

PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM

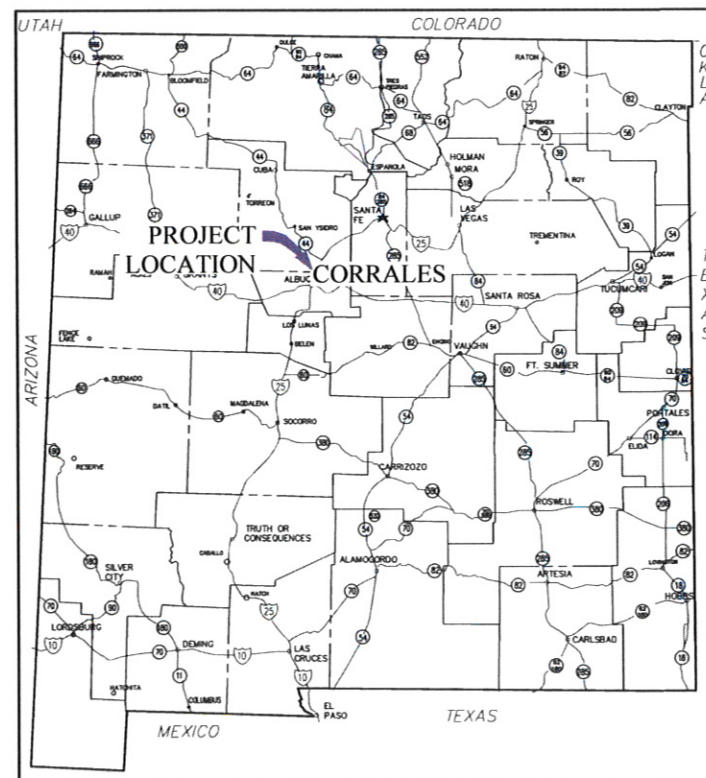
CORRALES, NEW MEXICO



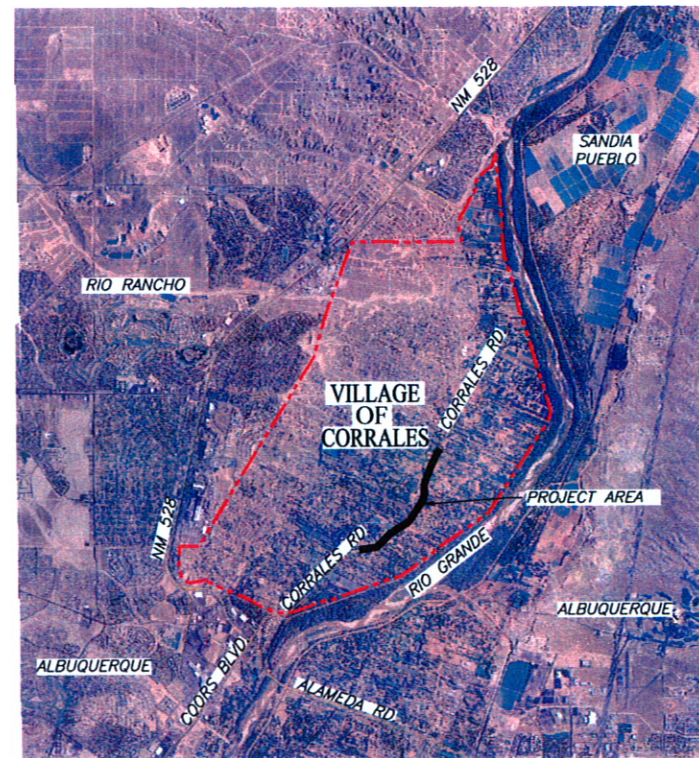
MAY 2009

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LOCATION MAP
NOT TO SCALE



PROJECT AREA MAP
SCALE: 1" = 5000'

RECORD DRAWING:
THE INFORMATION CONTAINED ON THIS DRAWING WAS
COMPILED, IN PART, FROM INFORMATION SUPPLIED BY
OTHERS. SOUDER, MILLER & ASSOCIATES TAKES NO
RESPONSIBILITY FOR INFORMATION SUPPLIED BY OTHERS
AND MAKES NO REPRESENTATION TO ITS ACCURACY.

June 1 May 08/16/10
DATE

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

P:\CORRALES\WV\847709\BUL\TNG\3 DESIGN CALCULATIONS\REC.DWG

REVISIONS		
BY	DATE	DESC

DATE: August 3, 2010
SCALE: AS SHOWN
DRAWN BY: MLS, SBH
CHECKED BY: LTH
APPROVED BY: JAM



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ALBUQUERQUE, NEW MEXICO 87107 TELE: 505-298-0942
Albuquerque - Las Cruces
Santa Fe, NM - Cortez, CO - Monticello, UT

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COVER SHEET & PROJECT MAP
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

This drawing is
incomplete and
not to be used
for construction
unless it is
stamped, signed
and dated

SHEET
G-1

GENERAL NOTES

1. 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.
2. SOUDER, MILLER AND ASSOCIATES SHALL HEREINAFTER BE KNOWN AS THE ENGINEER. THERE WILL BE A PERSON PROVIDED BY THE ENGINEER THAT WILL ACT AS A RESIDENT INSPECTOR WHO WILL BE THE CONTACT FOR QUESTIONS FROM THE CONTRACTOR TO THE ENGINEER.
3. 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.
4. 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.
5. 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.
6. 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 DUMPING IN THE VICINITY OF WATER COURSES IS STRICTLY PROHIBITED AND SHALL BE PERFORMED IN PROPER CONTAINMENT AREAS.
7. 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.
8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTING THE PROJECT ACCORDING TO CURRENT NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (NMSSPWC) AWWA SPECS, AND NMED SPECS AND REGULATIONS UNLESS OTHERWISE NOTED.
9. CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING BUILDING PERMITS, UTILITY BORE PERMITS AND ANY OTHER, WHICH HAVE NOT ALREADY BEEN OBTAINED BY THE ENGINEER.
10. 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.
11. 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.
12. 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.
13. 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.
14. THROUGHOUT THE LIFE OF THE PROJECT, THE CONTRACTOR SHALL KEEP ANY EXISTING SYSTEM OPERATING. THE CONTRACTOR SHALL REPORT ANY UTILITY SHUTOFFS 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.
15. 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.
16. CONTRACTOR SHALL CONFINE ALL CONSTRUCTION OPERATIONS TO THE LIMITS OF THE PROJECT DEFINED IN THESE DRAWINGS, AND IN NO WAY ENCRoACH 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.
17. THE CONTRACTOR SHALL TAKE ANY NECESSARY MEASURES TO PROTECT 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.

GENERAL NOTES

18. 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.
19. CONTRACTOR SHALL REPAIR ANY EXISTING STRUCTURE OR UTILITY CONDUIT DAMAGED DURING THE EXECUTION OF THE PROJECT, AT NO ADDITIONAL COSTS TO THE OWNER.
20. 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.
21. 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.
22. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR EROSION CONTROL INCIDENTAL TO THE CONSTRUCTION ACTIVITIES. IN THE EVENT THAT 1 ACRE OF EARTH OR MORE ARE DISTURBED, THE CONTRACTOR SHALL SUBMIT TO THE OWNER'S PROJECT REPRESENTATIVE A STORM WATER POLLUTION PREVENTION PLAN THAT 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.
23. 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.
24. 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 SHALL BE ALLOWED TO REVIEW THESE DRAWINGS AT ANY TIME DURING CONSTRUCTION. PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER COMPLETE AS-BUILT DRAWINGS.
25. THE CONTRACTOR WILL UPDATE "AS-BUILT DRAWINGS" FOR THE PROJECT AND DELIVER TWO (2) SETS OF THESE DRAWINGS WITH REDLINES TO THE ENGINEER UPON COMPLETION OF THE CONSTRUCTION.
26. 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.
27. 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.
28. ALL INSTALLED UTILITY MAINS, 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.
29. ALL INSTALLED OR OPENED WATERLINES & MATERIALS SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
30. 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.
31. 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.
32. 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.
33. 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.
34. ALL AREAS DISTURBED BY THE CONSTRUCTION ACTIVITIES OF THIS PROJECT SHALL BE RESTORED, RE-GRADED IN A MANNER ACCEPTABLE TO THE OWNER AND ENGINEER.
35. EXCESS MATERIAL, IF APPLICABLE, SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.
36. 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 SITE FOR NON-USABLE MATERIALS (E.G. BRUSH, CONCRETE), ACCORDING TO THE NMED. WASTE PAYEMENT AND CONCRETE ARE NOT CONSIDERED REGULATED WASTE AND CAN BE DISPOSED OF FOR USE AS FILL OR EROSION CONTROL IF A SITE CAN BE LOCATED. ALL OTHER WASTE (E.G. TRASH, BRUSH, ETC.) SHALL BE DISPOSED OF AT AN APPROVED LANDFILL. ALL DISPOSAL SITES MUST BE APPROVED BY THE PROJECT MANAGER AND OWNER PRIOR TO DISPOSAL OF ANY WASTE.

ABBREVIATIONS

AWWA	AMERICAN WATER WORKS ASSOCIATION
C or CL	CENTERLINE
CI	CAST IRON
CO	CLEANOUT
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	MILLIAMP (ONE THOUSANDTH OF AN AMP)
MIN.	MINIMUM
M.J.	MECHANICAL JOINT
M.H.	MANHOLE
N.O.A.A.	NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION
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

LEGEND

	EXISTING FENCE (WIRE, WOOD, ETC.)
	EXISTING CHAIN LINK FENCE
	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 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 2" HDPE PIPE
	NEW 3" HDPE PIPE (LATERALS)
	NEW 6" STEP LINE
	NEW HDPE CAP & STUB
	NEW BALL VALVE
	NEW AIR RELEASE VALVE
	NEW SEWER CLEANOUT
	SINGLE 11" SINGLE SERVICE LINE, DIAMETER IN INCHES AS INDICATED
	DOUBLE 11" SINGLE SERVICE LINE, DIAMETER IN INCHES AS INDICATED
	PAVED ROAD

PROJECT SPECIFIC NOTES

1. THE 6" STEP COLLECTION MAIN SHALL BE INSTALLED BY DIRECTIONAL DRILLING IN 500 FOOT MAXIMUM SEGMENTS. 6" HDPE "ROLL" PIPE SHALL BE USED.
2. THE 2" AND 3" COLLECTION 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 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.
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.

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P:\6 CORRALES HW\84709\BUDGETING\AS-BUILT\FIG-3 DESIGN CALCULATIONS-REC.DWG

REVISIONS		
BY	DATE	DESC

DATE: August 3, 2010	DRAWN BY: MLS, SBH
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SCALE: AS SHOWN	APPROVED BY: JAM

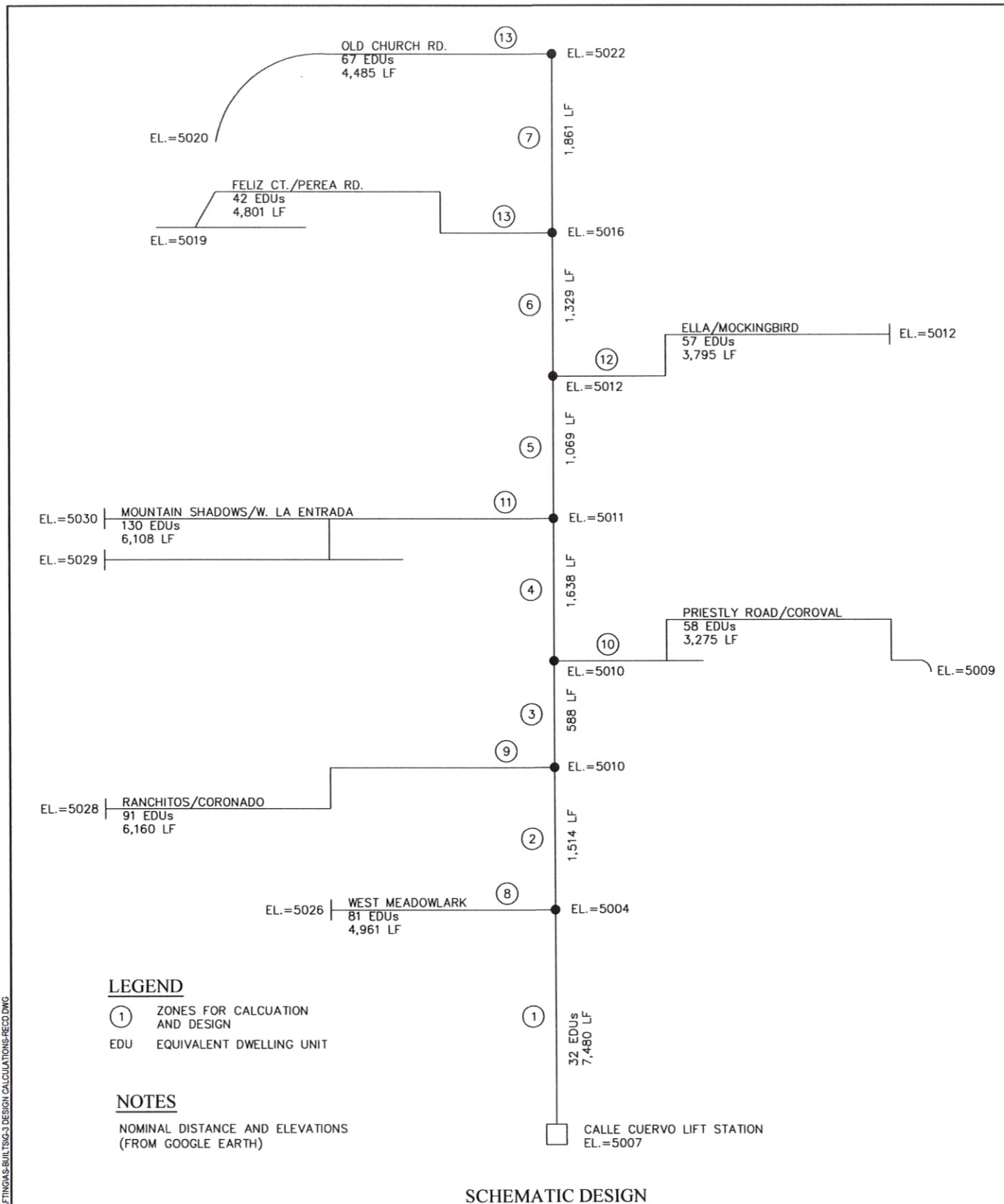


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	G-2



DESIGN CALCULATIONS

STEP SEWER COLLECTION MAIN and LATERAL DESIGN

Business Core WW Collection - Phases 1 & 2
Village of Corrales, NM
3/17/2009 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 (ft/s)
1	Calle de Cuervo - Meadowlark Lane	32	950	16	478	7,480	8.625	7.549	5007	5004	0.04%	19	47	3.43
2	Meadowlark Lane - Coronado	44	918	22	462	1,719	8.625	5.799	5004	5010	-0.35%	15	28	5.61
3	Coronado - Cordoval	6	880	3	354	588	8.625	5.799	5010	5010	0.00%	3	13	4.30
4	Cordoval - W. La Entrada	85	874	43	322	1,638	8.625	5.799	5010	5011	-0.06%	9	10	3.91
5	W. La Entrada - Ella/Mockingbird	58	789	29	214	1,069	8.625	5.799	5011	5012	-0.09%	3	1	2.60
6	Ella / Mockingbird - Perea	153	730	76	157	1,329	8.625	5.799	5012	5016	-0.30%	0	-2	1.90
7	Perea-Old Church	52	578	26	59	1,861	8.625	5.799	5016	5022	-0.32%	-2	-2	0.72
8	W. Meadowlark	81	526	41	41	4,961	3.500	3.064	5004	5026	-0.44%	3		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	5009	5007	0.06%	28		2.74
11	Mt. Shawdows / W. La Entrada	130	296	65	65	6,108	3.500	3.064	5008	5030	-0.36%	29		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	5020	5022	-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

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

NMED WW Discharge Permits					Peak (3)	
	gpd	gph	gpm			
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
Zone		200	600	varies	4,000		
Zone No.	Description						
1	Meadowlark Lane to Calle de Cuervo	20	4			6,400	32
2	Meadowlark Lane to Coronado	4,000	2,400		1	8,800	44
3	Coronado to Cordoval	9	5		4,000	1,200	6
4	Coroval to W. La Entrada	1,800	3,000			17,000	85
5	W. La Entrada to Ella (Mockingbird)	6	8	2	2	11,680	58
6	Ella (Mockingbird) to Perea	1,200	1,600	6,200	8,000	30,500	153
7	Perea to Old Church	10	6	1	1	10,350	52
8	W. Meadowlark	2,000	3,600	2,080	4,000	16,200	81
9	Ranchitos/Coronado	6	4	1	4	18,200	91
10	Priestly/Coroval	13	5	750	4,000	11,600	58
11	Mt. Shawdows/W. La Entrada	81				26,000	130
12	Ella / Mockingbird	16,200				11,400	57
13	Felice / Perea	91				8,400	42
14	Old Church Rd to Mama Rd	11,600				13,400	67
		58					
		11,600					
		130					
		26,000					
		57					
		11,400					
		42					
		8,400					
		67					
		13,400					
						13,400	67
						Total EDUs	956
						Total gpd	191,130

LEGEND
① ZONES FOR CALCULATION AND DESIGN
EDU EQUIVALENT DWELLING UNIT

NOTES
NOMINAL DISTANCE AND ELEVATIONS (FROM GOOGLE EARTH)

