Regina MDWCA Naranjo Creek Rd Water System Improvements Project September 2025

Environmental Assessment

Appendix A: Project Plan Sets

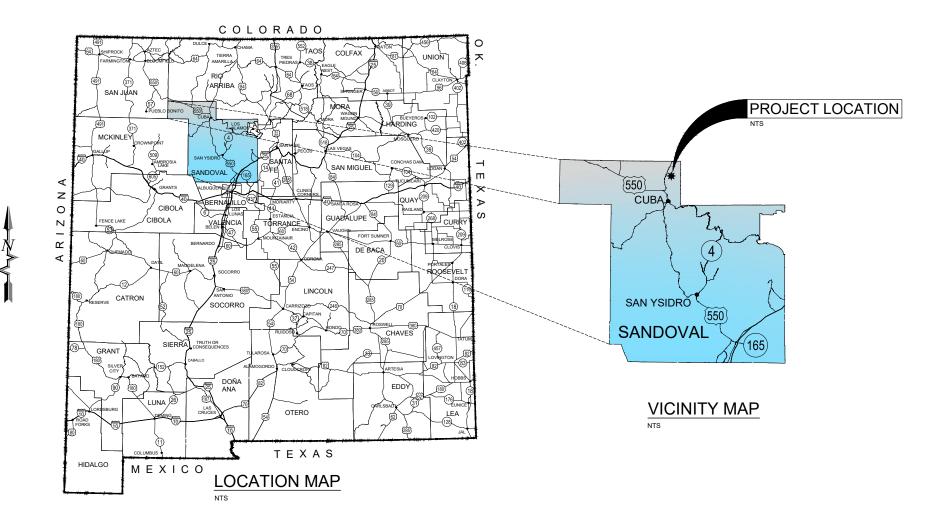
REGINA MDWCA

NARANJO CREEK WATERLINE PROJECT **CONSTRUCTION PLANS**

SANDOVAL COUNTY, REGINA, NM

December 2024

PROJECT DESCRIPTION: INSTALL APPROXIMATELY 13,800 LF 6" PVC DR18 WATERLINE AND ASSOCIATED APPURTENANCES



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

PROJECT MANAGER

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.



GENERAL NOTES

SOUDER, MILLER AND ASSOCIATES SHALL HEREINAFTER BE KNOWN AS THE ENGINEER. THERE WILL BE A PERSON PROVIDED BY THE ENGINEER THAT WILL ACT AS A CONSTRUCTION OBSERVER WHO WILL BE THE CONTACT BETWEEN THE CONTRACTOR AND

CONSTRUCTION REQUIREMENTS

- CONTACT "NEW MEXICO ONE CALL" AT 1-800-321-2537, THREE (3) WORKING DAYS IN ADVANCE OF CONSTRUCTION FOR UTILITY DEMARCATION.
- ALL WATERLINES SHALL BE INSTALLED TO A MINIMUM COVER OF FORTY-FIGHT (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
- THE CONTRACTOR SHALL STAMP THE CONCRETE OF EACH MANHOLE COLLAR AND VALVE COLLAR WITH THE LINDERLYING PIPE THE CONTRACTOR SHALLS TAMP THE CONCRETE OF EACH MANHOLE COLLAR AND VALVE COLLAR WITH THE ONDERTRING FIRE 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.

 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
- CONTRACTOR MUST CONTACT AND COORDINATE AS NECESSARY WITH LOCAL ELECTRIC SERVICE PROVIDER REGARDING REQUIREMENTS FOR PIPELINE CONSTRUCTION WITHIN 20 (TWENTY) FEET OF ELECTRIC POLES.

- 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 TH CONTRACT DOCUMENTS
- CUNITACL DUCUMENTS.
 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.
 NO TIME EXTENSIONS WILL BE ALLOWED DUE TO THE NORMAL PERMITTING PROCESSES.
- ANY FINES ASSOCIATED WITH NOT OBTAINING NECESSARY PERMITS ARE THE RESPONSIBILITTY OF THE CONTRACTOR
- 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
- 12. 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

TRAFFIC CONTROL

THE CONTRACTOR SHALL MAINTAIN THE PROPER TRAFFIC CONTROL DEVICES DURING CONSTRUCTION IN COMPLIANCE WITH TH 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

- 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.
- 15. UTILITIES SHOWN IN THESE CONSTRUCTION PLANS ARE SHOWN IN THEIR APPROXIMATE LOCATION ONLY. AND SHALL NOT BE OTITITIES SHOWN IN THESE CONTRACTOR. FIELD MARKS MADE BY THE INDIVIDUAL UTILITIES SHALL WOUND FROM ANY 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 ONSITE.
- 16. THE EXISTING UTILITIES, STRUCTURES, AND CULVERTS SHOWN ON THESE PLANS ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL PERFORM A FIFLD 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 WATERLINE WHILE CREATE OF HIGH TOWNSTELDS, THE CONTINUE OF SHALL NOT IT THE ENGINEER'S OF THAT THE AUGMINIST DE 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.

 17. LOCATIONS OF EXISTING WATERLINES SHOWN IN THESE DRAWINGS ARE APPROXIMATE BASED ON THE BEST INFORMATION AVAILABLE. DUE TO THE UNCERTAIN NATURE OF THE WATERLINE LOCATIONS, ANY CONCRETE ENCASEMENT THAT MAY BE REQUIRED IS NOT SHOWN IN THESE DRAWINGS, BUT WILL BE REQUIRED AS OUTLINED IN THE NMSSPWC
- 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.
- 19. THE EXPLORATORY DIGGING BID ITEM IS ONLY FOR EXPLORATORY DIGGING REQUIRED TO DETERMINE THE LOCATION OF THE OWNER'S UTILITY LINES WHEN THE OWNER CANNOT DETERMINE THE LOCATION OF THEIR LINES, O. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE ENGINEER PRIOR TO COMMENCEMENT. THIS BID ITEM SHALL NOT BE USED FOR EXPLORATORY DIGGING FOR OTHER UTILITIES, WHICH SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OWNER, ENGINEER AND POWER COMPANY TO EXTEND ELECTRICAL SERVICE TO THE WELL AND METERING HOUSE. THE POWER EXTENSION WILL BE PAID FOR BY THE CONTRACTOR UTILIZING THE ELECTRICAL EXTENSION ALLOWANCE. THE CONTRACTOR SHALL BEGIN THIS COORDINATION EFFORT WITH SUFFICIENT TIME IN ADVANCE OF WELL AND METERING HOUSE CONSTRUCTION TO AVOID DELAYS. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING ELECTRICAL SERVICES THROUGHOUT DEMOLITION AND CONSTRUCTION

- EXISTING WATER SYSTEM

 21. 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. ALL LOCAL RESIDENTS AND BUSINESSES SHALL BE CONTACTED BEFORE ANY DISCONNECTION OF WATER SERVICE, ANY ITERRUPTION OF WATER SERVICE SHALL BE KEPT TO THE MINIMUM LENGTH OF TIME POSSIBLE AND OCCUR DURING OFF-PEAK
- 22. 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.

 23. ALL WATER SHUTOFFS MUST BE COORDINATED WITH THE OWNER'S REPRESENTATIVE A MINIMUM OF SEVEN (7) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. CONNECTION TO THE NEW POTABLE WATERLINE SHALL NOT TAKE MORE THAN FIGHT (8) HOURS. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED PROPERTY OWNERS OF THE PENDING OLITAGE ONE (1) WEEK
- PRIOR TO THE OUTAGE AND AGAIN ONE (1) DAY PRIOR TO THE OUTAGE.

 24. 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
- 25. CONTRACTOR SHALL VERIFY DEPTH AND SIZE OF CULVERT AT IRRIGATION AND DRAINAGE CROSSINGS PRIOR TO CONSTRUCTION.

- PROTECTION OF EXISTING CONDITIONS

 26. 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.

 27. 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 COMPACTION IN AREAS WHERE THE USE OF HEAVIER EQUIPMENT COULD DAMAGE UNDERGROUND UTILITIES OR PERMANENTLY DAMAGE
- 28. 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

- IE THERE IS A CONFLICT RETWEEN 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,
- 30. 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 THROUGHC 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

- 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
- 32. UNSUITABLE MATERIAL FROM SITE GRADING AND REMOVAL OPERATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR AND CONSIDERED INCIDENTAL.

 33. 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 SPECIFICATION FOR THIS PROJECT. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, IN WRITING, OF THE DETAILS OF THE DISPOSAL
- 34. 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, FTC. SHALL BE SALVAGED BACK TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE OWNER
- 35. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STREETS FREE AND CLEAR OF ANY DEBRIS THAT IS TRACKED TO AND

SITE ACCESS AND PROTECTION

- THE CONTRACTOR IS RESPONSIBLE FOR SECURING A LOCATION FOR THE STAGING AND STORAGE OF FOUIPMENT AND SUPPLIES
- THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE THEFT, LOSS, OR DAMAGE OF ANY CONTRACTOR EQUIPMENT OR SUPPLIES.

 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

- IN THE EVENT THE CONTRACTOR ENCOUNTERS ITEMS OF ENVIRONMENTAL CUITURAL 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.
- 39. 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, INCLUDING TEMPORARY EROSION CONTROL PROVISIONS, IS A PREREQUISITE FOR PERIODIC AND FINAL
- 41. SITE RESTORATION SEEDING OR PLANTING OF ANY DISTURBED AREAS SHALL FOLLOW NPDES STANDARDS. TOPSOIL EXCAVATION

CONSTRUCTION STANDARDS

- 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. THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
- B. NEW MEXICO ENVIRONMENT DEPARTMENT'S RECOMMENDED STANDARDS FOR WATER AND WASTEWATER FACILITIES
- C. WHERE NOT COVERED BY LOCAL ORDINANCE, THE "INTERNATIONAL BUILDING CODE" LATEST EDITION (IBC) FOR APPLICABLE WORK.

 D. OCCUPATIONAL SAFETY HEALTH ADMINISTRATION REGULATIONS FOR TRENCHING, SHORING & EXCAVATION.
- E. 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.
 43. ALL COMPONENTS, MATERIALS AND TREATMENT CHEMICALS THAT COME INTO CONTACT WITH DRINKING WATER SHALL BE CERTIFIED FOR CONFORMANCE TO ANSI/NSE STANDARD 60 OR 61. AS APPLICABLE.

CONSTRUCTION LIMITS

- THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE CONSTRUCTION LIMITS OF THE PROJECT AND SHALL IN NO WAY ENCROACH 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 SET BACK FROM: THE PROPERTY LINE IN ACCORDANCE WITH THE INTERNATION.

 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.

