



SANTA FE COUNTY
424 NM SR 599
SANTA FE, NEW MEXICO

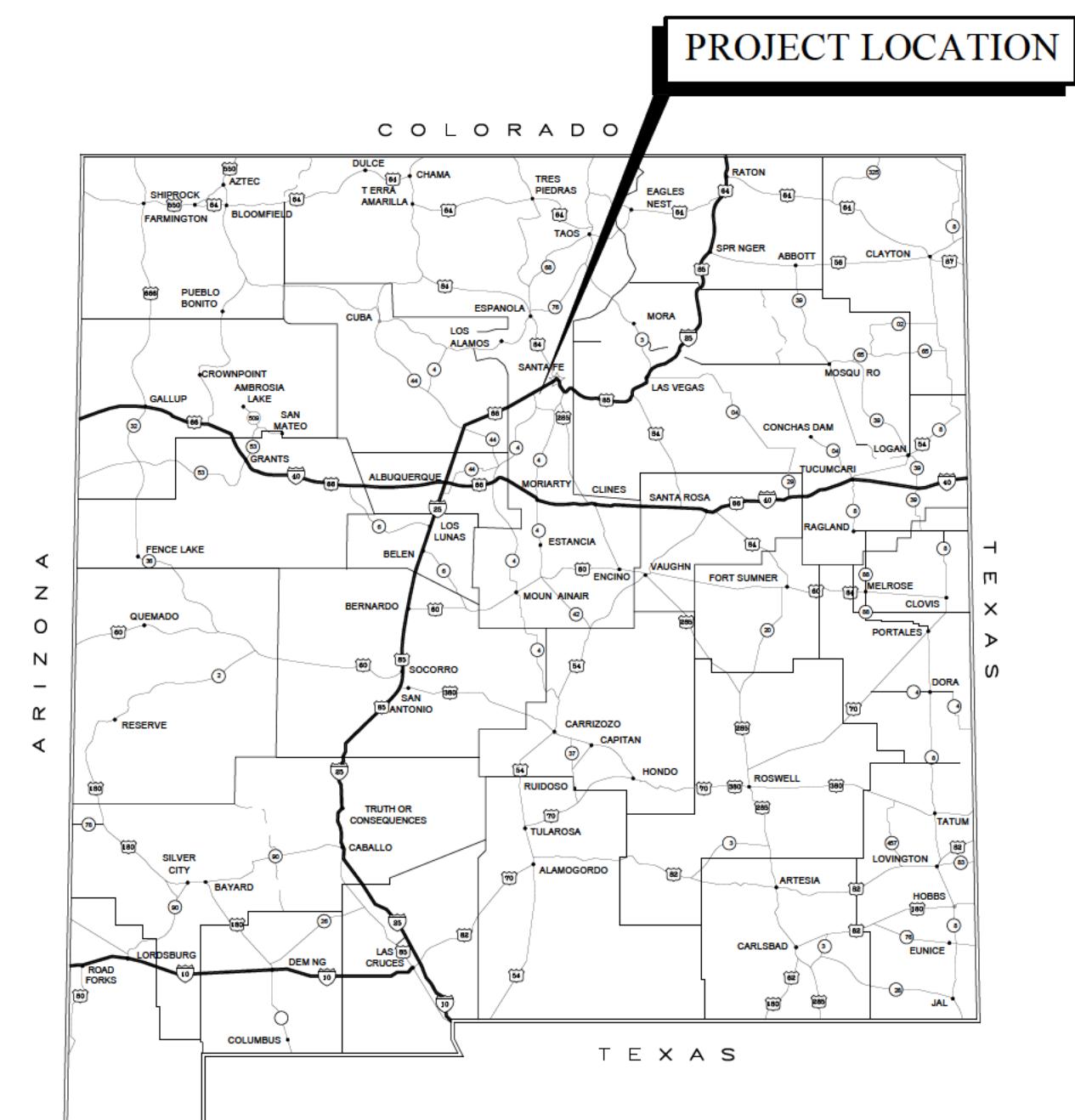
SEPTEMBER 2025

construction plans for the

ABAJO LIFT STATION RE-DIRECT

AGREEMENT SFC # 2023-XXXX-XX/XX

I N D E X O F D R A W I N G S



VICINITY MAP

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR THE CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS INSTRUMENT ARE OWNED BY AND THE PROPERTY OF MOLZEN-CORBIN & ASSOCIATES, AND WERE CREATED AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THIS PROJECT; THESE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL NOT BE USED BY ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF MOLZEN-CORBIN & ASSOCIATES.

THESE DRAWINGS REFLECT INFORMATION UTILITIES GATHERED BY SITE INSPECTION, DISCUSSIONS WITH MUNICIPAL UTILITIES, AND OTHER SOURCES. THE LOCATION, DIRECTION, AND POSITION OF LINES AND UTILITY CONNECTION POINTS IN THE VICINITY OF REQUIRED WORK MAY BE DIFFERENT FROM THE LOCATION SHOWN ON THESE DRAWINGS. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

DESCRIPTION	REV DATE	REV NO	NUMERIC SCALE CONFIRMATION
			DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH

SEQUENCE	SHEET	DESCRIPTION
GENERAL		
01	G-001	TITLE SHEET AND INDEX OF DRAWINGS
02	G-002	CONSTRUCTION NOTES AND PUBLIC UTILITY CONTACT INFORMATION
03	G-003	CONSTRUCTION NOTES II
04	G-004	SURVEY CONTROL AND SHEET KEY
CML		
05	C-101	EXISTING SITE CONDITIONS AND DEMOLITION PLAN
06	C-102	SITE PLAN
07	C-103	GRADING AND DRAINAGE PLAN
08	C-104	ADDITIVE ALTERNATE #1 LIMITS
09	C-501	MISCELLANEOUS DETAILS
10	C-502	FENCE AND GATE DETAILS
11	C-503	FENCE AND GATE DETAILS
WATER RESOURCES		
12	W-101	LIFT STATION UTILITY PLAN
13	W-102	NOT USED
14	W-103	EXISTING LIFT STATION MODIFICATIONS - PLAN
15	W-104	EXISTING LIFT STATION MODIFICATIONS - SECTION
16	W-105	NEW LIFT STATION - PLAN
17	W-106	NEW LIFT STATION - SECTION
18	W-201	SANITARY SEWER LINE PLAN AND PROFILE STA. 10+00 TO STA. 23+00
19	W-202	SANITARY SEWER LINE PLAN AND PROFILE STA. 23+00 TO STA. 36+00
20	W-203	SANITARY SEWER LINE PLAN AND PROFILE STA. 36+00 TO STA. 42+50
21	W-204	SANITARY SEWER LINE PLAN AND PROFILE STA. 42+50 TO STA. 46+50
22	W-205	SANITARY SEWER LINE PLAN AND PROFILE STA. 46+50 TO STA. 59+50
23	W-206	SANITARY SEWER LINE PLAN AND PROFILE STA. 59+50 TO STA. 65+78
24	W-501	SANTA FE COUNTY TRENCHING DETAILS
25	W-502	JACK AND BORE CROSSING DETAILS
26	W-503	PRESSURE CLEANOUT AND AIR VALVE DETAILS
27	W-504	ESENCIA SEWER LINE CONNECTION AND BACKFLOW PREVENTER DETAILS
28	W-505	DIVERSION MANHOLE A AND B DETAILS
29	W-506	METER VAULT PLAN AND SECTION
30	W-507	MISCELLANEOUS DETAILS
31	W-508	SANTA FE COUNTY MANHOLES I
32	W-509	SANTA FE COUNTY MANHOLES II
33	W-510	SANTA FE COUNTY MANHOLES III
ELECTRICAL		
34	E-101	LIFT STATION ELECTRICAL SITE PLAN
35	E-401	LIFT STATION SITE PLAN
36	E-501	LIFT STATION ELECTRICAL DETAILS
37	E-502	LIFT STATION ELECTRICAL DETAILS
38	E-601	LIFT STATION ELECTRICAL ONE LINE DIAGRAM
39	E-801	LIFT STATION CONTROL WIRING & I/O TAG LIST.

CERTIFICATION:

I, KENNETH R. MULLER, REGISTERED PROFESSIONAL ENGINEER NO. 12548 HEREBY CERTIFY THAT THE FOLLOWING PLANS AND DESIGNS WERE MADE UNDER MY SUPERVISION AND DIRECTION AND THAT SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF


KENNETH R. MULLER
12548
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
9-18-2025

KENNETH R. MULLER

NO. 12548

MOLZENCORBIN
ENGINEERS | ARCHITECTS | PLANNERS

2701 Miles Road SE, Albuquerque, New Mexico 87106 505 242 5700 office Molzencorbin.com

Molzen Corbin Project Number: CES235-11

G-001

Sheet

GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS TO ALL LOCAL BUSINESSES AND RESIDENCES FOR THE DURATION OF THIS PROJECT. THE CONTRACTOR SHALL ADVISE AND SCHEDULE ALL ACCESS CLOSURES, AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE, WITH THE AFFECTED PROPERTY OWNERS AND WITH THE ENGINEER.
2. THREE WORKING DAYS PRIOR TO ANY EXCAVATION. CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL, INC., 811, FOR LOCATION OF EXISTING UTILITIES.
3. UTILITY COORDINATION
PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS.
IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPE-LINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IN ADVANCE OF CONSTRUCTION OPERATIONS, IF OVERHEAD UTILITY LINES SUPPORT STRUCTURES, POLES GUYS, ETC. ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTIONS TO CONSTRUCTION OPERATIONS IS EVIDENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COST ASSOCIATED WITH THIS EFFORT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO SEPARATE PAYMENT WILL BE MADE.
CONTRACTOR IS TO SUPPORT AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND TELEPHONE, ELECTRIC CABLES, AND CABLE TELEVISION UTILITIES AT NO ADDITIONAL COST TO THE OWNER. CABLE IS TO BE SUPPORTED EVERY 15' (MINIMUM). CONTRACTOR SHALL COORDINATE WITH AND MAKE NECESSARY PAYMENT (IF ANY) TO UTILITY OWNER FOR DE-ENERGIZATION OF CABLES OR SUPPORT OF CABLES BY THE UTILITY OWNER.
4. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
5. THESE DRAWINGS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
6. THE CONTRACTOR SHALL COORDINATE ANY WATER SHUT-OFF OPERATION WITH THE UTILITY MANAGER NOT LESS THAN THREE (3) WORKING DAYS PRIOR TO INITIATING ANY WORK AFFECTING EXISTING WATER UTILITIES. WATER SERVICE SHUT-OFF SHALL BE LIMITED TO FOUR (4) HOURS. SEE SPECIFICATION SECTION 01 14 16.01 - COORDINATION WITH PUBLIC AND UTILITY INTERRUPTIONS.
7. REMOVE AND REPLACE EXISTING SIGNAGE, MAILBOXES, AND OTHER MINOR OBSTRUCTIONS AS NEEDED. THIS WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, AND NO SEPARATE PAYMENT WILL BE MADE, UNLESS NEW SIGNS ARE CALLED OUT.
8. THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF "RECORD DRAWINGS" FOR THIS PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO (2) WEEKS, AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE ENGINEER THROUGHOUT THIS PROJECT AND WILL BE REVIEWED BY THE ENGINEER FOR ACCURACY AND COMPLETENESS AT A MINIMUM OF ONCE EVERY THIRTY (30) DAYS. THE FINAL "RECORD DRAWINGS" SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL PAYMENT. SEE SPECIFICATION SECTION 01 78 39 - PROJECT RECORD DOCUMENTS.
9. THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF ALL ASPHALT PAVEMENT REMOVED ON THIS PROJECT AND NOT OTHERWISE BLENDED INTO BASE COURSE, AS DIRECTED BY THE OWNER, BY EITHER: - HAULING TO AN APPROVED LANDFILL IN ACCORDANCE WITH THE REGULATIONS OF THE NEW MEXICO SOLID WASTE ACT; OR - THE CONTRACTOR SHALL SAW CUT AND REMOVE EXISTING ASPHALT PAVEMENT AS INDICATED ON PLANS AND STOCKPILE MATERIAL TO A LOCATION DESIGNATED BY THE OWNER. THIS WORK SHALL BE CONSIDERED INCIDENTAL AND NO SEPARATE PAYMENT SHALL BE MADE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF SPILLS WHICH ARE ASSOCIATED WITH THIS PROJECT'S CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIAL SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, AND ANY OTHER MATERIALS WHICH MAY BE CONSIDERED A THREAT TO THE PUBLIC HEALTH OR THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPORTING OF ANY PAST SPILLS WHICH WERE ENCOUNTERED DURING THIS PROJECT'S CONSTRUCTION AND OF ANY CURRENT SPILLS NOT ASSOCIATED WITH THIS PROJECT'S CONSTRUCTION. THESE REPORTS SHALL BE MADE IMMEDIATELY TO THE NEW MEXICO ENVIRONMENTAL DEPARTMENT'S EMERGENCY RESPONSE TEAM AT 505-827-9329 AND TO THE ENGINEER.
11. LINEAR GRADING SHALL INCLUDE ALL GRADING ADJACENT TO THE ROADWAY AND AS REQUIRED TO TRANSITION AND TIE-IN EXISTING DRIVEWAYS WITH LIKE MATERIALS. NO ADDITIONAL PAYMENT WILL BE MADE.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING EARTHWORK DURING CONSTRUCTION BY HAULING AND DISPOSING OF EXCESS AND/OR UNSUITABLE MATERIAL AND IMPORTING CLEAN FILL AS NEEDED.
13. CONTRACTOR SHALL PROVIDE A VIDEO OF EXISTING ROAD CONDITIONS, AND IS RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING ROADWAY.
14. DISTURBANCE OF EXISTING VEGETATION MUST BE AVOIDED WHEREVER POSSIBLE. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DISTURBED AND/OR DAMAGED VEGETATION AND SHALL REPLACE AT ITS OWN EXPENSE.
15. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS REGARDING RELOCATION OF MAILBOXES, FENCES, LANDSCAPE FEATURES, ETC..
16. CONTRACTOR SHALL COORDINATE WITH U.S. POSTAL SERVICE CARRIER TO ENSURE THAT MAIL DELIVERY IS NOT INTERRUPTED DURING CONSTRUCTION.
17. CONTRACTOR SHALL COORDINATE WITH GARBAGE PICKUP PERSONNEL TO ENSURE THAT GARBAGE PICKUP IS NOT INTERRUPTED DURING CONSTRUCTION.
18. CONTRACTOR SHALL CONSTRUCT THE PROJECT PER THE TECHNICAL SPECIFICATIONS IN THE CONTRACT DOCUMENTS. A COPY OF THE TECHNICAL SPECIFICATIONS MAY BE OBTAINED FROM THE PROJECT ENGINEER. THE TECHNICAL SPECIFICATIONS INCLUDE THE FOLLOWING:
 1. CSI TECHNICAL SPECIFICATIONS
 2. SANTA FE COUNTY ORDINANCE 2003-01
AN ORDINANCE REGULATING PROCEDURES FOR WORKING IN, DISTURBING AND REPAIRING COUNTY PROPERTY AND RIGHTS-OF-WAY.
 3. NMDOT SPECIFICATIONS.

