

LOS ALAMOS COUNTY

NM STATE ROAD 4 - 16" TRANSMISSION LINE REPLACEMENT

LOS ALAMOS COUNTY, NM



LOS ALAMOS

May 2024

PROJECT DESCRIPTION:

- INSTALL 16,019 LINEAR FEET OF 16" D.I.P. CLASS 250 WATERLINE
- INSTALL 2,599 LINEAR FEET OF 12" D.I.P. CLASS 250 WATERLINE
- INSTALL COMBINATION AIR VALVES
- INSTALL 12" & 16" GATE VALVES
- INSTALL FIRE HYDRANT ASSEMBLY

GENERAL SHEETS

Sheet Number	Sheet Title
G-1	COVER SHEET
G-2	GENERAL NOTES
G-3	LEGEND AND SHEET SET
G-4	SHEET LAYOUT
G-5	SURVEY CONTROL

DETAIL SHEETS

Sheet Number	Sheet Title
D-1	DETAILS SHEET (1 OF 8)
D-2	DETAILS SHEET (2 OF 8)
D-3	DETAILS SHEET (3 OF 8)
D-4	DETAILS SHEET (4 OF 8)
D-5	DETAILS SHEET (5 OF 8)
D-6	DETAILS SHEET (6 OF 8)
D-7	DETAILS SHEET (7 OF 8)
D-8	EXISTING CONDITIONS

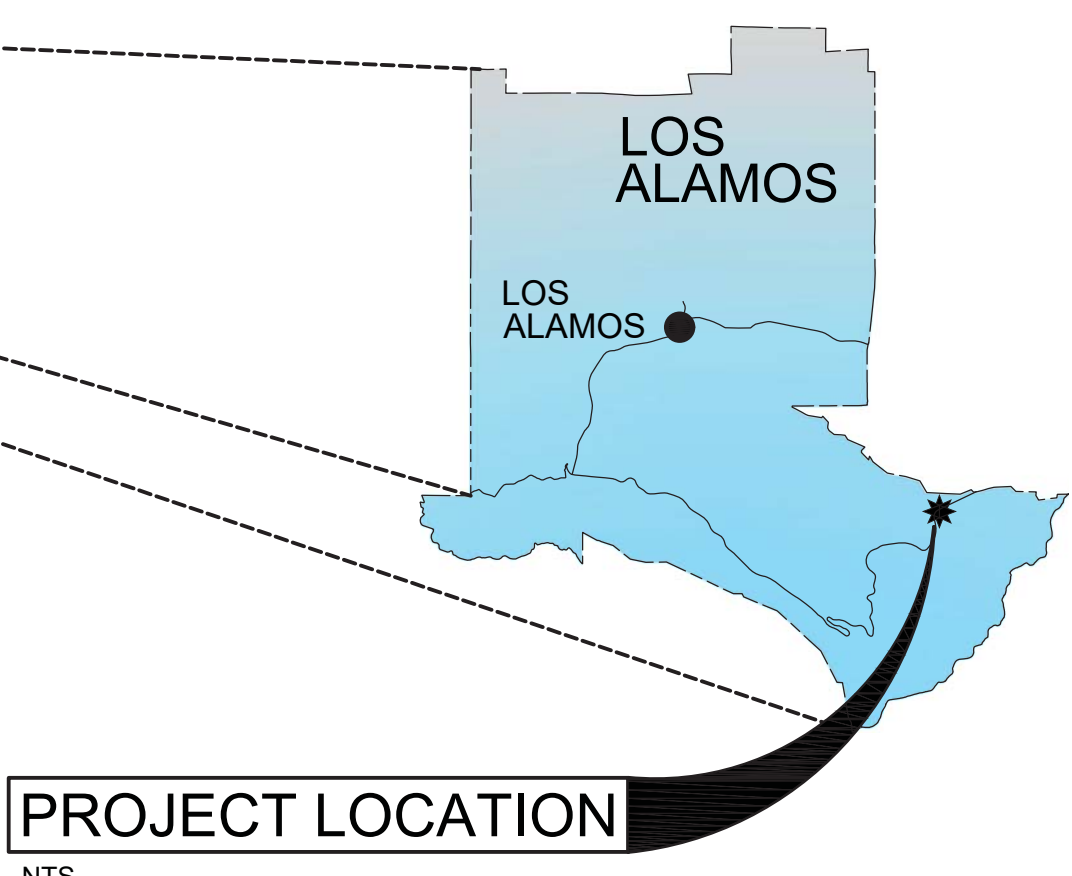
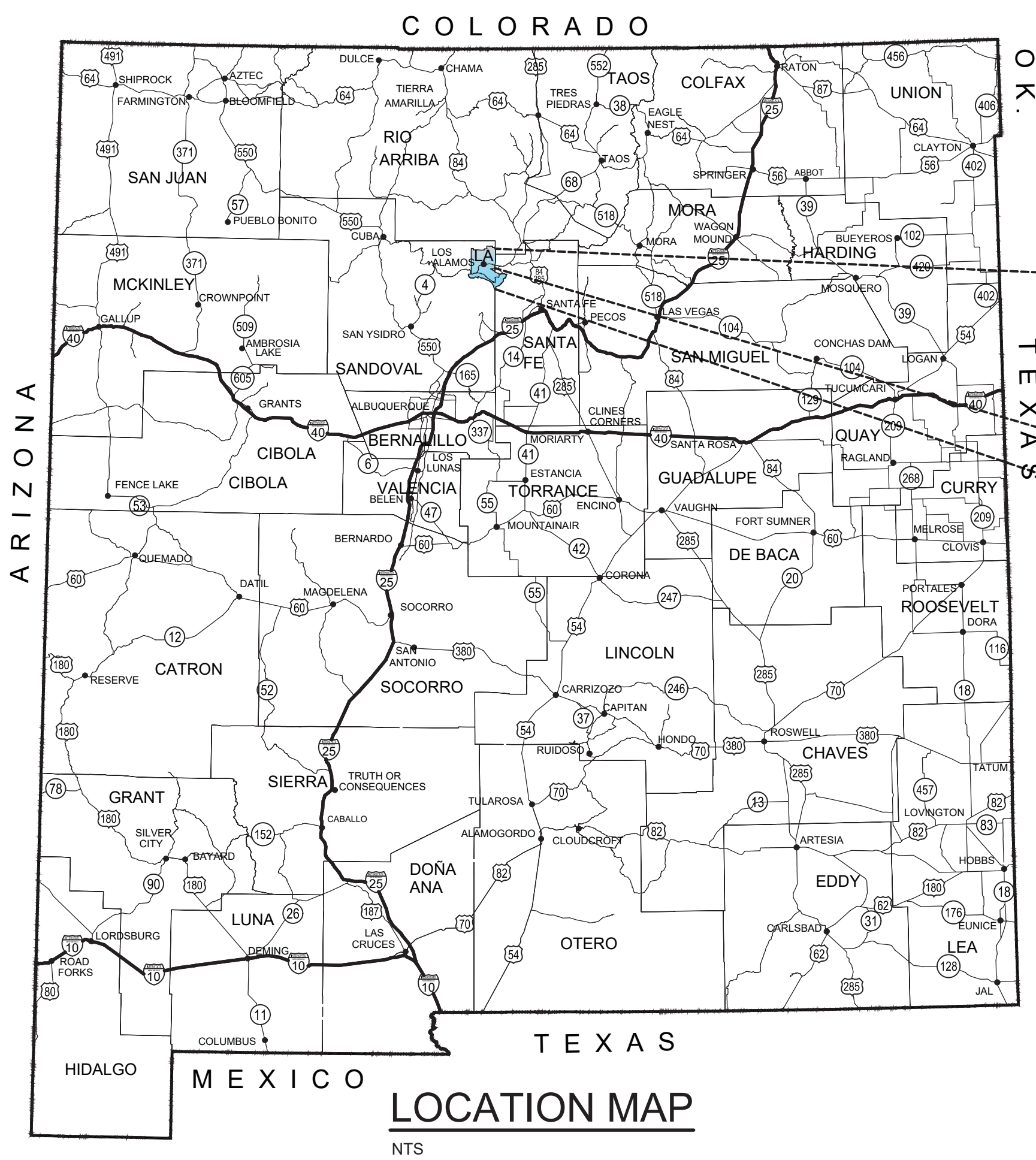
TRAFFIC CONTROL SHEETS

Sheet Number	Sheet Title
TC-1	SIGN FACE DETAILS
TC-2	SHOULDER WORK DETAIL
TC-3	LANE CLOSURE DETAIL

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION ON BEHALF OF SOUDER, MILLER & ASSOCIATES.

Marty Howell
MARTY HOWELL, P.E.
 PROJECT MANAGER
 6/25/2024
 DATE

THE SEAL AND SIGNATURE OF THE PROFESSIONAL REGISTRANT IDENTIFIED ON THIS COVER SHEET DOES NOT SUGGEST RESPONSIBLE CHARGE FOR ALL SHEETS CONTAINED WITHIN THIS PACKAGE; PLAN SHEETS NOT SIGNED AND SEALED ARE NOT THE RESPONSIBILITY OF THE PROFESSIONAL REGISTRANT IDENTIFIED ON THIS COVER SHEET. PLEASE REFER TO PROFESSIONAL REGISTRANTS IDENTIFIED ON INDIVIDUAL PLAN SHEETS.



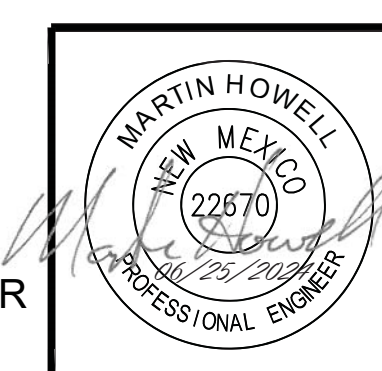
CIVIL SHEETS

Sheet Number	Sheet Title
C-1	NM 4 NORTH WATERLINE PLAN & PROFILE STA: 0+00 TO STA: 8+45
C-2	NM 4 NORTH WATERLINE PLAN & PROFILE STA: 8+45 TO STA: 16+90
C-3	NM 4 NORTH WATERLINE PLAN & PROFILE STA: 16+90 TO STA: 25+35
C-4	NM 4 NORTH WATERLINE PLAN & PROFILE STA: 25+35 TO STA: 33+90
C-5	NM 4 NORTH WATERLINE PLAN & PROFILE STA: 33+90 TO STA: 41+60
C-6	NM 4 NORTH WATERLINE PLAN & PROFILE STA: 41+60 TO STA: 44+22
C-7	NM 4 SOUTH WATERLINE PLAN & PROFILE STA: 0+00 TO STA: 8+45
C-8	NM 4 SOUTH WATERLINE PLAN & PROFILE STA: 8+45 TO STA: 16+90
C-9	NM 4 SOUTH WATERLINE PLAN & PROFILE STA: 16+90 TO STA: 25+35
C-10	NM 4 SOUTH WATERLINE PLAN & PROFILE STA: 25+35 TO STA: 33+80
C-11	NM 4 SOUTH WATERLINE PLAN & PROFILE STA: 33+80 TO STA: 42+25
C-12	NM 4 SOUTH WATERLINE PLAN & PROFILE STA: 42+25 TO STA: 50+70
C-13	NM 4 SOUTH WATERLINE PLAN & PROFILE STA: 50+70 TO STA: 59+15
C-14	NM 4 SOUTH WATERLINE PLAN & PROFILE STA: 59+15 TO STA: 67+60
C-15	NM 4 SOUTH WATERLINE PLAN & PROFILE STA: 67+60 TO STA: 76+05
C-16	NM 4 SOUTH WATERLINE PLAN & PROFILE STA: 76+05 TO STA: 84+50
C-17	NM 4 SOUTH WATERLINE PLAN & PROFILE STA: 84+50 TO STA: 92+95
C-18	NM 4 SOUTH WATERLINE PLAN & PROFILE STA: 92+95 TO STA: 101+40
C-19	NM 4 SOUTH WATERLINE PLAN & PROFILE STA: 101+40 TO STA: 109+85
C-20	NM 4 SOUTH WATERLINE PLAN & PROFILE STA: 109+85 TO STA: 118+30
C-21	NM 4 SOUTH WATERLINE PLAN & PROFILE STA: 118+30 TO STA: 126+75
C-22	NM 4 SOUTH WATERLINE PLAN & PROFILE STA: 126+75 TO STA: 135+20
C-23	NM 4 SOUTH WATERLINE PLAN & PROFILE STA: 135+20 TO STA: 142+28

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**NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT
 ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER
 SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.**



Rev #	Date	Description	By	Chk'd

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GENERAL NOTES

CONSTRUCTION REQUIREMENTS

- 1. CONTACT "NEW MEXICO ONE CALL" AT 1-800-321-2537, THREE (3) WORKING DAYS IN ADVANCE OF CONSTRUCTION FOR UTILITY DEMARCATION.
2. ALL WATERLINES SHALL BE INSTALLED TO A MINIMUM COVER OF FORTY-EIGHT (48) INCHES AND SHALL BE DETERMINED FROM THE ADJACENT ROADWAY ELEVATIONS IF THE ROADWAY IS LOWER THAN THE EXISTING ELEVATIONS ALONG THE WATERLINE ALIGNMENT, UNLESS NOTED OTHERWISE. THIS INCLUDES ANY CROSSING SERVICES OR LATERALS INSTALLED. EXCEPTIONS MUST BE AUTHORIZED BY THE ENGINEER.
3. THE CONTRACTOR SHALL STAMP THE CONCRETE OF EACH MANHOLE COLLAR AND VALVE COLLAR WITH THE UNDERLYING PIPE SIZES AND THE DIRECTION(S) OF FLOW. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE MANHOLE OR VALVE BID ITEMS, AND NO ADDITIONAL PAYMENT SHALL BE MADE THEREFOR.
4. THE CONTRACTOR IS REQUIRED TO PROVIDE DUST AND EROSION PROTECTION TO INHIBIT DUST, WIND, AND AIR SEDIMENT MOVEMENT OFFSITE, AS PART OF GRADING WORK, THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.
5. CONTRACTOR MUST CONTACT AND COORDINATE AS NECESSARY WITH LOCAL ELECTRIC SERVICE PROVIDER REGARDING REQUIREMENTS FOR PIPELINE CONSTRUCTION WITHIN 20 (TWENTY) FEET OF ELECTRIC POLES.

PERMITS

- 6. ALL PERMITS REQUIRED FOR CONSTRUCTION, INCLUDING ALL IRRIGATION DISTRICT, LOCAL, CITY, COUNTY, STATE, TRIBAL, AND FEDERAL PERMITS, ARE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS ALREADY PROVIDED BY THE ENGINEER IN THE CONTRACT DOCUMENTS.
7. ALL PERMIT FEES ARE PAYABLE BY THE CONTRACTOR, AND SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION UNLESS A SPECIFIC BID ITEM EXISTS FOR THE PERMIT WORK.
8. NO TIME EXTENSIONS WILL BE ALLOWED DUE TO THE NORMAL PERMITTING PROCESSES.
9. ANY FINES ASSOCIATED WITH NOT OBTAINING NECESSARY PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
10. IT IS THE ENGINEER'S RECOMMENDATION THAT ALL BIDDERS CONTACT THE APPROPRIATE AGENCIES PRIOR TO BIDDING TO ENSURE THAT ALL APPROPRIATE FEES, COSTS, AND SCHEDULES FOR THE PERMITS REQUIRED ARE KNOWN PRIOR TO BIDDING.
11. A NEW MEXICO DEPARTMENT OF TRANSPORTATION UTILITY PERMIT HAVE BEEN ACQUIRED BY THE OWNER AND ARE AVAILABLE UPON REQUEST. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE TERMS OF THE PERMITS RELATED TO CONSTRUCTION. COST OF COMPLIANCE WITH THESE PERMITS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, AND NO ADDITIONAL PAYMENT SHALL BE MADE THEREFOR.

ROCK EXCAVATION

- 12. SINCE THERE MAY BE LARGE VARIATIONS IN THE QUANTITY OF ROCK EXCAVATION REQUIRED, CONTRACTOR IS HEREBY NOTIFIED THAT THERE WILL BE NO ADDITIONAL COMPENSATION FOR OVERHEAD RECOVERY OR OTHER COSTS INCURRED BY THE CONTRACTOR FOR OVERRUNS OR UNDERUNS (NO MATTER HOW SIGNIFICANT) ON THE ROCK EXCAVATION QUANTITIES.
13. THE CONTRACTOR SHALL COORDINATE CLOSELY WITH THE OWNER'S REPRESENTATIVE ON THE PROJECT FOR ALL ROCK EXCAVATION QUANTITIES, INCLUDING MAKING SURE THAT DEPTHS AND EXTENTS OF ROCK EXCAVATION ARE MEASURED AND AGREED UPON BEFORE ROCK EXCAVATION IS PERFORMED.

TRAFFIC CONTROL

- 14. THE CONTRACTOR SHALL MAINTAIN THE PROPER TRAFFIC CONTROL DEVICES DURING CONSTRUCTION IN COMPLIANCE WITH THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LOCAL, AND STATE AGENCIES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR IMPLEMENTING, PROTECTING AND MAINTAINING ANY NECESSARY TRAFFIC CONTROL.

UTILITY LOCATION

- 15. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR UTILITY LOCATION, PROTECTION AND VERIFICATION PER STATE LAW. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES AND THE ENGINEER WITH REGARD TO RELOCATING, ADJUSTING, REPLACING AND/OR REPAIRING UTILITIES DURING CONSTRUCTION. ADDITIONALLY, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES AND OTHER OBSTRUCTIONS IN RELATION TO THE PROPOSED IMPROVEMENTS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMAL DELAY. DELAYS CAUSED OR COSTS INCURRED BECAUSE OF UTILITY CONFLICTS OR OTHER OBSTRUCTIONS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
16. UTILITIES SHOWN IN THESE CONSTRUCTION PLANS ARE SHOWN IN THEIR APPROXIMATE LOCATION ONLY, AND SHALL NOT BE RELIED UPON BY THE CONTRACTOR. FIELD MARKS MADE BY THE INDIVIDUAL UTILITIES SHALL OVERRIDE ANY LOCATION SHOWN IN THESE PLANS. UTILITIES LOCATED BY THE CONTRACTOR SHALL BE ANNOTATED AND THE LOCATION IDENTIFIED IN THE CONTRACTOR'S AS-BUILTS KEPT AND MAINTAINED ON-SITE.
17. THE EXISTING UTILITIES, STRUCTURES, AND CULVERTS SHOWN ON THESE PLANS ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL PERFORM A FIELD REVIEW OF THE ALIGNMENT TWO WEEKS PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ALLOW APPROPRIATE TIME FOR REDESIGN IF NECESSARY. AFTER THE CONTRACTOR HAS HAD HIS SURVEYOR STAKE THE PROPOSED WATERLINE AND THE EXISTING UTILITIES HAVE BEEN MARKED ON THE GROUND, THE CONTRACTOR SHALL CONDUCT A FIELD REVIEW OF THE WATERLINE ALIGNMENT AS IT HAS BEEN STAKED. IF THE ALIGNMENT OF THE PROPOSED WATERLINE WILL CREATE UTILITY CONFLICTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE ALIGNMENT CAN BE REVIEWED AND MODIFIED, IF NECESSARY. ALL MODIFICATIONS TO THE WATERLINE ALIGNMENT AND PROFILE MUST BE APPROVED BY THE ENGINEER. ANY CONSTRUCTION DELAYS CAUSED BY THE CONTRACTOR'S FAILURE TO PERFORM THE FIELD REVIEW, OR BY THE CONTRACTOR'S FAILURE TO NOTIFY THE ENGINEER OF ANY CONFLICTS TWO WEEKS PRIOR TO CONSTRUCTION SHALL BE DEEMED TO BE DELAYS CAUSED BY THE CONTRACTOR, AND THE CONTRACT TIME WILL NOT BE EXTENDED FOR SUCH DELAYS.
18. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A COMPREHENSIVE CONSTRUCTION SEQUENCE AND SCHEDULE PRIOR TO COMMENCEMENT OF CONSTRUCTION THAT TAKES INTO ACCOUNT THE FIELD LOCATIONS OF EXISTING UTILITIES AND ANY CONFLICTS WITH THE PROPOSED IMPROVEMENTS.

EXISTING WATER SYSTEM

- 19. THROUGHOUT THE LIFE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE EXISTING WATER SYSTEM OPERATING. THE CONTRACTOR SHALL REPORT WATER SHUTOFFS TO THE ENGINEER SEVEN (7) OR MORE DAYS IN ADVANCE OF THE SHUT-OFFS. ANY INTERRUPTION OF WATER SERVICE SHALL BE KEPT TO THE MINIMUM LENGTH OF TIME POSSIBLE AND OCCUR DURING OFF-PEAK HOURS.
20. THE EXISTING WATER SYSTEM IS TO REMAIN OPERATIONAL UNTIL THE NEW SYSTEM IS ACCEPTED BY THE OWNER AND ANY DAMAGE TO THE EXISTING SYSTEM SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR.

- 21. ALL WATER SHUT-OFFS MUST BE COORDINATED WITH THE OWNER'S REPRESENTATIVE A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION SHUTOFF. CONNECTION TO THE NEW POTABLE WATERLINE SHALL NOT TAKE MORE THAN EIGHT (8) HOURS. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED PROPERTY OWNERS OF THE PENDING OUTAGE ONE (1) WEEK PRIOR TO THE OUTAGE AND AGAIN ONE (1) DAY PRIOR TO THE OUTAGE.
22. FIRE HYDRANT LOCATIONS INDICATED ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE OWNER VIA THE RESIDENT PROJECT REPRESENTATIVE PRIOR TO INSTALLATION BY THE CONTRACTOR. THE CONTRACTOR SHALL REQUEST THE LOCATION FOR FIRE HYDRANT FROM THE OWNER VIA THE RESIDENT PROJECT REPRESENTATIVE AT LEAST ONE (1) WEEK PRIOR TO THE WORK COMMENCING.
23. CONTRACTOR SHALL VERIFY DEPTH AND SIZE OF CULVERT AT IRRIGATION AND DRAINAGE CROSSINGS PRIOR TO CONSTRUCTION/CONSTRUCTION.

PROTECTION OF EXISTING CONDITIONS

- 24. THE CARE AND PROTECTION OF ALL OTHER STRUCTURES, FENCING, LANDSCAPING, UTILITIES, PAVEMENT, DRAINAGE, STRUCTURES AND OTHER STREET APPURTENANCES IS THE RESPONSIBILITY OF THE CONTRACTOR. IF DAMAGED, LOST IN TRENCH, OR OTHERWISE DISTURBED, THESE ITEMS WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. WHERE TRENCHING BENEATH EXISTING UTILITY LINES OCCURS, THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPORTING THE LINE DURING CONSTRUCTION AND ENSURE THAT IT IS ADEQUATELY BACKFILLED AND COMPACTED.
25. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THE NECESSARY ADJUSTMENTS IN THE COMPACTION EQUIPMENT OR OPERATION FOR COMPACTION REQUIREMENTS SO THAT UNDERGROUND UTILITIES AND PERMANENT STRUCTURES ARE NOT DAMAGED. THE CONTRACTOR SHALL BE RESTRICTED TO A 35 TON (MAXIMUM) NON-VIBRATORY ROLLER FOR COMPACTATION IN AREAS WHERE THE USE OF HEAVIER EQUIPMENT COULD DAMAGE UNDERGROUND UTILITIES OR PERMANENTLY DAMAGE ADJACENT STRUCTURES.
26. ALL IMPROVEMENTS (INCLUDING FENCES, DITCHES, GUARDRAIL, SIGNS, TRAFFIC CONTROL DEVICES, DRIVEWAYS, LANDSCAPING, ORNAMENTS, ETC.) THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THE EXISTING CONDITIONS OF THE PROJECT SITE THROUGH VIDEO AS DESCRIBED IN THE PROJECT MANUAL.

PLAN CHANGES, AS-BUILTS, RECORD DRAWINGS

- 27. IF THERE IS A CONFLICT BETWEEN THE PLANS, SPECIFICATIONS AND/OR MANUFACTURER'S INSTRUCTIONS OR RECOMMENDATIONS FOR ANY DEVICE, PART, OR MATERIAL USED IN THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, IN WRITING, FOR CLARIFICATION AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION OF SAID DEVICE, PART, OR MATERIAL.
28. THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO WEEKS, AT ALL TIMES. THESE PLANS SHALL BE SUBJECT TO REVIEW BY THE ENGINEER THROUGHOUT THE PROJECT AND WILL BE REVIEWED BY THE ENGINEER FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 30 DAYS. PAYMENT MAY BE WITHHELD UNTIL AS-BUILT PLANS ARE CURRENT. THE CONTRACTOR SHALL PHOTOGRAPH THE CONSTRUCTION AND AREA OF DISTURBANCE ON A DAILY BASIS. THESE PHOTOS, A LOG OF THE DAILY PHOTOS AND THREE (3) SETS OF THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL PAYMENT.

CONSTRUCTION DEBRIS/DISPOSAL

- 29. THE CONTRACTOR SHALL PROVIDE AN AREA TO STORE CONSTRUCTION DEBRIS WHERE IT WILL NOT BE A NUISANCE. ALL DEBRIS SHALL BE CONTAINED IN SUCH A MANNER THAT WILL PREVENT SCATTERING. ALL DEBRIS, INCLUDING TREES AND UNDERGROWTH, SHALL BE DISPOSED OF PROPERLY WITHIN A PROPERLY PERMITTED LANDFILL. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM SITE PRIOR TO SUBSTANTIAL COMPLETION.
30. UNSUITABLE MATERIAL FROM SITE GRADING AND REMOVAL OPERATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR AND CONSIDERED INCIDENTAL.
31. ITEMS DESIGNATED FOR REMOVAL WITHOUT SALVAGE, UNSUITABLE CONSTRUCTION MATERIALS AND DEBRIS FROM CLEARING AND GRUBBING ARE TO BE PLACED IN AN ENVIRONMENTALLY SUITABLE DISPOSAL SITE SECURED AND COORDINATED BY THE CONTRACTOR, WITH THE APPROPRIATE REGULATORY AGENCIES' APPROVAL AND IN ACCORDANCE WITH THE SPECIFICATIONS FOR THIS PROJECT. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, IN WRITING, OF THE DETAILS OF THE DISPOSAL OPERATIONS.
32. CONTRACTOR IS HEREBY GRANTED SALVAGE RIGHTS TO ANY AND ALL CONSTRUCTION DEBRIS (EXCEPT AS SHOWN IN THE PLANS AND SPECIFICATIONS), PROVIDED THE CONTRACTOR USES SAID DEBRIS IN A LAWFUL MANNER. A LIST OF ITEMS SALVAGED SHALL BE REPORTED IN WRITING TO THE ENGINEER AND THE OWNER PRIOR TO SALVAGE ITEMS LEAVING THE SITE. EQUIPMENT, PUMPS, ETC. SHALL BE SALVAGED BACK TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE OWNER.
33. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STREETS FREE AND CLEAR OF ANY DEBRIS THAT IS TRACKED TO AND FROM THE SITE.

SITE ACCESS AND PROTECTION

- 34. THE CONTRACTOR IS RESPONSIBLE FOR SECURING A LOCATION FOR THE STAGING AND STORAGE OF EQUIPMENT AND SUPPLIES. THE OWNER SHALL NOT BE RESPONSIBLE FOR THE THEFT, LOSS, OR DAMAGE OF ANY CONTRACTOR EQUIPMENT OR SUPPLIES.
35. THE CONTRACTOR SHALL PROVIDE BARRIERS OR FENCING OR DIRECT OVERSIGHT TO PREVENT UNAUTHORIZED ENTRY TO CONSTRUCTION AREAS AND TO PROTECT EXISTING FACILITIES AND ADJACENT PROPERTIES FROM DAMAGE. ACCESS TO EXISTING FACILITIES ADJACENT TO THE CONSTRUCTION AREA SHALL BE SAFELY MAINTAINED THROUGHOUT CONSTRUCTION UNLESS APPROVED BY THE ENGINEER AND UNLESS PROPER NOTICE HAS BEEN GIVEN TO AFFECTED PARTIES.

ENVIRONMENTAL AND HISTORICAL PRESERVATION

- 36. IN THE EVENT THE CONTRACTOR ENCOUNTERS ITEMS OF ENVIRONMENTAL, CULTURAL AND/OR HISTORICAL IMPORTANCE, THE ENGINEER AND OWNER SHALL BE NOTIFIED IMMEDIATELY AND WORK IN THE AREA SHALL IMMEDIATELY CEASE UNTIL THE CONTRACTOR RECEIVES WRITTEN AUTHORIZATION TO PROCEED FROM THE OWNER/ENGINEER.
37. ALL WORK IN THE VICINITY OF LIVE STREAMS, WATER IMPOUNDMENTS, WETLANDS, OR IRRIGATION SUPPLIES SHALL BE COMPLETED IN SUCH A MANNER AS TO MINIMIZE VEGETATION REMOVAL, SOIL DISTURBANCE, AND EROSION.

SITE RESTORATION

- 38. SITE RESTORATION, INCLUDING TEMPORARY EROSION CONTROL PROVISIONS, IS A PREREQUISITE FOR PERIODIC AND FINAL PAYMENT.
39. SITE RESTORATION SEEDING OR PLANTING OF ANY DISTURBED AREAS SHALL FOLLOW NPDES STANDARDS. TOPSOIL EXCAVATION FROM THE SITE SHALL BE FREE OF WEEDS.

CONSTRUCTION STANDARDS

- 40. THE CONSTRUCTION OF THE PROJECT WILL BE GOVERNED BY THE FOLLOWING SPECIFICATIONS AND GUIDELINES COPIES OF WHICH SHALL BE KEPT AT THE CONSTRUCTION SITE BY THE CONTRACTOR AT ALL TIMES.
A. LOS ALAMOS COUNTY DEPARTMENT OF PUBLIC UTILITIES CONSTRUCTION STANDARDS, LATEST EDITION.
B. THE NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, LATEST EDITION.
C. OCCUPATIONAL SAFETY HEALTH ADMINISTRATION REGULATIONS FOR TRENCHING, SHORING & EXCAVATION.

- D. SUPPLEMENTAL TECHNICAL SPECIFICATIONS. ANY CONFLICT BETWEEN THE REQUIREMENTS OF THE SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER. IN GENERAL, THE MORE STRINGENT SPECIFICATION SHALL GOVERN.
45. ALL COMPONENTS, MATERIALS AND TREATMENT CHEMICALS THAT COME INTO CONTACT WITH DRINKING WATER SHALL BE CERTIFIED FOR CONFORMANCE TO ANS/NSF STANDARD 60 OR 61, AS APPLICABLE.

CONSTRUCTION LIMITS

- 46. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE CONSTRUCTION LIMITS OF THE PROJECT AND SHALL IN NO WAY ENCRDACH ONTO ADJACENT PROPERTIES UNLESS LEGAL EASEMENTS ARE PROVIDED OR SECURED BY THE CONTRACTOR. ALL FILL AND CUT SLOPES FOR STRUCTURES SHALL BE SET BACK FROM THE PROPERTY LINE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY AGREEMENTS NECESSARY OR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES.
47. THE LIMITS OF CONSTRUCTION AND LOCATIONS OF THE CONTRACTORS STAGING AREAS SHALL BE IDENTIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE LIMITS OF CONSTRUCTION SHALL BE CLEARLY DELINEATED AND SHALL BE THE MINIMUM REQUIRED TO MAINTAIN ALL WORKERS IN A SAFE CONDITION, TO PROVIDE ACCESS, AND TO MEET OSHA REGULATIONS.

SAFETY

- 48. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF SPILLS ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, AND OTHER MATERIALS WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. REPORTS SHALL BE MADE IMMEDIATELY TO THE NEW MEXICO ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT (505) 827-4308 OR (505) 470-3657, THE NATIONAL RESPONSE TEAM AT 1-800-424-8802 AND TO THE ENGINEER.
49. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY, AND FOR KNOWLEDGE AND COMPLIANCE WITH APPLICABLE OSHA STANDARDS. THE CONTRACTOR SHALL MAINTAIN ALL TRENCHES IN A SAFE CONDITION PROTECTING THE WORKERS AND THE GENERAL PUBLIC. TRENCH PROTECTION SHALL BE IN ACCORDANCE WITH APPLICABLE OSHA REGULATIONS. EXCAVATIONS SHALL BE SLOPED, BRACED, OR SHORED AS REQUIRED BY OSHA REGULATION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFE HANDLING OF CONSTRUCTION EQUIPMENT AND MATERIALS TO AND FROM THE STAGINGS/STORAGE AREA AND FOR SITE SECURITY. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND NO ADDITIONAL COMPENSATION SHALL BE MADE THEREFOR.
50. THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL WITHIN 30' FROM THE EDGE OF THE DRIVING LANE UNLESS THE EQUIPMENT OR MATERIAL IS PROPERLY SHIELDED UTILIZING CURRENT SAFETY DESIGN AND INSTALLATION METHODS. THE SAFETY DESIGN FOR SHIELDING SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE APPROVED BY THE ENGINEER BEFORE IMPLEMENTING. THIS WORK, INCLUDING DESIGN, SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
51. PRIOR TO AND DURING CONSTRUCTION, ALL ACCESS ROADS SHALL BE SERVICEABLE AND MAINTAINED FOR FIRE PROTECTION AND EMERGENCY VEHICLE ACCESS.

SWPPP

- 52. A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED FOR THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ITS PREPARATION AND IMPLEMENTATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
53. THE CONTRACTOR IS REQUIRED TO PROVIDE DUST AND EROSION CONTROL PROTECTION, AS A PART OF GRADING WORK, THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH NPDES BEST MANAGEMENT PRACTICES AND PER THE PROJECT SWPPP. IF APPLICABLE, THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE NECESSARY SITE EROSION CONTROL DEVICES FOR INHIBITING DUST, WIND, AND AIR SEDIMENT MOVEMENT OFFSITE THROUGHOUT CONSTRUCTION.

SURVEY

- 54. CONTRACTOR WILL BE RESPONSIBLE FOR CONSTRUCTION STAKING NECESSARY TO CONSTRUCT THE PROJECT. THE ENGINEER WILL SUPPLY CONTRACTOR WITH INFORMATION RELATED TO PROJECT COORDINATES AND CONTROL. THE CONSTRUCTION STAKING SHALL BE COMPLETED UNDER THE SUPERVISION OF A LICENSED SURVEYOR. THE CONSTRUCTION SURVEYOR SHALL VERIFY THE PROJECT CONTROL, THE EXISTING AND PROPOSED GRADES, EXISTING AND PROPOSED BUILDING FOOTPRINTS, SETBACKS AND TOPOGRAPHY PRIOR TO CONSTRUCTION. IF THE BID FORM DOES NOT INCLUDE AN ITEM FOR CONSTRUCTION STAKING, THE COST THEREOF WILL BE CONSIDERED INCIDENTAL TO RELATED WORK.
55. THE CONTRACTOR SHALL NOT DISTURB, COVER, OR REMOVE ANY SURVEY MONUMENTS, INCLUDING TRIANGULATION STATIONS, BENCHMARKS, MONUMENTS, SECTION CORNERS, N.M.D.O.T. MONUMENTS, LAND GRANT MARKERS, OR ANY OTHER PERMANENT REFERENCE MARKERS LOCATED WITHIN THE CONSTRUCTION LIMITS OR ON THE RIGHT-OF-WAY LINE OF THIS PROJECT UNLESS WRITTEN DOCUMENTATION REGARDING REFERENCING OF SAID MARKER HAS BEEN PROVIDED BY THE CONTRACTOR TO THE ENGINEER FOR HIS/HER APPROVAL. THE CONTRACTOR SHALL RESET DESTROYED MONUMENTS IN ACCORDANCE WITH STATUTE 61-23-1 NMSA AT HIS/HER OWN EXPENSE.