SCHEMATIC DESIGN

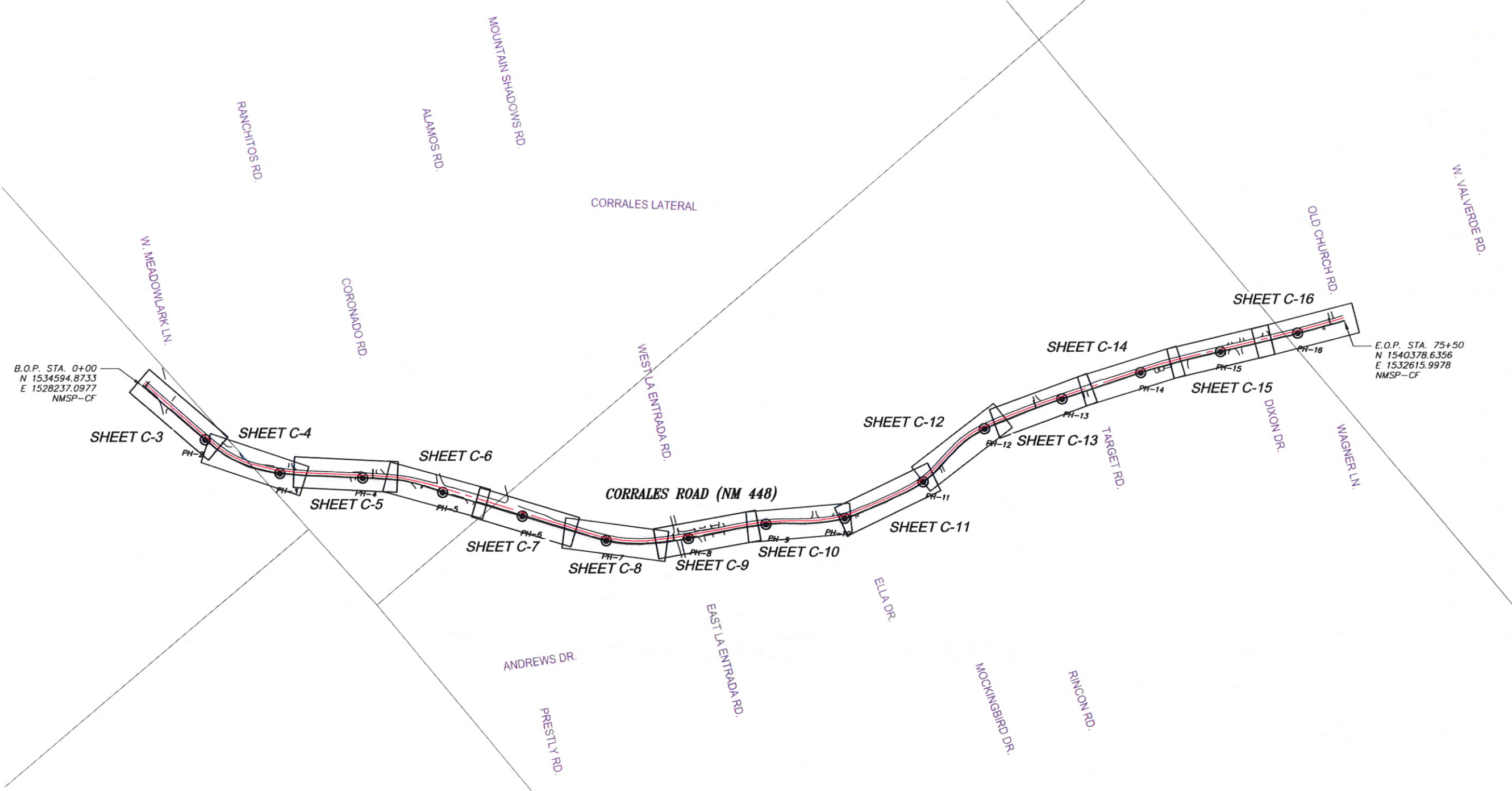
REVISIONS		
BY	DATE	DESC

DATE: August 3, 2010
SCALE: AS SHOWN
DRAWN BY: SEH
CHECKED BY: LTH
APPROVED BY: JAM

SMAS
Soudier, Miller & Associates, 3451 Candelaria Rd.,
Albuquerque, New Mexico 87107
Sante Fe, NM - Cortez, CO - Monticello, UT

DESIGN CALCULATIONS
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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SHEET
G-3



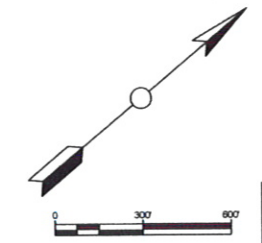
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E 1528237.0977
NMSP-CF

E.O.P. STA. 75+50
N 1540378.6356
E 1532615.9978
NMSP-CF

LEGEND

UTILITY POTHOLE INVESTIGATION,
MARCH 2009. SEE CONTRACT
DOCUMENTS.

KEY MAP



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

P:\CORRALES\WW\8417098\DRAWINGS\BUILT\SC-1 KEY MAPS\REC.DWG

REVISIONS		
BY	DATE	DESC

DATE: August 3, 2010
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DRAWN BY: SBH
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APPROVED BY: JAM

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ALBUQUERQUE, NEW MEXICO 87107 TELE: 505-299-0942
Albuquerque - Las Cruces -
Santa Fe, NM - Cortez, CO - Monticello, UT

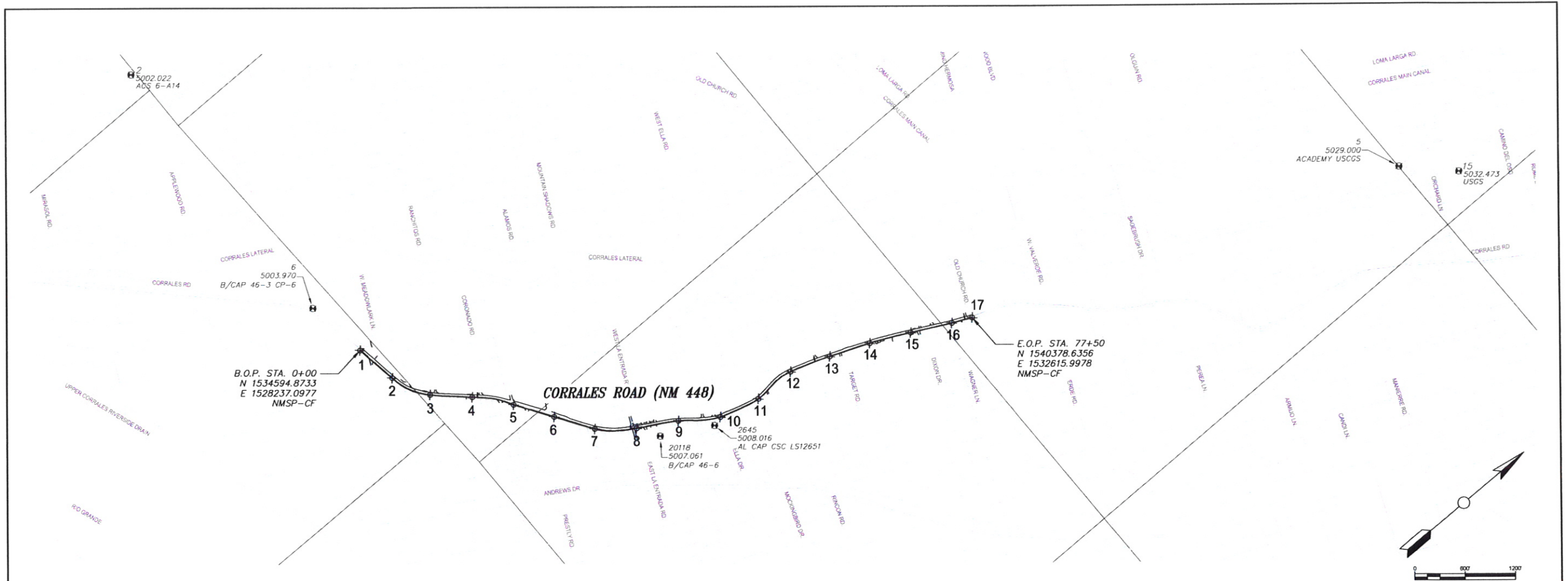
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KEY MAP
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION
SYSTEM CORRALES, NEW MEXICO

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SHEET
C-1

P:\M-CORRALES\WW (8417096)\DRAFTING\AS-BUILD\TSC1 KEY MAPS-RECD.DWG



Additional Survey Points: Corrales

Point	Northing	Easting	Elevation	Description
5	1545373.9200	1534536.6000	5029.0000	ACADEMY USCGS
6	1534486.8740	1527499.0360	5003.9700	B/CAP 46-3 CP-6
15	1545868.4240	1535028.1690	5032.4730	USGS
2645	1537227.7700	1531615.3980	5008.0160	AL CAP CSC LS12651
20118	1536656.9600	1531296.6830	5007.0606	B/CAP 46-6

Survey Control Points: Corrales

NM State Plane Coordinates, Central Zone, NAD 83
Combined Ground-To-Grid Factor: 0.9996799
Elevations - NAVD 1988

Designation	Northing	Easting	Elevation	Location
ACS 6-A14	1,534,611.07	1,524,030.52	5002.022	S. side Applewood Rd., .5 mile W. of Corrales Rd.
ACS 7-A14				ELEVATION ONLY
ACS 8-B14	1,528,602.96	1,521,096.79	5025.358	SW quadrant of Coors Rd. & Old Airport Av. NW.

STEP COLLECTION MAIN LAYOUT SURVEY CONTROL

Station	Northing	Easting	Point Elevation	Full Description	Longitude	Latitude
1	0+00	1534594.8733	1528237.0977	5003.80	HZ CONTROL	W106° 37' 32.11" N35° 13' 02.32"
2	5+00	1534676.9055	1528730.2944	5004.24	HZ CONTROL	W106° 37' 26.17" N35° 13' 03.15"
3	10+00	1534890.4183	1529171.9254	5007.40	HZ CONTROL	W106° 37' 20.86" N35° 13' 05.28"
4	15+00	1535254.3397	1529514.6233	5006.47	HZ CONTROL	W106° 37' 16.74" N35° 13' 08.89"
5	20+00	1535570.2790	1529897.5276	5007.00	HZ CONTROL	W106° 37' 12.14" N35° 13' 12.03"
6	25+00	1535844.4838	1530315.6065	5006.64	HZ CONTROL	W106° 37' 07.12" N35° 13' 14.76"
7	30+00	1536120.4819	1530732.4611	5008.00	HZ CONTROL	W106° 37' 02.10" N35° 13' 17.50"
8	35+00	1536503.1370	1531047.6511	5007.60	HZ CONTROL	W106° 36' 58.32" N35° 13' 21.30"
9	40+00	1536935.6391	1531298.0770	5010.08	HZ CONTROL	W106° 36' 55.32" N35° 13' 25.58"
10	45+00	1537343.2607	1531584.3361	5010.85	HZ CONTROL	W106° 36' 51.89" N35° 13' 29.63"
11	50+00	1537825.5007	1531711.4543	5017.05	HZ CONTROL	W106° 36' 50.38" N35° 13' 34.40"
12	55+00	1538321.6552	1531712.7570	5016.62	HZ CONTROL	W106° 36' 51.89" N35° 13' 29.63"
13	60+00	1538793.4438	1531877.6669	5015.73	HZ CONTROL	W106° 36' 50.39" N35° 13' 39.31"
14	65+00	1539256.7722	1532065.5836	5016.71	HZ CONTROL	W106° 36' 48.42" N35° 13' 43.98"
15	70+00	1539707.0001	1532282.7504	5016.94	HZ CONTROL	W106° 36' 46.17" N35° 13' 48.57"
16	75+00	1540152.4379	1532509.6289	5018.71	HZ CONTROL	W106° 36' 43.58" N35° 13' 53.03"
17	77+50	1540378.6356	1532615.9978	5018.15	HZ CONTROL	W106° 36' 40.86" N35° 13' 57.45"

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.

NOTICE OF
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REVISIONS		
BY	DATE	DESC

DATE: August 3, 2010
SCALE: AS SHOWN
DRAWN BY: SBH
CHECKED BY: ACT
APPROVED BY: JAM



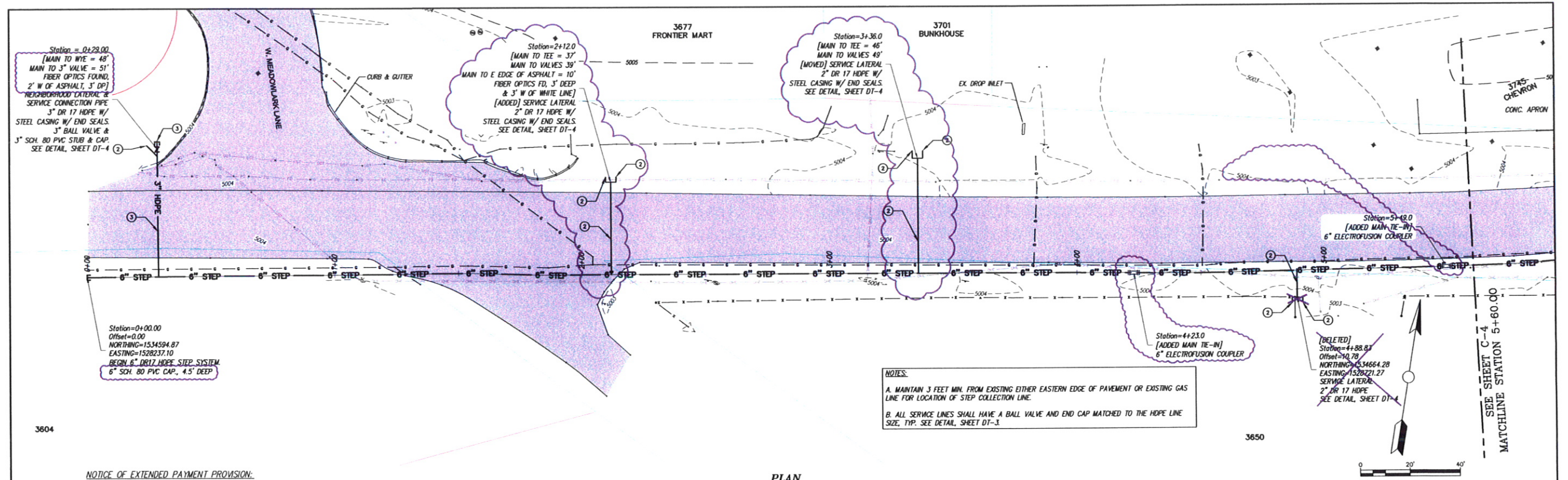
SOUDER, MILLER & ASSOCIATES, 3451 CANDELARIA RD.,
ALBUQUERQUE, NEW MEXICO 87107 TEL: 505-299-0942
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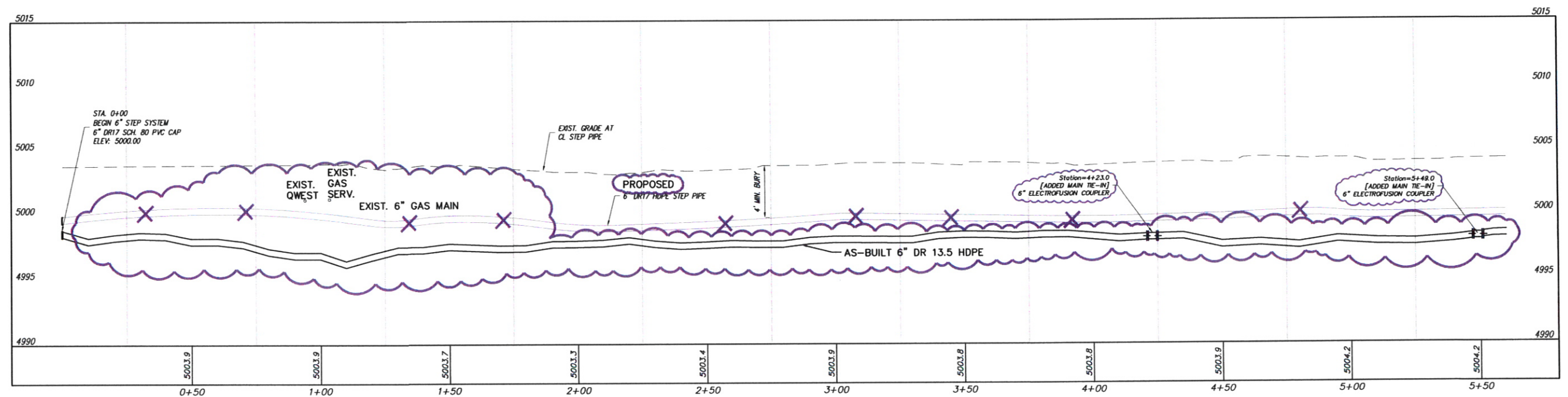
SURVEY CONTROL POINTS
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

This drawing is
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C-2



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STEP SYSTEM PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'

REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: 8/3/2010
SCALE: AS SHOWN
DRAWN BY: SBH
CHECKED BY: LTH
APPROVED BY: JAM