WATERLINE CONSTRUCTION

1. ALL WATER LINE AND FITTINGS MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH THE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS, THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, (NMAPWA) 2006 EDITION, OR SUBSEQUENT REVISIONS, AND THE SANTA FE COUNTY WATER UTILITY CONSTRUCTION STANDARD AND SPECIFICATIONS MANUAL, UNLESS OTHERWISE INDICATED ON THESE DRAWINGS. WHEN CONFLICT ARISES AMONG THESE, THE LATTER SHALL PREVAIL.
2. LOCATION OF LINES AND FITTINGS SHALL BE IN ACCORDANCE WITH THE DETAILS SHOWN ON THESE DRAWINGS.
3. UNLESS OTHERWISE INDICATED ON THESE DRAWINGS, PIPELINES AND ALL APPURtenant FITTINGS SHALL BE DUCTILE IRON, PVC C-900, WITH CLASS-D BEDDING OR BETTER. MECHANICAL OR MEGALUG (R) JOINTS, OR THERMAL FUSION JOINING RESPECTIVELY (HDPE). EXCAVATION SHALL BE PROPERLY MADE TO ACCOMMODATE THE PIPE'S BELL ENDS AS NECESSARY. WATERLINES SHALL BE 6" DIAMETER OR LARGER.
4. ALL WATER LINES SHALL BE INSTALLED IN THEIR OWN TRENCH, WITH NO OTHER UTILITIES IN THE TRENCH, BURIED UNDER A MINIMUM 48 INCHES OF COMPACTED BACKFILL.
5. WHEN CROSSING, WATER LINES SHALL ALWAYS BE ABOVE SEWER LINES, AND A MINIMUM 18-INCH CLEARANCE SHALL BE ALLOWED BETWEEN THE BOTTOM OF THE WATER LINE AND THE TOP OF ANY SANITARY SEWER, UNLESS SPECIAL CROSSING PROVISIONS ARE SHOWN ON THESE DRAWINGS.
6. TYPICAL HORIZONTAL SEPARATION BETWEEN WATER LINES AND ANY SANITARY SEWER LINE SHALL BE MINIMUM 10 FEET, AND SEPARATE THRENCHES SHALL BE EXCAVATED IN ALL CASES.
7. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DISINFECTION AND PRESSURE TESTING OF ALL NEW WATER LINES, IN ACCORDANCE WITH AWWA STANDARDS. COUNTY UTILITY PERSONNEL SHALL BE PRESENT DURING SUCH TESTING, AND AN INSPECTION REPORT SHALL BE SUBMITTED BY THE CONTRACTOR TO THE COUNTY UTILITIES PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE COUNTY UTILITY STAFF FOR THEIR PRESENCE DURING FIELD TESTING OF LINES. BACTERIA TEST RESULTS OVER 30 DAYS OLD, BY THE COMPLETION OF THE PROJECT SHALL BE RETESTED AT NO ADDITIONAL EXPENSE TO THE OWNER.
8. ALL VALVES 12" DIAMETER OR SMALLER SHALL BE FULL-PORT GATE TYPE, RESILIENT SEATING, MECHANICAL OR MEGALUG (R) JOINTS, PIPE, AND INSTALLED IN COMPLIANCE WITH THE COUNTY WATER SYSTEM DETAILS.
9. UPON COMPLETION ONE VALVE SHALL BE TIED TO ONE OR MORE OF THE SANTA FE COUNTY'S PERMANENT SURVEY MONUMENTS, (OR OTHER VISIBLE WATER FEATURES OR FIXTURES) SUCH AS FIRE HYDRANTS AND WATER METERS WITH DISTANCES BETWEEN ALL FITTINGS AND APPURTEANCES PROVIDED AS REQUIRED IN THE UTILITY DEPARTMENTS CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL. THE WORK SHALL BE PERFORMED BY A REGISTERED NEW MEXICO LICENSED SURVEYOR, OR ENGINEER WITH INFORMATION PROVIDED BY THE CONTRACTOR.
10. ALL FIRE HYDRANTS SHALL BE SUPPLIED WITH NFP CONNECTORS, AND NUMBERED (NUMBER SUPPLIED BY THE COUNTY FIRE DEPARTMENT). HYDRANTS SHALL BE INSTALLED TO ALLOW A MINIMUM HORIZONTAL CLEARANCE OF 3-FEET ALL AROUND THEM.
11. WATER SERVICE CONNECTIONS AND METERS SHALL BE 1-INCH MINIMUM DIAMETER FOR LOTS THAT WILL BE THE SITE FOR RESIDENTIAL BUILDINGS EQUIPPED WITH FIRE SUPPRESSION SYSTEMS. OTHERWISE, CONNECTIONS AND METERS SHALL BE STANDARD 5/8 INCH DIAMETER. METER SETTERS SHALL BE PER STANDARD REQUIRED IN SANTA FE COUNTY UTILITY DEPARTMENT'S CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL. METERS SHALL BE NEPTUNE MACH-10 WITH E-CODE, R-9001 REGISTER AND RADIO TRANSMITTER.
12. LOCATE WIRES SHALL BE INSTALLED ON ALL WATER LINES. THE LOCATE WIRE MUST BE VISIBLE IN ALL VALVE VAULTS, MANHOLES OR OTHER ACCESS STRUCTURES. THIS WILL BE VERIFIED DURING THE PRELIMINARY INSPECTION PRIOR TO PAVING. THE LOCATE WIRE SHALL BE A CONTINUOUS 12 GAUGE, SOLID STRAND INSULATED COPPER WIRE. SPLICES OF THE LOCATE WIRE SHALL FOLLOW THE SPECIFICATIONS IN THE SANTA FE COUNTY UTILITY DEPARTMENT'S CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL.
13. BLUE CARBONITE MARKERS WITH SFCU I.D. STICKERS ARE REQUIRED ON ALL VALVES AND APPURTEANCES, AND EVERY 300 FEET ALONG PIPELINES THAT ARE NOT IN ROADWAY.
14. IF BURIED ARCHEOLOGICAL OR CULTURAL DEPOSITS ARE DISCOVERED DURING CONSTRUCTION. WORK SHALL CEASE IN THE AFFECTED AREA, AND THE CONTRACTOR SHALL CONTACT THE NMDOT ENVIRONMENTAL BUREAU (STEVE LAKATOS BY PHONE AT 505-827-5513 OR BY EMAIL AT STEVEN.LAKATOS@STATE.NM.US).

DRY UTILITIES

1. SHADING AND BEDDING MATERIAL SHALL BE TYPE IV. CLASS 1 FOR DIRECT BURY CABLE, AND TYPE IV. CLASS 2 FOR CABLE IN CONDUIT. TYPE 111 MATERIAL SHALL BE CONSIDERED SUITABLE FOR EITHER TYPE OF INSTALLATION.
2. IF TRENCH-RUN MATERIAL MEETS BACKFILL MATERIAL REQUIREMENTS, 3-INCH BEDDING MAY BE OMITTED, PROVIDED THAT THE TRENCH BOTTOM IS SMOOTH, FLAT, AND WITHOUT SURFACE IRREGULARITIES.
3. SEPARATION BETWEEN JACKETED PRIMARY AND COMMUNICATION CABLES SHALL BE AT LEAST 12 INCHES.
4. WARNING TAPE SHALL BE PLACED A MINIMUM 12 INCHES ABOVE THE UPPER LEVEL OF UTILITIES AT THE CENTER OF THE TRENCH.
5. DRY UTILITY REQUIREMENTS SPECIFIED BY THE RESPECTIVE UTILITY SHALL BE FOLLOWED.

ENVIRONMENTAL EROSION AND SEDIMENT CONTROL REQUIREMENTS

1. THE CONTRACTOR SHALL SUBMIT TO THE PROJECT MANAGER AND OR OWNER'S PROJECT REPRESENTATIVE(OPR) A SWPPP PLAN THAT COMPLIES WITH THE 2017 CONSTRUCTION GENERAL PERMIT AND SUBSEQUENT REVISIONS. SEE SPECIFICATIONS SECTION 0174 17 - STORM DRAINAGE DISCHARGE COMPLIANCE.
2. AT A MINIMUM, ALL AREAS DENUDED AND/OR DISTURBED BY CONSTRUCTION TRAFFIC SHALL BE SPRAYED WITH WATER ON A DAILY BASIS TO CONTROL DUST GENERATION. ADDITIONAL WATER SHALL BE APPLIED ON WINDY DAYS AS NEEDED OR AS REQUIRED BY SANTA FE COUNTY.
3. AS SOON AS FINAL GRADES ARE ACHIEVED, AND PROPER CLIMATIC CONDITIONS PREVAIL, NATIVE GRASS SEEDS SHALL BE APPLIED. CONTRACTOR SHALL PERFORM THIS ACTIVITY IN CONFORMANCE WITH THE APPROVED TERRAIN MANAGEMENT PLAN FOR SEED MIX DETAILS, AS WELL AS APPLICATION AND CARE METHODOLOGY.
4. GRAVEL BAGS AND OTHER EPA APPROVED DEVICES SHALL BE INSTALLED AROUND DROP INLET GRATES IMMEDIATELY AFTER THEIR INSTALLATION TO PREVENT SEDIMENT FROM ENTERING THE STORM WATER SYSTEM. SEDIMENT DEPOSITED AROUND GRAVEL BAGS AND OTHER EPA APPROVED DEVICES SHALL BE SWEPT AND REMOVED IMMEDIATELY UPON DEPOSITION.
5. SILT FENCES OR WADDLES MEETING EPA REQUIREMENTS FOR SEDIMENT CONTROL SHALL BE INSTALLED AT ALL SLOPES IN STRICT ACCORDANCE WITH SWPPP PLAN.
6. CONTRACTOR SHALL DISPOSE OF ITEMS DESIGNATED FOR REMOVAL WITHOUT SALVAGE, WHICH ARE UNSUITABLE FOR USE AS CONSTRUCTION MATERIALS IN THIS PROJECT. DISPOSAL SHALL BE PERFORMED IN AN ENVIRONMENTALLY SOUND SITE, SECURED BY THE CONTRACTOR IN CLOSE COORDINATION WITH THE APPROPRIATE REGULATORY AGENCIES. CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER AND OR OPR, IN WRITING, OF ANY RELEVANT DETAILS IN CONNECTION WITH THE DISPOSAL OPERATIONS.

LEGEND

- EXISTING MANHOLE
- EXISTING BIG GUN SPRINKLER
- W — EXISTING WATER LINE
- FO — EXISTING FIBER OPTIC LINE
- NEW MANHOLE
- NEW SEWER LINE
- ↑ FLOW ARROW

ABBREVIATIONS

ALUM	ALUMINUM	NMED	NEW MEXICO ENVIRONMENT DEPARTMENT
AV	AIR VALVE	NMDOT	NEW MEXICO DEPARTMENT OF TRANSPORTATION
AWWA	AMERICAN WATER WORKS ASSOCIATION	NTS	NOT TO SCALE
BH	BOREHOLE	Ø	DIAMETER
CAV	COMBINATION AIR VALVE	OPR	OWNER'S PROJECT REPRESENTATIVE
CMP	CORRUGATED METAL PIPE	PH	POTHOLE
DIP	DUCTILE IRON PIPE	PG	PAGE
DPCO	DOUBLE PRESSURE CLEANOUT	PNM	PUBLIC SERVICE COMPANY OF NEW MEXICO
DR	DIAMETER RATIO	PRV	PRESSURE REDUCING VALVE
FD	FLOOR DRAIN	PVC	POLYVINYL CHLORIDE
FL	FLANGE	ROW	RIGHT OF WAY
FT	FOOT	SFCO	SANTA FE COUNTY
LF	LINEAR FEET	SFCU	SANTA FE COUNTY UTILITIES
LOE	LIMIT OF EXCAVATION	SS	STAINLESS STEEL
MH	MANHOLE	STA	STATION
MJ	MECHANICAL JOINT	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	WL	WATERLINES

MOLZENCORBIN

2701 Miles Road SE
Abuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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

A circular stamp with the following text:

KENNETH R. MULLER
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
12548

The stamp is overlaid by a handwritten signature that appears to read "Kenneth R. Muller".

SANTA FE COUNTY

SANTA FE COUNTY
ES DIVISION 424 NM 520, SANTA FE, NM 87501



ABAJO LIFT STATIC RF-DIRECT

CONSTRUCTION NOTES AND

ED BY:

WED BY: S. MORROW

PUBLIC UTILITY CONTACTS				
CABLE TV	COMCAST	2534 CAMINO ENTRADA, S.F., N.M.	1-505-474-7886	DAVE AIKIN
TELECOMMUNICATIONS	CENTURYLINK	2701 SAWMILL ROAD, S.F., N.M.	1-505-425-9345	LORENZO LUJAN
ELECTRIC	PNM	4645 STATE HWY 14, S.F., N.M.	1-505-473-3279	DON FERRIS
GAS	GAS CO. of N.M.	6 FOREST LANE, S.F., N.M.	1-505-470-0668	FRANK ARAGON
SEWER/WATER/STORM/SWPPP	S.F. CO. UTILITIES	424 NM 599, S.F., N.M.	1-505-490-0038	SCOTT PERRY
SEWER/WATER	S.F. CO. UTILITIES	424 NM 599, S.F., N.M.	1-505-995-2748	JOEL MURRAY
SANTA FE COUNTY	S.F. CO. UTILITIES	424 NM 599, S.F., N.M.	1-505-490-0117	TRAVIS SODERQUIST

NMDOT NOTES

1. WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE NMDOT'S STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION AND TO THE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
2. WORK SHALL BE PERFORMED SO THAT DANGER, INCONVENIENCE, AND DELAY TO THE TRAVELING PUBLIC IS HELD TO A MINIMUM.
3. PLANS TO PROTECT AND HANDLE TRAFFIC DURING CONSTRUCTION SHALL BE SUBMITTED FOR REVIEW TO NMDOT PRIOR TO CONSTRUCTION
4. ALL TEMPORARY TRAFFIC CONTROL ASSOCIATED WITH WORK IN NMDOT RIGHT-OF-WAY MUST FULLY MEET THE REQUIREMENTS OF THE NEW MEXICO DEPARTMENT OF TRANSPORTATION (NMDOT) DISTRICT 1 AND DISTRICT 5.

MOLZENCORBIN

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Abuquerque, New Mexico 87106
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NEW MEXICO
12548
9-18-2025

REVISION

**SANTA FE COUNTY
TIES DIVISION 424 NM 599, SANTA FE, NM 87501**

 A FE COUNTY	<p><i>PROJECT NAME:</i></p> <p><i>ABAJO LIFT STATION RE-DIRECT</i></p>
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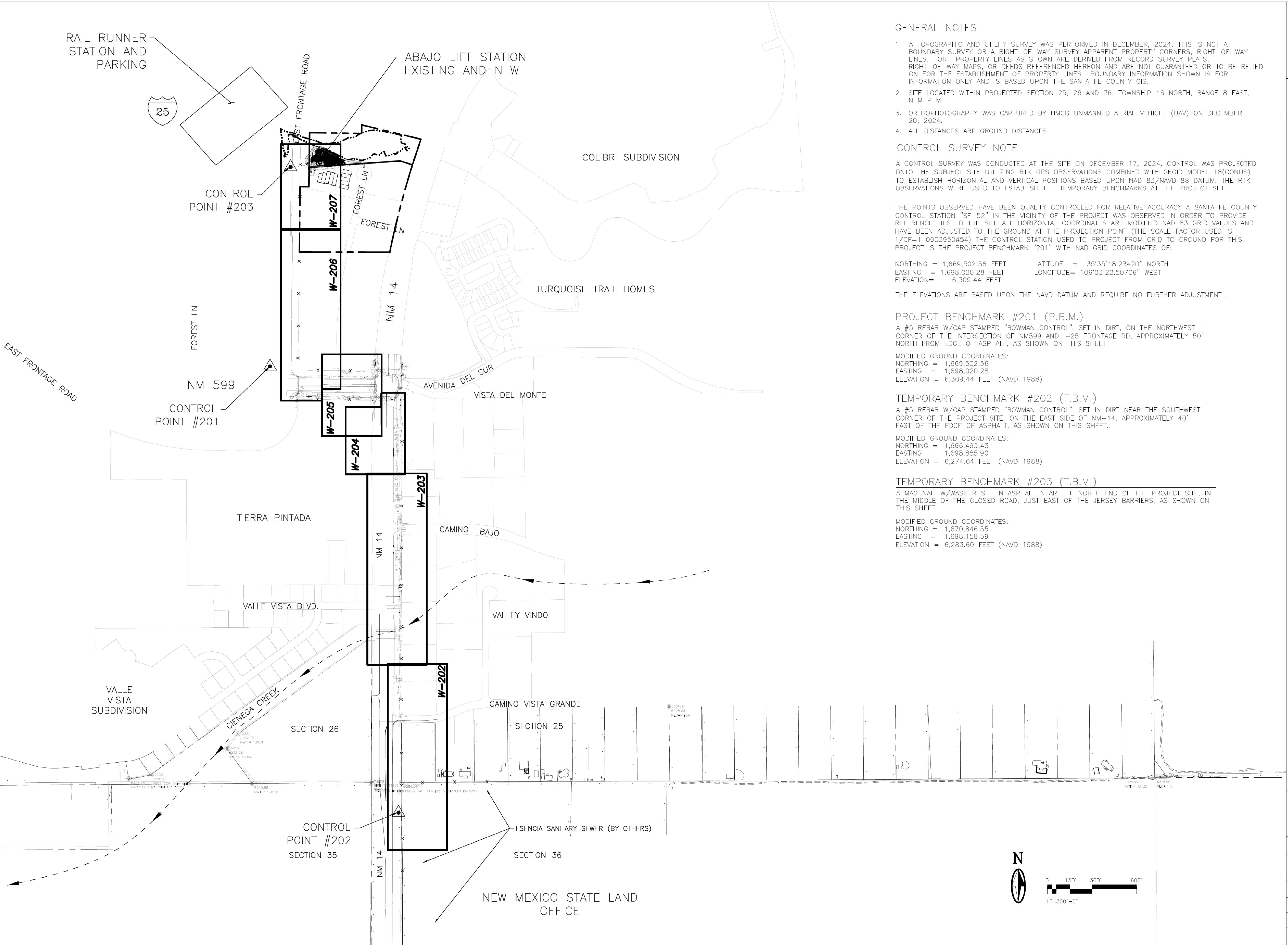
CONSTRUCTION NOTES II