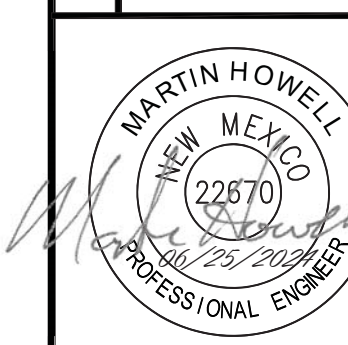
NMDOT

- 56. WORK TO BE PERFORMED IN NMDOT ROW SHALL MEET NMDOT STANDARDS, NMDOT MUST BE CONTACTED FIVE (5) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION WITHIN NMDOT ROW.
57. ANY VEGETATION THAT IS DUG UP SHALL BE REMOVED & DISPOSED OF OUTSIDE OF NMDOT ROW.
58. SUBMITTAL OF CONTRACTOR'S AND ALL SUBCONTRACTOR'S CERTIFICATE OF INSURANCE, WITH NMDOT LISTED AS ADDITIONAL INSURED AND THE AMOUNTS STATED IN THE NMDOT RAILROADS & UTILITIES MANUAL PRIOR TO COMMENCEMENT OF CONSTRUCTION.
59. ALL EXCAVATION WITHIN THE ROW SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.
60. ROW SHALL BE RESEEDED AND RESTORED TO ORIGINAL CONDITION TO MEET PERMIT REQUIREMENTS.
61. TRAFFIC CONTROL DEVICES WILL BE IN ACCORDANCE WITH NMTCD SPECS.
62. EXISTING TRAFFIC CONTROL SHALL BE KEPT INTACT AND BE REINSTALLED TO MATCH OR EXCEED CONDITION PRIOR TO CONSTRUCTION COMMENCEMENT. REPLACEMENT OF DAMAGED TRAFFIC CONTROL SHALL BE DONE AT CONTRACTOR'S EXPENSE.

Table with columns: Rev#, Date, Description, By, Ckcd

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LOS ALAMOS COUNTY, NM LOS ALAMOS COUNTY NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT GENERAL NOTES



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Table with columns: Designed (AC), Drawn (JAD), Checked (MEH), Date (June 2024), Scale (Horiz:), Vert:, Project No. (6231036), Sheet (G-2)

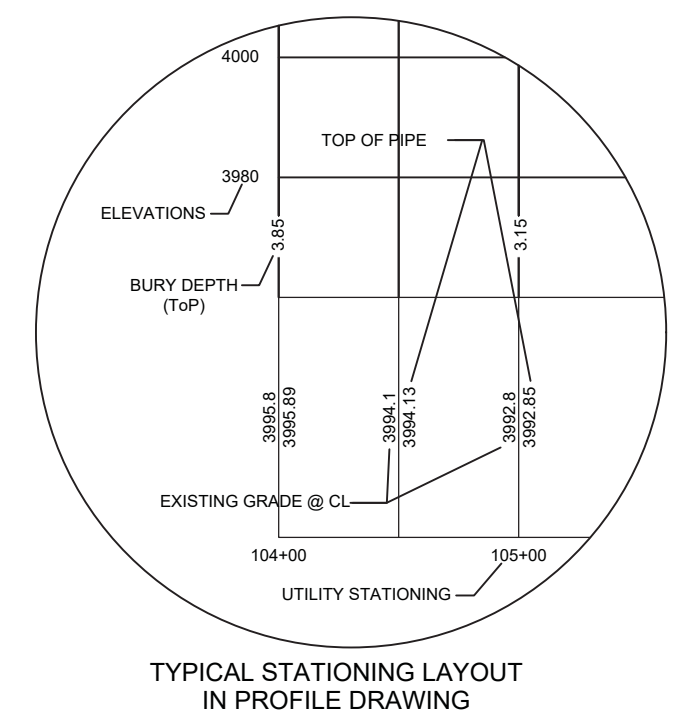
New Mexico One Call, Inc. Call Two Working Days Before You Dig! It's Free and It's the Law! To Request a Line Locate Dial 811. New Mexico state law requires everyone involved in any excavation to provide at least two working days' notice to owners of underground facilities when a dig is planned.

ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND REPORT ANY CONFLICTS TO THE ENGINEER. NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

EXISTING LINETYPES	PROPOSED LINETYPES
	CENTERLINE
	PROPERTY SECTIONS / ROW LINES
	PAVED ROAD
	CURB
	DIRT ROAD
	MINOR CONTOURS
	MAJOR CONTOURS
	FENCE
	FENCE CHAINLINK
	WALL
	ELECTRIC
	GAS
	TELECOM
	WATER
	ABANDONED WATER
	WATER 16"
	WATER 12"
	FIBER OPTIC
	OVERHEAD ELECTRIC
	OVERHEAD FIBER OPTIC
	FIBER OPTIC
	STORM STRUCTURE
	OVERHEAD FIBER OPTIC TELEPHONE
	WATERLINE EASEMENT

UTILITY CONTACTS

JAMES MARTINEZ LAC PROJECT MANAGER: 1.505.663.1907
 DAVID GOMEZ Iac WATER PRODUCTION SUPERINTENDENT: 1.505.662.8157
 LOS ALAMOS UTILITY DEPARTMENT: 1.505.622.8333
 NM GAS COMPANY: 1.888.664.2726
 COMCAST: 1.800.934.6489
 QUEST / CENTURY LINK: 1.800.283.4237



Rev#	Date	Description

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LOS ALAMOS COUNTY

LOS ALAMOS COUNTY, NM

NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT LEGEND AND SHEET SET



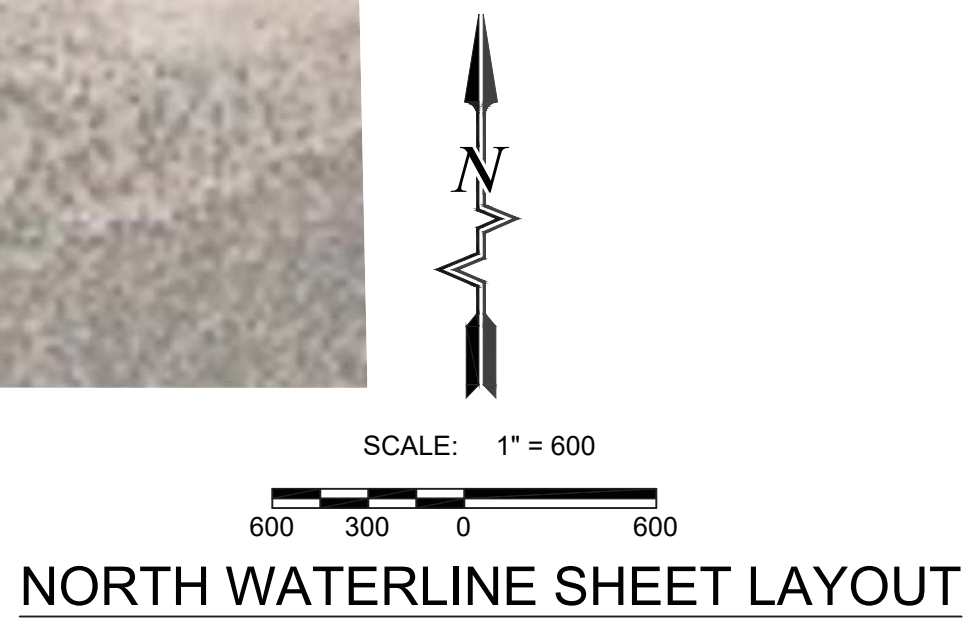
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED		
Designed AC	Drawn JAD	Checked MEH
Date: June 2024		
Scale: Horiz: Vert:		
Project No: 6231036		
Sheet: G-3		

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NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

EXISTING SYMBOLS		PROPOSED SYMBOLS	
POINT	POINT NAME		
	BOLLARD		GATE VALVE
	ELECTRIC BOX		FIRE HYDRANT
	ELECTRIC MANHOLE		VAC OR ARV
	ELECTRIC METER		PRV VALVE
	ELECTRIC PEDESTAL		PIPE CASING
	ELECTRIC PULL BOX		MATCH LINE
	ELECTRIC TRANSFORMER		
	ELECTRIC VAULT		
	FIBER AND CTV MARKER		
	FIBER OPTIC PULLBOX		
	FIBER OPTIC VAULT		
	HYDRANT		
	FLARED END SECTION		
	GAS MARKER		
	GAS METER		
	GAS VALVE		
	GUY ANCHOR		
	LIGHTPOLE		
	MAIL BOX		
	MILE MARKER		
	POST WOOD		
	POWER POLE		
	SIGN DOUBLE POLE		
	SANITARY MARKER		
	SANITARY SEWER MANHOLE		
	PRESSURE RELEASE VALVE		
	SIGN STOP		
	STREET LIGHT PULL BOX		
	TELEPHONE PEDESTAL		
	TELEPHONE POLE		
	TEST HOLE		
	TRAFFIC LIGHT		
	TRAFFIC MAST		
	TRAFFIC PEDESTAL POST		
	TRAFFIC SIGNAL PULL BOX		
	TREE CONIFER		
	TREE DECIDUOUS		
	TREE GENERIC		
	WATER MANHOLE		
	WATER METER		
	WATER VALVE		
	CULVERT		
	PAVEMENT		
	RIP RAP		
	CONCRETE		

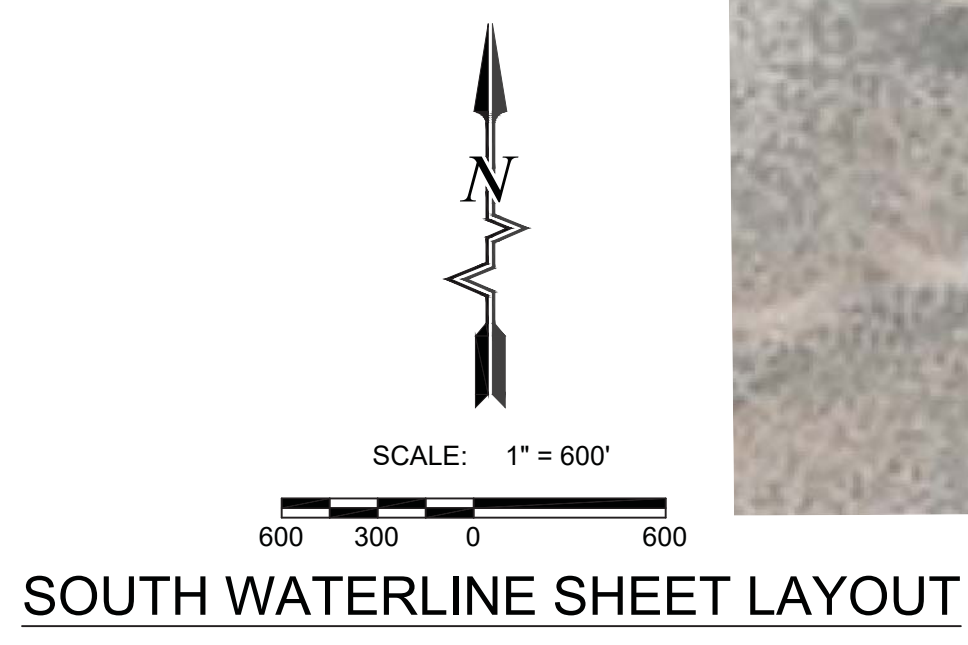
New Mexico One Call, Inc.
1-800-552-1222
 Call Two Working Days Before You Dig!
 It's Free and It's The Law!
 Public Notice to Energy Provider



NORTH WATERLINE SHEET LAYOUT

PROJECT SECTIONS

- SHEET C-1 THRU C-4 SEGMENT 2
- SHEET C-5 THRU C-6 SEGMENT 3
- SHEET C-7 THRU C-23 SEGMENT 1



SOUTH WATERLINE SHEET LAYOUT



To Request a Line Locate Dial 811
 New Mexico state law requires everyone involved in any excavation to provide at least two working days' notice to owners of underground facilities when a dig is planned. All facility owners are then required to mark the locations of any underground lines or take other appropriate measures to protect them.

Rev#	Date	Description	By

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LOS ALAMOS COUNTY
 LOS ALAMOS COUNTY, NM
 NM STATE 4 - 16" TRANSMISSION LINE
 REPLACEMENT
 SHEET LAYOUT



THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
AC	JAD	MEH

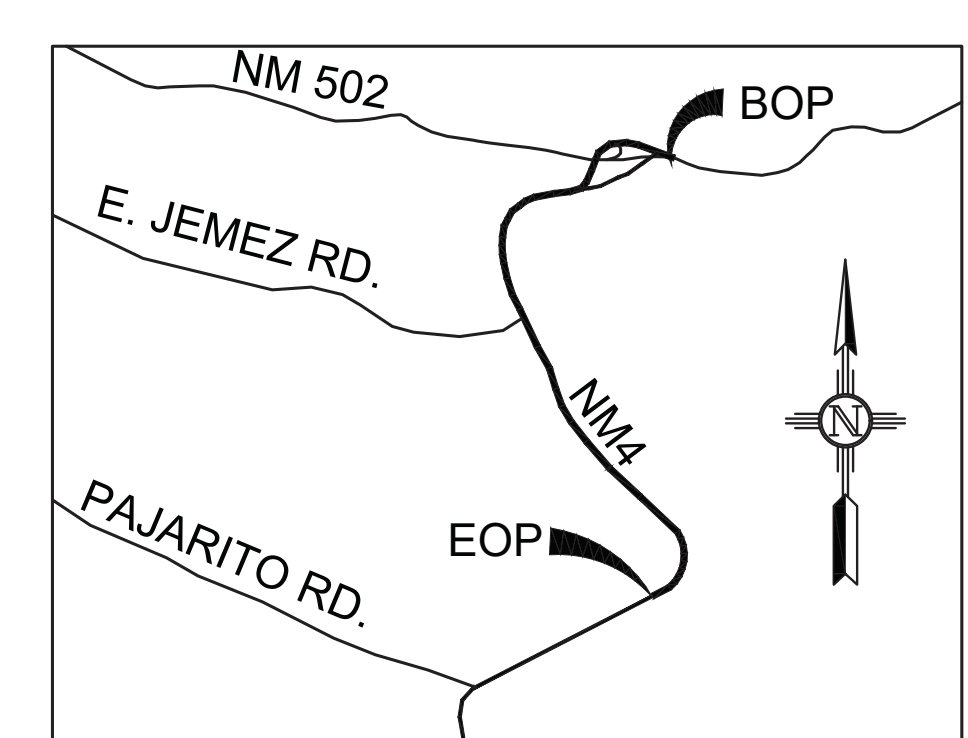
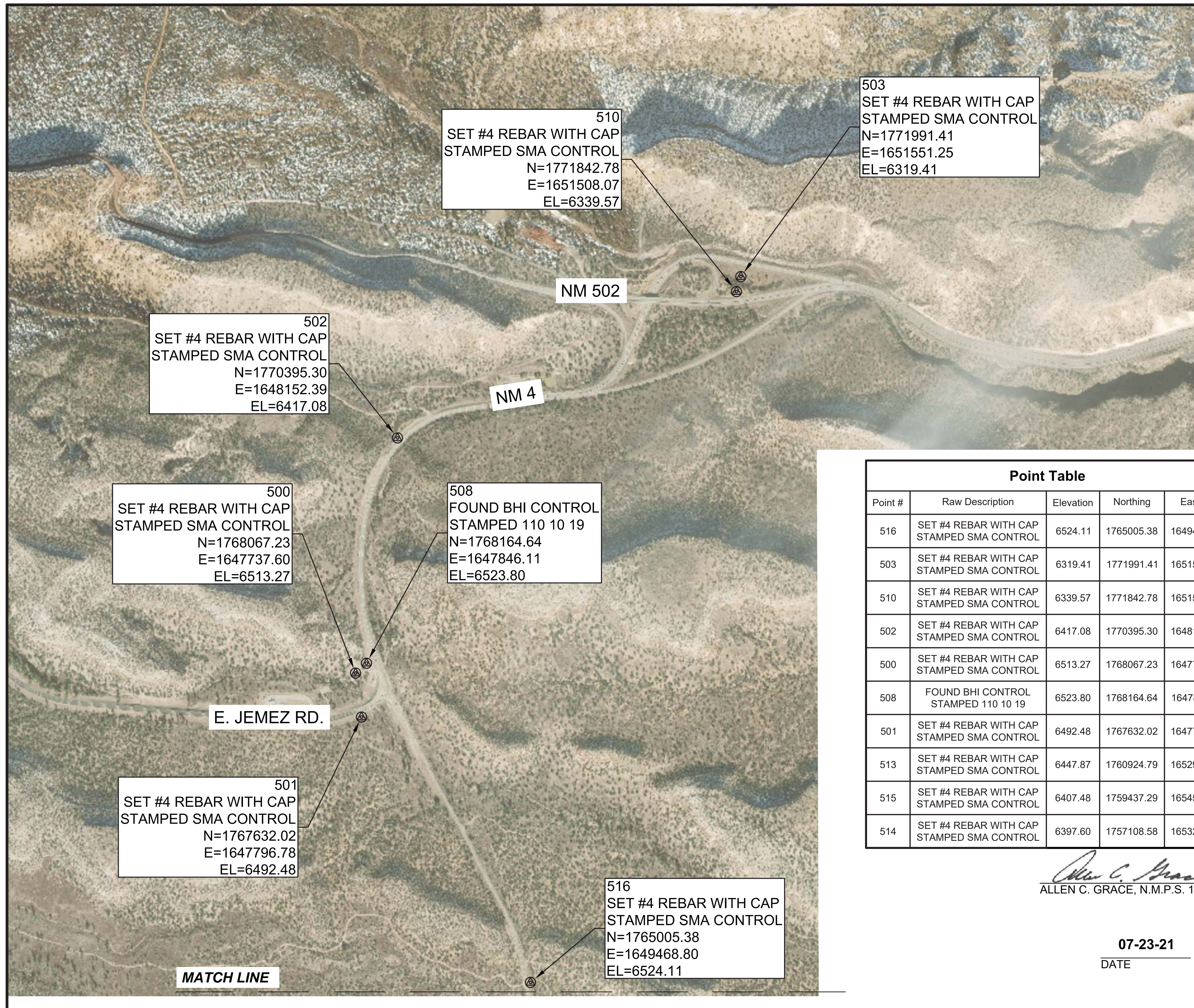
Date: June 2024
 Scale: Horiz:
 Vert:

Project No: 6231036

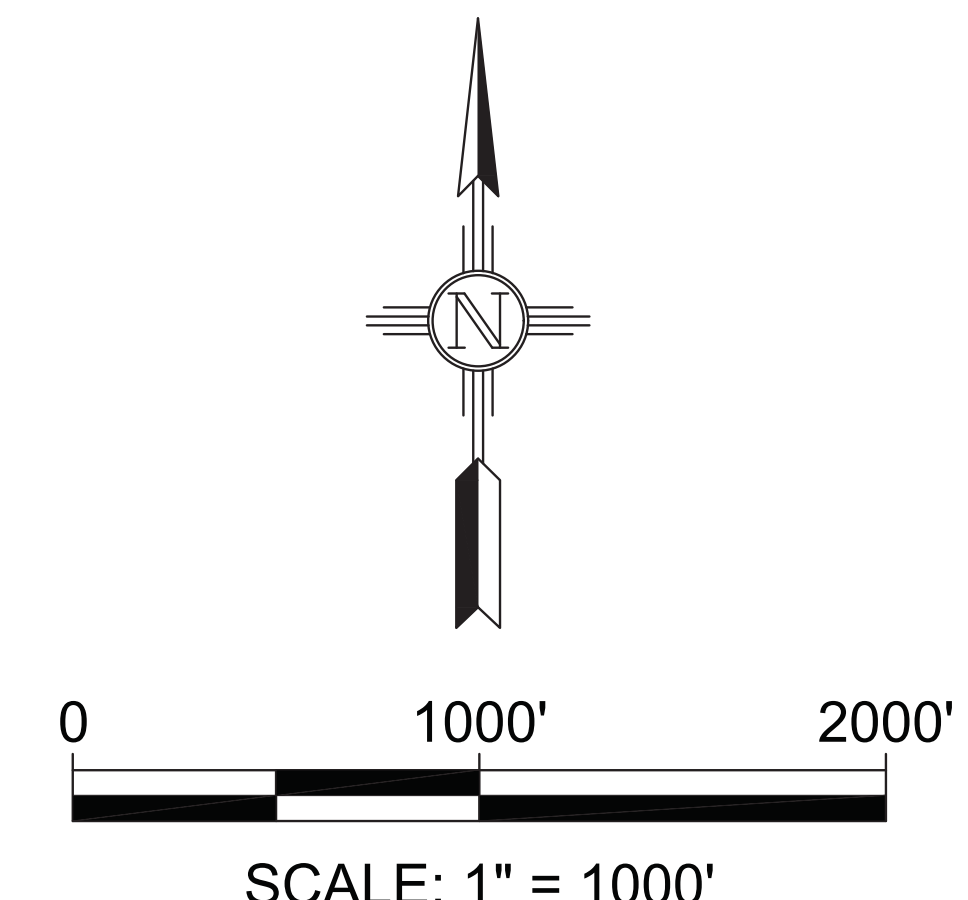
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VICINITY MAP
NOT TO SCALE

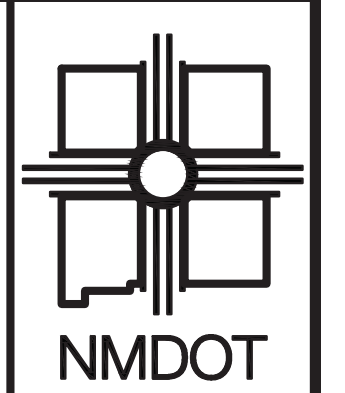


SCALE: 1" = 1000'

Point Table				
Point #	Raw Description	Elevation	Northing	Easting
516	SET #4 REBAR WITH CAP STAMPED SMA CONTROL	6524.11	1765005.38	1649468.80
503	SET #4 REBAR WITH CAP STAMPED SMA CONTROL	6319.41	1771991.41	1651551.25
510	SET #4 REBAR WITH CAP STAMPED SMA CONTROL	6339.57	1771842.78	1651508.07
502	SET #4 REBAR WITH CAP STAMPED SMA CONTROL	6417.08	1770395.30	1648152.39
500	SET #4 REBAR WITH CAP STAMPED SMA CONTROL	6513.27	1768067.23	1647737.60
508	FOUND BHI CONTROL STAMPED 110 10 19	6523.80	1768164.64	1647846.11
501	SET #4 REBAR WITH CAP STAMPED SMA CONTROL	6492.48	1767632.02	1647796.78
513	SET #4 REBAR WITH CAP STAMPED SMA CONTROL	6447.87	1760924.79	1652991.97
515	SET #4 REBAR WITH CAP STAMPED SMA CONTROL	6407.48	1759437.29	1654584.16
514	SET #4 REBAR WITH CAP STAMPED SMA CONTROL	6397.60	1757108.58	1653245.13

Allen C. Grace
ALLEN C. GRACE, N.M.P.S. 12443

07-23-21
DATE

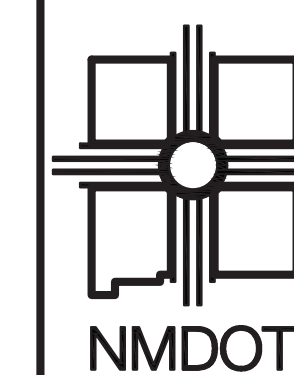


NEW MEXICO DEPARTMENT
OF TRANSPORTATION

NO.	DESCRIPTION	DATE	BY
4			
3			
2			
1			

NM 4 HIGHWAY
CONTROL SHEET

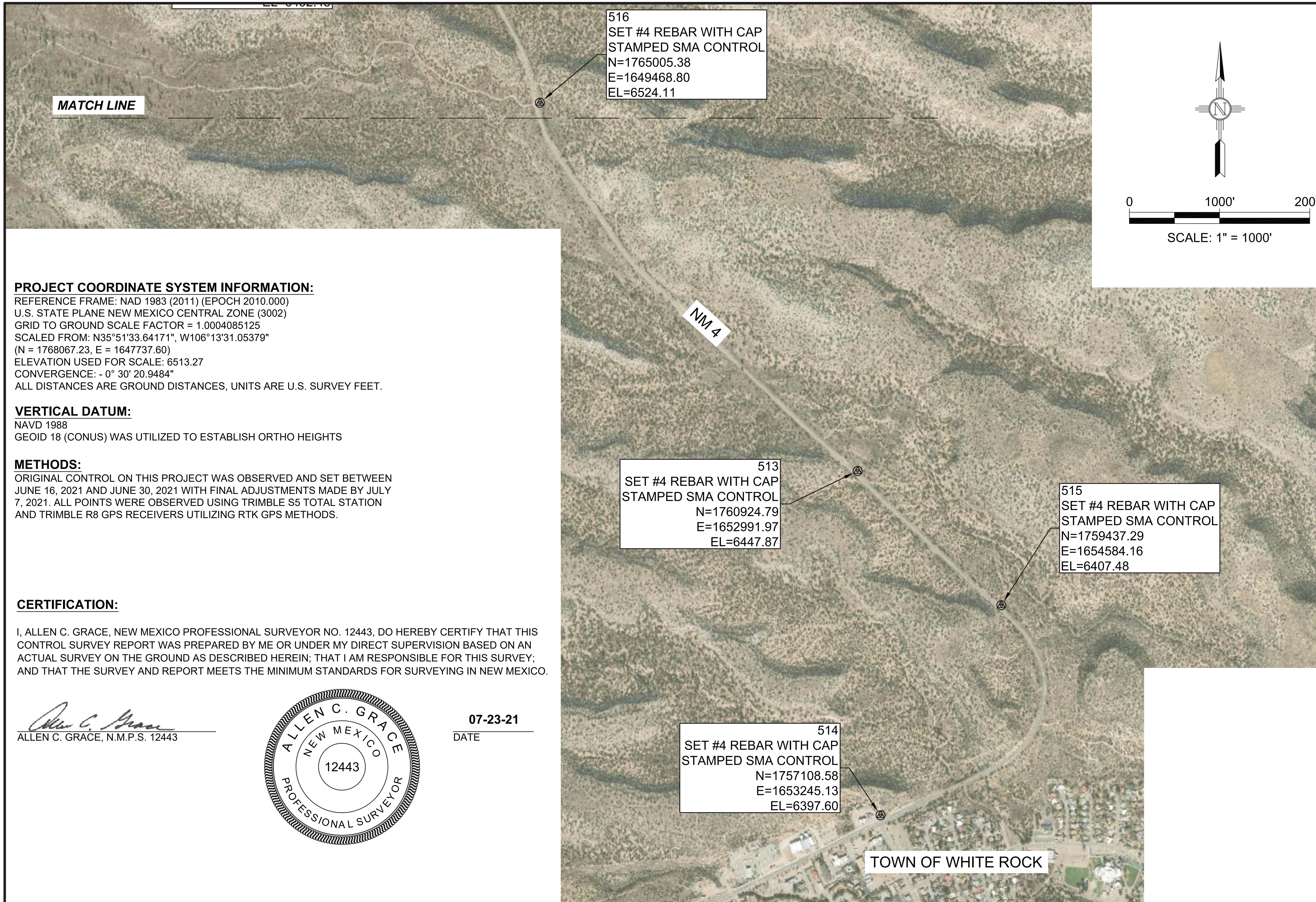
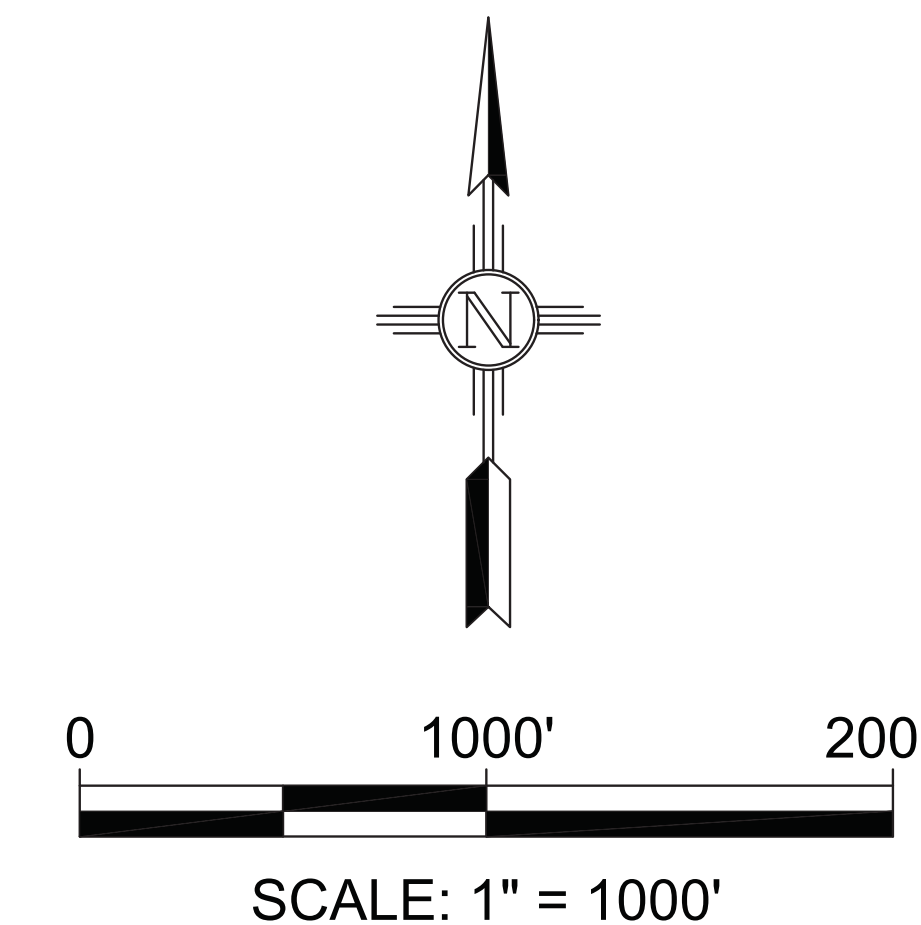




NEW MEXICO DEPARTMENT
OF TRANSPORTATION

NO.	DESCRIPTION	DATE	BY
4			
3			
2			
1			

NM 4 HIGHWAY
CONTROL SHEET



516
SET #4 REBAR WITH CAP
STAMPED SMA CONTROL
N=1765005.38
E=1649468.80
EL=6524.11

513
SET #4 REBAR WITH CAP
STAMPED SMA CONTROL
N=1760924.79
E=1652991.97
EL=6447.87

515
SET #4 REBAR WITH CAP
STAMPED SMA CONTROL
N=1759437.29
E=1654584.16
EL=6407.48

514
SET #4 REBAR WITH CAP
STAMPED SMA CONTROL
N=1757108.58
E=1653245.13
EL=6397.60

PROJECT COORDINATE SYSTEM INFORMATION:

REFERENCE FRAME: NAD 1983 (2011) (EPOCH 2010.000)
U.S. STATE PLANE NEW MEXICO CENTRAL ZONE (3002)
GRID TO GROUND SCALE FACTOR = 1.0004085125
SCALED FROM: N35°51'33.64171", W106°13'31.05379"
(N = 1768067.23, E = 1647737.60)
ELEVATION USED FOR SCALE: 6513.27
CONVERGENCE: - 0° 30' 20.9484"
ALL DISTANCES ARE GROUND DISTANCES, UNITS ARE U.S. SURVEY FEET.

VERTICAL DATUM:

NAVD 1988
GEOID 18 (CONUS) WAS UTILIZED TO ESTABLISH ORTHO HEIGHTS

METHODS:

ORIGINAL CONTROL ON THIS PROJECT WAS OBSERVED AND SET BETWEEN JUNE 16, 2021 AND JUNE 30, 2021 WITH FINAL ADJUSTMENTS MADE BY JULY 7, 2021. ALL POINTS WERE OBSERVED USING TRIMBLE S5 TOTAL STATION AND TRIMBLE R8 GPS RECEIVERS UTILIZING RTK GPS METHODS.

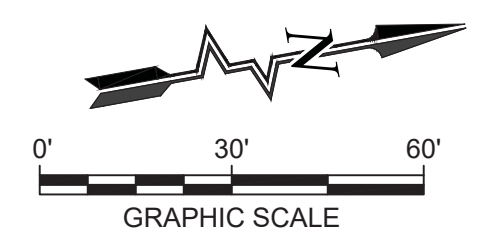
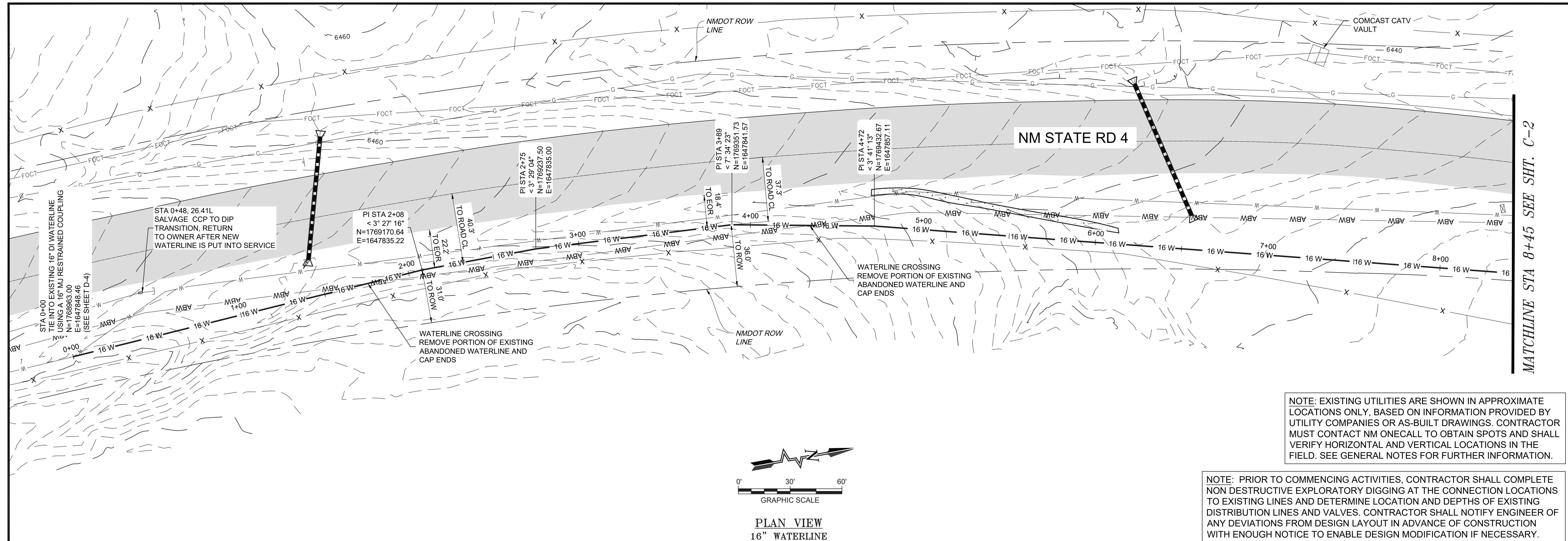
CERTIFICATION:

I, ALLEN C. GRACE, NEW MEXICO PROFESSIONAL SURVEYOR NO. 12443, DO HEREBY CERTIFY THAT THIS CONTROL SURVEY REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION BASED ON AN ACTUAL SURVEY ON THE GROUND AS DESCRIBED HEREIN; THAT I AM RESPONSIBLE FOR THIS SURVEY; AND THAT THE SURVEY AND REPORT MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

Allen C. Grace
ALLEN C. GRACE, N.M.P.S. 12443



07-23-21
DATE

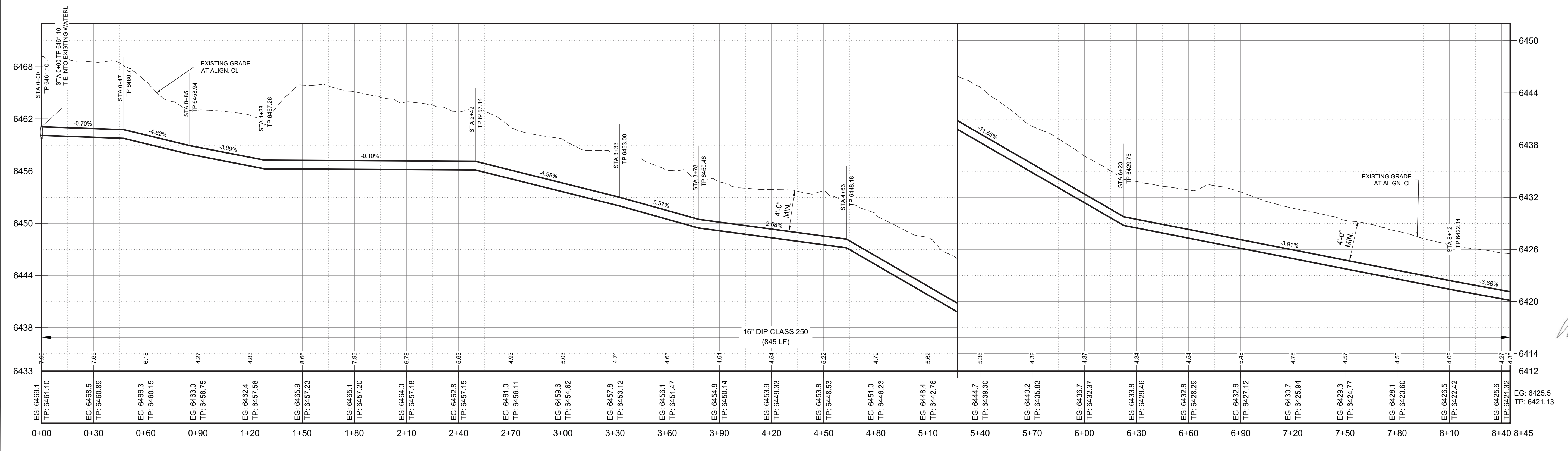


PLAN VIEW
16" WATERLINE

NOTE: EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY, BASED ON INFORMATION PROVIDED BY UTILITY COMPANIES OR AS-BUILT DRAWINGS. CONTRACTOR MUST CONTACT NM ONECALL TO OBTAIN SPOTS AND SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS IN THE FIELD. SEE GENERAL NOTES FOR FURTHER INFORMATION.

