

Navajo Route 7 Street Lighting Pre-Scoping Report

Prepared for:

Chinle Chapter of the Navajo Nation

and

Navajo Division of Transportation

in collaboration with

ADOT – Multimodal Planning Division



PRE-SCOPING REPORT

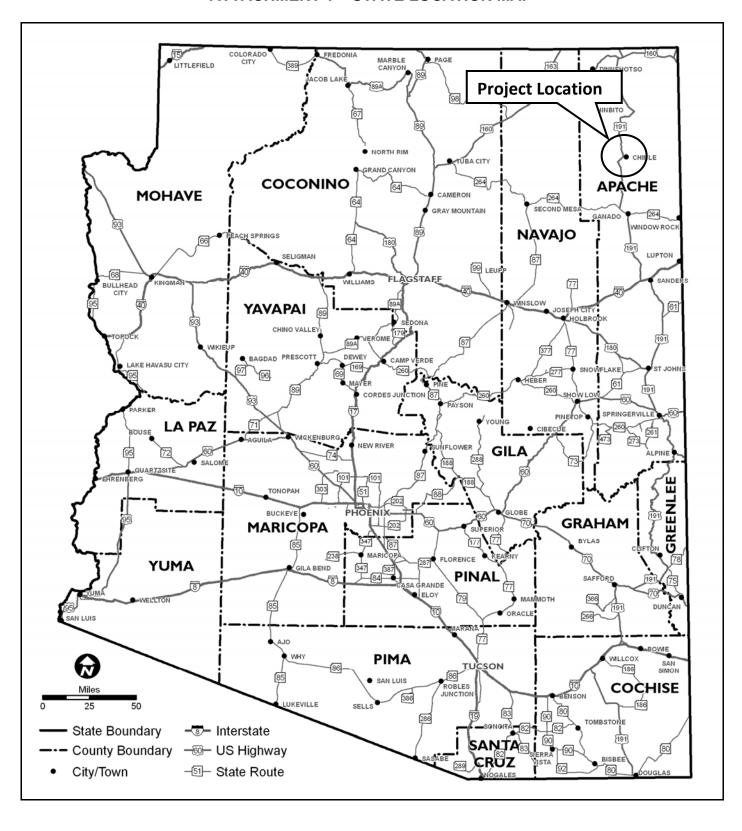
GENERAL PROJECT INFORMATION			
Date: 2/5/2016	ADOT Project Manager: Don Sneed		
Project Name: Navajo Route 7 Street Lighting Project			
City/Town Name: Chinle Chapter	County: Navajo		
Primary Route/Street: Navajo Route 7			
Beginning Limit: (Milepost / Cross Street) MP 0.0 / US 191 Inte	rsection		
End Limit: (Milepost / Cross Street) MP 2.2 / Holiday Inn			
Project Length: 2.2 Miles			
Right-of-Way Ownership(s) (where proposed project construc	tion would occur): (Check all that apply)		
☐ City/Town; ☐ County; ☐ ADOT; ☐ Private; ☐ Federal	Tribal; 🔀 Other: Bureau of Indian Affairs		
Adjacent Land Ownership(s): (Check all that apply)			
City/Town; County; ADOT; Private; Federal;	Tribal; Other: Bureau of Indian Affairs		
http://gis.azland.gov/webapps/parcel/			
LOCAL PUBLIC AGENCY (LPA) or TRIB			
(If applic	able)		
LPA/Tribal Name: Chinle Chapter of the Navajo Nation			
LPA/Tribal Contact: Tyrone J. Begay, Chinle Chapter Planner			
Email Address: chinleplanner2014@gmail.com	Phone Number: (928) 674-2072		
Administration: ⊠ ADOT Administered ☐ Self-Adminis	tered Certification Acceptance		
PROJECT	NEED		
TROJECT	NEED		
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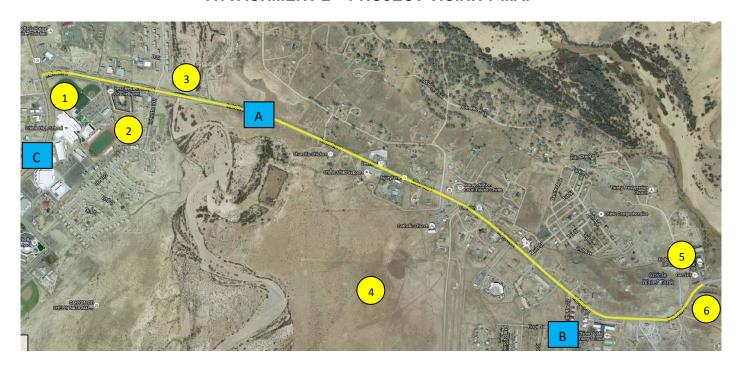
PRE-SCOPING REPORT