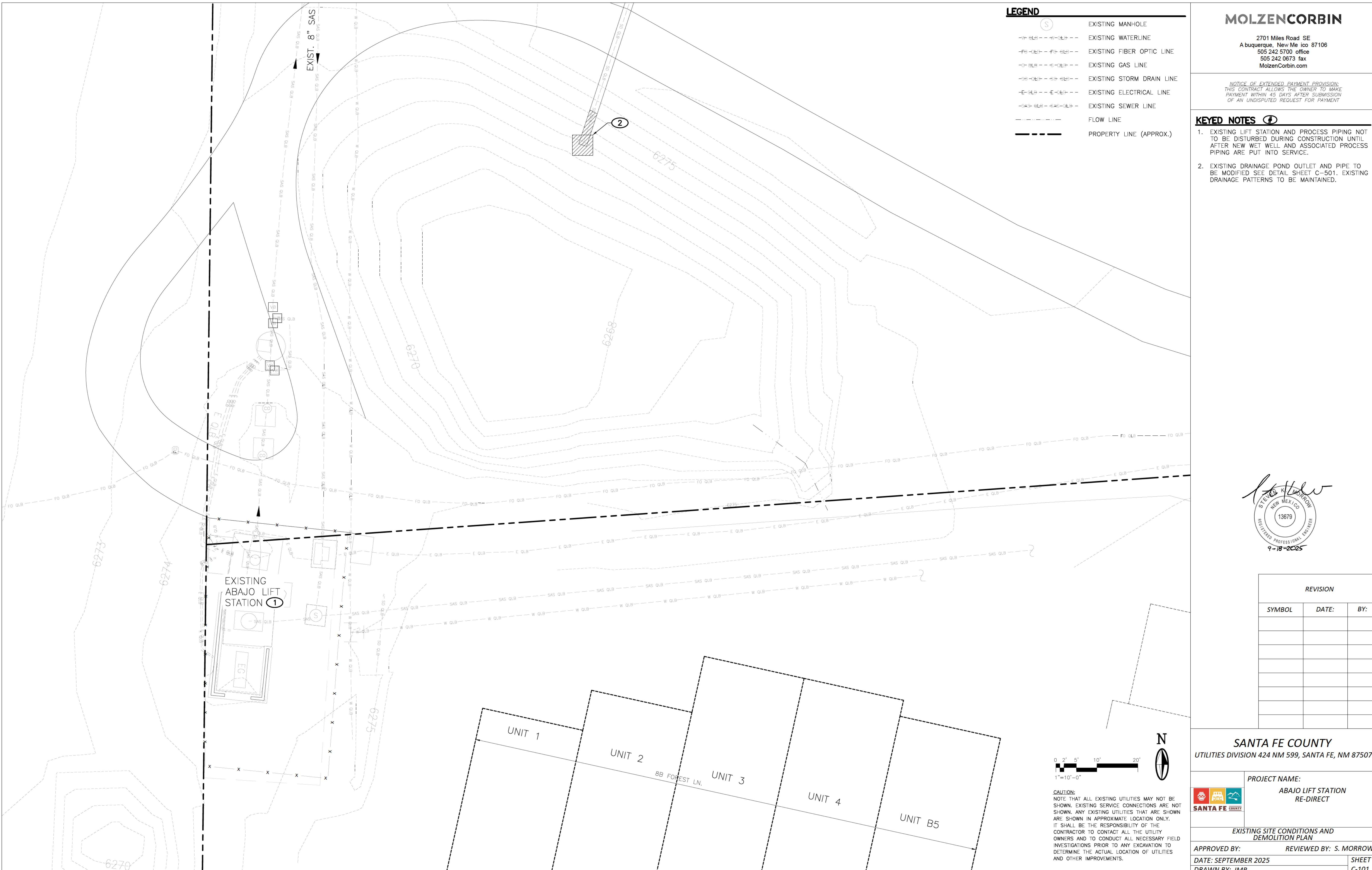
CONSTRUCTION NOTES II

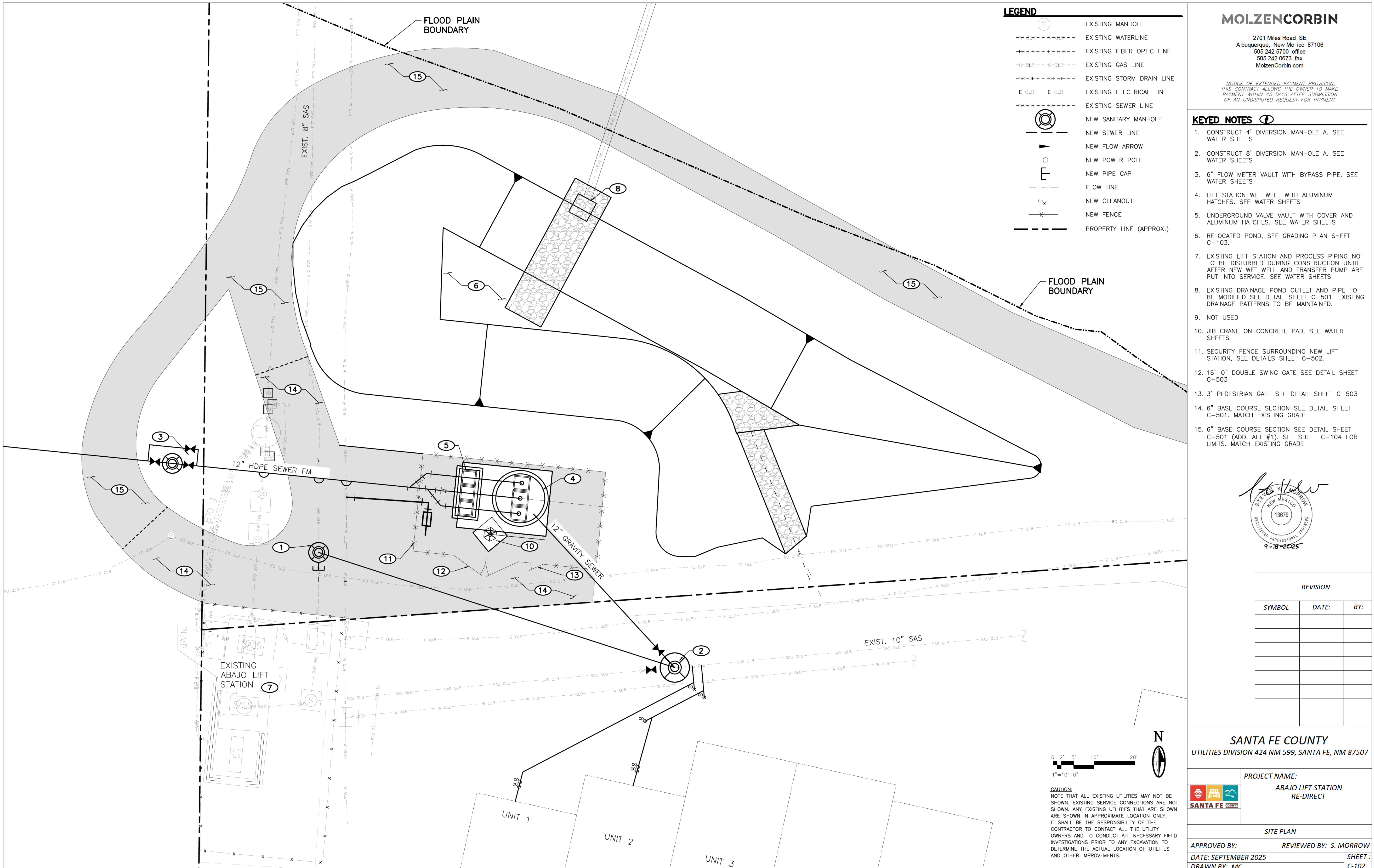
DOVED BY: *S. MORROW* REVIEWED BY: *S. MORROW*

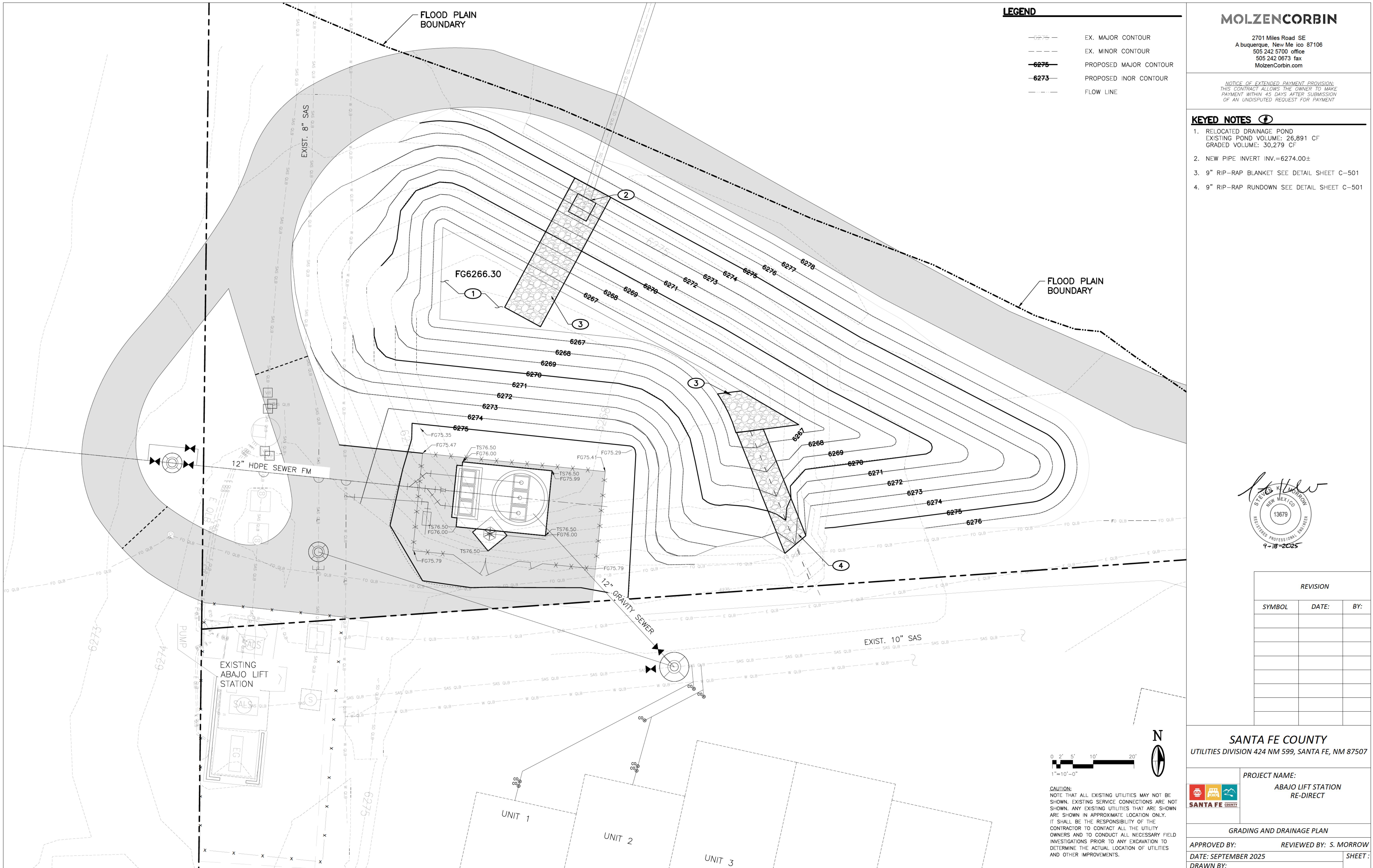
SEPTEMBER 2025 SHEET

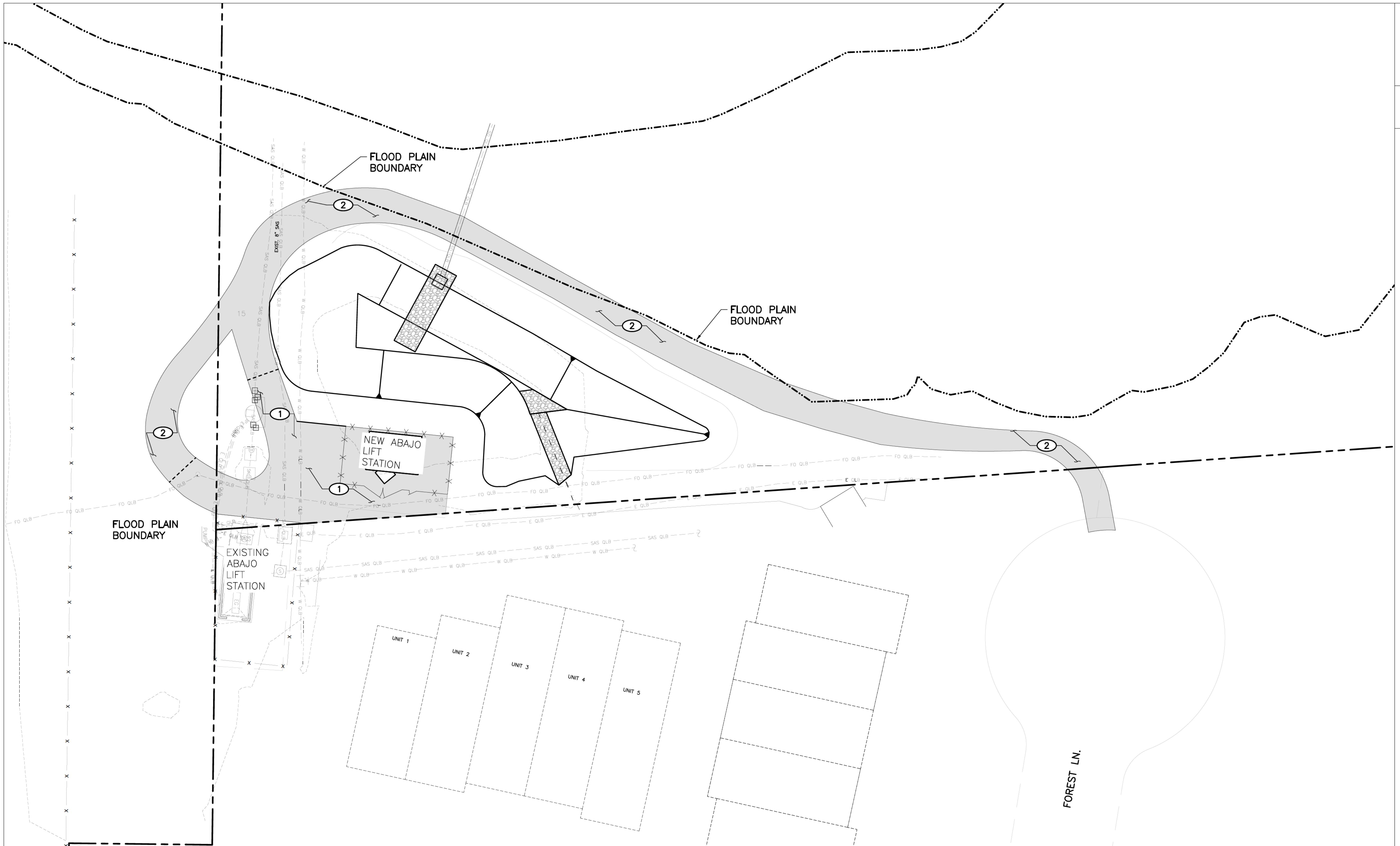
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Abuquerque, New Mexico 87106
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NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE
PAYMENT WITHIN 45 DAYS AFTER SUBMISSION
OF AN UNDISPUTED REQUEST FOR PAYMENT

KEYED NOTES

1. 6" BASE COURSE SECTION SEE DETAIL SHEET C-50X
2. 6" BASE COURSE SECTION SEE DETAIL SHEET C-50X (ADD. ALT #1).

