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 <p>SMA Engineering Environmental Surveying</p>	<p>SOUDER, MILLER & ASSOCIATES 3451 LAKE AVENUE, SUITE 100 CARLISLE, QUEBEC, CANADA J3B 8T7 Phone: (514) 239-0942 Fax: (514) 293-2430 www.soudermiller.com</p>		<p>CLIENT: VILLAGE OF CORRALES</p>		<p>Revision</p>	<p>Date</p>	<p>Description</p>	<p>By</p>	<p>CHKD</p>
	<p>Drawn OGM</p>	<p>Checked JAM</p>	<p>Approved JAM</p>	<p>COVER AND PROJECT MAP PHASE 2 & 3 BUSINESS CORE WASTEWATER TRANSMISSION LINE VILLAGE OF CORRALES, NEW MEXICO</p>					
<p>THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED</p>									
<p>Date: August 2012</p>		<p>Scale: AS SHOWN</p>		<p>Project No: N/A</p>		<p>Project No: 6477098</p>		<p>Sheet: G-1</p>	

GENERAL NOTES

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| <p>3. THERE WILL BE A PERSON OR PERSONS (HEREINAFTER KNOWN AS THE OWNER'S REPRESENTATIVE) CHOSEN BY THE VILLAGE OF CORRALES (HEREINAFTER KNOWN AS THE OWNER) TO ACT AS A CONTACT PERSON BETWEEN THE OWNER AND THE ENGINEER. THE OWNER'S REPRESENTATIVE WILL OBSERVE, AND PROVIDE INFORMATION, AND PROVIDE CRITICAL LOCATIONS THROUGH THE ENGINEER TO THE CONTRACTOR IN THE FIELD.</p> <p>4. THE ENGINEER, MILLER AND ASSOCIATES SHALL HEREINAFTER BE KNOWN AS THE ENGINEER. THERE WILL BE A PERSON, PROVIDED BY THE ENGINEER THAT WILL ACT AS A RESIDENT INSPECTOR WHO WILL BE THE CONTACT FOR QUESTIONS FROM THE CONTRACTOR TO THE ENGINEER.</p> <p>5. THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND IS NOT LIABLE FOR PROBLEMS THAT MAY ARISE FROM THE CONTRACTOR'S FAILURE TO FOLLOW THESE DRAWINGS, SPECIFICATIONS, AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS ARISING FROM FAILURE TO OBTAIN AND/OR FOLLOW THE ENGINEER'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS.</p> <p>6. WHERE PARTICULAR WORK ITEMS ARE NOT SPECIFIED HEREIN OR IN THE PROJECT SPECIFICATIONS, THE CURRENT EDITION OF NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE APPLICABLE SUPPLEMENTAL SPECIFICATIONS SHALL GOVERN CONSTRUCTION OF THIS PROJECT UNLESS OTHERWISE NOTED.</p> <p>7. IN THE EVENT THAT THE CONTRACTOR ENCOUNTERS ITEMS OF HISTORICAL IMPORTANCE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY AND WORK IN THE AREA SHALL IMMEDIATELY CEASE UNTIL THE SITE CAN BE PROPERLY CLEARED.</p> <p>8. ALL WORK IN THE VICINITY OF LIVE STREAMS, WATER IMPOUNDMENTS, WETLANDS OR IRRIGATION SUPPLIES SHALL BE EFFECTED IN SUCH A MANNER AS TO MINIMIZE VEGETATION REMOVAL, SOIL DISTURBANCE AND EROSION. CROSSINGS OF LIVE STREAMS WITH HEAVY EQUIPMENT SHALL BE MINIMIZED, AS DETERMINED BY THE ENGINEER. EQUIPMENT REFUELING, MAINTENANCE AND CEMENT PUMPING IN THE VICINITY OF WATER COURSES IS STRICTLY PROHIBITED AND SHALL BE PERFORMED IN PROPER CONTAINMENT AREAS.</p> <p>9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE LOCATION OF ALL UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION. THE GENERAL LOCATION OF KNOWN EXISTING UTILITIES HAS BEEN SHOWN ON THE CONSTRUCTION DRAWINGS TO INDICATE THAT CAUTION MUST BE EXERCISED WHEN WORKING IN THESE AREAS. IN MANY CASES THE EXACT LOCATION OF THE FACILITIES IS NOT KNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL OVERHEAD AND UNDERGROUND UTILITIES WITHIN THE VICINITY OF THE NEW CONSTRUCTION. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR, WORKING WITH THE RESPECTIVE UTILITY COMPANIES, SHALL ACCURATELY LOCATE AND MARK ALL BURIED FACILITIES, INCLUDING SERVICE LINES, ALL EQUIPMENT LABOR, ETC. NECESSARY TO PROPERLY LOCATE THE EXISTING UTILITIES SHALL BE FURNISHED BY THE CONTRACTOR, THE COST OF WHICH SHALL BE INCLUDED IN THE UNIT PRICES ON VARIOUS BID ITEMS.</p> <p>10. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTING THE PROJECT ACCORDING TO APPLICABLE CURRENT NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (NMSSPWC) ANWWA SPECS, AND NMED SPECS AND REGULATIONS, UNLESS OTHERWISE NOTED.</p> <p>11. CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING BUILDING PERMITS, UTILITY BORE PERMITS, NMDOT, CITY OF ALBUQUERQUE, AND ANY OTHER, WHICH HAVE NOT ALREADY BEEN OBTAINED BY THE ENGINEER.</p> <p>12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED BY THE PLANS WHETHER SPECIFICALLY LISTED OR NOT TO COMPLETE THE PROJECT. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR UNLISTED REMOVALS. THE CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL IN AN ENVIRONMENTALLY ACCEPTABLE MANNER AT A LOCATION ACCEPTABLE TO THE OWNER AND ENGINEER.</p> <p>13. THE CONTRACTOR SHALL SALVAGE ANY OBSTRUCTIONS NOTED ON THE CONTRACT DRAWINGS AS WELL AS REUSABLE ITEMS FOUND DURING CONSTRUCTION. SUCH ITEMS, IF ANY, SHALL BE DELIVERED TO THE PROPER OWNER AS DIRECTED BY THE ENGINEER AND/OR OWNER DURING CONSTRUCTION.</p> <p>14. THE CONTRACTOR WILL NOT BE ALLOWED TO STORE EQUIPMENT IN THE CONSTRUCTION ZONE DURING NON-WORKING HOURS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A STORAGE AREA(S) FOR THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR SITE SECURITY.</p> <p>15. CONTRACTOR IS SOLELY RESPONSIBLE FOR UTILITY LOCATION, PROTECTION, AND VERIFICATION. CONTRACTOR MUST NOTIFY NEW MEXICO ONE CALL SYSTEM, INC. AT 1-800-321-ALERT, AND ALL LOCAL UTILITY PROVIDERS THREE (3) DAYS BEFORE STARTING UTILITY CONSTRUCTION.</p> <p>16. THROUGHOUT THE LIFE OF THE PROJECT, THE CONTRACTOR SHALL KEEP ANY EXISTING SYSTEM OPERATING. THE CONTRACTOR SHALL REPORT ANY UTILITY SHUT-OFFS OF ANY OR ALL CONNECTIONS TO THE OWNER'S REPRESENTATIVE TWENTY-FOUR (24), OR MORE, HOURS IN ADVANCE OF THE SHUT-OFFS. ALL LOCAL RESIDENTS AND BUSINESSES SHALL BE CONTACTED BEFORE ANY DISCONNECTION OF WATER SERVICE. ANY INTERRUPTION OF WATER SERVICE SHALL BE KEPT TO THE MINIMUM LENGTH OF TIME POSSIBLE.</p> <p>17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A WATER SOURCE FOR CONSTRUCTION. NO DIRECT PAYMENT WILL BE MADE FOR WATER, ALL PERMITS, FEES, EQUIPMENT, HAUL, ETC. RELATIVE TO OBTAINING WATER SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS.</p> <p>18. CONTRACTOR SHALL CONFINE ALL CONSTRUCTION OPERATIONS TO THE LIMITS OF THE PROJECT DEFINED IN THESE DRAWINGS, AND IN NO WAY ENCRUCH ONTO ADJACENT PROPERTIES, UNLESS LEGAL EASEMENTS ARE PROVIDED. CONTRACTOR SHALL BE HELD SOLELY RESPONSIBLE FOR ANY AGREEMENTS NEEDED, OR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES.</p> <p>19. THE CONTRACTOR SHALL TAKE ANY NECESSARY MEASURES TO PREVENT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS FROM DAMAGE DURING CONSTRUCTION. IF DURING EXECUTION OF THE PROJECT, THE CONTRACTOR'S ACTIVITIES DISTURB OR DESTROY SUCH MONUMENTS, THE CONTRACTOR SHALL RE-ESTABLISH THEM IN ACCORDANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE "GEODETIC MARK PRESERVATION GUIDEBOOK". FOR MORE INFORMATION CONTACT NGS MARK PRESERVATION CENTER, NOAA (505) 768-3606.</p> | <p>20. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING STRUCTURES FREE OF DUST AND/OR CONSTRUCTION DEBRIS AT ALL TIMES DURING THE EXECUTION OF THE PROJECT. ALL EXISTING AND NEW STRUCTURES SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. ALL COSTS RELATED TO THIS ITEM SHALL BE INCIDENTAL TO THE WORK AND NO EXTRA PAYMENT SHALL BE MADE TO THE CONTRACTOR.</p> <p>21. CONTRACTOR SHALL REPAIR ANY EXISTING STRUCTURE OR UTILITY CONDUIT DAMAGED DURING THE EXECUTION OF THE PROJECT, AT NO ADDITIONAL COSTS TO THE OWNER.</p> <p>22. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF MATERIALS AND EQUIPMENT PRIOR TO AND AFTER THEIR INSTALLATION AS APPLICABLE, UNTIL THE PROJECT'S FINAL ACCEPTANCE BY THE OWNER.</p> <p>23. AS REQUIRED, NOT LESS THAN 5 DAYS PRIOR TO INITIATING ANY WORK, THE CONTRACTOR SHALL SUBMIT A DUST SUPPRESSION AND EROSION CONTROL PLAN FOR THE OWNER'S APPROVAL. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN SUCH A MANNER THAT WILL HAVE NO ADVERSE EFFECT UPON ADJACENT PROPERTIES OR PUBLIC ROADWAYS.</p> <p>24. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR EROSION CONTROL INCIDENTAL TO THE CONSTRUCTION ACTIVITIES. AS EXPECTED DISTURBANCE IS <1AC. A SWPPP IS NOT REQUIRED FOR THIS PROJECT. IN THE EVENT THAT 1 ACRES OF EARTH OR MORE ARE DISTURBED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUBMIT A STORM WATER POLLUTION PREVENTION PLAN TO THE OWNER AND ENGINEER. THE PLAN WILL ADDRESS ALL CONSTRUCTION PHASES AND THE PROPOSED POLLUTION PREVENTION AND SEDIMENT CONTROL MEASURES. THIS SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT REQUIREMENT FOR ALL CONSTRUCTION ACTIVITIES.</p> <p>25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF SPILLS ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, AND OTHER MATERIALS WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING PAST SPILLS ENCOUNTERED DURING CONSTRUCTION AND OF CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION. REPORTS SHALL BE MADE IMMEDIATELY TO THE NM ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT (505) 827-4308 OR (505) 470-3657 AND TO THE ENGINEER. ANY UNREPORTED SPILLS IDENTIFIED AFTER CONSTRUCTION AND THE ASSOCIATED CLEANUP COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.</p> <p>26. THE CONTRACTOR SHALL PREPARE AND MAINTAIN UP-TO-DATE "AS-BUILT" DRAWINGS. UPDATING SUCH DRAWINGS SHALL BE DONE NOT LESS THAN ONCE EVERY WEEK. THE OWNER'S ENGINEER OR ENGINEER'S REPRESENTATIVE SHALL BE ALLOWED TO REVIEW THESE DRAWINGS AT ANY TIME DURING CONSTRUCTION. PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT TWO (2) SETS OF COMPLETE AS-BUILT DRAWINGS TO THE ENGINEER.</p> <p>27. CONTRACTOR SHALL SUBMIT ASTM OR AASHTO CERTIFICATES OF MATERIAL'S COMPLIANCE TO THE ENGINEER NO LESS THAN 5 DAYS PRIOR TO INITIATING ANY WORK INVOLVING SUCH MATERIALS.</p> <p>28. ANY UTILITIES FOR THIS PROJECT SHALL BE INSTALLED TO THE MINIMUM COVER AS SHOWN ON THE CONSTRUCTION DRAWINGS, THIS INCLUDES ANY CROSSING SERVICES OR LATERALS INSTALLED. EXCEPTIONS MUST BE AUTHORIZED BY THE ENGINEER.</p> <p>29. ALL INSTALLED UTILITY MANH, LATERALS, AND SERVICES SHALL BE MARKED WITH TRACER WIRE TAPED TO TOP OF PIPE AND DETECTABLE WARNING TAPE WHERE APPLICABLE AT LEAST EIGHTEEN (18) INCHES ABOVE BURIED PIPE, AS PER SPECIFICATIONS AND THESE DRAWINGS.</p> <p>30. ALL INSTALLED OR OPENED WATERLINES & MATERIALS SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.</p> <p>31. ALL BEDDING MATERIAL SHALL BE GRANULAR AND FREE-DRAINING, HAVE A MAXIMUM GRAIN SIZE THAT DOES NOT EXCEED 3/8 INCH, AND BE ACCEPTABLE TO THE ENGINEER.</p> <p>32. OVER-EXCAVATION OF TRENCHES SHALL NOT BE PERFORMED UNLESS IT IS DETERMINED, TO THE SATISFACTION OF THE ENGINEER THAT THE SUBSOIL IS NOT SUITABLE FOR PIPE BEDDING AND MUST BE REPLACED WITH IMPORTED FILL. OVER-EXCAVATION PERFORMED UNNECESSARILY BY THE CONTRACTOR SHALL BE REMEDIED WITH CLASSIFIED FILL AND COMPACTION AS REQUIRED BY THE SPECIFICATIONS, AT THE CONTRACTOR'S EXPENSE.</p> <p>33. PADDING AND BACK FILL MATERIAL, IF REQUIRED, SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE. SEPARATE PAYMENT WILL NOT BE MADE FOR PADDING AND BACK FILL MATERIAL OR HAUL. ALL PADDING AND BACK FILL MATERIAL OR HAUL SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS WORK ITEMS. THE CONTRACTOR SHALL SECURE A SUITABLE PADDING AND BACK FILL MATERIAL PIT IF MATERIAL IS REQUIRED TO COMPLETE THE PROJECT. BACKFILL SHALL MEET AN R FACTOR OF 50 AND NMDOT SPECIFICATIONS FOR CORRALES RD. AND ALAMEDA BLVD., AND CITY OF ALBUQUERQUE SPECIFICATIONS FOR COORS BLVD.</p> <p>34. BACK FILL DENSITY TESTS SHALL BE PERFORMED HORIZONTALLY FOR EACH 1000 LINEAR FEET OF PIPELINE, OR ANY STRUCTURE THAT REQUIRES COMPACTED FOUNDATION OR CONTROLLED BACK FILL. ADDITIONAL COMPACTION TESTS SHALL ALSO BE TAKEN EVERY 3 VERTICAL FEET OF BACK FILL.</p> <p>35. ALL AREAS DISTURBED BY THE CONSTRUCTION ACTIVITIES OF THIS PROJECT SHALL BE RESTORED, RE-GRADED IN A MANNER ACCEPTABLE TO THE OWNER AND ENGINEER. RESEEDING IS NOT REQUIRED FOR THIS PROJECT.</p> <p>36. EXCESS MATERIAL, IF APPLICABLE, SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.</p> <p>37. OBSTRUCTIONS REMOVED FROM THE WORK AREAS SHALL BE DISPOSED OF BY THE CONTRACTOR. DISPOSAL OF USABLE MATERIALS (E.G., EXCESS DIRT, GRAVEL, ETC.) SHALL BE AT A SITE DESIGNATED BY THE OWNER DURING CONSTRUCTION. THE DISPOSAL SITE FOR EXCESS MATERIAL MUST BE APPROVED BY THE PROJECT MANAGER AND ENGINEER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE A DISPOSAL</p> |
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ABBREVIATIONS