NOTE: PRIOR TO COMMENCING ACTIVITIES, CONTRACTOR SHALL COMPLETE NON DESTRUCTIVE EXPLORATORY DIGGING AT THE CONNECTION LOCATIONS TO EXISTING LINES AND DETERMINE LOCATION AND DEPTHS OF EXISTING DISTRIBUTION LINES AND VALVES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DEVIATIONS FROM DESIGN LAYOUT IN ADVANCE OF CONSTRUCTION WITH ENOUGH NOTICE TO ENABLE DESIGN MODIFICATION IF NECESSARY.

MATCHLINE STA 8+45 SEE SHIT. C-2



PROFILE VIEW
16" WATERLINE
SCALE: HORIZ. 1" = 30'
VERT. 1" = 6'

NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

By: CJKD

Description:

Rev# Date:

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LOS ALAMOS COUNTY

LOS ALAMOS COUNTY, NM

NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 NORTH WATERLINE PLAN & PROFILE
STA: 0+00 TO STA: 8+45

MARTIN HOWELL
NEW MEXICO
22670
PROFESSIONAL ENGINEER

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EG: 6425.5
TP: 6421.13

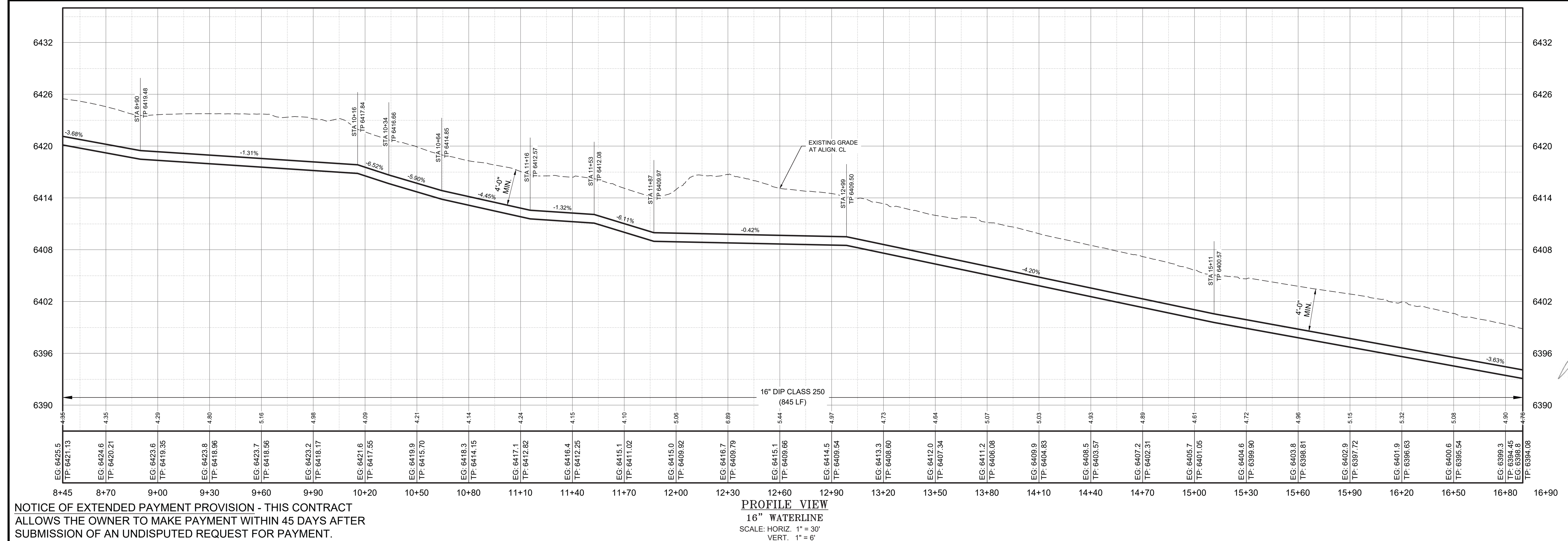
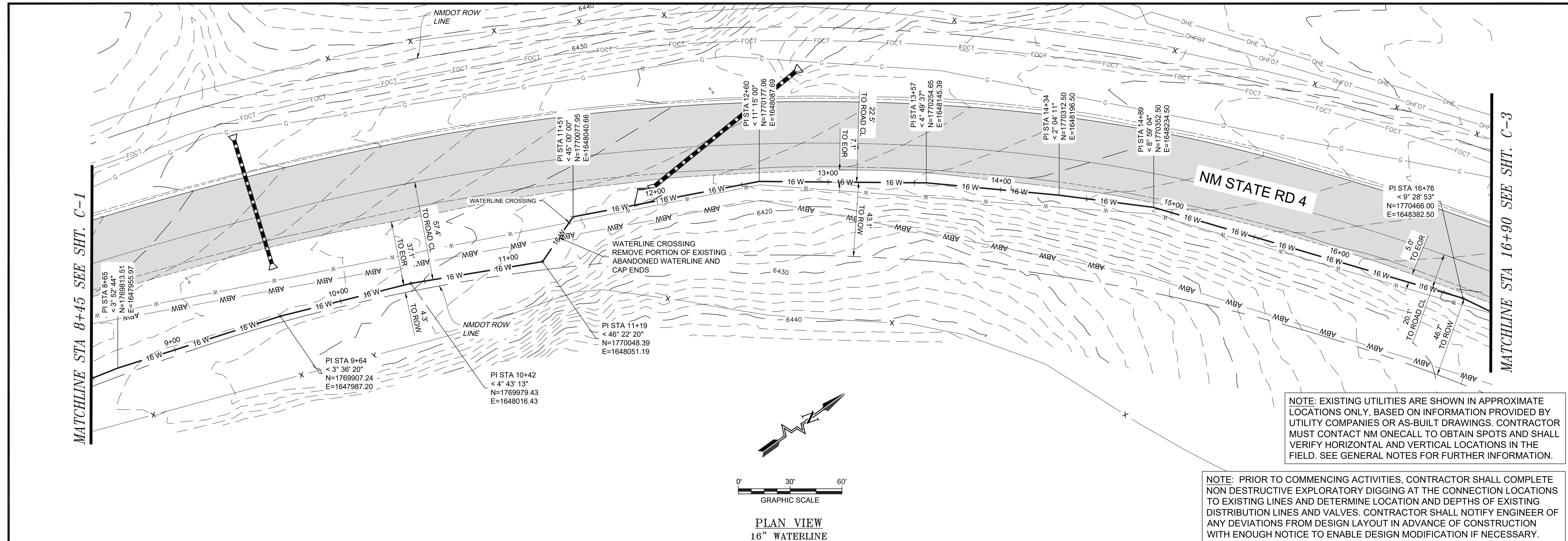
Designed	Drawn	Checked
AC	JAD	MEH

Date: June 2024

Scale: Horiz. _____
Vert. _____

Project No: 6231036

Sheet: C-1



NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

By: []
Description: []
Rev# Date: []

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LOS ALAMOS COUNTY, NM

NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 NORTH WATERLINE PLAN & PROFILE
STA: 8+45 TO STA: 16+90

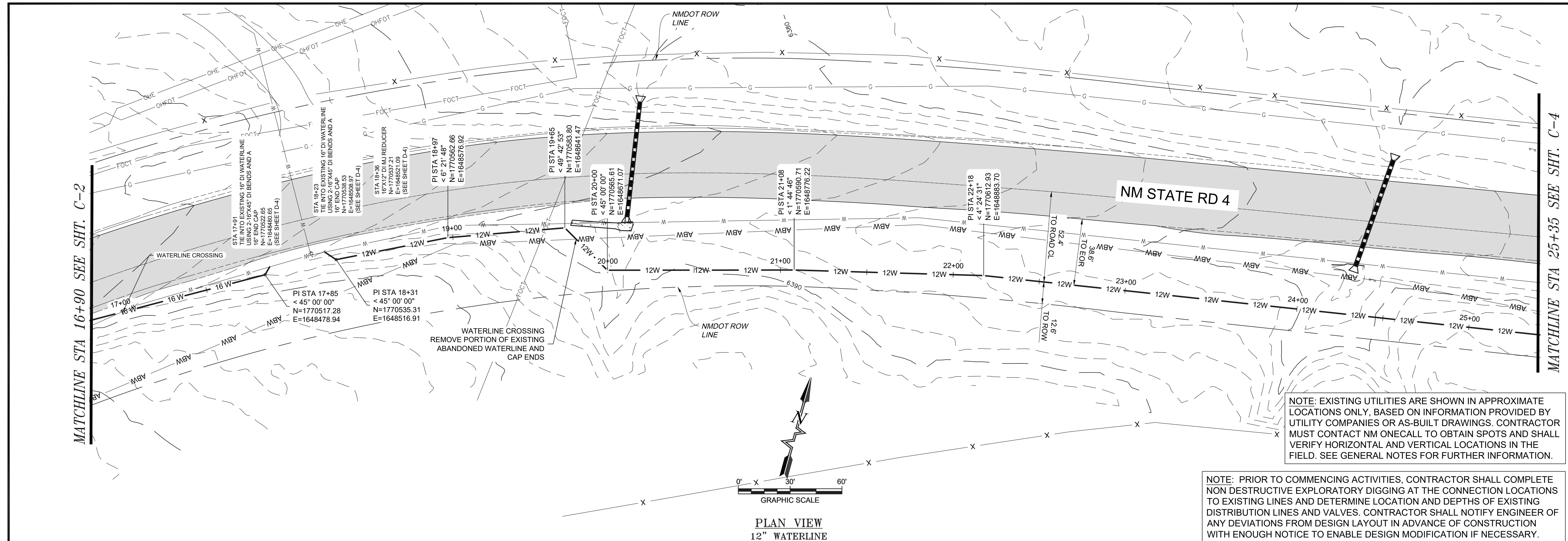
LOS ALAMOS COUNTY

MARTIN HOWELL
NEW MEXICO
22670
PROFESSIONAL ENGINEER

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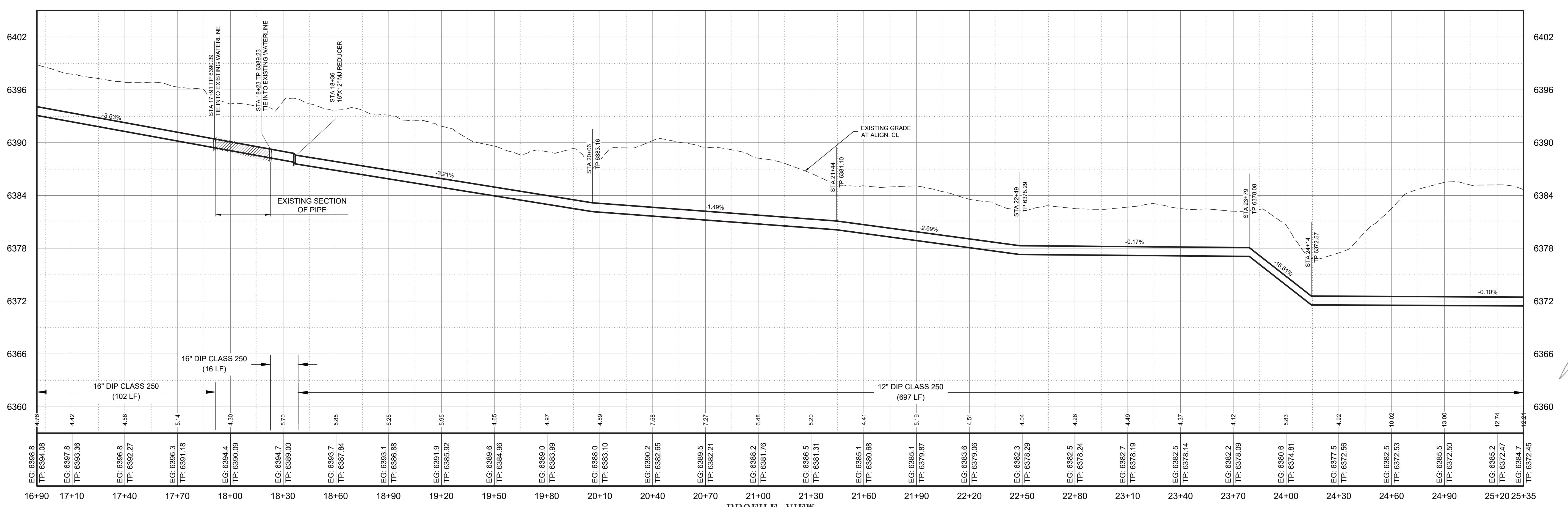
Designed: AC
Drawn: JAD
Checked: MEH

Date: June 2024
Scale: Horiz: []
Vert: []
Project No: 6231036
Sheet: C-2



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NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

PROFILE VIEW
12" WATERLINE
SCALE: HORIZ. 1" = 30'
VERT. 1" = 6'

By: CJKD

Rev# Date Description

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LOS ALAMOS COUNTY

NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 NORTH WATERLINE PLAN & PROFILE
STA: 16+90 TO STA: 25+35

LOS ALAMOS COUNTY, NM

MARTIN HOWELL
NEW MEXICO
22570
PROFESSIONAL ENGINEER

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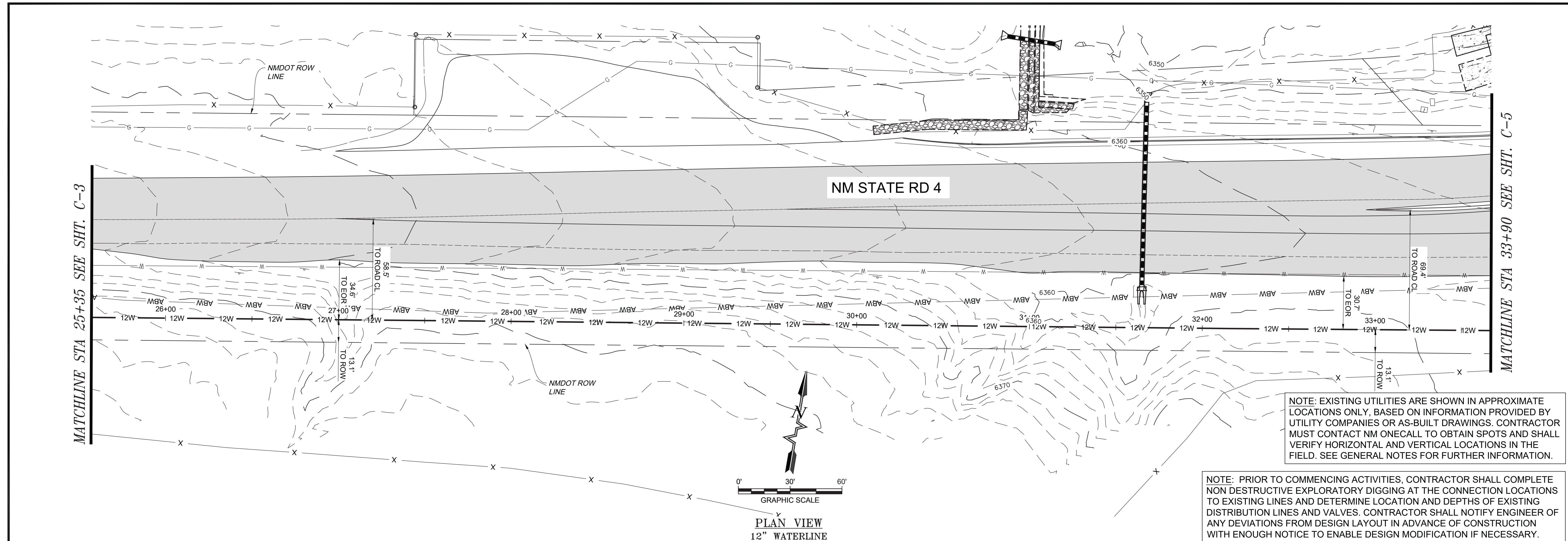
Designed	Drawn	Checked
AC	JAD	MEH

Date: June 2024

Scale: Horiz: Vert:

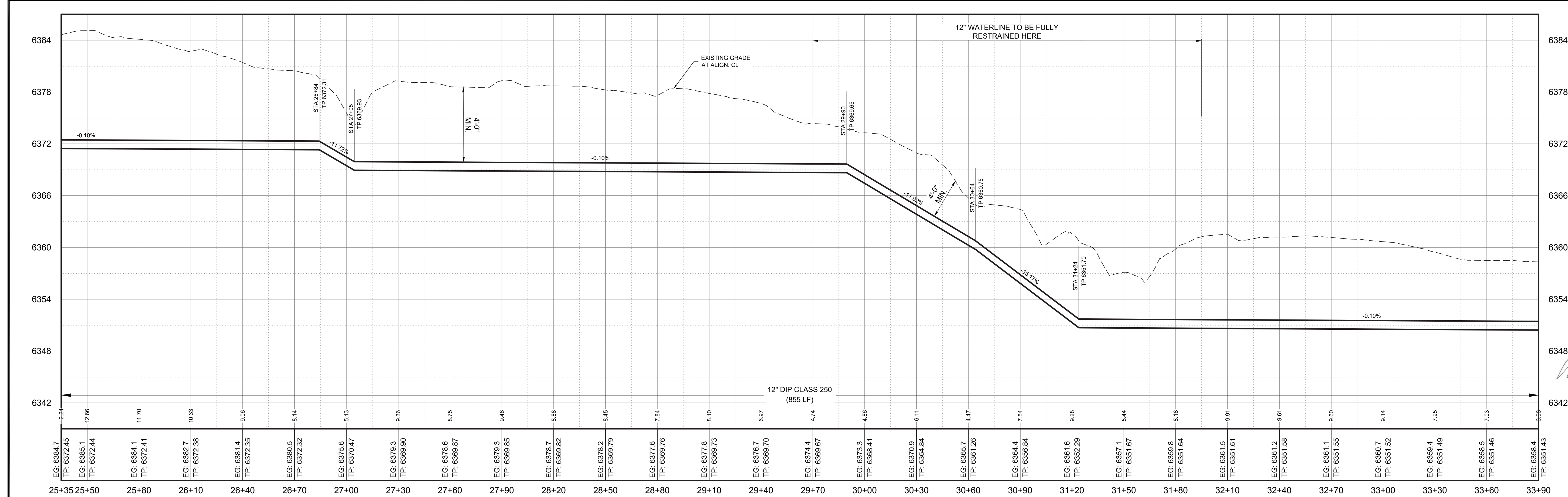
Project No: 6231036

Sheet: **C-3**



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PROFILE VIEW
12" WATERLINE
SCALE: HORIZ. 1" = 30'
VERT. 1" = 6'

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By	CHKD
Description	
Rev#	Date

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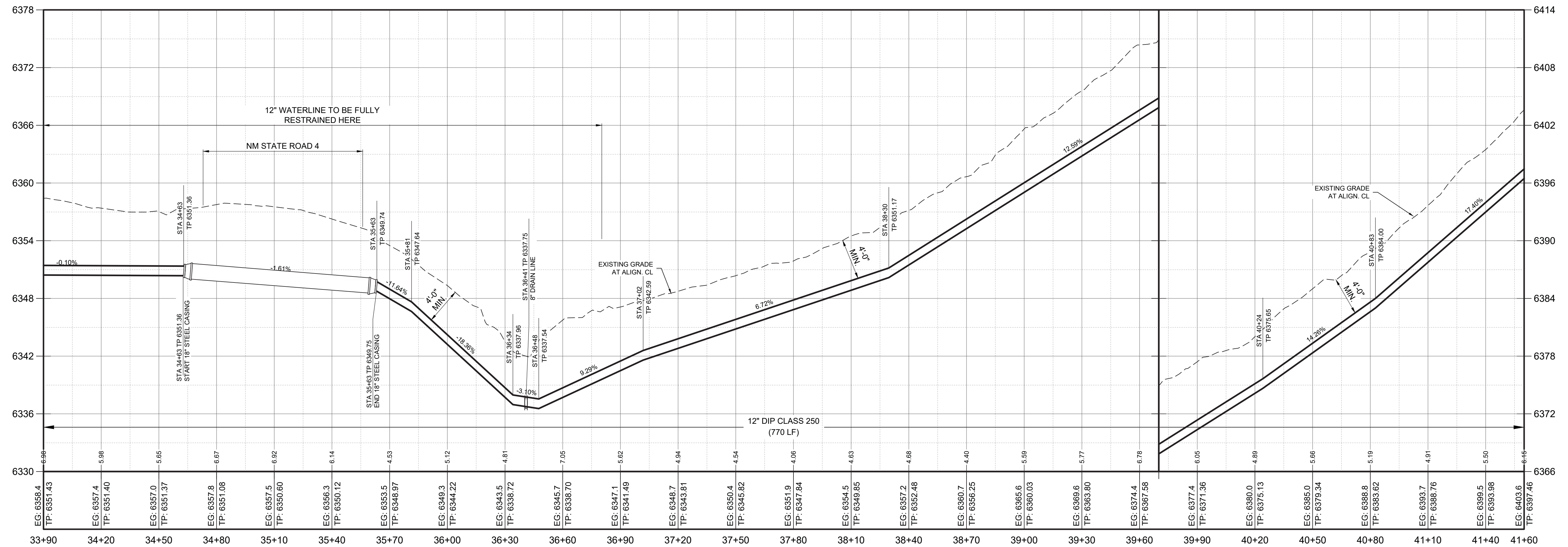
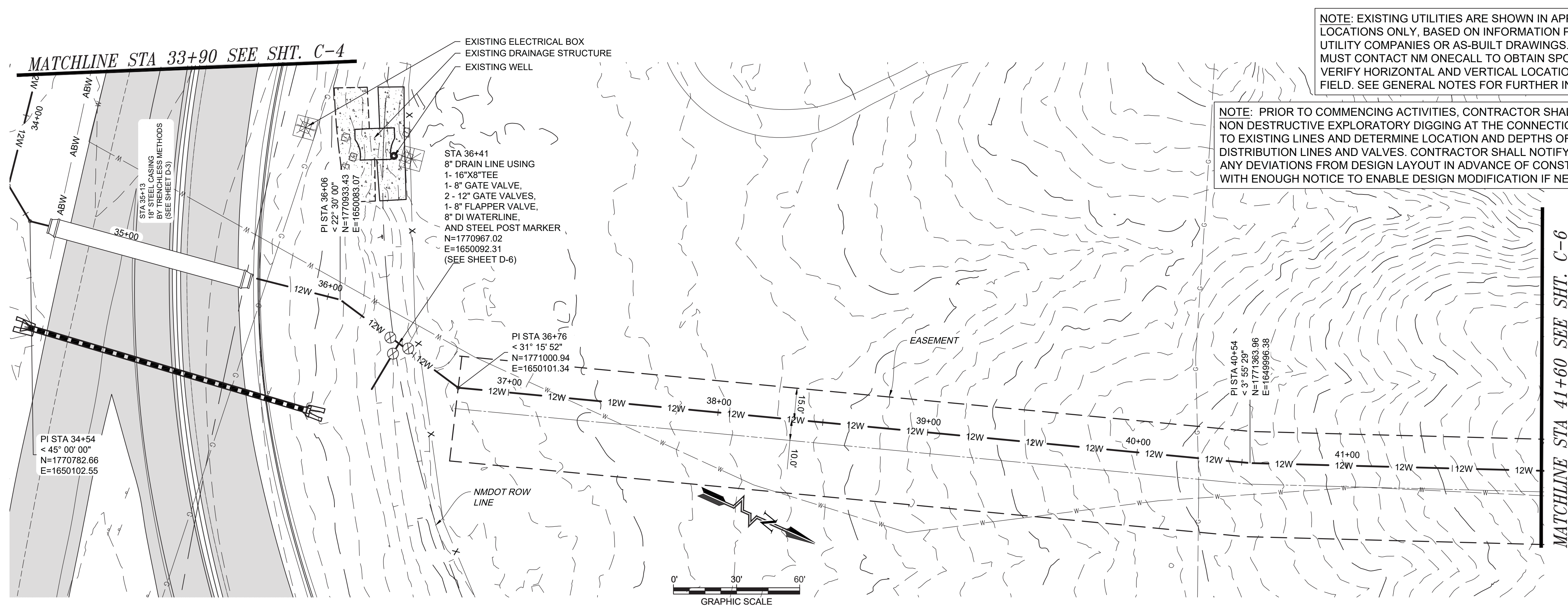
LOS ALAMOS COUNTY
NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 NORTH WATERLINE PLAN & PROFILE
STA: 25+35 TO STA: 33+90

MARTIN HOWELL
NEW MEXICO
22670
PROFESSIONAL ENGINEER

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Designed	Drawn	Checked
AC	JAD	MEH

Date: June 2024
Scale: Horiz: _____
Vert: _____
Project No: 6231036
Sheet: **C-4**



PROFILE VIEW
12" WATERLINE
SCALE: HORIZ. 1" = 30'
VERT. 1" = 6'

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Revised Date: _____
 Description: _____
 By: _____
 Checked: _____

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LOS ALAMOS COUNTY, NM

NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
 NM 4 NORTH WATERLINE PLAN & PROFILE
 STA: 33+90 TO STA: 41+60

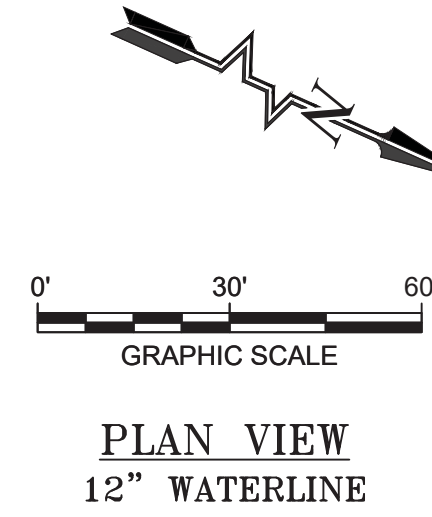
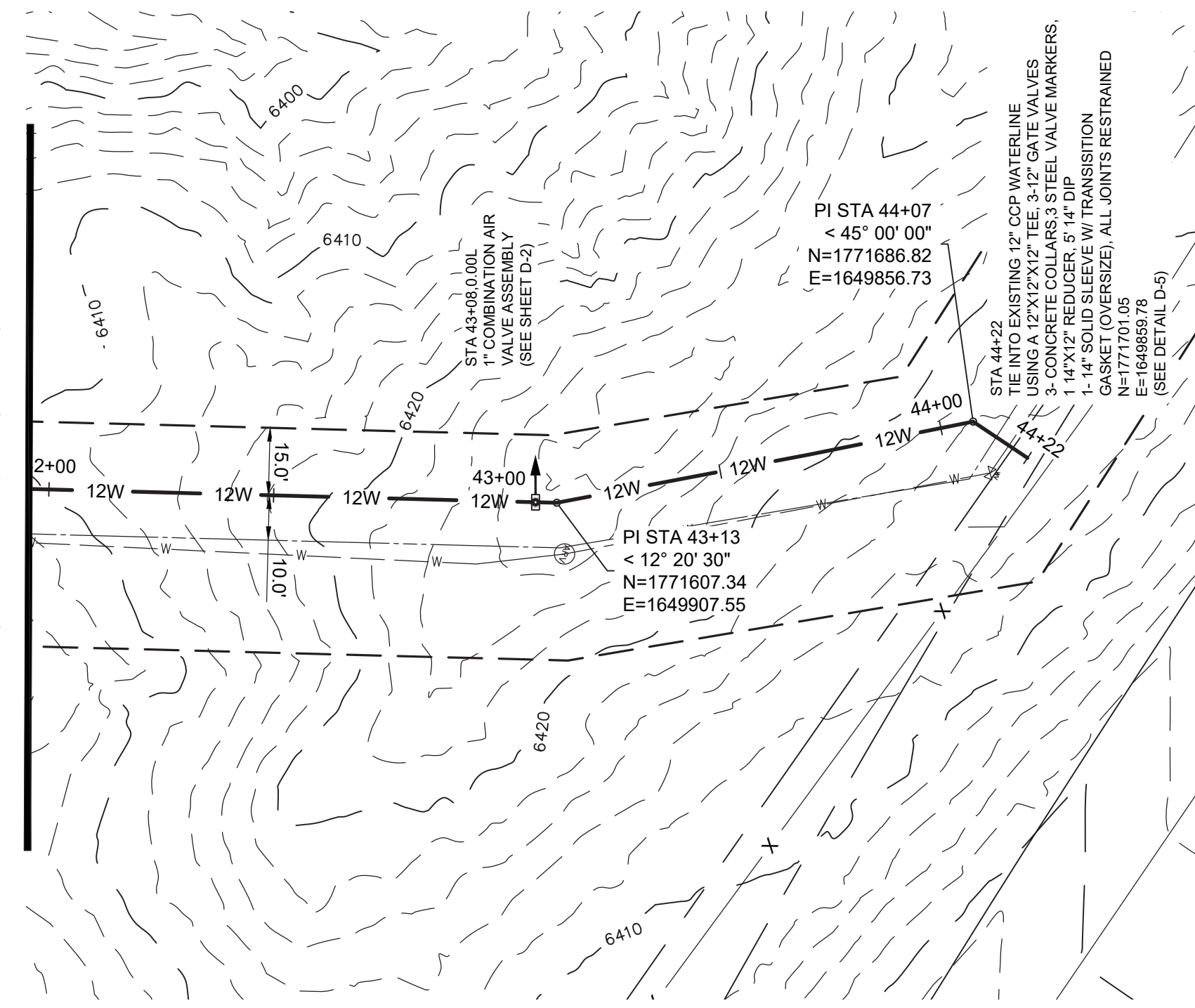
MARTIN HOWELL
 NEW MEXICO
 22670
 PROFESSIONAL ENGINEER

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Designed: AC	Drawn: JAD	Checked: MEH
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Date: June 2024
 Scale: Horiz: _____
 Vert: _____
 Project No: 6231036
 Sheet: C-5

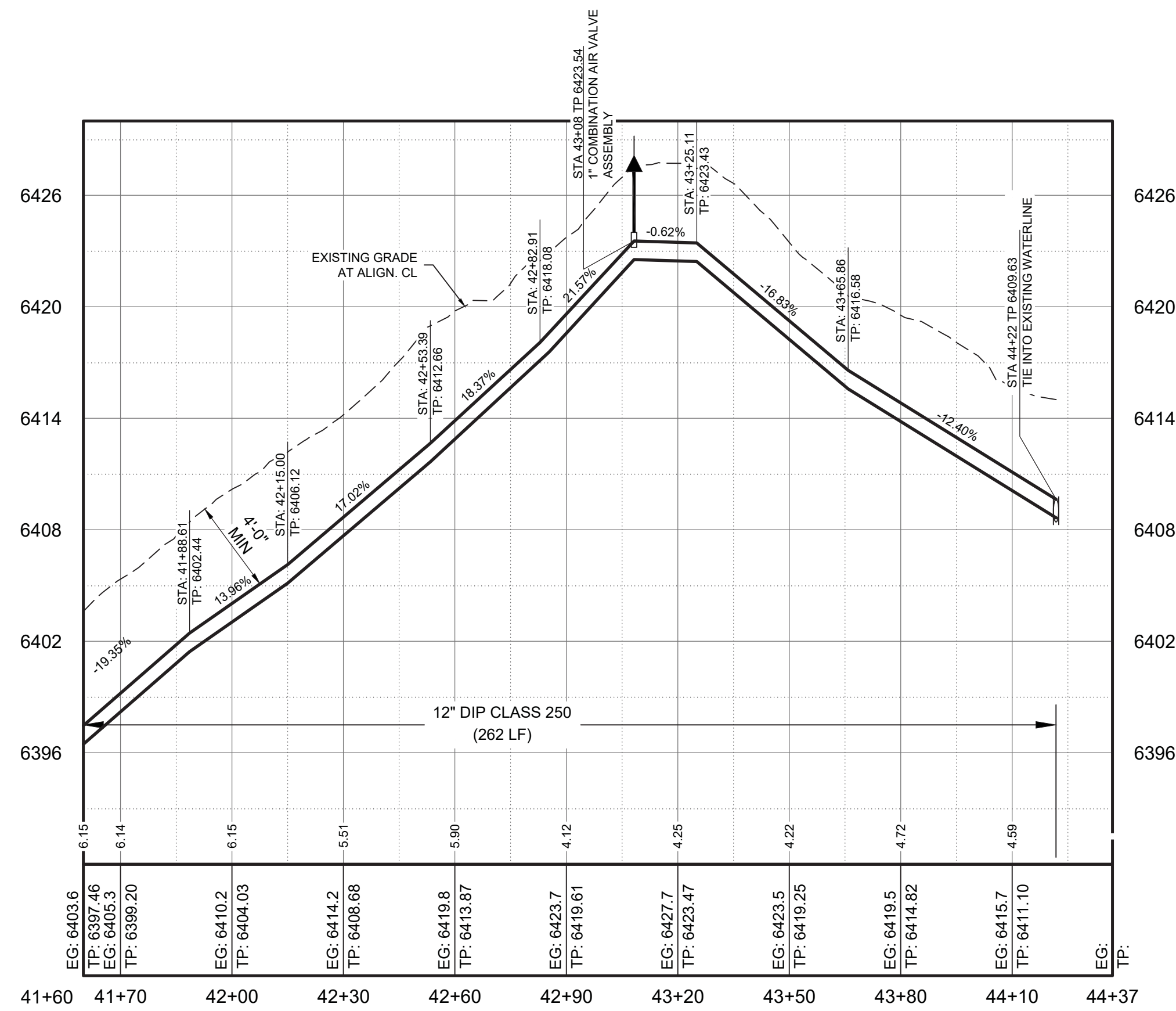
MATCHLINE STA 41+60 SEE SHT. C-5



NOTE: PRIOR TO COMMENCING ACTIVITIES, CONTRACTOR SHALL COMPLETE NON DESTRUCTIVE EXPLORATORY DIGGING AT THE CONNECTION LOCATIONS TO EXISTING LINES AND DETERMINE LOCATION AND DEPTHS OF EXISTING DISTRIBUTION LINES AND VALVES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DEVIATIONS FROM DESIGN LAYOUT IN ADVANCE OF CONSTRUCTION WITH ENOUGH NOTICE TO ENABLE DESIGN MODIFICATION IF NECESSARY.