		PRO	OJECT RISKS			
Check any risks identifie	ed that may impact the p	roject's	scope, schedu	le, or budget:		
Access / Traffic Con	Access / Traffic Control / Detour Issues					
Constructability / C	onstruction Window Issu	es	⊠ Envi	ronmental		
Stakeholder Issues			∪tili	ties		
Structures & Geote	ch		Othe	er:		
Risk Description: (If a b	ox is checked above, brie	fly expla	in the risk)			
New light poles should	not be mounted to existi	ng struc	ture			
New light pole foundati	on excavation may requi	re envir	onmental inve	stigation		
• •	conductor excavation (if	convent	tional lighting	is used instead	of solar light	ing) may require
environmental investiga						
New light pole foundati	on and/or conduit may in	npact ex	xisting utilities			
		FUNDI	ING SOURCE	(S)		
Anticipated Project Des	ign/Construction Funding	T	STP	TAP	HSIP	State
Type: (Check all that ap		`	Local	Private		Tribal Transportation
					Program (T	•
		_				
		COS	T ESTIMATE			
Preliminary	Design	Right-o	of-Way	Construction	on	Total
Engineering	\$137,038	\$0		\$		\$TBD
\$TBD						
		DR∩I	ECT DELIVER	v		
Delivery: Design-Bi	d-Ruild Desig	n-Build		ther:		
Design Program Year: F	<u>_</u>	- Dana				
Construction Program Year: FY TBD						
Construction From Fedit Fills						
ATTACHMENTS						
1) State Location	Мар					
2) Project Vicinity	-					
3) Project Scope of						
4) Project Schedule 5) Itemized Cost Estimate						
6) 15% Design Plan Sheets (as needed)						

ATTACHMENT 1 – STATE LOCATION MAP



ATTACHMENT 2 – PROJECT VICINITY MAP



Key	
1	Begin Project
2	Chinle High School
3	Existing Bridge over Nazlini Wash
4	Future Navajo Nation Public Safety Training Facility
5	Holiday Inn
6	End Project
Α	Indian Route 7
В	Indian Route 27
С	US 191

ATTACHMENT 3 – SCOPE OF WORK

SCOPE OF WORK

FINAL DESIGN

- Complete a quick project verification (Stage I) review to assure the scope contained in this document is still valid
- Select a design consultant familiar with conventional and solar lighting to complete the final design
- Complete the final design in close conformance to the schedule shown below (actual durations may vary depending on workload and other factors and will be more accurately determined during final design.
- Refine the design and cost estimate.
- Prepare the project for bid advertisement, bid analysis and award.
- Navajo Division of Transportation (NDOT) finalize contract and provide NTP to contractor to begin construction.
- Public Involvement should be utilized throughout the project to keep everyone informed.
- Contractor staging area has not been identified and would be done during final design.
- Complete all clearances (environmental, right-of-way, utilities) prior to completion of design
- Complete Right-of-Way (ROW) purchase prior to construction.
- Complete final design, bid and award project.