AWWA	AMERICAN WATER WORKS ASSOCIATION
CBC	CONCRETE BOX CULVERT
C or CL	CENTERLINE
CI	CAST IRON
CO	CLEANOUT
CMP	CORRUGATED METAL PIPE
D.I.	DUCTILE IRON
DIA.	DIAMETER
E.G.	FOR EXAMPLE
EXIST.	EXISTING
FIG.	FIGURE
FL	FLANGE
FNPT	FEMALE NATIONAL PIPE THREAD
GALV.	GALVANIZED
HDPE	HIGH DENSITY POLYETHYLENE PIPE
I.D.	INNER DIAMETER
LF	LINEAR FEET
MAX.	MAXIMUM
mA	MILLIAMPERE (ONE THOUSANDTH OF AN AMP)
MIN.	MINIMUM
M.J.	MECHANICAL JOINT
M.H.	MANHOLE
MRGCD	MIDDLE RIO GRANDE CONSERVANCY DISTRICT
NMED	NEW MEXICO ENVIRONMENT DEPARTMENT
NTS	NOT TO SCALE
O.D.	OUTER DIAMETER
PE	POLYETHYLENE
psi	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
SCH.	SCHEDULE
SPECS	SPECIFICATIONS
STD.	STANDARD
USBOR	UNITED STATES BUREAU OF RECLAMATION

LEGEND

	EXISTING FENCE (WIRE, WOOD, ETC.)
	EXISTING CHAIN LINK FENCE
	EXISTING WATERLINE W/ VALVE
	EXISTING SANITARY SEWER LINE W/ MH
	EXISTING OVERHEAD ELECTRIC, W/ POLE & GUY WIRE
	EXISTING UNDERGROUND ELECTRIC
	EXISTING OVERHEAD TELEPHONE LINE
	EXISTING UNDERGROUND TELEPHONE LINE W/ PEDESTAL OR MH
	EXISTING GAS LINE W/ METER
	EXISTING UNDERGROUND CABLE TV W/ PEDESTAL
	EXISTING UNDERGROUND FIBER OPTIC LINE
	EXISTING GUARDRAIL
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING WELL
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING MONITOR WELL
	EXISTING MAILBOX
	EXISTING ELECTRIC METER
	EXISTING SIGN
	SURVEY CONTROL POINT OR BENCHMARK
	NEW 8" DR17 HDPE PIPE
	NEW 3" HDPE PIPE (LATERALS)
	NEW HDPE REDUCER
	HDPE CAP & STUB
	NEW BALL VALVE
	NEW AIR RELEASE VALVE
	NEW SEWER CLEANOUT
	SINGLE WW SINGLE SERVICE LINE, DIAMETER IN INCHES AS INDICATED
	DOUBLE WW SINGLE SERVICE LINE, DIAMETER IN INCHES AS INDICATED
	PAVED ROAD
	RIGHT-OF-WAY (ROW)

PROJECT SPECIFIC NOTES

1. THE 8" HDPE STEP COLLECTION TRANSMISSION PIPE MAIN SHALL BE INSTALLED BY DIRECTIONAL DRILLING.
2. ANY 2" AND 3" SYSTEM LATERALS AND SERVICE CONNECTIONS SHALL BE INSTALLED BY OPEN TRENCH METHOD. STEEL CASING IS REQUIRED FOR ALL PIPING BENEATH CORRALES ROAD (STATE HIGHWAY 448).
3. HOURS OF CONSTRUCTION FOR CORRALES ROAD AND COORS BLVD. ARE LIMITED TO WEEKDAYS FROM 9:00 AM TO 3:30 PM AND 8:30 PM TO 5:30 AM PER THE NMDOT DISTRICT 3 TRAFFIC ENGINEER, ALAMEDA BLVD. HOURS OF CONSTRUCTION ARE LIMITED TO 8:30 PM TO 5:30 AM.
4. SINGLE LANE ACCESS MUST BE AVAILABLE AT ALL TIMES ON CORRALES ROAD (STATE HIGHWAY 448).
5. ACCESS IMPACTS TO ALL PROPERTIES AND ROADS INTERSECTING CORRALES ROAD (STATE HIGHWAY 448) SHALL BE MINIMIZED.


RECORD DRAWING

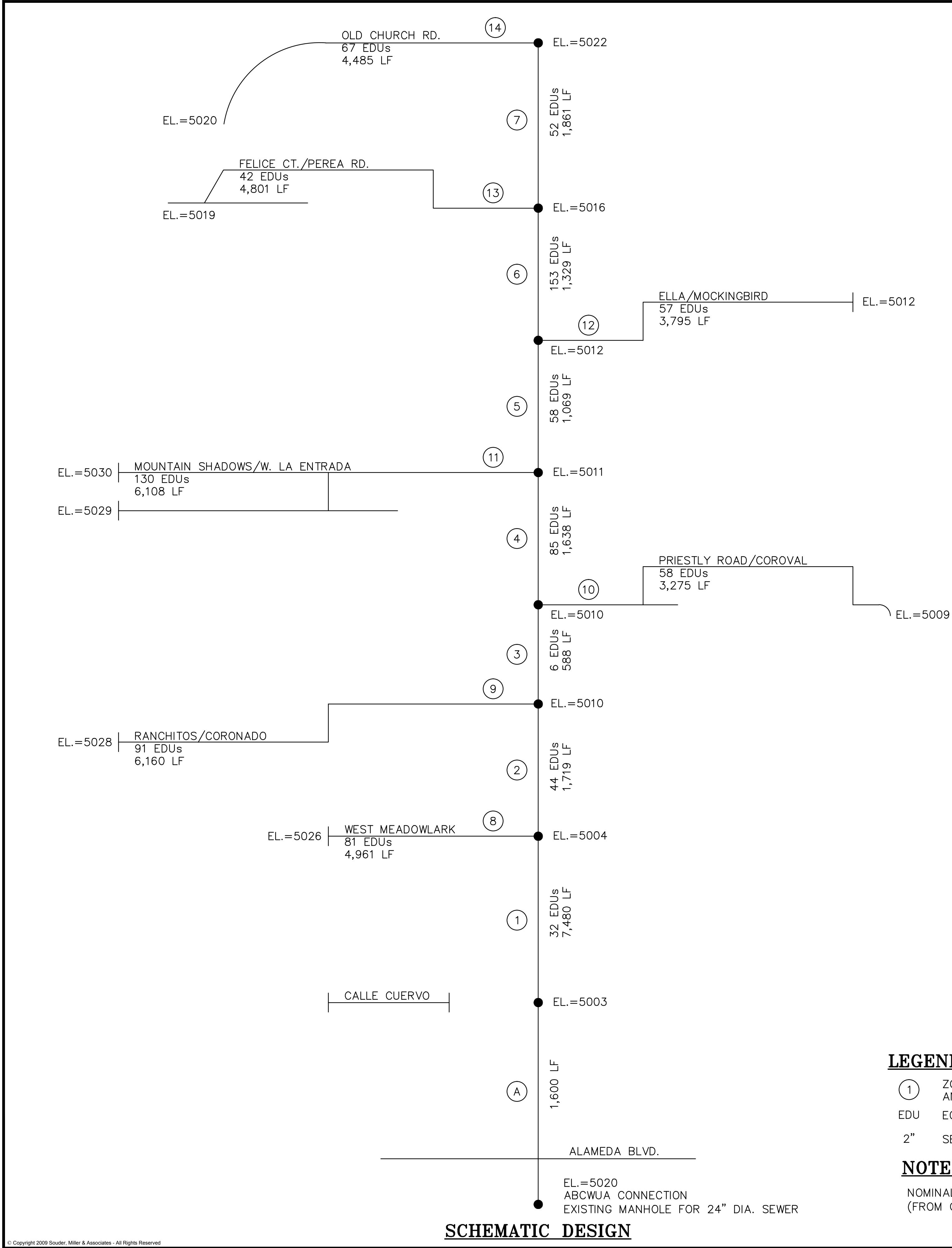
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DATE ENGINEER



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	1	08-11	REVISE DATE RE-SIGN AND SEAL	MLS	JAM						
	Drawn OGM	Checked JAM	Approved JAM								
<p>THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED</p>											
<p>Date: August 2012</p>											
<p>Scale: Horiz: NO SCALE Vert:</p>											
<p>Project No: 64177098</p>											
<p>Sheet: G-2</p>											



LEGEND

- ① ZONES FOR CALCULATION AND DESIGN
- EDU EQUIVALENT DWELLING UNIT
- 2" SERVICE LINE DIAMETER

NOTES

NOMINAL DISTANCE AND ELEVATIONS
(FROM GOOGLE EARTH, CURRENT SURVEYS SIMILAR)

DESIGN CALCULATIONS

STEP SEWER COLLECTION MAIN and LATERAL DESIGN

Business Core WW Collection/Transmission - Phases 1, 2 & 3
Village of Corrales, NM
7/19/2011 JAM

Zone No.	Zone Description	EDUs	Cumulative EDUs	Zone Flow Q (gpm)	Cumulative Zone Flow Q (gpm)	Pipe Length (ft.)	Pipe O.D. (in.)	Pipe I.D. (in.)	Start Elev. (ft. MSL)	End Elev. (ft. MSL)	Slope (%)	Zone headloss (psi)	System headloss (psi)	V Zone (fps)
Collection/Transmission Main														
A-1	Magmeter Vault	0	956	0	478	16	6.625	5.799	5020	5013	43.75%	5.68	73.54	5.81
A	ABCWUA - Calle Cuervo	0	956	0	478	1,600	8.625	7.549	5020	5003	1.06%	13.00	67.86	3.43
1	Calle Cuervo - Meadowlark Lane	32	956	16	478	7,480	8.625	7.549	5003	5008	-0.07%	15.89	54.86	3.43
2	Meadowlark Lane - Coronado	44	924	22	462	1,719	6.625	5.58	5008	5010	-0.12%	19.92	38.98	6.06
3	Coronado - Coroval	6	880	3	354	588	6.625	5.58	5010	5010	0.00%	3.60	19.06	4.64
4	Coroval - W. La Entrada	85	874	43	322	1,638	6.625	5.58	5010	5011	-0.06%	10.67	15.46	4.22
5	W. La Entrada - Ella/Mockingbird	58	789	29	214	1,089	6.625	5.58	5011	5012	-0.09%	3.60	4.79	2.81
6	Ella / Mockingbird - Perea	153	731	76	157	1,329	6.625	5.58	5012	5014	-0.15%	1.51	1.19	2.06
7	Perea-Old Church	52	578	26	59	1,861	6.625	5.58	5016	5018	-0.11%	-0.32	-0.32	0.78
Neighborhood Laterals														
8	W. Meadowlark	81	526	41	41	4,961	3.500	3.064	5008	5026	-0.36%	4		1.76
9	Ranchitos/Coronado	91	445	46	46	6,160	3.500	3.064	5010	5028	-0.29%	10		1.98
10	Priestly/Coroval	58	354	29	29	3,275	2.375	2.079	5010	5009	0.03%	27		2.74
11	Mt. Shadows / W. La Entrada	130	296	65	65	6,108	3.500	3.064	5011	5030	-0.31%	31		2.83
12	Ella / Mockingbird	57	166	29	29	3,795	2.375	2.079	5012	5012	0.00%	29		2.69
13	Felice / Perea	42	109	21	21	4,801	2.375	2.079	5016	5019	-0.06%	18		1.98
14	Old Church Rd - Mama Rd	67	67	34	34	4,485	3.500	3.064	5018	5020	-0.04%	7		1.46

Notes: 1) Qdesign: 0.5 gpm/EDU (Small and Decentralized Wastewater Management Systems, Crites & Tchobanoglous, 1998)
2) DR 17 (100 psi) HDPE Pipe

HMED Liquid Waste Average Flows					
Occupancy	gpd	Unit	No. Units	Total (gpd)	EDUs
Small office (OFF)	20	employee	10	200	1
Large office (LOFF)	20	employee	30	600	3
Restaurant	40	seat	100	4,000	20

HMED WW Discharge Permits	gpd	gph	gpm	Peak (3x)	
Village Pizza	5,000	417	7	21	(12 hour day)
Corrales Community Center	1,200	100	2	5	(12 hour day)
Corrales Municipal Complex	2,080	173	3	9	(12 hour day)
Corrales Elementary School	13,300	1,663	28	83	(8 hour day)
Rancho de Corrales Restaurant	750	63	1	3	(12 hour day)

EDU Calculations		200 gpd per EDU One EDU = 200 gpd (average residence or small office)					
EDUs		Small Off./ Residence	Large Office	Permitted Facility	Exist./Future Restaurant	Total gpd	EDUs
	Permitted or Prescriptive GPD Flow	200	600	varies	4,000		
Zone No.	Zone Description						
1	Meadowlark Lane to Calle de Cuervo	20	4				
		4,000	2,400			6,400	32
2	Meadowlark Lane to Coronado	9	5		1		
		1,800	3,000		4,000	8,800	44
3	Coronado to Coroval		2				
			1,200			1,200	6
4	Coroval to W. La Entrada	6	8	2	2		
		1,200	1,600	6,200	8,000	17,000	85
5	W. La Entrada to Ella (Mockingbird)	10	6	1	1		
		2,000	3,800	2,080	4,000	11,680	58
6	Ella (Mockingbird) to Perea	6	4	1	4		
		1,200		13,300	16,000	30,500	153
7	Perea to Old Church	13	5	1	1		
		2,600	3,000	750	4,000	10,350	52
8	W. Meadowlark	81					
		16,200				16,200	81
9	Ranchitos/Coronado	91					
		18,200				18,200	91
10	Priestly / Coroval	58					
		11,600				11,600	58
11	Mt. Shadows/W. La Entrada	130					
		26,000				26,000	130
12	Ella / Mockingbird	57					
		11,400				11,400	57
13	Felice / Perea	42					
		8,400				8,400	42
14	Old Church Rd to Mama Rd	67					
		13,400				13,400	67
						Total EDUs	956
						Total gpd	191,130

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DATE ENGINEER

CLIENT: VILLAGE OF CORRALES

DESIGN CALCULATIONS
PHASE 2 & 3 BUSINESS CORE
WASTEWATER TRANSMISSION LINE
VILLAGE OF CORRALES, NEW MEXICO

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Scale: Horiz: NONE
Vert:

Project No: 6417098

Sheet: G-3

Survey Control Points: Corrales				
New Mexico State Plane Coordinates, Central Zone, NAD 83				
Combined Ground-to-Grid Factor: 0.9996799				
Elevations: NAVD 1988				
Description	Northing	Easting	Elevation	Location
ACS 6-A14	1,534,611.07'	1,524,030.52'	5002.022'	S. side of Applewood Rd., 0.5 miles W. of Corrales Road
ACS 8-B14	1,528,602.96'	1,521,096.79'	5025.358'	SW Quadrant of Coors Rd. & Old Airport Ave. NW
ACS 7-A14	Elevation only		5004.501'	SW Quadrant of Corrales Rd. & Cabezon Rd. NW

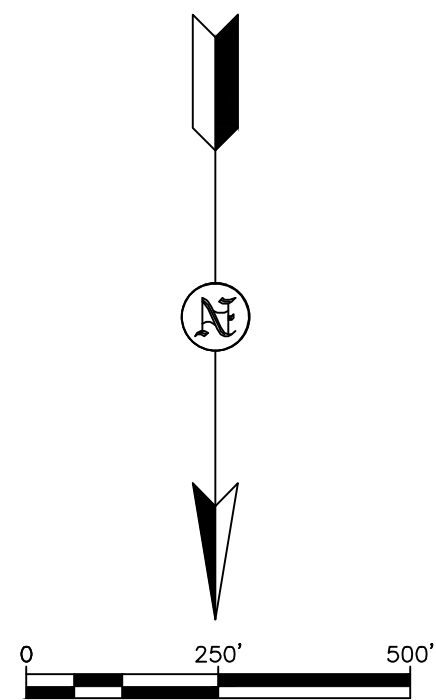
Additional Survey Points: Corrales				
Description	Northing	Easting	Elevation	Location
B/CAP 46-3 CP-6	1,534,486.87'	1,527,499.04'	5003.970'	Brass Cap, on N. side of Corrales Rd on W. side of private road
RBRPC LS 11452	1,533,767.96'	1,526,784.48'	5002.157'	Prop. Cor., Las Brisas de Corrales, Lots 1 & 2, S. side of Corrales Rd.
FD spike prop cor	1,531,530.80'	1,524,498.97'	5002.017'	Found Prop. Cor., Cadillo Acres, S. side of Corrales Rd.
FD 2" Pipe	1,531,001.85'	1,523,231.84'	5005.668'	Found pipe, NE intersection of Cabezon Rd. & Corrales Rd.
FD	1,531,197.13'	1,523,940.60'	5004.345'	Found survey marker, near intersection W. side San Mateo Drain ROW & Corrales Acequia ROW
FD 1" pipe	1,531,388.88'	1,524,160.49'	5005.201'	Found pipe W side of Uva Rd. near fence corner


TRANSMISSION LINE MAIN LAYOUT SURVEY CONTROL					
No.	Station	Northing	Easting	Elevation	Full Description
1	0+00	1534594.8730'	1528237.0980'	5003.800'	HZ CONTROL
2	1+00	1534500.2371'	1527746.5534'	5003.161'	HZ CONTROL
3	5+00	1534292.9153'	1527300.9937'	5002.495'	HZ CONTROL
4	10+00	1533937.5120'	1526949.3308'	5002.406'	HZ CONTROL
5	15+00	1533584.4040'	1526595.3839'	5001.578'	HZ CONTROL
6	20+00	1533232.0556'	1526240.6215'	5001.458'	HZ CONTROL
7	25+00	1532881.1353'	1525884.4804'	5001.543'	HZ CONTROL
8	30+00	1532526.7363'	1525531.7982'	5002.004'	HZ CONTROL
9	35+00	1532174.5487'	1525176.9121'	5001.308'	HZ CONTROL
10	40+00	1531828.6944'	1524815.8555'	5002.108'	HZ CONTROL
11	45+00	1531489.2811'	1524443.7593'	5001.640'	HZ CONTROL
12	50+00	1531157.9138'	1524074.4972'	5002.567'	HZ CONTROL
13	60+00	1530975.3759'	1523631.8967'	5005.223'	HZ CONTROL
14	65+00	1530933.4589'	1523134.7519'	5004.155'	HZ CONTROL
15	70+00	1530717.4590'	15230717.4590'	5006.205'	HZ CONTROL
16	74+00	1530435.9693'	1522409.3566'	5009.058'	HZ CONTROL



SURVEY CONTROL

Project control is based on City of Albuquerque Control Station Data points ACS 6-A14, ACS 7-A14 and ACS 8-B14. Coordinates are New Mexico State Plane Coordinates, Central Zone, NAD 83, that can be adjusted to obtain modified surface coordinates by dividing coordinates by the combined factor of 0.9996799. Elevations are NAVD 1988.



