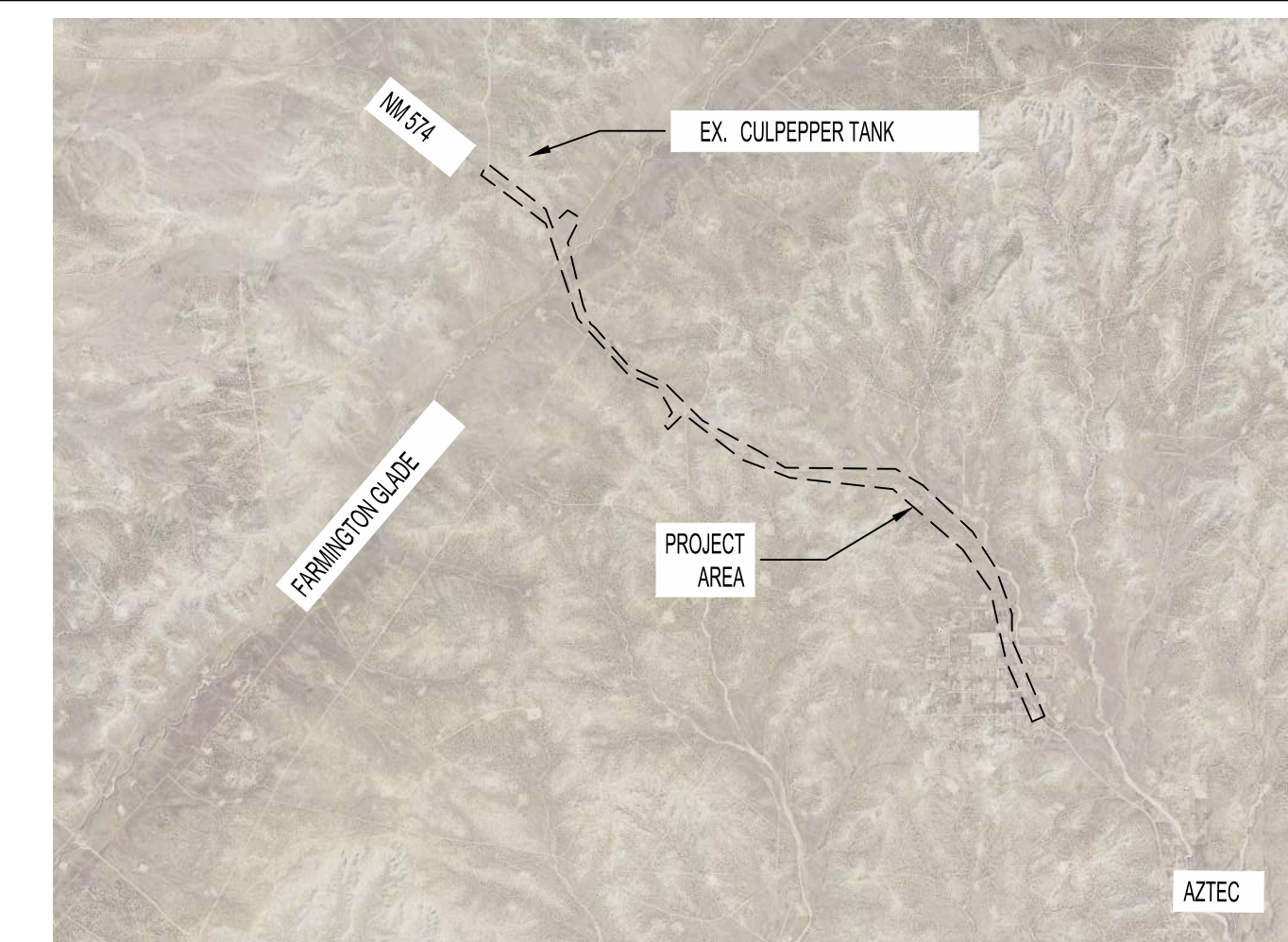


CONSTRUCTION PLANS FOR EAST CULPEPPER WATER CONNECTION FOR NORTH STAR MUTUAL DOMESTIC WATER CONSUMERS ASSOCIATION, INC. SAN JUAN COUNTY, NEW MEXICO SEPTEMBER 2021



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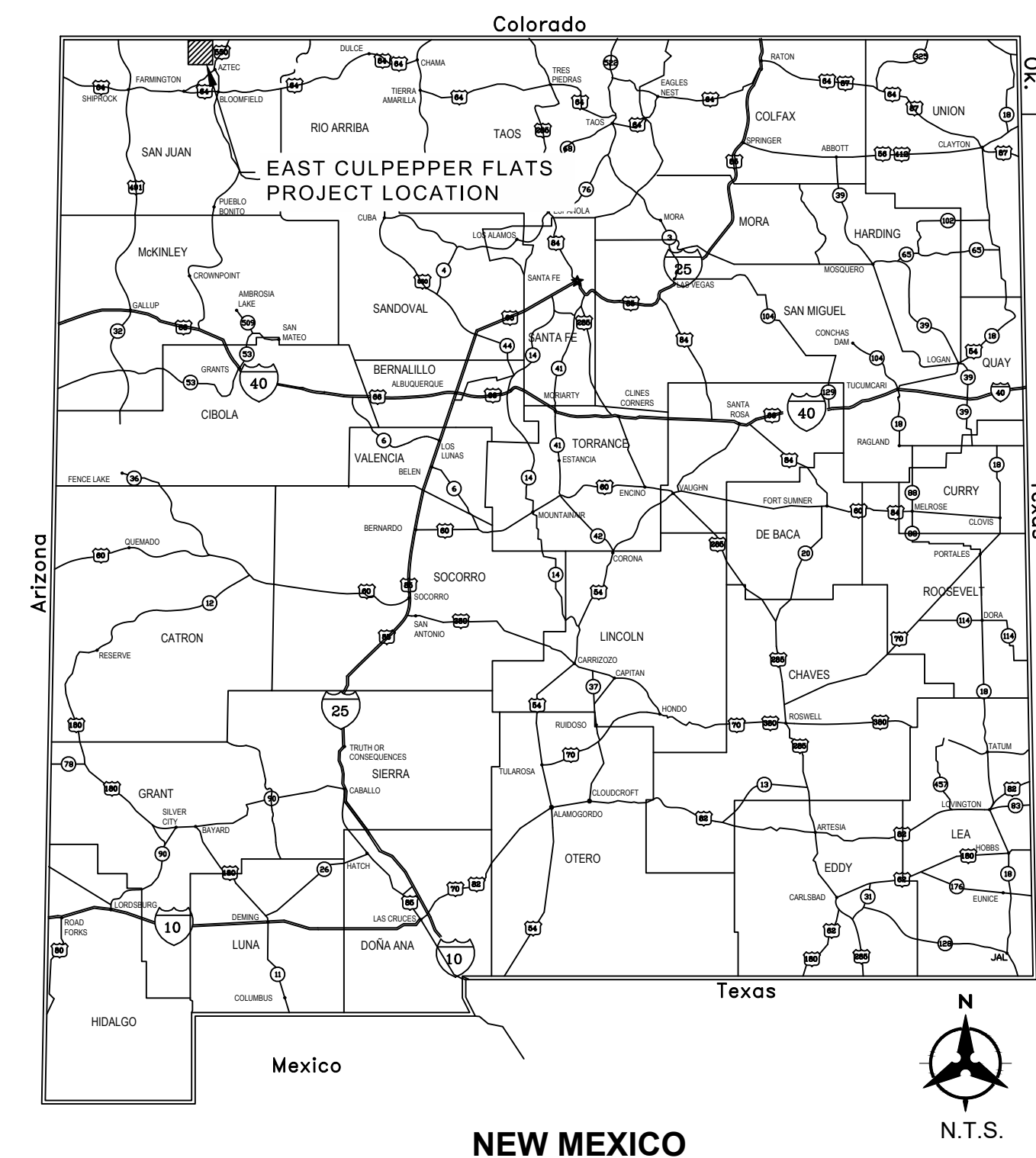
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SAP 20-E4067-STBR
SAP 20-E2179-STB



ENGINEERS STAMP & SIGNATURE



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

DATE	
LLOYD AYLIFFE NORTH STAR WATER	
DATE	
ERIC GARTNER, PE NMED CPB	

Bohannon & Huston
www.bhinc.com 800.877.5332

NICK PORELL, PE
SAN JUAN COUNTY

SAN JUAN COUNTY EAST CULPEPPER WATER CONNECTION PHSE 1: TRANSMISSION LINE AND BOOSTER STATION COVER SHEET			
BHI PROJECT NO.	20190029	DWG NO.	G-01
SHEET	01	OF	49

GENERAL NOTES

- ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
- PRIOR TO CONSTRUCTION ACTIVITIES, VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES AND OBSTRUCTIONS WITH POTENTIAL TO CHANGE PIPE ALIGNMENT. ALL EXISTING UTILITY ELEVATION DATA REPRESENTED ON THE PROFILE ARE APPROXIMATE, FIELD MEASUREMENTS FROM SURVEYING OF MANHOLES OR AVAILABLE AS-BUILTS. PROFILE ELEVATIONS FOR GRAVITY LINES SUCH AS STORM AND SANITARY SEWER WERE CALCULATED AND NOT POTHOLED. DATA POINTS NOT VERIFIED FROM POTHOLES, LABELED AS "DEPTH UNK". NEITHER THE ENGINEER NOR THE OWNER ASSUMES RESPONSIBILITY FOR COMPLETENESS OR INTERPRETATION OF SUCH SUPPLEMENTARY INFORMATION. IF NEW CONFLICTS ARE IDENTIFIED THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING WITHIN 24 HOURS OF DISCOVERY.
- ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. COORDINATE ALL NECESSARY UTILITY ADJUSTMENTS. COSTS SHALL BE INCIDENTAL TO THE PROJECT.
- DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OWNER.
- PROTECT THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL IMMEDIATELY BE REPAIRED OR REPLACED BY CONTRACTOR AT CONTRACTOR'S EXPENSE
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE RIGHT-OF-WAY, PROPERTY LIMITS AND/OR CONSTRUCTION WORK ZONE AS SHOWN ON DRAWINGS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT CONTRACTOR'S EXPENSE.
- EXCEPT AS SET FORTH IN THE SPECIFICATIONS, OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, SURFACE DISTURBANCE)
- CONTRACTOR SHALL REPLACE ANY AND ALL SURVEY MONUMENTS DESTROYED DURING CONSTRUCTION. ALL MONUMENTS MUST BE RESET BY A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR.
- USE CAUTION AT ALL EXISTING STRUCTURES INCLUDING THE EXISTING TANK, FENCE, ETC. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGE TO ANY STRUCTURES CAUSED BY THE CONTRACTOR'S OPERATIONS.
- TEMPORARY DRAINAGE MEASURES SHALL BE PROVIDED AS NECESSARY TO SAFELY CONVEY STORM WATER RUNOFF TO EXISTING OUTFALLS INCLUDING SILT FENCES AND SEDIMENT CONTROL MEASURES. REPAIR ANY DAMAGE RESULTING FROM STORM WATER FLOWS TO PRIVATE PROPERTY OR IMPROVEMENTS CONSTRUCTED BY THE CONTRACTOR. PREPARATION AND EXECUTION OF THE SWPPP IS THE RESPONSIBILITY OF THE CONTRACTOR.
- BEARINGS ARE GRID AND DISTANCES ARE GROUND.
- CONTRACTOR TO MAINTAIN RED-LINED RECORD DRAWINGS PER THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. HORIZONTAL AND VERTICAL LOCATIONS OF FACILITIES INSTALLED SHALL BE PROVIDED BY A LICENSED SURVEYOR.
- CONTRACTOR SHALL CONTRACT WITH CERTIFIED TESTING LABORATORY TO PERFORM FIELD DENSITY TESTS OR SOIL SAMPLING DURING CONSTRUCTION.
- EXISTING VALVES SHALL ONLY BE OPERATED BY THE OWNER. CONTRACTOR SHALL PROVIDE A MINIMUM 7 DAY NOTICE TO THE OWNER WHEN A SHUT-OFF IS REQUIRED.
- CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE BUREAU OF LAND MANAGEMENT REGARDING TREATMENT OF ARCHAEOLOGICAL SITES. IF DURING THE CONSTRUCTION PHASE, THE CONTRACTOR, ITS SUBCONTRACTORS, CONSULTANTS, AGENTS, OR EMPLOYEES FIND OR OTHERWISE DISCOVER OR BECOME AWARE OF ANY ARTIFACT OR OBJECT OF ANTIQUITY THAT MAY HAVE ANY RELIGIOUS OR CULTURAL SIGNIFICANCE, IMMEDIATELY ALL WORK SHALL BE HALTED AND OWNER NOTIFIED OF SUCH DISCOVERY. WORK SHALL NOT RECOMMENCE UNTIL OWNER HAS CONTACTED APPROPRIATE OFFICIALS. ALL STEPS HAVE BEEN TAKEN TO PROTECT THE ARTIFACT OR OBJECT, AND RECOMMENCEMENT OF SITE DEVELOPMENT HAS BEEN APPROVED BY THE OWNER.
- STANDARD SPECIFICATIONS AND STANDARD DETAILS REFERENCED IN THIS PROJECT ARE PER NEW MEXICO PUBLIC WORKS STANDARD SPECIFICATIONS NMPWSS LATEST EDITION. ALL WORK WITHIN NMDOT ROW SHALL CONFORM TO THE NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION(2019 EDITION)
- ALL PIPE AND FITTINGS IN CONTACT WITH DRINKING WATER SHALL MEET AWWA REGULATIONS FOR DRINKING WATER AND BE NSF-61 COMPLIANT.
- ALL WORK SHALL COMPLY WITH THE PROJECT SPECIFICATIONS OR NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS, WITH PROJECT SPECIFICATIONS TAKING PRECEDENCE.
- FOR PIPELINE TRENCH EXCAVATION, UTILIZE METHODS AND PROCEDURES OUTLINED IN THE OSHA REGULATIONS STANDARD NO. 1926. TRENCH SUPPORT AND TEMPORARY SHORING MAY BE REQUIRED FOR PIPELINE CONSTRUCTION IN CERTAIN AREAS ALONG THE ALIGNMENT TO SATISFY CONSTRAINTS IDENTIFIED IN THE DRAWINGS FOR LIMITS OF DISTURBANCE, PROTECTION OF EXISTING UTILITIES, TRAFFIC CONTROL, ETC. AND SHALL BE DESIGNED BY CONTRACTOR TO ADHERE TO OSHA STANDARDS. 25.
- BURY DEPTH OF WATERLINE SHALL BE PER STATION AND ELEVATION SHOWN IN PROFILE.

STAGING AREA

- CONTRACTOR MAY USE AREA IN PUMP STATION EASEMENT FOR STAGING OF MATERIALS AND EQUIPMENT STORAGE. REFER TO DWG C-23.

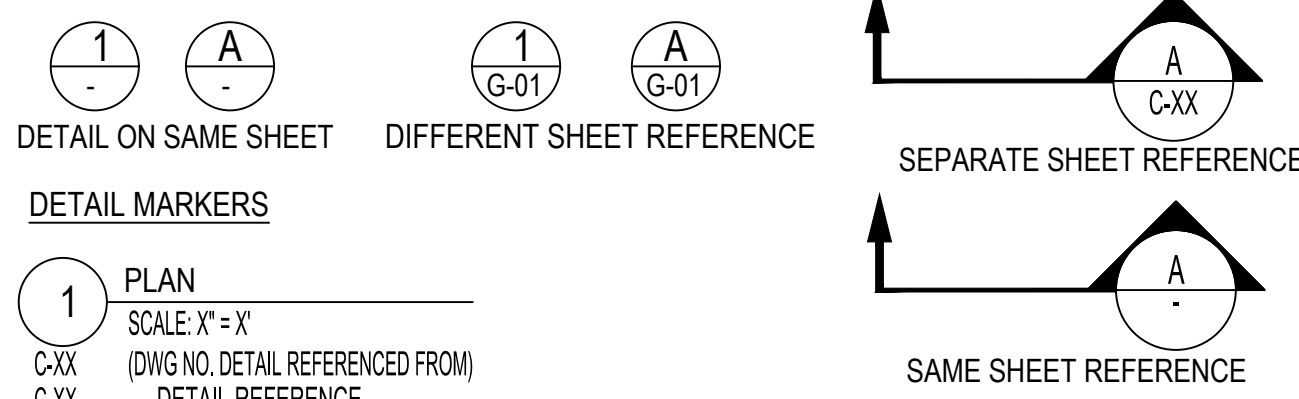
ADDITIONAL NOTES

- INSTALL BARRICADE FENCING ON THE CONSTRUCTION SIDE OF ENVIRONMENTALLY SENSITIVE AREAS.
- NMDOT VEGETATION MANAGEMENT SHALL APPROVE SEED MIXTURE.
- ALL SEED SHALL BE CERTIFIED NOXIOUS WEED FREE PRIOR TO USE. THERE WILL BE NO PRIMARY OR SECONDARY NOXIOUS WEEDS IN THE SEED MIXTURE. SEED LABELS FROM EACH BAG SHALL BE RETAINED AND TURNED INTO THE OWNER AFTER THE SEEDING IS ACCOMPLISHED.
- CERTIFIED WEED-FREE MULCH SHALL BE APPLIED AT A RATE OF 1.5 TONS PER ACRE AND SHALL BE CRIMPED TO PREVENT DRIFTING. STRAW OR HAY USED FOR MULCHING SHALL BE FROM OATS, WHEAT, RYE, OR OTHER APPROVED GRAIN CROPS, OR APPROVED HERBACEOUS MOWINGS, RESPECTIVELY, AND FREE FROM NOXIOUS OR OTHER OBJECTIONABLE MATERIAL.

TRAFFIC NOTES

- DO NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES WITH OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT. DO NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
- COORDINATE WITH NMDOT PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
- ENSURE THAT ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION AND NMDOT STANDARD SPECIFICATIONS, LATEST ADDITION.
- CONTRACTOR SHALL PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL.
- TWO (2) LANES OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES UNLESS NOTED ON THE PLAN AND PROFILE SHEETS.

REFERENCE LABELS



REFERENCE LABELS

APPROX	APPROXIMATE	MIN	MINIMUM
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MNFR	MANUFACTURER
BP	BOTTOM OF PIPE	N	NORTHING OR NORTH
CCP	CONCRETE CYLINDER PIPE	NAD	NORTH AMERICAN DATUM
CLR	CLEAR	NAVD	NORTH AMERICAN VERTICAL DATUM
CONC	CONCRETE	NM	NEW MEXICO
CY	CUBIC YARD	NMSSPW	NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
DI	DUCTILE IRON	NO.	NUMBER
DIA	DIAMETER	OC	ON CENTER
DIP	DUCTILE IRON PIPE	PCF	POUNDS PER CUBIC FOOT
DWG	DRAWING	PE	POLYETHYLENE
E	EAST	PSF	POUNDS PER SQUARE FOOT
EA	EACH	PSI	POUNDS PER SQUARE INCH
EL	ELEVATION	PVC	POLYVINYL CHLORIDE
ELEV	ELEVATION	R	RADIUS
EW	EACH WAY	RCP	REINFORCED CONCRETE PIPE
EWOC	EACH WAY ON CENTER	S	SLOPE OR SOUTH
EX	EXISTING	SAN	SANITARY SEWER
FF	FINISH FLOOR	SQ YD	SQUARE YARD
FG	FINISH GROUND	STA	STATION
FL	FLANGE	STD	STANDARD
GA	GAUGE	SS	STAINLESS STEEL
INV	INVERT	SW	SOUTHWEST
LF	LINEAR FEET	TP	TOP OF PIPE
LONGT	LONGITUDINALLY	TYP	TYPICAL
MAX	MAXIMUM	W	WEST
MB	MOLYBOLT	WL	WATER LINE
MH	MANHOLE		

NMDOT TRAFFIC CONTROL NOTES

- CONTRACTOR SHALL COORDINATE WITH NMDOT AND ENGINEER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES ON THE ROADWAY. ENGINEER WILL OBTAIN UTILITY PERMIT ON BEHALF OF SAN JUAN COUNTY. CONTRACTOR WILL BE REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL BE REQUIRED TO SUBMIT CERTIFICATE OF INSURANCE AND TRAFFIC CONTROL SUPERVISOR CERTIFICATION CARD
- CONTRACTOR SHALL BE REQUIRED TO FILL OUT AND SUBMIT UTILITY PERMIT CONSTRUCTION NOTIFICATION FORM A MINIMUM OF TWO WEEKS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES. FORM SHALL BE SUBMITTED TO NMDOT DISTRICT 5.

SWPPP NOTES

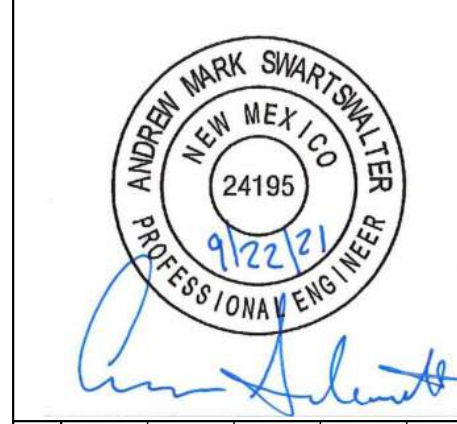
- CONTRACTOR IS RESPONSIBLE TO PREPARE SWPPP FOR THE ENTIRE PROJECT. A COPY OF SWPPP SHALL BE SUBMITTED FOR REVIEW AND REVIEW APPROVAL TO NMDOT AND SAN JUAN COUNTY AS REQUIRED.
- CULVERT PROTECTIONS SHALL BE INSTALLED UPON INITIATION OF EARTH WORK ACTIVITIES AND MAINTAINED AS MUCH AS PRACTICAL UNTIL STABILIZATION IS COMPLETED AND ACCEPTED. CULVERT PROTECTIONS MAY BE REMOVED FOR PERIODS OF TIME AS REQUIRED DURING CONSTRUCTION TO COMPLETE ADJACENT IMPROVEMENTS.
- COMPOST MULCH SOCKS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ANY EXCAVATED MATERIAL OR STOCKPILED MATERIAL SHALL HAVE DOWNSTREAM SEDIMENT CONTROL MEASURES IN PLACE AT END OF EACH WORK DAY.

CONTACT INFORMATION

SAN JUAN COUNTY	JIM COX	PHONE: (505) 334-4266 EMAIL: JCOX@SJCOUNTY.NET
BOHANNAN HUSTON INC PROJECT ENGINEER 7500 JEFFERSON ST NE ALBUQUERQUE, NM 87109	ANDREW SWARTSWALTER TANDY FREEL TODD BURT	PHONE: (505) 823-1000 EMAIL: ASWARTSWALTER@BHINC.COM
NMDOT DISTRICT 5 7315 CERRILLOS ROAD SANTA FE, NM 87502	MARCOS HERRERA	PHONE: (505) 690-1524 EMAIL: MARCOS.HERRERA@STATE.NM.US
NORTH STAR MDWCA PO BOX 1120 AZTEC, NM 87410	LLOYD AYLIFFE	PHONE: (505) 334-9375 EMAIL: LLOYD@NORTHSTARWATER.ORG
BUREAU OF LAND MANAGEMENT FARMINGTON FIELD OFFICE 6251 COLLEGE BLVD, FARMINGTON, NM 87402	MONICA TILDEN	PHONE: (505)564-7744
EAST CULPEPPER FLATS DOMESTIC WATER CONSUMERS ASSOCIATION PO BOX 583 108 LLANO ROAD AZTEC, NM 87410	JIM LESHNER	PHONE: (505)215-1447
WILLIAMS FIELD SERVICES 1755 ARROYO DR. BLOOMFIELD, NM 87413	LLOYD BELL	PHONE: (505)486-2637

	EXISTING	NEW
PROPERTY LINE	---	---
FENCE	---	---
EASEMENT	---	---
UNDERGROUND ELECTRIC LINE	---USEL---	---
SANITARY SEWER LINE	---S---	---
STORM DRAIN LINE	---SD---	====
OVERHEAD ELECTRIC	---OHE---	---
TELEPHONE	---	---
GAS	---GAS---	---
WATER LINE	---W---	---W---
INDEX CONTOUR	---5805---	---5805---
FLOW PATH/SWALE	---	--->---
POWER POLE	●	
GATE VALVE	⊗	
BUTTERFLY VALVE	⊗	⊗
MOTORIZED BUTTERFLY VALVE	⊗	⊗
POTHOLE LOCATION	⊗	⊗
HYDRANT	⊗	
REDUCER	▲	
MANHOLE	⊗	⊗
VALVE PIT	⊗	
WELL HEAD	⊗	
CAP	⊗	
POTHOLE	⊗	
CAV		⊗

ENGINEER'S SEAL



AS-BUILT INFORMATION

CONTRACTOR	DATE	DATE	DATE	DATE	DATE
WORK STAGED BY					
INSPECTORS ACCEPTANCE BY					
FIELD VERIFICATION BY					
DRAWINGS CORRECTED BY					

REVISIONS

BY					

DESIGN

DESIGNED BY	BS	CHECKED BY	AMS	DRAWN BY	NEC
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SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
GENERAL NOTES AND LEGEND

NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNERS TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.	BHI PROJECT NO. 20190029	DWG NO. G-02	SHEET 02	OF 49
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GEOTECHNICAL NOTES:

GEOTECHNICAL ENGINEERING REPORT REFERENCE:

GEOMAT 915 MALTA AVE FARMINGTON, NEW MEXICO 87401

DATED: NOVEMBER 12, 2020

GEOMAT PROJEC: 202-3606

ENGINEERED FILL MATERIALS FOR TANKS AND FOUNDATIONS:

1. ON-SITE OR IMPORTED SOILS WITH LOW EXPANSIVE POTENTIALS SHALL BE USED AS FILL MATERIAL FOR THE FOLLOWING:
 - a. GENERAL SITE GRADING
 - b. FOUNDATION AREAS UNDER STRUCTURES
 - c. FOUNDATION BACKFILL UNDER TANKS

SIZE	PERCENT PASSING
3 INCH	100
NO. 4	50-100
NO. 200	50 MAX

MAXIMUM EXPANSIVE POTENTIAL (%) * = 1.5

* MEASURED ON A SAMPLE COMPACTED TO APPROXIMATELY 95 PERCENT OF THE ASTM D698 MAXIMUM DRY DENSITY AT ABOUT 3 PERCENT BELOW OPTIMUM WATER CONTENT. THE SAMPLE IS CONFINED UNDER A 144-PSF SURCHARGE AND SUBMERGED

3. FILL OR BACKFILL, CONSISTING OF SOIL APPROVED BY THE GEOTECHNICAL ENGINEER, SHALL BE PLACED AND NOT EXCEED 10 INCH LOOSE LIFTS AND COMPACTED WITH APPROVED COMPACTION EQUIPMENT.
4. MATERIAL SHOULD BE COMPACTED TO THE FOLLOWING:

MATERIAL	MINIMUM PERCENT (ASTM D698)
SUBGRADE SOILS BENEATH FILL AREAS	95
ENGINEERED FILL SOILS	95
MISCELLANEOUS BACKFILL	90

5. ON-SITE AND IMPORTED SOILS SHALL BE MOISTENED TO OPTIMUM MOISTURE CONTENT (+/-2%)

PIPELINE EXCAVATION AND BACKFILL:

1. CONSTRUCTION OF STABLE TEMPORARY EXCAVATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR. TEMPORARY SLOPES AND EXCAVATIONS SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH APPLICABLE OSHA GUIDELINES, AS APPROPRIATE.
2. ALL DETAILS REGARDING EXCAVATION SAFETY, AS DESCRIBED IN OSHA REGULATIONS, SHALL BE FOLLOWED. ALL EXCAVATIONS IN SOILS GREATER THAN FOUR FEET (4') IN DEPTH SHALL BE SLOPED, SHORED OR BRACED.
3. SPOILS SHALL BE PLACED AT LEAST TWO (2) FEET AWAY FROM THE EDGE OF EXCAVATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND ASSESSING CONDITIONS AFFECTING SOIL STABILITY DURING CONSTRUCTION.
5. EXCAVATIONS SHALL BE BACKFILLED TO THE PLANNED FINISHED GRADES USING NATIVE OR IMPORTED SOILS THAT ARE FREE OF DEBRIS, RUBBLE, FROZEN SOIL, ORGANIC MATERIAL, OR OTHER DELETERIOUS MATERIAL.
6. FILL MATERIAL SHALL BE FREE OF COBBLES OR BOULDERS GREATER THAN SIX INCHES IN DIAMETER.
7. EXCAVATED BEDROCK MAY NOT BE SUITABLE FOR USE AS BACKFILL MATERIAL.
8. BACKFILL MATERIAL SHOULD BE COMPACTED TO A MINIMUM OF 90 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. IN AREAS WHERE THE FINAL BACKFILL IS LOCATED UNDER PAVEMENTS OR OTHER STRUCTURES, THE UPPER TWO (2.0) FEET OF BACKFILL SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE D698 MAXIMUM DRY DENSITY.
9. SOILS SHOULD BE COMPACTED AT A MOISTURE CONTENT BETWEEN THREE (3.0) PERCENT BELOW AND ONE (1.0) PERCENT ABOVE OPTIMUM.