REVISION

SANTA FE COUNTY

CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY.
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

	<p>PROJECT NAME:</p> <p><i>ABAJO LIFT STATION RE-DIRECT</i></p>
---	--

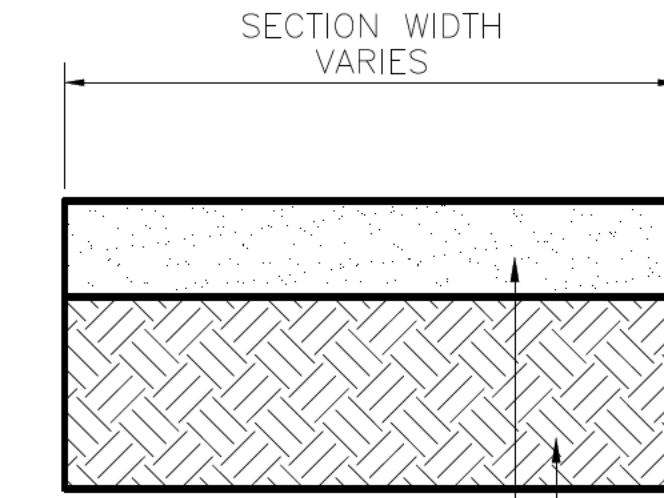
ADDITIONAL ALTERNATE #1 LIMITS

APPROVED BY:	REVIEWED BY: S. MORROW
DATE: SEPTEMBER 2025	SHEET :
DRAWN BY: MC	C-102

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

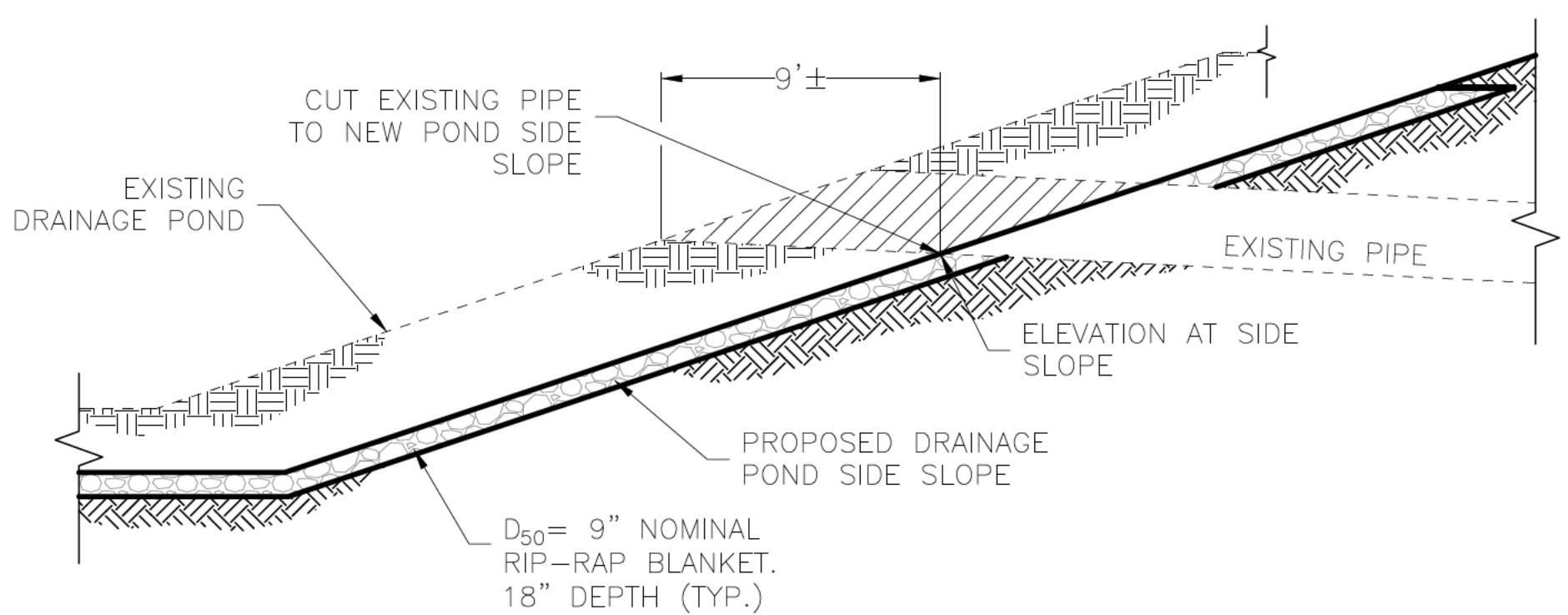
NOTICE OF EXTENDED PAYMENT PROVISION:
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6" BASE COURSE COMPACTED TO
AT LEAST 95% MIN. DENSITY,
ASTM D1557

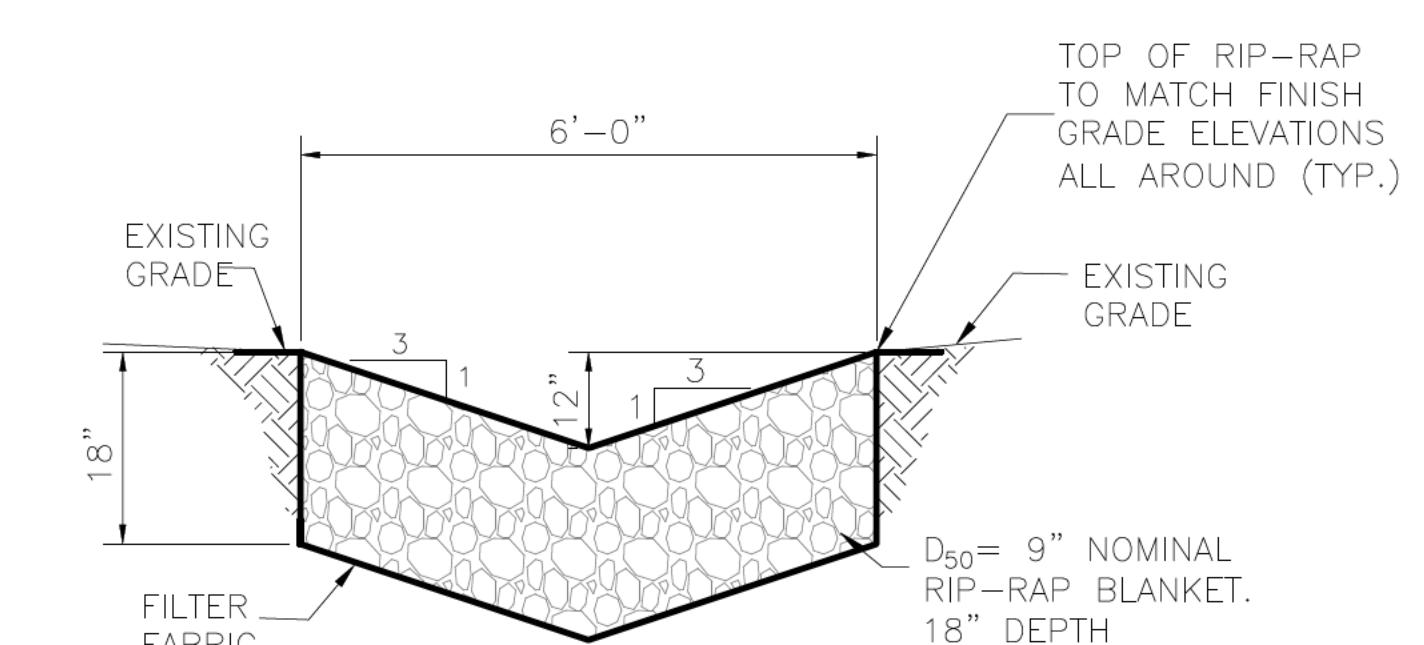
12" SUBGRADE COMPAKTED TO
AT LEAST 95% MIN. DENSITY
ASTM D1557

BASE COURSE SECTION



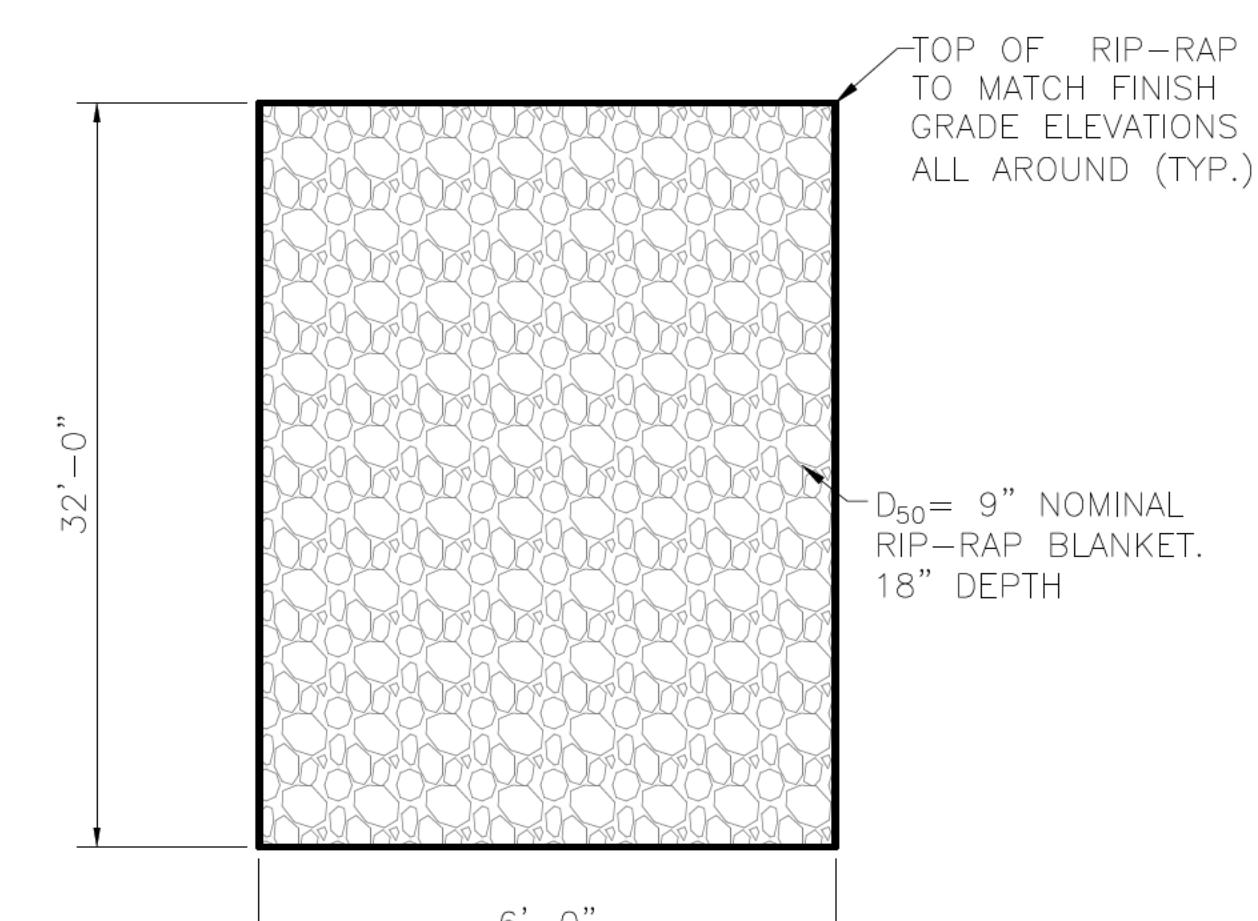
EXISTING PIPE REMOVAL PROFILE

SCALE: N.T.S.

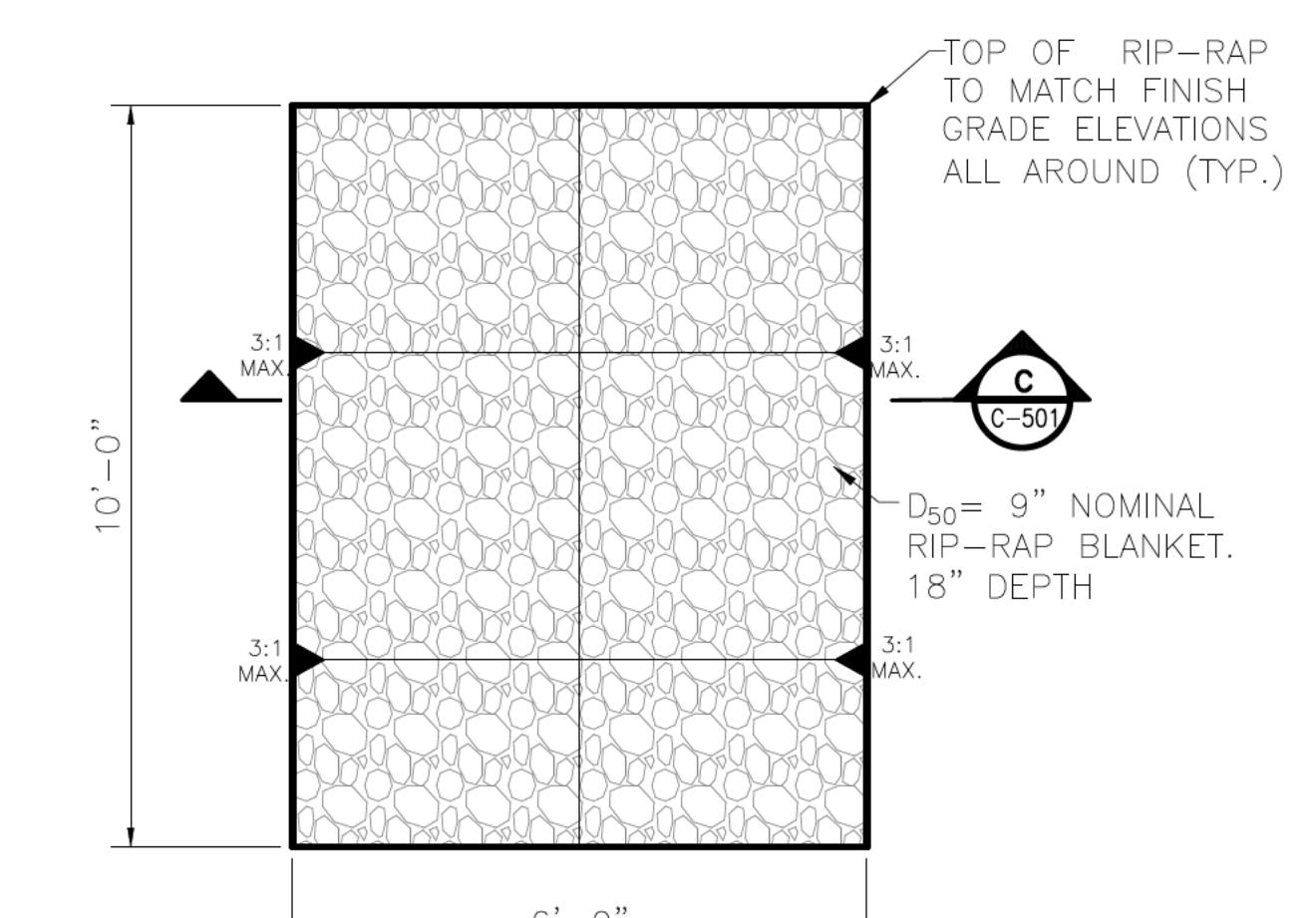


C RIP-RAP SECTION

C-501



RIP-RAP BLANKET



RIP-RAP SWALE

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507



JECT NAME:
*ABAJO LIFT STATION
RE-DIRECT*

11. **What is the primary purpose of the *Journal of Clinical Endocrinology and Metabolism*?**

MISCELLANEOUS

VEOUS DETAILS

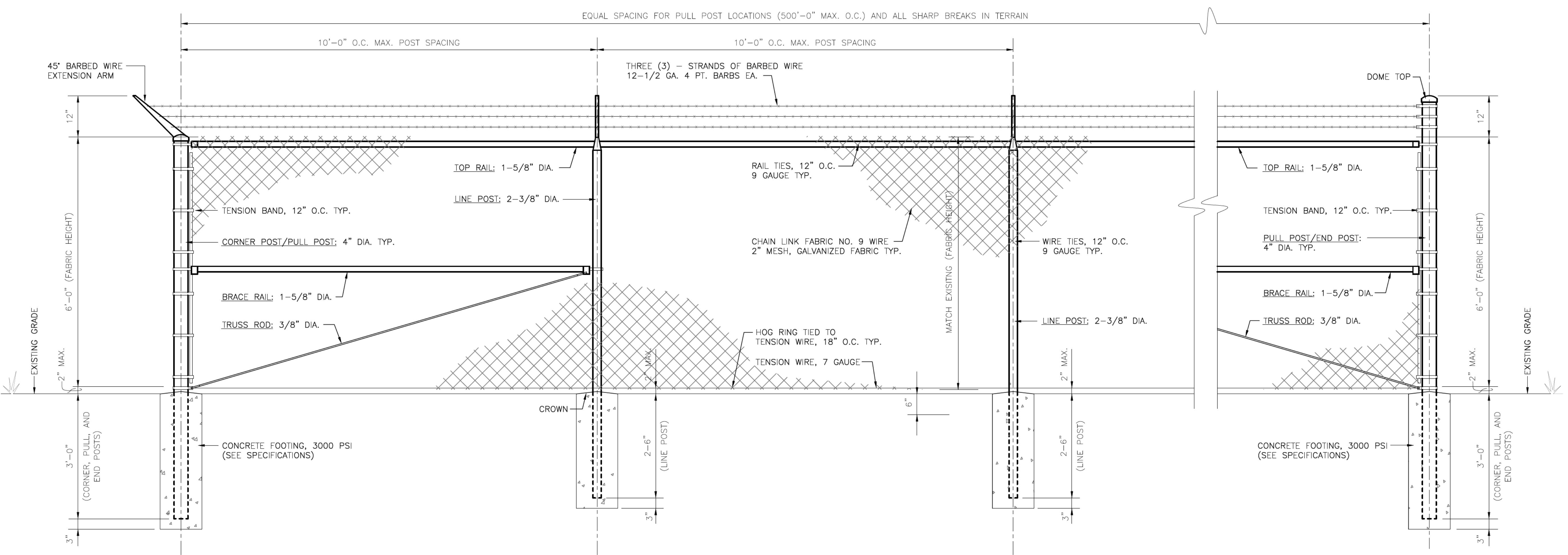
APPROVED BY:

REVIEWED BY: S. MORROW

DRAWN BY: MC

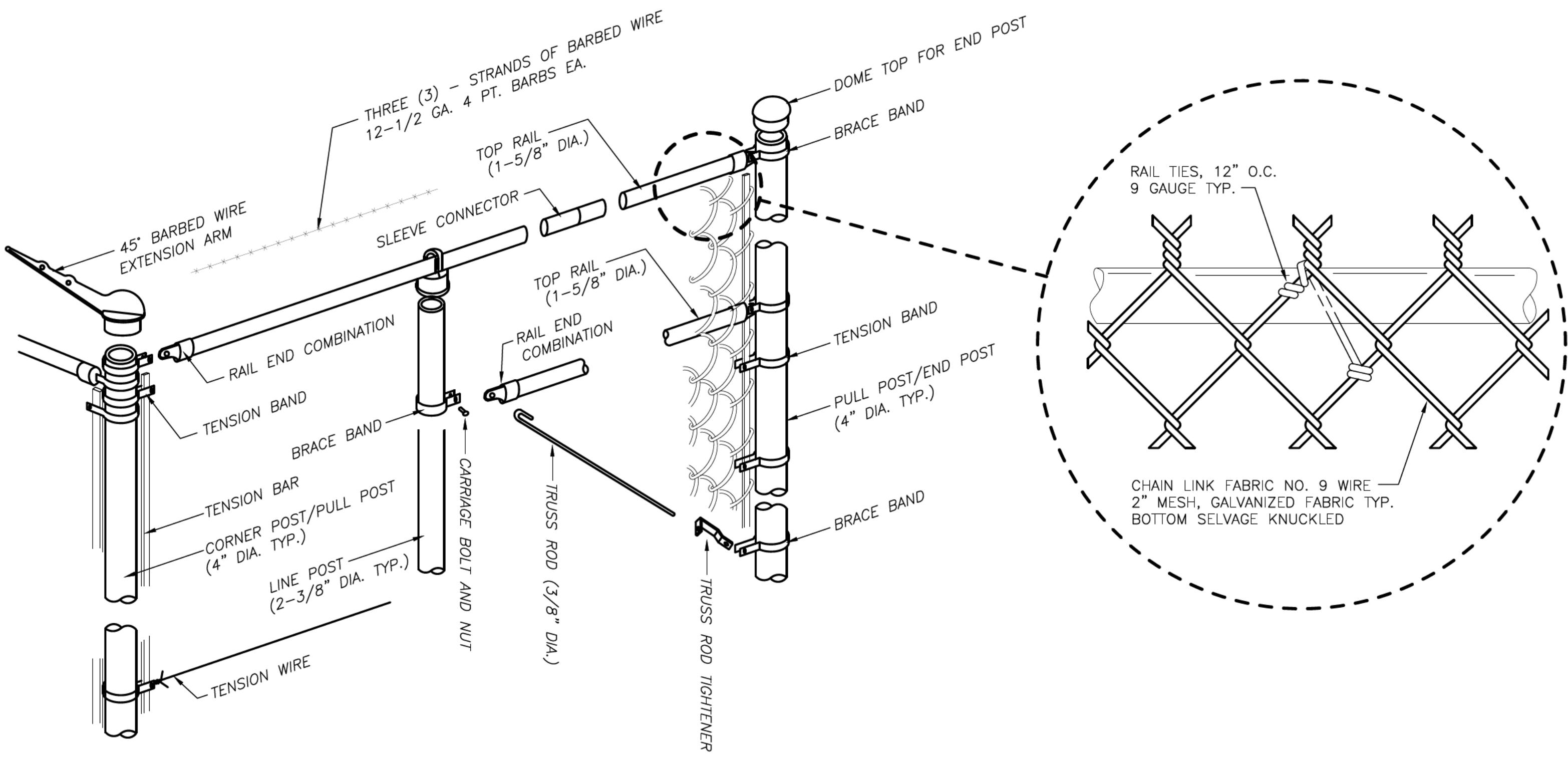
C-501

NOTICE OF EXTENDED PAYMENT PROVISION:
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TYPICAL FENCE SECTION

SCALE: 3/4"=1'-0"



TYPICAL FENCE COMPONENT SECTION

SCALE: NONE

FENCING GENERAL NOTES

1. TOP AND BOTTOM SELVAGES TO HAVE A TWISTED AND BARBED FINISH.
2. DIAMETER (O.D.) SHOWN HEREON ARE NOMINAL SIZES AS ESTABLISHED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE.
3. EXTENSION ARMS TO BE HOT-DIP GALVANIZED. LINE POST ARMS ARMS TO BE PRESSED STEEL, END AND CORNER POST ARMS TO BE MALLEABLE IRON, GATE POSTS TO HAVE A BALL TOP. EACH ARM TO CARRY 3 BARBED WIRES AT AN ANGLE OF 45°. THE TOP MOST BARBED WIRE TO BE APPROXIMATELY 12" ABOVE THE FABRIC AND APPROXIMATELY 12" IN OR CUT FROM FENCE LINE, AS DIRECTED BY THE ENGINEER. ALL BARBED WIRES TO BE SECURELY FASTENED IN SLOTS BY HEAVY WIRE PINS. ARMS HAVING PROJECTIONS TO BE BENT DOWN OVER BARBED WIRE MAY NOT BE USED.

STEVEN K. MORROW
NEW MEXICO
13679
REGISTERED PROFESSIONAL ENGINEER
9-18-2025

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507



JECT NAME: *ABAJO LIFT STATION
RE-DIRECT*

FENCE AND GATE DETAILS

PROVED BY: *S. MORROW* REVIEWED BY: *S. MORROW*

TF: AUGUST 2025

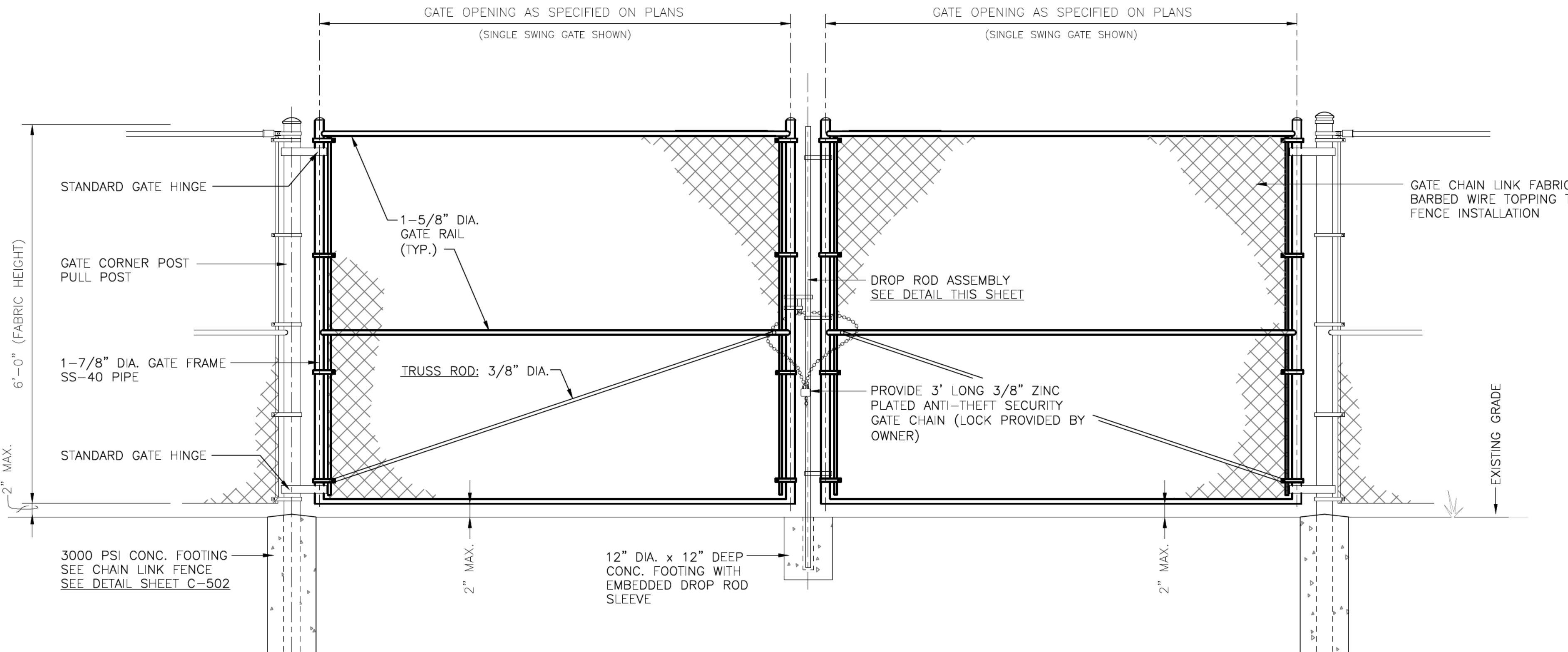
PAWN BY:

C-502

MOLZENCORBIN

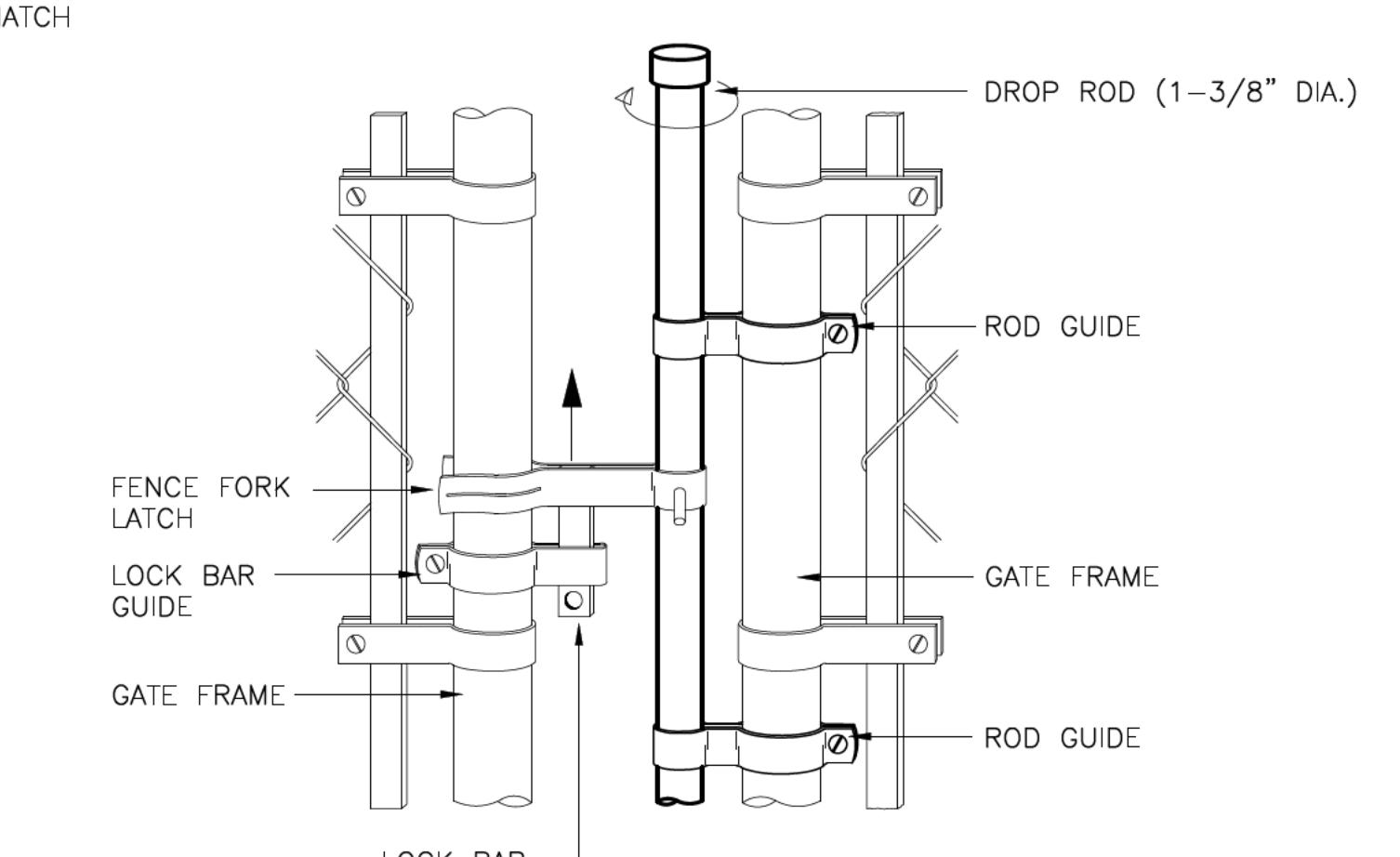
2701 Miles Road SE
Abuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION:
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STANDARD MANUAL DOUBLE SWING GATE – DETAIL

SCALE: NONE



DOUBLE SWING GATE DROP ROD ASSEMBLY - DETAIL

SCALE: NONE

A circular registration stamp for a professional engineer. The outer ring contains the text "STEVEN K. MORROW" at the top and "NEW MEXICO" at the bottom. The inner circle contains the number "13679". Below the stamp, the date "9-18-2025" is handwritten.

REVISION

SANTA FE COUNTY

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507



ABAJO LIFT STATION RE-DIRECT

FENCE AND GATE DETAILS

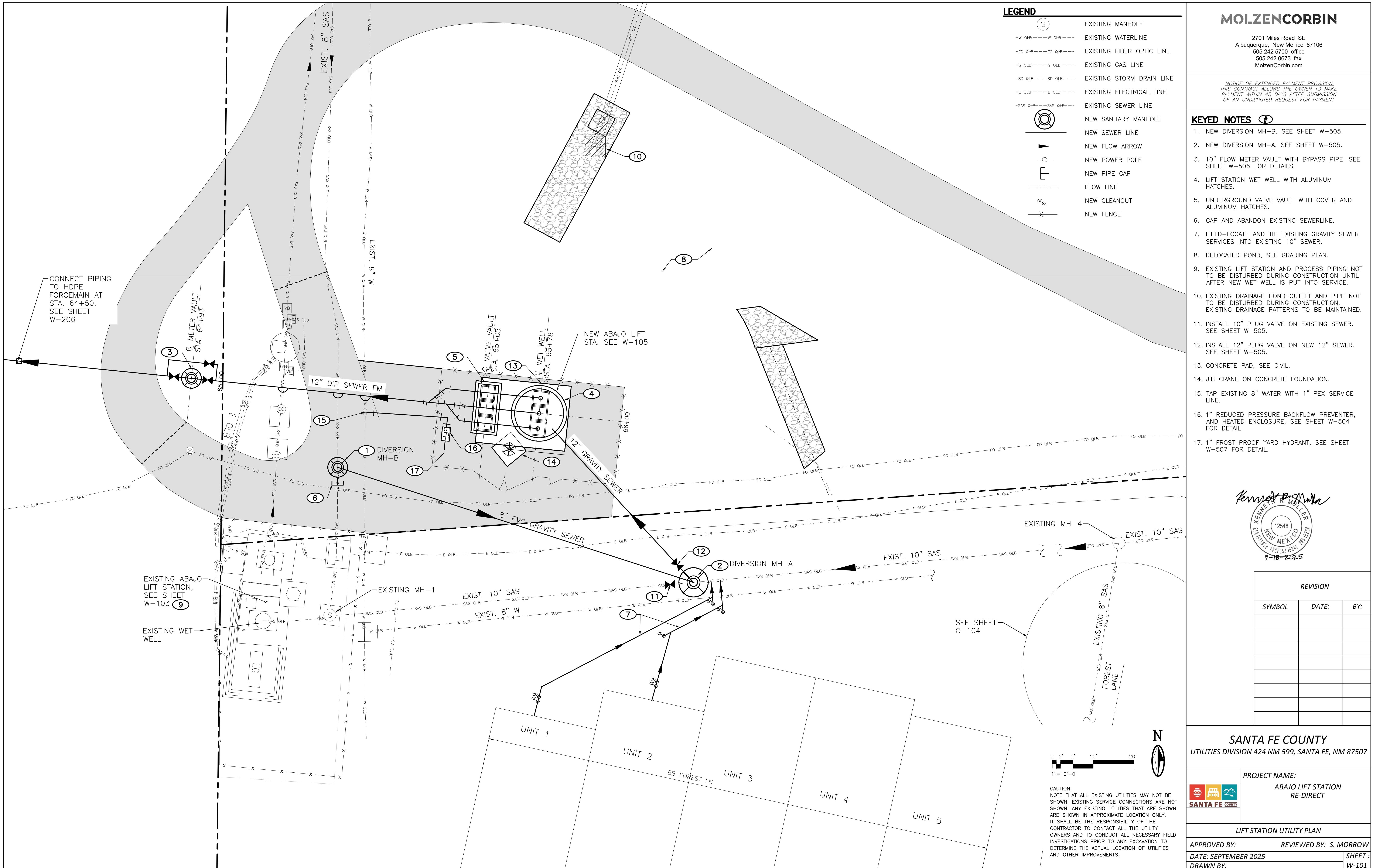
APPROVED BY: *S. MORROW* REVIEWED BY: *S. MORROW*

DATE: AUGUST 2025

SHEET :

DRAWN BY:

C-503



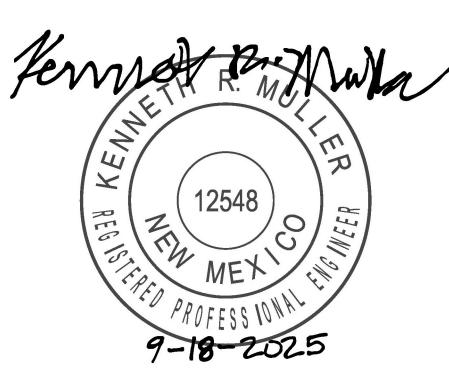
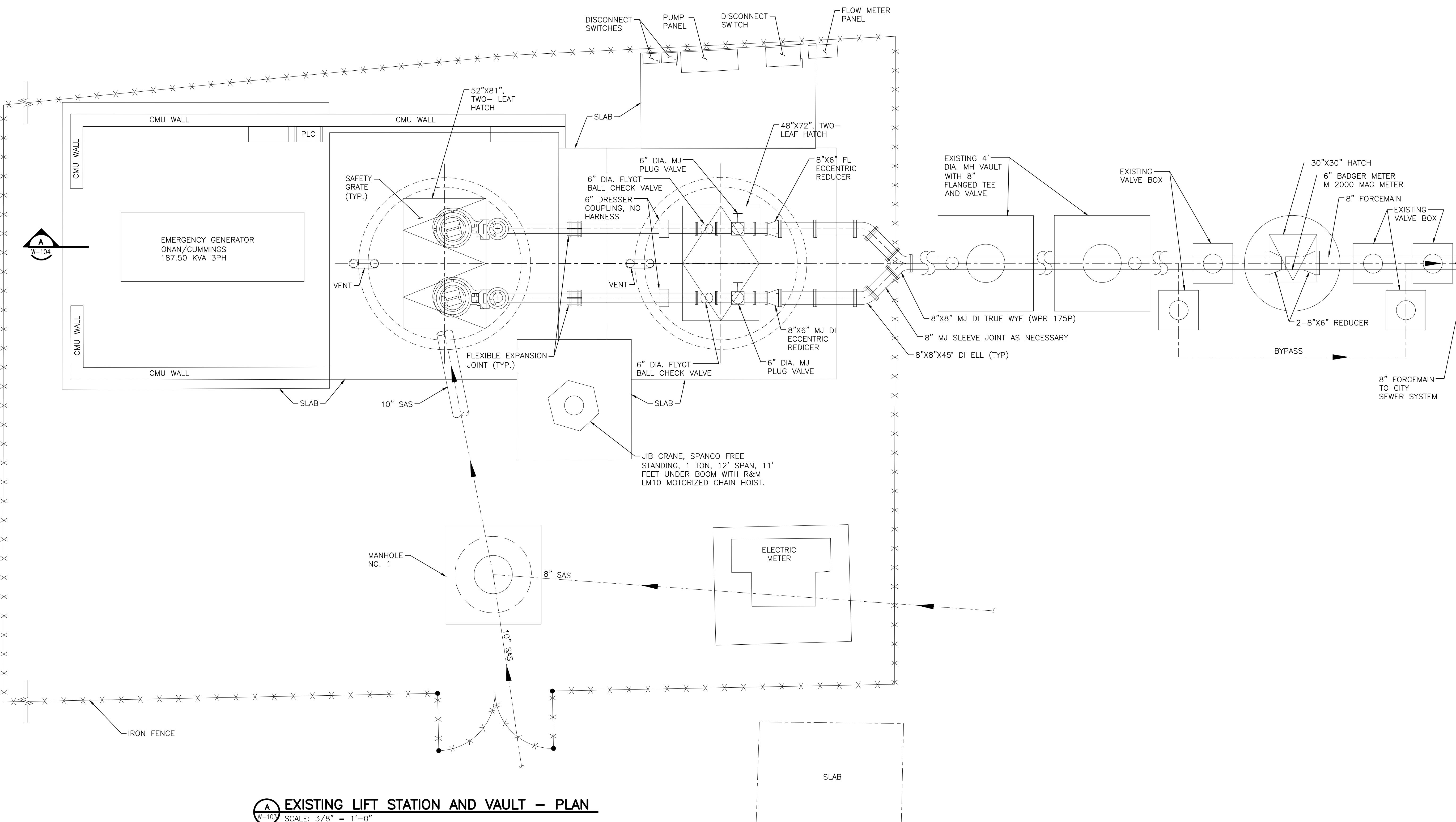
MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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

GENERAL NOTES

1. THIS SHEET IS SHOWN FOR REFERENCE.
2. NO NEW WORK IS SHOWN ON THIS SHEET.



REVISION

SYMBOL

DATE:

BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:	
 ABAJO LIFT STATION RE-DIRECT	SANTA FE COUNTY

EXISTING LIFT STATION MODIFICATIONS - PLAN

APPROVED BY: REVIEWED BY: S. MORROW

DATE: SEPTEMBER 2025 SHEET:

DRAWN BY: W-103

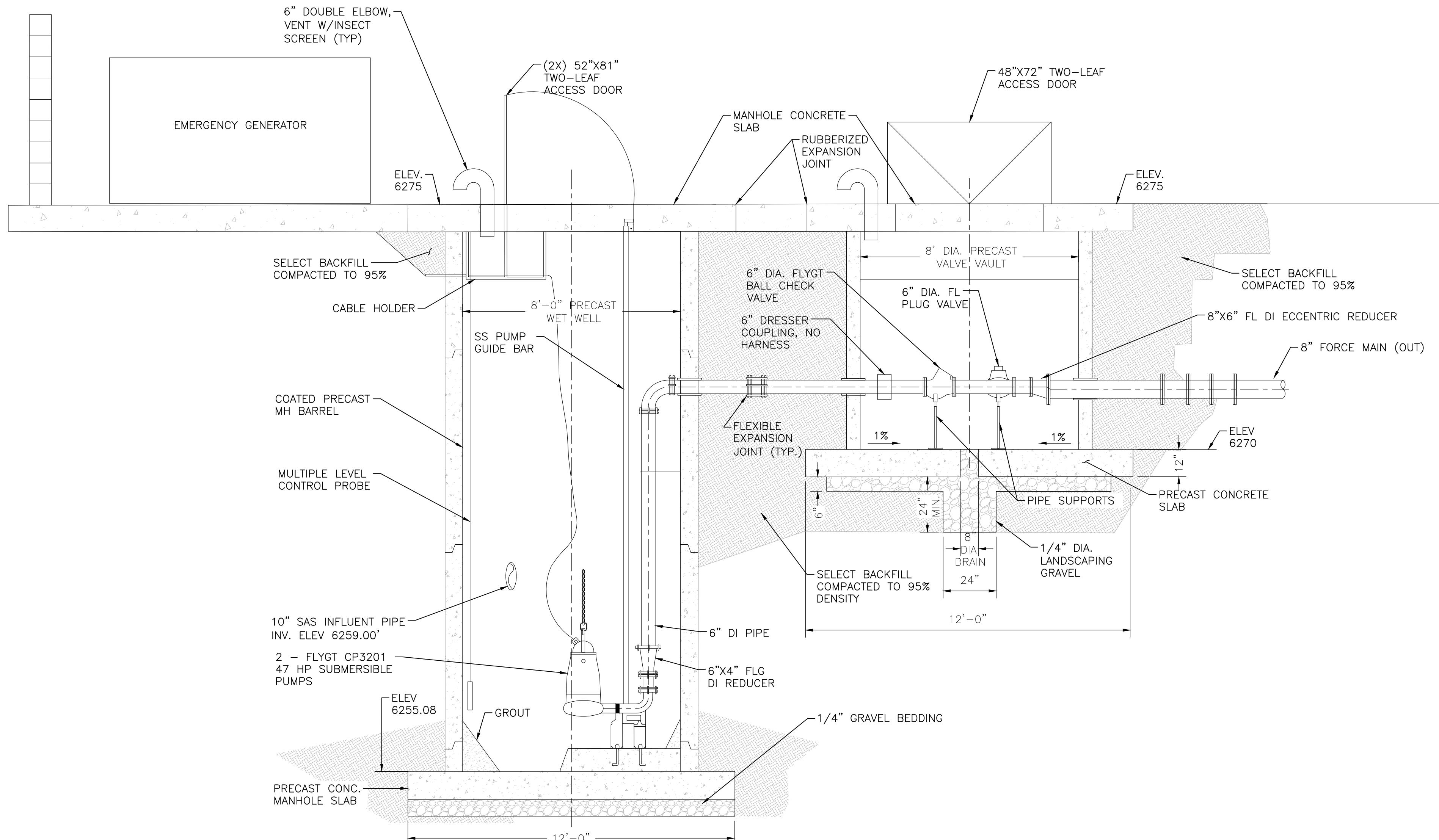
MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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GENERAL NOTES

1. THIS SHEET IS SHOWN FOR REFERENCE.
2. NO NEW WORK IS SHOWN ON THIS SHEET.



EXISTING ABAJO LIFT STATION AND VAULT - SECTION

W-104 SCALE: 3/8" = 1'-0"

PROJECT NAME:		
 ABAJO LIFT STATION RE-DIRECT SANTA FE COUNTY		

EXISTING LIFT STATION MODIFICATIONS - SECTION

APPROVED BY: REVIEWED BY: S. MORROW

DATE: SEPTEMBER 2025

DRAWN BY:

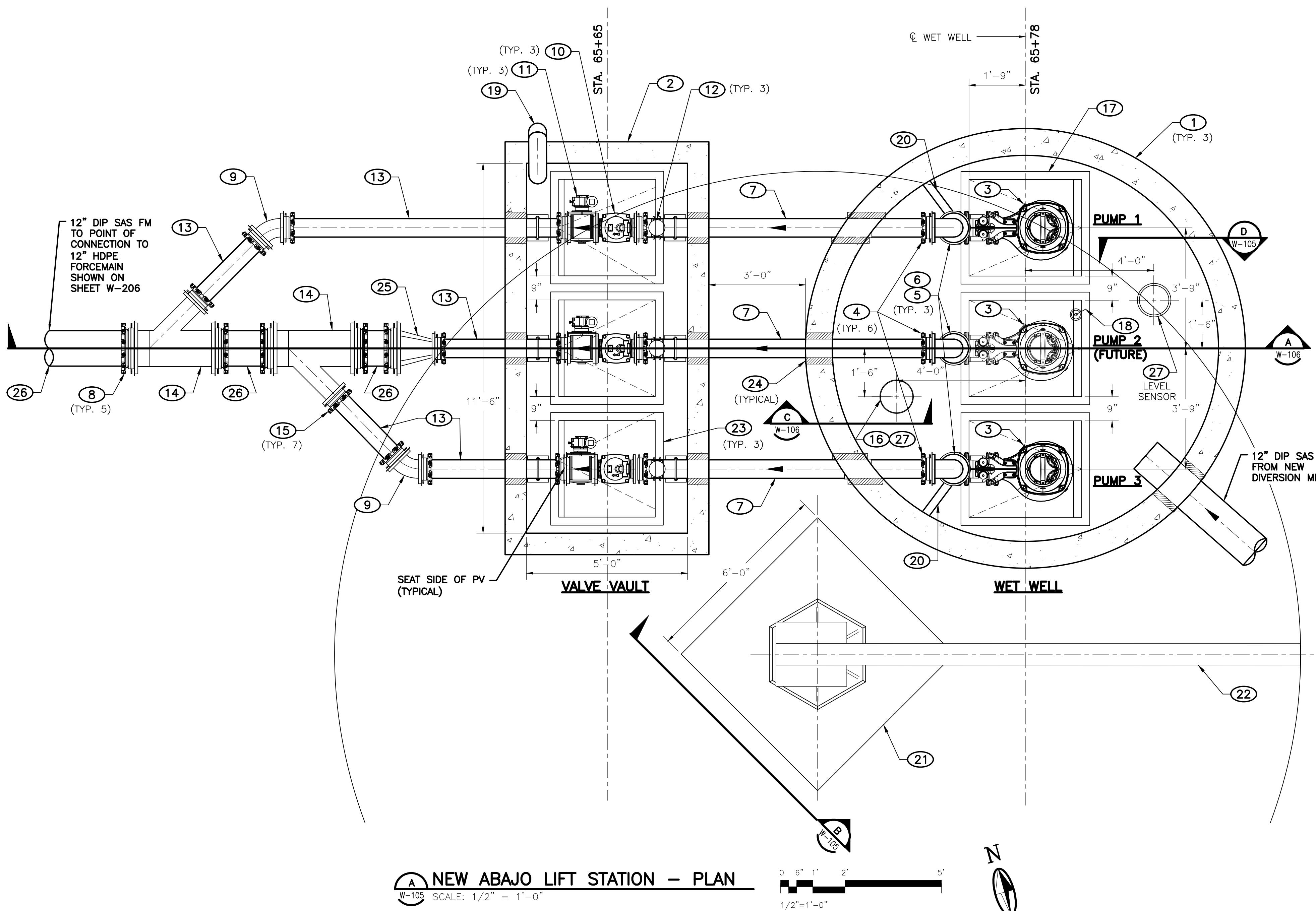
SHEET: W-104

0 6" 1" 2" 4" 8"
3/8"=1'-0"

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION:
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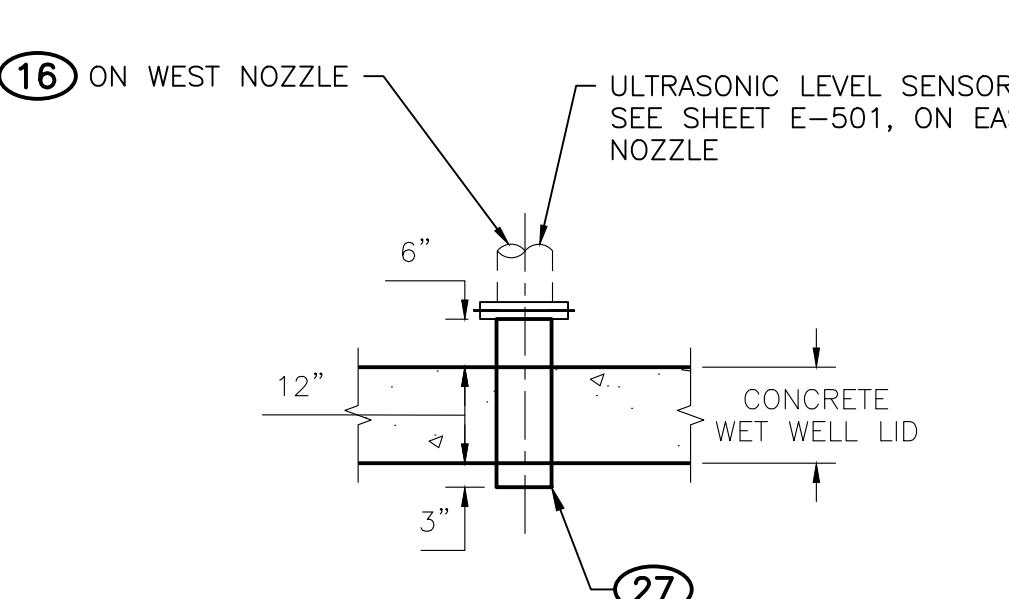
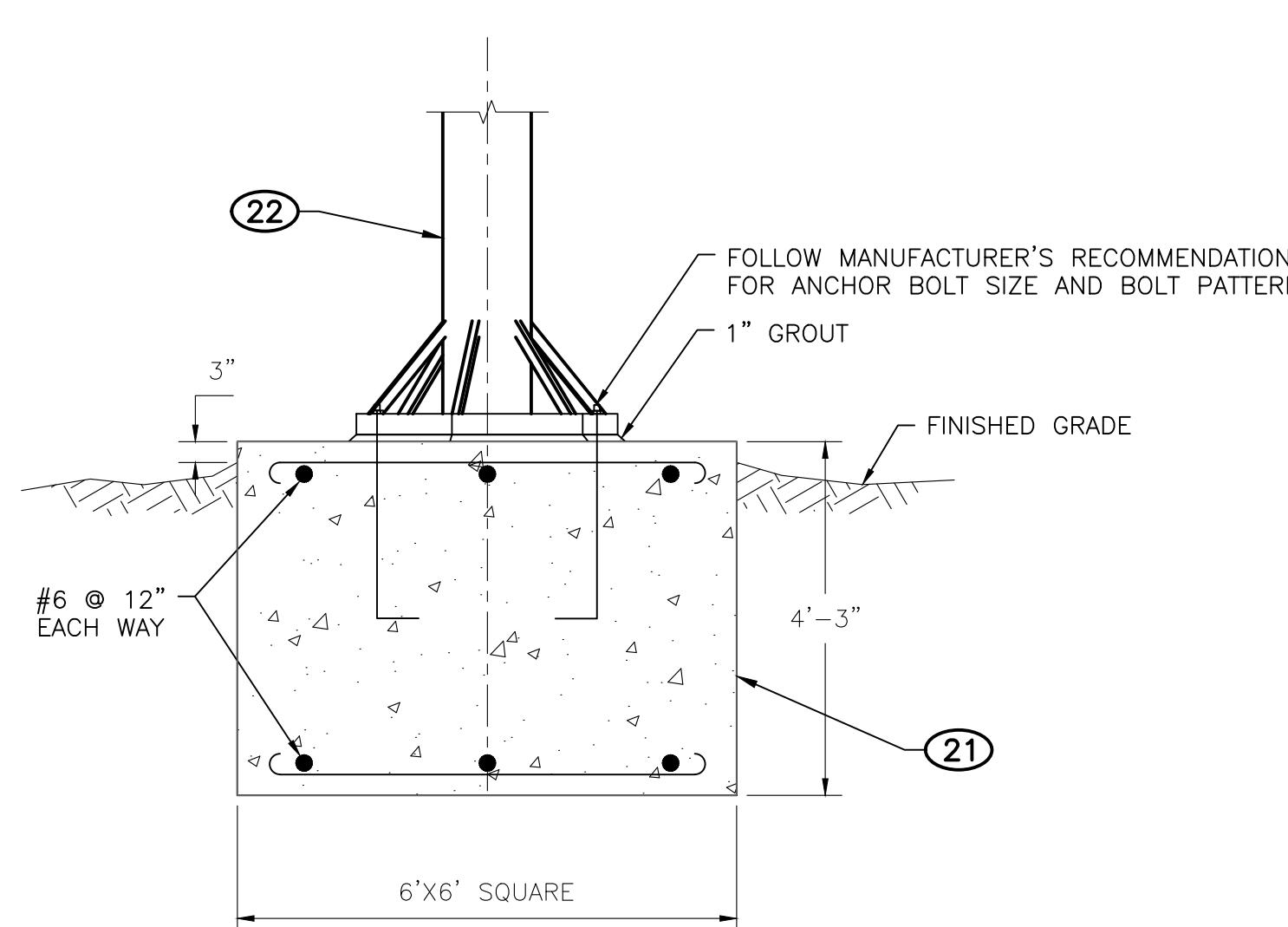


GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL PUMP AND HARDWARE DIMENSIONS AND PLACEMENT OF HARDWARE WITH PUMP MANUFACTURER.
2. REFER TO SECTION 09 97 01 - INDUSTRIAL COATINGS FOR PIPE, VALVE, FITTINGS, AND CONCRETE CORROSION PROTECTION REQUIREMENTS.
3. RESTRAIN ALL BURIED MJ JOINTS.
4. SEE SHEET W-106 FOR SECTION OF NEW ABajo LIFT STATION.
5. SEE SHEET E-501 FOR ELECTRICAL DETAILS.