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		SURVEY CONTROL POINTS		Revision	
		PHASE 2 & 3 BUSINESS CORE		Date	
		WASTEWATER TRANSMISSION LINE		By	
VILLAGE OF CORRALES, NEW MEXICO		Checked			
Drawn	Checked	Approved			
OGM	JAM	JAM			
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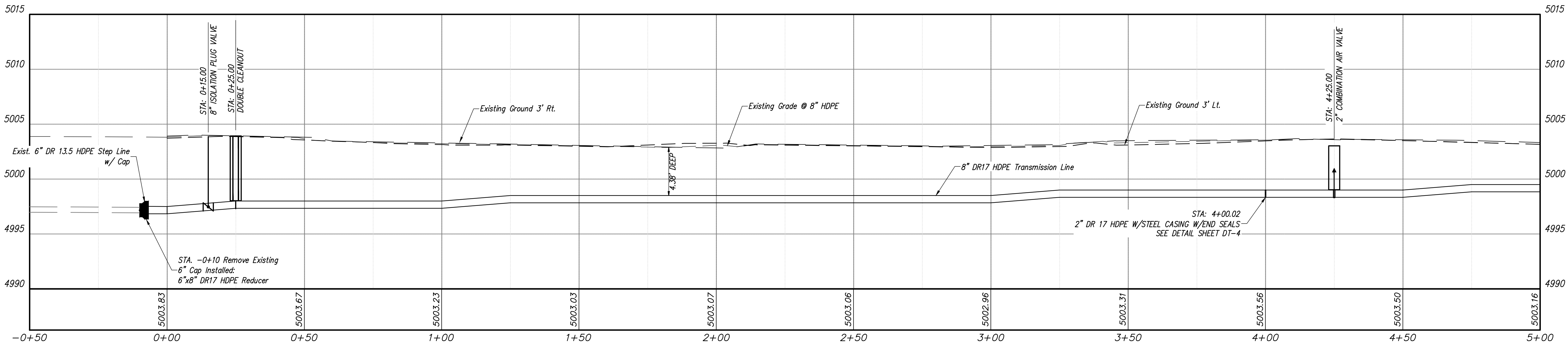


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PLAN VIEW



PROFILE VIEW

Revision	Date	Description	By	Check

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PHASE 2 & 3 BUSINESS CORE
WASTEWATER TRANSMISSION LINE
VILLAGE OF CORRALES, NEW MEXICO



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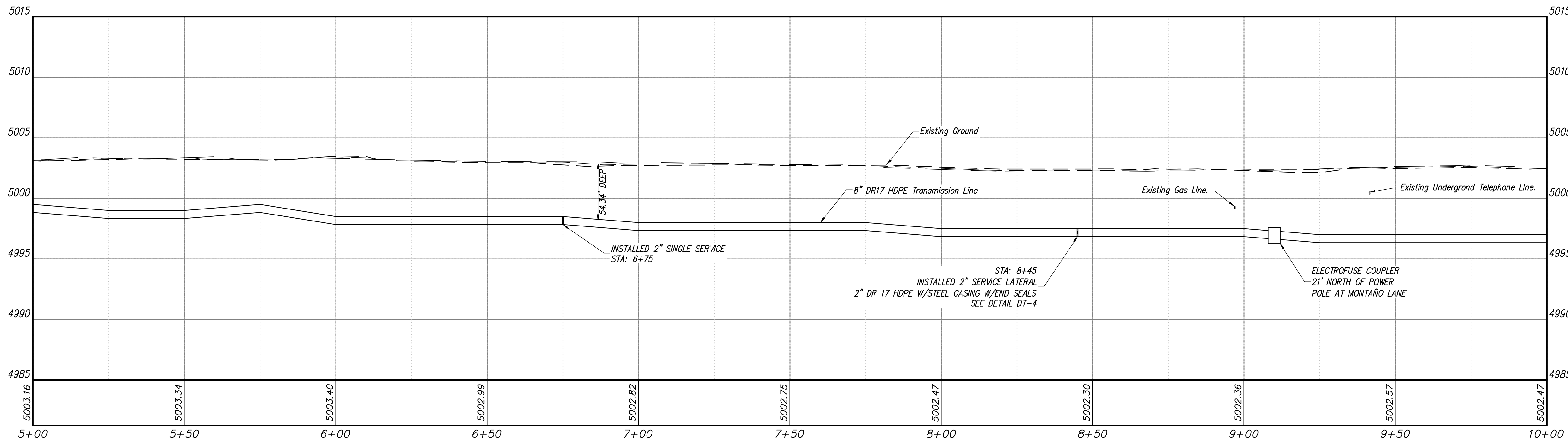


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PLAN VIEW



PROFILE VIEW

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PHASE 2 & 3 BUSINESS CORE
WASTEWATER TRANSMISSION LINE
VILLAGE OF CORRALES, NEW MEXICO

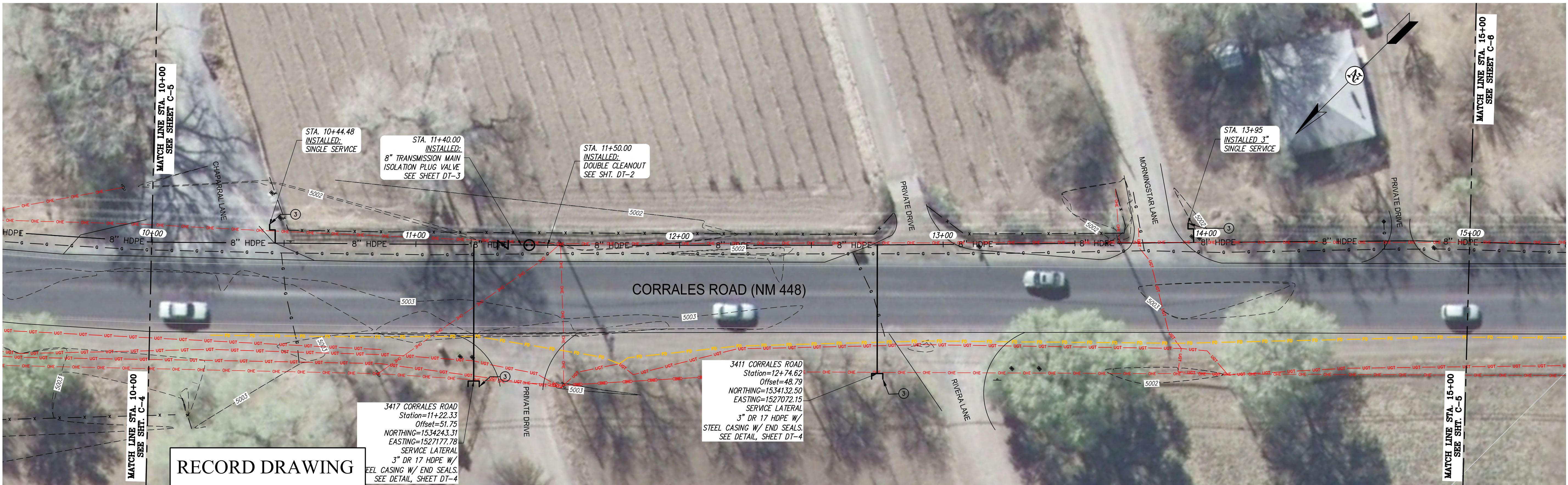
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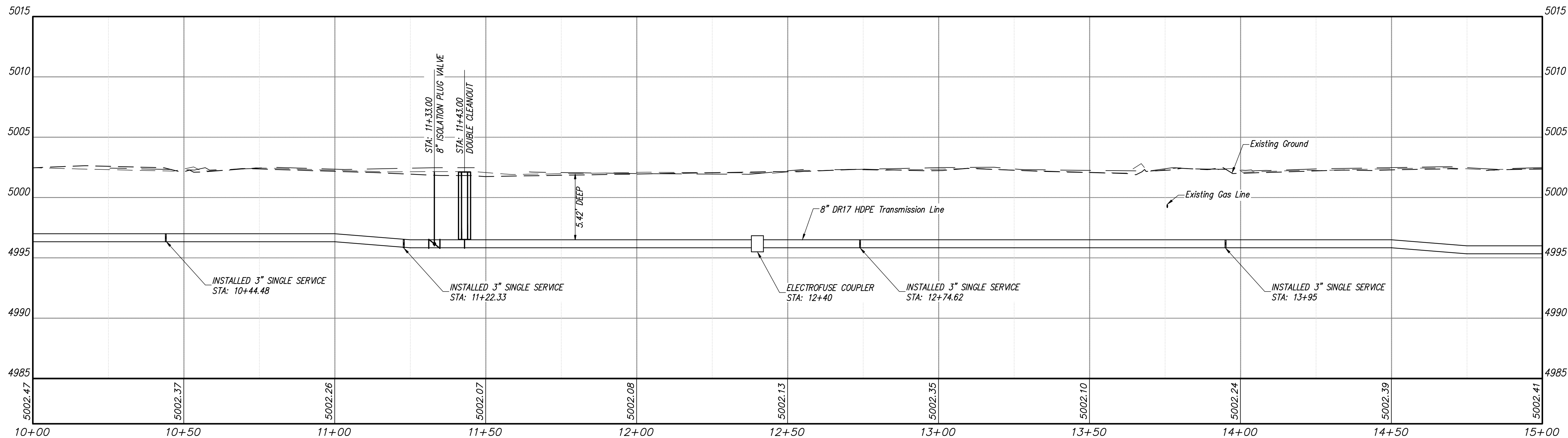


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PROFILE VIEW

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WASTEWATER TRANSMISSION LINE
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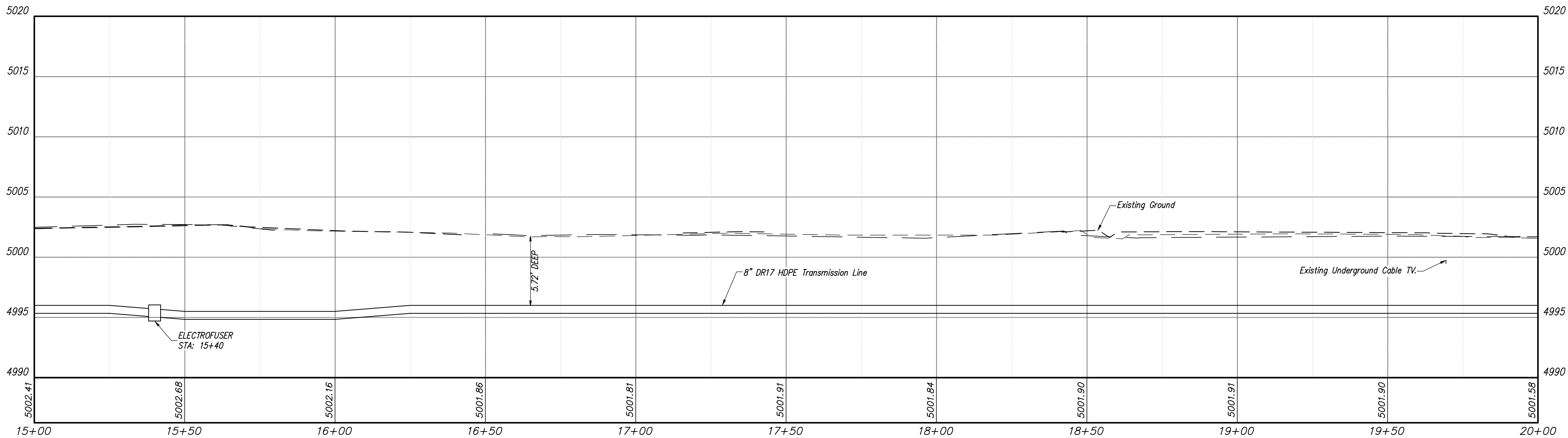


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PLAN VIEW



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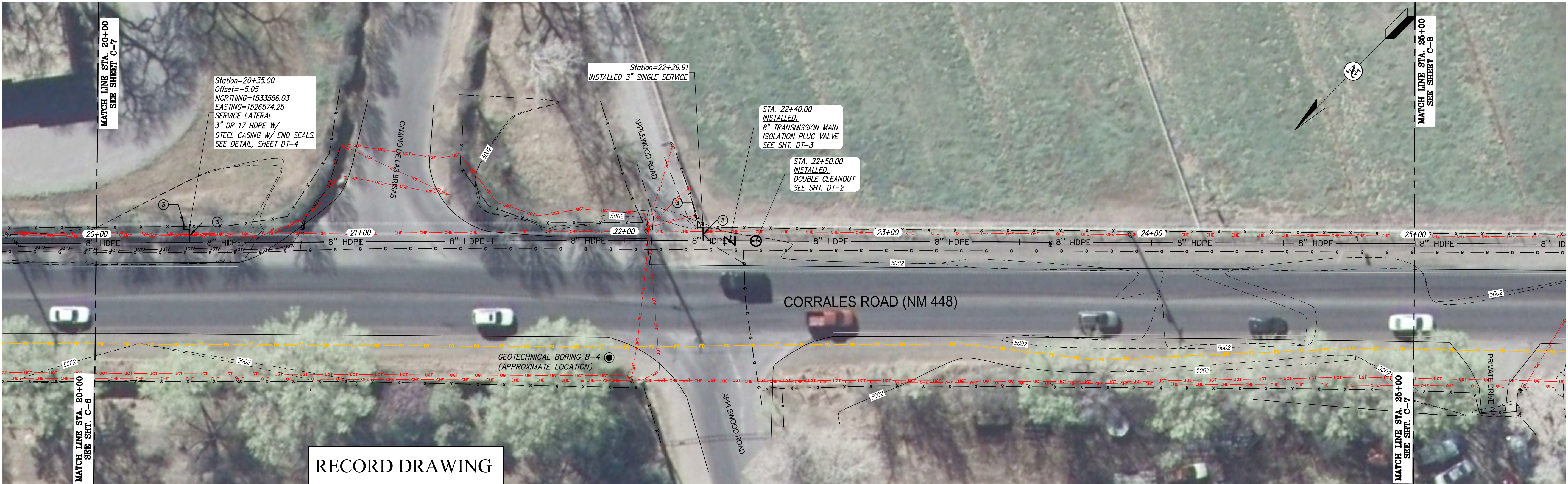
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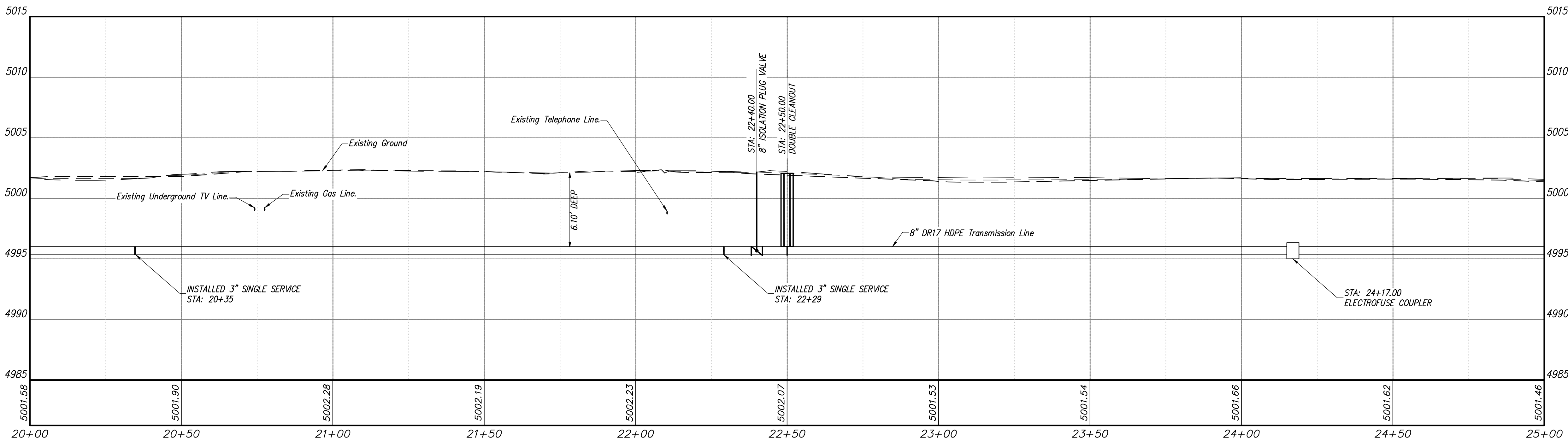