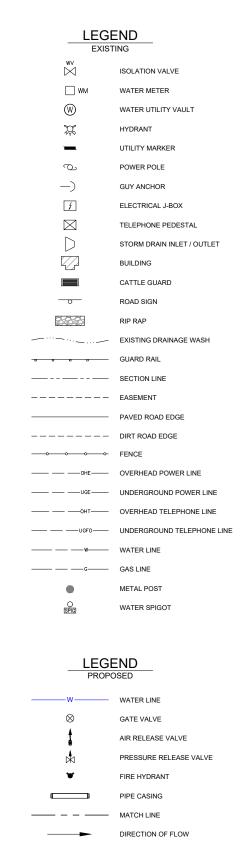
 THE LIMITS OF CONSTRUCTION AND LOCATIONS OF THE CONTRACTOR'S STAGING AREAS SHALL BE IDENTIFIED BY THE
- CONTRACTOR AND APPROVED BY THE ENGINEER, THE LIMITS OF CONSTRUCTION SHALL BE CLEARLY DELINEATED AND SHALL BE THE MINIMUM REQUIRED TO MAINTAIN ALL WORKERS IN A SAFE CONDITION, TO PROVIDE ACCESS, AND TO MEET OSHA

- 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 GASQUINE, 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.
 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 REGULATIONS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFE HANDLING OF CONSTRUCTION EQUIPMENT AND MATERIALS TO AND FROM THE STAGING/STORAGE AREA AND FOR SITE SECURITY. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND NO ADDITIONAL COMPENSATION SHALL BE MADE THEREFOR.
- 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.

