3 114 11 160.86 ADS11WG 2008 36 9000 50 12.0 18 3 144 114 11 266.862 ADS11WG 2008 37 8080 50 4.4 20 3 114 11 11 60.66 ADS11WG 2008 36 9000 50 12.0 18 3 3 4 10 11 10 11 266.862 ADS11WG 2008 36 9000 50 12.0 18 3 3 4 74 114 11 266.862 ADS11WG 2008 37 8080 50 4.4 20 3 3 4 74 114 11 266.862 ADS11WG 2008 36 9000 50 12.0 18 3 3 4 74 114 11 266.862 ADS11WG 2008 36 9000 50 12.0 18 3 3 4 74 11 1 20.0.793 ADS11WG 2008 37 8080 50 4.8 40 40 40 40 40 40 40 40 40 40 40 40 40	ADS11WG									233	11	
ADSIIWG 2008 48 4017 15 2.0 26 3 4 215 11 429.  ADSIIWG 2008 48 4017 20 2.3 26 3 4 215 11 493.92:  ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 665.72  ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 665.72  ADSIIWG 2008 48 4055 75 0.3 26 3 4 214 11 66.42:  ADSIIWG 2008 32 5012 40 2.3 24 3 177 11 735.42  ADSIIWG 2008 33 6731 10 7.4 24 3 135 11 1185.82  ADSIIWG 2008 33 6731 10 7.4 24 3 135 11 1185.82  ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 1058.12  ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 1058.12  ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 1058.12  ADSIIWG 2008 0 2007 10 5.6 24 3 4 129 11 533.724  ADSIIWG 2008 0 2007 10 5.6 24 3 4 129 11 533.724  ADSIIWG 2008 0 2007 10 5.6 24 3 4 120 11 7472.13*  ADSIIWG 2008 0 2007 20 1.2 24 3 4 120 11 7472.13*  ADSIIWG 2008 35 8080 10 4.2 20 3 114 11 651.44  ADSIIWG 2008 35 8080 10 4.2 20 3 114 11 6348.72*  ADSIIWG 2008 35 8080 10 4.2 20 3 114 11 651.84  ADSIIWG 2008 35 8080 20 0.5 20 3 114 11 664.640  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 6651.64  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 6651.64  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 1838.3*  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 6651.64  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 11 665.66  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 6651.64  ADSIIWG 2008 36 9010 50 12.0 18 3 114 11 1 665.66  ADSIIWG 2008 36 9010 50 12.0 18 3 114 11 1 665.66  ADSIIWG 2008 36 9010 50 12.0 18 3 114 11 1 665.66  ADSIIWG 2008 36 900 2002 10 0.2 26 3 4 114 11 266.86  ADSIIWG 2008 37 68 60 0.2 20 0.2 26 3 4 114 11 266.86  ADSIIWG 2008 36 9402 25 0.2 26 3 4 74 11 266.86  ADSIIWG 2008 36 9402 26 0.3 24 3 4 74 11 266.86  ADSIIWG 2008 36 9402 26 0.3 24 3 4 74 11 260.75  ADSIIWG 2008 37 68 60 0.2 26 3 4 74 11 240.75  ADSIIWG 2008 38 60 200 202 30 0.2 26 3 4 74 11 240.75  ADSIIWG 2008 36 9402 26 0.3 24 3 4 74 11 240.75  ADSIIWG 2008 48 4065 60 2.7 26 3 4 74 11 193.27  ADSIIWG 2008 48 4065 60 2.7 26 3 4 74 11 193.27  ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 193.27  ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 193.27	ADS11WG	2008	36	9345	30	0.1	28	3	4	220	11	21.38709
ADSIIWG 2008 48 4017 15 2.0 26 3 4 215 11 429.  ADSIIWG 2008 48 4017 20 2.3 26 3 4 215 11 493.92:  ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 665.72  ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 665.72  ADSIIWG 2008 48 4055 75 0.3 26 3 4 214 11 66.42:  ADSIIWG 2008 32 5012 40 2.3 24 3 177 11 735.42  ADSIIWG 2008 33 6731 10 7.4 24 3 135 11 1185.82  ADSIIWG 2008 33 6731 10 7.4 24 3 135 11 1185.82  ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 1058.12  ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 1058.12  ADSIIWG 2008 33 6731 40 1.3 22 3 3 135 11 1058.12  ADSIIWG 2008 0 2007 10 5.6 24 3 4 129 11 533.724  ADSIIWG 2008 0 2007 10 5.6 24 3 4 129 11 533.724  ADSIIWG 2008 0 2007 10 5.6 24 3 4 120 11 7472.13*  ADSIIWG 2008 0 2007 20 1.2 24 3 4 120 11 7472.13*  ADSIIWG 2008 35 8080 10 4.2 20 3 114 11 651.44  ADSIIWG 2008 35 8080 10 4.2 20 3 114 11 6348.72*  ADSIIWG 2008 35 8080 10 4.2 20 3 114 11 651.84  ADSIIWG 2008 35 8080 20 0.5 20 3 114 11 664.640  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 6651.64  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 6651.64  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 1838.3*  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 6651.64  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 11 665.66  ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 6651.64  ADSIIWG 2008 36 9010 50 12.0 18 3 114 11 1 665.66  ADSIIWG 2008 36 9010 50 12.0 18 3 114 11 1 665.66  ADSIIWG 2008 36 9010 50 12.0 18 3 114 11 1 665.66  ADSIIWG 2008 36 900 2002 10 0.2 26 3 4 114 11 266.86  ADSIIWG 2008 37 68 60 0.2 20 0.2 26 3 4 114 11 266.86  ADSIIWG 2008 36 9402 25 0.2 26 3 4 74 11 266.86  ADSIIWG 2008 36 9402 26 0.3 24 3 4 74 11 266.86  ADSIIWG 2008 36 9402 26 0.3 24 3 4 74 11 260.75  ADSIIWG 2008 37 68 60 0.2 26 3 4 74 11 240.75  ADSIIWG 2008 38 60 200 202 30 0.2 26 3 4 74 11 240.75  ADSIIWG 2008 36 9402 26 0.3 24 3 4 74 11 240.75  ADSIIWG 2008 48 4065 60 2.7 26 3 4 74 11 193.27  ADSIIWG 2008 48 4065 60 2.7 26 3 4 74 11 193.27  ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 193.27  ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 193.27	ADS11WG	2008	32	5069	10	2.7	16		3	218	11	145.125
ADS1IWG 2008 48 4017 20 2.3 26 3 4 215 11 493.92: ADS1IWG 2008 48 4017 30 3.1 26 3 4 215 11 663.72: ADS1IWG 2008 48 4055 75 0.3 26 3 4 214 11 64.42: ADS1IWG 2008 0 2009 10 1.2 26 3 4 189 11 1601.17: ADS1IWG 2008 32 5012 40 2.3 24 3 177 11 735.42: ADS1IWG 2008 33 6731 10 7.4 24 3 1355 11 11858.12 ADS1IWG 2008 33 6731 10 7.4 24 3 1355 11 11858.12 ADS1IWG 2008 33 6731 40 1.3 22 3 3 135 11 11858.12 ADS1IWG 2008 33 6731 40 1.3 22 3 3 135 11 1058.12 ADS1IWG 2008 33 6731 40 1.3 22 3 3 135 11 1965.08: ADS1IWG 2008 33 6731 40 1.3 22 3 3 135 11 1965.08: ADS1IWG 2008 0 2003 10 0.4 26 3 4 129 11 553.724 ADSIIWG 2008 0 2007 10 5.6 24 3 4 120 11 7472.13' ADSIIWG 2008 0 2007 10 5.6 24 3 4 120 11 7472.13' ADSIIWG 2008 35 8080 10 4.2 20 3 3 114 11 6348.722 ADSIIWG 2008 35 8080 20 0.5 20 3 114 11 16348.724 ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 16348.724 ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 11 559.87; ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 11 559.87; ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 11 159.87; ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 11 159.87; ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 11 159.87; ADSIIWG 2008 35 8080 30 1.2 20 3 3 114 11 11 604.640; ADSIIWG 2008 36 9010 50 12.0 18 3 114 11 11 668.62 ADSIIWG 2008 0 2002 10 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 10 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 10 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 10 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 20 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 34 7034 10 3.0 24 3 4 92 11 400.293 ADSIIWG 2008 0 2008 36 95 0.2 28 3 4 74 11 266.862 ADSIIWG 2008 36 9345 50 0.2 28 3 4 74 11 266.862 ADSIIWG 2008 48 4065 60 0.2 26 3 4 74 11 266.862 ADSIIWG 2008 48 4065 60 0.2 26 3 4 74 11 204.753 ADSIIWG 2008 48 4065 60 0.2 26 3 4 74 11 266.862 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 266.862 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 140.293 ADSIIWG 2008 48 4014 10 0.2 26 3 4 74 11 140.923 ADSIIWG 2008 48 4014 10 0.2 26 3 4 74 11 140.923	ADS11WG	_		4017				3				
ADSIIWG 2008 48 4017 30 3.1 26 3 4 215 11 665.72: ADSIIWG 2008 48 4055 75 0.3 26 3 4 214 11 64.42: ADSIIWG 2008 0 2009 10 1.2 26 3 4 189 11 1601.17: ADSIIWG 2008 32 5012 40 2.3 24 3 177 11 735.42: ADSIIWG 2008 33 6731 20 0.7 4 24 3 135 11 1058.12 ADSIIWG 2008 33 6731 20 0.7 4 24 3 135 11 1058.12 ADSIIWG 2008 33 6731 20 0.7 24 3 135 11 1058.12 ADSIIWG 2008 33 6731 40 1.3 22 3 14 129 11 553.724 ADSIIWG 2008 33 6731 40 1.3 22 3 14 129 11 553.724 ADSIIWG 2008 0 2003 10 0.4 26 3 4 129 11 533.724 ADSIIWG 2008 0 2007 10 5.6 24 3 4 129 11 7472.13* ADSIIWG 2008 0 2007 10 5.6 24 3 4 120 11 7472.13* ADSIIWG 2008 0 2007 10 5.6 24 3 4 120 11 7472.13* ADSIIWG 2008 0 2007 20 1.2 24 3 4 120 11 7472.13* ADSIIWG 2008 35 8080 10 4.2 20 3 114 11 16348.72* ADSIIWG 2008 35 8080 10 4.2 20 3 114 11 159.87* ADSIIWG 2008 35 8080 20 0.5 20 3 114 11 159.87* ADSIIWG 2008 35 8080 30 1.2 20 3 114 11 159.87* ADSIIWG 2008 35 8080 40 0.4 20 3 114 11 159.87* ADSIIWG 2008 35 8080 40 0.4 20 3 114 11 1604.640* ADSIIWG 2008 35 8080 40 0.4 20 3 114 11 1604.640* ADSIIWG 2008 35 8080 40 0.4 20 3 114 11 1604.640* ADSIIWG 2008 35 8080 40 0.4 20 3 114 11 1604.640* ADSIIWG 2008 36 9010 50 12.0 18 3 114 11 1666.50.44 ADSIIWG 2008 36 9010 50 12.0 18 3 114 11 1666.60.40* ADSIIWG 2008 36 9010 50 12.0 18 3 114 11 1266.862 ADSIIWG 2008 0 2002 10 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 36 934 50 0.2 28 3 4 74 11 400.293 ADSIIWG 2008 36 934 50 0.2 28 3 4 74 11 400.293 ADSIIWG 2008 36 934 50 0.2 28 3 4 74 11 240.774 ADSIIWG 2008 36 934 50 0.2 28 3 4 74 11 240.775 ADSIIWG 2008 48 4065 60 2.7 26 3 4 74 11 240.774 ADSIIWG 2008 48 4065 60 2.7 26 3 4 74 11 140.023 ADSIIWG 2008 48 4065 50 1.3 26 3 4 74 11 193.277 ADSIIWG 2008 48 4065 50 1.3 26 3 4 74 11 193.277 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 140.023 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 140.023			48	4017					4	215	11	493,925
ADS1IWG 2008 48 4055 75 0.3 26 3 4 214 11 64.42: ADS1IWG 2008 0 2009 10 1.2 26 3 4 189 11 1601.17 ADS1IWG 2008 32 5012 40 2.3 24 3 177 11 735.42: ADS1IWG 2008 33 6731 10 7.4 24 3 135 11 1185.8: ADS1IWG 2008 33 6731 20 0.7 24 3 135 11 1085.12 ADS1IWG 2008 33 6731 40 1.3 22 3 3 135 11 1085.12 ADS1IWG 2008 33 6731 40 1.3 22 3 3 135 11 1085.0: ADS1IWG 2008 33 6731 40 1.3 22 3 3 135 11 1085.0: ADS1IWG 2008 0 2003 10 0.4 26 3 4 129 11 533.724 ADS1IWG 2008 0 2007 10 5.6 24 3 4 129 11 533.724 ADS1IWG 2008 0 2007 10 5.6 24 3 4 120 11 7472.137 ADS1IWG 2008 0 2007 20 1.2 24 3 4 120 11 7472.137 ADS1IWG 2008 35 8080 10 4.2 20 3 114 11 1601.74 ADS1IWG 2008 35 8080 20 0.5 20 3 114 11 159.87; ADS1IWG 2008 35 8080 20 0.5 20 3 114 11 159.87; ADS1IWG 2008 35 8080 30 1.2 20 3 114 11 159.87; ADS1IWG 2008 35 8080 40 0.4 20 3 114 11 159.87; ADS1IWG 2008 35 8080 40 0.4 20 3 114 11 1604.640; ADS1IWG 2008 35 8080 50 4.4 20 3 114 11 1604.640; ADS1IWG 2008 36 9010 50 12.0 18 3 114 11 665.044 ADS1IWG 2008 36 9010 50 12.0 18 3 114 11 1666.602 ADS1IWG 2008 36 9010 50 12.0 18 3 114 11 266.862 ADS1IWG 2008 0 2002 10 0.2 26 3 4 114 11 266.862 ADS1IWG 2008 0 2002 20 0.2 26 3 4 114 11 266.862 ADS1IWG 2008 0 2002 20 0.2 26 3 4 114 11 266.862 ADS1IWG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 20 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 20 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2005 50 1.8 28 3 4 74 11 240.793 ADSIIWG 2008 36 9345 50 0.2 28 3 4 74 11 240.793 ADSIIWG 2008 36 9345 50 0.2 28 3 4 74 11 240.793 ADSIIWG 2008 48 4065 60 2.7 26 3 4 74 11 240.793 ADSIIWG 2008 48 4065 60 2.7 26 3 4 74 11 193.277 ADSIIWG 2008 48 4065 60 2.7 26 3 4 74 11 193.277 ADSIIWG 2008 48 4061 10 0.1 28 3 4 74 11 193.277 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 193.277 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 140.093	ADS11WG		48	4017			26		4			665.725
ADS11WG	ADS11WG	2008	48	4055	75	0.3	26		4	214	11	64.425
ADS11WG	ADS11WG	2008	0	2009	10	1.2	26		4	189	11	1601.172
ADS11WG			32									
ADS11WG	ADS11WG	2008	33	6731	10	7.4	24				11	11185.85
ADS11WG	ADS11WG	2008	33	6731	20	0.7	24				11	1058.121
ADSIIWG 2008 0 2007 10 5.6 24 3 4 120 11 7472.13° ADSIIWG 2008 0 2007 20 1.2 24 3 4 120 11 1601.17° ADSIIWG 2008 35 8080 10 4.2 20 3 1114 11 634.872° ADSIIWG 2008 35 8080 20 0.5 20 3 1114 11 159.87° ADSIIWG 2008 35 8080 30 1.2 20 3 1114 11 19.87° ADSIIWG 2008 35 8080 40 0.4 20 3 1114 11 1604.640° ADSIIWG 2008 35 8080 40 0.4 20 3 1114 11 604.640° ADSIIWG 2008 35 8080 40 0.4 20 3 1114 11 604.640° ADSIIWG 2008 35 8080 50 4.4 20 3 1114 11 604.640° ADSIIWG 2008 36 9010 50 12.0 18 3 114 11 18139.2° ADSIIWG 2008 36 9010 50 12.0 18 3 1114 11 1266.862 ADSIIWG 2008 0 2002 10 0.2 26 3 4 1114 11 266.862 ADSIIWG 2008 0 2002 20 0.2 26 3 4 1114 11 266.862 ADSIIWG 2008 0 2002 30 0.2 26 3 4 1114 11 266.862 ADSIIWG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 32 26 3 95 0.2 28 3 4 105 11 400.293 ADSIIWG 2008 32 63 95 0.2 28 3 4 80 11 266.862 ADSIIWG 2008 32 63 95 0.2 28 3 4 80 11 266.862 ADSIIWG 2008 32 63 95 0.2 28 3 4 80 11 266.862 ADSIIWG 2008 36 28 60 0.2 26 3 4 74 11 240.754 ADSIIWG 2008 36 9345 50 0.2 28 3 4 74 11 240.754 ADSIIWG 2008 36 9345 50 0.2 28 3 4 74 11 266.862 ADSIIWG 2008 36 9402 26 0.3 24 3 4 74 11 240.754 ADSIIWG 2008 48 4065 50 1.3 26 3 4 74 11 279.175 ADSIIWG 2008 48 4065 50 1.3 26 3 4 74 11 279.175 ADSIIWG 2008 48 4065 50 1.3 26 3 4 74 11 279.175 ADSIIWG 2008 48 4065 60 2.7 26 3 4 74 11 279.175 ADSIIWG 2008 48 4065 60 2.7 26 3 4 74 11 279.175 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 1 279.175 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 1 279.175 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 1 279.175 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 1 279.175 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 1 279.175 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 1 279.175 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 1 279.175 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 1 408.025	ADS11WG	2008	33	6731	40	1.3	22				11	1965.082
ADSIIWG 2008 0 2007 20 1.2 24 3 4 120 11 1601.17; ADSIIWG 2008 35 8080 10 4.2 20 3 114 11 6348.72; ADSIIWG 2008 35 8080 20 0.5 20 3 114 11 1538.3; ADSIIWG 2008 35 8080 20 0.5 20 3 114 11 1538.3; ADSIIWG 2008 35 8080 20 0.5 20 3 114 11 1538.3; ADSIIWG 2008 35 8080 40 0.4 20 3 114 11 604.640; ADSIIWG 2008 35 8080 50 4.4 20 3 114 11 604.640; ADSIIWG 2008 36 9010 50 12.0 18 3 114 11 16651.04; ADSIIWG 2008 36 9010 50 12.0 18 3 114 11 18139.2; ADSIIWG 2008 0 2002 10 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 20 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADSIIWG 2008 0 2002 30 0.2 26 3 4 105 11 400.293 ADSIIWG 2008 0 2005 10 0.3 24 3 4 105 11 400.293 ADSIIWG 2008 0 2018 35 0.3 24 3 4 92 11 400.293 ADSIIWG 2008 32 63 95 0.2 28 3 4 80 11 266.862 ADSIIWG 2008 32 63 95 0.2 28 3 4 80 11 266.862 ADSIIWG 2008 36 9402 26 0.2 28 3 4 74 11 240.293 ADSIIWG 2008 36 9402 26 0.3 24 3 4 80 11 266.862 ADSIIWG 2008 36 9402 26 0.3 24 3 4 74 11 240.293 ADSIIWG 2008 36 9402 26 0.3 24 3 4 74 11 240.293 ADSIIWG 2008 36 84 60 0.2 26 3 4 74 11 240.793 ADSIIWG 2008 36 9402 26 0.3 24 3 4 74 11 266.862 ADSIIWG 2008 36 9402 26 0.3 24 3 4 74 11 266.862 ADSIIWG 2008 36 9402 26 0.3 24 3 4 74 11 266.862 ADSIIWG 2008 36 9402 26 0.3 24 3 4 74 11 266.862 ADSIIWG 2008 36 9402 26 0.3 24 3 4 74 11 279.175 ADSIIWG 2008 48 4065 50 1.3 26 3 4 74 11 279.175 ADSIIWG 2008 48 4065 50 1.3 26 3 4 74 11 279.175 ADSIIWG 2008 48 4065 50 1.3 26 3 4 74 11 279.175 ADSIIWG 2008 48 4065 50 1.3 26 3 4 74 11 279.175 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 21.475 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 21.475 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 24.794 ADSIIWG 2008 48 4011 10 0.1 28 3 4 74 11 24.794 ADSIIWG 2008 48 4014 10 0.2 26 3 4 74 11 408.025 ADSIIWG 2008 48 4014 10 0.2 26 3 4 74 11 408.025	ADS11WG	2008	0	2003	10	0.4	26	3	4	129	11	533.7241
ADS11WG 2008 35 8080 10 4.2 20 3 114 11 6348.72: ADS11WG 2008 35 8080 20 0.5 20 3 114 11 159.87: ADS11WG 2008 35 8080 30 1.2 20 3 114 11 383. ADS11WG 2008 35 8080 40 0.4 20 3 114 11 604.640: ADS11WG 2008 35 8080 50 4.4 20 3 114 11 604.640: ADS11WG 2008 35 8080 50 4.4 20 3 114 11 6651.044 ADS11WG 2008 36 9010 50 12.0 18 3 114 11 1266.862 ADS11WG 2008 0 2002 10 0.2 26 3 4 114 11 266.862 ADS11WG 2008 0 2002 20 0.2 26 3 4 114 11 266.862 ADS11WG 2008 0 2002 20 0.2 26 3 4 114 11 266.862 ADS11WG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADS11WG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADS11WG 2008 0 2005 10 0.3 24 3 4 105 11 400.293 ADS11WG 2008 0 2018 35 0.3 24 3 4 105 11 400.293 ADS11WG 2008 0 2018 35 0.3 24 3 4 992 11 400.293 ADS11WG 2008 32 63 95 0.2 28 3 4 80 11 266.862 ADS11WG 2008 32 63 95 0.2 28 3 4 80 11 266.862 ADS11WG 2008 32 63 100 0.2 28 3 4 80 11 266.862 ADS11WG 2008 32 63 100 0.2 28 3 4 80 11 266.862 ADS11WG 2008 32 63 100 0.2 28 3 4 74 11 2401.753 ADS11WG 2008 36 9845 50 0.2 28 3 4 74 11 2401.753 ADS11WG 2008 36 9845 50 0.2 28 3 4 74 11 266.862 ADS11WG 2008 36 9845 50 0.2 28 3 4 74 11 2401.753 ADS11WG 2008 48 4065 60 0.2 26 3 4 74 11 279.173 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 279.173 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 279.173 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 279.173 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 279.173 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 279.173 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 279.173 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 279.173 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 279.173 ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.473 ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.473 ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.473 ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.473 ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.473 ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.473 ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.473 ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 21.473	ADS11WG	2008	0	2007	10	5.6	24	3	4	120	11	7472.137
ADS11WG 2008 35 8080 20 0.5 20 3 114 11 159.87: ADS11WG 2008 35 8080 30 1.2 20 3 114 11 383.  ADS11WG 2008 35 8080 30 1.2 20 3 114 11 604.640: ADS11WG 2008 35 8080 40 0.4 20 3 114 11 604.640: ADS11WG 2008 35 8080 50 4.4 20 3 114 11 6651.04: ADS11WG 2008 36 9010 50 12.0 18 3 114 11 18139.2: ADS11WG 2008 0 2002 10 0.2 26 3 4 114 11 266.862  ADS11WG 2008 0 2002 20 0.2 26 3 4 114 11 266.862  ADS11WG 2008 0 2002 20 0.2 26 3 4 114 11 266.862  ADS11WG 2008 0 2002 30 0.2 26 3 4 114 11 266.862  ADS11WG 2008 0 2002 30 0.2 26 3 4 114 11 266.862  ADS11WG 2008 0 2005 10 0.3 24 3 4 105 11 400.293  ADS11WG 2008 0 2018 35 0.3 24 3 4 105 11 400.293  ADS11WG 2008 34 7034 10 3.0 24 3 4 92 11 400.293  ADS11WG 2008 32 63 95 0.2 28 3 4 80 11 266.862  ADS11WG 2008 32 63 100 0.2 28 3 4 80 11 266.862  ADS11WG 2008 32 63 100 0.2 28 3 4 80 11 266.862  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 2401.753  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 2401.753  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 2401.753  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 2401.753  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 2401.753  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 2401.753  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 2401.753  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 2401.753  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 2791.753  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 2791.753  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 2791.753  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 2791.753  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 2791.753  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.475	ADS11WG	2008	0	2007	20	1.2	24	3	4	120	11	1601.172
ADS11WG 2008 35 8080 30 1.2 20 3 114 11 383.  ADS11WG 2008 35 8080 40 0.4 20 3 114 11 604.640.  ADS11WG 2008 35 8080 50 4.4 20 3 114 11 6651.040.  ADS11WG 2008 36 9010 50 12.0 18 3 114 11 18139.25  ADS11WG 2008 0 2002 10 0.2 26 3 4 114 11 266.862.  ADS11WG 2008 0 2002 20 0.2 26 3 4 114 11 266.862.  ADS11WG 2008 0 2002 30 0.2 26 3 4 114 11 266.862.  ADS11WG 2008 0 2002 30 0.2 26 3 4 114 11 266.862.  ADS11WG 2008 0 2005 10 0.3 24 3 4 105 11 400.293.  ADS11WG 2008 0 2018 35 0.3 24 3 4 92 11 400.293.  ADS11WG 2008 31 400.293.  ADS11WG 2008 32 63 95 0.2 28 3 4 80 11 266.862.  ADS11WG 2008 32 63 95 0.2 28 3 4 80 11 266.862.  ADS11WG 2008 32 63 95 0.2 28 3 4 80 11 266.862.  ADS11WG 2008 32 63 100 0.2 28 3 4 80 11 266.862.  ADS11WG 2008 36 28 60 0.2 28 3 4 74 11 2401.753.  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 2407.754.  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 2407.754.  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 2407.754.  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 2407.754.  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 2407.754.  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 2407.754.  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 2407.754.  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 2407.754.  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 279.175.  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 279.175.  ADS11WG 2008 36 9402 26 0.3 24 3 4 74 11 279.175.  ADS11WG 2008 36 9402 26 0.3 24 3 4 74 11 279.175.  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 279.175.  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 193.275.  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 193.275.  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 193.275.  ADS11WG 2008 48 4061 10 0.1 28 3 4 74 11 193.275.  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 193.275.  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 193.275.  ADS11WG 2008 48 4014 10 0.2 2 26 3 4 74 11 193.275.  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 140.80.293.	ADS11WG	2008	35	8080	10	4.2	20		3	114	11	6348.725
ADS11WG   2008   35   8080   40   0.4   20   3   114   11   604.640;   ADS11WG   2008   35   8080   50   4.4   20   3   114   11   11   6651.044;   ADS11WG   2008   36   9010   50   12.0   18   3   114   11   11   1266.862;   ADS11WG   2008   0   2002   10   0.2   26   3   4   114   11   266.862;   ADS11WG   2008   0   2002   20   0.2   26   3   4   114   11   266.862;   ADS11WG   2008   0   2002   30   0.2   26   3   4   114   11   266.862;   ADS11WG   2008   0   2002   30   0.2   26   3   4   114   11   266.862;   ADS11WG   2008   0   2005   10   0.3   24   3   4   105   11   400.293;   ADS11WG   2008   0   2018   35   0.3   24   3   4   92   11   400.293;   ADS11WG   2008   34   7034   10   3.0   24   3   91   11   959.25;   ADS11WG   2008   32   63   95   0.2   28   3   4   80   11   266.862;   ADS11WG   2008   32   63   100   0.2   28   3   4   80   11   266.862;   ADS11WG   2008   36   28   60   0.2   28   3   4   74   11   2401.755;   ADS11WG   2008   36   28   60   0.2   26   3   4   74   11   2401.755;   ADS11WG   2008   36   9345   50   0.2   28   3   4   74   11   240.293;   ADS11WG   2008   36   9402   26   0.3   24   3   4   74   11   279.175;   ADS11WG   2008   48   4065   50   1.3   26   3   4   74   11   279.175;   ADS11WG   2008   48   4065   50   1.3   26   3   4   74   11   279.175;   ADS11WG   2008   48   4065   50   1.3   26   3   4   74   11   279.175;   ADS11WG   2008   48   4065   50   1.3   26   3   4   74   11   193.275;   ADS11WG   2008   48   4065   50   1.3   26   3   4   74   11   193.275;   ADS11WG   2008   48   4065   50   2.7   26   3   4   74   11   193.275;   ADS11WG   2008   48   4011   10   0.1   28   3   4   74   11   193.275;   ADS11WG   2008   48   4011   10   0.1   28   3   4   74   11   193.275;   ADS11WG   2008   48   4011   10   0.2   26   3   4   74   11   1408.025;   ADS11WG   2008   48   4014   10   0.2   26   3   4   74   11   1408.025;   ADS11WG   2008   48   4014   15   1.9   26   3   4   74   11   386.55;   ADS11WG   2008   48   4014   15   1.9   26   3   4	ADS11WG	2008	35	8080	20	0.5	20		3	114	11	159.875
ADS11WG 2008 35 8080 50 4.4 20 3 114 11 6651.04c ADS11WG 2008 36 9010 50 12.0 18 3 114 11 18139.2 ADS11WG 2008 0 2002 10 0.2 26 3 4 114 11 266.862 ADS11WG 2008 0 2002 20 0.2 26 3 4 114 11 266.862 ADS11WG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADS11WG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADS11WG 2008 0 2005 10 0.3 24 3 4 105 11 400.293 ADS11WG 2008 0 2018 35 0.3 24 3 4 105 11 400.293 ADS11WG 2008 34 7034 10 3.0 24 3 4 92 11 400.293 ADS11WG 2008 32 63 95 0.2 28 3 4 80 11 266.862 ADS11WG 2008 32 63 95 0.2 28 3 4 80 11 266.862 ADS11WG 2008 32 63 100 0.2 28 3 4 80 11 266.862 ADS11WG 2008 36 28 60 0.2 28 3 4 74 11 2401.754 ADS11WG 2008 36 28 60 0.2 26 3 4 74 11 266.862 ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 266.862 ADS11WG 2008 36 9402 26 0.3 24 3 4 74 11 266.862 ADS11WG 2008 36 9402 26 0.3 24 3 4 74 11 400.293 ADS11WG 2008 36 9402 26 0.3 24 3 4 74 11 279.175 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 400.293 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 193.275 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 193.275 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 193.275 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 193.275 ADS11WG 2008 48 4061 10 0.9 26 3 4 74 11 193.275 ADS11WG 2008 48 4061 10 0.1 28 3 4 74 11 193.275 ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475 ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475 ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475 ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475 ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475 ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475 ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475 ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 21.475 ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 24.975 ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 408.025 ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 408.025	ADS11WG	2008	35	8080	30	1.2	20		3	114	11	383.7
ADS11WG 2008 36 9010 50 12.0 18 3 114 11 18139.2  ADS11WG 2008 0 2002 10 0.2 26 3 4 114 11 266.862  ADS11WG 2008 0 2002 20 0.2 26 3 4 114 11 266.862  ADS11WG 2008 0 2002 30 0.2 26 3 4 114 11 266.862  ADS11WG 2008 0 2002 30 0.2 26 3 4 114 11 266.862  ADS11WG 2008 0 2005 10 0.3 24 3 4 105 11 400.293  ADS11WG 2008 0 2018 35 0.3 24 3 4 92 11 400.293  ADS11WG 2008 34 7034 10 3.0 24 3 91 11 959.2  ADS11WG 2008 32 63 95 0.2 28 3 4 80 11 266.862  ADS11WG 2008 32 63 100 0.2 28 3 4 80 11 266.862  ADS11WG 2008 32 63 100 0.2 28 3 4 80 11 266.862  ADS11WG 2008 36 28 60 0.2 28 3 4 74 11 2401.754  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 40.293  ADS11WG 2008 36 9402 26 0.3 24 3 4 74 11 40.293  ADS11WG 2008 48 4065 50 1.3 26 3 4 74 11 279.175  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 279.175  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 193.275  ADS11WG 2008 48 4061 10 0.9 26 3 4 74 11 193.275  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 193.275  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 408.025	ADS11WG	2008	35	8080	40	0.4	20		3	114	11	604.6405
ADS11WG	ADS11WG	2008	35	8080	50	4.4	20		3	114	11	6651.046
ADS11WG 2008 0 2002 20 0.2 26 3 4 114 11 266.862  ADS11WG 2008 0 2002 30 0.2 26 3 4 114 11 266.862  ADS11WG 2008 0 2005 10 0.3 24 3 4 105 11 400.293  ADS11WG 2008 0 2018 35 0.3 24 3 4 92 11 400.293  ADS11WG 2008 34 7034 10 3.0 24 3 91 11 959.2  ADS11WG 2008 32 63 95 0.2 28 3 4 80 11 266.862  ADS11WG 2008 32 63 100 0.2 28 3 4 80 11 266.862  ADS11WG 2008 36 28 60 0.2 28 3 4 74 11 2401.754  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 400.293  ADS11WG 2008 36 9402 26 0.3 24 3 4 74 11 400.293  ADS11WG 2008 48 4065 50 1.3 26 3 4 74 11 579.82  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 400.293	ADS11WG	2008	36	9010	50	12.0	18		3	114	11	18139.22
ADS11WG 2008 0 2002 30 0.2 26 3 4 114 11 266.862 ADS11WG 2008 0 2005 10 0.3 24 3 4 105 11 400.293 ADS11WG 2008 0 2018 35 0.3 24 3 4 92 11 400.293 ADS11WG 2008 34 7034 10 3.0 24 3 91 11 959.22 ADS11WG 2008 32 63 95 0.2 28 3 4 80 11 266.862 ADS11WG 2008 32 63 100 0.2 28 3 4 80 11 266.862 ADS11WG 2008 0 2002 50 1.8 28 3 4 74 11 2401.755 ADS11WG 2008 36 28 60 0.2 26 3 4 74 11 400.293 ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 400.293 ADS11WG 2008 36 9402 26 0.3 24 3 4 74 11 400.293 ADS11WG 2008 48 4065 50 1.3 26 3 4 74 11 279.175 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 279.175 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 1 979.25 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 1 979.25 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 1 979.25 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 1 979.25 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 1 979.25 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 1 979.25 ADS11WG 2008 48 4067 10 0.9 26 3 4 74 11 1 979.25 ADS11WG 2008 48 4087 10 0.9 26 3 4 74 11 1 979.25 ADS11WG 2008 48 4087 10 0.9 26 3 4 74 11 1 979.25 ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 1 93.25 ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475 ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 21.475 ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 408.025 ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025 ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025	ADS11WG	2008	0	2002	10	0.2	26	3	4	114	11	266.8621
ADS11WG	ADS11WG			2002							11	266.8621
ADS11WG 2008 0 2018 35 0.3 24 3 4 92 11 400.293  ADS11WG 2008 34 7034 10 3.0 24 3 91 11 959.25  ADS11WG 2008 32 63 95 0.2 28 3 4 80 11 266.862  ADS11WG 2008 32 63 100 0.2 28 3 4 80 11 266.862  ADS11WG 2008 0 2002 50 1.8 28 3 4 74 11 2401.758  ADS11WG 2008 36 28 60 0.2 26 3 4 74 11 266.862  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 279.175  ADS11WG 2008 36 9402 26 0.3 24 3 4 74 11 279.175  ADS11WG 2008 48 4065 50 1.3 26 3 4 74 11 279.175  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 279.175  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 579.825  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 193.275  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 193.275  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 193.275  ADS11WG 2008 48 4061 10 0.9 26 3 4 74 11 193.275  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 408.025  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 408.025  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025	ADS11WG		0	2002					4	114	11	
ADS11WG 2008 34 7034 10 3.0 24 3 91 11 959.25  ADS11WG 2008 32 63 95 0.2 28 3 4 80 11 266.862  ADS11WG 2008 32 63 100 0.2 28 3 4 80 11 266.862  ADS11WG 2008 0 2002 50 1.8 28 3 4 74 11 2401.755  ADS11WG 2008 36 28 60 0.2 26 3 4 74 11 266.862  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 42.77418  ADS11WG 2008 36 9402 26 0.3 24 3 4 74 11 400.293  ADS11WG 2008 48 4065 50 1.3 26 3 4 74 11 279.175  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 579.825  ADS11WG 2008 48 4087 10 0.9 26 3 4 74 11 193.275  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 408.025  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025	ADS11WG	2008	0			0.3					11	
ADS11WG 2008 32 63 95 0.2 28 3 4 80 11 266.862  ADS11WG 2008 32 63 100 0.2 28 3 4 80 11 266.862  ADS11WG 2008 0 2002 50 1.8 28 3 4 74 11 2401.758  ADS11WG 2008 36 28 60 0.2 26 3 4 74 11 266.862  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 266.862  ADS11WG 2008 36 9402 26 0.3 24 3 4 74 11 400.293  ADS11WG 2008 48 4065 50 1.3 26 3 4 74 11 279.175  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 579.825  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 193.275  ADS11WG 2008 48 4087 10 0.9 26 3 4 74 11 193.275  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 408.025  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025	ADS11WG		0	2018	35					-	11	
ADS11WG 2008 32 63 100 0.2 28 3 4 80 11 266.862  ADS11WG 2008 0 2002 50 1.8 28 3 4 74 11 2401.758  ADS11WG 2008 36 28 60 0.2 26 3 4 74 11 266.862  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 266.862  ADS11WG 2008 36 9402 26 0.3 24 3 4 74 11 400.293  ADS11WG 2008 48 4065 50 1.3 26 3 4 74 11 279.173  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 579.823  ADS11WG 2008 48 4087 10 0.9 26 3 4 74 11 193.273  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.473  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.473  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.473  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 21.473  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 21.473  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 21.473  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 408.023  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.023  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.023  ADS11WG 2008 48 4014 20 1.8 26 3 4 74 11 386.55	ADS11WG										11	
ADS11WG 2008 36 28 60 0.2 26 3 4 74 11 2401.758 ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 266.862 ADS11WG 2008 36 9402 26 0.3 24 3 4 74 11 400.293 ADS11WG 2008 48 4065 50 1.3 26 3 4 74 11 279.175 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 579.825 ADS11WG 2008 48 4087 10 0.9 26 3 4 74 11 193.275 ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475 ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475 ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475 ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 21.475 ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 21.475 ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 21.475 ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 21.475 ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 408.025 ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 408.025 ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025 ADS11WG 2008 48 4014 20 1.8 26 3 4 74 11 386.55	ADS11WG				95						11	266.8621
ADS11WG 2008 36 28 60 0.2 26 3 4 74 11 266.862  ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 42.77418  ADS11WG 2008 36 9402 26 0.3 24 3 4 74 11 400.293  ADS11WG 2008 48 4065 50 1.3 26 3 4 74 11 279.175  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 579.825  ADS11WG 2008 48 4087 10 0.9 26 3 4 74 11 193.275  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 10 0.2 26 3 4 74 11 21.475  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 42.95  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 408.025  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 386.55	ADS11WG		32			0.2					11	
ADS11WG 2008 36 9345 50 0.2 28 3 4 74 11 42.77418 ADS11WG 2008 36 9402 26 0.3 24 3 4 74 11 400.293 ADS11WG 2008 48 4065 50 1.3 26 3 4 74 11 279.175 ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 579.825 ADS11WG 2008 48 4087 10 0.9 26 3 4 74 11 193.275 ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475 ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475 ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 21.475 ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 408.025 ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025 ADS11WG 2008 48 4014 20 1.8 26 3 4 74 11 386.55	ADS11WG	2008	0	2002	50				4	74	11	
ADS11WG 2008 36 9402 26 0.3 24 3 4 74 11 400.293  ADS11WG 2008 48 4065 50 1.3 26 3 4 74 11 279.175  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 579.825  ADS11WG 2008 48 4087 10 0.9 26 3 4 74 11 193.275  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 42.95  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025  ADS11WG 2008 48 4014 20 1.8 26 3 4 74 11 386.55	ADS11WG										11	
ADS11WG 2008 48 4065 50 1.3 26 3 4 74 11 279.175  ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 579.825  ADS11WG 2008 48 4087 10 0.9 26 3 4 74 11 193.275  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 42.95  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025  ADS11WG 2008 48 4014 20 1.8 26 3 4 74 11 386.55	ADS11WG		36	9345	50						11	
ADS11WG 2008 48 4065 60 2.7 26 3 4 74 11 579.825  ADS11WG 2008 48 4087 10 0.9 26 3 4 74 11 193.275  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 42.95  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025  ADS11WG 2008 48 4014 20 1.8 26 3 4 74 11 386.55	ADS11WG	2008	36	9402		0.3	24				11	
ADS11WG 2008 48 4087 10 0.9 26 3 4 74 11 193.275  ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 42.95  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025  ADS11WG 2008 48 4014 20 1.8 26 3 4 74 11 386.55	ADS11WG	2008	48	4065	50						11	
ADS11WG 2008 48 4011 10 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.475  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 42.95  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025  ADS11WG 2008 48 4014 20 1.8 26 3 4 74 11 386.55	ADS11WG										11	
ADS11WG 2008 48 4011 13 0.1 28 3 4 74 11 21.47:  ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 42.9:  ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.02:  ADS11WG 2008 48 4014 20 1.8 26 3 4 74 11 386.5:	ADS11WG	2008	48	4087	10	0.9		3	4	74	11	193.275
ADS11WG 2008 48 4014 10 0.2 26 3 4 74 11 42.95 ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025 ADS11WG 2008 48 4014 20 1.8 26 3 4 74 11 386.55	ADS11WG					0.1			4		11	
ADS11WG 2008 48 4014 15 1.9 26 3 4 74 11 408.025 ADS11WG 2008 48 4014 20 1.8 26 3 4 74 11 386.55	ADS11WG		48	4011	13						11	
ADS11WG 2008 48 4014 20 1.8 26 3 4 74 11 386.55	ADS11WG			4014					4		11	
	ADS11WG					1.9					11	408.025
ADS11WG   2008   48   4014   25   0.5   26   3   4   74   11   107.375	ADS11WG	2008										
	ADS11WG	2008	48	4014	25	0.5	26	3	4	74	11	107.375

i e		1	NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	11	11
			ROUTE_				MSRIS	MSRIS_	MSRISD_	MSRISD_	
NEED 1	FISCAL_	AGENCY_	NUMBE	SECTION_		ROADWAY_ WIDTH				ADS_NUMBE	
NEED 1	YEAR	CODE	R	NUMBER	LENGTH		TYPE_CODE	TYPE_CODE		R	BIA_CTI
ADS11WG	2008	48	4017	10	1.2	26	3	4	74		
ADS11WG	2008	48	4017	35	1.1	26	3	4	74		236.225
ADS11WG	2008	48	4028	10	0.1	28	3	4	74		21.475
ADS11WG	2008	48	4028	15	1.0	28	3	4	74		214.75
ADS11WG	2008	48	4028	20	1.0	28	3	4	74	11	214.75
ADS11WG	2008	48	4028	40	1.4	28	3	4	74	11	300.65
ADS11WG	2008	48	4028	45	0.1	28	3	4	74	11	21.475
ADS11WG	2008	48	4030	20	0.4	28	3	4	74	11	85.9
ADS11WG	2008	48	4030	25	0.4	26	3	4	74	11	85.9
ADS11WG	2008	48	4047	20	2.2	26	3	4	74	11	472.45
ADS11WG	2008	48	4047	30	1.5	26	3	4	74	11	322.125
ADS11WG	2008	48	4078	10	0.8	30	3	5	74	11	26.16
ADS11WG Total	ADS 11	(FADT 5	(0-250) r	needing or	82.0						71139.17
ADS11WE	2008	48	4055	12	1.1	30	3	5	10	11	236.225
ADS11WE Total	ADS 11	(FADT <	(50) need	ding only	1.1						236.225
ADS11SW	2008	33	42	38	1.9	22		4	4898	11	318.725
ADS11SW	2008	33	6485	13	1.7	24		1	4535	-	2958.371
ADS11SW	2008	33	6485	16	0.5	24		1	4535		+
ADS11SW	2008	36	110	60	0.1	22		1	3610		166.8928
ADS11SW	2008	36	110	80	0.6	24		1	3610		
ADS11SW	2008	33	42	40	1.7	22		4	3438		285.175
ADS11SW	2008	33	42	50	1.1	26	3	4	3196		184.525
ADS11SW	2008	36	108	60	0.1	22	3	4	2948		+
ADS11SW	2008	36	60	30	0.7	22		4	2894		
ADS11SW	2008	36	60	15	7.5	22		4	2790		
ADS11SW	2008	33	6410	20	2.8	22		1	2713		
ADS11SW	2008	33	6410	30	1.1	22		1	2713		182.655
ADS11SW ADS11SW	2008	33	6410	40	1.1	20		4	2713		184.525
ADS11SW ADS11SW	2008	35	8077	30	1.4	30	3	4	2609		-
ADS11SW ADS11SW	2008	0	2011	10	0.5	24	3	4	2536		
ADS11SW ADS11SW	2008	0	2011	30	0.3	24	3	4	2536		
ADS11SW ADS11SW	2008	0	2011	31	1.9	24	3		2536		1177.58
ADS11SW ADS11SW	2008	0	2011	40	0.7	24	3		2536		1
ADS11SW ADS11SW	2008	0	2011	50	0.7	24	3		2536		
ADS11SW ADS11SW	2008	0	2011	60	0.1	24	3	4			
ADS11SW ADS11SW	2008	0	2011	70	0.1	24	3		2536		
ADS11SW ADS11SW	2008	0	2011	80	0.2	24	3				
ADS11SW ADS11SW	2008	0	2011	90	0.3	24	3	4	2536		
ADS11SW ADS11SW	2008	0	2011	100	0.2	24	3				
ADS11SW ADS11SW	2008	-	2011	110		24	3				123.9558
ADS11SW ADS11SW	2008	0	2011	120	0.2	24	3				247.9116
ADS11SW ADS11SW	2008		2011	130	0.4	24			2536		
ADS11SW ADS11SW	2008	0	2011	20	0.1	28	3				-
	2008		9202	40		18	4				
ADS11SW ADS11SW	2008	36 36	30	20	1.0 0.4	22		1	2517 2464		
						22	2	1			
ADS11SW	2008	36	30	10	1.5	_	3	4	2464		
ADS11SW	2008	36	30	15	1.5	28	3				
ADS11SW	2008	33	21	90	0.6	24		1	2443		
ADS11SW	2008	33	619	20	0.5	30		1	2242		
ADS11SW	2008	33	619	30	0.2	30		1	2242		
ADS11SW	2008	33	619	40	0.5	30		1	2242		
ADS11SW	2008	33	619	60	1.3	30		1	2242		1
ADS11SW	2008	35	8066	130	1.1	28	3				
ADS11SW	2008	35	8066	135	1.3	28	3		1977		
ADS11SW	2008	33	42	30	2.9	22		4			
ADS11SW	2008	33	42	36	5.4	22		4			
ADS11SW	2008	33	21	50	0.8	24		9	1795		
ADS11SW	2008	34	7046	33	1.7	22		4			
ADS11SW	2008	34	7046	36	4.8	22		4	1775	11	2134.8
ADS11SW	2008	34	7046	40	0.3	22		4	1775	11	133.425
ADS11SW	2008	48	3003	30	1.0	24	3	4	1734	11	444.75

i	- 11	1	NEED	т. пібг	IWATG	EOMETR	IC DESIG	N DEFICI	ENCIES	1	n
NEED 1		AGENCY_	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS_ SHOULDER_ TYPE CODE	MSRIS_ SURFACE_ TYPE_CODE	MSRISD_ FUTURE_AD T_COUNT	MSRISD_ ADS_NUMBE R	MSRISD_ BIA_CTI
ADS11SW	2008	33	16		0.3	30	3	4	1718	11	
ADS11SW	2008	0	2009	20	0.1	26	3	4	1570	11	
ADS11SW	2008	0	2009	30	0.2	26	3	4	1570	11	
ADS11SW	2008	0	2009	40	0.2	26	3	4	1570	11	
ADS11SW	2008	0	2009	50	6.2	26	3	4	1570	11	
ADS11SW	2008	32	19	20	12.2	26	3	4	1525	11	
ADS11SW	2008	35	65	60	6.5		3	4	1467	11	
ADS11SW	2008	35	172	10	0.2	24	2	4	1432	11	
ADS11SW	2008	48	3003	40	1.1	24	3	4	1429	11	
ADS11SW	2008	36	60	10	5.4			4	1400	11	
ADS11SW	2008	36	108	50	0.1	18		1	1329	11	
ADS11SW	2008	36	60	40	4.1	22		4	1328	11	
ADS11SW	2008	33	6220	30	0.6			1	1298	11	
ADS11SW	2008	33	6220	10	0.3		2	3	1298	11	
ADS11SW	2008	33	6220	20	0.1	24	3	4	1298	11	
ADS11SW	2008	34	7062	10	2.5	26		4	1247	11	
ADS11SW	2008	36	112	106	0.1	18		1	1221	11	
ADS11SW ADS11SW	2008	35 33	271 21	20	0.2 4.3	22		4	1081 1047	11	
	2008			80				1			
ADS11SW	2008	34 34	7046 7046	10	1.3 2.9	22		4	1035	11	578.175
ADS11SW	2008			20					1035		
ADS11SW	2008	34	7046	30	2.2	22		4	1035	11	978.45
ADS11SW	2008	34	7044	10	1.1	22		4	1019	11	
ADS11SW	2008	34	7044	30	2.0	22		4	1019	11	889.5
ADS11SW	2008	35	8073	20	2.5	22		1	974	11	
ADS11SW	2008	36	9031	20	6.5	18		1	944	11	
ADS11SW	2008	36	9031	30	3.2	18		1	944	11	
ADS11SW	2008	36	9031	10	1.8	24		4	944	11	
ADS11SW	2008	36	9031	15	1.0	22	2	4	944	11	
ADS11SW	2008	35	29	30	7.0		3	4	921	11	
ADS11SW	2008	35	131	10	0.2	26	3	4	919	11	
ADS11SW	2008	0	2015	10	2.0	30	3	4	912	11	
ADS11SW	2008	0	2015 2015	20	0.1	30	3	4	912 912	11	
ADS11SW ADS11SW	2008	32	2013	30 10	0.1	26	3	4	897	11	236.43
ADS11SW ADS11SW	2008	32	5068	10	3.2	24	3	4	849	11	
ADS11SW ADS11SW	2008	36	3008	23	0.2	22		1	841	11	
ADS11SW ADS11SW	2008	36	30	26	0.2	22		1	841	11	
ADS11SW ADS11SW	2008	36	30	28	1.5	22		1	841	11	650.775
ADS11SW ADS11SW	2008		30		1.0			1	841	11	
ADS11SW ADS11SW	2008		30		1.0			1	841	11	
ADS11SW ADS11SW	2008	32	35	35	7.1			1	821		11849.39
ADS11SW ADS11SW	2008	32	35	40	2.8			4	821	11	
ADS11SW ADS11SW	2008	32	35	50	8.2			4	821	11	
ADS11SW ADS11SW	2008		20		0.2			1	817	11	
ADS11SW	2008	33	20	30	1.8			1	817	11	
ADS11SW	2008		46	10	0.3			1	809	11	
ADS11SW	2008	34	46	15	4.1			1	809	11	
ADS11SW	2008		46		1.2			1	809	11	
ADS11SW	2008	35	41	130	1.4			3	806	11	
ADS11SW	2008		41	135	3.1	22		3	806	11	
ADS11SW	2008		60	50	5.9			4	800	11	
ADS11SW	2008		8090	66	0.1			1	783	11	
ADS11SW	2008	33	6440	80	1.1	20		4	748	11	
ADS11SW ADS11SW	2008	35	8078	20	1.2	24		4	744	11	
ADS11SW ADS11SW	2008	0	2018	10	0.1		3	4	732	11	
ADS11SW ADS11SW	2008	0	2018	20	0.1		3	4	732	11	
ADS11SW	2008	0	2018	30	0.1		3	4	732	11	
ADS11SW	2008	33	162	10	0.7	14	3	1	723	11	
ADS11SW ADS11SW	2008		35		5.8			4			
ADS11SW ADS11SW	2008		35		3.4			4		11	
WDSIISM	∠008	52	33	/0	5.4	16	<u> </u>	4	123	11	5/0.

h	п	1	NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	ı	n 1
NEED 1	FISCAL_ YEAR	AGENCY_	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS_ SHOULDER_ TYPE CODE	MSRIS_ SURFACE_ TYPE_CODE	MSRISD_ FUTURE_AD T_COUNT	MSRISD_ ADS_NUMBE R	MSRISD_ BIA_CTI
							TTTE_CODE				<u> </u>
ADS11SW	2008	32	35	80	1.8	30		4	723	11	
ADS11SW	2008	32	35	90	0.9	24		4	723	11	
ADS11SW	2008	36	9660	10	2.1	20		1	705	11	911.085
ADS11SW	2008	36	9660	30	2.0	18		1	705	11	
ADS11SW	2008	36	9660	50	2.1	18		1	705	11	
ADS11SW	2008	33	6530	10	1.0	22	2	1	701	11	
ADS11SW	2008	48	4067	10	3.9	26	3	4	688	11	
ADS11SW	2008	48	4067	20	1.8	26	3	4		11	
ADS11SW	2008	34	11	80	4.0	24		1	686	11	
ADS11SW	2008	34	11	100	3.3	24	2	1	686	11	+
ADS11SW	2008	48	4063	10	0.8	26	3	4	686	11	
ADS11SW	2008	48	4063	30	3.1	26	3	4		11	
ADS11SW	2008	33	42	25	2.0	22		1	685	11	
ADS11SW	2008	35	8086	70	0.7	26		1	676	11	
ADS11SW	2008	33	42	10	2.3	30		1	667	11	
ADS11SW	2008	33	42	20	1.9	22	_	1	667	11	
ADS11SW	2008	0	2005	15	1.1	24	3	4	662	11	-
ADS11SW	2008	0	2005	20	0.2	24	3	4	662	11	
ADS11SW	2008	0	2005	30	0.1	24	3	4	662	11	
ADS11SW	2008	0	2005	40	0.1	24	3	4	662	11	
ADS11SW	2008	0	2005	50	0.4	24	3	4	662	11	
ADS11SW	2008	0	2005	60	0.5	24	3	4	662	11	
ADS11SW	2008	0	2005	70	0.1	24	3	4	662	11	+
ADS11SW	2008	0	2005	80	0.1	24	3	4	662	11	
ADS11SW	2008	0	2005	90	0.1	24	3	4	662	11	
ADS11SW	2008	36	9402	120	0.8	18	_	1	646	11	
ADS11SW	2008	32	63	10	4.0	28	3	4	640	11	
ADS11SW	2008	32	63	30	1.7	28	3	4		11	
ADS11SW	2008	32	63	50	0.4	28	3	4	640	11	
ADS11SW	2008	32	63	70	1.9	28	3	4	640	11	+
ADS11SW	2008	32	63	90	2.2	28	3	4	640	11	
ADS11SW	2008	32	571	10	2.4	22		1	624	11	
ADS11SW	2008	33	21	15	5.7	24		9	612	11	
ADS11SW	2008	33	21	20	8.9	24		9	612	11	
ADS11SW	2008	33	21	30	1.2	24		9	612	11	
ADS11SW	2008	33	6486	35	6.6	22		1	610	11	
ADS11SW	2008	33	6486	50	0.5	20		1	610	11	
ADS11SW	2008	33	6486	55	0.6	20		1	610	11	
ADS11SW	2008	35	8027	22	0.1	24	3	4		11	1
ADS11SW	2008		8027	24							123.9558
ADS11SW	2008		619	65	0.3			1	603	11	
ADS11SW	2008	34	7140	30	3.0			4		11	
ADS11SW	2008	34	7140	50	2.2	22		4		11	
ADS11SW	2008	34	7140	70	2.8	22		4		11	
ADS11SW	2008		7140	90				4		11	
ADS11SW	2008	34	7140	110	0.3	22		4		11	
ADS11SW	2008		367	10	1.9	22		1	598	11	+
ADS11SW	2008	32	367	20	1.2	22		1	598	11	
ADS11SW	2008		367	15	1.6	22		3		11	
ADS11SW	2008	33	16	140	5.0			5		11	
ADS11SW	2008		16		3.5	24		3		11	
ADS11SW	2008		544	10	0.3	24		4		11	1
ADS11SW	2008		544	30	0.1	26		4		11	+
ADS11SW	2008	34	7120	10	0.1	26		4		11	
ADS11SW	2008	0	2006	10	0.3	24		4			+
ADS11SW	2008	0	2006	20	0.2	24		4			
ADS11SW	2008		2006	30	0.3		_	4		11	
ADS11SW	2008	0	2006	40	0.1	24	3	4			174.0218
ADS11SW	2008		2006	50	0.2	24		4			
ADS11SW	2008		2006	60		24		4		11	
ADS11SW	2008	35	67	45	0.3	24		1	570	11	500.6784

	11	1	NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	TI .	n
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS_ SHOULDER_ TYPE_CODE	MSRIS_ SURFACE_ TYPE_CODE		MSRISD_ ADS_NUMBE R	MSRISD_ BIA CTI
	<u> </u>						TTTE_CODE				
ADS11SW	2008	35	67	50	5.5	24		1	570	11	
ADS11SW	2008	34	46	45	4.2	20		1	567	11	
ADS11SW	2008	34	48	10	2.4	28		1	566		
ADS11SW	2008	34	48	20	2.1	28		1	566		
ADS11SW	2008	34	48	23	2.7	28		1	566		
ADS11SW	2008	34	48	30	0.3	28		1	566		
ADS11SW	2008	32	5099	40	2.4	22		1	563		
ADS11SW	2008	32	5099	10	3.0	24		4	563	11	
ADS11SW	2008	32	5099	15	4.0	24		4	563	11	
ADS11SW	2008	32	5099	30	0.6	24		4	563	11	+
ADS11SW	2008	32	5099	50	2.2	24		4	563	11	
ADS11SW	2008	32	5099	53	7.5	24		4		11	
ADS11SW	2008	36	112	80	1.9	18		1	561	11	
ADS11SW	2008	36	112	82	1.3	18		1	561	11	
ADS11SW	2008	36	112	84	4.1	18		1	561	11	+
ADS11SW	2008	36	112	86	1.6	18		1	561	11	
ADS11SW	2008	36	112	100	1.8	18		1	561	11	
ADS11SW	2008	36	112	102	0.2	18		1	561	11	
ADS11SW	2008	32	5099	56	0.3	24		4	554	11	
ADS11SW	2008	35	8072	10	5.6	20		1	548	11	9745.222
ADS11SW	2008	32	5000	40	0.1	28	3	4	542	11	44.475
ADS11SW	2008	32	5000	60	2.8	28	3	4	542	11	1245.3
ADS11SW	2008	32	5000	80	0.7	28	3	4	542	11	311.325
ADS11SW	2008	34	7062	15	1.4	26		4	542	11	622.65
ADS11SW	2008	34	7062	20	2.5	24		4	542	11	1111.875
ADS11SW	2008	34	7062	25	1.1	24		4	542	11	489.225
ADS11SW	2008	33	21	77	4.5	24		1	539	11	7510.176
ADS11SW	2008	33	21	60	7.0	24		9	539	11	11682.5
ADS11SW	2008	33	21	65	2.3	24		9	539	11	
ADS11SW	2008	33	21	70	1.1	24		9	539	11	
ADS11SW	2008	36	9405	20	6.7	18		1	520	11	
ADS11SW	2008	36	9405	10	0.8	24		1	520	11	1335.142
ADS11SW	2008	32	5016	10	7.8	24		1	518	11	3384.03
ADS11SW	2008	32	5016	30	0.8	24		1	518	11	
ADS11SW	2008	36	9073	10	1.3	18		1	514	11	
ADS11SW	2008	36	9073	15	0.6	18		1	514		
ADS11SW	2008	32	364	15	0.8	12		1	508		
ADS11SW	2008	32	364	30	3.6	18		1	508	11	
ADS11SW	2008	32	368	10	1.6	30		1	508	11	
ADS11SW	2008	32	364	50		24		4			
ADS11SW	2008	32	364	60	0.9	24		4			+
ADS11SW	2008	32	34	30	0.7	12		1	499		
ADS11SW	2008	32	34	40	2.3	24		1	499		+
ADS11SW	2008	32	5012	10	1.2	24		3			
ADS11SW	2008	32	5012	30	2.1	24		3			
ADS11SW	2008	35	8094	26	2.0	20		1	493		
ADS11SW ADS11SW	2008	32	33	70	0.3	26	3				
ADS11SW	2008	32	33	90	0.8	26			490		
ADS11SW ADS11SW	2008	32	33	110	1.6	26					
ADS11SW ADS11SW	2008	32	33	130	2.4	26	3		490		+
ADS11SW ADS11SW	2008	32	33	150	0.7	26	3				+
ADS11SW ADS11SW	2008	32	33	170	1.4	26					
ADS11SW ADS11SW	2008	32	33	170	1.4	26					
						28	3			1	
ADS11SW	2008	32	33	210	0.7	_	3	4	490	11	
ADS11SW	2008	34	7111	10	2.8	24		1	487	11	
ADS11SW	2008	33	16	150	2.5	18		1	486		
ADS11SW	2008	36	151	50	4.2	20		1	484		
ADS11SW	2008	36	151	55	4.7	20		1	484		
ADS11SW	2008	35	8029	10	0.1	20		1	480		
ADS11SW	2008	33	16	170	4.1	24		1	478		
ADS11SW	2008	36	9345	64	0.4	28	3	4	475	11	247.9116

	11 1		NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	11	1
	FISCAL	AGENCY_	ROUTE_ NUMBE	SECTION_	SECTION_	ROADWAY_	MSRIS_ SHOULDER	MSRIS SURFACE	MSRISD_ FUTURE_AD	MSRISD_ ADS_NUMBE	MSRISD
NEED 1	YEAR	CODE	R	NUMBER	LENGTH	WIDTH	TYPE_CODE	TYPE_CODE		R	BIA_CTI
ADS11SW	2008	36	9345	70	0.5	28	3	4	475	11	309.8895
ADS11SW	2008	36	321	80	0.2	18		4	471	11	88.95
ADS11SW	2008	35	8031	50	0.8	22		1	468	11	1335.142
ADS11SW	2008	35	8031	60	1.5	22		1	468	11	2503.392
ADS11SW	2008	35	8031	40	0.5	22		3	468	11	870.1091
ADS11SW	2008	35	8031	10	1.2	24	3	4	468	11	743.7347
ADS11SW	2008	35	8031	30	3.2	24	3	4	468	11	1983.292
ADS11SW	2008	35	8031	35	1.1	22		4	468	11	681.7568
ADS11SW	2008	34	7052	30	0.4	18		1	466	11	177.9
ADS11SW	2008	35	61	60	4.8	20		1	466	11	8353.048
ADS11SW	2008	33	71	10	0.7	29		3	466	11	
ADS11SW	2008	33	71	30	0.9	29		3	466	11	1566.196
ADS11SW	2008	48	4095	20	0.1	28	3	4	466		
ADS11SW	2008	48	4095	30	0.4	28	3	4	466		
ADS11SW	2008	48	4095	35	0.9	28	3	4	466		
ADS11SW	2008	32	5049	10	3.6	12		1	465	11	6264.786
ADS11SW	2008	35	65	10	2.7	22		1	463	11	4506.105
ADS11SW	2008	32	5001	10	0.2	20		1	460	11	
ADS11SW	2008	32	5001	15	0.1	20		1	460	11	43.385
ADS11SW	2008	33	6510	10	5.8	24		1	453	11	9679.782
ADS11SW	2008	33	6510	20	1.6	24		1	453	11	2670.285
ADS11SW	2008	33	6510	30	2.8	20		1	453	11	4672.998
ADS11SW	2008	33	6510	40	2.5	20	2	1	453	11	4172.32
ADS11SW	2008	48	4002	10	1.6	26	3	4	453	11	711.6
ADS11SW ADS11SW	2008 2008	48	4002	13 16	0.6 3.2	26 26	3	4	453 453	11 11	266.85 1423.2
ADS11SW ADS11SW	2008	48	4002	30	2.8	26	3	4	453	11	1245.3
ADS11SW ADS11SW	2008	33	61	10	1.4	22	3	4	448	11	
ADS11SW ADS11SW	2008	0	2003	15	1.1	26	3	4	447	11	-
ADS11SW	2008	0	2003	20	1.1	26	3	4	447	11	2088.262
ADS11SW ADS11SW	2008	0	2003	30	0.1	24	3	4	447	11	-
ADS11SW	2008	0	2003	40	0.3	24	3	4	447	11	522.0655
ADS11SW	2008	0	2003	50	0.2	24	3	4	447	11	348.0437
ADS11SW	2008	0	2003	60	0.1	24	3	4	447	11	174.0218
ADS11SW	2008	0	2003	70	0.2	24	3	4	447	11	348.0437
ADS11SW	2008	0	2003	80	0.2	24	3	4	447	11	348.0437
ADS11SW	2008	0	2003	90	0.2	24	3	4	447	11	348.0437
ADS11SW	2008	33	6221	10	1.1	22		1	446	11	1835.821
ADS11SW	2008	33	6221	20	1.7	20		1	446	11	2837.178
ADS11SW	2008	32	556	10	1.2	18		1	441	11	520.62
ADS11SW	2008	35	25	45	2.0	20		4	441	11	3480.437
ADS11SW	2008	35	8073	30	4.3	22		1	440	11	7482.938
ADS11SW	2008	33	591	10	8.8	24		9	440	11	
ADS11SW	2008	36	9551	10	3.1	16		1	438		
ADS11SW	2008	33	71	50		29		3	434		1
ADS11SW	2008	35	133	40	0.6	22		1	432		
ADS11SW	2008	35	133	45	1.7	22		1	432		+
ADS11SW	2008	32	5010	90	2.2	30		1	429		
ADS11SW	2008	32	5010	110	2.8	30		1	429		
ADS11SW	2008	32	35	10	4.9	30		1	428		
ADS11SW	2008	34	7034	20	1.9	24	_	3	428		
ADS11SW	2008	0	2004	10	0.7	24	3	4	423		
ADS11SW	2008	0	2004	20	0.2	24	3		423		
ADS11SW	2008	0	2004	30	0.1	24	3	4	423		174.0218
ADS11SW	2008	0	2004	40	0.1	24	3	4	423		
ADS11SW	2008	0	2004	50	0.1	24	3		423		
ADS11SW	2008	0	2004	60	0.3	24	3	4	423		
ADS11SW	2008	35	26	10	8.6	20		1	420		
ADS11SW	2008	35	26	20	0.3	20		1	420		
ADS11SW	2008	35	60	40	1.4	22		1	420		
ADS11SW	2008	35	8078	40	4.1	26		1	420	11	7134.895

			NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	ır	n
NEED 1		AGENCY_	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS_ SHOULDER_ TYPE CODE	MSRIS_ SURFACE_ TYPE_CODE	MSRISD_ FUTURE_AD T_COUNT	MSRISD_ ADS_NUMBE R	MSRISD_ BIA_CTI
							TTTE_CODE				ļ
ADS11SW	2008	36	9408	10	3.4	18	2	1	419	11	
ADS11SW	2008	0	2002	40	0.2	26	3	4	417	11	
ADS11SW	2008	48	4050	10	1.0	26	3	4	413	11	
ADS11SW	2008	48	4050	20	5.3	26	3	4	413	11	
ADS11SW	2008	0	2021	10	1.0	24	3	4	411	11	
ADS11SW	2008	32	192	10	3.7	20		1	408	11	
ADS11SW	2008	0	2011	360	0.7	24		1	405	11	
ADS11SW	2008	0	2011	370	0.1	24		1	405	11	
ADS11SW	2008	0	2011	140	0.1	24	3	4	405	11	
ADS11SW	2008	0	2011	150	0.2	24	3	4	405	11	+
ADS11SW	2008	0	2011	160	0.1	24	3	4	405	11	
ADS11SW	2008	0	2011	170	0.3	24	3	4	405	11	
ADS11SW	2008	0	2011	180	0.2	24	3	4	405	11	
ADS11SW	2008	0	2011	190	0.2	24	3	4	405	11	
ADS11SW	2008	0	2011	200	0.1	24	3	4	405	11	+
ADS11SW	2008	0	2011	210	0.1	24	3	4	405	11	
ADS11SW	2008	0	2011	220	0.1	24	3	4	405	11	
ADS11SW	2008	0	2011	230	0.2	24	3	4	405	11	
ADS11SW	2008	0	2011	240	0.1	24	3	4	405	11	
ADS11SW	2008	0	2011	250	0.1	24	3	4	405	11	61.97789
ADS11SW	2008	0	2011	260	0.1	24	3	4	405	11	61.97789
ADS11SW	2008	0	2011	270	0.1	24	3	4	405	11	61.97789
ADS11SW	2008	0	2011	280	0.2	24	3	4	405	11	123.9558
ADS11SW	2008	0	2011	290	0.1	24	3	4	405	11	61.97789
ADS11SW	2008	0	2011	300	0.1	24	3	4	405	11	61.97789
ADS11SW	2008	0	2011	310	0.2	24	3	4	405	11	123.9558
ADS11SW	2008	0	2011	320	0.2	24	3	4	405	11	123.9558
ADS11SW	2008	0	2011	330	0.1	24	3	4	405	11	61.97789
ADS11SW	2008	0	2011	340	0.2	24	3	4	405	11	123.9558
ADS11SW	2008	0	2011	350	0.2	24	3	4	405	11	
ADS11SW	2008	36	321	83	0.5	18		1	404	11	216.925
ADS11SW	2008	36	321	86	1.9	18		1	404	11	824.315
ADS11SW	2008	35	8031	90	2.8	22		1	402	11	4672.998
ADS11SW	2008	35	8031	100	1.0	22		1	402	11	1668.928
ADS11SW	2008	35	8031	105	7.5	22		1	402	11	1
ADS11SW	2008	35	8031	65	2.6			1	402	11	1
ADS11SW	2008	35	8031	80	0.9			1	402	11	+
ADS11SW	2008	34	1045	10	0.6			4	402	11	
ADS11SW	2008	48	4065	10	7.6		3	4	402	11	
ADS11SW	2008	48	4065	30	0.9					11	
ADS11SW	2008	48	4065	40	2.6			4		11	+
ADS11SW	2008	35	251	60	8.5			4	401	11	1
ADS11SW	2008	35	251	65	6.0			4	401	11	1
ADS11SW ADS11SW	2008	36	9501	10	0.7			1	398	11	
ADS11SW	2008	36	9501	30	1.7			1	398		
ADS11SW	2008	36	9345	10	0.4			1	396	11	
ADS11SW ADS11SW	2008	36	9345	20	0.4	_		1	396		
ADS11SW ADS11SW	2008	36	9054	10	5.3			1	394		
ADS11SW ADS11SW	2008	36	9054		0.2			1	394		+
ADS11SW ADS11SW	2008	33	16		0.2			1	394	11	
ADS11SW ADS11SW	2008	33	16		2.0			1	391	11	
ADS11SW ADS11SW	2008	33	16	40	5.8			1	391	11	1
ADS11SW ADS11SW	2008	33	16		6.5			1	391	11	
	2008	35	8087	10	0.8				391		
ADS11SW								1		11	
ADS11SW	2008	34	57	10	2.6			1	389	11	+
ADS11SW	2008	34	57	20	2.0			1	389	11	
ADS11SW	2008	33	61	20	5.6			3	389	11	
ADS11SW	2008	32	366	30	0.9			1	380	11	1
ADS11SW	2008	32	366		1.4			1	380		
ADS11SW	2008	33	6222	10	2.0			1	373		
ADS11SW	2008	33	16	160	1.4	24		1	371	11	2336.499