BACKFILL MATERIAL SHALL BE PLACED IN HORIZONTAL LIFTS USING EQUIPMENT AND PROCEDURES THAT WILL PRODUCE RECOMMENDED MOISTURE CONTENTS AND DENSITIES THROUGHOUT THE LIFT. IN THE CASE OF CONFLICTING MOISTURE AND/OR DENSITY SPECIFICATIONS, THE CRITERIA SPECIFIED BY THE PREVAILING JURISDICTION SHALL GOVERN.
10. CONTRACTOR SHALL FOLLOW NMDOT MINIMUM TESTING REQUIREMENTS FOR WORK WITHIN NMDOT ROW.

ENGINEER'S SEAL



AS-BUILT INFORMATION

CONTRACTOR	DATE
WORK STAGED BY	DATE
INSPECTORS ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

REVISIONS

NO.	DATE	BY

DESIGN

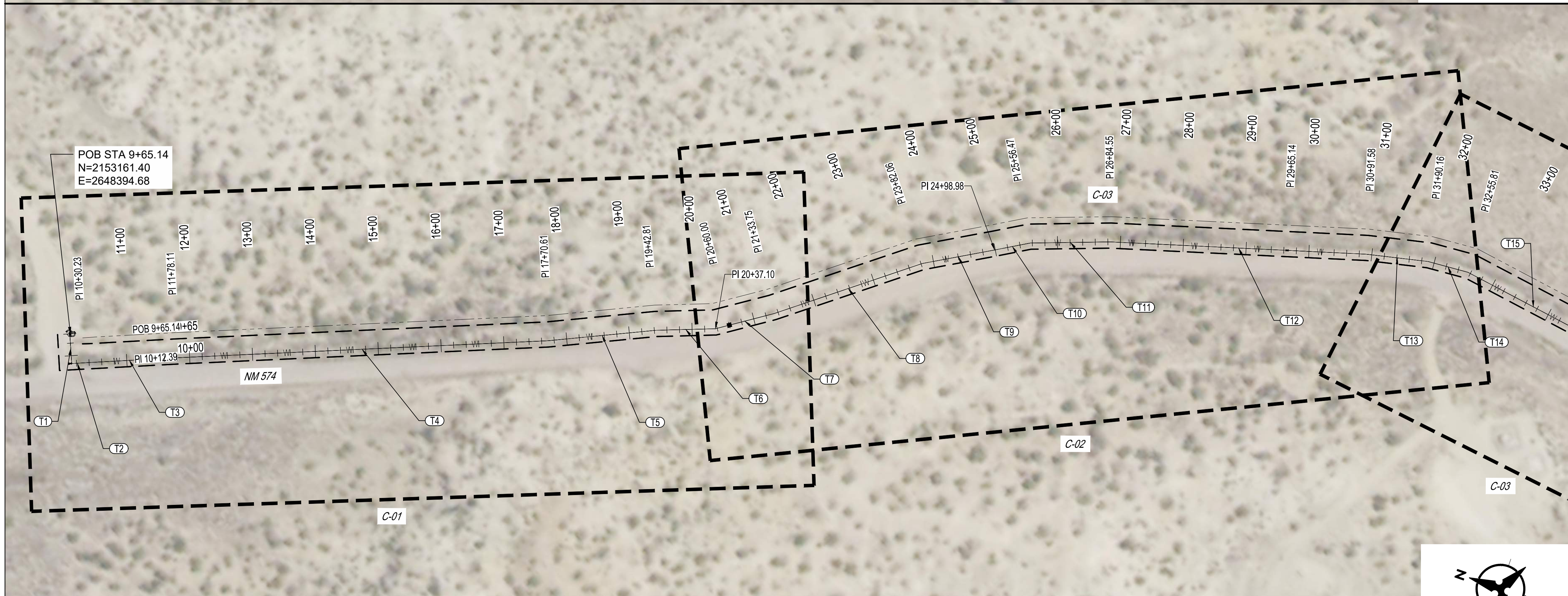
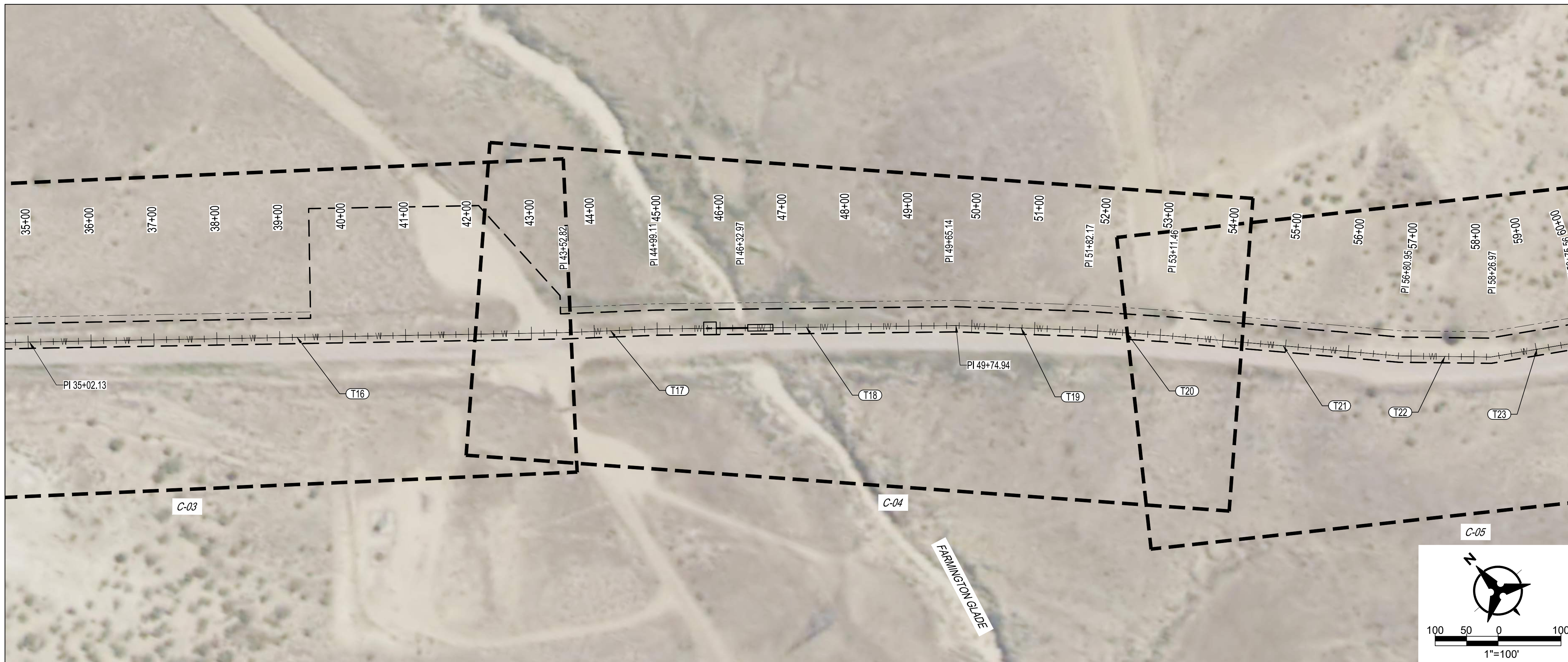
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CHECKED BY	AMS
DRAWN BY	NEC



**SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
GEOTECHNICAL NOTES**

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

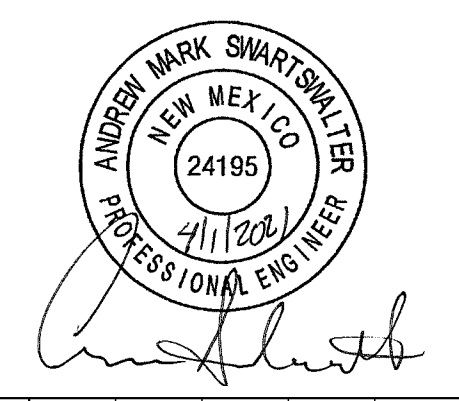
BHI PROJECT NO.	20190029	DWG NO.	G-03	SHEET	03	OF	49
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TANGENT TABLE		
ID	LENGTH	BEARING
T1	47.254	S37° 42' 39.21"W
T2	17.837	S51° 36' 57.74"E
T3	147.876	S51° 36' 57.74"E
T4	592.507	S51° 06' 23.75"E
T5	172.197	S54° 00' 47.41"E
T6	94.287	S49° 56' 51.15"E
T7	96.649	S62° 58' 36.16"E
T8	248.314	S67° 08' 22.55"E
T9	116.920	S59° 03' 24.50"E
T10	57.493	S59° 33' 52.32"E
T11	128.073	S49° 18' 11.23"E
T12	407.031	S45° 43' 20.70"E
T13	98.586	S41° 41' 29.09"E
T14	65.646	S33° 23' 05.43"E
T15	246.322	S20° 38' 13.78"E
T16	850.690	S20° 19' 36.78"E
T17	146.287	S21° 36' 39.99"E
T18	475.829	S19° 57' 29.86"E
T19	207.233	S17° 16' 37.04"E
T20	129.290	S15° 29' 01.32"E
T21	369.489	S14° 19' 05.66"E
T22	146.025	S18° 39' 00.42"E
T23	148.583	S28° 51' 59.28"E

REFER TO SHEET G-05

ENGINEER'S SEAL



AS-BUILT INFORMATION	
CONTRACTOR	DATE
WORK STAMPED BY	DATE
INSPECTORS ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

REVISIONS	
NO.	DATE

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



Bohannon & Huston
www.bhinc.com 800.877.5332

SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
HORIZONTAL LAYOUT [1 OF 5]

BHI PROJECT NO. 20190029 DWG NO. G-04 SHEET 04 OF 49

Tue, 16-Mar-2021 8:13 am, Plotted by: WSUSER
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TANGENT TABLE		
ID	LENGTH	BEARING
T24	172.703	S38° 28' 51.17"E
T25	359.911	S41° 38' 39.82"E
T26	51.018	S48° 11' 06.16"W
T27	743.270	S41° 50' 09.44"E
T28	308.106	S41° 16' 47.37"E
T29	223.784	S43° 12' 41.36"E
T30	163.628	S40° 42' 22.43"E
T31	138.306	S45° 19' 17.54"E
T32	132.449	S54° 19' 31.89"E
T33	92.197	S64° 39' 33.43"E
T34	440.689	S70° 22' 54.52"E
T35	274.222	S61° 06' 12.37"E
T36	246.414	S53° 15' 42.19"E
T37	271.036	S45° 12' 53.69"E
T38	588.174	S44° 15' 27.12"E
T39	339.093	S47° 23' 03.06"E
T40	349.576	S50° 26' 06.89"E

REFER TO SHEET G-06

ENGINEER'S SEAL



AS-BUILT INFORMATION

	CONTRACTOR	DATE	WORK STAND BY	DATE	INSPECTORS ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DESIGNING CORRECTED BY	DATE
BY										

REVISIONS

NO.	DATE	BY	DESCRIPTION

NOTICE OF EXTENDED PAYMENT PROVISION:
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AN UNDISPUTED REQUEST FOR PAYMENT.



**SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
HORIZONTAL LAYOUT [2 OF 5]**

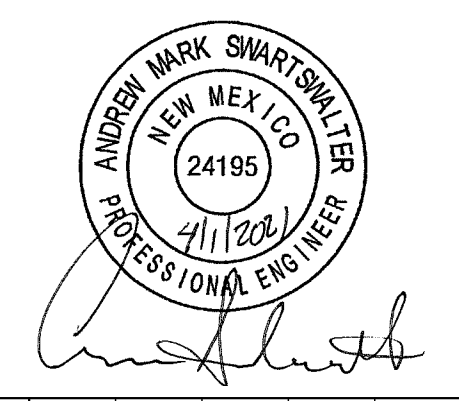
Tue, 16-Mar-2021 - 8:14 am, Plotted by: WSUSER
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TANGENT TABLE		
ID	LENGTH	BEARING
T41	230.998	S50° 42' 08.14"E
T42	221.810	S57° 28' 15.76"E
T43	566.936	S61° 18' 55.88"E
T44	336.143	S61° 23' 46.62"E
T45	75.511	S69° 16' 07.32"E
T46	189.381	S78° 18' 58.79"E
T47	176.792	S70° 34' 57.41"E
T48	164.388	S59° 37' 40.66"E
T49	335.556	S53° 02' 29.33"E
T50	82.325	S57° 43' 21.14"E
T51	125.747	S61° 42' 30.33"E
T52	141.245	S75° 21' 18.36"E
T53	107.920	S65° 11' 39.81"E
T54	152.995	N89° 35' 22.95"E
T55	274.473	N88° 48' 46.60"E
T56	367.840	S89° 30' 27.89"E
T57	145.936	N89° 38' 01.32"E
T58	1590.532	S89° 00' 48.28"E

REFER TO SHEET G-07

ENGINEER'S SEAL



AS-BUILT INFORMATION

CONTRACTOR	DATE	WORK STAMPED BY	DATE	INSPECTORS ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DESIGNING CORRECTED BY	DATE

REVISIONS

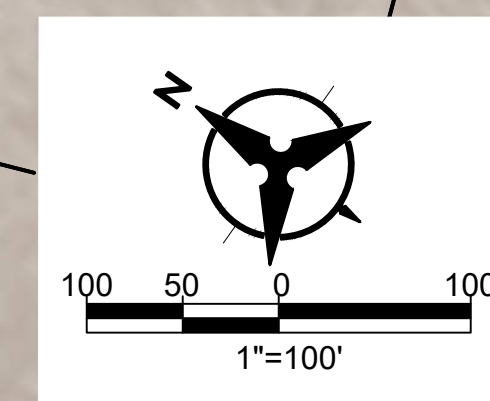
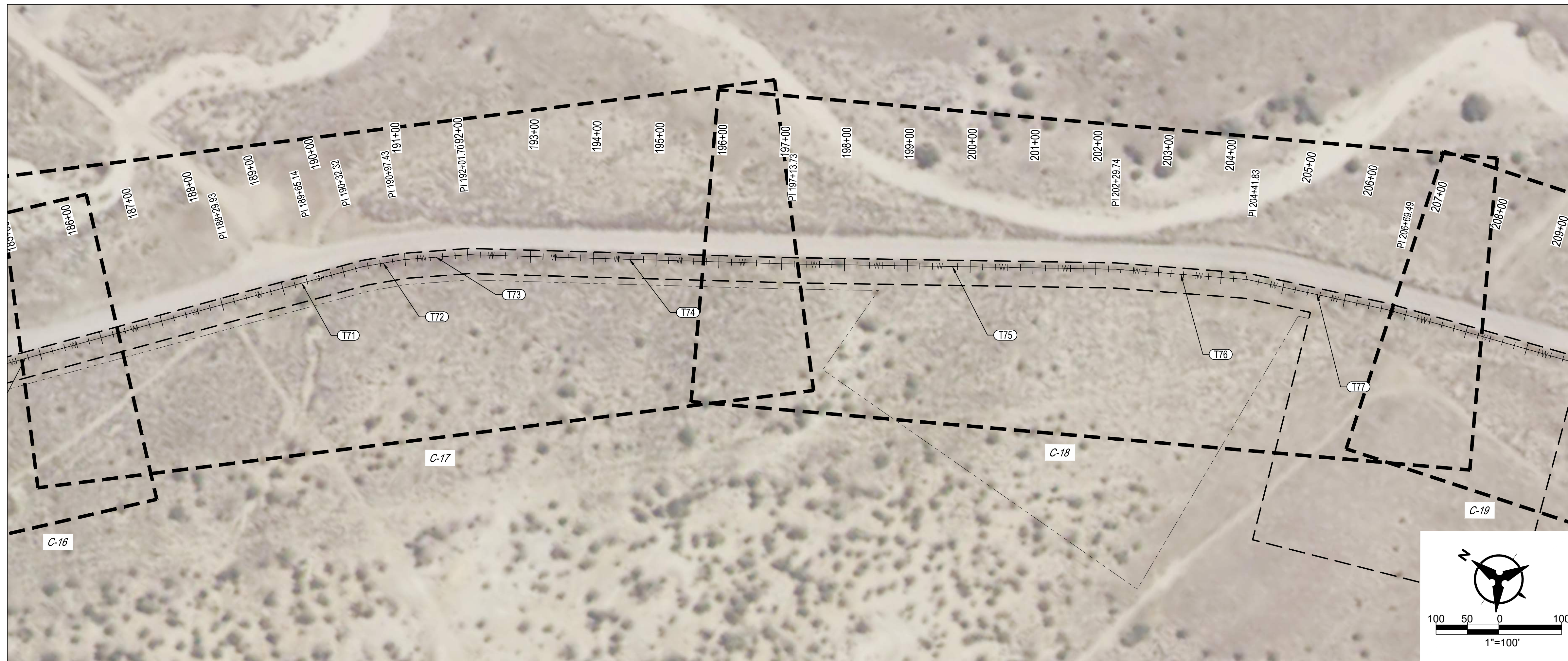
NO.	DATE	BY

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

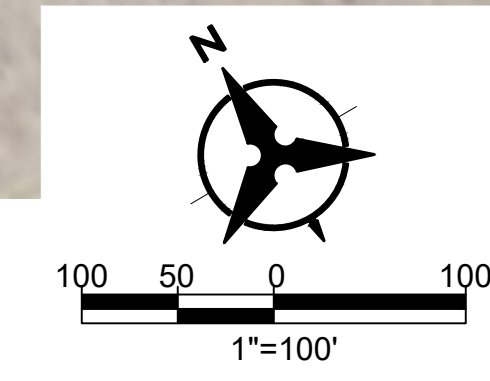
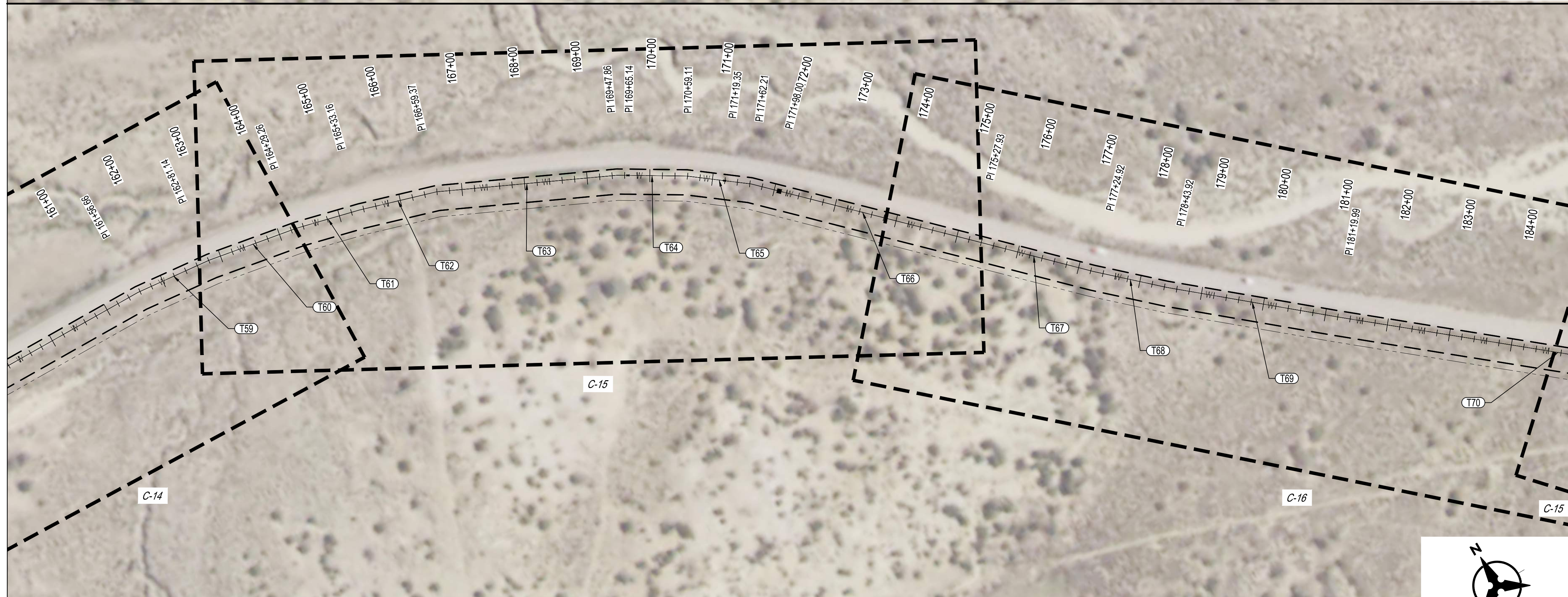


SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
HORIZONTAL LAYOUT [3 OF 5]

Tue, 16-Mar-2021 - 8:14 am, Plotted by: WSUSER
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REFER TO SHEET G-08



TANGENT TABLE		
ID	LENGTH	BEARING
T59	124.481	S83° 53' 32.68\"E
T60	148.115	S79° 39' 58.73\"E
T61	103.906	S75° 42' 51.88\"E
T62	126.203	S72° 50' 05.50\"E
T63	288.497	S64° 48' 22.36\"E
T64	111.244	S58° 52' 57.83\"E
T65	103.098	S52° 32' 08.09\"E
T66	365.725	S45° 15' 33.59\"E
T67	196.992	S45° 05' 33.55\"E
T68	119.000	S47° 18' 42.22\"E
T69	276.062	S49° 44' 39.33\"E
T70	709.948	S50° 23' 24.45\"E
T71	202.386	S50° 09' 59.64\"E
T72	65.112	S44° 57' 11.60\"E
T73	104.270	S39° 26' 14.77\"E
T74	512.026	S33° 27' 52.51\"E
T75	516.009	S34° 11' 25.76\"E
T76	212.097	S30° 37' 56.93\"E
T77	227.656	S22° 58' 33.66\"E

ENGINEER'S SEAL



AS-BUILT INFORMATION

CONTRACTOR	DATE	WORK STAMPED BY	DATE	INSPECTORS ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DESIGNING CORRECTED BY	DATE

