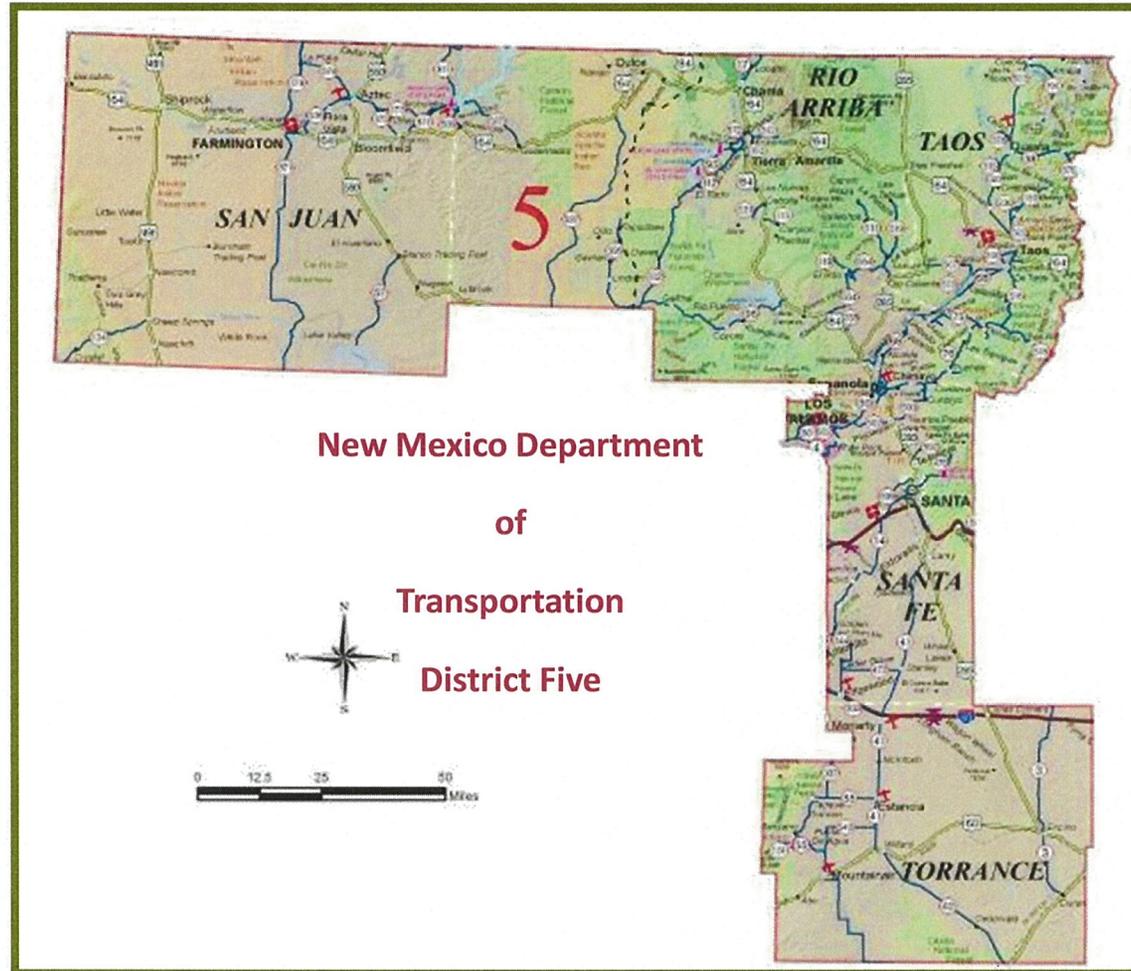


TRANSPORTATION INFRASTRUCTURE REVENUE SUBCOMMITTEE



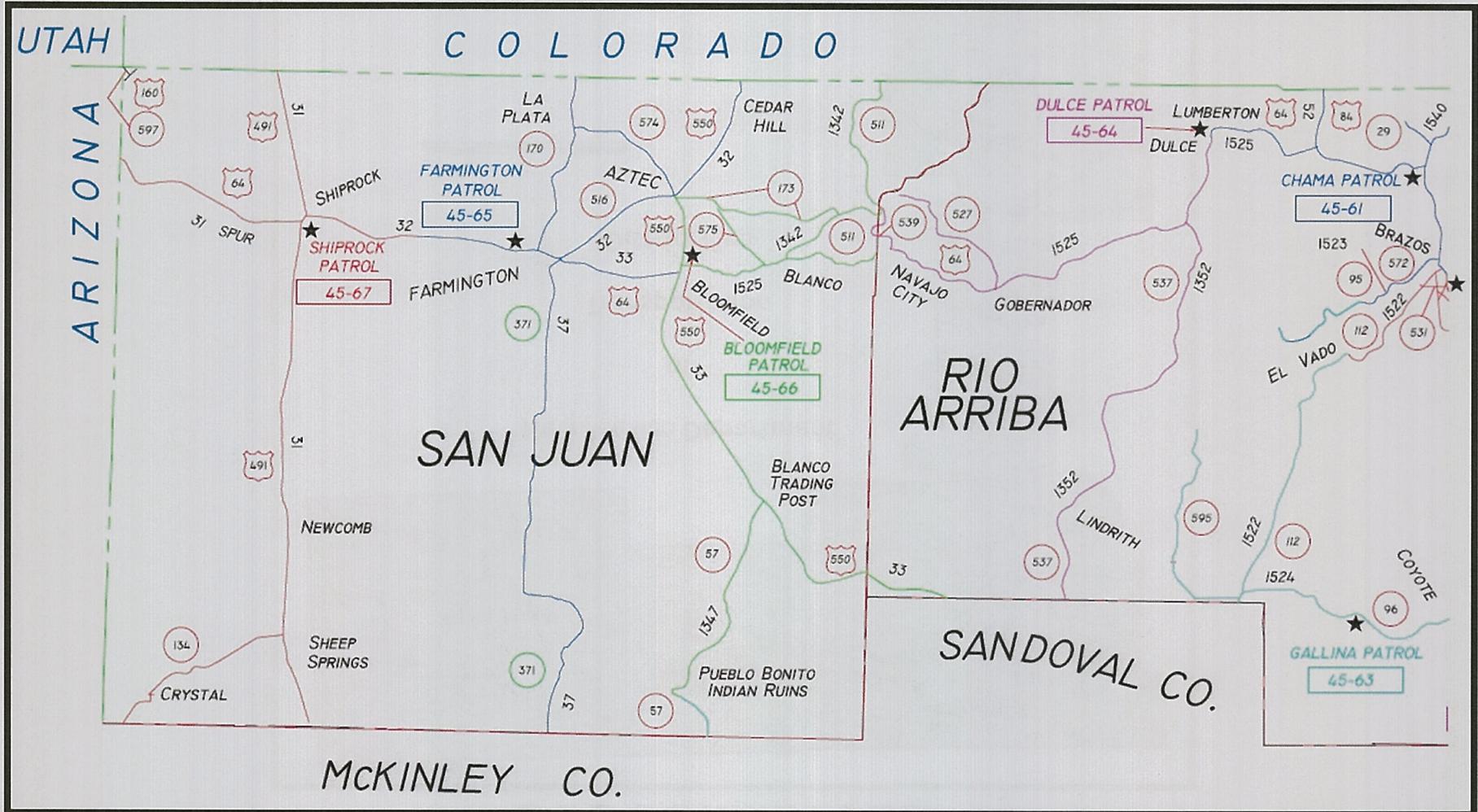
New Mexico Department
of
Transportation
District Five

Miguel B. Gabaldon, Jr., P.E.
District Engineer

July 23, 2014



San Juan Basin within District Five



NMDOT District Five Routes Supporting Oil/Gas Industry

- **Primary Highways**
 - **US 64**
 - **US 491**
 - **US 550**
 - **NM 371**
- **Secondary Highways**
 - **NM 170**
 - **NM 173**
 - **NM 511**
 - **NM 537**
- **Tertiary Highways**
 - **NM 527**
 - **NM 539**
 - **NM 574**



Impacts of Oil/Gas Traffic on District Five Highways

- **Pavement Distress**
 - **Rutting**
 - **Fatigue Cracking**
 - **Shoving/Heaving**
 - **Pavement Edge Breaking**
- **Level of Service Capacity**
 - **Intersections**
 - **Open Highways**
- **Bridge/Structure Impacts**
 - **Bridge Width**
 - **Bridge/Structure Loading Capacity**