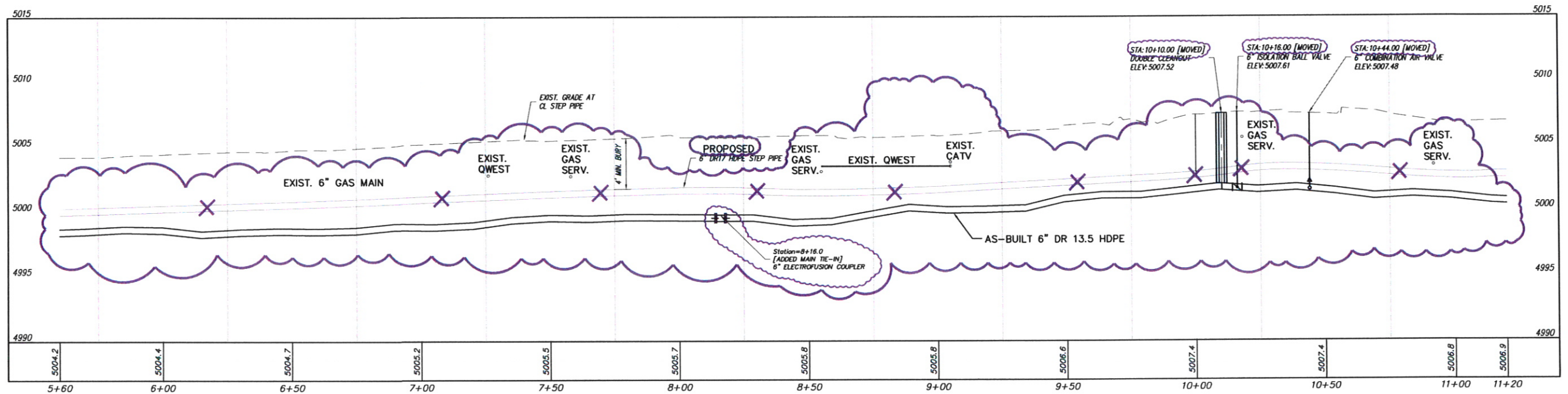
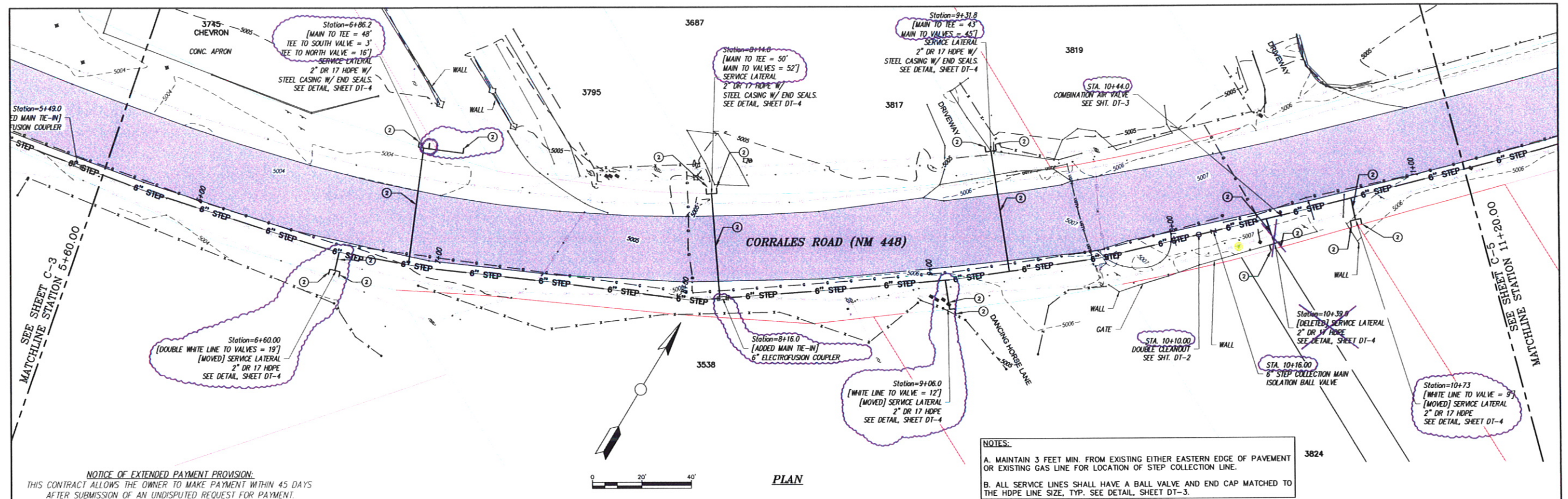
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STEP SYSTEM PLAN & PROFILE STA. 0+00 TO STA. 5+60
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

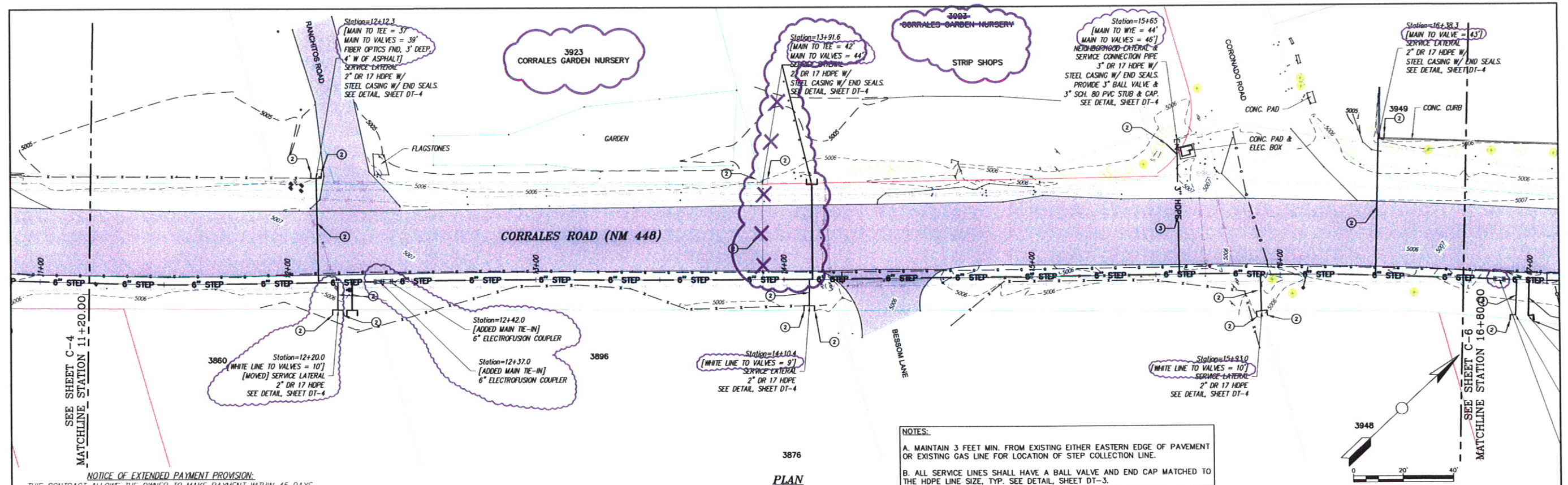
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C-3



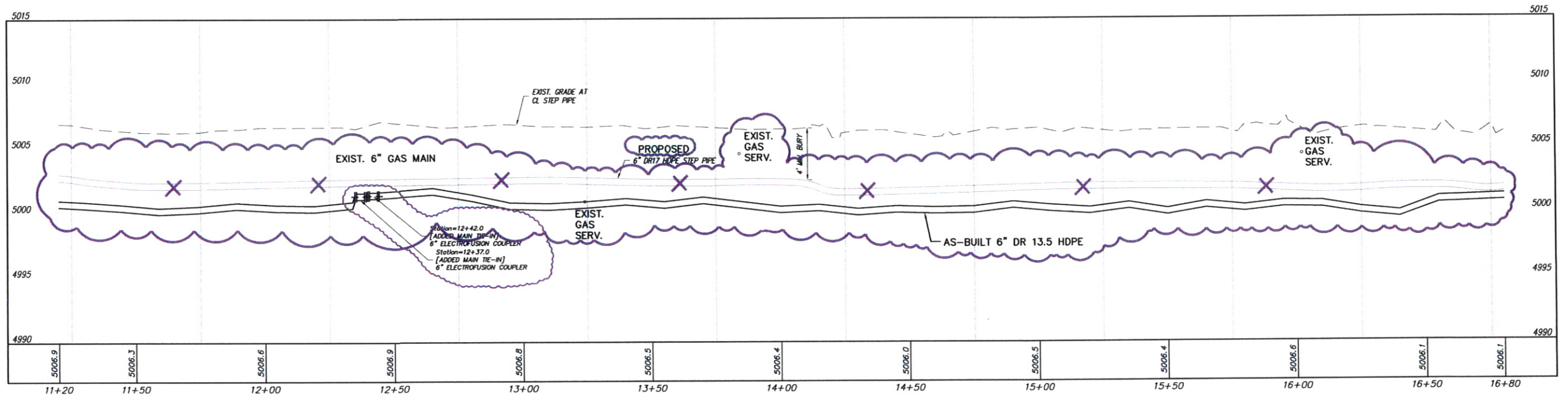
P:\CORRALES.WW (8417098)\DRAFTING\AS-BUILT\BSC-4 STA. 5+60 TO STA. 11+20-REC'D.DWG

REVISIONS			DATE: 8/3/2010	DRAWN BY: SEH	SMA	SOUDEY, MILLER & ASSOCIATES, 3451 CANDELARIA RD., ALBUQUERQUE, NEW MEXICO 87107 TELE: 505-299-0942 Albuquerque - Las Cruces - Santa Fe, NM - Cortez, CO - Monticello, UT	STEP SYSTEM PLAN & PROFILE STA. 5+60 TO STA. 11+20 PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM CORRALES, NEW MEXICO	This drawing is incomplete and not to be used for construction unless it is stamped, signed and dated	SHEET C-4
BY	DATE	DESC							
SMA-MS	3-8-10	AS-BUILT SSW BORE PATH	SCALE: AS SHOWN	CHECKED BY: LTH	<small>NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.</small>				
				APPROVED BY: JAM					



NOTICE OF EXTENDED PAYMENT PROVISION:
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NOTES:
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OR EXISTING GAS LINE FOR LOCATION OF STEP COLLECTION LINE.
B. ALL SERVICE LINES SHALL HAVE A BALL VALVE AND END CAP MATCHED TO
THE HDPE LINE SIZE, TYP. SEE DETAIL, SHEET DT-3.

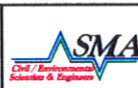


STEP SYSTEM PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'

REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: 8/3/2010	DRAWN BY: SBH
CHECKED BY: LTH	
SCALE: AS SHOWN	APPROVED BY: JAM



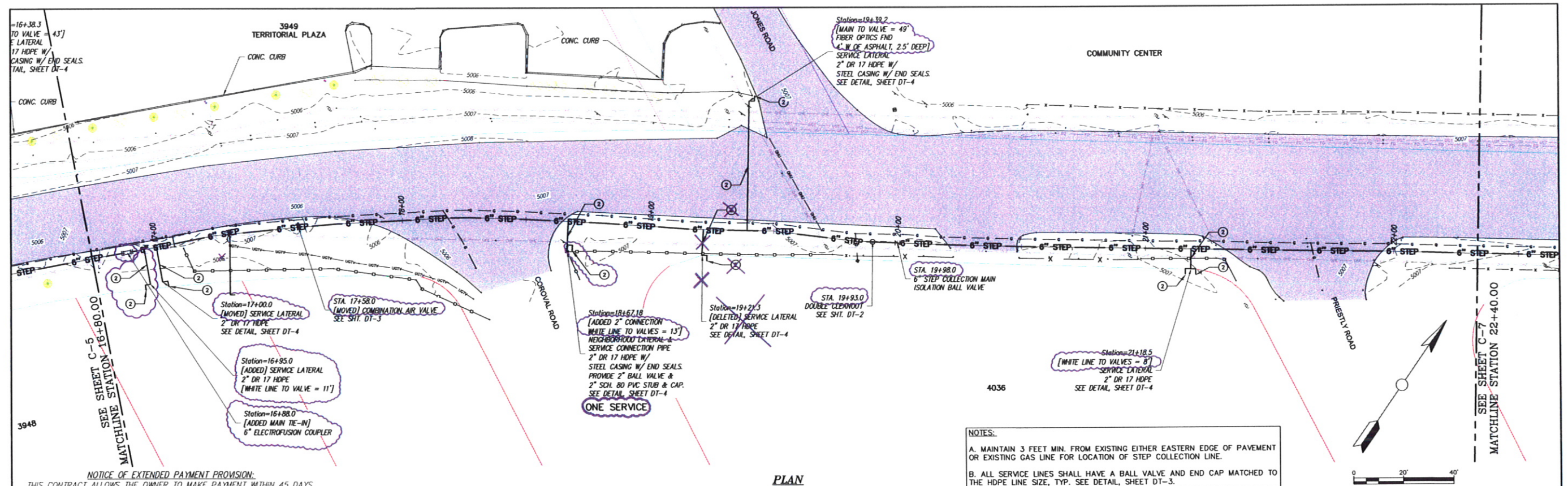
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Albuquerque - Las Cruces -
Santa Fe, NM - Cortez, CO - Monticello, UT

NOTICE OF
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STEP SYSTEM PLAN & PROFILE STA. 11+20 TO STA. 16+80
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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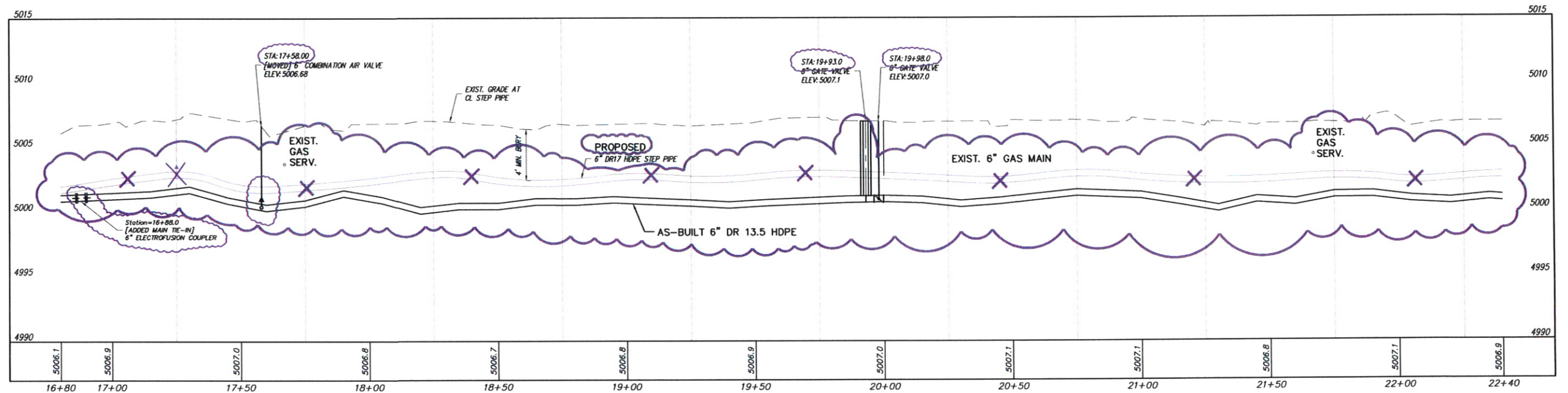
SHEET
C-5



NOTICE OF EXTENDED PAYMENT PROVISION:
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PLAN

- NOTES:
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 - ALL SERVICE LINES SHALL HAVE A BALL VALVE AND END CAP MATCHED TO THE HDPE LINE SIZE, TYP. SEE DETAIL, SHEET DT-3.



STEP SYSTEM PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'

REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: 8/3/2010 DRAWN BY: SBH
CHECKED BY: LTH
SCALE: AS SHOWN APPROVED BY: JAM



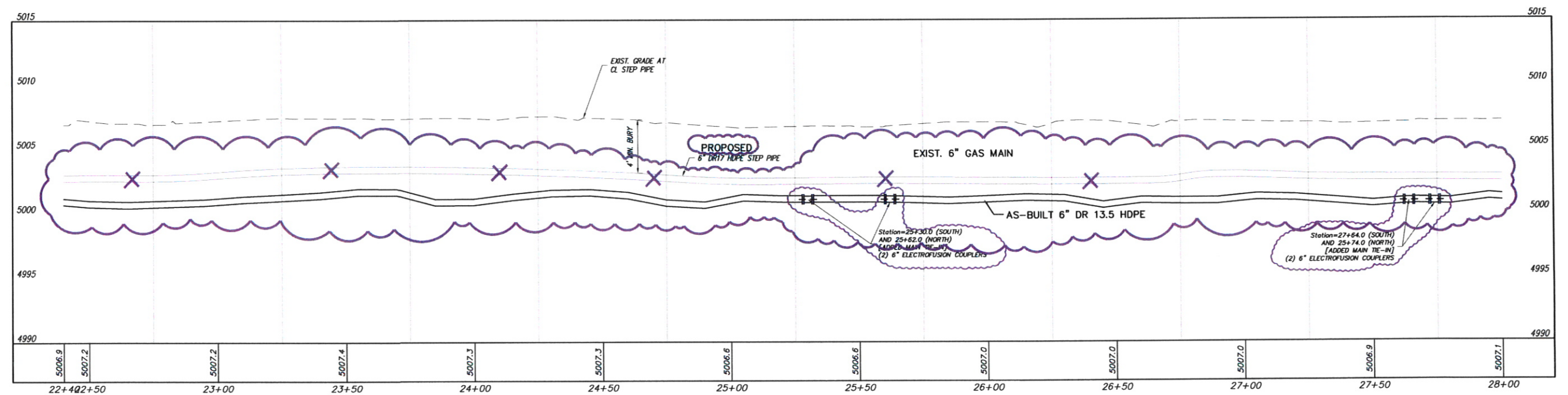
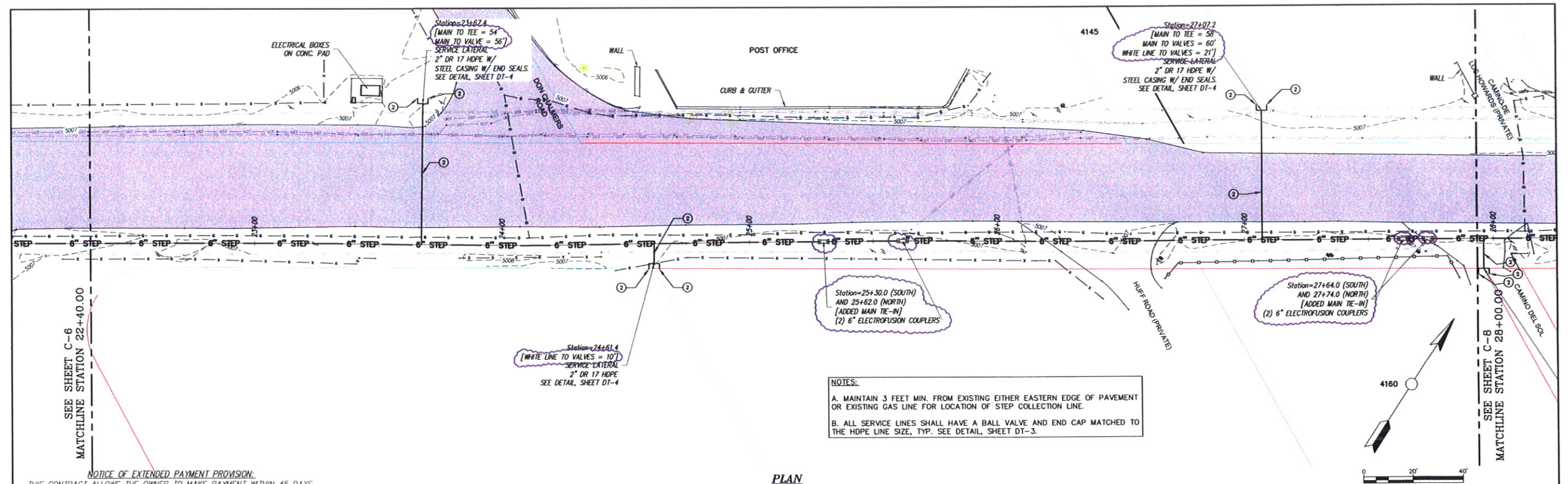
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STEP SYSTEM PLAN & PROFILE STA. 16+80 TO STA. 22+40
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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C-6