REVISIONS

NO.	DATE	BY

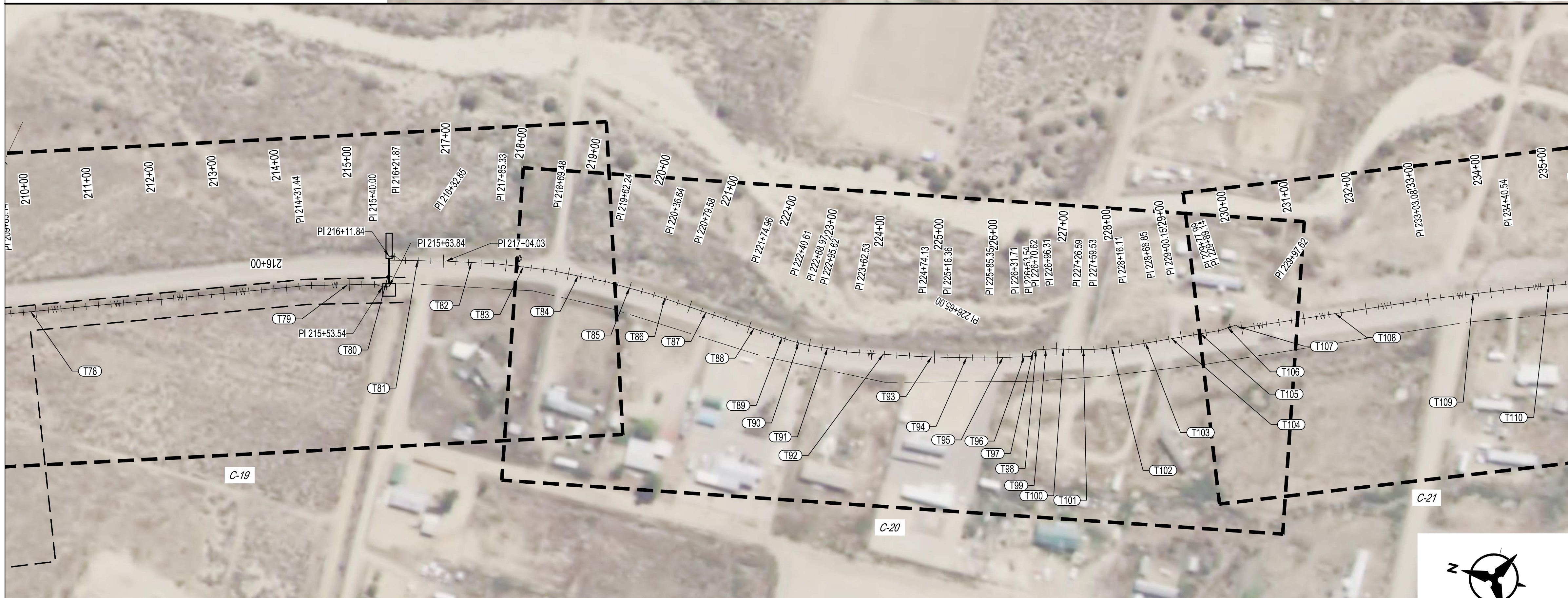
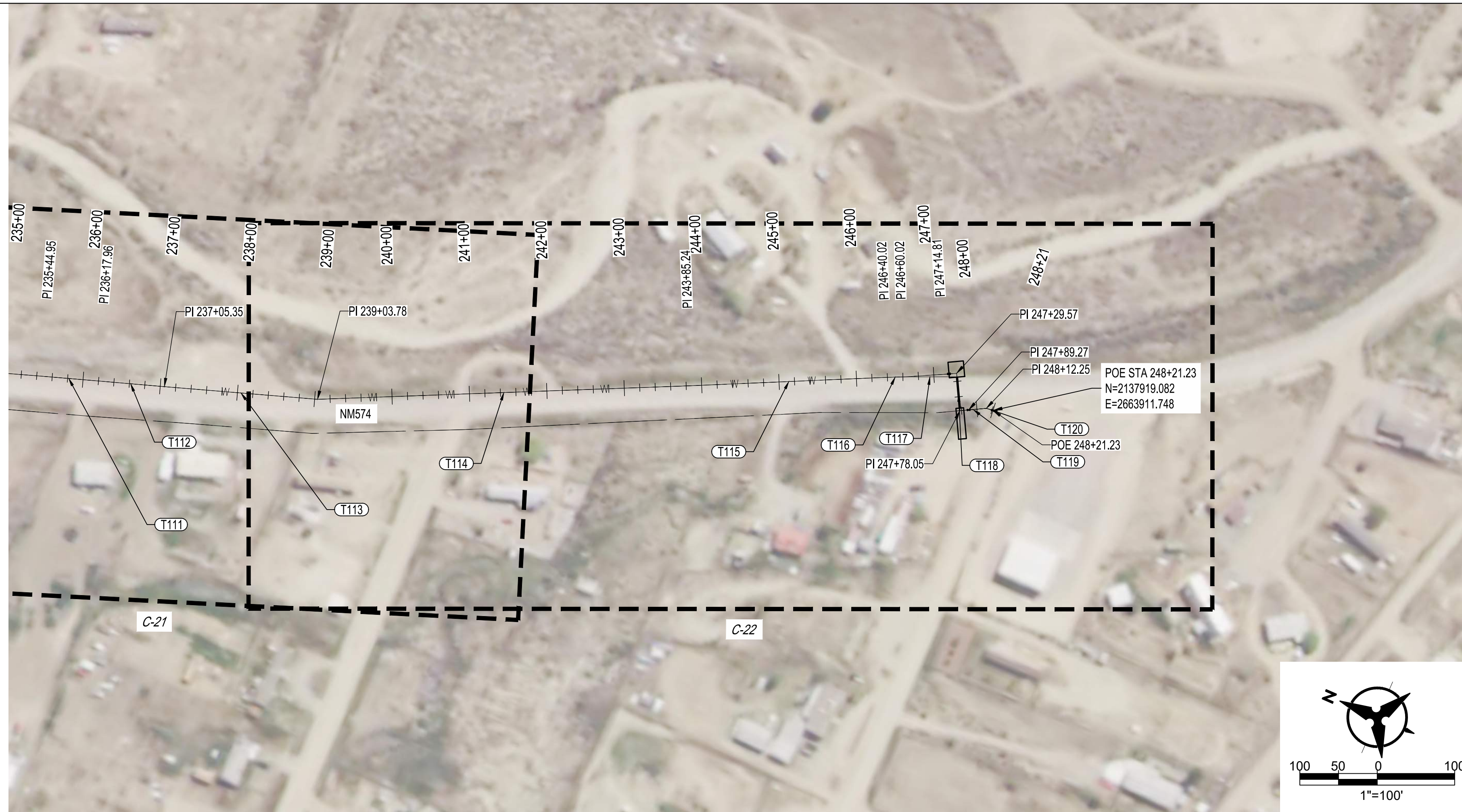
NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNERS TO MAKE
PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF
AN UNDISPUTED REQUEST FOR PAYMENT.



SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
HORIZONTAL LAYOUT [4 OF 5]

DESIGN	BS	AMS	NEC
DESIGNED BY			
CHECKED BY			
DRAWN BY			

Tue, 16-Mar-2021 - 8:15 am, Plotted by: WSUSER
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TANGENT TABLE		
ID	LENGTH	BEARING
T78	761.95	S19° 20' 11.59"E
T79	131.842	S15° 05' 18.06"E
T80	37.642	N76° 12' 44.34"E
T81	90.263	S13° 00' 47.05"E
T82	81.296	S10° 54' 16.22"E
T83	84.148	S07° 07' 22.34"E
T84	92.766	S02° 15' 53.27"E
T85	74.392	S01° 28' 48.12"W
T86	42.940	S04° 24' 05.06"W
T87	95.389	S04° 50' 17.04"W
T88	65.644	S04° 26' 53.90"W
T89	28.359	S03° 54' 45.21"W
T90	26.656	S01° 25' 32.99"W
T91	66.903	S04° 13' 29.80"E
T92	111.605	S10° 22' 34.62"E
T93	42.226	S12° 05' 18.13"E
T94	68.988	S12° 56' 59.92"E
T95	46.367	S15° 57' 51.56"E
T96	21.823	S16° 13' 47.07"E
T97	11.468	S76° 55' 26.35"E
T98	5.613	S16° 13' 47.07"E
T99	25.690	S18° 00' 12.67"E
T100	30.281	S10° 57' 26.55"E
T101	32.940	S14° 33' 19.09"E
T102	56.583	S19° 35' 35.28"E
T103	52.735	S23° 43' 39.93"E
T104	31.300	S23° 33' 55.43"E
T105	62.049	S23° 29' 41.65"E
T106	26.941	S32° 27' 08.67"E
T107	8.485	S22° 18' 09.84"W
T108	305.453	S22° 41' 50.16"E
T109	137.463	S20° 44' 47.70"E
T110	104.414	S19° 03' 20.42"E
T111	73.005	S18° 44' 09.48"E
T112	87.392	S18° 40' 39.37"E
T113	198.427	S18° 50' 49.07"E
T114	481.461	S25° 39' 49.11"E
T115	254.779	S26° 01' 52.59"E
T116	20.006	S25° 00' 57.51"E
T117	69.793	S23° 41' 46.65"E
T118	43.937	S61° 19' 12.77"W
T119	34.200	S28° 40' 47.23"E
T120	8.974	S05° 55' 49.56"E

ENGINEER'S SEAL



AS-BUILT INFORMATION

CONTRACTOR	DATE	WORK STAND BY	DATE	INSPECTORS ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DRAWINGS CORRECTED BY	DATE

REVISIONS

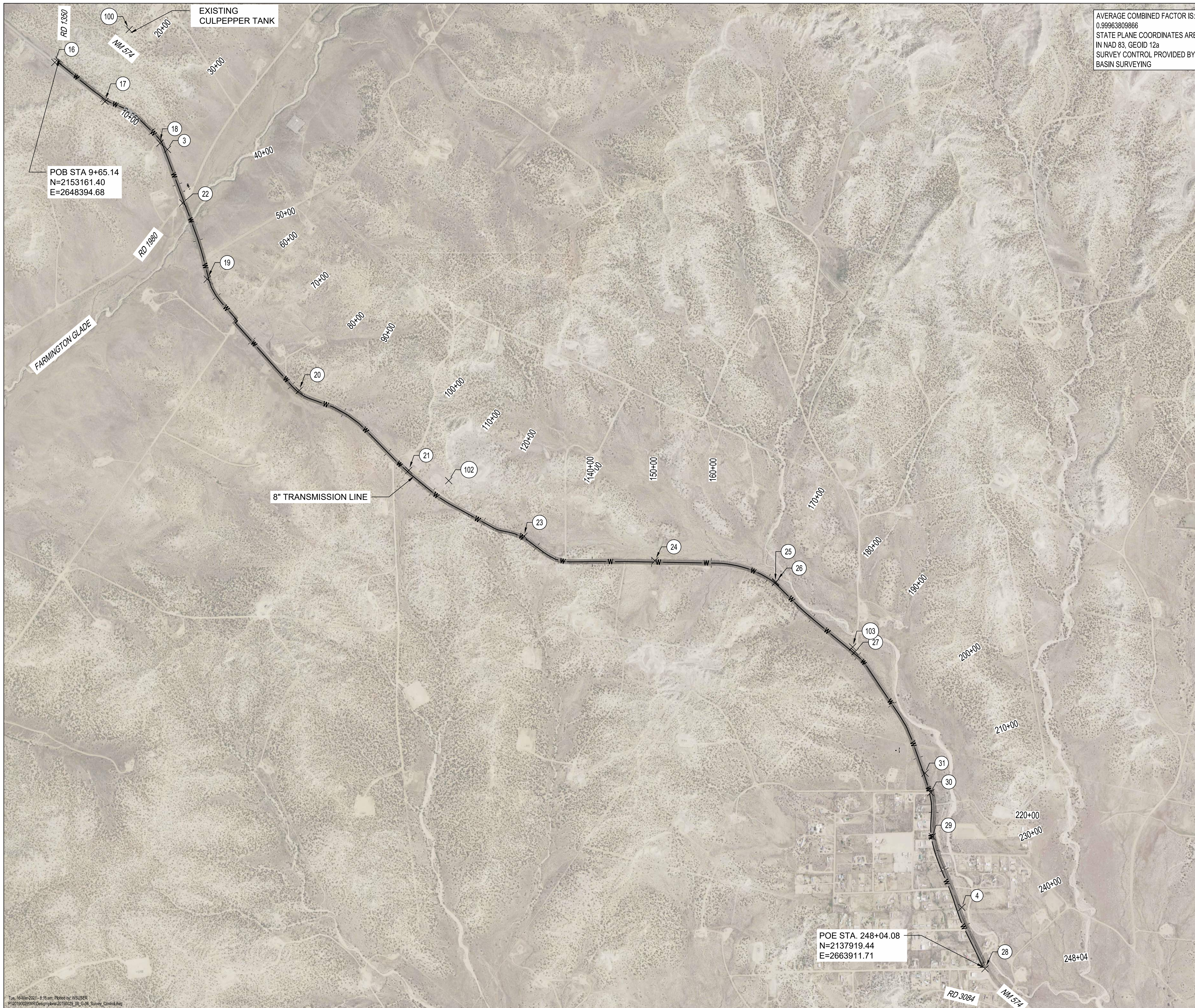
NO.	DATE	DESIGNED BY	CHECKED BY	DRAWN BY

NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNERS TO MAKE
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AN UNDISPUTED REQUEST FOR PAYMENT.



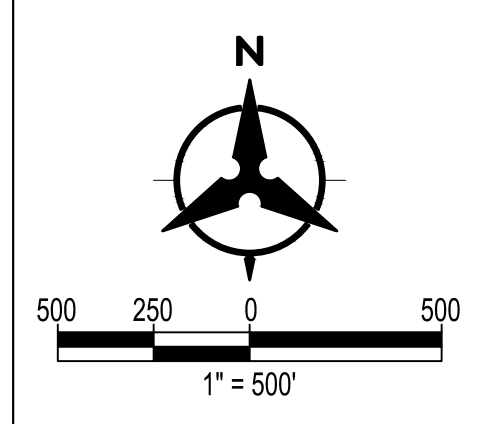
**SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
HORIZONTAL LAYOUT [5 OF 5]**

Tue, 16-Mar-2021 8:15 am, Plotted by: WSUSER
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AVERAGE COMBINED FACTOR IS:
0.99963809866
STATE PLANE COORDINATES ARE
IN NAD 83, GEOID 12a
SURVEY CONTROL PROVIDED BY
BASIN SURVEYING

POINT TABLE			
POINT#	NORTHING	EASTING	ELEVATION
3	2151653.96	2650214.68	6198.06
4	2138926.19	2663558.32	5927.89
16	2153114.01	2648323.24	6213.99
17	2152458.34	2649167.02	6280.15
18	2151759.73	2650090.53	6207.70
19	2149475.86	2650084.05	6159.69
20	2147603.75	2652426.72	6214.77
21	2146264.60	2654268.05	6289.01
22	2150754.92	2650472.93	6150.27
23	2145158.33	2656204.69	6208.18
24	2144747.28	2658403.04	6105.82
25	2144381.49	2660427.21	6059.19
26	2144392.07	2660434.35	6056.67
27	2143217.81	2661763.86	6024.09
28	2137897.12	2663948.16	5910.26
29	2140113.54	2663062.74	5955.70
30	2140853.19	2663036.74	5967.08
31	2141179.30	2662940.40	5972.31
100	2153666.20	2649573.16	6309.82
102	2146091.81	2654940.12	6310.43
103	2143297.67	2661724.89	6023.78



ENGINEER'S SEAL

AS-BUILT INFORMATION	
BY	DATE
CONTRACTOR	DATE
WORK STAMPED BY	DATE
INSPECTORS ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

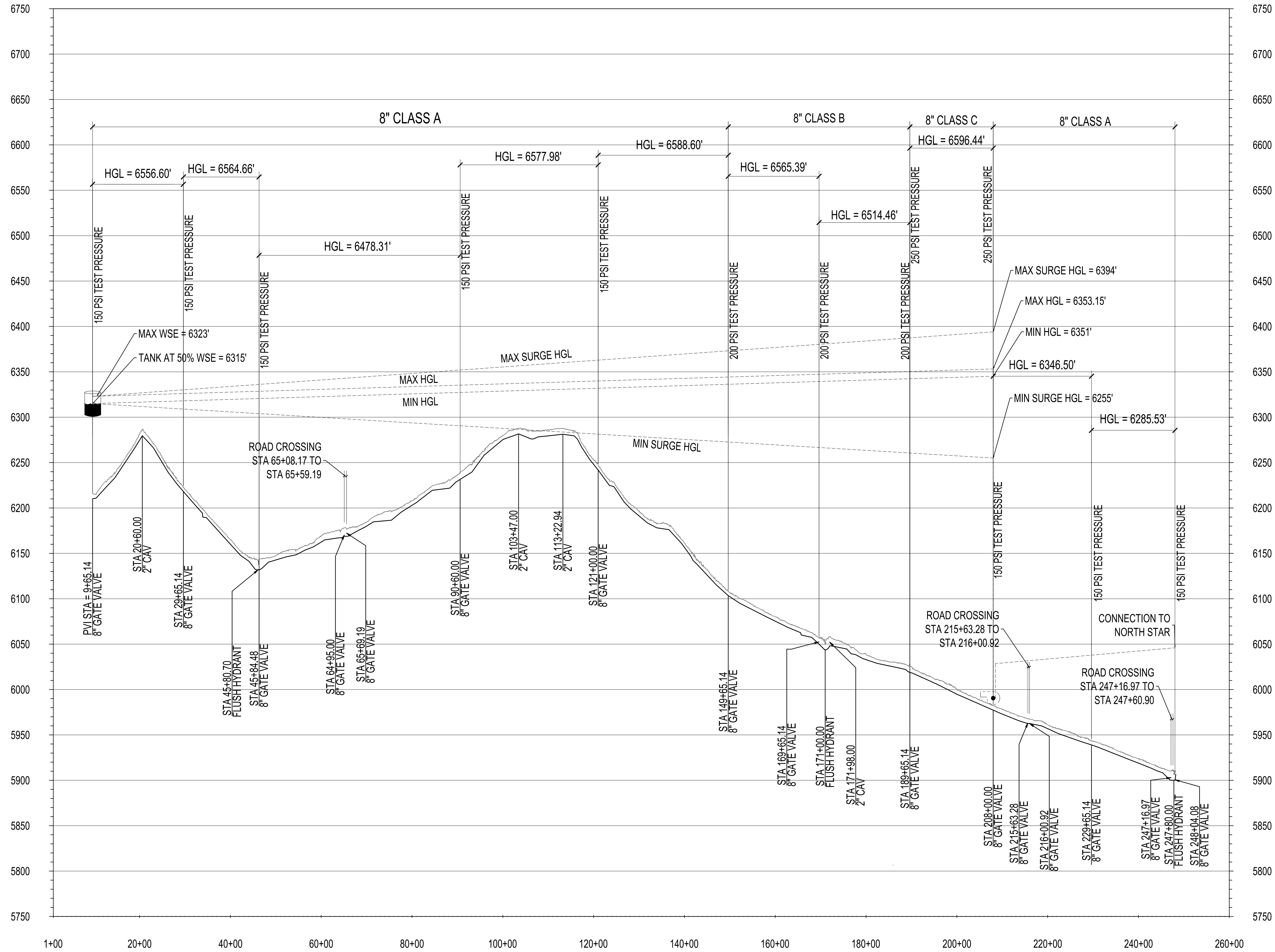
REVISIONS	
NO.	DATE

DESIGN	
DESIGNED BY	BS
CHECKED BY	AMS
DRAWN BY	NEC



**SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
SURVEY CONTROL**

Tue, 16 Mar 2021 - 8:16 am. Plotted by: WJL/SER
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GENERAL NOTES:

- CONTRACTOR SHALL SUBMIT HYDROSTATIC TESTING AND DISINFECTION PLAN 14 DAYS PRIOR TO CONDUCTING TESTS.
- CONTRACTOR SHALL TEST VALVE TO VALVE FOR A MINIMUM OF 2 HOURS PER NMPWSS SECTION 801.
- TEST PRESSURES AS INDICATED PER PLAN, THIS DRAWING.
- ANY WATER DISCHARGED FROM THE PIPELINE SHALL BE DE-CHLORINATED.
- ALL COSTS ASSOCIATED WITH TESTING AND DISINFECTION SHALL BE INCIDENTAL.
- ALL MATERIALS SHALL CONFORM TO NSF 61 AND ALL CHEMICALS ADDED TO THE SYSTEM CONFORM TO NSF 60.

PIPE SCHEDULE	
CLASS A	(150 TEST PRESSURE) C900 PVC - DR 25 HDPE - DR 13.5 DUCTILE IRON - PC 350
CLASS B	(200 TEST PRESSURE) C900 PVC - DR 18 HDPE - DR 11 DUCTILE IRON - PC 350
CLASS C	(250 TEST PRESSURE) C900 PVC - DR 14 HDPE - DR 9 DUCTILE IRON - PC 350

ENGINEER'S SEAL



AS-BUILT INFORMATION

CONTRACTOR	DATE	WORK STAND BY	DATE	INSPECTORS ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DESIGNING CORRECTED BY	DATE

REVISIONS

NO.	DATE	BY

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

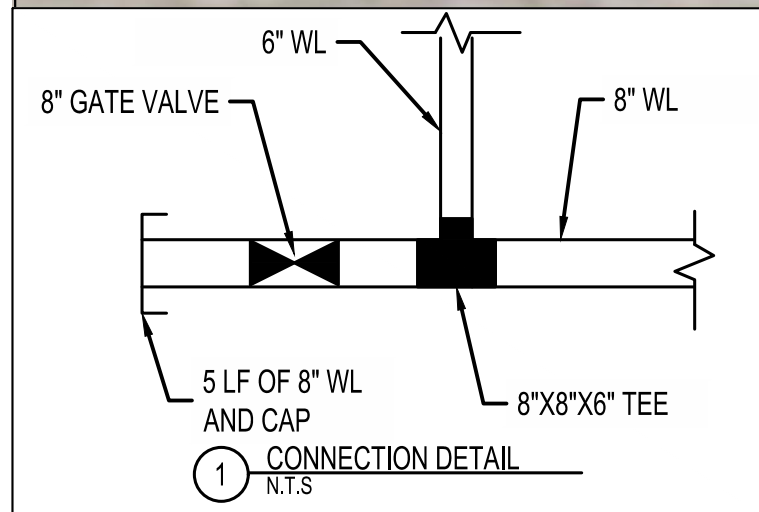
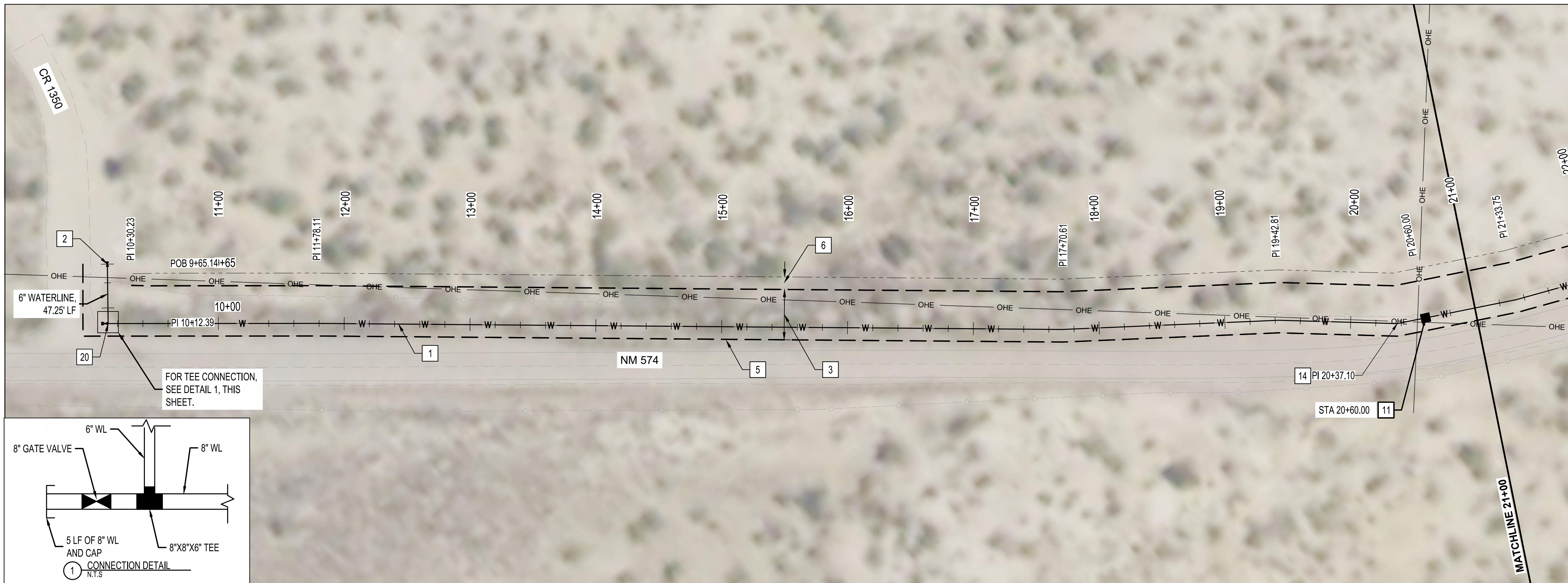


**SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
HYDRAULIC PROFILE**

BHI PROJECT NO.	20190029	DWG NO.	G-10	SHEET	10	OF	49
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Tue, 16-Mar-2021 8:17 am, Plotted by: WSUSER
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HORIZONTAL SCALE: 1" = 120'
VERTICAL SCALE: 1:50



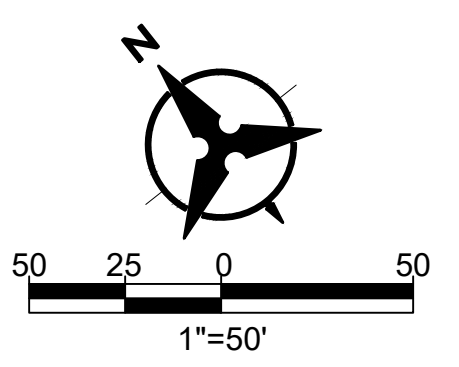
GENERAL NOTES:

- TRANSMISSION LINE SHALL BE CONSTRUCTED OF 8" C900 PVC, 8" HDPE OR 8" DUCTILE IRON.
- STATIONS SHOWN ARE ALONG CENTERLINE OF PIPE AND ELEVATIONS SHOWN ARE ALONG THE TOP OF PIPE.
- DO NOT DISTURB ROADWAY SURFACE WITHIN NM 574.
- REFER TO HORIZONTAL LAYOUT FOR ALIGNMENT INFORMATION.
- WORK SHALL BE CONDUCTED WITHIN EASEMENT LIMITS.
- REFER TO PROJECT TYPICAL SECTION / TRENCH DETAIL.
- CONTRACTOR SHALL PROVIDE 12" MIN CLEARANCE FOR CROSSING EXISTING UTILITIES.
- ALL WATERLINES SHALL BE 4' MIN BURY DEPTH.

KEYED NOTES:

*NOTE THAT NOT ALL KEYED NOTES BELOW ARE NECESSARILY USED ON THIS SHEET. SEE KEYED NOTE CALLOUTS ON PLAN FOR APPLICABLE KEYED NOTES.

- INSTALL 8" WATERLINE
- CONNECTION TO EXISTING 6" WATERLINE WITH TAPPING SADDLE
- NEW 40 FT WATERLINE EASEMENT
- APPROXIMATE NM574 EDGE OF PAVEMENT
- EASEMENT COINCIDES WITH EDGE OF PAVEMENT
- TEMPORARY 10 FT CONSTRUCTION EASEMENT
- HORIZONTAL DIRECTIONAL DRILLING
- LIMITS OF PUMP STATION EASEMENT
- INSTALL CAV PER NMPWSS STD DWG 2350
- INSTALL 8" GATE VALVE
- INSTALL BELOW GRADE FLUSH HYDRANT PER DETAIL 2 ON DWG NO. D-03
- INSTALL 8" - 11.25" HORIZONTAL BEND
- INSTALL 8" - 22.5" HORIZONTAL BEND
- INSTALL 8" - 45" HORIZONTAL BEND
- INSTALL 8" - 90" HORIZONTAL BEND
- NOT USED
- ARROYO CROSSING
- INSTALL 8" X 8" X 6" TEE, INCLUDE VALVE AND 5 LF OF 8" WL CAPPED TO WEST FOR FUTURE CONNECTION.
- JACK AND BORE
- BORING PIT, 40' X 10'
- RECEIVING PIT, 20' X 20'
- INSTALL VACUUM BREAKER AIR VALVE PER STD DWG. 2350
- INSTALL 1" SERVICE LINE, METER BOX AND ASSEMBLY (FIELD LOCATE BY OWNER) PER STD DWGS 2362, 2366, AND 2369.