	11		NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	n	n .
			ROUTE_				MSRIS	MSRIS_	MSRISD_	MSRISD_	
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	SHOULDER_ TYPE_CODE	SURFACE_ TYPE_CODE		ADS_NUMBE R	MSRISD_ BIA_CTI
ADS11SW	2008	33	16	180	1.7	24		1	371	11	2837.178
ADS11SW	2008	33	16	190	1.1	24	2	3	371	11	<b>+</b>
ADS11SW	2008	36	9402	10	1.6	20	_	1	364		
ADS11SW	2008	36	694	10	1.2	15		1	362	11	
ADS11SW	2008	35	61	40	2.4	20		1	361	11	<b>+</b>
ADS11SW	2008	35	8091	10	1.2	24		1	361	11	
ADS11SW	2008	35	8091	15	0.3	24		1	361	11	
ADS11SW	2008	35	8066	10	0.9	22		1	359	11	1566.196
ADS11SW	2008	35	8066	30	4.1	22		1	359	11	7134.895
ADS11SW	2008	32	362	40	1.5	18		1	356	11	650.775
ADS11SW	2008	32	362	50	1.7	22		1	356	11	737.545
ADS11SW	2008	36	9010	20	0.2	16		1	352	11	333.7856
ADS11SW	2008	33	6720	70	13.3	24		1	350		
ADS11SW	2008	35	67	55	2.9	24		1	350		
ADS11SW	2008	32	5012	65	2.2	24		1	347	11	
ADS11SW	2008	32	5012	80	4.1	24		1	347	11	
ADS11SW	2008	32	5012	100	0.9	24		1	347	11	
ADS11SW	2008	35	8027	40	4.1	20		1	340		
ADS11SW	2008	35	8073	10	10.8	22		1	336		
ADS11SW	2008	35	8027	20	2.4	20		1	333		
ADS11SW	2008	36	9402	80	1.0	18		1	331	+	
ADS11SW	2008	36	9402	30	0.1	20		3	331	11	
ADS11SW	2008	36	9062	40	4.6	20		1	330	+	
ADS11SW	2008	36	39	40	0.9	18		1	325		
ADS11SW	2008 2008	32	68 9065	10 15	11.1	22 18		1	318 318		
ADS11SW	2008	36		10	13.3	30		1	318		
ADS11SW ADS11SW	2008	33	6331	20	1.0 0.4	30		1	316		1668.928 667.5712
ADS11SW ADS11SW	2008	35	8087	30	0.4	20		1	316		
ADS11SW ADS11SW	2008	35	8087	34	0.1	20		1	316		
ADS11SW ADS11SW	2008	35	8087	36	1.8	20		1	316		<b>+</b>
ADS11SW ADS11SW	2008	32	8008	10	0.8	30		1	315		
ADS11SW	2008	32	8008	30	3.9	18		1	315		<b>+</b>
ADS11SW	2008	32	8008	50	0.8	18		1	315		
ADS11SW	2008	36	9010	10	9.8	24		1	312	11	
ADS11SW	2008	34	485	10	8.0	22		1	306	+	
ADS11SW	2008	33	6485	10	2.4	24		1	300	+	
ADS11SW	2008	35	8027	10	7.0	20		1	300	11	
ADS11SW	2008	36	9252	10	2.7	18		1	297	11	4506.105
ADS11SW	2008	0	2007	30	1.1	24		1	291	11	
ADS11SW	2008	0	2007	35	0.1	24		1	291	11	61.97789
ADS11SW	2008	0	2007	50	1.1	24		1	291	11	681.7568
ADS11SW	2008	36	9702	10	8.9	18		1	291	11	
ADS11SW	2008	36	9010	25	9.6	20		1	288		
ADS11SW	2008	36	9010	30		18		1	288		
ADS11SW	2008	34	471	10	3.9	20		1	287		
ADS11SW	2008	34	471	30	1.6	20		1	287	+	
ADS11SW	2008	34	471	35	6.4	20		1	287		
ADS11SW	2008	35	8059	10	4.2	20		1	287		
ADS11SW	2008	35	8059	15	1.9	20		1	287		
ADS11SW	2008	36	39	20	0.1	18		1	287		
ADS11SW	2008	36	39	60	3.1	18		1	287		
ADS11SW	2008	36	39	80	0.7	18		1	287		<b>+</b>
ADS11SW	2008	32	35	15	8.1	30		1	285		
ADS11SW	2008	32	35	30	8.3	30		1	285	+	
ADS11SW	2008	36	28	70	0.2	22		1	285		
ADS11SW	2008	36	28	73	0.2	20		1	285		
ADS11SW	2008	36	28	76	0.5	20		1	285		
ADS11SW	2008	33	21	103	2.1	24		1	281	+	
ADS11SW	2008	33	21	100	2.6	24		9			
ADS11SW	2008	36	9010	35	3.2	20	1	1	279	11	5340.56

ADSTISW 2008 36 9010 40 0.3 24 1 279 11 500.6784 ADSTISW 2008 36 9010 40 0.3 24 1 279 11 500.6784 ADSTISW 2008 37 2008 40 2.5 24 9 279 11 401.357 ADSTISW 2008 38 8062 20 11.0 20 1 278 11 101.424 ADSTISW 2008 38 8068 10 10.0 1 1 278 11 101.424 ADSTISW 2008 37 8062 20 11.0 20 1 278 11 101.424 ADSTISW 2008 37 8066 10 10.5 20 1 278 11 101.424 ADSTISW 2008 37 8066 10 10.5 20 1 278 11 101.424 ADSTISW 2008 38 8068 10 10.5 20 1 278 11 101.424 ADSTISW 2008 37 8066 10 10.5 20 1 278 11 101.424 ADSTISW 2008 37 8068 30 2.1 22 1 1 275 11 1932.4 ADSTISW 2008 38 8086 30 2.1 22 1 1 275 11 1932.4 ADSTISW 2008 38 8086 30 2.1 22 1 1 275 11 3504.749 ADSTISW 2008 31 8086 30 2.3 20 1 1 275 11 3504.749 ADSTISW 2008 32 5000 90 0.5 2.3 20 1 1 273 11 3242.70 ADSTISW 2008 32 5000 90 0.5 21 1 1 270 1 1 201.401.401.401.401.401.401.401.401.401.4	NEED 1: HIGHWAY GEOMETRIC DESIGN DEFICIENCIES											
ADSISSW 2008 33 9010 45 0.6 24 1 279 11 1001.52  ADSISSW 2008 33 902 40 2.5 24 9 9 279 11 1472.32  ADSISSW 2008 33 902 11.0 20 1 278 11 1652.07  ADSISSW 2008 35 8062 10 9.5 20 1 278 11 1652.07  ADSISSW 2008 35 8063 10 9.5 20 1 278 11 1652.07  ADSISSW 2008 35 8063 10 9.5 20 1 278 11 1801.05  ADSISSW 2008 35 8063 10 9.5 20 1 278 11 1801.05  ADSISSW 2008 35 8066 35 2.1 22 1 125 11 3504.749  ADSISSW 2008 35 8066 35 2.1 22 1 1275 11 3504.749  ADSISSW 2008 34 59 10 5.4 20 1 1273 11 3504.749  ADSISSW 2008 32 5000 10 1.4 20 1 1 273 11 3888.534  ADSISSW 2008 32 5000 10 1.4 21 1 270 11 2602.33  ADSISSW 2008 32 5000 10 1.4 21 1 270 11 2602.33  ADSISSW 2008 32 5000 10 1.4 21 1 270 11 607.39  ADSISSW 2008 32 5000 10 1.4 21 1 270 11 607.39  ADSISSW 2008 32 5000 10 1.4 21 1 270 11 607.39  ADSISSW 2008 32 5000 130 0.3 21 1 270 11 607.39  ADSISSW 2008 32 5000 10 1.5 21 1 270 11 607.39  ADSISSW 2008 32 5000 150 1.7 21 1 270 11 867.74  ADSISSW 2008 32 5000 150 1.7 21 1 270 11 867.74  ADSISSW 2008 32 5000 10 1.3 21 1 270 11 867.74  ADSISSW 2008 32 5000 10 1.3 21 1 270 11 867.74  ADSISSW 2008 32 5000 10 1.5 1.7 21 1 270 11 867.74  ADSISSW 2008 32 5000 10 1.5 1.7 21 1 270 11 867.74  ADSISSW 2008 32 5000 10 1.5 1.7 21 1 270 11 867.74  ADSISSW 2008 32 5000 10 1.5 1.7 21 1 270 11 87.78  ADSISSW 2008 32 5000 10 1.5 1.7 21 1 270 11 87.78  ADSISSW 2008 32 5000 10 1.0 21 1 2 20 11 130.155  ADSISSW 2008 32 5000 10 1.0 21 1 2 20 11 130.155  ADSISSW 2008 32 5000 20 10 1.0 21 1 2 20 11 130.155  ADSISSW 2008 33 8666 40 2.3 22 1 1 264 11 870.99  ADSISSW 2008 33 8666 55 5.0 20 1 2 24 1 1 270 11 87.78  ADSISSW 2008 33 8666 55 5.0 20 1 2 24 1 1 4 90.79  ADSISSW 2008 33 8666 55 5.0 20 1 1 264 11 1802.75  ADSISSW 2008 33 8666 55 5.0 20 1 1 251 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NEED 1		AGENCY_	NUMBE				SHOULDER_	SURFACE_	FUTURE_AD	ADS_NUMBE	
ADSISSW 2008 33 9010 45 0.6 24 1 279 11 1001.52  ADSISSW 2008 33 902 40 2.5 24 9 9 279 11 1472.32  ADSISSW 2008 33 902 11.0 20 1 278 11 1652.07  ADSISSW 2008 35 8062 10 9.5 20 1 278 11 1652.07  ADSISSW 2008 35 8063 10 9.5 20 1 278 11 1652.07  ADSISSW 2008 35 8063 10 9.5 20 1 278 11 1801.05  ADSISSW 2008 35 8063 10 9.5 20 1 278 11 1801.05  ADSISSW 2008 35 8066 35 2.1 22 1 125 11 3504.749  ADSISSW 2008 35 8066 35 2.1 22 1 1275 11 3504.749  ADSISSW 2008 34 59 10 5.4 20 1 1273 11 3504.749  ADSISSW 2008 32 5000 10 1.4 20 1 1 273 11 3888.534  ADSISSW 2008 32 5000 10 1.4 21 1 270 11 2602.33  ADSISSW 2008 32 5000 10 1.4 21 1 270 11 2602.33  ADSISSW 2008 32 5000 10 1.4 21 1 270 11 607.39  ADSISSW 2008 32 5000 10 1.4 21 1 270 11 607.39  ADSISSW 2008 32 5000 10 1.4 21 1 270 11 607.39  ADSISSW 2008 32 5000 130 0.3 21 1 270 11 607.39  ADSISSW 2008 32 5000 10 1.5 21 1 270 11 607.39  ADSISSW 2008 32 5000 150 1.7 21 1 270 11 867.74  ADSISSW 2008 32 5000 150 1.7 21 1 270 11 867.74  ADSISSW 2008 32 5000 10 1.3 21 1 270 11 867.74  ADSISSW 2008 32 5000 10 1.3 21 1 270 11 867.74  ADSISSW 2008 32 5000 10 1.5 1.7 21 1 270 11 867.74  ADSISSW 2008 32 5000 10 1.5 1.7 21 1 270 11 867.74  ADSISSW 2008 32 5000 10 1.5 1.7 21 1 270 11 867.74  ADSISSW 2008 32 5000 10 1.5 1.7 21 1 270 11 87.78  ADSISSW 2008 32 5000 10 1.5 1.7 21 1 270 11 87.78  ADSISSW 2008 32 5000 10 1.0 21 1 2 20 11 130.155  ADSISSW 2008 32 5000 10 1.0 21 1 2 20 11 130.155  ADSISSW 2008 32 5000 20 10 1.0 21 1 2 20 11 130.155  ADSISSW 2008 33 8666 40 2.3 22 1 1 264 11 870.99  ADSISSW 2008 33 8666 55 5.0 20 1 2 24 1 1 270 11 87.78  ADSISSW 2008 33 8666 55 5.0 20 1 2 24 1 1 4 90.79  ADSISSW 2008 33 8666 55 5.0 20 1 1 264 11 1802.75  ADSISSW 2008 33 8666 55 5.0 20 1 1 251 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ADS11SW	2008	36	9010			24				11	500 6784
ADSISSW 2008 33 20 40 2.5 24 9 9 279 11 417223  ADSISSW 2008 35 8062 01 10 20 11 278 11 191424  ADSISSW 2008 35 8068 10 99 5 20 11 278 11 191424  ADSISSW 2008 35 8068 10 95 20 11 276 11 1800.854  ADSISSW 2008 34 7035 10 4.8 24 12 276 11 1800.854  ADSISSW 2008 34 7035 10 4.8 18 1 275 11 1952.25  ADSISSW 2008 35 8066 50 2.3 26 11 275 11 3854.749  ADSISSW 2008 35 8066 50 2.3 26 11 275 11 3854.749  ADSISSW 2008 32 5000 10 5.4 20 11 277 11 3855.744  ADSISSW 2008 32 5000 10 1.4 21 1 1 270 11 216.925  ADSISSW 2008 32 5000 10 1.4 21 1 1 270 11 216.925  ADSISSW 2008 32 5000 10 1.4 21 1 1 270 11 216.925  ADSISSW 2008 32 5000 130 0.3 21 1 270 11 604.16  ADSISSW 2008 32 5000 130 0.3 21 1 270 11 604.16  ADSISSW 2008 32 5000 130 0.3 21 1 270 11 30.557  ADSISSW 2008 32 5000 150 1.7 21 1 270 11 30.557  ADSISSW 2008 32 5000 150 1.7 21 1 270 11 737.345  ADSISSW 2008 32 5000 150 1.7 21 1 270 11 737.345  ADSISSW 2008 32 5000 150 1.7 21 1 270 11 564.005  ADSISSW 2008 32 5000 150 1.7 21 1 270 11 564.005  ADSISSW 2008 32 5000 150 1.7 21 1 270 11 564.005  ADSISSW 2008 32 5000 150 1.7 21 1 270 11 564.005  ADSISSW 2008 32 5000 150 1.7 21 1 270 11 564.005  ADSISSW 2008 32 5000 150 1.7 21 1 270 11 564.005  ADSISSW 2008 32 5000 150 1.7 21 1 270 11 564.005  ADSISSW 2008 32 5000 150 1.7 20 1 1 266 11 2270 11 564.005  ADSISSW 2008 32 5000 150 1.7 22 1 1 270 11 564.005  ADSISSW 2008 33 8066 60 0 0.8 20 1 1 264 11 6002.502  ADSISSW 2008 35 8066 50 0.8 20 1 1 264 11 6002.502  ADSISSW 2008 35 8066 50 0.8 20 1 1 264 11 6002.502  ADSISSW 2008 35 8066 50 0.8 20 1 1 264 11 170.114  ADSISSW 2008 35 8066 50 0.8 20 1 1 264 11 170.114  ADSISSW 2008 35 8066 50 0.8 20 1 1 264 11 170.114  ADSISSW 2008 35 8066 50 0.8 20 1 1 264 11 170.114  ADSISSW 2008 35 8066 50 0.8 20 1 1 264 11 170.114  ADSISSW 2008 35 8066 50 0.8 20 1 1 264 11 170.215  ADSISSW 2008 35 8066 50 0.8 20 1 1 264 11 170.215  ADSISSW 2008 35 8066 50 0.8 20 1 1 264 11 170.215  ADSISSW 2008 35 8066 10 0.5 8 18 1 22 2 1 1 264 11 1602.50  ADSISSW 2008 35 8066 10 0.8 8 20 1 1 255 1 11 170.215  ADSIS												
ADSIISW 2008 33 8062 20 11.0 20 1 278 11 19142.25 ADSIISW 2008 35 8068 10 9.5 20 1 278 11 1653207 ADSIISW 2008 35 8068 10 9.5 20 1 278 11 1653207 ADSIISW 2008 35 8068 10 9.5 18 1 275 11 18010.85 ADSIISW 2008 35 8066 55 2.1 22 2 1 275 11 3504.70 ADSIISW 2008 35 8066 55 2.1 22 2 1 275 11 3504.70 ADSIISW 2008 35 8066 50 0 2.3 26 1 275 11 3804.70 ADSIISW 2008 32 5000 10 5.4 20 1 273 11 2842.79 ADSIISW 2008 32 5000 10 1.4 21 1 270 11 697.30 ADSIISW 2008 32 5000 10 1.4 21 1 270 11 697.30 ADSIISW 2008 32 5000 130 0.3 21 1 270 11 697.30 ADSIISW 2008 32 5000 130 0.3 21 1 270 11 697.30 ADSIISW 2008 32 5000 150 1.6 21 1 270 11 697.30 ADSIISW 2008 32 5000 150 1.6 21 1 270 11 697.30 ADSIISW 2008 32 5000 150 1.6 21 1 270 11 694.16 ADSIISW 2008 32 5000 150 1.7 21 1 270 11 867.75 ADSIISW 2008 32 5000 150 1.7 21 1 270 11 867.75 ADSIISW 2008 32 5000 10 1.4 21 1 270 11 180.155 ADSIISW 2008 32 5000 10 1.4 21 1 270 11 180.155 ADSIISW 2008 32 5000 10 1.5 0.2 21 1 270 11 180.155 ADSIISW 2008 32 5000 10 1.7 3.0 21 1 270 11 180.155 ADSIISW 2008 32 5000 10 1.7 3.0 21 1 270 11 180.155 ADSIISW 2008 32 5000 10 1.3 1 21 1 270 11 180.155 ADSIISW 2008 32 5000 10 1.3 21 1 270 11 180.155 ADSIISW 2008 32 5000 10 1.1 0 21 1 270 11 180.155 ADSIISW 2008 32 5000 210 1.0 21 1 270 11 1301.55 ADSIISW 2008 32 5000 20 1.1 0 21 1 270 11 1301.55 ADSIISW 2008 32 5000 20 1.1 0 21 1 270 11 1301.55 ADSIISW 2008 32 5000 20 1.1 0 21 1 270 11 1478.78 ADSIISW 2008 32 5000 20 1.1 0 21 1 270 11 1478.78 ADSIISW 2008 32 5000 20 20 1.1 0 21 1 270 11 1478.78 ADSIISW 2008 33 8066 55 5.0 20 1 2 24 1 1 1778.78 ADSIISW 2008 33 8066 55 5.0 20 1 2 24 1 1 1 1778.78 ADSIISW 2008 33 8066 55 5.0 20 1 2 24 1 1 1 1778.78 ADSIISW 2008 33 8066 55 5.0 20 1 1 264 11 1779.21 ADSIISW 2008 33 8066 55 5.0 20 1 1 264 11 1779.21 ADSIISW 2008 33 8066 85 5 5.0 20 1 1 264 11 1779.21 ADSIISW 2008 33 8066 85 5 5.0 20 1 1 251 11 1474.218 ADSIISW 2008 33 8066 85 5 5.0 20 1 1 251 11 1474.218 ADSIISW 2008 33 8066 85 5 5.0 20 1 1 251 11 1474.218 ADSIISW 2008 33 8066 85 0 00 8 20 1 1 251 11 1474.218 AD												
ADSIISW 2008 35 8068 10 9.5 20 11 278 11 1653207  ADSIISW 2008 35 8067 10 4.8 24 1 276 11 8010.584  ADSIISW 2008 34 7035 10 4.5 18 11 275 11 1952.374  ADSIISW 2008 34 7035 10 4.5 18 1 275 11 1952.374  ADSIISW 2008 35 8086 50 2.3 26 1 275 11 3838.534  ADSIISW 2008 35 8086 50 2.3 26 1 275 11 3838.534  ADSIISW 2008 32 5000 09 0.5 21 1 273 11 2842.795  ADSIISW 2008 32 5000 100 1.4 21 1 270 11 6073.38  ADSIISW 2008 32 5000 100 1.4 21 1 270 11 6073.38  ADSIISW 2008 32 5000 100 1.4 21 1 270 11 6073.38  ADSIISW 2008 32 5000 130 0.3 21 1 270 11 8674.64  ADSIISW 2008 32 5000 130 0.3 21 1 270 11 8674.64  ADSIISW 2008 32 5000 130 0.3 21 1 270 11 8674.64  ADSIISW 2008 32 5000 130 0.3 21 1 270 11 8674.64  ADSIISW 2008 32 5000 170 3.0 21 1 270 11 1867.75  ADSIISW 2008 32 5000 170 3.0 21 1 270 11 1867.75  ADSIISW 2008 32 5000 170 3.0 21 1 270 11 1737.345  ADSIISW 2008 32 5000 190 1.3 21 1 270 11 5644.08  ADSIISW 2008 32 5000 190 1.3 21 1 270 11 5644.08  ADSIISW 2008 32 5000 190 1.3 21 1 270 11 5644.08  ADSIISW 2008 32 5000 190 1.3 21 1 270 11 5644.08  ADSIISW 2008 32 5000 190 1.3 21 1 270 11 5644.08  ADSIISW 2008 32 5000 190 1.3 21 1 270 11 787.85  ADSIISW 2008 32 5000 190 1.3 21 1 270 11 787.85  ADSIISW 2008 33 8066 50 0.8 20 1 1 264 11 778.78  ADSIISW 2008 35 8066 50 0.8 20 1 264 11 607.78  ADSIISW 2008 35 8066 50 0.8 20 1 264 11 607.78  ADSIISW 2008 35 8066 50 0.8 20 1 264 11 774.021  ADSIISW 2008 35 8066 50 0.8 20 1 264 11 774.021  ADSIISW 2008 35 8066 50 0.8 20 1 264 11 774.021  ADSIISW 2008 35 8066 50 0.8 20 1 264 11 774.021  ADSIISW 2008 35 8066 50 0.8 20 1 264 11 774.021  ADSIISW 2008 35 8066 50 0.8 20 1 264 11 774.021  ADSIISW 2008 35 8066 50 0.8 20 1 264 11 774.021  ADSIISW 2008 35 8066 50 0.8 20 1 264 11 774.021  ADSIISW 2008 35 8066 50 0.8 20 1 264 11 774.021  ADSIISW 2008 35 8066 50 0.8 20 1 264 11 774.021  ADSIISW 2008 35 8066 50 0.8 20 1 225 1 1 264 11 774.021  ADSIISW 2008 35 8066 50 0.8 20 1 225 1 1 246 1 1 774.021  ADSIISW 2008 35 8066 50 0.8 20 1 1 251 11 774.021  ADSIISW 2008 36 900 10 1 0 5.8 18 1 230 11 1				_								
ADSILISW 2008 35 8067 10 4.8 24 1 276 1.1 8010354 ADSILISW 2008 34 7035 10 4.5 18 1 22 2 1 1 275 1.1 3504.748 ADSILISW 2008 35 8066 35 2.1 22 2 1 1 275 1.1 3504.748 ADSILISW 2008 35 8066 50 2.3 26 1 275 1.1 3504.748 ADSILISW 2008 34 59 10 5.4 20 1 273 1.1 2342.73 ADSILISW 2008 32 5000 100 1.4 21 1 270 1.1 607.39 ADSILISW 2008 32 5000 100 1.4 21 1 270 1.1 607.39 ADSILISW 2008 32 5000 120 1.6 21 1 270 1.1 607.39 ADSILISW 2008 32 5000 120 1.6 21 1 270 1.1 607.39 ADSILISW 2008 32 5000 150 1.7 21 1 270 1.1 607.39 ADSILISW 2008 32 5000 150 1.7 21 1 270 1.1 607.39 ADSILISW 2008 32 5000 150 1.7 21 1 270 1.1 607.39 ADSILISW 2008 32 5000 150 1.7 21 1 270 1.1 607.39 ADSILISW 2008 32 5000 150 1.7 21 1 270 1.1 607.39 ADSILISW 2008 32 5000 150 1.7 21 1 270 1.1 607.39 ADSILISW 2008 32 5000 150 1.7 21 1 270 1.1 607.39 ADSILISW 2008 32 5000 150 1.7 21 1 270 1.1 607.39 ADSILISW 2008 32 5000 150 1.7 21 1 270 1.1 607.39 ADSILISW 2008 32 5000 190 1.3 21 1 270 1.1 607.39 ADSILISW 2008 32 5000 190 1.3 21 1 270 1.1 607.60 ADSILISW 2008 32 5000 190 1.3 21 1 270 1.1 607.60 ADSILISW 2008 32 5000 190 1.3 21 1 270 1.1 607.60 ADSILISW 2008 34 7049 10 5.1 20 1 269 1.1 150.60 ADSILISW 2008 35 8066 40 2.3 22 1 1 264 1.1 607.37 ADSILISW 2008 35 8066 40 2.3 22 1 1 264 1.1 607.37 ADSILISW 2008 35 8066 40 2.3 22 1 1 264 1.1 607.37 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 1.1 870.109 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 1.1 870.109 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 1.1 870.109 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 1.1 870.109 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 1.1 870.109 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 1.1 870.109 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 1.1 870.109 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 1.1 870.21 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 1.1 870.21 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 1.1 870.21 ADSILISW 2008 35 8066 10 8.7 18 18 1 263 1.1 470.21 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 1.1 870.109 ADSILISW 2008 35 8066 10 8.7 18 18 1 225 1 1 1 470.21 ADSILISW 2008 35 8066 10 8.7 18 18 1 225 1 1 1 470.21 A												
ADSI ISW 2008 34 7035 10 4.5 18 1 275 11 192225 1 1 5504 340 ADSI ISW 2008 35 8066 50 2.3 26 1 275 11 8504 340 ADSI ISW 2008 35 8066 50 2.3 26 1 275 11 888 324 340 ADSI ISW 2008 32 5000 90 0.5 21 1 1 270 11 617.3 ADSI ISW 2008 32 5000 100 1.4 21 1 270 11 617.3 ADSI ISW 2008 32 5000 100 1.4 21 1 270 11 607.3 ADSI ISW 2008 32 5000 100 1.4 21 1 270 11 607.3 ADSI ISW 2008 32 5000 120 1.6 21 1 270 11 607.3 ADSI ISW 2008 32 5000 150 1.5 21 1 1 270 11 607.3 ADSI ISW 2008 32 5000 150 1.5 21 1 1 270 11 130.155 ADSI ISW 2008 32 5000 150 1.5 21 1 1 270 11 130.155 ADSI ISW 2008 32 5000 150 1.7 21 1 1 270 11 130.155 ADSI ISW 2008 32 5000 170 3.0 21 1 1 270 11 130.155 ADSI ISW 2008 32 5000 170 3.0 21 1 1 270 11 130.155 ADSI ISW 2008 32 5000 170 3.0 21 1 1 270 11 130.155 ADSI ISW 2008 32 5000 170 3.0 21 1 1 270 11 130.155 ADSI ISW 2008 32 5000 170 3.0 21 1 1 270 11 673.3 ADSI ISW 2008 32 5000 170 3.0 21 1 1 270 11 673.3 ADSI ISW 2008 32 5000 170 3.0 21 1 1 270 11 673.3 ADSI ISW 2008 32 5000 170 3.0 21 1 1 270 11 673.3 ADSI ISW 2008 34 7049 10 5.1 20 1 1 290 11 230.1 ADSI ISW 2008 34 7049 10 5.1 20 1 1 290 11 230.3 ADSI ISW 2008 34 6693 20 41 1 18 1 269 11 217.8 ADSI ISW 2008 35 8066 40 2.3 22 2 1 2 24 1 264 11 607.3 ADSI ISW 2008 35 8066 67 0 0.1 20 1 2 24 1 1 300.2 50 ADSI ISW 2008 35 8066 50 0.8 20 1 1 264 11 870.10 ADSI ISW 2008 35 8066 55 5.0 20 1 2 264 11 1870.10 ADSI ISW 2008 35 8066 55 5.0 20 1 1 264 11 174.0218 ADSI ISW 2008 35 8066 55 5.0 20 1 1 264 11 1870.10 ADSI ISW 2008 35 8066 50 0.8 20 1 1 264 11 1870.10 ADSI ISW 2008 35 8066 55 5.0 20 1 1 264 11 1870.10 ADSI ISW 2008 35 8066 50 0.8 20 1 1 264 11 1870.10 ADSI ISW 2008 35 8066 50 0.8 20 1 1 264 11 1870.10 ADSI ISW 2008 35 8066 70 0.1 20 1 1 265 11 1 470.21 ADSI ISW 2008 35 8066 70 0.1 20 1 1 265 11 1 470.21 ADSI ISW 2008 35 8066 70 0.1 20 1 1 251 11 1 470.21 ADSI ISW 2008 35 8066 70 0.1 20 1 1 251 11 1 470.21 ADSI ISW 2008 35 8066 70 0.1 20 1 1 251 11 1 470.21 ADSI ISW 2008 35 8066 70 0.1 1 20 1 1 251 11 1 470.21 ADSI ISW 2008 35 8066 70 0.1 1 20 1 1 251 11 1 47												
ADSILISW 2008 35 8066 50 2.3 26 1 2.75 11 3504.740 ADSILISW 2008 34 59 10 5.4 20 1 275 11 3242.79 ADSILISW 2008 32 5000 90 0.5 21 1 270 11 24542.79 ADSILISW 2008 32 5000 100 1.4 21 1 270 11 2607.30 ADSILISW 2008 32 5000 100 1.4 21 1 270 11 2607.30 ADSILISW 2008 32 5000 120 1.6 21 1 270 11 1607.30 ADSILISW 2008 32 5000 120 1.6 21 1 270 11 1607.30 ADSILISW 2008 32 5000 120 1.6 21 1 270 11 1607.30 ADSILISW 2008 32 5000 120 1.6 21 1 270 11 1607.30 ADSILISW 2008 32 5000 150 0.3 21 1 270 11 1801.55 ADSILISW 2008 32 5000 150 1.7 21 1 270 11 1801.55 ADSILISW 2008 32 5000 150 1.7 21 1 270 11 1801.55 ADSILISW 2008 32 5000 170 3.0 21 1 270 11 1801.55 ADSILISW 2008 32 5000 170 3.0 21 1 270 11 1801.55 ADSILISW 2008 32 5000 170 3.0 21 1 270 11 1801.55 ADSILISW 2008 32 5000 170 3.0 21 1 270 11 1801.55 ADSILISW 2008 32 5000 190 1.3 21 1 270 11 1301.55 ADSILISW 2008 32 5000 190 1.3 21 1 270 11 1301.55 ADSILISW 2008 32 5000 190 1.3 21 1 270 11 1401.56 ADSILISW 2008 34 7099 10 5.1 20 1 20 1 20 1 1 270 11 4338.55 ADSILISW 2008 35 8066 10 1.5 12 1 20 1 20 1 1 270 11 4338.55 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 11 6002.50 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 11 6002.50 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 11 1770.78 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 11 1700.25 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 11 1700.25 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 11 1700.25 ADSILISW 2008 35 8066 50 0.8 20 1 1 264 11 1700.25 ADSILISW 2008 35 8066 50 0.8 20 0 1 264 11 1700.25 ADSILISW 2008 35 8066 50 0.8 20 0 1 264 11 1700.25 ADSILISW 2008 35 8066 50 0.8 20 0 1 264 11 1700.25 ADSILISW 2008 35 8066 50 0.8 20 0 1 264 11 1700.25 ADSILISW 2008 35 8066 50 0.8 20 0 1 264 11 1700.25 ADSILISW 2008 35 8066 50 0.8 20 0 1 264 11 1700.25 ADSILISW 2008 35 8066 50 0.8 20 0 1 264 11 1700.25 ADSILISW 2008 35 8066 10 8.7 18 8 1 255 11 1684.03 ADSILISW 2008 35 8066 10 8.7 18 8 1 255 11 1684.03 ADSILISW 2008 35 8066 10 8.7 18 8 1 255 11 1684.03 ADSILISW 2008 35 8066 10 8.7 18 8 1 255 1 11 1700.25 ADSILISW 2008 35 8066 10 8.7 18 8 1 255 1 11 1700.25 ADS												
ADSI ISW 2008 35   8066   50   2.3   2.6   1   275   1.1   3838.53.4   3851ISW 2008 34   59   10   5.4   20   1   273   1.1   2342.79   ADSI ISW 2008 32   5000   90   0.5   2.1   1   2.70   1.1   216.925   ADSI ISW 2008 32   5000   100   1.4   2.1   1   2.70   1.1   607.39   ADSI ISW 2008 32   5000   120   1.6   2.1   1   2.70   1.1   607.39   ADSI ISW 2008 32   5000   130   0.3   2.1   1   2.70   1.1   607.39   ADSI ISW 2008 32   5000   150   0.3   2.1   1   2.70   1.1   301.55   ADSI ISW 2008 32   5000   150   0.3   2.1   1   2.70   1.1   301.55   ADSI ISW 2008 32   5000   150   1.7   2.1   1   2.70   1.1   301.55   ADSI ISW 2008 32   5000   150   1.7   2.1   1   2.70   1.1   301.55   ADSI ISW 2008 32   5000   100   1.7   2.1   1   2.70   1.1   301.55   ADSI ISW 2008 32   5000   100   1.3   2.1   1   2.70   1.1   564.00   ADSI ISW 2008 32   5000   100   1.3   2.1   1   2.70   1.1   564.00   ADSI ISW 2008 32   5000   2.0   1.0   2.1   1   2.70   1.1   564.00   ADSI ISW 2008 32   5000   2.0   1.0   2.1   1   2.70   1.1   564.00   ADSI ISW 2008 34   7049   10   5.1   2.0   1   2.20   1   2.60   1.1   737.4   ADSI ISW 2008 35   3606   40   2.3   2.2   1   2.64   1.1   778.4   ADSI ISW 2008 35   8066   40   2.3   2.2   1   2.64   1.1   4002.50   ADSI ISW 2008 35   8066   50   0.8   2.0   1   2.4   1   4002.50   ADSI ISW 2008 35   8066   50   0.8   2.0   1   2.4   1   4002.50   ADSI ISW 2008 35   8066   50   0.8   2.0   1   2.4   1   4002.50   ADSI ISW 2008 35   8066   50   0.8   2.0   1   2.4   1   4002.50   ADSI ISW 2008 35   8066   50   0.8   2.0   1   2.4   1   4002.50   ADSI ISW 2008 35   8066   50   0.8   2.0   1   2.4   1   4002.50   ADSI ISW 2008 35   8066   50   0.8   2.0   1   2.4   4   1   4002.50   ADSI ISW 2008 35   8066   50   0.8   2.0   1   2.4   4   1   4002.50   ADSI ISW 2008 35   8066   50   0.8   2.0   1   2.4   4   1   4002.50   ADSI ISW 2008 35   8066   50   0.8   2.0   1   2.5   4   1   4   4   4   4   4   4   4   4												
ADSIISW 2008 34 59 10 5.4 20 1 273 11 234270 ADSIISW 2008 32 5000 90 0.5 21 1 270 11 26032 ADSIISW 2008 32 5000 100 1.4 21 1 270 11 60733 ADSIISW 2008 32 5000 120 1.6 21 1 270 11 60736 ADSIISW 2008 32 5000 130 0.3 21 1 270 11 30.155 ADSIISW 2008 32 5000 150 0.7 21 1 270 11 30.155 ADSIISW 2008 32 5000 150 1.7 21 1 270 11 30.155 ADSIISW 2008 32 5000 150 1.7 21 1 270 11 30.155 ADSIISW 2008 32 5000 150 1.7 21 1 270 11 30.155 ADSIISW 2008 32 5000 150 1.7 21 1 270 11 30.155 ADSIISW 2008 32 5000 170 3.0 21 1 1 270 11 30.155 ADSIISW 2008 32 5000 190 1.3 21 1 1 270 11 30.455 ADSIISW 2008 32 5000 190 1.3 21 1 1 270 11 30.455 ADSIISW 2008 32 5000 190 1.3 21 1 1 270 11 30.455 ADSIISW 2008 32 5000 210 1.0 21 1 270 11 433.85 ADSIISW 2008 32 5000 210 1.0 21 1 270 11 433.85 ADSIISW 2008 32 5000 210 1.0 21 1 20 1 1 270 11 433.85 ADSIISW 2008 34 7049 10 5.1 20 1 20 1 20 1 1 269 11 778.85 ADSIISW 2008 35 8066 40 2.3 22 1 1 264 11 4002.50 ADSIISW 2008 35 8066 40 2.3 22 1 1 264 11 4002.50 ADSIISW 2008 35 8066 50 0.8 20 1 1 264 11 4002.50 ADSIISW 2008 35 8066 55 5.0 20 1 1 264 11 1802.175 ADSIISW 2008 35 8066 570 0.1 20 1 1 264 11 174.021 ADSIISW 2008 35 8066 570 0.1 20 1 1 264 11 174.021 ADSIISW 2008 35 8066 570 0.1 20 1 1 264 11 174.021 ADSIISW 2008 35 8066 57 0 0.1 20 1 1 264 11 174.021 ADSIISW 2008 35 8066 57 0 0.1 20 1 1 264 11 174.021 ADSIISW 2008 35 8066 57 0 0.1 20 1 1 264 11 174.021 ADSIISW 2008 35 8066 57 0 0.1 20 1 1 264 11 174.021 ADSIISW 2008 35 8066 57 0 0.1 20 1 1 264 11 174.021 ADSIISW 2008 35 8066 10 8.7 20 1 1 264 11 174.021 ADSIISW 2008 35 8066 10 8.7 20 1 1 264 11 174.021 ADSIISW 2008 35 8066 10 8.7 20 1 1 264 11 174.021 ADSIISW 2008 35 8066 10 8.7 20 1 1 264 11 174.021 ADSIISW 2008 35 8068 50 0.3 20 0 1 2 25 1 11 148.001 ADSIISW 2008 35 8068 50 0.3 20 0 1 2 25 1 11 148.001 ADSIISW 2008 36 900 10 1 0.8 18 1 2 25 1 11 168.001 ADSIISW 2008 37 50 0 1 1 25 1 11 174.0218 ADSIISW 2008 38 50 0 10 1 0.0 20 1 1 251 11 174.0218 ADSIISW 2008 36 900 10 1 0.0 20 1 1 251 11 1 1779.104 ADSIISW 2008 36 900 10 1 0.0 20 1 1 251 11												
ADSIISW 2008 32 5000 90 0.5 21 1 270 11 216.925 ADSIISW 2008 32 5000 100 1.4 21 1 270 11 607.33 ADSIISW 2008 32 5000 120 1.6 21 1 270 11 607.33 ADSIISW 2008 32 5000 130 0.3 21 1 270 11 607.33 ADSIISW 2008 32 5000 130 0.3 21 1 270 11 130.155 ADSIISW 2008 33 5000 135 0.2 21 1 270 11 130.155 ADSIISW 2008 32 5000 150 1.7 21 1 270 11 737.545 ADSIISW 2008 32 5000 170 3.0 21 1 270 11 737.545 ADSIISW 2008 32 5000 170 3.0 21 1 270 11 130.155 ADSIISW 2008 32 5000 170 3.0 21 1 270 11 130.155 ADSIISW 2008 32 5000 170 3.0 21 1 270 11 564.005 ADSIISW 2008 32 5000 190 1.3 21 1 270 11 564.005 ADSIISW 2008 32 5000 190 1.3 21 1 270 11 564.005 ADSIISW 2008 32 5000 190 1.3 21 1 270 11 564.005 ADSIISW 2008 34 7049 10 5.1 20 1 269 11 2269 11 2212.635 ADSIISW 2008 36 693 20 4.1 18 1 1.269 11 278 ADSIISW 2008 36 693 20 4.1 18 1 1.269 11 270 11 1787.878 ADSIISW 2008 35 8066 40 2.3 22 1 2 64 11 650.778 ADSIISW 2008 35 8066 50 0.8 20 1 1 264 11 650.778 ADSIISW 2008 35 8066 50 0.8 20 1 1 264 11 1870.109 ADSIISW 2008 35 8066 50 0.8 20 1 1 264 11 1870.109 ADSIISW 2008 35 8066 50 0.8 20 1 1 264 11 1740.181 ADSIISW 2008 35 8066 50 0.8 20 1 1 264 11 1740.181 ADSIISW 2008 35 8066 50 0.8 20 1 1 264 11 1740.181 ADSIISW 2008 35 8066 50 0.8 20 1 1 264 11 1740.181 ADSIISW 2008 35 8066 50 0.8 20 1 1 264 11 1740.181 ADSIISW 2008 35 8066 50 0.8 20 1 1 264 11 1740.181 ADSIISW 2008 35 8066 50 0.8 20 1 1 264 11 1740.181 ADSIISW 2008 36 9032 10 10 8 18 1 1 263 11 1747.69 ADSIISW 2008 36 9032 10 10 8 18 1 1 263 11 1747.69 ADSIISW 2008 36 9032 10 10 8 18 1 1 255 11 1 1740.218 ADSIISW 2008 36 9032 10 10 8 18 1 1 255 11 1 1740.218 ADSIISW 2008 37 506 10 8.7 18 18 1 1 255 11 1 1740.218 ADSIISW 2008 38 5066 10 8.7 18 18 1 255 11 1 1740.218 ADSIISW 2008 36 903 10 1.0 20 1 1 251 11 1 1750.318 ADSIISW 2008 36 903 10 10 8 18 1 1 255 11 1 1740.218 ADSIISW 2008 37 506 10 8.7 18 18 1 255 11 1 1740.218 ADSIISW 2008 38 506 10 8.7 18 18 1 255 11 1 1740.218 ADSIISW 2008 38 506 10 8.7 18 18 1 225 1 11 1 1751.318 ADSIISW 2008 36 903 10 10 4.2 18 18 1 233 11 1 1760.418 ADSIIS												
ADSIISW 2008 32 5000 100 1.4 21 1 270 11 607.39 ADSIISW 2008 32 5000 120 1.20 1.6 21 1 270 11 6094.6 ADSIISW 2008 32 5000 130 0.3 21 1 270 11 130.155 ADSIISW 2008 32 5000 135 0.2 21 1 270 11 130.155 ADSIISW 2008 33 5000 150 1.7 21 1 270 11 30.155 ADSIISW 2008 32 5000 170 3.0 21 1 270 11 310.155 ADSIISW 2008 32 5000 170 3.0 21 1 270 11 130.155 ADSIISW 2008 32 5000 190 1.3 21 1 270 11 130.155 ADSIISW 2008 33 5000 190 1.3 21 1 270 11 130.155 ADSIISW 2008 33 5000 190 1.3 21 1 270 11 130.155 ADSIISW 2008 33 5000 210 1.0 21 1 270 11 433.85 ADSIISW 2008 34 7049 10 5.1 20 1 1 270 11 433.85 ADSIISW 2008 34 7049 10 5.1 20 1 1 269 11 1778.785 ADSIISW 2008 35 6093 20 4.1 18 1 1 269 11 1778.785 ADSIISW 2008 35 8066 40 2.3 22 1 1 264 11 650.775 ADSIISW 2008 35 8066 50 0.8 20 1 2 264 11 180.212 ADSIISW 2008 35 8066 55 5.0 20 1 2 264 11 180.2176 ADSIISW 2008 35 8066 55 5.0 20 1 2 264 11 180.2176 ADSIISW 2008 35 8066 55 5.0 20 1 2 264 11 1870.193 ADSIISW 2008 35 8066 55 5.0 20 1 2 264 11 174.0218 ADSIISW 2008 35 8066 55 5.0 20 1 2 264 11 174.0218 ADSIISW 2008 35 8066 55 5.0 20 1 2 264 11 174.0218 ADSIISW 2008 35 8066 55 5.0 20 1 2 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.0218 ADSIISW 2008 35 8066 55 5.0 20 1 2 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.0218 ADSIISW 2008 35 8066 85 5.0 20 1 2 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 225 11 244 12.03 11 444.035 ADSIISW 2008 35 5660 20 9.1 2 8 3 261 11 147.0218 ADSIISW 2008 35 5660 20 9.1 2 8 3 261 11 147.0218 ADSIISW 2008 35 8068 80 20 9.1 2 8 3 261 11 147.0218 ADSIISW 2008 35 8068 80 9052 10 10.8 18 1 255 11 144.035 ADSIISW 2008 35 8068 80 9052 10 10.8 18 1 255 11 144.035 ADSIISW 2008 36 9052 10 10.8 18 1 1 255 11 1 147.0218 ADSIISW 2008 36 9052 10 10.8 18 1 1 255 11 1 147.0218 ADSIISW 2008 36 9053 10 0 5.6 18 1 1 255 11 1 147.0218 ADSIISW 2008 37 5066 10 8.7 18 18 1 2 255 11 1 147.0218 ADSIISW 2008 37 5060 10 10.8 18 1 1 225 1 11 1 147.0218 ADSIISW 2008 36 9053 10 0 1.5 20 1 1 251 11 1 147.0218 ADSIISW 2008 37 5050 10 10 5.6 18 1 1 23												
ADSI ISW 2008 32 5000 120 1.6 21 1 270 11 694.16 ADSI ISW 2008 32 5000 130 0.3 21 1 270 11 86.77 ADSI ISW 2008 32 5000 135 0.2 21 1 270 11 86.77 ADSI ISW 2008 32 5000 150 1.7 21 1 270 11 73.7.545 ADSI ISW 2008 33 5000 170 3.0 21 1 270 11 737.545 ADSI ISW 2008 32 5000 170 3.0 21 1 270 11 310.55 ADSI ISW 2008 32 5000 190 1.3 21 1 270 11 310.55 ADSI ISW 2008 32 5000 190 1.3 21 1 270 11 654.005 ADSI ISW 2008 33 5000 190 1.3 21 1 270 11 654.005 ADSI ISW 2008 34 7049 10 5.1 20 1 229 11 229 11 221.635 ADSI ISW 2008 34 7049 10 5.1 20 1 269 11 229 11 221.635 ADSI ISW 2008 36 693 20 4.1 18 1 269 11 1778.785 ADSI ISW 2008 33 5806 40 1.5 12 1 2 1 264 11 650.735 ADSI ISW 2008 35 8066 50 0.8 20 1 1 264 11 4002.502 ADSI ISW 2008 35 8066 50 0.8 20 1 1 264 11 4002.502 ADSI ISW 2008 35 8066 50 0.8 20 1 1 264 11 170.2.502 ADSI ISW 2008 35 8066 50 0.8 20 1 1 264 11 170.2.502 ADSI ISW 2008 35 8066 50 0.8 20 1 1 264 11 170.2.502 ADSI ISW 2008 35 8066 50 0.8 20 1 1 264 11 170.1.502 ADSI ISW 2008 35 8066 50 0.8 20 1 1 264 11 170.1.502 ADSI ISW 2008 35 8066 50 0.8 20 1 1 264 11 170.1.502 ADSI ISW 2008 35 8066 50 0.8 20 1 1 264 11 170.1.502 ADSI ISW 2008 35 8066 50 0.8 20 1 1 264 11 170.1.502 ADSI ISW 2008 35 8066 50 0.8 20 1 1 264 11 170.1.502 ADSI ISW 2008 35 8066 50 0.8 20 1 1 264 11 170.1.502 ADSI ISW 2008 35 8066 50 0.8 20 1 1 264 11 170.1.502 ADSI ISW 2008 35 8066 50 0.9 1 20 1 1 24 1 1 24 1 1 170.1.502 ADSI ISW 2008 35 8068 50 9.1 20 1 1 24 1 1 260 11 1475.00 ADSI ISW 2008 36 9050 10 1.0 8 18 1 258 11 1 9679.782 ADSI ISW 2008 36 9050 10 1.0 8 18 1 258 11 1 9679.782 ADSI ISW 2008 37 8068 50 9.3 20 1 1 255 11 1 1446.653 ADSI ISW 2008 36 9050 10 1.5 1 1 1 20 1 1 255 1 11 1 444.653 ADSI ISW 2008 37 8068 50 9.3 20 1 1 255 1 11 1 444.653 ADSI ISW 2008 38 5066 10 8.7 18 18 1 255 1 11 1 446.653 ADSI ISW 2008 34 52 10 10.8 18 1 1 255 1 11 1 475.00 ADSI ISW 2008 34 52 10 10.8 18 1 1 255 1 11 1 475.00 ADSI ISW 2008 35 8066 10 8.7 1 1 20 1 1 255 1 11 1 475.00 ADSI ISW 2008 36 9050 10 1.0 20 1 1 255 1 11 1 475.00 ADSI ISW 2008 36 9050 10 1.0												
ADSIISW 2008 32 5000 130 0.3 21 1 270 11 130.155 ADSIISW 2008 32 5000 135 0.2 21 1 270 11 130.155 ADSIISW 2008 32 5000 130 1.7 21 1 270 11 130.155 ADSIISW 2008 32 5000 170 3.0 21 1 270 11 130.155 ADSIISW 2008 32 5000 190 1.3 21 1 270 11 130.155 ADSIISW 2008 32 5000 190 1.3 21 1 270 11 130.155 ADSIISW 2008 32 5000 190 1.3 21 1 270 11 130.155 ADSIISW 2008 32 5000 210 1.0 21 1 270 11 433.85 ADSIISW 2008 33 5000 210 1.0 21 1 270 11 433.85 ADSIISW 2008 34 7049 10 5.1 20 1 1 269 11 1778.785 ADSIISW 2008 36 693 20 4.1 188 1 269 11 1778.785 ADSIISW 2008 36 693 20 4.1 188 1 269 11 1778.785 ADSIISW 2008 35 8066 40 2.3 22 1 1 264 11 400.250 ADSIISW 2008 35 8066 50 0.8 20 1 264 11 1932.175 ADSIISW 2008 35 8066 55 5.0 20 1 264 11 1932.175 ADSIISW 2008 35 8066 55 5.0 20 1 264 11 1932.175 ADSIISW 2008 35 8066 50 0.8 20 1 264 11 1932.175 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.0218 ADSIISW 2008 35 6060 70 0.1 20 1 264 11 174.0218 ADSIISW 2008 35 5600 20 9.1 28 3 3 261 11 4172.32 ADSIISW 2008 35 5600 20 9.1 28 3 3 261 11 4172.32 ADSIISW 2008 35 5060 20 9.1 28 3 3 261 11 4172.32 ADSIISW 2008 36 9052 10 10.8 18 1 258 11 1802442 ADSIISW 2008 36 9052 10 10.8 18 1 2555 11 1444.035 ADSIISW 2008 37 5060 10 10.8 18 1 2555 11 1444.035 ADSIISW 2008 36 9052 10 10.5 8 18 1 2551 11 440.338 ADSIISW 2008 37 5060 10 10.8 18 1 2551 11 1747.0218 ADSIISW 2008 37 5060 10 10.8 18 1 2551 11 1747.0218 ADSIISW 2008 38 5006 10 3.4 24 1 260 11 1475.03 ADSIISW 2008 37 5060 10 10.8 18 1 2551 11 1747.0218 ADSIISW 2008 38 5006 10 10.8 18 1 2551 11 1747.0218 ADSIISW 2008 37 5060 10 10.8 18 1 2551 11 1747.0218 ADSIISW 2008 38 5008 10 10 5.6 18 1 1 2551 11 1747.0218 ADSIISW 2008 38 5008 10 10 5.6 18 1 1 2551 11 1747.0218 ADSIISW 2008 38 5009 10 5.6 18 1 1 2551 11 1747.0218 ADSIISW 2008 38 5009 10 5.6 18 1 1 2551 11 174.0218 ADSIISW 2008 38 5009 10 5.0 20 1 1 2551												
ADSIISW 2008 32 5000 135 0.2 21 1 270 11 86.77 ADSIISW 2008 32 5000 150 1.7 21 1 270 11 301.55 ADSIISW 2008 32 5000 170 3.0 21 1 270 11 301.55 ADSIISW 2008 32 5000 190 1.3 21 1 270 11 301.55 ADSIISW 2008 32 5000 190 1.3 21 1 270 11 301.55 ADSIISW 2008 32 5000 210 1.0 21 1 270 11 301.55 ADSIISW 2008 32 5000 210 1.0 21 1 1 270 11 4301.55 ADSIISW 2008 34 7049 10 5.1 20 1 269 11 1778.785 ADSIISW 2008 35 6 693 20 4.1 18 1 1 269 11 1778.785 ADSIISW 2008 32 364 10 1.5 12 1 2 64 11 650.775 ADSIISW 2008 35 8066 693 20 4.1 18 1 1 264 11 650.775 ADSIISW 2008 35 8066 50 0.8 20 1 264 11 1892.573 ADSIISW 2008 35 8066 50 0.8 20 1 264 11 1892.573 ADSIISW 2008 35 8066 50 0.8 20 1 264 11 1892.573 ADSIISW 2008 35 8066 50 0.8 20 1 264 11 1892.573 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 1892.573 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 1890.401 ADSIISW 2008 33 6410 10 0.6 18 1 1 263 11 1 996.32 ADSIISW 2008 33 6410 10 0.6 18 1 1 263 11 1 4972.32 ADSIISW 2008 35 8060 70 0.1 20 1 1 264 11 1490.23 ADSIISW 2008 35 8060 70 0.1 20 1 1 264 11 1490.33 ADSIISW 2008 35 8060 70 0.1 20 1 1 264 11 1490.33 ADSIISW 2008 35 8060 70 0.1 20 1 1 264 11 1490.33 ADSIISW 2008 35 8060 70 0.1 20 1 1 264 11 1490.33 ADSIISW 2008 35 8060 70 0.1 20 1 1 264 11 1470.401 ADSIISW 2008 35 8060 70 0.1 20 1 1 264 11 1470.201 ADSIISW 2008 35 8060 70 0.1 20 1 1 265 11 1 490.33 ADSIISW 2008 36 905 10 10 8.8 1 1 263 11 1 1526.525 ADSIISW 2008 36 905 10 10 8 18 1 1 265 11 1 1475.03 ADSIISW 2008 36 905 10 10 8 18 1 1 255 11 1 1474.435 ADSIISW 2008 37 8060 80 90 10 10 8 18 1 1 255 11 1 16184.03 ADSIISW 2008 38 8068 50 9.3 20 0 1 1 251 11 1 6184.03 ADSIISW 2008 38 8068 50 9.3 20 0 1 1 251 11 1 6184.03 ADSIISW 2008 38 8069 10 10 8 87 18 1 1 1 251 1 1 1 6184.03 ADSIISW 2008 38 50 90 10 10 0 8 18 1 1 255 1 11 1 644.635 ADSIISW 2008 38 50 90 10 10 0 8 18 1 1 255 1 11 1 648.03 ADSIISW 2008 38 50 90 10 10 0 10 20 1 1 251 1 1 1 648.03 ADSIISW 2008 38 50 90 10 10 0 10 20 1 1 251 1 1 1 648.03 ADSIISW 2008 36 950 10 10 10 20 1 1 251 1 1 1 648.03 ADSIISW 2008 36 950 10 10 10 20 1 1 220												
ADSIISW 2008 32 5000 150 1.7 21 1 270 11 737.548 ADSIISW 2008 32 5000 170 3.0 21 1 270 11 330.558 ADSIISW 2008 32 5000 190 1.3 21 1 270 11 664.005 ADSIISW 2008 32 5000 210 1.0 21 1 270 11 654.005 ADSIISW 2008 34 7049 10 5.1 20 1 269 11 212.635 ADSIISW 2008 34 7049 10 5.1 20 1 269 11 212.635 ADSIISW 2008 35 66 693 20 4.1 18 1 1 269 11 1778.785 ADSIISW 2008 35 8066 603 20 4.1 18 1 269 11 1778.785 ADSIISW 2008 35 8066 40 2.3 22 1 1 264 11 4002.502 ADSIISW 2008 35 8066 50 0.8 20 1 264 11 4002.502 ADSIISW 2008 35 8066 55 5.0 20 1 264 11 179.178 ADSIISW 2008 35 8066 55 5.0 20 1 264 11 179.178 ADSIISW 2008 35 8066 55 5.0 20 1 264 11 179.178 ADSIISW 2008 33 6410 10 0.6 18 1 1 263 11 174.0218 ADSIISW 2008 33 6410 10 0.6 18 1 1 263 11 174.0218 ADSIISW 2008 35 6410 10 0.6 18 1 1 263 11 179.63 ADSIISW 2008 35 6410 10 0.6 18 1 1 263 11 179.63 ADSIISW 2008 35 6410 10 0.6 18 1 1 263 11 179.63 ADSIISW 2008 35 67 40 2.5 24 1 265 11 174.0218 ADSIISW 2008 35 67 40 2.5 24 1 265 11 174.0218 ADSIISW 2008 35 67 10 3.4 24 1 265 11 174.0218 ADSIISW 2008 36 9052 10 10.8 18 1 258 11 18024.42 ADSIISW 2008 36 9052 10 10.8 18 1 258 11 18024.42 ADSIISW 2008 36 9052 10 10.8 18 1 258 11 18024.42 ADSIISW 2008 36 9052 10 10.8 18 1 258 11 18024.42 ADSIISW 2008 36 9052 10 10.8 18 1 255 11 1444.635 ADSIISW 2008 36 9052 10 10.8 18 1 255 11 1444.635 ADSIISW 2008 36 9052 10 10.5 8 18 1 255 11 1444.635 ADSIISW 2008 36 9052 10 10.5 8 18 1 255 11 1618.03 ADSIISW 2008 37 2006 10 8.7 18 1 1 255 11 1 1740.218 ADSIISW 2008 38 25 20 20 20 20 20 20 20 20 20 20 20 20 20												
ADSIISW 2008 32 5000 170 3.0 21 1 270 11 1301.55 ADSIISW 2008 32 5000 190 1.3 21 1 270 11 564.05 ADSIISW 2008 32 5000 210 1.0 21 1 270 11 564.05 ADSIISW 2008 34 7049 10 5.1 20 1 269 11 1778.78 ADSIISW 2008 36 693 20 4.1 18 1 1 269 11 1778.78 ADSIISW 2008 36 693 20 4.1 18 1 1 266 11 1778.78 ADSIISW 2008 35 8066 40 2.3 22 1 1 264 11 650.75 ADSIISW 2008 35 8066 50 0.8 20 1 264 11 1921.78 ADSIISW 2008 35 8066 50 0.8 20 1 264 11 1921.78 ADSIISW 2008 35 8066 55 5.5 0 20 1 264 11 1921.78 ADSIISW 2008 35 8066 570 0.1 20 1 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.0218 ADSIISW 2008 35 606 70 0.1 20 1 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 1 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 1 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 1 264 11 174.0218 ADSIISW 2008 35 8066 70 0.1 20 1 1 264 11 174.0218 ADSIISW 2008 36 9052 10 10 8.18 1 1 263 11 1 1526.525 ADSIISW 2008 36 9052 10 10.8 18 1 258 11 1802.442 ADSIISW 2008 36 9052 10 10.8 18 1 258 11 1802.442 ADSIISW 2008 36 9052 10 10.8 18 1 258 11 1802.442 ADSIISW 2008 36 9050 10 5.8 18 1 1 255 11 1 1644.635 ADSIISW 2008 36 9050 10 5.6 18 1 1 255 11 1 6184.03 ADSIISW 2008 36 9050 10 5.6 18 1 1 255 11 1 6184.03 ADSIISW 2008 34 52 10 1.5 20 1 1 255 11 1 680.75 ADSIISW 2008 34 52 10 1.5 20 1 1 255 11 1 670.33 ADSIISW 2008 34 52 10 1.5 20 1 1 255 11 1 670.33 ADSIISW 2008 34 52 10 1.5 20 1 1 255 11 1 670.33 ADSIISW 2008 34 52 10 1.5 20 1 1 255 11 1 670.33 ADSIISW 2008 34 52 10 1.5 20 1 1 255 11 1 670.33 ADSIISW 2008 34 52 10 1.5 20 1 1 255 11 1 670.33 ADSIISW 2008 34 52 10 1.5 20 1 1 255 1 11 670.33 ADSIISW 2008 35 8059 10 1.0 20 1 1 255 1 11 670.33 ADSIISW 2008 36 950 10 10 1.0 20 1 1 255 1 11 670.33 ADSIISW 2008 36 950 10 1 1.0 20 1 1 255 1 11 670.33 ADSIIS												
ADSIISW 2008 32 5000 190 1.3 21 1 270 11 564.005 ADSIISW 2008 32 5000 210 1.0 21 1 270 11 433.85 ADSIISW 2008 34 7049 10 5.1 20 1 20 1 269 11 221.263 ADSIISW 2008 36 693 20 4.1 18 1 269 111 1778.785 ADSIISW 2008 36 36 41 10 1.5 12 1 1 264 11 1678.785 ADSIISW 2008 35 8066 640 2.3 22 1 1 264 11 4002.502 ADSIISW 2008 35 8066 50 0.8 20 1 264 11 4002.502 ADSIISW 2008 35 8066 55 5.0 20 1 264 11 1879.185 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 1879.185 ADSIISW 2008 35 8066 55 5.0 20 1 264 11 1747.024 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 1747.024 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.025 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.025 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.025 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.026 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.026 ADSIISW 2008 35 8066 70 0.1 20 1 266 11 174.026 ADSIISW 2008 35 66 10 3.4 24 1 263 11 4172.32 ADSIISW 2008 32 566 10 3.4 24 1 266 11 1475.04 ADSIISW 2008 36 9052 10 10.8 18 1 258 11 1675.43 ADSIISW 2008 36 9052 10 10.8 18 1 258 11 1679.782 ADSIISW 2008 36 9052 10 10.8 18 1 258 11 1679.782 ADSIISW 2008 36 9052 10 5.8 18 1 258 11 1679.782 ADSIISW 2008 36 9052 10 10.8 18 1 255 11 144.633 ADSIISW 2008 37 5066 10 8.7 18 1 1 255 11 144.633 ADSIISW 2008 38 5066 50 9.3 20 1 255 11 144.633 ADSIISW 2008 36 9052 10 10.8 18 1 1 255 11 144.633 ADSIISW 2008 36 9052 10 10.5 20 1 1 251 11 1679.045 ADSIISW 2008 37 5066 10 8.7 18 1 1 255 11 1 1477.026 ADSIISW 2008 38 5069 10 10.5 0 1 1 251 11 1679.045 ADSIISW 2008 38 5009 10 10.5 0 1 1 251 11 1679.045 ADSIISW 2008 38 5009 10 10.5 0 1 1 251 11 1779.047 ADSIISW 2008 37 5009 10 1 5.6 18 1 1 255 11 1 1779.047 ADSIISW 2008 38 5009 10 10.5 0 1 1 251 11 1779.047 ADSIISW 2008 38 5009 10 10 1.5 0 1 1 251 11 1779.047 ADSIISW 2008 38 5009 10 10 1.5 0 1 1 251 11 1778.359 ADSIISW 2008 38 5009 10 10 1.5 0 1 1 251 11 1779.047 ADSIISW 2008 38 5009 10 10 1.0 20 1 1 251 11 1779.047 ADSIISW 2008 38 5009 10 10 1.0 20 1 1 251 11 1779.047 ADSIISW 2008 38 5009 10 10 1.0 20 1 1 251 11 1779.047 ADSIISW 2008 36 901 30 40 18 8 1 1 2												
ADSI1SW 2008 32 5000 210 1.0 21 1 270 11 433.85  ADSI1SW 2008 34 7049 10 5.1 20 1 1 269 11 1778.785  ADSI1SW 2008 36 693 20 4.1 18 1 1.269 11 1778.785  ADSI1SW 2008 32 364 10 1.5 12 1 244 11 650.775  ADSI1SW 2008 35 8066 40 2.3 22 1 1 264 11 4002.502  ADSI1SW 2008 35 8066 50 0.8 20 1 264 11 4002.502  ADSI1SW 2008 35 8066 55 5.0 20 1 264 11 174.0218  ADSI1SW 2008 35 8066 55 5.0 20 1 264 11 174.0218  ADSI1SW 2008 35 8066 70 0.1 20 1 264 11 174.0218  ADSI1SW 2008 35 8066 70 0.1 20 1 264 11 174.0218  ADSI1SW 2008 35 8066 70 0.1 20 1 264 11 174.0218  ADSI1SW 2008 35 67 40 2.5 24 1 263 11 240.3111  ADSI1SW 2008 35 67 40 2.5 24 1 263 11 1526.525  ADSI1SW 2008 32 5060 20 9.1 28 3 261 11 1526.525  ADSI1SW 2008 32 5060 20 9.1 28 3 261 11 1526.525  ADSI1SW 2008 32 5060 10 3.4 24 1 260 11 1475.03  ADSI1SW 2008 36 9052 10 10.8 18 1 258 11 1802.44  ADSI1SW 2008 36 9052 10 10.8 18 1 258 11 1802.44  ADSI1SW 2008 36 9052 10 10.8 18 1 258 11 1802.44  ADSI1SW 2008 36 9050 10 8.7 18 1 1 255 11 1444.635  ADSI1SW 2008 36 9659 10 5.6 18 1 1 252 11 1618.4303  ADSI1SW 2008 37 5066 10 8.7 18 1 1 252 11 1618.4303  ADSI1SW 2008 38 5068 50 9.3 20 1 1 252 11 1618.4303  ADSI1SW 2008 34 52 10 1.5 20 1 1 251 11 477.23  ADSI1SW 2008 34 52 10 1.5 20 1 1 251 11 477.23  ADSI1SW 2008 34 52 10 1.5 20 1 1 251 11 477.23  ADSI1SW 2008 34 52 10 1.5 20 1 1 251 11 477.23  ADSI1SW 2008 34 52 10 1.5 20 1 1 251 11 479.23  ADSI1SW 2008 34 52 10 1.5 20 1 1 251 11 479.23  ADSI1SW 2008 34 52 10 1.5 20 1 1 251 11 479.23  ADSI1SW 2008 34 52 10 1.5 20 1 1 251 11 479.23  ADSI1SW 2008 34 52 10 1.5 20 1 1 251 11 479.23  ADSI1SW 2008 34 52 10 1.5 20 1 1 251 11 479.23  ADSI1SW 2008 34 52 10 1.5 20 1 1 251 11 479.23  ADSI1SW 2008 34 52 10 1.5 20 1 1 251 11 479.23  ADSI1SW 2008 34 52 10 1 1.5 20 1 1 251 11 479.23  ADSI1SW 2008 34 52 10 1 1.5 20 1 1 251 11 479.23  ADSI1SW 2008 34 52 10 1 1.5 20 1 1 251 11 479.23  ADSI1SW 2008 34 52 10 1 1.5 20 1 1 251 11 479.23  ADSI1SW 2008 35 8069 10 1 1 1 20 1 1 251 11 479.23  ADSI1SW 2008 36 900 1 1 1 20 1 1 20 1 1 251 11 1 479.23  ADS												
ADS11SW 2008 34 7049 10 5.1 20 1 269 11 2212.635 ADS11SW 2008 36 693 20 4.1 18 1 269 11 1778.785 ADS11SW 2008 32 364 10 1.5 12 1 264 11 650.775 ADS11SW 2008 35 8066 40 2.3 22 1 264 11 870.091 ADS11SW 2008 35 8066 50 0.8 20 1 264 11 870.091 ADS11SW 2008 35 8066 55 0.0 8 20 1 264 11 870.091 ADS11SW 2008 35 8066 55 5.0 20 1 264 11 870.091 ADS11SW 2008 35 8066 55 5.0 20 1 264 11 870.091 ADS11SW 2008 35 8066 70 0.1 20 1 264 11 870.091 ADS11SW 2008 35 8066 70 0.1 20 1 264 11 870.091 ADS11SW 2008 35 67 40 2.5 24 1 263 11 4472.32 ADS11SW 2008 35 67 40 2.5 24 1 263 11 472.32 ADS11SW 2008 35 66 10 3.4 24 1 260 11 1526.525 ADS11SW 2008 32 56 10 3.4 24 1 260 11 1526.525 ADS11SW 2008 36 9052 10 10.8 18 1 258 11 18024.4 ADS11SW 2008 36 9052 10 10.8 18 1 258 11 18024.4 ADS11SW 2008 36 9052 10 10.8 18 1 258 11 18024.4 ADS11SW 2008 36 9052 10 10.8 18 1 258 11 18024.4 ADS11SW 2008 37 5066 10 8.7 18 1 255 11 144.635 ADS11SW 2008 36 9050 10 5.8 18 1 258 11 18024.4 ADS11SW 2008 37 5066 10 8.7 18 1 255 11 144.635 ADS11SW 2008 38 5066 50 9.3 20 1 252 11 1244.635 ADS11SW 2008 37 5066 10 8.7 18 1 255 11 144.635 ADS11SW 2008 37 5066 10 8.7 18 1 1 255 11 16184.035 ADS11SW 2008 38 5008 50 9.3 20 1 252 11 16184.035 ADS11SW 2008 37 5066 10 8.7 18 1 1 255 11 16184.035 ADS11SW 2008 38 5008 50 9.3 20 1 252 11 17 2429.56 ADS11SW 2008 38 5009 10 5.6 18 1 251 11 260.31 ADS11SW 2008 34 52 10 1.5 20 1 1 251 11 650.75 ADS11SW 2008 34 52 10 1.5 20 1 1 251 11 650.75 ADS11SW 2008 34 52 10 1.5 20 1 1 251 11 650.75 ADS11SW 2008 34 52 10 1.5 20 1 1 251 11 650.75 ADS11SW 2008 35 8059 10 1.0 20 1 1 251 11 740.218 ADS11SW 2008 35 8059 10 1.0 20 1 1 251 11 1740.218 ADS11SW 2008 35 8059 10 1.0 20 1 1 251 11 1740.218 ADS11SW 2008 36 950 0 1 1 25 1 11 1740.218 ADS11SW 2008 37 500 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												
ADS11SW 2008 36 693 20 4.1 18 1 269 11 1778.78  ADS11SW 2008 32 364 10 1.5 12 1 1 264 11 600.502  ADS11SW 2008 35 8066 40 2.3 22 1 264 11 870.503  ADS11SW 2008 35 8066 50 0.8 20 1 264 11 870.093  ADS11SW 2008 35 8066 50 0.8 20 1 264 11 870.1091  ADS11SW 2008 35 8066 70 0.1 20 1 264 11 870.1091  ADS11SW 2008 35 8066 70 0.1 20 1 264 11 870.1091  ADS11SW 2008 35 8066 70 0.1 20 1 264 11 870.1091  ADS11SW 2008 35 8066 70 0.1 20 1 264 11 870.1091  ADS11SW 2008 35 8066 70 0.1 20 1 264 11 870.1091  ADS11SW 2008 33 6410 10 0.6 18 1 263 11 199.63  ADS11SW 2008 32 5060 20 9.1 28 3 261 11 852.525  ADS11SW 2008 32 566 10 3.4 24 1 260 11 1475.09  ADS11SW 2008 36 9052 10 10.8 18 1 258 11 802.442  ADS11SW 2008 36 9052 10 10.8 18 1 258 11 802.442  ADS11SW 2008 36 9052 10 5.8 18 1 258 11 802.442  ADS11SW 2008 36 9052 10 5.8 18 1 258 11 802.442  ADS11SW 2008 36 9052 10 5.8 18 1 258 11 802.442  ADS11SW 2008 36 9052 10 5.8 18 1 255 11 1444.635  ADS11SW 2008 36 9050 10 5.8 18 1 255 11 1444.635  ADS11SW 2008 36 9659 10 5.6 18 1 252 11 16184.03  ADS11SW 2008 34 52 10 1.5 20 1 251 11 650.753  ADS11SW 2008 34 52 10 1.5 20 1 251 11 650.753  ADS11SW 2008 34 52 2 0 1.1 20 1 251 11 650.753  ADS11SW 2008 34 52 2 0 1.1 20 1 251 11 650.753  ADS11SW 2008 34 52 2 0 1.1 20 1 251 11 860.703  ADS11SW 2008 34 52 2 0 1.1 20 1 251 11 860.703  ADS11SW 2008 34 52 2 0 1.1 20 1 251 11 860.703  ADS11SW 2008 34 52 2 0 1.1 20 1 1.251 11 860.703  ADS11SW 2008 34 52 2 0 1.1 20 1 1.251 11 870.1091  ADS11SW 2008 35 8059 10 1.0 20 1 251 11 870.201  ADS11SW 2008 35 8059 10 1.0 20 1 251 11 870.201  ADS11SW 2008 35 8059 10 1.0 20 1 251 11 870.201  ADS11SW 2008 35 8059 10 1.0 20 1 251 11 870.301  ADS11SW 2008 35 8059 10 1.0 20 1 251 11 870.303  ADS11SW 2008 35 8059 10 1.0 20 1 251 11 870.303  ADS11SW 2008 35 8059 10 1.0 20 1 251 11 870.303  ADS11SW 2008 35 8059 10 1.0 20 1 1 251 11 870.303  ADS11SW 2008 36 910 20 1.0 20 1 1 251 11 1740.218  ADS11SW 2008 36 910 20 1.0 20 1 1 251 11 1740.218  ADS11SW 2008 36 910 20 1.0 20 1 1 251 11 1740.218  ADS11SW 2008 36 910 20 1.0												
ADSIISW 2008 32 364 10 1.5 12 1 264 11 650.775 ADSIISW 2008 35 8066 40 2.3 22 1 1 264 11 4002.502 ADSIISW 2008 35 8066 50 0.8 20 1 264 11 1700.2502 ADSIISW 2008 35 8066 55 5.0 20 1 264 11 8701.091 ADSIISW 2008 35 8066 55 5.0 20 1 264 11 8701.091 ADSIISW 2008 35 8066 70 0.1 20 1 264 11 174.0218 ADSIISW 2008 33 6410 10 0.6 18 1 263 11 99.63 ADSIISW 2008 33 6410 10 0.6 18 1 263 11 99.63 ADSIISW 2008 35 67 40 2.5 24 1 263 11 4172.32 ADSIISW 2008 32 5060 20 9.1 28 3 261 11 1526.525 ADSIISW 2008 32 566 10 3.4 24 1 260 11 1475.00 ADSIISW 2008 35 69052 10 10.8 18 1 258 11 8002.42 ADSIISW 2008 36 9021 10 5.8 18 1 258 11 1802.42 ADSIISW 2008 35 8066 10 8.7 18 1 255 11 1444.635 ADSIISW 2008 35 8066 50 9.3 20 1 1 255 11 1444.635 ADSIISW 2008 35 8068 50 9.3 20 1 1 252 11 16184.03 ADSIISW 2008 34 52 15 10 5.6 18 1 222 11 1229.4 ADSIISW 2008 34 52 15 10 5.6 20 1 1 251 11 650.775 ADSIISW 2008 34 52 10 1.5 20 1 1 251 11 650.775 ADSIISW 2008 34 52 10 1.5 20 1 251 11 650.775 ADSIISW 2008 34 52 10 1.5 20 1 251 11 650.775 ADSIISW 2008 34 52 10 1.5 20 1 251 11 650.775 ADSIISW 2008 34 52 10 1.5 20 1 1 251 11 650.775 ADSIISW 2008 34 52 15 0.6 20 1 251 11 650.775 ADSIISW 2008 34 52 15 0.6 20 1 251 11 650.775 ADSIISW 2008 34 52 10 1.5 20 1 1 251 11 650.775 ADSIISW 2008 34 52 10 1.5 20 1 1 251 11 650.775 ADSIISW 2008 34 52 10 1.5 20 1 1 251 11 650.775 ADSIISW 2008 34 52 10 1.5 20 1 1 251 11 740.218 ADSIISW 2008 34 52 10 1.5 20 1 1 251 11 740.218 ADSIISW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADSIISW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADSIISW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADSIISW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADSIISW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADSIISW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADSIISW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADSIISW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADSIISW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADSIISW 2008 36 9101 30 4.0 18 1 1233 11 6769.419 ADSIISWG 2008 36 9101 40 3.6 18 1 1 233 11 6769.419 ADSIISWG 2008 36 9101 16 2.6 18 1 1 233 11 6769.419 ADSIISWG												
ADS1ISW 2008 35 8066 40 2.3 22 1 264 11 4002.502 ADS1ISW 2008 35 8066 50 0.8 20 1 264 11 1392.175 ADS1ISW 2008 35 8066 55 0.0 20 1 264 11 1392.175 ADS1ISW 2008 35 8066 55 5.0 20 1 264 11 1392.175 ADS1ISW 2008 35 8066 70 0.1 20 1 264 11 174.0218 ADS1ISW 2008 33 6410 10 0.6 18 1 263 11 99.63 ADS1ISW 2008 35 67 40 2.5 24 1 263 11 192.63 ADS1ISW 2008 32 5060 20 9.1 28 3 261 11 1526.525 ADS1ISW 2008 32 56 10 3.4 24 1 260 11 1475.09 ADS1ISW 2008 36 9052 10 10.8 18 1 258 11 1802.42 ADS1ISW 2008 36 9052 10 10.8 18 1 258 11 1802.42 ADS1ISW 2008 36 9052 10 10.8 18 1 258 11 1802.42 ADS1ISW 2008 36 9052 10 10.8 18 1 258 11 1807.42 ADS1ISW 2008 36 9051 10 5.8 18 1 258 11 19679.782 ADS1ISW 2008 36 9051 10 5.8 18 1 255 11 1446.63 ADS1ISW 2008 36 9050 10 5.6 18 1 255 11 1446.63 ADS1ISW 2008 36 9659 10 5.6 18 1 252 11 16184.63 ADS1ISW 2008 34 52 10 1.5 20 1 251 11 650.73 ADS1ISW 2008 34 52 10 1.5 20 1 251 11 650.73 ADS1ISW 2008 34 52 10 1.5 20 1 251 11 650.73 ADS1ISW 2008 34 52 10 1.5 20 1 251 11 650.73 ADS1ISW 2008 34 52 10 1.5 20 1 251 11 650.73 ADS1ISW 2008 34 52 10 1.5 20 1 251 11 650.73 ADS1ISW 2008 34 52 10 1.5 20 1 251 11 650.73 ADS1ISW 2008 34 52 10 1.5 20 1 251 11 650.73 ADS1ISW 2008 34 52 20 1.1 20 1 251 11 650.73 ADS1ISW 2008 34 52 20 1.1 20 1 251 11 675.03 ADS1ISW 2008 34 52 20 1.1 20 1 251 11 675.03 ADS1ISW 2008 34 52 20 1.1 20 1 251 11 675.03 ADS1ISW 2008 34 52 20 1.1 20 1 251 11 740.218 ADS1ISW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADS1ISW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADS1ISW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADS1ISW 2008 36 9503 10 4.2 18 1 247 11 1297.17 ADS1ISW 2008 36 9503 10 4.2 18 1 247 11 1297.17 ADS1ISW 2008 36 9503 10 4.2 18 1 243 11 1740.218 ADS1ISW 2008 36 9503 10 4.2 18 1 233 11 1740.218 ADS1ISW 2008 36 9503 10 4.2 18 1 1 233 11 1740.218 ADS1ISW 2008 36 9503 10 4.2 18 1 1 233 11 1740.218 ADS1ISW 2008 36 9503 10 4.0 18 1 1 233 11 1740.218 ADS1ISW 2008 36 9503 10 4.0 18 1 1 233 11 1740.218 ADS1ISW 2008 36 9101 40 3.6 18 1 1 233 11 1751.244 ADS1ISW 2008 36 9101 40 3.6 18 1 1 233 11												
ADSIISW   2008   35   8066   50   0.8   20   1   264   11   1392.175												
ADS11SW 2008 35 8066 55 5.0 20 1 264 11 8701.091 ADS11SW 2008 33 8066 70 0.1 20 1 264 11 174.0218 ADS11SW 2008 33 8066 70 0.1 20 1 264 11 174.0218 ADS11SW 2008 33 5610 10 0.6 18 1 263 11 99.63 ADS11SW 2008 32 506 10 3.4 24 1 263 11 4172.32 ADS11SW 2008 32 506 10 3.4 24 1 260 11 1475.09 ADS11SW 2008 32 50 10 10.8 18 1 258 11 8024.42 ADS11SW 2008 36 9052 10 10.8 18 1 258 11 8024.42 ADS11SW 2008 36 9052 10 10.8 18 1 258 11 8024.42 ADS11SW 2008 37 5066 10 8.7 18 1 258 11 8024.42 ADS11SW 2008 37 5066 10 8.7 18 1 255 11 1444.635 ADS11SW 2008 37 5066 10 8.7 18 1 255 11 1444.635 ADS11SW 2008 38 5066 10 8.7 18 1 255 11 1444.635 ADS11SW 2008 33 5066 10 8.7 18 1 255 11 1444.635 ADS11SW 2008 33 5066 10 8.7 18 1 1 252 11 16184.03 ADS11SW 2008 33 5066 10 8.7 18 1 1 252 11 16184.03 ADS11SW 2008 33 5066 10 8.7 18 1 1 252 11 16184.03 ADS11SW 2008 33 5069 10 5.6 18 1 252 11 1979.104 ADS11SW 2008 33 50 50 9.3 20 1 252 11 1979.104 ADS11SW 2008 34 52 10 1.5 20 1 251 11 650.75 ADS11SW 2008 34 52 10 1.5 20 1 251 11 650.75 ADS11SW 2008 34 52 10 1.5 20 1 251 11 650.75 ADS11SW 2008 34 52 20 1.1 20 1 251 11 470.238 ADS11SW 2008 34 52 20 1.1 20 1 251 11 470.238 ADS11SW 2008 34 52 20 1.1 20 1 251 11 470.238 ADS11SW 2008 34 52 20 1.1 20 1 251 11 470.238 ADS11SW 2008 34 52 30 1.0 20 1 251 11 470.238 ADS11SW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADS11SW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADS11SW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADS11SW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADS11SW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADS11SW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADS11SW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADS11SW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADS11SW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADS11SW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADS11SW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADS11SW 2008 35 8059 100 1.0 20 1 251 11 740.218 ADS11SWG 2008 36 9101 30 4.2 18 1 1 233 11 668.339 ADS11SWG 2008 36 9101 40 3.6 18 1 1 233 11 16481.399 ADS11SWG 2008 36 9101 40 3.6 18 1 1 230 11 5344.808 ADS11SWG 200												
ADSIISW   2008   35   8066   70   0.1   20   1   264   11   174.0218												
ADSIISW   2008   33   6410   10   0.6   18   1   263   11   99.63   ADSIISW   2008   35   67   40   2.5   24   1   263   11   4172.35   ADSIISW   2008   32   5060   20   9.1   28   3   3   261   11   1526.525   ADSIISW   2008   32   56   10   3.4   24   1   260   11   1475.09   ADSIISW   2008   36   9052   10   10.8   18   1   258   11   8079.782   ADSIISW   2008   36   9052   10   10.8   18   1   258   11   8079.782   ADSIISW   2008   36   9020   10   5.8   18   1   258   11   8079.782   ADSIISW   2008   35   8068   50   9.3   20   1   255   11   1444.635   ADSIISW   2008   35   8068   50   9.3   20   1   252   11   2429.56   ADSIISW   2008   33   20   70   5.5   24   9   252   11   9179.104   ADSIISW   2008   34   52   10   1.5   20   1   251   11   650.775   ADSIISW   2008   34   52   10   1.5   20   1   251   11   477.235   ADSIISW   2008   34   52   10   1.5   20   1   251   11   477.235   ADSIISW   2008   34   52   20   1.1   20   1   251   11   477.235   ADSIISW   2008   34   52   20   1.1   20   1   251   11   477.235   ADSIISW   2008   34   52   30   1.0   20   1   251   11   478.091   ADSIISW   2008   34   52   30   1.0   20   1   251   11   478.091   ADSIISW   2008   34   52   30   1.0   20   1   251   11   478.091   ADSIISW   2008   34   52   30   1.0   20   1   251   11   479.104   ADSIISW   2008   34   52   30   1.0   20   1   251   11   479.104   ADSIISW   2008   34   52   30   1.0   20   1   251   11   479.104   ADSIISW   2008   34   52   30   1.0   20   1   251   11   479.104   ADSIISW   2008   34   52   30   1.0   20   1   251   11   479.104   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   479.104   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   479.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   470.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   470.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   470.218   ADSIISW   2008   35   525   30   4.7   21   1   233   11   1740.218   ADSIISWG   2008   36   503   10												
ADS11SW   2008   35   67   40   2.5   24   1   263   11   4172.32												
ADSIISW   2008   32   5060   20   9.1   28   3   261   11   1526.525												
ADSIISW   2008   32   56   10   3.4   24   1   260   11   1475.09   ADSIISW   2008   36   9052   10   10.8   18   1   258   11   18024.42   ADSIISW   2008   36   9201   10   5.8   18   1   258   11   18024.42   ADSIISW   2008   36   9201   10   5.8   18   1   255   11   1446.635   ADSIISW   2008   35   8068   50   9.3   20   1   252   11   16184.03   ADSIISW   2008   36   9659   10   5.6   18   1   252   11   16184.03   ADSIISW   2008   33   20   70   5.5   24   9   252   11   1979.104   ADSIISW   2008   34   52   10   1.5   20   1   251   11   260.31   ADSIISW   2008   34   52   15   0.6   20   1   251   11   260.31   ADSIISW   2008   34   52   20   1.1   20   1   251   11   477.235   ADSIISW   2008   34   52   20   1.1   20   1   251   11   477.235   ADSIISW   2008   34   52   30   1.0   20   1   251   11   433.85   ADSIISW   2008   34   52   35   0.2   20   1   251   11   86.77   ADSIISW   2008   35   8029   20   5.0   20   1   251   11   870.1091   ADSIISW   2008   35   8029   20   5.0   20   1   251   11   740.218   ADSIISW   2008   35   8029   100   1.0   20   1   251   11   740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   740.218   ADSIISW   2008   36   9503   10   4.2   18   1   233   11   648.139   ADSIISWG   2008   36   9503   10   4.2   18   1   233   11   648.1399   ADSIISWG   2008   36   9101   30   4.0   18   1   233   11   134.4808   ADSIISWG   2												
ADSIISW   2008   36   9052   10   10.8   18   1   258   11   18024.42   ADSIISW   2008   36   9201   10   5.8   18   1   258   11   9679.782   ADSIISW   2008   33   5066   10   8.7   18   1   255   11   1444.635   ADSIISW   2008   35   8068   50   9.3   20   1   252   11   1444.635   ADSIISW   2008   36   9659   10   5.6   18   1   252   11   2429.56   ADSIISW   2008   33   20   70   5.5   24   9   252   11   9179.104   ADSIISW   2008   34   52   10   1.5   20   1   251   11   260.31   ADSIISW   2008   34   52   15   0.6   20   1   251   11   260.31   ADSIISW   2008   34   52   20   1.1   20   1   251   11   477.235   ADSIISW   2008   34   52   30   1.0   20   1   251   11   477.235   ADSIISW   2008   34   52   35   0.2   20   1   251   11   477.235   ADSIISW   2008   34   52   35   0.2   20   1   251   11   86.77   ADSIISW   2008   34   52   35   0.2   20   1   251   11   8701.091   ADSIISW   2008   34   52   35   0.2   20   1   251   11   8701.091   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   7740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   7740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   7740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   1740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   1740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   1740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   1740.218   ADSIISW   2008   35   8059   100   1.0   20   1   251   11   1740.218   ADSIISW   2008   36   9503   10   4.2   18   1   247   11   1297.17   ADSIISWG   2008   36   31   30   1.8   20   1   236   11   30.885   ADSIISWG   2008   36   25   10   9.3   18   1   233   11   1658.3   ADSIISWG   2008   36   9101   30   4.0   18   1   233   11   10658.3   ADSIISWG   2008   36   9101   40   3.6   18   1   230   11   3744.808   ADSIISWG												
ADSIISW   2008   36   9201   10   5.8   18   1   258   11   9679.782												
ADS11SW												
ADSIISW   2008   35   8068   50   9.3   20   1   252   11   16184.03												
ADSIISW   2008   36   9659   10   5.6   18   1   252   11   2429.56												
ADSIISW   2008   33   20   70   5.5   24   9   252   11   9179.104												
ADSIISW   2008   34   52   10   1.5   20   1   251   11   650.775												
ADS11SW   2008   34   52   15   0.6   20   1   251   11   260.31												
ADS11SW   2008   34   52   20   1.1   20   1   251   11   477.235												
ADS11SW   2008   34   52   30   1.0   20   1   251   11   433.85												
ADS11SW   2008   34   52   35   0.2   20   1   251   11   86.77												
ADS11SW 2008 35 8029 20 5.0 20 1 251 11 8701.091  ADS11SW 2008 35 8059 100 1.0 20 1 251 11 1740.218  ADS11SW 2008 35 8059 110 1.6 20 1 251 11 1740.218  ADS11SW 2008 35 8059 120 1.0 20 1 251 11 1740.218  ADS11SW 2008 35 8059 120 1.0 20 1 251 11 1740.218  ADS11SW Total ADS 11 needing surface upgrade ar 988.7  ADS11SWG 2008 36 9503 10 4.2 18 1 247 11 1297.17  ADS11SWG 2008 32 5113 33 5.1 22 1 236 11 1575.135  ADS11SWG 2008 32 5113 36 0.1 22 1 236 11 30.885  ADS11SWG 2008 36 31 30 1.8 20 1 236 11 30.885  ADS11SWG 2008 35 25 20 4.5 21 1 233 11 6481.399  ADS11SWG 2008 36 25 10 9.3 18 1 233 11 6769.481  ADS11SWG 2008 36 153 10 7.4 18 1 233 11 13394.89  ADS11SWG 2008 36 9101 20 1.6 18 1 233 11 5761.244  ADS11SWG 2008 36 9101 40 3.6 18 1 230 11 3744.808  ADS11SWG 2008 36 9101 40 3.6 18 1 230 11 5185.119  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 66481.399  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 66481.399  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 66481.399  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 66481.399  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 66481.399  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 66481.399  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6625.43												
ADS11SW   2008   35   8059   100   1.0   20   1   251   11   1740.218     ADS11SW   2008   35   8059   110   1.6   20   1   251   11   2784.349     ADS11SW   2008   35   8059   120   1.0   20   1   251   11   1740.218     ADS11SW   Total   ADS 11 needing surface upgrade at   988.7												
ADS11SW   2008   35   8059   110   1.6   20   1   251   11   2784.349												
ADS11SW 2008 35 8059 120 1.0 20 1 251 11 1740.218  ADS11SW Total ADS 11 needing surface upgrade ar 988.7  ADS11SWG 2008 36 9503 10 4.2 18 1 247 11 1297.17  ADS11SWG 2008 32 5113 33 5.1 22 1 236 11 1575.135  ADS11SWG 2008 32 5113 36 0.1 22 1 236 11 30.885  ADS11SWG 2008 36 31 30 1.8 20 1 236 11 555.93  ADS11SWG 2008 35 25 20 4.5 21 1 236 11 555.93  ADS11SWG 2008 35 25 20 4.5 21 1 233 11 6481.399  ADS11SWG 2008 36 25 10 9.3 18 1 233 11 13394.89  ADS11SWG 2008 36 153 10 7.4 18 1 233 11 10658.3  ADS11SWG 2008 36 9101 20 1.6 18 1 233 11 5761.244  ADS11SWG 2008 36 9101 40 3.6 18 1 230 11 5185.119  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399												
ADS11SW Total         ADS 11 needing surface upgrade ar         988.7         1169257           ADS11SWG         2008         36         9503         10         4.2         18         1         247         11         1297.17           ADS11SWG         2008         32         5113         33         5.1         22         1         236         11         1575.135           ADS11SWG         2008         32         5113         36         0.1         22         1         236         11         30.885           ADS11SWG         2008         36         31         30         1.8         20         1         236         11         555.93           ADS11SWG         2008         35         25         20         4.5         21         1         233         11         6481.399           ADS11SWG         2008         35         25         30         4.7         21         1         233         11         6769.461           ADS11SWG         2008         36         25         10         9.3         18         1         233         11         1394.89           ADS11SWG         2008         36         153         10												
ADS11SWG 2008 36 9503 10 4.2 18 1 247 11 1297.17  ADS11SWG 2008 32 5113 33 5.1 22 1 236 11 1575.135  ADS11SWG 2008 32 5113 36 0.1 22 1 236 11 30.885  ADS11SWG 2008 36 31 30 1.8 20 1 236 11 555.93  ADS11SWG 2008 35 25 20 4.5 21 1 233 11 6481.399  ADS11SWG 2008 35 25 30 4.7 21 1 233 11 6769.461  ADS11SWG 2008 36 25 10 9.3 18 1 233 11 13394.89  ADS11SWG 2008 36 153 10 7.4 18 1 233 11 10658.3  ADS11SWG 2008 36 9101 20 1.6 18 1 233 11 5761.244  ADS11SWG 2008 36 9101 40 3.6 18 1 230 11 5185.119  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399									1	251	11	
ADS11SWG 2008 32 5113 33 5.1 22 1 236 11 1575.135  ADS11SWG 2008 32 5113 36 0.1 22 1 236 11 30.885  ADS11SWG 2008 36 31 30 1.8 20 1 236 11 555.93  ADS11SWG 2008 35 25 20 4.5 21 1 233 11 6481.399  ADS11SWG 2008 35 25 30 4.7 21 1 233 11 6769.461  ADS11SWG 2008 36 25 10 9.3 18 1 233 11 13394.89  ADS11SWG 2008 36 153 10 7.4 18 1 233 11 10658.3  ADS11SWG 2008 36 9101 20 1.6 18 1 233 11 2304.498  ADS11SWG 2008 36 9101 30 4.0 18 1 233 11 5761.244  ADS11SWG 2008 36 9101 40 3.6 18 1 230 11 5185.119  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399  ADS11SWG 2008 36 9402 23 4.6 20 1 229 11 6625.43					10							
ADS11SWG 2008 32 5113 36 0.1 22 1 236 11 30.885  ADS11SWG 2008 36 31 30 1.8 20 1 236 11 555.93  ADS11SWG 2008 35 25 20 4.5 21 1 233 11 6481.399  ADS11SWG 2008 35 25 30 4.7 21 1 233 11 6769.461  ADS11SWG 2008 36 25 10 9.3 18 1 233 11 13394.89  ADS11SWG 2008 36 153 10 7.4 18 1 233 11 10658.3  ADS11SWG 2008 36 9101 20 1.6 18 1 233 11 2304.498  ADS11SWG 2008 36 9101 30 4.0 18 1 233 11 5761.244  ADS11SWG 2008 36 9101 16 2.6 18 1 230 11 3744.808  ADS11SWG 2008 36 9101 40 3.6 18 1 230 11 5185.119  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399  ADS11SWG 2008 36 9402 23 4.6 20 1 229 11 6625.43												
ADS11SWG 2008 36 31 30 1.8 20 1 236 11 555.93  ADS11SWG 2008 35 25 20 4.5 21 1 233 11 6481.399  ADS11SWG 2008 35 25 30 4.7 21 1 233 11 6769.461  ADS11SWG 2008 36 25 10 9.3 18 1 233 11 13394.89  ADS11SWG 2008 36 153 10 7.4 18 1 233 11 10658.3  ADS11SWG 2008 36 9101 20 1.6 18 1 233 11 2304.498  ADS11SWG 2008 36 9101 30 4.0 18 1 233 11 5761.244  ADS11SWG 2008 36 9101 16 2.6 18 1 230 11 3744.808  ADS11SWG 2008 36 9101 40 3.6 18 1 230 11 5185.119  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399  ADS11SWG 2008 36 9402 23 4.6 20 1 229 11 6625.43												
ADS11SWG 2008 35 25 20 4.5 21 1 233 11 6481.399  ADS11SWG 2008 35 25 30 4.7 21 1 233 11 6769.461  ADS11SWG 2008 36 25 10 9.3 18 1 233 11 13394.89  ADS11SWG 2008 36 153 10 7.4 18 1 233 11 10658.3  ADS11SWG 2008 36 9101 20 1.6 18 1 233 11 2304.498  ADS11SWG 2008 36 9101 30 4.0 18 1 233 11 5761.244  ADS11SWG 2008 36 9101 16 2.6 18 1 230 11 3744.808  ADS11SWG 2008 36 9101 40 3.6 18 1 230 11 5185.119  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399  ADS11SWG 2008 36 9402 23 4.6 20 1 229 11 6625.43												
ADS11SWG 2008 35 25 30 4.7 21 1 233 11 6769.461  ADS11SWG 2008 36 25 10 9.3 18 1 233 11 13394.89  ADS11SWG 2008 36 153 10 7.4 18 1 233 11 10658.3  ADS11SWG 2008 36 9101 20 1.6 18 1 233 11 2304.498  ADS11SWG 2008 36 9101 30 4.0 18 1 233 11 5761.244  ADS11SWG 2008 36 9101 16 2.6 18 1 230 11 3744.808  ADS11SWG 2008 36 9101 40 3.6 18 1 230 11 5185.119  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399  ADS11SWG 2008 36 9402 23 4.6 20 1 229 11 6625.43												
ADS11SWG 2008 36 25 10 9.3 18 1 233 11 13394.89  ADS11SWG 2008 36 153 10 7.4 18 1 233 11 10658.3  ADS11SWG 2008 36 9101 20 1.6 18 1 233 11 2304.498  ADS11SWG 2008 36 9101 30 4.0 18 1 233 11 5761.244  ADS11SWG 2008 36 9101 16 2.6 18 1 230 11 3744.808  ADS11SWG 2008 36 9101 40 3.6 18 1 230 11 5185.119  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399  ADS11SWG 2008 36 9402 23 4.6 20 1 229 11 6625.43												
ADS11SWG 2008 36 153 10 7.4 18 1 233 11 10658.3  ADS11SWG 2008 36 9101 20 1.6 18 1 233 11 2304.498  ADS11SWG 2008 36 9101 30 4.0 18 1 233 11 5761.244  ADS11SWG 2008 36 9101 16 2.6 18 1 230 11 3744.808  ADS11SWG 2008 36 9101 40 3.6 18 1 230 11 5185.119  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399  ADS11SWG 2008 36 9402 23 4.6 20 1 229 11 6625.43												
ADS11SWG 2008 36 9101 20 1.6 18 1 233 11 2304.498  ADS11SWG 2008 36 9101 30 4.0 18 1 233 11 5761.244  ADS11SWG 2008 36 9101 16 2.6 18 1 230 11 3744.808  ADS11SWG 2008 36 9101 40 3.6 18 1 230 11 5185.119  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399  ADS11SWG 2008 36 9402 23 4.6 20 1 229 11 6625.43												
ADS11SWG 2008 36 9101 30 4.0 18 1 233 11 5761.244  ADS11SWG 2008 36 9101 16 2.6 18 1 230 11 3744.808  ADS11SWG 2008 36 9101 40 3.6 18 1 230 11 5185.119  ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399  ADS11SWG 2008 36 9402 23 4.6 20 1 229 11 6625.43												
ADS11SWG 2008 36 9101 16 2.6 18 1 230 11 3744.808 ADS11SWG 2008 36 9101 40 3.6 18 1 230 11 5185.119 ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399 ADS11SWG 2008 36 9402 23 4.6 20 1 229 11 6625.43		_										
ADS11SWG 2008 36 9101 40 3.6 18 1 230 11 5185.119 ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399 ADS11SWG 2008 36 9402 23 4.6 20 1 229 11 6625.43												
ADS11SWG 2008 36 9402 20 4.5 20 1 229 11 6481.399 ADS11SWG 2008 36 9402 23 4.6 20 1 229 11 6625.43												
ADS11SWG 2008 36 9402 23 4.6 20 1 229 11 6625.43	ADS11SWG											
	ADS11SWG										11	
ADS11SWG   2008   33   6730   50   1.7   24   1   224   11   2448.529	ADS11SWG	2008			23				1	229	11	
	ADS11SWG	2008	33	6730	50	1.7	24		1	224	11	2448.529