P:\6-CORRALES\WW\1641709\BUL\BUL1641709-7 STA. 22+00 TO STA. 28+00-REC.DWG

REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: 8/3/2010
SCALE: AS SHOWN

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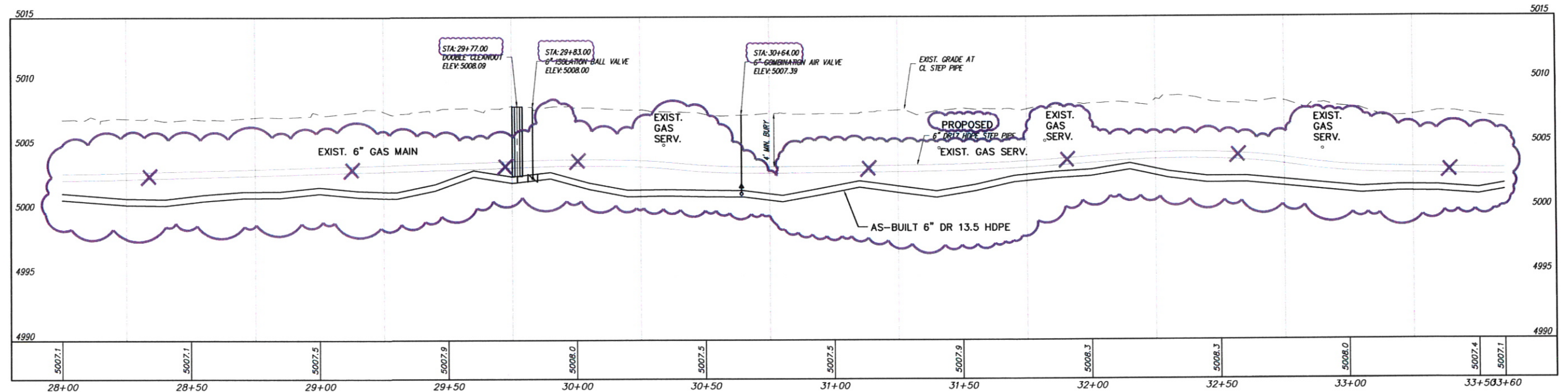
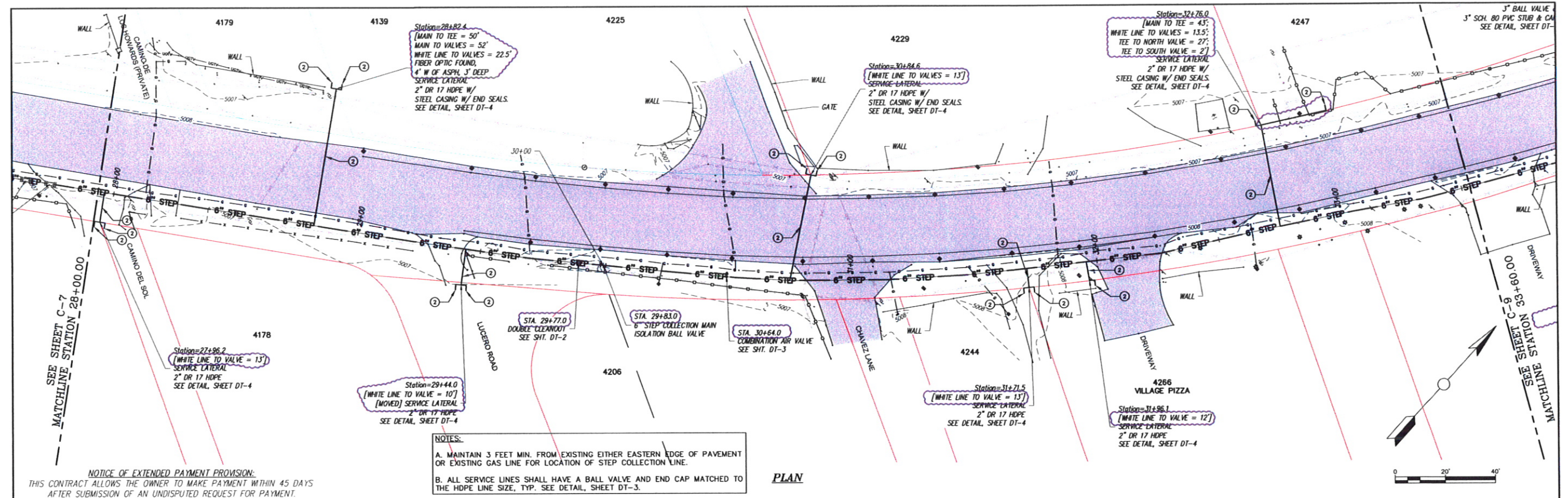
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STEP SYSTEM PLAN & PROFILE STA. 22+00 TO STA. 28+00
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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P:\B\CORRALES\WV\B41709\UDRAFTING\GAS BUILDING STA. 28+00 TO STA. 33+60.DWG

REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: 8/3/2010
SCALE: AS SHOWN
DRAWN BY: SBH
CHECKED BY: LTH
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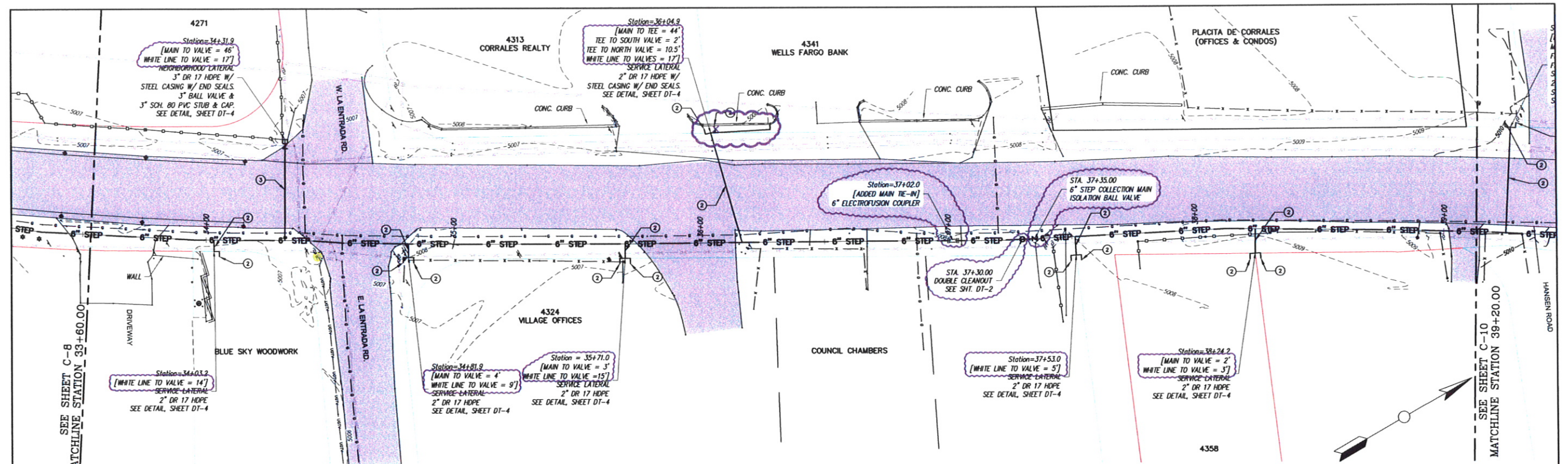
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Albuquerque - Las Cruces
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**STEP SYSTEM PLAN & PROFILE STA. 28+00 TO STA. 33+60
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO**

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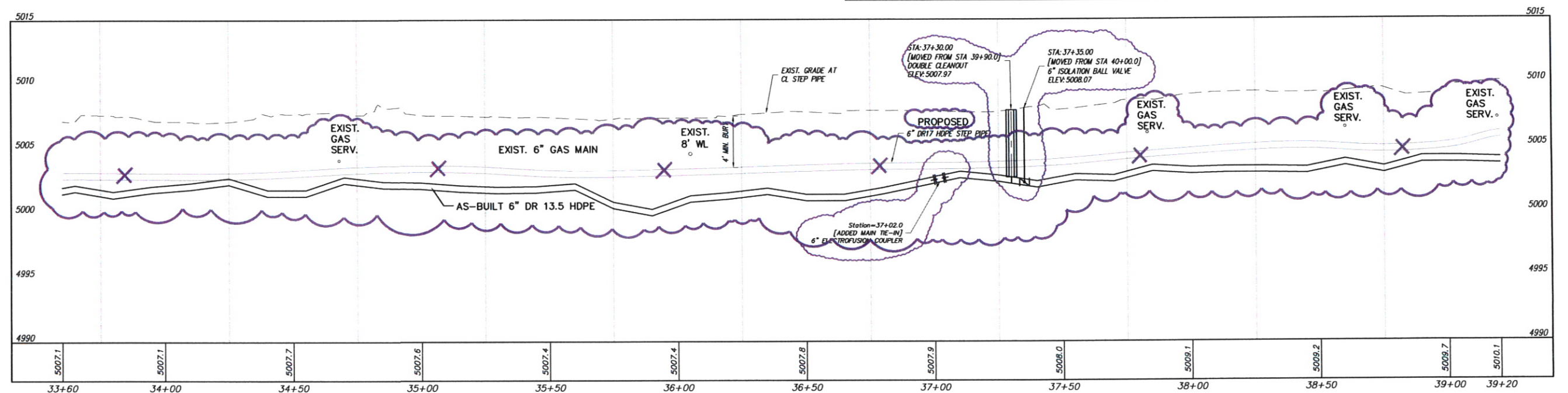
**SHEET
C-8**



NOTICE OF EXTENDED PAYMENT PROVISION:
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PLAN

NOTES:
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B. ALL SERVICE LINES SHALL HAVE A BALL VALVE AND END CAP MATCHED TO THE HDPE LINE SIZE, TYP. SEE DETAIL, SHEET DT-3.



STEP SYSTEM PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'

REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: 8/3/2010
SCALE: AS SHOWN
DRAWN BY: SBH
CHECKED BY: LTH
APPROVED BY: JAM



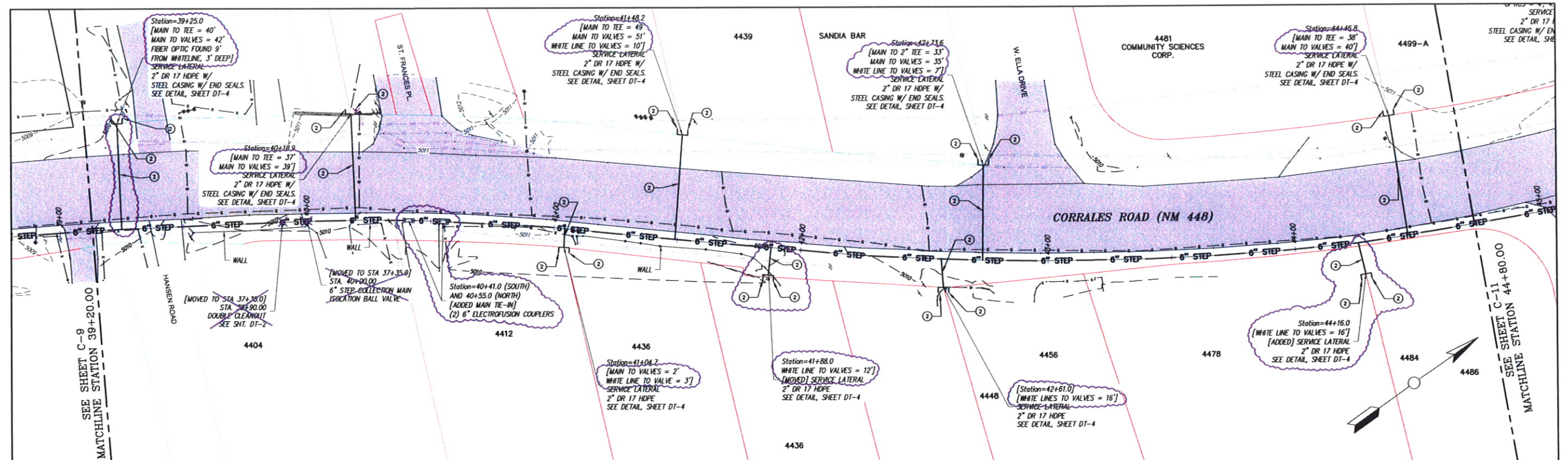
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STEP SYSTEM PLAN & PROFILE STA. 33+60 TO STA. 39+20
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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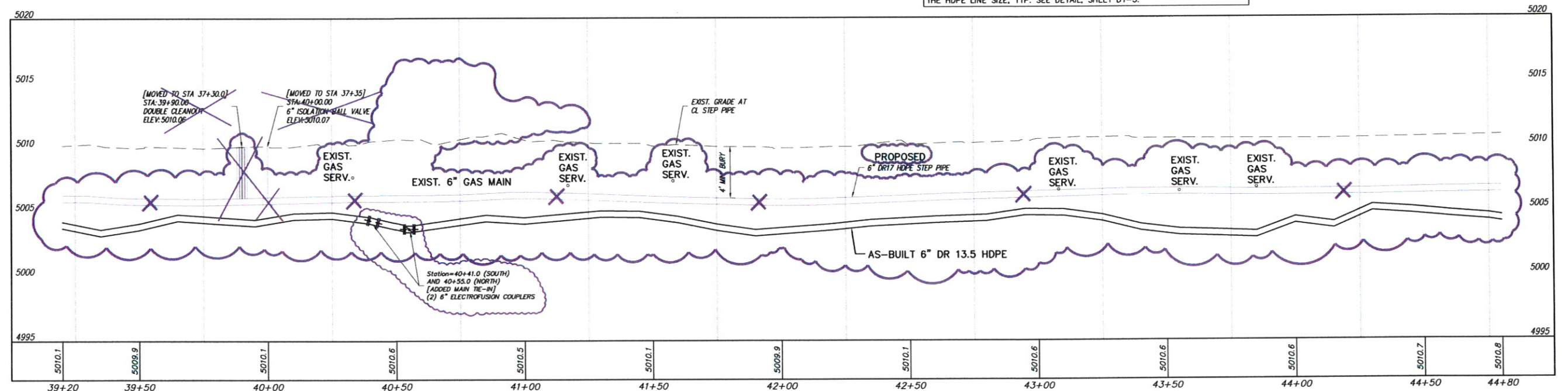
SHEET
C-9



NOTICE OF EXTENDED PAYMENT PROVISION:
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PLAN

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STEP SYSTEM PROFILE

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REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: August 3, 2010
SCALE: AS SHOWN
DRAWN BY: SBH
CHECKED BY: LTH
APPROVED BY: JAM

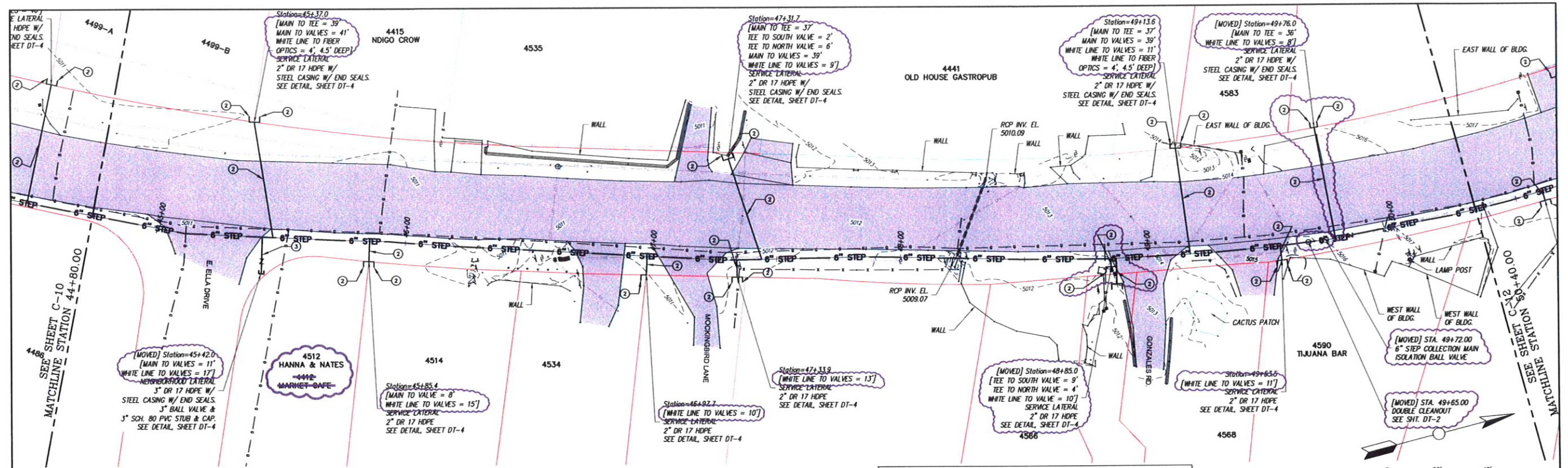


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Santa Fe, NM - Cortez, CO - Monticello, UT