 49. PRIOR TO AND DURING CONSTRUCTION, ALL ACCESS ROADS SHALL BE SERVICEABLE AND MAINTAINED FOR FIRE PROTECTION
- AND EMERGENCY VEHICLE ACCESS.

- 50. 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.
 51. THE CONTRACTOR IS REQUIRED TO PROVIDE DUST AND EROSION CONTROL PROTECTION, AS A PART OF GRADING WORK,
- THROUGHOUT CONSTRUCTION IN ACCORDANCE W/ 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.

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



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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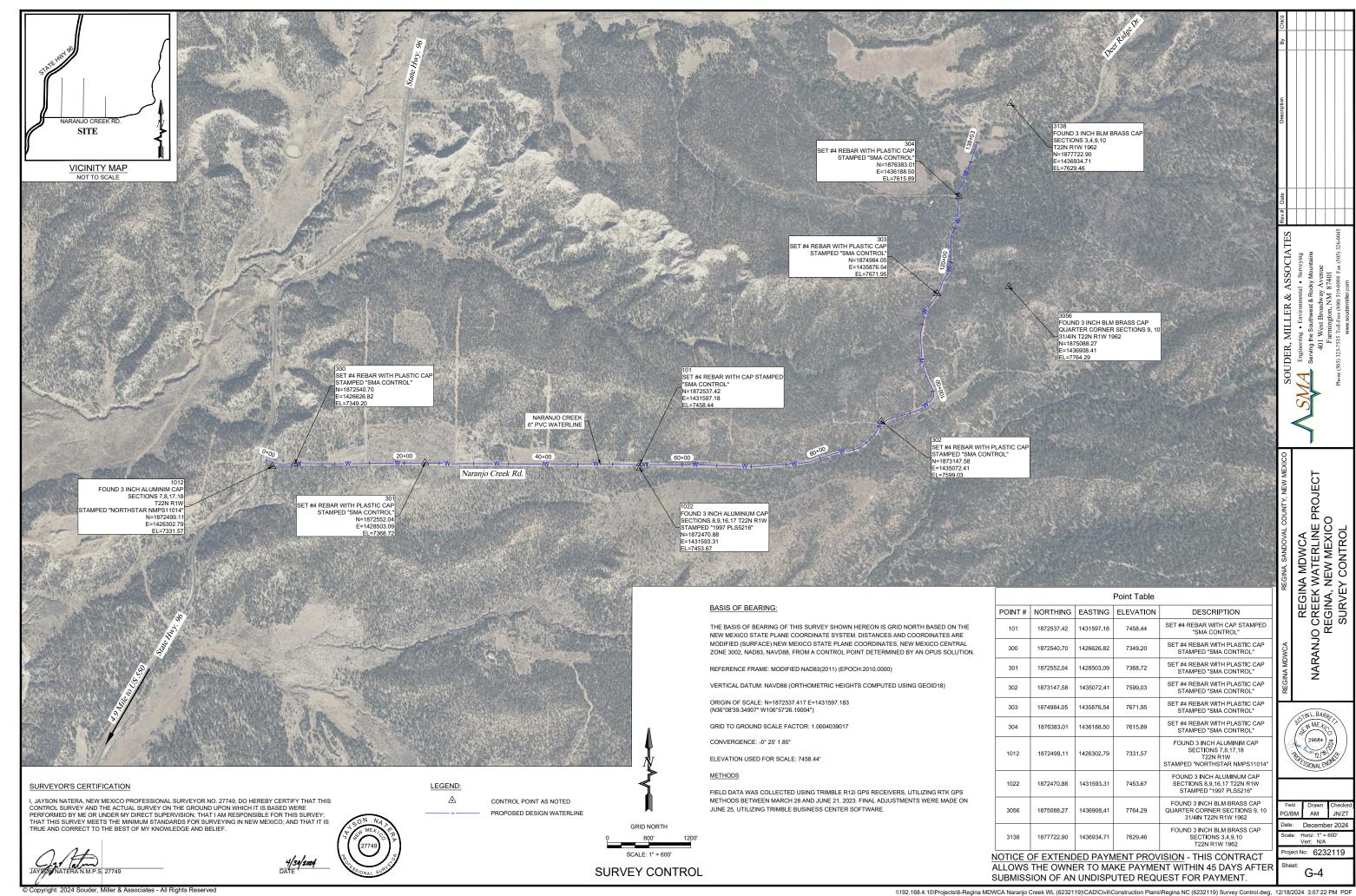
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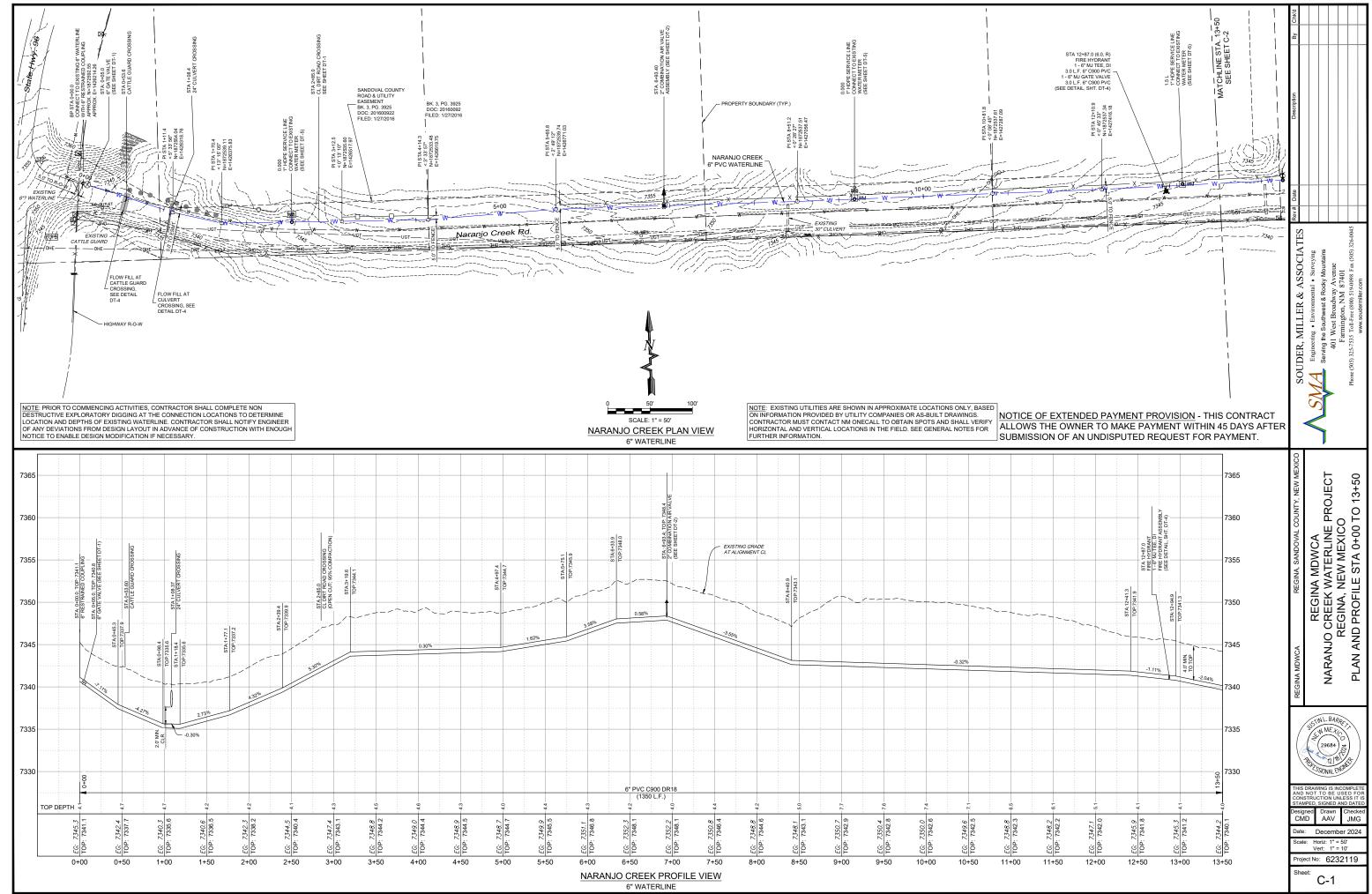
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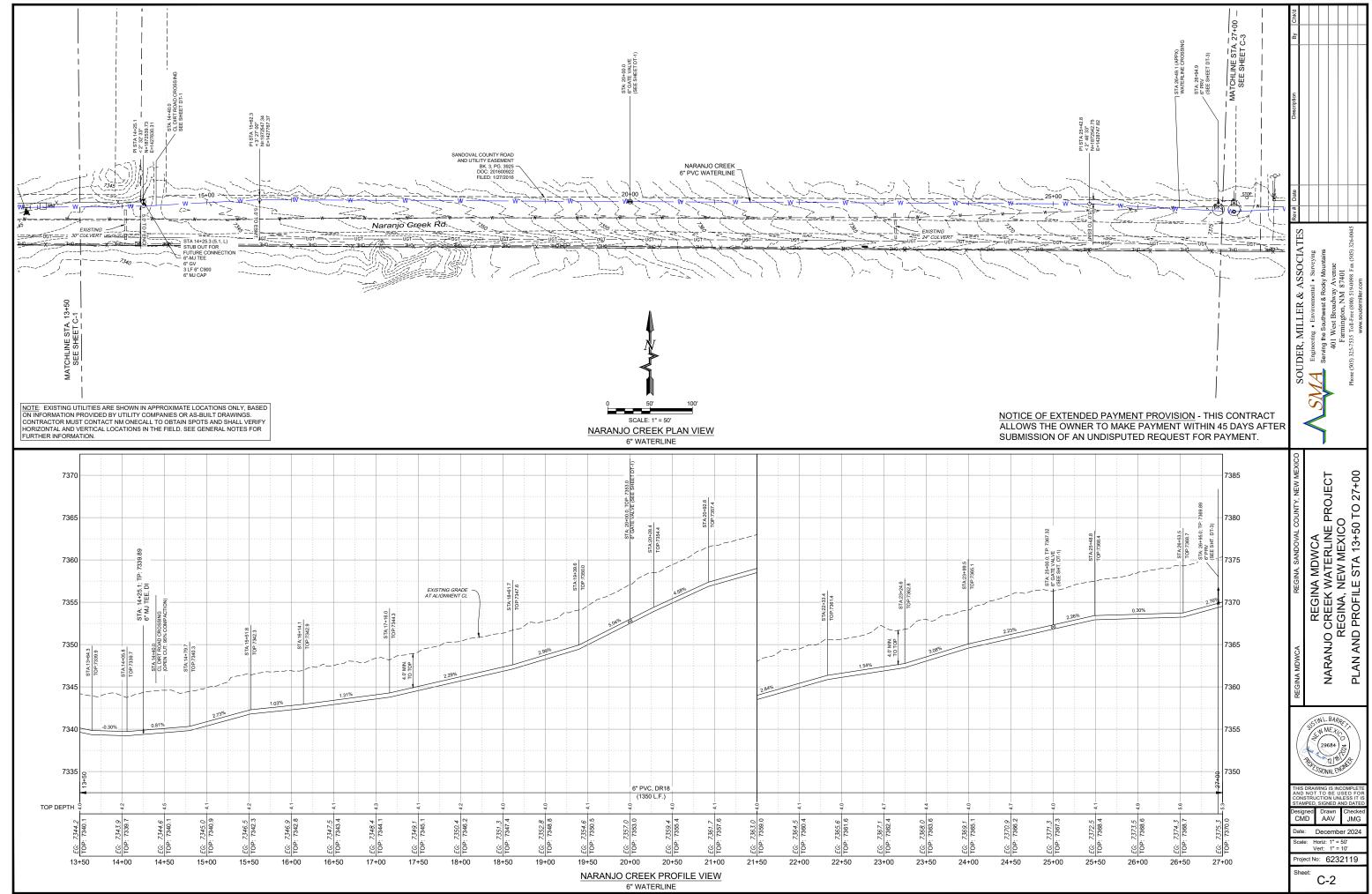
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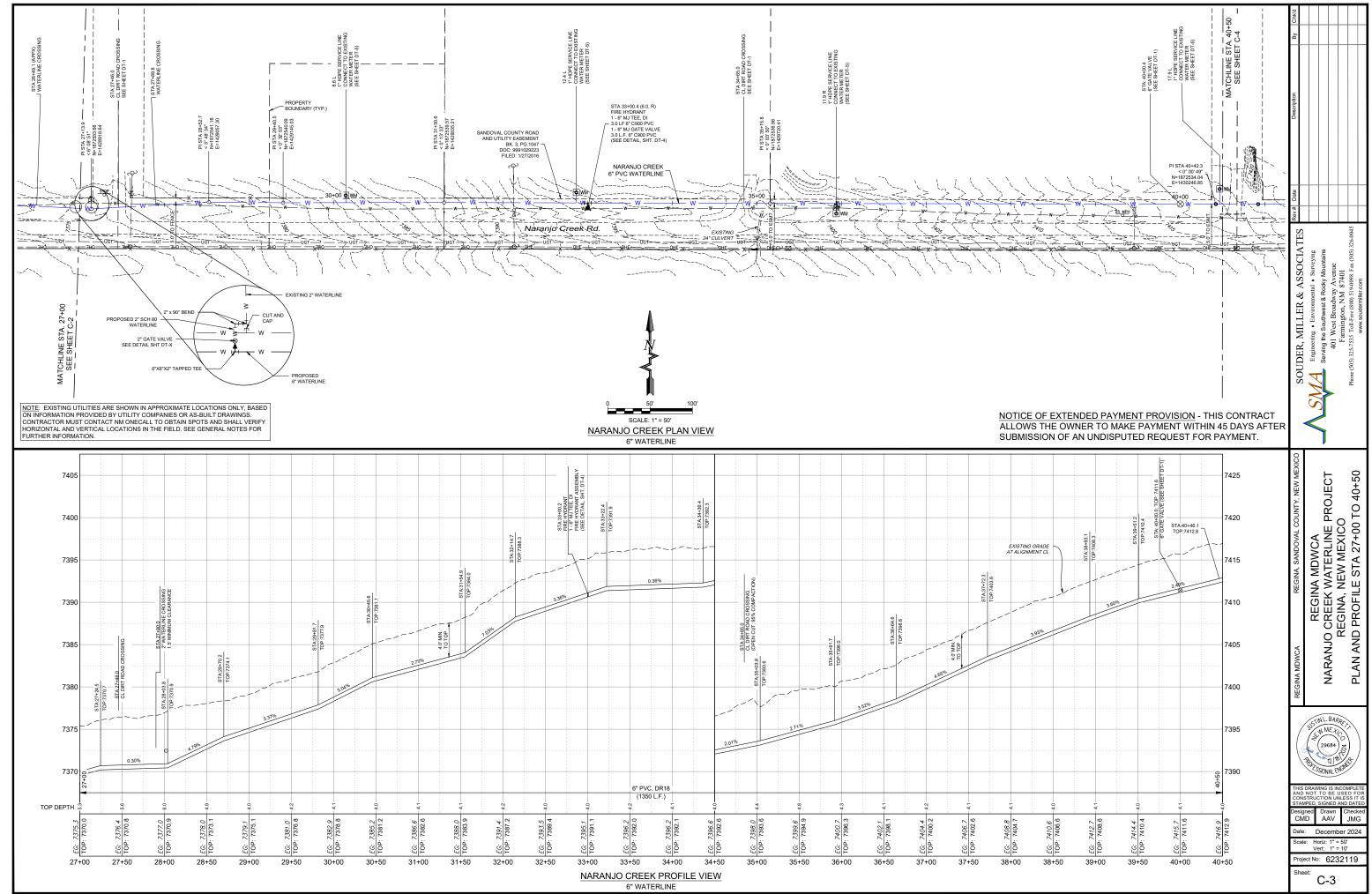
REGINA MDWCA RANJO CREEK WATERLINE PROJ REGINA, NEW MEXICO GENERAL NOTES AND LEGEND