1	1	1	INEED	i. nigi	IWAIG	COMILIA	IC DESIG	N DEFICI	LIVUILO	ı	rr
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS SHOULDER_ TYPE_CODE			MSRISD_ ADS_NUMBE R	MSRISD_ BIA_CTI
ADS11SWG	2008	32	5000	30	2.8	24		1	220	11	864.78
ADS11SWG	2008	33	6460	10	14.0	20		1	218	11	
ADS11SWG	2008	33	6460	15	7.3	20		1	218	11	
ADS11SWG	2008	33	6460	20	0.9	20		1	218	11	1296.28
ADS11SWG ADS11SWG	2008	36	9402	15	1.2	20		1	212	11	
ADS11SWG ADS11SWG	2008			10	0.9	17			209	11	1296.28
ADS11SWG ADS11SWG	2008	33	6486 6486	30	1.3	22		1	209	11	1872.404
ADS11SWG ADS11SWG	2008			72		24					
		35	8066	75	1.0 3.5			1	209	11	1511.601
ADS11SWG	2008 2008	35 35	8066	80	0.7	22		1	209 209	11	5290.604 1058.121
ADS11SWG			8066							11	
ADS11SWG	2008	36	9000	40	0.7	18		1	206	11	1008.218
ADS11SWG	2008	36	9000	45	4.7	18		1	206	11	6769.461
ADS11SWG	2008	32	5003	10	1.8	12		1	205	11	
ADS11SWG	2008	36	9901	10	9.9	24		1	203	11	
ADS11SWG	2008	32	5010	10	4.4	18		1	202	11	1358.94
ADS11SWG	2008	32	5010	20	0.1	18		1	202	11	30.885
ADS11SWG	2008	32	5010	65	0.3	12		1	202	11	
ADS11SWG	2008	32	5010	80	1.1	12		1	202	11	339.735
ADS11SWG	2008	35	8029	30	3.6	20		1	202	11	5441.765
ADS11SWG	2008	36	28	52	4.4	18		1	202	11	6651.046
ADS11SWG	2008	36	28	54	0.4	18		1	202	11	604.6405
ADS11SWG	2008	36	28	56	1.7	20		1	202	11	2569.722
ADS11SWG	2008	36	28	57	0.7	22		1	202	11	1058.121
ADS11SWG	2008	36	28	58	0.2	24		1	202	11	302.3203
ADS11SWG	2008	36	28	59	0.2	26		1	202	11	302.3203
ADS11SWG	2008	32	5010	40	0.9	18		9	202	11	277.965
ADS11SWG	2008	32	5010	50	1.3	12		9	202	11	401.505
ADS11SWG	2008	32	5010	60	0.3	12		9	202	11	92.655
ADS11SWG	2008	35	271	10	2.0	22		1	199	11	2880.622
ADS11SWG	2008	35	271	15	1.4	22		1	199	11	2016.435
ADS11SWG	2008	32	5002	10	0.6	16		1	198	11	185.31
ADS11SWG	2008	36	692	10	2.1	23		1	196	11	648.585
ADS11SWG	2008	32	8009	10	6.5	10		1	195	11	9362.021
ADS11SWG	2008	33	591	20	2.4	24		1	193	11	3456.746
ADS11SWG	2008	36	37	15	2.1	18		1	193	11	648.585
ADS11SWG	2008	32	5001	30	3.0	20		1	189	11	926.55
ADS11SWG	2008	32	5001	35	1.1	20		1	189	11	339.735
ADS11SWG	2008	32	5001	50	0.4	20		1	189	11	123.54
ADS11SWG	2008	32	5001	70	0.4	20		1	189	11	123.54
ADS11SWG	2008	32	5001	71	0.3	20		1	189	11	92.655
ADS11SWG	2008	32	5001	72	0.6	20		1	189	11	185.31
ADS11SWG	2008	32	5001	73	1.3	20		1	189	11	
ADS11SWG	2008	32	5001	74	1.7	20		1	189	11	525.045
ADS11SWG	2008	32	5001	75	3.3	20		1	189	11	
ADS11SWG	2008	33	6730	30	11.4	24		1	187	11	
ADS11SWG	2008	33	6730	40	14.8	24		1	187	11	21316.6
ADS11SWG	2008	36	9065	10	6.1	18		1	187	11	
ADS11SWG	2008	36	9401	10	10.7	18		1	187	11	15411.33
ADS11SWG	2008	32	5113	10	5.6	22		1	186	11	1729.56
ADS11SWG	2008	32	5113	30	1.1	22		1	186	11	339.735
ADS11SWG	2008	33	221	55	2.4	24		1	183	11	3456.746
ADS11SWG	2008	33	221	60	3.0	24		1	183	11	4320.933
ADS11SWG	2008	35	8017	10	0.5	20		1	183	11	720.1555
ADS11SWG	2008	36	9062	10	1.6	22		1	183	11	
ADS11SWG	2008	36	9062	30	4.9	20		1	183	11	7057.524
ADS11SWG	2008	36	9062	20	6.6	20		1	183	11	
ADS11SWG	2008	36	9062	25	3.5	20		1	183	11	
ADS11SWG	2008	33	221	70	1.6	24		9	183	11	
ADS11SWG	2008	32	30	260	0.6	18		1	181	11	
ADS11SWG	2008	35	8059	30	0.7	20		1	181	11	
ADS11SWG	2008	35	8066	110	1.0	20		1	181	11	
0 11 0110 0	2000	33	5000	110	1.0	20	l .	1	101	1.1	1011.001

	1	1	NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	ır	n
			ROUTE_				MSRIS_	MSRIS	MSRISD_	MSRISD_	
NEED 1	FISCAL_	AGENCY_	NUMBE	SECTION_		ROADWAY_ WIDTH				ADS_NUMBE	
NEED 1	YEAR	CODE	R	NUMBER	LENGTH		TYPE_CODE	TYPE_CODE	T_COUNT	R	BIA_CTI
ADS11SWG	2008	33	71	60	3.6	26		9	181	11	
ADS11SWG	2008	36	9355	10	14.6	18		1	180	11	
ADS11SWG	2008	36	9844	10	8.1	18		1	180	11	
ADS11SWG	2008	33	6450	40	8.7	10		1	178	11	12530.71
ADS11SWG	2008	33	6450	50	3.2	20		1	178	11	4608.995
ADS11SWG	2008	32	5012	60	1.6	24		1	177	11	
ADS11SWG	2008	35	8079	10	5.9	22		1	174	11	8497.835
ADS11SWG	2008	36	69	10	3.5	20		1	171	11	1080.975
ADS11SWG	2008	33	20	50	13.1	24		1	169	11	18868.07
ADS11SWG	2008	35	251	10	2.0	20		1	169	11	2880.622
ADS11SWG	2008	33	20	45	3.4	24		9	169	11	4897.057
ADS11SWG	2008	33	20	65	3.0	24		9	169	11	4320.933
ADS11SWG	2008	36	9404	10	2.8	22		1	168	11	4032.871
ADS11SWG	2008	36	9404	20	3.3	18		1	168	11	4753.026
ADS11SWG	2008	36	9404	30	3.3	16		1	168	11	4753.026
ADS11SWG	2008	32	5005	10	1.7	24		1	166	11	525.045
ADS11SWG	2008	32	5005	20	0.5	24		1	166	11	+
ADS11SWG	2008	32	5005	40	6.6	24		1	166	11	1
ADS11SWG	2008	35	8027	26	2.9	22		1	166	11	4383.644
ADS11SWG	2008	35	8027	28	6.3	20		1	166	11	
ADS11SWG	2008	35	8027	30	9.6	22		1	166	11	14511.37
ADS11SWG	2008	36	9005	20	4.9	18		1	165	11	7057.524
ADS11SWG	2008	36	9005	30	1.5	18		1	165	11	2160.466
ADS11SWG	2008	36	9205	10	3.9	18		1	163	11	5617.213
ADS11SWG	2008	36	9703	10	15.6	18		1	163	11	23580.98
ADS11SWG	2008	36	9840	10	4.9	18		1	163	11	
ADS11SWG	2008	35	29	10	4.7	22		1	160	11	6769.461
ADS11SWG	2008	35	29	20	19.1	23		1	160	11	27509.94
ADS11SWG	2008	36	9001	10	3.9	18		1	160	11	5617.213
ADS11SWG ADS11SWG	2008	36	9001	15	9.9	18		1	160	11	
ADS11SWG ADS11SWG	2008	33	71	70	4.3	22		9	159	11	1
ADS11SWG ADS11SWG	2008	34	7057	20	0.5	20		1	156	11	154.425
ADS11SWG ADS11SWG	2008	34	7128	10	2.1	17		1	156	11	648.585
ADS11SWG ADS11SWG	2008	34	7128	20	6.0	18		1	156	11	1853.1
ADS11SWG ADS11SWG	2008	32	63	180	1.9	24		1	154	11	586.815
ADS11SWG ADS11SWG	2008	32	5020	26	2.2	24		1	154	11	+
ADS11SWG ADS11SWG	2008	32	5020	40	3.4	24		1	154	11	-
ADS11SWG ADS11SWG	2008	32	5020	60	9.5	24		1	154	11	2934.075
ADS11SWG ADS11SWG	2008	36	9011	10	8.5	18		1		11	
ADS11SWG ADS11SWG	2008	35	8074	10		22			151	11	
ADS11SWG ADS11SWG	2008	35	8074	30	5.4	22		1	151	11	1
	2008	35	8074	40	3.4	22			151		
ADS11SWG ADS11SWG	2008	35	8074	50	0.7	22		1	151	11	+
	2008	35	8074			22				11	
ADS11SWG				20	0.7			1	151		
ADS11SWG	2008	35	8084	40		20		1	150	11	
ADS11SWG	2008	35	8084	60	0.1			1	150	11	
ADS11SWG	2008	35	8084	66	1.2	20		1	150	11	
ADS11SWG	2008	35	8084	80	1.6	20		1	150	11	
ADS11SWG	2008	35	8084	100	9.8	20		1	150	11	
ADS11SWG	2008	35	8084	105	2.0	18		1	150	11	
ADS11SWG	2008	35	8084	110	3.9	18		1		11	
ADS11SWG	2008	35	8043	10	10.8	20		1	147	11	
ADS11SWG	2008	35	8063	10	7.1	26		1	144	11	+
ADS11SWG	2008	36	9055	10	9.5	18		1	143	11	
ADS11SWG	2008	36	9406	10	5.4	18		1	143	11	
ADS11SWG	2008	35	172	50	4.2	22		1	140	11	
ADS11SWG	2008	35	8068	30	1.9	20		1	140	11	
ADS11SWG	2008	36	30	80	0.9	20		1	140	11	
ADS11SWG	2008	36	9053	10	6.9	18		1	138	11	
ADS11SWG	2008	35	8034	10	4.1	20		1	137	11	
ADS11SWG	2008	35	8034	20	3.6	20		1	137	11	5185.119

			NEED	1: HIGH	IWAY G	EOMETR	IC DESIG	N DEFICI	ENCIES	1:	77
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS_ SHOULDER_ TYPE_CODE			MSRISD_ ADS_NUMBE R	MSRISD_ BIA_CTI
ADS11SWG	2008	35	8066	140	4.5	22		1	134	11	6802.206
ADS11SWG ADS11SWG	2008	35	8066	150	1.2	20		1	134	11	1813.922
ADS11SWG ADS11SWG	2008	32	38	10	4.4	12		1	132	11	1358.94
ADS11SWG ADS11SWG	2008	32	38	20	2.0	12		1	132	11	617.7
ADS11SWG ADS11SWG	2008	34	46	25	5.4	20		1	132	11	1667.79
	2008	34	46	30	4.0	20					
ADS11SWG ADS11SWG	2008	34	46	40	0.6	20		1	132 132	11	
ADS11SWG ADS11SWG	2008	35	8090	60	7.3	20		1	132	11	
ADS11SWG ADS11SWG	2008	35	8090	62	6.5	22		1	132		
										11	
ADS11SWG	2008 2008	36	321 9051	10	3.8	18		1	131		
ADS11SWG		36				18		1	131	11	
ADS11SWG	2008 2008	36	9051 8065	20 10	4.6 9.4	18 22		1	131 129	11	
ADS11SWG		35						1	_	11	
ADS11SWG	2008	35	8065	30	0.5	22		1	129	11	
ADS11SWG	2008	35	8077	20		20		1	129	11	
ADS11SWG	2008	36	203	10	17.8	18		1	129	11	
ADS11SWG	2008	33	213	10	1.7	24		1	123	11	
ADS11SWG	2008	35	8090	36	3.2	22		1	123	11	4608.995
ADS11SWG	2008	35	8090	40		22		1	123	11	
ADS11SWG	2008	35	8090	45	2.5	22		1	123	11	
ADS11SWG	2008	32	366	20	3.3	18		1	120	11	1019.205
ADS11SWG	2008	33	6810	10	4.7	28		1	120	11	6769.461
ADS11SWG	2008	33	6810	16	0.2	28		1	120	11	288.0622
ADS11SWG	2008	33	6810	20	5.0	28		1	120	11	7201.555
ADS11SWG	2008	35	8090	10	13.3	22		1	120	11	19156.14
ADS11SWG	2008	35	8090	30	4.7	22		1	120	11	
ADS11SWG	2008	35	8090	32	5.1	22		1	120	11	7345.586
ADS11SWG	2008	35	8090	34	6.0	22		1	120	11	8641.866
ADS11SWG	2008	32	5010	120	2.1	12		1	119	11	648.585
ADS11SWG	2008	32	5010	140	0.2	12		1	119	11	61.77
ADS11SWG	2008	33	70	40	0.5	24		1	119	11	
ADS11SWG	2008	33	70	42	0.9	24		1	119	11	1296.28
ADS11SWG	2008	33	70	44	0.2	24		1	119	11	288.0622
ADS11SWG	2008	33	70	46	0.3	24		1	119	11	432.0933
ADS11SWG	2008	33	70	60	0.1	24		1	119	11	144.0311
ADS11SWG	2008	36	9000	10	1.7	20		1	119	11	2448.529
ADS11SWG	2008	36	9000	30	0.6	18		1	119	11	864.1866
ADS11SWG	2008	33	70	70	0.6	24		9	119	11	864.1866
ADS11SWG	2008	33	70	80	3.0	24		9	119	11	4320.933
ADS11SWG	2008	35	8042	10	7.8	18		1	117	11	11790.49
ADS11SWG	2008	36	9002	10	8.6	18		1	117	11	12386.67
ADS11SWG	2008	36	9002	20	1.2	18		1	117	11	1728.373
ADS11SWG	2008	36	9411	10	3.1	20		1	117	11	4464.964
ADS11SWG	2008	36	9450	10	0.8	18		1	117	11	
ADS11SWG	2008	36	9860	10	21.9	18		1	117	11	
ADS11SWG	2008	36	9010	60	2.0	16		1	114	11	
ADS11SWG	2008	36	9074	10	1.1	18		9	114	11	
ADS11SWG	2008	33	70	10	3.6	24		1	113	11	
ADS11SWG	2008	33	6330	5	3.0	16		1	113	11	
ADS11SWG	2008	35	8086	10		22		1	113	11	
ADS11SWG	2008	35	8086	30	5.7	22		1	113	11	
ADS11SWG	2008	35	8088	10	4.8	24		1		11	
ADS11SWG	2008	36	28	30	0.4	20		1	113	11	
ADS11SWG	2008	36	28	40	1.0	22		1	113	11	
ADS11SWG	2008	36	28	43	4.6	18		1	113	11	
ADS11SWG	2008	36	28	46	4.4	18		1	113	11	
ADS11SWG	2008	36	28	50		18		1	113	11	
ADS11SWG	2008	35	8015	10	1.6	18		1	111	11	
ADS11SWG ADS11SWG	2008	35	8015	30	5.5	18		1	111	11	
ADS11SWG ADS11SWG	2008	36	9061	10	3.9	18		1	110	11	
ADS11SWG ADS11SWG	2008	36	9402	85	1.4			1	110		
UD3119 M O	2008	50	2402	0.3	1.4	10		1	110	11	4010.433

	ır 1		NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	Г	11
			ROUTE_				MSRIS	MSRIS	MSRISD_	MSRISD_	
NIEED 1	FISCAL_	AGENCY_	NUMBE	SECTION_		ROADWAY_ WIDTH	SHOULDER_ TYPE CODE			ADS_NUMBE	
NEED 1	YEAR	CODE	R	NUMBER	LENGTH	WIDTH	TYPE_CODE	TYPE_CODE	T_COUNT	R	BIA_CTI
ADS11SWG	2008	35	8074	60	0.1	20		1	108	11	
ADS11SWG	2008	32	5201	10	1.7	12		1	107	11	
ADS11SWG	2008	34	55	20	16.7	20		1	107	11	5157.795
ADS11SWG	2008	34	55	30	7.0	20		1	107	11	2161.95
ADS11SWG	2008	35	8062	10	1.2	20		1	107	11	1728.373
ADS11SWG	2008	33	6720	20	12.4	24		1	105	11	17859.86
ADS11SWG	2008	33	6720	30	0.5	24		1	105	11	720.1555
ADS11SWG	2008	33	6720	50	3.8	22		1	105	11	5473.182
ADS11SWG	2008	33	6720	60	10.2	24		1	105	11	14691.17
ADS11SWG	2008	34	58	10	2.3	20		1	105	11	
ADS11SWG	2008	34	58	20	4.1	20		1	105	11	
ADS11SWG	2008	35	171	10	3.2	24		1	102	11	4608.995
ADS11SWG	2008	32	5200	10	3.2	12		1	101	11	
ADS11SWG	2008	33	6440	10	7.4	20		1	101	11	
ADS11SWG	2008	33	6440	30	5.0	30		1	101	11	7201.555
ADS11SWG	2008	33	6440	40	2.3	30		1	101	11	119.715
ADS11SWG ADS11SWG	2008	33	6440	50	5.7	30		1	101	11	296.685
ADS11SWG ADS11SWG	2008	33	6440	70	1.8	30		1	101	11	+
ADS11SWG ADS11SWG	2008	33	6440	75	0.3	30		1	101	11	15.615
ADS11SWG ADS11SWG	2008	33	753	10		20		_	101		
		_			1.9			1		11	1
ADS11SWG	2008	35	8017	30	1.9	20		1	101	11	2736.591
ADS11SWG	2008	35	8017	50	0.5	20		1	101	11	720.1555
ADS11SWG	2008	35	8017	70	1.0	20		1	101	11	
ADS11SWG	2008	32	5056	10	2.9	17		1	99	11	4176.902
ADS11SWG	2008	32	5056	30	2.5	17		1	99	11	3600.777
ADS11SWG	2008	32	5091	10	2.8	20		1	99	11	
ADS11SWG	2008	32	5091	30	3.3	20		1	99	11	
ADS11SWG	2008	32	5091	40	7.1	10		1	99	11	2192.835
ADS11SWG	2008	32	5091	60	3.2	10		1	99	11	988.32
ADS11SWG	2008	32	5091	70	0.5	22		1	99	11	154.425
ADS11SWG	2008	32	5091	90	5.0	22		1	99	11	1544.25
ADS11SWG	2008	32	5091	110	4.5	22		1	99	11	1389.825
ADS11SWG	2008	32	5091	120	1.1	12		1	99	11	339.735
ADS11SWG	2008	32	5091	50	0.3	10		1	99	11	92.655
ADS11SWG	2008	35	26	40	1.7	20		1	99	11	2448.529
ADS11SWG	2008	35	26	60	1.0	20		1	99	11	1440.311
ADS11SWG	2008	35	26	80	3.3	20		1	99	11	4753.026
ADS11SWG	2008	33	6530	20	1.9	26		1	97	11	2736.591
ADS11SWG	2008	36	9857	10	12.0	20		1	97	11	17283.73
ADS11SWG	2008	35	8060	20	4.9	20		1	94	11	
ADS11SWG	2008	35	8060	10	0.7	20		1	94		1
ADS11SWG	2008	35	8030	16	15.0	18		1	91	11	
ADS11SWG	2008	33	6830	10	3.8	24		1	89	11	
ADS11SWG	2008	33	6830	20	6.0	20		1	89	11	+
ADS11SWG	2008	35	8008	10		22		1	89	11	
ADS11SWG	2008	35	8082	10	9.1	22		1	89	11	
ADS11SWG ADS11SWG	2008	35	171	30	4.2	24		1	88	11	
ADS11SWG ADS11SWG	2008	35	8059	40	3.4	20		1	88	11	-
ADS11SWG ADS11SWG	2008	35	8059	60	2.7	20		1	88	11	
ADS11SWG ADS11SWG	2008	35	8059	70	1.6	20			88		
								1		11	
ADS11SWG	2008	35	8059	80	2.0	20		1	88	11	
ADS11SWG	2008	32	5060	40	8.6	24		1	86		
ADS11SWG	2008	32	5060	50	2.0	18		1	86	11	
ADS11SWG	2008	32	5060	80	5.2	24		1	86	11	
ADS11SWG	2008	36	9754	10	3.7	16		1	86	11	
ADS11SWG	2008	36	9811	10	8.3	16		1	86		
ADS11SWG	2008	32	191	10	2.5	20		1	85	11	
ADS11SWG	2008	33	70	30	1.0	24		1	85	11	
ADS11SWG	2008	33	70	20	2.9	24		9	85	11	4176.902
ADS11SWG	2008	35	18	10	4.5	22		1	83	11	6481.399
ADS11SWG	2008	35	18	30	5.1	22		1	83	11	7345.586

	1		NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	ı	11
			ROUTE_				MSRIS	MSRIS_	MSRISD_	MSRISD_	
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	SHOULDER_ TYPE_CODE	SURFACE_ TYPE_CODE		ADS_NUMBE R	MSRISD_ BIA_CTI
ADS11SWG	2008	35	18	40	7.8	22		1	83	11	11234.43
ADS11SWG	2008	32	362	10	3.8	20		1	82	11	
ADS11SWG	2008	32	362	15	1.3	20		1	82	11	401.505
ADS11SWG	2008	32	362	20	1.1	24		1	82	11	+
ADS11SWG	2008	32	5004	10	3.7	15		1	82	11	1142.745
ADS11SWG	2008	32	5004	20	1.5	10		1	82	11	463.275
ADS11SWG	2008	32	5054	10	5.8	12		1	80	11	8353.804
ADS11SWG	2008	32	5054	30	3.1	12		1	80	11	4464.964
ADS11SWG	2008	33	161	10	6.8	10		1	80	11	9794.114
ADS11SWG	2008	36	37	40	4.3	18		1	80	11	1328.055
ADS11SWG	2008	36	9068	10	6.1	18		1	79	11	8785.897
ADS11SWG	2008	36	9311	10	1.9	16		1	79	11	2736.591
ADS11SWG	2008	36	9606	20	13.8	16		1	79	11	19876.29
ADS11SWG	2008	36	9841	10	4.8	18		1	79	11	6913.493
ADS11SWG	2008	36	9864	10	6.5	16		1	79	11	9362.021
ADS11SWG	2008	33	21	10	7.6	24		9	79	11	10946.36
ADS11SWG	2008	32	5021	10	2.7	17		1	77	11	833.895
ADS11SWG	2008	32	5021	30	1.3	17		1	77	11	401.505
ADS11SWG	2008	34	57	23	0.6	14		1	77	11	185.31
ADS11SWG	2008	34	57	26	2.6	14		1	77	11	
ADS11SWG	2008	34	57	30	2.6	16		1	77	11	
ADS11SWG	2008	32	5040	10	12.8	24		1	76	11	+
ADS11SWG	2008	32	5040	20	0.6	18		1	76	11	
ADS11SWG	2008	35	8061	10	2.4	18		1	76	11	3627.843
ADS11SWG	2008	35	61	10	0.3	18		1	76	11	
ADS11SWG	2008	35	61	30	1.1	18		1	76	11	
ADS11SWG	2008	32	5	45	9.7	16		1	74	11	2995.845
ADS11SWG	2008	32	57	20	1.0	20		1	74	11	308.85
ADS11SWG	2008	32	63	170	1.2	16		1	74	11	
ADS11SWG	2008	32	133	10	0.5	18		1	74	11	
ADS11SWG ADS11SWG	2008	32	133 133	30 50	0.7	18		1	74 74	11	
ADS11SWG ADS11SWG	2008 2008	32	133	60	0.1	18 18		1	74	11	30.885
ADS11SWG ADS11SWG	2008	32	334	10	3.3	18		1	74	11	
ADS11SWG ADS11SWG	2008	32	334	20	1.0	18		1	74	11	1
ADS11SWG ADS11SWG	2008	32	334	35	1.8	18		1	74	11	+
ADS11SWG	2008	32	5009	10	1.1	22		1	74	11	
ADS11SWG	2008	32	5009	30	1.1	22		1	74	11	339.735
ADS11SWG	2008	32	5013	5	1.6	18		1	74	11	
ADS11SWG	2008	32	5013	10		18		1	74		
ADS11SWG	2008	32	5013	30		18		1	74		1
ADS11SWG	2008	32	5014	20	1.6	12		1	74	11	
ADS11SWG	2008	32	5019	10	2.0	22		1	74	11	+
ADS11SWG	2008	32	5020	20	1.7	24		1	74		
ADS11SWG	2008	32	5020	23	7.6	24		1	74	11	
ADS11SWG	2008	32	5048	10	2.0	14		1	74	11	2880.622
ADS11SWG	2008	32	5053	10	5.0	12		1	74	11	7201.555
ADS11SWG	2008	32	5055	10	3.2	12		1	74	11	4608.995
ADS11SWG	2008	32	5058	10	1.0	12		1	74	11	1440.311
ADS11SWG	2008	32	5058	20	2.1	12		1	74	11	109.305
ADS11SWG	2008	32	5058	30	5.1	12		1	74	11	7345.586
ADS11SWG	2008	32	5067	10	2.5	16		1	74	11	130.125
ADS11SWG	2008	32	5090	10	2.1	14		1	74	11	109.305
ADS11SWG	2008	32	5111	10	0.6	10		1	74	11	
ADS11SWG	2008	32	5111	30	3.0	16		1	74	11	
ADS11SWG	2008	32	5111	40	1.5	18		1	74	11	
ADS11SWG	2008	32	5111	60	0.8	18		1	74	11	
ADS11SWG	2008	32	5111	80	1.1	18		1	74	11	1
ADS11SWG	2008	32	8009	20	2.5	10		1	74	11	
ADS11SWG	2008	32	5	50	1.3	16		1	74		
ADS11SWG	2008	33	70	90	3.0	24		1	74	11	4320.933

			NEED	1: HIGH	IWAY G	EOMETR	IC DESIG	N DEFICI	ENCIES	1:	77
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS_ SHOULDER_ TYPE_CODE			MSRISD_ ADS_NUMBE R	MSRISD_ BIA_CTI
							TITE_CODE				ļ
ADS11SWG	2008	33	212	10	2.5	20		1	74	11	
ADS11SWG	2008	33	213	20	4.7	24		1	74		
ADS11SWG	2008	33	213	30	5.3	24		1	74	11	
ADS11SWG	2008	33	213	40	2.3	24		1	74	11	
ADS11SWG	2008	33	213	50	0.8	24		1	74	11	
ADS11SWG	2008	33	213	60	2.7	24		1	74	11	3888.84
ADS11SWG	2008	33	213	70	4.2	23		1	74	11	
ADS11SWG	2008	33	214	10	2.9	20		1	74	11	
ADS11SWG	2008	33	1012	20	5.6	16		1	74	11	
ADS11SWG	2008	33	5910	10	3.8	21		1	74	11	
ADS11SWG	2008	33	6329	10	1.1	16		1	74	11	
ADS11SWG	2008	33	6330	10	11.8	13		1	74	11	
ADS11SWG	2008	33	6330	20	3.0	18		1	74	11	
ADS11SWG	2008	33	6330	30	5.2	18		1	74	11	
ADS11SWG	2008	33	6330	40		22		1	74	11	
ADS11SWG	2008	33	6330	45	3.5	22		1	74	11	
ADS11SWG	2008	33	6331	40	2.4	24		1	74	11	
ADS11SWG	2008	33	6331	45	0.8	24		1	74	11	1152.249
ADS11SWG	2008	33	6541	10		30		1	74	11	
ADS11SWG	2008	33	6732	10	5.5	24		1	74	11	
ADS11SWG	2008	33	6732	30	15.5	24		1	74	11	22324.82
ADS11SWG	2008	33	6733	10	5.6	15		1	74	11	8065.741
ADS11SWG	2008	33	6910	10	6.4	18		1	74	11	9217.99
ADS11SWG	2008	33	6910	30	1.6	18		1	74	11	2304.498
ADS11SWG	2008	33	6910	35	0.5	18		1	74	11	720.1555
ADS11SWG	2008	33	6910	40	4.0	24		1	74	11	5761.244
ADS11SWG	2008	33	6910	45	7.9	24		1	74	11	11378.46
ADS11SWG	2008	33	6921	10	5.9	24		1	74	11	8497.835
ADS11SWG	2008	33	6922	10	2.4	18		1	74	11	3456.746
ADS11SWG	2008	33	6923	10	2.5	18		1	74	11	3600.777
ADS11SWG	2008	33	6923	20	3.7	18		1	74	11	5329.151
ADS11SWG	2008	33	6923	40	0.1	20		1	74	11	144.0311
ADS11SWG	2008	33	6930	10	0.3	18		1	74	11	432.0933
ADS11SWG	2008	33	6930	20	5.4	18		1	74	11	7777.679
ADS11SWG	2008	33	6930	30	5.9	20		1	74	11	8497.835
ADS11SWG	2008	33	6930	40	0.3	24		1	74	11	432.0933
ADS11SWG	2008	33	6931	10	5.7	24		1	74	11	8209.772
ADS11SWG	2008	33	8071	10	12.9	18		1	74	11	18580.01
ADS11SWG	2008	33	6910	10	2.8	18		1	74	11	4032.871
ADS11SWG	2008	33	6930	5	3.4	18		1	74	11	4897.057
ADS11SWG	2008	33	6250	10	4.9	15		1	74	11	7057.524
ADS11SWG	2008	33	6250	20	3.9	20		1	74	11	5617.213
ADS11SWG	2008	34	7031	10	0.5	18		1	74	11	
ADS11SWG	2008	34	7057	22	2.3	20		1	74	11	
ADS11SWG	2008	34	7057	24	2.8	20		1	74	11	
ADS11SWG	2008	34	7057	30	1.1	20		1	74	11	339.735
ADS11SWG	2008	34	7057	40	7.7	20		1	74	11	
ADS11SWG	2008	34	7057	50	2.1	20		1	74	11	648.585
ADS11SWG	2008	34	7057	60	5.0	20		1	74	11	1544.25
ADS11SWG	2008	34	7057	80	1.4	20		1	74	11	
ADS11SWG	2008	34	7057	90	0.8	18		1	74	11	
ADS11SWG	2008	34	7057	110	5.2	18		1	74	11	
ADS11SWG	2008	35	172	70	2.4	18		1	74		
ADS11SWG	2008	35	172	90	3.5	18		1	74	11	
ADS11SWG	2008	35	8034	25	1.9	20		1	74	11	
ADS11SWG	2008	35	8034	30	15.3	20		1	74	11	22036.76
ADS11SWG	2008	35	8076	10	10.5	25		1	74		
ADS11SWG	2008	35	8083	10	4.0	22		1	74	11	
ADS11SWG ADS11SWG	2008	35	8083	30	4.9	22		1	74	11	
ADS11SWG ADS11SWG	2008	35	8083	50	1.5	22		1	74		
ADS11SWG ADS11SWG	2008	35	8088	20				1	74		
ס אא מדדמחדי	2008	33	0000	20	0.3	10		1	/4	11	1202.021

	1	Г 1	INLLD	1.11101	IVVAIG	LOWILTK	IC DESIG	N DEI ICI	LINGILO	li .	1
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS_ SHOULDER_ TYPE_CODE			MSRISD_ ADS_NUMBE R	MSRISD_ BIA_CTI
ADS11SWG	2008	35	8089	10	4.1	12		1	74	11	5905.275
ADS11SWG	2008	35	8089	20	6.1	22		1	74		
ADS11SWG ADS11SWG	2008	35	8094	10	1.2	20		1	74	11	
ADS11SWG ADS11SWG											
	2008	35	8094	20	0.3	20		1	74		
ADS11SWG	2008	35	8094	23	5.7	20		1	74		
ADS11SWG	2008	36	69	40	1.4	21		1	74		
ADS11SWG	2008	36	152	10	0.8	16		1	74		
ADS11SWG	2008	36	152	20	0.5	16		1	74		720.1555
ADS11SWG	2008	36	155	10	8.4	16		1	74		
ADS11SWG	2008	36	601	10	4.2	16		1	74		
ADS11SWG	2008	36	9012	10	1.2	24		1	74		
ADS11SWG	2008	36	9014	10	5.2	18		1	74		7489.617
ADS11SWG	2008	36	9031	40	2.4	18		1	74	11	3456.746
ADS11SWG	2008	36	9057	10	12.5	18		1	74	11	18003.89
ADS11SWG	2008	36	9067	10	1.3	18		1	74	11	1872.404
ADS11SWG	2008	36	9101	18	3.2	18		1	74	11	4608.995
ADS11SWG	2008	36	9102	20	7.6	18		1	74	11	10946.36
ADS11SWG	2008	36	9304	10	6.7	18		1	74	11	9650.083
ADS11SWG	2008	36	9310	10	1.5	16		1	74	11	2160.466
ADS11SWG	2008	36	9345	25	0.8	18		1	74	11	1152.249
ADS11SWG	2008	36	9351	10	1.2	16		1	74	11	
ADS11SWG	2008	36	9351	20	4.1	14		1	74		1
ADS11SWG	2008	36	9352	10	6.0	18		1	74	11	8641.866
ADS11SWG	2008	36	9353	10	2.8	18		1	74		
ADS11SWG	2008	36	9410	10	10.2	18		1	74	11	
ADS11SWG	2008	36	9502	10	2.9	18		1	74		
ADS11SWG	2008	36	9653	10	9.5	18		1	74	11	2934.075
ADS11SWG	2008	36	9753	10	6.5	14		1	74		
ADS11SWG ADS11SWG	2008	36	9801	10	2.7	16		1	74		+
ADS11SWG ADS11SWG	2008	36	9843	10	5.5	18		1	74		
ADS11SWG ADS11SWG	2008	36	9845	10	3.9	18		1	74		5617.213
ADS11SWG ADS11SWG	2008	36	9858	30	5.2	16		1	74		7489.617
ADS11SWG ADS11SWG	2008	36	9859	10	2.2	18		1	74	11	3168.684
ADS11SWG ADS11SWG	2008	36	9861	10	5.8	14		1	74		
ADS11SWG ADS11SWG	2008	36	9863	10	1.4	16		1	74		2016.435
ADS11SWG ADS11SWG	2008	36	9000	20	1.4	24		1	74		
ADS11SWG ADS11SWG	2008	36	9102	10	0.5	18		1	74		1
ADS11SWG ADS11SWG	2008	32	63	110	1.3			9			1872.404
ADS11SWG ADS11SWG	2008	32	63			8		9	74		
		32		130 150	2.8			-			864.78 1050.09
ADS11SWG	2008		63			24		9			
ADS11SWG	2008	33	21	106	2.2				74		3168.684
ADS11SWG	2008	33	40	10	3.5	22		9			5041.088
ADS11SWG	2008	33	40	20	3.5	22		9			
ADS11SWG	2008	34	47	10		17		9			
ADS11SWG	2008	34	47	20	4.3	16		9			
ADS11SWG	2008	35	8077	10	5.5	8		9			
ADS11SWG	2008	36	9655	10	9.7	18		9	74		
ADS11SWG	2008	36	9803	10	7.2	16		9			+
ADS11SWG	2008	36	9812	10	1.2	8		9	74	11	
ADS11SWG Total		(FADT 5					_				2036678
ADS12	2008	33	221	20	0.5	32	3	5			
ADS12	2008	33	221	25	0.1	32	3				
ADS12	2008	33	221	40	0.1	34	3	5	1476	12	
ADS12 Total					0.7						9.741
ADS12S	2008	34	48	50	1.9	34	3	4	566	12	
ADS12S Total		Needing	•								650.75
ADS12SW	2008	34	11	90		24		1	686		
ADS12SW	2008	32	364	20	0.5	12		1	508		1
ADS12SW	2008	36	125	10	3.7	20		1	487		2625.243
ADS12SW	2008	36	125	15	0.7	20		1	487		496.6675
ADS12SW	2008	36	30	170	7.5	26		1	486	12	6478.125