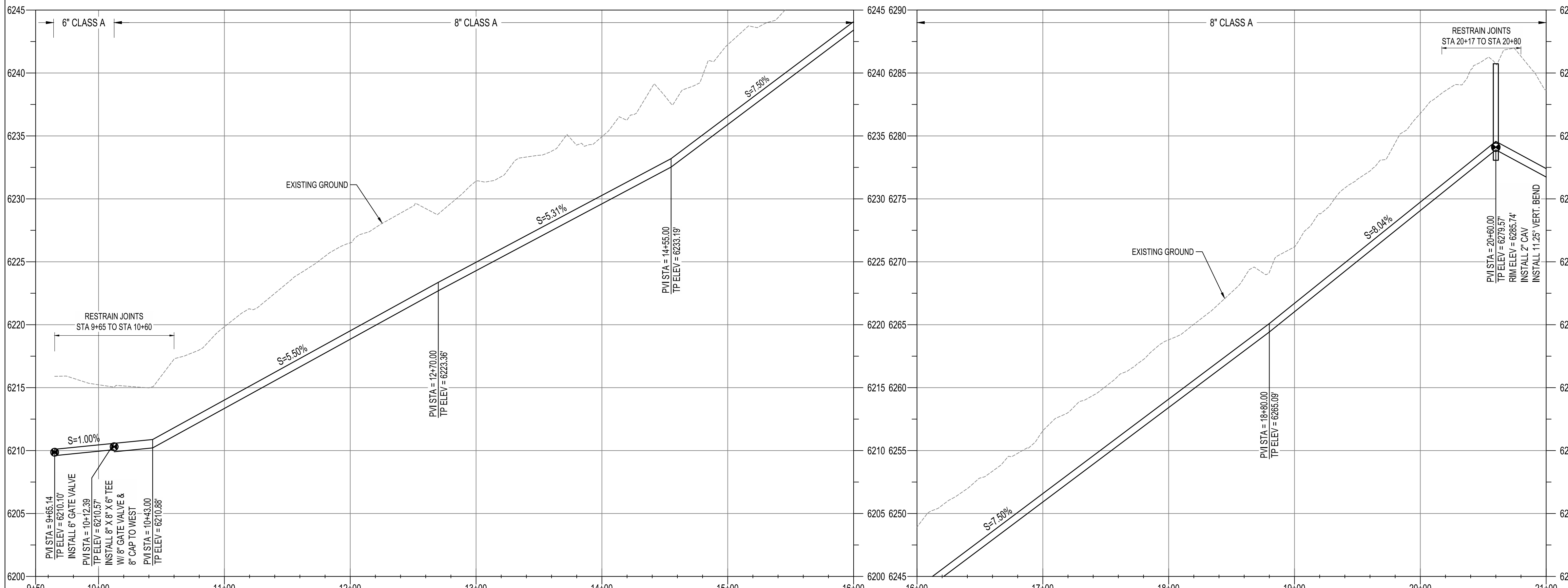


ENGINEER'S SEAL



AS-BUILT INFORMATION

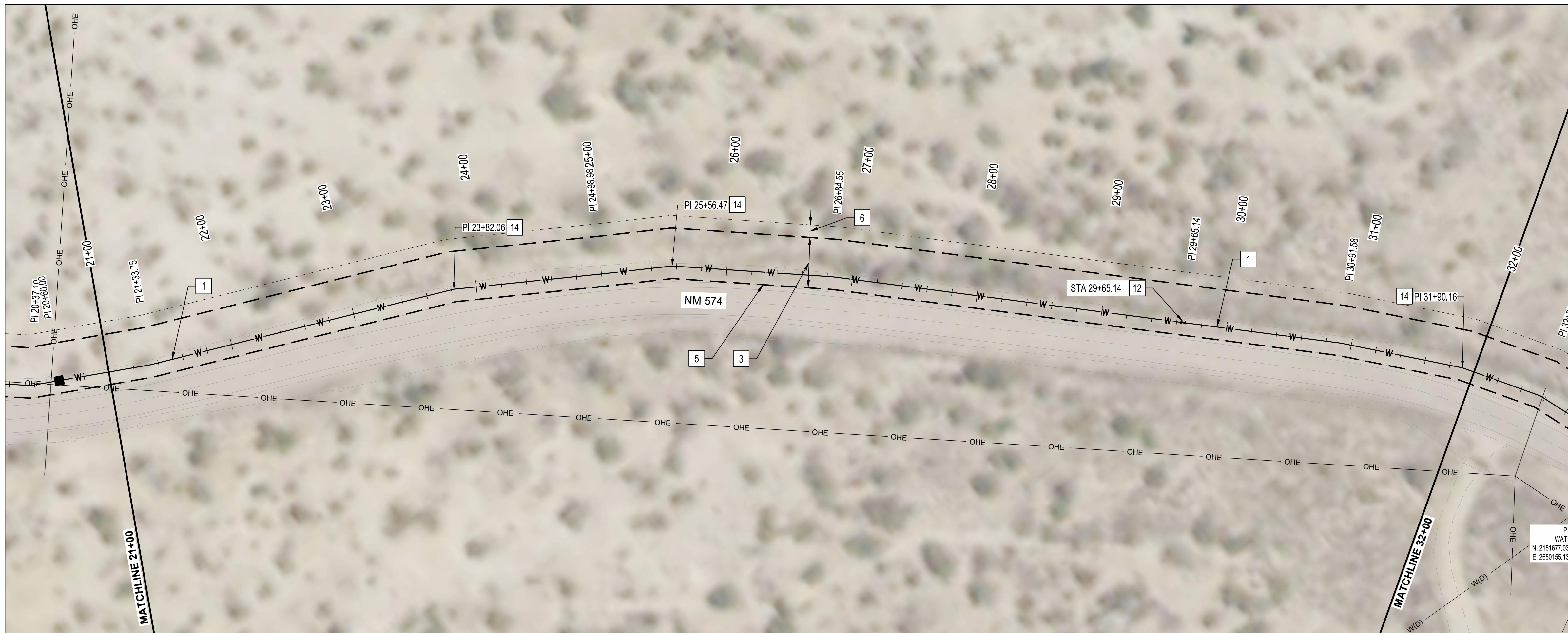
NO.	DATE	REVISIONS		DESIGN	
		BY	DATE	DESIGNED BY	DRAWN BY
				BS	
				CHECKED BY	AMS
				DRAWN BY	NEC



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



**SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
STA 10+00 TO STA 21+00 PLAN AND PROFILE**



GENERAL NOTES:

1. TRANSMISSION LINE SHALL BE CONSTRUCTED OF 8" C900 PVC, 8" HDPE OR 8" DUCTILE IRON.
2. STATIONS SHOWN ARE ALONG CENTERLINE OF PIPE AND ELEVATIONS SHOWN ARE ALONG THE TOP OF PIPE.
3. DO NOT DISTURB ROADWAY SURFACE WITHIN NM 574.
4. REFER TO HORIZONTAL LAYOUT FOR ALIGNMENT INFORMATION.
5. WORK SHALL BE CONDUCTED WITHIN EASEMENT LIMITS.
6. REFER TO PROJECT TYPICAL SECTION / TRENCH DETAIL.
7. CONTRACTOR SHALL PROVIDE 12" MIN CLEARANCE FOR CROSSING EXISTING UTILITIES.
8. ALL WATERLINES SHALL BE 4' MIN BURY DEPTH.

KEYED NOTES:

*NOTE THAT NOT ALL KEYED NOTES BELOW ARE NECESSARILY USED ON THIS SHEET. SEE KEYED NOTE CALLOUTS ON PLAN FOR APPLICABLE KEYED NOTES.

- 1 INSTALL 8" WATERLINE
- 2 CONNECTION TO EXISTING 6" WATERLINE WITH TAPPING SADDLE
- 3 NEW 40 FT WATERLINE EASEMENT
- 4 APPROXIMATE NM574 EDGE OF PAVEMENT
- 5 EASEMENT COINCIDES WITH EDGE OF PAVEMENT
- 6 TEMPORARY 10 FT CONSTRUCTION EASEMENT
- 7 HORIZONTAL DIRECTIONAL DRILLING
- 8 LIMITS OF PUMP STATION EASEMENT
- 11 INSTALL CAV PER NMPWSS STD DWG 2350
- 12 INSTALL 8" GATE VALVE
- 13 INSTALL BELOW GRADE FLUSH HYDRANT PER DETAIL 2 ON DWG NO. D-03
- 14 INSTALL 8" - 11.25° HORIZONTAL BEND
- 15 INSTALL 8" - 22.5° HORIZONTAL BEND
- 16 INSTALL 8" - 45° HORIZONTAL BEND
- 17 INSTALL 8" - 90° HORIZONTAL BEND
- 18 NOT USED
- 19 ARROYO CROSSING
- 20 INSTALL 8" X 8" X 6" TEE, INCLUDE VALVE AND 5 LF OF 8" WL CAPPED TO WEST FOR FUTURE CONNECTION.
- 22 JACK AND BORE
- 23 BORING PIT, 40' X 10'
- 24 RECEIVING PIT, 20' X 20'
- 25 INSTALL VACUUM BREAKER AIR VALVE PER STD DWG. 2350
- 26 INSTALL 1" SERVICE LINE, METER BOX AND ASSEMBLY (FIELD LOCATE BY OWNER) PER STD DWGS 2362, 2366, AND 2369.

ENGINEER'S SEAL



AS-BUILT INFORMATION

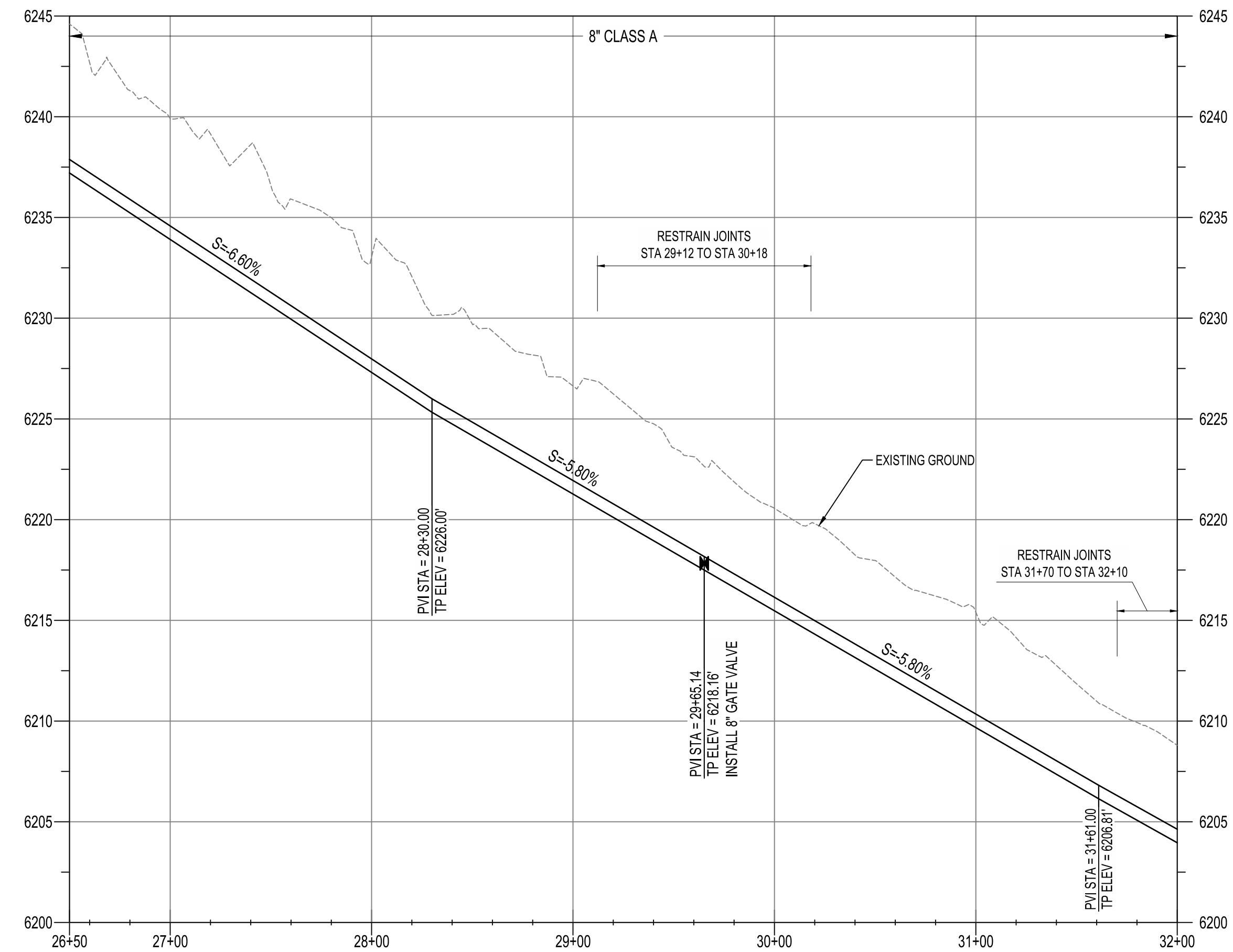
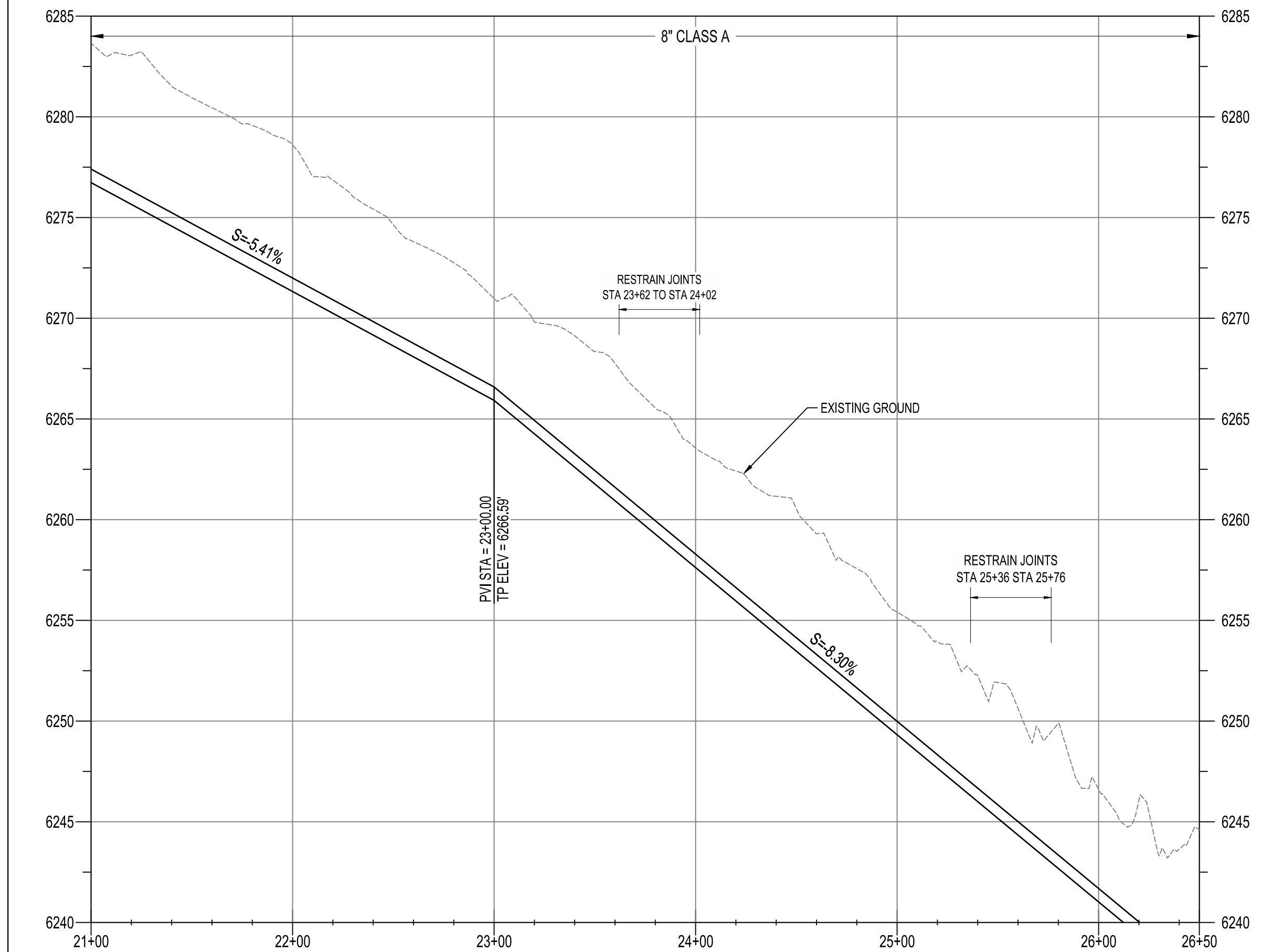
CONTRACTOR	DATE	WORK STAMPED BY	DATE	INSPECTORS ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DRAWINGS CORRECTED BY	DATE

REVISIONS

NO.	DATE	BY

DESIGN

DESIGNED BY	CHECKED BY	DRAWN BY
BS	AMS	BEC



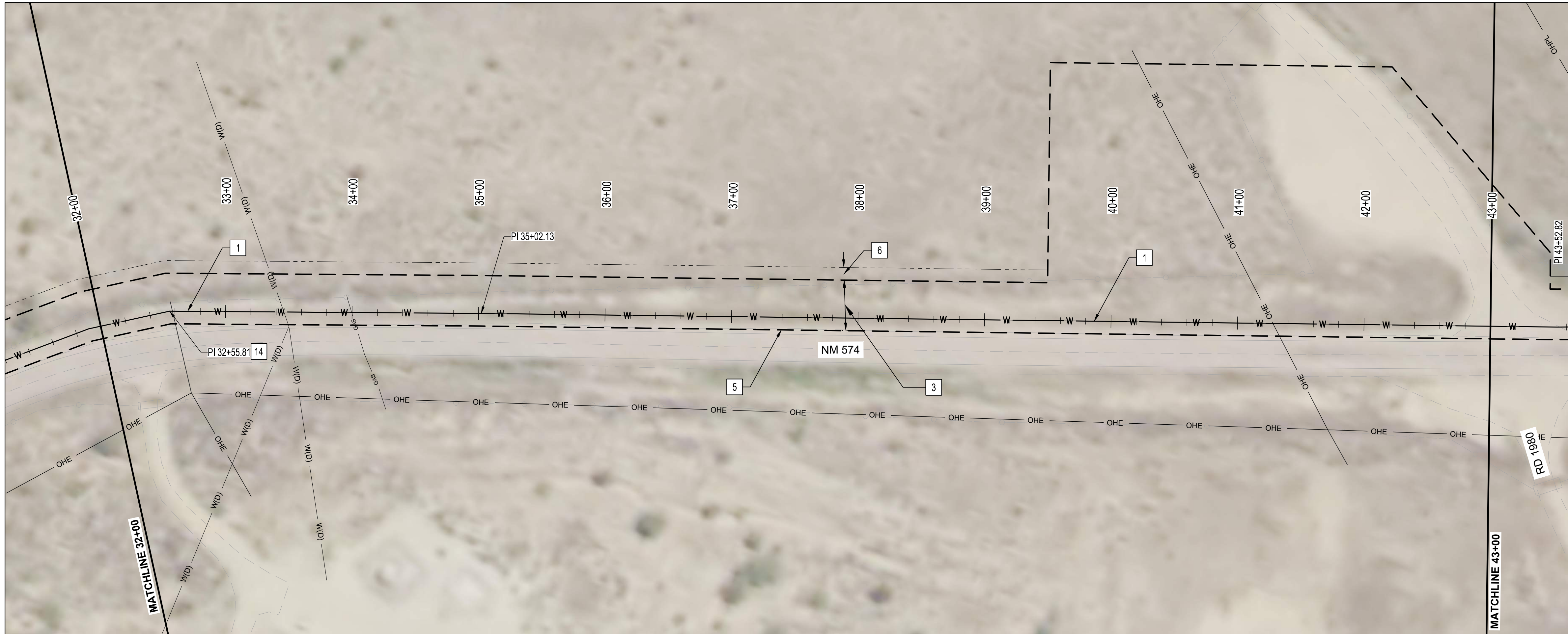
NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNERS TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
STA 21+00 TO STA 32+00 PLAN AND PROFILE

Tue, 16-Mar-2021 - 8:19 am, Plotted by: WLSUSER
P:\20190029\WR\Design\plans\C-2-E_Culpepper Phase 1 Alignment.dwg

VERTICAL SCALE: 1"=5'



GENERAL NOTES:

1. TRANSMISSION LINE SHALL BE CONSTRUCTED OF 8" C900 PVC, 8" HDPE OR 8" DUCTILE IRON.
2. STATIONS SHOWN ARE ALONG CENTERLINE OF PIPE AND ELEVATIONS SHOWN ARE ALONG THE TOP OF PIPE.
3. DO NOT DISTURB ROADWAY SURFACE WITHIN NM 574.
4. REFER TO HORIZONTAL LAYOUT FOR ALIGNMENT INFORMATION.
5. WORK SHALL BE CONDUCTED WITHIN EASEMENT LIMITS.
6. REFER TO PROJECT TYPICAL SECTION / TRENCH DETAIL.
7. CONTRACTOR SHALL PROVIDE 12" MIN CLEARANCE FOR CROSSING EXISTING UTILITIES.
8. ALL WATERLINES SHALL BE 4' MIN BURY DEPTH.

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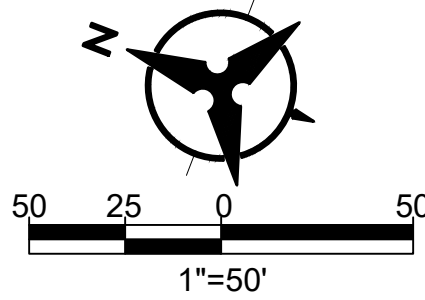
- 1 INSTALL 8" WATERLINE
- 2 CONNECTION TO EXISTING 6" WATERLINE WITH TAPPING SADDLE
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- 5 EASEMENT COINCIDES WITH EDGE OF PAVEMENT
- 6 TEMPORARY 10 FT CONSTRUCTION EASEMENT
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- 8 LIMITS OF PUMP STATION EASEMENT
- 11 INSTALL CAV PER NMPWSS STD DWG 2350
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- 13 INSTALL BELOW GRADE FLUSH HYDRANT PER DETAIL 2 ON DWG NO. D-03
- 14 INSTALL 8" - 11.25° HORIZONTAL BEND
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- 16 INSTALL 8" - 45° HORIZONTAL BEND
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- 20 INSTALL 8" X 8" X 6" TEE, INCLUDE VALVE AND 5 LF OF 8" WL CAPPED TO WEST FOR FUTURE CONNECTION.
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- 23 BORING PIT, 40' X 10'
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- 26 INSTALL 1" SERVICE LINE, METER BOX AND ASSEMBLY (FIELD LOCATE BY OWNER) PER STD DWGS 2362, 2366, AND 2369.