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PLAN VIEW



PROFILE VIEW

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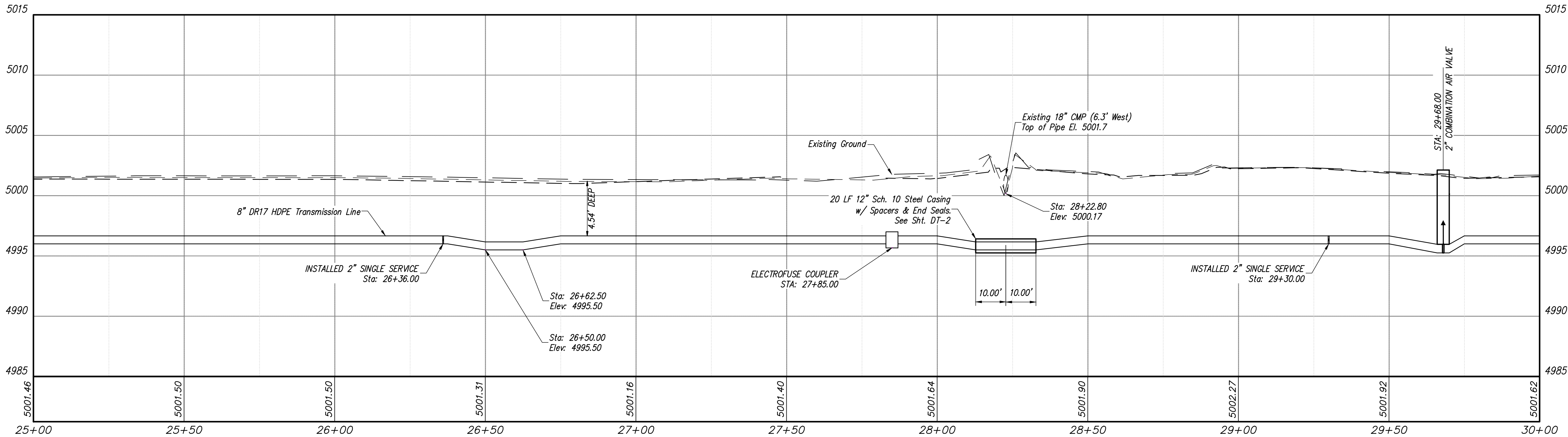


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Revision	Date	Description	By	Crkd
1	08-11	REVISE DATE	MLS	JAM
2	Aug-2012	RE-SIGN AND SEAL RECORD DRAWINGS	OGM	KUE

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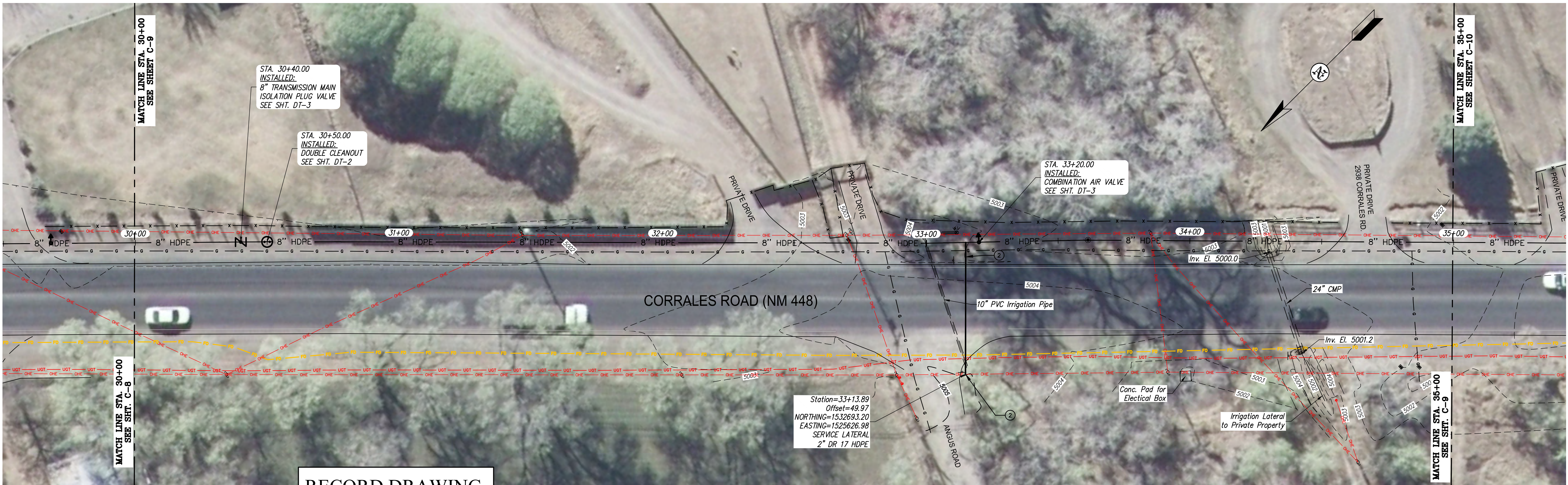
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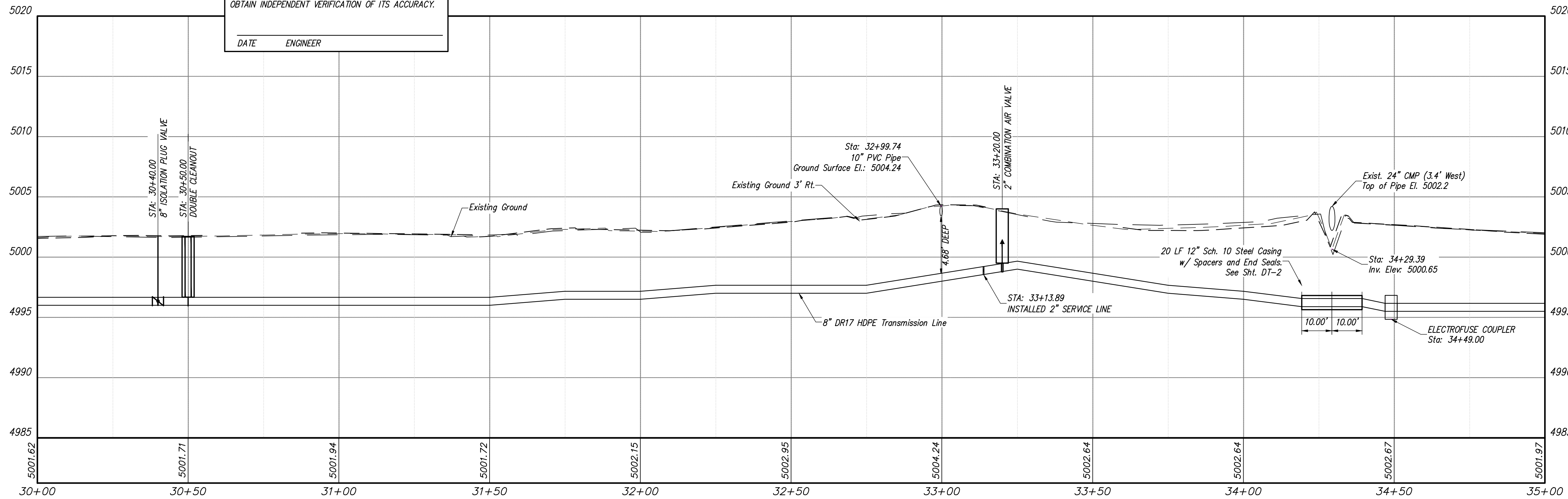


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1	08-11	REVISION DATE	MLS	JAM
2	Aug-2012	REVISION ISOLATION VALVE RECORD DRAWING	OGM	KJE

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VILLAGE OF CORRALES, NEW MEXICO



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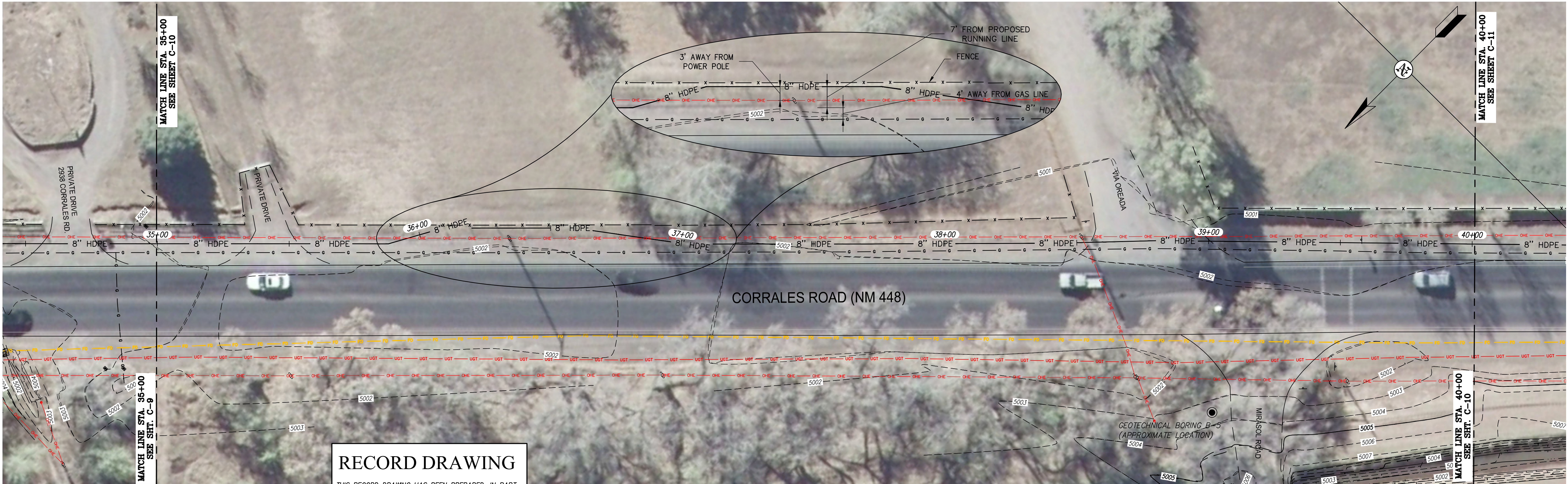
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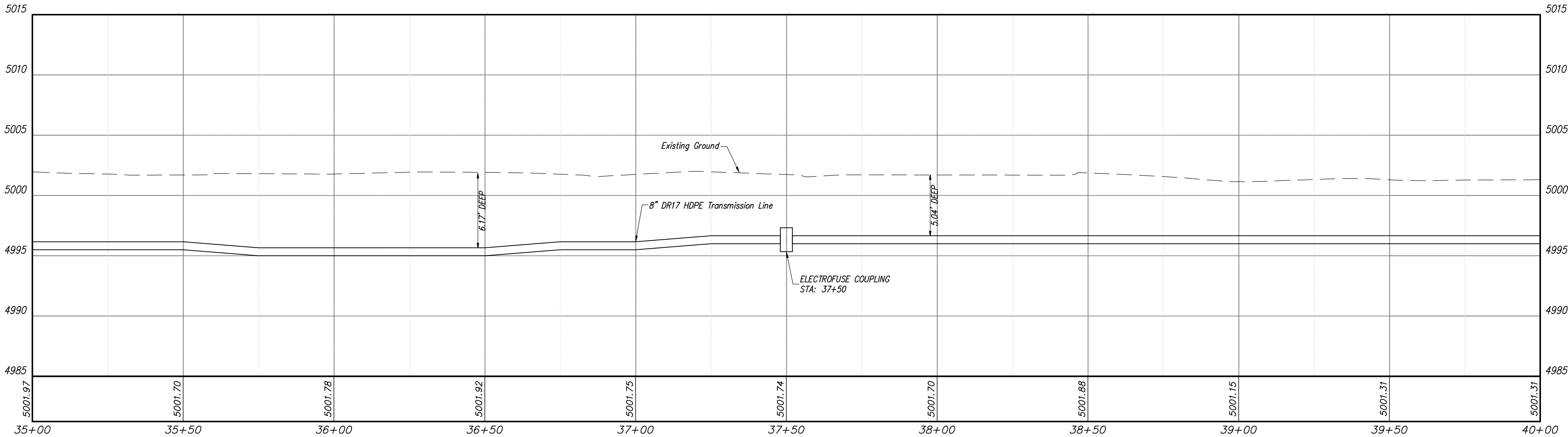


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2	Aug-2012	RE-SIGN AND SEAL RECORD DRAWING	OGM	KUE

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PHASE 2 & 3 BUSINESS CORE
WASTEWATER TRANSMISSION LINE
VILLAGE OF CORRALES, NEW MEXICO



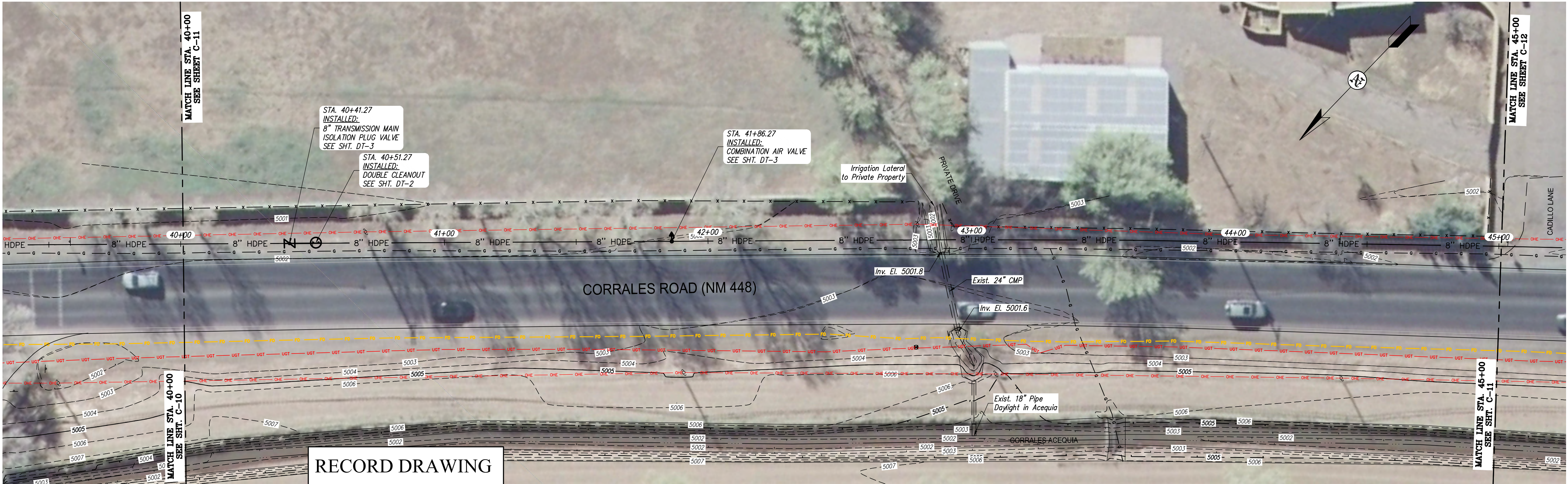
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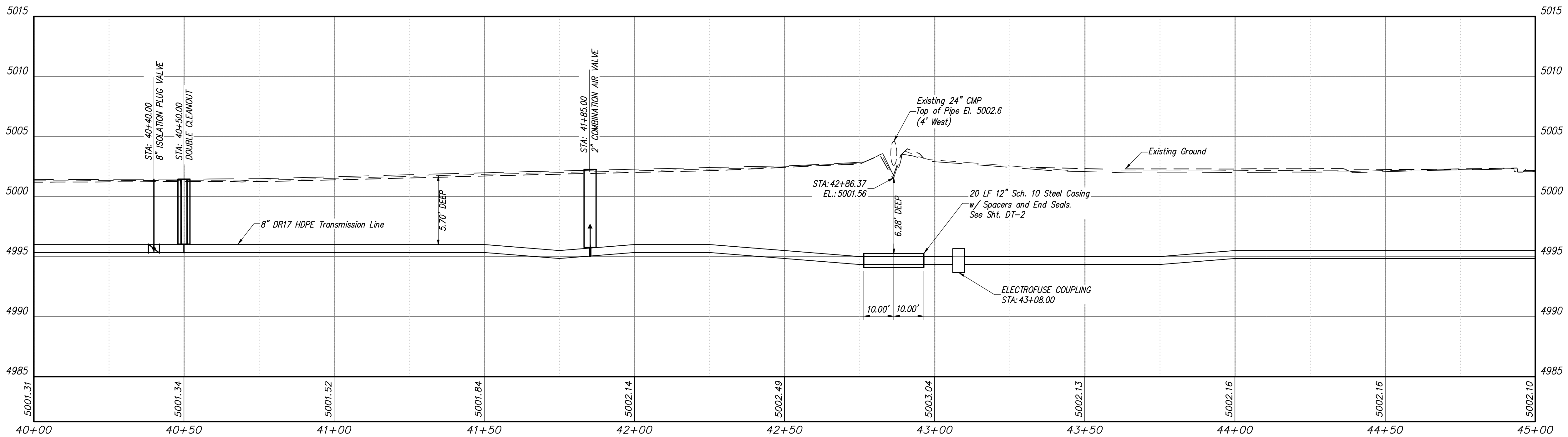