Rev#	Date	Description	By	Chkd

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PROFILE VIEW
 12" WATERLINE
 SCALE: HORIZ. 1" = 30'
 VERT. 1" = 6'

NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

LOS ALAMOS COUNTY, NM
NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 NORTH WATERLINE PLAN & PROFILE
 STA: 41+60 TO STA: 44+22



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Designed	Drawn	Checked
AC	JAD	MEH

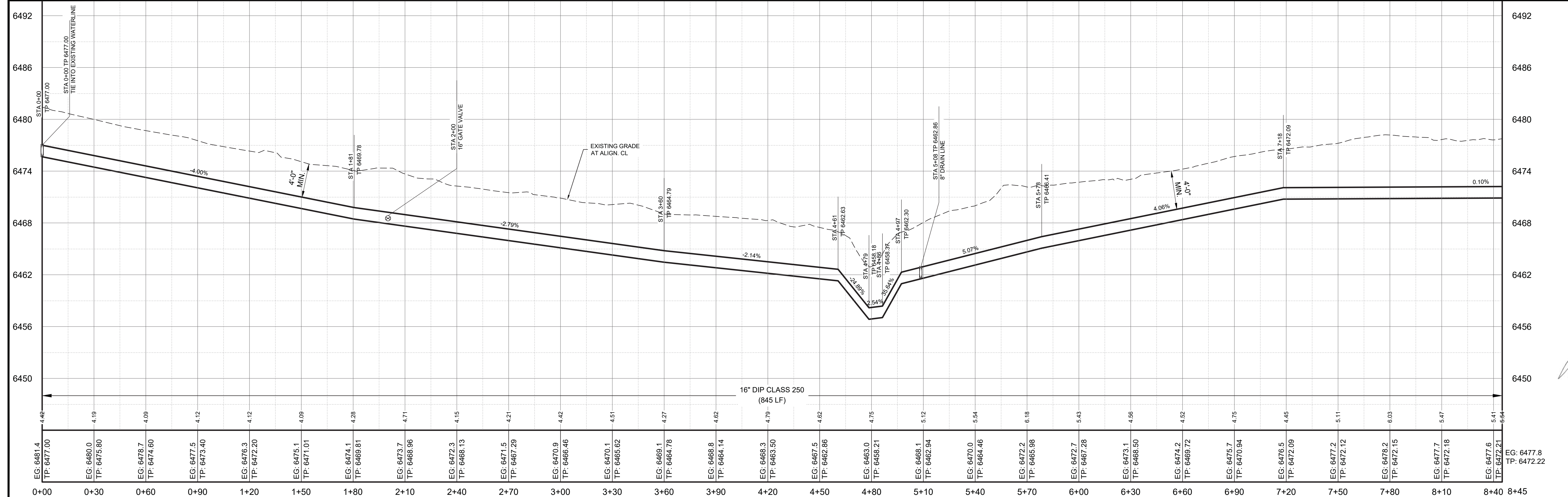
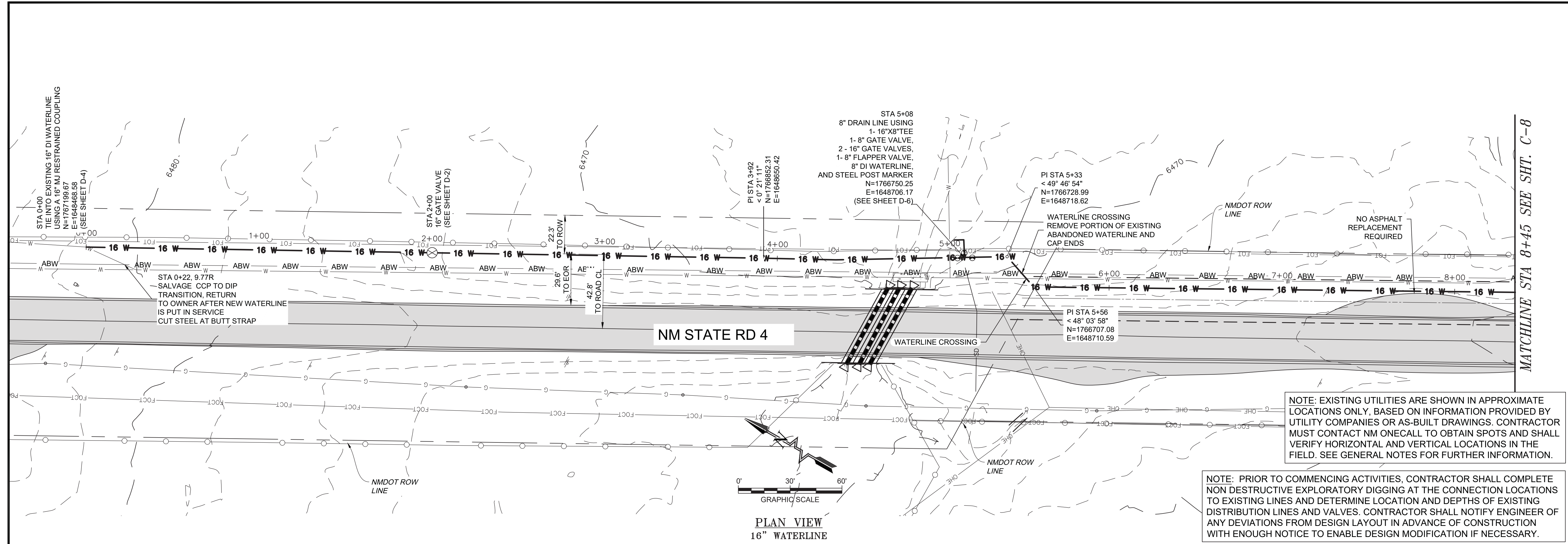
Date: June 2024

Scale: Horiz:
Vert:

Project No: 6231036

Sheet:

C-6



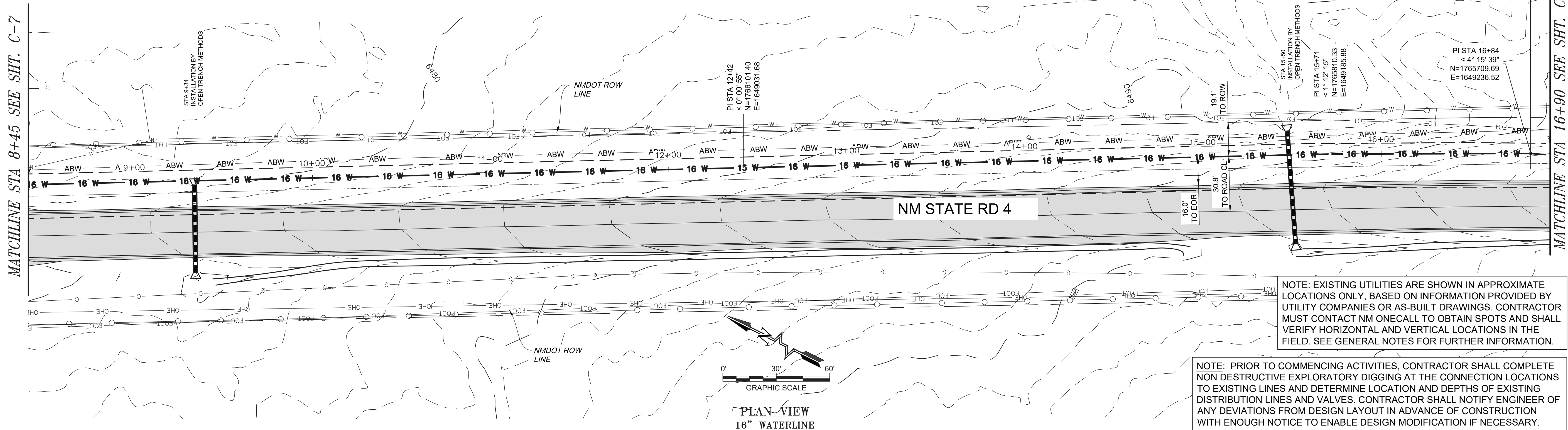
NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

By	CHKD
Rev#	Date
Description	

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LOS ALAMOS COUNTY
NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
 NM 4 SOUTH WATERLINE PLAN & PROFILE
 STA: 0+00 TO STA: 8+45

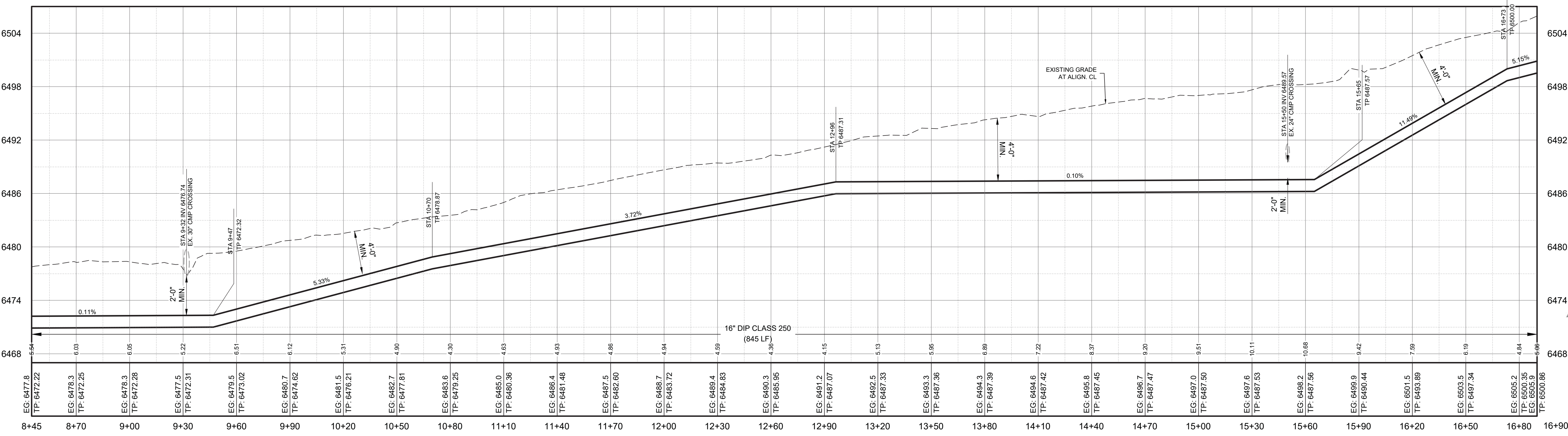
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 Designated: AC Drawn: JAD Checked: MEH
 Date: June 2024
 Scale: Horiz: Vert:
 Project No: 6231036
 Sheet: **C-7**



NOTE: EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY, BASED ON INFORMATION PROVIDED BY UTILITY COMPANIES OR AS-BUILT DRAWINGS. CONTRACTOR MUST CONTACT NM ONECALL TO OBTAIN SPOTS AND SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS IN THE FIELD. SEE GENERAL NOTES FOR FURTHER INFORMATION.

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PLAN VIEW
16" WATERLINE



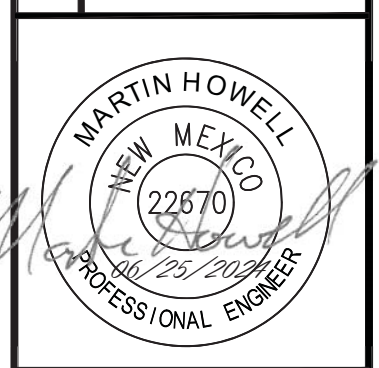
PROFILE VIEW
16" WATERLINE
SCALE: HORIZ. 1" = 30'
VERT. 1" = 6'

NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

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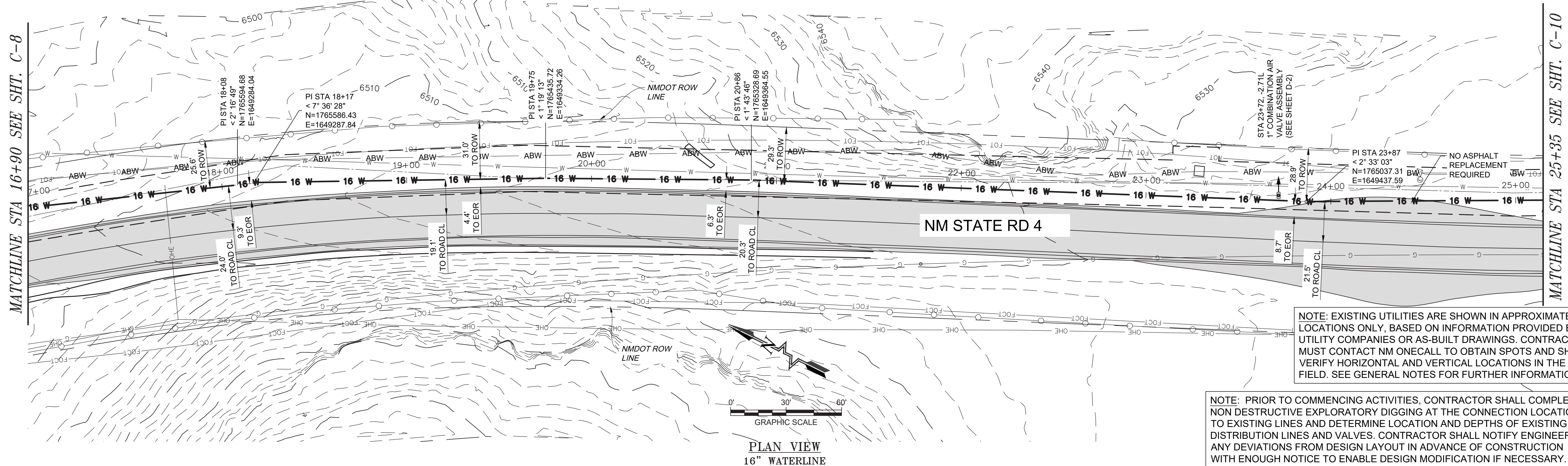
LOS ALAMOS COUNTY
LOS ALAMOS COUNTY, NM
NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 SOUTH WATERLINE PLAN & PROFILE
STA: 8+45 TO STA: 16+90



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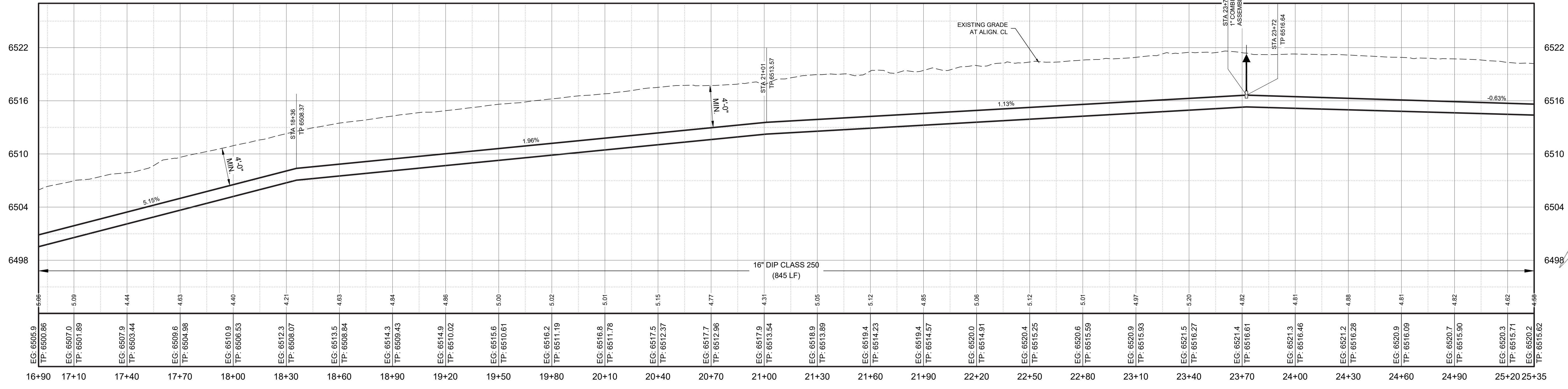
Designed	Drawn	Checked
AC	JAD	MEH

Date: June 2024
Scale: Horiz: Vert:
Project No: 6231036
Sheet: C-8



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NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

Rev#	Date	Description

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LOS ALAMOS COUNTY, NM

NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT

NM 4 SOUTH WATERLINE PLAN & PROFILE

STA: 16+90 TO STA: 25+35



THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
AC	JAD	MEH

Date: June 2024

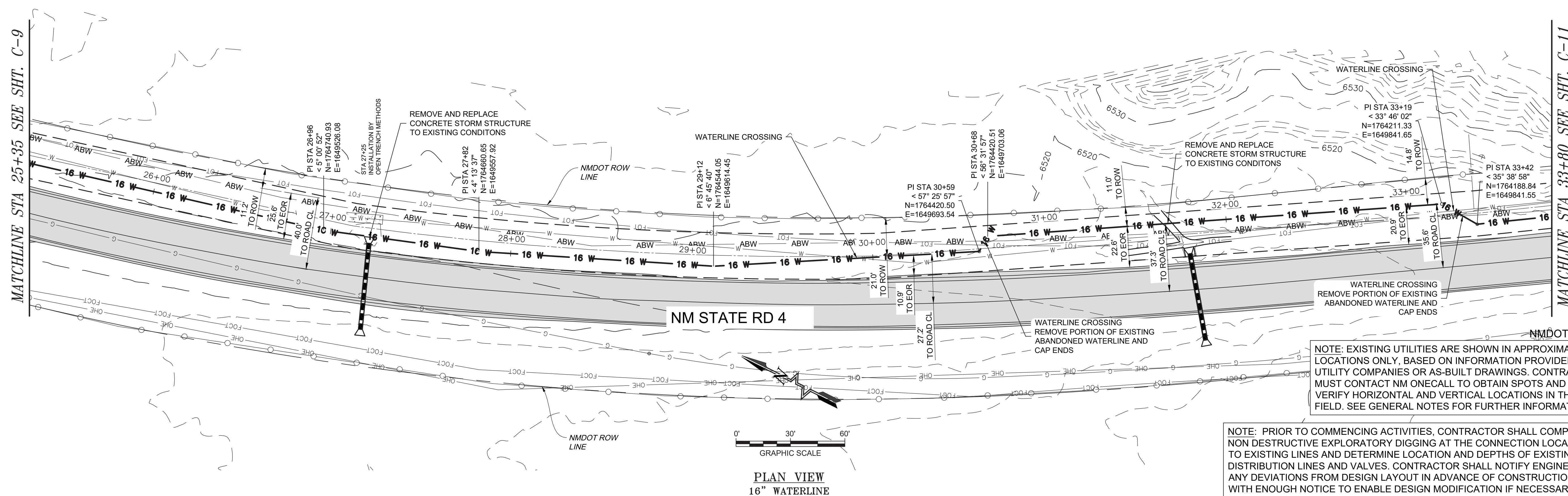
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Project No: 6231036

Sheet: C-9

MATCHLINE STA 25+35 SEE SHT. C-9

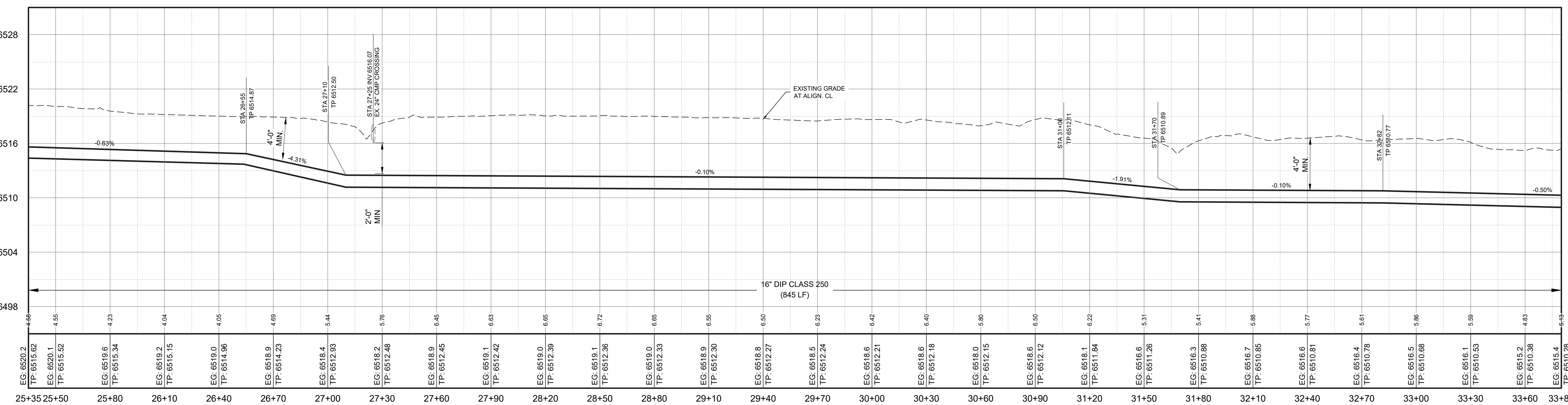
MATCHLINE STA 33+80 SEE SHT. C-11



PLAN VIEW
16" WATERLINE

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PROFILE VIEW
16" WATERLINE

SCALE: HORIZ. 1" = 30'
VERT. 1" = 6'

NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

By: []
Description: []
Rev# Date: []

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LOS ALAMOS COUNTY, NM

NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 SOUTH WATERLINE PLAN & PROFILE
STA: 25+35 TO STA: 33+80

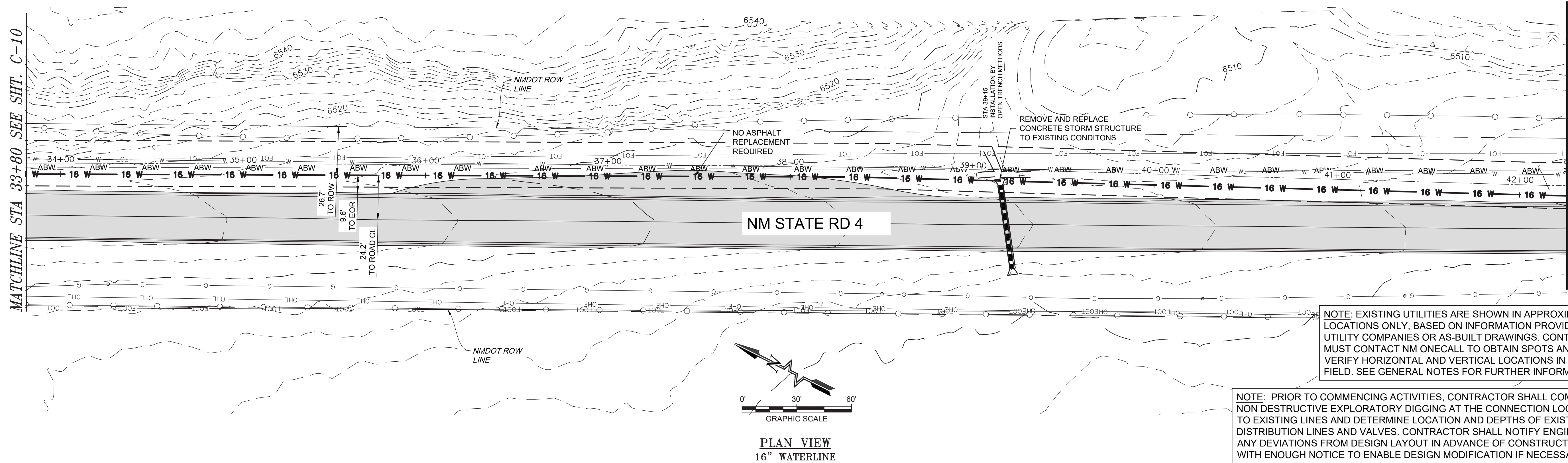
LOS ALAMOS COUNTY

MARTIN HOWELL
NEW MEXICO
22870
Professional Engineer

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Designed	Drawn	Checked
AC	JAD	MEH

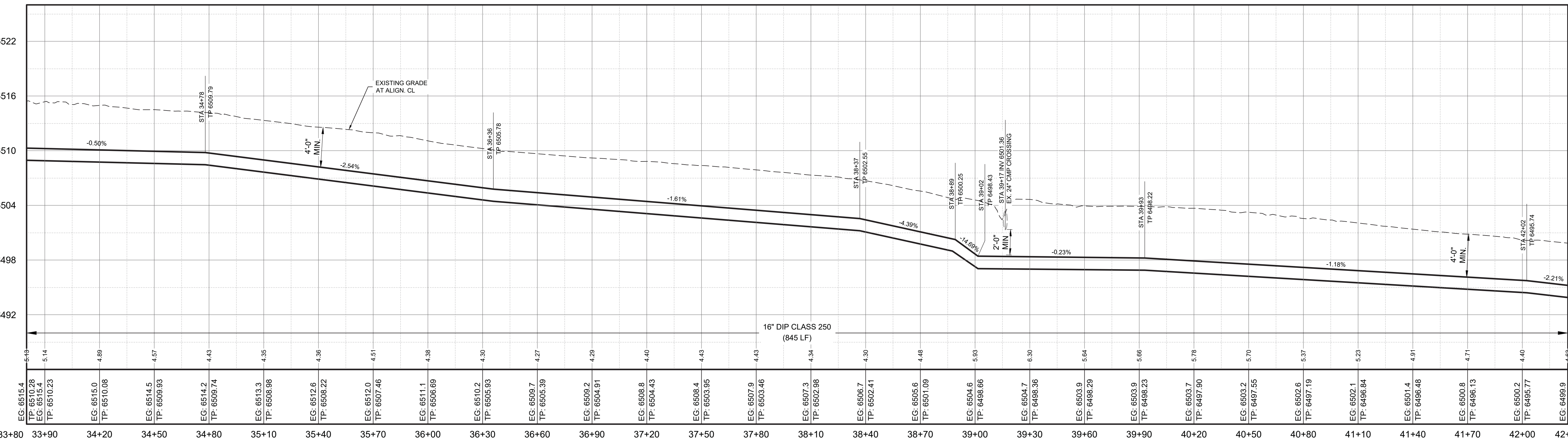
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Project No: 6231036
Sheet: C-10



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PLAN VIEW
16" WATERLINE



PROFILE VIEW
16" WATERLINE

NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

Rev#	Date	Description

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LOS ALAMOS COUNTY
LOS ALAMOS COUNTY, NM
NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 SOUTH WATERLINE PLAN & PROFILE
STA: 33+80 TO STA: 42+25



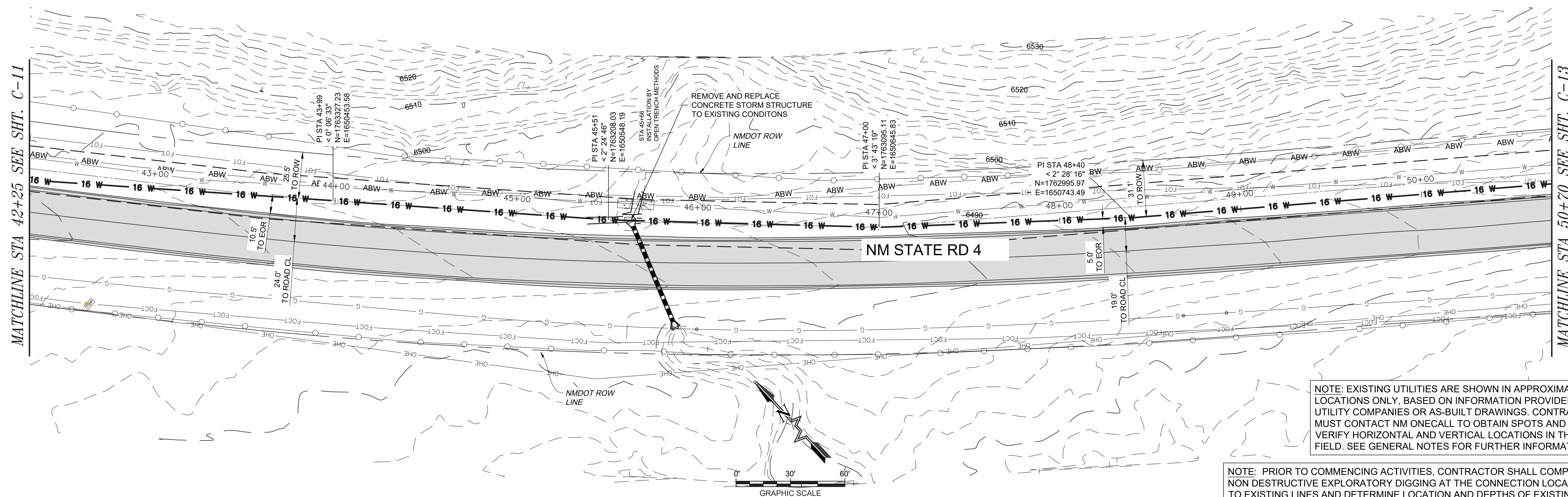
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Designed AC	Drawn JAD	Checked MEH
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Date: June 2024
Scale: Horiz: 1" = 30'
Vert: 1" = 6'
Project No: 6231036
Sheet: C-11

MATCHLINE STA 42+25 SEE SHT. C-11

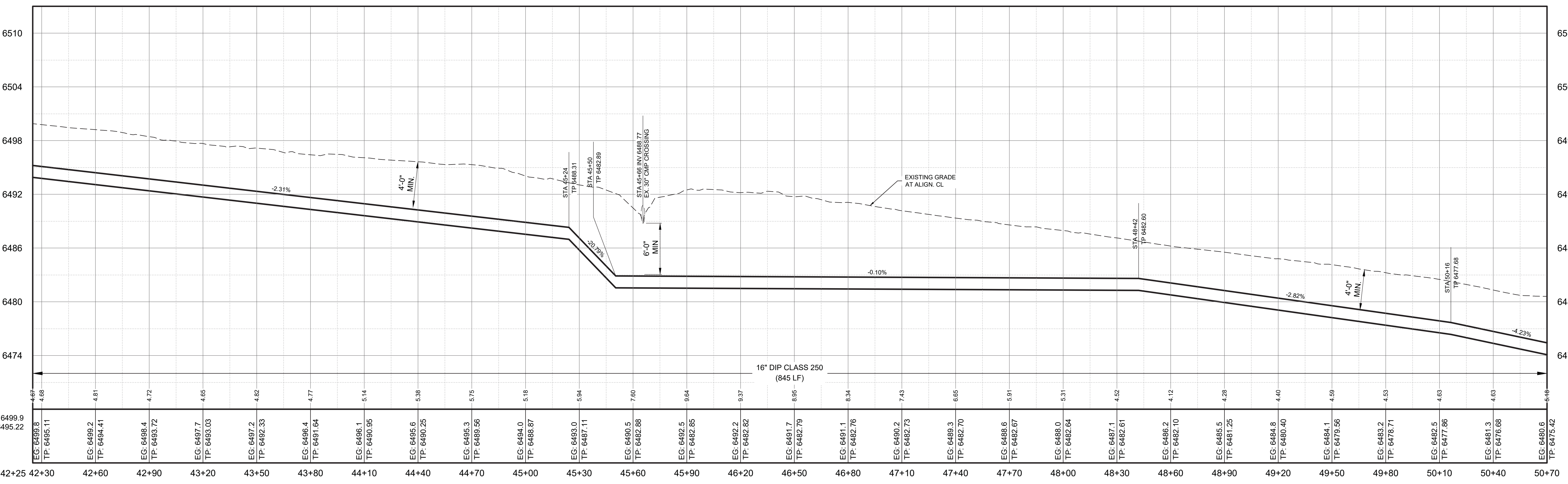
MATCHLINE STA 50+70 SEE SHT. C-13



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PLAN VIEW
16" WATERLINE



PROFILE VIEW
16" WATERLINE
SCALE: HORIZ. 1" = 30'
VERT. 1" = 6'

NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

Rev#	Date	Description	By	Chkd

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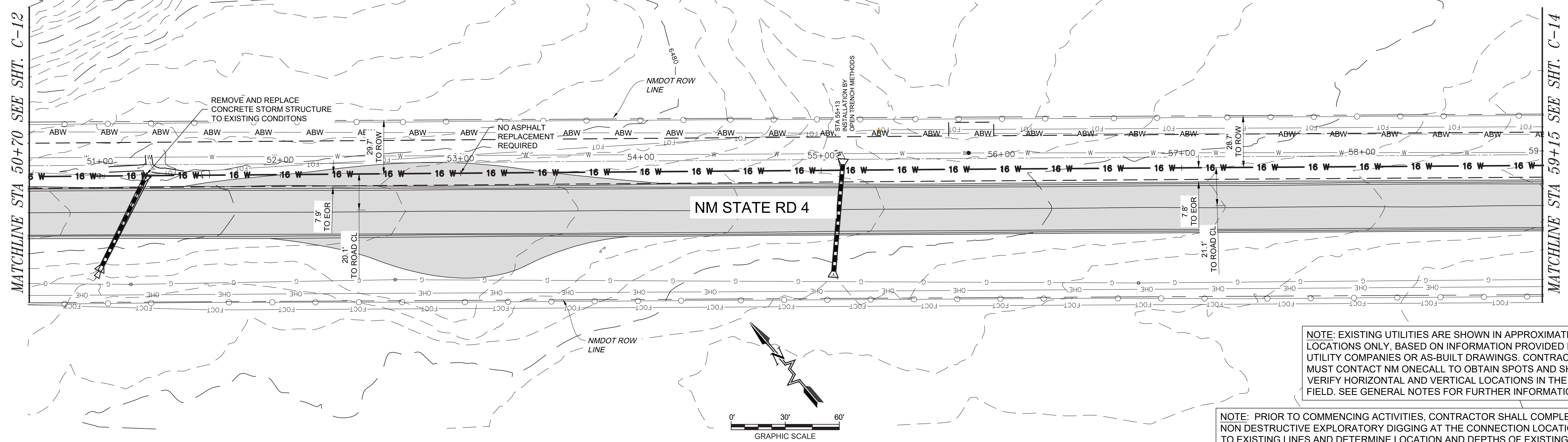
LOS ALAMOS COUNTY, NM
LOS ALAMOS COUNTY
NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 SOUTH WATERLINE PLAN & PROFILE
STA: 42+25 TO STA: 50+70



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Designed	Drawn	Checked
AC	JAD	MEH

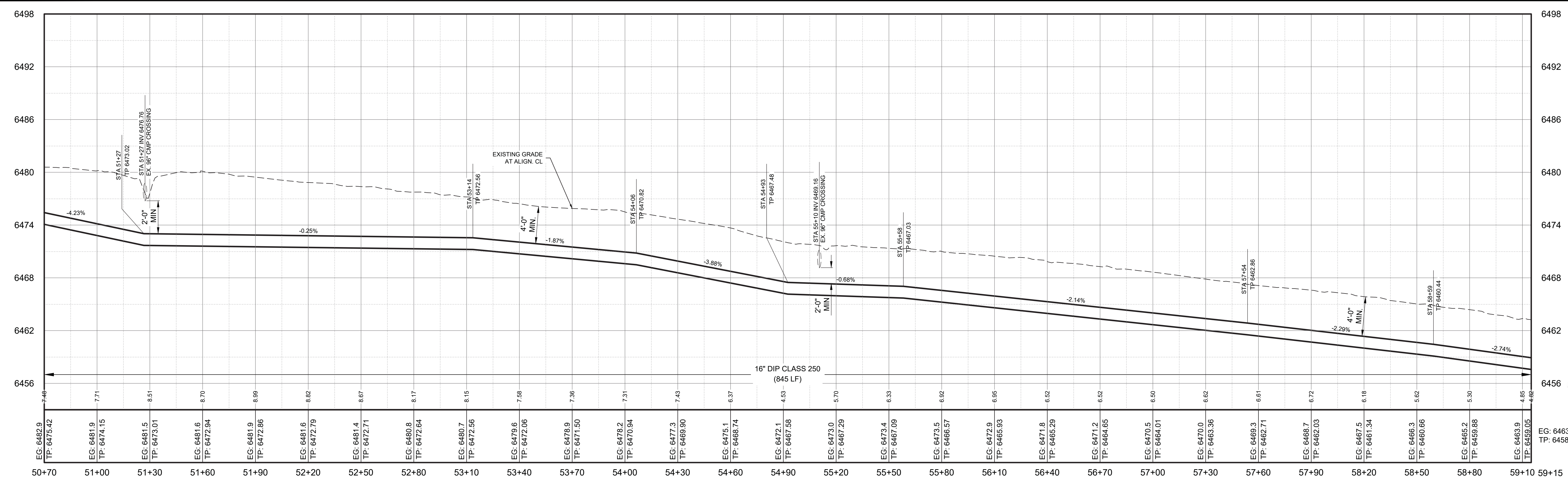
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Project No: 6231036
Sheet: C-12