STEP SYSTEM PLAN & PROFILE STA. 39+20 TO STA. 44+80
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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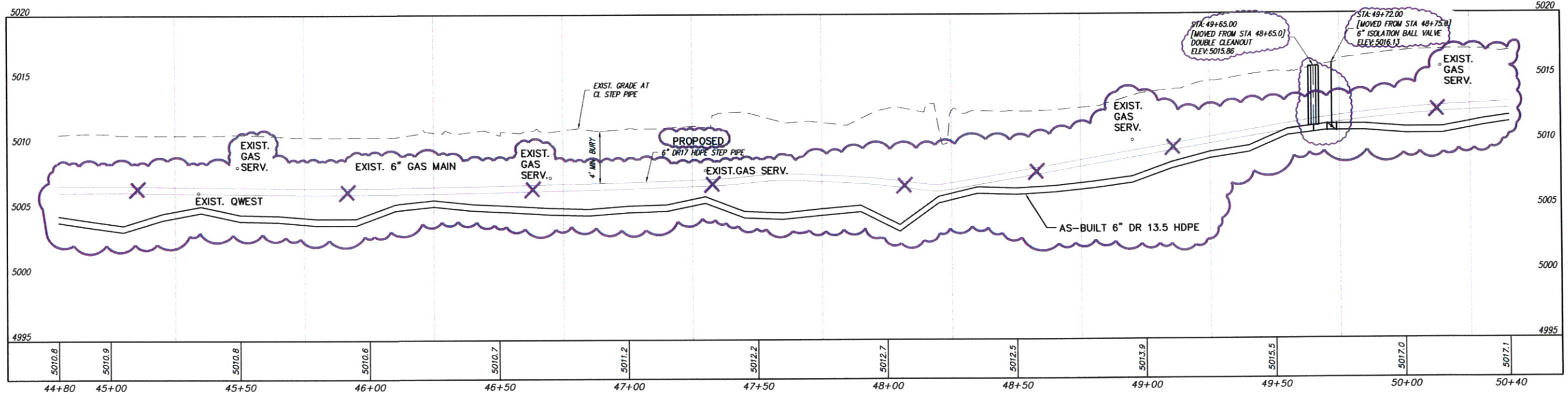
SHEET
C-10



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BY	DATE	DESC
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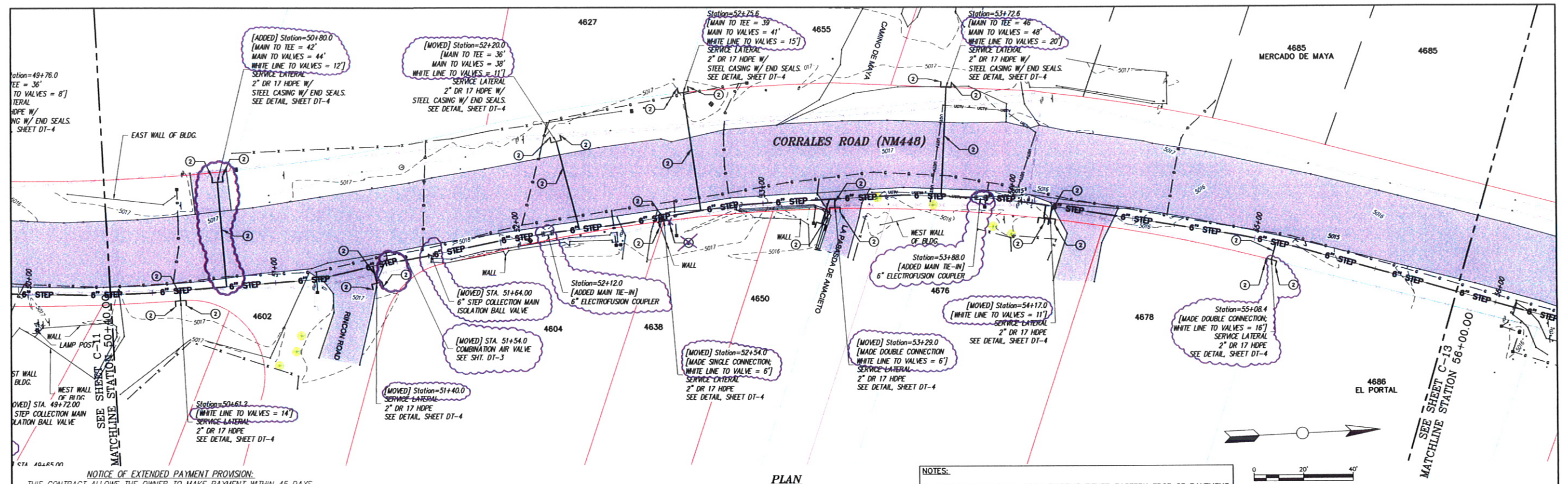
ASMA
SOUTHER, MILLER & ASSOCIATES, 3451 CANDELARIA RD.,
ALBUQUERQUE, NEW MEXICO 87107 TEL: 505-298-0842
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UNDISPUTED REQUEST FOR
PAYMENT.

STEP SYSTEM PLAN & PROFILE STA. 44+80 TO STA. 50+40
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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SHEET
C-11

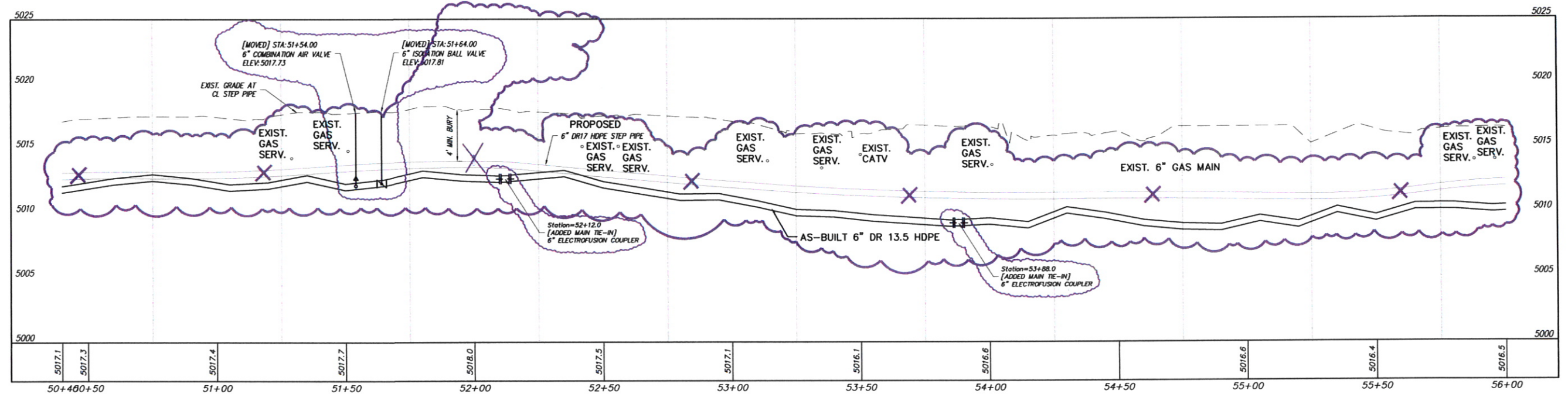


NOTICE OF EXTENDED PAYMENT PROVISION:
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AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

PLAN

NOTES:

- MAINTAIN 3 FEET MIN. FROM EXISTING EITHER EASTERN EDGE OF PAVEMENT OR EXISTING GAS LINE FOR LOCATION OF STEP COLLECTION LINE.
- ALL SERVICE LINES SHALL HAVE A BALL VALVE AND END CAP MATCHED TO THE HDPE LINE SIZE, TYP. SEE DETAIL, SHEET DT-3.



STEP SYSTEM PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'

REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: August 3, 2010
SCALE: AS SHOWN
DRAWN BY: SBH
CHECKED BY: LTH
APPROVED BY: JAM



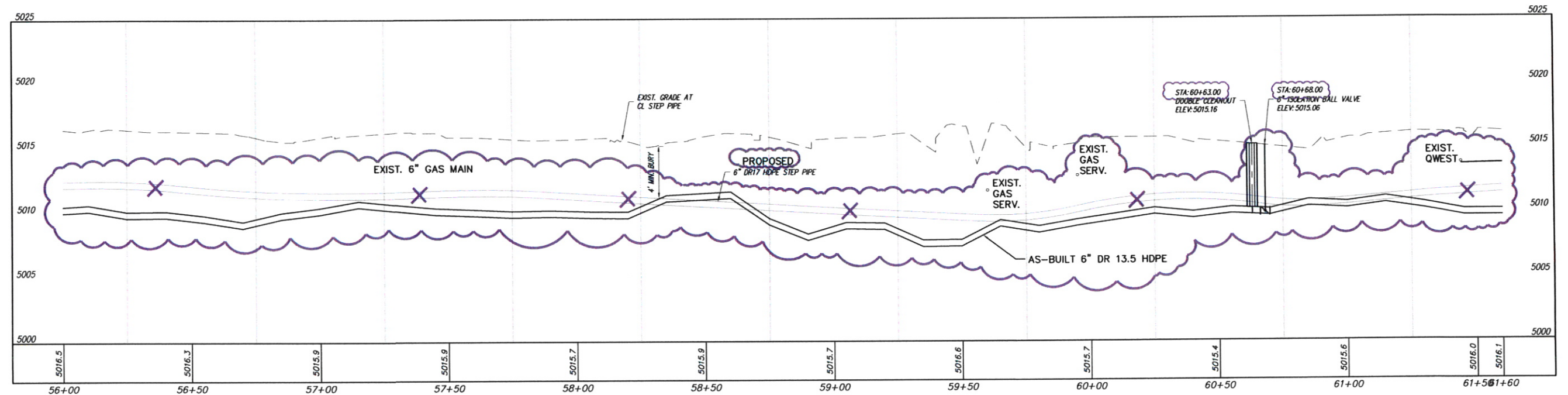
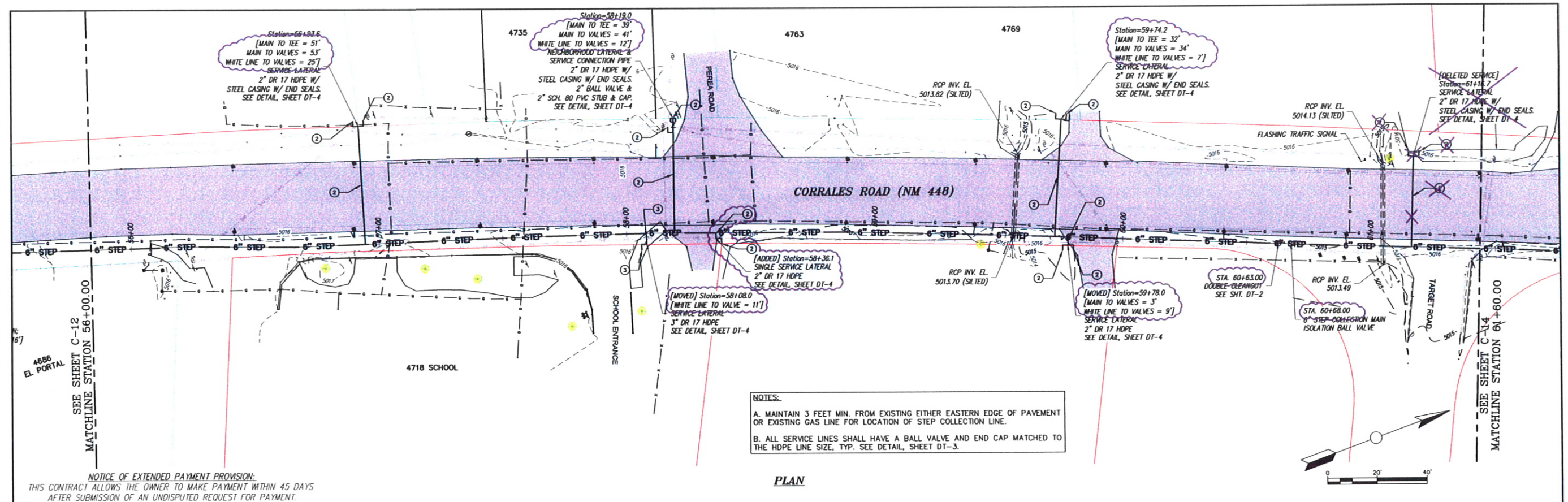
SOUDER, MILLER & ASSOCIATES, 3451 CANDELARIA RD.,
ALBUQUERQUE, NEW MEXICO 87107 TELE: 505-299-0942
Albuquerque - Las Cruces -
Santa Fe, NM - Cortez, CO - Monticello, UT

NOTICE OF
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STEP SYSTEM PLAN & PROFILE STA. 50+40 TO STA. 56+00
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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STEP SYSTEM PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'

REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: August 3, 2010 DRAWN BY: SBH
CHECKED BY: LTH
SCALE: AS SHOWN APPROVED BY: JAN



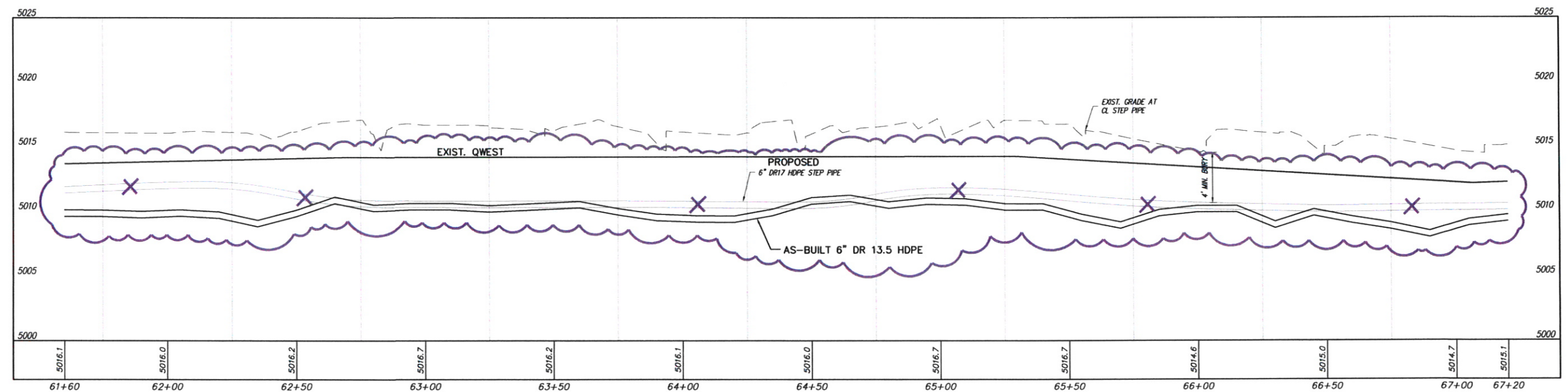
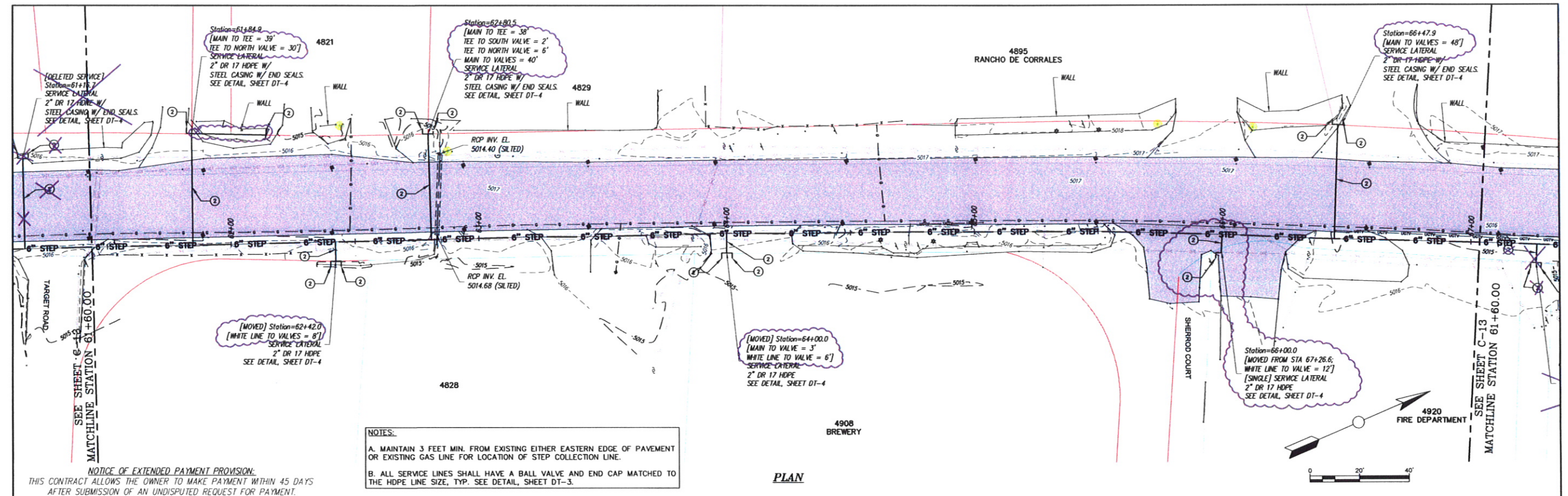
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Albuquerque - Las Cruces -
Santa Fe, NM - Cortez, CO - Monticello, UT

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STEP SYSTEM PLAN & PROFILE STA. 56+00 TO STA. 61+60
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: August 3, 2010
SCALE: AS SHOWN
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APPROVED BY: JAM



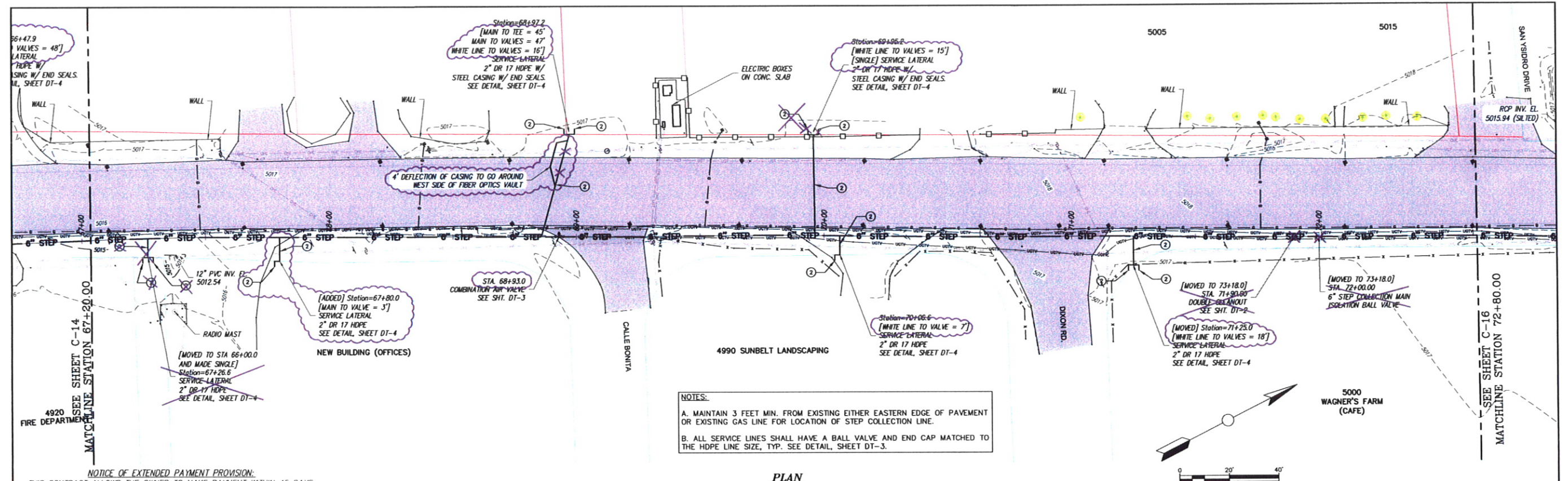
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STEP SYSTEM PLAN & PROFILE STA. 61+60 TO STA. 67+20
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