Impacts of Oil/Gas Traffic on District Five Highways



U.S. 64 MP 97



NM 170 MP 16



NMDOT Infrastructure Planned Maintenance Projects along Oil/Gas Traffic Routes

ROUTE	BEG MP	END MP	TOTAL LANE MILES	SCOPE OF WORK	ESTIMATED COST	YEAR COMPLETED/PLANNED
PAVEMENT/BRIDGE PRESERVATION/REHABILITATION - DISTRICT PROGRAM						
US 64	14	20	12	HEATER SCARIFICATION OVERLAY	\$ 1,300,000	COMPLETED 2014
US 64	81	87	12	HEATER SCARIFICATION OVERLAY	\$ 1,300,000	ACTIVE 2014
US 64	99	102	6	COLD POUR CRACK SEAL	\$ 106,000	SCHEDULED 2014
NM 371	85	92	14	COLD POUR CRACK SEAL	\$ 375,000	SCHEDULED 2014
NM 371	82	92	20	CHIP SEAL	\$ 300,000	SCHEDULED 2014
NM 371	97	104	14	CHIP SEAL	\$ 210,000	SCHEDULED 2014
NM 170	14.5	19.5	10	PAVEMENT REHABILITATION	\$ 1,250,000	PLANNED 2015
NM 170	14.5	19.5	10	CHIP SEAL	\$ 150,000	PLANNED 2015
NM 574	0	6	12	PAVEMENT REHABILITATION	\$ 1,500,000	PLANNED 2015
NM 574	0	6	12	CHIP SEAL	\$ 180,000	PLANNED 2015
NM 574	6	13	14	PAVEMENT REHABILITATION	\$ 1,750,000	PLANNED 2016
NM 574	6	13	14	CHIP SEAL	\$ 210,000	PLANNED 2016
				ESTIMATED COST	\$ 8,631,000	



NMDOT Infrastructure STIP Projects Along Oil/Gas Traffic Routes

- **US 64; MP 58 to MP 60; Roadway Reconstruction; FY 2015/2016**
 - **\$15,350,000**
- **US 64; MP 56 to MP 58; Roadway Reconstruction; FY 2017/2018**
 - **\$15,750,000**
- **NM 371; MP 76 to MP 82; Pavement Preservation; FY 2017**
 - **\$3,500,000**
- **NM 170; MP 16.691 to MP 17.287; Bridge Replacement; FY 2014**
 - **\$1,149,097**
- **NM 574; MP 0.3; Bridge Replacement; FY 2016/2017**
 - **\$2,555,660**
- **NM 173; MP 2 to MP 3.5; Safety Project; FY 2015/2016**
 - **\$2,000,000**

Total STIP Projects Costs => \$ 40,304,757



NMDOT Infrastructure Needs for Accommodating Oil/Gas Traffic

- **Pavement Rehabilitation**
- **Shoulder Widening & Roadway Construction**
- **Bridge Preservation**
- **Bridge Rehabilitation**
- **Bridge Construction**



NMDOT Infrastructure Unfunded Needs Oil/Gas Traffic Routes

- **Pavement Rehabilitation**
 - US 64 (MP 107-115) => \$4.0 Million
 - US 491 (N. of Shiprock) => \$6.5 Million
 - US 550 (MP 143-159) => \$16.0 Million

Total Est. Pavement Rehab. Needs => \$ 26.5 Million

- **Shoulder Widening and Roadway Construction**
 - US 64 (MP 76-107) => \$6.9 Million
 - US 64 (MP 115-124) => \$17.2 Million
 - NM 170 (N. of NM574) => \$10.6 Million
 - NM 173 (MP 0-19) => \$36.3 Million
 - NM 511 (US 64 to Colorado S.L.) => \$85.0 Million

Total Est. SW & RC Needs => \$156.0 Million



NMDOT Infrastructure Unfunded Needs

Oil/Gas Traffic Routes

Bridge/Structure Impacts:

- Over 200 bridges/structures on NMDOT Highways within the San Juan Basin
- Approximately 30 bridges/structures require replacement
- Approximately \$55 Million to replace bridges/structures



NM 170, MP 17.3 (North of La Plata)



Questions
Thank You !