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PLAN VIEW
16" WATERLINE



PROFILE VIEW
16" WATERLINE
SCALE: HORIZ. 1" = 30'
VERT. 1" = 6'

NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

By: CJK

Description:

Rev# Date:

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LOS ALAMOS COUNTY

LOS ALAMOS COUNTY, NM

NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT

NM 4 SOUTH WATERLINE PLAN & PROFILE

STA: 50+70 TO STA: 59+15

MARTIN HOWELL
NEW MEXICO
22870
PROFESSIONAL ENGINEER

EG: 6463.7
TP: 6458.92

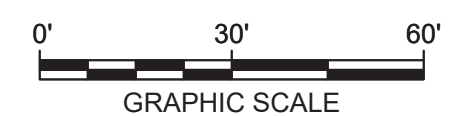
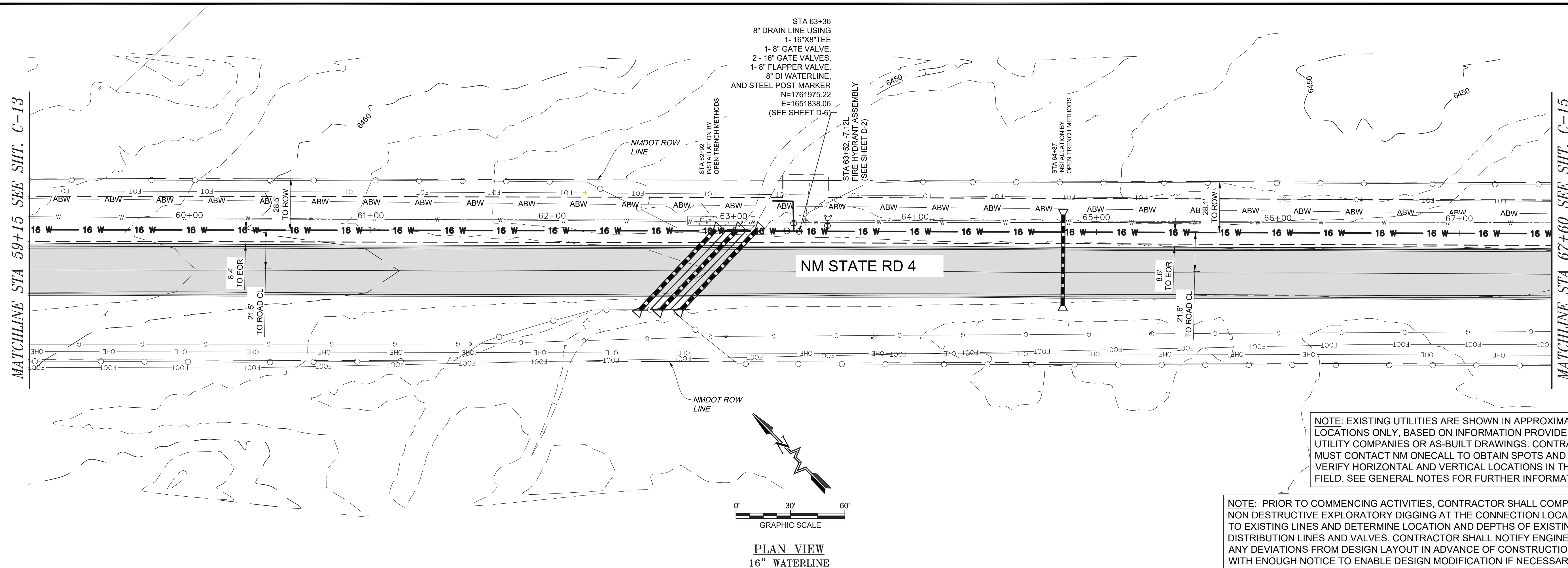
Designed AC	Drawn JAD	Checked MEH
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Date: June 2024

Scale: Horiz:
Vert:

Project No: 6231036

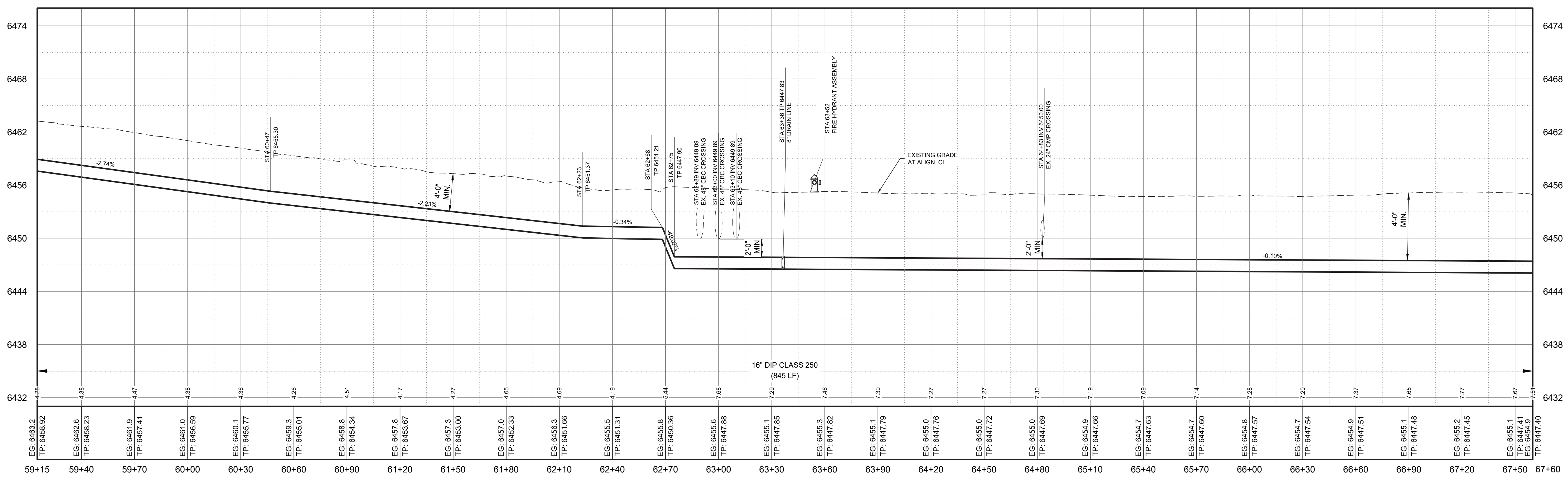
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C-13



PLAN VIEW
16" WATERLINE

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PROFILE VIEW
16" WATERLINE
SCALE: HORIZ. 1" = 30'
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Rev#	Date	Description	By	Chkd

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LOS ALAMOS COUNTY

LOS ALAMOS COUNTY, NM

NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 SOUTH WATERLINE PLAN & PROFILE
STA: 59+15 TO STA: 67+60

MARTIN HOWELL
NEW MEXICO
22870
PROFESSIONAL ENGINEER

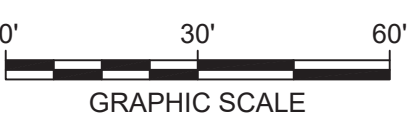
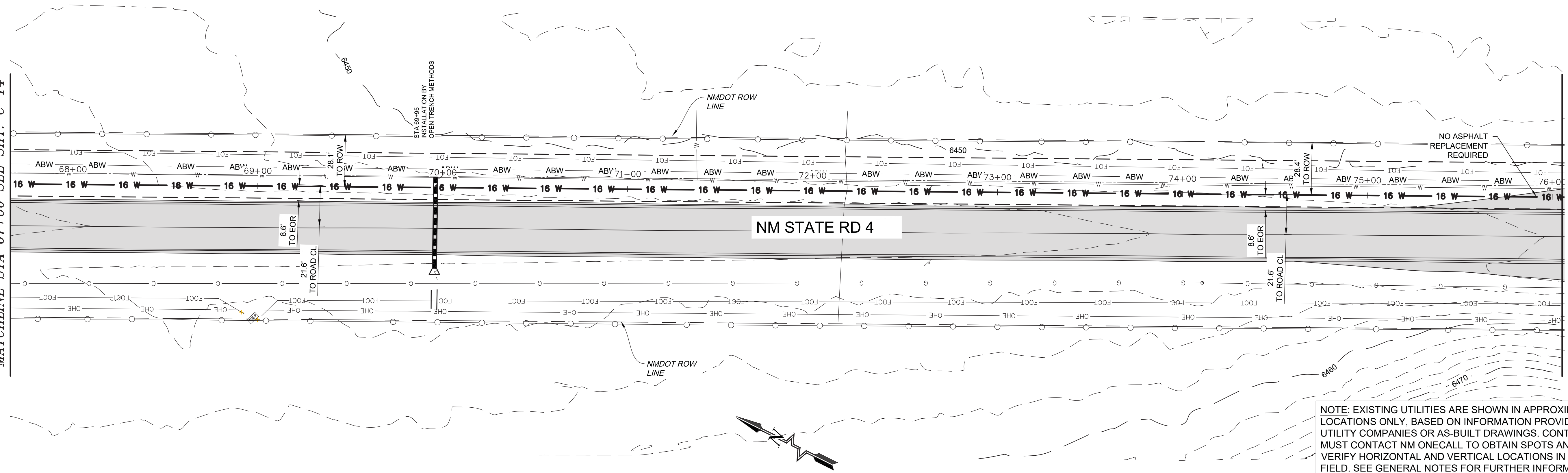
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Designed	Drawn	Checked
AC	JAD	MEH

Date: June 2024
Scale: Horiz: _____
Vert: _____
Project No: 6231036
Sheet: C-14

MATCHLINE STA 67+60 SEE SHT. C-14

MATCHLINE STA 76+05 SEE SHT. C-16

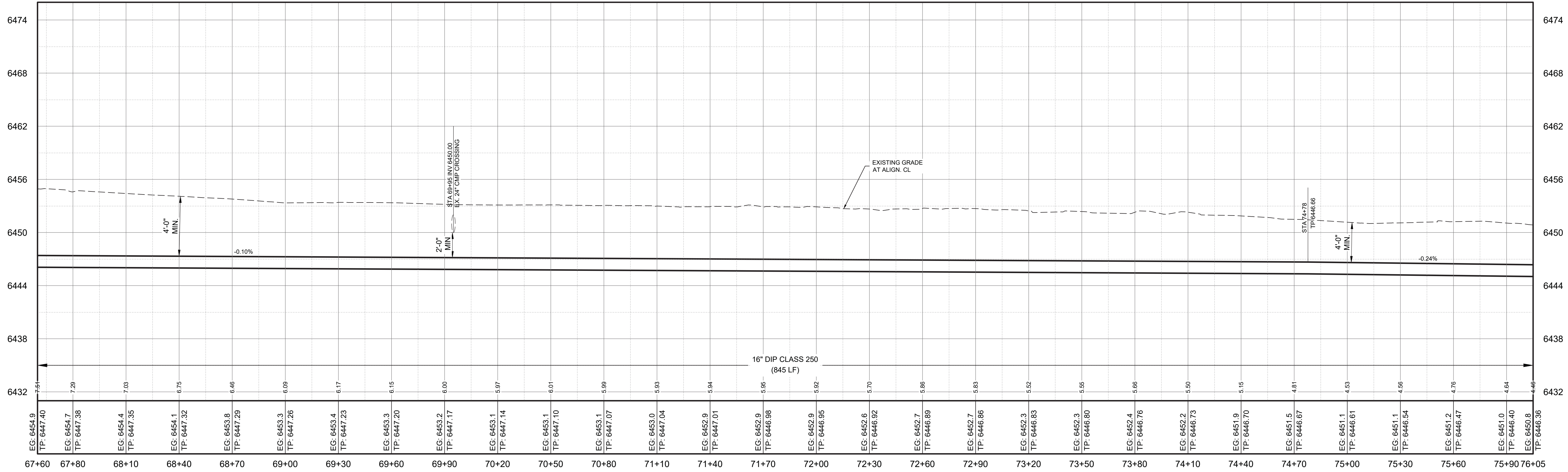


PLAN VIEW
16" WATERLINE

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Rev#	Date	Description	By	Chkd



PROFILE VIEW
16" WATERLINE
SCALE: HORIZ. 1" = 30'
VERT. 1" = 6'

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LOS ALAMOS COUNTY
LOS ALAMOS COUNTY, NM
NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 SOUTH WATERLINE PLAN & PROFILE
STA: 67+60 TO STA: 76+05



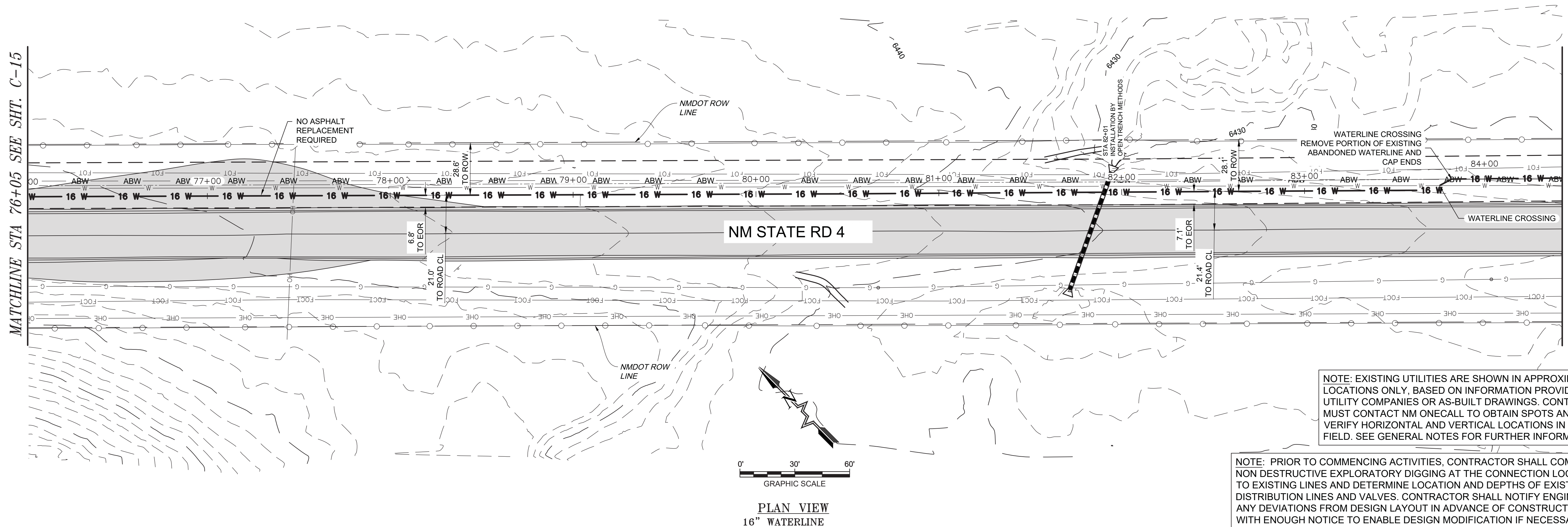
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Designed	Drawn	Checked
AC	JAD	MEH

Date: June 2024
Scale: Horiz: Vert:
Project No: 6231036
Sheet: C-15

MATCHLINE STA 76+05 SEE SHT. C-15

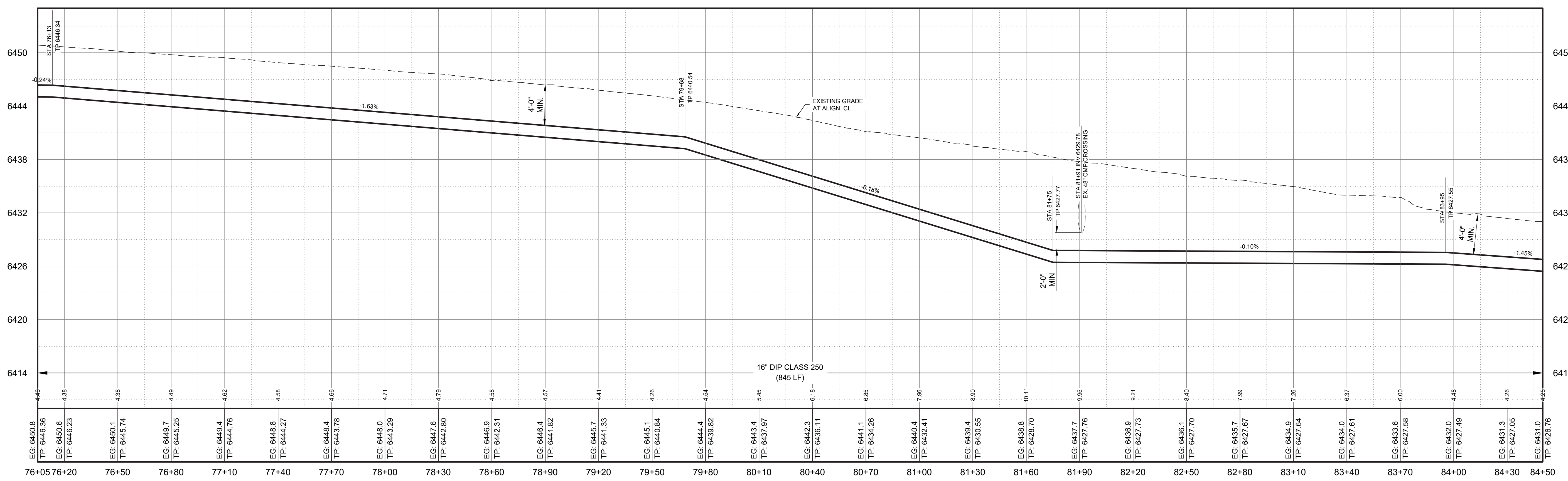
MATCHLINE STA 84+50 SEE SHT. C-17



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PLAN VIEW
16" WATERLINE



PROFILE VIEW
16" WATERLINE
SCALE: HORIZ. 1" = 30'
VERT. 1" = 6'

NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

Rev#	Date	Description

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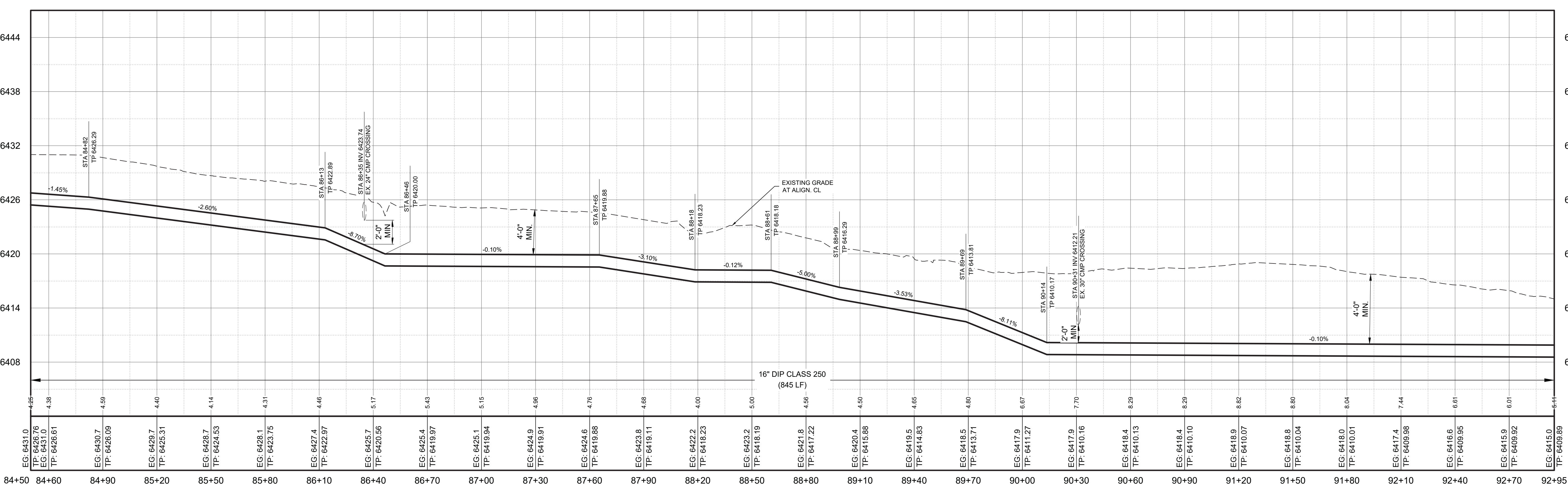
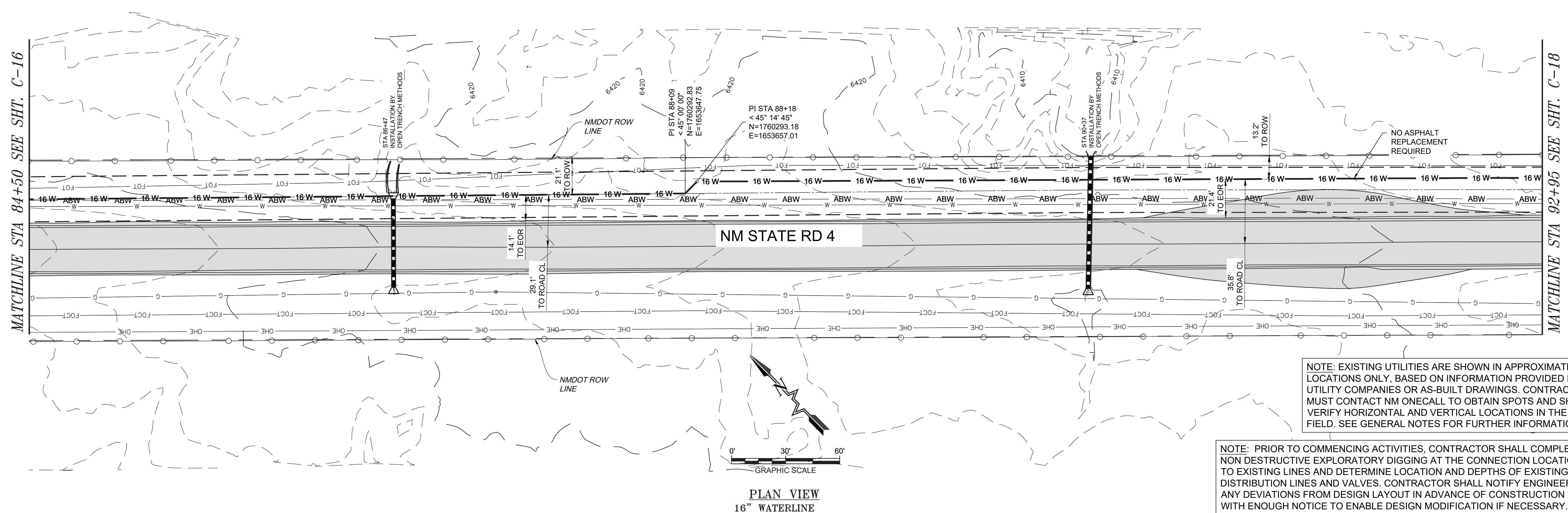
LOS ALAMOS COUNTY, NM
LOS ALAMOS COUNTY
NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 SOUTH WATERLINE PLAN & PROFILE
STA: 76+05 TO STA: 84+50



THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
AC	JAD	MEH

Date: June 2024
Scale: Horiz: Vert:
Project No: 6231036
Sheet: C-16



NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

PROFILE VIEW
16" WATERLINE
SCALE: HORIZ. 1" = 30'
VERT. 1" = 6'

Rev#	Date	Description	By	Chkd

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LOS ALAMOS COUNTY, NM

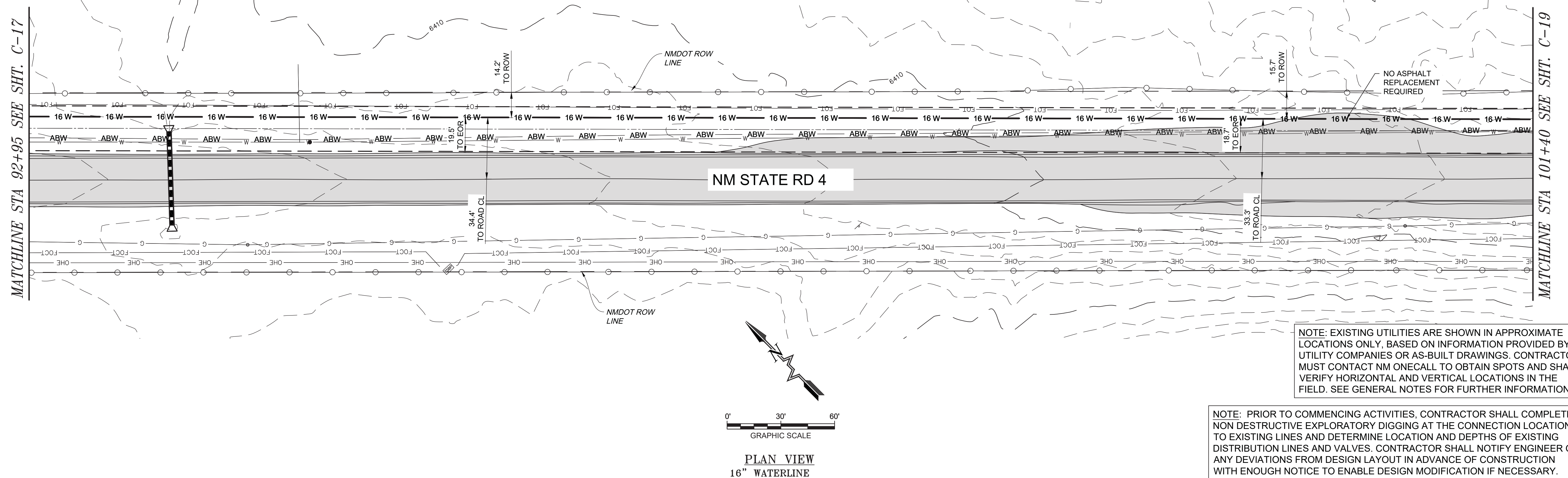
NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 SOUTH WATERLINE PLAN & PROFILE
STA: 84+50 TO STA: 92+95

MARTIN HOWELL
NEW MEXICO
22870
PROFESSIONAL ENGINEER

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

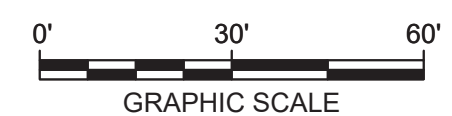
Designed	Drawn	Checked
AC	JAD	MEH

Date: June 2024
Scale: Horiz:
Vert:
Project No: 6231036
Sheet: C-17

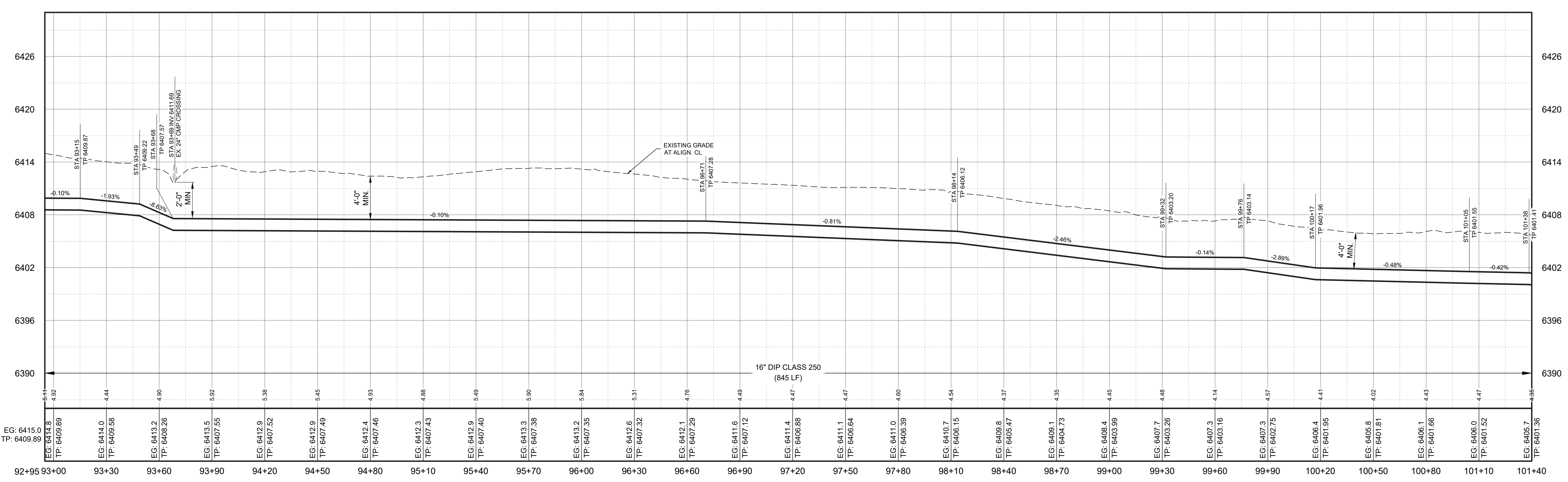


NOTE: EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY, BASED ON INFORMATION PROVIDED BY UTILITY COMPANIES OR AS-BUILT DRAWINGS. CONTRACTOR MUST CONTACT NM ONECALL TO OBTAIN SPOTS AND SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS IN THE FIELD. SEE GENERAL NOTES FOR FURTHER INFORMATION.

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PLAN VIEW
16" WATERLINE



PROFILE VIEW
16" WATERLINE
SCALE: HORIZ. 1" = 30'
VERT. 1" = 6'

NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

By	Chkd
Rev#	Date
Description	

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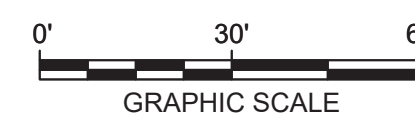
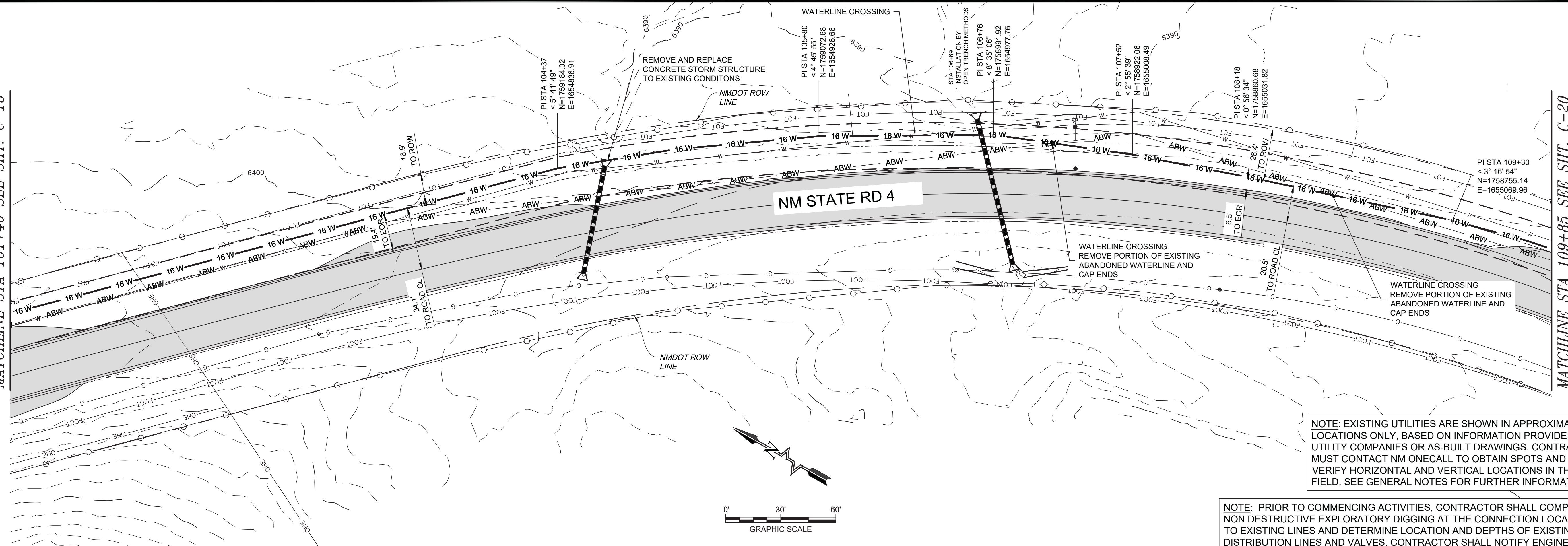
LOS ALAMOS COUNTY, NM
NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
 NM 4 SOUTH WATERLINE PLAN & PROFILE
 STA: 92+95 TO STA: 101+40

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Date: June 2024
 Scale: Horiz: _____
 Vert: _____
 Project No: 6231036
 Sheet: C-18

MATCHLINE STA 101+40 SEE SHT. C-18

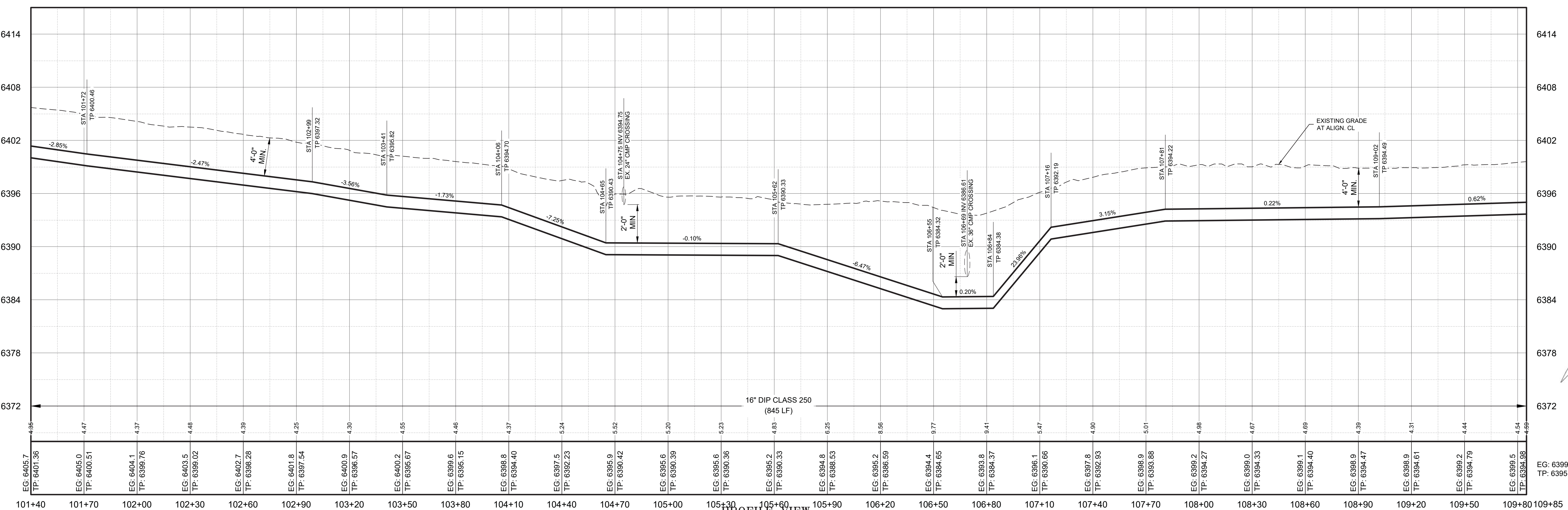
MATCHLINE STA 109+85 SEE SHT. C-20



PLAN VIEW
16" WATERLINE

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SCALE: HORIZ. 1" = 30'
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Rev#	Date	Description	By	Chkd

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LOS ALAMOS COUNTY, NM
LOS ALAMOS COUNTY
NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 SOUTH WATERLINE PLAN & PROFILE
STA: 101+40 TO STA: 109+85