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



**SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
STA 32+00 TO STA 43+00 PLAN AND PROFILE**

BHI PROJECT NO.	20190029	DWG NO.	C-03	SHEET	13	OF	49
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ENGINEER'S SEAL



AS-BUILT INFORMATION

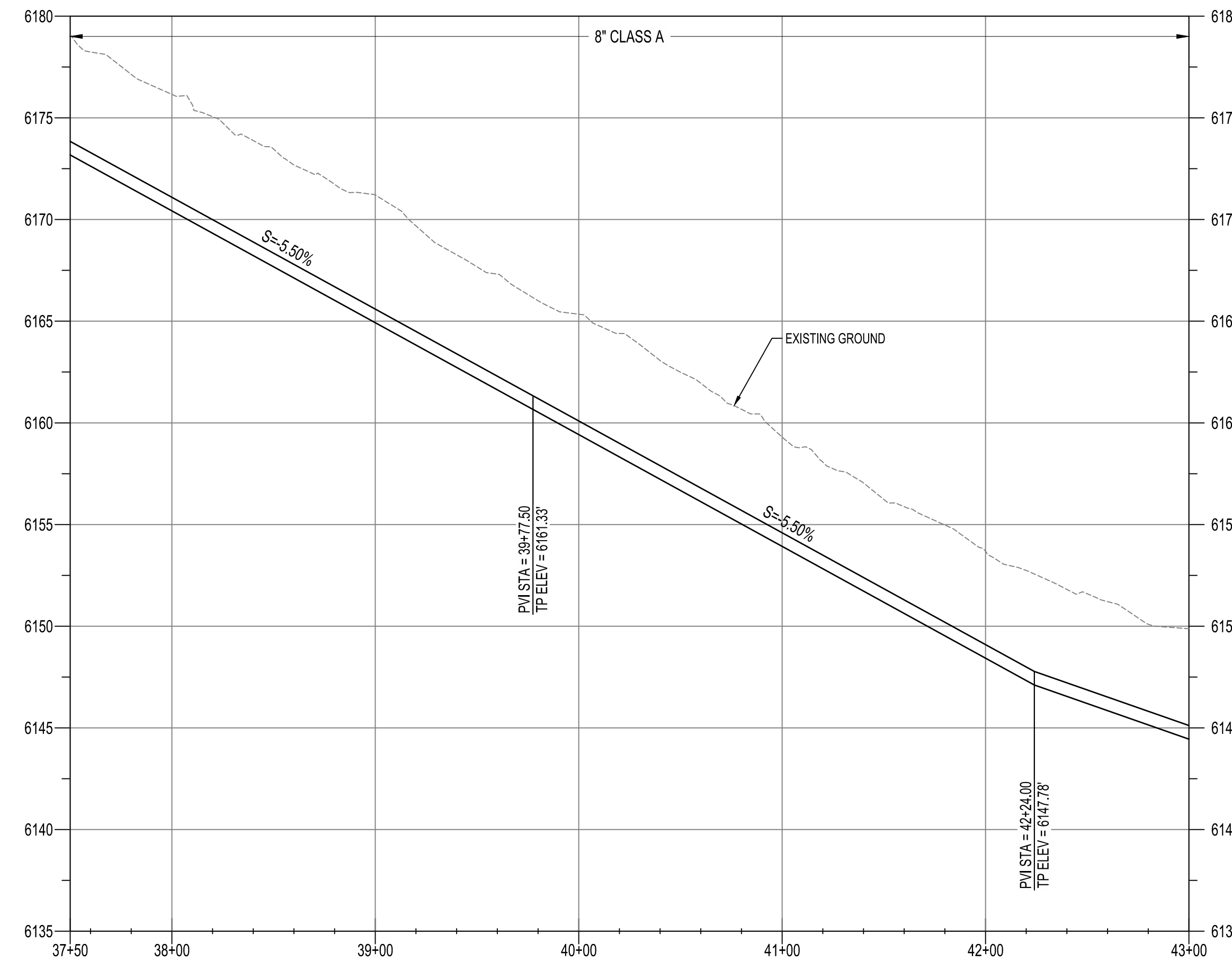
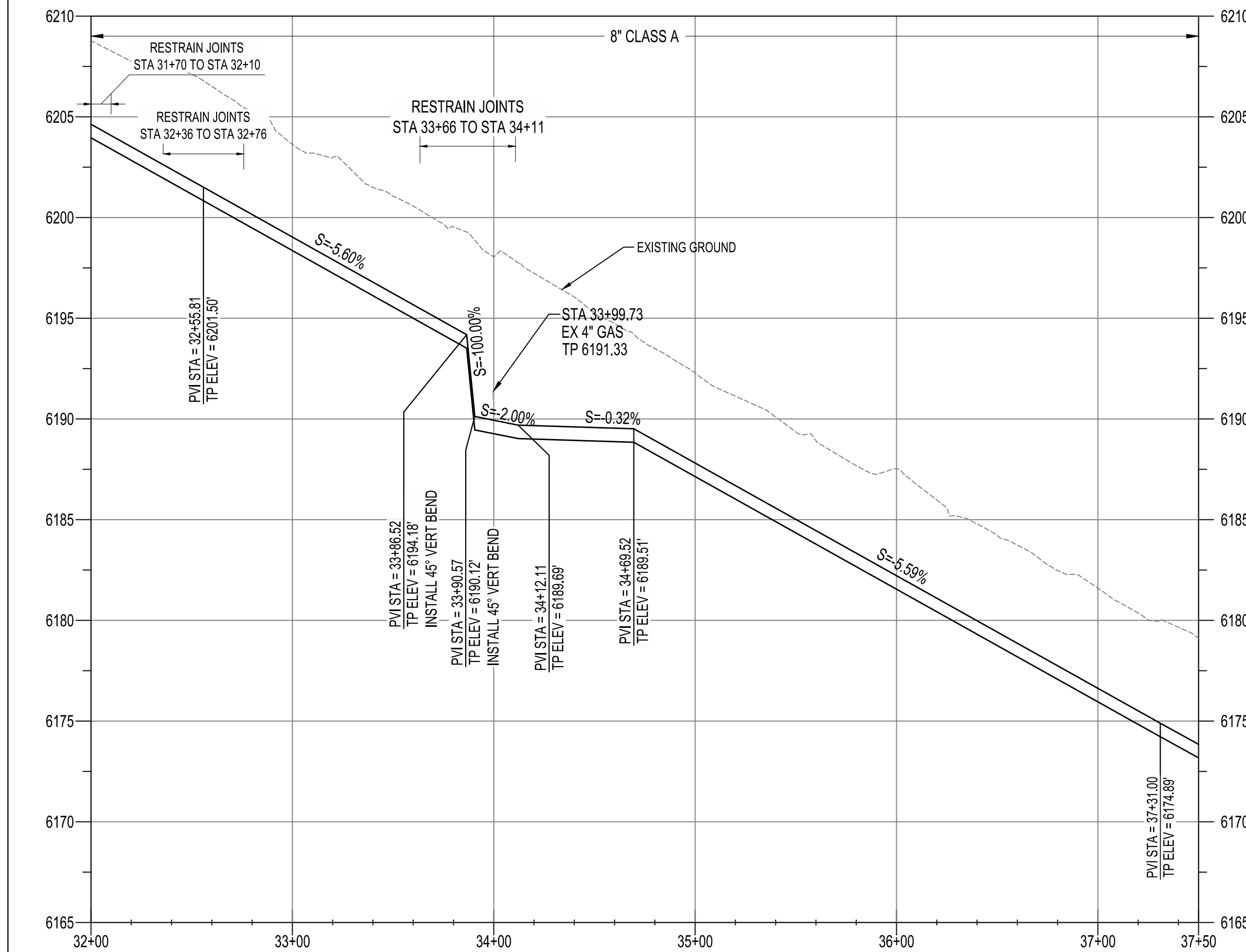
CONTRACTOR	DATE	WORK STAND BY	DATE	INSPECTORS ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DRAWINGS CORRECTED BY	DATE

REVISIONS

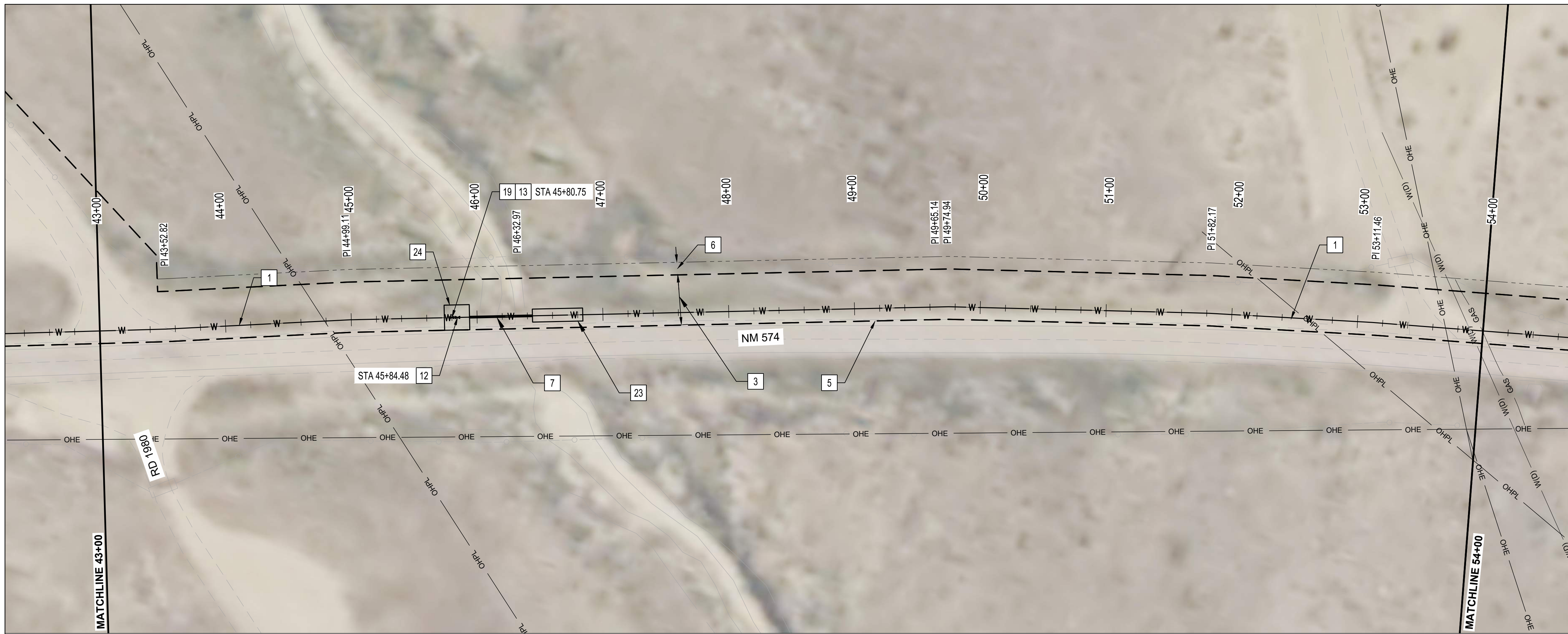
NO.	DATE	BY

DESIGN

DESIGNED BY	BS	CHECKED BY	AMS	DRAWN BY	NEC
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VERTICAL SCALE: 1"=5'



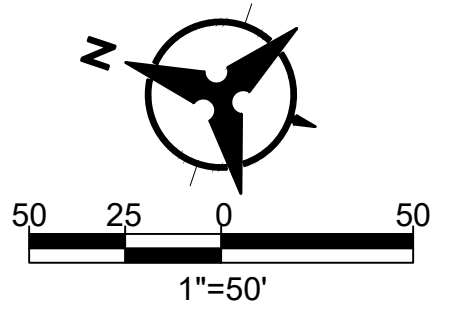
GENERAL NOTES:

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- STATIONS SHOWN ARE ALONG CENTERLINE OF PIPE AND ELEVATIONS SHOWN ARE ALONG THE TOP OF PIPE.
- DO NOT DISTURB ROADWAY SURFACE WITHIN NM 574.
- REFER TO HORIZONTAL LAYOUT FOR ALIGNMENT INFORMATION.
- WORK SHALL BE CONDUCTED WITHIN EASEMENT LIMITS.
- REFER TO PROJECT TYPICAL SECTION / TRENCH DETAIL.
- CONTRACTOR SHALL PROVIDE 12" MIN CLEARANCE FOR CROSSING EXISTING UTILITIES.
- ALL WATERLINES SHALL BE 4' MIN BURY DEPTH.

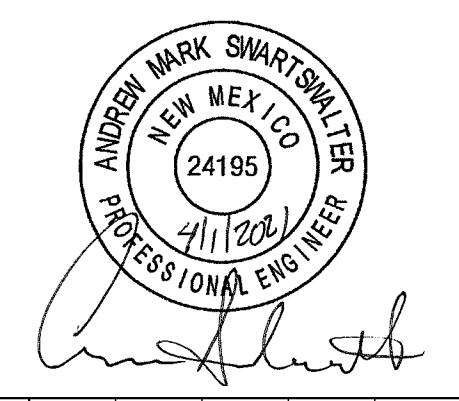
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ENGINEER'S SEAL



AS-BUILT INFORMATION

CONTRACTOR	DATE	WORK STAND BY	DATE	INSPECTORS	DATE	ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DRAWINGS CORRECTED BY	DATE

REVISIONS

NO.	DATE	BY

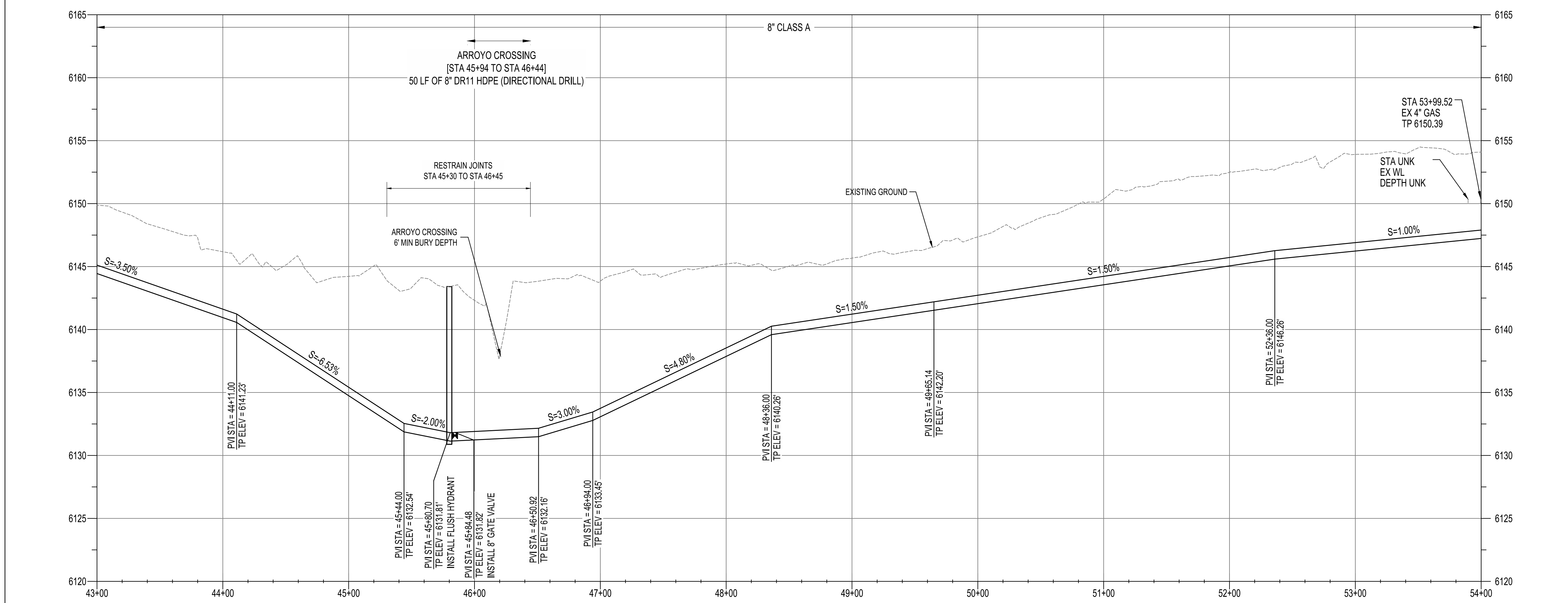
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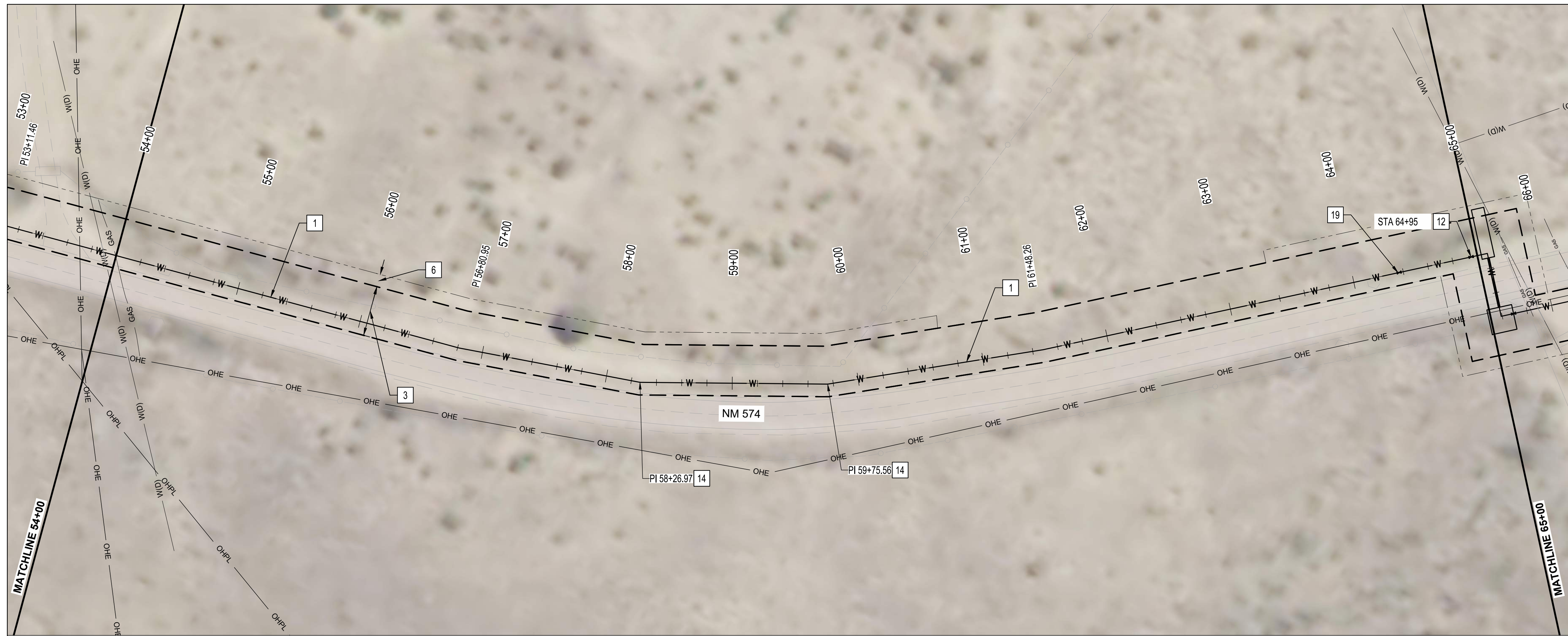
DESIGNED BY	CHECKED BY	DRAWN BY
BS	AMS	NEC

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



SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
STA 43+00 TO STA 54+00 PLAN AND PROFILE





GENERAL NOTES:

1. TRANSMISSION LINE SHALL BE CONSTRUCTED OF 8" C900 PVC, 8" HDPE OR 8" DUCTILE IRON.
2. STATIONS SHOWN ARE ALONG CENTERLINE OF PIPE AND ELEVATIONS SHOWN ARE ALONG THE TOP OF PIPE.
3. DO NOT DISTURB ROADWAY SURFACE WITHIN NM 574.
4. REFER TO HORIZONTAL LAYOUT FOR ALIGNMENT INFORMATION.
5. WORK SHALL BE CONDUCTED WITHIN EASEMENT LIMITS.
6. REFER TO PROJECT TYPICAL SECTION / TRENCH DETAIL.
7. CONTRACTOR SHALL PROVIDE 12" MIN CLEARANCE FOR CROSSING EXISTING UTILITIES.
8. ALL WATERLINES SHALL BE 4' MIN BURY DEPTH.

KEYED NOTES:

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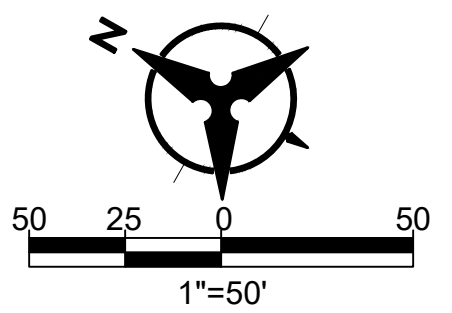
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NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNERS TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
STA 54+00 TO STA 65+00 PLAN AND PROFILE

BHI PROJECT NO.	20190029	DWG NO.	C-05	SHEET	15	OF	49
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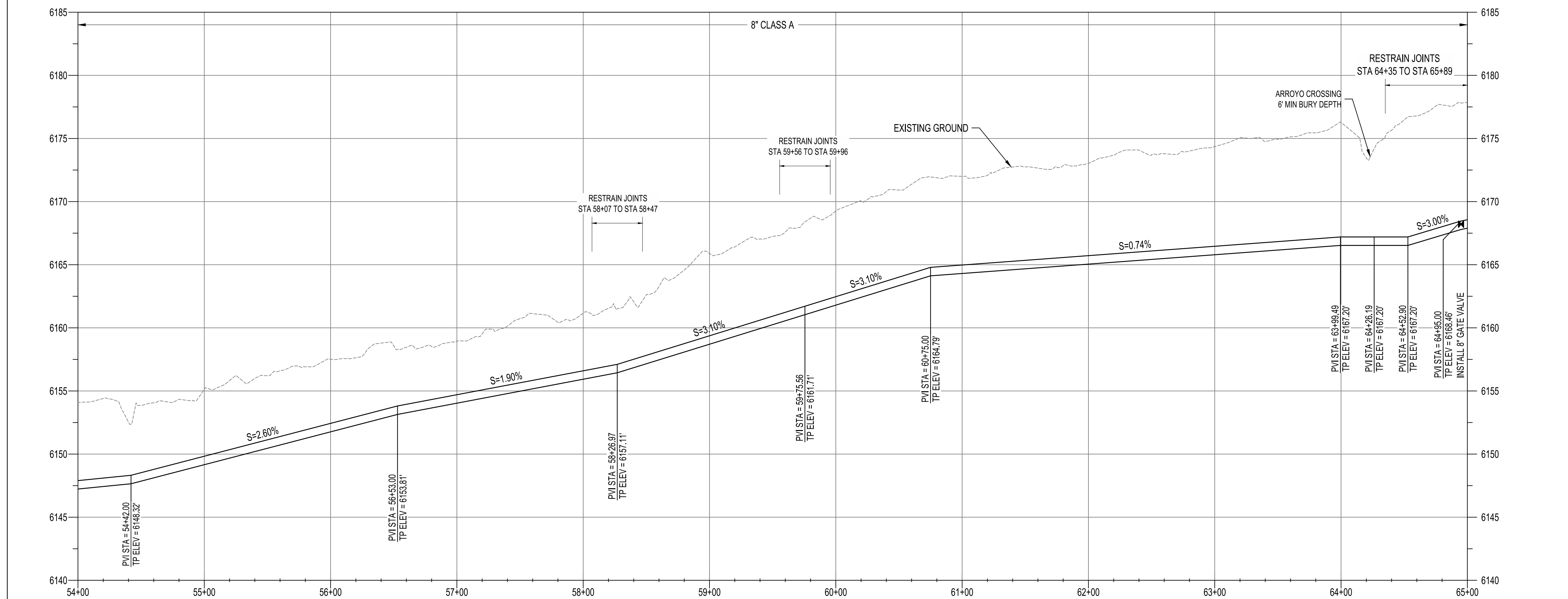


ENGINEER'S SEAL



AS-BUILT INFORMATION

NO.	DATE	REVISIONS			
		DESIGNED BY	CHECKED BY	DRAWN BY	DATE
		BS	AMS	NEC	



VERTICAL SCALE: 1"=5'



GENERAL NOTES:

- TRANSMISSION LINE SHALL BE CONSTRUCTED OF 8" C900 PVC, 8" HDPE OR 8" DUCTILE IRON.
- STATIONS SHOWN ARE ALONG CENTERLINE OF PIPE AND ELEVATIONS SHOWN ARE ALONG THE TOP OF PIPE.
- DO NOT DISTURB ROADWAY SURFACE WITHIN NM 574.
- REFER TO HORIZONTAL LAYOUT FOR ALIGNMENT INFORMATION.
- WORK SHALL BE CONDUCTED WITHIN EASEMENT LIMITS.
- REFER TO PROJECT TYPICAL SECTION / TRENCH DETAIL.
- CONTRACTOR SHALL PROVIDE 12" MIN CLEARANCE FOR CROSSING EXISTING UTILITIES.
- ALL WATERLINES SHALL BE 4' MIN BURY DEPTH.

KEYED NOTES:

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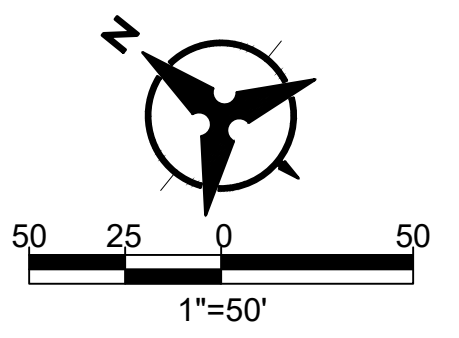
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NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNERS TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



**SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
STA 65+00 TO STA 76+00 PLAN AND PROFILE**

BHI PROJECT NO.	20190029	DWG NO.	C-06	SHEET	16	OF	49
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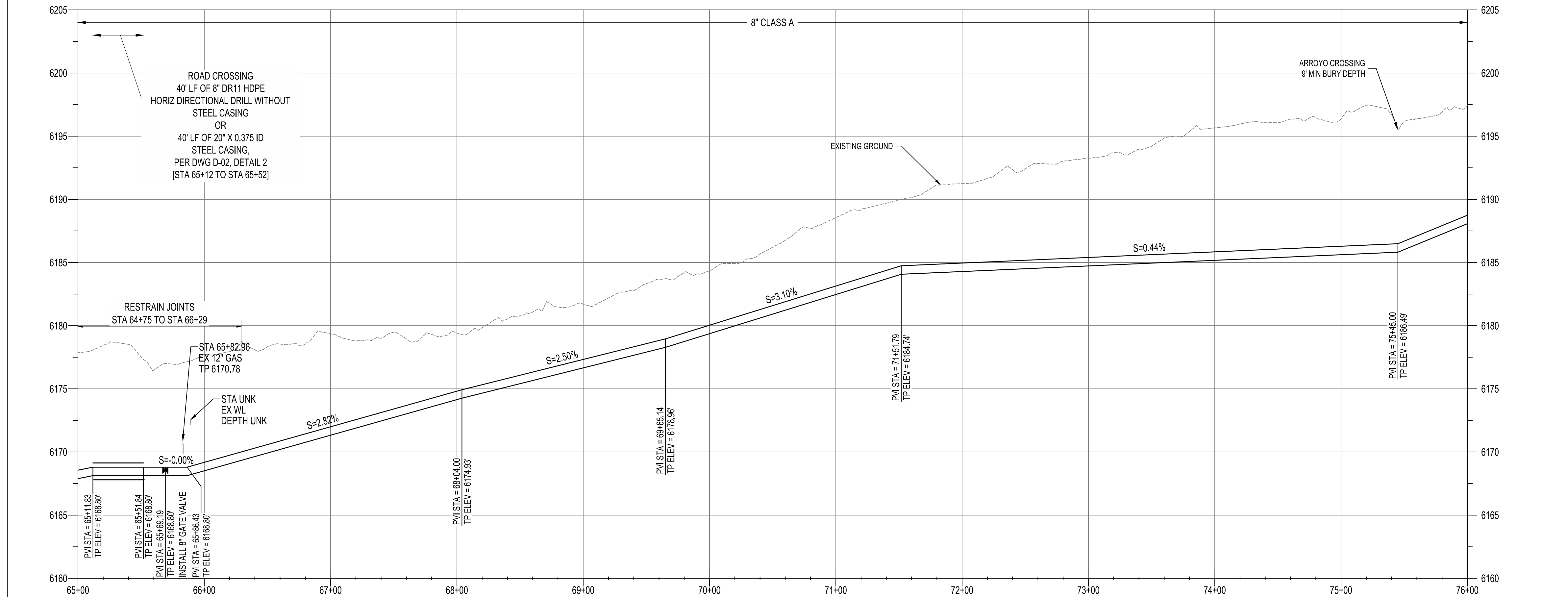