KEYED NOTES

- 1 12'-0" ID PRECAST CONCRETE WET WELL AND BASE w/ CONCRETE LID & FABRICATED METAL ACCESS COVER SYSTEM. SEE SECTION 33 05 63 AND SHEET S-101 FOR DETAILS.
- 2 5'x10' ID PRECAST CONCRETE VALVE VAULT w/ PRECAST CONCRETE LID & FABRICATED METAL ACCESS COVER SYSTEM. SEE SECTION 33 05 61.01 FOR DETAILS.
- 3 SUBMERSIBLE WASTEWATER PUMP, REFER TO SPECIFICATIONS SECTION 43 25 13 - SUBMERSIBLE SEWAGE PUMPS FOR REQUIREMENTS WITH DISCHARGE ELBOW, SS GUIDE BARS AND GRIP EYE PUMP LIFTING ASSEMBLY. INSTALL TWO PUMPS INITIALLY. CENTER PUMP IS FUTURE.
- 4 6" MEGA-FLANGE® FLANGED JOINT RESTRAINT (TYPICAL).
- 5 6" FL-PE DIP RISER x 20'-0"± LONG.
- 6 6" FL DIP 90° BEND.
- 7 6" PE DIP SPOOL x 9'-0"± LONG.
- 8 12" MEGA-LUG® MJ JOINT RESTRAINT (TYPICAL) - ALL BURIED FITTINGS.
- 9 6" MJ 45° BEND.
- 10 6" FL BALL CHECK VALVE. SEE SECTION 40 27 02.12 - BALL CHECK VALVES FOR DETAILS.
- 11 6" FL PLUG VALVE w/ WORMGEAR ACTUATOR & 2" AWWA OPERATING NUT. INSTALL VALVE WITH SHAFT HORIZONTAL AND POSITION ACTUATOR WITH PLUG IN TOP OF PIPE WHEN VALVE IS OPEN. SEE SECTION 40 27 02.01 - PLUG VALVES FOR DETAILS.
- 12 PRESSURE GAUGE ASSEMBLY (0-60 PSIG), DIAL FACING UP. SEE DETAIL SHEET W-503.
- 13 6" PE DIP SPOOL.
- 14 12" X 6" MJ WYE.
- 15 6" MEGA-LUG® MJ JOINT RESTRAINT (TYPICAL) - ALL BURIED FITTINGS.
- 16 ODOR CONTROL FILTER, ENGINEERED PUMP SYSTEMS, LTD., SEE DETAIL SHEET W-106.
- 17 WET WELL HINGED ACCESS HATCH, 3 REQUIRED, EACH WITH CLEAR OPENING, 42" X 36", SINGLE LEAF, ANGLE FRAME AND SAFETY GRATE, SEE SPECIFICATION 43 25 13.
- 18 LEVEL SWITCH FLOATS ATTACHED TO 7'Lx3"X3.5" C TYPE MEMBER BRACKET. SEE SHEET W02-301 FOR SETTLING HEIGHTS. SEE SECTION 43 25 13 FOR DETAILS.
- 19 6" GOOSENECK VENT WITH INSECT SCREEN.
- 20 BRACKET TYPE B, TYP. 3, SEE DETAIL SHEET W-503.
- 21 JIB CRANE FOUNDATION, 6'x6'x4'-3" CONCRETE FOOTING WITH #6 REBAR TOP AND BOTTOM 12" ON CENTER EACH WAY. SEE SECTION B, THIS SHEET.
- 22 ONE TON FREE-STANDING MOTORIZED JIB CRANE WITH 15' SPAN. SEE SECTION B THIS SHEET AND SPECIFICATION 41 22 00.
- 23 VALVE VAULT HINGED ACCESS HATCH, 3 REQUIRED, EACH WITH CLEAR OPENING 36" X 36", ONE-LEAF, ANGLE FRAME AND SAFETY GRATE, SEE SPECIFICATION 43 25 13.
- 24 CORE DRILL HOLE IN MANHOLE WALL FOR PIPES, SEAL AROUND PIPE WITH MECHANICAL SEALS.
- 25 12" X 6" MJ REDUCER.
- 26 12" PE DIP SPOOL.
- 27 EMBEDDED FLANGED NOZZLE, 6" SCH. 40 TYPE 304 STAINLESS STEEL, FLxPE, SEE DETAIL THIS SHEET



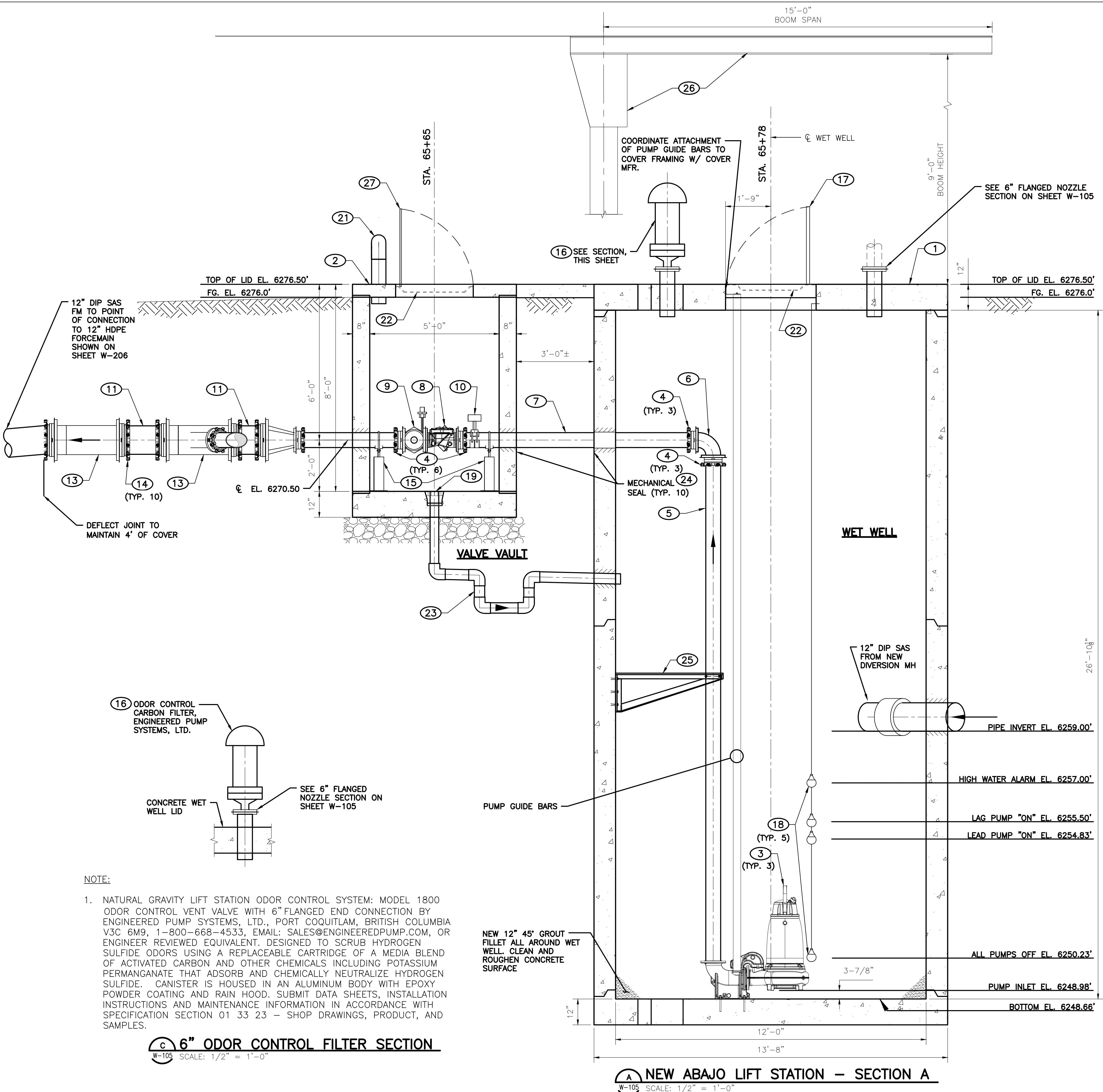
REVISION

SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT
SANTA FE COUNTY

NEW ABajo LIFT STATION PLAN
APPROVED BY: REVIEWED BY: S. MORROW
DATE: AUGUST 2025 SHEET:
DRAWN BY: JJJ W-105



GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL PUMP AND HARDWARE DIMENSIONS AND PLACEMENT OF HARDWARE WITH PUMP MANUFACTURER.
2. REFER TO SECTION 09 97 01 – INDUSTRIAL COATINGS FOR PIPE, VALVE, FITTINGS, AND CONCRETE CORROSION PROTECTION REQUIREMENTS.
3. SEE SHEET W-105 FOR PLAN OF NEW ABAJO LIFT STATION.
4. SEE SHEET E-501 FOR ELECTRICAL DETAILS.

KEYED NOTES

- 1 12'-0" ID PRECAST CONCRETE WET WELL AND BASE w/ CONCRETE LID & FABRICATED METAL ACCESS COVER SYSTEM. SEE SECTION 33 05 63 AND SHEET S-XXX FOR DETAILS.
- 2 5'x10' ID PRECAST CONCRETE VALVE VAULT w/ PRECAST CONCRETE LID & FABRICATED METAL ACCESS COVER SYSTEM. SEE SECTION 33 05 61.01 FOR DETAILS.
- 3 SUBMERSIBLE WASTEWATER PUMP REFER TO SPECIFICATIONS SECTION 43 25 13 – SUBMERSIBLE SEWAGE PUMPS FOR REQUIREMENTS WITH DISCHARGE ELBOW, SS GUIDE BARS AND GRIP EYE PUMP LIFTING ASSEMBLY. INSTALL TWO PUMPS INITIALLY. CENTER PUMP IS FUTURE.
- 4 6" MEGA-FLANGE® FLANGED JOINT RESTRAINT (TYPICAL).
- 5 6" FL-PE DIP RISER x 20'-2"± LONG.
- 6 6" FL DIP 90° BEND.
- 7 6" PE DIP SPOOL x 9'-11"± LONG.
- 8 6" FL BALL CHECK VALVE. SEE SECTION 40 27 02.12 – BALL CHECK VALVES FOR DETAILS.
- 9 6" FL PLUG VALVE w/ WORMGEAR ACTUATOR & 2" AWWA OPERATING NUT. SEE SECTION 40 27 02.01 – PLUG VALVES FOR DETAILS.
- 10 PRESSURE GAUGE ASSEMBLY (0-60 PSIG), DIAL FACING UP. SEE DETAIL SHEET W-503.
- 11 6" PE DIP SPOOL.
- 12 NOT USED.
- 13 12" X 6" MJ WYE.
- 14 6" MEGA-LUG® MJ JOINT RESTRAINT (TYPICAL) – ALL BURIED FITTINGS.
- 15 ADJUSTABLE PIPE SUPPORT. SEE DETAIL SHEET W-503.
- 16 ODOR CONTROL FILTER, ENGINEERED PUMP SYSTEMS, LTD. SEE DETAIL THIS SHEET.
- 17 WET WELL HINGED ACCESS HATCH, 3 REQUIRED, EACH WITH CLEAR OPENING, 42" X 36", SINGLE LEAF, ANGLE FRAME AND SAFETY GRATE, SEE SPECIFICATION 43 25 13.
- 18 LEVEL FLOAT SWITCHES, SEE SHEET E-501.
- 19 4" PVC FLOOR DRAIN WITH THREADED GRATE INSERT.
- 20 NOT USED.
- 21 6" GOOSENECK VENT WITH INSECT SCREEN.
- 22 SAFETY GRATE.
- 23 4" SCH. 80 PVC HUB & SPIGOT DRAIN w/ GRATED FLOOR DRAIN @ 2.0% SLOPE TO WET WELL.
- 24 CORE DRILL HOLE IN MH WALL FOR PIPES, SEAL AROUND PIPE WITH MECHANICAL SEALS.
- 25 BRACKET TYPE B, TYP. OF 3, SEE DETAIL SHEET W-503.
- 26 ONE TON FREE-STANDING MOTORIZED JIB CRANE WITH 15' SPAN. SEE SPECIFICATION 41 22 00.
- 27 VALVE VAULT HINGED ACCESS HATCH 3 REQUIRED, CLEAR OPENING 36" X 36", ONE-LEAF, ANGLE FRAME AND SAFETY GRATE.

MOLZENCORBIN

2701 Miles Road SE
Abuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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

A circular stamp with the following text:
KENNETH R. MULLER
12548
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
9-19-2005