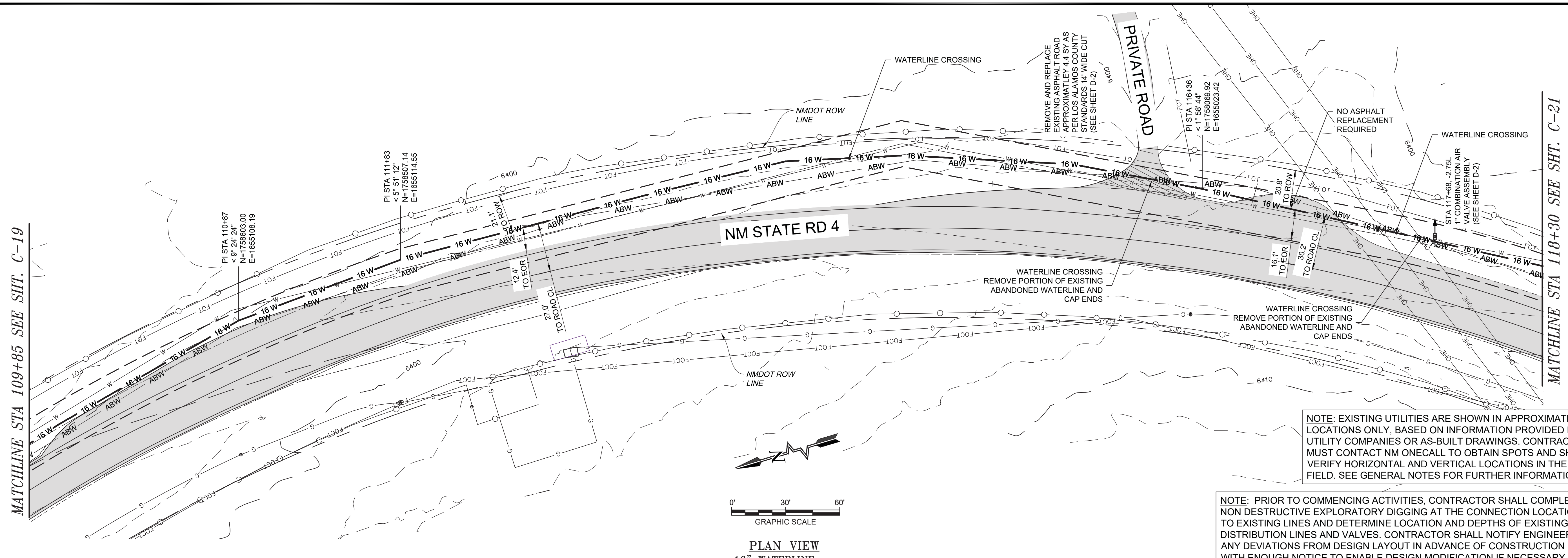


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Designed	Drawn	Checked
AC	JAD	MEH
Date: June 2024	Scale: Horiz: 1" = 30'	Vert: 1" = 6'
Project No: 6231036		
Sheet: C-19		

MATCHLINE STA 109+85 SEE SHT. C-19

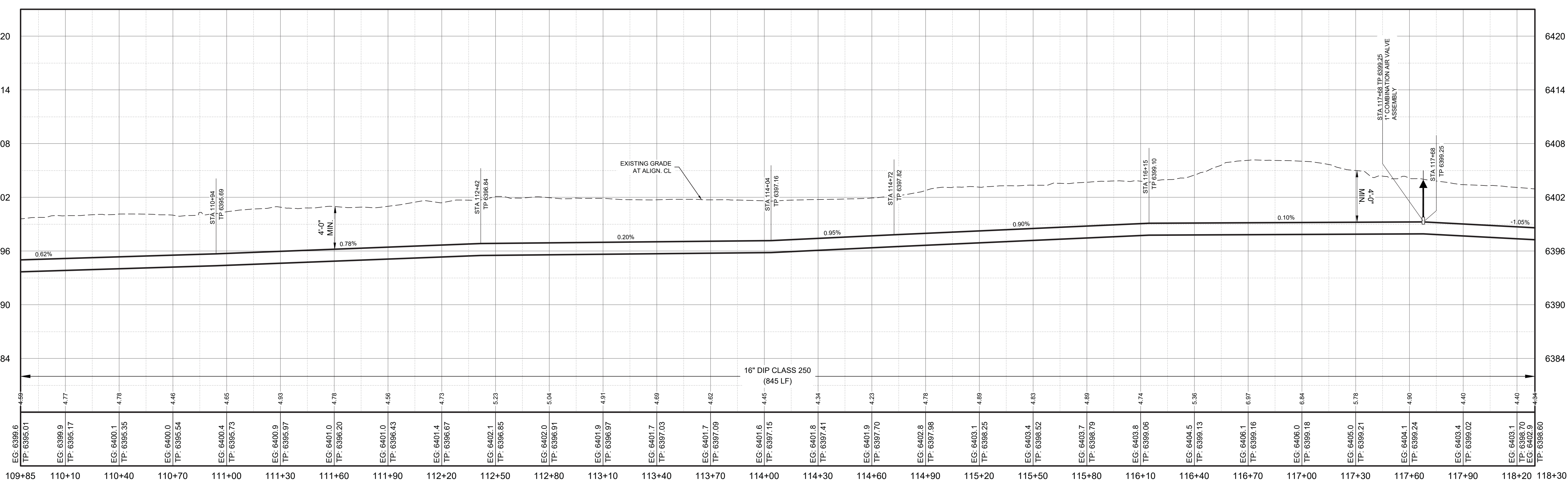
MATCHLINE STA 118+30 SEE SHT. C-21



PLAN VIEW
16" WATERLINE

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PROFILE VIEW
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By: CJKD

Description:

Rev# Date:

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LOS ALAMOS COUNTY, NM

LOS ALAMOS COUNTY

NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 SOUTH WATERLINE PLAN & PROFILE
STA: 109+85 TO STA: 118+30

MARTIN HOWELL
NEW MEXICO
22670
PROFESSIONAL ENGINEER

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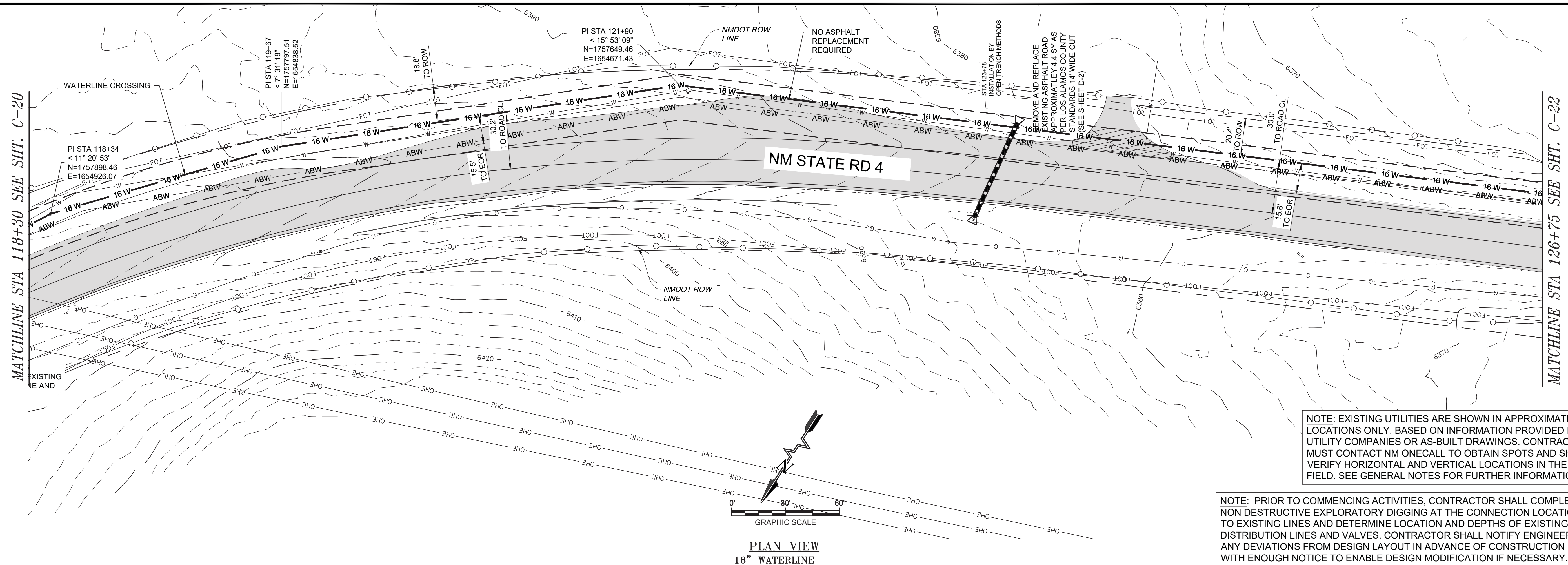
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Date: June 2024

Scale: Horiz: Vert:

Project No: 6231036

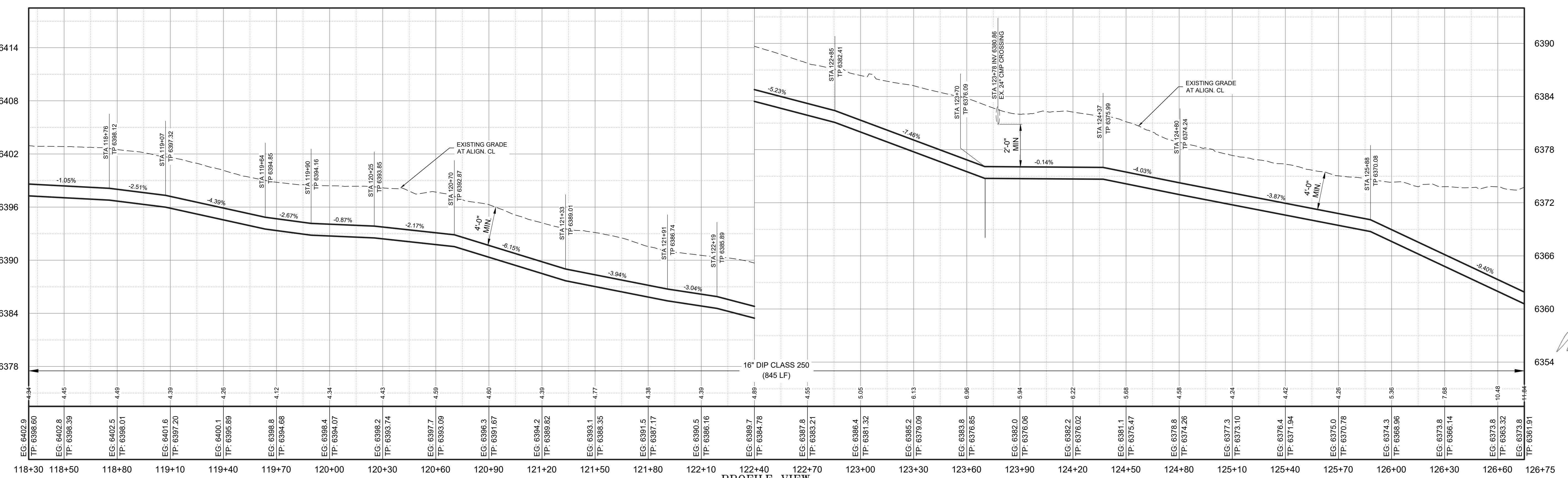
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PLAN VIEW
16" WATERLINE



PROFILE VIEW
16" WATERLINE
SCALE: HORIZ. 1" = 30'
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Rev#	Date	Description	By	Chkd

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LOS ALAMOS COUNTY, NM
LOS ALAMOS COUNTY

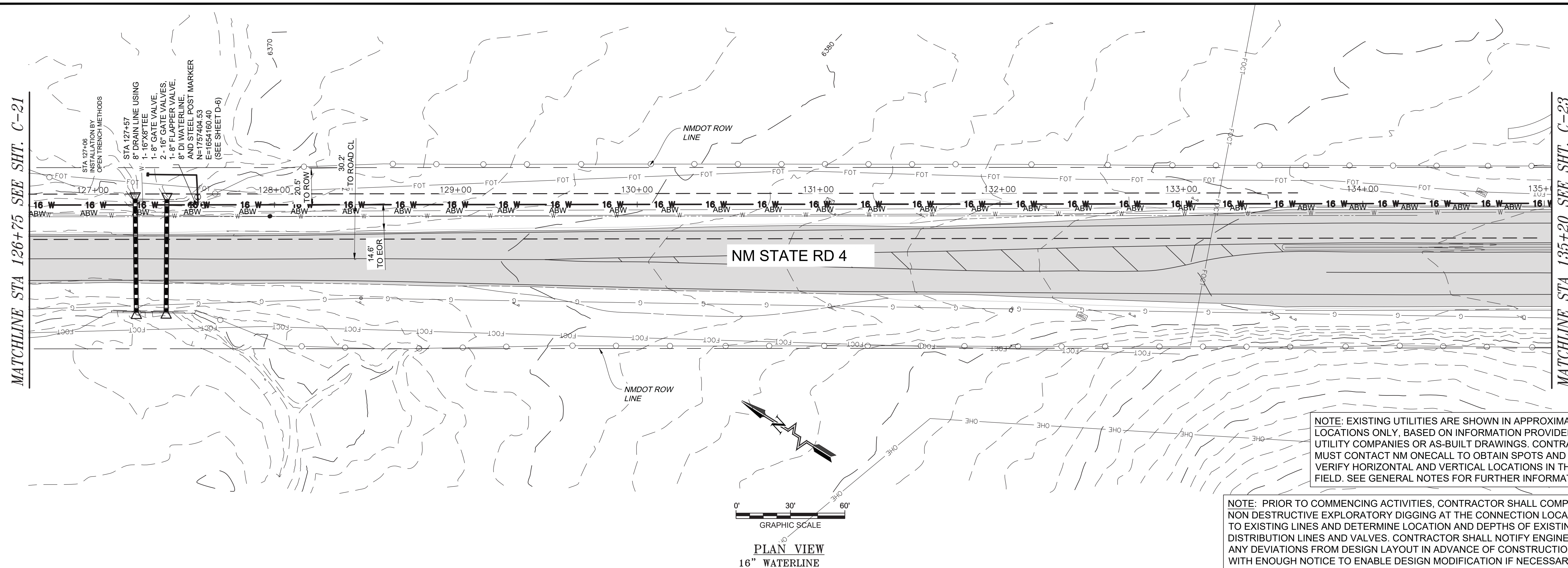
NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 SOUTH WATERLINE PLAN & PROFILE
STA: 118+30 TO STA: 126+75

MARTIN HOWELL
NEW MEXICO
22670
PROFESSIONAL ENGINEER

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AC	JAD	MEH

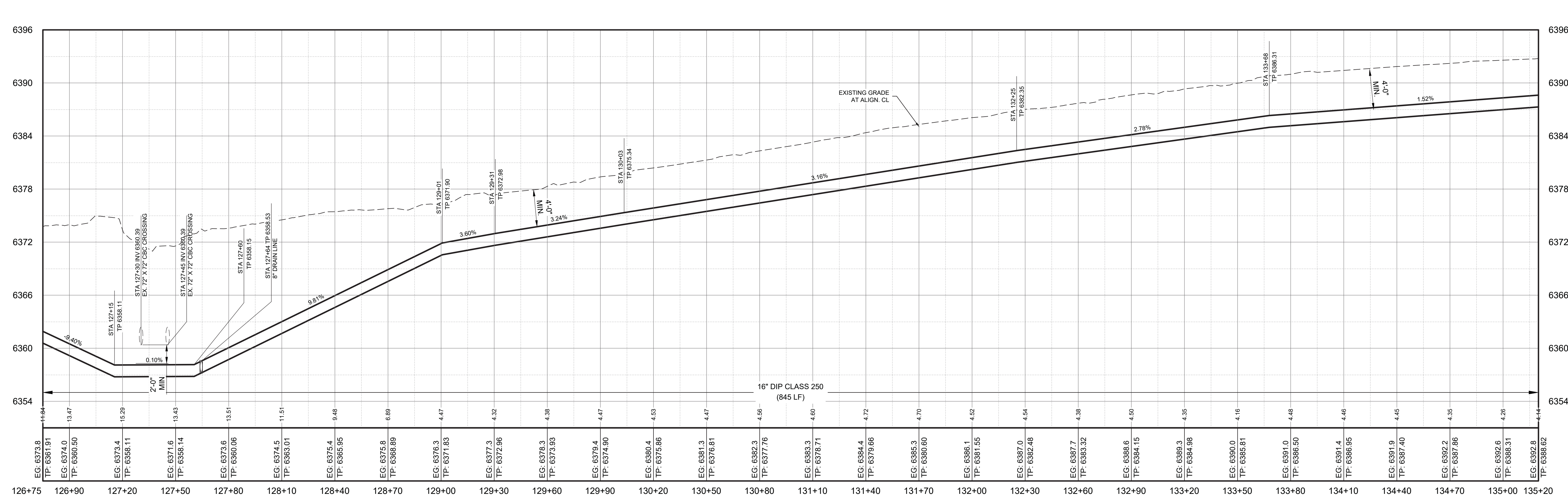
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Vert:
Project No: 6231036
Sheet: C-21



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PLAN VIEW
16" WATERLINE



PROFILE VIEW
16" WATERLINE

SCALE: HORIZ. 1" = 30'
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NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 SOUTH WATERLINE PLAN & PROFILE
STA: 126+75 TO STA: 135+20

MARTIN HOWELL
NEW MEXICO
22670
PROFESSIONAL ENGINEER

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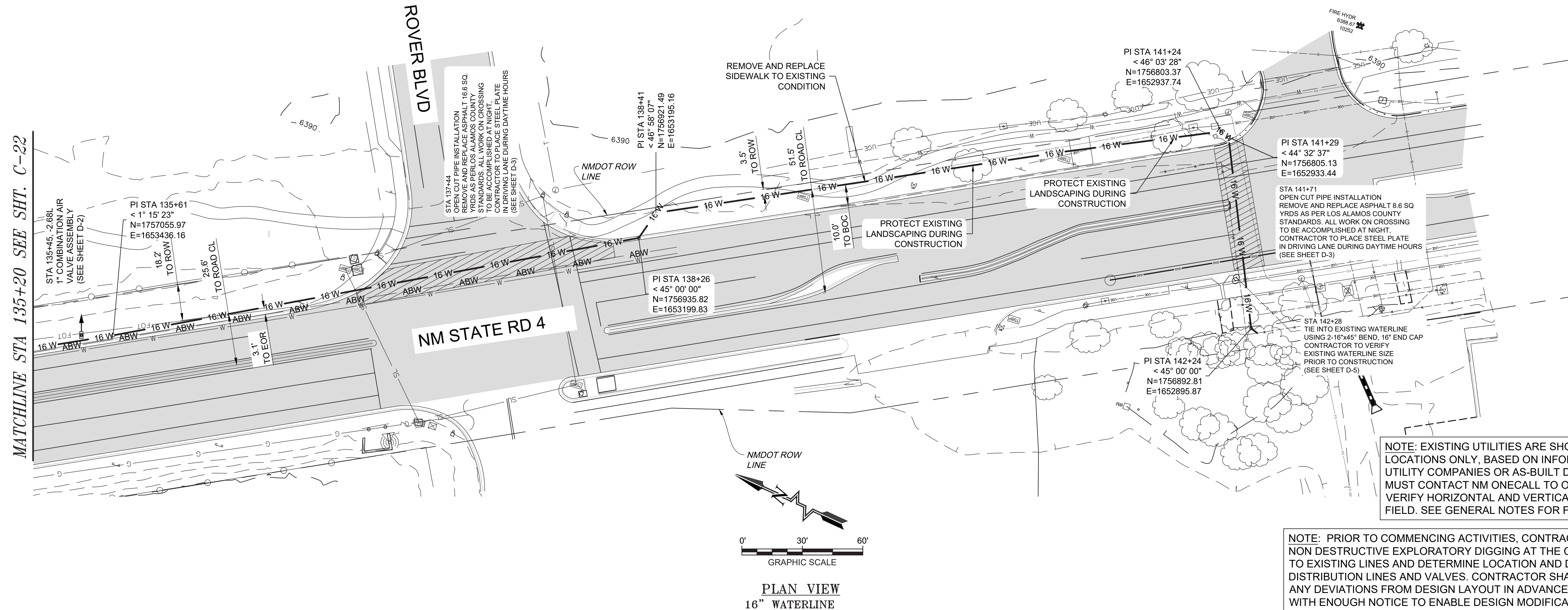
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AC	JAD	MEH

Date: June 2024

Scale: Horiz: _____
Vert: _____

Project No: 6231036

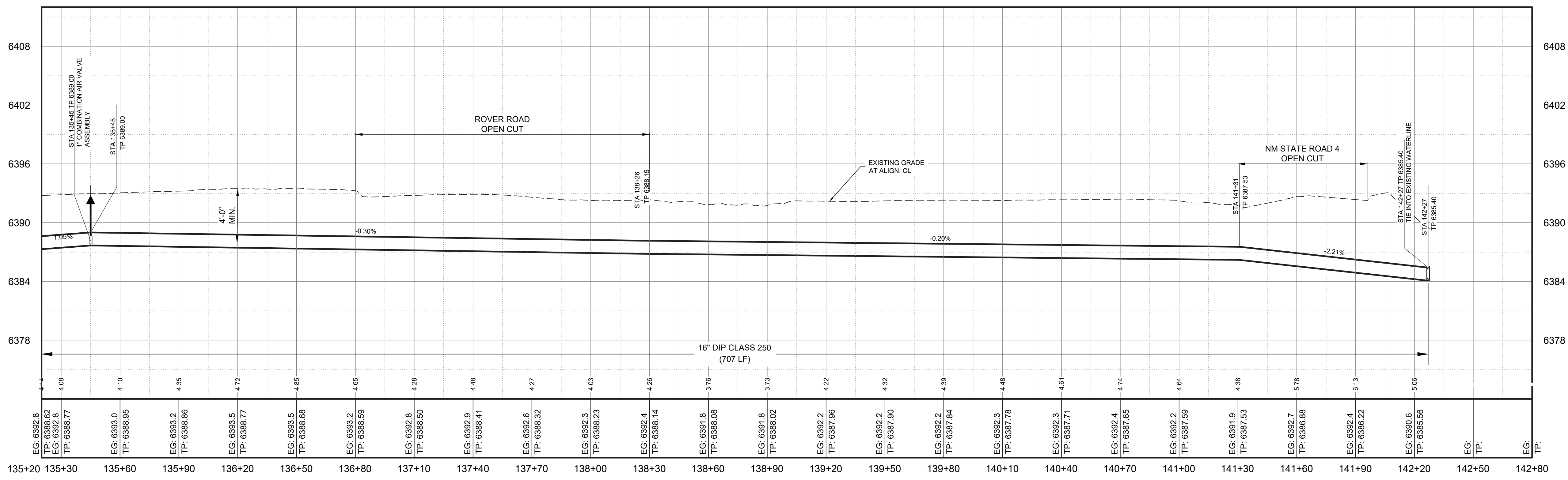
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PLAN VIEW
16" WATERLINE

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PROFILE VIEW
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LOS ALAMOS COUNTY

LOS ALAMOS COUNTY, NM

NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
NM 4 SOUTH WATERLINE PLAN & PROFILE
STA: 135+20 TO STA: 142+28

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

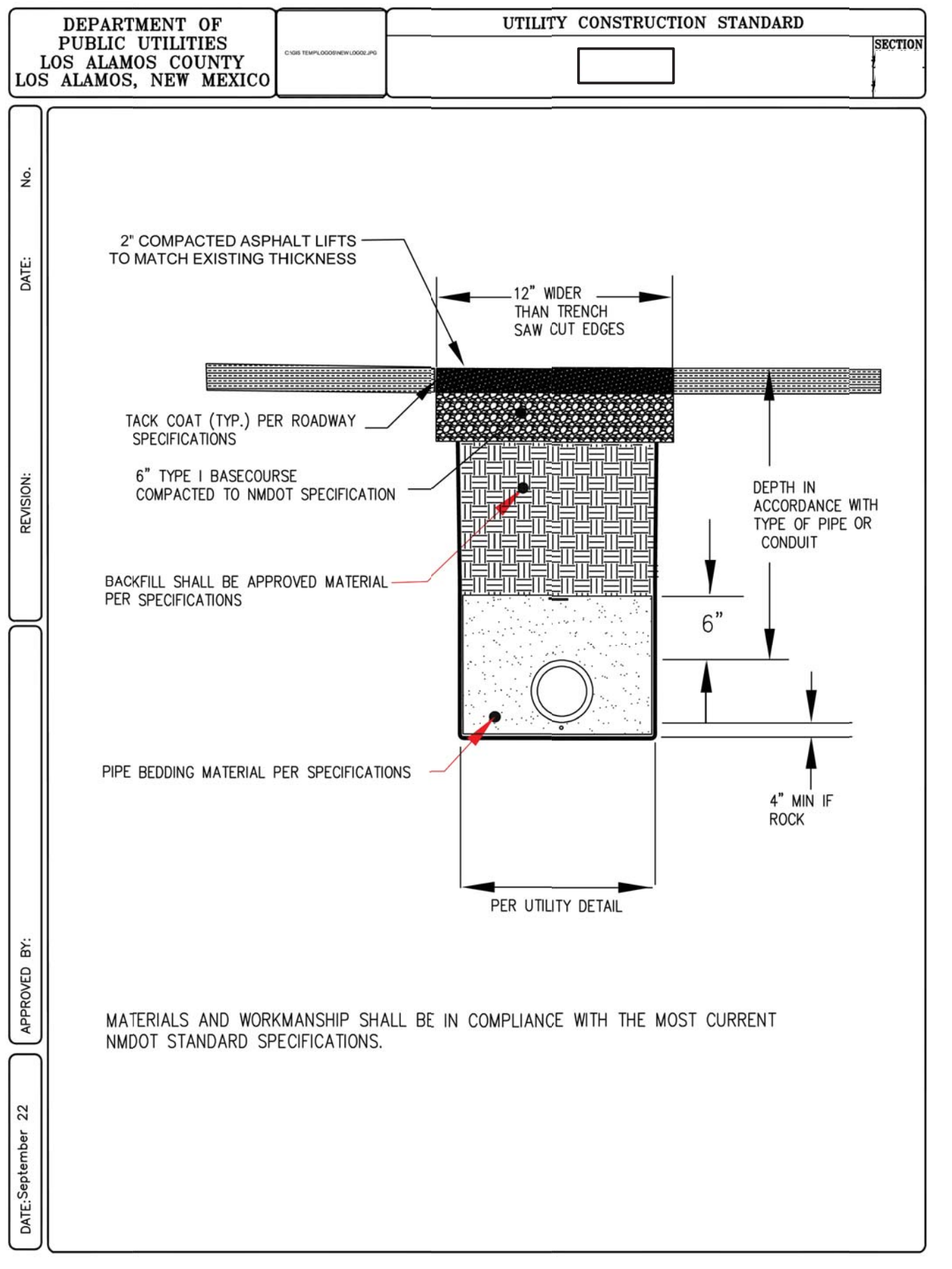
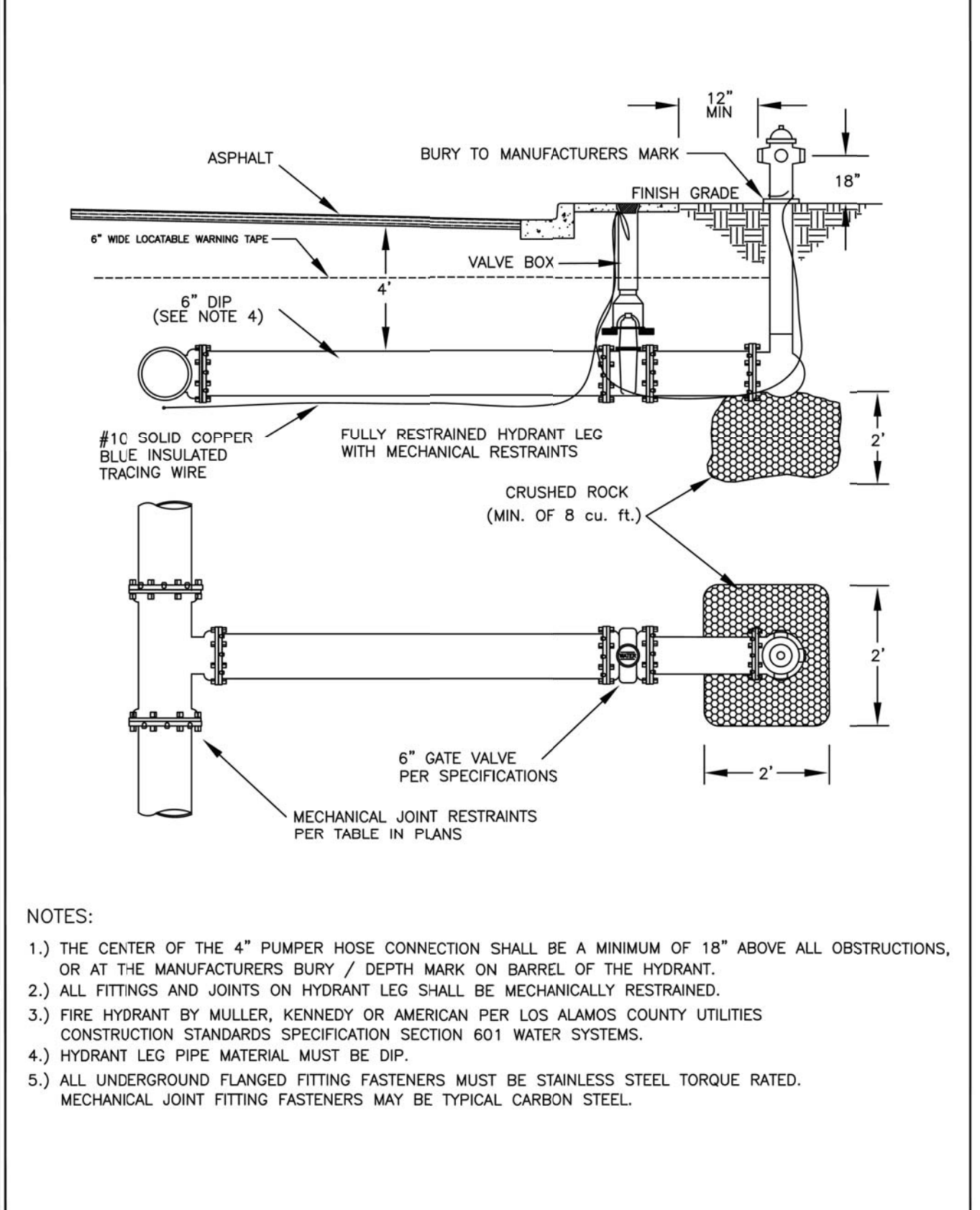
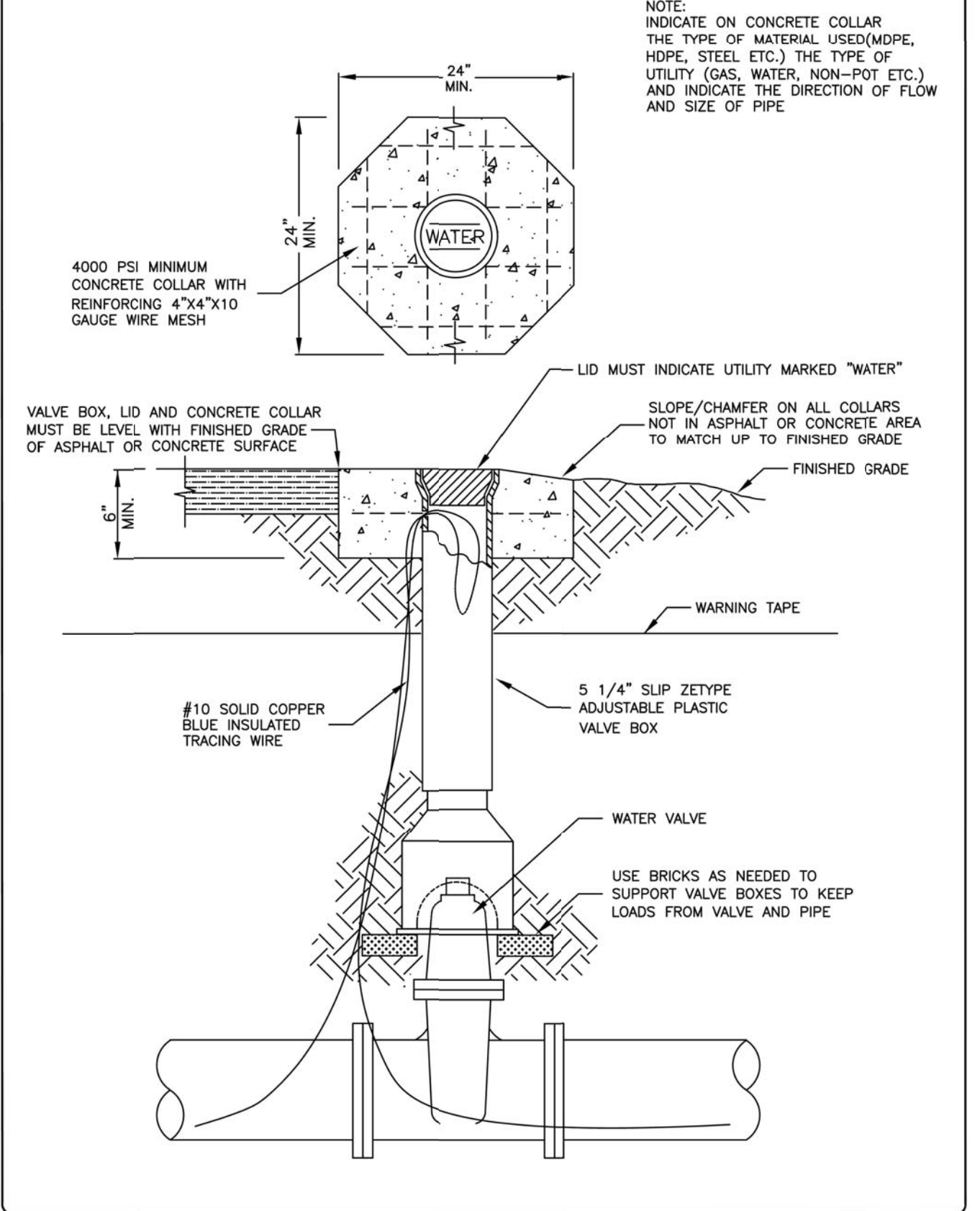
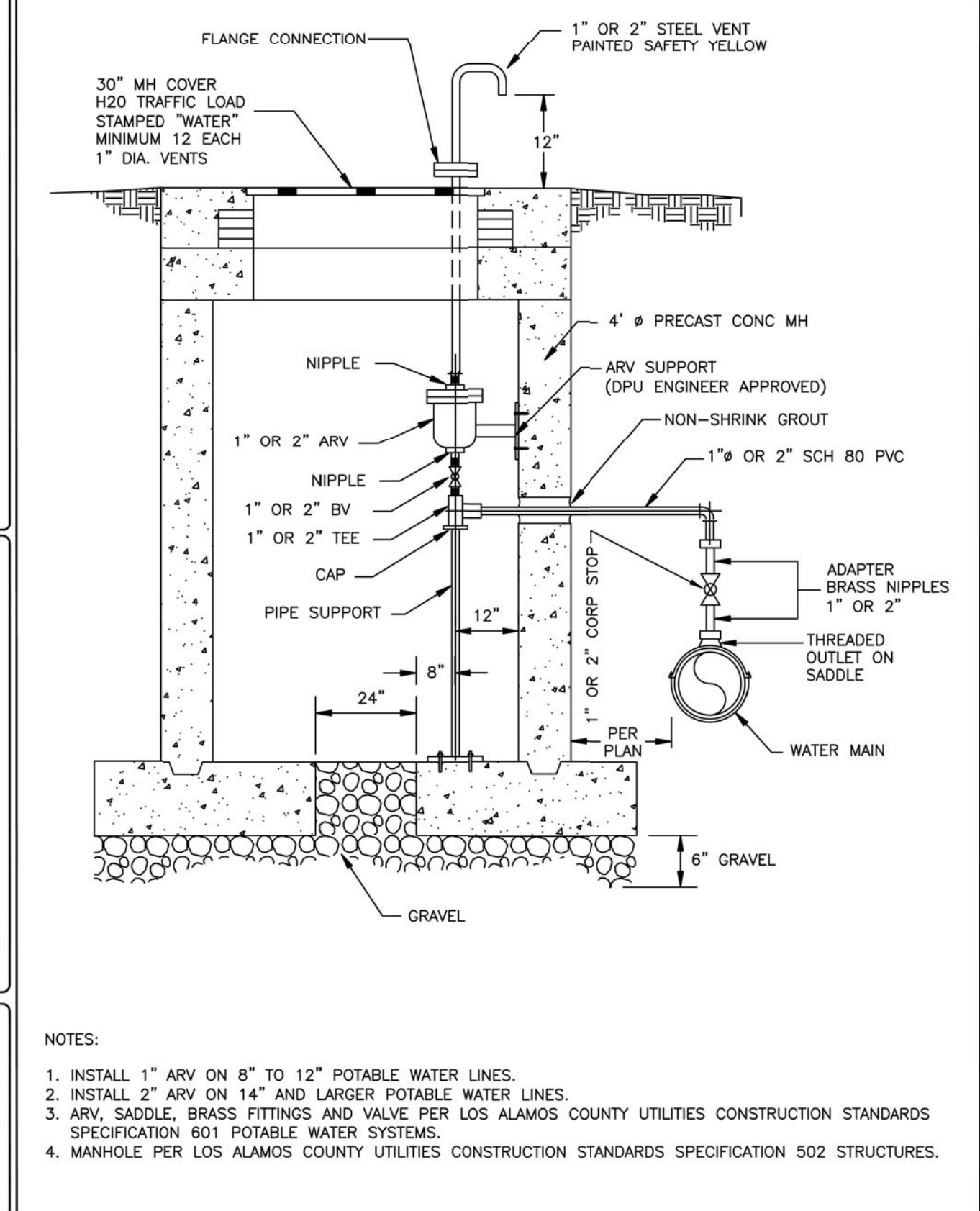
Designed	Drawn	Checked
AC	JAD	MEH