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PLAN VIEW



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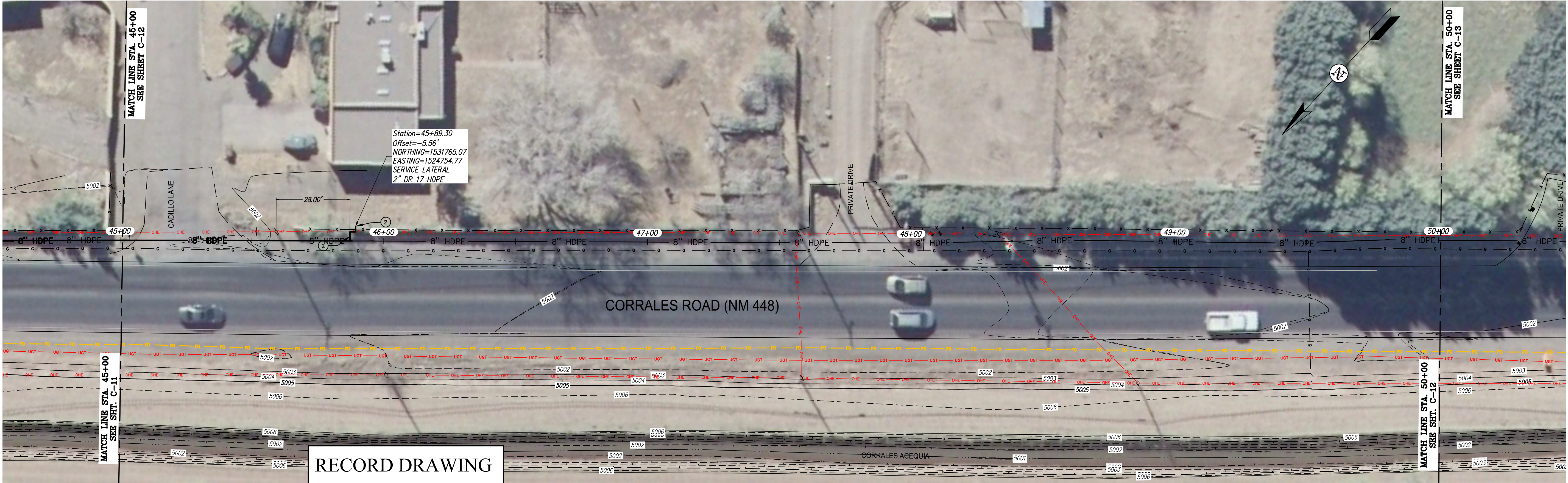
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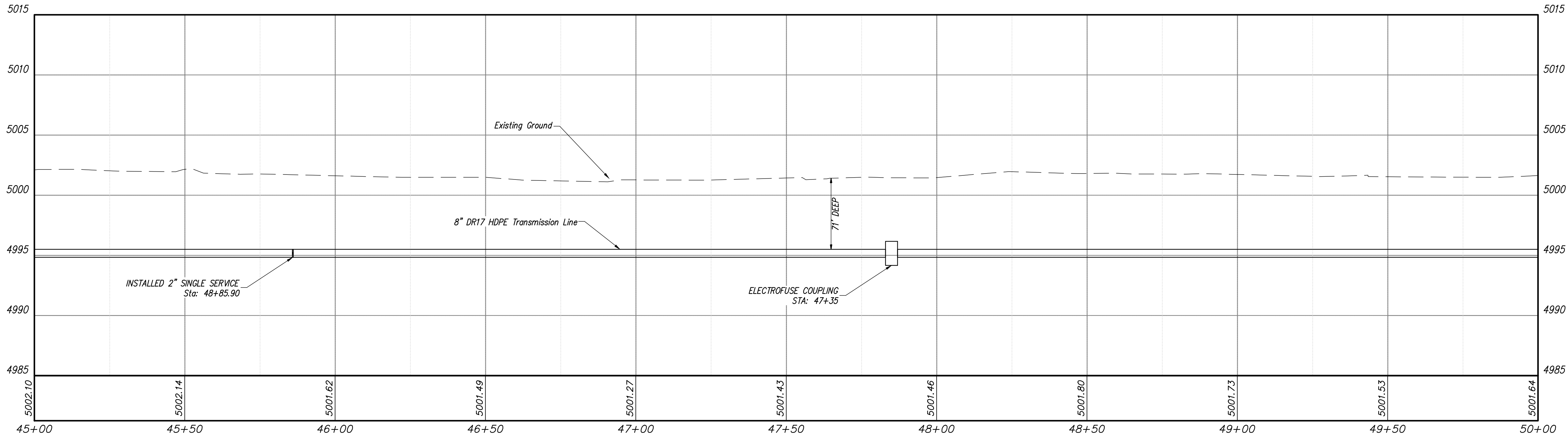


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PLAN VIEW



PROFILE VIEW

Revision	Date	Description	By	Crkd

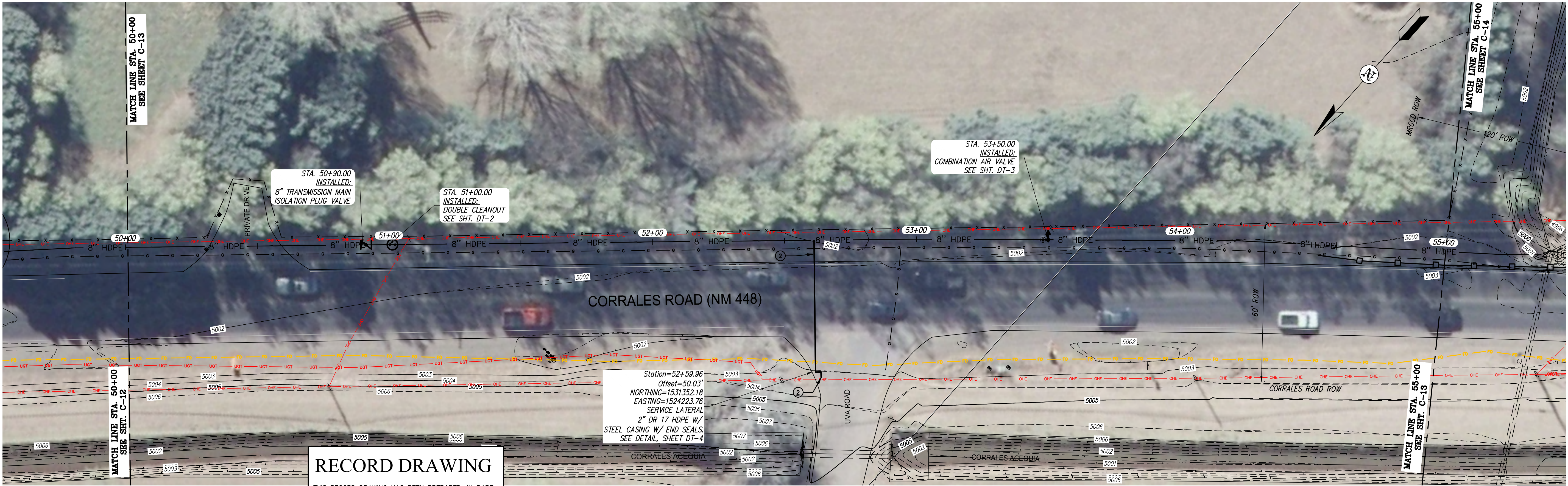
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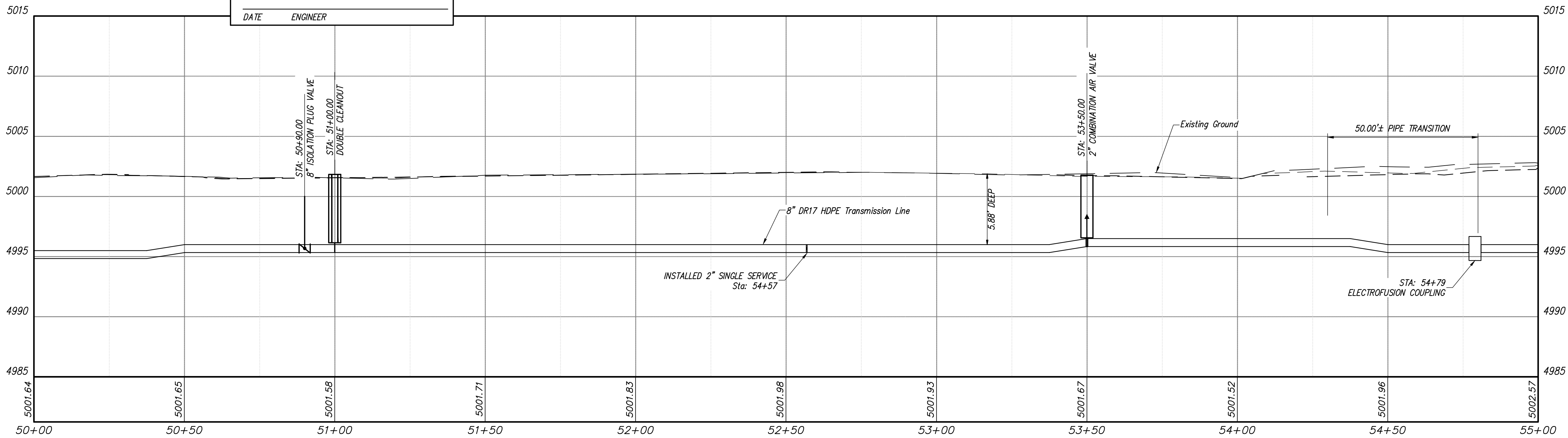


PLAN VIEW

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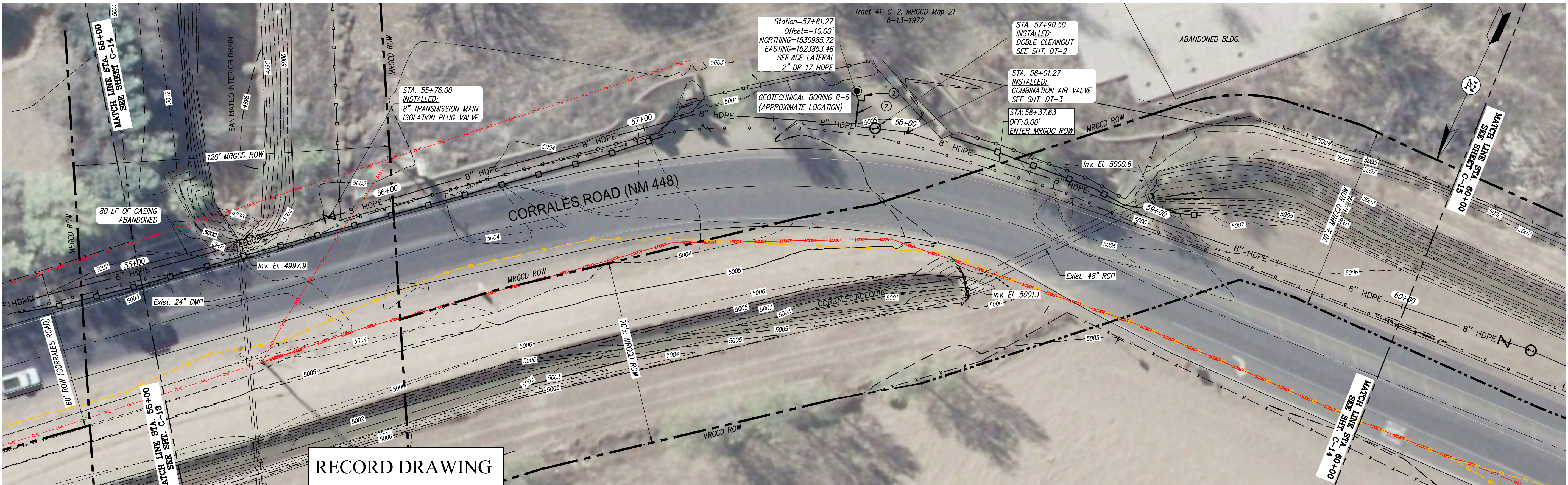
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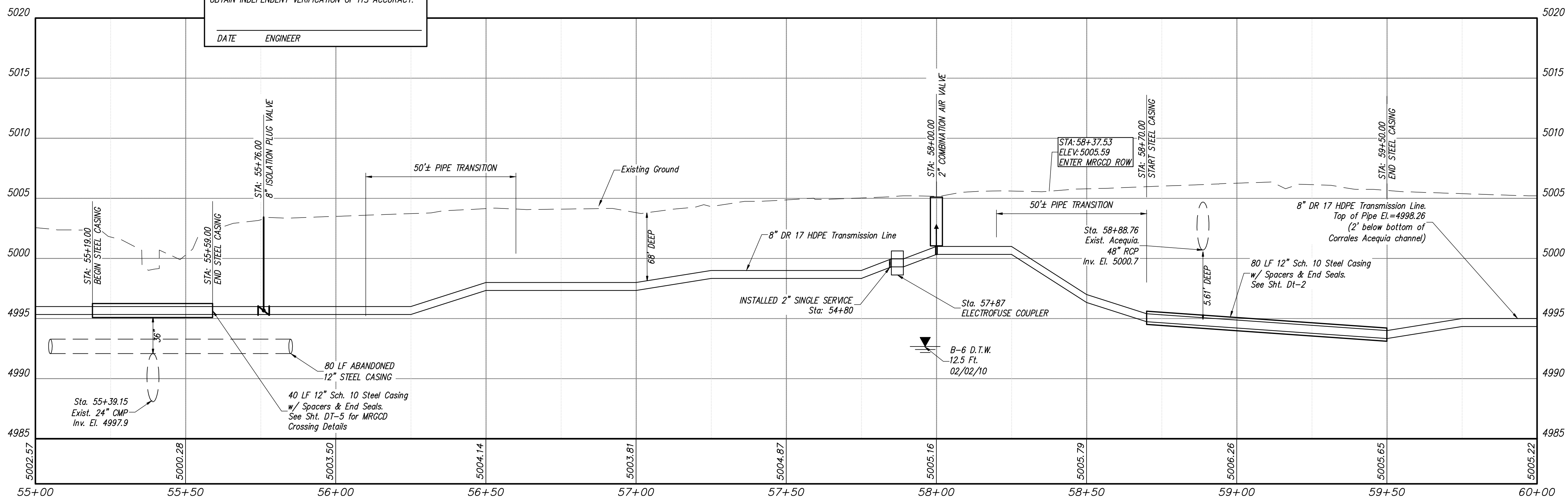