		1	NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	I	n
			ROUTE_				MSRIS_	MSRIS_	MSRISD_	MSRISD_	
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH		SURFACE_ TYPE CODE		ADS_NUMBE R	MSRISD_ BIA_CTI
	<u> </u>						TYPE_CODE				
ADS12SW	2008	34	7052	10	3.3	18		1	466	12	
ADS12SW	2008	34	7052	40	1.3	18		9	466	12	
ADS12SW	2008	35	25	50	0.5	26		1	441	12	
ADS12SW	2008	35	26	30	0.7	20		1	420	12	
ADS12SW	2008	36	321	100	2.0	18		1	404	12	1727.5
ADS12SW	2008	36	321	105	0.8	18		1	404	12	691
ADS12SW	2008	36	9501	20	6.2	18		1	398	12	5355.25
ADS12SW	2008	36	7	80	1.3	24		1	383	12	922.3825
ADS12SW	2008	32	362	30	0.5	20		1	356	12	431.875
ADS12SW	2008	33	221	50	2.1	24		1	347	12	1490.003
ADS12SW	2008	32	68	20	2.1	22		1	318	12	1490.003
ADS12SW	2008	32	68	30	6.1	18		1	318	12	4328.103
ADS12SW	2008	36	9702	20	5.8	14		1	291	12	4115.245
ADS12SW	2008	36	28	90	2.9	18		1	285	12	2151.786
ADS12SW	2008	36	28	93	2.1	18		1	285	12	1558.19
ADS12SW	2008	36	28	96	6.1	16		1	285	12	4526.17
ADS12SW	2008	36	28	116	1.2	18		3	279	12	
ADS12SW	2008	36	9658	10	3.2	18		1	273	12	
ADS12SW	2008	36	9658	20	9.1	18		1	273	12	7860.125
ADS12SW	2008	36	321	110	1.8	18		1	251	12	1554.75
ADS12SW Total		needing			76.6	- 10		-		1-	61130.04
112512511 10001	110012	necumg .	Juliue C	.pgrade ai	7010						0112010
ADS12SWG	2008	34	52	40	0.8	20		1	236	12	558.2
ADS12SWG	2008	34	52	50	1.3	20		1	236	12	
ADS12SWG	2008	36	31	35	1.5	20		1	236	12	
ADS12SWG	2008	32	5000	20	5.0	16		1	220	12	
ADS12SWG	2008	35	8029	40	10.6	20		1	202	12	
ADS12SWG	2008	36	37	10	3.9	18		1	193	12	
ADS12SWG ADS12SWG	2008	33	6450	10	3.4	10		1	190	12	
ADS12SWG ADS12SWG	2008	33	6450	20	3.6	12		1	190	12	
ADS12SWG	2008	33	6450	30	2.4	14		1	190	12	
ADS12SWG ADS12SWG	2008	32	30	210	8.3	12		1	181	12	
ADS12SWG ADS12SWG	2008	32	30	220	0.3	12		1	181	12	
ADS12SWG ADS12SWG	2008	32	30	230	2.5	12		1	181	12	
ADS12SWG ADS12SWG	2008	32	30	240	5.4	12		1	181	12	
ADS12SWG ADS12SWG	2008	32	30	250	2.3	10		1	181	12	
ADS12SWG ADS12SWG	2008	35	8066	90	4.3	20		1	181	12	
ADS12SWG ADS12SWG	2008	35	8066	100	3.8	20		1	181	12	
ADS12SWG ADS12SWG	2008	36	30	180	2.8	18		1	181	12	
ADS12SWG ADS12SWG	2008	36		100		16			175		
ADS12SWG ADS12SWG	2008	36	9603	30		16		1	175	12	
ADS12SWG ADS12SWG	2008	36	30	100	0.8	20			140	12	
ADS12SWG ADS12SWG	2008		30	120		20		1	140	12	
	2008	36	30	140	1.0	20			140		
ADS12SWG		36	30		2.2	_		1	_	12	
ADS12SWG	2008	36		143	2.2	20		1	140	12	
ADS12SWG	2008	36	30	146	0.2	_		1	140	12	
ADS12SWG	2008	36	30	160	7.0	20		1	140	12	
ADS12SWG	2008	36	321	10	2.8	16		1	131	12	
ADS12SWG	2008	36	321	20	1.7	16		1	131	12	
ADS12SWG	2008	36	321	30	1.4	16		1	131	12	
ADS12SWG	2008	36	28	110	6.4	20		1	117	12	
ADS12SWG	2008	36	28	113	5.4	26		1	117	12	
ADS12SWG	2008	32	19	10	6.1	16		1	114		4256.275
ADS12SWG	2008	35	8015	40	3.7	18		1	111	12	
ADS12SWG	2008	35	8015	60	2.5	20		1	111	12	
ADS12SWG	2008	35	8017	20	0.6	20		1	101	12	
ADS12SWG	2008	32	5006	10	1.2	16		1	97	12	837.3
ADS12SWG	2008	32	5006	15	1.5	16		1	97	12	
ADS12SWG	2008	32	30	190	17.5	22		1	74	12	12271.88
ADS12SWG	2008	32	30	200	5.2	12		1	74	12	3628.3
ADS12SWG	2008	32	34	10	0.5	12		1	74	12	314.8605

i I	1		NLLD	1.11101	IVAIG	LOWILTIN	IC DESIG	N DEI ICI	LITCILO	1	11
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS SHOULDER_ TYPE_CODE			MSRISD_ ADS_NUMBE R	MSRISD_ BIA_CTI
ADS12SWG	2008	32	34	20	9.8	12		1	74	12	6837.95
ADS12SWG	2008	32	5000	10	3.6	24		1	74	12	1
ADS12SWG	2008	32	5013	50	0.2	12		1	74	12	
ADS12SWG	2008	32	5013	60	0.3	12		1	74	12	
ADS12SWG	2008	32	5013	80	4.3	12		1	74	12	1
ADS12SWG ADS12SWG	2008	32	5013	90	6.3	12		1	74	12	+
ADS12SWG ADS12SWG	2008	32	5013	10	2.1	12		1	74	12	
ADS12SWG ADS12SWG	2008	33	215	10	4.9	16		1	74	12	
ADS12SWG ADS12SWG	2008	35	172	60	0.7	18		1	74	12	
ADS12SWG ADS12SWG	2008	35	8030	20	4.7	18		1	74	12	
	2008	35	8030	30	5.6	18		1	74	12	1
ADS12SWG ADS12SWG	2008	33	40	30	9.2	22		9	74		
						2.2		9	/4	12	
ADS12SWG Total		(FADT 5				20	2	4	215	10	125286.1
ADS13	2008	48	4080	10	0.6	28	3	4	315	13	
ADS13	2008	48	4083	10	0.3	28	3	4	315	13	
ADS13	2008	36	123	20	0.6	28		3	146	13	
ADS13	2008	48	4145	20	0.2	28	3	5	74	13	
ADS13 Total					1.7						1040.775
ADS13S	2008	32	5050	10	0.1	28		1	465	13	
ADS13S Total	ADS 13	needing	only surf	ace upgra	0.1						90.835
ADS13SG	2008	34	7114	10	5.3	13		1	144	13	1936.885
ADS13SG ADS13SG	2008	34	486	10	3.5	21		1			+
								1	126	13	
ADS13SG	2008	32	5092	40	2.9	12		1	119	13	
ADS13SG	2008	32	5041	10	0.2	20		1	111	13	
ADS13SG	2008	34	482	10	6.5	22		1	107	13	
ADS13SG	2008	32	5024	10	2.2	24		1	105	13	
ADS13SG	2008	33	594	10	9.4	26		1	105	13	
ADS13SG	2008	34	551	10	0.8	18		9	102	13	
ADS13SG	2008	32	5205	10	3.7	12		1	101	13	
ADS13SG	2008	34	7077	10	0.8	20		1	101	13	
ADS13SG	2008	34	7009	10	3.1	18		1	101	13	
ADS13SG	2008	34	7009	20	1.1	18		1	101	13	
ADS13SG	2008	33	6110	20	1.0	18		1	99	13	
ADS13SG	2008	36	691	40	1.5	14		1	99	13	
ADS13SG	2008	34	7136	10	8.8	18		1	79	13	
ADS13SG	2008	32	132	10	0.5	18		1	74	13	
ADS13SG	2008	32	132	30	0.7	10		1	74	13	
ADS13SG	2008	32	132	40	2.3	24		1	74	13	
ADS13SG	2008	32	546	20				1	74		
ADS13SG	2008	32	547	10	1.8	22		1	74	13	
ADS13SG	2008	32	548	10	2.2	22		1	74	13	
ADS13SG	2008	32	549	10	1.9	16		1	74	13	
ADS13SG	2008	32	550	10	1.9	16		1	74	13	
ADS13SG	2008	32	5035	10	6.0	16		1	74	13	
ADS13SG	2008	32	5081	30	3.3	12		1	74	13	1205.985
ADS13SG	2008	32	5085	10	7.3	24		1	74	13	2667.785
ADS13SG	2008	33	6261	10	9.7	18		1	74	13	7879.795
ADS13SG	2008	33	6261	20	0.8	20		1	74	13	649.88
ADS13SG	2008	33	6261	30	0.7	15		1	74	13	568.645
ADS13SG	2008	33	6326	10	1.3	18	1	1	74	13	1056.055
ADS13SG	2008	33	6326	40	0.9	20	1	1	74	13	731.115
ADS13SG	2008	33	6822	10	4.9	18	1	1	74	13	
ADS13SG	2008	34	7036	10	0.7	18		1	74	13	
ADS13SG	2008	34	7036	20	0.9	21		1	74		
ADS13SG	2008	34	7038	10	1.0	20		1	74	13	
ADS13SG	2008	34	7072	10	0.5	18		1	74	13	
ADS13SG	2008	34	7073	10	1.4	18		1	74	13	
ADS13SG ADS13SG	2008	34	7075	10	1.9	20		1	74		
ADS13SG ADS13SG	2008	34	7073	10	4.3	18		1	74	13	
ADS13SG ADS13SG	2008	34	7141	10	0.3			1	74		+
מפנופתא	2008	54	/141	10	0.3	<u> </u>	L	1	/4	13	109.033

1		1	NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	11	n
			ROUTE_				MSRIS_	MSRIS_	MSRISD_	MSRISD_	
NEED 1	FISCAL_	AGENCY_	NUMBE	SECTION_	SECTION_ LENGTH		SHOULDER_			ADS_NUMBE	
NEED 1	YEAR	CODE	R	NUMBER		WIDTH	TYPE_CODE	TYPE_CODE		R	BIA_CTI
ADS13SG	2008	34	9652	60	0.4	20		1	74		
ADS13SG	2008	34	9652	65	1.4	20		1	74		
ADS13SG	2008	34	9652	70	0.4	20		1	74	13	146.18
ADS13SG	2008	34	9652	75	0.6	20		1	74	13	219.27
ADS13SG	2008	34	7043	30	0.1	20		1	74	13	37.275
ADS13SG	2008	34	7117	10	0.8	18		1	74	13	292.36
ADS13SG	2008	34	7130	10	0.8	14		1	74	13	292.36
ADS13SG	2008	34	7141	20	3.1	20		1	74	13	1132.895
ADS13SG	2008	36	9760	30	1.8	14		1	74	13	1462.23
ADS13SG	2008	36	9751	10	6.9	18		1	74		+
ADS13SG	2008	48	101	10	0.1	22		1	74		
ADS13SG	2008	32	5094	10	0.3	20		3			
ADS13SG Total		needing			125.3				, .	- 15	66262.56
ADS13W	2008	36	543	10	0.2	22	3	4	1466	13	
ADS13W	2008	36	543	30	0.1	22	3	4	1466		
ADS13W	2008	0	2016	10	0.1	24	3	4		13	
ADS13W ADS13W	2008	0	2016	20	0.8	24	3	4	402	13	
ADS13W ADS13W	2008	48	4085	10	1.4	26	3	4			
ADS13W ADS13W	2008	48	4103	10	1.4	26	3	4	315	13	
ADS13W ADS13W	2008	48	4068	10	0.3	26	3			_	
							3	4			
ADS13W	2008	33	6150	40	1.2	24		4	272	13	
ADS13W Total	ADS 13	needing	only road	dway wide	5.5						3879.425
ADS13WG	2008	0	2316	12	0.2	18	3	4	74	13	
ADS13WG	2008	32	546	10	1.7	22		4	74		1
ADS13WG	2008	32	551	10	0.8	24		4	74		
ADS13WG	2008	32	552	10	2.7	24		4	74		
ADS13WG	2008	32	553	10	1.0	24		4	74		201.75
ADS13WG	2008	35	803	10	0.2	24	3	4	74	13	150.65
ADS13WG Total	ADS 13	(FADT 5	0-400) n	needing or	6.6						1552.15
ADS13SW	2008	34	7054	20	0.2	24		1	1044	13	112.29
ADS13SW	2008	32	5073	10	0.6	14		1	887	13	336.87
ADS13SW	2008	48	101	20	0.4	22		1	689	13	227.5
ADS13SW	2008	36	691	30	0.3	14		1	386	13	168.435
ADS13SW	2008	36	541	10	0.1	24		1	350	13	56.145
ADS13SW	2008	36	541	30	0.2	24		1	350	13	112.29
ADS13SW	2008	34	481	10	4.8	24		1	334	13	2730
ADS13SW	2008	34	481	20	7.1	24		1	334	13	
ADS13SW	2008	34	481	30	1.7	24		1	334	13	954.465
ADS13SW	2008	34	481	35	4.8	24		1	334		2694.96
ADS13SW	2008	34	488	10	1.0	22		1	284		
ADS13SW	2008	34	541	10	0.7	24		1	257		
ADS13SW	2008	36	157	10	15.2	18		1	252		+
ADS13SW	2008	36	157	20	6.0	18		1	252		
ADS13SW Total		needing				10		-	232	13	31595.85
ADS13SWG	2008	32	193	20		12		1	244	13	
ADS13SWG ADS13SWG	2008	32	193	30	1.4	20		1	244		
ADS13SWG ADS13SWG	2008	36	691	20	1.4	16		1	200		+
ADS13SWG ADS13SWG	2008	36	9759	10	1.4	8		1	187	_	
ADS13SWG ADS13SWG	2008	33	6260	10	2.0	20			186		
	2008		7135	10		16		1			
ADS13SWG		34			3.0			1		13	
ADS13SWG	2008	36	9452	10	0.2	18		1	177		1
ADS13SWG	2008	32	5070	10	0.8	12		1	175		
ADS13SWG	2008	36	9813	10	5.5	22		1	159		
ADS13SWG	2008	32	5022	10	0.7	24		1			
ADS13SWG	2008	32	5022	20	1.3	18		1	150	13	
ADS13SWG Total		(FADT 5									10592.06
ADS14	2008	32	365	60	1.2	30	3	4			836.8929
ADS14	2008	48	4100	10	0.2	32	3	4	593	14	139.4822
ADS14	2008	48	4100	20	0.4	32	3	4	593		278.9643
ADS14	2008	48	4100	25	0.7	32					488.1875

<del></del>	11	1	NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	1	TI
			ROUTE_				MSRIS_	MSRIS	MSRISD_	MSRISD_	
NEED 1	FISCAL_	AGENCY_	NUMBE	SECTION_			SHOULDER_			ADS_NUMBE	
NEED 1	YEAR	CODE	R	NUMBER	LENGTH	WIDTH		TYPE_CODE		R	BIA_CTI
ADS14	2008	48	4049	20	4.2	28	3	4	456	14	
ADS14	2008	35	291	10	0.7	28	3	4	441	14	
ADS14	2008	48	4145	10	2.1	30	3	5	404	14	445.1512
ADS14	2008	48	4146	10	0.1	32	3	5	404	14	21.19768
ADS14	2008	48	4146	20	1.9	32	3	5	404	14	955.1523
ADS14	2008	48	4154	10	0.7	30	3	5	399	14	351.8982
ADS14	2008	48	4154	20	3.4	30	3	5	399	14	1709.22
ADS14	2008	48	4155	10	0.7	30	3	5	399	14	148.3837
ADS14	2008	48	4155	20	1.1	30	3	5	399	14	
ADS14	2008	32	363	20	0.1	34	3			14	
ADS14	2008	48	4164	10	1.4	30	3	5		14	
ADS14	2008	48	4150	10	4.9	30	3	5		14	
ADS14	2008	48	4104	10	0.5	30	3	4	189	14	
ADS14	2008	48	4104	20	0.5	30				14	
ADS14 ADS14	2008	48	4104	25	1.0	30	3	4	189	14	
ADS14 ADS14	2008	48	4101	10	0.2	32	3	4		14	
ADS14 ADS14	2008	48			0.2	30					
		_	4101	15			3	4	153	14	
ADS14	2008	48	4101	20	0.3	30 30	3	4		14	
ADS14	2008	32	332	10	1.8			3	151	14	
ADS14	2008	32	332	30	2.4	30		3		14	
ADS14	2008	32	332	35	1.0	30		3	76	14	
ADS14	2008	32	332	40	0.1	30		3		14	
ADS14	2008	32	332	60	0.1	30		3		14	
ADS14	2008	33	6470	10	2.0	30		3		14	
ADS14	2008	36	391	10	0.5	34	3	4	74	14	
ADS14 Total					35.0						22959.71
ADS14S	2008	33	6150	30	2.9	30		1	272	14	6021.294
ADS14S Total	ADS 14	needing	only surf	face upgra	2.9						6021.294
ADS14SG	2008	34	7113	15	0.9	28		1	134	14	347.813
ADS14SG	2008	33	6310	10	1.9	30		1	129	14	98.895
ADS14SG	2008	33	6310	15	2.1	30		1	129	14	109.305
ADS14SG	2008	33	6480	10	6.3	36		1	99	14	327.915
ADS14SG	2008	33	6135	10	14.0	30		9	99	14	23644.63
ADS14SG	2008	33	592	10	2.8	36		1	97	14	
ADS14SG	2008	33	6325	30	1.5	30		1	83	14	
ADS14SG	2008	32	332	70	4.3	30		1	76	14	
ADS14SG	2008	33	6320	10	12.0	30		1	76	14	
ADS14SG	2008	32	5081	10	3.4	30		1	74	14	
ADS14SG	2008	33	593	10	3.9	30		1		14	
ADS14SG	2008			10		30		1	74		888.8554
ADS14SG	2008	48	4126	10	4.1				74		1584.481
ADS14SG ADS14SG	2008	48	4120	10	4.1				74		1739.065
ADS14SG ADS14SG	2008	48	4131	10	1.4				74		541.0424
ADS14SG ADS14SG	2008	48	4134	30	3.1				74		1198.022
ADS14SG Total		needing							/4	14	70716.81
ADS14SG Total ADS14W	2008	needing of	only suri	ace upgra		26	2	A	051	1.4	
						26	3	4	851	14	
ADS14W	2008	48	4061	10	0.1	26	3				69.74108
A 1 15' 1 /141/					. 0.2	26	3	4	423	14	209.2232
ADS14W	2008	48	4061	20	0.3						
ADS14W	2008 2008	48	4070	10	1.1	26	3	4	423	14	767.1518
ADS14W ADS14W	2008 2008 2008	48 48	4070 4142	10 10	1.1 1.5	26 26	3	4 4	423 404	14 14	767.1518 1046.116
ADS14W ADS14W ADS14W	2008 2008 2008 2008	48 48 48	4070 4142 4146	10 10 30	1.1 1.5 1.0	26 26 26	3 3 3	4 4 4	423 404 404	14 14 14	767.1518 1046.116 697.4108
ADS14W ADS14W ADS14W ADS14W	2008 2008 2008 2008 2008	48 48 48 48	4070 4142 4146 4121	10 10 30 10	1.1 1.5 1.0 4.8	26 26 26 26	3 3 3 3	4 4 4 4	423 404 404 399	14 14 14 14	767.1518 1046.116 697.4108 3347.572
ADS14W ADS14W ADS14W ADS14W ADS14W	2008 2008 2008 2008 2008 2008	48 48 48 48 48	4070 4142 4146 4121 4140	10 10 30 10	1.1 1.5 1.0 4.8 2.1	26 26 26 26 26	3 3 3 3	4 4 4 4 4	423 404 404 399 399	14 14 14 14 14	767.1518 1046.116 697.4108 3347.572 1464.563
ADS14W ADS14W ADS14W ADS14W	2008 2008 2008 2008 2008	48 48 48 48	4070 4142 4146 4121	10 10 30 10	1.1 1.5 1.0 4.8	26 26 26 26	3 3 3 3	4 4 4 4	423 404 404 399	14 14 14 14 14	767.1518 1046.116 697.4108 3347.572
ADS14W ADS14W ADS14W ADS14W ADS14W	2008 2008 2008 2008 2008 2008	48 48 48 48 48	4070 4142 4146 4121 4140	10 10 30 10	1.1 1.5 1.0 4.8 2.1	26 26 26 26 26	3 3 3 3 3 3	4 4 4 4 4	423 404 404 399 399 327	14 14 14 14 14	767.1518 1046.116 697.4108 3347.572 1464.563 2301.455
ADS14W ADS14W ADS14W ADS14W ADS14W ADS14W	2008 2008 2008 2008 2008 2008 2008 2008	48 48 48 48 48 48	4070 4142 4146 4121 4140 4123	10 10 30 10 10	1.1 1.5 1.0 4.8 2.1 3.3	26 26 26 26 26 26	3 3 3 3 3 3 3	4 4 4 4 4 4 4	423 404 404 399 399 327 322	14 14 14 14 14 14	767.1518 1046.116 697.4108 3347.572 1464.563 2301.455 1115.857
ADS14W ADS14W ADS14W ADS14W ADS14W ADS14W ADS14W ADS14W	2008 2008 2008 2008 2008 2008 2008 2008	48 48 48 48 48 48 48	4070 4142 4146 4121 4140 4123 4062	10 10 30 10 10 10 20	1.1 1.5 1.0 4.8 2.1 3.3 1.6	26 26 26 26 26 26 26 26	3 3 3 3 3 3 3 3 3	4 4 4 4 4 4 4 5	423 404 404 399 399 327 322	14 14 14 14 14 14 14	767.1518 1046.116 697.4108 3347.572 1464.562 2301.455 1115.857 360.3605
ADS14W	2008 2008 2008 2008 2008 2008 2008 2008	48 48 48 48 48 48 48 48	4070 4142 4146 4121 4140 4123 4062 4062 4111	10 10 30 10 10 10 20 10	1.1 1.5 1.0 4.8 2.1 3.3 1.6 1.7	26 26 26 26 26 26 26 26 26	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4 4 4 4 4 4 4 5	423 404 404 399 399 327 322 322 319	14 14 14 14 14 14 14 14 14	767.1518 1046.116 697.4108 3347.572 1464.563 2301.455 1115.857 360.3609 1743.527
ADS14W	2008 2008 2008 2008 2008 2008 2008 2008	48 48 48 48 48 48 48 48 48	4070 4142 4146 4121 4140 4123 4062 4062 4111 4072	10 10 30 10 10 10 20 10 10	1.1 1.5 1.0 4.8 2.1 3.3 1.6 1.7 2.5	26 26 26 26 26 26 26 26 26 26 26 26	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4 4 4 4 4 4 4 5 5	423 404 404 399 399 327 322 322 319 315	14 14 14 14 14 14 14 14 14	767.1518 1046.116 697.4108 3347.572 1464.563 2301.455 1115.857 360.3605 1743.527 836.8929
ADS14W	2008 2008 2008 2008 2008 2008 2008 2008	48 48 48 48 48 48 48 48	4070 4142 4146 4121 4140 4123 4062 4062 4111	10 10 30 10 10 10 20 10	1.1 1.5 1.0 4.8 2.1 3.3 1.6 1.7 2.5	26 26 26 26 26 26 26 26 26 26 26	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4 4 4 4 4 4 5 5 4 4	423 404 404 399 399 327 322 322 319 315	14 14 14 14 14 14 14 14 14 14	767.1518 1046.116 697.4108 3347.572 1464.563 2301.455 1115.857 360.3605

-			NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	11	п
			ROUTE_				MSRIS_	MSRIS	MSRISD_	MSRISD_	
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH		SURFACE_ TYPE CODE		ADS_NUMBE R	
											BIA_CTI
ADS14W	2008	48	4109	10	0.4	26	3	4	285	14	
ADS14W	2008	36	542	10	0.3	24	3	4	270	14	
ADS14W Total		needing									19050.97
ADS14WG	2008	48	4062	25	2.7	26	3	4	218	14	
ADS14WG	2008	32	5112	10	0.5	22		3	159	14	203.3379
ADS14WG	2008	32	331	10	0.6	24		3	116	14	1059.354
ADS14WG	2008	32	331	30	0.1	24		3	116	14	176.5589
ADS14WG	2008	32	333	10	1.4	24		3	74	14	2471.825
ADS14WG	2008	36	203	50	0.4	18		3	74	14	. (
ADS14WG	2008	35	602	10	0.2	26	3	4	74	14	312.7307
ADS14WG	2008	35	806	10	0.1	24		4	74	14	156.3653
ADS14WG	2008	48	4093	10	0.7	28	3	4	74	14	148.3837
ADS14WG	2008	48	4093	20	0.5	28	3	4	74	14	105.9884
ADS14WG	2008	48	4093	22	4.4	28	3	4	74	14	932.6977
ADS14WG	2008	48	4093	24	2.1	26	3	4	74	14	445.1512
ADS14WG	2008	48	4093	26	0.8	26	3	4	74	14	169.5814
ADS14WG	2008	48	4093	28	0.2	26	3	4	74	14	
ADS14WG Total		(FADT 5									6796.706
ADS14SW	2008	32	5071	10	0.9	12		1	1228	14	
ADS14SW	2008	32	5071	20	1.2	16		1	1228	14	812.6326
ADS14SW	2008	34	7054	10	7.8	24		1	1044	14	
ADS14SW	2008	34	7037	20	0.8	22		1	979	14	
ADS14SW	2008	32	365	40	0.5	22		3	851	14	+
ADS14SW	2008	35	136	10	0.5	22		1	809	14	
ADS14SW	2008	33	6461	10	0.7	20		1	745		-
ADS14SW	2008	33	6461	30	2.7	24		1	745	14	
ADS14SW ADS14SW	2008	32	5065	10	6.0	22		1	551	14	
ADS14SW ADS14SW	2008	32	361	10	2.0	18		1	474		
ADS14SW ADS14SW	2008	32	5059	10	2.0	12			402	14	-
	2008		164	10	0.3	24		1			-
ADS14SW		33						3	383	14	
ADS14SW	2008	35	132	10	2.3	22		1	374	14	
ADS14SW	2008	33	6325	35	3.3	30		1	364	14	
ADS14SW	2008	33	6325	40	3.4	30		1	364		
ADS14SW	2008	33	6325	60	0.5	30		1	364	1	
ADS14SW	2008	33	23	10	5.3	24		1	350	14	
ADS14SW	2008	35	136	30	2.4	22		1	350	14	
ADS14SW	2008	35	134	10	2.7	20		1	342	14	
ADS14SW	2008	32	365	10	0.3	22		1	321	14	
ADS14SW	2008	32	365	20	0.2	16		1	321		135.4388
ADS14SW	2008	32	365	30		20		1	321		474.0357
ADS14SW	2008	36	96	10	14.7	16		1	291		
ADS14SW	2008	36	203	20	2.8	20		1	278		5813.663
ADS14SW	2008	36	203	40	2.8	18		1	278		5813.663
ADS14SW	2008	36	26	10	2.8	20		1	276		5813.663
ADS14SW	2008	32	5037	10	0.2	18		1	257		415.2616
ADS14SW	2008	32	5037	30	0.5	12		1	257	14	
ADS14SW	2008	32	5037	50	1.3	12		1	257	14	
ADS14SW	2008	34	541	20	0.3	24		1	257	14	
ADS14SW Total		needing			72.0						82582.36
ADS14SWG	2008	34	7030	10	3.1	18		1	245	14	1198.022
ADS14SWG	2008	32	193	10	1.9	20		1	244	14	734.2718
ADS14SWG	2008	32	351	10	1.5	20		1	226	14	2533.353
ADS14SWG	2008	32	351	15	1.9	20		1	226	14	3208.914
ADS14SWG	2008	32	5045	10	10.4	14		1	209		17564.58
ADS14SWG	2008	33	23	15	2.5	24		1	206	14	4222.255
ADS14SWG	2008	35	135	10	0.2	24		1	202		
ADS14SWG	2008	35	135	30	0.7	24		1	202		
ADS14SWG	2008	32	342	20	1.2	22		1	199		463.7506
ADS14SWG	2008	33	6262	10	2.0	26		1	195		
ADS14SWG	2008	34	7124	10	6.4	20		1	193		2473.337
	2000	34	7004	10	17.6	20		1	189		6801.676

		1	NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	Г	11
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS_ SHOULDER_ TYPE_CODE	MSRIS_ SURFACE_ TYPE CODE		MSRISD_ ADS_NUMBE R	MSRISD_ BIA_CTI
							TITE_CODE				ļ
ADS14SWG	2008	34	7004	15	4.8	18		1	189	14	
ADS14SWG	2008	33	6260	40	3.0	18		1	186	14	
ADS14SWG	2008	33	6260	50	6.8	20		1	186	14	
ADS14SWG	2008	35	8069	10	3.2	22		1	186	14	
ADS14SWG	2008	35	8069	20	1.0	22		1	186	14	
ADS14SWG	2008	36	126	10	1.2	16		9	186	14	
ADS14SWG	2008	34	492	10	2.9	18		1	181	14	1
ADS14SWG	2008	32	363	10	1.6	18		1	178	14	
ADS14SWG	2008	34	7005	10	1.6	19		1	178	14	
ADS14SWG	2008	36	372	10	2.2	18		1	177	14	+
ADS14SWG	2008	32	5027	10	0.8	24		1	175	14	
ADS14SWG	2008	32	5027	30	0.4	24		1	175	14	
ADS14SWG	2008	32	5070	20	2.2	24		1	175	14	
ADS14SWG	2008	33	6312	10	5.7	22		1	169	14	
ADS14SWG	2008	33	6312	30	1.4	22		1	169	14	
ADS14SWG	2008	32	5063	10	3.5	24		1	166	14	
ADS14SWG	2008	34	475	10	2.7	18		1	165	14	
ADS14SWG	2008	34	475	20	6.2	20		1	165	14	
ADS14SWG	2008	36	124	10	3.3	18		1	163	14	
ADS14SWG	2008	36	124	20	6.9	18		1	163	14	
ADS14SWG	2008	34	7101	10	2.7	20		1	160	14	
ADS14SWG	2008	34	7101	20	4.6	20		9	160	14	
ADS14SWG	2008	34	7122	10	2.2	20		1	156	14	
ADS14SWG	2008	36	154	10	6.3	16		1	156	14	
ADS14SWG	2008	36	371	10	4.0	18		1	156	14	
ADS14SWG	2008	32	354	10	0.7	16		1	150	14	
ADS14SWG	2008	32	354	30	3.8	16		1	150	14	
ADS14SWG	2008	32	5036	10	1.9	14		1	143	14	
ADS14SWG	2008	34	483	10	5.1	22		1	143	14	
ADS14SWG	2008	34	473	10	0.9	16		1	140	14	
ADS14SWG	2008	34	473	20	5.5	16		1	140	14	
ADS14SWG	2008	34	7133	10	4.3	18		1	140	14	
ADS14SWG	2008	34	7113	10	3.3	22		1	134	14	
ADS14SWG	2008	34	7113	20	4.3	21		1	134	14	+
ADS14SWG	2008	35	131	20	3.2	22		1	132	14	
ADS14SWG	2008	34	7032	10	2.9	16		1	128	14	-
ADS14SWG	2008	32	5065	15	1.3	22		1	122	14	
ADS14SWG	2008	32	5092	10	1.9	18		1	119	14	
ADS14SWG	2008	32	5092	30	0.9	18		1		14	
ADS14SWG	2008	32	335	10		24		1	117		4728.926
ADS14SWG	2008	32	335	30		24		1	117		506.6706
ADS14SWG	2008	36	9451	10	0.9	18		1	117		1520.012
ADS14SWG	2008	36	9451	20	0.8	18		1	117		309.1671
ADS14SWG	2008	36	9856	10	3.1	18		9	117		5235.597
ADS14SWG	2008	32	5089	10	2.9	16		1	113	14	
ADS14SWG	2008	32	5089	20	4.2	16		1	113	14	
ADS14SWG	2008	33	6270	10	3.2	20		1	113		5404.487
ADS14SWG	2008	33	6270	20	5.6	20		1	113		9457.852
ADS14SWG	2008	32	5087	10	0.7	18		1	110	14	1 1 1 1 1
ADS14SWG	2008	32	5087	30	1.2	18		1	110	14	
ADS14SWG	2008	32	5087	50	2.1	18		1		14	
ADS14SWG	2008	32	5034	10	4.3	22		1	108	14	
ADS14SWG	2008	32	5034	30	1.1	18		1	108		1857.792
ADS14SWG	2008	32	5034	50	1.0	18		1	108		1688.902
ADS14SWG	2008	32	5034	60	5.9	12		1	108	14	
ADS14SWG	2008	33	6420	10	8.0	26		1	105		13511.22
ADS14SWG	2008	33	6240	20	4.2	18		1	104	14	
ADS14SWG	2008	34	7126	10	2.7	18		1	104		1043.439
ADS14SWG	2008	34	7053	10	1.9	20		1	102	14	
ADS14SWG	2008	32	5082	10	5.3	21		1	101		2048.232
ADS14SWG	2008	32	5082	15	8.1	21		1	101	14	3130.317

	11 1		NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	11	1
			ROUTE_				MSRIS	MSRIS	MSRISD_	MSRISD_	
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	SHOULDER_ TYPE CODE	SURFACE_ TYPE CODE		ADS_NUMBE R	MSRISD_ BIA_CTI
	<u> </u>						TTTE_CODE				<u> </u>
ADS14SWG	2008	32	5204	10	2.0	12		1	101	14	
ADS14SWG	2008 2008	32 35	5206 8018	10	3.6 2.8	10		1	101	14	
ADS14SWG						20				+	
ADS14SWG	2008	35	8018	30	1.0	20		1	101	14	
ADS14SWG	2008	33	6110	30	7.0	22		1	99		
ADS14SWG	2008	33	6132	10	3.8	22		1	99		
ADS14SWG	2008	33	6140	20	14.9	10		1	99		
ADS14SWG	2008	34	7017	10	2.2	22		1	99		
ADS14SWG	2008	34	7029	10	1.0	20		1	99		
ADS14SWG ADS14SWG	2008	33	6130	20 30	2.1	18 18		1	98		<b>+</b>
ADS14SWG ADS14SWG	2008 2008	33	6130 6130	40	3.4	22		1	98		
ADS14SWG ADS14SWG	2008	33	6011	10	1.7	26		1	98		<b>+</b>
ADS14SWG ADS14SWG	2008	33	6011	20	1.7	20		1	97		
ADS14SWG ADS14SWG	2008	33	6131	10	4.8	22		1	97		
ADS14SWG ADS14SWG	2008	33	489	10					97		
		-			1.6	18		1			
ADS14SWG	2008 2008	36 36	123 691	30 10	2.5	14		1	97 97		
ADS14SWG ADS14SWG	2008	36	9751	20	0.6	18		1	97		
ADS14SWG ADS14SWG	2008	36	9751	10	2.0	14		1	97		
	2008	36				14			97		
ADS14SWG		33	9760	20 10	1.6 8.7			1	97		
ADS14SWG	2008		6211			18		1			
ADS14SWG	2008	34	7060	10	4.1	20		1	95		
ADS14SWG	2008	34	476	10	6.9	16		1	95		
ADS14SWG	2008 2008	34	491 7013	10	3.3	18		1	95 95		
ADS14SWG ADS14SWG	2008	34	7013	10	1.1	18		1	95		
ADS14SWG ADS14SWG	2008	32	5047	10		24		1	93		
			5047		3.3				94		
ADS14SWG	2008 2008	32		20 10	5.3 9.9	18 18		1	94		
ADS14SWG	2008	35 34	8032 98	10	0.9	20		1	92	+	
ADS14SWG ADS14SWG	2008	33	6240	10	1.2	14		1	89	14	<b>+</b>
ADS14SWG ADS14SWG	2008	35	8009	10	5.6	22			88		<b>+</b>
ADS14SWG ADS14SWG	2008	36	156	10	1.3	18		1	86		
ADS14SWG ADS14SWG	2008	36	156	20	2.4	16		1	86	<b>+</b>	
ADS14SWG	2008	35	8033	10	2.5	22		1	79		
ADS14SWG ADS14SWG	2008	35	8033	30	4.0	22		1	79		
ADS14SWG	2008	34	112	10	0.8	20		1	77		
ADS14SWG	2008	32	5042	10	3.5	14		1	76		
ADS14SWG	2008	32	5043	10		12		1	76		11315.64
ADS14SWG	2008	32	5043	30		12		1	76		4728.926
ADS14SWG	2008	32	121	10		14		1	74		
ADS14SWG	2008	32	336	10	1.9	18		1	74		3208.914
ADS14SWG	2008	32	546	30		16		1	74		734.2718
ADS14SWG	2008	32	5025	10		12		1	74		3884.475
ADS14SWG	2008	32	5026	20		12		1	74		579.6883
ADS14SWG	2008	32	5028	10	0.8	18		1	74		1351.122
ADS14SWG	2008	32	5029	10	2.1	16		1	74		
ADS14SWG	2008	32	5030	10	13.7	18		1	74		<b>+</b>
ADS14SWG	2008	32	5037	55	2.3	12		1	74		
ADS14SWG	2008	32	5037	70	2.7	12		1	74		4560.036
ADS14SWG	2008	32	5038	10	0.9	13		1	74		
ADS14SWG	2008	32	5038	30	0.6	13		1	74		231.8753
ADS14SWG	2008	32	5039	10	2.9	16		1	74		4897.816
ADS14SWG	2008	32	5045	30	0.3	14		1	74		
ADS14SWG	2008	32	5059	30	0.8	12		1	74		
ADS14SWG	2008	32	5062	10	4.1	12		1	74		
ADS14SWG	2008	32	5063	15	3.4	24		1	74		
ADS14SWG	2008	32	5063	20	3.8	20		1	74		
ADS14SWG	2008	32	5063	25	5.4	20		1	74		
ADS14SWG	2008	32	5063	30		18		1	74		

	11 1	, i	NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	1	n
			ROUTE_				MSRIS_	MSRIS_	MSRISD_	MSRISD_	
NIEED 1	FISCAL_	AGENCY_	NUMBE	SECTION_	SECTION_ LENGTH	ROADWAY_	SHOULDER_ TYPE CODE			ADS_NUMBE	
NEED 1	YEAR	CODE	R	NUMBER		WIDTH	TYPE_CODE	TYPE_CODE		R	BIA_CTI
ADS14SWG	2008	32	5072	10	2.5	22		1	74	14	966.1471
ADS14SWG	2008	32	5072	20	1.1	10		1	74	14	425.1047
ADS14SWG	2008	32	5072	30	1.1	15		1	74	14	425.1047
ADS14SWG	2008	32	5081	20	3.5	18		1	74	14	1352.606
ADS14SWG	2008	32	5081	25	11.1	18		1	74	14	4289.693
ADS14SWG	2008	32	5203	10	1.7	12		1	74	14	656.98
ADS14SWG	2008	32	5203	30	1.8	12		1	74	14	695.6259
ADS14SWG	2008	33	211	10	6.2	22		1	74	14	10471.19
ADS14SWG	2008	33	595	10	3.9	24		1	74	14	6586.718
ADS14SWG	2008	33	2121	10	2.6	20	1	1	74	14	4391.146
ADS14SWG	2008	33	6011	25	4.1	22		1	74	14	6924.499
ADS14SWG	2008	33	6120	20	8.6	22		1	74	14	14524.56
ADS14SWG	2008	33	6133	10	10.9	18		1	74	14	
ADS14SWG	2008	33	6133	20	11.8	20		1	74	14	
ADS14SWG	2008	33	6134	10	5.7	12		1	74	14	1
ADS14SWG	2008	33	6134	20	7.1	18		1	74	14	-
ADS14SWG	2008	33	6134	30	7.5	22		1	74	14	-
ADS14SWG ADS14SWG	2008	33	6135	20	2.8	24		1	74	14	1
ADS14SWG ADS14SWG	2008	33	6210	10	12.0	24		1	74	14	1
ADS14SWG ADS14SWG	2008	33	6210	20	0.6	24		1	74	14	
	2008				0.0	24					1
ADS14SWG		33	6210	30				1	74	14	
ADS14SWG	2008	33	6210	40	0.2	24		1	74	14	
ADS14SWG	2008	33	6230	10	14.3	22		1	74	14	
ADS14SWG	2008	33	6231	10	9.5	22		1	74	14	
ADS14SWG	2008	33	6231	20	12.4	22		1	74	14	
ADS14SWG	2008	33	6310	40	12.3	14		1	74	14	
ADS14SWG	2008	33	6310	50	10.4	17		1	74	14	
ADS14SWG	2008	33	6310	55	10.2	17		1	74	14	
ADS14SWG	2008	33	6310	60	8.1	20		1	74	14	13680.11
ADS14SWG	2008	33	6310	65	1.7	20		1	74	14	2871.134
ADS14SWG	2008	33	6315	10	4.1	14		1	74	14	213.405
ADS14SWG	2008	33	6321	10	8.2	20		1	74	14	13849
ADS14SWG	2008	33	6322	10	4.6	24		1	74	14	7768.95
ADS14SWG	2008	33	6326	20	1.0	20	1	1	74	14	1688.902
ADS14SWG	2008	33	6326	30	3.3	20	1	1	74	14	5573.377
ADS14SWG	2008	33	6430	10	5.7	24		1	74	14	9626.742
ADS14SWG	2008	33	6462	10	3.9	20		1	74	14	6586.718
ADS14SWG	2008	33	6463	10	5.5	20		1	74	14	9288.962
ADS14SWG	2008	33	6465	10	8.6	20		1	74	14	14524.56
ADS14SWG	2008	33	6465	20	1.0	24		1	74	14	1688.902
ADS14SWG	2008	33	6466	10	6.3	20		1	74		10640.08
ADS14SWG	2008	33	6471	10	3.4	20		1	74	14	176.97
ADS14SWG	2008	33	6487	10	10.8	20		1	74		18240.14
ADS14SWG	2008	33	6490	10	6.8	21		1	74		11484.53
ADS14SWG	2008	33	6491	10	8.0	16		1	74		13511.22
ADS14SWG	2008	33	6520	10	4.4	22		1	74	14	1
ADS14SWG	2008	34	7033	10	1.9	16		1	74		734.2718
ADS14SWG	2008	34	7039	10	3.6	21		1	74		
ADS14SWG ADS14SWG	2008	34	7041	10	2.0	18		1	74	14	
ADS14SWG	2008	34	7041	10	4.1	18			74	14	
ADS14SWG ADS14SWG	2008	34	7042	10	1.0	20		1	74	14	+
											1
ADS14SWG	2008	34	7071	20	0.5	20		1	74		
ADS14SWG	2008	34	7074	10	0.8	18		1	74	14	
ADS14SWG	2008	34	7123	10	1.9	18		1	74		734.2718
ADS14SWG	2008	34	91	10	9.0	18		1	74	14	
ADS14SWG	2008	34	93	10	4.8	18		1	74		1855.002
ADS14SWG	2008	34	111	10	1.9	20		1	74	14	
ADS14SWG	2008	34	491	20	1.0	18		1	74	14	386.4589
ADS14SWG	2008	34	7008	10	2.3	20		1	74	14	888.8554
ADS14SWG	2008	34	7014	10	2.9	18		1	74	14	1120.731
ADS14SWG	2008	34	7043	10	0.4	20		1	74		154.5835

	11 1		NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	11	n
			ROUTE_				MSRIS	MSRIS	MSRISD_	MSRISD_	
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	SHOULDER_ TYPE CODE	SURFACE_ TYPE CODE		ADS_NUMBE R	MSRISD_ BIA CTI
	<u> </u>						TYPE_CODE				
ADS14SWG	2008	34	7043	13	4.5	20		1	74		1830.041
ADS14SWG	2008	34	7043	16	2.5	20		1	74		
ADS14SWG	2008	34	7043	50	3.4	20		1	74	14	
ADS14SWG	2008	34	7129	10	2.5	22		1	74		
ADS14SWG	2008	34	7134	10	2.0	20		1	74		772.9177
ADS14SWG	2008	35	641	10	2.7	20		1	74	14	4560.036
ADS14SWG	2008	35	672	10	2.1	20		1	74	14	3546.695
ADS14SWG	2008	35	672	20	3.3	20		1	74	14	5573.377
ADS14SWG	2008	35	8016	10	6.3	20		1	74	14	10640.08
ADS14SWG	2008	36	111	10	1.0	18		1	74	14	386.4589
ADS14SWG	2008	36	9452	20	2.0	18		1	74	14	772.9177
ADS14SWG	2008	33	201	10	12.4	20		9	74	14	20942.39
ADS14SWG	2008	33	6306	10	3.3	8		9	74	14	171.765
ADS14SWG	2008	34	542	10	0.8	18		9	74	14	309.1671
ADS14SWG	2008	34	561	10	3.6	20		9	74	14	1391.252
ADS14SWG	2008	34	7131	10	0.2	18		9	74	14	77.29177
ADS14SWG Total	ADS 14	(FADT 5	60-400) r	needing su	806.2						933346.9
ADS15SW	2008	34	7037	10	1.8	18		1	979	15	
ADS15SW	2008	33	164	5	0.1	24		3	383	15	
ADS15SW	2008	36	26	15	6.5	20		1	276	15	7901.075
ADS15SW Total	ADS 15	needing	surface u	ingrade ai	8.4						9184.22
ADS15SWG	2008	36	31	40	0.8	18		1	236	15	
ADS15SWG	2008	36	31	50	2.5	20		1	236		
ADS15SWG	2008	32	342	10	6.4	22		1	199	15	
ADS15SWG	2008	36	9604	10	0.1	18		1	198		
ADS15SWG	2008	36	9604	15	5.5	18		1	198		
ADS15SWG	2008	33	6260	20	1.0	20		1	186		
ADS15SWG	2008	33	6260	30	0.2	18		1	186		
ADS15SWG	2008	36	126	60	7.9	18		1	186		
ADS15SWG ADS15SWG	2008	36	126	20	4.3	18		9	186		
ADS15SWG ADS15SWG	2008	36	126	30	5.0	18		9	186		
ADS15SWG ADS15SWG	2008	36	126	40	5.5	18		9	186		
ADS15SWG ADS15SWG	2008	36	31	55	1.1	18		1	163		
ADS15SWG ADS15SWG	2008	36	31	60	6.0	18		1	163	15	
ADS15SWG ADS15SWG	2008	34	493	10	5.1	16		1	140	15	
ADS15SWG ADS15SWG	2008	34	50	10	7.0	20		1	134		
ADS15SWG ADS15SWG	2008	33	6310	20	2.6	14		1	129	15	
ADS15SWG ADS15SWG	2008	32	5034	20	1.8	12		1	108	15	
ADS15SWG ADS15SWG	2008	32	5034	40	3.3	18		1	108		
ADS15SWG ADS15SWG	2008	-		-							
		33	6110	10	7.0	12		1	99		7836.85 2351.055
ADS15SWG	2008		6140	_		12		1			
ADS15SWG	2008	33	6130	10	4.1			1	98	_	
ADS15SWG ADS15SWG	2008 2008	33	6130	50	2.0	22		1	98		
	2008	34	98 8028	20 10	3.1 8.7	20		1	91		1414.065
ADS15SWG								1	79		9815.775
ADS15SWG	2008	35	8033	40	5.7	8		9		_	
ADS15SWG	2008	32	336	20	0.4	12		1	74		
ADS15SWG	2008	32	336	50	8.9	12		1	74		
ADS15SWG	2008	32	681	10	10.0	22		1	74		
ADS15SWG	2008	32	5026	10	2.8	12		1	74		
ADS15SWG	2008	33	6120	10	3.0	22		1	74		
ADS15SWG	2008	33	6150	10	4.6	20		1	74		
ADS15SWG	2008	33	6150	20	13.7	20		1	74		
ADS15SWG	2008	34	7076	10	4.8	18		1	74	_	
ADS15SWG	2008	36	203	70	0.6	18		3	74		
ADS15SWG	2008	32	336	40	2.5	12		9	74		
ADS15SWG	2008	32	5040	15	15.2	12		9	74		
ADS15SWG	2008	33	6305	10	1.5	8		9	74		
ADS15SWG	2008	33	6305	20	3.2	8		9	74	15	210.08
ADS15SWG	2008	33	6325	10	4.6	8		9	74	15	301.99
ADS15SWG	2008	33	6325	20	12.9	8		9	74	15	846.885

h	11 1		NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	1	TI .
		. any ar	ROUTE_	an amyos:	an amron		MSRIS_	MSRIS_	MSRISD_	MSRISD_	ranzan
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	SHOULDER_ TYPE CODE	SURFACE_ TYPE CODE		ADS_NUMBE R	MSRISD_ BIA_CTI
ADS15SWG	2008	36	126	50	3.5	18	=	9	74	15	ļ
ADS15SWG ADS15SWG	2008	36	203	80	4.8	18		9	74	15	
ADS15SWG ADS15SWG	2008	36	203	90	6.4	21		9	74	15	
ADS15SWG Total		(FADT 5			202.2	21		,	7-1	13	154645
ADS16WG	2008	32	500	10	0.1	24		4	74	16	
ADS16WG	2008	32	501	10	0.3	24		4	74	16	
ADS16WG	2008	32	510	10	0.2	24	3	4	74	16	61.4
ADS16WG	2008	32	515	10	0.3	24	3	4	74	16	155.304
ADS16WG Total	ADS 16	(FADT 5	0-400) n	needing or	0.9						423.776
ADS16SW	2008	34	1042	32	0.5	40	4	4	6418	16	295
ADS16SW	2008	34	1042	34	0.4	40	4	4	6418	16	
ADS16SW	2008	34	1042	36	0.1	40	4	4	6418	16	
ADS16SW	2008	34	1042	40	0.1	40	4	4	6418	16	
ADS16SW	2008	34	1048	20	0.2	32	3	4	5643	16	
ADS16SW	2008	34	1042	10	0.4	36	3	4	3392	16	
ADS16SW	2008	34	1042	15	0.2	28	3	4	3392	16	
ADS16SW	2008 2008	34	1042 1042	20 25	0.4	40	4	4	3392 3392	16 16	
ADS16SW ADS16SW	2008	34	1042	30	0.2	40	4	4	3392	16	
ADS16SW Total		needing	_			40	4	4	3392	10	1534
ADS18	2008	33	608	pgrade ar	0.1	34	4	5	8563	18	
ADS18	2008	33	608	10	1.2	32	3	5	8563	18	
ADS18	2008	33	608	15	0.1	32	3	5	8563	18	
ADS18	2008	33	608	20	1.3	32	3		8563	18	
ADS18	2008	34	1040	25	0.4	30	4	5	3359	18	171.2
ADS18	2008	34	1040	30	0.5	30	4	5	3359	18	214
ADS18	2008	34	1043	10	0.3	34	4	5	1241	18	128.4
ADS18	2008	32	530	10	0.1	28		1	37	18	29.26
ADS18	2008	32	530	20	0.3	21		1	37	18	
ADS18	2008	32	545	20	0.1	25		1	37	18	
ADS18	2008	32	545	30	0.2	25		1	37	18	
ADS18	2008	32	545	40	0.6	25		1	37	18	
ADS18	2008	32	570	30	0.6	24		1	37	18	
ADS18 ADS18	2008 2008	33 35	1017 300	42 10	0.3	24 26		1	37 37	18 18	
ADS18	2008	35	301	10	0.1	24		1	37	18	
ADS18 ADS18	2008	35	810	10	0.1	24		1	37	18	
ADS18	2008	35	810	20	0.1	24		1	37	18	
ADS18	2008	36	133	10	0.1	24		1	37		110.8047
ADS18	2008	32	531	50	0.1	22		3	37		
ADS18	2008	32	503	10	0.3	24		4	37	18	362.3841
ADS18	2008	32	509	10	0.6	22		4	37	18	184.2
ADS18	2008	32	509	40	0.1	24		4	37	18	30.7
ADS18	2008	32	509	50	0.7	22		4	37	18	
ADS18	2008	32	509	60	0.3	24		4	37	18	
ADS18	2008	32	509	70	0.2	30		4	37	18	
ADS18	2008	32	512	10	1.0	24		4	37	18	
ADS18	2008	32	512	20	0.1	24		4	37	18	
ADS18	2008	32	531	20	0.4	22		4	37	18	
ADS18 ADS18	2008 2008	32 33	545 601	10 10	0.3	25 24		4	37 37	18 18	
ADS18 ADS18	2008	33	602	10	0.1	26		4	37	18	
ADS18	2008	33	602	20	2.2	24		4	37	18	
ADS18 ADS18	2008	33	603	10	0.6	26		4	37	18	
ADS18	2008	33	604	40	0.0	24		4	37	18	
ADS18	2008	33	605	30	0.1	24		4	37	18	
ADS18	2008	33	610	10	0.3	38	4	4	37	18	
ADS18	2008	33	612	10	0.3	38	4	4	37	18	
ADS18	2008	33	613	10	0.3	38	4	4	37	18	
ADS18	2008	33	617	10	0.2	38	4	4	37	18	
ADS18	2008	33	618	10	0.2	38	4	4	37	18	241.5894

	11 1		NEED	1: HIGE	IWATG	EOMETR	IC DESIG	N DEFICI	ENCIES	1	<del>n</del>
			ROUTE_				MSRIS	MSRIS	MSRISD_	MSRISD_	
NIEED 1	FISCAL_	AGENCY_	NUMBE	SECTION_ NUMBER		ROADWAY_				ADS_NUMBE	
NEED 1	YEAR	CODE	R		LENGTH	WIDTH	TYPE_CODE	TYPE_CODE		R	BIA_CTI
ADS18	2008	33	1011	10	0.1	33	4	4	37	18	
ADS18	2008	33	1011	20	0.7	34	4	4	37	18	
ADS18	2008	33	1015	10	0.8	38	4	4	37	18	966.3576
ADS18	2008	33	1017	41	0.3	22		4	37	18	362.3841
ADS18	2008	33	6001	10	0.1	38	4	4	37	18	120.7947
ADS18	2008	33	6141	10	0.2	38	4	4	37	18	241.5894
ADS18	2008	34	716	10	0.5	24		4	37	18	153.5
ADS18	2008	34	701	10	1.2	26		4	37	18	368.4
ADS18	2008	34	705	10	0.5	28	3	4	37	18	153.5
ADS18	2008	34	705	30	0.4	28	3			18	+
ADS18	2008	35	101	10	0.2	24		4	37	18	
ADS18	2008	35	104	10	0.2	24		4		18	+
ADS18	2008	35	105	10	0.2	24		4	37	18	
ADS18	2008		106	10	0.2	26	3	4		18	
ADS18	2008	35	200	10	0.1	26	3	4	37	18	
ADS18	2008	35	201	10	0.1	26		4		18	
ADS18	2008	35	202	10	0.1	26	3	4	37	18	
ADS18	2008	35	202	10	0.1	34	3	4	37	18	
	2008	35	205	10		24			37		
ADS18 ADS18	2008	35	205	10	0.1	26	3	4	37	18 18	
							3				
ADS18	2008	35	302	10	0.2	26		4	37	18	
ADS18	2008	35	400	10	0.1	28	-	4	37	18	
ADS18	2008	35	403	10	0.1	28	3		37	18	
ADS18	2008	35	405	10	0.1	24		4		18	
ADS18	2008	35	406	10	0.1	24	3	4	37	18	
ADS18	2008	35	601	10	0.1	24		4	37	18	
ADS18	2008	35	603	10	0.2	26	3	4	37	18	
ADS18	2008	35	800	10	0.1	24	3	4	37	18	120.7947
ADS18	2008	33	606	10	0.2	28	3	5	37	18	241.5894
ADS18	2008	33	1015	4	0.4	34	3	5	37	18	483.1788
ADS18	2008	33	1015	5	0.4	34	3	5	37	18	483.1788
ADS18	2008	35	100	10	0.1	42	4	5	37	18	120.7947
ADS18 Total			Ī		24.0						17855.72
ADS18S	2008	33	608	50	0.4	28	3	4	8563	18	713.178
ADS18S	2008	34	1044	10	0.1	40	4	4	5643	18	59
ADS18S	2008	34	1046	10	0.2	26	4	4	5643	18	118
ADS18S	2008	34	1047	20	0.3	30	3	4	5643	18	177
ADS18S	2008	34	1048	10	0.6	43	4	4	5643	18	
ADS18S	2008	33	106	10	0.4	24		4	4805	18	713.178
ADS18S	2008	33	600	30		38	4	4	4056	18	891.4725
ADS18S	2008		600	40		38	4			18	
ADS18S	2008		614	30	0.4	38	4	4	3784	18	
ADS18S	2008	33	600	10	0.1	35	-	4		18	+
ADS18S	2008		600	20	0.1	38	4	4	2320	18	
ADS18S	2008		1017	45	0.2	24	7	1	1981	18	
ADS18S	2008		600	5	0.3	34	3	4	1972	18	+
ADS18S	2008	33	609	10	0.2	36	3	1	1650	18	
ADS18S	2008	33	609	20	0.3	36		1	1650	18	+
ADS18S	2008		609	20	0.2	36		1	1650	18	
	2008	33	609	24	0.4	36			1650		
ADS18S	2008	33	609	26		36		1		18	
ADS18S					0.2		2	4		18	
ADS18S	2008		597	10	0.1	28	3			18	
ADS18S	2008		597	20	0.2	28	3			18	
ADS18S	2008	35	597	30	0.1	28	3	4	1642		178.2945
ADS18S	2008	33	614	5	0.2	34	3			18	
ADS18S	2008	33	614	10	0.1	38	4		999	18	
ADS18S	2008		614	20	0.4	38	4	4	999	18	
ADS18S	2008	33	6003	10	0.1	38	4	4	958	18	178.2945
ADS18S	2008	36	100	50	0.4	24		4	799	18	713.178
ADS18S	2008	33	1017	40	0.3	24		1	777	18	
1100100		,				1	1				

			NEED	1: HIGE	IWATG	EOMETR	IC DESIG	N DEFICI	ENCIES	II .	11
			ROUTE_				MSRIS	MSRIS	MSRISD_	MSRISD_	
NEED 1	FISCAL_	AGENCY_	NUMBE	SECTION_		ROADWAY_ WIDTH				ADS_NUMBE	
NEED 1	YEAR	CODE	R	NUMBER	LENGTH		TYPE_CODE	TYPE_CODE	T_COUNT	R	BIA_CTI
ADS18S	2008	33	616	10	0.5	38	4	4	677	18	
ADS18S	2008	33	616	20	0.1	34	4	4	677	18	178.2945
ADS18S	2008	33	615	10	0.1	38	4	4	578	18	178.2945
ADS18S	2008	33	6002	10	0.1	38	4	4	459	18	178.2945
ADS18S Total	ADS 18	needing of	only surf	ace upgra	8.8						13675.3
ADS18WE	2008	32	570	10	0.4	16		1	37	18	117.04
ADS18WE Total	ADS 18	needing of	only road	dway wide	0.4						117.04
ADS18W	2008	32	531	40	0.1	12		3	37	18	30.7
ADS18W	2008	32	569	10	1.8	20		3	37	18	552.6
ADS18W	2008	0	2302	11	0.1	20	3	4	37	18	120.7947
ADS18W	2008	0	2302	12	0.4	20	3	4	37	18	
ADS18W	2008	0	2302	13	0.1	20	3	4	37	18	120.7947
ADS18W	2008	0	2302	14	0.2	20	3	4	37	18	
ADS18W	2008	0	2302	21	0.1	20	3	4	37	18	
ADS18W	2008	0	2302	31	0.1	20	3	4	37	18	
ADS18W	2008	0	2303	41	0.3	18	3	4	37	18	
ADS18W	2008	0	2303	43	0.3	18	3	4	37	18	
ADS18W	2008	0	2303	51	0.1	18	3	4	37	18	
ADS18W ADS18W	2008	0	2303	72	0.2	18	3	4	37	18	59.94
ADS18W	2008	0	2303	81	0.2	18	3	4	37	18	29.97
ADS18W	2008	0	2303	22	0.1	18					
							3	4	37	18	
ADS18W	2008	0	2304	31	0.2	18	3	4	37	18	
ADS18W	2008	0	2304	41	0.1	18	3	4	37	18	
ADS18W	2008	0	2304	52	0.1	18	3		37	18	
ADS18W	2008	0	2304	62	0.3	18	3	4	37	18	
ADS18W	2008	0	2305	21	0.1	20	3	4	37	18	
ADS18W	2008	0	2305	62	0.1	20	3	4	37	18	
ADS18W	2008	0	2305	71	0.1	20	3	4	37	18	
ADS18W	2008	0	2305	82	0.2	20	3	4	37	18	
ADS18W	2008	0	2306	31	0.4	20	3	4	37	18	
ADS18W	2008	0	2306	41	0.1	20	3	4	37	18	
ADS18W	2008	0	2306	51	0.3	20	3	4	37	18	
ADS18W	2008	0	2306	52	0.2	20	3	4	37	18	
ADS18W	2008	0	2306	61	0.2	20	3	4	37	18	241.5894
ADS18W	2008	0	2309	11	0.3	20	3	4	37	18	362.3841
ADS18W	2008	0	2309	21	0.5	20	3	4	37	18	603.9735
ADS18W	2008	0	2309	31	0.1	20	3	4	37	18	120.7947
ADS18W	2008	0	2309	41	0.4	20	3	4	37	18	483.1788
ADS18W	2008	0	2311	41	0.3	18	3	4	37	18	89.91
ADS18W	2008	0	2311	52	0.2	18	3	4	37	18	59.94
ADS18W	2008	0	2311	71	0.4	18	3	4	37	18	119.88
ADS18W	2008	0	2311	81	0.2	18			37	18	
ADS18W	2008	0	2311	91	0.1	18	3	4	37	18	29.97
ADS18W	2008	0	2311	101	0.1	18	3	4	37		
ADS18W	2008	0	2311	122	0.1	18	3		37		
ADS18W	2008	0	2311	141	0.1	18	3	4	37		
ADS18W	2008	0	2311	162	0.3	18	3		37		
ADS18W	2008	0	2311	181	0.3	18	3		37		
ADS18W	2008	0	2311	182	0.2	18	3		37		
ADS18W	2008	0	2311	191	0.1	18	3		37		
ADS18W	2008	0	2311	202	0.1	18	3		37	18	
ADS18W	2008	0	2311	204	0.3	18	3		37		
ADS18W	2008	0	2311	212	0.1	18			37		
	2008			212	0.3	18	3	4	37		
ADS18W		0	2311								
ADS18W	2008	0	2311	216	0.1	18		4	37		
ADS18W	2008	0	2311	218	0.1	18		4	37		
ADS18W	2008	0	2311	221	0.1	18			37		
ADS18W	2008	0	2311	222	0.2	18	3	4	37		
ADS18W	2008	0	2311	231	0.2	18			37		
ADS18W	2008	0	2311	241	0.1	18			37		
ADS18W	2008	0	2311	252	0.2	18	3	4	37	18	59.94

<b> </b>	11	1	NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	11	п
NEED 1		AGENCY_	ROUTE_ NUMBE R		SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS_ SHOULDER_ TYPE CODE	MSRIS SURFACE_ TYPE_CODE	MSRISD_ FUTURE_AD T_COUNT	MSRISD_ ADS_NUMBE R	MSRISD_ BIA CTI
ADS18W	2008	0	2311	272	0.2	18	3				
ADS18W ADS18W	2008	0	2311	281	0.2	18	3	4			
ADS18W ADS18W	2008	0	2311	283	0.2	18	3	4			
ADS18W ADS18W	2008	0	2311	292	0.1	18	3	4		18	
ADS18W ADS18W	2008	0	2311	292	0.1	18	3	4		18	
ADS18W ADS18W	2008	0	2311	302	0.1	18	3	4			
ADS18W ADS18W	2008	0	2311	312	0.2		3			18	
ADS18W ADS18W	2008	0	2311	331	0.4	18	3	4		18	
ADS18W ADS18W	2008	0	2311	352	0.1	18	3	4		18	
ADS18W ADS18W	2008	0	2311	354	0.3	18	3				+
ADS18W ADS18W	2008	0	2311	11	0.1	18	3	4		18	
ADS18W ADS18W	2008	0	2315	13	0.4	18	3				
ADS18W ADS18W	2008	0	2315	21	0.1	18	3	4			
ADS18W ADS18W	2008	0	2315	31	0.2		3				
ADS18W ADS18W	2008	0	2315	41	0.3	18	3	4			
ADS18W ADS18W	2008	0	2315	42	0.2	18	3	4		18	
ADS18W	2008	0	2315	52	0.3		3	4			
ADS18W	2008	0	2317	31	0.8	20	3	4			+
ADS18W ADS18W	2008	0	2317	52	0.1	20	3	4		18	
ADS18W ADS18W	2008	0	2317	61	0.2	20	3	4		_	
ADS18W ADS18W	2008	0	2317	62	0.1	20	3	4			
ADS18W ADS18W	2008	0	2317	82	0.2	20	3	4			
ADS18W ADS18W	2008	0	2317	11	0.1		3	4			
ADS18W ADS18W	2008	0	2318	11				4			+
ADS18W ADS18W	2008	0	2318	13	0.6	18 18	3	4			
ADS18W ADS18W	2008	32	509	20		20	3	4			
ADS18W ADS18W	2008	32	509	30	0.2	20		4		18	
ADS18W ADS18W	2008	32	512	30		20		4		_	
ADS18W ADS18W	2008	32	512	40	0.4			4			+
	2008	32	512	50		12		4			
ADS18W	2008	32	531	10	0.5	20				18	
ADS18W ADS18W	2008	32	531	30	0.5	14		4		18	
ADS18W ADS18W	2008	32	570	20	0.1	20		4			
ADS18W Total				dway wid		20		4	31	10	12962.03
ADS18VV Total	2008	34	1040	10	0.5	18		1	1040	18	
ADS18SW ADS18SW	2008	34	1040	20	0.3	18		4			
ADS18SW ADS18SW	2008	34	1040	10				4		+	+
ADS18SW Total				ıpgrade ar				4	3043	10	1062
ADDIOD W Total	2008	0	2007	40		14					1089
	2008		5			17					0
	2008	32	13								0
	2008	32	13	150							0
	2008	32	13	180							0
	2008	32	13	200							124
	2008	32	13	220							124
	2008	32	33	20							0
	2008	32	33	60							0
	2008	32	33								0
	2008	32	33								0
	2008	32	33	120							0
	2008	32	33	140							0
	2008	32	33	160							0
	2008	32	33	180							0
	2008	32	33	200							0
	2008	32	34	35							309
	2008	32	34								386
	2008	32	35						1		348
	2008	32	36	30							0
	2008	32	36								0
	2008	32	36								0
	2008		63								0

			NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	1	n .
NEED 1		AGENCY_	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS_ SHOULDER_ TYPE_CODE			MSRISD_ ADS_NUMBE R	MSRISD_ BIA_CTI
	2008	32	63	40			II.				0
	2008	32	63								0
	2008	32	63	80							0
	2008	32	63	120							309
	2008	32	63	140							386
	2008	32	63	160							1159
	2008	32	132	20							77
	2008	32	133	20							232
	2008	32	133	40							232
	2008	32	331	20							309
	2008	32	332	20							386
	2008	32	332	50							0
	2008	32	334	30							386
	2008	32	335	20							309
	2008	32	336								309
	2008	32	354	20							116
	2008	32	364	70							0
	2008	32	368								124
	2008	32	562	20		1					81
	2008	32	5000	50							0
	2008	32	5000	70							0
	2008	32	5000	110							154
	2008	32	5000	140							154
	2008	32	5000 5000	160							154 154
	2008 2008	32 32	5000	180 200							134
	2008	32	5000	200							174
	2008	32	5001	40							139
	2008	32	5001	60							344
	2008	32	5002	30							154
	2008	32	5002	50							154
	2008	32	5002	70							154
	2008	32	5005	30							309
	2008	32	5007	50							154
	2008	32	5007	70							154
	2008	32	5009	20							154
	2008	32	5010								154
	2008	32	5010	70							232
	2008	32	5010								154
	2008	32	5010	130							154
	2008	32	5012	20							386
	2008	32	5012	50							154
	2008	32	5012	70							154
	2008	32	5012	90							232
	2008	32	5013								309
	2008	32	5013	70							309
	2008	32	5016								116
	2008	32	5020	30							309
	2008	32	5020								463
	2008	32	5021	20							309
	2008	32	5027	20							116
	2008	32	5031	40							124
	2008	32	5037	20							116
	2008	32	5037	40							232
	2008	32	5037	60							154
	2008	32	5037	80							154
	2008	32	5038	20							116
	2008	32	5043	20							386
	2008	32	5045								116
	2008	32	5049	20							232
	2008	32	5054	20			1				116