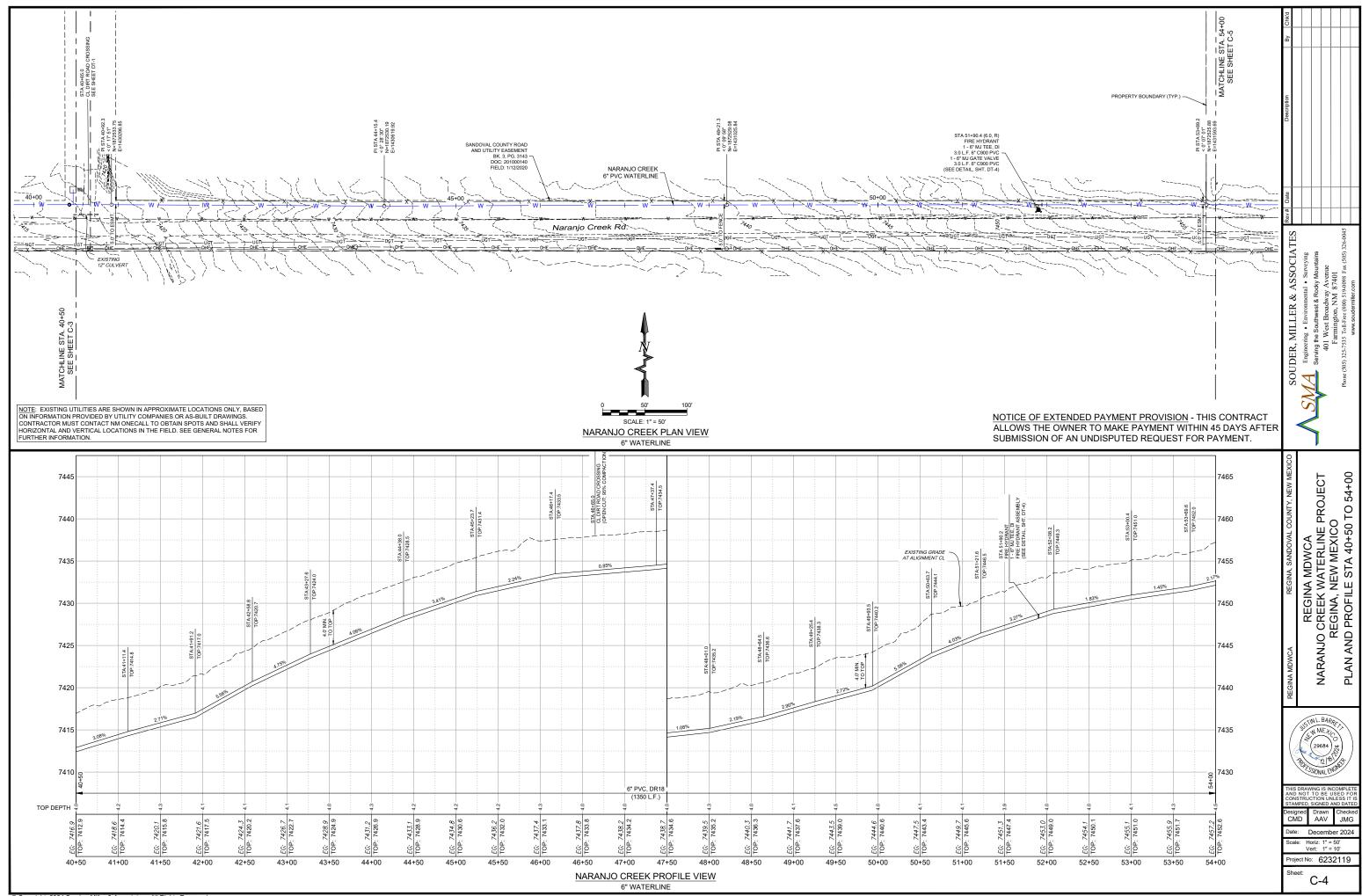


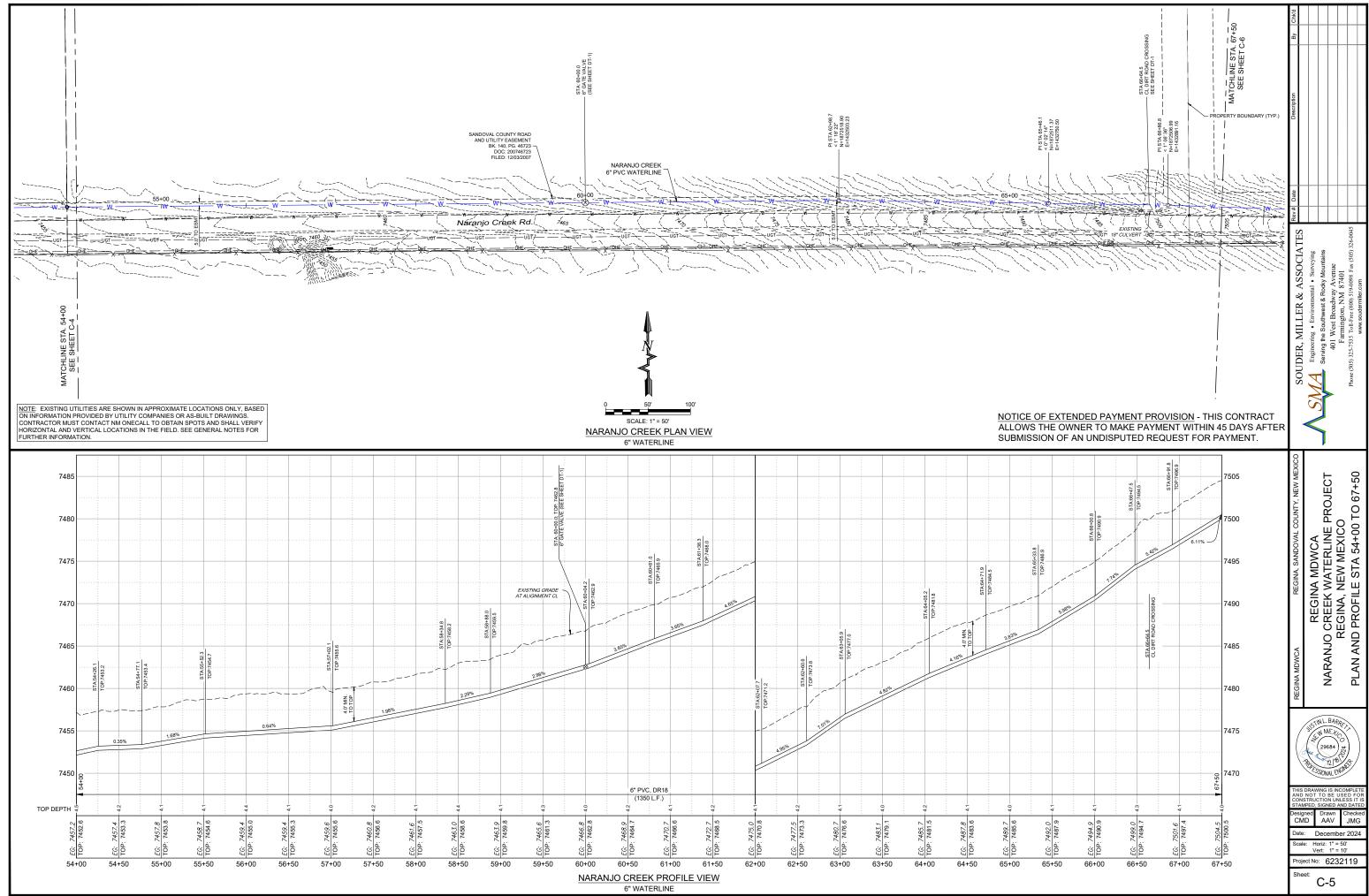


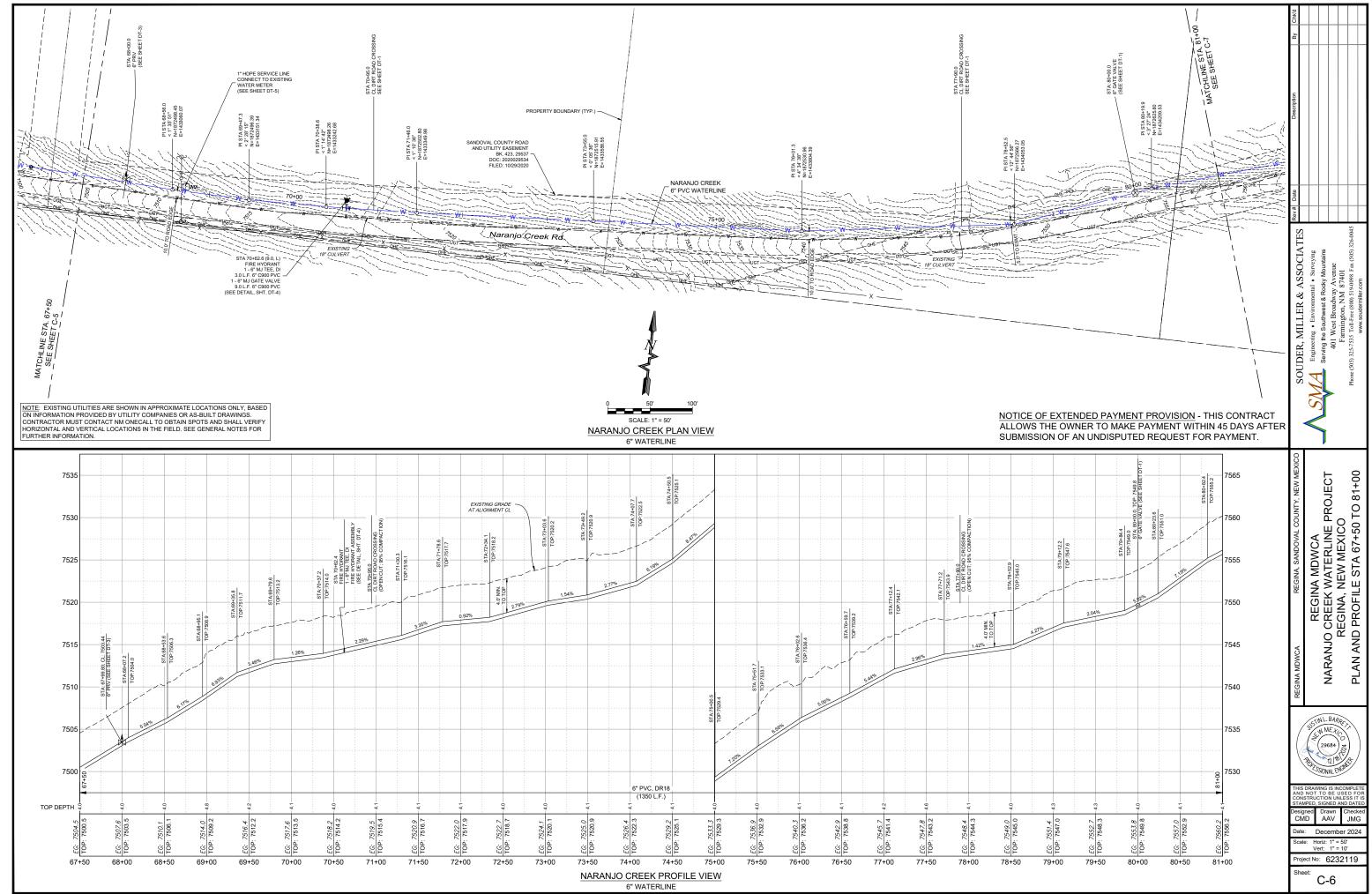


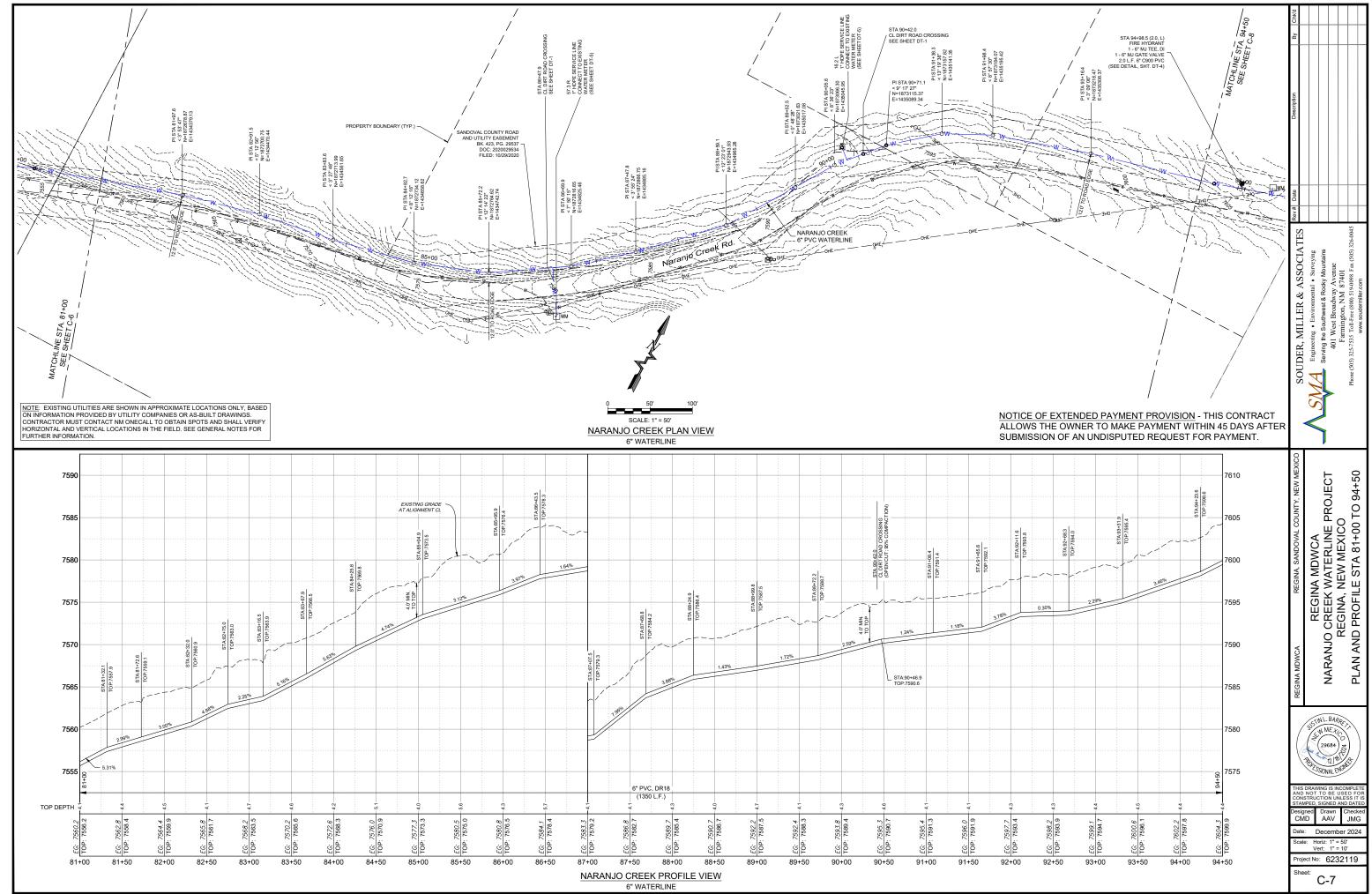


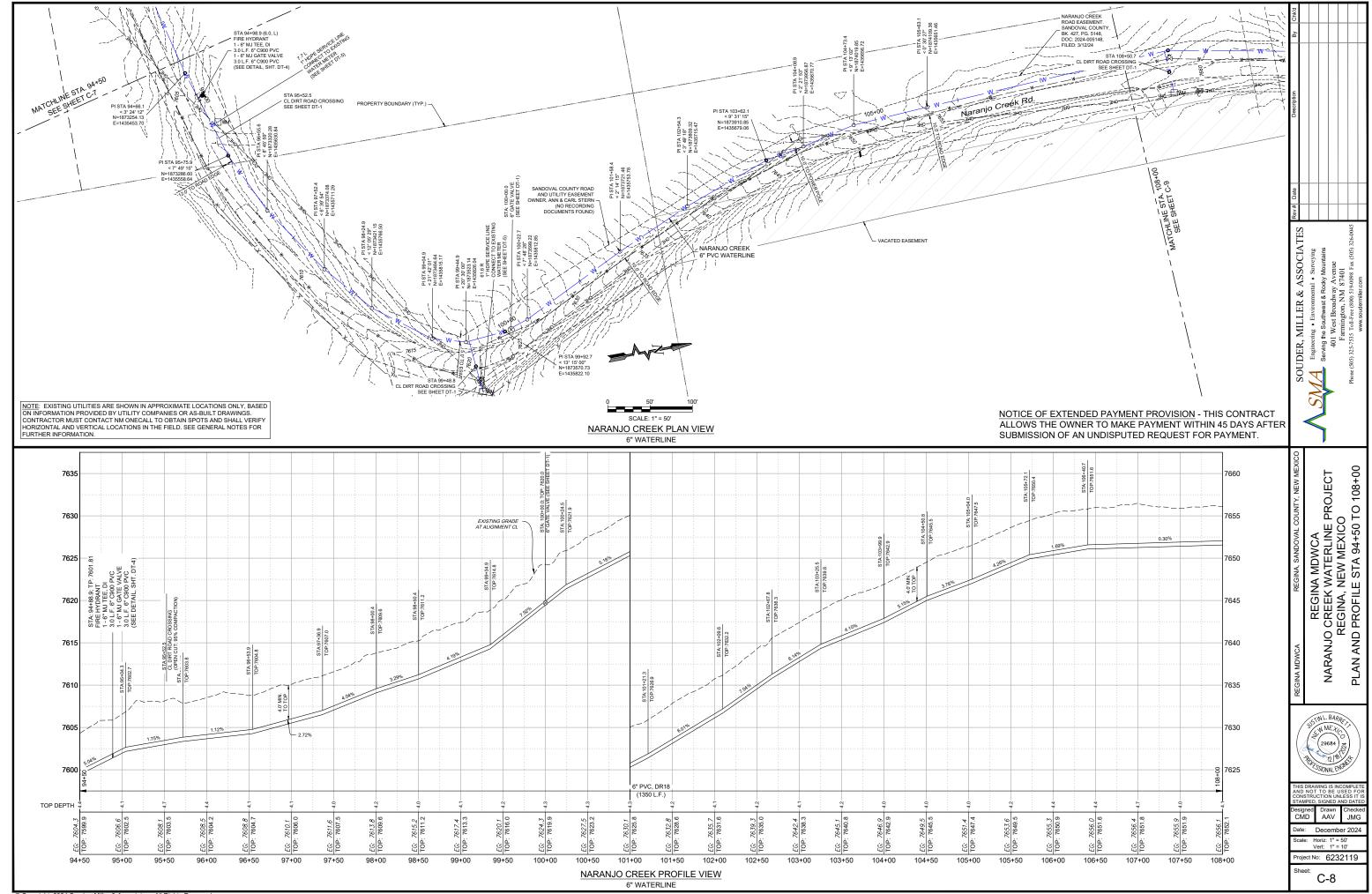


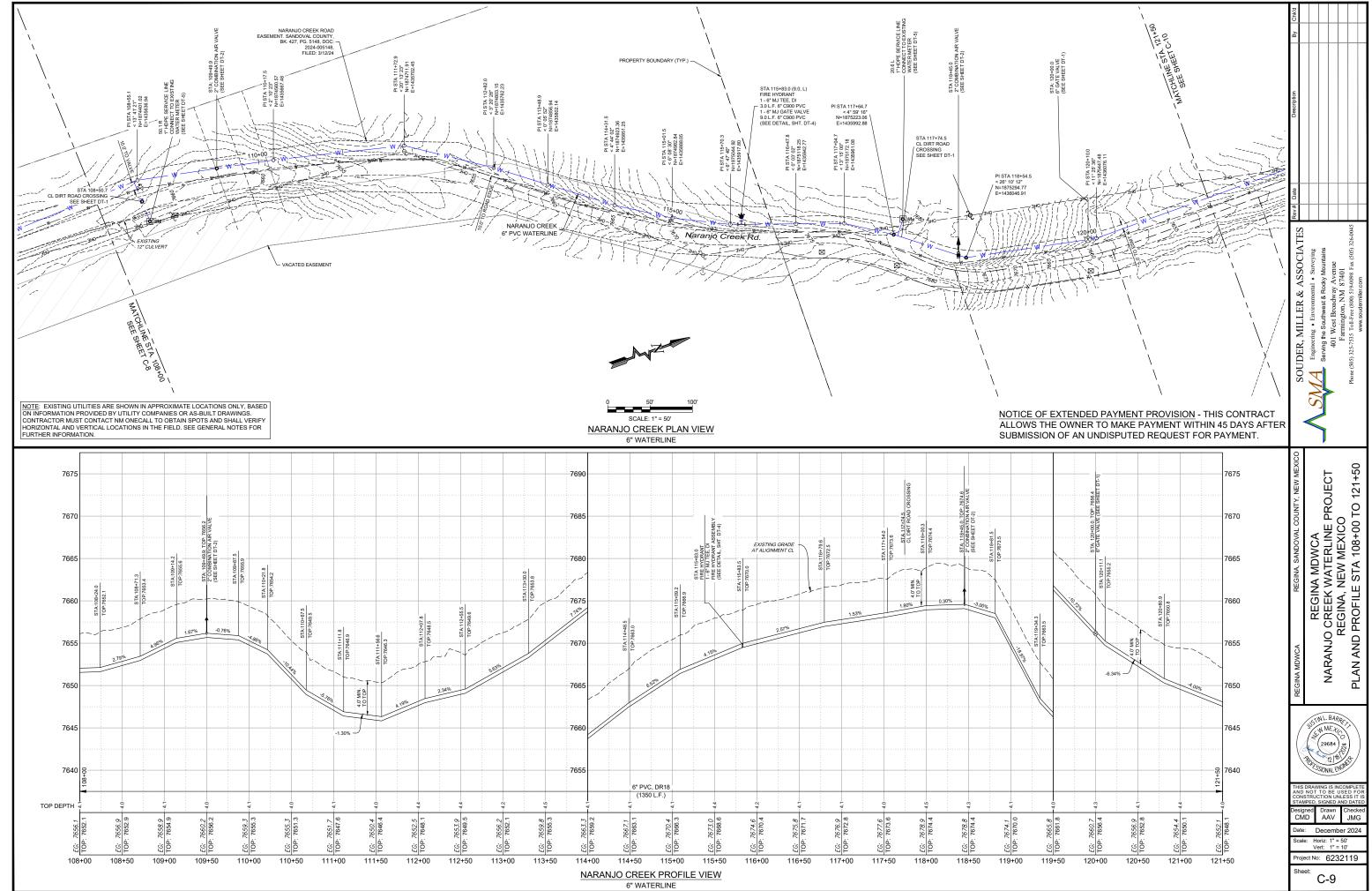


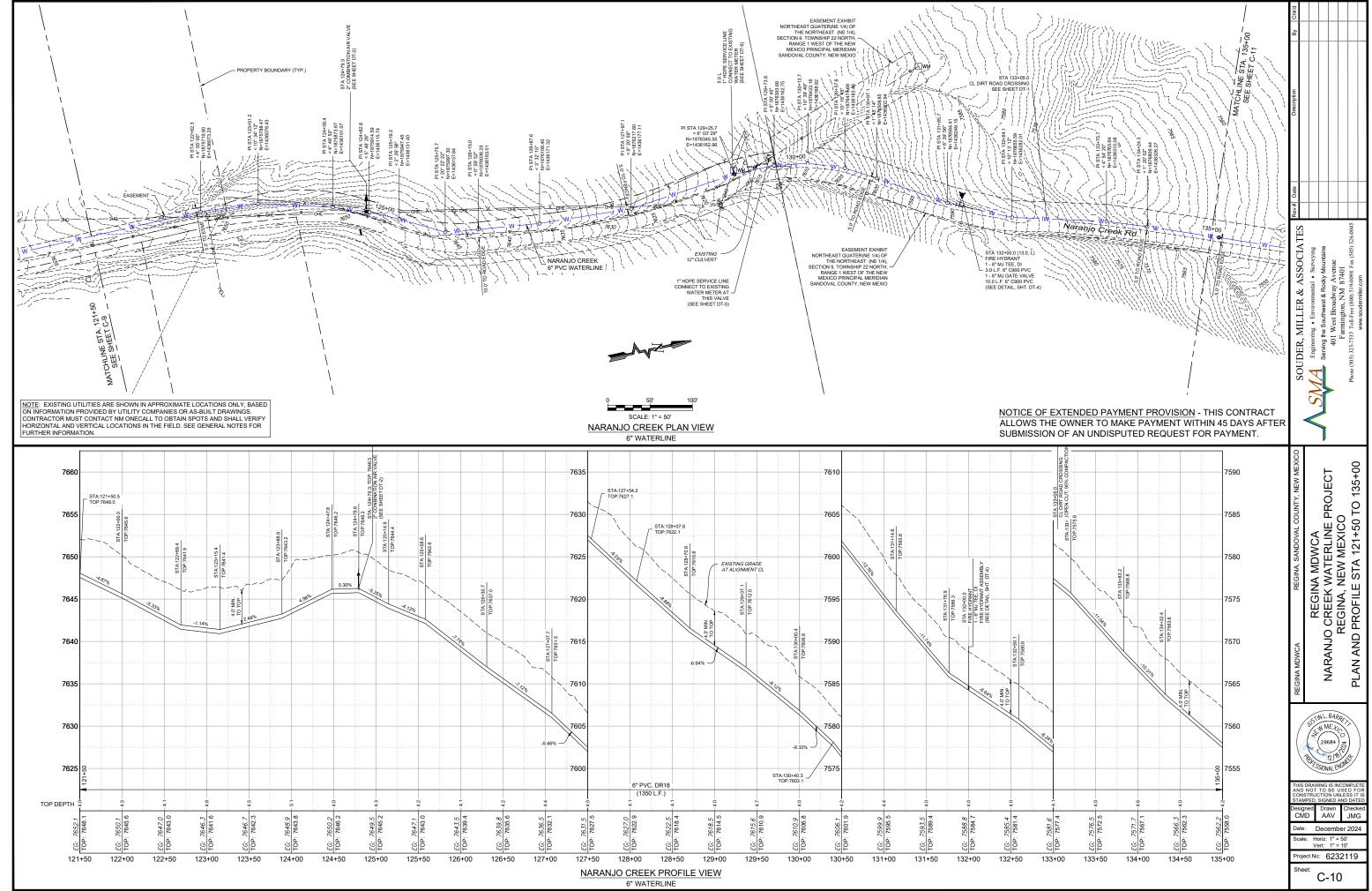


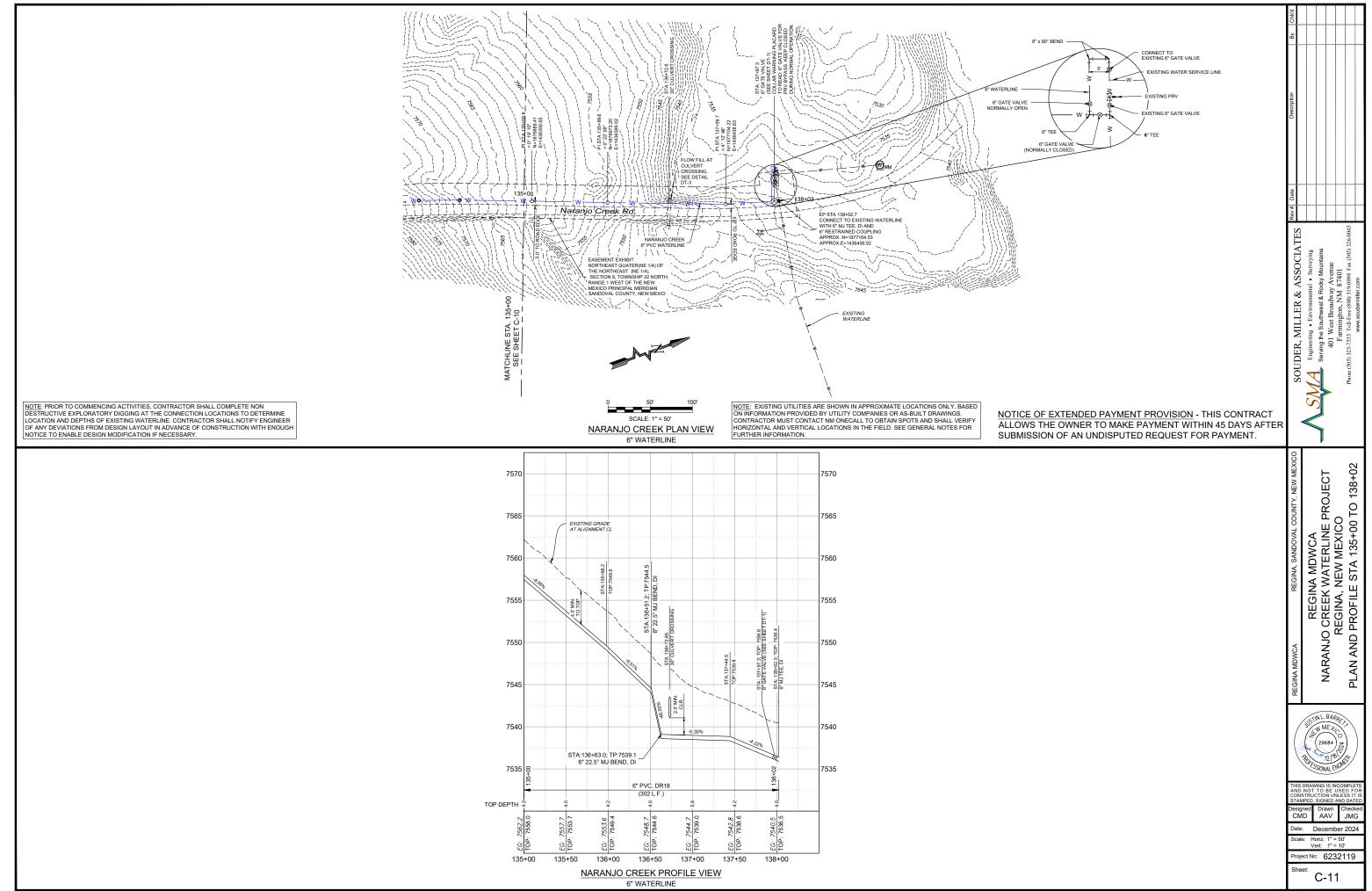


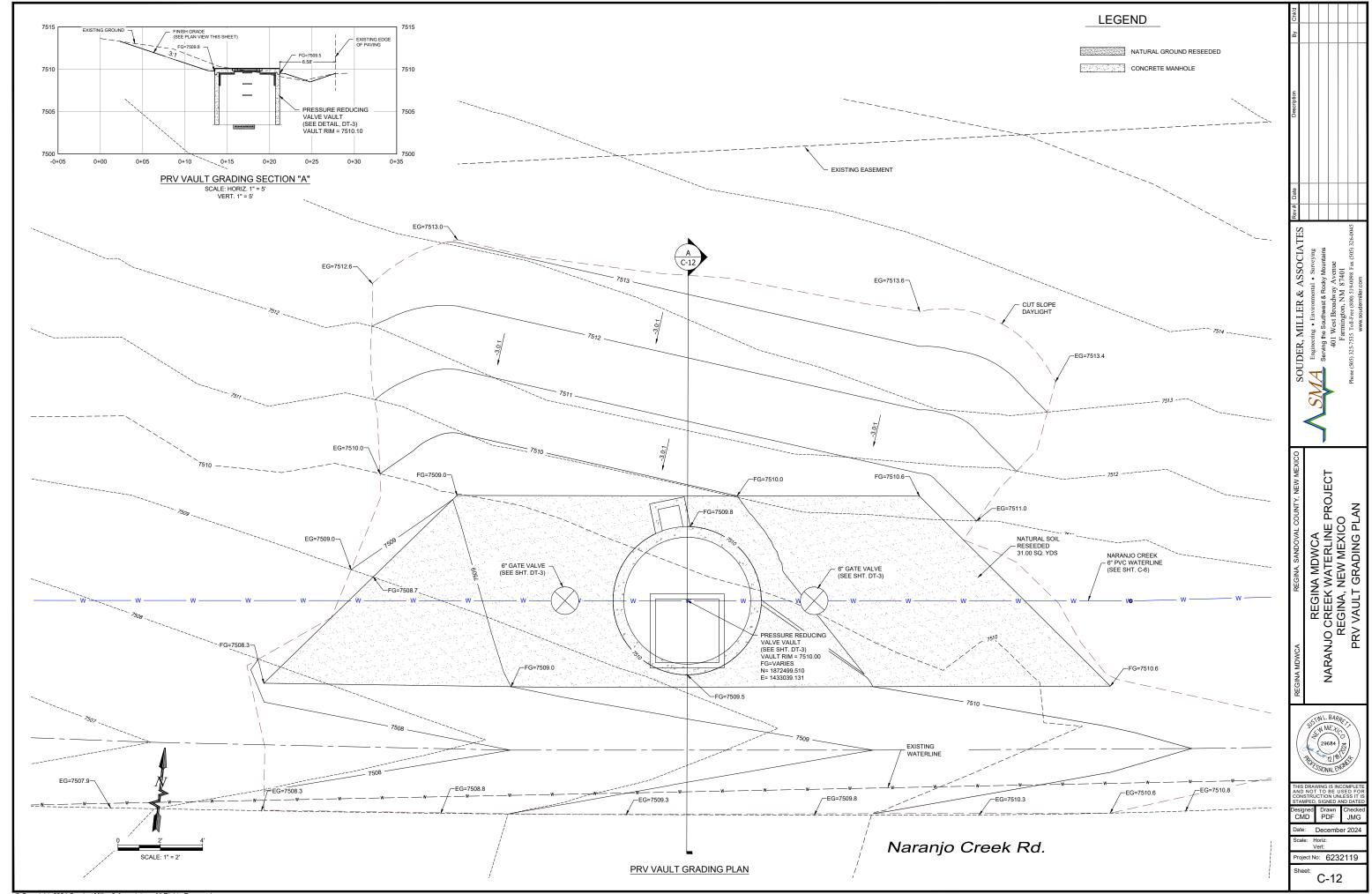












LENGTH IN FEET REQUIRED FOR ALL PVC RESTRAINED JOINTS

PIPE DIA.	DEAD END	90° BEND	45° BEND	22.5° BEND	11.25° BEND
4-INCH	64 ft.	21 ft.	9 ft.	5 ft.	3 ft.