CONSTRUCTION

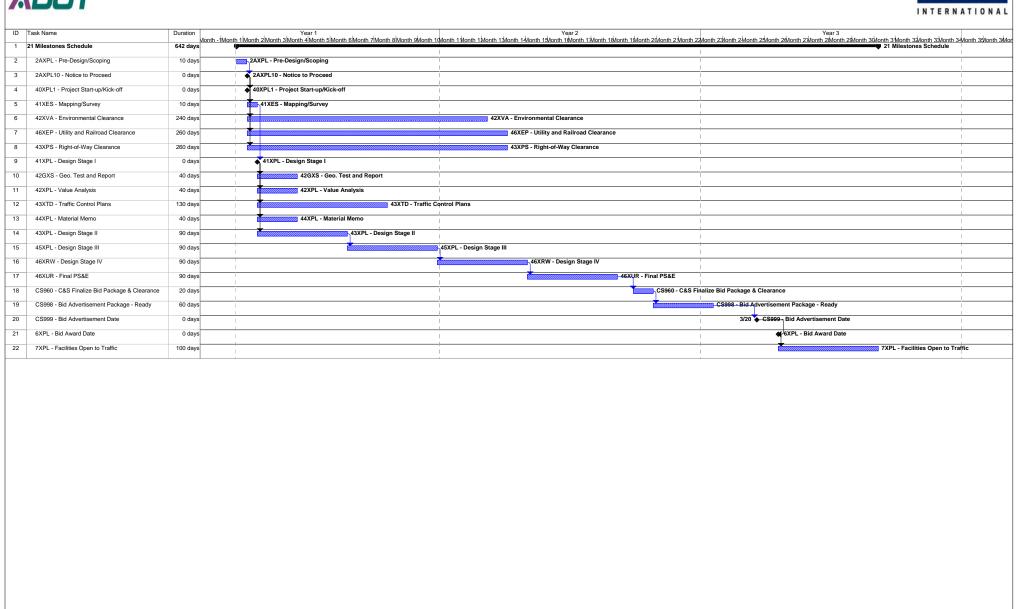
- Conduct partnering meeting and start construction mobilization.
- Contractor staking and layout. Utility relocation plan developed and implemented.
- Set up traffic control and any detours if need and determined by final design.
- Maintain access to adjacent properties.
- Complete the installation of new lights per the plans developed in final design
- Complete the installation of new pavement markings.

ATTACHMENT 4 – PROJECT SCHEDULE

21 Milestone Schedule Chinle Street Lighting Pre-Scoping







External MileTask Manual Task External Tasks û Split Project Summary Inactive Milestone ____ Duration-only Start-only External Milestone Date: 3/21/16 Milestone • External Tasks Inactive Summary Manual Summary Rollup ♦ Finish-only Progress Final Chinle Street Lighting - Pre-Scoping Schedule.mpp Project Time: 642 days Working Days

ATTACHMENT 5 – ITEMIZED COST ESTIMATE

ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
704XX01	PAVEMENT MARKING	L. SUM	1	\$45,000.00	\$45,000.00
731XX01	OFF-GRID SOLAR-ENHANCED STREET LIGHTING	L. SUM	1	\$721,000.00	\$721,000.0
	SUBTOTAL 1				\$766,000.0
934XX01	MISCELLANEOUS WORK			15.00%	\$114,900.0
	SUBTOTAL 2				\$880,900.0
701XX01	MAINTENANCE AND PROTECTION OF TRAFFIC			10.00%	\$88,090.0
810XX01	EROSION CONTROL AND POLLUTION PREVENTION			1.00%	\$8,809.0
924XX02	CONTRACTOR QUALITY CONTROL			2.00%	\$17,618.0
925XX01	CONSTRUCTION SURVEY AND LAYOUT			2.00%	\$17,618.0
	SUBTOTAL 3				\$1,013,035.0
901XX01	MOBILIZATION			10.00%	\$101,303.5
	SUBTOTAL 4				\$1,114,338.5
	CONTINGENCY			5.00%	\$55,716.9
	INDIRECT COST ALLOCATION (ICAP)			10.35%	\$115,334.0
	CONSTRUCTION ENGINEERING			9.00%	\$100,290.4
	TRIBAL EMPLOYMENT RIGHT ORDINANCE (TERO) TAX			5.00%	\$55,716.9
	LIGHTING CONSTRUCTION SUBTOTAL				\$1,441,396.8
	OTHER COST UTILITY RELOCATION	L. SUM	1	\$20,000.00	\$20,000.0
	RIGHT OF WAY AND TCE REQUIREMENTS	L. SUM	1	Ψ=0,000.00	\$0.0
	OTHER COST SUBTOTAL	2. 55	·		\$20,000.0
	0.11.21.0007.002.101.12				4_5,555.5
	CONSTRUCTION TOTAL				
					\$1,461,396.8
					\$1,461,396.8
	DESIGN COST				\$1,461,396.8
				10.00%	
	DESIGN COST PRELIMINARY AND FINAL DESIGN ENGINEERING	L. SUM	1		\$146,139.6
	DESIGN COST	L. SUM	1 1	10.00% \$30,000.00 \$40,000.00	\$146,139.6 \$30,000.0
	DESIGN COST PRELIMINARY AND FINAL DESIGN ENGINEERING NDOT PMDR FEE			\$30,000.00	\$1,461,396.8 \$146,139.6 \$30,000.0 \$40,000.0
	DESIGN COST PRELIMINARY AND FINAL DESIGN ENGINEERING NDOT PMDR FEE NEPA FEE			\$30,000.00	\$146,139.6 \$30,000.0 \$40,000.0
	DESIGN COST PRELIMINARY AND FINAL DESIGN ENGINEERING NDOT PMDR FEE NEPA FEE			\$30,000.00	\$146,139.6 \$30,000.0 \$40,000.0 \$216,139.6
	DESIGN COST PRELIMINARY AND FINAL DESIGN ENGINEERING NDOT PMDR FEE NEPA FEE DESIGN COST SUBTOTAL PROJECT TOTAL			\$30,000.00	\$146,139.6 \$30,000.0 \$40,000.0 \$216,139.6
	DESIGN COST PRELIMINARY AND FINAL DESIGN ENGINEERING NDOT PMDR FEE NEPA FEE DESIGN COST SUBTOTAL PROJECT TOTAL			\$30,000.00	\$146,139.6 \$30,000.0 \$40,000.0 \$216,139.6 \$1,677,536.5
	DESIGN COST PRELIMINARY AND FINAL DESIGN ENGINEERING NDOT PMDR FEE NEPA FEE DESIGN COST SUBTOTAL PROJECT TOTAL			\$30,000.00	\$146,139.6 \$30,000.0