	11	г т	NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	11	TI .
NEED 1		AGENCY_	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS_ SHOULDER_ TYPE_CODE			MSRISD_ ADS_NUMBE R	MSRISD_ BIA_CTI
	2008	32	5056	20							154
	2008	32	5059	20							116
	2008	32	5063	27							1159
	2008	32	5080	12							C
	2008	32	5087	20							154
	2008	32	5087	40							154
	2008	32	5091	80							232
	2008	32	5091	100							116
	2008	32	5092	20							116
	2008	32	5099	20							0
	2008	32	5111	20							116
	2008	32	5111	50							116
	2008	32	5111	70							116
	2008	32	5113	20							232
	2008	32	5203	20							154
	2008	32	8008	20							386
	2008	32	8008	40							154
	2008	32	8009	30							309
	2008	32	8009	50							154
	2008	32	8070	20							2317
	2008	32	12	550							(
	2008	32	368								1159
	2008	33	15								0
	2008	33	15								0
	2008	33	15 16								229
	2008 2008	33	16								328
	2008	33	16								0
	2008	33	20	20							772
	2008	33	59	20							772
	2008	33	59	50							
	2008	33	59	80							
	2008	33	59	100							
	2008	33	59	150							
	2008	33	70	50							1545
	2008	33	71	20							(
	2008	33	71	40							0
	2008	33	221	30							0
	2008	33	6310	30							C
	2008	33	6312								290
	2008	33	6325	50							C
	2008	33	6331	30							193
	2008	33	6440	60							386
	2008	33	6460	30							966
	2008	33	6461	20							232
	2008	33	6486	20							135
	2008	33	6486								255
	2008	33	6731	30							282
	2008	33	6732	20							251
	2008	33	6810	13							579
	2008	33	6910	20							251
	2008	33	6923	30							0
	2008	33	6720	40							197
	2008	34	56								0
	2008	34	9								C
	2008	34	7057	70							112
	2008	34	7057	100							193
	2008	34	9652	50							193
	2008	34	9								C
	2008	34	11	20							C
	2008	34	11	40							0

	1	1	NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES	11	n .
NEED 1		AGENCY_	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS_ SHOULDER_ TYPE_CODE	MSRIS SURFACE_ TYPE_CODE	MSRISD_ FUTURE_AD T_COUNT	MSRISD_ ADS_NUMBE R	MSRISD_ BIA_CTI
	2008	34	471	20							398
	2008	34	474								0
	2008	34	474	100							0
	2008	34	705	20							0
	2008	34	7043	20							765
	2008	34	7043								294
	2008	34	7044	20							0
	2008	34	7052	20							309
	2008	34	7054								232
	2008	34	7140								0
	2008	34	7140								81
	2008	34	7140								0
	2008	34	7140	80							0
	2008	34	7140								0
	2008	35	4								0
	2008	35	4								0
	2008	35	4								0
	2008	35	4								463
	2008	35	4	_							0
	2008	35	7								996
	2008	35	12								0
	2008	35	12								0
	2008	35	12								0
	2008	35	13 13								0
	2008 2008	35 35	26								348
	2008	35	26								699
	2008	35	27	110							409
	2008	35	27	130							97
	2008	35	27	160							0
	2008	35	41	20							479
	2008	35	41	40							0
	2008	35	41	80							0
	2008	35	41	100							0
	2008	35	59	180							0
	2008	35	59								0
	2008	35									386
	2008	35	65								0
	2008	35	65								463
	2008		67								413
	2008	35									398
	2008	35	135								579
	2008	35	136								1545
	2008	35	171	20							348
	2008	35	172	30							0
	2008	35	172	80							386
	2008	35	251	70							0
	2008	35									695
	2008	35	8015								772
	2008	35	8015								579
	2008	35	8017	40							888
	2008	35	8017								1159
	2008	35	8018								888
	2008	35		20							0
	2008	35	8033								309
	2008	35	8059	20							1004
	2008	35	8059	50							1545
	2008	35	8059	90							425
	2008	35	8065								1004
	2008	35									232
	2008	35	8066	35							232

	П	, i	NEED	1: HIGH	IWAYG	EOMETR	IC DESIG	N DEFICI	ENCIES_	11	п
NEED 1		AGENCY_	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH	ROADWAY_ WIDTH	MSRIS_ SHOULDER_ TYPE_CODE	MSRIS SURFACE_ TYPE_CODE	MSRISD_ FUTURE_AD T_COUNT	MSRISD_ ADS_NUMBE R	MSRISD_ BIA_CTI
	2008	35	8066	45							232
	2008	35	8066								232
	2008	35	8066								425
	2008	35	8068	20							386
	2008	35	8068	40							386
	2008	35	8081	30							3090
	2008	35	8083	20							1159
	2008	35	8083	40							772
	2008	35	8084	20							966
	2008	35	8084	50							966
	2008	35	8084	63							966
	2008	35	8084	70							309
	2008	35	8084	90							772
	2008	35	8086	20							888
	2008	35	8086	40							116
	2008	35	8086								1711
	2008	35	8087	20							1159
	2008	35	8087	32							1159
	2008	35	8090	20							463
	2008	35	8090	64							1159
	2008	35	8090	70							1159
	2008	35	8095	20							463
	2008	35	61	20							772
	2008	35	8031	70							463
	2008	36	6								0
	2008	36	7	130							0
	2008	36	9	30							C
	2008	36	9								0
	2008	36	9	52							0
	2008	36	9	55							0
	2008	36	9								0
	2008	36	9	100							
	2008 2008	36 36	12	20 70							560
	2008	36	12	120							
	2008	36	12	140							154
	2008	36	12								134
	2008	36	12	230							942
	2008	36	12								(
	2008	36	15								
	2008	36	15	185							
	2008	36	15	215							
	2008	36	15	235							
	2008	36	15	250							
	2008	36	27	20							0
	2008	36	28	20							657
	2008	36	28								158
	2008	36	30								541
	2008	36	30								309
	2008	36	30								386
	2008	36	30								541
	2008	36	30								309
	2008	36	30	130							386
	2008	36	31	16							850
	2008	36	37	30							270
	2008	36	39	30							201
	2008	36	39	50							120
	2008	36	39	70							135
	2008	36	54								0
	2008	36	60								0
	2008	36	69	20							116

### Appendix C - Long Range Improvement Needs for Navajo-BIA Roads NEED 1: HIGHWAY GEOMETRIC DESIGN DEFICIENCIES

	1		NEED	i. nigr	IVVATG	EOMETR	IC DESIG	N DEFICI	LINCIES	I	n
NEED 1	FISCAL_ YEAR	AGENCY_ CODE	ROUTE_ NUMBE R	SECTION_ NUMBER		ROADWAY_ WIDTH	MSRIS_ SHOULDER_ TYPE_CODE	MSRIS_ SURFACE_ TYPE_CODE	MSRISD_ FUTURE_AD T_COUNT	MSRISD_ ADS_NUMBE R	MSRISD_ BIA_CTI
	2008	36	108	40							413
	2008	36		20							(
	2008	36	112	20							(
	2008	36	112	40							
	2008	36	112	90							154
	2008	36	113	20							(
	2008	36	123	10							
	2008	36	151	20							
	2008	36	203	30							178
	2008	36	203	60							(
	2008	36	321	70							332
	2008	36	321	90							301
	2008	36	541	20							328
	2008	36	543	20							0
	2008	36	544	20							0
	2008	36	9054	20							116
	2008	36	9073	30							197
	2008	36	9202	20							137
	2008	36	9345	40							0
	2008	36	9345	65							0
	2008	36	9402	50							0
	2008	36	9402	90							251
	2008	36	9402	110							1580
	2008	36	9504	20							344
	2008	36	9603	20							243
	2008	36	9660	20							197
	2008	36	9660	40							406
	2008	48	3003	20							0
	2008	48	3005	20							C
	2008	48	4055	40							0
	2008	48	4055	60							0
	2008	48	4063	20							77
	2008	48	4065	20							0
	2008	48	3002	40							77
	2008	48	3002	80							0
	2008	48	3003	70							C
	2008	48	3003	100							C
	2008	48	3003	120							0
	2008	48	4002	20							0
	2008	48	4022	20							0
	2008	48	4022	40							0
	2008	48	4022	80							0
	2008	48	4028	30							0
	2008	48	4030	10							0
	2008	48	4178	20							0
	2008	48	4178	50							0
Grand Total					6147.9						6706062

		ROUTE_	1	· · · · · ·		DEFICIENCIE	_	ı	1	
AGENCY_ CODE	RESERVATION	NUMBE		SECTION_ LENGTH		MSRIS_SURFACE_ TYPE_CODE		MSRIS_ROADBED_ CONDITION_CODE		TOTAL COST
35	780	7	10	0.2	1	4	12	4	360.263	
36	780 Class 1 PCI<	12 10andRB	110	0.3 0.5	1	4	24	4	540.394	900.6563
36	780	12	100	0.5	1	4	40	4	900.656	700.0202
36	780	12	105	0.4	1	4	40	4		
36	780	12	115	0.8	1	4	40	4	1441.05	
35	780	7	40	0.7	1	5	58	4		
35	780	7	15	0.1	1	5	62	4		
33	780	1017	10	0.7	1	4	65	4	1260.92	5404.701
33	780	Class 1 1017	RB<5	3.2 0.2	1	4	65	7	191.989	5424.701
33	780	1017	25	0.2	1	4	65	7		
35	780	7	30	0.1	1	5	66			
	Class 1 PCI=5			0.4						301.3918
35	780	4	32	0.2	2	4	0	3	407.339	
32	780	12	520	5.1	2	4	0	4	10387.1	
32	780	12	530	12.3	2	4	0	4		
32	780	12	540	8.4	2	4	0			
32	780	13	100	0.9	2	4	0	4		
32	780 780	13 13	120 130	3.2	2 2	4	0	4		
32	780	13	140	1.1	2	4	0			
32	780	13	160	0.5	2	4	0	4		
32	780	13	170	4.3	2	4	0			
32	780	13	190	0.1	2	4	0	4	59.7693	
32	780	13	210	0.1	2	4	0	4	59.7693	
32	780	13	230	5.7	2	4	0	4	3406.85	
32	780	13	240	4.5	2	4	0			
33	780	20	80	12.7	2	4	0	4		
33	796 796	20	90 250	1.6	2	4	0	4		
34	796	9	252	0.4	2 2	4	0	4		
34	796	9	254	10.2	2	4	0			
34	796	9	256	0.5	2	4	0			
34	796	9	260	0.2	2	4	0	4	119.539	
35	780	4	70	0.3	2	4	0	4	611.008	
35	780	4	73	3.1	2	4	0			
35	780	4	76	3.9	2	4	0	4		
35	780	4	90 95	1.3	2	4	0			
35 35	780 780	4	, -	1.1	2 2		0	_		
35	780	4	110	4.1	2		0			
35	780	4		0.2	2	4	0			
35	780	4	116	0.4	2	4	0	4	184.9	
35	780	4		6	2		0		12220.2	
35	780	7	50	0.4	2		0			
35	780	7	52	0.7	2	4	0			
35 35	780 780	7 12	56 420	7.7	2 2		0			
35	780	12	420	2.2	2		0			
35	780	12	450	2.6	2		0			
35	780	12	455	1.4	2		0			
35	780	12	470	2.9	2		0			
35	780	12	471	0.2	2		0		92.45	
35	780	12	473	6.6	2		0		13442.2	
35	780	12	476	0.6	2		0		1222.02	
35	780	64	10	5.3	2		0		10794.5	
35	780	64	15	6.5 2.2	2 2		0		13238.5	
35 35	780 780	64 64	20	3.5	2		0		4480.72 7128.43	
35	780	64	23	5.8	2		0		11812.8	
35	780	64	24	0.6	2		0		1222.02	
35	780	64	25	0.4	2		0			
35	780	64	26	0.1	2	4	0	4	203.669	

	1	ROUTE_		_	I	DEFICIENCIE		I	ır —	1
AGENCY_ CODE	RESERVATION		SECTION_ NUMBER		MSRISCLASS_C ODE		MSRIS_ PCI	MSRIS_ROADBED_ CONDITION_CODE		TOTAL COST
36	780	6	80	2.3	2	4	0	4		
36	780	7	85	1.2	2		0			
36	780 780	7	100 105	8.8 1.3	2 2		0			
36	780	7	110	2.1	2	4	0	4		
36	780	7	115	2.1	2		0	4		
36	780	7	120	0.4	2		0	4		
36	780	7	140	0.6	2		0	4	540.362	
36	780	110	55	0.5	2		0	4	1018.35	
34	780	9	160	1	2		3	4		
35	780	41	10	0.6	2		7	4		
35 35	780 780	41	12 14	6.1	2 2	4	7	4		
35	780	41	16	1.1	2		7	4		
35	780	41	30	1.3	2		7	4	1	
35	780	41	50	2	2		7	4		
35	780	41	60	0.9	2	4	7	4	1833.02	
35	780	41	65	1.1	2		7	4	1469.59	
35	780	41	70	4.4	2		7	4		
35	780	41	90	2.5	2	4	7	4		
35 35	780 780	41	110 54	0.3 7.1	2 2	4	7	4	0	
33	796	9	240	4.3	2	4	12	4	2570.08	
34	796	9	242	4.8	2	4	12	4		
34	796	9	244	1.6	2		12	4	956.309	
34	796	9	246	4.8	2		12	4	2868.93	
32	780	36	80	0.6	2	5	12	4	358.616	
32	780	36	90	0.9	2	5	12	4		
32	780	36	94	3.4	2		12	4		
32	780 780	36 36	95 96	0.3	2 2		12 12	4		
32	780	36	96	0.2	2		12	4		
32	780	36	99	0.0	2		12	4		
32	780	36	100	4.6	2		12	4		
36	780	15	341	1.6	2	4	15	4	3258.71	
36	780	15	342	0.6	2		15	4	1222.02	
36	780	15	344	0.4	2		15	4		
36	780	15	346	0.3	2		15	4	270.181	
36 36	780 780	15 15	130 135	0.8	2 2		20	4		
36	780		150	5.1	2		20		1029.33	
36	780	15	155	2.8	2		20			
36	780	15	160	0.9	2	4	20	4	810.543	
36	780		165	1.6	2		20			
36	780		170		2		20			
36	780		180	2.3	2		20			
36 36	780 780	15 15	190 200	0.3	2 2		20			
36	780		210		2		20			
36	780	15	260	0.5	2		20			
36	780	15	300	0.9	2		20			
36	780	15	305	4.2	2	4	20	4		
36	780		310		2		20			
36	780	15	315	1	2		20			
36	780	15	320	2.8	2		20			
36	780 780		325 330	1.2	2 2		20			
36	780	15	340	2.4	2		20			
36	780	110	50	0.4	2		20			
34	724		10	2.3	2		22			
34	724	56	20	2.5	2		22	4		
34	724		30	2.1	2		22	4		
34	796		95	0.4			24			
36	780	7	90	0.5	2	4	24	4	1018.35	

		ROUTE_		_	1	DEFICIENCIE	<u> </u>	1	1	
AGENCY_ CODE	RESERVATION		SECTION_ NUMBER	SECTION_ LENGTH				MSRIS_ROADBED_ CONDITION_CODE		TOTAL COST
36	780	15	220	6.5	2	4	25	4	3004.63	
36	780	15	230	3.6	2		25			
36	780	15	240	3.6	2		25			
36	780	15	270	6.4	2	4	25			
36	780	15	280	6.4	2	4	25	4		
36	780 780	15 15	290 295	1.7	2 2		25 25	4		
34	796	474	60	0.1	2		27	4		
34	796	474	65	0.1	2		27	4		
34	796	474	70	0.6	2		27	4		
34	796	474	90	0.4	2		27	4	489.414	
34	796	474	110	1	2	4	27	4	1223.53	
36	780	6	10	8.3	2	4	29	4	16904.6	
32	780	36	10	7.5	2		31	4	4482.7	
34	796	9	170	7.7	2		36			
34	796		183	0.5	2	5	36	4	298.847	
22	Class 2 PCI<			325.3			40		100.55	464203.9
32	796		560	0.6	2	4	40			
34	796	9	262	0.4	2	4	40	4		
34	796 796	9	264 266	4.9	2 2	4	40	4		
35	796	12	480	4.8	2		40			
35	780	12	485	6.8	2	4	40	4		
36	780	6	60	0.5	2	4	40			
36	780	6	66	14.2	2		40	4		
36	780	12	130	2.8	2		40			
36	780	12	150	0.4	2		40	4		
36	780	110	10	0.3	2	4	40	4	270.181	
36	780	110	30	0.2	2	4	40	4	180.121	
36	780	110	35	0.3	2		40	4		
32	780	13	90	1.3	2		40	4		
32	780	13	95	6.4	2		40	4		
0	780	2006	70	0.2	2		41	4		
35	780 780	4	30 20	0.3 2.4	2		41	4		
36	780	6	40	1.7	2 2		41	4		
36	780	6	50	3.5	2		41	4		
36	780	6	63	3.3	2		41	4		
36	780	100	20	0.1	2		41	4		
36	780		25	0.1	2		41	4		
35	780	4	34	0.5	2	5	41	4	860.112	
35	780	4	36	0.4	2	5	41	4	688.089	
35	780	4		0.9	2		41	4		
35	780			0.4	2		41			
35	780			3.5	2		41			
35	780		56	0.2	2		41	4		
48	796 706		80 50	0.7 3.2	2		42			
48	796 796	3003 3003	50	0.4	2 2		44			
48	796	3003	60	5	2		44		1	
36	780	112	10	3.4	2		45			
36	780		30	2.3	2		45			
36	780		35	0.3			45			
36	780	112	50	0.2	2		45			
32	780	36	20	0.4	2		45			
32	780		40	0.6	2	5	45		1	
32	780			3	2		45		1377.81	
32	780	36	55	5.4	2		45			
32	780	36		0.6	2		45			
32	796		190	1.1	2		45			
32	780	36	110	0.7	2		49			
33	780	59	130	0.7	2		49		1204.16	
34	796 706		180	0.5			49		229.635	
34	796	9	186	0.3	2	5	49	4	137.781	

	I	ROUTE_	1	_		DEFICIENCIE	-	I	1	1
AGENCY_ CODE	RESERVATION		SECTION_ NUMBER		MSRISCLASS_C ODE			MSRIS_ROADBED_ CONDITION_CODE		TOTAL COST
34	796	9	200	4.9	2	5	49	4	2250.42	
34	796	9	205	3.5	2		49	4	1607.45	
34	796	9	220	1.3	2		49	4	597.051	
34	796 796	9	223 226	4.2 0.4	2 2	5	49	4	1928.93 183.708	
34	796	9	230	6.2	2		49	4	2847.47	
35	780	13	10	0.7	2		49	4	1204.16	
35	780	13	30	1.3	2	5	49	4	2236.29	
35	780	13	35	0.8	2	5	49	4	1376.18	
35	780	13	50	1.1	2		49	4		
35	780	13	55	0.9	2		49	4	1548.2	
36	780 780	12 12	220 222	0.3	2 2	5 5	49 49	4		
36	780	12	224	0.8	2		49	4		
36	780	12	226	0.3	2		49	4		
36	780	12	228	0.1	2		50	4		
36	780	12	240	1.8	2	4	50	4	1075.85	
36	780	12	245	4.4	2		50	4		
36	780	12	250	1.8	2	4	50	4	2425.05	
36	780	12	260	1.8	2	4	50	4		
36	780 780	12 12	280 285	1.7 4.9	2 2	4	50 50	4	1016.08 2928.7	
36	780	12	290	0.2	2	4	50	4	407.339	
36	780	15	348	0.2	2	4	54	4	450.302	
36	780	112	60	0.2	2		54	4	180.121	
36	780	112	63	0.9	2	4	54	4	1833.02	
36	780	112	66	0.2	2	4	54	4	407.339	
	K80	6	70	4.4	2	4	54	4		
35	780	4	130	0.1	2		54	4	172.022	
35 35	780 780	4	132 134	4.9	2 2	5	54 54	4	8429.09	
35	780	4	134	1.3	2	5	54	4	3440.45 2236.29	
36	780	12	160	0.2	2		54	4	146.068	
36	780	12	165	1.1	2		54	4	803.373	
36	780	12	170	0.2	2	5	54	4	344.045	
36	780	12	180	0.2	2	5	54	4		
36	780	12	185	0.3	2		54	4		
36	780	12	190	4.9	2		54	4	2250.42	
36	780 780	12 12	195 210	0.8 3.6	2 2		54 54	4	367.416 1653.37	
36	780		10		2		54	•	2408.31	
36	780	27	30	4.9	2		54	4		
36	780	27	35	0.5	2	5	54	4	860.112	
36	780	27	40	1.3	2		54	4		
36	780		45	4	2		54	4		
36	780		50	0.6	2		54	4		
36 36	780 780	110 110	40	0.1	2 2		54 54	4		
36	780		45		2		54	4		
48	780	3005	10	0.1	2		55	4		
48	780	3005	15	3.7	2		55	4		
48	780	3005	30	0.6	2	4	55	4		
48	780		35	4.2	2		55	4		
48	780	3005	40	4.7	2		55	4		
48	780	3005	45	0.3	2		55	4		
34	780 780	9	120 125	0.5	2 2		58 58			
34	780	9	140	2.3	2		58	4		
35	780	7	42	0.5	2		58			
35	780		44	0.2	2		58			
35	780	7	46	0.5	2		58	4		
35	780	7	48	0.1	2		58		172.022	
35	780		190	0.2	2		58			
35	780	27	193	0.1	2	5	58	4	172.022	

	1	POUTE	1		r	DEFICIENCIE		I	1	1
AGENCY_ CODE	RESERVATION	ROUTE_ NUMBE R	SECTION_ NUMBER		MSRISCLASS_C ODE			MSRIS_ROADBED_ CONDITION_CODE		TOTAL COST
35	780	27	196	0.1	2	5	58	4	172.022	
35	780	27	200	0.1	2		58	4		
35 35	780 780	59 59	210 213	0.9 6.5	2 2	5 5	58 58	4		
35	780	59	213	0.9	2	5	58	4		
35	780	59	230	4.2	2		58	4		
35	780	59	240	0.2	2		58	4	344.045	
35	780	59	245	0.5	2	5	58	4	860.112	
36	780	12	50	1.1	2		58	4	1892.25	
36	780	12	55	0.8	2		58	4		
36	780	12	60	0.6	2		58	4		
36	780 780	12 12	63	0.9	2	5	58	4		
36	780	12	66 80	3.6 0.3	2 2	5 5	58 58	4		
36	780	12	85	0.3	2		58	4		
34	780	9	150	4.5	2		62	4		
34	796	474	50	3.1	2	4	62	4	3792.96	
34	796	474	53	0.9	2	4	62	4	1101.18	
34	796	474	56	0.1	2	4	62	4		
35	780	27	40	2.2	2	5	62	4		
35	780 780	27 27	50 55	0.2	2	5	62	4	189.793 948.963	
35	780	27	60	1.4	2 2	5 5	62 62	4	1748.23	
35	780	27	70	0.3	2	5	62	4	374.622	
35	780	27	80	0.8	2		62	4	998.991	
35	780	27	83	1	2	5	62	4	1248.74	
35	780	27	86	2.8	2	5	62	4	3496.47	
48	796	3003	95	2.1	2	5	62	4		
48	796	3003	110	0.1	2		62	4	25.5006	
48	796 796	3003	130 135	2.8	2 2	5	62 62	4	714.017	
33	796	3003	60	14	2		65	4	510.012 12608.5	
33	780	15	20	4.9	2		66	4	9979.8	
33	780	15	10	5.4	2		66	4	6743.19	
33	780	15	30	3.9	2	5	66	4	4870.08	
48	796	3003	90	0.3	2	5	66	4	76.5018	
	K80	2	80	12.5	2		75	4	6460.2	
33	780	15	60	3.9	2		90	4	3512.35	
33	780	15 Class 2	115 PR-5	295.4	2	4	90	4	2701.81	347734.6
36	780	9		3.8	2	5	66	5	200.777	347734.0
36	780	9	90	1.4	2		66			
36	780	9	110	0.3	2	5	66	5	15.8508	
36			115	3.6	2	5	66	5	190.21	
	Class 2 PCI=5			9.1						480.8076
34	796		30	3.9	2		70	5		
34	796 796		35 40	0.1	2		70 70	5 5		
33	790		10		2		70	5		
33	780	59	30	11.3	2		70	5		
33	780	59	40	0.1	2	5	70	5		
33	780	59	60	0.5	2		70	5		
33	780		70	1.2	2	5	70	5		
33	780	59	90	0.9	2		70	5		
33	780	59	110	2.2	2		70	5		
33	780 780		120 140	2.6	2 2		70 70	5		
33	780	59	140	0.2	2		70	5		
33	780	56	40	0.2	2		70	5		
34	724		60	0.7	2		70	5		
35	780	59	170	2	2		70	5		
35	780	59	190	0.1	2	5	70	5	17.987	
35	780	59	195	1.6	2		70		287.793	
35	780	59	200	1.8	2	5	70	5	323.767	

	1	POTER	1	_		DEFICIENCIE	_	ı	1	
AGENCY_ CODE	RESERVATION	ROUTE_ NUMBE R	SECTION_ NUMBER		MSRISCLASS_C ODE			MSRIS_ROADBED_ CONDITION_CODE		TOTAL COST
35	780	59	205	1.9	2		70	5		
36	780	12	16	0.7	2		70			
36	780 780	12 12	30 35	0.2	2 2		70 70	5 5	35.9741 71.9482	
36	780	12	40	3.1	2	5	70	5	825.974	
36	780	12	43	2.7	2		70	5	719.397	
36	780	12	46	0.5	2		70	5	133.222	
32	780	364	65	1.3	2	4	74	5	514.18	
32	780	364	80	0.4	2		74	5	172.44	
32	780	364	82	1	2		74	5		
32	780 780	364 364	84 86	0.5	2 2		74 74	5		
36	780	7	146	0.4	2		74	5		
36	780	7	150	0.2	2		74	5		
32	780	13	80	5.2	2	5	74	5	1385.5	
36	780	54	30	0.9	2		78	5		
36	780	54	40	3.2	2		78	5		
36	780	54	50	4	2		78	5	211.344	
36 36	780 796	54 54	70 10	1.4 0.8	2 2	5 5	78 78	5	73.9704 42.2688	
36	796	54	20	0.8	2		78	5	0.42	
36	780	9	45	1.5	2		82	5		
36	780	9	51	0.2	2	5	82	5	11.4324	
36	780	12	10	0.5	2	5	82	5	0	
36	780	12	12	1.6	2		82	5	0	
36	780	12	14	5.9	2		82	5	0	
36	780 780	9	53 10	0.1 3.4	2 2	5	84 86	5 5	0	
36	780	9	20	0.6	2		86	5		
36	780	9	40	2.2	2		86	5		
36	780	9	60	1.6	2	5	87	5	0	
33	780	15	50	0.4	2		90	5	387.13	
33	780	15	80	1.2	2		90	5	521.674	
33	780 780	15 15	100 110	2.5 2.5	2 2		90	5	2419.56 1086.82	
33	780	15	120	7.6	2		90	5	3303.94	
33	780	15	33	0.3	2		90	5	53.9611	
33	780	15	36	0.4	2	5	90	5	71.9482	
36	780	9	25	1.3	2	5	90	5	0	
	Class 2 PCI>			97.8			•		207.42	22129.25
36	780 780			0.4	2		30		387.13 96.7824	
30	/80	Class 2		0.1		4	30	0	90.7824	483.9122
36	780			0.3	2	5	78	7	0.84	403.7122
36				0.7	2		78	7	35.6582	
	Class 2 PCI>			1.1						36.49821
32	780		10	0.3	3		0			
32	780 780		10 40	0.6	3		0			
32	780 780	509	60	0.1	3		0			
32	780	545	10	0.3	3		0			
34	796		10	0.6	3		0			
32	780		20	0.2	3	4	0		61.4	
32	780	509	30	0.8	3		0			
32	780	509	50	0.7	3		0			
32	780 780	509 512	70 10	0.2	3		0			
32	780	512	20	0.1	3		0			
32	780	512	30	0.1	3		0			
32	780	512	40		3		0			
32	780	512	50	1.7	3		0			
32	780	531	10	0.5	3		0			
32	780	531	20	0.4	3		0			
32	780	531	30	0.1	3	4	0	4	30.7	

	1	ROUTE_				DEFICIENCIE	li i	П	<u> </u>	
AGENCY_ CODE	RESERVATION		SECTION_ NUMBER		MSRISCLASS_C ODE			MSRIS_ROADBED_ CONDITION_CODE		TOTAL COST
32	780	570	20	0.1	3		0	4		
33	780 780	601	10	0.1	3		0	4		
33	780	602	20	2.2	3		0	4	603.974 2657.48	
33	780	604	40	0.1	3		0	4	120.795	
33	780	605	30	0.1	3		0	4	120.795	
33	780	609	26	0.2	3		0	4	356.589	
33	780 780	1017 101	41 10	0.3	3		0	4	362.384 241.589	
35	780	101	10	0.2	3		0	4	241.589	
35	780	105	10	0.2	3		0	4	241.589	
35	780	200	10	0.1	3	4	0	4	120.795	
35	780	201	10	0.1	3		0	4		
35	780	205	10	0.1	3		0	4		
35 35	780 780	302 400	10	0.2	3		0	4	241.589 120.795	
35	780	601	10	0.1	3		0	4		
35	780	405	10	0.1	3		8	4		
36	780	100	50	0.4	3		10	4		
35	780	206	10	0.1	3		19	4		
33	780 796	106 705	10	0.4	3	4	20	4	713.178 153.5	
34	796	705	30	0.3	3		22	4	122.8	
33	780	614	10	0.1	3		27	4		
33	780	614	20	0.4	3		27	4	713.178	
33	780	614	30	0.4	3		27	4		
33	780 780	615 616	10	0.1	3		27 27	4		
33	780	616	20	0.3	3		27	4	178.295	
33	780	6002	10	0.1	3		27	4	178.295	
33	780	6003	10	0.1	3	4	27	4	178.295	
35	780	106	10	0.2	3		29	4	241.589	
0	724 780	716 2318	10	0.5	3		30	4	153.5	
33	780	610	10	0.7	3		31	4	845.563 362.384	
33	780	612	10	0.3	3		31	4	362.384	
33	780	613	10	0.3	3		31	4	362.384	
33	780	617	10	0.2	3		31	4	241.589	
33	780 780	618 1011	10	0.2	3		31	4		
33	780		20	0.1	3		31	-	845.563	
33	780	1015	10	0.8	3		31	4		
33	780	6141	10	0.2	3	4	31	4	241.589	
33	780	608	50	0.4	3		35			
35	780			0.1	3		38		120.795	
35	780 Class 3 PCI<		10 8<5	0.2 22.5	3	4	38	4	241.589	20269.23
0	780		11	0.6	3	4	41	4	724.768	20203.23
0			12	0.6	3		41	4	724.768	
34	796	1044	10	0.1	3		45	4		
33	780	600	10	0.1	3		46		178.295	
33	780 780	600	20 30	0.2	3		46 46			
33	780	600	40	0.3	3		46			
33	780	6001	10	0.1	3		46		120.795	
35	780	202	10	0.1	3		46			
35	780	403	10	0.1	3		46			
35 34	780 796	800 1046	10	0.1	3		46 49	4 4		
34	796	1046	20	0.2	3		49	4		
34	796	1048	10	0.6	3		49	4		
34	796	1040	25	0.4	3	5	49	4		
34	796	1040	30	0.5	3		49	4		
33	780	603	10	0.6	3	4	50	4	724.768	

		luzaran na	,	VLLD 3.	PAVEIVILIVI	DEFICIENCIE			u-	1
AGENCY_ CODE	RESERVATION _CODE	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH				MSRIS_ROADBED_ CONDITION_CODE		TOTAL COST
34	796		20	0.7	3	4	54	4		
35	780	597	10	0.1	3	4	54	4		
35 35	780 780	597 597	20 30	0.2	3	4	54 54	4		
34	796	1043	10	0.3	3	5	58	4		
34	796	701	10	1.2	3	4	60	4		
33	780	606	10	0.2	3	5	62	4	241.589	
35	780		10	0.1	3	5	62	4		
0	780	2302	11	0.1	3	4	66	4		
0	780 780	2302 2302	12 13	0.4	3		66 66	4		
0	780	2302	14	0.1	3		66	4		
0	780	2302	21	0.1	3		66	4		
0	780	2302	31	0.1	3		66	4		
0	780	2305	21	0.1	3		66	4		
0	780	2305	62	0.1	3		66	4		
0	780	2305	71	0.1	3		66	4		
0	780 780	2305 2306	82 31	0.2	3 3	4	66 66	4		
0	780	2306	41	0.4	3	4	66	4		
0	780	2306	51	0.3	3		66	4		
0	780	2306	52	0.2	3	4	66	4	241.589	
0	780		61	0.2	3	4	66	4		
0	780	2309	11	0.3	3	4	66	4		
0	780	2309	21	0.5	3	4	66	4		
0	780 780	2309 2309	31 41	0.1	3 3	4	66 66	4		
0	780	2317	31	0.4	3	4	66	4		
0	780	2317	52	0.1	3	4	66	4		
0	780	2317	61	0.1	3	4	66	4	120.795	
0	780	2317	62	0.2	3	4	66	4	241.589	
0	780	2317	82	0.1	3	4	66	4		
33	780	616		0.2	3	4	66	4		
33	780 780	1015 1015	5	0.4	3	5 5	66 66	4		
33	760	Class 3		14.1	3	3	00	4	403.179	14875.88
35	780	203		0.2	3	4	6	5	59.94	11070100
		Class 3	PCI<40	0.2						59.94
33	780	614		0.2	3	4	66	5		
0					3		68			
0	780		52	0.2	3		68	5		
0	780 780		71 81	0.4	3		68 68	5 5		
0	780		91	0.1	3		68	5		
0	780		101	0.1	3		68			
0			122	0.1	3		68	5	29.97	
0	780		141	0.1	3		68			
0	780		162	0.3	3		68	5		
0	780 780		181 182	0.3	3		68 68			
0	780		191	0.2	3		68			
0	780		202	0.5	3		68			
0	780		204	0.1	3	4	68	5	29.97	
0	780		212	0.5	3		68			
0	780		214	0.1	3		68	5		
0	780		216		3		68	5		
0	780 780		218 221	0.1	3 3		68 68			
0	780		221	0.1	3		68	5		
0	780		231	0.2	3		68			
0	780		241	0.1	3	4	68	5	29.97	
0	780		252	0.2	3		68			
0	780		272	0.2	3		68	5		
0	780	2311	281	0.2	3	4	68	5	59.94	

	1	ROUTE_	1		PAVEIVIENI	11	li .	li .	li .	1
AGENCY_ CODE	RESERVATION		SECTION_ NUMBER		MSRISCLASS_C ODE			MSRIS_ROADBED_ CONDITION_CODE		TOTAL COST
0	780	2311	283	0.1	3	4	68	5	29.97	
0	780	2311	292	0.1	3		68	5		
0	780	2311	294	0.1	3		68	5		
0	780	2311	302	0.2	3		68	5		
0	780 780	2311 2311	312 331	0.4	3		68 68	5		
0	780	2311	351	0.1	3		68	5		
0	780	2311	354	0.1	3		68	5		
0	780	2315	41	0.2	3		68	5		
0	780	2315	42	0.3	3	4	68	5	89.91	
0	780	2315	52	0.8	3	4	68	5	239.76	
_	Class 3 PCI=			7.9				_		2482.63
0	780	2303	41	0.3	3		72	5		
0	780 780	2303 2303	43 51	0.1	3		72 72	5		
0	780	2303	72	0.2	3		72	5		
0	780	2303	81	0.2	3		72	5		
0	780	2304	22	0.1	3		72	5		
0	780	2304	31	0.2	3		72	5		
0	780	2304	41	0.1	3		72	5		
0	780	2304	52	0.1	3		72	5		
0	780	2304	62	0.3	3		72	5		
0	780	2315	11	0.4	3		74	5		
0	780	2315	13	0.1	3		74	5		
0	780	2315	21	0.2	3		74 74	5		
33	780 780	2315 608	31 10	0.3	3		80	5 5		
33	780	608	15	0.1	3		80	5		
33	780	608	20	1.3	3		80	5		
33	780	600	5	0.2	3		85	5		
33	780	608	5	0.1	3		80	6	29.97	
	Class 3 PCI>	=70 and	RB>=5	5.6						1793.32
34	796	1045	10	0.6	4		20	3		
32	780	5		8.4	4		0	4		
32	780 780	5 35	30 40	3.2	4		0	4		
32	780	35		2.8 8.2	4		0	4		
32	780	35	60	5.8	4		0	4		
32	780	35	70	3.4	4		0	4		
32	780		80	1.8	4	4	0	4		
32	780	35	90	0.9	4	4	0	4	150.975	
32	780	5060	10	1.4	4		0	4		
32	780	5060	30	2.1	4		0			
32	780	5068	10	3.2	4		0			
32	780 780	5099 5099	10 15	3	4		0			
32	780	5099	30	0.6	4		0			
32	780	5099	50	2.2	4		0			
32	780		53	7.5	4		0			
32	780	5099	56	0.3	4	4	0	4		
33	780	42	30	2.9	4		0			
33	780		36	5.4	4		0			
33	780		38	1.9	4		0			
33	780	42	40	1.7	4		0			
33	780 780	61 221	10 10	1.4	4		0			
33	780		15	2.7	4		0			
33	780	6410	40	1.1	4		0			
33	780	6440	80	1.1	4		0			
33	780	6460	70	0.2	4		0			
34	796	7062	10	2.5	4	4	0	4		
34	796	7062	15	1.4	4		0			
34	796		20	2.5	4		0		1111.88	
34	796	7062	25	1.1	4	4	0	4	489.225	

		DO METER	1			DEFICIENCIE		1		1
AGENCY_ CODE			SECTION_ NUMBER		MSRIS_CLASS_C ODE	MSRIS_SURFACE_ TYPE_CODE	MSRIS_ PCI	MSRIS_ROADBED_ CONDITION_CODE		TOTAL COST
34	796	7140	10	0.8	4	4	0	4	962.919	
34	796	7140	30	3	4	4	0	4		
34	796	7140	50	2.2	4	4	0	4		
34	796	7140	70	2.8	4	4	0	4		
34	796 796	7140 7140	90 110	0.8	4	4 4	0	4		
35	780	172	10	0.3	4	4	0	4		
35	780	251	60	8.5	4	4	0	4		
35	780	251	65	6	4	4	0	4		
35	780	251	80	0.8	4	4	0	4	910.082	
35	780	271	20	0.2	4	4	0	4		
35	780	808	10	0.1	4	4	0	4		
35	780	809	10	0.1	4	4	0	4	0 / 10 / 10	
35	780	8077	30	1.4	4		0	4		
35 35	780 780	8078	10 20	0.6	4	4	0	4		
36	780	8078 108	65	0.4	4		0	4		
36	780	602	10	2.6	4		0	4		
36	780	9402	35	0.1	4	4	0	4		
48	780	4069	10	0.1	4	4	0	4		
48	796	3002	60	1.9	4	4	0	4	845.025	
48	796	3002	90	2.2	4	4	0	4	978.45	
48	796	3002	95	4	4	4	0	4	1779	
32	780	34	60	9	4	4	7	4		
34	796	7046	30	2.2	4	4	10	4		
34	796	7046	33	1.7	4	4	10	4		
36	780	113	30	0.3	4	4	10	4	341.281	
36	780 780	321 6220	80 20	0.2	4	4	10 12	4		
35	780	60	30	1.6	4	4	17	4		
35	780	65	20	0.4	4	4	17	4		
35	780	65	60	6.5	4	4	17	4		
35	K80	60	10	0.4	4	4	17	4	455.041	
35	K80	60	20	1.7	4	4	17	4	1933.92	
36	780	151	10	0.4	4	4	17	4	455.041	
36	780	151	30	0.4	4	4	17	4		
36	780	151	35	0.3	4		17	4		
36	780 796	151 7044	40 10	0.3	4	4	17 20	4	341.281	
34	796		30	1.1	4		20	4		
34	796		36	4.8	4		20	4		
36	780	60	10	5.4	4		20	4		
36	780	60	15	7.5	4	4	20	4	13051.6	
36	780	60	30	0.7	4	4	20	4	1218.15	
36	780		60	0.1	4		20	4		
36	780	110	70	0.1	4		20	4		
36	780	112	70	0.3	4		20	4		
36	780 780	9031 9031	10 15	1.8	4		20	4		
32	780	562	10	0.4	4	4	20	4		
32	780	562	30	0.4	4	4	22	4		
35	780		40	0.7	4	4	22	4		
35	780	67	10	0.3	4	4	22	4		
35	780	67	30	1.7	4	4	22	4		
34	796	11	10	0.7	4		24	4		
34	796		30	4.1	4		24	4		
34	796	11	50	1.2	4		24	4		
34	796	11	60	1.8	4		24	4		
34	796 796	11 11	70 75	1.8 2.6	4		24 24	4		
48	796 796		70	2.6	4		25	4		
35	790	29	30	7	4				12181.5	
34	796		10	0.5	4		30		422.465	
34	796		40	0.3	4		30		133.425	
					i .			i		

New No.   No.   No.   No.   New No											
36										RESERVATION	
36											
36											
48			-								
48											
0											
0 780 2015 30 0.1 4 4 31 4 174. 0 780 2015 50 0.1 4 4 4 31 4 1044 0 780 2015 50 0.1 4 4 4 31 4 1044 0 780 2015 50 0.1 4 4 4 31 4 174. 32 780 63 10 4 4 4 31 4 231 4 2956 32 780 63 30 1.7 4 4 4 31 4 2956 32 780 63 50 0.4 4 4 31 4 31 4 966. 32 780 63 70 1.9 4 4 31 4 31 4 366. 32 780 63 90 2.2 4 4 4 31 4 31 4 266. 32 780 63 90 2.2 4 4 4 31 4 266. 32 780 63 90 0.2 4 4 31 4 266. 32 780 63 90 0.2 4 4 31 4 266. 32 780 63 100 0.2 4 4 31 4 266. 33 780 63 95 0.2 4 4 31 4 266. 35 780 251 20 6.1 4 4 31 4 266. 36 780 9202 10 0.3 4 4 31 4 31 4 166. 36 780 9202 10 0.3 4 4 31 4 31 4 166. 36 780 9202 30 1 4 4 31 4 31 4 16. 36 780 9202 30 1 4 4 31 4 13. 37 80 16 80 0.5 4 5 31 4 870. 33 780 16 80 0.5 4 5 31 4 870. 33 780 16 80 0.5 4 5 31 4 870. 33 780 16 80 0.5 4 5 31 4 870. 33 780 16 80 0.5 4 5 31 4 870. 33 780 16 80 0.5 4 5 31 4 870. 33 780 16 80 0.5 4 5 31 4 870. 33 780 16 80 0.5 4 5 31 4 870. 33 780 16 80 0.5 4 5 31 4 870. 33 780 16 80 0.5 4 5 31 4 870. 33 780 16 80 0.5 4 5 31 4 870. 34 780 9402 26 0.3 4 4 3 3 4 400. 36 780 9402 26 0.3 4 4 3 3 4 400. 36 780 9402 26 0.3 4 4 3 3 4 400. 36 780 9402 26 0.3 4 4 3 3 4 400. 36 780 9402 26 0.3 4 4 3 3 4 400. 36 780 157 30 0.5 4 4 35 31 4 870. 38 780 16 100 3.5 4 4 35 4 568. 48 796 4047 10 5.8 4 4 35 4 35 4 568. 38 796 4047 10 5.8 4 4 35 4 35 4 2575 48 796 4047 10 5.8 4 4 35 36 4 36. 38 780 16 110 0.1 4 4 36 4 36 4 400. 36 780 157 30 0.5 4 4 35 36 4 35 34 35 4 368. 37 780 16 10 0.4 4 3 4 36 4 400. 38 780 406 10 3.1 5 4 4 36 4 36 4 400. 39 780 4047 10 5.8 4 4 35 36 4 368. 31 780 16 110 0.1 4 4 3 4 36 4 400. 34 723 706 10 0.4 4 3 4 36 4 400. 36 780 37 780 15 15 15 4 4 4 40 4 46. 36 780 4055 70 1.4 4 4 40 4 40 4 46. 37 780 4055 70 1.4 4 4 40 4 40 4 40. 38 780 4055 70 1.4 4 4 40 4 40 4 40. 38 780 4055 75 0.3 4 4 4 40 4 40 4 46.			4		4	4	2		2015		
0	2	174.022	4	31	4	4	0.1	20		780	0
0											
0											
32											
32		-									
32		-									
32		-	4		4	4					
32	1	3306.41	4	31	4	4	1.9	70	63	780	32
32			4		4						
35											
36											
36											
33											
33											
36			4	31		4	0.5	85	16	780	
36	6	6090.76	4	31	5	4	3.5	100	16	780	33
48         796         4006         10         3.1         4         4         35         4         1378           48         796         4047         10         5.8         4         4         35         4         2579           48         796         4047         20         2.2         4         4         35         4         472           48         796         4047         30         1.5         4         4         35         4         472           48         796         4047         30         1.5         4         4         35         4         322.           32         780         514         10         0.1         4         4         36         4         120.           35         780         25         45         2         4         4         36         4         400.           35         780         25         45         2         4         4         36         4         3480.           33         780         16         120         5.4         4         5         36         4         2610.           34         723			4								
48         796         4047         10         5.8         4         4         35         4         2579           48         796         4047         20         2.2         4         4         35         4         472           48         796         4047         30         1.5         4         4         35         4         322.           32         780         514         10         0.1         4         4         36         4         120.           35         780         25         40         0.3         4         4         36         4         400.           35         780         25         45         2         4         4         36         4         400.           35         780         25         45         2         4         4         36         4         400.           33         780         16         110         2         4         5         36         4         9397           33         780         16         125         1.5         4         5         36         4         2610           34         723											
48         796         4047         20         2.2         4         4         35         4         472           48         796         4047         30         1.5         4         4         35         4         322           32         780         514         10         0.1         4         4         36         4         120           35         780         25         40         0.3         4         4         36         4         400           35         780         25         45         2         4         4         36         4         400           35         780         16         110         2         4         5         36         4         3480           33         780         16         120         5.4         4         5         36         4         9397           33         780         16         125         1.5         4         5         36         4         2610           34         723         706         10         0.4         4         4         38         4         337.           Class 4 PCI<											
48         796         4047         30         1.5         4         4         35         4         322.           32         780         514         10         0.1         4         4         36         4         120.           35         780         25         40         0.3         4         4         36         4         400.           35         780         25         45         2         4         4         36         4         400.           33         780         16         110         2         4         5         36         4         9397.           33         780         16         125         1.5         4         5         36         4         9397.           33         780         16         125         1.5         4         5         36         4         2610.           34         723         706         10         0.4         4         4         38         4         337.           Class 4 PCI<			-								
32         780         514         10         0.1         4         4         36         4         120.           35         780         25         40         0.3         4         4         36         4         400.           35         780         25         45         2         4         4         36         4         3480.           33         780         16         110         2         4         5         36         4         3480.           33         780         16         120         5.4         4         5         36         4         9397.           33         780         16         125         1.5         4         5         36         4         9397.           33         780         16         125         1.5         4         5         36         4         2610.           34         723         706         10         0.4         4         4         38         4         337.           Class 4 PCI<40andRB											
35											
33	3	400.293	4	36	4	4	0.3	40	25	780	35
33											
33											
34         723         706         10         0.4         4         4         38         4         337.           Class 4 PCI         40andRB         269.2         32         780         19         20         12.2         4         4         40         4         5425           32         780         514         20         0.5         4         4         40         4         601.           36         780         30         10         1.5         4         4         40         4         667.           36         780         30         15         1.5         4         4         40         4         667.           36         780         60         60         0.5         4         4         40         4         568.           36         780         60         65         0.1         4         4         40         4         568.           36         780         153         30         0.5         4         4         40         4         568.           48         780         4055         70         1.4         4         4         40         4         4											
Class 4 PCI<40andRB<5         269.2           32         780         19         20         12.2         4         4         40         4         5425           32         780         514         20         0.5         4         4         40         4         601.           36         780         30         10         1.5         4         4         40         4         667.           36         780         30         15         1.5         4         4         40         4         667.           36         780         60         60         0.5         4         4         40         4         568.           36         780         60         65         0.1         4         4         40         4         113           36         780         153         30         0.5         4         4         40         4         158.           48         780         4055         70         1.4         4         4         40         4         622           48         780         4055         75         0.3         4         4         40         4 <td></td>											
32         780         19         20         12.2         4         4         40         4         5425           32         780         514         20         0.5         4         4         40         4         601.           36         780         30         10         1.5         4         4         40         4         667.           36         780         30         15         1.5         4         4         40         4         667.           36         780         60         60         0.5         4         4         40         4         568.           36         780         60         65         0.1         4         4         40         4         113           36         780         153         30         0.5         4         4         40         4         568.           48         780         4055         70         1.4         4         4         40         4         622           48         780         4055         75         0.3         4         4         40         4         40.           48         780 <t< td=""><td>255653.</td><td>331.912</td><td>4</td><td>36</td><td>4</td><td>4</td><td></td><td></td><td></td><td></td><td>34</td></t<>	255653.	331.912	4	36	4	4					34
32         780         514         20         0.5         4         4         40         4 601.           36         780         30         10         1.5         4         4         40         4 667.           36         780         30         15         1.5         4         4         40         4 667.           36         780         60         60         0.5         4         4         40         4 568.           36         780         60         65         0.1         4         4         40         4 113           36         780         153         30         0.5         4         4         40         4 568.           48         780         4055         70         1.4         4         4         40         4 62.2           48         780         4055         75         0.3         4         4         40         4 64.           48         780         4056         10         1.5         4         4         40         4 1805		5425.95	4	40	4	4					32
36         780         30         15         1.5         4         4         40         4         667.           36         780         60         60         0.5         4         4         40         4         568.           36         780         60         65         0.1         4         4         40         4         113           36         780         153         30         0.5         4         4         40         4         568.           48         780         4055         70         1.4         4         4         40         4         62.2           48         780         4055         75         0.3         4         4         40         4         64.           48         780         4056         10         1.5         4         4         40         4         1805					4	4			514	780	
36         780         60         60         0.5         4         4         40         4         568.           36         780         60         65         0.1         4         4         40         4         113           36         780         153         30         0.5         4         4         40         4         568.           48         780         4055         70         1.4         4         4         40         4         622           48         780         4055         75         0.3         4         4         40         4         64.           48         780         4056         10         1.5         4         4         40         4         1805			4								
36         780         60         65         0.1         4         4         40         4         113           36         780         153         30         0.5         4         4         40         4         568.           48         780         4055         70         1.4         4         4         40         4         622           48         780         4055         75         0.3         4         4         40         4         64.           48         780         4056         10         1.5         4         4         40         4         1805											
36     780     153     30     0.5     4     4     40     4     568.       48     780     4055     70     1.4     4     4     40     4     622       48     780     4055     75     0.3     4     4     40     4     64.       48     780     4056     10     1.5     4     4     40     4     1805											
48     780     4055     70     1.4     4     4     40     4     622       48     780     4055     75     0.3     4     4     40     4     64.       48     780     4056     10     1.5     4     4     40     4     1805											
48         780         4055         75         0.3         4         4         40         4         64.           48         780         4056         10         1.5         4         4         40         4         1805											
48 780 4056 10 1.5 4 4 40 4 1805											
48 796 3002 70 1.6 4 4 40 4 71											
				40		4		70	3002	796	48
0 780 2003 15 1.1 4 4 41 4 1914			4	41	4	4		15	2003	780	
		174.022									
	4	348.044 174.022		41		4	0.2	60	2003	780	0
	2	11/4.022	1 4	41	4	4	0.1	00	2003	780	U

		PATER			. I AVEINER	DEFICIENCIE		ılı	11	
AGENCY_ CODE	RESERVATION _CODE	ROUTE_ NUMBE R	SECTION_ NUMBER	SECTION_ LENGTH			MSRIS_ PCI	MSRIS_ROADBED_ CONDITION_CODE		TOTAL COST
0	780	2003	80	0.2	4	4	41			
0	780	2003	90	0.2	4	4	41			
0	780 780	2004 2004	10 20	0.7	4	4	41	4		
0	780	2004	30	0.1	4	4	41	4		
0	780	2004	40	0.1	4	4	41	4		
0	780	2004	50	0.1	4	4	41	4	174.022	
0	780	2004	60	0.3	4	4	41	4		
0	780	2004	70	0.3	4	4	41	4		
0	780 780	2004 2005	80 10	0.1	4	4	41	4		
0	780	2005	15	1.1	4	4	41	4		
0	780	2005	20	0.2	4	4	41	4		
0	780	2005	30	0.1	4	4	41	4	174.022	
0	780	2005	40	0.1	4		41	4		
0	780	2005	50	0.4	4	4	41	4		
0	780	2005	60	0.5	4	4	41	4	0.01207	
0	780 780	2005 2005	70 80	0.1	4	4	41	4		
0	780	2005	90	0.1	4	4	41	4		
0	780	2006	10	0.3	4		41	4		
0	780	2006	20	0.2	4	4	41	4	348.044	
0	780		30	0.3	4		41			
0	780	2006	40	0.1	4		41	4		
0	780 780	2006 2006	50 60	0.2	4	4	41	4		
0	780	2009	10	1.2	4		41	4	+	
0	780	2009	20	0.1	4	4	41	4		
0	780	2009	30	0.2	4	4	41	4		
0	780	2009	40	0.2	4	4	41	4	348.044	
0	780	2009	50	6.2	4	4	41	4		
0	780	2012	10	0.6	4	4	41	4		
0	780 780	2017 2017	20 30	0.1	4	4	41	4		
0	780	2017	40	0.3	4	4	41	4		
0	780	2017	50	0.2	4	4	41	4		
0	780	2017	60	0.2	4	4	41	4	348.044	
0	780	2017	70	0.4	4		41	4		
0	780	2017	80	0.1	4	4	41	4		
0	780 780			0.1	4	4	41		174.022 174.022	
0	780		20		4				174.022	
0	780			0.9	4		41			
0	780	2018	35	0.3	4	4	41	4	400.293	
0	780		10	1	4					
0	780		10		4				1740.22	
0	780 796		10 50	12 1.8	4		41			
35	796		10	1.8	4					
36	780		10						361.095	
48	780		10	3.1	4		41			
48	780		15	2.9	4					
48	796		10	0.7	4		42			
48	796		10							
48 48	796 796		15 30	1.1 0.1	4		42			
48	780		10		4				400.275	
48	780		10			4	44		1111.88	
48	780	4063	10	0.8		4		4	355.8	
48	780		30	3.1	4	4			1378.73	
48	780		10							
48 48 48	780 780 780	4065 4065	30 40 50	0.9 2.6	4	4 4	44 44	4	400.275 1156.35 279.175	

				11220			DEFICIENCIE				
AGENCY_ CODE	RESERVATION _CODE	ROUTE_ NUMBE R	SECTION_ NUMBER		MSRIS_ ODE	_CLASS_C	MSRIS_SURFACE_ TYPE_CODE	MSRIS_ PCI	MSRIS_ROADBED_ CONDITION_CODE	MSRISD_ BIA_CTI	TOTAL COST
48	780		60			4		44	4		
48	780		10			4		44	4		
48	780 780	4067 4081	20 10			4		44	4		
0	780	2007	10			4		45	4		
0	780	2007	20			4		45	4		
0	780	2007	25	2.1		4	4	45	4	3654.46	
0	780		10			4	4	45	4	870.109	
32	780	513				4		45	4		
35 35	780 780	133 133	10 30			4		45 45	4		
48	796					4		45	4		
48	796	4014	15	1.9		4		45	4		
48	796	4014	20			4		45	4		
48	796			0.5		4	4	45	4		
48	796		15			4		45	4		
48	796	4017	20			4		45	4		
48	796 796	4017 4017	30			4		45 45	4		
48	796 796					4		45	4	1	
48	796	4028	15	1		4		45	4		
48	796	4028				4		45	4		
48	796	4028	40	1.4		4	4	45	4	300.65	
48	796	4028				4		45	4		
48	796	4030				4		45	4		
48	796 796	4030 4035	25 10	0.4 3.5		4		45 45	4		
48	796	4035	15			4		45	4		
33	780	607	10			4		45	4		
33	780	607	20	0.2		4	5	45	4		
33	780		30			4		45	4		
33	780	6331	60			4		45	4		
33	780	6331	70			4		45	4		
48	780 780	2015 3003	45 30	0.2		4		46 46	4		
48	780	3003	40			4		46	4		
48	780	4059	20			4		46	4		
34	796	49	40	2		4	5	48	4	679.5	
0	780	2025	10			4		49	4		
0	780					4		49		6004.4	
48 32	780 780					4		49 49	4		
32	780					4		49	4		
48	780					4		50	4		
48	796		10	4.4		4		50	4		
33	780					4		51		522.065	
48	780					4		52	4		
48	796 796		10			4		52 52	4		
48	796					4		52	4		
48	796					4		52	4		
48	796		30			4		52	4		
48	796	4003	10	1.9		4	4	52	4	2286.93	
48	796		50			4		52	4		
48	796		60			4		52	4		
48 32	796 780		90			4		52 54	4		
32	780					4		54	4		
32	780					4		54	4		
34	780		10			4		54	4		
34	780					4		54	4		
36	780		10			4		54		522.065	
36	780					4		54		174.022	
48	796	4005	10	2		4	4	54	4	2407.3	

768.825 45.225 1250.34 4219.9 2656.98 2188.1 1562.93 444.75 422.465 3306.41 1218.15 9223.16 1914.24 2262.28 152.573 1494.9 1257.08 577.575 67.95	MSRIS_ROADBED_CONDITION_CODE  4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		5 5 5	ODE 4	LENGTH	NUMBER	ROUTE_ NUMBE R	RESERVATION _CODE	AGENCY_ CODE
45.225 1250.34 4219.9 2656.98 2188.1 1562.93 444.75 422.465 3306.41 1218.15 9223.16 1914.24 2262.28 152.573 1494.9 1257.08 577.575 67.95	4 4 4 4 4 4 4 4 4 4 4	54 54 54 54	5 5		5.1	20			COLL
1250.34 4219.9 2656.98 2188.1 1562.93 444.75 422.465 3306.41 1218.15 9223.16 1914.24 2262.28 152.573 1494.9 1257.08 577.575 67.95	4 4 4 4 4 4 4 4 4	54 54 54	5				5068	780	32
4219.9 2656.98 2188.1 1562.93 444.75 422.465 3306.41 1218.15 9223.16 1914.24 2262.28 152.573 1494.9 1257.08 577.575 67.95	4 4 4 4 4 4 4 4	54 54		4	ł	30	5068	780	32
2656.98 2188.1 1562.93 444.75 422.465 3306.41 1218.15 9223.16 1914.24 2262.28 152.573 1494.9 1257.08 577.575 67.95	4 4 4 4 4 4 4 4	54	5	4		10 15	222 222	780 780	33
2188.1 1562.93 444.75 422.465 3306.41 1218.15 9223.16 1914.24 2262.28 152.573 1494.9 1257.08 577.575 67.95	4 4 4 4 4 4 4		5	4		20	222	780	33
444.75 422.465 3306.41 1218.15 9223.16 1914.24 2262.28 152.573 1494.9 1257.08 577.575 67.95	4 4 4 4 4		5	4		10	39	780	36
422.465 3306.41 1218.15 9223.16 1914.24 2262.28 152.573 1494.9 1257.08 577.575 67.95	4 4 4 4	54	5	4	1	13	39	780	36
3306.41 1218.15 9223.16 1914.24 2262.28 152.573 1494.9 1257.08 577.575 67.95	4 4 4	56	4	4	1	10	4066	780	48
1218.15 9223.16 1914.24 2262.28 152.573 1494.9 1257.08 577.575 67.95	4	58	4	4		10	703	796	34
9223.16 1914.24 2262.28 152.573 1494.9 1257.08 577.575 67.95	4	58	4	4		40	251	780	35
1914.24 2262.28 152.573 1494.9 1257.08 577.575 67.95		58 58	4	4		50 55	251 251	780 780	35 35
2262.28 152.573 1494.9 1257.08 577.575 67.95		58	4	4	1.1	130	8066	780	35
152.573 1494.9 1257.08 577.575 67.95	4	58	4	4	1.3	135	8066	780	35
1257.08 577.575 67.95	4	58	5	4		10	502	780	32
577.575 67.95	4	58	5	4	4.4	10	49	796	34
67.95	4	58	5	4		20	49	796	34
	4	58	5	4		35	49	796	34
22 075	4	58	5	4				796	34
	4	58 58	5 5	4		10 20		796 796	48
	4	60	3	4		50	4136	790	33
	4	60		4				780	33
	4	60	4	4	1.3	10		796	34
1289.78	4	60	4	4	2.9	20	7046	796	34
	4	60	4	4		10	4011	796	48
	4	60	4	4		13		796	48
	4	60	4	4		16 10	4011	796 796	48
	4	60	5	4		10	55	796	48 34
	4	62	4	4		15	57	780	32
	4	62	4	4		10	504	780	32
177.9	4	62	4	4	0.4	30	49	796	34
	4	62	4	4		30	4055	780	48
	4	62	4	4		50	4055	780	48
	4	62	4	4		10 10	4065 4087	780	48
	4	62 62	5	4		10	5114	780 780	48 32
	4	62	5	4		15	5114	780	32
	4	65	4	4				780	48
	4	65	4	4				780	48
	4	65		4				780	48
	4	65	4	4				780	48
	4	65 65	4 4	4		30 35		780 780	48
	4	66	4	4				780	32
	4	66	4	4				780	32
	4	66	4	4				780	32
		66		4				780	32
	4		4						
	4								
	4								
1218.15		66	4	4		210		780	32
	4	66	4	4		15		780	48
	4	66	4	4		15	4087	780	48
1156.35	4	70	4	4				780	33
5005.45	4			4					48
5005.45 730.15	4								
5005.45 730.15 128.85		75		4				796 796	48
730.15 128.85 665.725	4		)	4	0.1				36
	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	666 666 666 666 666 666 666 666 666	4 4 4 4 4 4 4 4 4 4 4 5 5	4 4 4 4 4 4 4 4 4 4 4 4	0.4 0.3 1.5 0.3 0.8 2.4 0.7 1.4 1.5 0.7 3.2 2.6 4.4 3.4 0.6	10 30 40 50 70 90 130 150 170 190 210 15 15 10 30	33 33 33 33 33 33 33 33 33 4055 4087 24 4178	780 780 780 780 780 780 780 780 780 780	32 32 32 32 32 32 32 32 32 32 32 32 32 3

				NEED 3.			DEFICIENCIE				
	RESERVATION CODE	R	SECTION_ NUMBER		MSRIS_ ODE	_CLASS_C	MSRIS_SURFACE_ TYPE_CODE	MSRIS_ PCI	MSRIS_ROADBED_ CONDITION_CODE	MSRISD_ BIA_CTI	TOTAL COST
48	780		12			4		85	4		
32	780	5 Class 4		5.8 298.1		4	5	86	4	1245.55	234089.1
48	780	4089				4	4	44	5	62.3038	234069.1
48	796	4017	10			4		45	5		
	Class 4 PCI=4			1.3							101.5438
32	780	502	20			4		58		51.9123	
32	780 780	33 2011	110 10			4		66 68	5		
0	780	2011	30			4		68	5		
0	780	2011	40			4	4	68	5	433.845	
0	780	2011	50	1		4		68	5		
0	780 780	2011 2011	60 70			4		68 68	5	61.9779	
0	780	2011	80			4		68	5		
0	780	2011	90			4		68	5		
0	780	2011	100	0.4		4	4	68	5	247.912	
0	780	2011	110	0.2		4		68		123.956	
0	780 780	2011	120 130			4		68 68		247.912 61.9779	
0	780	2011	140	0.1		4		68		61.9779	
0	780	2011	150			4		68		123.956	
0	780	2011	160	0.1		4	4	68	5	61.9779	
0	780	2011	170			4		68		185.934	
0	780	2011	180	0.2		4		68		123.956 123.956	
0	780 780	2011 2011	190 200	0.2		4		68 68	5		
0	780	2011	210			4		68	5		
0	780	2011	220	0.1		4		68	5		
0	780	2011	230			4		68	5		
0	780	2011	240			4		68 68	5 5		
0	780 780	2011 2011	250 260	0.1		4		68	5		
0	780	2011	270	0.1		4		68	5		
0	780	2011	280	0.2		4	4	68	5		
0	780	2011	290	0.1		4		68	5		
0	780 780	2011	300 310	0.1		4		68 68	5		
0	780	2011	320			4		68		123.956	
0	780					4		68		61.9779	
0	780	2011	340			4		68	5	123.956	
0	780		350			4	4	68	5	123.956	
34	Class 4 PCI=5 796	1-69anc 48		8.4 1.9		4	4	70	5	650.75	5134.099
34	796	48				4		70	5		
34	796	48				4		70	5	210.16	
34	796	48				4		70	5		
34	796	48				4		70	5		
34	796 796	48 48				4		70 70	5 5		
34	796	7120				4		70	5		
33	780	59				4	5	70	5	449.129	
34	796	7120				4		70	5		
36	780	9101	10			4		70		192.484	
32	780 780	2011 364	31 50			4		74 74	5	1177.58 525.4	
32	780	364				4		74		236.43	
36	780	9345	30			4		75	5	21.3871	
35	780	8027	22			4		78		61.9779	
35	780	8027	24			4		78		123.956	
35 35	780 780	8031 8031	10 30			4		78 78		743.735 1983.29	
35	780	8031	35			4		78		681.757	
33	780	16				4		80		4276.47	

			,	1000	TAVENIEN	DEFICIENCIE			0-	
AGENCY_ CODE	RESERVATION	ROUTE_ NUMBE R		SECTION_ LENGTH			MSRIS_ PCI	MSRIS_ROADBED_ CONDITION_CODE	MSRISD_ BIA_CTI	TOTAL COST
36	780		50	0.2	4	4	80			
36	780		64	0.4	4	4	80			
36	780 780		70 140	0.5	4	5	80 80			
36	780		10	3	4	5	80	5		
35	780	131	10	0.2	4	4	82	5		
33	780	221	20	0.5	4	5	82	5	0	
33	780	221	25	0.1	4	5	82	5		
33	780		40	0.1	4	5	82	5		
33	780	21	75	1.6	4	5	85	5		
32	780 780		10	0.9	4	4	86 86			
32	780	5080	10	0.6	4	4	86	5		
32	780	5080	16	0.1	4	4	86			
48	780		10	0.8	4	5	86			
	Class 4 PCI>			46.2		-				15759.06
36	780		20	0.1	4	4	30	6	62.3038	
36	780		25	0.2	4	4	30	6	124.608	
	<b>5</b> 0.5	Class 4		0.3				_	200.000	186.9114
0	796			0.5	4	4	68	7	309.889	200 0005
36	Class 4 PCI=	1	13	0.5	4	5	70	7	278.032	309.8895
35	780		10		4		98			
35	780		12	0.3	4	4	98	7		
35	780	8030	14	0.4	4	4	98	7	0	
	Class 4 PCI>		RB>=5	2.3						278.0322
32	780		10		5	4	0			
32	780		10	1	5	4	0	3		
32	780 780	551 552	10 10	0.8 2.7	5	4 4	0	4		
33	796		40	1.2	5	4	0			
35	780	806	10	0.1	5	4	0			
48	780	4082	10	0.2	5	4	10	4		
35	780	803	10	0.2	5	4	19	4		
48	780	4103	10	1.3	5	4	20	4		
35	780	291	10	0.7	5	4	22	4		
48	796 796		10 10	2.1	5	4	22	4		
48	780	4083	10	0.3	5	4	30	4		
48	780			0.2	5		30		42.3954	
0	780		10	0.8	5	4	31	4		
0	780	2016	20	0.2	5		31	4	182.05	
48	780		10		5		35			
48	780		26	0.8	5		35		169.581	
36 36			10 10	0.3	5		36 36			
36			30		5		36			
35	780		10		5				312.731	
	Class 5 PCI<			18		-				10328.48
48	780		10	2	5	4	40	4	1394.82	
48	780		10		5	4	40			
48	780		20	0.5	5	4	40		105.988	
48	780		22	4.4	5	4	40			
48	780 780		24 10	2.1	5	4	40			
48	780 796		20	4.2	5	4	40			
48	796		10		5		40			
48	796		15	0.2	5	4	40		169.581	
48	796		20		5	4	40			
48	780		10	0.3	5	4	44	4	170.625	
48	780		10		5		44			
48	780		10	0.6	5		44			
48	780		10	0.1	5		45		69.7411	
48	780	4061	20	0.3	5	4	45	4	209.223	

AGENCY_	RESERVATION	ROUTE_ NUMBE	SECTION	SECTION_	MSRIS_CLASS_C	MSRIS_SURFACE_	MSRIS_	MSRIS_ROADBED_	MSRISD_	TOTAL
CODE			NUMBER		ODE	TYPE_CODE	PCI			COST
48	780	4104	10	0.5	5	4	45	4	105.988	
48	796	4146	30	1	5	4	45	4	697.411	
32	780	363	20	0.1	5	5	45	4	50.2712	
48	780	4070	10	1.1	5	4	46	4	767.152	
48	780	4154	10	0.7	5	5	49	4	351.898	
48	780	4164	10	1.4	5	5	49	4	703.796	
48	796	4146	20	1.9	5	5	49	4	955.152	
48	780	4062	20	1.6	5	4	50	4	1115.86	
48	780	4062	25	2.7	5	4		4	572.337	
48	780	4077	10	3.8	5	4		4		
48	780	4109	10	0.4	5	4		4	278.964	
48	796	4100	10	0.2	5	4		4	139.482	
48	796	4100	20	0.4	5	4		4		
48	796	4100	25	0.7	5	4		4		
48	796	4121	10	4.8	5	4		4		
48	796	4123	10	3.3	5	4		4	2301.46	
36	780	391	10	0.5	5	4		4		
48	780	4104	20	0.5	5	4	54	4		
48	780	4104	25	1	5	4		4		
48	780	4150	10	4.9	5	5		4	1038.69	
48	780	4154	20	3.4	5	5		4	1709.22	
48	780	4062	10	1.7	5	5		4	360.36	
48	796	4146	10	0.1	5	5		4		
32	780	365	50	0.6	5	4	66	4		
32	780	365	60	1.2	5	4		4	836.893	
48	780	4155	10	0.7	5	5		4	148.384	
48	796	4145	10	2.1	5	5		4		
0	780	2316	12	0.2	5	4		4		
48	780	4155	20	1.1	5	5		4		
48	796	4145	20	0.2	5	5	75	4	40.35	
		Class 5	l	63						30909.95
32	780	501	10	0.3	6			3		
32	780	500	10	0.1	6	4		4		
34	796	1048	20	0.2	6	4	31	4	118	
	Class 6 PCI<			0.6	_				155.00:	325.072
32	780	515	10	0.3	6	4		4		
32	780	510	10	0.2	6	4		4		1
34	796	1042	10	0.4	6	4		4		
34	796	1042	15	0.2	6	4		4		
34	796	1042	20	0.4				4		
34	796	1042	25	0.2						
34	796	1042	30	0.1	6					
34	796	1042	32	0.5	6					
34	796	1042	34	0.4						
34	796	1042	36	0.1	6					
34	796			0.1	6	4	58	4	59	
		Class 6		2.9						1632.704
		Grand T	otal							1435885

### **BIBLIOGRAPHY**

- 1. 25 CFR 81 Indian Affairs Manual, Draft, October 2009.
- 2. Arizona DOT, 2008 Arizona State Airports System Plan (Draft), 2009
- 3. Arizona Multimodal Freight Analysis Study, 2009.
- 4. Arizona Railroad Inventory and Assessment, 2007.
- 5. BIADOT, Condition Rating of Service Levels for Roads (Paved/Unpaved), No Date.
- 6. Chinle Land Use Plan, 2006.
- 7. Crownpoint Land Use Plan, 2001.
- 8. Division of Community Development Website (WIND), 2009 CIP Project Priorities.
- 9. Division of Economic Development Website, Navajo Nation Land Area, 2008.
- 10. Division of Economic Development, 2005-2006 Comprehensive Economic Development Strategy of the Navajo Nation.
- 11. Division of Economic Development, FY2009 Project Priority Listing.
- 12. Federal Register, 25 CFR Part 170 Indian Reservation Roads Program; Final Rule, July 19, 2004.
- 13. FHWA, Highway Functional Classification Concepts, Criteria and Procedures.
- 14. FHWA, IRR Program Comprehensive Inventory Report, January 2008.
- 15. Fort Defiance Land Use Plan, 2004.
- 16. Indian Health Services, 2005 Navajo Community Health Status Assessment.
- 17. Indian Health Services, 2007 Navajo Area Health Service Profile.
- 18. Kayenta Land Use Plan, 2001.
- 19. Land Department, Title Section 03/31/98.
- 20. Navajo Department of Education, 2006-2007 School Year Statistics.
- 21. Navajo DOT, 1999-2007 Navajo Nation Crash Data.
- 22. Navajo DOT, 2009 Long Range Transportation Plan Questionnaire.
- 23. Navajo DOT, Origin-Destination Survey, 2001.
- 24. NRODOT, 2007 National Bridge Inventory
- 25. NRODOT, 2008 Navajo Region Road Inventory Field Data System (RIFDS).
- 26. NRODOT, Spreadsheet titled ROADS\_def\_maint\_N\_FY2008\_Q4, BIA-NRODOT.
- 27. P.L. 109-59; Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users.
- 28. Shiprock Land Use Plan, 2006.
- 29. St. Michaels Land Use Plan, 2005.
- 30. Transportation Research Board, Access Management Manual, 2003
- 31. Tuba City Land Use Plan, 2007.
- 32. U.S. Census Bureau, 2007 American Community Survey.
- 33. U.S. Census Bureau, Census 2000.
- 34. USDOI, Government Performance and Result Act, Road Maintenance, FY09, 3rd Quarter
- 35. USDOI-DOT, IRR Coding Guide and Instructions for the IRR Inventory, 10-19-07 Draft.
- 36. WHPacific Inc., Former Bennett Freeze Area (FBFA) Recovery Plan(Draft), 2008.