6-INCH	90 ft.	30 ft.	13 ft.	6 ft.	3 ft.

GATE VALVES TO BE RESTRAINED IN SAME MANNER AS DEAD ENDS

VERTICAL OFFI	AL I					
	PIPE DIAMETER 6-INCH					
	Ld = 5		Ld = 6		Ld = 7	
BEND	UPPER BEND	LOWER BEND	UPPER BEND	LOWER BEND	UPPER BEND	LOWER BEND
45°	18 ft.	5 ft.	18 ft.	4 ft.	18 ft.	4 ft.
22.5°	9 ft.	3 ft.	9 ft.	2 ft.	9 ft.	2 ft.
11.25°	90 ft.	0	64 ft.	0	1 ft.	0
RESTRAINED EACH WAY						

FOR Ld > 4 CONSULT ENGINEER

	6" X 6" X 6" TEE/WYE			
Г	RUN	BRANCH		
П	20' Lr	1 ft.		
Γ	5' Lr	49 ft.		
Г	4' Lr	57 ft.		
П	3' Lr	65 ft.		
Г	2' Lr	73 ft.		
П	1'lr	81 ft		

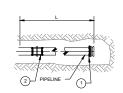
RESTRAINED ALONG THE

6" X 4" REDUCER
46 ft.
RESTRAINED ON LARGE SIDE
OF THE REDUCER
4" X 3" REDUCER
21 ft.
RESTRAINED ON LARGE SIDE
OF THE REDUCER

TABLE APPLIES TO PVC AND DUCTILE IRON PIPE FOR THE FOLLOWING CONDITIONS

- 1. TEST PRESSURE: 250 PSIG
- 2. SOIL TYPE: GP 3. TRENCH TYPE: 5
- 4. DEPTH OF COVER: 48'
- 5. SAFETY FACTOR: 2

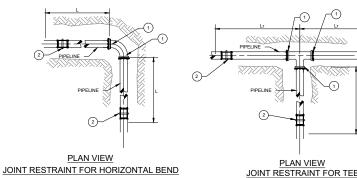
IF EXCAVATED NATIVE MATERIAL IS TO BE USED FOR PIPE EMBEDMENT, CONTRACTOR TO SUBMIT REVISED JOINT RESTRAINT TABLE REFLECTING APPROPRIATE SOIL TYPE.