FUNDING TOTAL			\$1,677,536.53
5.7% LOCAL MATCH		5.70%	\$95,619.58
94.3% FEDERAL		94.30%	\$1,581,916.95













Inovus Financial Analysis: Off-Grid

Customer Profile

Project Name: Navajo - Chinle Rte 7

City and State: Chinle, AZ
Application: Roadway
Current System: None

Technical Details

of Poles: 64
Pole Height: 30ft
Pole Type: Design
Battery Type: AGM

Project Cost and Sustainability

The analysis below examines the economics over a 10 year period, implementing an Inovus Off-Grid Solar-Enhanced lighting solution instead of a traditional On-Grid 100 watt HID lighting solution.

Cost

Payback Period: Immediate

Overall Cost Savings: \$36,068.69 5%

Sustainability

Energy Savings: 35880.96 kWh / year

Carbon Reduction: 53821.44 lbs / year

Up Front Capital Expenses

Capital Expense	Inovus	Traditional
Hardware	\$581,862	\$83,200
Infrastructure	\$0	\$506,304
Installation	\$64,000	\$64,000
Total Project Cost	\$645,862	\$653,504
Net Savings	\$7,642	

Operating Cost

Operating Cost	Inovus	Traditional
Energy Cost	\$0	\$45,131
Maintenance Cost	\$69,504	\$52,800
Total Operating Cost	\$69,504	\$97,931
Net Savings	\$28,	427







MEETING NOTES

SUBJECT: Chinle Street Lighting Pre-Scoping Kick-off-Meeting & Field Review

DATE: Thursday, August 13, 2015 TIME: 1:00 pm - 5:00 pm (MDT)

LOCATION: Chinle Chapter House, Off of Navajo Route 7, Chinle, AZ

1. INTRODUCTIONS AND PRE-SCOPING PROCESS OVERVIEW

- See sign-in sheet for attendees (attached)
- o This is the first tribal PARA project
 - Input from the team is needed

2. PROJECT BACKGROUND

- o Background
 - Process began 4 years ago
 - Project is included in the Chapter's comprehensive land use plan, but is not on the TIP
 - Chinle Chapter is LGA certified since 2010
 - Responsible to take care of their own funds
 - Officials can control things
 - Obtain their own funding
 - Not required to go through the Navajo Nation
 - Chinle is a growth area
 - Advocating for improving their economy
 - Central on the Navajo Nation
 - Priority is economic development
 - o 6 business site licenses along N7
 - o Tourism is part of this as well
- Project Need
 - Safety is a concern
 - Pedestrians and livestock can't be seen at night
- o Project Goals
 - Prepare Pre-Scoping Documents
 - Scope, Schedule, and Budget
 - Assist Chapter in adding project to the TIP

3. ENGINEERING CONSIDERATIONS

- Scope of Work
 - Provide street lighting
 - Provide crosswalk warning lights
- Existing Conditions
 - Road
 - US 191 to Nazlini Wash bridge
 - o 4 lanes with two-way left-turn lane