# RESOLUTION OF THE TRANSPORTATION AND COMMUNITY DEVELOPMENT COMMITTEE OF THE NAVAJO NATION COUNCIL

21st NAVAJO NATION COUNCIL-Second Year, 2008

AN ACTION RELATING TO COMMUNITY DEVELOPMENT; SUPPORTING AND APPROVING THE 43 YEAR PLAN-FINAL UPDATE OF THE NAVAJO NATION UPDATED FY 2009 TRIBAL TRANSPORTATION IMPROVEMENT PROGRAM

### BE IT ENACTED:

- 1. The Transportation and Community Development Committee, a Standing Committee of the Navajo Nation Council, hereby supports and approves the 43 Year Plan-Final Update of the Navajo Nation Updated FY 2009 Tribal Transportation Improvement Program, attached as Exhibit "A".
- 2. The Transportation and Community Development Committee further approves N15 road project as a High Priority Project in the amount of \$8 Million. (New language per discussion by TCDC.)

### CERTIFICATION

I hereby certify that the foregoing resolution was duly considered by the Transportation and Community Development Committee of the Navajo Nation Council at a duly called meeting at Window Rock, Navajo Nation, (Arizona), at which a quorum was present and the same was passed by a vote of 7 in favor and 0 opposed, this 5<sup>th</sup> day of August, 2008.

Vice Charrerson

Transportation and Community

Development Committee

Motion: Lorenzo Bedonie

Second: David Rico

# RESOLUTION OF THE TRANSPORTATION AND COMMUNITY DEVELOPMENT COMMITTEE OF THE NAVAJO NATION COUNCIL

21st NAVAJO NATION COUNCIL-Third Year, 2009

### AN ACTION

RELATING TO TRANSPORTATION; SUPPORTING AND APPROVING THE NAVAJO NATION TRIBAL TRANSPORTATION IMPROVEMENT PROGRAM (TTIP) FISCAL YEAR 2009 AND FISCAL YEARS 2010—2014 FOR THE INDIAN RESERVATION ROADS PROGRAM

### BE IT ENACTED:

The Navajo Nation hereby supports and approves the Navajo Nation Tribal Transportation Improvement Program (TTIP) Fiscal Year 2009 and the Tribal Transportation Improvement Program (TTIP) Fiscal Years 2010-2014 for the Indian Reservation Roads Program as found at Exhibit "A" attached and made a part hereto.

### CERTIFICATION

I hereby certify that the foregoing resolution was duly considered by the Transportation and Community Development Committee of the Navajo Nation Council at a duly called meeting at Window Rock, Navajo Nation, (Arizona), at which a quorum was present and the same was passed by a vote of 6 in favor and 0 opposed, this 18<sup>th</sup> day of August 2009.

Vice Chairperson

Tansportation and Community

Development Committee

Motion: Lorenzo Bedonie

Second: Leslie Dele

Navajo Nation Tribal Transportation improvement Program (TTIP)
Fiscal Year 2009 REVISED
Navajo Nation Council's Transportation and Community Development Committee
40 Year Plan- INDIAN RESERVATION ROADS PROGRAM

**EXHIBIT A** 8/14/2009

Fiscal Year 2009
Resolution: TCDCAP-xx-09

Route No.	Project No.	Project Name/Description	Commont	Length	Longth	Const F31	IRR F31		IRBP	dd	PLMD Agency	noy Project in	ot in ADT	T Safety	Pavement	NDOT	Flist Yr
					-	rpe Million (1)		ARRA	Funding	+	Supun		-		Ħ	-	Sch for Const
		118-464 to Bod Volley Descenaes solves	,								40.00	+	1		1	2	
A13	M13(8-2)4 *	Burnet Corn Work to Balance Week	. 1	0.00	18.35 RC		50.46 parda				WOLCON NOTCHE		91979		8 :	18	1202
M4/ NB10	M4(4-3)/NB10(1)2,4 *	DELITIC CORT WASH TO POSSOR WASH	<b>E</b>	8.88			4.68 partial				5	-	1	_		99	2003
N9066/ N59	N8066(2)/N59(2-1)2,4 *	NA1 to Mitalili W/ Nov sarety	3	7.40							ŧ	-				ž	2009
N15/US191/SR264	N15(2-3)2&4	SR264/N15/US191 Round-about	*	0.50	0.80 abs		0.00 partial				Fort			1194 Low	<80	N/A	2009
N48	N48(1)1,2,4 *	W9 Pueblo Pintade to New School	HW	2.23						81.60	Ensi				N/A	58	2004
2	001076000000000000000000000000000000000	McEmo Creek Bridge D-710 channel Rehab by State of Utsh	3	ě					:		1					***	2000
TOTO O	MEGS1(1)1 2 4 8	Intertion Canal Brds N228	: =	100					EV 08		Marthall			t	+	1.0 m	2001
	MSE(DIS oo	US160 to Sweet Worker	. 2	8 83							Mark	F				87	5006
964	#(a)ces	Brde N658 replacement	ABCO	100					¢n an		40 47 B	-				N/N	2006
905.8	N108/311.2.4 *	Tohatchi Bicentenniai Bridge N651	ACBGW	0.10	0.16 abr				\$0.70		P. Def	+	-		9	N/A	2001
821	N39(1-1)(2)1,2 *	Kinlichee Wash Brdg N628	AG	0.10					\$0.30		1		195			N/A	2001
N9010	N9010(1)2&4	1-40 to Pine Springs	AG	11.61						\$3.44	Ē				N/A	98	2009
US491	AC-GRIP-(NH)-491-1(11)59 & (8)68	US 491, North to Shiprock	_	4.50	7.24 abs		\$0.00 partial	\$8.00			Fort Def	Def Yes		000 High		N/A	2008
N7057	N7057(1)1,2 §	White Rock Wash Brdg N487	AG	0.10					\$0.40		East				N/A	57	2001
7808N	N8084(1)2,3 ***	Many Farms US191 to Windmill	ABCD	13.00	20.92 GDB		\$0.00 N/A			\$0.48	Chinis	ale Yes				42	2011
N4(5)/N8031	N4(5)/N8031(2)2&3 ***	Pinion to Hard Rocks	ABCD	11.30	18.19 GDG		\$0.00 pertial	\$2.00		\$0.76	Chlinle			. Pol	N/A	32	2012
N16/N162/N164	N16(6)/ N162(2)/N164(1)2.4 *	Namio Mountain w/ Chapter & School Access	*	5.74	9.24 GDS		\$0.00			\$1.00	Western	ben Yes	313	.a.	W	87	2003
N6486	N6486(1)1,2 §	Lower Laguna Creek Brdg Rehab - N308 & N314	ABCG	0.01	0.02 GBG		0.00 N/A		\$1.50		Wes	tom Yes	,			52	2013
N6720	N6720(1)1,2,3 §	Dinnebitto Wash Bridge N309 replacement	ABCs	0.01					\$0.50		Wes		63			20	2014
N6923	N6923(1)1,2 §	San Francisco Brdg Rehab - N318	ABG	10.0	0.02 abB		\$0.00 N/A		\$0.50		Western			t Low	N/A	41	2015
Neoto	N6910(1)1,2 §	Canyon Diable Brdg Rehab - N319	ABCG	0.01			10.00 N/A		\$0.65		Wea	bern Yes				41	2015
220	N20(3)(4)(5)2,4 ***	Gap to Coppermine	ABCDU	9.30			\$1.90 full	\$0.00		\$0.72	Wes				¥	88	2013
N2007	N2007(1-1)1,2,4 * N666	New Lands Rio Puerco Bridge Replace	4	1.10				\$0.00	\$3.00		A.N.				26	N/A	2002
N36	N36(5-2)(6-2)(7-2)4 §	ARRA Pavement rehabs US491 to SR371	BH	12.00	19.31 R		00.00	\$4.80			Nort					N/A	2009
9	NS(1-1)(2-1)4 §	ARRA Paymt rehabs US-49.1 to N5(3)Burnham	H	11.60	18.67 R	•	\$0.00	\$4.64			Northern	Yes		N/A High		N/A	2009
KZZI	MZZ1(1-1)4 §	ARRA Paymt rehabs US96 to Shorto School	H	4.50	7.24 R	•	00.00	\$2.56			Wes				90	3	2009
N15/N6	N15(4-2)/N6(1-2)4 S	ARRA Perent rehabs JCT N6 to greasewood various sections	2	14.00	22.E3		90'9	\$6.60			ă					M/A	2009
W4B/N11	N11(3-1)(4-2)/ N48(2-2)4 §	ARRA Parmit rehabs Borrege Pass South loop	E	19.40	31.22 R		000	\$7.78			East	-		t		N/A	2009
2	N9(11-1)(13-1)4 §		<b>.</b>	11.60	18.67 R		\$0.00	\$4.64			Enstern	sem Yes	N/A	'A Moderate	2	N/A	2009
NDOT Maintenance	Maintenance Projects ** (2)	Tribal Road Maintenance on Tribal Routes (4)	BC	Ą	N/A		00.08	\$4.10		_	Region Yes	V/N	A High	A/N	A/N	A/N	2009
	Methods of the control of the contro	Tother Meintenance Vand in Place & Dillice	8	8			8									1	9000
MDO! maimonance rares			ABCS	9.0			9.00	90.UE			Mogno		4		4/2	4/2	9007
Transportation Planning	Transportation Planning - NDOT	Jan.	N/A	900	0.00 Pin		0.94										
Area Wide	204(b) Transit *	Transit Facility Project	2				\$0.00 full				Reg	Region	N/A	A/N A/A	N/A		
BIA Direct Service	NRDOT Planning, Survey, Design, NEPA, R/W	Project Development -A/E Contracts & In-house for all projects	N/A	Various			\$2.00				Various						
Bit Direct Cambo	Sulmed modernosmen beteled toelono-now	Non Brolect Inherent Enderel Enerther	M/A	W/A			92 63				Badon	3					
		Modifications & balances due on FY08 Funded	v Ar	u Au							Í	ı					
BIA Direct Service	NRDOT Construction	Projects for on-going construction		Various			\$1.81				Vert	2					
BIA Direct Service	NHA Housing Access	Design & construction Access Roads		Various		•	00.00				Van						
BIA Direct Service	NRDOT Construction Monitoring	QA & Construction Management		Various		•	3.00	\$2.10			Vari						
P.L 93-638	NN Right-of-Way	Consents and ROW Document Processing		Various			10.14				Various						
P.L 93-638	NN Archeology HPD (4)	Administration under 638		Various		_	\$0.78				Various						
P.L 93-638	NN Archeology	Task Orders		7	_		10.50										
					Total Estimated Amount		12.50	\$51.20	58.98	\$8.00	\$1.47						
			Projected Func	ING AMOUNT DEEP	ected runding Amount based on PT-2006 Funding		0.00	847.00			T						
					8		90.00	Philade			7						

etton, ROW needs to be transferred to BIA. 00 Grade and Drain Construction
00 Grade, Drain, and Grand Construction
00 Grade, Drain, and Surfacing (Pressuent) Constit
00 Grade, Drain, and Surfacing (Pressuent) Constit
00 Grade, Drain, Barfacing (Pressuent) & Bridge O.
P. Pressuent Resurfacing
00 Brade, Drain, Barfacing (Pressuent), & Bridge O.
P. Pressuent Resurfacing
01 Bridge Reseastantion
02 Project Carry Over Item Prior Year TTIP
03 Bry-Intern Project
04 Project Carry Over Item Prior Year TTIP
05 Bry-Intern Prior
05 Bry-Internation Planning for Investry Updates ann Most Resultantion Planning for Investry Updates ann M. Read Relabsances Prior
05 Bridge Train from Grade Resurres
05 Bry-Internation Planning for Investry Updates ann M. Read Relabsances Prior
05 Bridge Stand From Grade Result Relabsances Prior
06 Bridge Stand From Grade Result Relabsances Prior
07 Bridge Stand From Grade Result Relabsances Prior
08 Bridge Stand Result Result Relabsances Prior
09 Bridge Stand Result Result Result Relabsances Prior
09 Bridge Stand Result Result Result Result Result Relabsances Prior
09 Bridge Stand Result Result Result Result Relabsances Prior
09 Bridge Stand Result Re NDOT Ranking:

NA Not Aplicable

NDOT Ranking Projects Moved from FY-08 to 2010 TTIP Special Funded Project, Moved up in Priority

Navajo Nation Tribal Transportation Improvement Program (TTIF)
Fiscal Year 2010 Final Update
Navajo Nation Council's Transportation and Community Development Committee
4/0 Year Plan- INDIAN RESERVATION ROADS PROGRAM

Resolution: TCDCAP-xx-09 Fiscal Year 2010 EXHIBIT A 8/14/2009

Accountant I Co Cita	AA-07									1					ļ	∦`	JI .	
Route No.	Project No.	Project Name/Description	Comment	Length Miles	Length kilometers	Const Type	Est. Cost Million (1)	Funding	ARRA	Funding Fu	HPP	Agency	Project in Inventory	Current	Safety	Pavement Rating	Ranking S	First Yr Sch for Const
	=======================================					Ħ				H						L	1 14	
N35	N35(0)3 4 8 88	LUKachukai Wash Bridge	AG	1.18	10.00	CDBs	\$4.00					Northern	Yes	North Car	Low	3 8	35	2003
CCN	N35(5)2;4	COLOR IN OTHER IT BEEL	Þ	0.02	10.90	GDBS	\$2.00	III				Normern		Manueri	Opdate	422	33	LOW
U\$162	BRF-0262(6)30	McElmo Creek Bridge D-710 channel Rehab by State of Utah	₹	0.01	0.02	adse	\$0.00	<b>*</b>		2		Northern	ž	1035		2	N/A	2007
US491	AC-GRIP-(NH)-491-1(11)59 & (8)68	US 491 North to Shiprock	H	6.00	9.66	GDS	\$0.00	partial				Northern	Yes	>10000	High	70	N/A	2008
N9345	N9345(2)2&4 *	Wide Ruins Access	СН	1.60	2.57	GDS	\$3.07	full				Ft. Def.	Yes	446	Moderate	N/A	42	2001
N31	N31(4)1,2,4 *	Navajo toward Mex Springs N31/N321 Jct w/75m Brdg	HA	5.24	8.43	GDBS	\$9.81	full				Ft. Def.	Yes	96	Low	N/A	N/A	2002
N9603	N9603(1)1,2 §	Crystal North Brdg N667	AG	0.10	0.16	GDB	\$0.15	Partial		\$0.22		Ft. Def.	Yes	55	High	<b>\50</b>	N/A	2001
N541	N541(1)1,2 §	West Coal Mine Wash Brdg N619	AG	0.10	0.16	GDB	\$0.15	Partial		\$0.42		Ft. Def.	Yes	108	High	<50	N/A	2001
N9054	N9054(1)1,2 § **	Steamboat Wash Brdg N645	ACG	0.10	0.16	GDB	\$0.30	Partial		\$0.32		Ft. Def.	Yes	258	High	<50	N/A	2001
N9402	N9402(1)1,2 §	Rio Puerco Brdg N656	ABCG	0.10	0.16	GDB	\$0.30	Partial		\$1.58		Ft. Def.	Yes	407	High	<b>\50</b>	N/A	2001
N9504	N9504(1)1,2 §	Fiquerdo Wash Brdg N660	ABDHW	0.10	0.16	GDBS	\$0.41	Partial		\$0.30		Ft. Def	Yes	166	High	31	N/A	2001
W108	N108(3)1,2,4 °	Tohatchi Bicentenniai Bridge N651	ACBGW	0.10	0.16	<b>GDBS</b>	\$0.00	Partial		\$0.70		R. Def	Yes	514	High	50	N/A	2001
N39	N39(1-1)(2)1,2 *	Kiniichee Wash Brüg N628	AG	0.10	0.16	GDBS	\$0.00	Partial		\$0.30		Pt. Def	Yes	195	HIGH	40	N/A	2001
N55	N55(2)2,4 *	Alamo to I-40	ABCHU	6.81	10.96	GDG	\$5.22	full				Eastern	Update	101	Low	<50	38	2001
N46	N46(1)1,2,4 *	N9 Pueblo Pintado to New School	WH	2.23	65'E	GDSB	\$1.44	Ì			\$1.60	Eastern	Update	204	LOW	N/A	58	2004
N21	N21(3)2&4 *	Red Lake to Kaibeto	HΑ	4.99	8.03	GDS	\$8.20	full				Western	Yes	275	Low	N/A	38	2004
W18/W162/W184	N16(6)/ N162(2)/N164(1)2,4 *	Navajo Mountain w/ Chapter & School Access	<b>È</b>	5.74	9.24	aps	\$2.00	Ē	\$10.00		\$1.00	Western	Yes***	313	<b>[</b>	\$	87	2008
N6486	N6486(1)1,2 §	Lower Laguna Creek Brdg Rehab - N308 & N314	ABCG	0.01	0.02	GBG	\$0.00	N/A		\$1.50		Western	Yes	475	Low	N/A	52	2013
N6720	N6720(1)1,2,3 §	Dinnebito Wash Bridge N309 replacement	ABCG	0.01	0.02	GBG	\$0.00	N/A		\$0.50		Western	Yes	43	High	N/A	50	2014
N6923	N8923(1)1,2 §	San Francisco Brdg Renab - N318	ABG	0.01	0.02	adb	\$0.00	N/A		\$0.50		Western	ř	*	54	N/A	41	2015
N6910	N8910(1)1,2 §	Canyon Diablo Brug Renab - N319	ABCG	0.01	0.02	GDB	\$0.00	N/A		\$0.65		Western	Yes	28		N/A	41	2015
N6732	N6732(1)1,2 *	Lower Dinnebito Brdg Rehab - N320	ABCG	0.01	0.02	GDGB	\$0.00	N/A		\$0.50		Western	Yes	. 28	Low	58.1	29	2004
N101	N2007(1-1)1.2.4 9 ***	New Lands Rio Puerco Bridge Repiace	ABCDU	0.60	1.77	GDSB	\$10.00		90.00	83.00		Nilanda	¥	188	# Low	8	N/A	2002
N35/N251	N35(2-1)4 8	APRA Pount robob	RH	18 10	20 13	D D			\$7.74			Northern	Voc	N/A	Mod (	N/A	N/A	2000
N141047N4017N4020	NA10401 1/01401701 1/01405001 1/4 8	ABBA Bound scholo NIII BB. 0				,							:		:			
	N102(1-1)/N104(1-1)/N105(1-1)/N106(1-		DAL	11.00	10.10	*	90.00		91.70				100	14074	. Taken	TATA	14774	2007
N102/N104/N105/N106	1)4 §	ARRA Pavmt rehabs Chinle	ВН	1.80	2.90	₽	\$0.00		\$0.75			Chinle	Yes	N/A	Med	N/A	N/A	2009
N55	N55(1-1)4 §	ARRA Paymt rehabs Alamo to I-40	ВН	7.50	12.07	R	\$0.00		\$3.00			Eastern	Yes	N/A	High	N/A	N/A	2009
N106	N106(1-1)4 §	ARRA Pavmt rehab Kayenta Housing Access	вн	0.50	0.80	R	\$0.00		\$0.20			Western	Yes	N/A	Med	N/A	N/A	2009
N7140/N7062	N7140(1-1)/N7062(1-1)4 §	ARRA Pavmt rehab I-40 frontage Rd & Bread Sprg School Acc	BH	17.40	28.00	Ħ	\$0.00		\$6.96			Eastern	Yes	N N	High	N/A	Z	2009
N474	N474(1-1)(2-1)2&4 §	ARRA rehab Ojo Encino north	ВН	1.80	2.90	R	\$0.00		\$0.54			Eastern	Yes	N/A	High	N/A	N/A	2009
N9031/N100	N9031(1-1)/N100(1)4 §	ARRA Pavmt rehab US264 to Toyei tribal police Academy & WR Gov Streets	на	3.80	6.12	R	\$0.00		\$1.52			Fort Def	Yes	N/A	High	N/A	N/A	2009
N12/N172	N12(14-2)(13-2)/N172(1-1)4 §	ARRA Pavmt rehabs 5mi south of N64 junction & Round Rock School Acc	ВН	7.00	11.27	R	\$0.00		\$2.80		C	Chinle/Northern	Yes	N/A	High	N/A	N/A	2009
NIS	N1E/4-2) 6	ARRA Pavmt rehab Greasewood to Cornfields various	на	8 60	13.87		\$0.00		\$3.44			Fort Dof	Vac	NIA	Mad	NIA	NIA	2000
N71	N71(1)(2)2&4 §	ARRA Bird Springs recon	ВН	2.50	4.02	GDS			\$1.50			Western	Yes	N/A	High	N/A	N/A	2009
NDOT Maintenance Yards	Maintenance Projects •• (4)	Tribal Maintenance	<b>B</b> C6	9.00	9	=	\$0. <b>0</b> 8		\$0,00			Redon	₹	*	<b>5</b>	\$	*	2008
Area Wide	204(b) Transit *	Transit Facility Project	ST				\$0.00	full				Region		N/A	N/A	N/A		
BIA Direct Corvins	NRDOT Planning, Survey, Design,	Project Development -A/E Contracts & In-house for all	N/A	Vortions			S											
With Milet Del 18ce	Non-project Related Transportation	Projecto	1472	THE STORES			0.000											
BIA Direct Service	Plaming	Non Project Inherent Federal Function	N/A	N/A			\$0.50											
_		Modifications & balances due on FY08 Funded Projects for	_															

	Legend and Comments
NDOT Ranking	ARRA Project
N/A Not Aplicable	Special Funded Project, Moved up in Priority
NDOT Ranking:	Projects Moved from FY-08/09 TTIP
Balance	
Projected Funding Amount based on FY-2008 Funding	
Total Estimated Amount	

BIA Direct Service
BIA Direct Service
BIA Direct Service
BIA Direct Service
P.L. 93-638
P.L. 93-638

NRDOT Construction
NHA Housing Access
NRDOT Construction Monitoring
NN Right-of-Way
NN Archaeology HPD <sup>(3)</sup>
NN Archaeology HPD <sup>(3)</sup>

on-going construction
Design & construction Access Roads
QA & Construction Management
Consents and ROW Document Processing

N N N N N N

\$2.00 \$0.00 \$3.00 \$0.14 \$0.78 \$1.00 \$57.04 \$57.03

Administration under 638

Non Project Inherent Federal Function

Modifications & balances due on FY08 Funded Projects for

GD Grade and Drain Construction
GDG Grade, Drain, and Gravel Construction
GDS Grade, Drain, and Surfacing (Pavement) Construction
RC Reconstruction

R Pavement Rehabilitation
R Pavement Rehabilitation
R Pavement Rehabilitation
CS Chip Sealing
GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction
PR Pavement Resurfacing
BR Bridge Reconstruction
BR Bridge Reconstruction
Proposed Orice Account Project
Proposed Orice Account Project
Proposed Gree Account Project
Proposed Gree Account Project
Project Carry Over from Prior Year TTIP
Bro-Judian Project
CY Project Carry Over from Prior Year TTIP
Bro-Judian Project
E Project Designed by School Consultant, BA perform Construction, ROW needs to be transferred to BIA.
Di Excholing Funds from other sources
Di Excholing Funds from other sources
Di May be used to supplement Road Maintenance Funding as authorized by TCDC
St Transportation Planning for Inventory Updates and other approved by TCDC
M Road Maintenance Project
Disc not include the 81.814 ± for road maintenance activities

(4) Tribal Road Maintenance

Navajo Nation Tribal Transportation Improvement Program (TIIP)

Fiscal Year 2011 Find Dipfate

Fiscal Year 2011 Find Dipfate

Navajo Nation Council's Transportation and Community Development Committee

40 Year Plan-INDIAN RESERVATION ROADS PROGRAM

				40 Y	ar Plan- INC	40 Year Plan-INDIAN RESERVATION ROADS PROGRAN	ATION ROA	DS PROGRA	Ę							
Fiscal Year 2011													_	EXHIBIT A 8/14/2009		
Route No.	Project No.	Project Name/Description	Comment	Length	Length	Const	Est. Cost Million (1)	IRR F31 Funding	IRRBP	Agency	Project in Inventory	ADT	Safety	Pavement Rating	NDOT Ranking	First Yr Sch for Const
						- 3.6									0	
N35	N35(9)2,4 * **	US160 to Sweet Water	н	6.82		CDBS	\$3.31	full		Northern	Update	422	NO.	N/A	29	2003
N55		Alamo to I-40	Hav	9.78		GDG	\$12.00	full		Eastern	Update	108	Low	NA	30	2004
NII		N9 to Mariano Lake	ACH	6.20		CDS	\$10.32	full		Eastern	Yes	186	Moderate	55	26	2004
N27		Nazlini North to Chinle	DW	4.20	6.76	CDS	\$8.00	full		Chinle	Yes	466	Moderate	30	33	2002
N6331/N6330	N6331(2)2&4/N6330(1)1,2,4 *	Trading Post Brdg Rehab - N310	ABG	2.29		GDGB	\$4.41	N/A	\$0.10	Western	Yes	56	Low	60.3	32	2004
609N		Kerly Street Tuba City	ACHU	1.20	1.93	GDS	\$2.05	full		Western	Update	1400	Moderate	40	47	2002
NIS	Maintenance Projects ** (2)	N15(4-1) pavement safety project	BD	N/A	N/A	M	\$8.00	[F]		Region	Yes	N/A	High	N/A	N/A	2006
Area Wide	204(b) Transit *	Transit Facility Project	SL				\$0.00	fall		Region		N/A	N/A	N/A		
		Various	BD	0.00	0.00	s	\$0.00	fall								
BIA Direct Service	NRDOT Planning, Survey, Design, NEPA, R/W	Project Development -A/E Contracts & In-house for all projects	V/V	Various			\$2.00			S						
BIA Direct Service	Non-project Related Transportation	Non Project Inherent Federal Function	V/N	A/N			\$0.50									
		Modifications & balances due on Previous Funded Projects														
BIA Direct Service	NRDOT Construction	for on-going construction		Varions			\$1.52									
BIA Direct Service	NHA Housing Access	Design & construction Access Roads		Various			\$0.00									
BIA Direct Service	NRDOT Construction Monitoring	QA & Construction Management		Varions			\$3.00									
P.T. 93-638	NN Right-of-Way	Consents and ROW Document Processing		Various			\$0.14									
P.T. 93-638	HPD <sup>(3)</sup>	Administration under 638		Various			\$0.78									
P.T. 93-638	NN Archeology	Task Orders		Varions			\$1.00									
					Total Estin	Fotal Estimated Amount	\$57.03		\$0.00							
			Projected Fur	ding Amount	Projected Funding Amount based on FY-2008 Funding	008 Funding	57.03									
						Balance	\$0.00									
		Ī														
		Projects Moved from FY-2010 TTIP	NDOT Ranking:	ing: Not Anticoble												
		Special Funded Froject, Moved up III Fronty		NDOT Ranking	5											
	Legend and Comments				p.											
	A ROW Needed		GD	Grade and Dr	GD Grade and Drain Construction	uc										
	B Environmental Assessment Needed		GDG	Grade, Drain,	GDG Grade, Drain, and Gravel Construction	nstruction										
	C Archeological Clearance Needed		GDS	Grade, Drain,	and Surfacing	GDS Grade, Drain, and Surfacing (Pavement) Construction	onstruction									
	D Surveying Data Needed		RC	RC Reconstruction	_											
	E Construction Easement Needed		~	R Pavement Rehabilitation	abilitation											
	F Design Completed		3 5	CS Chip Sealing	9	CS Chip Sealing										
	G Design Frans Nevision (vector)  H Design in Progress		acoro	OB Pavement Resurfacing	our facing (r a arfacina	vennenn), ex pri	age Construct	non.								
	I Under Construction		BR	BR Bridge Reconstruction	truction											
	J Eligibility to be determined			Proposed Pub	* Proposed Public Law 93-638 Project	Project										
	K Pending Request for Proposal		8	Proposed Force	** Proposed Force Account Project	ject										
	TS Transit Project		CY	Project Carry	CY Project Carry Over from Prior Year TTIP	or Year TTIP										
	U Utility Relocation Needed		901	§ Buy-Indian Project	oject											
	W Within Existing ROW		લ	Project Design	ed by School	£ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA.	V perform Co	struction, RC	W needs to be	transferred t	BIA.					
	¥ Major ROW, Utility, Archeolocial, etc., Problem	blem	€	Excluding Fur	(1) Excluding Funds from other sources	sources	;		0							
	Q Archeological Clearance is Questionable		શે ફ	May be used t	supplement	(2) May be used to supplement Road Maintenance Funding as authorized by LCDC	nce Funding	is authorized	y ICDC							
4	(:) Partially Funded ++ Critical Pavement Rehabilitation Work Needed	7	2 2	S I ransportation Planning for M Road Maintenance Project	n Planning for ance Project	\$5 Transportation Planning for Inventory Updates and other approved by LCDC M Road Maintenance Project	lates and othe	r approved by	ICINC							
Õ	QA Construction Work Quality Assurance		· 6	Does not inclu	te the \$134k +	(3) Does not include the \$134k + for road maintenance activities	enance activi	ie								

Fiscal Year 2012														I	EXHIBIT A 8/14/2009		
Route No.	Project No.	Project Name/Description	Comment	Length Miles	Length kilometers	Const Type	Est. Cost Million (1)	IRR F31 Funding	IRRBP Funding	HPP Funding	Agency	Project in Inventory	ADT Current	Safety Need	Pavement Rating	NDOT Ranking	First Yr Sch for Const
				;													
N35	N35(8)/N5045(1)1,2,4 * N203(2)1,2 *	US191 to Sweet Water Kinlichee Wash Brdg N629	ABCD	7.12	0.16	GDBS	\$10.22	full	\$0.34		Northern Ft. Def.	Update	422	Low	<50 N/A	32 N/A	2003
N9073	8	Blue Canyon Road w/ brdg N606	ABCDUQ	6.50	10.46	GDGB	\$12.47	full	\$0.24		Ft. Def.	Yes	452	Moderate	N/A	56	2012
N106	N106(1)2&4 §	Kayenta PHS Street- Wetherill Rd	ABCDU	2.40	3.86	GDS	\$3.95	full			Western	No	3106	High	20	32	2014
N4(5)/N8031	N4(5)/N8031(2)2&3	Pinion to Hard Rocks	ABCD	11.30	18.19	GDG	\$18.80	full		\$0.00	Chinle	Yes	?	Low	N/A	20	2012
N6731	N6731(1)1,2,3	Gun Club Road Bridge N307	ABHD	2.00	3.22	GBG	\$2.40	Partial	0.50		Western	Yes	102	Low	49	40	2004
N6310	N6310(1)1,2,3 §	Piute Canyon Bridge N323 rehab	ABCG	0.10	0.16	BR	\$0.15	Partial	\$0.40		Western	Yes	28	Moderate	>30	40	2025
Various	Maintenance Projects ** (2)	Region wide safety projects	BD	N/A	N/A	М	\$1.00	full			Region	Yes	N/A	High	N/A		2006
Area Wide	204(b) Transit *	Transit Facility Project	TS				\$0.00	full			Region		N/A	N/A	N/A		
	Chip Sealing	Various	BD	0.00	0.00	S	\$0.00	full									
	NRDOT Planning, Survey, Design, NEPA,	NRDOT Planning, Survey, Design, NEPA, Project Development -A/E Contracts & In-house for															
BIA Direct Service R/W		all projects	N/A	Various			\$1.65										

										nance Project	M Road Maintenance Project	-	ded	++ Critical Pavement Rehabilitation Work Needed	
						by TCDC	er approved by	pdates and oth	or Inventory U	ion Planning fo	\$\$ Transportation Planning for Inventory Updates and other approved	44		(!) Partially Funded	
						by TCDC	as authorized	nance Funding	t Road Mainter	to supplement	(2) May be used to supplement Road Maintenance Funding as authorized by TCDC	c		Q Archeological Clearance is Questionable	
									er sources	unds from othe	(1) Excluding Funds from other sources	0	blem	¥ Major ROW, Utility, Archeolocial, etc., Problem	
				to BIA.	e transferred	ROW needs to be transferred to BIA.	onstruction, RC	TA perform Co	Consultant, B	gned by School	£ Project Designed by School Consultant, BIA perform Construction,			W Within Existing ROW	
										Project	§ Buy-Indian Project			U Utility Relocation Needed	
								P	rior Year TTD	y Over from F	CY Project Carry Over from Prior Year TTIP	С		TS Transit Project	
									roject	rce Account Pi	** Proposed Force Account Project	J.		K Pending Request for Proposal	
									38 Project	blic Law 93-6	* Proposed Public Law 93-638 Project			J Eligibility to be determined	
										nstruction	BR Bridge Reconstruction	В		I Under Construction	
										esurfacing	PR Pavement Resurfacing	P		H Design in Progress	
							ction	ridge Constru	avement), & B	n, Surfacing (F	GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction	GDS		G Design Plans Revision Needed	
											CS Chip Sealing			F Design Completed	
										ehabilitation	R Pavement Rehabilitation			E Construction Easement Needed	
										OH.	MC Reconstruction			D 3m-veying Data Needed	
								Construction	1g (Pavement)	n, and Surfaci	GDS Grade, Drain, and Surfacing (Pavement) Construction	9 5		C Archeological Clearance Needed	
									Construction	n, and Gravel	GDG Grade, Drain, and Gravel Construction	9		B Environmental Assessment Needed	
									tion	rain Construc	GD Grade and Drain Construction	G		A ROW Needed	
										1		1		Legend and Comments	
									Not Aplicable. Project is not on ARC List	e. Project is no	Not Aplicable	N/A			
									1 ARC List	Not Aplicable. Project is on ARC List	Not Aplicable	N/A	Special Funded Project, Moved up in Priority		
											king:	NDOT Ranking:	Projects Moved from FY-2011 TTIP		
						_		\$0.00	balance						
								57.03	-2008 Funding	t based on F Y	Projected Funding Amount based on FY-2008 Funding	Projected F			
						\$1.48		\$57.03	Total Estimated Amount	Total Estin					
								\$0.50			various		Lask Orders	NN Archeology	F.L. 93-638
								\$0.78		ĺ	Various	l	Administration under 638	HPD "	P.L. 93-638
								\$0.14			Various		Consents and ROW Document Processing		P.L. 93-638
								\$3.00			Various		QA & Construction Management	tion Monitoring	BIA Direct Service
								\$0.00			Various		Design & construction Access Roads		BIA Direct Service
								\$1.00			Various		Projects for on-going construction		BIA Direct Service
													Modifications & balances due on Previous Funded		
								\$0.50			N/A	N/A	Non Project Inherent Federal Function		BIA Direct Service
														Non-project Related Transportation	
								\$1.65			Various	N/A	all projects		BIA Direct Service
												T	Project Development - A/E Contracts & In-house for	ming, Survey, Design, NEPA,	
							IIuf	\$0.00	S	0.00	0.00	BD	Various		
N/A	V/N	A/N		Region			IInj	\$0.00				ST	Transit Facility Project		Area Wide
N/A	High	N/A	Yes	Region			full	\$1.00	Z	N/A	N/A	BD	Region wide safety projects	ojects ** (2)	Various
>30	Moderate	28	Yes	Western		\$0.40	Partial	\$0.15	BR	0.16	0.10	ABCG	Piute Canyon Bridge N323 rehab		N6310
49	W0T	102	Yes	Western		0.50	Partial	\$2.40	GBG	3.22	2.00	ABHD	Gun Club Road Bridge N307	N6731(1)1,2,3	N6731
N/A	Low	?	Yes	Chinle	\$0.00		full	\$18.80	GDG	18.19	11.30	ABCD	Pinion to Hard Rocks	N4(5)/N8031(2)2&3	N4(5)/N8031
20	High	3106	No	Western			full	\$3.95	GDS	3.86	2.40	ABCDU	Kayenta PHS Street- Wetherill Rd	N106(1)2&4 §	N106

QA Construction Work Quality Assurance

(3) Does not include the  $\$134k \pm for\ road\ maintenance\ activities$ 

EXHIBIT A

Navajo Nation Tribal Transportation Improvement Program (TTIP)

Fiscal Year 2013 Final Update
Navajo Nation Council's Transportation and Community Development Committee

40 Year Plan- INDIAN RESERVATION ROADS PROGRAM

Fiscal Year 2013

														8/14/2009		
Route No.	Project No.	Project Name/Description	Comment	Length	Length	Const	Est. Cost	IRR	IRRBP	Agency	Project in	ADT	Safety	Pavement	NDOT	First Yr
				MILES	Milometers	43,00	(1) marriage	Summa	runung		тиченногу	marino	naaki	vanng		Sch for Course
N35	N35(5-1)4 §	US160 north to State Line	BD	2.80	4.51	~	\$1.80	[In]		Northern	Yes	318	Low	>50	25	2017
NII	N11(1)2,4 *	N9 to Mariano Lake	ACH	6.20		GDS	\$10.19	full		Eastern	Yes	415	Moderate	25	30	2003
N8095/N8081	N8095(1)/N8081(1)1,2&3 §	Chinle Valley Road	ABCD	1.00	1971	GDGB	\$2.14	[m]		Chinle	Yes	460	Low	N/A	43/22	2008
N26	N26(1)1,2 * **	Nazlini N27 to US191 Brdg N521	ABCD	7.00		GDB	\$8.90	Partial	\$0.38	Chinle	Yes	114	High	37	26	2015
N9073	N9073(2)2,4 §	Blue Canyon Road w/ brdg N606	ABCDUQ	09.9		GDGB	\$12.66	Partial		Ft. Def.	Yes	452	Moderate	N/A	99	2012
N6810	N6810(1)1,2	Corn Creek Bridge	ABCD	0.15		GB	\$0.93	[In]		Western	Yes	29	Low		18	2006
N6485	N6485(1)2,4	Kayenta Access US163 to US160 Wetherill Rd	ABCD	1.70		GDS	\$2.79	full		Western	Yes	2685	Low	55	22	2006
N4000/N3000	N4000 & N3000 Series	Chip Sealing	DW	15.50		cs	\$1.10	Įnj		NIIP	Yes	N/A	Low	>70	N/A	2002
Various	Maintenance Projects (2)	Region wide safety projects	BD	N/A	N/A	M	\$0.00	full		Region	Yes	N/A	High	N/A		2006
Area Wide	204(b) Transit *	Transit Facility Project under PL93-638	LS				\$0.00	full		Region		N/A	V/N	N/A		
N42	N42(1-1)4 §	Monument Valley Chip Seal South	DW	3.7		CS	\$2.38	full		Western	Yes	2013	Low	40	52	2002
N7	N7(3-1)/N7A(1-1)4	Chinle Streets Chip Seal	DW	2.46	3.96	cs	\$0.30	[In]		Chinle	Yes	17530	Low	>70	N/A	2002
N27	N27(4-2)4	Chinle Streets Chip Seal	DW	0.45		cs	\$0.05	full		Chinle	Yes	2580	Low	>20	N/A	2002
N16	N16(1-1)(2-1)4	Chip Sealing	DW	12.00		cs	\$2.00	full		Western	Yes	NA	NA	NA	39	2002
N12	N12D(1-1)4	Chip Sealing	DW	11.73	18.88	CS	\$2.14	full		Fort Def	Yes	N/A	N/A	N/A	N/A	2002
BIA Direct Service	NRDOT Planning, Survey, Design, NEPA, R/W	A/E Contracts & In-bouse for all projects		Various			\$2.00									
	Non-project Related	*														
BIA Direct Service	Transportation Planning	Non Project Inherent Federal Function	N/A	N/A			\$0.50									
		Modifications & balances due on Previous														
BIA Direct Service	NRDOT Construction	Funded Projects for on-going construction		Varions			\$2.22									
BIA Direct Service	NHA Housing Access	Design & construction Access Roads		Various			\$0.00									
BIA Direct Service	NKDO1 Construction Monitoring	INKDOI Construction Monitoring All Projects in construction, QA		Various			\$3.00									
P.L. 93-638	NN Right-of-Way	Consents and ROW Document Processing		Various			\$0.15									
P.L. 93-638	NN Archeology HPD (3)	Administration under 638		Various			\$0.78									
P.L. 93-638	NN Archeology	Task Orders		Various			\$1.00									
					Total Est	Total Estimated Amount	97		\$0.38							
			Projected	Funding Amor	Projected Funding Amount based on FY-2008 Funding	7-2008 Funding										
						Balance	\$0.00									
		Special Funded Project. Moved up in Priority	NDOT Ranking:	jā:												
			ΝA	Not Aplicable.	Not Aplicable, Project is on ARC List	3C List										
	Legend and Comments			Not Aplicable.	Not Aplicable, Project is not on ARC List	ARCList										
	A ROW Needed		G	Grade and Dra	GD Grade and Drain Construction	-										
	B Environmental Assessment Needed	72	GDG	Grade, Drain,	GDG Grade. Drain, and Gravel Construction	struction										
	C Archeological Clearance Needed		GDS	Grade, Drain,	and Surfacing	GDS Grade, Drain, and Surfacing (Pavement) Construction	struction									
	D Surveying Data Needed		BC	RC Reconstruction												
	E Construction Easement Needed		~	R Pavement Rehabilitation	pilitation											
	F Design Completed		8	CS Chin Sealing												
	C Design Diene Derricion Nooded		Susa	Crode Drain	Sumfacing (Boxes	CDSB Crede Drain Surfacing Bosomont) & Bridge Construction	Constantation									
	U Design is Description records		ara ara	DD Denoment Denombooks	ouriacing (raw	ment), & Dirig	e construction									
	n Design III rogress		41	ravelliellt nest	IIIac III g											
	I Under Construction		BK	BK Bridge Keconstruction	ruction											
	J Eligibility to be determined		16-	Proposed Publ	* Proposed Public Law 93-638 Project	roject										
	K Pending Request for Proposal		*	Proposed Forc	** Proposed Force Account Project	ž.										
	TS Transit Project		CY	Project Carry	CY Project Carry Over from Prior Year TTIP	r Year TTIP										
	U Utility Relocation Needed		900	§ Buy-Indian Project	nject											
	W Within Existing ROW		32	Project Design.	ed by School Co	£ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA.	verform Constr	uction, ROW	needs to be tra	ansferred to B	SIA.					
	¥ Major ROW, Utility, Archeolocial, etc., Problem	ıl, etc., Problem	€	Excluding Fun	(1) Excluding Funds from other sources	ources										
	Q Archeological Clearance is Questionable	ionable	<u>6</u>	May be used to	supplement Re	(2) May be used to supplement Road Maintenance Funding as authorized by TCDC	e Funding as a	uthorized by	CDC							
	(i) Fartially Funded  11 Critical December Debabilitation Work Mooded	Work Needed	2	M Dood Mointenance Preject	n Planning for I	\$5 Transportation Planning for Inventory Updates and other approved by TCDC M Bood Meintanenes Project	ies and other aj	proved by 10	) (1)							
	OA Construction Work Onality Assurance	Tance	6	Does not include	le the \$134k + f	(3) Does not include the \$134k + for road maintenance activities	nance activities									
	·															

EXHIBIT A

2004 2005 2009 2002 2013

Fiscal Year 2014

a Wide 204(b) Transit *	)03 N3003(1)(2)(3)(4)(5)(6)4	121/N4123 N4121/N4123(1)4	ious Maintenance Projects (2)	0 N20(3)2,4	9 N619(1)2,4¥ §	N8066(3)1,2,4	N7(7)2,4 *	N5001(1)1,2,4 w/N241		roject No.	
_				G		N	S			P	
Transit Facility Project under PL93-638	Chip Sealing	Chip Sealing	Region wide safety projects	Gap to Coppermine	Colorado Street Tuba City	N41 to Kitsilli	Spider Rock Jct. to Agency Line	Newcomb to Toadlena		Project Name/Description	
TS	BDW	BDW	BD	ABCDU	ABCDU	ABCD	ABCD	ABDU		Comment	
	24.00	7.87	N/A	4.65	2.00	7.00	8.40	6.10		Length	
	38.62	12.67	N/A	7.48	3.22	11.27	13.52	9.82	kilometers	Length	
	CS	CS	М	GDG	GDS	GDBP	GDS	GDSB	Type	Const	
\$0.00	\$2.88	\$0.94	\$0.00	\$7.64	\$3.96	\$13.43	\$5.78	\$11.73		Est. Cost	
full	full	full	full	full	full	full	full	full	Funding	IRR	
									Funding	IRRBP	
Region	Low	Low	Region	Western	Western	Chinle	Chinle	Northern		Agency	
			Yes	Yes	Update	Yes	Yes	Update	Inventory	Project in	
N/A	2017	2017	N/A	475	842	97	190	117	Current	ADT	
N/A			High	Low	Moderate	Low	Low	Low	Need	Safety	
N/A			N/A	N/A	30		55	N/A	Rating	Pavement	8/14/2009
	N/A	N/A		68	47	26	29	43	Ranking	NDOT	
				1					100		

Navajo Nation Tribal Transportation Improvement Program (TTIP)

Fiscal Year 2015 Final Update
Navajo Nation Council's Transportation and Community Development Committee

40 Year Plan- INDIAN RESERVATION ROADS PROGRAM

Fiscal Year 2015

EXHIBIT A

Route No.	Project No.	Project Name/Description	Comment	Length	Length	Const	Est. Cost	IRR	IRRBP	Agency	Project in Inventory	ADT	Safety	Pavement	NDOT	Ü
						246		9	4					9	9	1
N7	N7(4-1)2,4	Sawmill to Fluted Rock	D	5.60		GDS	\$10.74	full		Ft. Def.	Yes	246	Low	N/A	25	
N31	N31(3)2,4 *	Navajo to N30/N31 Jct.	ABHU	2.51		CDS	\$5.76	ĮnJ		Ft. Def.	Yes	09	Low	N/A	30	
N3002	N3002(1)(2)(3)4	Chip Sealing	BDW	7.85		SO	\$0.94	IInJ		MIIP	Yes	2017	Low	20	N/A	
N368	N368(1)1,2,4 *		ABCD	2.90		GDSB	\$7.77	full		Northern	Yes	488	Low	N/A	21	
N5001	NS001(1)1,2,4 w/N241	ıa	ABDU	6.10		GDSB	\$11.73	full		Northern	Update	111	Low	N/A	43	
N20	N20(4)2,4	Gap to Coppermine	ABCDU	4.65	7.48	GDG	\$7.64	ImJ		Western	Yes	475	Low	N/A	74	
N25	N25(4)2,4 §	Cottonwood to Salina T.P.	ABCDU	3.20		GD	\$5.26	IInJ		Chinle	Yes	264	Low	55	18	
Various	Maintenance Projects	Region wide safety projects	BD	N/A	N/A	M	\$0.00	IInJ		Region	Yes	V/N	High	N/A		
Area Wide	204(b) Transit *	Transit Facility Project under PL93-638	LS				\$0.00	full		Region		N/A	N/A	N/A		
BIA Direct Service	NRDOT Planning, Survey, Design, NEPA, R/W	A/E Contracts & In-house for all projects		Varions			\$2.73									
	Non-project Related Transportation															
BIA Direct Service	Planning	Non Project Inherent Federal Function	N/A	ΝA		_	\$0.50	_								
		Modifications & balances due on Previous														
BIA Direct Service	NRDOT Construction	Funded Projects for on-going construction		Various				_								
BIA Direct Service	NHA Housing Access	Design & construction Access Roads		Various			\$2.00									
BIA Direct Service	NRDOT Construction Monitoring	All Projects in construction, QA		Various			\$4.00									
P.L. 93-638	NN Right-of-Way	Consents and ROW Document Processing		Various			\$0.14									
P.L. 93-638	NN Archeology HPD	Administration under 638		Various			\$0.78									
P.L. 93-638	NN Archeology	Task Orders		Various			\$1.00									
					Total Est	otal Estimated Amount	• /		\$0.00							
			Projected Fu	mding Amoun	t based on F1	Projected Funding Amount based on FY-2008 Funding	61.00									
						Balance	\$0.00									
	A ROW Needed		GD	GD Grade and Drain Construction	nin Construct	ion				NDOT Ranking:	ng:					
	B Environmental Assessment Needed		GDG.	GDG Grade, Drain, and Gravel Construction	and Gravel C	onstruction				N/A	Not Aplicable, Project is on ARC List	. Project is or	ARC List			
	C Archeological Clearance Needed		CDS	Grade, Drain,	and Surfacing	GDS Grade, Drain, and Surfacing (Pavement) Construction	onstruction			N/A	Not Aplicable. Project is not on ARC List	. Project is no	ot on ARC Lis			
	D Surveying Data Needed		RC	RC Reconstruction	,											
	E Construction Easement Needed		×	R Pavement Rehabilitation	abilitation											
	F Design Completed		CS	CS Chip Sealing												
	G Design Plans Revision Needed		GDSB	Grade, Drain,	Surfacing (Pa	GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction	dge Construct	ion								
	H Design in Progress		PR	PR Pavement Resurfacing	urfacing											
	I Under Construction		BR	BR Bridge Reconstruction	truction											
	J Eligibility to be determined		- T	* Proposed Public Law 93-638 Project	ic Law 93-63	8 Project										
	K Pending Request for Proposal		**	** Proposed Force Account Project	e Account Pr.	oject										
J	TS Transit Project		CY.	Project Carry	Over from Pa	CY Project Carry Over from Prior Year TTIP										
	U Utility Relocation Needed		son (	§ Buy-Indian Project	oject			:								
	W Within Existing KOW	:	** {	Project Design	ned by School	* Project Designed by School Consultant, BIA perform Construction, KOW needs to be transferred to BIA.	A perform Con	struction, KC	W needs to b	e transferred t	o BIA.					
	* Major KOW, Unity, Archeologia, etc., Problem	E., Froblem	≘ €	(1) Excluding Funds from other sources	nds from othe	(1) Excluding Funds from other sources	Perudina o	I bearing the conference of	Odot.							
	C Archeological Clearance is Questionals	aro	. <b>33</b>	May be used a Frontroptotion	o supplement a Plonning for	(z) May be used to supplement road Maintenance Funding as aumorized by 1007 66 Transportation Diamine for Internation Undeter and other commenced by TCDC	nce runding a	s aumorized	oy ICDC							
*	(;) Lanuary Funces ++ Critical Payement Rehabilitation Work Needed	·k Needed	Ž	M Road Maintenance Project	ance Project	I memory of	iates and other	approved by	7							
	TT CHILDREN A TOMORIN AND MINISTER TO THE	nanaar w	:	Motor cramers	and a value											

Navajo Nation Tribal Transportation Improvement Program (TTIP)
Fiscal Year 2016 Final Update
Navajo Nation Council's Transportation and Community Development Committee
40 Year Pian- INDIAN RESERVATION ROADS PROGRAM

	NDIAN RESERVATION ROADS PROGRAM	

BIA Direct Service RIA Direct Service		Area Wide	Various	N20	N5037/N5045/N351	N9652	N474	Route No.	Fiscal Year 2016
NRDOT Planning, Survey, Design, NEPA, RW  Non-project Related Transportation Planning NRDOT Construction NRD		204(b) Transit *	Maintenance Projects	N20(5)2,4	N5037/N351(1)1,2,4	N9652(1)1.2.3 *	N474(4)1.2.4 8	Project No.	
A/E Contracts & In-house for all projects  Non Project Inherant Federal Function Modifications & balances due on Previous Funded Projects for on-going construction Design & construction Access Roads  All Projects in construction, QA Consents and ROW Document Processing Administration under 638  Task Orders  Special Funded Project, Moved up in Priority  eeded  ded  ded  ocial, etc., Problem uestionable tion Work Needed	4	Transit Facility Project under PL93-638	Region wide safety projects	Gap to Coppermine	Emmanuel Mission/ N228	SR371 to Whiterock	Annache Corner to N46	Project Name/Description	
Projected  GEDS  GEDS  B  B  C  C  C  C  C  C  C  C  C  C  C		TS	BD	ABCDU	ABH	ABCD	ADII	Comment	
			N/A	9.30	5.82	12.90	5.40	Length Miles	
Total Estit It based on FY:  It based on			N/A	14.97	9.37	20.76	8.69	Length kilometers	
Total Estimated Amount Seed on FY-2008 Funding Balance Balance Balance Balance Balance Fracing (Pavement), & Br cing facing (Pavement), & Br cing fation fat			M	GDG	GDBS	GDBG	GDSR	Const Type	
\$1.00 \$0.50 \$1.00 \$1.00 \$0.71 \$0.74 \$0.78 \$0.78 \$0.79 \$0.29		\$0.00	\$0.00	\$17.84	\$11.16	\$19.35	\$7.68	Est. Cost Million (1)	
ion  struction, RO struction, RO struction, RO struction, RO sauthorized 1		full	full	full	Partial	full	full	IRR Funding	
W needs to be					\$0.80			HPP Funding	
NDOT Ranking: N/A No N/A No NO	C	Region	Region	Western	Northern	Eastern	Kastern	Agency	
not Aplicable. Project is on ARC List Not Aplicable. Project is not on ARC List			Yes	Yes	Update	Yes	Ves	Project in Inventory	
Project is on		N/A	N/A	134	167	143	352	ADT Current	
on ARC List		N/A	High	Low	Low	Low	Low	Safety Need	
		N/A	N/A	A/N	111	55 (5	\sh 620	Pavement Rating	EXHIBIT A 8/14/2009
				29	26	20	23	NDOT Ranking	
			200	201	200	200	200	First Sch for	

# Navajo Nation Tribal Transportation Improvement Program (TTIP) $\,$

Fiscal Year 2017 Final Update

Navajo Nation Council's Transportation and Community Development Committee

EXHIBIT A

# 40 Year Plan- INDIAN RESERVATION ROADS PROGRAM

Fiscal Year 2017

												1	6/14/2000		
													OUT#170		
Route No.	Project No.	Project Name/Description	Comment	Length	Length	Const	Est. Cost	IRR	Agency	Project in	ADT	Safety	Pavement	NDOT	First Yr
				Miles	kilometers	Type	Million (1)	Funding		Inventory	Current	Need	Rating	Ranking	Sch for Const
N71	N71(3)2&3	Birdsprings to N15 & Little Singer Acc	ABCD	7.50	12.07	SOS	\$12.33	full	Western	Yes	54	Moderate		æ	2006
N46	N46(2)2,4	N9 Pueblo Pintado to Councelor	ABCD	6.55	10.54	GDSB	\$10.77	full	Eastern	Update	204	Moderate	22	22	2004
N35	N35(7)1,2,4 *	US191 to Sweet Water	ΑD	96.9	11.19	CDBS	\$11.43	full	Northern	Update	218	Low	22	22	2002
N8084	N8084(1)2,3	ndmill	ABCD	6.50	10.46	SDG	\$9.75	full	Chinle	Yes	339	Low	N/A	38	2011
Various	Maintenance Projects	Region wide safety projects	BD	N/A	N/A	M	\$0.00	[In]	Region	Yes	N/A	High	N/A		2006
Area Wide	204(b) Transit *	Transit Facility Project	LS				\$0.00	EII	Region		N/A	N/A	N/A		
	Chip Sealing	Various	BD	0.00	00.0	S	\$0.00	[In]							
	NRDOT Planning, Survey,														
BIA Direct Service	Design, NEPA, R/W	A/E Contracts & In-house for all projects		Varions			\$2.00								
	Non-project Related														
BIA Direct Service	Transportation Planning	ral Function	N/A	N/A			\$0.50								
		Modifications & balances due on Previous													
BIA Direct Service	NRDOT Construction	Funded Projects for on-going construction		Varions			\$1.00								
BIA Direct Service	NHA Housing Access	Design & construction Access Roads		Varions			\$0.00								
BIA Direct Service	NRDOT Construction Monitoring All Projects in construction	g All Projects in construction		Varions			\$3.00								
P.L. 93-638	NN Right-of-Way	Consents and ROW Document Processing		Various			\$0.14								
P.L. 93-638	NN Archeology HPD	Administration under 638		Varions			\$0.78								
P.L. 93-638	NN Archeology	Task Orders		Various			\$0.50								
				L	<b>Fotal Estimated Amoun</b>	ted Amount	\$52.20								
		Proje	Projected Funding Amount based on FY-2008 Funding	Amount bas	sed on FY-26	108 Funding	61.00								
						Balance	\$8.80								

Legend and Comments

Special Funded Project, Moved up in Priority

A ROW Needed

B Environmental Assessment Needed

C Archeological Clearance Needed

E Construction Easement Needed D Surveying Data Needed

F Design Completed

G Design Plans Revision Needed

GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction

PR Pavement Resurfacing BR Bridge Reconstruction

GDS Grade, Drain, and Surfacing (Pavement) Construction

R Pavement Rehabilitation

RC Reconstruction CS Chip Sealing

GDG Grade, Drain, and Gravel Construction

**GD** Grade and Drain Construction

H Design in Progress

I Under Construction

J Eligibility to be determined

K Pending Request for Proposal

U Utility Relocation Needed TS Transit Project

W Within Existing ROW

¥ Major ROW, Utility, Archeolocial, etc., Problem

Q Archeological Clearance is Questionable

++ Critical Pavement Rehabilitation Work Needed (!) Partially Funded

NDOT Ranking:

Not Aplicable. Project is not on ARC List N/A

N/A Not Aplicable. Project is on ARC List Project is already listed on prior year

£ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA.

(1) Excluding Funds from other sources

CY Project Carry Over from Prior Year TTIP

§ Buy-Indian Project

\* Proposed Public Law 93-638 Project \*\* Proposed Force Account Project (2) May be used to supplement Road Maintenance Funding as authorized by TCDC \$\$ Transportation Planning for Inventory Updates and other approved by TCDC M Road Maintenance Project

Navajo Nation Tribal Transportation Improvement Program (TTIP)

Fiscal Year 2018 Final Update

Navajo Nation Council's Transportation and Community Development Committee

40 Year Plan- INDIAN RESERVATION ROADS PROGRAM

								\$8.80	Balance						
								§ 61.00	7-2008 Fundin	t based on FY	Projected Funding Amount based on FY-2008 Funding	Projected F			
								ıt \$52.20	otal Estimated Amoun	Total Estin					
								\$0.50			Various		Task Orders	NN Archeology	P.L. 93-638
						I.		\$0.78			Various		Administration under 638	NN Archeology, HPD	P.L. 93-638
								\$0.14			Various		Consents and ROW Document Processing	NN Right-of-Way	P.L. 93-638
								\$2.50			Various		NRDOT Construction Monitoring   All Projects in construction, QA	NRDOT Construction Monitoring	BIA Direct Service
								\$0.00			Various		Design & construction Access Roads	NHA Housing Access	BIA Direct Service
								\$0.50			Various		Funded Projects for on-going construction	NRDOT Construction	BIA Direct Service
													Modifications & balances due on Previous		
								\$0.50			N/A	N/A	Non Project Inherent Federal Function	Transportation Planning	BIA Direct Service
														Non-project Related	
								\$1.66			Various		A/E Contracts & In-house for all projects	NEPA, R/W	BIA Direct Service
													•	NRDOT Planning, Survey, Design,	
							full	\$0.00	S	0.00	0.00	BD	Various	Chip Sealing	
		N/A	N/A	N/A		Region	full	\$0.00				TS	Transit Facility Project	204(b) Transit *	Area Wide
2006		N/A	High	N/A	Yes	Region	full	\$0.00	M	N/A	N/A	BD	Region wide safety projects	Maintenance Projects	Various
2010	25	20	Moderate	672	Yes	Western	full	\$0.13	GDS	0.32	0.20	ABCD	Dennehotso School Access	N6461(1)2&4	N6461
2013		N/A	Low	134	Yes	Western	full	\$17.84	GDG	14.97	9.30	ABCDU	Gap to Coppermine	N20(6)2,4	N20
2004	33	30	Moderate	386	Yes	Chinle	full	\$10.17	GDS	8.53	5.30	DW	Nazlini North to Chinle	N27(2-3)2&4	N27
2003	No Data	26	Moderate	3545	Yes	Ft. Def.	full	\$10.83	GDS	10.61	6.59	BCDW	SR264 to Cornfields- Sunrise	N15(2-2)2&4	N15
2004	16	55	Moderate	204	Update	Eastern	full	\$6.66	GDSB	6.52	4.05	ABCD	N9 Pueblo Pintado to Councelor	N46(3)2,4	N46
Sch for Const	Ranking	Rating	Need	Current	Inventory		Funding	Million (1)	Type	kilometers	Miles				
First Yr	NDOT	Pavement	Safety	ADT	Project in	Agency	IRR F31	Est. Cost	Const	Length	Length	Comment	Project Name/Description	Project No.	Route No.
		8/14/2009													
		EXHIBIT A													Fiscal Year 2018
					1										

Special Funded Project, Moved up in Priority

Y Major ROW. Utility, Archeolocial, etc., Problem Q Archeological Clearance is Questionable () Partially Funded ++ Critical Pavement Rehabilitation Work Needed	U Utility Relocation Needed W Within Existing ROW	K Pending Request for Proposal TS Transit Project	I Under Construction J Eligibility to be determined	H Design in Progress	G Design Plans Revision Needed	F Design Completed	E Construction Easement Needed	D Surveying Data Needed	C Archeological Clearance Needed	B Environmental Assessment Needed	A ROW Needed	I orand and Commont
Excluding Funds from other source:     (2) May be used to supplement Road Maintenance Funding as authorized by TCD0     (\$\$ Transportation Planning for Inventory Updates and other approved by TCDC     M Road Maintenance Project	§ Buy-Indian Project  £ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA  £ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA  £ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA  £ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA  £ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA  £ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA  £ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA  £ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA  £ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA  £ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA  £ Project Designed by BIA  £ Project Designed	** Proposed Force Account Project CY Project Carry Over from Prior Year TTIP	BR Bridge Reconstruction  * Proposed Public Law 93-638 Project	PR Pavement Resurfacing	GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction	CS Chip Sealing	R Pavement Rehabilitation	RC Reconstruction	GDS Grade, Drain, and Surfacing (Pavement) Construction	GDG Grade, Drain, and Gravel Construction	GD Grade and Drain Construction	
CDK DC	needs to be transferred to BIA.								N/A Not Aplicable. Project is not on ARC List	N/A Not Aplicable. Project is on ARC List	NDOT Ranking:	

# Navajo Nation Tribal Transportation Improvement Program (TTIP) Fiscal Year 2019 Final Update

Navajo Nation Council's Transportation and Community Development Committee

# Fiscal Year 2019

Sch for Const Ranking NDOT 18 **EXHIBIT A** 8/14/2009 Pavement N/A N/A N/A Low
Low
High
N/A Moderate Safety Need Current ADT 339 204 N/A N/A Project in Inventory Yes Yes Update Yes 40 Year Plan- INDIAN RESERVATION ROADS PROGRAM Western Western Agency Eastern Chinle Est. Cost IRR F31
Million (1) Funding [In] \$0.50 \$0.00 \$2.14 \$0.14 \$0.78 \$0.00 \$52.20 \$15.90 \$9.75 \$6.53 \$14.96 \$0.00 \$0.00 \$0.50 \$1.00 Total Estimated Amount Const Type GBG GBG GDS Length 17.06 3.78 12.55 N/A 0.00 Various
Various
Various
Various
Various
Various 10.60 6.50 2.35 7.80 Various 0.00 N/A N/A ABCD ABCD ABCD X TS BD A/E Contracts & In-house for all projects Many Farms US191 to Windmill Grandfalls Bridge toward N15 Shonto to Betatakin Region wide safety projects Project Name/Description N46(2)/N474 to Counselor Fransit Facility Project Various NRDOT Planning, Survey, Design, NEPA, R/W N8084(2)2,3 N70(1)1,2,3/N6910(1)2,3 N221(2)2,4 \*\*\* Maintenance Projects Chip Sealing Project No. N46(4)2,4 BIA Direct Service BIA Direct Service P.L. 93-638 **BIA Direct Service** BIA Direct Service BIA Direct Service

Area Wide

N8084

2004 2011 2006 2007 2006

Legend and Comments

P.L. 93-638 P.L. 93-638

Special Funded Project, Moved up in Priority

A ROW Needed

B Environmental Assessment Needed

C Archeological Clearance Needed

E Construction Easement Needed D Surveying Data Needed

F Design Completed

G Design Plans Revision Needed

GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction

PR Pavement Resurfacing BR Bridge Reconstruction \*\* Proposed Force Account Project
CY Project Carry Over from Prior Year TTIP

§ Buy-Indian Project

\* Proposed Public Law 93-638 Project

GDS Grade, Drain, and Surfacing (Pavement) Construction

R Pavement Rehabilitation

RC Reconstruction CS Chip Sealing

GDG Grade, Drain, and Gravel Construction

GD Grade and Drain Construction

Projected Funding Amount based on FY-2008 Funding
Balance

H Design in Progress

I Under Construction J Eligibility to be determined

K Pending Request for Proposal

U Utility Relocation Needed TS Transit Project

W Within Existing ROW

¥ Major ROW, Utility, Archeolocial, etc., Problem

Q Archeological Clearance is Questionable

# Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA.