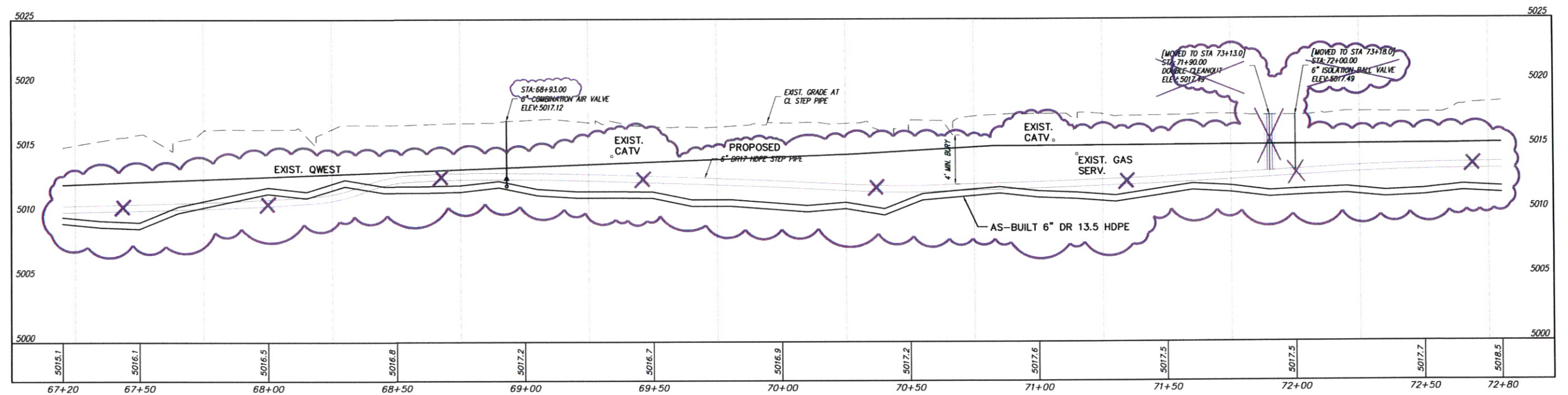
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C-14



NOTICE OF EXTENDED PAYMENT PROVISION:
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PLAN



STEP SYSTEM PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'

REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: August 3, 2010 DRAWN BY: SBH
CHECKED BY: LTH
SCALE: AS SHOWN APPROVED BY: JAM



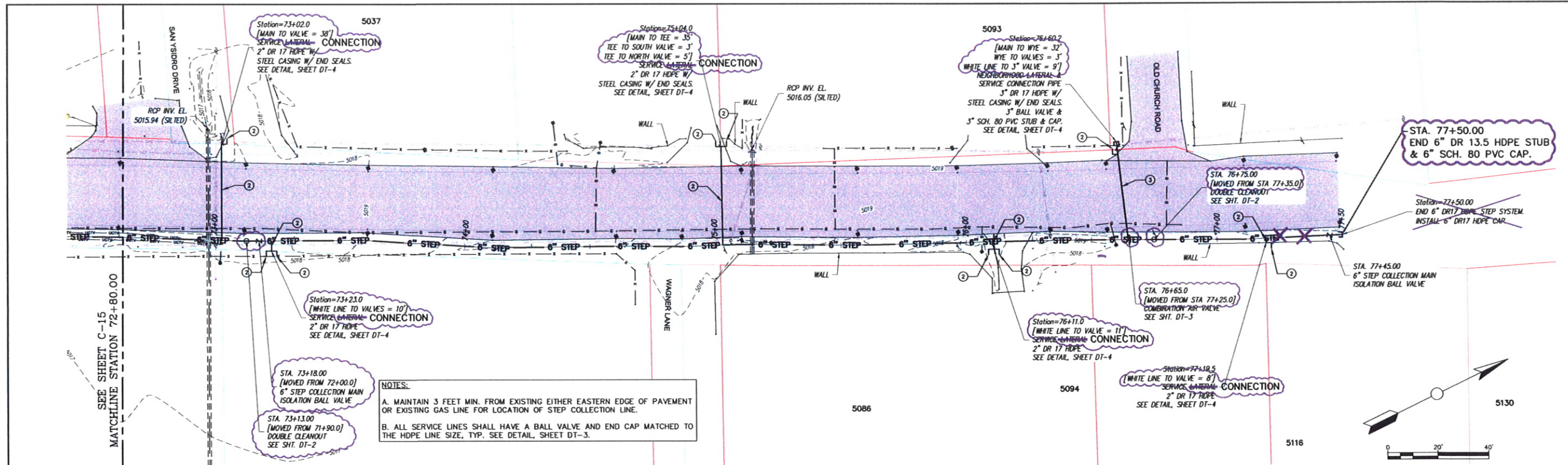
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NOTICE OF
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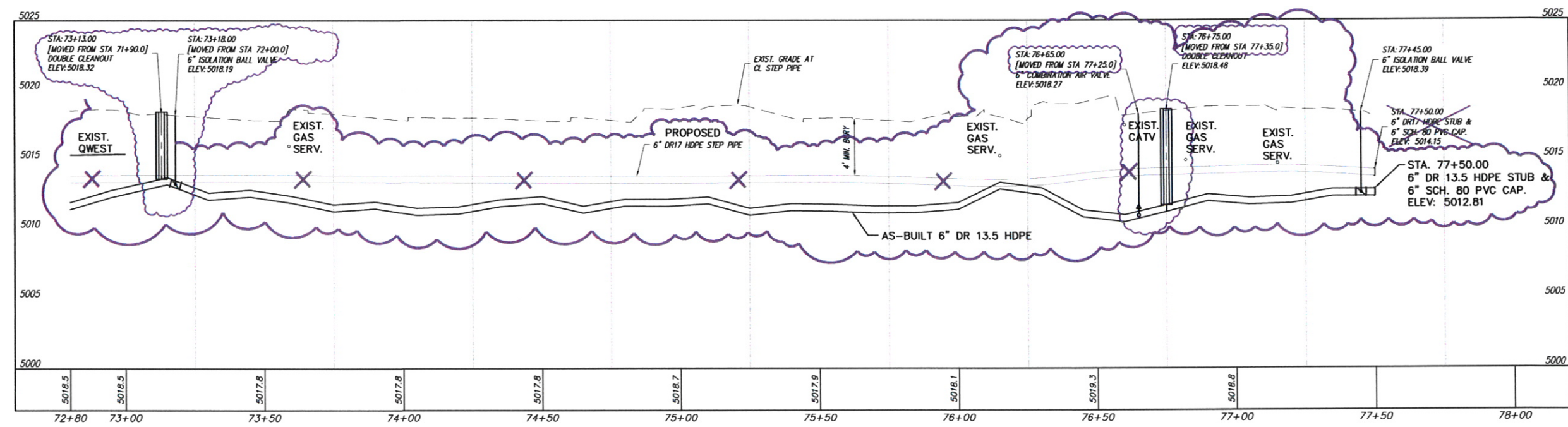
STEP SYSTEM PLAN & PROFILE STA. 67+20 TO STA. 72+80
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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C-15



PLAN



STEP SYSTEM PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'

REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: August 3, 2010
SCALE: AS SHOWN

DRAWN BY: SEH
CHECKED BY: LTH
APPROVED BY: JAM

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Albuquerque, New Mexico 87107 TEL: 505-299-0942
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PAYMENT

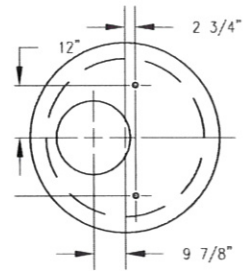
STEP SYSTEM PLAN & PROFILE STA. 72+80 TO STA. 77+08
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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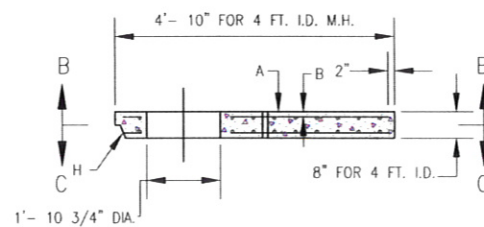
SHEET
C-16

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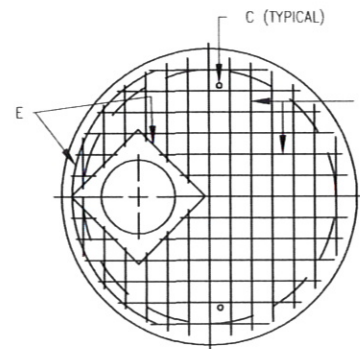
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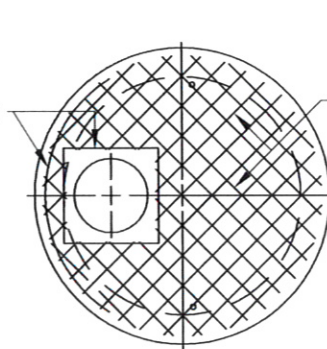
PLAN - 4' I.D. MH



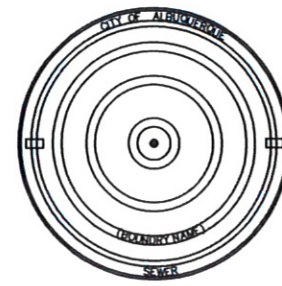
SECTION A-A



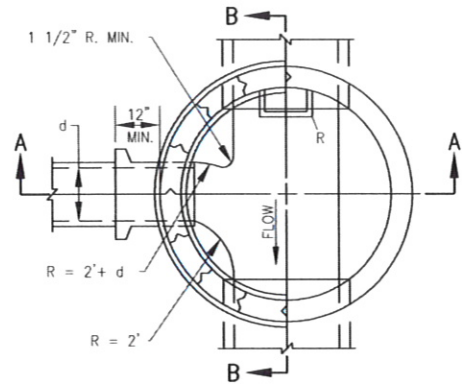
SECTION B-B
TOP MAT



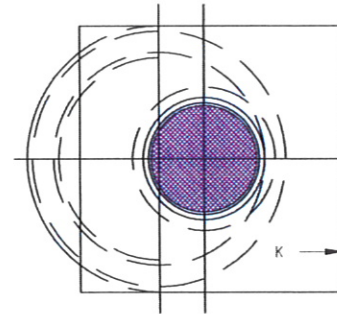
SECTION C-C
BOTTOM MAT



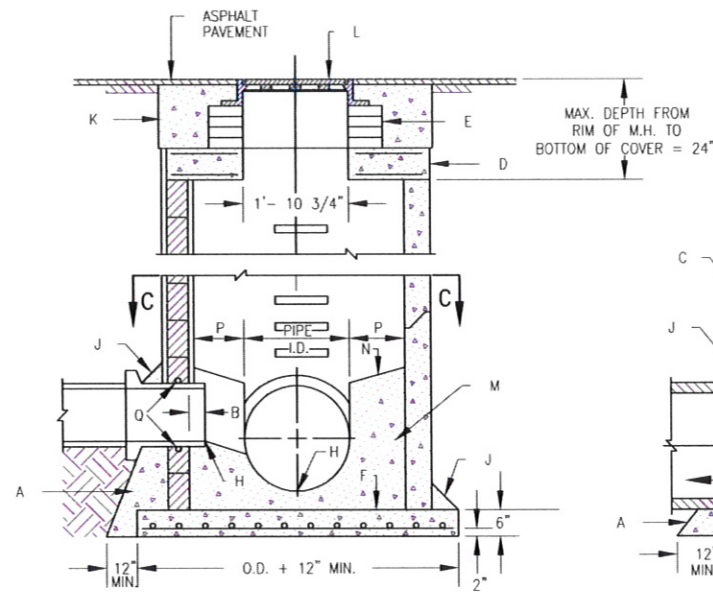
VENTED COVER FOR TYPE C M.H.



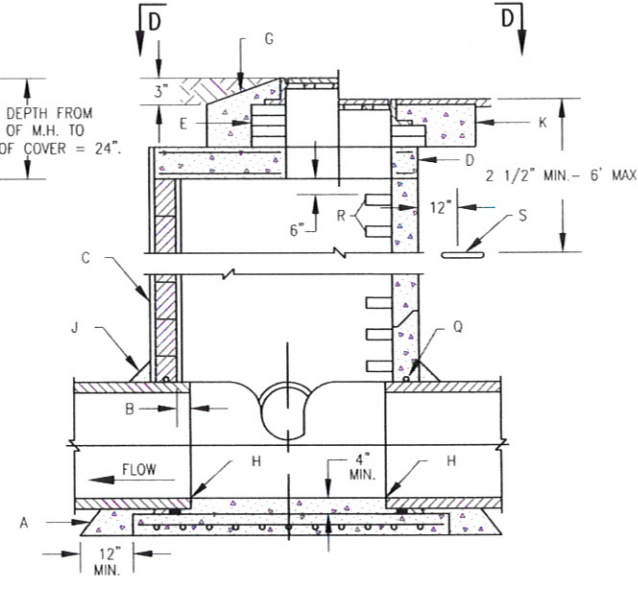
PLAN AT C-C



PLAN AT D-D



CROSS SECTION A-A



CROSS SECTION B-B

GENERAL NOTES:

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.

CONSTRUCTION NOTES:

- 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).

PROJECT NOTE:

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

CONSTRUCTION NOTES FOR 4' DIA. M.H. COVER:

- 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' 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' 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.

NOTICE OF EXTENDED PAYMENT PROVISION:
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REVISIONS		
BY	DATE	DESC

DATE: 8/3/2010
SCALE: AS SHOWN
DRAWN BY: SBH
CHECKED BY: ACT
APPROVED BY: JAM



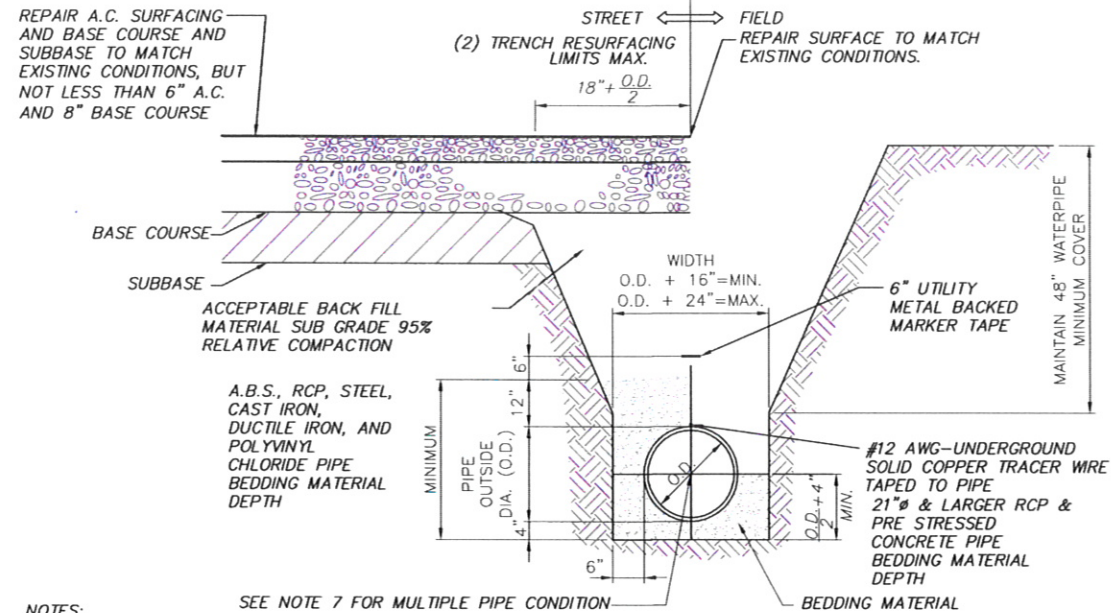
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MANHOLE DETAILS
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

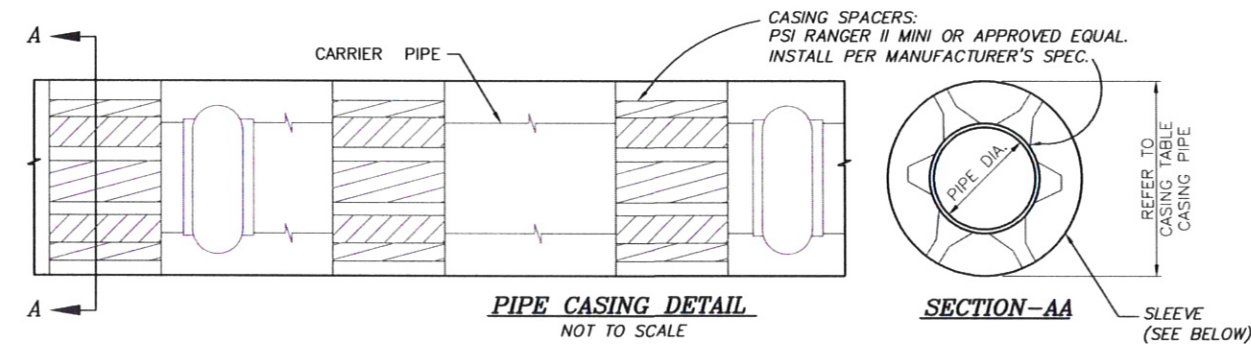
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SHEET
DT-1