- o The sidewalk is at the ROW on the north side of N7
- There is no sidewalk along the south side of N7 adjacent to the high school
- The sidewalk is at the ROW on the south side of N7 between the high school and Nazlini Wash
- Naslini Wash bridge to N27
 - 4 lanes without turn lanes
 - The sidewalk is behind the curb on the north and south side of N7
- Drainage
 - Nazlini Wash
 - Sheet flow on road
- Existing Data Review
 - US 191 MP 444 to 465 RSA (April 2012) Recommendations
 - Install a countdown timer at the US 191/N7 intersection
 - Add a "Keep Right" sign on N7 WB median approaching US 191
 - Chinle Street Plan (September 2000)
 - Identified flood prone area between Chinle and Nazlini washes
 - Crash Data
 - 9 at US191/N7; 22 along N7; 2 at N7/N27
 - Transit Needs
 - Navajo Transit System stops 2 times per day at US 191/N7

4. ENVIRONMENTAL CONSIDERATIONS

- o A public hearing may be needed
 - Some houses are close to roadway
 - There may be lighting issues in bedrooms
 - Shielding may be an option
 - Concern with where a pole height would be and whether or not it could hit your house
- Excavation for foundations will have to be considered
- o Excavation for conduit will have to be considered (if conventional lighting is used)

5. RIGHT-OF-WAY CONSIDERATIONS

- Owned by BIA
- o 75 feet left and right of N7 centerline from US 191 to Nazlini Wash bridge
- 50 feet left and right of N7 centerline from Nazlini Wash bridge to N27
- o There are structures within their right of way that shouldn't be there
- o ADOT has near the U191/N7 intersection
 - Coordination with ADOT ROW Group will be necessary

6. UTILITY CONSIDERATIONS

- There are existing overhead power lines on the north side of N7 for the entire length of the project
- o There are existing water lines on the north side of N7 for the entire length of the project
- There are multiple existing water lines crossing N7 throughout the project



- o There is existing fiber optic cable on the south side of N7 for the entire length of the project
- There are existing gas lines of the south side of N7 from US 191 to N27
- There are existing gas line on the north side of N7 from N27 to the Holiday Inn
 - New facilities must be separated from the natural gas facilities by a minimum of five feet
- Prior right determination will be required

7. BRIDGE CONSIDERATIONS

- The intent with this project is to not put lighting on the bridge
- We don't anticipate attaching anything to the bridge

8. TRAFFIC/LIGHTING CONSIDERATIONS

- The intent is to locate light poles behind sidewalk except where the sidewalk is at the existing ROW.
- Lighting
 - The Chapter prefers solar LED lights
 - Solar LED lights
 - LEDs put out more light at a much lower wattage
 - Information from solar light manufacturer Innovus
 - o Approximately the same upfront cost as conventional lighting
 - Recommended wrap around solar panels instead of top of pole mounts
 - No snow or dust impact
 - Bullet proof
 - o 10-year operating cost is less than conventional lighting
 - o Battery life is 5 years
 - Conventional Lights
 - Trenching impacts
 - Utilities
 - o Environmental footprint
 - Avoid trenching through Nazlini Wash
 - Tie in to existing lights along US 191
 - Tie in to existing power source east of Nazlini Wash
 - Copper theft is a concern with conventional lighting
- Crosswalk warning lights
 - Chinle Unified School District is working on installing warning lights
 - 2 locations
 - o 0.17 miles east of US 191
 - 0.35 miles east of US 191
 - o Locations are currently striped as crosswalks
 - Lighting systems are anticipated to be solar powered
 - They need justification for the lighting system
 - Number of people going across the crosswalk
 - This project team should work with the school if they have funding



- Build together with an JPA/IGA
- Build separately and coordinate designs
- o MOT
 - Outside lane closure will be required for light pole installation

9. MAINTENANCE CONSIDERATIONS

- Once a solar system is in place, who will be responsible for maintaining it? Do they have the equipment on hand?
 - The Fort Defiance project included:
 - Cost sharing NDOT and chapter to replace pole
 - Cleaning and battery done by BIA; assistance by NTA with boom truck
 - Will look at the same kind of agreement for maintenance on this project

10. REVIEW OF PROJECT RISKS

- o Existing sidewalk is 3 feet. If we widen to 5 feet, ROW may an issue
- Battery location in light pole
 - Vandalism
 - Ditches do overtop occasionally; location of battery is critical