(1) Excluding Funds from other sources
(2) May be used to supplement Road Maintenance Funding as authorized by TCDC

\$\$\frac{1}{2}\$ Transportation Planning for Inventory Updates and other approved by TCDC

M Road Maintenance Project

(i) Partially Funded ++ Critical Pavement Rehabilitation Work Needed

NDOT Ranking:

N/A Not Aplicable. Project is on ARC List

N/A Not Aplicable. Project is not on ARC List

Fiscal Year 2020													8/14/2009		
Route No.	Project No.	Project Name/Description	Comment	Length	Length	Const		IRR F31	Agency		ADT	Safety	Pavement		First Yr
				Miles	kilometers	Type	Million (1)	Funding		Inventory	Current	Need	Rating	Ranking	Sch for Const
N103	N103(7)4	Non P/C housing street	ABCD	3.60	5.79	RC	\$5.40	full	Northern	No	250	Low	?	Not Available	2017
N63	N63(2)1,2,3	Oak Springs/Beclabito Bridge	ABCD	6.00	9.66	GDGB	\$9.04	full	Northern	Yes	302	Low		28	2011
N13	N13(3-3)4	US491 to Red Valley Pavement rehab	BDW	11.30	18.19	RC	\$7.28	full	Northern	Yes	1678	Moderate	30	53	2021
N46	N46(5)2,4	N46(3)/N474 to Counselor	ABCD	5.27	8.48	GDS	\$7.91	full	Eastern	Update	204	Moderate	SS		2004
N12	N12(13-2)1,2&4	Agency Line to Wheatfields	BCDW	4.50	7.24	GDS	\$12.86	full	Chinle	Yes	1989	High	60	42	2003
N8090	N8090(1)2,3	Rough Rock to N59	ABCD	7.50	12.07	GDG	\$11.25	full	Chinle	Yes	125	Low		16	2012
Various	Maintenance Projects	Region wide safety projects	BD	N/A	N/A	M	\$0.00	full	Region	Yes	N/A	High	N/A		2006
Area Wide	204(b) Transit *	Transit Facility Project	TS				\$0.00	full	Region		N/A	N/A	N/A		
	Chip Sealing	Various	BD	0.00	0.00	S	\$0.00	full							
	NRDOT Planning, Survey, Design,														
BIA Direct Service	NEPA, R/W	A/E Contracts & In-house for all projects		Various			\$1.20								
	Non-project Rrelated														
BIA Direct Service	Transportation Planning	Non Project Inherent Federal Function	N/A	N/A			\$0.50								
		Modifications & balances due on Previous Funded													

BIA Direct Service
BIA Direct Service
BIA Direct Service
BIA Direct Service
P.L. 93-638
P.L. 93-638

NRDOT Construction PL
NIA Housing Access
NRDOT Construction Monitoring A
NN Right-of-Way
NN Archeology HPD A
NN Archeology HPD A

Projects for on-going construction
Design & construction Access Roads
In All Projects in construction, QA
Consents and ROW Document Processing
Administration under 638
Task Orders

Various
Various
Various
Various
Various
Various
Various
Various

A/E Contracts & In-house for all projects Non Project Inherent Federal Function Modifications & balances due on Previous Funded

Waljor ROW, Utility, Archeolocial, etc., Problem Q Archeological Clearance is Questionable (i) Partially Funded ++ Critical Pavement Rehabilitation Work Needed	U Utility Relocation Needed W Within Existing ROW	K Pending Request for Proposal TS Transit Project	J Eligibility to be determined	I Under Construction	H Design in Progress	G Design Plans Revision Needed	F Design Completed	E Construction Easement Needed	D Surveying Data Needed	C Archeological Clearance Needed	B Environmental Assessment Needed	A ROW Needed	Legend and Comments
(1) Excluding Funds from other sources (2) May be used to supplement Road Maintenance Funding as authorized by TCDC SS Transportation Planning for Inventory Updates and other approved by TCDC M Road Maintenance Project	\$ Buy-Indian Project $$$ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA	** Proposed Force Account Project CY Project Carry Over from Prior Year TTIP	* Proposed Public Law 93-638 Project	BR Bridge Reconstruction	PR Pavement Resurfacing	GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction	CS Chip Sealing	R Pavement Rehabilitation	RC Reconstruction	GDS Grade, Drain, and Surfacing (Pavement) Construction	GDG Grade, Drain, and Gravel Construction	GD Grade and Drain Construction	
3 00	ds to be transferred to BIA.									N/A Not Aplicable. Project is not on ARC List	N/A Not Aplicable. Project is on ARC List	NDOT Ranking:	

Navajo Nation Tribal Transportation Improvement Program (TTIP)
Fiscal Year 2021 Final Update
Navajo Nation Council's Transportation and Community Development Committee
40 Yoar Plan-INDIAN RESERVATION ROADS PROGRAM

					#0 IBBI L		*U 1681 FIBII- INDIAN RESERVATION NOADS PROGRAI	DATOR NO	PROGRAM						
Fiscal Year 2021													EXHIBIT A 8/14/2009		
Route No.	Project No.	Project Name/Description	Comment	Length Miles	Length kilometers	Const Type	Est. Cost Million (1)	IRR Funding	Agency	Project in Inventory	ADT Current	Safety Need	Pavement Rating	NDOT Ranking	First Yr Sch for Const
													0	0	
NIS	N15(3-1)2&4	Cornfields to Greasewood	BCW	00'9		CDS	98.6\$	[In]	Ft. Def.	Yes	1412	Moderate	56	No Data	2006
N12	N12(13-3)1,2&4	Agency Line to Wheatfields	BCDW	4.40		SGS	\$12.64	full	Chinle	Yes	1989	High	09	42	2003
N7	N7(8)2&4	Spider Rock Jct. to Agency Line	ABCD	9.20		GDS	\$17.65	full	Chinle	Yes	134	Low	N/A	25	2007
Various	Maintenance Projects	Region wide safety projects	BD	N/A	N/A	M	\$0.00	full	Region	Yes	N/A	High	N/A		2006
Area Wide	204(b) Transit *	Transit Facility Project	LS				\$0.00	full	Region		N/A	N/A	N/A		
	Chip Sealing	Various	BD	0.00	0.00	S	\$0.00	full							
BIA Direct Service	NRDOT Planning, Survey, Design, NEPA, R/W	A/E Contracts & In-house for all projects		Varions			\$1.50								
	Non-project Related														
BIA Direct Service	Transportation Planning	Non Project Inherent Federal Function	N/A	N/A			\$0.50								
DIA Dincot Couries	NPDOT Construction	Modifications & balances due on Previous Funded Presidents for on-coing construction		Vonione			19								
BIA Direct Service	NHA Housing Access	Design & construction Access Roads		Various			\$0.00								
DIA DI CCI SCI VICE	NRDOT Construction	Design & Coulst access Access Access		v arrous											
BIA Direct Service	Monitoring	All Projects in construction, OA		Varions			\$3.00								
P.L. 93-638	NN Right-of-Way	Consents and ROW Document Processing		Various			\$0.14								
P.T. 93-638	NN Archeology	Administration under 638		Various			\$0.78								
P.L. 93-638	NN Archeology	Task Orders		Various			\$1.00								
		-			Total Estim	Total Estimated Amount	\$48.88								
			Projected Fu	nding Amoun	Projected Funding Amount based on FY-2008 Funding	2008 Funding	61.00								
						Balance	\$12.12								
	Legend and Comments														
	A ROW Needed		CD	Grade and Dra	GD Grade and Drain Construction	<b>u</b> 0					NDOT Ranking:	:			
	B Environmental Assessment Needed	eeded	GDG	Grade, Drain,	GDG Grade, Drain, and Gravel Construction	nstruction					N/A	Not Aplicable	Not Aplicable. Project is on ARC List	ARC List	
	C Archeological Clearance Needed	ded	CDS	Grade, Drain,	GDS Grade, Drain, and Surfacing (Pavement) Construction	(Pavement)	Construction				N/A	Not Aplicable	Not Aplicable. Project is not on ARC List	t on ARC List	
	D Surveying Data Needed		RC	RC Reconstruction	а										
	E Construction Easement Needed	pa	~	R Pavement Rehabilitation	abilitation										
	F Design Completed		S	CS Chip Sealing											
	G Design Plans Revision Needed	_	GDSB	Grade, Drain,	Surfacing (Pav	vement), & Br	GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction	ion							
	H Design in Progress		PR	PR Pavement Resurfacing	urfacing										
	I Under Construction		BR	BR Bridge Reconstruction	truction										
	J Eligibility to be determined		*	Proposed Publ	* Proposed Public Law 93-638 Project	Project									
	K Pending Request for Proposal		*	Proposed Forc	** Proposed Force Account Project	ject									
	TS Transit Project		CY	Project Carry	CY Project Carry Over from Prior Year TTIP	or Year TTIP									
	U Utility Relocation Needed		***	§ Buy-Indian Project	oject										
	W Within Existing ROW		ધ્ય	Project Design	ed by School C	onsultant, BI	£ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA.	ıstruction, RC	W needs to b	e transferred 1	to BIA.				
	¥ Major ROW, Utility, Archeolocial, etc., Problem	ocial, etc., Problem	€	Excluding Fun	(1) Excluding Funds from other sources	sources	;								
	Q Archeological Clearance is Questionable	uestionable	<u>9</u>	May be used to	o supplement F	Road Maintena	(2) May be used to supplement Road Maintenance Funding as authorized by TCDC	s authorized	by TCDC						
	(i) Partially Funded	for World Needed	8	55 Transportation Planning for M Pood Mointenance Decided	n Planning for	Inventory Up	\$\$ 1 ransportation Planning for Inventory Updates and other approved by TCDC M Dood Maintanana Busing	r approved by	) (1)						
	++ Critical Favement menanimat	Holl Work Inceded	TAT	Kodd Mannen	ance Froject										

Navajo Nation Tribal Transportation Improvement Program (TTIP)
Fiscal Year 2022 Final Update
Navajo Nation Council's Transportation and Community Development Committee
40 Year Plan- INDIAN RESERVATION ROADS PROGRAM

Fiscal Year 2022												H	EXHIBIT A 8/14/2009		
Route No.	Project No.	Project Name/Description	Comment	Length Miles	Length kilometers	Const Type	Est. Cost Million (1)	IRR Funding	Agency	Project in Inventory	ADT Current	Safety Need	Pavement Rating	NDOT Ranking	First Yr Sch for Const
N12	N12(12-2)2,4	Navajo to Whiskey Creek	BCDW	7.40	11.91	GDS	\$14.19	full	Ft. Def.	Yes	2138	High	48	No Data	2007
N12	N12(22)(23)4	US160 north to State Line	BDW	5.10	8.21	RC	\$11.17	full	Northern	Yes	670	Moderate	46	30	2017
N63	N63(2)1,2,3	Oak Springs/Beclabito Bridge	ABCD	6.00	9.66	GDGB	\$9.04	full	Northern	Yes	302	Low		28	2011
N67/N673	N67(1)/N673(1)1,2,4	Low Mountain to N4 Smoke Signal	ABCD	7.20	11.59	GDSB	\$0.00	full	Chinle	Yes	367/308	Low		35/20	2007
N12	N12(19-4)2,4	Wheatfields to Lukachukai	BCDW	10.00	16.09	GDS	\$19.18	full	Chinle	Yes	2517	High	50	53	2006
Various	Maintenance Projects	Region wide safety projects	BD	N/A	N/A	M	\$0.00	full	Region	Yes	N/A	High	N/A		2006
Area Wide	204(b) Transit *	Transit Facility Project	TS				\$0.00	full	Region		N/A	N/A	N/A		
	Chip Sealing	Various	BD	0.00	0.00	S	\$0.00	full							
	NRDOT Planning, Survey,														
BIA Direct Service	Design, NEPA, R/W	A/E Contracts & In-house for all projects		Various			\$1.50								
	Non-project Related														
BIA Direct Service	Transportation Planning	Non Project Inherent Federal Function	N/A	N/A			\$0.51								
		Modifications & halances due on Previous													

BIA Direct Service
BIA Direct Service BIA Direct Service P.L. 93-638

Non Project Inherent Federal Function Modifications & balances due on Previous Funded Projects for on-going construction Design & construction Access Roads

NRDOT Construction
NHA Housing Access
NRDOT Construction
Monitoring
NN Right-of-Way
NN Archeology HPD
NN Archeology

All Projects in construction, QA Consents and ROW Document Processing Administration under 638 Task Orders

Various
Various
Various
Various

Total Estinated Amount
Projected Funding Amount based on FY-2008 Funding
Balance

\$0.14 \$0.78 \$0.70 \$0.70 \$61.21 -\$0.21

\$1.00 \$0.51

(!) Partially Funded ++ Critical Pavement Rehabilitation Work Needed	Q Archeological Clearance is Questionable	¥ Major ROW, Utility, Archeolocial, etc., Problem	W Within Existing ROW	U Utility Relocation Needed	TS Transit Project	K Pending Request for Proposal	J Eligibility to be determined	I Under Construction	H Design in Progress	G Design Plans Revision Needed	F Design Completed	E Construction Easement Needed	D Surveying Data Needed	C Archeological Clearance Needed	B Environmental Assessment Needed	A ROW Needed	Legend and Comments
\$\$ Transportation Planning for Inventory Updates and other approved by TCDC M Road Maintenance Project	(2) May be used to supplement Road Maintenance Funding as authorized by TCDC	(1) Excluding Funds from other sources	£ Project Designed by School Consultant, BIA perform Construction, ROW needs to b	§ Buy-Indian Project	CY Project Carry Over from Prior Year TTIP	** Proposed Force Account Project	* Proposed Public Law 93-638 Project	BR Bridge Reconstruction	PR Pavement Resurfacing	GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction	CS Chip Sealing	R Pavement Rehabilitation	RC Reconstruction	GDS Grade, Drain, and Surfacing (Pavement) Construction	GDG Grade, Drain, and Gravel Construction	GD Grade and Drain Construction	
	С		Is to be transferred to BIA.										Project is already listed on prior year	N/A Not Aplicable. Project is not on ARC List	N/A Not Aplicable. Project is on ARC List	NDOT Ranking:	

# Navajo Nation Tribal Transportation Improvement Program (TTIP) Fiscal Year 2023 Final Update

Navajo Nation Council's Transportation and Community Development Committee 40 Year Plan-INDIAN RESERVATION ROADS PROGRAM Sch for Const

NDOT

2007 2007 2007

18 38 24 39 28 28 No Data

2006 2006 2006

Fiscal Year 2023

Rating N/A Low
Low
Moderate
Moderate Safety Need High N/A Current ADT 108 198 458 1810 1711 514 1412 278 N/A N/A Project in Yes Yes Yes Yes Yes Yes Yes Northern Northern Northern Western Ft. Def. Ft. Def. Agency \$1.20 IRRBP \$1.20full full Partial IRR 3 3 3 33 \$3.00 \$0.14 \$0.78 \$1.00 \$1.00 61.00 Est. Cost Million(1) \$22.65 \$4.17 \$0.26 \$0.26 \$1.03 \$6.60 \$8.38 \$1.13 \$0.00 \$1.20 \$0.50 Projected Funding Amount based on FY-2008 Funding
Balance Total Estimated Amount GDG GDS GDS S GDS kilometers 22.18 11.91 0.64 0.64 2.57 23.17 8.21 9.90 N/N 0.00 Various
Various
Various
Various Various Various Length Various 0.40 0.4 1.6 1.6 5.10 6.15 0.00 N/A N/A BCDQ BCDQ ABCDU BCD BCW ABCDU Non Project Inherent Federal Function Modifications & balances due on Previous Funded Projects for on-going construction Design & construction Access Roads All Projects in construction, QA
Consents and ROW Document Processing
Administration under 638
Task Orders A/E Contracts & In-house for all projects Hilliop Road
Northern Meas School Road
Indian Village Co-Op wNMDOT
Oljetoh Road North
Cornfleds to Greasewood
Crystal to Whiskey Creek, Noi6
Region wide safety projects Alamo to I-40 Canoncito to Res. Line North Project Name/Description Transit Facility Project Various NRDOT Planning, Survey, Fransportation Planning NN Right-of-Way NN Archeology HPD NN Archeology NRDOT Construction NHA Housing Access
NRDOT Construction Maintenance Projects Non-project Related Design, NEPA, R/W N55(4)/N551(1)2&4 N42(1-1)4 N15(2-2)(2-3)2&4 204(b) Transit N530(1)2,4 N545(1)2&4 N321(1)1,2,4 Project No. N56(2)2 BIA Direct Service P.L. 93-638 P.L. 93-638 P.L. 93-638 BIA Direct Service BIA Direct Service BIA Direct Service **BIA Direct Service** Route No. Area Wide N321

Spotted Owl Hjabitat, May Require 2 Years of Surveys

Legend and Comments

A ROW Needed

B Environmental Assessment Needed

C Archeological Clearance Needed

D Surveying Data Needed

E Construction Easement Needed

F Design Completed

G Design Plans Revision Needed

GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction

GDS Grade, Drain, and Surfacing (Pavement) Construction

R Pavement Rehabilitation

RC Reconstruction CS Chip Sealing

GDG Grade, Drain, and Gravel Construction

GD Grade and Drain Construction

H Design in Progress I Under Construction

J Eligibility to be determined

K Pending Request for Proposal

TS Transit Project
U Utility Rodocation Needed
W Within Existing ROW
Y Major ROW, Utility, Archeolocial, etc., Problem
Q Archeological Clearance is Questionable
(!) Partially Funded
++ Critical Pavement Rehabilitation Work Needee

NDOT Ranking:

N/A Not Aplicable. Project is on ARC List

N/A Not Aplicable. Project is not on ARC List

§ Buy-Indian Project

\*\* Proposed Force Account Project
CY Project Carry Over from Prior Year TTIP

\* Proposed Public Law 93-638 Project

PR Pavement Resurfacing BR Bridge Reconstruction

Navajo Nation Tribal Transportation Improvement Program (TTIP) Fiscal Year 2024 Final Update

Navajo Nation Council's Transportation and Community Development Committee
40 Year Plan- INDIAN RESERVATION ROADS PROGRAM

EXHIBIT A

							\$0.60		\$61.21	Fotal Estimated Amount	Total Estin					Ē
									\$0.50			Various		Task Orders	NN Archeology	P.L. 93-638
									\$0.78			Various		Administration under 638	NN Archeology HPD	P.L. 93-638
									\$0.14			Various		Consents and ROW Document Processing	NN Right-of-Way	P.L. 93-638
									\$3.00			Various		All Projects in construction, QA	NRDOT Construction Monitoring All Projects in construction, QA	BIA Direct Service
									\$0.00			Various		Design & construction Access Roads	NHA Housing Access	BIA Direct Service
									\$1.44			Various		Projects for on-going construction	NRDOT Construction	BIA Direct Service
														Modifications & balances due on Previous Funded		
									\$0.50			N/A	N/A	Non Project Inherent Federal Function	Transportation Planning	BIA Direct Service
															non-project related	
									\$1.20			Various		A/E Contracts & In-house for all projects	Design, NEPA, R/W	BIA Direct Service
															NRDOT Planning, Survey,	
						Various		full	\$0.00	s	0.00	0.00	D	Various	Chip Sealing	
		N/A	N/A	N/A		Region		full	\$0.00				TS	Transit Facility Project under PL93-638	204(b) Transit *	Area Wide
2006		N/A	High	N/A	Yes	Region		full	\$0.00	M	N/A	N/A	BD	region wide safety projects	Maintenance Projects	Various
2002	43	40	Low	2046	Yes	Western		full	\$1.32	CS	22.53	14.00	DW	Reservation line to Leupp Chip Seal	N15(1-1)(2-1)4	N15
2004	25	50/75.8	Low	502	Update	Western	\$0.10	full	\$2.23	GDS	5.15	3.20	ABCD	Dennehotso Access & Brdg Rehab - N313	N6461(1-1)/N6461(2)1,2&4	N6461
2017			Low	N/A	Yes	NIIP		full	\$0.60	CS	11.65	7.24	BDW	Chip Sealing	N4178(1)4	N4178
2021	22	N/A	Low	278	Yes	Ft. Def.	\$0.50	Partial	\$10.11	GDS	9.90	6.15	ABCDU	Crystal to Whiskey Creek / N617	N321(2)1,2,4	N321
2008	21	50	Low	126	Yes	Chinle		full	\$7.01	S	24.62	15.30	DWQ	Salina North Loop	N251(1-1)4	N251
2017	11		Low	32	No	Chinle		full	\$3.80	GD	9.49	5.90	ABCD	Lower Wheatfields Road	N8079(1)2	N8079
2006	22		Low	283	Yes	Northern		full	\$5.63	GDG	10.78	6.70	ABCD	N34 South	N5010(2)2&3	N5010
2012	10	N/A	Low	229	Yes	Northern		full	\$20.70	GDG	22.21	13.80	ABCD	N13to N34	N5012(1)2,3	N5012
2007	33	40	Low	3265	Yes	Northern		full	\$1.50	GDS	1.61	1.00	BCDQ	NW Shiprock Housing Access	N509(1)2&4	N509
2007		40	Low	908	Yes	Northern		full	\$0.75	GDS	0.80	0.50	ABCD	Nizhoni & Tse Bitai School Access	N512(1)2,4	N512
Sch for Const	Ranking	Rating	Need	Current	Inventory		Funding	Funding	Million(1)	's Type	Kilometers	Miles				
First Yr	NDOT	Pavement	Safety	ADT	Project in	Agency	IRRBP	IRR	Est. Cost	Const	Length	Length	Comment	Project Name/Description	Project No.	Route No.
		8/14/2009														Fiscal Year 2024
	;															

Spotted Owl Hjabitat, May Require 2 Years of Surveys

Total Estimated Amount
Projected Funding Amount based on FY-2008 Funding
Balance

\$1.44 \$0.00 \$3.00 \$0.14 \$0.78 \$0.50 \$61.21 61.00 -\$0.21

\$0.60

TS Transi Project
U Uilliy Relocation Needed
W Within Existing ROW
Y Major ROW, Uility, Archeolocial, etc., Problem
Q Archeological Clearance is Questionable
() Partially Funded
++ Critical Pavement Rehabilitation Work Needed G Design Plans Revision Needed
H Design in Progress
I Under Construction
J Eligibility to be determined
K Pending Request for Proposal C Archeological Clearance Needed A ROW Needed F Design Completed E Construction Easement Needed D Surveying Data Needed B Environmental Assessment Needed Legend and Comments GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction
PR Pavement Resurfacing
BR Bridge Reconstruction
Proposed Public Law 93-G88 Project
Proposed Force Account Project
Project Carry Over from Prior Year TTIP
Buy-Indian Project
E Project Designed by School Consultant, BLA perform Construction, ROW needs to be transferred to BIA.
Excluding Funds from other sources
D Excluding Funds from other sources
Transportation Planning for Inventory Updates and other approved by TCDC
R Transportation Planning for Inventory Updates and other approved by TCDC GDS Grade, Drain, and Surfacing (Pavement) Construction GDG Grade, Drain, and Gravel Construction CS Chip Sealing RC Reconstruction GD Grade and Drain Construction R Pavement Rehabilitation NDOT Ranking: N/A Not Aplicable, Project is on ARC List

N/A Not Aplicable, Project is not on ARC List

## Navajo Nation Tribal Transportation Improvement Program (TTIP) Fiscal Year 2026 Final Update Navajo Nation Council's Transportation and Community Development Committee 40 Year Plan- INDIAN RESERVATION ROADS PROGRAM

### Fiscal Year 2026

Fiscal Year 2026												Ħ	EXHIBIT A		
													8/14/2009		
Route No.	Project No.	Project Name/Description	Comment	Length	Length	Const	Est. Cost	IRR	Agency	Project in	ADT	Safety	Pavement	NDOT	First Yr
				Miles	Kilometers	Type	Million(1) Ft	Funding		Inventory	Current	Need	Rating	Ranking	Sch for Const
98N	N36(6A-1)(7-1)4	Reservation Bndry to Nenahnezad	BDW	10.20	16.41 R	R	\$7.13	[In]	Northern	Yes	4564	Low	88	35	2017
N503	N501(1-1)4	rccess	DBW	0.30	0.48 R	R	\$0.19	[In]	Northern	Yes	250	Low	10	25	2017
NS	N5(1-1)(2-1)4	US491 to Burnham	BDW	12.30	H 67.61	2	\$8.42	[In]	Northern	Yes	177	Low	54	41	2017
N12	N12(19-5)2,4		BDW	10.00	16.09	CDS	\$19.18	full	Chinle	Yes	2517	High	09	25	2009
N30	N30(2)2,4		ABCDU	05.9	10.46 G	CDS	\$12.47	full	Ft. Def.	Yes	471	Low	N/A	38	2008
Various	Maintenance Projects	Region wide safety projects	BD	N/A	N/A N	M	\$0.00	lul	Region	Yes	N/A	High	N/A		2006
Area Wide	204(b) Transit *	Transit Facility Project under PL93-638	LS				\$0.00	full	Area		N/A	N/A	N/A		
	Chip Sealing	Various	D	0.00	0.00	S	\$0.00	full							
	NRDOT Planning, Survey,														
BIA Direct Service	Design, NEPA, R/W	A/E Contracts & In-house for all projects		Varions			\$1.20								
	Non-project Related														
BIA Direct Service	Transportation Planning	Non Project Inherent Federal Function	N/A	N/A			\$0.50								
		Modifications & balances due on Previous Funded													
BIA Direct Service	NRDOT Construction	Projects for on-going construction		Varions			\$3.00								
BIA Direct Service	NHA Housing Access	Design & construction Access Roads		Various			\$0.00								
	NRDOT Construction														
BIA Direct Service	Monitoring	All Projects in construction, QA		Varions			\$3.00								
P.L. 93-638	NN Right-of-Way	Consents and ROW Document Processing		Varions			\$0.14								
P.L. 93-638	NN Archeology HPD	Administration under 638		Varions			\$0.78								
P.L. 93-638	NN Archeology	Task Orders		Various			\$2.00								
					Total Estimated Amoun	ed Amount	\$58.01								
		Proj	Projected Funding Amount based on FY-2008 Funding	g Amount ba	sed on FY-20	908 Funding	61.00								
						Balance	2.99								

Legend and Comments

A ROW Needed

GD Grade and Drain Construction
GDG Grade, Drain, and Gravel Construction
GDS Grade, Drain, and Surfacing (Pavement) Construction
RC Reconstruction

A NO. Tectucal
B Environmental Assessment Needed
C Archeological Charance Needed
D Surveying Data Needed
E Construction Easement Needed
F Design Completed
G Design Plans Revision Needed
H Design in Progress
I Under Construction
J Eligibility to be determined
K Pending Request for Proposal
IY Transit Project
U Utility Redesarion Needed
W Within Existing ROW
V Major ROW, Utility, Archeolocial, etc., Problem
Q Archeological Cherance is Questionable
(!) Partially Funded
++ Critical Pavement Rehabilitation Work Needed

R Pavement Retabilitation
(S. Chip, Scaling
(S. Chip, Scaling
(S. Chip, Scaling
(S. Chip, Scaling
(GDS Grade, Drain, Surfacing (Pavement), & Bridge Construction
(B. Bridge Reconstruction
(B. Bridge Reconstruction
(B. Bridge Reconstruction)
(A. Proposed Pouble Law 93-638 Project
(A. Proposed Pouble Law 93-638 Project
(A. Proposed Pouble Law 19-696 Project
(A. Proposed Pouble Law 19-696 Project
(A. Project Carry Over from Prior Year TTIP
(B. Bry-Indian Project Carry Over from Prior Year TTIP
(B. Evcluding Funds from other sources
(C. Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA.
(C. Excluding Funds from other sources
(C. May be used to supplement Road Maintenance Funding as authorized by TCDC
(S. May Maintenance Project
M. Road Maintenance Project

NDOT Ranking:

NA Not Aplicable. Project is on ARC List

NA Not Aplicable. Project is not on ARC List

Not Aplicable a Project is not on ARC List

Project is already listed on prior year

# Navajo Nation Tribal Transportation Improvement Program (TTIP) Fiscal Year 2025 Final Update Navajo Nation Council's Transportation and Community Development Committee 40 Year Plan- INDIAN RESERVATION ROADS PROGRAM

Fiscal Year 2025													EXHIBIT A 8/14/2009		
Route No.	Project No.	Project Name/Description	Comment	Length Miles	Length Kilometers	Const Type	Est. Cost Million(1)	IRR Funding	Agency	Project in Inventory	ADT Current	Safety Need	Pavement Rating	NDOT Ranking	First Yr Sch for Const
N13	N13(4-1)4	Red Valley to Buffalo Pass	BDW	7.70	12.39	R	\$4.96	full	Northern	Yes	519	Low	60	34	2017
N172	N172(1)2	Round Rock to Cove	ABCDU	12.80	20.60	GD	\$8.24	full	Chinle	Yes	92	Low		8	2013
N8077	N8077(1)2&4	Black Rock Road	ABCD	7.30	11.75	GDS	\$10.15	full	Chinle	Yes	503	Low	N/A	22	2017
N7004	N7004(1)2	N9 Whitehorse to Rincon Marquis	ACDGH	16.80	27.04	GD	\$5.88	full	Eastern	Yes	85	Low		21	2007
N31	N31(1)1,2,3	Tohatchi west to N30/N31 Jct.	ABCDU	12.96	20.86	GD	\$24.86	full	Ft. Def.	Yes	82	Low	20	22	2007
Various	Maintenance Projects	Region wide safety projects	BD	N/A	N/A	М	\$0.00	full	Region	Yes	N/A	High	N/A		2006
Area Wide	204(b) Transit *	Transit Facility Project under PL93-638	TS				\$0.00	full	Region		N/A	N/A	N/A		
	Chip Sealing	Various	D	0.00	0.00	S	\$0.00	full	Various						
	NRDOT Planning, Survey,														
BIA Direct Service	Design, NEPA, R/W	A/E Contracts & In-house for all projects		Various			\$1.20								
	Non-project Related														
BIA Direct Service	Transportation Planning	Non Project Inherent Federal Function	N/A	N/A			\$0.50								
		Modifications & balances due on Previous Funded													

BIA Direct Service
BIA Direct Service

NRDOT Construction
NHA Housing Access
NRDOT Construction

Non Project Inherent Federal Function
Modifications & balances due on Previous Funded
Projects for on-going construction
Design & construction Access Roads

Various Various N/A

\$1.00 \$0.00 \$0.50

	Bl A Direct Service P.L. 93-638 P.L. 93-638 P.L. 93-638	
E Construction Easement Needed F Design Completed G Design Plans Revision Needed H Design in Progress I Under Construction J Eligibility to be determined K Pending Request for Proposal TS Transit Project Utility Relocation Needed W Within Estisting ROW Y Major ROW, Utility, Archeolocial, etc., Problem Q Archeological Clearance is Questionable (1) Partially Funded ++ Critical Pavement Rehabilitation Work Needed	No Archeology HPD Add NN Archeologian Add NN Archeologian Add D Surveying Data Needed D Surveying Data Needed	
d  ccial, etc., Problem testionable ion Work Needed	MI Projects in construction, QA Consents and ROW Document Processing Administration under 638 Task Orders  del	
R Pavement Re CS Chip Sealing GDSB Grade, Drain PR Pavement Re BR Bridge Recon Proposed Thi Proposed For Proposed Gor CY Project Carry § Buy-Indian P £ Project Desig (1) Excluding Fu (2) May be used S\$ Transportation	Various  Various  Various  Various  Various  Total Estimated Amount based on FY-2008 Funding Amount based on FY-2008 Funding Balance  GD Grade and Drain Construction GDG Grade, Drain, and Gravel Construction GDG Grade, Drain, and Surfacing (Pavemer)  RC Reconstruction	
R Pavement Rehabilitation CS Chip Sealing CS Chip Sealing GSB Grade, Drain, Surfacing (Pavement), & Bridge Construction GDSB Grade, Drain, Surfacing BR Bridge Reconstruction Proposed Fore Account Project Proposed Fore Account Project Project Carry Over from Prior Year TTIP Buy-Indian Project £ Project Designed by School Consultant, BIA perform Construction £ Project Designed by School Consultant, BIA perform Construction £ Project Designed by School Consultant, BIA perform Construction £ Project Designed by School Consultant, BIA perform Construction £ Project Designed by School Consultant, BIA perform Construction £ Project Designed by School Consultant, BIA perform Construction £ Project Carry Construction £ Project Carry Construction £ Project Carry Consultant, BIA perform Construction £ Project Carry Consultant,	Various   S3.00   S3.00   Various   S4.14   S4.14   Various   S4.78   S4.78   S4.78   S4.78   S4.78   S4.79   S4.79	_
on g (Pavement), & gg (Pavement), & gas (Pavemen	Total Estimated Amount sed on FY-2008 Funding Balance Balance ain Construction and Gravel Construction and Surfacing (Pavemen	
: Bridge Constru IIIP , BIA perform C.	\$0.78 \$0.78 \$0.78 \$0.50 \$61.21 61.00 \$0.21	
R Pavement Rehabilitation  SG Chip Scaling  SB Grade, Drain, Surfacing (Pavement), & Bridge Construction  SB Grade, Drain, Surfacing  SR Pavement Resurfacing  SR Pavement Resurfacing  SR Project Proposed Fore, Account Project  Project Carry Over from Prior Year TTIP  S Buy-Indian Project  Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA.  (1) Excluding Funds from other sources  (2) May be used to supplement Road Maintenance Funding as authorized by TCDC  SS Transportation Planning for Inventory Updates and other approved by TCDC  M Road Maintenance Project	NDOT Ranking:  N/A Not Aplicable. Project is on ARC List  N/A Not Aplicable. Project is not on ARC List	

### Navajo Nation Tribal Transportation Improvement Program (TTIP) Fiscal Year 2027 Final Update

Navajo Nation Council's Transportation and Community Development Committee 40 Year Plan- INDIAN RESERVATION ROADS PROGRAM

Fiscal Year 2027												EX	EXHIBITA		
													8/14/2009		
Route No.	Project No.	Project Name/Description	Comment	Length	Length	Const	Est. Cost	IRR	Agency	Project in	ADT	Safety F	Pavement	NDOT	First Yr
				Miles	Kilometers	Type	Million(1)	Funding		Inventory	Current	Need	Rating	Ranking	Sch for Const
N7046	N7046(3)2,3	Jones Ranch to State Line	ABCD	4.80	7.72	CDC	\$7.20	full	Eastern	Yes	4	Low	55	22	2009
N421	N421(1)2,4	Oljato Chapter Access	ABCD	2.00	3.22	CDS	\$3.29	[In]	Western	Yes	415	Low	22	21	2006
N70/N6920	N70(2)2/N6920(1)2	Grandfalls to N15	ABCD	5.10	8.21	æ	\$7.65	[In]	Western	Yes	54 N	Moderate	10	12	2007
N6440	N6440(1)1,2,3	Halgaitoh Wash Bridge	ABCD	0.25	0.40	GDGB	\$1.13	full	Western	Yes	98	Low	N/A	10	2008
N3002	N3002(4)1,2,4	Plant	ABCD	8.54	13.74	GDSB	\$13.31	[In]	NIIP	No	490	Low			2016
Various	Maintenance Projects	Region wide safety projects	BD	N/A	N/A N	M	\$0.00	full	Region	Yes	N/A	High	N/A		2006
Area Wide	204(b) Transit *	Transit Facility Project under PL93-638	LS				\$0.00	IInJ	Area		N/A	N/A	N/A		
	Chip Sealing	Various	q	0.00	0.00	cs	\$0.00	[[n]							
	NRDOT Planning, Survey,														
BIA Direct Service	Design, NEPA, R/W	A/E Contracts & In-house for all projects		Varions			\$1.36								
	Non-project Related														
BIA Direct Service	Transportation Planning		N/A	N/A			\$0.50								
		Modifications & balances due on PreviousFunded													
BIA Direct Service	NRDOT Construction	Projects for on-going construction		Varions			\$3.32								
BIA Direct Service	NHA Housing Access	Design & construction Access Roads		Various			\$0.00								
	NRDOT Construction														
BIA Direct Service	Monitoring	All Projects in construction, QA		Various			\$3.00								
P.L. 93-638	NN Right-of-Way	Consents and ROW Document Processing		Various			\$0.14								
P.L. 93-638	NN Archeaology HPD	Administration under 638		Various			\$0.78								
P.L. 93-638	NN Archeaology	Task Orders		Various			\$1.00								
					Total Estimated Amount	ed Amount	\$42.67								
		Pro	ojected Fundir	ng Amount b	Projected Funding Amount based on FY-2008 Funding	98 Funding	61.00								
						Balance	18.33								

Project was abandoned in FY-1998 for lack of support

Legend and Comments

A ROW Needed

B Environmental Assessment Needed C Archeological Clearance Needed

D Surveying Data Needed

E Construction Easement Needed

F Design Completed

G Design Plans Revision Needed

GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction

PR Pavement Resurfacing BR Bridge Reconstruction

R Pavement Rehabilitation

RC Reconstruction CS Chip Sealing

GD Grade and Drain Construction
GDG Grade, Drain, and Gravel Construction
GDG Grade, Drain, and Surfacing (Pavement) Construction

H Design in Progress

I Under Construction

J Eligibility to be determined

K Pending Request for Proposal TS Transit Project

U Utility Relocation Needed

W Within Existing ROW

¥ Major ROW, Utility, Archeolocial, etc., Problem

Q Archeological Clearance is Questionable

(!) Partially Funded

++ Critical Pavement Rehabilitation Work Needed

NDOT Ranking:

NA Not Aplicable. Project is on ARC List

NA Not Aplicable. Project is not on ARC List

NA Project is already listed on prior year

£ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA.

(1) Excluding Funds from other sources

CY Project Carry Over from Prior Year TTIP

§ Buy-Indian Project

\* Proposed Public Law 93-638 Project \*\* Proposed Force Account Project (2) May be used to supplement Road Maintenance Funding as authorized by TCDC \$\$ Transportation Planning for Inventory Updates and other approved by TCDC M Road Maintenance Project

### Navajo Nation Tribal Transportation Improvement Program (TTIP) Fiscal Year 2028 Final Update Navajo Nation Council's Transportation and Community Development Committee 40 Year Plan-INDIAN RESERVATION ROADS PROGRAM

	Œ
œ	2
7	Ξ
	Ε
કુ	Ė
3	Ξ
_	P

	BIA Direct Service BIA Direct Service BIA Direct Service	Area Wide	N7062/N74	N7043	N69	N531 N9202	N501	N553	N552	N551	Route No.
NR Didyr Construction Monitoring All Projects in NN Right-of-Way Consents and Nn Archeology HPD Administration   Task Orders	NRDOT Planning, Survey, Design, NEPA, R/W Non-project related Transportation Planning NRDOT Construction NHA Housing Access	204(b) Transit * Chip Sealing	N7062/N74(1-2)4	N30(3)1,2,4 N7043(1)2,3	N69(1)1,2	N531(1)4 N9202(1)1.2.4	N501(1)4	N553(1)4	N552(1)4	N551(1)4	Project No.
NRDOT Construction Monitoring AII Projects in construction, QA.  NR Right-da Way  NR Archoology HPD  Administration under 638  NN Archoology HPD  Administration under 638  NN Archoology HPD  Archoological Comments  Environmental Assessment Needed  Construction Essement Needed  Construction Essement Needed  Construction Progress  Under Construction  Engiphility to be determined  Proding Request for Proposal  Transit Project  Utility Reducation Needed  Within Existing ROW  Major ROW, Utility, Archeolocial, etc., Problem  Archeological Clearance is Questionable  Partially Funded  Critical Pavement Rehabilitation Work Needed  Critical Pavement Rehabilitation Work Needed	A/E Contracts & In-house for all projects  Non Project Inherent Federal Function  Modifications & balances due on Previous Funded  Projects for on-going construction  Design & construction Access Roads	Transit Facility Project under PL93-638 Various	NM 602 to Breadsprings Pavement Reconst Region wide safety projects	Mexican Springs to Navajo N31 N7046 to N7140	US666 Naschitti East	Agency Roads Access Ganado Loon Access to SR264/1/S191	Aneth School Access	Shiprock Farm Road Anoth NHA Access	Shiprock Farm Road	Shiprock Farm Road	Project Name/Description
Projected  GDSIS  GDSIS	N/A	D TS	BDW	ABCDU	ABCD	ABCD	ABCD	BCDW	BCDW	BCDW	Comment
Various   S.10   Various   S.10   Various   S.11   Various   S.12   S.15   Various   S.16	Various Various	0.00	7.40 N/A	10.90	12.00	1.00	0.30	0.10	2.70	0.80	Length Miles
Total Est  Total Est  Int based on F  rain Construe 1, and Gravel 1 1, and Surfacing (P 1, Surfacing (P 1, Surfacing (P 1) Ore ex Account P 1) Over From P 1) Over From P 2) Over From P 2) Over From P 3) Over From P 3) Over From P 3) Over From P 4) Over From P 4) Over From P 5) Over From P 5) Over From P 6) Over From P 6		0.00	N/A	10.46	19.31	1.61	0.48	1.61	4.35	1.29	Length Kilometers
Total Estimated Amount Issed on FY-2008 Funding Balance Construction Gravel Construction (Surfacing (Pavement) of Hation Hation Hation Hation Hation Hation Hation Froplet Ground Project count Project refrom Prior Year TVIIP or From Prior Year TVIIP or From Prior Year TVIIP or Ground Consultant, BI Ty School Consultant,		S	S	GDG	GDG	RC	RC	R C	RC	RC	Const Type
onstru dige Co	\$1.07 \$0.50 \$1.00 \$0.00	\$0.00	\$3.58 \$0.00	\$11.04	\$18.25	\$0.48 \$2.14	\$0.15	\$0.48	\$1.31	\$0.39	Est. Cost Million(1)
tion  instruction, Riastruction, Riastruction as authorized or approved by				22						fall	IRR Funding
OW needs to t		Region	Eastern	Ft. Def. Eastern	Ft. Def.	Northern Ft. Def	Northern	Northern	Northern	Northern	Agency
e transferred			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Project in Inventory
		N/A	592 N/A	496 242	130	350	250	418 250	883	712	ADT Current
NDOT Ranking: N/A No N/A No		N/A	Moderate High	Low	Low	Low	?		?	?	Safety Need
ng: Not Aplicable. Project is on ARC List Not Aplicable. Project is not on ARC List		N/A	V/N 05	55		10	10	40	40	40	Pavement Rating
. Project is on			21	26 14	20	28	24	28	28	36	NDOT Ranking
on ARC List		more o	2012	2007	2008	2017	2017	2017	2017	2017	First Yr Sch for Const

### Navajo Nation Tribal Transportation Improvement Program (TTIP) Fiscal Year - 2029 Final Update Navajo Nation Council's Transportation and Community Development Committee 40 Year Plan - INDIAN RESERVATION ROADS PROGRAM

riscal real 2029																
														8/14/2009		
Project No.	Project Name/Description	Comment	Length	Length	Const	Est. Cost Million(1) Fr	IRR Funding	IRRBP Funding	PLHD Funding	Agency	Project in Inventory	ADT	Safety	Pavement Rating	NDOT Ranking	First Yr Sch for Const
					-36-	-								0	0	
N7028(1)1,2	Torreon to Rincon Marquis (Co-Op)	ABCD	16.90		GD GD	\$25.35	full			Eastern	County	09	Low	ΝA	14	2008
N101(8)2&4	Tuba City Main Street Re-hab-Facility St	ABCD	1.00		CDS	\$1.20	full			Western	No	13843	High	30	37	2010
N101(9)2&4	Main Street north to N608	ABCD	1.00		GDS	\$1.20	full			Western	Š	1334	Moderate		37	2010
N16(7)2&3	USI 60 to SR98	ABCDU	8.00	12.87	GDG	\$6.55	E E			Western	Yes	퐀	Low		12	2008
N4002(1)2&4	NIIP Blk I- Cnty Rd to Hammond Rd	ABCD	4.00	6.44	CDS	\$6.00	full			MIIP	Yes	262	Low			2007
N4059(1)2&4	NIIP Blk II Experiment Sta to N36	BD	4.00		GDS	\$6.00	[In]			NIIP	Yes	N/A	Low			2009
N4000 BIR II & III	NIIP rehab	BD	15.00		R	\$7.26	full			NIIP	Yes	N/A	Low			2009
Maintenance Projects	Region wide safety projects	BD	N/A		M	80.00	full			Region	Yes	N/A	High	NA		2006
204(b) Transit *	Transit Facility Project under PL93-638	SI				\$0.00	full			Region		N/A	N/A	NA		
Chip Sealing	Various	Q	0.00	0.00	S	\$0.00	full									
NRDOT Planning, Survey, Design, NEPA, R/W	A/E Contracts & In-house for all projects		Varions			\$1.23										
Non-project Related Transportation Planning	Non Project Inherent Federal Function	N.A	N/A			\$0.50										
	Modifications & balances due on Previous Funded Projects for on															
NRDOT Construction			Varions			\$1.00										
NHA Housing Access	Design & construction Access Roads		Various			\$0.00										
Monitoring	All Projects in construction, QA		Various			\$3.00										
NN Right-of-Way	Consents and ROW Document Processing		Various			\$0.14										
NN Archeology	Administration under 638		Various			\$0.78										
NN Archeology	Task Orders		Various			\$1.00										
		<del> </del>	7	Total Estima	Total Estimated Amount	\$61.21		\$0.00	\$0.00							
		Projected Funding Amount based on FY-2008 Funding	ling Amount	based on FY-2	2008 Funding	61.00										
					Balance	-\$0.21										
Legend and Comments																
A ROW Needed		9	Frade and Di	GD Grade and Drain Construction	ion						검	B:				
B Environmental Assessment Needed	seded	CDC	Frade, Drain	GDG Grade, Drain, and Gravel Construction	onstruction							Not Aplicable	Not Aplicable. Project is on ARC List	ARC List		
C Archeological Clearance Needed	ed	CDS	rade, Drain	GDS Grade, Drain, and Surfacing (Pavement) Construction	g (Pavement)	Construction					N/A	Not Aplicable	Not Aplicable. Project is not on ARC List	ot on ARC List		
D Surveying Data Needed		RC I	RC Reconstruction	<b>E</b>												
E Construction Easement Needed	72	RI	R Pavement Rehabilitation	habilitation												
F Design Completed		SS	Thip Sealing			CS Chip Sealing										
G Design Plans Revision Needed		GDSB (	Frade, Drain	, Surfacing (Pa	ivement), & B	ridge Construction										
H Design in Progress		PR I	PR Pavement Resurfacing	surfacing												
I Under Construction		BR b	BR Bridge Reconstruction	struction												
J Eligibility to be determined		1 *	roposed Pub	* Proposed Public Law 93-638 Project	8 Project											
K Pending Request for Proposal		I 00	roposed For	** Proposed Force Account Project	oject											
TS Transit Project		CYF	Project Carry	CY Project Carry Over from Prior Year TTIP	ior Year TTI	_										
U Utility Relocation Needed		8.6	§ Buy-Indian Project	roject												
W Within Existing ROW		13	roject Desig	ned by School	Consultant, B	£ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA.	ruction, RO	N needs to be	e transferred	to BIA.						
¥ Major ROW, Utility, Archeolocial, etc., Problem	ocial, etc., Problem	(I) E	excluding Fu	(1) Excluding Funds from other sources	r sources	•										
Q Archeological Clearance is Questionable	testionable	(2) N	May be used	to supplement	Road Mainter	(2) May be used to supplement Road Maintenance Funding as authorized by TCDC	uthorized by	, TCDC								
(!) Partially Funded		LSS	<b>Fransportation</b>	n Planning for	r Inventory U	SS Transportation Planning for Inventory Updates and other approved by TCDC	pproved by	CDC								
C. C. M M Links A M M Links A M Links A M M. M M. M M. M M. M																

Navajo Nation Tribal Transportation Improvement Program (TTIP)
Fiscal Year 2030 Final Update
Navajo Nation Council's Transportation and Community Development Committee
40 Year Plan-INDIAN RESERVATION ROADS PROGRAM

BIA Dir			Area Wide	Various	N41	N52	N104	N7057	N546	N5113	N19				Fisc	
BIA Direct Service			ide										Route No.		Fiscal Year 2030	
NEPA, R/W	NRDOT Planning, Survey, Design,	Chip Sealing	204(b) Transit *	Maintenance Projects	N41(7)2&3	N52(1)2&3	N104(3-1)2&4	N7057(2)2	N546(1)2	N5113(1)1,2	N19(1-1)4 with r/w Fencing		Project No.			
A/E Contracts & In-house for all projects		Various	Transit Facility Project under PL93-638	Region wide safety projects	West Dinnebito Wash to Turquoise Trail	Dalton Pass Chapter Access	Crownpoint Sunnyside Street Access	Standing Rock to SR371	Bluff Road	SR64 to Arizona Line	US491 to Toadlena		Project Name/Description			
		D	TS	BD	ABCD	ABCD	ABCD	ABCD	ABCDU	ABCD	BDW		Comment			
Various		0.00		N/A	2.00	1.50	1.15	13.30	4.20	12.40	12.20	Miles	Length			
		1.0		N/A	3.22	2.41	1.85	21.40	6.76	19.96	19.63	Kilometers	Length			
		0.00 S		M	GDG	GDG	GDS	GD	GD	GDB	R	's Type	Const			
\$1.20		\$0.00	\$0.00	\$0.00	\$3.29	\$1.10	\$0.72	\$19.95	\$0.98	\$20.89	\$6.16	Million(1) Funding	Est. Cost			
		full	full	full	full	full	full	full	full	full	full	Funding	IRR			
												Funding	IRRBP			
												Funding	PLHD			
			Region	Region	Chinle	Eastern	Eastern	Eastern	Northern	Northern	Northern		Agency			
				Yes	Yes	Yes	No	Yes	?	Yes	Yes	Inventory	Project in			
			N/A	N/A	485	71	208	33	116	128	750	Current	ADT			
			N/A	High	Low	Low	Low	Low	Low	Low	Low	Need	Safety			
			N/A	N/A							60	Rating	Pavement	8/14/2009	EXHIBIT /	
					21	16	19	11	20		40	Ranking	NDOT		Α	
				2006	2017	2012	2013	2009	2017	2008	2017	Sch for Const	First Yr			

BIA Direct Service
BIA Direct Service
BIA Direct Service
BIA Direct Service
P.L. 93-638
P.L. 93-638

Transportation Planning Non Project Inherent Federal Function
Modifications & balances due on Previous Funded
NRDOT Construction Projects for on-going construction
NHA Housing Access
Design & construction Access Roads
NRDOT Construction Monitoring All Projects in construction, QA
NRDOT Construction Monitoring All Projects in construction, QA
NN Right-of-Way
NN Archeology HPD
Administration under 638
NN Archeology HPD
Task Orders

BIA Direct Service

Non-project Related Transportation Planning

N/A

N/A

\$0.50

				ä	M Road Maintenance Project	M Road Ma	rk Needed	++ Critical Pavement Rehabilitation Work Needed	
		proved by TCDC	lates and other ap	\$\$ Transportation Planning for Inventory Updates and other approved by TCDC	tation Planning	\$\$ Transpor		(!) Partially Funded	
		thorized by TCDO	nce Funding as au	ent Road Maintena	sed to suppleme	(2) May be u	ble	Q Archeological Clearance is Questionable	
				her sources	(1) Excluding Funds from other sources	(1) Excludin	c., Problem	¥ Major ROW, Utility, Archeolocial, etc., Problem	
ed to BIA.	s to be transferr	ction, ROW need	A perform Constru	£ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA.	esigned by Scho	£ Project I		W Within Existing ROW	
					m Project	§ Buy-Indian Project		U Utility Relocation Needed	
				CY Project Carry Over from Prior Year TTIP	arry Over from	CY Project C		TS Transit Project	
				Project	** Proposed Force Account Project	** Proposed		K Pending Request for Proposal	
				638 Project	* Proposed Public Law 93-638 Project	* Proposed		J Eligibility to be determined	
					BR Bridge Reconstruction	BR Bridge R		I Under Construction	
					PR Pavement Resurfacing	PR Pavemen		H Design in Progress	
			dge Construction	GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction	rain, Surfacing	GDSB Grade, D		G Design Plans Revision Needed	
					ing	CS Chip Sealing		F Design Completed	
					R Pavement Rehabilitation	R Pavemen		E Construction Easement Needed	
					ıction	RC Reconstruction		D Surveying Data Needed	
N/A Not Aplicable. Project is not on ARC List			onstruction	GDS Grade, Drain, and Surfacing (Pavement) Construction	rain, and Surfa	GDS Grade, D		C Archeological Clearance Needed	
N/A Not Aplicable. Project is on ARC List				1 Construction	GDG Grade, Drain, and Gravel Construction	GDG Grade, D		B Environmental Assessment Needed	
NDOT Ranking:				uction	GD Grade and Drain Construction	GD Grade ar		A ROW Needed	
								Legend and Comments	
			-\$0.21	Balance					
			61.00	2008 Funding	nt based on FY-	Projected Funding Amount based on FY-2008 Funding	Project		
	\$0.00	\$0.00	\$61.21	Cotal Estimated Amount	Total Estin				
			\$1.50		-	Various	Task Orders	NN Archeology	L. 93-638
			\$0.78		•	Various	Administration under 638	NN Archeology HPD	L. 93-638
			\$0.14		3	Various	Consents and ROW Document Processing	NN Right-of-Way	L. 93-638
			\$3.00		3	Various	All Projects in construction, QA	NRDOT Construction Monitoring	A Direct Service
			\$0.00		-	Various	Design & construction Access Roads	NHA Housing Access	A Direct Service
			\$1.00		3	Various	Projects for on-going construction	NRDOT Construction	A Direct Service
		_	_			_	TATOMIACH HOLDS OF CHAMICOS MAY OH A A CTAOMS A MANCO	_	

### Fiscal Year 2031 Final Update

Navajo Nation Council's Transportation and Community Development Committee 40 Yoar Pian-INDIAN RESERVATION ROADS PROGRAM

First Yr Sch for Const 2012 2017 2017 2012 2014 2017 2006 NDOT EXHIBIT A 8/14/2009 N/A S0 N/A N/A N/A Low Low Low High Low High NA ADT Current 125 78 29 3106 225 228 258 N/A N/A PLHD Agency Project in Funding Inventory Chinle
Chinle
Chinle
Western
Western
Western
Area \$0.00 Const Est. Cost IRR IRRBP
Type Million(1) Funding Funding \$0.00 \$0.00 \$3.00 \$0.14 \$0.62 \$0.62 \$0.62 \$0.62 \$0.62 \$0.62 \$9.75 \$7.34 \$6.90 \$6.41 \$11.05 \$0.00 \$0.00 \$1.20 \$0.50 Total Estimated Amount
Projected Funding Amount based on FY-2008 Funding
Balance 12.07 GDG 15.93 GDGB 9.33 GDG 6.76 GDS 21.89 RC 13.68 GD Length Length Miles Kilometers 7.50 9.90 5.80 4.20 13.60 N/A Various Various N/A ABCD ABCD ABCD ABCD BCD ABCD V/Z Non Project Inherent Federal Function
Modifications & Bulances due on Previous Funded
Projects for one-going construction
Design & construction Acress Roads
All Projects in construction, Que A/E Contracts & In-house for all projects Rough rock to NS9
Kitsili West to N806 w/N023
Wheatifieds around the Lake
Kayenta to US 160
Copper Mine/LeChee to Page Rehab Transit Facility Project under PL93-638 Kayenta to N59 Region wide safety projects Project Name/Description Task Orders NRDOT Construction
NIA Housing Access
NRDOT Construction Monitoring
NN Right-of-Way
NN Archeology HPD
NN Archeology
T Non-project Related Transportation Planning Chip Sealing NRDOT Planning, Survey, Design, Maintenance Projects 204(b) Transit \* N8090(1)2,3 N8065(1)1,2,3 N8080(1)2,3 N6485(2)2,4 N20(1-1)2&4 N591(1)2,3 NEPA, R/W Project No. Fiscal Year 2031 BIA Direct Service BIA Direct Service P.L. 93-638 P.L. 93-638 BIA Direct Service BIA Direct Service BIA Direct Service Route No.

Legend and Comments

A ROW Needed

B Environmental Assessment Needed

C Archeological Clearance Needed D Surveying Data Needed

E Construction Easement Needed F Design Completed G Design Plans Revision Needed H Design in Progress

R Pavement Rehabilitation
CS Chip Scaling
GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction
PR Pavement Resurfacing
BR Bridge Reconstruction

\*\* Proposed Force Account Project
CY Project Carry Over from Prior Year TTIP
§ Buy-Indian Project

\* Proposed Public Law 93-638 Project

GD Grade and Drain Construction
GDG Grade, Drain, and Gravel Construction
GDS Grade, Drain, and Surfacing (Pavement) Construction

RC Reconstruction

I Under Construction J Eligibility to be determined K Pending Request for Proposal TS Transit Project

U Utility Relocation Needed W Within Existing ROW

£ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA.

(1) Excluding Funds from other sources
(2) May be used to supplement Road Maintenance Funding as authorized by TCDC
SS Transportation Funding for Inventory Updates and other approved by TCDC
M Road Maintenance Project

W Major ROW, Utility, Archeolocial, etc., Problem Q Arthological Clearance is Questionable Dartally Funded Partally Funded ++ Critical Pavement Rehabilitation Work Needed

NDOT Ranking:

N/A Not Aplicable. Project is on ARC List

N/A Not Aplicable. Project is not on ARC List

Navajo Nation Tribal Transportation Improvement Program (TTIP)
Fiscal Year 2032 Final Update
Navajo Nation Council's Transportation and Community Development Committee
40 Year Plan-INDIAN RESERVATION ROADS PROGRAM

							1	int \$61.21	Total Estimated Amount	Total Estin					
								\$1.50			Various		Task Orders	NN Archeology	P.L. 93-638
								\$0.78			Various		Administration under 638	NN Archeology HPD	P.L. 93-638
							_	\$0.14			Various		Consents and ROW Document Processing	NN Right-of-Way	P.L. 93-638
								\$3.00			Various		All Projects in construction, QA	NRDOT Construction Monitoring	BIA Direct Service
								\$0.00			Various		Design & construction Access Roads	NHA Housing Access	BIA Direct Service
						•		\$1.50			Various		Funded Projects for on-going construction	NRDOT Construction	BIA Direct Service
													Modifications & balances due on Previous		
								\$0.50			N/A	N/A	Non Project Inherent Federal Function	Non-project Related Transportation Plannins	BIA Direct Service
						•	-	\$1.38			Various		A/E Contracts & In-house for all projects	NRDOT Planning, Survey, Design, NEPA, R/W	BIA Direct Service
							full	\$0.00	CS	0.00	0.00	D	Various	Chip Sealing	
		N/A	N/A	N/A		Area	full	\$0.00				TS	Transit Facility Project under PL93-638	204(b) Transit*	Area Wide
2006		N/A	High	N/A	Yes	Region	full	\$0.00	Z	N/A	N/A	BD	Region wide safety projects	Maintenance Projects	Various
2011	10		Low	500	Yes	Western	full	\$6.55	GDG	12.87	8.00	ABCD	Halgaitoh Road	N6440(2)2,3	N6440
2017	11		Low	31	Yes	Chinle	full	\$7.78	GDG	15.29	9.50	ABCD	N8077 toward Del Muerto Canyon	N8089(1)2,3	N8089
2010	16		Low	62	Yes	Eastern	full	\$2.23	ŒD	9.66	6.00	th ABCDU	NM371 to Lake Valley NHA Housing Acc South   ABCDU	N7059(1)2,3	N7059
2011	14		Low	209	County	Eastern	) full	\$2.30	Œ	9.98	6.20	ABCDU	NM371 to Lake Valley NHA Housing North	N10(1)2,3	N10/CR7750
2013	10		Low	96	County	Eastern	full	\$6.89	GDG	8.53	5.30	ABCD	Littleboy Road, NM371 To Becenti	N7114(1)2&3	N7114
2013	14		Low	266	Yes	Fort Def	2 full	\$9.02	GDG	22.53	14.00	ABCDU	Oak Springs to Greasewood	N28(1)2,3	N28
2010	18		Low	131	Yes	Ft. Def	full	\$17.65	GDS	14.81	9.20	ABCD	Pine Springs to SR 264	N9010(2)2,4	N9010
		_			_										
Sch for Const	Ranking	Rating	Need	Current	Inventory		Funding	Million(1)	3 Type	Kilometers	Miles				
First Yr	NDOT	Pavement	Safety	ADT	Project in	Agency	IRR	Est. Cost	Const	Length	Length	Comment	Project Name/Description	Project No.	Route No.
		8/14/2009													
		EXHIBIT A													Fiscal Year 2032

Projected Funding Amount based on FY-2008 Funding
Balance

\$1.50 \$0.00 \$3.00 \$0.14 \$0.78 \$1.50 \$61.21 61.00

A ROW Needed	GD Grade and Drain Construction	NDOI Ranking:
B Environmental Assessment Needed	GDG Grade, Drain, and Gravel Construction	N/A Not Aplicable, 1
C Archeological Clearance Needed	GDS Grade, Drain, and Surfacing (Pavement) Construction	N/A Not Aplicable. Project is not on ARC List
D Surveying Data Needed	RC Reconstruction	
E Construction Easement Needed	R Pavement Rehabilitation	
F Design Completed	CS Chip Sealing	
G Design Plans Revision Needed	GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction	
H Design in Progress	PR Pavement Resurfacing	
I Under Construction	BR Bridge Reconstruction	
J Eligibility to be determined	* Proposed Public Law 93-638 Project	
K Pending Request for Proposal	** Proposed Force Account Project	
TS Transit Project	CY Project Carry Over from Prior Year TTIP	
U Utility Relocation Needed	§ Buy-Indian Project	
W Within Existing ROW	£ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA	ansferred to BIA.
¥ Major ROW, Utility, Archeolocial, etc., Problem	(1) Excluding Funds from other sources	
Q Archeological Clearance is Questionable	(2) May be used to supplement Road Maintenance Funding as authorized by TCDC	
(!) Partially Funded	S Transportation Planning for Inventory Updates and other approved by TCDC	
++ Critical Pavement Rehabilitation Work Needed	M Road Maintenance Project	

Navajo Nation Tribal Transportation Improvement Program (TTIP)
Fiscal Year 2033 Final Update
Fiscal Year 2035 Final Update
Navajo Nation Council's Transportation and Community Development Committee
40 Year Plan-INDIAN RESERVATION ROADS PROGRAM

Fiscal Year 2033												a	EXHIBIT A		
													8/14/2009		
Route No.	Project No.	Project Name/Description	Comment	Length	Length	Const	Est. Cost	IRR	Agency	Project in	ADT	Safety	Pavement	NDOT	First Yr
					Kilometers	Type	Million(1)	Funding		Inventory	Current	Need	Rating	Ranking	Sch for Const
N8063	N8063(1)1,2,3	Little Rough Rock N12 to N13	ABCD	7.10	11.43	CDS	\$6.31	[In]	Chinle	Yes	87	Low		12	2017
NS47	N547(1)2,3	Farm Lane Road	ABCDU	1.80	2.90	ene	\$0.70	[In]	Northern	Yes	63	Low		19	2013
N549	N549(1)2,3	Farm Lane Road	ABCDU	1.90	3.06	GDG	\$0.74	[In]	Northern	Yes	99	Low		13	2013
N550	N550(1)2,3	Farm Lane Road	ABCDU	1.90	3.06	SDG	\$0.74	[In]	Northern	Yes	89	Low		15	2013
N364	N36(3-2)4	Farm Mesa Road Chip Seal	BDW	7.10	11.43	SC	\$3.44	[In]	Northern	Yes	840	Low		23	2017
N481/N7119	N481(1)/N7119(1)2&3	Littlewater Chapter Access	BCDQ	3.50		GDG	\$1.37	[In]	Eastern	NDOT	243	Low		18/22	2013
NS8	N58(1)2	N57 northeast to CR334	ABCD	9.70	15.61	GD	\$2.27	[In]	Eastern	Yes	54	Low		9	2014
N100	N100(1-1)2&4	Window Rock Streets	CDUW	3.00	4.83	CDS	\$6.09	lnJ	Fort Def	Yes	8000	High		39	2013
N101	N101(7-2)4	Tuba City Main Ext to N608, Birch & Fir	BDW	1.50	2.41	~	\$3.05	lnJ	Western	Yes	8265	Low N	N/A	23	2014
91N	N16(8)2&3	US160 to SR98	ABCDU	7.00	11.27	SDG	\$5.73	lnJ	Western	Yes	370	Low		20	2009
N4000	N4000 BIK II & III	NIIP rehab	BD	15.00	99.6	~	\$22.50	lnJ	NIIP	Yes	N/A	Low			2007
Various	Maintenance Projects	Region wide safety projects	BD	N/A	N/A	M	\$0.00	full	Region	Yes	N/A	High	N/A		2006
Area Wide	204(b) Transit*	Transit Facility Project under PL93-638	LS				\$0.00	full	Area		N/A	N/A	N/A		
	Chip Sealing		D	0.00	0.00	S	\$0.00	full							
BIA Direct Service	NRDOT Planning, Survey, Design, NEPA, R/W	A/E Contracts & In-house for all projects		Various			\$1.20				•				Ī
BIA Direct Service	Non-project Related Transportation Planning	Non Project Inherent Federal Function	N/A	N/A			\$0.50								
		Modifications & balances due on Previous Funded													
BIA Direct Service	NRDOT Construction	Projects for on-going construction		Various			\$1.30								
BIA Direct Service	NHA Housing Access	Design & construction Access Roads		Various			\$0.00								
BIA Direct Service	NRDOT Construction Monitoring	All Projects in construction, QA		Various			\$3.00								
P.L. 93-638	NN Right-of-Way	Consents and ROW Document Processing		Varions			\$0.14								
P.L. 93-638	NN Archeology HPD	Administration under 638		Varions			\$0.78								
P.L. 93-638	NN Archeology	Task Orders		Various			\$1.14								
					Total Estima	Fotal Estimated Amount	\$61.01								
			Projected Funding Amount based on FY-2008 Funding	ing Amount ba	ased on FY-20	908 Funding	61.00								
						Balance	-\$0.01								

Legend and Comments A ROW Needed

B Environmental Assessment Needed
C Archonigical Chemicus Needed
D Surveying Dua Needed
E Construction Easement Needed
F Design Drompted
G Design Plans Revision Needed
G Design Plans Revision Needed
H Design in Progress
I Under Construction
J Eligibility to be determined
K Pending Request for Proposal
TY Transit Project
U Utility Redocation Needed
W Within Existing ROW
V Major ROW, Utility, Archeolocial, etc., Problem
Q Archeological Chemines is Questionable
(!) Partially Funded
++ Critical Pavement Rehabilitation Work Needed

GD Grade, Drain, and Gravel Construction
GDG Grade, Drain, and Gravel Construction
GDG Grade, Drain, and Surfacing (Pavement) Construction
RC Reconstruction
RC Reconstruction
R Pavement Relabilitation
R C Chip Scaling
GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction
R Pavement Resurfacing
R Bridge Reconstruction
R Bridge Reconstruction, ROW needs to be transferred to BIA.
(1) Excluding Funds from other sources
(2) May be used to supplement Road Maintenance Funding as authorized by TCDC
S Transportation Planning for Inventory Updates and other approved by TCDC
M Road Maintenance Project

NDOT Ranking:

N/A Not Apleable Project is on ARC List

N/A Not Apleable, Project is not on ARC List

Project is already listed on prior year

### Navajo Nation Tribal Transportation Improvement Program (TTIP) Fiscal Year 2034 Final Update Navajo Nation Council's Transportation and Community Development Committee

Pian- INDIAN RESERVATION ROADS PROGRAM	The state of the s

	P.L. 93-638	P.L. 93-638	BIA Direct Service	BIA Direct Service	BIA Direct Service		BIA Direct Service	BIA Direct Service		Area Wide	Various	N3005	N9652	N125	N112	N5063	N8062			Route No.		Fiscal Year 2034	
Legend and Comments A ROW Needed B Environmental Assessment Needed C Archotological Clearance Needed D Surveying Dain Needed	NN Archeology	NN Archeology HPD	NRDOT Construction Monitoring	NHA Housing Access	NRDOT Construction		Non-project Related Transportation Planning	NRDOT Planning, Survey, Design, NEPA, R/W	Chip Sealing	204(b) Transit*	Maintenance Projects	N3005(1)4	N9652(2)2	N125(1)2	N112(3)1,2,4	N5063(1)1,2,3	N8062(1)2,3			Project No.		4	
	Task Orders	Consents and ROW Document Processing Administration under 638	All Projects in construction, QA	Design & construction Access Roads	Projects for on-going construction	Modifications & balances due on Previous Funded	Non Project Inherent Federal Function	A/E Contracts & In-house for all projects	Various	Transit Facility Project under PL93-638	Region wide safety projects	Blk 2&5 to Blk 3 Chip Sealing	US491 to Whiterock	Sawmill to Fort Defiance	N7 to Navajo N12	N12 to Montezuma Creek	N8031 to Black Spot			Project Name/Description			
Projected   GDG GDG RC							N/A		D	TS	BD	BDW	ABCDU	ABCD	ABCDU	ABCD	ABCD			Comment			
led Funding Amount  GD Grade and Drai  DG Grade, Drain, a  3DS Grade, Orain, a	Various	Various Various	Various	Various	Various		N/A	Various	0.00		N/A	13.92	10	4.50	7.30	17.60	11.00		Miles	Length			
									0.00		N/A	22.40	16.09	7.24	11.75	28.32	17.70		Kilometers	Length			
Surfacing (Pavement) Construction  Surfacing (Pavement) Construction  Gravel Construction  Gravel Construction  Gravel Construction									CS		М	CS	GD	G	GDBS	GDS	GDG	***	Type	Const			
\$61.21 61.00 -\$0.21 onstruction	\$1.00	\$0.14 \$0.78	\$3.00	\$0.00	\$1.00		\$0.50	\$1.20	\$0.00	\$0.00	\$0.00	\$1.39	\$13.00	\$5.85	\$12.50	\$11.83	\$9.01		Million(1)	Est. Cost			
									full	full	full	full	full	full	full	full	full		Funding	IRR			
\$0.00																			Funding	IRRBP			
\$0.00																			Funding	DLHD			
z										Area	Region	NIIP	Fort Def	Fort Def	Ft. Def.	Northern	Chinle			Agency			
NDOT Ranking: N/A Not											Yes	Yes	Yes	Yes	Yes	Yes	Yes	╬		Project in			
ing: Not Aplicable. Project is on ARC List Not Aplicable. Project is not on ARC List										N/A	N/A	N/A	15	574	2458	107	134		Current	ADT			
roject is on Al										NA	High	Low	Low	Moderate	Low	Low	Low	ł	Need		_	E	
RC List										N/A	N/A							╁	_	Pavement	8/14/2009	EXHIBIT A	
													20	26	21	18	12	4	Ranking Sc	NDOT			
											2006	2017	2014	2013	2011	2009	2017		Sch for Const	First Yr			