Date: June 2024

Scale: Horiz:
Vert:

Project No: 6231036

Sheet: **C-23**



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By: [Signature]

Description

Rev # Date

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LOS ALAMOS COUNTY, NM

**NM STATE 4 - 16" TRANSMISSION LINE
 REPLACEMENT
 DETAILS SHEET (2 OF 8)**

THESE ARE LOS ALAMOS COUNTY STANDARD DRAWINGS

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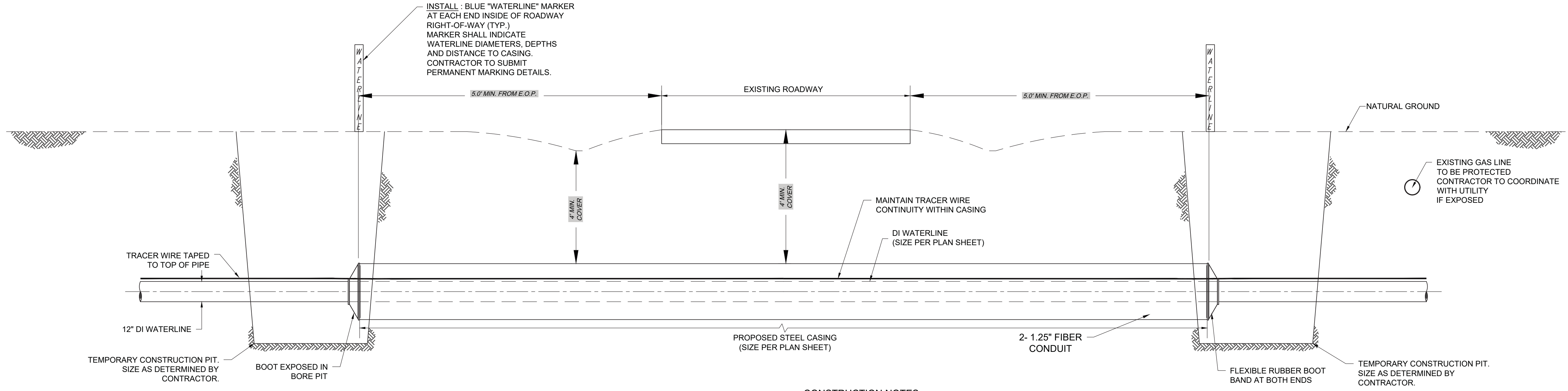
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AC	JAD	MEH

Date: June 2024

Scale: Horiz: [Blank]
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Project No: 6231036

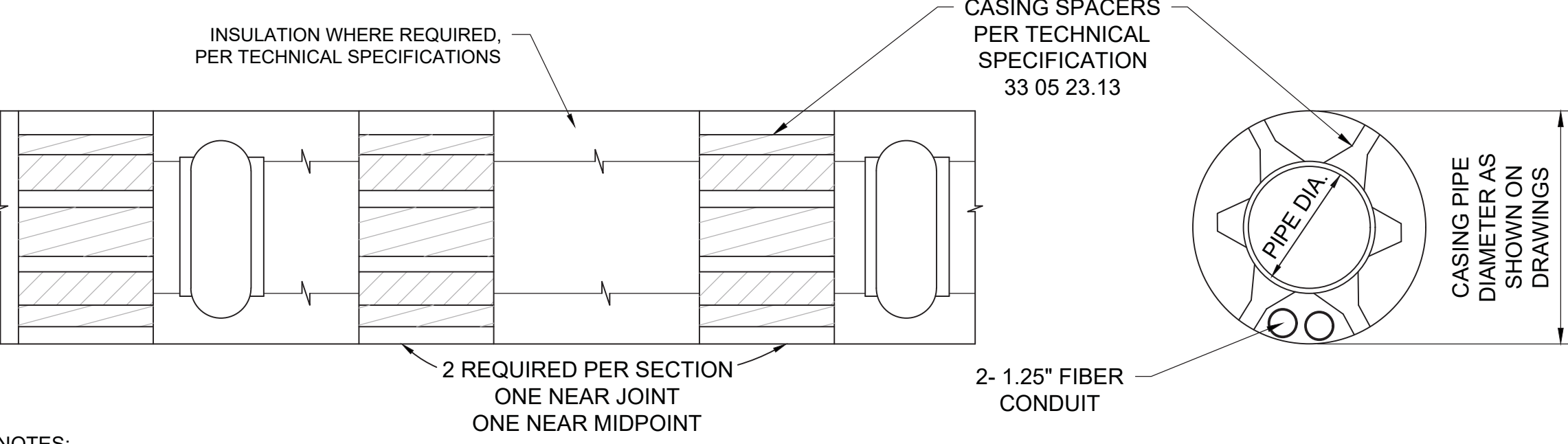
Sheet: D-2



CONSTRUCTION NOTES:

1. TRACER WIRE CONTINUITY SHALL BE MAINTAINED ACROSS THE STRUCTURE XING.
2. PIPE SHALL BE RESTRAINED THROUGHOUT CASING.
3. ADHERE TO ANY ADDITIONAL ROADWAY CROSSING PERMIT REQUIREMENTS.

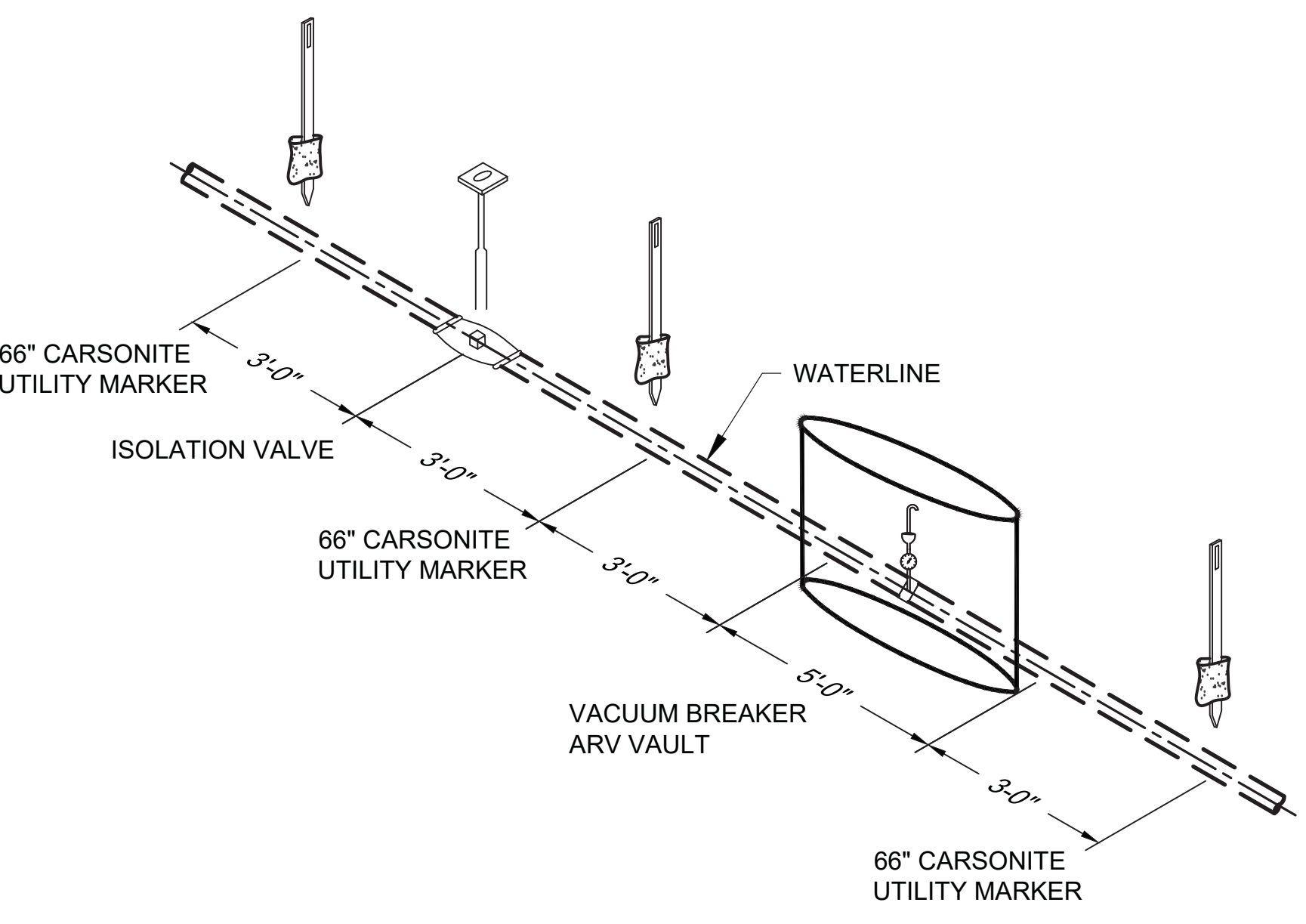
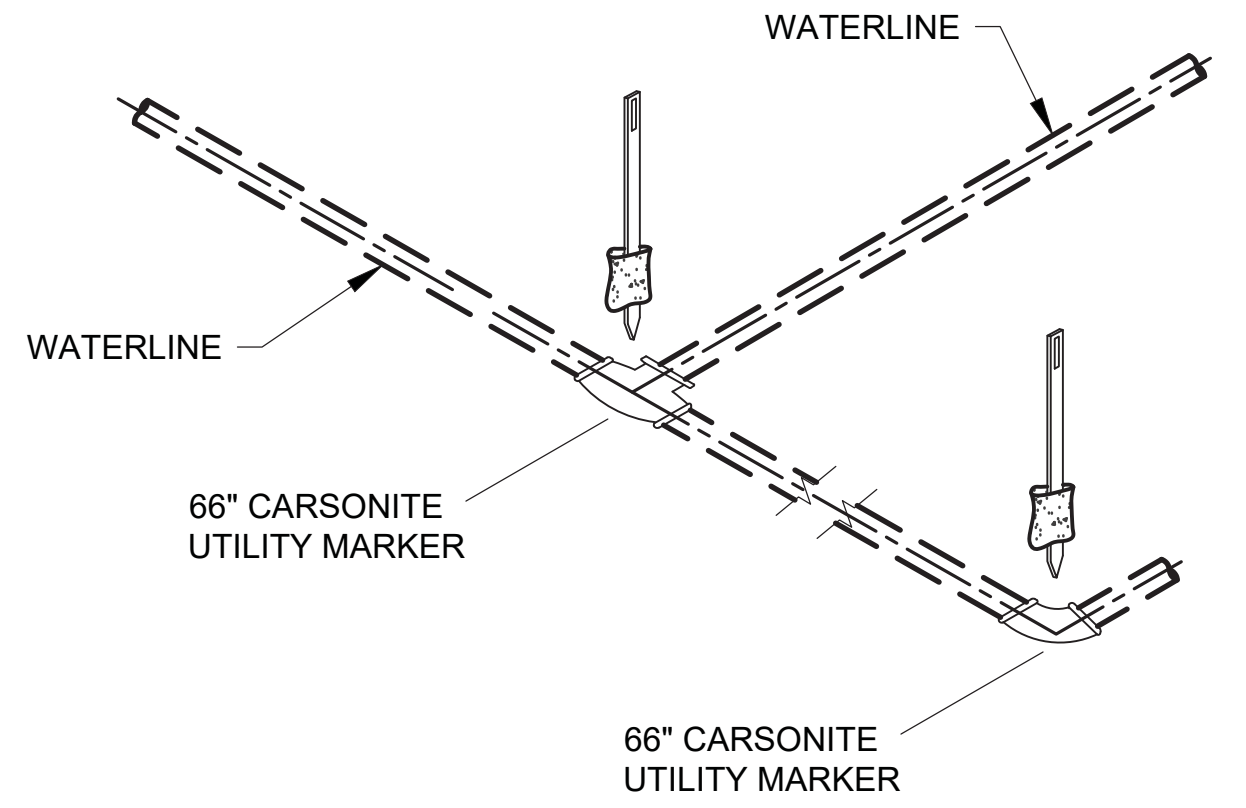
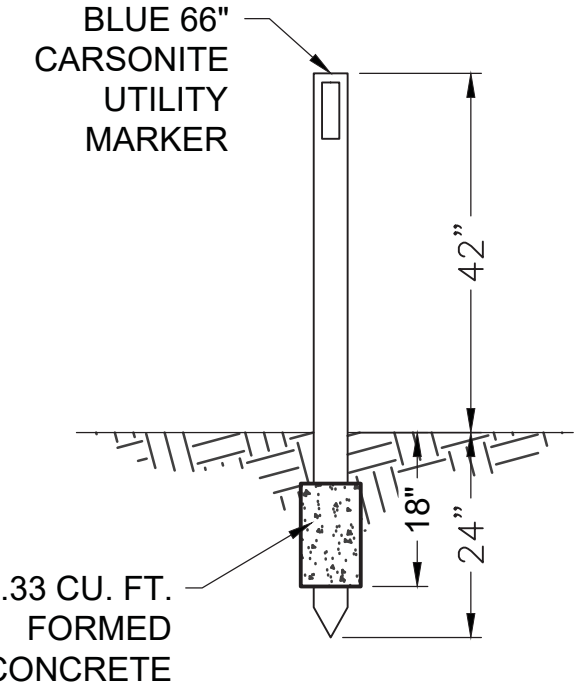
**TRENCHLESS BORE CROSSING DETAIL
NOT TO SCALE**



NOTES:

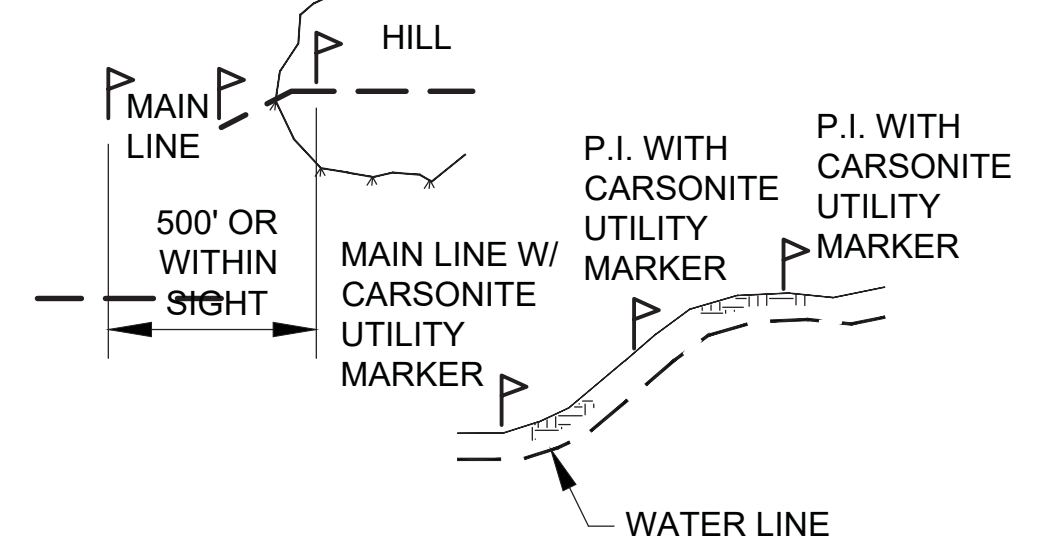
1. WALL THICKNESS FOR CASING SHALL BE MINIMUM 0.50" FOR STEEL CASING, MINIMUM YIELD STRENGTH OF 35,000 PSI.
2. CARRIER PIPE PER TECHNICAL SPECIFICATION 33 11 00.
3. ALL CARRIER PIPE JOINTS SHALL BE RESTRAINED.

**PIPE CASING DETAIL
NOT TO SCALE**



**TYPICAL MARKER POSTS
NOT TO SCALE**

- NOTE:**
1. CARSONITE UTILITY MARKER ON ALL P.I.'S AND GRADE CHANGES.
 2. MAXIMUM DISTANCE BETWEEN CARSONITE UTILITY MARKERS SHALL BE 1500 LF.



New Mexico One Call, Inc.
NMOC
 Call Two Working Days Before You Dig!
 It's Free and It's The Law!
 To Request a Line Locate Dial 811

Rev #	Date	Description

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LOS ALAMOS COUNTY, NM
**NM STATE 4 - 16" TRANSMISSION LINE
 REPLACEMENT
 DETAILS SHEET (3 OF 8)**

MARTIN HOWELL
 NEW MEXICO
 22670
 PROFESSIONAL ENGINEER

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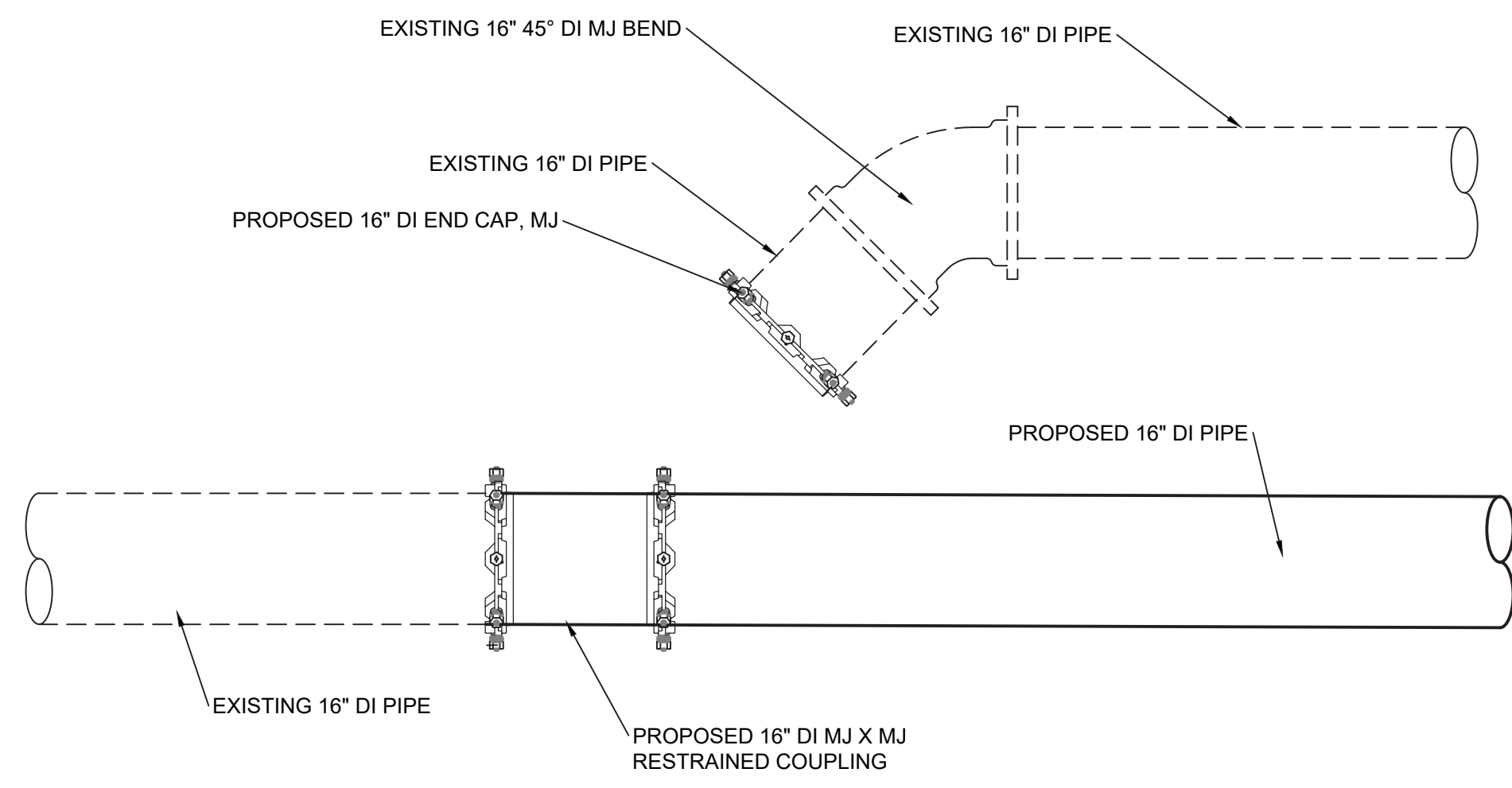
Designed: AC Drawn: JAD Checked: MEH

Date: June 2024
 Scale: Horiz: Vert:

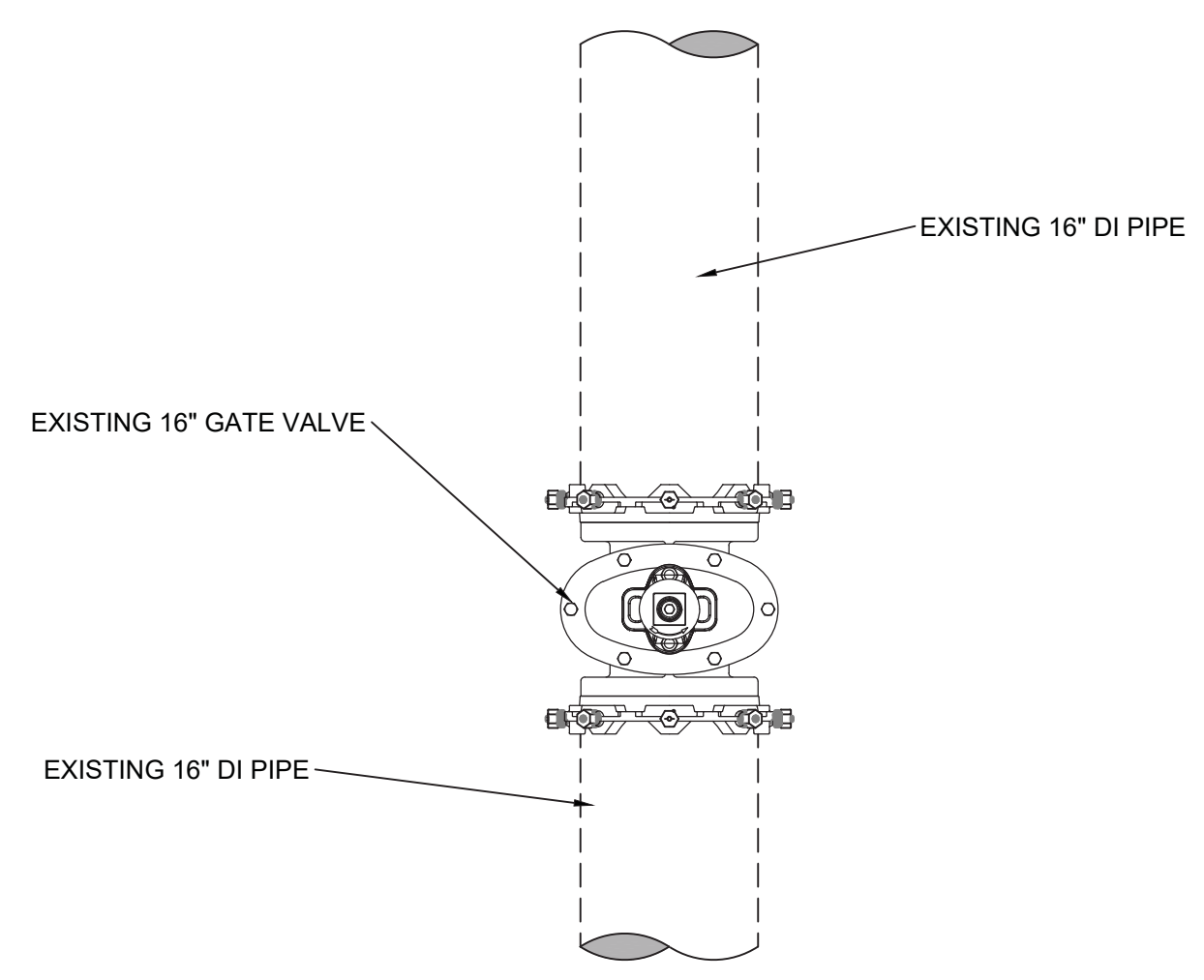
Project No: 6231036
 Sheet: **D-3**

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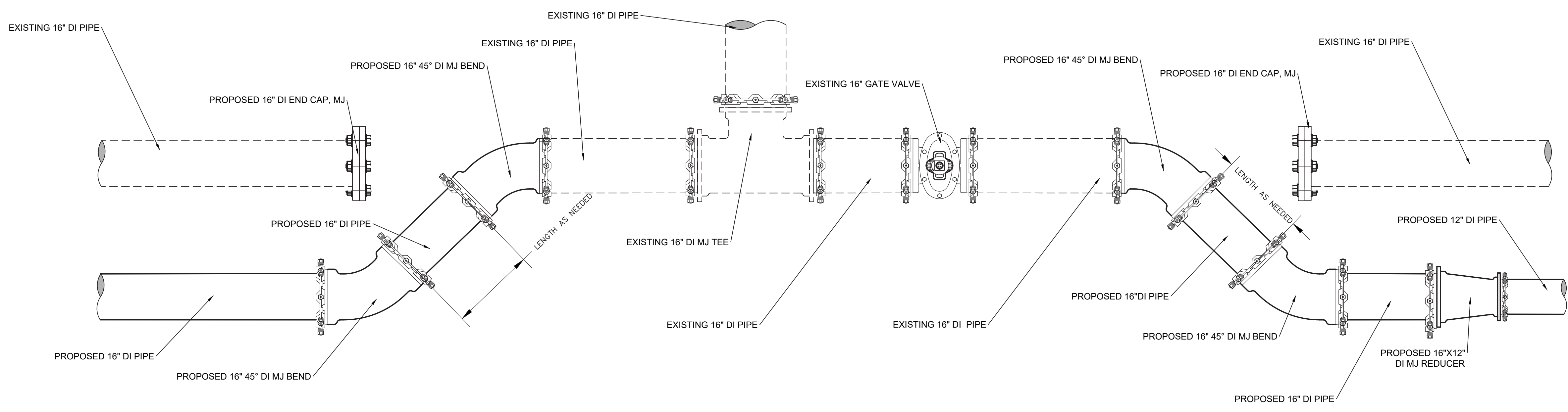


NM 4 NORTH WATERLINE
 CONNECTION DETAIL STA: 0+00
 NOT TO SCALE



NM 4 NORTH WATERLINE
 CONNECTION DETAIL STA: 17+91
 NOT TO SCALE

NM STATE RD 4



To Request a Line Locate Dial 811
 New Mexico state law requires everyone involved in any excavation to provide at least two working days' notice to owners of underground facilities when a dig is planned. All facility owners are then required to mark the locations of any underground lines or take other appropriate measures to protect them.

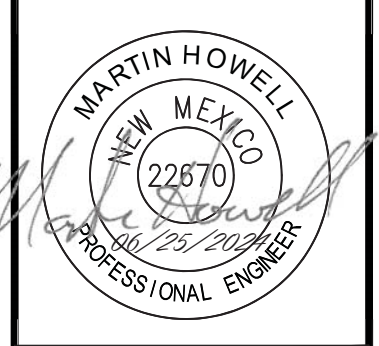
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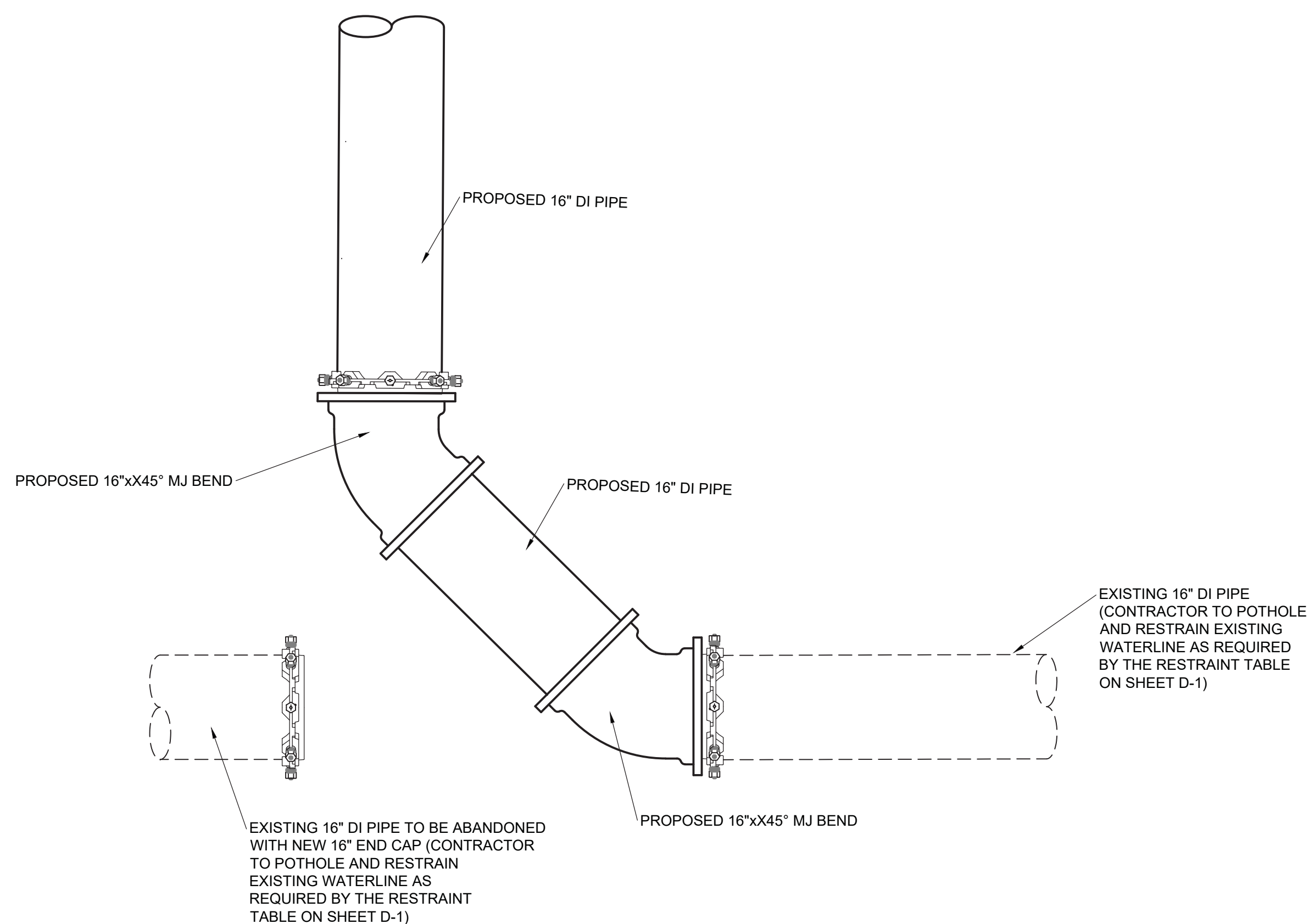
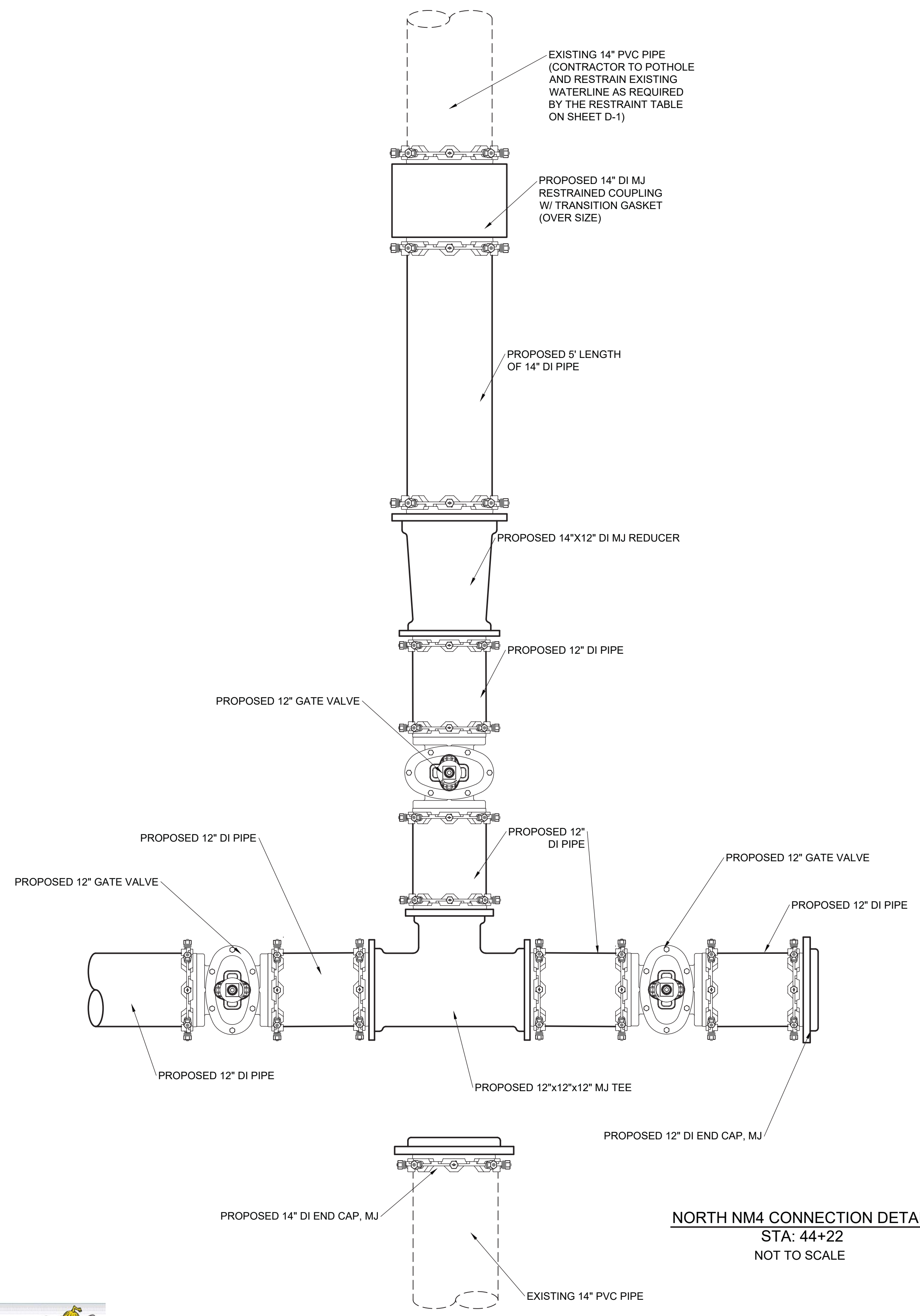
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LOS ALAMOS COUNTY
 LOS ALAMOS COUNTY, NM
 NM STATE 4 - 16" TRANSMISSION LINE
 REPLACEMENT
 DETAILS SHEET (4 OF 8)



THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
AC	JAD	MEH
Date: June 2024		
Scale: Horiz: _____		
Vert: _____		
Project No: 6231036		
Sheet: D-4		



SOUTH NM4 CONNECTION DETAIL
STA: 142+26
NOT TO SCALE

NORTH NM4 CONNECTION DETAIL
STA: 44+22
NOT TO SCALE

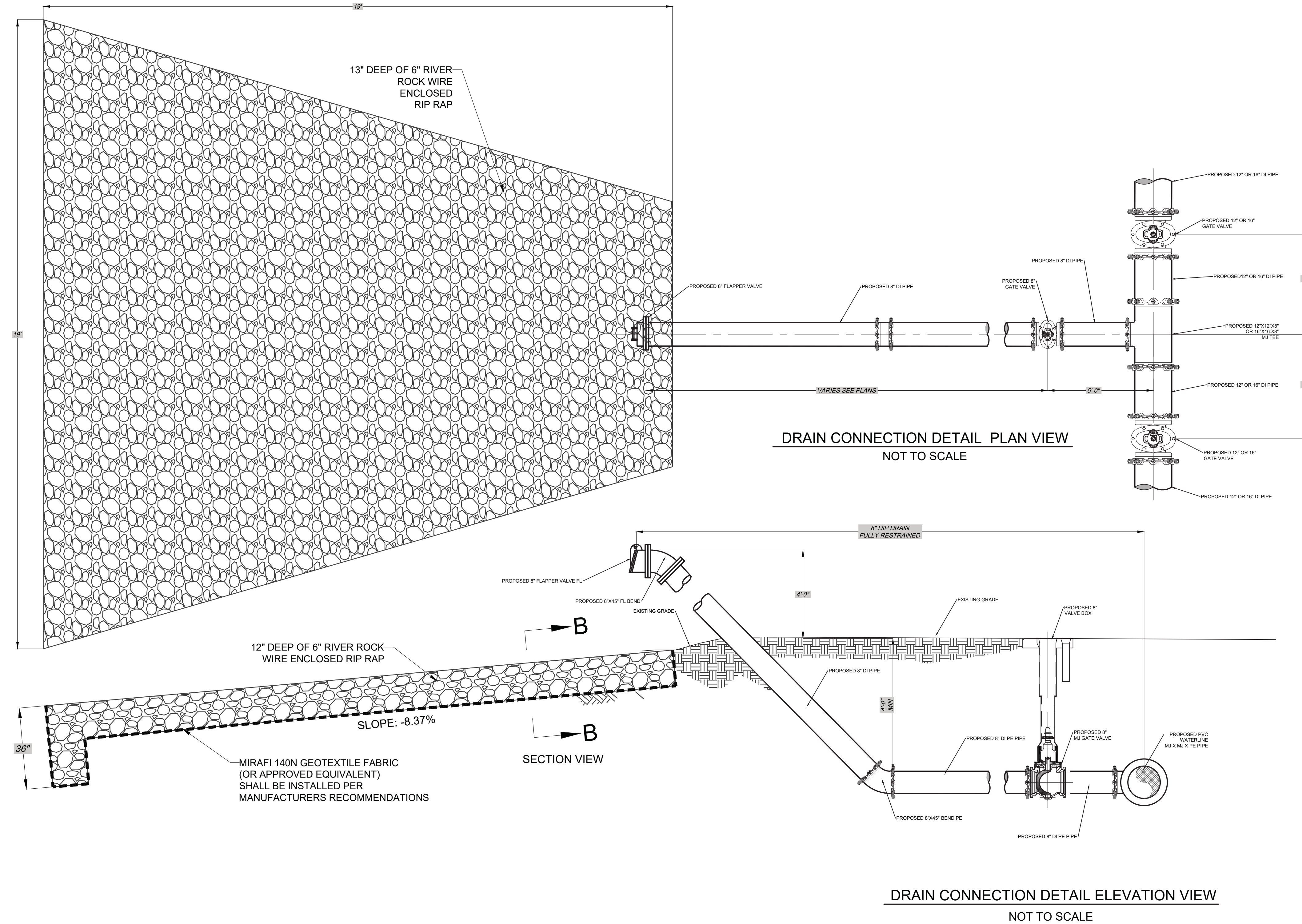
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NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

Description	By	CHKD
	Rev #	Date
<p>SMA SOUDEY, MILLER & ASSOCIATES Engineering • Environmental • Geomatics Serving the Southwest & Rocky Mountains 5454 Yucca Avenue NE, Suite D Albuquerque, NM 87113 Phone (505) 293-0942 Fax (505) 293-4430 www.soudermiller.com</p>		
<p>LOS ALAMOS COUNTY</p> <p>NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT</p> <p>DETAILS SHEET (5 OF 8)</p>		
<p>LOS ALAMOS COUNTY</p> <p>MARTIN HOWELL NEW MEXICO 22670 PROFESSIONAL ENGINEER</p>		
<p>THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED</p>		
Designed	Drawn	Checked
AC	JAD	MEH
Date: June 2024		
Scale: Horiz: Vert:		
Project No: 6231036		
Sheet: D-5		



DRAIN CONNECTION DETAIL PLAN VIEW
NOT TO SCALE

DRAIN CONNECTION DETAIL ELEVATION VIEW
NOT TO SCALE

Rev #	Date	Description

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LOS ALAMOS COUNTY, NM
LOS ALAMOS COUNTY
NM STATE 4 - 16" TRANSMISSION LINE
REPLACEMENT
DETAILS SHEET (6 OF 8)



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Designed AC	Drawn JAD	Checked MEH
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Date: June 2024
Scale: Horiz: Vert:

Project No: 6231036

Sheet: D-6

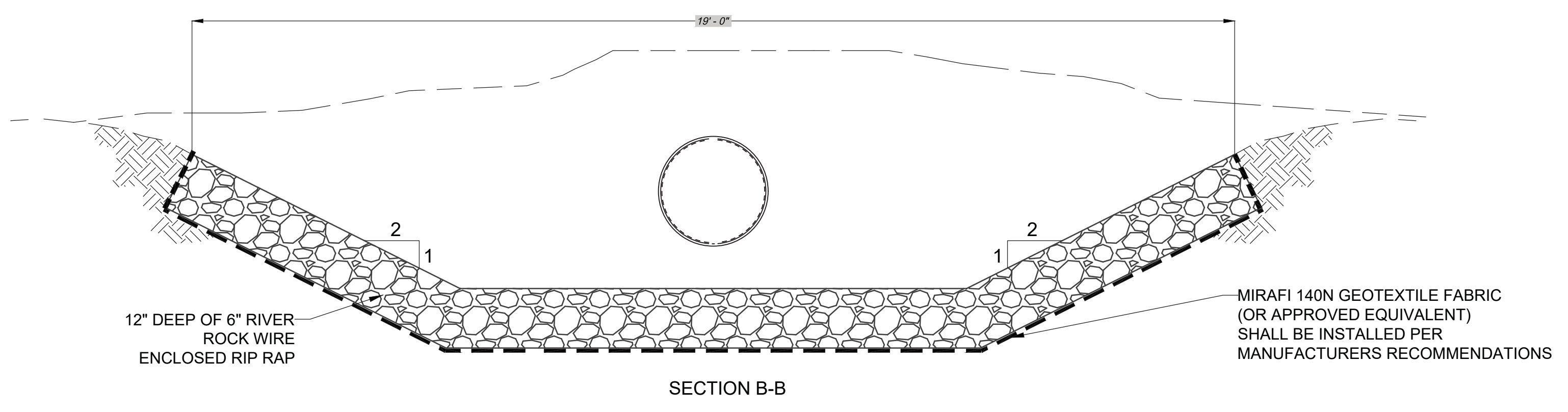
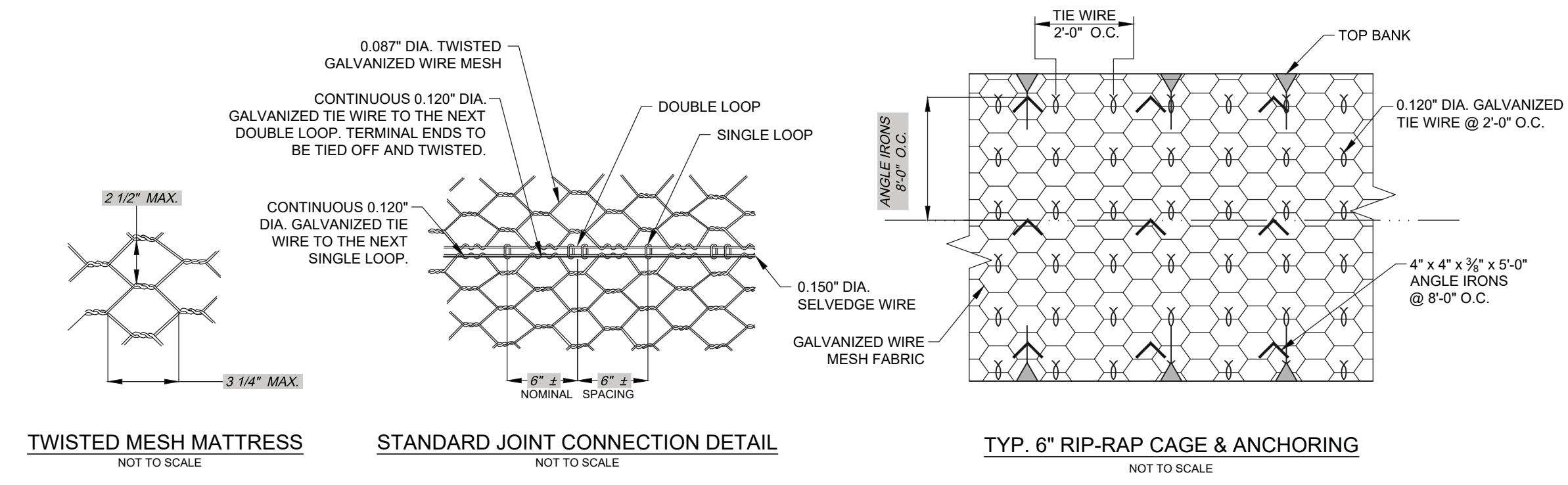
New Mexico One Call, Inc.
NMOC
Call Two Working Days Before You Dig!
It's Free and It's The Law!

To Request a Line Locate Dial 811

New Mexico state law requires everyone involved in any excavation to provide at least two working days' notice to owners of underground facilities when a dig is planned. All facility owners are then required to mark the locations of any underground lines or take other appropriate measures to protect them.

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NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

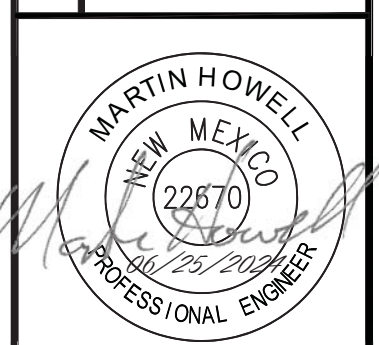


DRAIN DETAILS
NOT TO SCALE

Rev#	Date	Description

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LOS ALAMOS COUNTY, NM
NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT
DETAILS SHEET (7 OF 8)



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Designed	Drawn	Checked
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Date: June 2024
Scale: Horiz:
Vert:
Project No: 6231036
Sheet: D-7

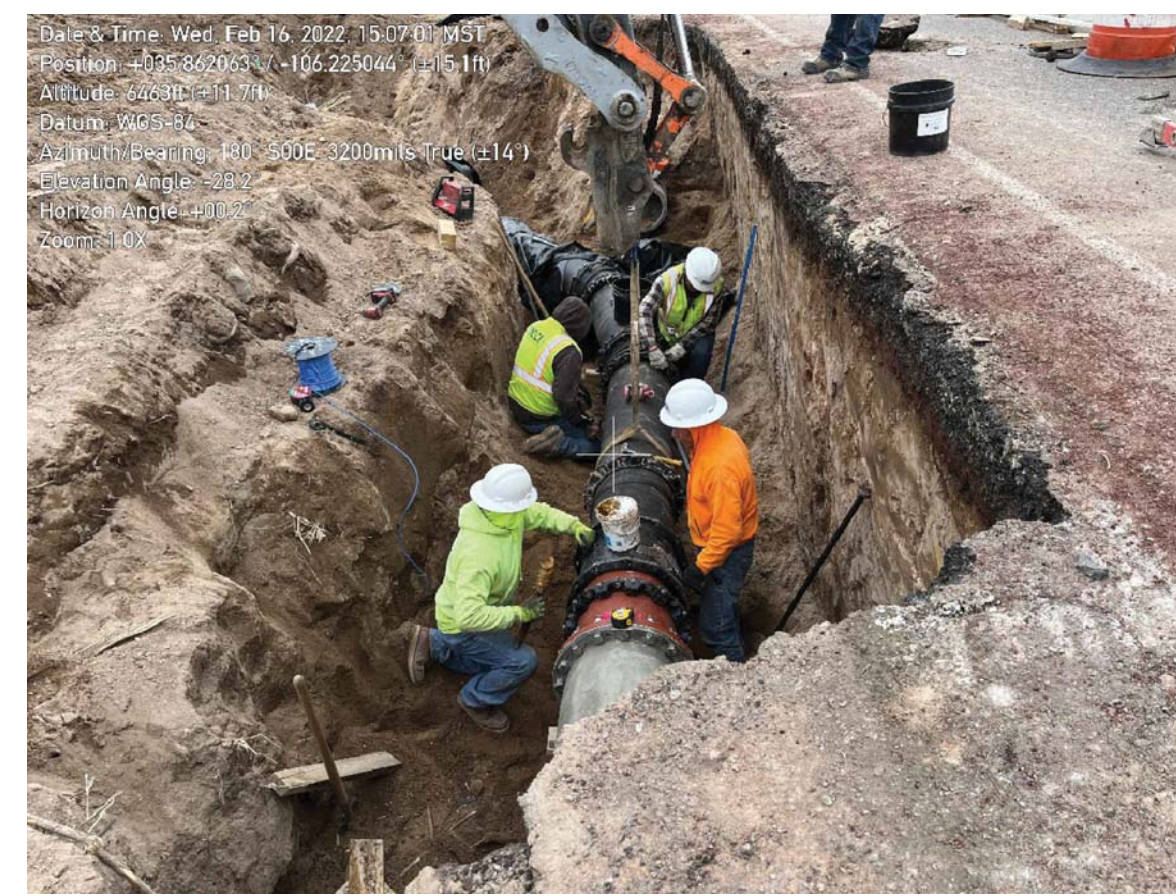
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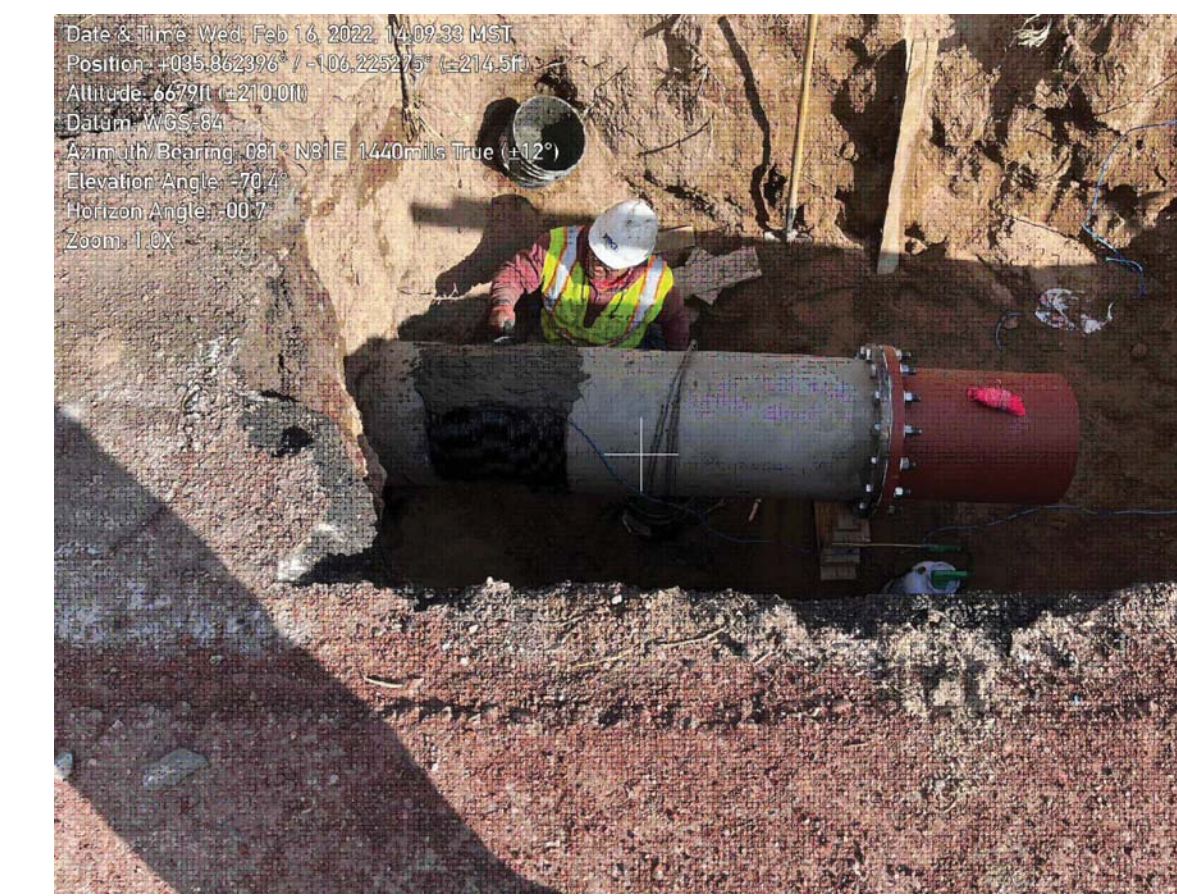
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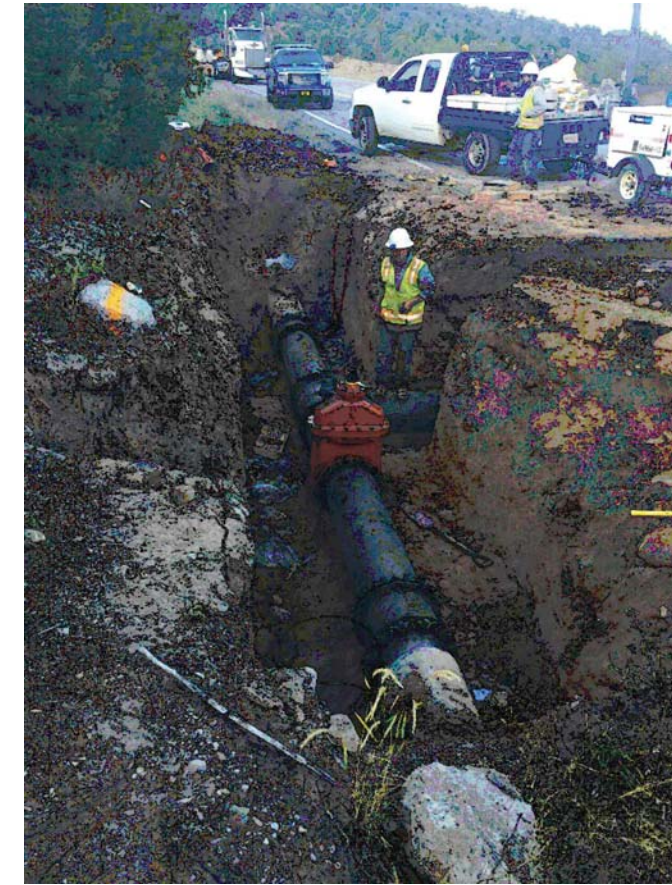
NORTH NM4 EXISTING CONNECTION DETAIL
 STA: 0+00 FACING NORTH
 NOT TO SCALE



NORTH NM4 EXISTING CONNECTION DETAIL
 STA: 0+00 FACING SOUTH
 NOT TO SCALE



NORTH NM4 EXISTING CONNECTION DETAIL
 STA: 0+00
 16" CCP TO DIP TRANSITION FITTING TO
 SALVAGE
 NOT TO SCALE



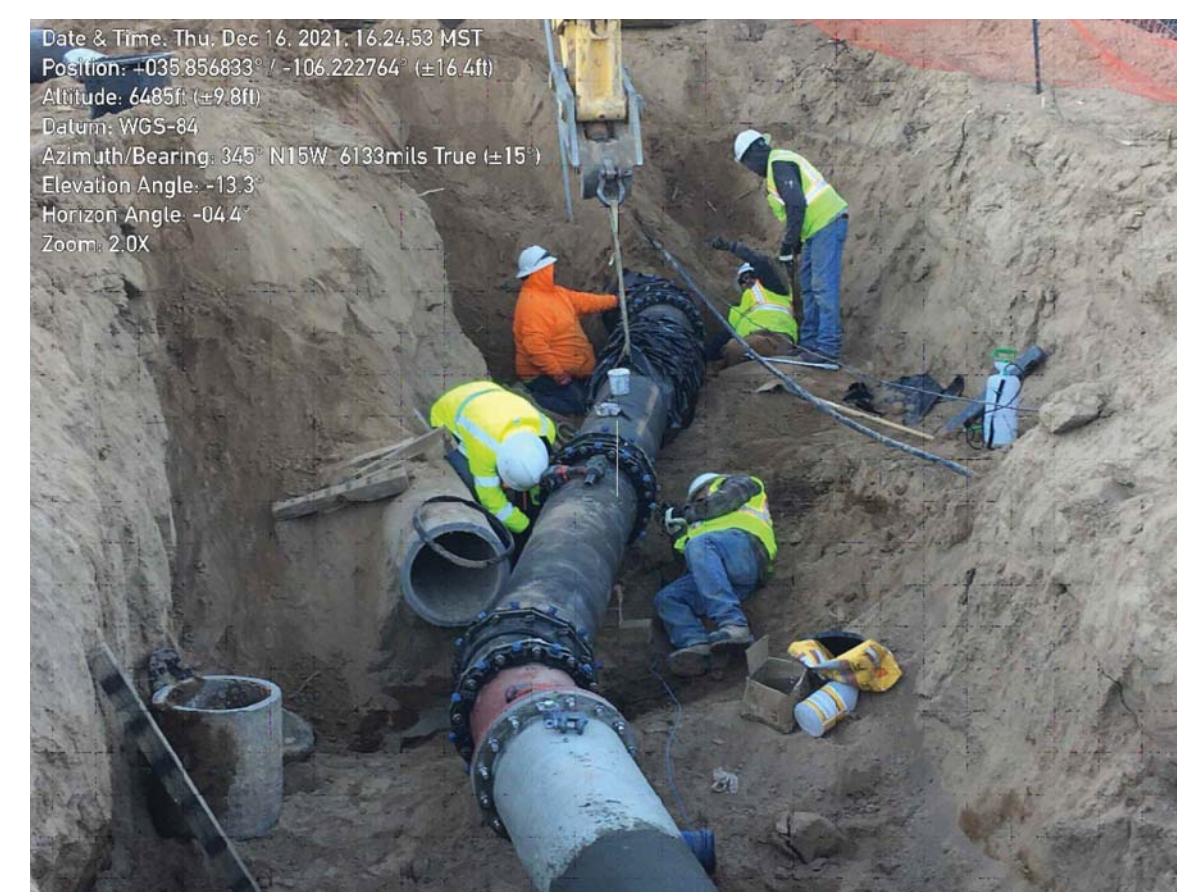
NORTH NM4 EXISTING CONNECTION DETAIL
 STA: 17+50 FACING SOUTH
 NOT TO SCALE



NORTH NM4 EXISTING CONNECTION DETAIL
 STA: 17+50 FACING WEST
 NOT TO SCALE



SOUTH NM4 EXISTING CONNECTION DETAIL
 STA: 0+00 FACING NORTH
 NOT TO SCALE



SOUTH NM4 EXISTING CONNECTION DETAIL
 STA: 0+00 FACING NORTH
 NOT TO SCALE



SOUTH NM4 EXISTING CONNECTION DETAIL
 STA: 0+00
 16" CCP TO DIP TRANSITION FITTING TO
 SALVAGE
 NOT TO SCALE

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LOS ALAMOS COUNTY, NM
 LOS ALAMOS COUNTY
 NM STATE 4 - 16" TRANSMISSION LINE
 REPLACEMENT
 EXISTING CONDITIONS



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AC	JAD	MEH

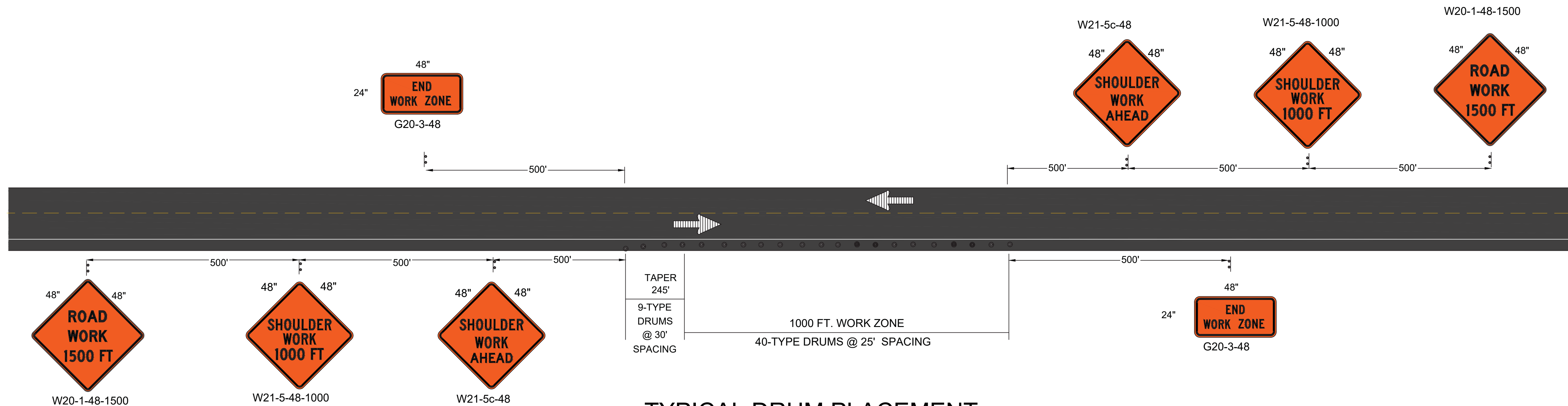
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 Scale: Horiz:
 Vert:
 Project No: 6231036

Sheet: **D-8**

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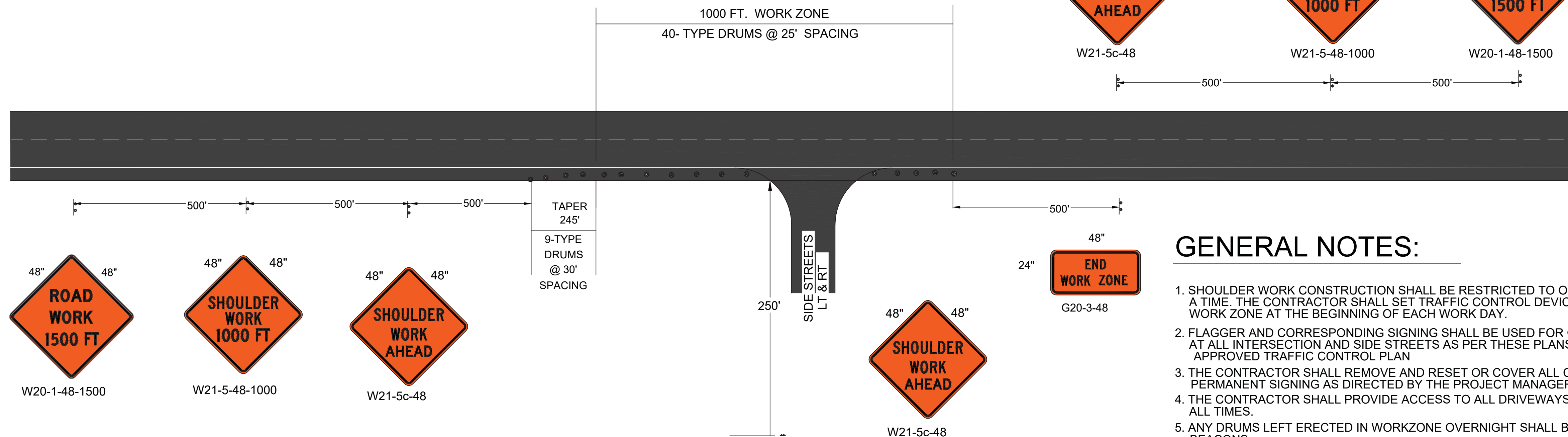
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TYPICAL DRUM PLACEMENT
SHOULDER WORK (LEFT OR RIGHT) MAX. 2 SETUPS

CHANNELIZATION DEVICES TYPE DRUMS
TOTAL OF 49 DRUMS REQUIRED



INTERSECTION SIGNING

ONE INTERSECTION SETUP AT ONE TIME
CHANNELIZATION DEVICES TYPE DRUMS
TOTAL OF 49 DRUMS REQUIRED

GENERAL NOTES:

1. SHOULDER WORK CONSTRUCTION SHALL BE RESTRICTED TO ONE SIDE AT A TIME. THE CONTRACTOR SHALL SET TRAFFIC CONTROL DEVICES TO DEFINE WORK ZONE AT THE BEGINNING OF EACH WORK DAY.
2. FLAGGER AND CORRESPONDING SIGNING SHALL BE USED FOR CONSTRUCTION AT ALL INTERSECTION AND SIDE STREETS AS PER THESE PLANS AND APPROVED TRAFFIC CONTROL PLAN
3. THE CONTRACTOR SHALL REMOVE AND RESET OR COVER ALL CONFLICTING PERMANENT SIGNING AS DIRECTED BY THE PROJECT MANAGER.
4. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL DRIVEWAYS AND TURNOUTS AT ALL TIMES.
5. ANY DRUMS LEFT ERECTED IN WORKZONE OVERNIGHT SHALL BE EQUIPPED WITH BEACONS.
6. SIGN NUMBERS INDICATE STANDARD MUTCD CONFIGURATION SIGNS ALL TIMES.

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Serving the Southwest & Rocky Mountains
3500 Sedona Hills Parkway
Las Cruces, NM 88011
Phone (575) 647-0799 Toll Free (800) 647-0799 Fax (575) 647-0680
www.soudermiller.com

LOS ALAMOS COUNTY, NM
NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT SHOULDER WORK DETAIL

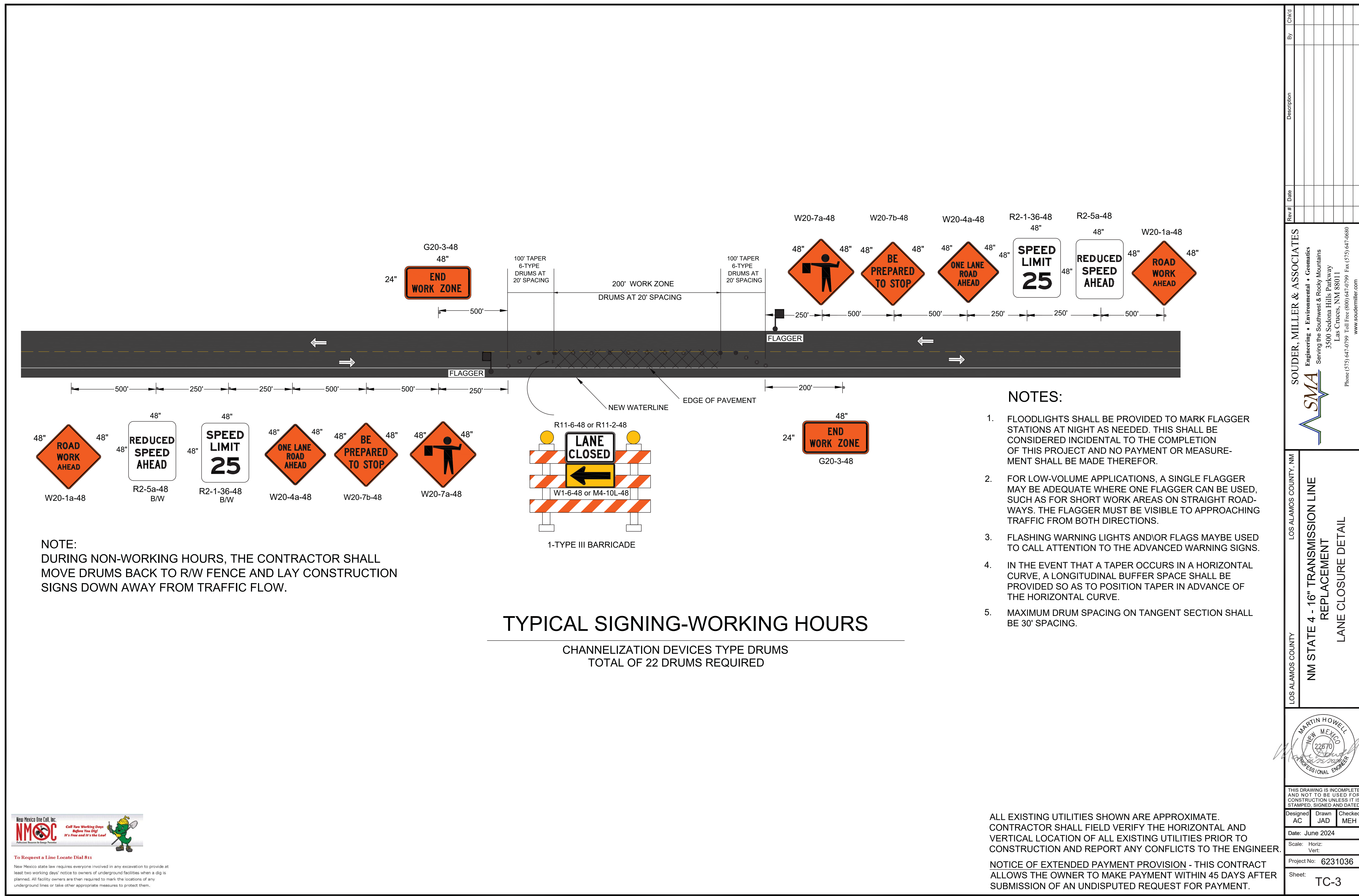


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Date: June 2024		
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Project No: 6231036		
Sheet: TC-2		



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NOTE:
DURING NON-WORKING HOURS, THE CONTRACTOR SHALL MOVE DRUMS BACK TO R/W FENCE AND LAY CONSTRUCTION SIGNS DOWN AWAY FROM TRAFFIC FLOW.

- NOTES:**
1. FLOODLIGHTS SHALL BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED. THIS SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THIS PROJECT AND NO PAYMENT OR MEASUREMENT SHALL BE MADE THEREFOR.
 2. FOR LOW-VOLUME APPLICATIONS, A SINGLE FLAGGER MAY BE ADEQUATE WHERE ONE FLAGGER CAN BE USED, SUCH AS FOR SHORT WORK AREAS ON STRAIGHT ROADWAYS. THE FLAGGER MUST BE VISIBLE TO APPROACHING TRAFFIC FROM BOTH DIRECTIONS.
 3. FLASHING WARNING LIGHTS AND/OR FLAGS MAYBE USED TO CALL ATTENTION TO THE ADVANCED WARNING SIGNS.
 4. IN THE EVENT THAT A TAPER OCCURS IN A HORIZONTAL CURVE, A LONGITUDINAL BUFFER SPACE SHALL BE PROVIDED SO AS TO POSITION TAPER IN ADVANCE OF THE HORIZONTAL CURVE.
 5. MAXIMUM DRUM SPACING ON TANGENT SECTION SHALL BE 30' SPACING.

TYPICAL SIGNING-WORKING HOURS
CHANNELIZATION DEVICES TYPE DRUMS
TOTAL OF 22 DRUMS REQUIRED



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LOS ALAMOS COUNTY, NMI NM STATE 4 - 16" TRANSMISSION LINE REPLACEMENT LANE CLOSURE DETAIL												
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AC	JAD	MEH										