11. REFINE PROJECT SCOPE AND LIMITS

- Extend the end of the project to Holiday Inn (additional 0.5 miles)
- BIA has a roundabout project at N7 and N27
 - Lighting design will need to be coordinated
 - ROW is being widened where the roundabout is going in
- Update/add sidewalk
 - Add new 5-foot sidewalk where there isn't any
 - Replace existing 3-foot sidewalk with 5-foot sidewalk
 - Upgrade sidewalk ramps to current ADA standards

12. FIELD REVIEW REPORT

- Chinle High School
 - Add sidewalk on the south side of N7
 - Replace existing lights at the school entrance
- o Best Western
 - Add curb and gutter to prevent trucks from parking along the road
 - May require curb inlets for drainage
 - Replace existing lighting
- Businesses throughout
 - Lighting spacing design will have to accommodate existing driveways
 - Pole locations will have to consider existing ditches and utilities
 - Replace existing lighting at driveways
- o Pavement marking needs to be refreshed throughout the entire project

ATTACHMENTS:

1. Sign-in Sheet

Chinle Street Lighting Pre-Scoping Kick-Off Meeting & Field Review

Thursday, August 13, 2015 • 1:00 PM to 5:00 PM (MDT)
Chinle Chapter House • Navajo Route 7 Building 4600 • Chinle, AZ 86503

Completion of this sign-in sheet is completely voluntary and helps the project team keep an accurate record of meeting attendees. Under state law, any identifying information provided below will become part of the public record and, as such, must be released to any individual upon request. Please print clearly.

NAME	TITLE	AGENCY	PHONE	EMAIL
Dar Swed	Somia Planner	ADOT	602-712-6736	dsneedeazdot,gar
Dan Gabiou	PARA Program Manager	ADOT	602-712-7025	dyabiou@azdot.gov
Todd Williams	Environmental Services Direct		602-798-7556	todd. williamse mbekeriallesen
Chad Andrews	Design Manager	Midwel Baker Intil	602-798-7560	candraus@mbakerintl.com
Marco Sells	Planner	Novoja DOT	(928) 674-2136	msells@navajodst.org
Calvin Castillo	HIGHWAY EUGINEEL	NEPOT	(505) 863-8282	Calvin, Castillo C Bia. spu
Garret Silversmith	HIGHWAY EUGINEEL Supervisory Highway Engineer	Chinle/central		garret.silversmithebia.go
Walton Vazzie	Chapter Manager	Chinle/central		wtazzie@navajochapters.
Throne J. Began	Chapter Planner	Chile Chap. G. A	0-12 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1	
CONFELLA A.D. DXCH	ADOT URR PLACETAFF/HELPROCK COOK	ADOTURR	602,712,6232	cdixalogridot gov
Keel forge	Project Development Engineering Special	fut Dot-Holbrack	928-524-5406	chineplanmoral regnailie cdixapazdot.gov Kyozzie e azdot.gov





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NAME	TITLE	AGENCY	PHONE	EMAIL
Pe-Shen Yang	assistant state Bridge Dr	F. ADOT	(602) 113 - 8606	Pjangaazdot.gov
Michael Ddin	CGG- Blochrican	Chinle Chapter	(928) 269 - 4268	msddig 48 gmail.com
Ron Curtis	Highway Operations Supervisor	ADOT-Garado	98-755-3579	rountis Cazdot. gov
Jade John	CCG - Acting Coordinator	Chinle Chapter	(928) 349 -9630	Jude_ John 15@ Yuhou .com
Danny W. Halwood Jr.	Cea- Actor Admin. Ass.			Lhalwood Pharajo chapters.
Cynthia Hunter	Uninte chapter Secretary Treasurer	awnle	918-674-2052	Chunter@navajochapters or
Sharon Yanie	Secretary Treasurer Legislative Detrict Asistant to Chinle Council Delegate LHD Pete	Chinle	1001	shyarrie@navajo-nsu.gov
Rayoy Routhier	ų –		DK 929-524-5402	rrowthier eazdot.gov
Melvin Taliman Tr.	District Develop. Engine NTUA-COGM ENGRETECH W/WN	NTWA FIDELIANCE	928:729:5721 Ext.6215	melinte nha com
Cerry D. Henry	Struct. Engr.	BIA NRO DOT	505-863-8457	Corwyn. Henry @ BIA. Goy
Harold Riley	PED Branch Chief	BIA NRDOT	11 11 828	harold. rileyebia.gov
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NAME	TITLE	AGENCY	PHONE	EMAIL
SHAWN MITCHELL	FRONTIER COMM.	FRONTIER	928-871-3800	shawn mitchelle ftercom



