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PLAN VIEW



PROFILE VIEW

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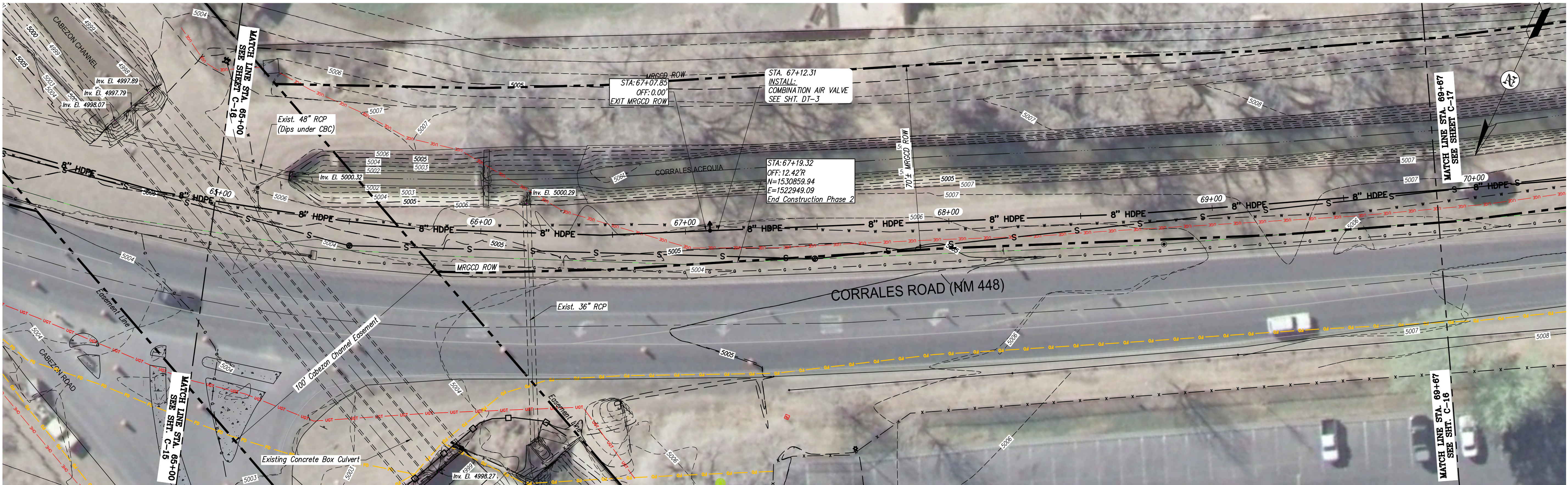
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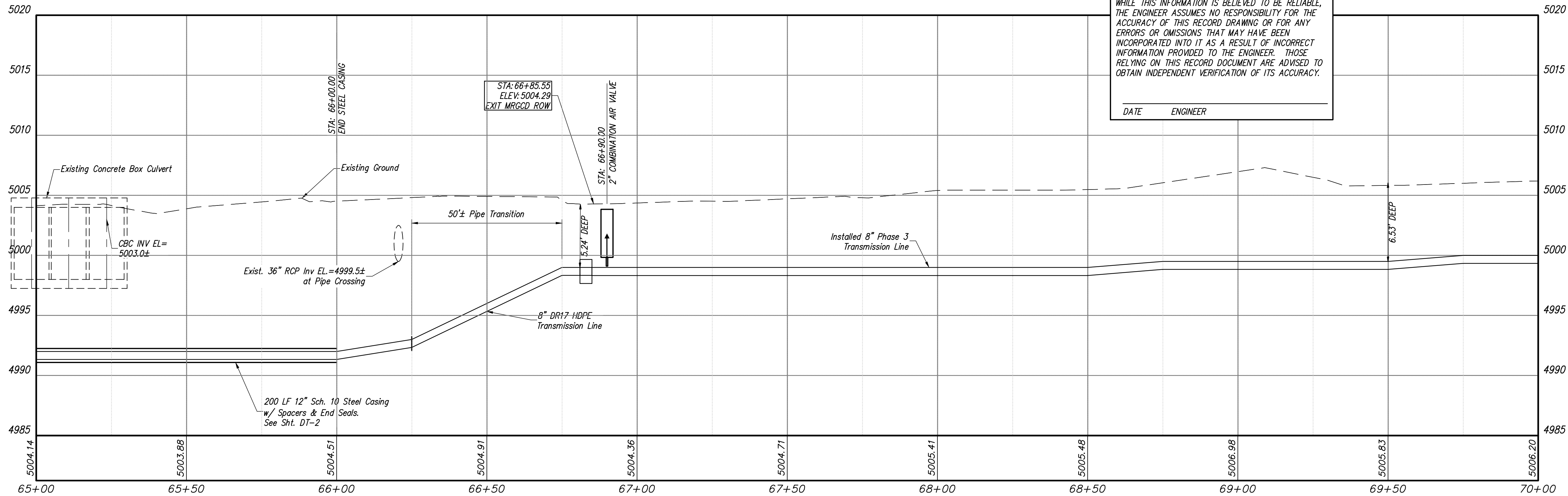


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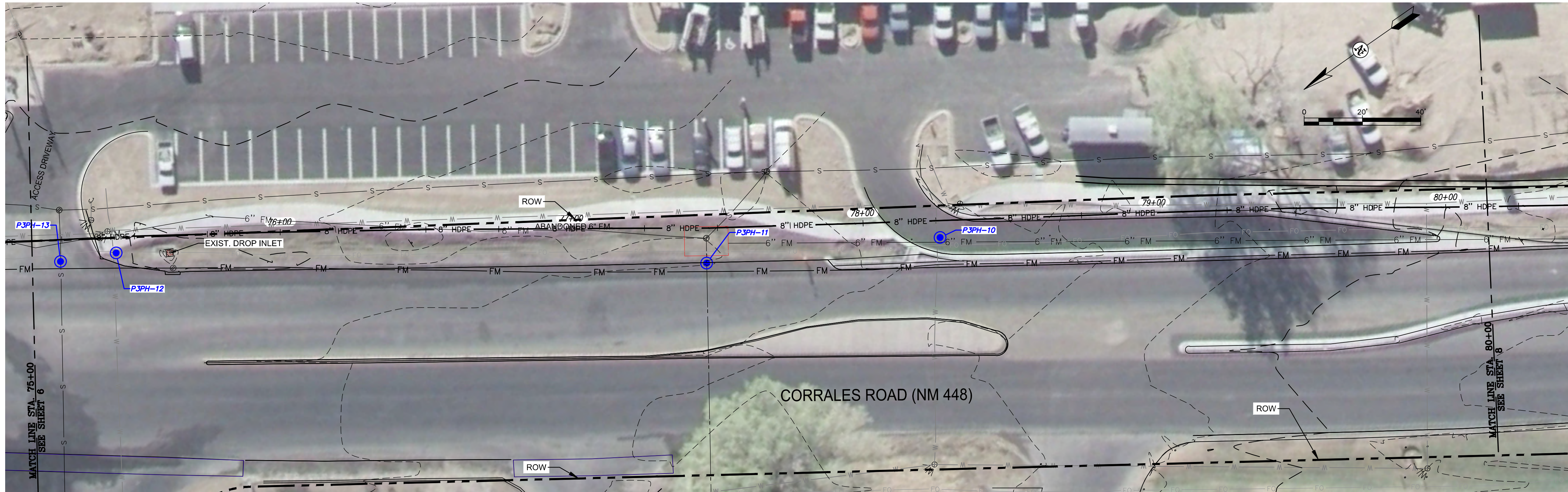
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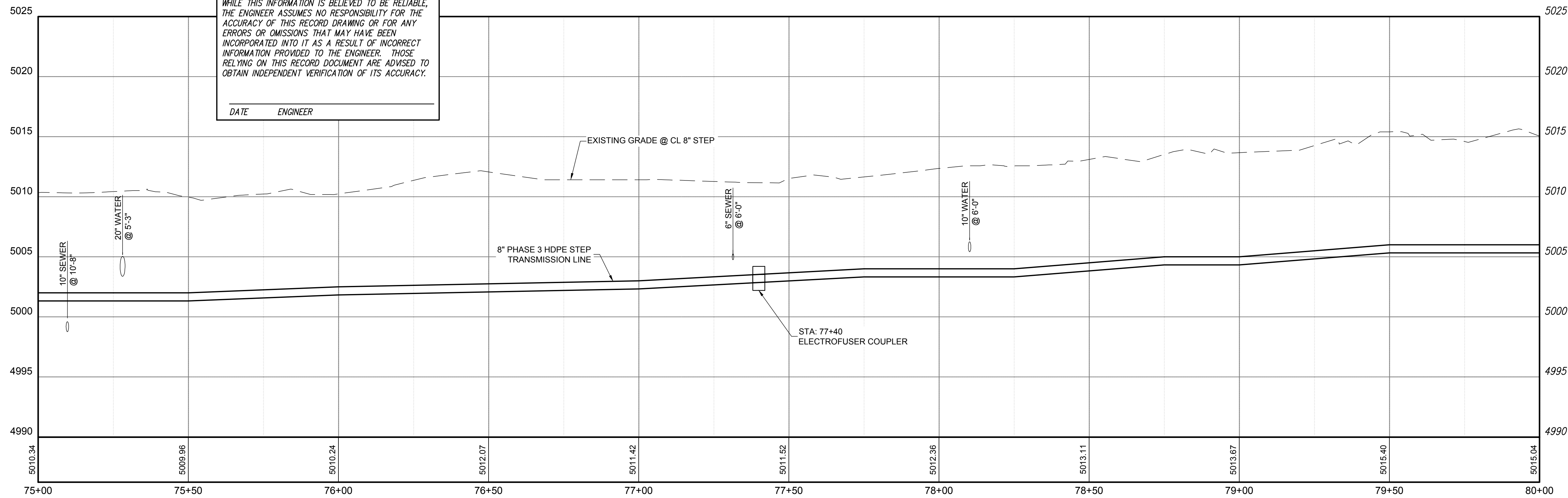


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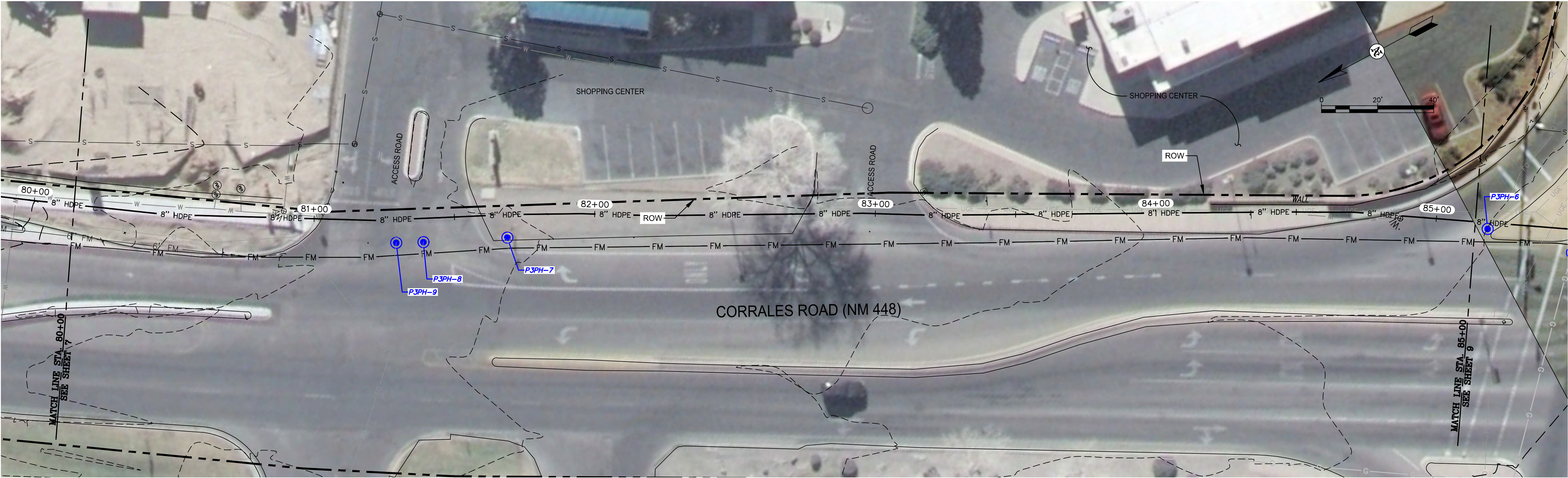
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Sheet: C-18