++ Critical Pavement Rehabilitation Work Needed	(!) Partially Funded	Q Archeological Clearance is Questionable	¥ Major ROW, Utility, Archeolocial, etc., Problem	W Within Existing ROW	U Utility Relocation Needed	TS Transit Project	K Pending Request for Proposal	J Eligibility to be determined	I Under Construction	H Design in Progress	G Design Plans Revision Needed	F Design Completed	E Construction Easement Needed	D Surveying Data Needed	C Archeological Clearance Needed	B Environmental Assessment Needed	A NOW Needed
>	88	(2	1	240		2	***		ВИ	P	GDSB	S	=	RC	GDS	GDG	9

RC Reconstruction
R Pavement Rahabilitation
CS Chip Scaling
GNB Grade, Drain, Surfacing (Pavement), & Bridge Construction
PR Pavement Resurfacing
PR Bridge Reconstruction
PR Pavement Resurfacing
BR Bridge Reconstruction
\* Proposed Force Account Project
\*\* Proposed Force Account Project
CY Project Carry Over from Prior Year THIP
\$ Buy-Indian Project
CY Project Carry Over from Prior Year THIP
\$ Buy-Indian Project
(C) Review of the Supplement Road Mantes and Construction, ROW needs to be transferred to BIA.
(1) Excluding Funds from other sources
(2) May be used to supplement Road Mantes and other approved by TCDC
\$ Transportation Planning for Inventory Updates and other approved by TCDC
M Road Maintenance Project

## Navajo Nation Tribal Transportation Improvement Program (TTIP) Fiscal Year 2035 Final Update Navajo Nation Council's Transportation and Community Development Committee 40 Year Pian- INDIAN RESERVATION ROADS PROGRAM

### Fiscal Year 2035

				2											
Fiscal Vear 2035												Ē	EXHIBIT A		
													6/14/2000		
												ľ	6/14/7002		
Route No.	Project No.	Project Name/Description	Comment	_	Length	Const	Est. Cost	IRR	Agency	Project in	ADT	Safety	Pavement	NDOT	First Yr
				Miles	Kilometers	Type	Million(1)	Funding		Inventory	Current	Need	Rating	Ranking	Sch for Const
05N	N59(4-2)(5-2)4	US160 to Agency Line w/ Chilchinbeto Chip Seal	CDW	25.00	_	S	\$11.78	lluJ	Western	Yes	NA	Low	99	42	2024
N221	N221(1-1)2&4	Shonto School Access Rehab	CDW	4.50	7.24 I	R	\$7.40	lluJ	Western	Yes	1368	Low	30	44	2024
N609/N614	N609(1-1)/N614(1-1)2&4	Kerley Street & Navajo Blvd - Tuba City Rehab	CDW	1.43	2.30 I	R	\$0.99	lluJ	Western	Yes	2018?	Low	30	52	2024
N101	Tuba City Streets	Tuba City Streets Chip Seal	CDW	5.20		S	\$0.52	lluJ	Western	Yes	N/A	Low	99		2024
N112	N112(4)1,2,4	N7 to Navajo N12	ABCDU	4.60	7.40	GDBS	\$8.06	lluJ	Ft. Def.	Yes	2458	Low		21	2011
N9652	N9652(3)2	US491 to Whiterock	ABCDU	11.1	17.86	æ	\$14.43	lluJ	Fort Def	Yes	15	Low		20	2014
0908N	N8060(1)2,3	N8031 to East Twin Mesa	ABCD	4.90	7.89	GDG	\$6.37	lluJ	Chinle	Yes	54	Low		16	2017
N36	N36(6B-1)4	SR371 to Reservation Line	BDW	1.50	2.41 I	R	\$0.77	[In]	Northern	Yes	4790	Low	>20	59	2017
N36	N36(7B-3)4	APS Overpass	BDW	1.10	1.77	R	\$0.56	lluJ	Northern	Yes	2999	Low	>70	34	2017
Various	Maintenance Projects	Region wide safety projects	BD	N/A	N/A N	M	\$0.00	lluJ	Region	Yes	N/A	High	N/A		2006
Area Wide	204(b) Transit*	Transit Facility Project under PL93-638	LS				\$0.00	lluJ	Region		N/A	N/A	N/A		
	NRDOT Planning, Survey,								•		•			•	
BIA Direct Service	Design, NEPA, R/W	A/E Contracts & In-house for all projects		Varions			\$1.42								
	Non-project Related														
BIA Direct Service	Transportation Planning	Non Project Inherent Federal Function	N/A	N/A			\$0.50								
		Modifications & balances due on Previous Funded													
BIA Direct Service	NRDOT Construction	Projects for on-going construction		Varions			\$2.50								
BIA Direct Service	NHA Housing Access	Design & construction Access Roads		Varions			\$0.00								
	NRDOT Construction														
BIA Direct Service	Monitoring	All Projects in construction, QA		Varions			\$3.00								
P.L. 93-638	NN Right-of-Way	Consents and ROW Document Processing		Various			\$0.14								
P.L. 93-638	NN Archeology	Administration under 638		Varions			\$0.78								
P.L. 93-638	NN Archeology	Task Orders		Various			\$2.00								
					Total Estimated Amount	ited Amount	\$61.21								
			Projected Funding Amount based on FY-2008 Funding	ng Amount b	ased on FY-2	008 Funding	61.00								
						Balance	-\$0.21								

Legend and Comments

A ROW Needed

GD Grade and Drain Construction
GDG Grade, Drain, and Gravel Construction
GDS Grade, Drain, and Surfacing (Pavement) Construction
RC Reconstruction

A NO. TREADUR

B Environmental Assessment Needed
C Archeological Chemree Needed
D Surveying Data Needed
E Construction Easement Needed
F Design Completed
G Design in Progress
H Design Plans Revision Needed
J Eligibility to be determined
K Perding Request for Proposal
I Under Construction
J Eligibility to be determined
K Perding Request for Proposal
I's Transis Project
U Utility Redocation Needed
W Within Existing ROW
Within Existing ROW
P Major ROW, Utility, Archeolocial, etc., Problem
Q Archeological Cherannee is Questionable
(!) Partially Funded
++ Critical Pavement Rehabilitation Work Needed

NDOT Ranking:

NA Not Aplicable, Project is on ARC List

NA Not Aplicable, Project is not on ARC List

R Pavement Rehabilitation
(CS blip) Sealing
(GDB Grade, Drain, Surfacing (Pavement), & Bridge Construction
(R Pavement Resurfacing
(BR Bridge Reconstruction
R R Pavement Resurfacing
R Bridge Reconstruction
R Proposed Patie Law 93-638 Project
Proposed Patie Law 93-638 Project
Project Carry Over from Project
(CY Project Carry Over from Prior Year TTIP
S Bay-Indian Project
(P Evolgent Carry Over from Prior Year TTIP
S Bay-Indian Project
(D Schoding Punds from other sources
(D May be used to supplement Read Maintenance Project
(2) May be used to supplement Read Maintenance Project
M Road Maintenance Project

## Navajo Nation Tribal Transportation Improvement Program (TTIP) Fiscal Year 20.36 Final Update Navajo Nation Council's Transportation and Community Development Committee 40 Year Plan- INDIAN RESERVATION ROADS PROGRAM

8/14/2009	XHIBIT A

			P.L. 93-638	P.L. 93-638	DIA Direct Service	BIA Direct Service	BIA Direct Service	BIA Direct Service	BIA Direct Service	Area Wide	Various	N4000	N548	N36	N704	N136	N151		Route No.	Fiscal Year 2036
E Construction Essentant Needed F Design Completed G Design Plans Revision Needed H Design in Frogress I Under Construction J Eligibility to be determined K Pending Request for Proposal TS Transit Project U Utility Relocation Needed W Within Esisting ROW Y Major ROW, Utility, Archeologial, etc., Problem Q Archeological Clearance is Questionable (i) Partially Funded c) Pertially Funded	Legend and Comments A ROW Needed B Environmental Assessment Needed C Archbedgefal Clearance Needed Security New York		NN Archaeology	NN Archeology	NN Dight of Way	NRDOT Construction Monitoring	NRDOT Construction	Non-project Related Transportation Planning	NRDOT Planning, Survey, Design, NEPA,	204(b) Transit*	Maintenance Projects	N4077/N4080/N4081/N4103/ N4109/N4011(1-1)2,4	N548(1)2,3	N36(5A-1)4	N704(1)2&4	N136(1)1,2&4	N151(1)2		Project No.	
lem			Task Orders	Administration under 638	Concents and POW Document Processing	Design & construction Access Roads  All Projects in construction OA	Modifications & balances due on Previous Funded Projects for on-going construction		A/E Contracts & In-house for all projects	Transit Facility Project under PL93-638	Region wide safety projects	NIIP Blk 2&3 Rehabilitation	Farm Lane Road	US491 to Chaco Wash	Dzil-Na-O-Dith-hle School Access	St. Isabel Mission Rd w/ N009	US191 to Cornfields		Project Name/Description	
RR GDSB PR BR PR S S S S S S S S S S S S S S S S S S	GD GDG	Total Estimated Amount Projected Funding Amount based on FY-2008 Funding						N/A		TS	BD	BDW	ABCDU	BDW	ABCDU	ABCD	ABCD		Comment	
R Payement Rehabilitation R Payement Rehabilitation CS Chip Scaling CS Chip Scaling SB Grade, Drain, Surfacing (Pavement), & Br PR Payement Resurfacing BR Bridge Reconstruction * Proposed Forbic Law 93-63 Project ** Proposed Force Account Project CY Project Carry Over from Prior Year TTIP § Buy-Indian Project C Project Designed by School Consultant, BI C Project Designed by School Consultant, BI C Excluding Funds from other sources (2) May be used to supplement Road Mainten S Transportation Planning for Inventory Up M Road Maintenance Project	GD Grade and Drain Construction GDG Grade, Drain, and Gravel Construction GDS Grade, Drain, and Surfacing (Pavement DC December 4)	ding Amount	Various	Various	Various	Various	Various	N/A	Various		N/A	18.56	2.20	7.40	0.50	2.90	10.10	Miles	Length	
Surfacing (Pa urfacing truction itc Law 93-638 itc Law 93-638 over from Project deathy School- ded by School- ded by School- ded by School- ded From other of Planning for ance Project	ain Construct and Gravel C and Surfacing	Total Estim									N/A	29.87	3.54	11.91	0.80		16.25	Kilometers	Length	
vvement), & B Project gjet ior Year TTI Consultant, B - sources Road Mainter	ion ionstruction g (Pavement)	Fotal Estimated Amount sed on FY-2008 Funding									M	RC	GDG	R	GDS	GDSB	GD	Lype	Const	
R Payement Rebuiltation CS Chip Scaling GS Chip Scaling GS Chip Scaling GS Chip Scaling GS Grade, Drain, Surfacing (Pavement), & Bridge Construction PR Pavement Resurfacing BR Bridge Reconstruction * Proposed Force Account Project ** Proposed Force Account Project ** Project Carry Once from Prior Year TTIP § Buy-Indian Project ** Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA. (1) Excluding Funds from other sources (2) May be used to supplement Road Maintenance Funding as authorized by TCDC §\$ Transportation Planning for Inventory Updates and other approved by TCDC M Road Maintenance Project	GD Grade, Drain, and Gravel Construction GDS Grade, Drain, and Gravel Construction GDS Grade, Drain, and Surfacing (Pavement) Construction GDS Grade, Drain, and Surfacing (Pavement)	\$61.21 61.00	\$1.25	\$0.78	\$0.00	\$0.00	\$2.00	\$0.50	\$1.20	\$0.00	\$0.00	\$27.84	\$2.64	\$3.77	\$0.75	\$5.22	\$12.12	Million(1)	Est. Cost	
tion Instruction, Reastruction, Reastruction										full	full	full	full	full	full	full	full	Funding	IRR	
ROW needs to l										Area	Region	NIIP	Northern	Northern	Eastern	Chinle	Ft. Def		Agency	
be transferred											Yes		Yes	Yes	Yes	Yes	Yes	Inventory	Project in	
to BIA.										N/A	N/A	N/A	85	1468	2366	211	363	Current	ADT	
	NDOT Ranking: N/A No N/A No									N/A	High	Low	Low	MoT	Low	Low	Low	Need	Safety	
	ing: Not Aplicabl Not Aplicabl									N/A	N/A							Kaung	Pavement	EXHIBIT A 8/14/2009
	sing: Not Aplicable, Project is on ARC List Not Aplicable, Project is not on ARC												13	29	24	12	26	Kanking	NDOT	
	ng: Not Aplicable, Project is on ARC List Not Aplicable, Project is not on ARC List										2006	2012	2013	2017	2013	2017	2017	Sen for Const	First Yr	

Navajo Nation Tribal Transportation Improvement Program (TTIP)
Fiscal Year 2037 Final Update
Navajo Nation Council's Transportation and Community Development Committee
40 Year Plan- INDIAN RESERVATION ROADS PROGRAM

EXHIBITA

Fiscal Year 2037

First Vr	Sc	2014	2013	2017	2014	2017	2011	2006			,														Not Aplicable, Project is on ARC List	Not Anlicable Project is not on ADC I jet	S HOW OIL CARCO LAIST													
NDOT	Ranking	10		11	21																				. Project is	Project is	a malari.													
Pavement	Rating				N/A			N/A	N/A																Not Aplicable	Jot A plicoble	tot apareame													
Safety	Need	Low	Low	Low	Low	Low	Low	High	N/A															NDOT Ranking:	N/A												BIA.			
ADT	Current	275	534	28	89	N/A	;	N/A	N/A																												insferred to			
Project in	Inventory	Yes	Yes	Yes	Yes	Yes	Yes	Yes																													eeds to be tra		DC.	ž
Agency	r.gene)	Eastern	Eastern	Chinle	Western	NIIP	NIIP	Region	Area																												ion, ROW m		orized by TC	oved by TCI
IRR	Funding	Inj	Inj	[In]	Inj	Inj	[In]	Inj	[In]	fu]]																ion.				struction							m Construct		ding as auth	l other appr
Fet. Cost	Million(1)	\$11.88	\$11.70	\$11.33	\$5.70	\$9.42	\$2.57	\$0.00	\$0.00	\$0.00	\$1.20	\$0.50	9	80.00		\$3.00	\$0.14	\$0.78	\$1.50	\$61.22	61.00	-\$0.22			_	CDS Grade Drain and Surfacing (Payament) Construction	n) comparate			GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction					TIP		£ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA.		(2) May be used to supplement Road Maintenance Funding as authorized by TCDC	\$\$ Transportation Planning for Inventory Updates and other approved by TCDC M Road Maintenance Project
Const	Type	GDG	GDG	GDSB	GD	R	S	M		CS										ted Amount	08 Funding	Balance		ction	GDG Grade, Drain, and Gravel Construction	nor (Povomon	ng (ravennen			Pavement), &			38 Project	roject	CY Project Carry Over from Prior Year TTIP		ol Consultant	er sources	ıt Road Main	or Inventory t
Length	Kilometers	15.93	14.48	2.90	12.23	32.19	10.83	N/A		0.00										Total Estimated Amount	sed on FY-20			GD Grade and Drain Construction	and Gravel	and Surfaci	, and surrace	habilitation		, Surfacing (	surfacing	struction	* Proposed Public Law 93-638 Project	** Proposed Force Account Project	Over from	roject	ned by Schoo	(1) Excluding Funds from other sources	to supplemer	\$\$ Transportation Planning for Road Maintenance Project
Length		9.90	9.00	13.30	09.7	20.00	6.73	N/A		0.00	Various	N/A		Various		Various	Various	Various	Various		g Amount ba			rade and Di	rade, Drain	rode Droin	RC Reconstruction	R Pavement Rehabilitation	CS Chip Sealing	rade, Drain	PR Pavement Resurfacing	<b>BR</b> Bridge Reconstruction	roposed Pub	roposed For	roject Carry	§ Buy-Indian Project	roject Desig	xcluding Fu	fay be used	ransportatic toad Mainter
Comment	Commen	ABCD	DW	ABCD	ABCDU	BDW	BDW	BD	LS	D		N/A									Projected Funding Amount based on FY-2008 Funding			GD	CDC	SUS	RCI	R	S	GDSB (	PR I	BRI	*	**	CYI	8	Ŧ	Ξ	(5)	Z X
Project Name/Description	Tologo various control various	Canoncito School to CR334	NM602 to Chichiltah	N27 to N7 Nazlini	Grand Falls to N15		south to Blk 8	ty projects	Transit Facility Project under PL93-638	Various	A/E Contracts & In-house for all projects	Non Project Inherent Federal Function		Design & construction Access Roads	D	All Projects in construction, QA	Consents and ROW Document Processing	Administration under 638	Task Orders		Proje				papaa	Pol		75										ocial, etc., Problem	restionable	tion Work Needed
Project No.	· or inform	N57(1)2,3	N7044(1)2&3	N8015(1)1,2,3	N70(3)2	N4000 Series	N4062(1-1)/N4065(1-1)4	Maintenance Projects	204(b) Transit *	Chip Sealing	NRDOT Planning, Survey, Design, NEPA, R/W	Non-project Related Transportation Planning	D LOUIN	NHA Housing Access	NRDOT Construction	Monitoring	NN Right-of-Way	NN Archeology	NN Archeology				Legend and Comments	A ROW Needed	B Environmental Assessment Needed	C Archadonical Clearance Needed	D Surveying Data Needed	E Construction Easement Needed	F Design Completed	G Design Plans Revision Needed	H Design in Progress	I Under Construction	J Eligibility to be determined	K Pending Request for Proposal	TS Transit Project	U Utility Relocation Needed	W Within Existing ROW	¥ Major ROW, Utility, Archeolocial, etc., Problem	Q Archeological Clearance is Questionable	(1) Partially Funded ++ Critical Pavement Rehabilitation Work Needed
Route No.		NS7	N7044	N8015	N70	N4000	N4062/N4065	Various	Area Wide		BIA Direct Service	BIA Direct Service		BIA Direct Service		BIA Direct Service	P.L. 93-638	P.L. 93-638	P.L. 93-638																					

# Navajo Nation Tribal Transportation Improvement Program (ITIP) Fiscal Year 2038 Final Update Navajo Nation Council's Transportation and Community Development Committee 40 Year Plan- INDIAN RESERVATION ROADS PROGRAM

Fiscal Year 2038

8/14/2000	EXHIBIT A

						•		-\$0.21	Balance						
								61.00	2008 Funding	based on FY-	ing Amount	Projected Funding Amount based on FY-2008 Funding	P		
								\$61.21	Total Estimated Amount	Total Estim					
								\$1.50			Various		Task Orders	NN Archeology	P.L. 93-638
								\$0.78			Various		Administration under 638	NN Archeology	P.L. 93-638
								\$0.14			Various		Consents and ROW Document Processing	NN Right-of-Way	P.L. 93-638
								\$3.00			Various		All Projects in construction, QA	Monitoring	BIA Direct Service
														NRDOT Construction	
								\$0.00			Various		Design & construction Access Roads	NHA Housing Access	BIA Direct Service
								\$1.07			Various		Projects for on-going construction	NRDOT Construction	BIA Direct Service
													Modifications & balances due on Previous Funded		
								\$0.50			N/A	N/A	Non Project Inherent Federal Function	Transportation Planning	BIA Direct Service
														Non-project Related	
								\$1.20			Various		A/E Contracts & In-house for all projects	Design, NEPA, R/W	BIA Direct Service
														NRDOT Planning, Survey,	
												D	Various	Chip Sealing	
								\$0.00				TS	Transit Facility Project under PL93-638	204(b) Transit	Area Wide
21		N/A	High	N/A	Yes	Region	full	\$0.00	M	N/A	N/A	BD	Region wide safety projects	Maintenance Projects	Various
21	19		Low	161	Yes	Ft. Def	full	\$11.03	GD	23.66	14.70	ABCD	US191 to Sunrise	N9205(1)2	N9205
21	14		Low	92	Yes	Fort Def	full	\$10.71	GDBS	9.90	6.15	ABCDU	US191 East to N9010	N28(2)1,2,4	N28
21	14	<50	Low	257	Yes	Chinle	full	\$10.56	GDG	14.16	8.80	ABCD	Many Farms to Chinle	N8086(1)2,3	N8086
21	32		Low	298	tribe	Western	full	\$16.44	GDS	16.09	10.00	ABCDW	Chinle Agny Line to US160	N41(2)2&4	N4I
21	28		Low	1468	Yes	Northern	full	\$4.28	R	13.52	8.40	BDW	Chaco Wash to Nenahnezad	N36(5B-1)(7B-1)4	N36
Sch fo	Ranking	Rating	Need	Current	Inventory		Funding	Million(1)	Type	Kilometers	Miles				
Fin	NDOT	Pavement	Safety	ADT	Project in	Agency	IRR	Est. Cost	Const	Length	Length	Comment	Project Name/Description	Project No.	Route No.
		0/14/2002													

Peabody Owned Coal Lease Area

	M Road Maintenance Project	++ Critical Pavement Rehabilitation Work Needec
	\$\$ Transportation Planning for Inventory Updates and other approved by TCDC	(!) Partially Funded
	(2) May be used to supplement Road Maintenance Funding as authorized by TCDC	Q Archeological Clearance is Questionable
	(1) Excluding Funds from other sources	¥ Major ROW, Utility, Archeolocial, etc., Problem
be transferred to BIA.	£ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA	W Within Existing ROW
	§ Buy-Indian Project	U Utility Relocation Needed
	CY Project Carry Over from Prior Year TTIP	T Transit Project
	** Proposed Force Account Project	K Pending Request for Proposal
	* Proposed Public Law 93-638 Project	J Eligibility to be determined
	BR Bridge Reconstruction	I Under Construction
	PR Pavement Resurfacing	H Design in Progress
	GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction	G Design Plans Revision Needed
	CS Chip Sealing	F Design Completed
	R Pavement Rehabilitation	E Construction Easement Needed
	RC Reconstruction	D Surveying Data Needed
N/A Not Aplicable. Project is not on ARC List	GDS Grade, Drain, and Surfacing (Pavement) Construction	C Archeological Clearance Needed
N/A Not Aplicable. Project is on ARC List	GDG Grade, Drain, and Gravel Construction	B Environmental Assessment Needed
NDOT Ranking:	GD Grade and Drain Construction	A ROW Needed
		Legend and Comments

Navajo Nation Tribal Transportation Improvement Program (TTIP)

Fiscal Year 2039 Final Update
Navajo Nation Council's Transportation and Community Development Committee

40 Yoar Plan-INDIAN RESERVATION ROADS PROGRAM

Fiscal Year 2039 Route No.	Project No.	Project Name/Description	Comment	Length	40 Year P	Const	40 Year Pian-Indian RESERVATION ROADS PROGRAM Length Const Est. Cost RR Agency	IRR	PROGRAM	Project in	ADT	Safety	EXHIBIT A 8/14/2009 Pavement	NDOT	First Yr	
				Miles	Kilometers	Type	Million(1)	Funding		Inventory	Current	Need	Rating	Ranking	Sch for Const	st
N7049	N7049(2)2,3	UN Mine North to Standing Rock	ABCD	14.00	22.53	GD	\$5.47	full	Eastern	No No	227?	Low	NA		2017	
CRI	CRI	Defiance to Wildcat	ABCD	11.00			\$5.23	full	Eastern	County	747	Low		No Data	2013	
9808N	N8086(2)2,3	Many Farms to Chinle	ABCD	8.80	14.16	GDG	\$10.56	[In]	Chinle	Yes	257	Low	<50	41	2024	I
N28	N28(3)2,4	N12 West to N9010	ABCDU	9.45	15.21	GDS	\$15.54	[In]	Fort Def	Yes	139	Low		91	2017	
09N	N60(1-1)2&4	Dilcon to Teesto & Seba-Dalkai	CBD	5.6		CDS	\$9.21	[In]	Fort Def	Yes	529	Low		No Data	2014	I
N571	N571(1)2,3	US64 to Rattlesnake	ABCD	3.50		GDG	\$2.87	full	Northern	Yes	420	Low	NA	18	2017	
N332	N332(1)2,3	N33 to Blackhorse Wash	ABCD	5.30	8.53	6DG	£.32	[In]	Northern	Yes	48	Low	NA	18	2017	
- III	N41(1-1)4	Black Mesa Chip Seal	ABCD	12.90	20.76	cs	\$1.29	full	Western	Tribe	NA	Low	09	32	2022	
Various	Maintenance Projects	Region wide safety projects	BD	N/A	N/A	M	\$0.00	full	Region	Yes	N/A	High	N/A		2006	
Area Wide	204(b) Transit	Transit Facility Project under PL93-638	LS				\$0.00									
	Chip Sealing	Various	D													
BIA Direct Service	Design, NEPA, R/W	A/E Contracts & In-house for all projects		Varions			\$1.20									
	Non-project Related															
BIA Direct Service	Transportation Planning	Non Project Inherent Federal Function	N/A	N/A			\$0.50									
BIA Direct Couries	NRDOT Construction	Modifications & balances due on Previous Eunded Projects for on-aging construction		Vorione			9									
BIA Direct Service	NHA Housing Access	Design & construction Access Roads		Various			90.08									
	NRDOT Construction	0														
BIA Direct Service	Monitoring	All Projects in construction, QA		Varions			\$3.00									
P.L. 93-638	NN Right-of-Way	Consents and ROW Document Processing		Varions			\$0.14									
P.L. 93-638	NN Archeology HPD	Administration under 638		Varions			\$0.78									
P.L. 93-638	NN Archeology	Task Orders		Varions			\$1.10									
					Total Estimated Amount	ated Amount	\$61.22									
			Projected Funding Amount based on FY-2008 Funding	ding Amount l	ased on FY-2	2008 Funding	61.00									
						Balance	-\$0.22									
		Peabody Owned Coal Lease Area														
	Legend and Comments															
	A ROW Needed		GD G	GD Grade and Drain Construction	in Constructi	uo						NDOT Ranking:	.g:			
	B Environmental Assessment Needed	eeded	edg (	GDG Grade, Drain, and Gravel Construction	nd Gravel C	onstruction						N/A	Not Aplicable. Project is on ARC List	Project is on	ARC List	
	C Archeological Clearance Needed	led	GDS (	rade, Drain,	nd Surfacing	GDS Grade, Drain, and Surfacing (Pavement) Construction	Construction					N/A	Not Aplicable. Project is not on ARC List	Project is not	on ARC List	
	D Surveying Data Needed		RC I	RC Reconstruction												
	E Construction Easement Needed	pa pa	R	R Pavement Rehabilitation	bilitation											
	F Design Completed		3 8	CS Chip Sealing		9 (4	2									
	G Design Flans Revision Needed H Design in Progress	_	PR I	OSD Grade, Drain, Surfacin PR Pavement Resurfacine	enriacing (ra rfacino	vешепі), <b>«</b> Бг	ODSB Grade, Drain, Surfacing (ravement), & Bridge Construction PR Pavement Resurfacine									
	I Under Construction		BRI	BR Bridge Reconstruction	ruction											
	J Eligibility to be determined		*	* Proposed Public Law 93-638 Project	c Law 93-638	Project										
	K Pending Request for Proposal		**	** Proposed Force Account Project	Account Pro	ject										
	TS Transit Project		CYI	roject Carry	ver from Pr	CY Project Carry Over from Prior Year TTIP										
	U Utility Relocation Needed			§ Buy-Indian Project	ject	To the state of		-		-	110 -1					
	W Within Existing ROW  ¥ Major ROW Hillity, Archeologial, etc., Problem	ocial etc. Problem	7 =	* Project Designed by School Consult (1) Excluding Funds from other source	d by School of Is from other	consultant, bl.	* Project Designed by School Consultant, BIA perform Construction, KOW needs to be transferred to BIA. I) Excluding Funds from other sources.	struction, K	Ow needs to I	e transferred	to BIA.					
	Q Archeological Clearance is Questionable	sectionable	8	Aay be used to	supplement 1	Road Maintens	(2) May be used to supplement Road Maintenance Funding as authorized by TCDC	sauthorized	by TCD(							
_	(t) Partially Funded		£\$	ransportation	Planning for	Inventory Up	\$\$ Transportation Planning for Inventory Updates and other approved by TCDC	approved b	y TCDC							
7	++ Critical Pavement Rehabilitation Work Needed	ion Work Needed	M	toad Maintens	nce Project											

# Fiscal Year 2040 Final Update Navajo Nation Council's Transportation and Community Development Committee 40 Year Plan-INDIAN RESERVATION ROADS PROGRAM

			P.L. 93-638	P.L. 93-638	P.L. 93-638	BIA Direct Service		BIA Direct Service	BIA Direct Service		BIA Direct Service		BIA Direct Service			Area Wide	Various	N29	N60	N56	N57	N34		Route No.	T DOWN TOWN	Fiscal Vear 2040
			NN Archeology	NN Archeology HPD	NN Right-of-Way	Monitoring	NRDOT Construction	NHA Housing Access	NRDOT Construction			Non-project Related	Design, NEPA, R/W	NRDOT Planning, Survey,	Chip Sealing	204(b) Transit	Maintenance Projects	N29(3)2,3	N60(1-2)2&4	N56(1-2-3)2&4	N57(2)2&4	N34(1-1)4		Project No.	940	040
			Task Orders	Administration under 638	Consents and ROW Document Processing	All Projects in construction		Design & construction Access Roads	Projects for on-going construction	Modifications & balances due on Previous Funded	Non Project Inherent Federal Function		A/E Contracts & In-house for all projects		Various	Transit Facility Project under PL93-638	Region wide safety projects	Tachee Loop Road - Blue Gap	Dilcon to Teesto & Seba-Dalkai	Canoncito Access Widening	US64 to Gadiiahi NM Access	US491 to Sanostee		Project Name/Description		
	Projected Fu									ded	N/A				D	TS	BD	ABCD	CBD	BDW	ABCDU	BDW		Comment		
	ınding Amour		Various	Various	Various	Various		Various	Various		N/A		Various				N/A	24.00	5.6	7.81	7.20	9.20	Miles	Length		
	it based on F	Total Esti															N/A	2.90	9.01	12.57	11.59	14.81	Kilometers	Length		
Balance	Projected Funding Amount based on FY-2008 Funding	Total Estimated Amount															Μ	GDS	GDS	GDS	RC	RC	s Type	Const		
-\$0.21	1g 61.00	ıt \$61.21	\$0.50	\$0.78	\$0.14	\$3.00		\$0.00	\$0.00		\$0.50		\$1.23		\$0.00	\$0.00	\$0.00	\$19.66	\$9.21	\$11.72	\$10.80	\$3.68	Million(1)	Est. Cost		
															full	full	full	fill	full	fill	fill	Î.	Funding	IRR		
															Region	Region	Region	Chinle	Fort Def	Eastern	Northern	Northern		Agency		
																	Yes	Yes	Yes	Yes	Yes	Yes	Inventory	Project in		
																	N/A	105	529	1512	412	925	Current	ADT		
																	High	Low	Low	Moderate	Low	Low	Need	Safety		
																	N/A			68		60	Rating	Pavement	8/14/2009	EVHIRIT
																		14	No Data	38	22	35	Ranking	NDOT		-
																	2006	2017	2014	2017	2017	2017	Sch for Const	First Yr		

d Comn	Legend and	
ents	Ξ	

A ROW Needed

B Environmental Assessment Needed C Archeological Clearance Needed D Surveying Data Needed

E Construction Easement Needed

F Design Completed
G Design Plans Revision Needed
H Design in Progress
I Under Construction

J Eligibility to be determined K Pending Request for Proposal TS Transit Project U Utility Relocation Needed

W Within Existing ROW
Y Major ROW, Utility, Archeologial, etc., Problem
Q Archeological Clearance is Questionable
() Partially Funded
++ Critical Pavement Rehabilitation Work Needed

NDOT Ranking:

N/A Not Aplicable. Project is on ARC List

N/A Not Aplicable. Project is not on ARC List

GD Grade and Drain Construction
GDG Grade, Drain, and Gravel Construction
GDS Grade, Drain, and Surfacing (Pavement) Construction
RC Reconstruction

R Pavement Rehabilitation

CS Chip Sealing
GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction
PR Pavement Resurfacing

BR Bridge Reconstruction

\* Proposed Public Law 93-638 Project

\*\* Proposed Force Account Project

CY Project Carry Over from Prior Year TTIP

§ Buy-Indian Project

£ Project Designed by School Consultant, BLA perform Construction, ROW needs to be transferred to BLA.

£ Project Designed by School Consultant, BLA perform Construction, ROW needs to be transferred to BLA.

£ Project Designed by School Consultant, BLA perform Construction, ROW needs to be transferred to BLA.

£ Project Designed by School Consultant, BLA perform Construction, ROW needs to be transferred to BLA.

£ Project Designed by School Consultant, BLA perform Construction, ROW needs to be transferred to BLA.

£ Project Designed by School Consultant, BLA perform Construction, ROW needs to be transferred to BLA.

£ Project Carry Over from Prior Year TTIP

Navajo Nation Tribal Transportation Improvement Program (TTIP)
Fiscal Year 2041 Final Update
Navajo Nation Council's Transportation and Community Development Committee
40 Year Pian- INDIAN RESERVATION ROADS PROGRAM

EXHIBIT A

### Fiscal Year 2041

													8/14/2009		
Route No.	Project No.	Project Name/Description	Comment	Length	Length	Const	Est. Cost	IRR	Agency	Project in	ADT	Safety	Pavement	NDOT	First Yr
				Miles	Kilometers	Type	Million(1)	Funding		Inventory	Current	Need	Rating	Ranking	Sch for Const
NS91	N591(2)2,3	N59 to Kayenta	ABCD	8.50	13.68	СD	\$11.05	Lall	Western	Yes	258	Low	N/A	56	2024
N9052	N9052(1)2,3	Balakai Rd SR264 to Agency Line	ABCD	10.80	17.38	GDG	\$8.85	Lall	Ft. Def	Yes	138	Low		10	2017
N9062	N9062(1)2,3	Whitecone to Teesto	ABCD	21.80	35.08	SOS	\$17.85	Lall	Ft. Def	No.	325	Low		12	2017
9086N	N9806(1)2,3	Sunflower Butte to N6	ABCD	7.80	12.55	SOS	\$6.39	Lall	Ft. Def	Yes	53	Low		16	2017
N9201	N9201(1)2,3	Ganado North Mesa Road	ABCD	5.80	9.33	GDG	\$7.54	Lall	Ft. Def	Yes	501	Low	211	56	2017
Various	Maintenance Projects	Region wide safety projects	BD	NA	N/A	M	\$1.00	Lall	Region	Yes	N/A	High	N/A		2006
Area Wide	204(b) Transit	Transit Facility Project under PL93-638	LS				\$0.00								
	Chip Sealing	Various	D	0.00	000		\$0.00	full	Region						
	NRDOT Planning, Survey,								7	1	+	+	1	1	Ī
BIA Direct Service	Design, NEPA, R/W	A/E Contracts & In-house for all projects		Various			\$2.00								
	Non-project related														
BIA Direct Service	Transportation Planning	Non Project Inherent Federal Function	N/A	N/A			\$0.50								
		Modifications & balances due on Previous Funded													
BIA Direct Service	NRDOT Construction	Projects for on-going construction		Various			\$1.40								
BIA Direct Service	NHA Housing Access	Design & construction Access Roads		Varions			\$0.00								
	NRDOT Construction														
BIA Direct Service	Monitoring	All Projects in construction, QA		Various			\$3.00								
P.T. 93-638	NN Right-of-Way	Consents and ROW Document Processing		Various			\$0.14								
P.L. 93-638	NN Archeology HPD	Administration under 638		Various			\$0.78								
P.T. 93-638	NN Archeology	Task Orders		Various			\$0.50								
					Total Estima	<b>Fotal Estimated Amount</b>	\$61.00								
		1	Projected Fun	Jing Amount	Projected Funding Amount based on FY-2008 Fundin	2008 Funding	61.00								
						Balance	\$0.00								

Legend and Comments

A ROW Needed

B Environmental Assessment Needed C Archoolgical Clearance Needed D Surveying Data Needed E Construction Esceneari Needed F Design Completed G Design Plans Revision Needed H Design in Progress I Under Construction J Eligibility to be determined M Pending Request for Proposal

GD Grade and Drain Construction
GDG Grade, Drain, and Gravel Construction
GDS Grade, Drain, and Surfacing (Pavement) Construction
RC Reconstruction
R Pavement Relabilitation
CS Chip Sealing
GDS Grade, Drain, Surfacing (Pavement), & Bridge Construction
R Pavement Resurfacing
RR Bridge Reconstruction

TS Transit Project
U Utility Redocation Needed
W Within Existing ROW
¥ Major ROW, Utility, Archeolocial, etc., Problem
Q Archeological Clearance is Questionable
(!) Partially Funded
++ Critical Pavement Rehabilitation Work Needed

NDOT Ranking:

NA Not Aplicable, Project is on ARC List

NA Not Aplicable, Project is not on ARC List

Froject is already listed on prior year

### Fiscal Year 2042 Final Update Navajo Nation Council's Transportation and Community Development Committee 40 Year Plan-INDIAN RESERVATION ROADS PROGRAM

EXHIBIT A

### Fiscal Year 2042

					-20.21	Balance						
						Projected Funding Amount based on FY-2008 Funding	nt based on h	unding Amou	Projected I			
						Fotal Estimated Amount	Total Esti					
					\$0.50			Various		Task Orders	NN Archeology	P.L. 93-638
					\$0.78			Various		Administration under 638	NN Archeology HPD	P.L. 93-638
					\$0.14			Various		Consents and ROW Document Processing	NN Right-of-Way	P.L. 93-638
					\$3.00			Various		All Projects in construction, QA	Monitoring	BIA Direct Service
											NRDOT Construction	
					\$0.00			Various		Design & construction Access Roads	NHA Housing Access	BIA Direct Service
					\$0.00			Various		Projects for on-going construction	NRDOT Construction	BIA Direct Service
										Modifications & balances due on Previous Funded		
					\$0.50			N/A	N/A	Non Project Inherent Federal Function	Transportation Planning	BIA Direct Service
											Non-project Related	
					\$1.10			Various		A/E Contracts & In-house for all projects	Design, NEPA, R/W	BIA Direct Service
											NRDOT Planning, Survey,	
									D	Various	Chip Sealing	
					\$0.00				TS	Transit Facility Project under PL93-638	204(b) Transit	Area Wide
High N/A	N/A	Yes	Region	full	\$0.00	M	N/A	N/A	BD	Region wide safety projects	Maintenance Projects	Various
Low	119	Yes	Ft. Def	full	\$11.36	ŒD	16.58	10.30	ABCD	Seba Dalkai West	N9901(1)2	N9901
Low	139	Yes	Fort Def	full	\$16.44	GDS	16.09	10.00	ABCDU	N12 West to N9010	N28(4)2,4	N28
Moderate N/A	58	Yes	Fort Def/Chinle	full	\$16.46	GDS	32.35	20.10	ABCD	Low Mountain School Road	N8059(1)2&3	N8059
Low <50	50	Yes	Chinle	full	\$4.01	ŒD	7.89	4.90	ABCD	N27 to N7 Nazlini	N8085(1)2,3	N8085
Low N/A	49	Yes	Eastern	full	\$0.27	GD	1.13	0.70	ABCD	N56 south to Desidero Complex Center	N7071(1)2,3	N7071
Low N/A	.?	No	Eastern	partial	\$1.76	Œ	7.24	4.50	ABCD	N49 county north loop Pinedale	CR49(1)2	CR49
Low	58	Yes	Northern	full	\$4.10	GDG	8.05	5.00	ABCDU	US160 to UT State Line	N5060(1)2,3	N5060
Low	435	No	Northern	full	\$0.78	GDGB	0.16	0.10	ABCD	Chinle Wash Bridge	N262(1)1,2,3	N262
Need Rating	Current	Project in Inventory	Agency	Funding	Est. Cost Million(1)	Const Type	Length Kilometers	Length Miles	Comment	Project Name/Description	Project No.	Route No.
					1	2		*			1	

2	æ
	mò.
4	Œ
•	æ
•	=
•	2
	60
	ane
-	-
	_
-	_
	$\overline{}$
	6
	=
	=
	=
	=
	ē
	=
	<u> </u>
	3.

NDOT Ranking:

N/A Not Aplicable. Project is on ARC List

N/A Not Aplicable. Project is not on ARC List

- A ROW Needed
  B Environmental Assessment Needed
  C Archeological Ciearnace Needed
  D Surveying Data Needed
  D Surveying Data Needed
  E Construction Essement Needed
  E Construction Essement Needed
  G Design Funar Revision Needed
  G Design Funar Revision Needed
  H Design in Progress
  I Under Construction
  J Eligibility to be determined
  K Pending Request for Proposal
  T Transit Project
  U Utility Relocation Needed
  W Within Existing ROW
  Y Major ROW, Utility, Archeolocial, etc., Problem
  Q Archeological Clearnace is Questionable
  (1) Partially Funded

- GD Grade and Drain Construction
  GDG Grade, Drain, and Graved Construction
  GDG Grade, Drain, and Graved Construction
  RC Reconstruction
  RC Reconstruction
  RC Reconstruction
  RC Repart Rehabilitation
  CS Chip Sealing
  GBB Grade, Drain, Surfacing (Pavement), & Bridge Construction
  PR Pavement Resurfacing
  BR Bridge Reconstruction
  Proposed Public Law 93-68 Project
  \*\*Proposed Public Law 93-68 Project
  \*\*Project Carry Over from Prior Year TTIP
  Buy-Indian Project
  CY Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA.
  (1) Excluding Funds from other sources
  (2) May be used to supplement Road Maintenance Funding as authorized by TCDC
  ST Transportation Planning for Inventory Updates and other approved by TCDC
  MR Road Maintenance Project

## Navajo Nation Tribal Transportation Improvement Program (TTIP) Fiscal Year 2043 Final Update Navajo Nation Council's Transportation and Community Development Committee 40 Year Pian- INDIAN RESERVATION ROADS PROGRAM

**EXHIBIT A** 

•
J
5
6
>
6
9
ř

Fiscal Year 2043													8/14/2009		
Route No.	Project No.	Project Name/Description	Comment	Length	Length	Const	Est. Cost	IRR	Agency	Project in	ADT	Safety	Pavement	NDOT	First Yr
					Kilometers	Type	Million(1)	Funding		Inventory	Current	Need	Rating	Ranking	Sch for Const
NS016	N5016(1)2,3		ABCDU	8.60		CDC	\$10.32	[m]	Northern	Yes	349	Low			2024
NS002	N5002(1)2&3		ABCDU	6.70	10.78	CDS	\$8.04	[m]	Northern	Yes	133	Low			2024
N7113	N7113(1)2,3	Peshlakai Road- Mariano Lake	ABCD	8.50		GB GB	\$10.20	Lal	Eastern	Yes	82	Low	N/A	12	2026
NS2	N52(2)2,3/ N98(1)2,3	ing Access	ABCD	4,4/4	13.52	GDG	\$4.03	[m]	Eastern	Yes	140	Low	140	4	2024
NIS	N15(3-1)2&4	Sunrise to Greasewood	BCD	9.40	15.13	SGS	\$15.45	lluJ	Fort Def	Yes	1486	Moderate	09>	No Data	2011
N9103	N9103(1)2		ABCD	3.10		GB GB	\$3.72	[a]	Ft. Def	Yes	39	Low		11	2017
N3003	N3003(1)(2)(3)(4)(5)(6)4	Chip Sealing	BDW	24.44	39.33	cs	\$2.93	[In]	MIIP	Yes	N/A	Low			2017
Various	Maintenance Projects	safety projects	BD	N/A	N/A N	M	\$0.00	[In]	Region	Yes	N/A	High	N/A		2006
Area Wide	204(b) Transit	Transit Facility Project under PL93-638	LS				\$0.00								
	Chip Sealing	Various	Q												
	NRDOT Planning, Survey, Design,														
BIA Direct Service	NEPA, R/W	A/E Contracts & In-house for all projects		Various			\$1.10								
	Non-project Transportation														
BIA Direct Service	Planning	ction	N/A	N/A			\$0.50								
		Modifications & balances due on Previous Funded													
BIA Direct Service	NRDOT Construction	Projects for on-going construction		Various			\$0.50								
BIA Direct Service	NHA Housing Access	Design & construction Access Roads		Various			\$0.00								
BIA Direct Service	NRDOT Construction Monitoring All Projects in construction, QA	All Projects in construction, QA		Various			\$3.00								
P.L. 93-638	NN Right-of-Way	Consents and ROW Document Processing		Various			\$0.14								
P.L. 93-638	NN Archeology HPD	Administration under 638		Various			80.78								
P.L. 93-638	NN Archeology	Task Orders		Various			\$0.50								
					Total Estima	Fotal Estimated Amount	\$61.22								
			Projected Funding Amount based on FY-2008 Funding	ling Amount b	pased on FY-2	008 Funding	61.00								
						Balance	-\$0.22								

Legend and Comments

A ROW Needed

A NO. Viceted

B Environmental Assessment Needed
C Archological Charace Needed
D Surveying Data Needed
E Construction Easement Needed
F Design Donnel Ensement Needed
G Design in Progress
H Design in Progress
I Under Construction
J Elightlity to be determined
K Pending Request for Proposal
IY Transi Project
U Utility Redesation Needed
W Within Existing ROW

Walpor ROW, Utility, Archeolocial, etc., Problem
Q Archeological Cheramoe is Questionable
(1) Partially Funded
++ Critical Pavement Rehabilitation Work Needed

GD Grade and Drain Construction
GDG Grade, Drain, and Gravel Construction
GDS Grade, Drain, and Gravel Construction
GDS Grade, Drain, and Surfacing (Pavement) Construction
RC Reconstruction
RC Reconstruction
RP Revenuent Resultilitation
CS Chip Scaling
GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction
PR Pavement Resultilitation
GDSB Grade, Drain, Surfacing (Pavement), & Bridge Reconstruction
R Bridge Reconstruction
\* Proposed Prote Account Project
\*\* Proposed Forter Account Project
CY Project Carry Over from Proye Train
§ Brydge Construction
§ Brydge Construction
§ Brydge Construction (CSP) Report Consultant, BIA perform Construction, ROW needs to be transferred to BIA.
(1) Excluding Funds from other sources
(2) May be used to appelement Read Maintenance Funding as authorized by TCDC
SS Transportation Papaning for Inventory Updates and other approved by TCDC
SS Transportation and Maintenance Project

NDOT Ranking:

N/A Not Aplicable. Project is on ARC List

N/A Not Aplicable. Project is not on ARC List

Navajo Nation Tribal Transportation Improvement Program (TTIP)

Fiscal Year 2044 Final Update
Navajo Nation Council's Transportation and Community Development Committee

40 Year Plan- INDIAN RESERVATION ROADS PROGRAM

								\$61.21	Total Estimated Amount	Total Esti						
								\$1.00			Various		Task Orders	NN Archeology	P.L. 93-638	
								\$0.78			Various		Administration under 638	NN Archeology HPD	P.L. 93-638	
								\$0.14			Various		Consents and ROW Document Processing	NN Right-of-Way	P.L. 93-638	
								\$2.00			Various		All Projects in construction, QA	NRDOT Construction Monitoring	BIA Direct Service	
								\$0.00			Various		Design & construction Access Roads	NHA Housing Access	BIA Direct Service	
								\$1.00			Various		Projects for on-going construction	NRDOT Construction	BIA Direct Service	
												_	Modifications & balances due on Previous Funded			
								\$0.50			N/A	N/A	Non Project Inherent Federal Function	Planning	BIA Direct Service	
														Non-project Transportation		
								\$1.28			Various		A/E Contracts & In-house for all projects	NEPA, R/W	BIA Direct Service	
														NRDOT Planning, Survey, Design,		
												D	Various	Chip Sealing		
								\$0.00				TS	Transit Facility Project under PL93-638	204(b) Transit	Area Wide	
2000		N/A	High	N/A	Yes	Region	full	\$0.00	М	N/A	N/A	BD	Region wide safety projects	Maintenance Projects	Various	
2017	12		Low	163	Yes	Ft. Def	full	\$15.72	GDG	30.90	19.20	ABCD	Teesto to Nahtee N6	N9065(1)2,3	N9065	
202-	20		Low	206	Yes	Eastern	full	\$11.15	GDG	30.58	19.00	ABCD	Littlewater (Heart butte Loop)	N481(2)2,4	N481	
2017	12	NA	Low	703	Yes	Eastern	full	\$11.70	GDS	12.55	7.80	ABCD	Second Canyon Road to Pinedale	N7054(1)2&4	N7054	
201-	6		Low	112	County	Eastern	full	\$14.25	GD	30.58	19.00	ABCD	SR371 Bisti to NM44 (Co-Op)	SJCR7500	CR7500	
202-	8		Low	26	Yes	Northern	full	\$1.68	GDG	6.92	4.30	ABCD	US491 to N19 Two Grey Hills	N192(1)2,3	N192	
Sch for (	Ranking	Rating	Need	Current	Inventory		Funding	Million(1)	Type	Kilometers	Miles					
First	t NDOT	Pavement	Safety	ADT	Project in	Agency	IRR	Est. Cost	Const	Length	Length	Comment	Project Name/Description	Project No.	Route No.	
	A A	EXHIBIT / 8/14/2009													Fiscal Year 2044	

Total Estimated Amount
Projected Funding Amount based on FY-2008 Funding
Balance

\$1.00 \$0.00 \$2.00 \$0.14 \$0.78 \$1.00 \$61.21 -\$0.21

regent and Comments		
A ROW Needed	GD Grade and Drain Construction	NDOT Ranking:
B Environmental Assessment Needed	GDG Grade, Drain, and Gravel Construction	N/A Not Aplicable. Project is on ARC List
C Archeological Clearance Needed	GDS Grade, Drain, and Surfacing (Pavement) Construction	N/A Not Aplicable. Project is not on ARC List
D Surveying Data Needed	RC Reconstruction	
E Construction Easement Needed	R Pavement Rehabilitation	
F Design Completed	CS Chip Sealing	
G Design Plans Revision Needed	GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction	
H Design in Progress	PR Pavement Resurfacing	
I Under Construction	BR Bridge Reconstruction	
J Eligibility to be determined	* Proposed Public Law 93-638 Project	
K Pending Request for Proposal	** Proposed Force Account Project	
TS Transit Project	CY Project Carry Over from Prior Year TIIP	
U Utility Relocation Needed	§ Buy-Indian Project	
W Within Existing ROW	£ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA.	
¥ Major ROW, Utility, Archeologial, etc., Problem	(1) Excluding Funds from other sources	
Q Archeological Clearance is Questionable	(2) May be used to supplement Road Maintenance Funding as authorized by TCDC	
(!) Partially Funded	\$\$ Transportation Planning for Inventory Updates and other approved by TCDC	
++ Critical Pavement Rehabilitation Work Needed	M Road Maintenance Project	

Navajo Nation Tribal Transportation Improvement Program (TTIP Fiscal Year 2045 Final Update
Navajo Nation Council's Transportation and Community Development Committee
40 Year Plan-INDIAN RESERVATION ROADS PROGRAM

					2										
												<b>Ξ</b>	EXHIBIT A		
Fiscal Year 2045													8/14/2009		
Route No.	Project No.	Project Name/Description	Comment	Length	Length	Const	Est. Cost	IRR	Agency	Project in	ADT	Safety	Pavement	NDOT	First Yr
				Miles	Kilometers	Туре	Million(1)	Funding		Inventory	Current	Need	Rating	Ranking	Sch for Const
N52	N52(2)2,3/ N98(1)2,3	Dalton Pass NHA Housing Access	ABCD	4,4/4	13.52	GDG	\$4.03	[In]	Eastern	Yes	140	Low	140	4	2024
N482	N482(1)2,3	Littlewater to CR 19	ABCD	7.50	12.07	CDC	\$3.60	[m]	Eastern	Yes	72	Low		14	2024
N485	N485(1)2,4	Casamero Lake to N48	ABCD	8.20	13.20	epe	\$4.81	[m]	Eastern	Yes	206	Low		18	2024
N4134/N4145/N4162	N4134/N4145/N4162(1)2&4	NIIP Block 9	ABCDQ	62.7	12.54	CDS	\$0.00	[m]	MIIP	No	0	Low	N/A		2003
N4049/N4126/N4131	N4049/N4126/N4131(1)2,4	NIIP Block 9	ABCDQ	11.49	18.49	CDS	\$0.00	[m]	MIIP	No	0	Low	N/A		2005
N4000	NIIP Block X	NIIP Block 10 Phase I	BD	10.00	16.09	SO	\$0.00	Lall	MIIP	No	0	Low	N/A		2006
N4000	NIIP Block X	NIIP Block 10 Phase II	ABCDU	10.00	16.09	GDS	\$0.00	[[n]	MIIP	No	0	Low			2008
N4000	NIIP Block X	NIIP Block 10 Phase III	ABCDU	10.00	16.09	GDS	\$0.00	[[n]	MIIP	No	0	Low			2009
N4000	N4000 Series	Blk XI Phase II	ABCDU	9.00	14.48	СD	\$0.00	[In]	MIIP	ON	0	Low			2017
N4000	N4000 Series	Blk XI Phase I	ABCDU	9.00	14.48	СD	\$0.00	[In]	MIIP	ON	0	Low			2017
Various	Maintenance Projects	Region wide safety projects	BD	N/A	N/A N	M	\$0.00	[m]	Region	Yes	N/A	High	N/A		2006
Area Wide	204(b) Transit	Transit Facility Project under PL93-638	LS				\$0.00								
	Chip Sealing	Various	Q												
	NRDOT Planning, Survey, Design,														
BIA Direct Service	NEPA, R/W	A/E Contracts & In-house for all projects		Various			\$1.20								
	Non-project Transportation														
BIA Direct Service	Planning	Non Project Inherent Federal Function	N/A	N/A			\$0.50								
		Modifications & balances due on Previous													
BIA Direct Service	NRDOT Construction	Funded Projects for on-going construction		Various			\$1.88								
BIA Direct Service	NHA Housing Access	Design & construction Access Roads		Various			\$0.00								
BIA Direct Service	NRDOT Construction Monitorin	All Projects in construction, QA		Various			\$3.00								
P.L. 93-638	NN Right-of-Way	Consents and ROW Document Processing		Various			\$0.14								
P.L. 93-638	NN Archeology HPD	Administration under 63:		Various			80.78								
P.T. 93-638	NN Archeology	Task Order		Various			\$1.00								
					Total Estim	Total Estimated Amount	\$20.95								
			Projected Fu	mding Amoun	Projected Funding Amount based on FY-2008 Funding	9008 Funding	61.00								
						Balance	\$40.05	1							
							•								

Legend and Comments

A ROW Needed

NDOT Ranking:

NA Not Aplicable, Project is on ARC List

NA Not Aplicable, Project is not on ARC List

Project is already listed on prior year.

R Pavement Rehabilitation
CS Chip Sealing
GDSB Carde, Denlin, Surfacing (Pavement), & Bridge Construction
PR Pavement Resurfacing
BR Bridge Reconstruction

GD Grade and Drain Construction GDG Grade, Drain, and Gravel Construction GDS Grade, Drain, and Surfacing (Pavement) Construction RC Reconstruction

B Environmental Assessment Needed C Archeological Clearance Needed D Surveying Data Needed E Construction Easement Needed F Design Completed G Design Completed G Design Pans Revision Needed H Design in Progress I Under Construction

J Eligibility to be determined K Pending Request for Proposal TS Traint Request for Proposal TS Traint Request for Proposal IT ST Traint Project.

Utility Relocation Needed
W Within Existing ROW
W Mithin Existing ROW
W Major ROW, Utility, Archeolocial, etc., Problem
Q Archeological Clearance is Questionable
(!) Partially Funded
++ Critical Pavement Rehabilitation Work Needed

\* Proposed Public Law 93-638 Project
\*\* Proposed Public Law 93-638 Project
CY Project Carry Over from Project

§ Buy-Indian Project
(F Project Degree of Project Prome Profer Carry Construction, ROW needs to be transferred to BIA.
(F Degree Degree of Project Degree

## Navajo Nation Tribal Transportation Improvement Program (TTIP Fiscal Year 2046 Final Update Navajo Nation Council's Transportation and Community Development Committee 40 Year Plan- INDIAN RESERVATION ROADS PROGRAM

							-\$0.21	Balance						
							g 61.00	-2008 Fundin,	Projected Funding Amount based on FY-2008 Funding	unding Amou	Projected F			
							ıt \$61.21	Total Estimated Amount	Total Esti					
							\$1.00			Various		Task Orders	NN Archeology	P.L. 93-638
							\$0.78			Various		Administration under 63	NN Archeology HPD	P.L. 93-638
							\$0.14			Various		Consents and ROW Document Processing	NN Right-of-Way	P.L. 93-638
							\$3.00			Various		All Projects in construction, QA	NRDOT Construction Monitoring	BIA Direct Service
							\$0.00			Various		Design & construction Access Roads		BIA Direct Service
							\$1.00			Various		Funded Projects for on-going construction	NRDOT Construction	BIA Direct Service
												Modifications & balances due on Previous		
							\$0.50			N/A	N/A	Non Project Inherent Federal Function	Planning	BIA Direct Service
													Non-project Transportation	
							\$1.40			Various		A/E Contracts & In-house for all projects	NEPA, R/W	BIA Direct Service
													NRDOT Planning, Survey, Design,	
											D	Various	Chip Sealing	
							\$0.00				TS	Transit Facility Project under PL93-638	204(b) Transit	Area Wide
2006	N/A	High	N/A	Yes	Region	full	\$0.00	M	N/A	N/A	BD	Region wide safety projects	Maintenance Projects	Various
11 2017	1	Low	74	Yes	Ft. Def	full	\$8.52	GD	16.74	10.40	ABCD	Sunrise Loop Rd to N15	N9005(1)2,3	N9005
8 2017		Low	117	Yes	Ft. Def	full	\$17.94	GD	35.24	21.90	ABCD	Castle Butte to N6	N9860(1)2,3	N9860
16 2017	1	Low	254	Yes	Ft. Def	full	\$7.62	GDG	14.97	9.30	ABCD	SR264 north to Agency Line	N25(1)2,3	N25
7 2017		Low	79	Yes	Ft. Def	full	\$7.92	GD	10.62	6.60	ABCD	Cornfield to N9205	N9155(1)2	N9155
12 2017	1	Low	77	Yes	Ft. Def	full	\$11.40	GD	15.29	9.50	ABCD	SR264 East of Steamboat to Sunrise	N9055(1)2	N9055
Ranking Sch for Const	Rating Ran	Need	Current	Inventory		Funding	Million(1)	Type	Kilometers	Miles				
NDOT First Yr	_	Safety	ADT	Project in	Agency	IRR	Est. Cost	Const	Length	Length	Comment	Project Name/Description	Project No.	Route No.
	8/14/2009													Fiscal Year 2046
	XHIBIT A	E												

ion struction, ROW needs to be transferred is suthorized by TCDC r approved by TCDC	++ Critical Pavement Rehabilitation Work Needed M Road Maintenance Project	(i) Partially Funded \$\$ Transportation Planning for Inventory Updates and other approved by TCDC	Q Archeological Clearance is Questionable (2) May be used to supplement Road Maintenance Funding as authorized by TCDC	Y Major ROW, Utility, Archeolodal, etc., Problem (1) Excluding Funds from other sources	W Within Existing ROW £ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA	U Utility Relocation Needed § Buy-Indian Project	TS Transit Project Carry Over from Prior Year TTIP	K Pending Request for Proposal ** Proposed Force Account Project	J Eligibility to be determined * Proposed Public Law 93-638 Project	I Under Construction BR Bridge Reconstruction	H Design in Progress PR Pavement Resurfacing	G Design Plans Revision Needed GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction	F Design Completed CS Chip Sealing	E Construction Easement Needed R Pavement Rehabilitation	D Surveying Data Needed RC Reconstruction	C Archeological Clearance Needed GDS Grade, Drain, and Surfacing (Pavement) Construction	B Environmental Assessment Needed GDG Grade, Drain, and Gravel Construction	A ROW Needed GD Grade and Drain Construction
---	--	--	--	---	---	--	--	--	---	---	--	---	------------------------------------	--	---	--	---	--

## Navajo Nation Tribal Transportation Improvement Program (TTIP) Fiscal Year 2047 Final Update Navajo Nation Council's Transportation and Community Development Committee 40 Yoar Plan-INDIAN RESERVATION ROADS PROGRAM

					1										
												≅	EXHIBIT A		
Fiscal Year 2047													8/14/2009		
Route No.	Project No.	Project Name/Description	Comment	Length	Length	Const	Est. Cost	IRR	Agency	Project in	ADT	Safety	Pavement	NDOT	First Yr
				Miles	Kilometers	Type	Million(1)	Funding		Inventory	Current	Need	Rating	Ranking	Sch for Const
NIS	N15(3-1)2&4	Sunrise to Greasewood	BCD	9.40	15.13 G	CDS	\$15.45	lluJ	Fort Def	Yes	1486	Moderate	09>	No Data	2011
N37	N37(1)2,3	N9 South to Coal Mine	ABCD	5.00	8.05 G	CDC	\$4.10	[In]	Ft. Def	Yes	162	Low		14	2017
N9751	N9751(1)2,3	Jeddito N9102 to N9062	ABCD	3.40	5.47 G	SDG	\$2.78	lluJ	Ft. Def	Yes	92	Low		12	2017
V9857	N9857(1)2	N60 to Smith Butte	ABCD	09.9	10.62 G	GD	\$7.92	lluj	Ft. Def	Yes	63	Low		10	2017
N4000	N4000 Series	BIR XII Phase I &II	ABCDU	20.00	32.19 G	GD	\$23.00	lluJ	NIIP	ON	N/A	Low	N/A		2017
Various	Maintenance Projects	projects	BD	N/A	N/A N	M	\$0.00	lluJ	Region	Yes	N/A	High	N/A		2006
Area Wide	204(b) Transit	Transit Facility Project under PL93-638	LS				\$0.00								
	Chip Sealing	Various													
	NRDOT Planning, Survey, Design,														
BIA Direct Service	NEPA, R/W	A/E Contracts & In-house for all projects		Various			\$1.20								
	Non-project Transportation														
BIA Direct Service	Planning	tion	N/A	N/A			\$0.50								
		Modifications & balances due on Previous													
BIA Direct Service	NRDOT Construction	Funded Projects for on-going construction		Various			\$1.13								
BIA Direct Service	NHA Housing Access	Design & construction Access Roads		Various			\$0.00								
BIA Direct Service	NRDOT Construction Monitoring All Projects in construction, QA	All Projects in construction, QA		Various			\$3.00								
P.L. 93-638	NN Right-of-Way	Consents and ROW Document Processing		Various			\$0.14								
P.L. 93-638	NN Archeology HPD	Administration under 638		Varions			\$0.78								
P.L. 93-638	NN Archeology	Task Orders		Varions			\$1.00								
					Total Estimated Amount	ted Amount	\$61.00								
			Projected Fun-	Projected Funding Amount based on FY-2008 Funding	ased on FY-26	908 Funding	61.00								
						Balance	\$0.00								

Legend and Comments

A ROW Needed

A Environmental Assessment Needed C Archeological Clearance Needed D Surveying Data Needed E Construction Exament Needed F Posign Completed G Design Plans Revision Needed

H Design in Progress
I Under Construction
J Eligibility to be determined
K Pending Request for Proposal
TS Transit Project
Utility Reheation Needed
W Within Existing ROW
Y Major ROW, Utility, Archeolocial, etc., Problem
Q Archeological Clearance is Questionable
() Partially Funded

++ Critical Pavement Rehabilitation Work Needed

GD Grade and Drain Construction
GDG Grade, Drain, and Garsel Construction
GDS Grade, Drain, and Surfacing (Pavement) Construction
GDS Grade, Drain, and Surfacing (Pavement) Construction
RC Recovern Rehabilitation
RC Supposed Fore Account Project
PR Pavement Resultation
PR Project Carry Over from Project
Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA.
(1) Excluding Plants from other sources
(2) May be used to supplement Road Maintenance Funding as authorized by TCDC
SS Transportation Planning for Inventory Updates and other approved by TCDC
SS Transportation Planning for Inventory Updates and other approved by TCDC

NDOT Ranking:

N/A Not Aplicable. Project is on ARC List

N/A Not Aplicable. Project is not on ARC List

N/A Not Aplicable. Project is not on ARC List

Project is already listed on prior year

Navajo Nation Tribal Transportation Improvement Program (TTIP)

Fiscal Year 2048 Final Update

Navajo Nation Council's Transportation and Community Development Committee
40 Year Plan- INDIAN RESERVATION ROADS PROGRAM

								\$18.37	Balance						
								g 61.00	Projected Funding Amount based on FY-2008 Funding	t based on FY	nding Amoun	Projected Fu			
								t \$42.63	Total Estimated Amount	Total Estin					
								\$1.00			Various		Task Orders	NN Archeology	P.L. 93-638
								\$0.78			Various		Administration under 638	NN Archeology HPD	P.L. 93-638
								\$0.14			Various		Consents and ROW Document Processing		P.L. 93-638
								\$3.00			Various		All Projects in construction, QA	NRDOT Construction Monitoring	BIA Direct Service
								\$0.00			Various		Design & construction Access Roads	_	BIA Direct Service
								\$2.00			Various		Funded Projects for on-going construction	NRDOT Construction	BIA Direct Service
													Modifications & balances due on Previous		
								\$0.50			N/A	N/A	Non Project Inherent Federal Function	Planning	BIA Direct Service
														Non-project Transportation	
								\$1.90			Various		A/E Contracts & In-house for all projects	_	BIA Direct Service
														NRDOT Planning, Survey, Design,	
												D	Various	_	
								\$0.00				TS	Transit Facility Project under PL93-638	204(b) Transit	Area Wide
2006		N/A	High	N/A	Yes	Region	full	\$0.00	M	N/A	N/A	BD	Region wide safety projects	Maintenance Projects	Various
2017			Low	N/A	Yes	NIIP	full	\$2.93	CS	39.33	24.44	BDW	Chip Sealing	N3003(1)(2)(3)(4)(5)(6)4	N3003
2010			Low	190	Yes	Ft. Def	full	\$15.12	GDS	14.81	9.20	ABCD	Pine Springs to SR264	N9010(3)2,4	N9010
2010	18		Low	190	Yes	Ft. Def	full	\$15.25	GDS	12.79	7.95	ABCD	Pine Springs to SR264	N9010(4)2,4	N9010
Sch for Const	Ranking	Rating	Need	Current	Inventory		Funding	Million(1)	Type	Kilometers	Miles				
First Yr	NDOT	Pavement	Safety	ADT	Project in	Agency	IRR	Est. Cost	Const	Length	Length	Comment	Project Name/Description	Project No.	Route No.
		8/14/2009													Fiscal Year 2048
		EXHIBIT A													

Legend	
and	
Comments	

- A ROW Needed
  B Environmental Assessment Needed
  C Archeological Clearance Needed
  C Archeological Clearance Needed
  D Surveying Data Needed
  E Construction Easement Needed
  F Design Completed
  G Design Plants Revision Needed
  H Design in Progress
  I Under Construction

- J Eligibility to be determined
  K Fending Request for Proposal
  TS Transit Project
  U Utility Relocation Needed
  W Within Existing ROW
  Y Major ROW, Utility, Archeolocial, etc., Problem
  Q Archeological Clearance is Questionable
  (1) Partially Funded
  ++ Critical Pavement Rehabilitation Work Needed

- GD Grade and Drain Construction
  GDG Grade, Drain, and Gravel Construction
  GDS Grade, Drain, and Surfacing (Pavement) Construction
  RC Reconstruction

NDOT Ranking:

N/A

Not Aplicable. Project is on ARC List

N/A

Not Aplicable. Project is not on ARC List

Project is already listed on prior year

- R Pavement Rababilitation
  CS Chip Sealing
  GS Chip Sealing
  GDSB Grade, Drain, Surfacing (Pavement), & Bridge Construction
  PR Pavement Resurfacing
  BR Bridge Reconstruction
  \* Proposed Force Account Project
  \*\* Proposed Force Account Project
  CY Project Carry Over from Prior Year THP
  § Buy-Indian Project
  £ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA.
  £ Project Designed by School Consultant, BIA perform Construction, ROW needs to be transferred to BIA.
  £ Transportation Planning for Inventory Updates and other approved by TCDC

  M Road Maintenance Project