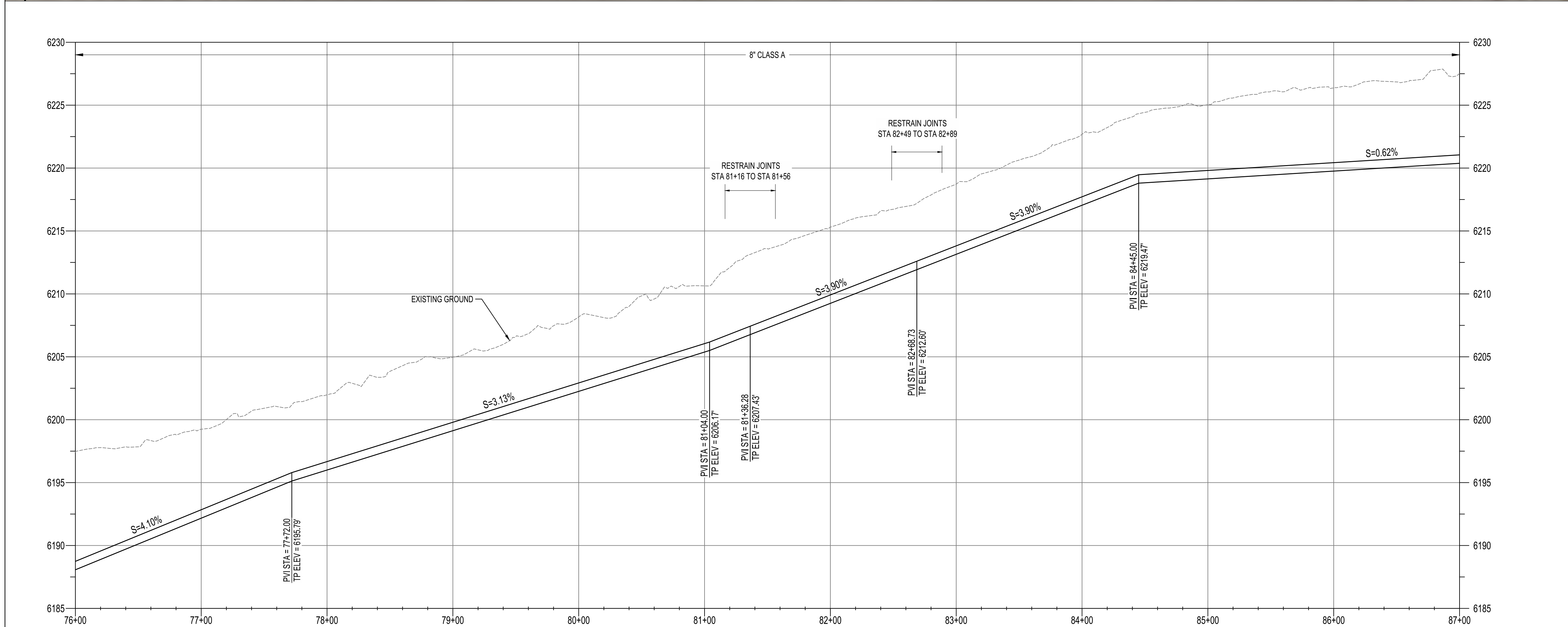
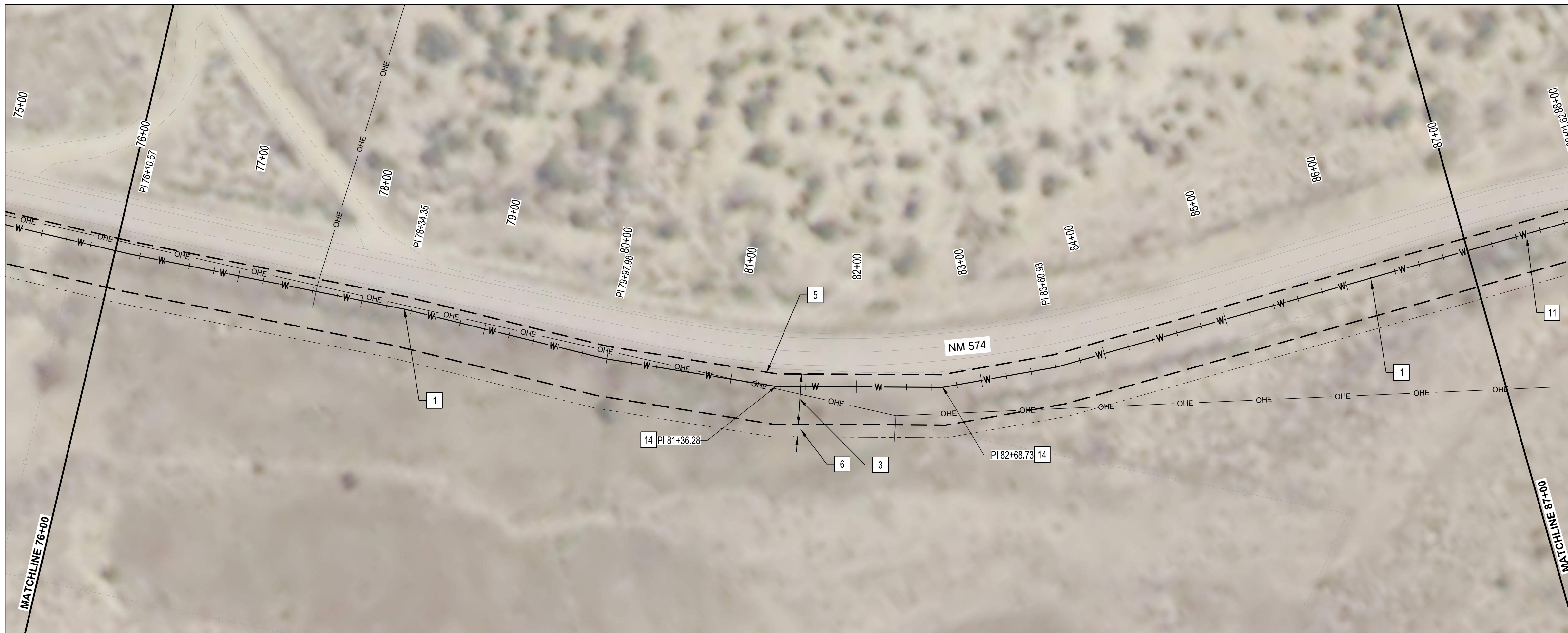
ENGINEER'S SEAL



AS-BUILT INFORMATION

NO.	DATE	DESIGN	REVISIONS
BY	CONTRACTOR	DATE	DATE
	WORK STAND BY	DATE	DATE
	INSPECTORS ACCEPTANCE BY	DATE	DATE
	FIELD VERIFICATION BY	DATE	DATE
	DRAWINGS CORRECTED BY	DATE	DATE





GENERAL NOTES:

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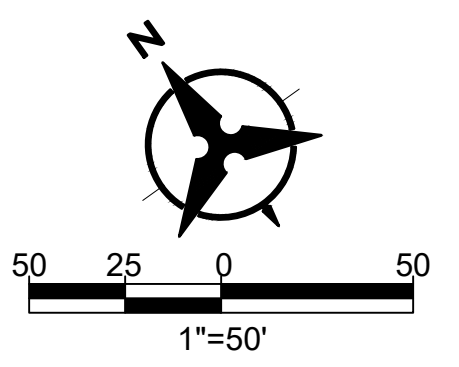
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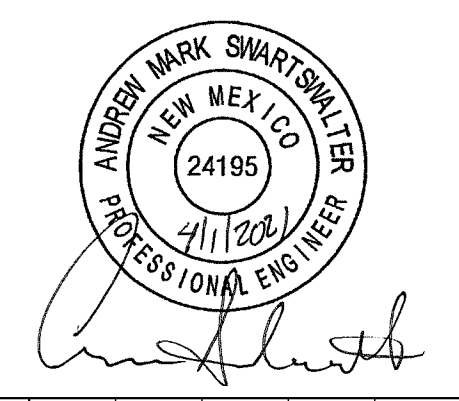
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SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
STA 76+00 TO STA 87+00 PLAN AND PROFILE



ENGINEER'S SEAL



AS-BUILT INFORMATION

CONTRACTOR	DATE	WORK STAND BY	DATE	INSPECTORS ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DRAWINGS CORRECTED BY	DATE

REVISIONS

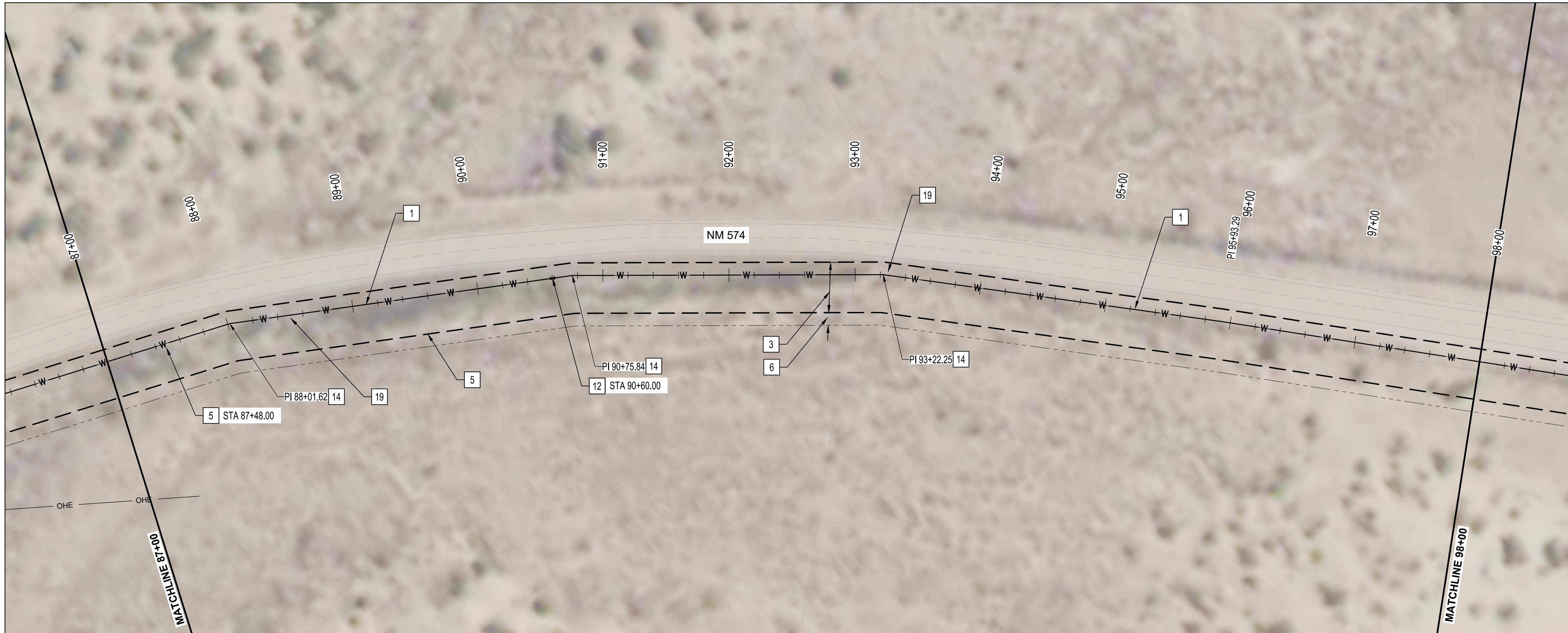
NO.	DATE	BY	REVISIONS

DESIGN

DESIGNED BY	CHECKED BY	DRAWN BY
BS	AMS	NEC

Tue, 16-Mar-2021 - 8:25 am, Plotted by: WSUSER
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VERTICAL SCALE: 1"=5'



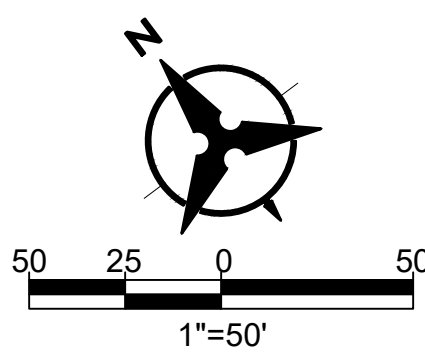
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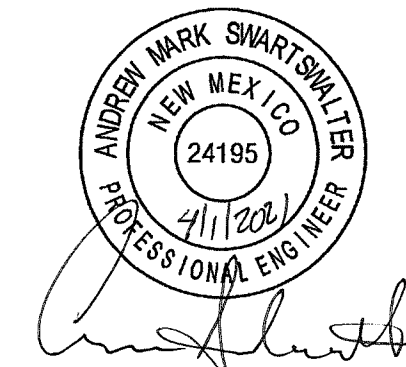
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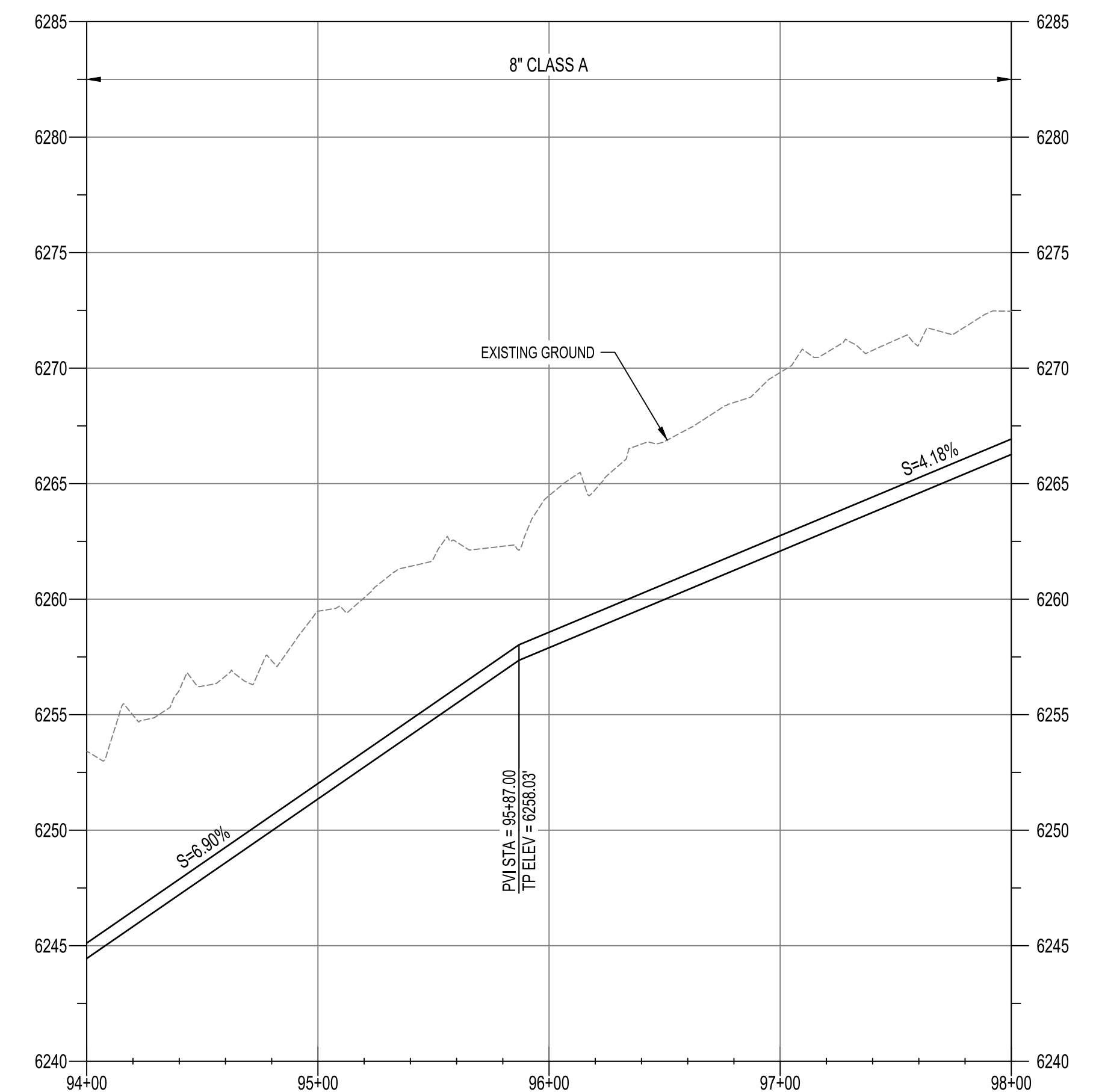
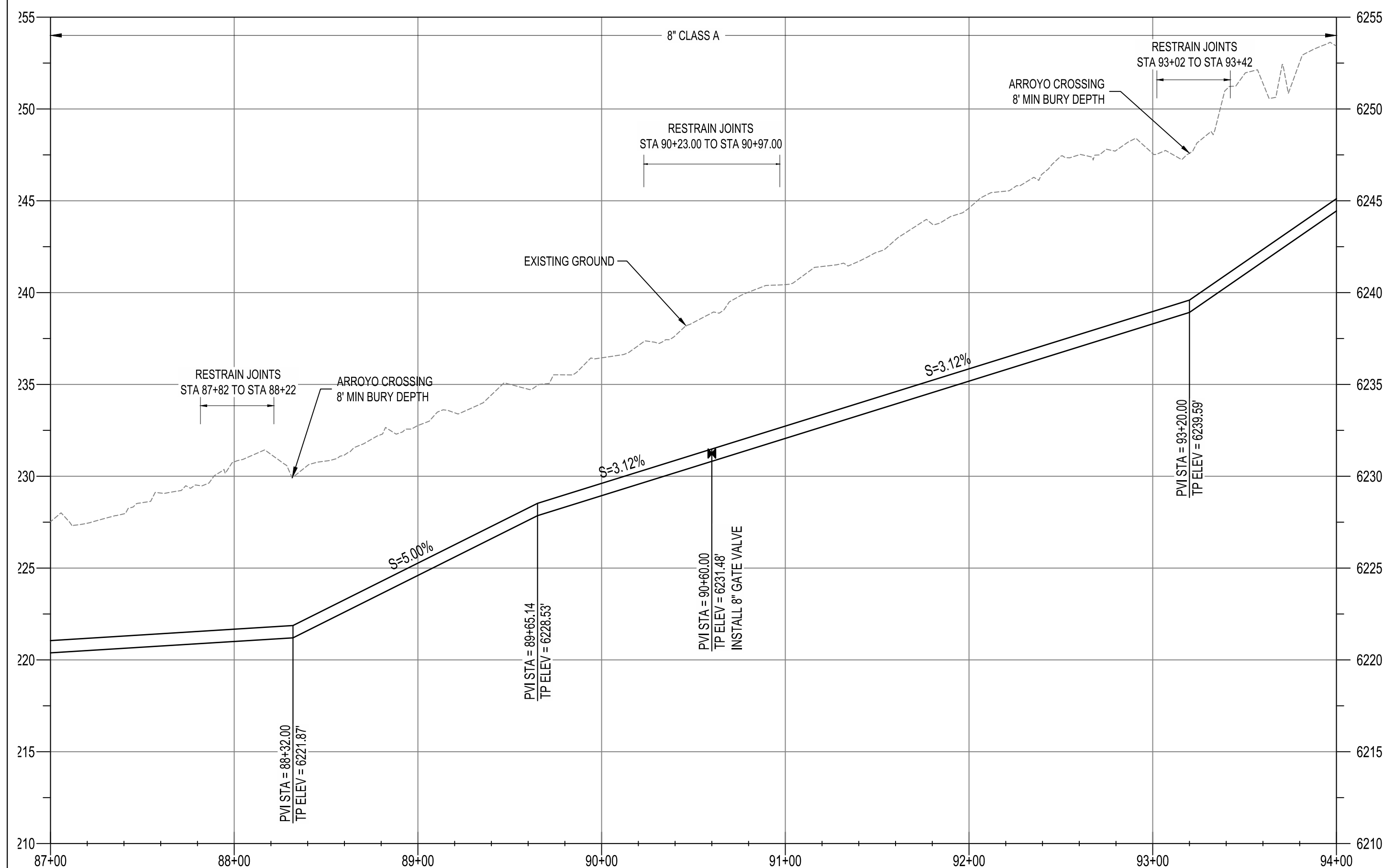


ENGINEER'S SEAL



AS-BUILT INFORMATION

NO.	DATE	BY			
		CONTRACTOR	WORK STAMPED BY	INSPECTORS ACCEPTANCE BY	FIELD VERIFICATION BY

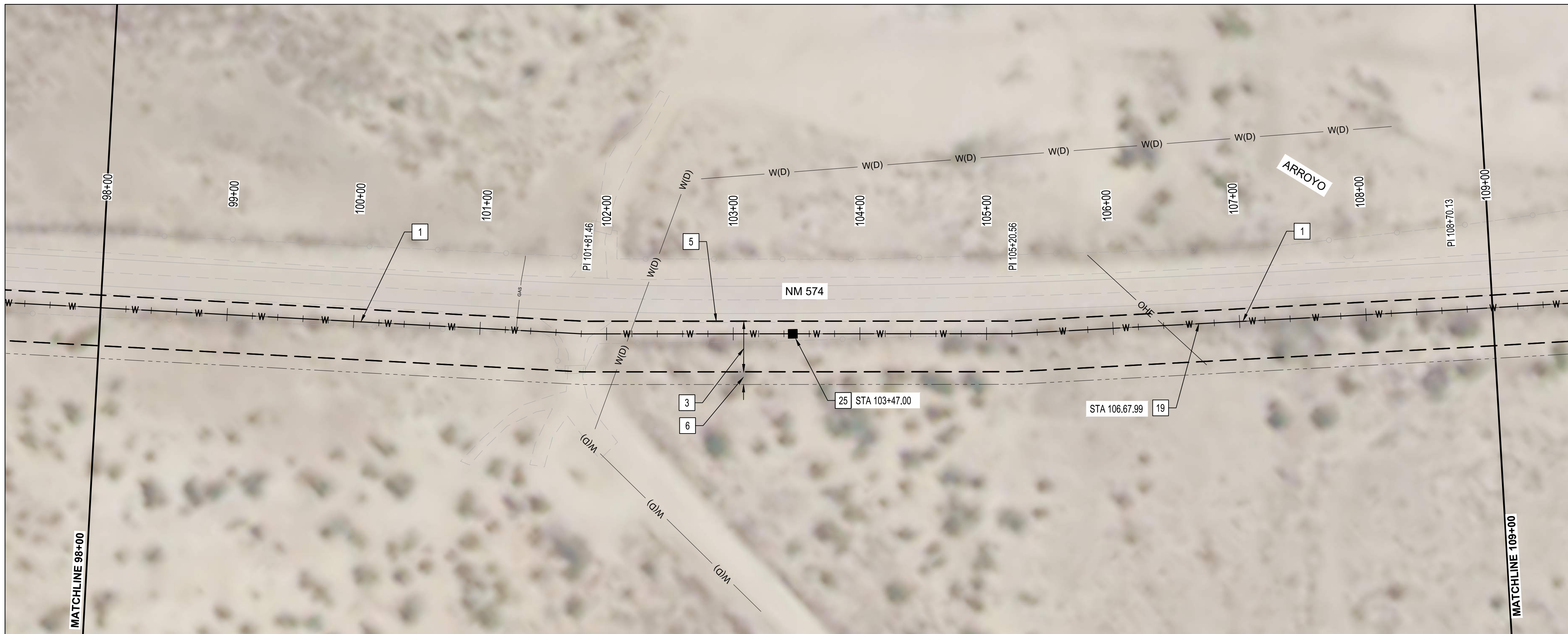


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SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
STA 87+00 TO STA 98+00 PLAN AND PROFILE

BHI PROJECT NO. **20190029** DWG NO. **C-08** SHEET **18** OF **49**



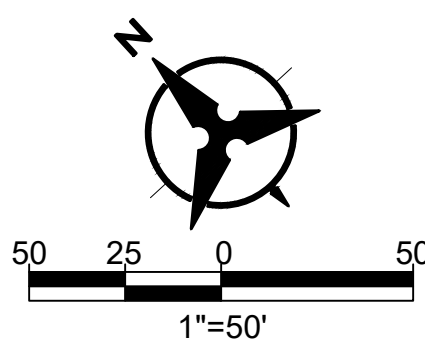
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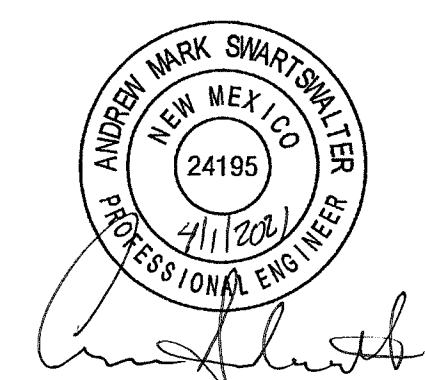
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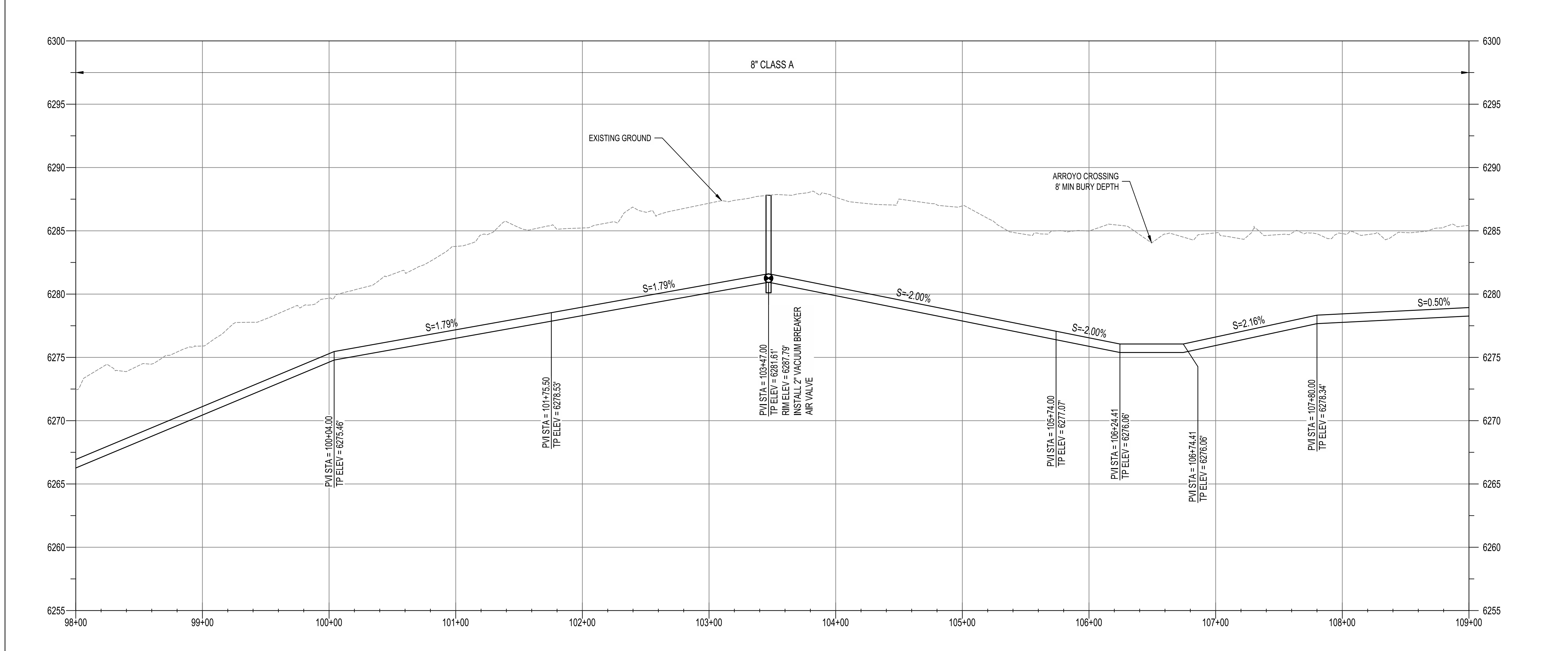