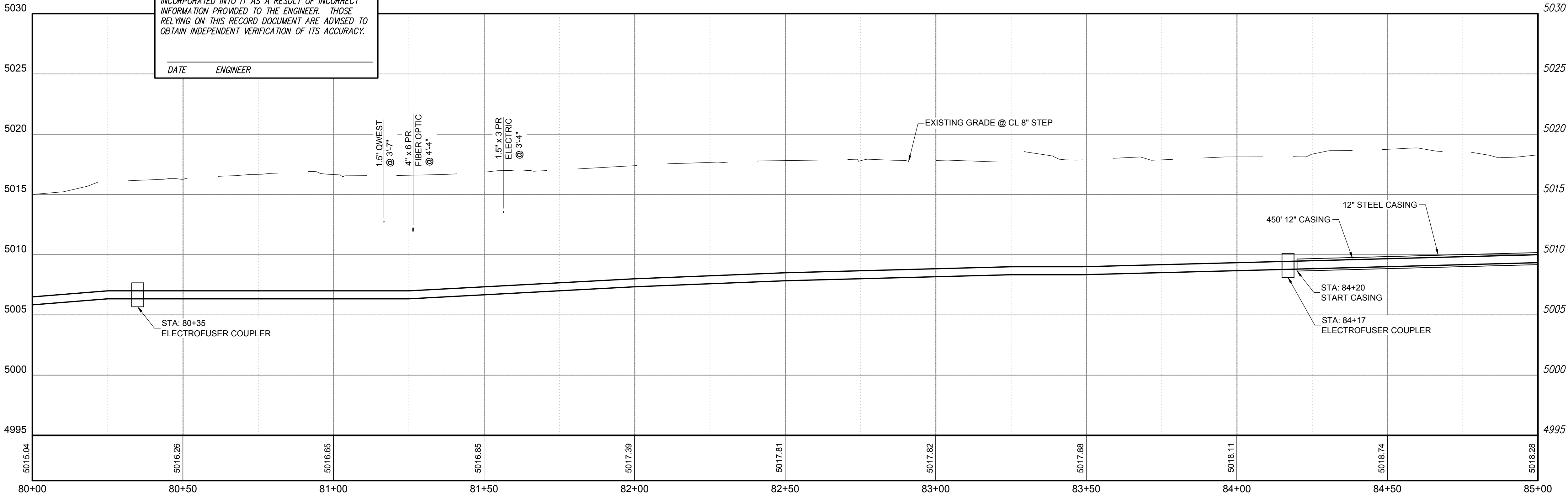


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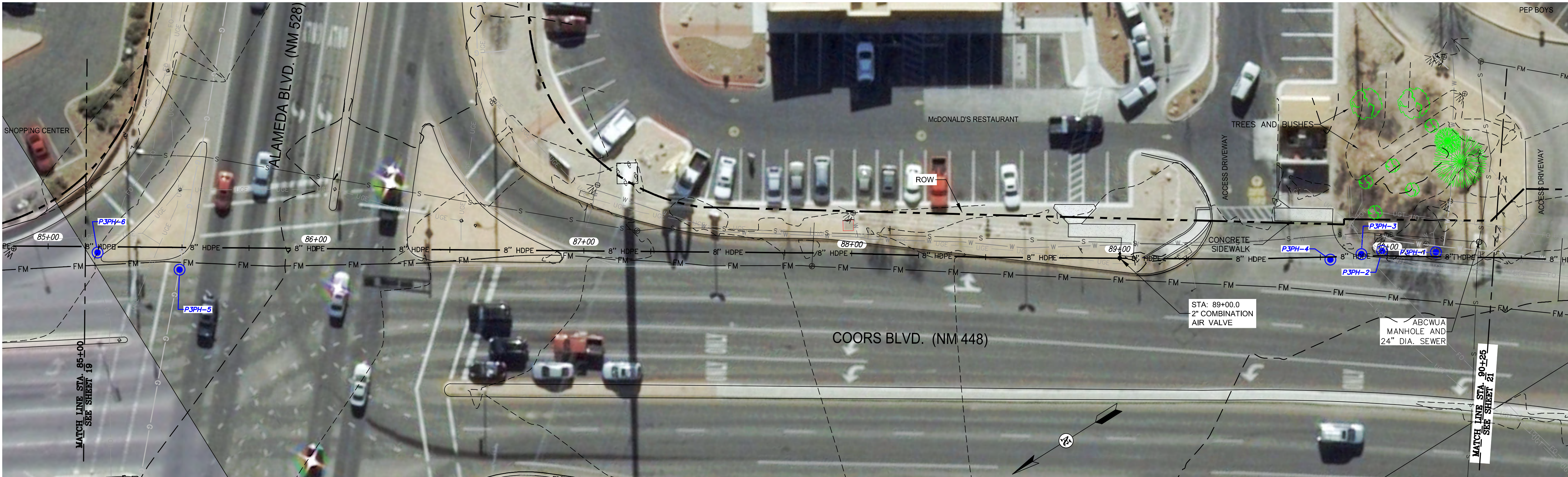
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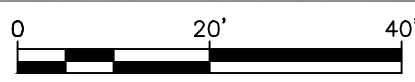
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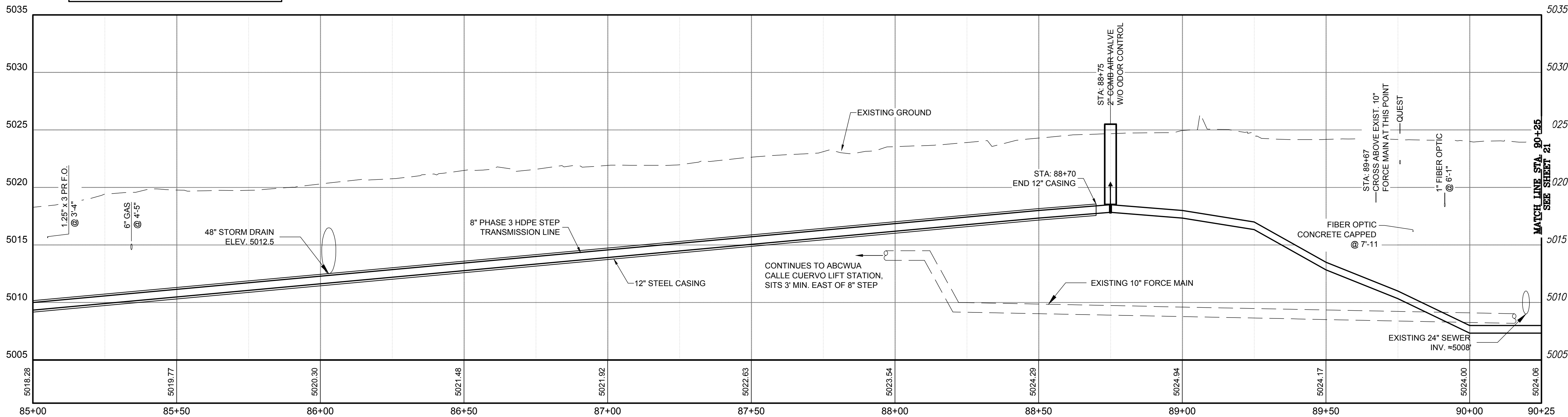
PLAN VIEW



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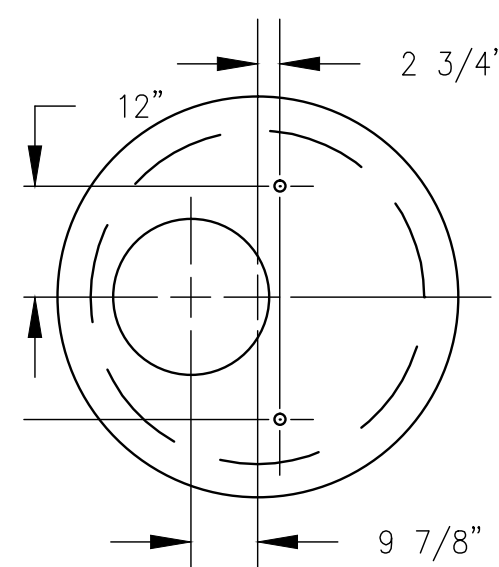
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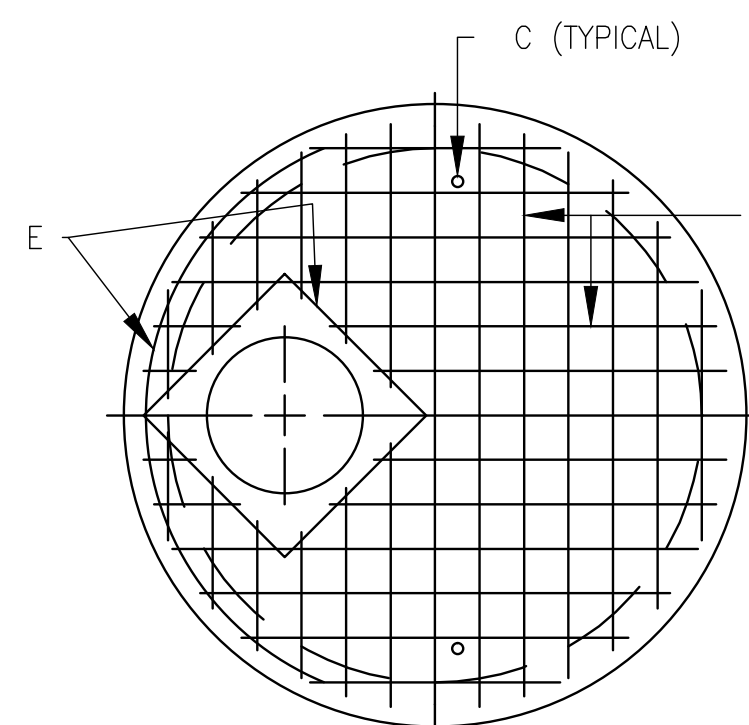
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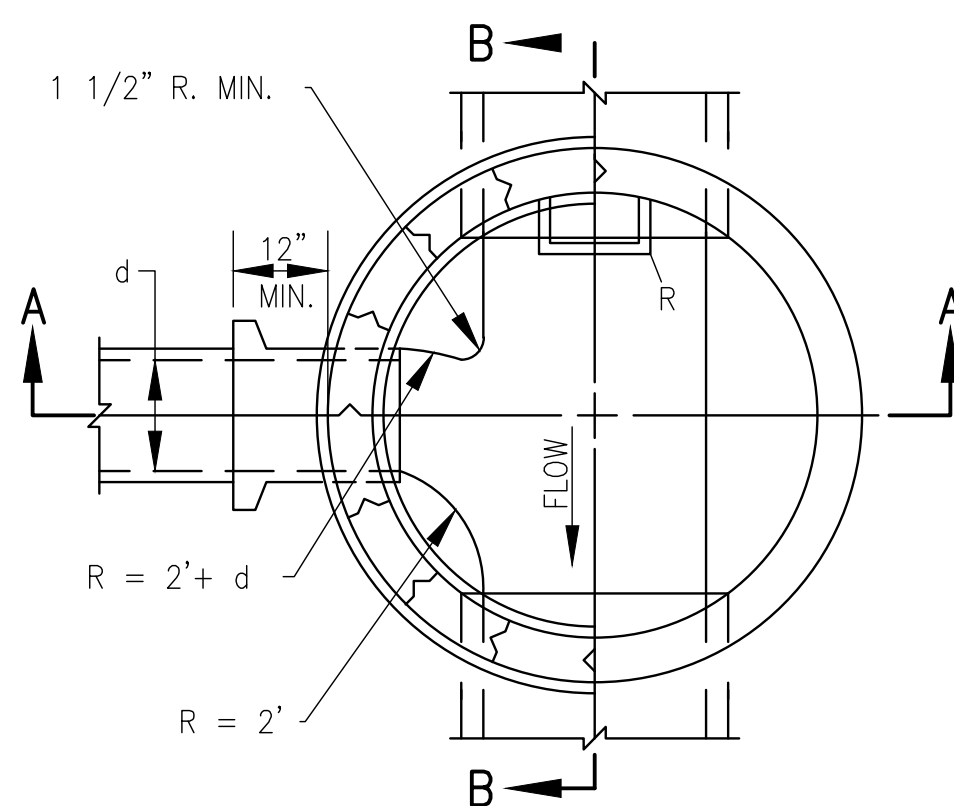


Technical drawing of a 4' x 10' M.H. showing internal structure and dimensions. The drawing includes a cross-section view on the left and a side elevation view on the right. The cross-section view shows a rectangular structure with a central opening. The side elevation view shows the structure with a central opening and a smaller opening on the right. Dimensions are provided for the overall size (4' x 10'), the central opening (8' x 10'), and the smaller opening (8' x 10'). The drawing also shows the internal structure, including the walls and the central opening.