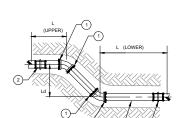


PLAN VIEW JOINT RESTRAINT FOR PLUG/CAP AND/OR CLOSED VALVE (SEE TABLE FOR DEAD END)

PLAN VIEW

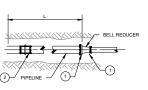
JOINT RESTRAINT FOR WYE





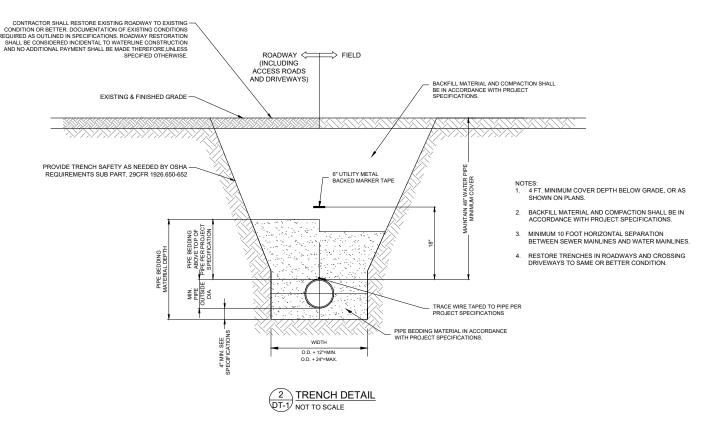
(SEE TABLE FOR 90°, 45°, 22½° AND 11¼° BENDS)

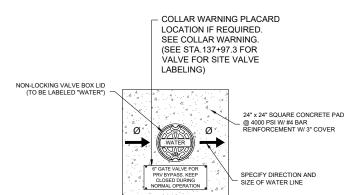
JOINT RESTRAINT FOR VERTICAL OFFSET



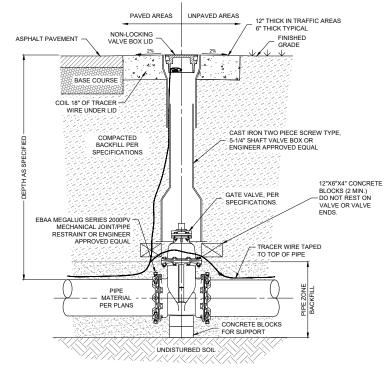
- NOTES:
 1. MECHANICAL JOINT RESTRAINT FOR PVC C900 OR DUCTILE IRON PIPE. (USE EBAA IRON SERIES 2000 PV JOINT RESTRAINTS FOR AWWA C-900 PVC PIPE AND SERIES 1100 FOR DUCTILE IRON PIPE, OR APPROVED EQUAL.)
- 2. BELL JOINT RESTRAINT HARNESS FOR C900 PVC OR DUCTILE IRON PIPE. (USE EBAA IRON SERIES 1600 JOINT RESTRAINT FOR AWWA C-900 PVC PIPE AND SERIES 1700 FOR DUCTILE IRON PIPE, OR APPROVED EQUAL.)
- 3. NO CONCRETE THRUST BLOCKING SHALL BE INSTALLED UNLESS EXPLICITLY APPROVED OR REQUESTED BY THE ENGINEER IN WRITING. RESTRAINED JOINTS SHALL BE USED AT ALL PIPE FITTINGS PER THIS DETAIL AS A MINIMUM STANDARD, MINIMUM RESTRAINT LENGTHS SHALL BE PER MANUFACTURER RECOMMENDATIONS AND WITH REGARD TO SPECIFIC SITE CONDITIONS AND SYSTEM OPERATING PARAMETERS.
- 4. L = LENGTH IN WHICH ALL JOINTS SHALL BE RESTRAINED
- 5. VALVES SHALL REQUIRE THE SAME JOINT RESTRAINT LENGTHS AS DEAD ENDS OF SIMILAR SIZE AND PIPE MATERIAL

1 PIPE RESTRAINTS FOR PVC PIPE AT BENDS QT-1 NOT TO SCALE





PLAN VIEW



SECTION VIEW MJXMJ GATE VALVE

- CONTRACTOR TO MATCH GATE VALVE AND PIPE RESTRAINTS TO SPECIFIED PIPE CLASSIFICATION CALLOUT.
- 2. GATE VALVES SHALL BE RESTRAINED PER DEAD END REQUIREMENTS IN JOINT RESTRAIN TABLE, IN EACH DIRECTION OF THE PIPE.
- 3. REFER TO TECHNICAL SPECIFICATIONS FOR ALL BACKFILL, BASE COURSE AND ASPHALT SPECIFICATIONS.
- 4. VALVE BOX EXTENSION SHOULD NOT CONTACT THE PIPELINE MAIN OR GATE VALVE.



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

SOUDER, MILLER & ASSOCIATES S

REGINA MDWCA NARANJO CREEK WATERLINE PROJECT REGINA, NEW MEXICO RESTRAINT, TRENCH AND GATE VALVE DETAILS

AAV December 202

DT-1

ject No: 6232119

1. CARSONITE UTILITY MARKER ON ALL P.I.'S

2. MAXIMUM DISTANCE BETWEEN CARSONITE

CARSONITE

UTILITY

MARKER

P.I. WITH

UTILITY

WATER LINE

MAIN LINE W/ MARKER

UTILITY MARKERS SHALL BE 500 LF.

AND GRADE CHANGES.

MAIN

500' OR

WITHIN

SIGHT

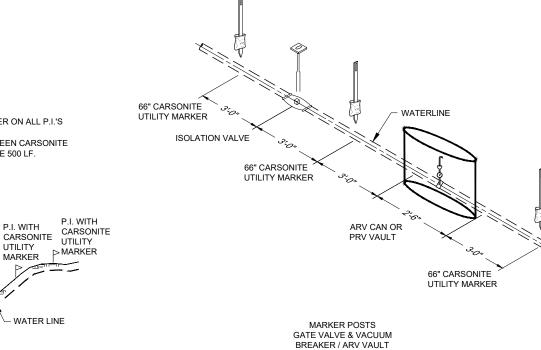
SCHEDULE

- 1) 30" DIA. PLASTIC (METER) BOX WITH REMOVABLE FROST LID W/INSULATION
- (2) 6" x 2" TAPPED TEE
- (3) ELBOW, 2" 90°, SS 304
- (4) NIPPLE, 2" x LENGTH AS NEEDED, SS 304, WRAPPED W/ TAPE
- 5 NIPPLE, 2" x 4", SS 304
- (6) 2" BALL VALVE, SS, PER SPECIFICATIONS
- 1" UNISTRUT SCREWED TO BOX AT ENDS WITH MIN. OF (2) % " Ø SELF-TAPPING SHEET METAL SCREWS ON EACH END, WITH GALVANIZED PIPE STRAP SECURING AIR VALVE BOLTED TO UNISTRUT
- 2" COMBINATION AIR VALVE, W/ 2" OUTLET, EPOXY COATED
- (9) 2" PVC SCH. 80 DOWN SPOUT, PVC WITH SCREENED 50mm OUTLET
- (10) 12" THICK GRAVEL BASE FOR CAN
- (11) COMPACTED SOIL BACKFILL
- (12) 21 5/8" FROST PROOF METER PIT COVER
- (13) CONCRETE BLOCK SUPPORT, SOLID 8" x 8" x 16"
- 2" STAINLESS STEEL PIPE STRAP, ANCHOR PIPE TO BLOCK W/ $\frac{1}{4}$ " x 2"
- SCARIFY NATIVE SOIL TO 8" DEPTH, THEN COMPACT TO 95%

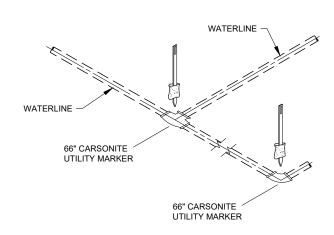
NOTE:

- ALL MATERIALS SHALL BE RATED TO AT LEAST MAIN
- CONTRACTOR SHALL LABEL ALL CONCRETE ARV COLLARS "ARV", WITH DIRECTIONAL ARROWS, PIPE SIZES, MATERIAL AND LINE STATION.
- PVC DOWN SPOUT SHALL BE LONG ENOUGH AND LOCATED AS TO NOT DRIP WATER ONTO VALVE BODY OR CURB STOP VALVE.
- 4. CURB STOP & AIR VALVES SHALL HAVE ADEQUATE HORIZONTAL CLEARANCE TO ALLOW EASE OF OPERATION OF CURB STOP W/ VALVE KEY AFTER INSTALLATION
- ALL BURIED METALLIC PIPE SHALL BE COLD APPLIED TAPE WRAPPED IN ACCORDANCE WITH AWWA C209.
- 6. ALL THREADED PIPE TO BE INSTALLED WITH TEFLON
- DO NOT BEND MAINLINE PIPE IN AREAS USING
- 8. WRAP CAV WITH THERMAXX INSULATION SPECIFIC FOR VALMATIC SERIES 201C.2

1 T' COMBINATION AIR RELEASE VALVE ASSEMBLY (TYP.) DT-2 NOT TO SCALE



2 DT-2 NOT TO SCALE



MARKER POSTS TEE & ELL

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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INDIVIDUAL MARKER POST

BLUE 66"