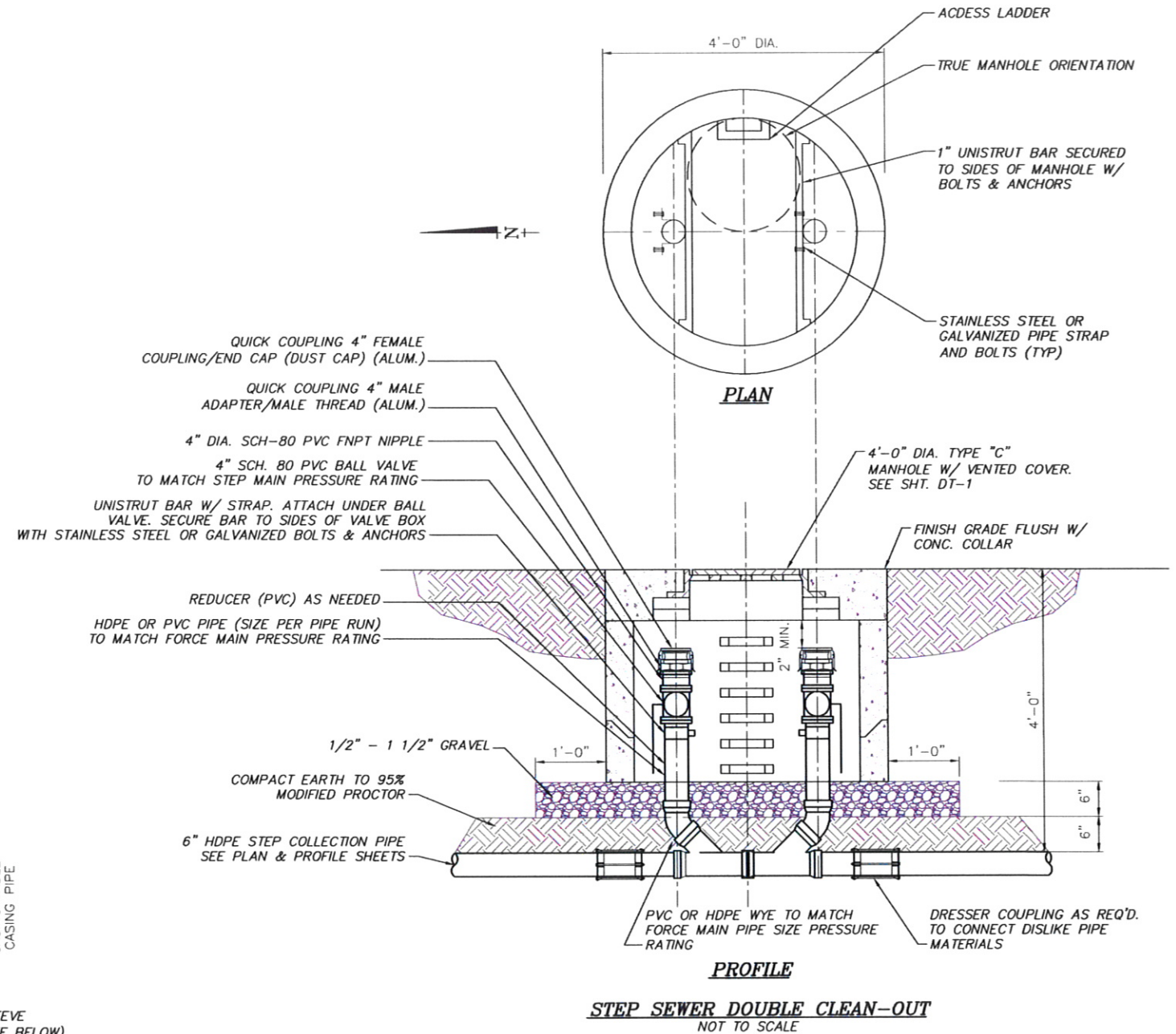
- NOTES:**
- SEE NOTE 7 FOR MULTIPLE PIPE CONDITION
- (1) MINIMUM COVER DEPTH BELOW OFFICIAL STREET GRADE.
 - (2) TRENCH TO BE BRACED OR SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKMEN AND THE PROTECTION OF OTHER UTILITIES.
 - (3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPHALT AND STRIPING NEEDED TO PATCH DISTURBED AREAS. THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO MEASUREMENT OR PAYMENT SHALL BE MADE. THE CONTRACTOR SHALL SUBMIT PATCHING METHODS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
 - (4) EXISTING A.C. PAVEMENT SHALL BE SAW CUT TO A MINIMUM DEPTH OF 1 1/2" OR 25% OF ITS THICKNESS, WHICHEVER IS GREATER, IN SUCH A MANNER SO AS NOT TO TEAR, BULGE OR DISPLACE ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL.
 - (5) A TACK COAT OF ASPHALTIC EMULSION OR PAVING ASPHALT SHALL BE APPLIED TO EXISTING A.C. AT ALL SURFACES, PRIOR TO RESURFACING.
 - (6) ASPHALTIC CONCRETE RESURFACING:
 - A) MINIMUM TOTAL THICKNESS SHALL BE ONE INCH GREATER THAN EXISTING A.C.
 - B) A.C. SHALL BE HOT PLANT MIX, NMDOT STANDARDS.
 - (7) WHEN MULTIPLE PIPES ARE PLACED IN ONE TRENCH, SEE PLANS FOR PIPE SIZES AND MINIMUM DISTANCES BETWEEN EACH PIPE (DISTANCE VARIES DEPENDING ON PIPE SIZES).

**GENERALIZED TRENCH LIMITS FOR OPEN TRENCH
PIPE INSTALLATION, BEDDING & BACKFILL LIMITS**
NOT TO SCALE



CASING SPECIFICATIONS			
LOCATION	CASING DIA. & MATERIAL	CARRIER	NOMINAL SPACER SKID HEIGHT
MULTIPLE	6" SCHED. 40 STEEL	2" DR 17 HDPE	1.5" PSI*
MULTIPLE	8" SCHED. 40 STEEL	3" DR 17 HDPE	2.0" PSI*

- NOTE:**
1. ALL HIGHWAY 448 CROSSINGS ARE TO BE AT 4' MINIMUM BURY DEPTH AND ARE OPEN TRENCH CONSTRUCTION UNLESS OTHERWISE NOTED.
 2. END SEALS REQUIRED. "PSI" OR APPROVED EQUAL.
- * = "PIPELINE SEAL & INSULATOR" OR APPROVED EQUAL



- NOTE:**
SIZE FITTINGS BY SIZE OF FORCE MAIN.
- NOTICE OF EXTENDED PAYMENT PROVISION:**
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REVISIONS			DATE:	DRAWN BY:
BY	DATE	DESC	August 3, 2010	SBH
			SCALE: AS SHOWN	CHECKED BY: JAM
				APPROVED BY: JAM



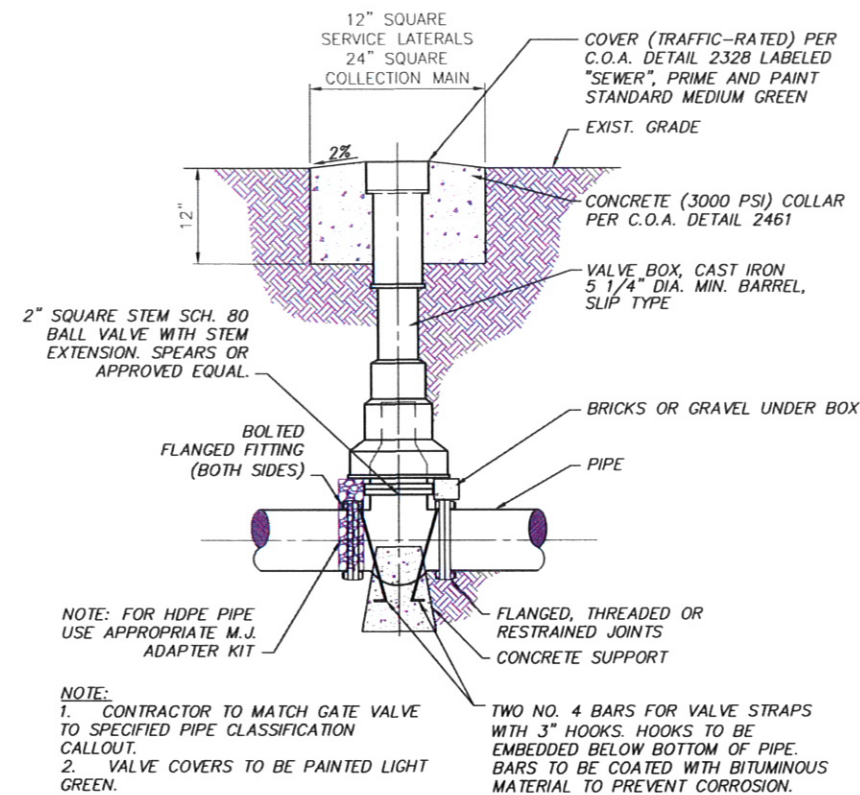
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ALBUQUERQUE, NEW MEXICO 87107 TELE: 505-299-0942
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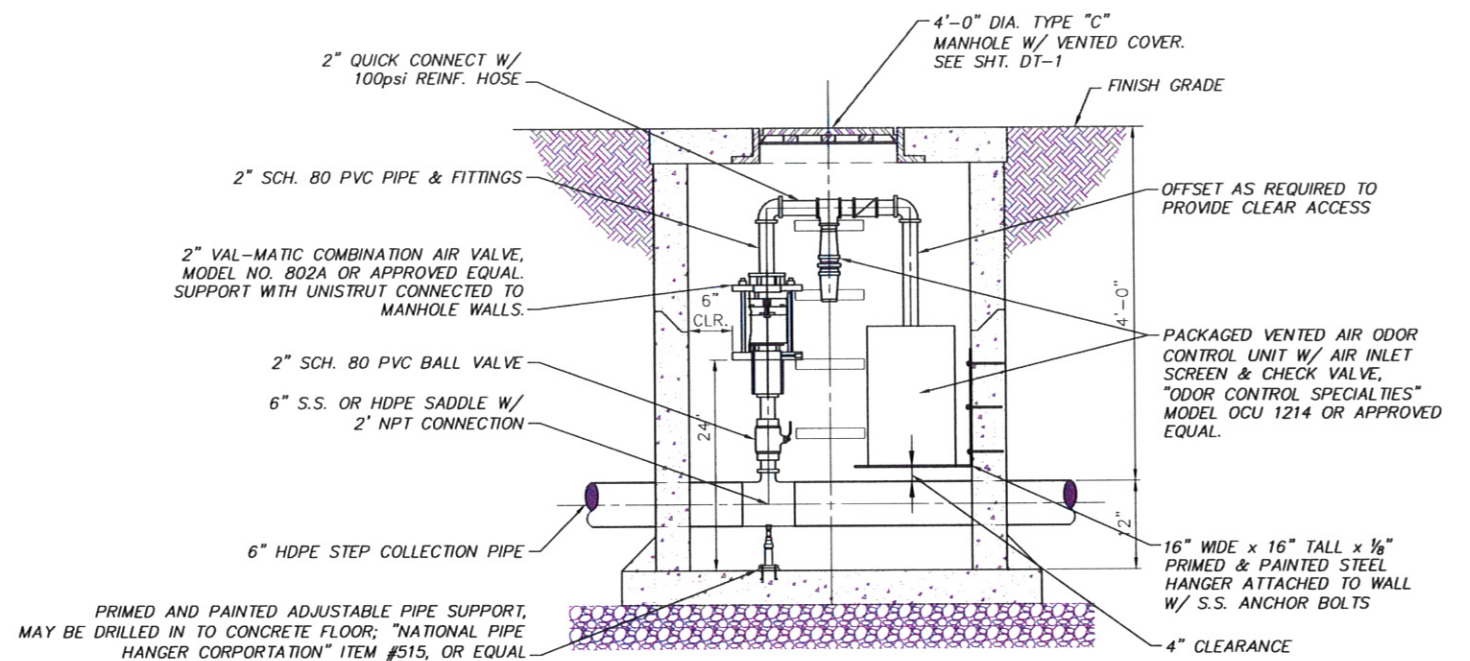
DETAILS
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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DT-2



TYPICAL BALL VALVE DETAIL
NOT TO SCALE



STEP PIPING COMBO AIR VALVE DETAIL
NOT TO SCALE

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REVISIONS		
BY	DATE	DESC

DATE: 8/3/2010 DRAWN BY: SBH
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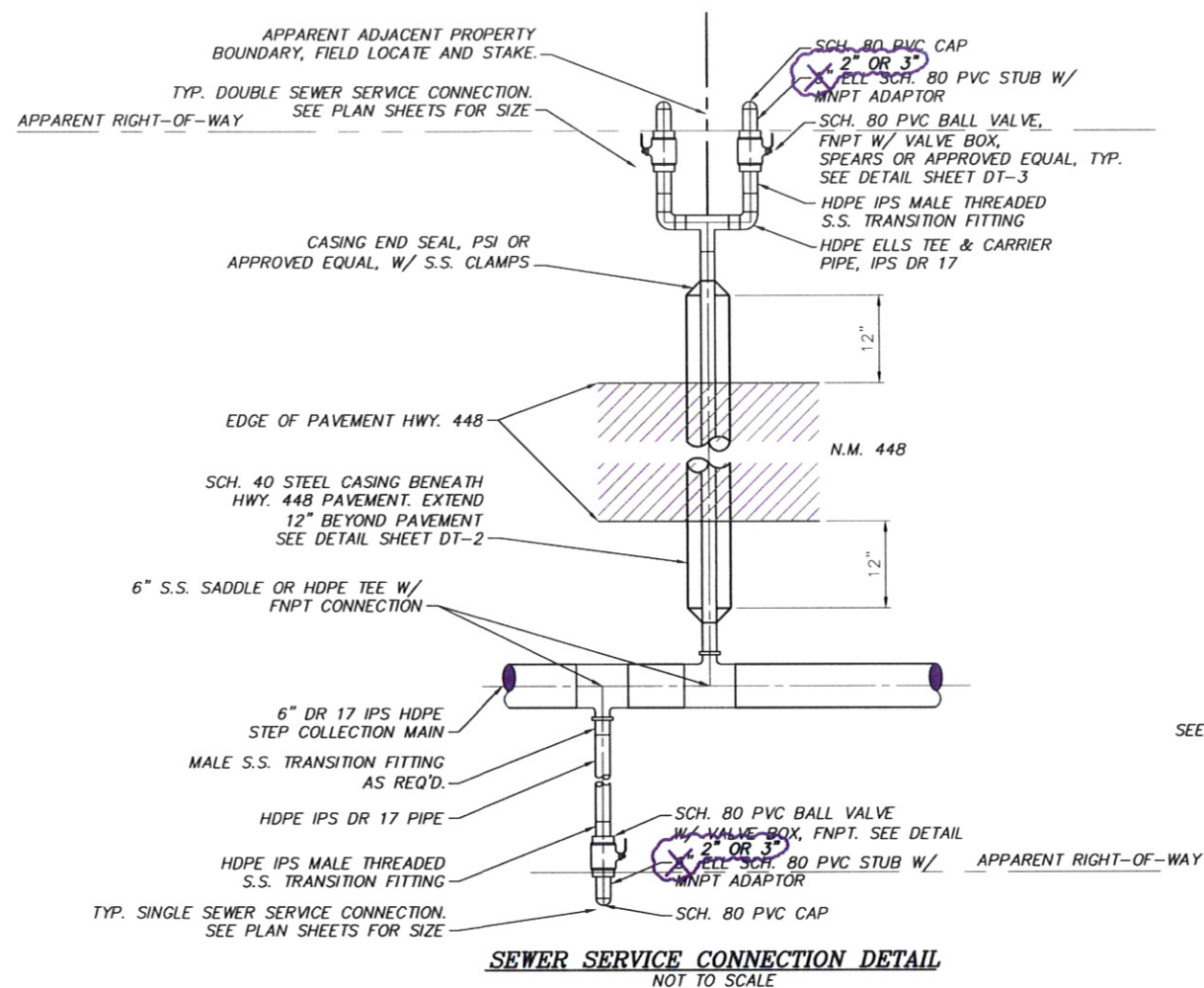
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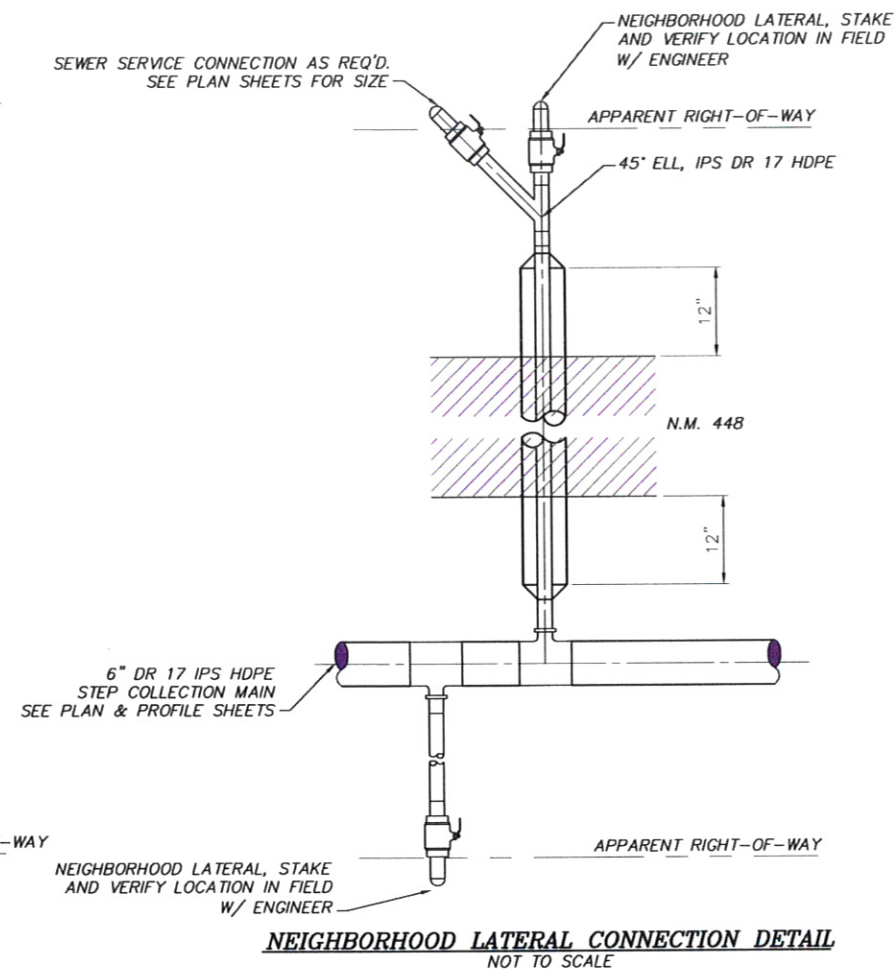
VALVE DETAILS
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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DT-3



NOTES:
 1. STOP SERVICE CONNECTIONS AT APPARENT EDGE OF PROPERTY/ROW
 2. CONFIRM ALL SERVICE LOCATIONS IN THE FIELD W/ ENGINEER.