ENGINEER'S SEAL



AS-BUILT INFORMATION

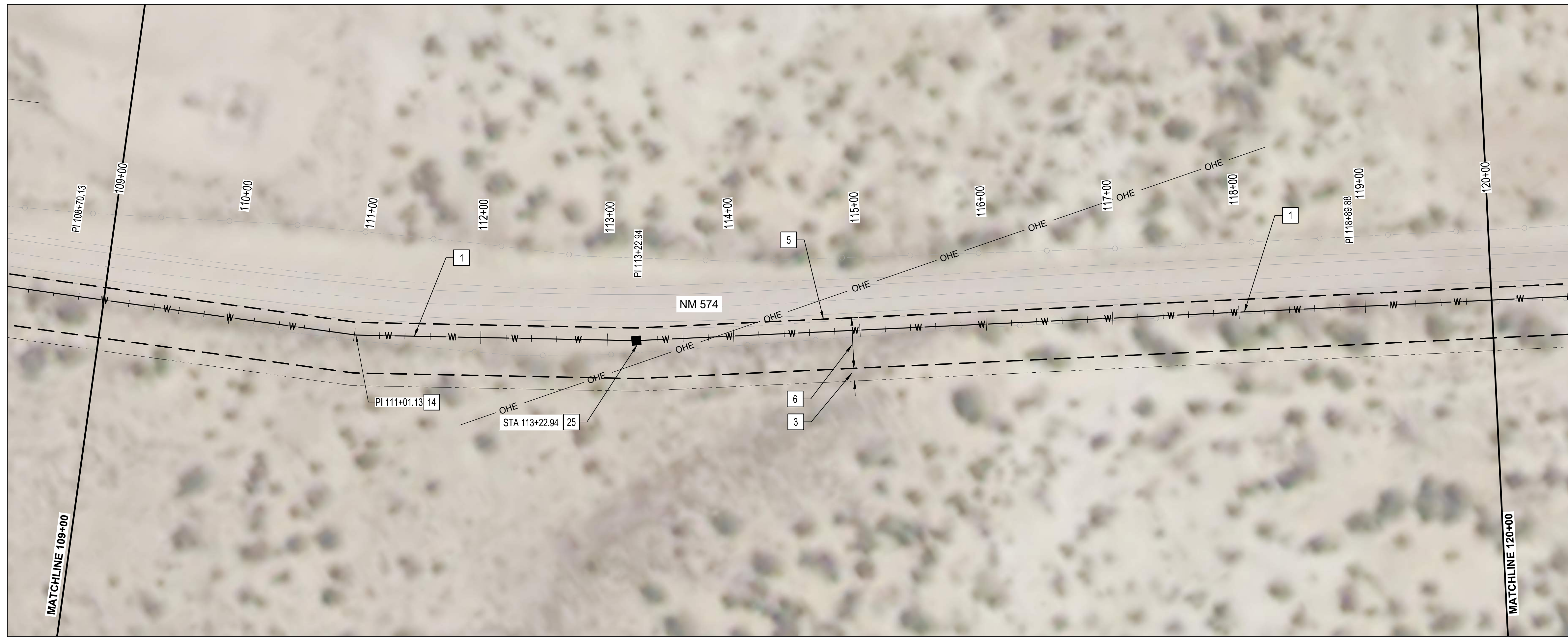
NO.	DATE	BY		REVISIONS							
		CONTRACTOR	DATE	WORK STAMPED BY	DATE	INSPECTORS ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DRAWINGS CORRECTED BY	DATE



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



**SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
STA 98+00 TO STA 109+00 PLAN AND PROFILE**



GENERAL NOTES:

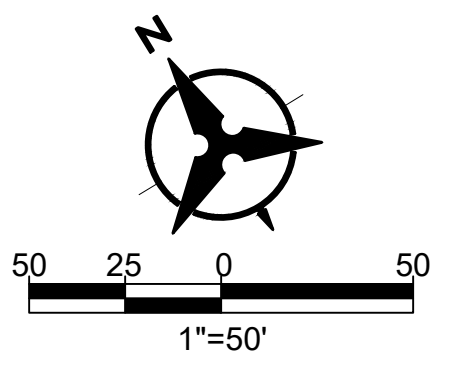
1. TRANSMISSION LINE SHALL BE CONSTRUCTED OF 8" C900 PVC, 8" HDPE OR 8" DUCTILE IRON.
2. STATIONS SHOWN ARE ALONG CENTERLINE OF PIPE AND ELEVATIONS SHOWN ARE ALONG THE TOP OF PIPE.
3. DO NOT DISTURB ROADWAY SURFACE WITHIN NM 574.
4. REFER TO HORIZONTAL LAYOUT FOR ALIGNMENT INFORMATION.
5. WORK SHALL BE CONDUCTED WITHIN EASEMENT LIMITS.
6. REFER TO PROJECT TYPICAL SECTION / TRENCH DETAIL.
7. CONTRACTOR SHALL PROVIDE 12" MIN CLEARANCE FOR CROSSING EXISTING UTILITIES.
8. ALL WATERLINES SHALL BE 4' MIN BURY DEPTH.

KEYED NOTES:

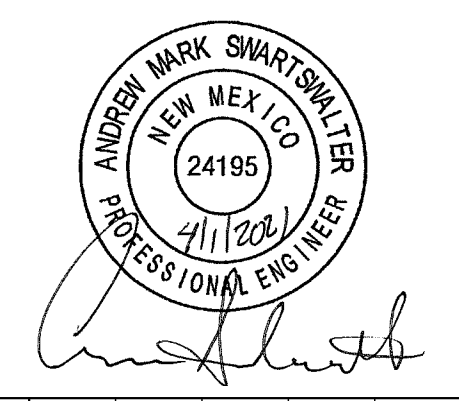
*NOTE THAT NOT ALL KEYED NOTES BELOW ARE NECESSARILY USED ON THIS SHEET. SEE KEYED NOTE CALLOUTS ON PLAN FOR APPLICABLE KEYED NOTES.

- 1 INSTALL 8" WATERLINE
- 2 CONNECTION TO EXISTING 6" WATERLINE WITH TAPPING SADDLE
- 3 NEW 40 FT WATERLINE EASEMENT
- 4 APPROXIMATE NM574 EDGE OF PAVEMENT
- 5 EASEMENT COINCIDES WITH EDGE OF PAVEMENT
- 6 TEMPORARY 10 FT CONSTRUCTION EASEMENT
- 7 HORIZONTAL DIRECTIONAL DRILLING
- 8 LIMITS OF PUMP STATION EASEMENT
- 11 INSTALL CAV PER NMPWSS STD DWG 2350
- 12 INSTALL 8" GATE VALVE
- 13 INSTALL BELOW GRADE FLUSH HYDRANT PER DETAIL 2 ON DWG NO. D-03
- 14 INSTALL 8" - 11.25" HORIZONTAL BEND
- 15 INSTALL 8" - 22.5" HORIZONTAL BEND
- 16 INSTALL 8" - 45" HORIZONTAL BEND
- 17 INSTALL 8" - 90" HORIZONTAL BEND
- 18 NOT USED
- 19 ARROYO CROSSING
- 20 INSTALL 8" X 8" X 6" TEE, INCLUDE VALVE AND 5 LF OF 8" WL CAPPED TO WEST FOR FUTURE CONNECTION.
- 22 JACK AND BORE
- 23 BORING PIT, 40' X 10'
- 24 RECEIVING PIT, 20' X 20'
- 25 INSTALL VACUUM BREAKER AIR VALVE PER STD DWG. 2350
- 26 INSTALL 1" SERVICE LINE, METER BOX AND ASSEMBLY (FIELD LOCATE BY OWNER) PER STD DWGS 2362, 2366, AND 2369.

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



ENGINEER'S SEAL



AS-BUILT INFORMATION

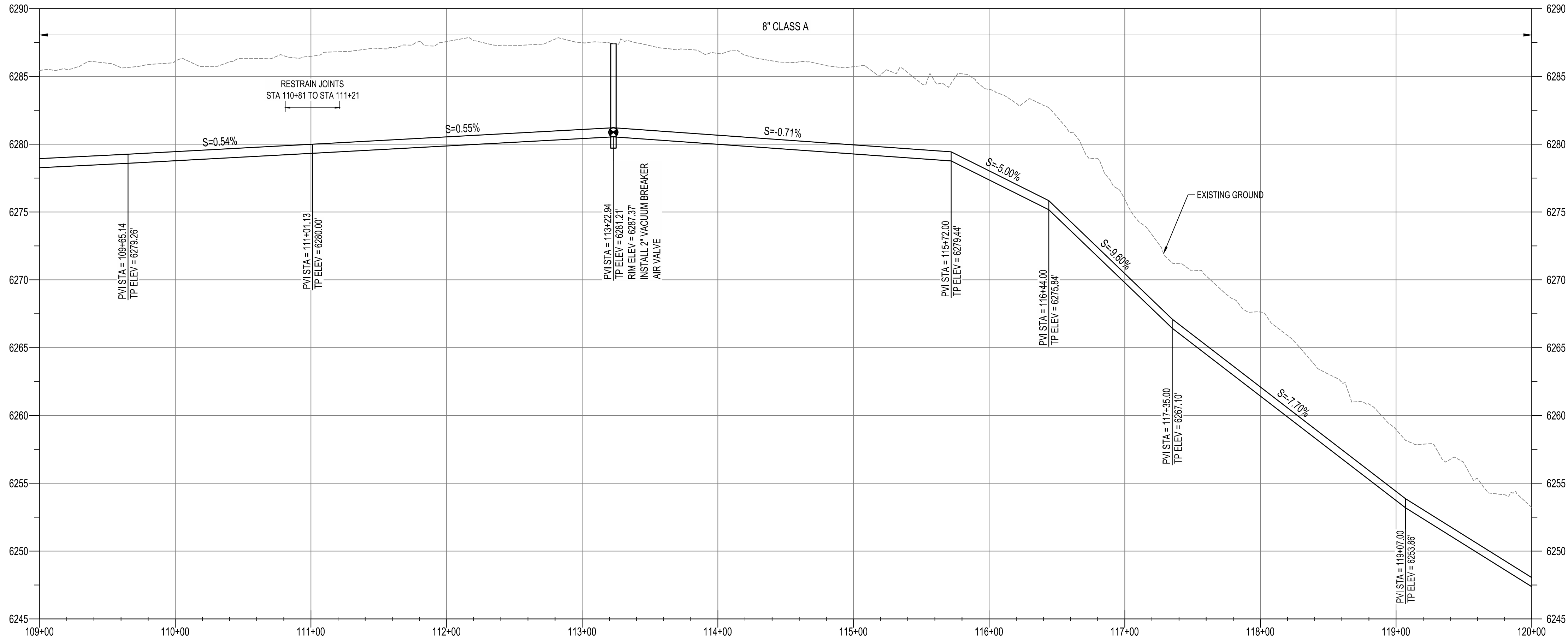
CONTRACTOR	DATE	WORK STAND BY	DATE	INSPECTORS ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DRAWINGS CORRECTED BY	DATE

REVISIONS

NO.	DATE	BY

DESIGN

DESIGNED BY	CHECKED BY	DRAWN BY
BS	AMS	NEC

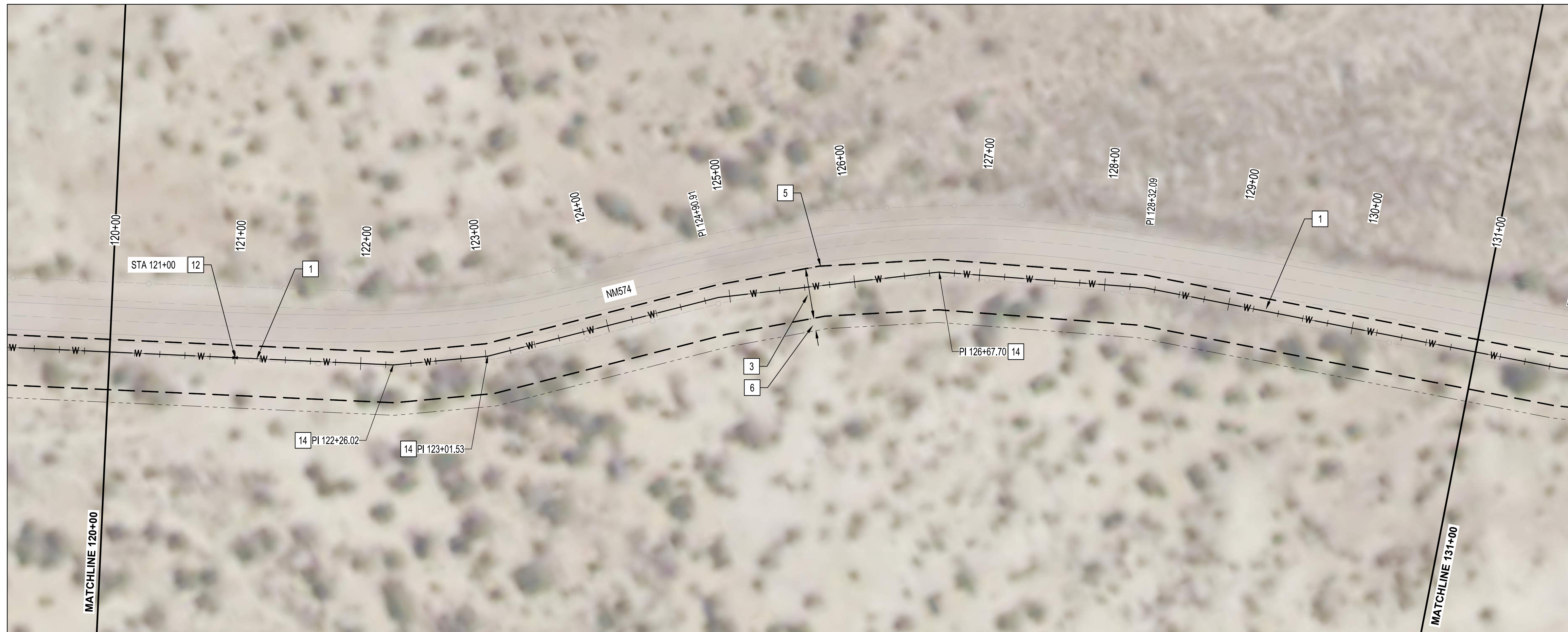


**SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
STA 109+00 TO STA 120+00 PLAN AND PROFILE**

BHI PROJECT NO.	20190029	DWG NO.	C-10	SHEET	20	OF	49
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Tue, 16-Mar-2021 8:29 am, Plotted by: WSUSER
P:\20190029\WR\Design\plans\C-10-E.Culpepper Phase 1 Alignment.dwg

VERTICAL SCALE: 1"=5'



GENERAL NOTES:

- TRANSMISSION LINE SHALL BE CONSTRUCTED OF 8" C900 PVC, 8" HDPE OR 8" DUCTILE IRON.
- STATIONS SHOWN ARE ALONG CENTERLINE OF PIPE AND ELEVATIONS SHOWN ARE ALONG THE TOP OF PIPE.
- DO NOT DISTURB ROADWAY SURFACE WITHIN NM 574.
- REFER TO HORIZONTAL LAYOUT FOR ALIGNMENT INFORMATION.
- WORK SHALL BE CONDUCTED WITHIN EASEMENT LIMITS.
- REFER TO PROJECT TYPICAL SECTION / TRENCH DETAIL.
- CONTRACTOR SHALL PROVIDE 12" MIN CLEARANCE FOR CROSSING EXISTING UTILITIES.
- ALL WATERLINES SHALL BE 4' MIN BURY DEPTH.

KEYED NOTES:

*NOTE THAT NOT ALL KEYED NOTES BELOW ARE NECESSARILY USED ON THIS SHEET. SEE KEYED NOTE CALLOUTS ON PLAN FOR APPLICABLE KEYED NOTES.

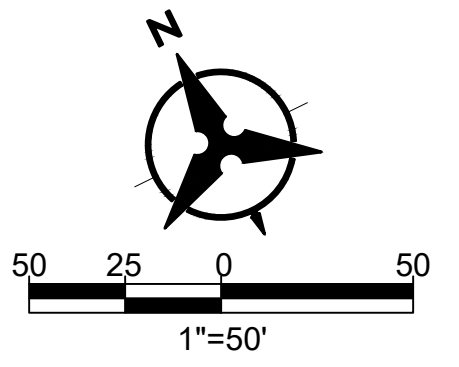
- INSTALL 8" WATERLINE
- CONNECTION TO EXISTING 6" WATERLINE WITH TAPPING SADDLE
- NEW 40 FT WATERLINE EASEMENT
- APPROXIMATE NM574 EDGE OF PAVEMENT
- EASEMENT COINCIDES WITH EDGE OF PAVEMENT
- TEMPORARY 10 FT CONSTRUCTION EASEMENT
- HORIZONTAL DIRECTIONAL DRILLING
- LIMITS OF PUMP STATION EASEMENT
- INSTALL CAV PER NMPWSS STD DWG 2350
- INSTALL 8" GATE VALVE
- INSTALL BELOW GRADE FLUSH HYDRANT PER DETAIL 2 ON DWG NO. D-03
- INSTALL 8" - 11.25° HORIZONTAL BEND
- INSTALL 8" - 22.5° HORIZONTAL BEND
- INSTALL 8" - 45° HORIZONTAL BEND
- INSTALL 8" - 90° HORIZONTAL BEND
- NOT USED
- ARROYO CROSSING
- INSTALL 8" X 8" X 6" TEE, INCLUDE VALVE AND 5 LF OF 8" WL CAPPED TO WEST FOR FUTURE CONNECTION.
- JACK AND BORE
- BORING PIT, 40' X 10'
- RECEIVING PIT, 20' X 20'
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NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNERS TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

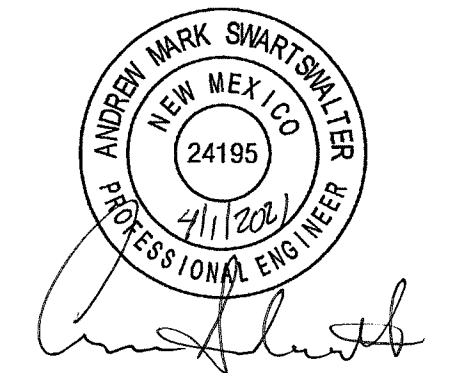


**SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
STA 120+00 TO STA 131+00 PLAN AND PROFILE**

BHI PROJECT NO.	20190029	DWG NO.	C-11	SHEET	21	OF	49
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ENGINEER'S SEAL



AS-BUILT INFORMATION

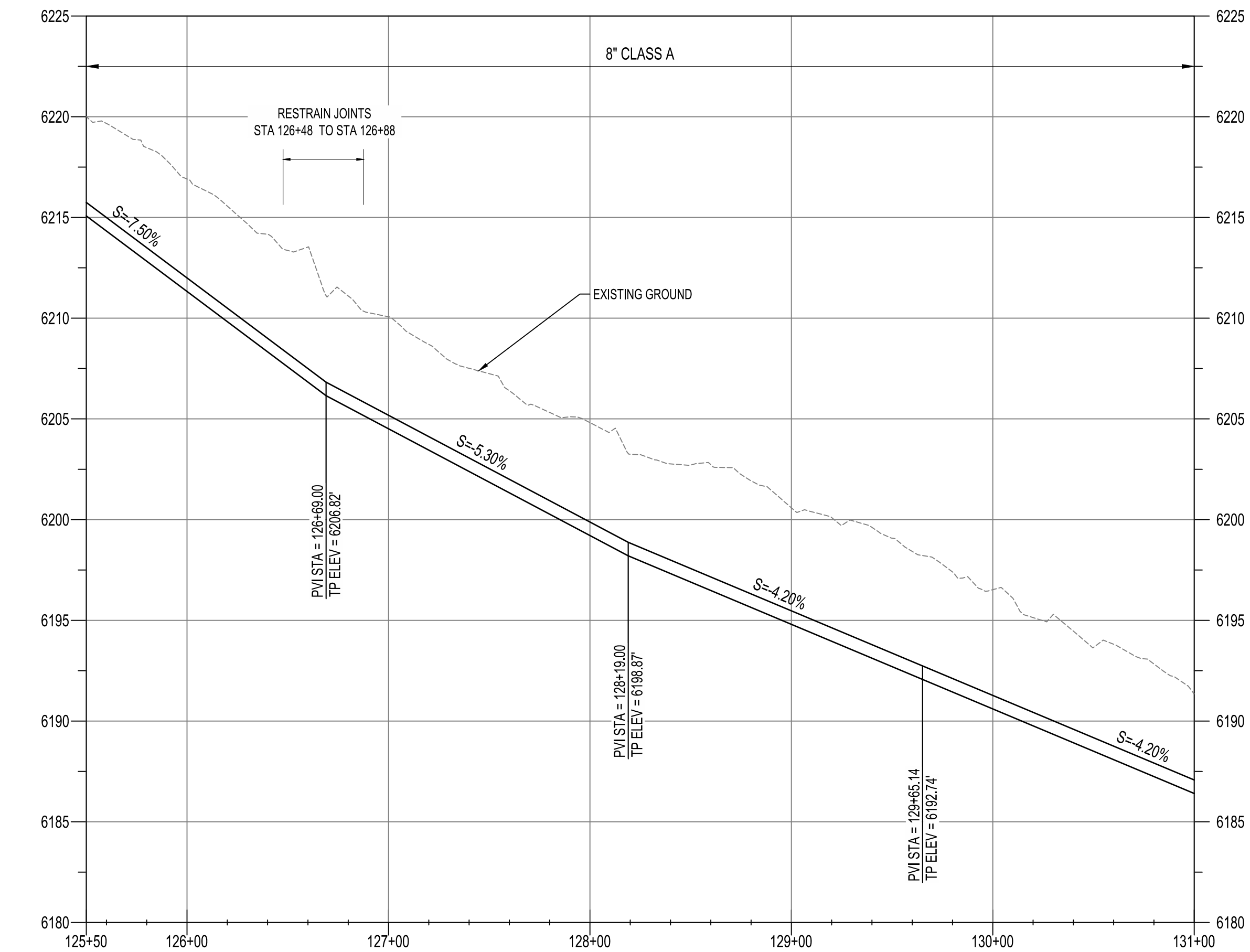
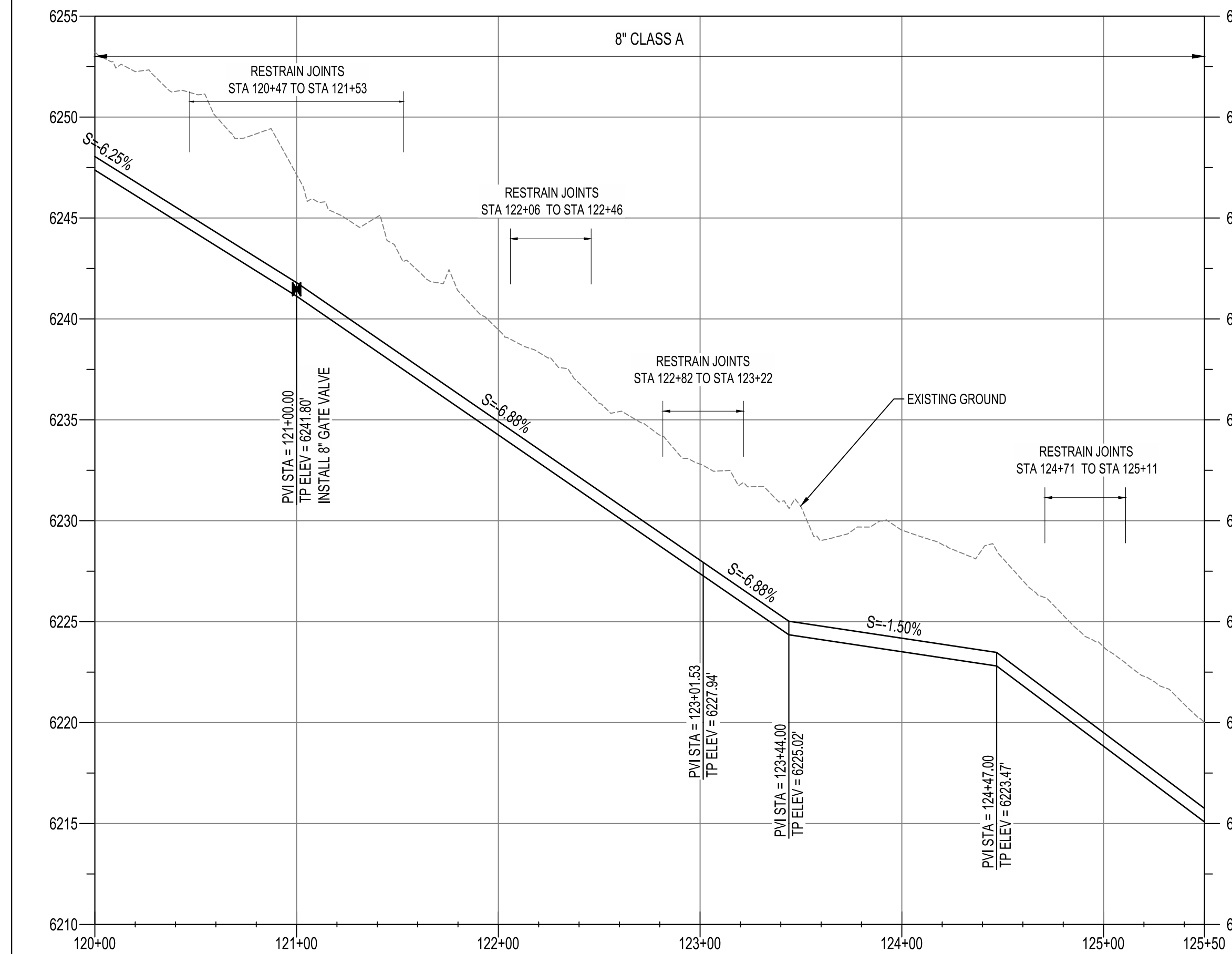
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REVISIONS

NO.	DATE	BY	REVISIONS

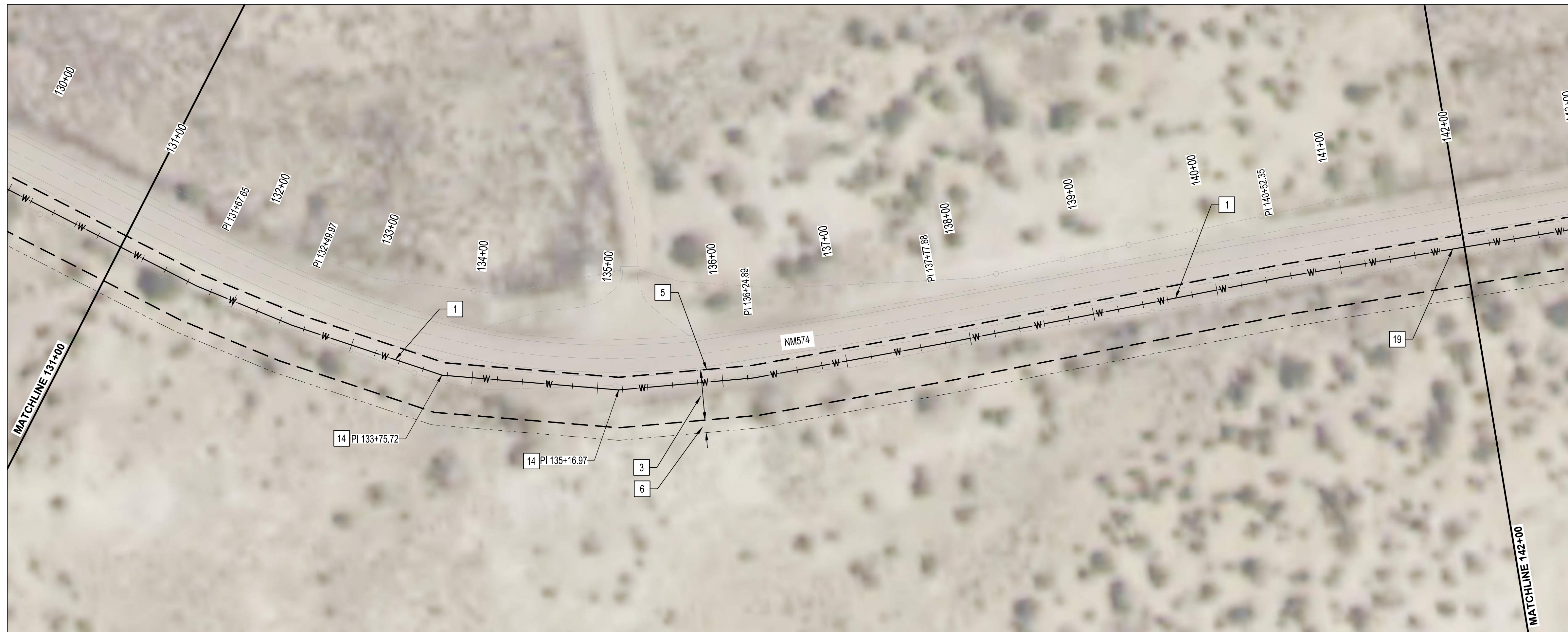
DESIGN

DESIGNED BY	BS	CHECKED BY	AMS	DRAWN BY	NEC
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VERTICAL SCALE: 1"=5'

Tue, 16-Mar-2021 8:30 am, Plotted by: WSJUSER
P:\20190029\WR\Design\plans\C-11-E.Culpepper Phase 1 Alignment.dwg



GENERAL NOTES:

- TRANSMISSION LINE SHALL BE CONSTRUCTED OF 8" C900 PVC, 8" HDPE OR 8" DUCTILE IRON.
- STATIONS SHOWN ARE ALONG CENTERLINE OF PIPE AND ELEVATIONS SHOWN ARE ALONG THE TOP OF PIPE.
- DO NOT DISTURB ROADWAY SURFACE WITHIN NM 574.
- REFER TO HORIZONTAL LAYOUT FOR ALIGNMENT INFORMATION.
- WORK SHALL BE CONDUCTED WITHIN EASEMENT LIMITS.
- REFER TO PROJECT TYPICAL SECTION / TRENCH DETAIL.
- CONTRACTOR SHALL PROVIDE 12" MIN CLEARANCE FOR CROSSING EXISTING UTILITIES.
- ALL WATERLINES SHALL BE 4' MIN BURY DEPTH.