UTILITY

CARSONITE

0.33 CU. FT.

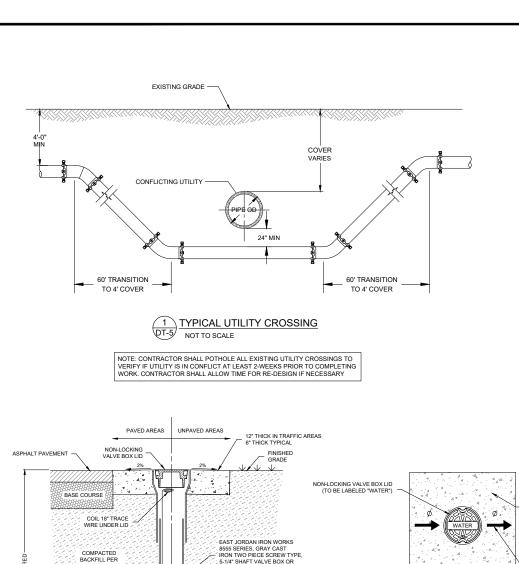
CONCRETE

FORMED

SOUDER, MILLER & ASSOCIATES

ect No: 6232119

DT-2



2" x 6" x 6" SOLID CONCRETE BLOCKS 2 Min.) PARALLEL TO PIPE. DO NOT

4 TYPICAL 2" GATE VALVE DETAIL

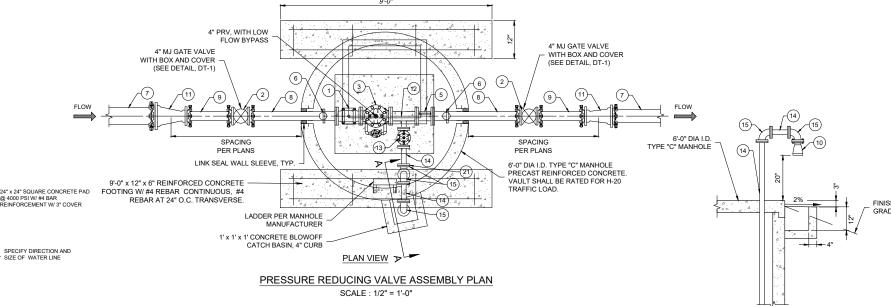
REST ON ADAPTORS OR PIPE

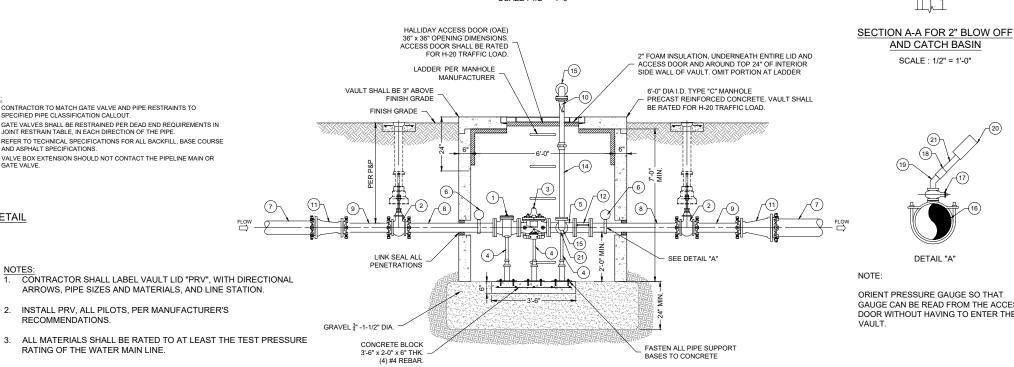
TRACE WIRE

NOT TO SCALE

KEYED NOTES - 4" PRESSURE REDUCING VALVE / VAULT Description 4" H STYLE STRAINER (FL x FL), CLAVAL X43H 4" MJ GATE VALVE (SEE DETAIL 3 SHEET DT-1) 4" PRESSURE REDUCING VALVE, CLAVEL 90-99G F BXV(FLXFL) WITH LOW-FLOW BYPASS 90-01 BY V. ADJUSTABLE PIPE SUPPORT SIZE W/ U-SHAPED CRADLE, 3" BASE ANCHORED TO BLOCK 4" RESTRAINED DISMANTLING JOINT, ROMAC DJ400-06 PRESSURE GAUGE ASSEMBLY SEE DETAIL A 6" PVC, C900 DR18 PIPE 4" DUCTILE IRON PIPE (PE x FL) 4" PVC, C900 DR18 PIPE 10 2" FLANGED RUBBER CHECK VALVE, TIDEFLEX

11	6" x 4" REDUCER, DI (MJ x MJ)
12	4" x 2" REDUCING TEE, DI (FL x FL)
13	2" PRESSURE RELIEF VALVE (FL x FL), CLA-VAL
14	2" SPOOL (FL x FL), GALVANIZED
15	2" 90° BEND (FL x FL), GALVANIZED
16	DOUBLE STRAP FULL CIRCLE SERVICE SADDLE
17	3" BALL CORPORATION STOP, MIPT X FIPT
18	3/4" X 1/4" BRASS BUSHING
19	‡" BRASS 45° STREET ELBOW, MIPT X FIPT
20	PRESSURE GAUGE (‡" MIPT) WITH 5.4" FACE AND 0-200 PSI RANGE, ASHCROFT 1010 (OR APPROVED EQUAL)
21	2" 90° BEND, STAINLESS STEEL, WITH 16" WEEP HOLE



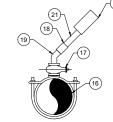


ELEVATION VIEW

PRESSURE REDUCING VALVE ASSEMBLY ELEVATION

SCALE : 1/2" = 1'-0"

AND CATCH BASIN SCALE: 1/2" = 1'-0"



DETAIL "A"

NOTE:

ORIENT PRESSURE GAUGE SO THAT GAUGE CAN BE READ FROM THE ACCESS DOOR WITHOUT HAVING TO ENTER THE

REGINA MDWCA NARANJO CREEK WATERLINE PROJECT REGINA, NEW MEXICO PRESSURE REDUCING VALVE DETAILS

SOUDER, MILLER & ASSOCIATES

ect No: 6232119

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

RESTRAIN PVC PIPE PER TABLE SHEET DT-1.

2. INSTALL PRV, ALL PILOTS, PER MANUFACTURER'S

RECOMMENDATIONS.

RATING OF THE WATER MAIN LINE.

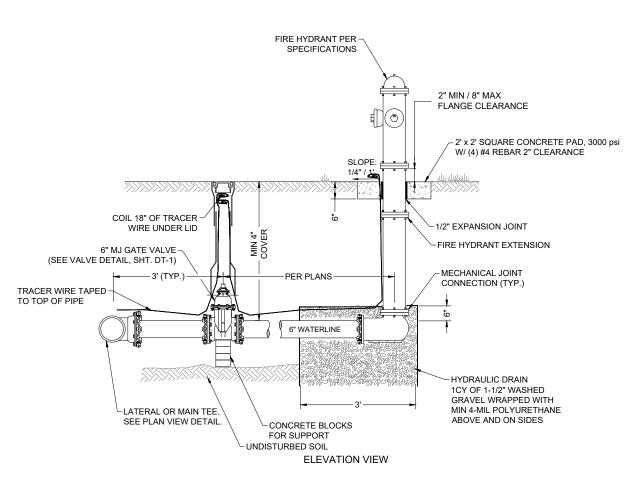
PLAN VIEW

CONTRACTOR TO MATCH GATE VALVE AND PIPE RESTRAINTS TO SPECIFIED PIPE CLASSIFICATION CALLOUT.
 GATE VALVES SHALL BE RESTRAINED PER DEAD END REQUIREMENTS IN JOINT RESTRAIN TABLE, IN EACH DIRECTION OF THE PIPE.

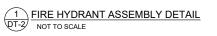
 REFER TO TECHNICAL SPECIFICATIONS FOR ALL BACKFILL, BASE COURSE AND ASPHALT SPECIFICATIONS. VALVE BOX EXTENSION SHOULD NOT CONTACT THE PIPELINE MAIN OR GATE VALVE.

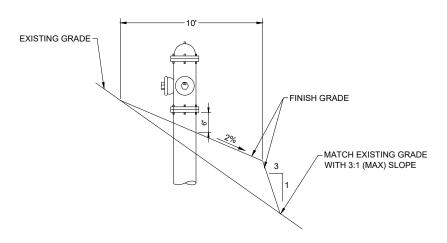
5. PRV WITH ANTI-CAVITATION TRIM SHALL BE FACTORY SET TO 40 psi

SECTION VIEW



- NOTES:
 1) ALL JOINTS TO BE RESTRAINED.
- MINIMUM 18" CLEARANCE BETWEEN ROADWAY SHOULDER AND FIRE HYDRANT.
- FIRE HYDRANT EXTENSION AS REQUIRED FOR CLEARANCE AS PER SPECIFICATIONS.
- EXISTING FIRE HYDRANTS TO BE REMOVED AND PROVIDED TO OWNER.

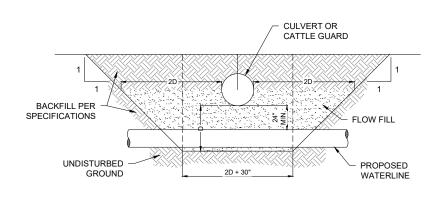




NOTE: CONSULT ENGINEER FOR SLOPES EXCEEDING 20%

FIRE HYDRANT - STEEP SLOPE DETAIL

NOT TO SCALE



CULVERT/CATTLE GUARD CROSSING

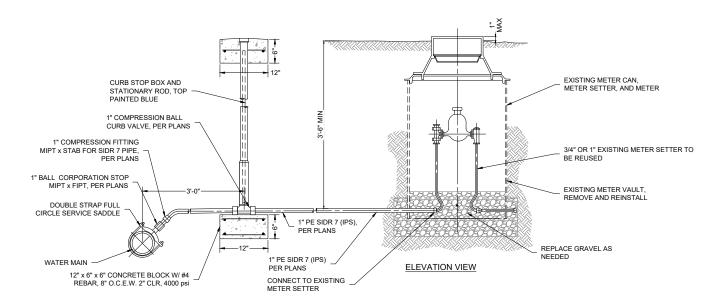
NOT TO SCALE

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

REGINA MDWCA NARANJO CREEK WATERLINE PROJECT REGINA, NEW MEXICO FIRE HYDRANT AND FLOWABLE FILL DETAILS

SOUDER, MILLER & ASSOCIATES

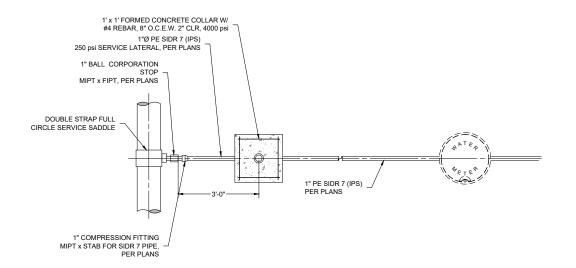
eject No: 6232119 DT-4



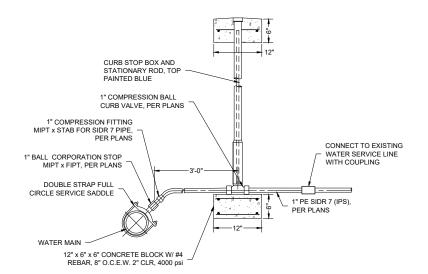
- REFER TO TECHNICAL SPECIFICATION 33 12 13 FOR APPROVED MATERIALS.
 ACTUAL LOCATION OF EXISTING METER TO BE LOCATED IN THE FIELD BY CONTRACTOR.
- CONTRACTOR TO DETERMINE IF CONNECTION TO EXISTING WATER SERVICE (DT-2) OR CONNECTION TO EXISTING
- WATER METER (DT-3) IS REQUIRED AFTER LOCATING WATER METER IN FIELD.

 CONTRACTOR TO RELOCATE WATER METER VAULT IF NEEDED BASED ON LOCATION OF NEW WATER LINE. NEW LOCATION MUST BE APPROVED BY ENGINEER IN ADVANCE.





PLAN VIEW

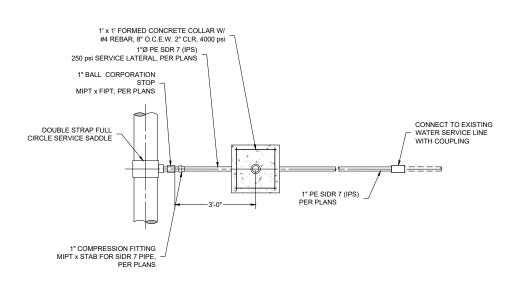


ELEVATION VIEW

ACTUAL LOCATION OF EXISTING METER TO BE LOCATED IN THE FIELD BY CONTRACTOR.

NOT TO SCALE

2. REFER TO TECHNICAL SPECIFICATION 33 12 13 FOR APPROVED MATERIALS.



PLAN VIEW

2 DT-3 CONNECTION TO EXISTING WATER SERVICE LINE

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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REGINA MDWCA NARANJO CREEK WATERLINE PROJECT REGINA, NEW MEXICO WATER CONNECTION DETAILS



ect No: 6232119 DT-5