NOTE:
 DETAILS SIMILAR TO SEWER SERVICE CONNECTION DETAILS.

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REVISIONS		
BY	DATE	DESC
SMA/MS	3-4-10	AS-BUILT, EDIT TEXT

DATE: August 3, 2010 DRAWN BY: SBH
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SERVICE CONNECTION DETAILS
 PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
 CORRALES, NEW MEXICO

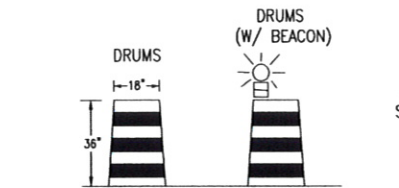
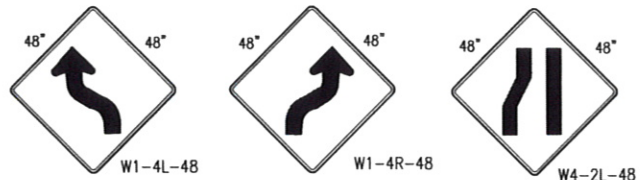
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SHEET
 DT-4

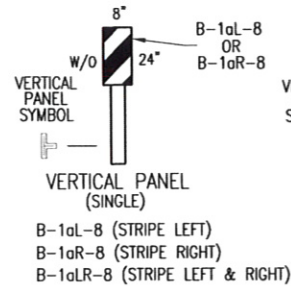
SIGN FACE DETAILS FOR CONSTRUCTION/MAINTENANCE

ALL SIGNS ARE BLACK ON ORANGE
UNLESS OTHERWISE SPECIFIED

EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE
STANDARD HIGHWAY SIGNS MANUAL (CURRENT EDITION) FOR PROPER ARRANGEMENT
AND SPACING OF LETTERS, LETTER HEIGHT, LETTER SERIES, SYMBOLS, AND
BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON THE PLANS.



ALL DRUMS SHALL COMPLY WITH THE
SPECIFICATIONS OF SECTION 702-TRAFFIC CONTROL
DEVICES FOR CONSTRUCTION, NMSHTD STANDARD
SPECIFICATIONS FOR HIGHWAY AND BRIDGE
CONSTRUCTION, CURRENT EDITION



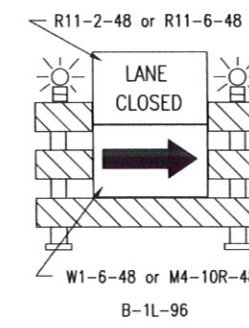
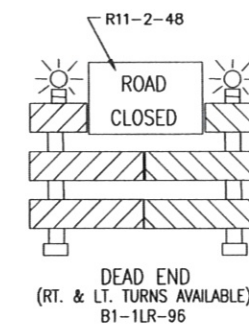
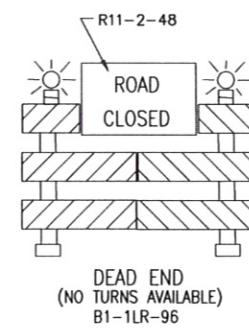
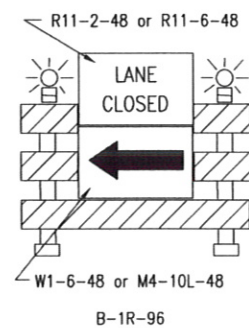
VERTICAL PANEL
(SINGLE)

B-1aL-8 (STRIPE LEFT)
B-1aR-8 (STRIPE RIGHT)
B-1aLR-8 (STRIPE LEFT & RIGHT)

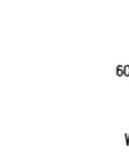
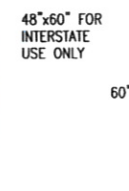
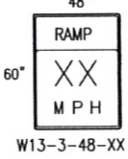
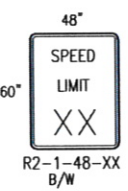
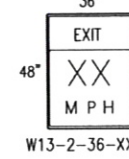
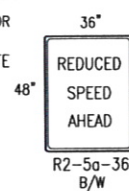
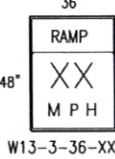
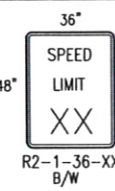
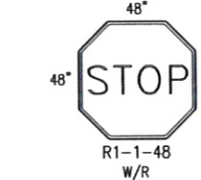
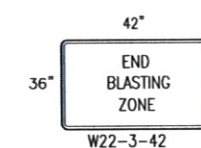
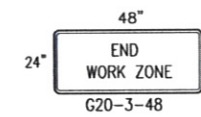
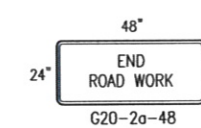
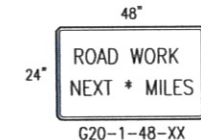
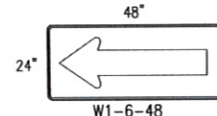
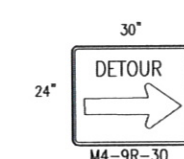
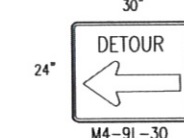
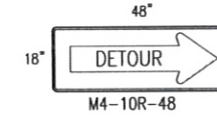
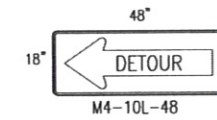
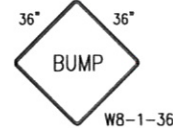
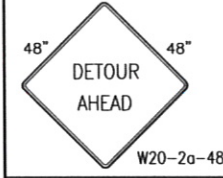
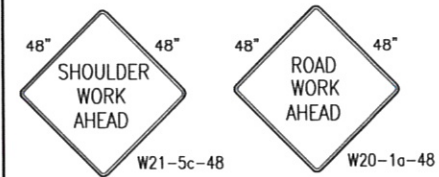
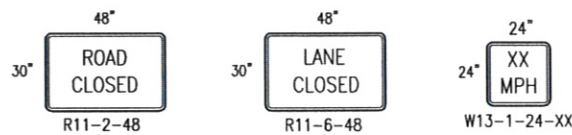
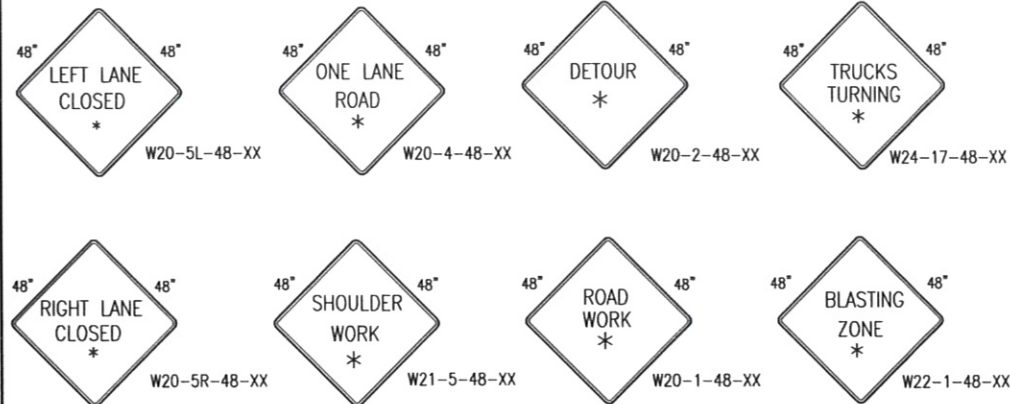


F.T.T.M.
SYMBOL

8 FT. TYPE III BARRICADES (BARRICADE SYMBOL)



THESE SIGNS REQUIRE APPROPRIATE DISTANCE
INDICATION (1 1/2 MILE, 1 MILE, 1/2 MILE, 1500 FT., 750 FT., 500 FT., 350 FT.)

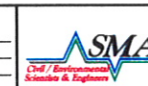


NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS
AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

P:\6-CORRALES\WW (6417098)\DRAFTING\AS-BUILD\T86417098-TRAFFIC CONTROL-RECD.DWG

REVISIONS		
BY	DATE	DESC

DATE: 8/3/2010
SCALE: AS SHOWN
DRAWN BY: SBH
CHECKED BY: ACT
APPROVED BY: JAM

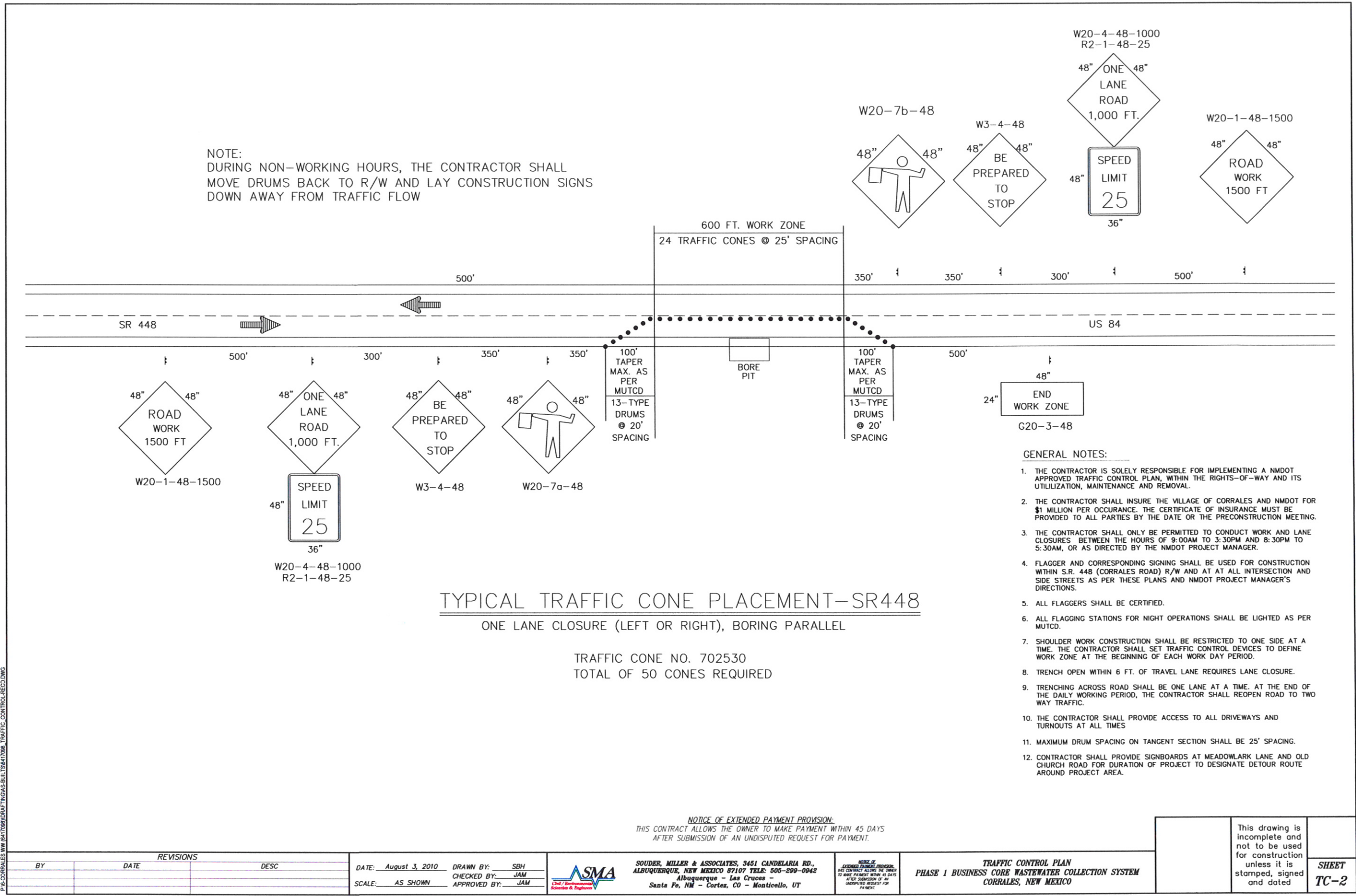


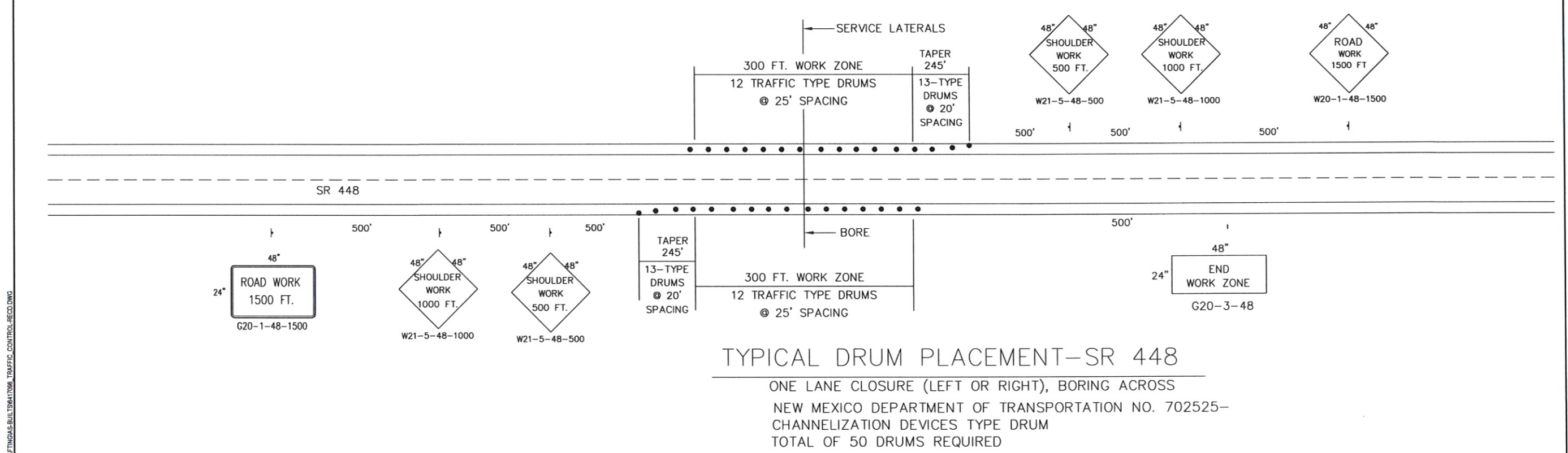
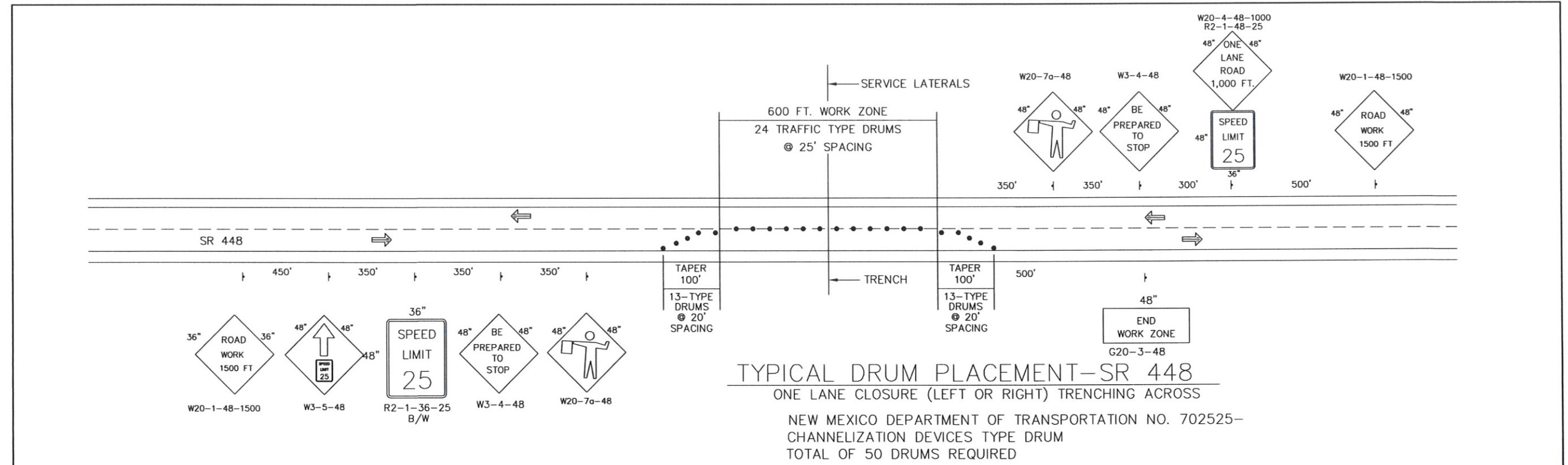
SOUDER, MILLER & ASSOCIATES, 3451 CANDELARIA RD.,
ALBUQUERQUE, NEW MEXICO 87107 TELE: 505-299-0942
Albuquerque - Las Cruces -
Santa Fe, NM - Cortez, CO - Monticello, UT


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

STANDARD NMDOT TRAFFIC CONTROL SIGN FACE DETAILS
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

This drawing is incomplete and not to be used for construction unless it is stamped, signed and dated	SHEET TC-1
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REVISIONS BY DATE DESC			DATE: 8/3/2010 SCALE: AS SHOWN	DRAWN BY: SBH CHECKED BY: ACT APPROVED BY: JAM	 SMA SOUDER, MILLER & ASSOCIATES, 3451 CANDELARIA RD., ALBUQUERQUE, NEW MEXICO 87107 TELE: 505-299-0942 Albuquerque - Las Cruces - Santa Fe, NM - Cortez, CO - Monticello, UT	TRAFFIC CONTROL GUIDELINE PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM CORRALES, NEW MEXICO	This drawing is incomplete and not to be used for construction unless it is stamped, signed and dated	SHEET TC-3
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P:\5-CORRALES.WW (8417098)\DRAFTING\AS-BUILD\T8417098 - TRAFFIC CONTROL-REC'D.DWG