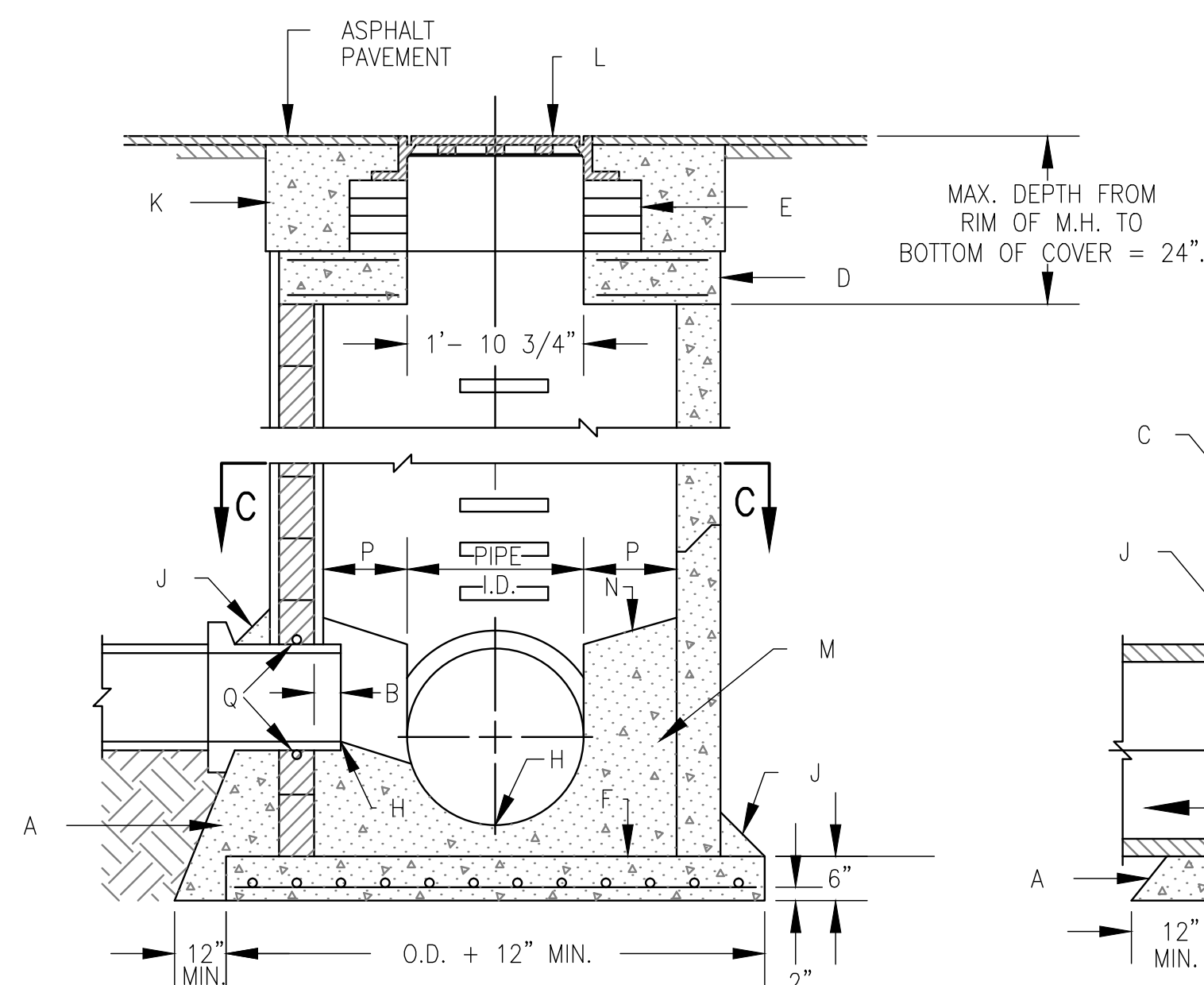
SECTION
A-A



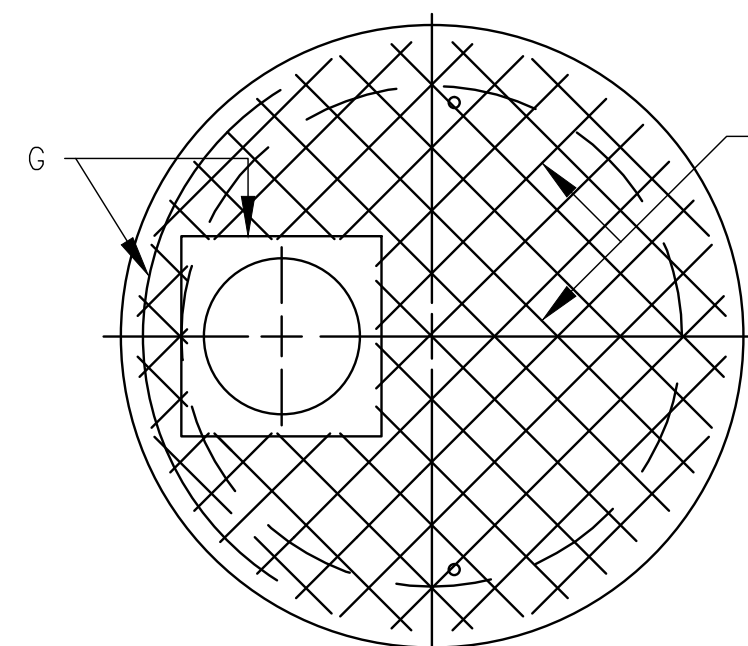
SECTION B-B
TOP MAT



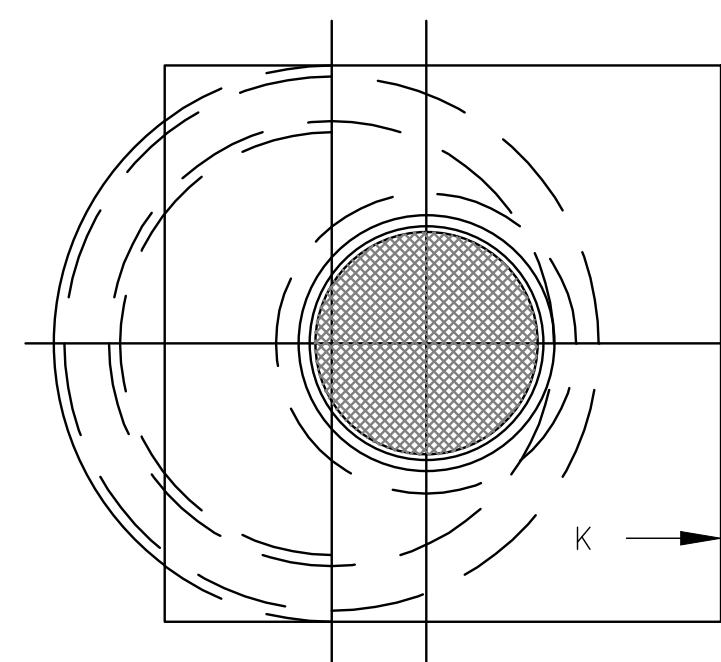
PLAN AT C-C



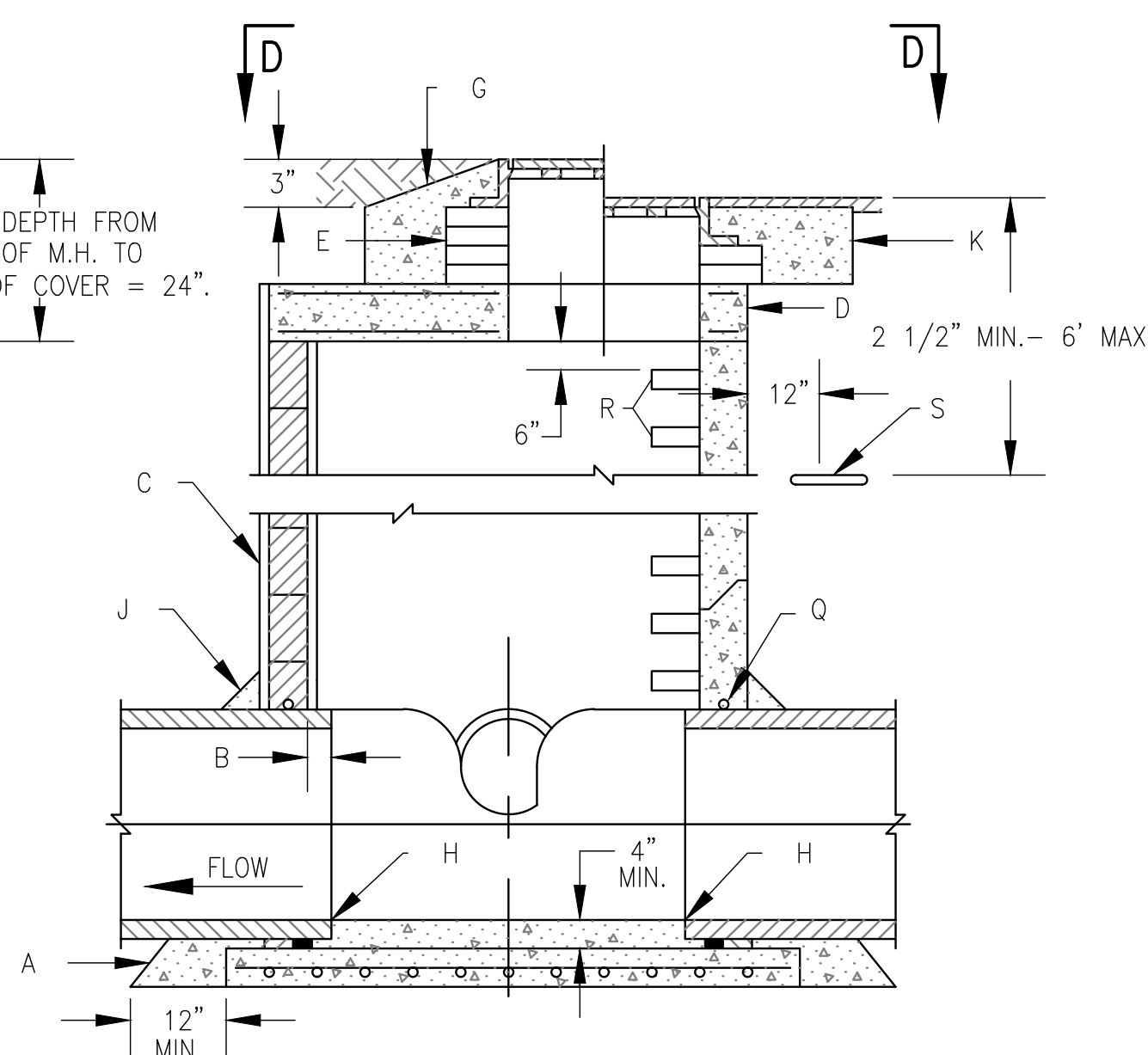
CROSS SECTION A-A



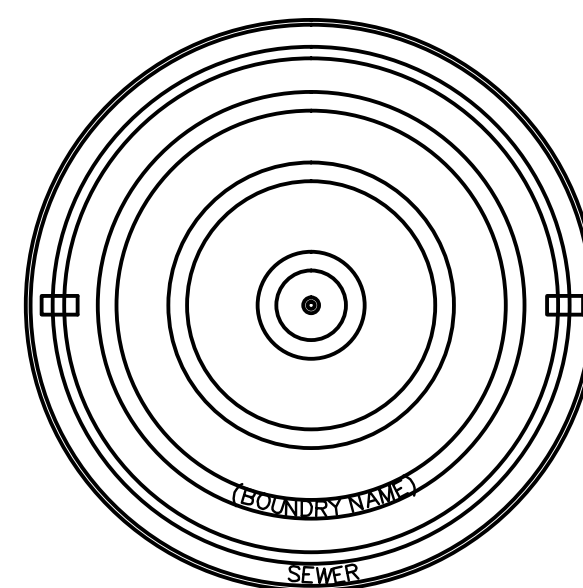
SECTION C-C
BOTTOM MAT



PLAN AT D-D



CROSS SECTION B-B



VENTED COVER FOR TYPE C M.H.

1. USE TYPE C M.H. FOR DEPTHS OF LESS THAN 6' MEASURED FROM INV. TO RIM.
2. CONTRACTOR HAS OPTION TO CONSTRUCT TYPE C M.H. IN LIEU OF TYPE E M.H. FOR DEPTHS OF 6' OR MORE.
3. DESIGN APPLIES TO 4' & 6' I.D. MANHOLES.
4. M.H. GREATER THAN 18' IN DEPTH SHALL ONLY BE CONSTRUCTION PRECAST CONCRETE SECTIONS.
5. USE NON-SHRINK GROUT FOR JOINTS, FILLETS AND PENETRATIONS.
6. COMPACT ALL BACKFILL AROUND MANHOLE TO 95%.
7. POSITION M.H. OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.

- A. CONCRETE PIPE SUPPORTS SHALL EXTEND OUTSIDE OF M.H. TO BELL OF FIRST JOINT & SHALL CRADLE PIPE TO SPRING LINE. NOT APPLICABLE FOR FLEXIBLE PIPE.
- B. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRINGLINE OF PIPE.
- C. MANHOLE MUST BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE.
- D. PRECAST CONCRETE COVER, SEE DWG. 2107.
- E. USE MAX. 4 COURSES GR. MS BRICK ON UNPAVED STREET FOR FUTURE ADJUSTMENT OF M.H. FRAME TO PAVEMENT GRADE. PLASTER INSIDE WITH 1/2" MORTAR.
- F. CONCRETE BASE TO BE POURED IN PLACE USING NO. 4 BARS AT 6" O.C. EA. WAY FOR M.H. DEPTH OF 16' OR GREATER. NO. 4 BARS AT 12" O.C. EA. WAY FOR M.H. LESS THAN 16' IN DEPTH.
- G. IN UNPAVED AREAS, SET FRAME TO GRADE AND SLOPE TOP OF PAD.
- H. INVERT ELEVATION OF STUB OR LATERAL AS SHOWN ON PLANS.
- J. 6" GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.
- K. USE A 5' X 5' CONCRETE PAD IN ALL AREAS.
- L. FRAME AND COVER, SEE DWG. 2110. M. CONCRETE FILL, 3000 PSI.
- N. SLOPE 1" PER FT. FROM PIPE CROWN.
- P. SHELf TO BE 9" WIDE MIN.
- Q. APPROVED WATERSTOP TO BE COMPATIBLE WITH TYPE OF PIPE.
- R. STEPS TO BE INSTALLED @ 16" O.C.
- S. EMD (IN UNPAVED AREAS).

TYPE "C" MANHOLE TO BE USED ON THIS PROJECT
SOLEY FOR EQUIPMENT AND APPURTENCES ACCESS;
NOT FOR CONVEYANCE OF SANITARY WASTE.

A. PRECAST REINF. CONC. MH COVER.
B. ALL BARS TO HAVE 1 1/2" MIN. COVER.
C. 1" PIPE SLEEVE VERTICAL THROUGH COVER. D. TOP MAT: NO. 4 BARS AT 6" O.C. EA. WAY FOR 4, FT. I.D. MH. E. NO. 4 BARS.
F. BOTTOM MAT: NO. 4 BARS 6" O.C. EA. WAY FOR 4 I.D. MH.
G. NO. 4 BARS FOR 4 FT. I.D. MH. BARS FOR 8 H. WHEN PRECAST M.H. SECTIONS ARE USED, COVER SHALL BE MODIFIED TO SHAPE OF APPROPRIATE SIZE T & G JOINT.

[illegible]

MANHOLE DETAILS
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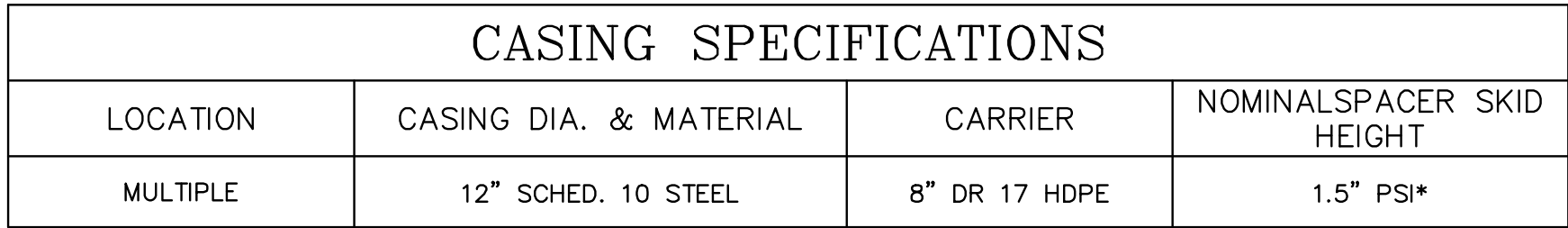
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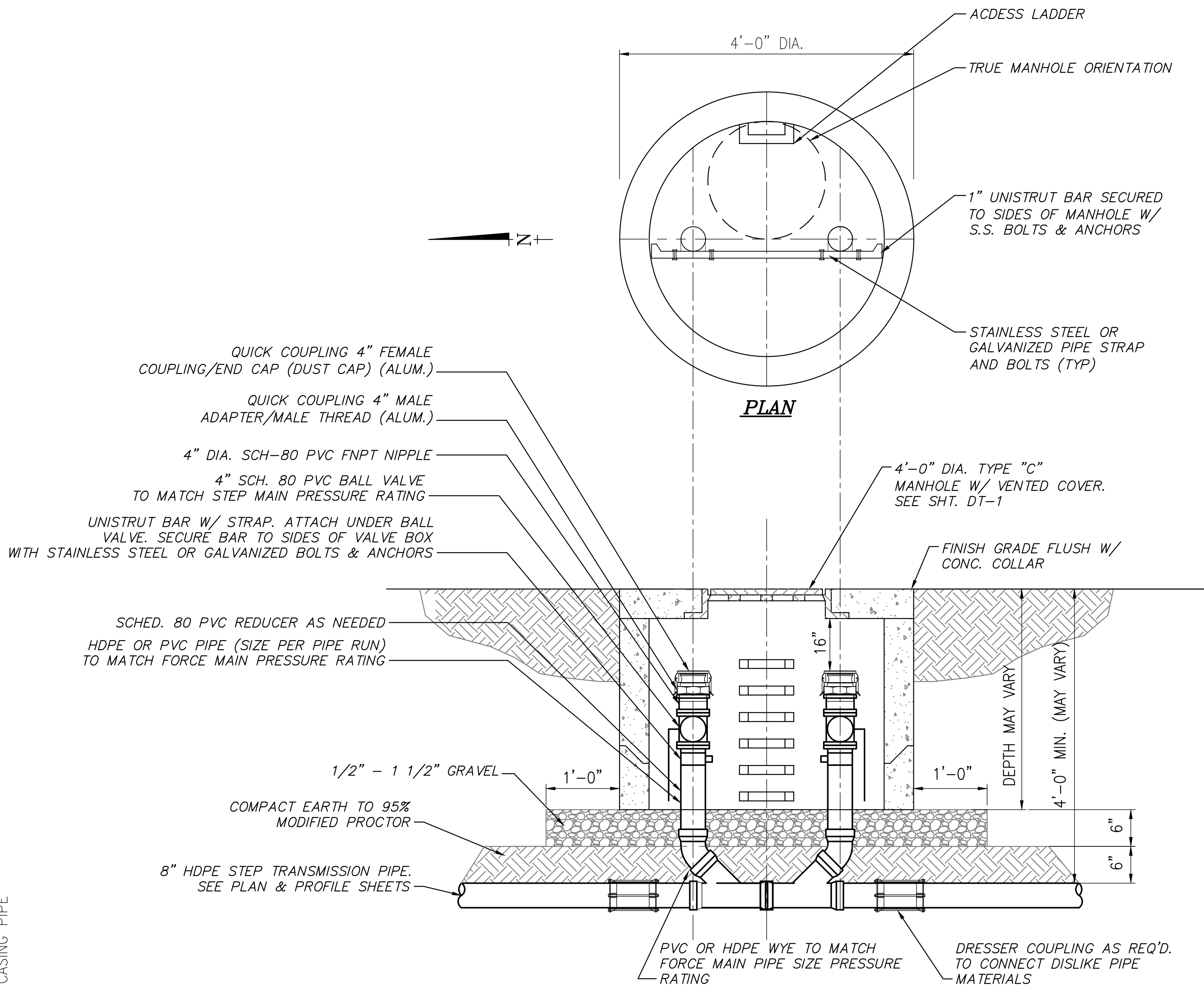
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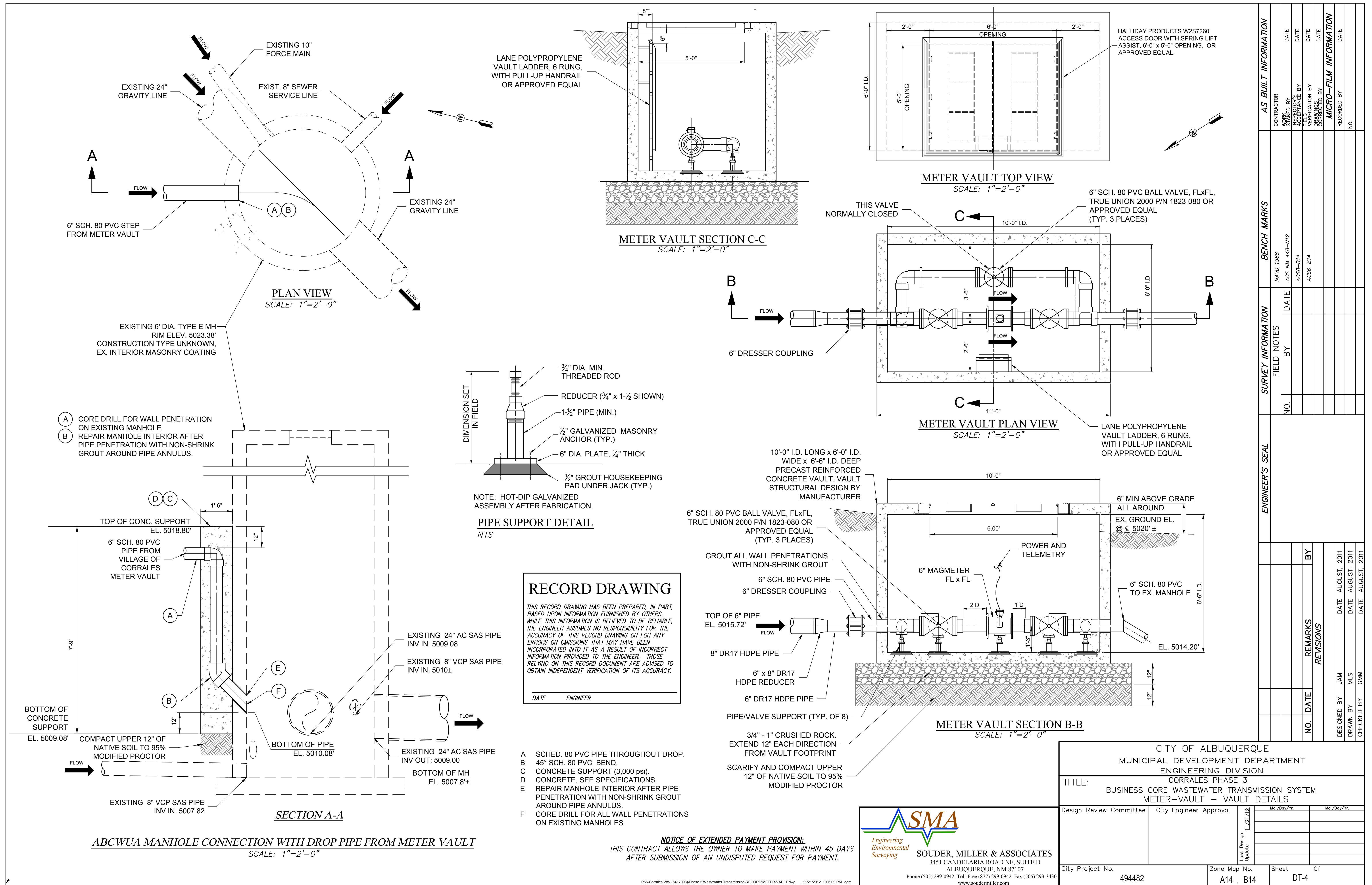
NOTE:
SIZE FITTINGS BY SIZE OF FORCE MAIN.

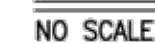
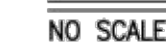


MISCELLANEOUS DETAILS
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