KEYED NOTES:

*NOTE THAT NOT ALL KEYED NOTES BELOW ARE NECESSARILY USED ON THIS SHEET. SEE KEYED NOTE CALLOUTS ON PLAN FOR APPLICABLE KEYED NOTES.

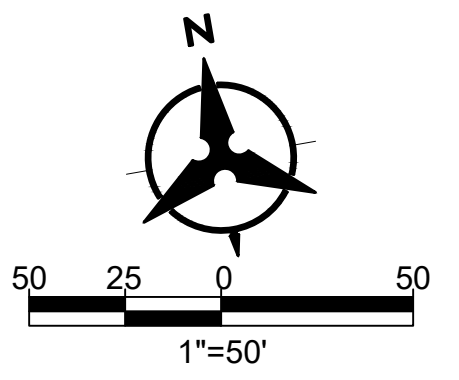
- INSTALL 8" WATERLINE
- CONNECTION TO EXISTING 6" WATERLINE WITH TAPPING SADDLE
- NEW 40 FT WATERLINE EASEMENT
- APPROXIMATE NM574 EDGE OF PAVEMENT
- EASEMENT COINCIDES WITH EDGE OF PAVEMENT
- TEMPORARY 10 FT CONSTRUCTION EASEMENT
- HORIZONTAL DIRECTIONAL DRILLING
- LIMITS OF PUMP STATION EASEMENT
- INSTALL CAV PER NMPWSS STD DWG 2350
- INSTALL 8" GATE VALVE
- INSTALL BELOW GRADE FLUSH HYDRANT PER DETAIL 2 ON DWG NO. D-03
- INSTALL 8" - 11.25° HORIZONTAL BEND
- INSTALL 8" - 22.5° HORIZONTAL BEND
- INSTALL 8" - 45° HORIZONTAL BEND
- INSTALL 8" - 90° HORIZONTAL BEND
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- ARROYO CROSSING
- INSTALL 8" X 8" X 6" TEE, INCLUDE VALVE AND 5 LF OF 8" WL CAPPED TO WEST FOR FUTURE CONNECTION.
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NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNERS TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
STA 131+00 TO STA 142+00 PLAN AND PROFILE

BHI PROJECT NO.	20190029	DWG NO.	C-12	SHEET	22	OF	49
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ENGINEER'S SEAL



AS-BUILT INFORMATION

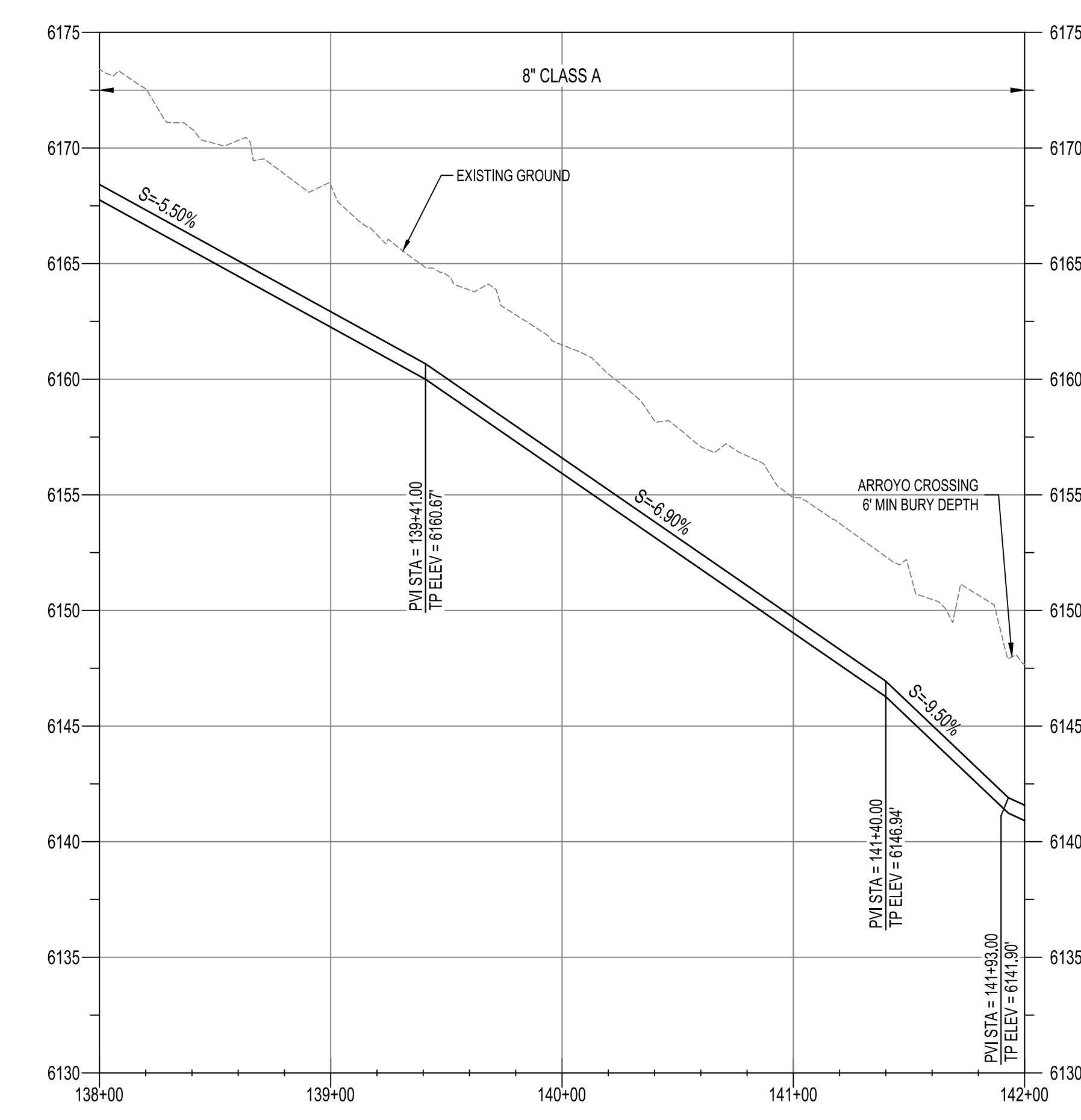
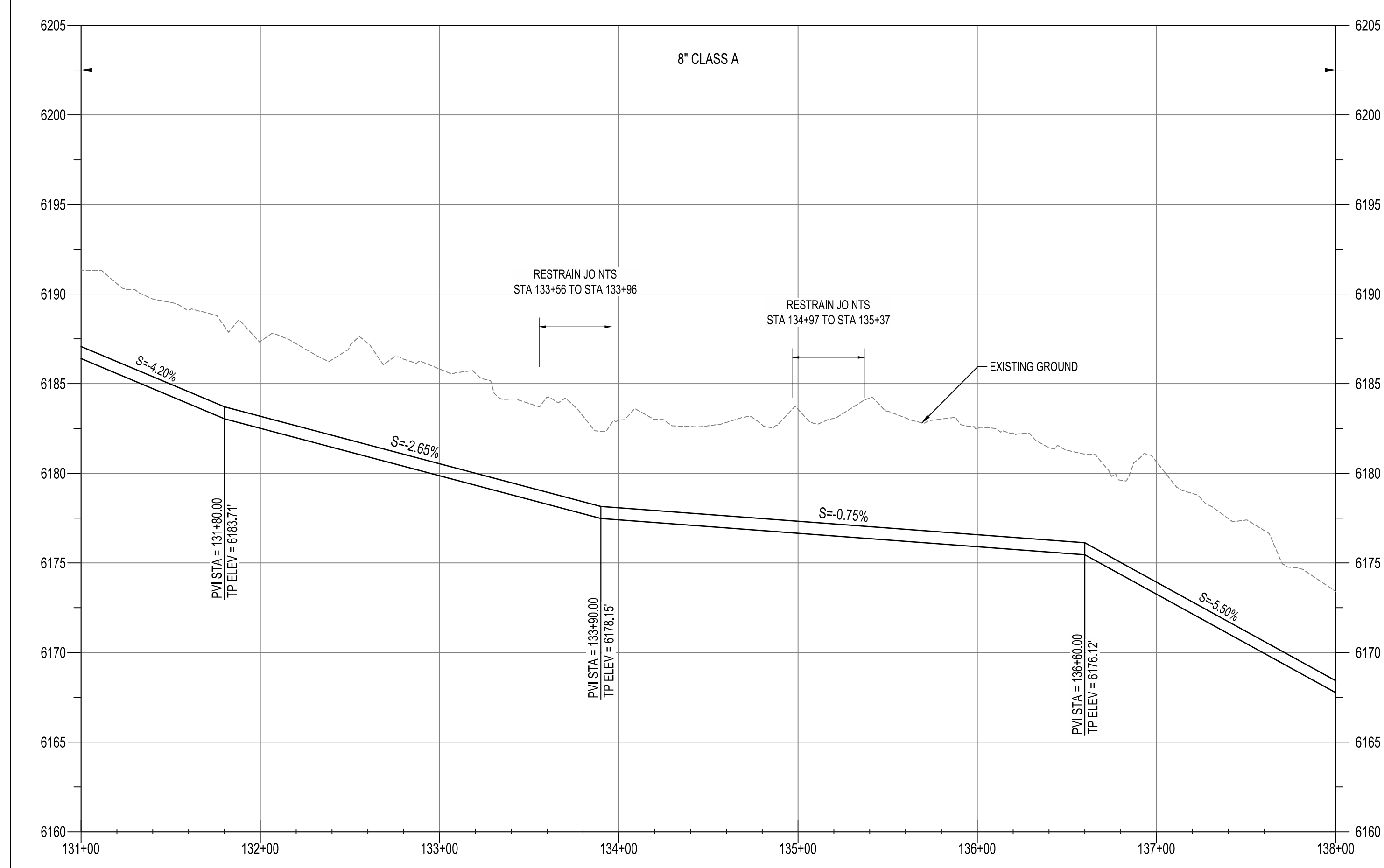
CONTRACTOR	DATE	WORK STAGED BY	DATE	INSPECTORS	DATE	ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DRAWINGS CORRECTED BY	DATE

REVISIONS

NO.	DATE	BY

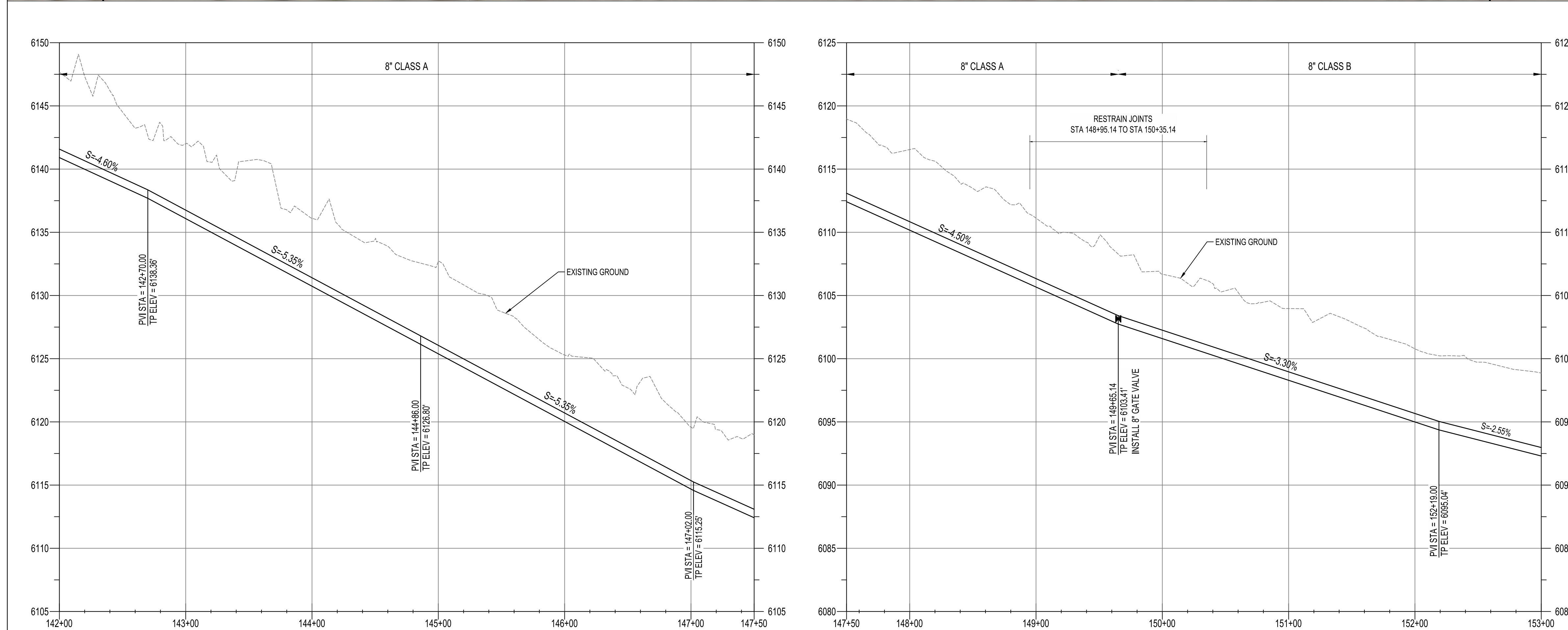
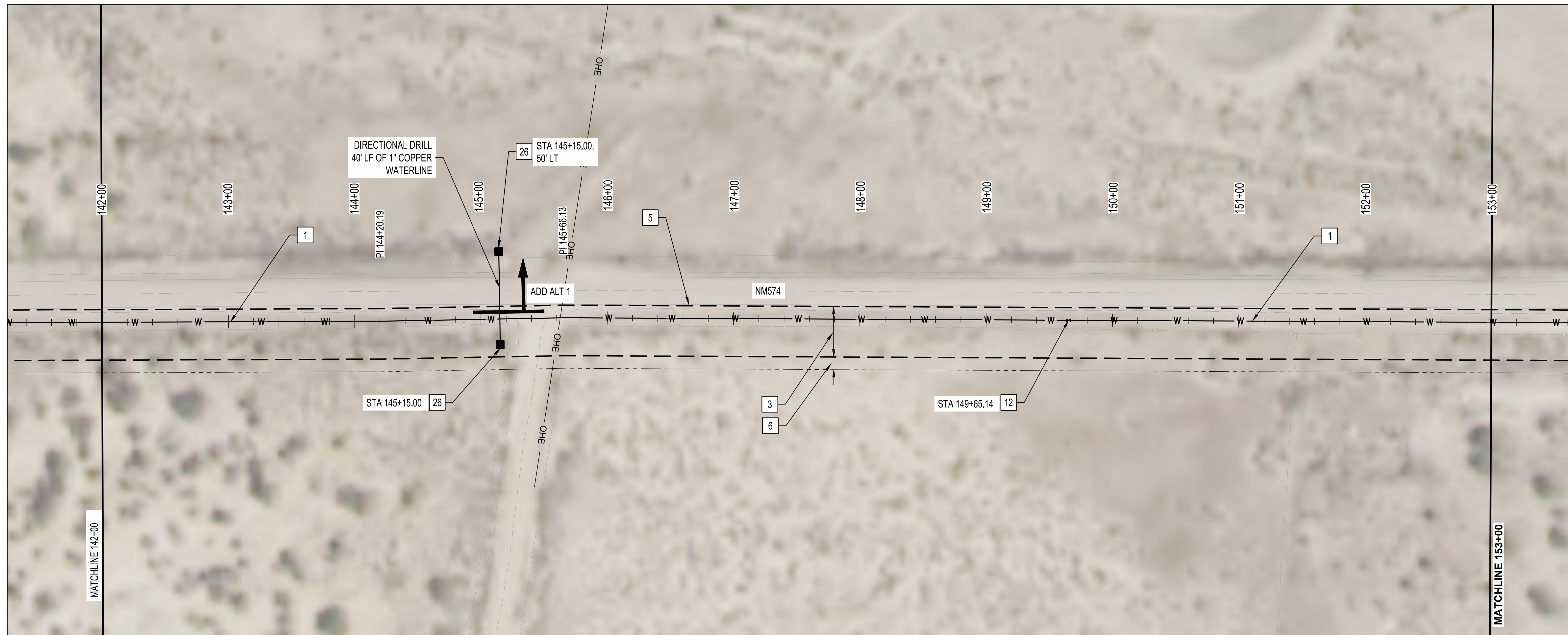
DESIGN

DESIGNED BY	BS	CHECKED BY	AMS	DRAWN BY	NEC
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VERTICAL SCALE: 1"=5'

Tue, 16-Mar-2021 - 8:31am, Plotted by: WSUSER
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GENERAL NOTES:

1. TRANSMISSION LINE SHALL BE CONSTRUCTED OF 8" C900 PVC, 8" HDPE OR 8" DUCTILE IRON.
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KEYED NOTES:

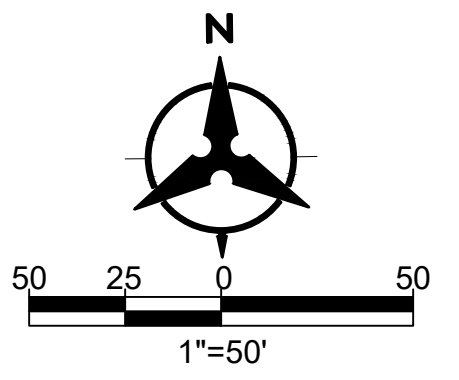
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SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
STA 142+00 TO STA 153+00 PLAN AND PROFILE



ENGINEER'S SEAL



AS-BUILT INFORMATION

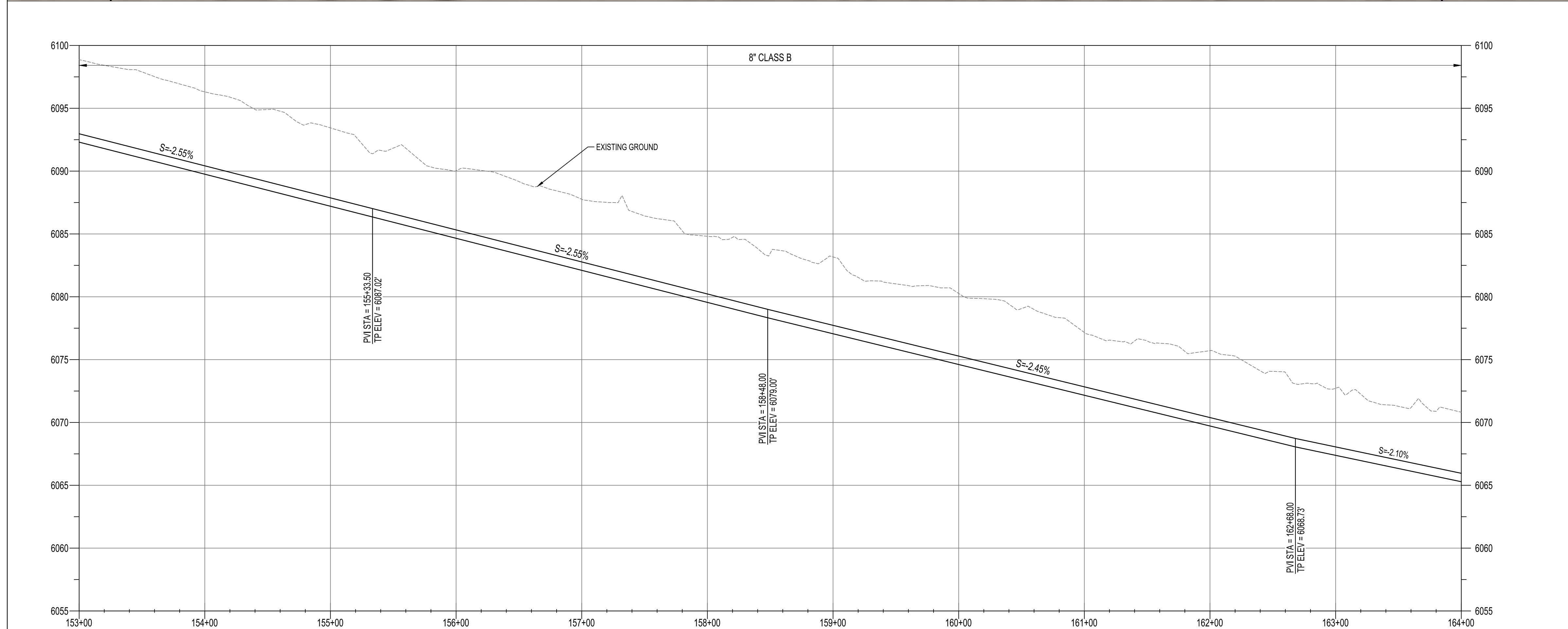
CONTRACTOR	DATE	WORK STAMPED BY	DATE	INSPECTORS	DATE	ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DRAWINGS CORRECTED BY	DATE

REVISIONS

NO.	DATE	BY

DESIGN

DESIGNED BY	CHECKED BY	DRAWN BY
BS	AMS	NEC



GENERAL NOTES:

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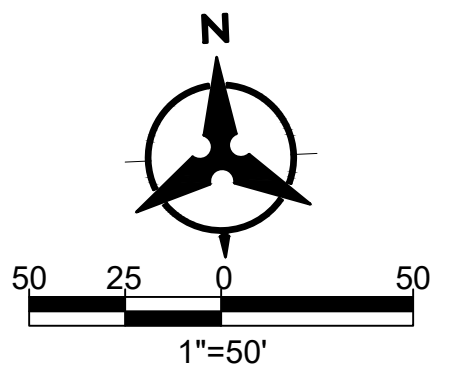
- INSTALL 8" WATERLINE
- CONNECTION TO EXISTING 6" WATERLINE WITH TAPPING SADDLE
- NEW 40 FT WATERLINE EASEMENT
- APPROXIMATE NM574 EDGE OF PAVEMENT
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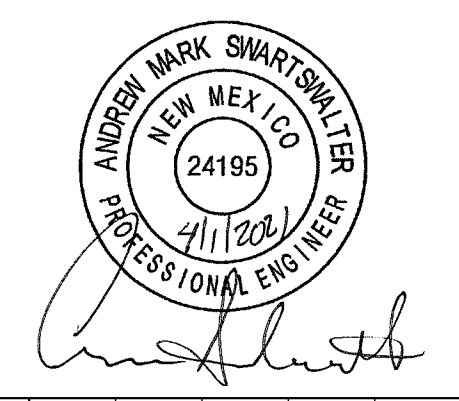


**SAN JUAN COUNTY
EAST CULPEPPER WATER CONNECTION
PHASE 1: TRANSMISSION LINE AND BOOSTER STATION
STA 153+00 TO STA 164+00 PLAN AND PROFILE**

BHI PROJECT NO.	20190029	DWG NO.	C-14	SHEET	24	OF	49
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ENGINEER'S SEAL



AS-BUILT INFORMATION

CONTRACTOR	DATE	WORK STAND BY	DATE	INSPECTORS	DATE	ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DRAWINGS CORRECTED BY	DATE

REVISIONS

NO.	DATE	BY

DESIGN

DESIGNED BY	CHECKED BY	DRAWN BY
BS	AMS	NEC