REVISION

SANTA FE COUNTY

SANTA FE COUNTY
DIVISION 424 NM 599, SANTA FE, NM 87502

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

NEW ARABIC LIFT STATION SECTION

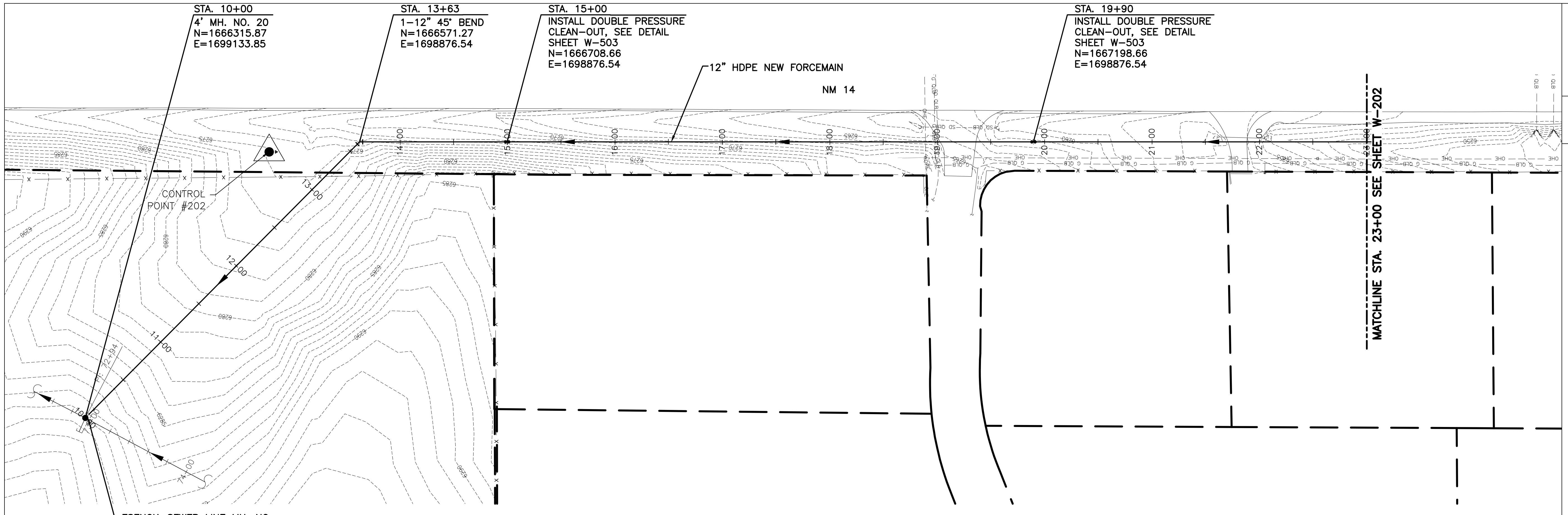
NEW AND EDITED STATION SECTION

PTFMBR 2025

MORROW

BY: JJG

W-106



MOLZENCORBIN

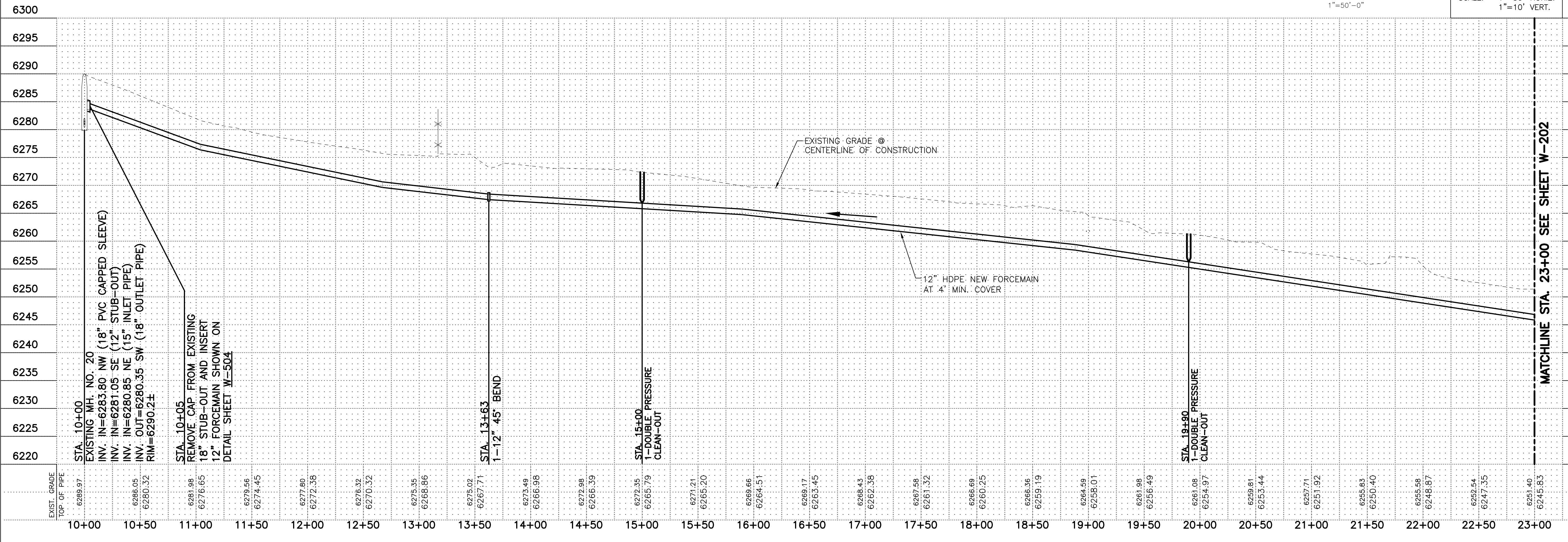
2701 Miles Road SE
Abuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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GENERAL NOTES

1. TRENCH BEDDING AND BACKFILL: REFER TO SECTION 31 23 33 – TRENCHING AND BACKFILLING FOR BEDDING AND INITIAL BACKFILL REQUIREMENTS BASED ON BURY DEPTH. SEE DETAIL SHEET W-501.
2. RIGHT-OF-WAY LINES ARE APPROXIMATE.

CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY.
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.



A circular stamp with the following text:

KENNETH R. MULLER
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
12548
9-18-2025

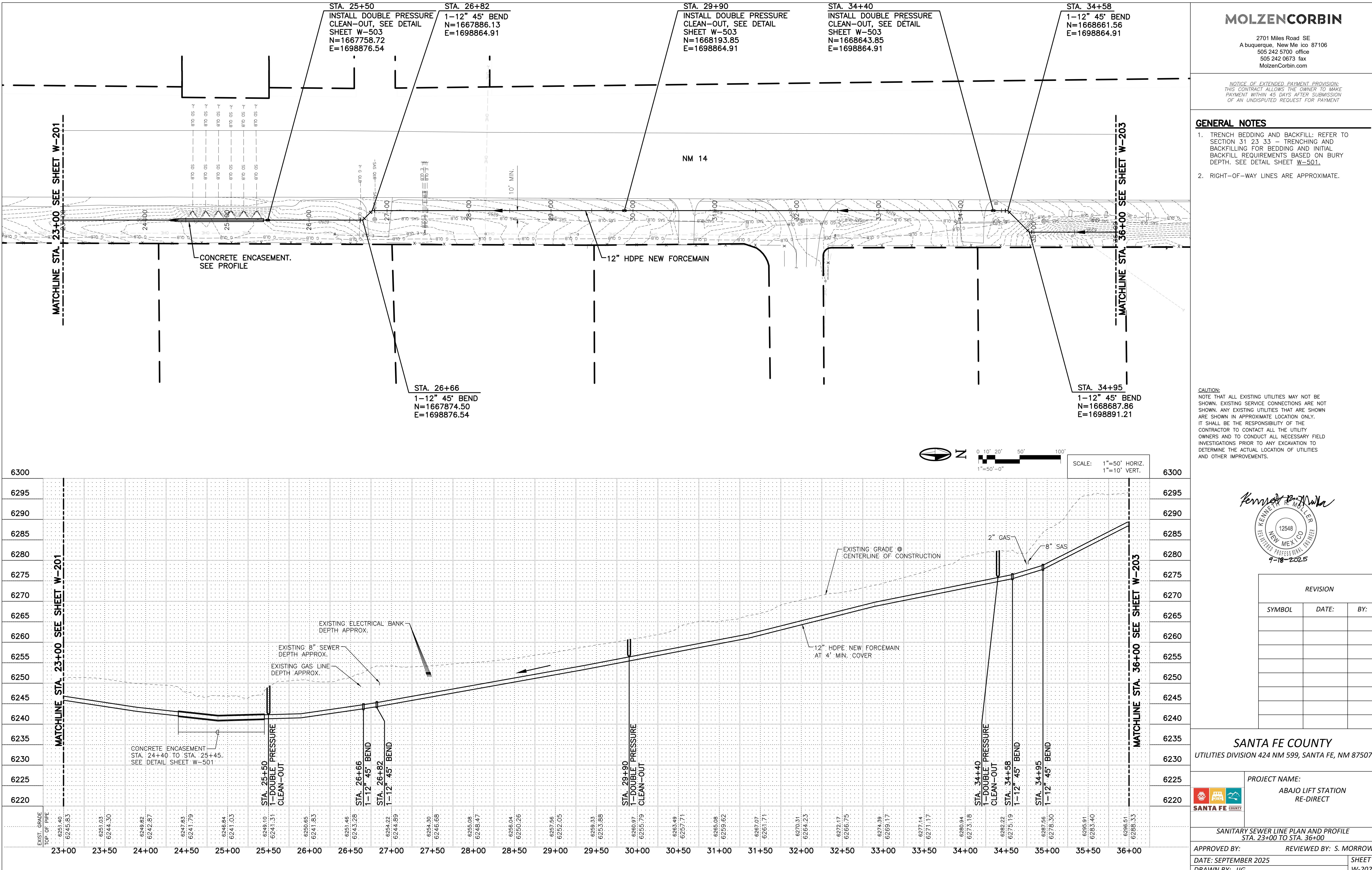
SANTA FE COUNTY

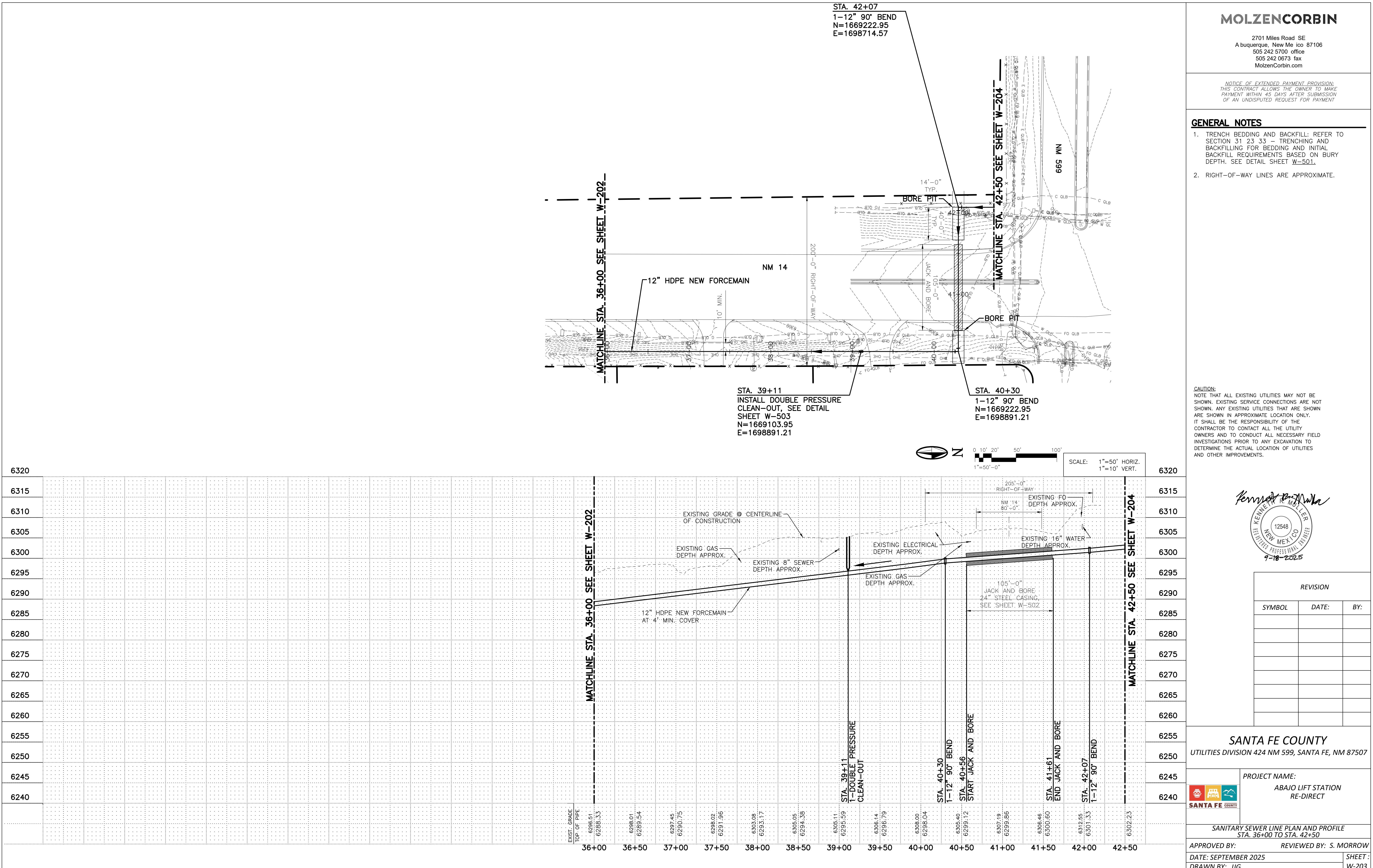
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87501

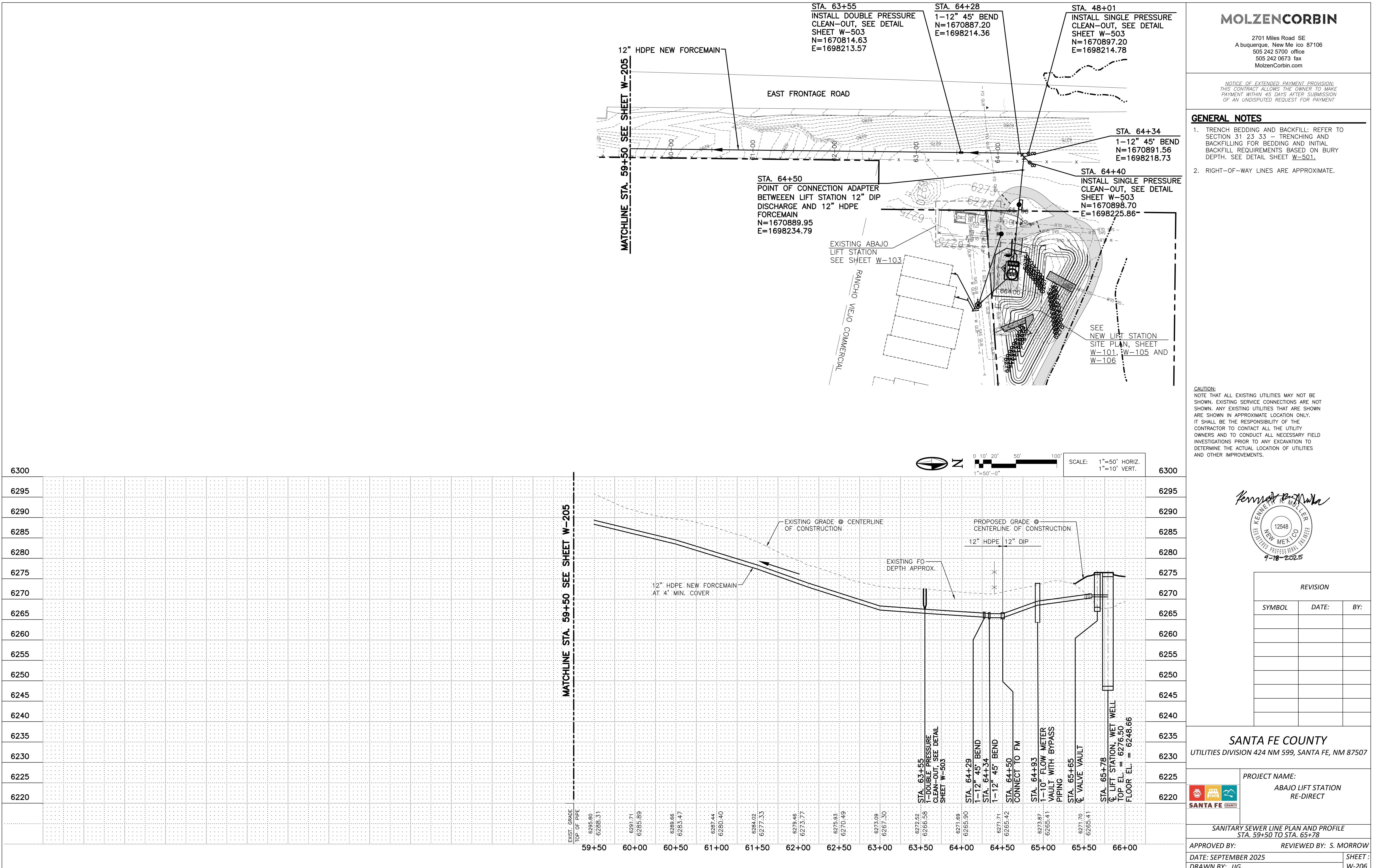
 SANTA FE COUNTY	PROJECT NAME: <i>ABAJO LIFT STATION RE-DIRECT</i>
---	---

**SANITARY SEWER LINE PLAN AND PROFILE
STA. 10+00 TO STA. 23+00**

APPROVED BY: S. MORSE REVIEWED BY: S. MORSE
DATE: SEPTEMBER 2025 DRAWN BY: IJC SHEET 1 OF 1



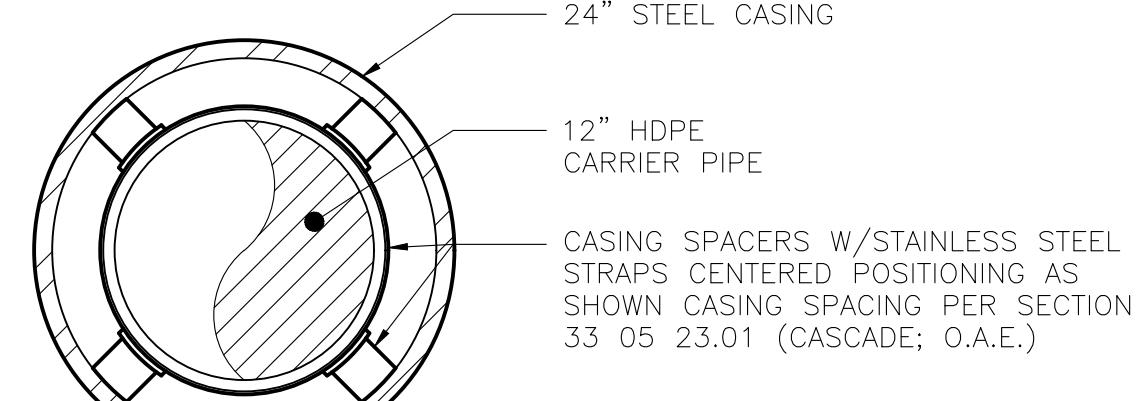
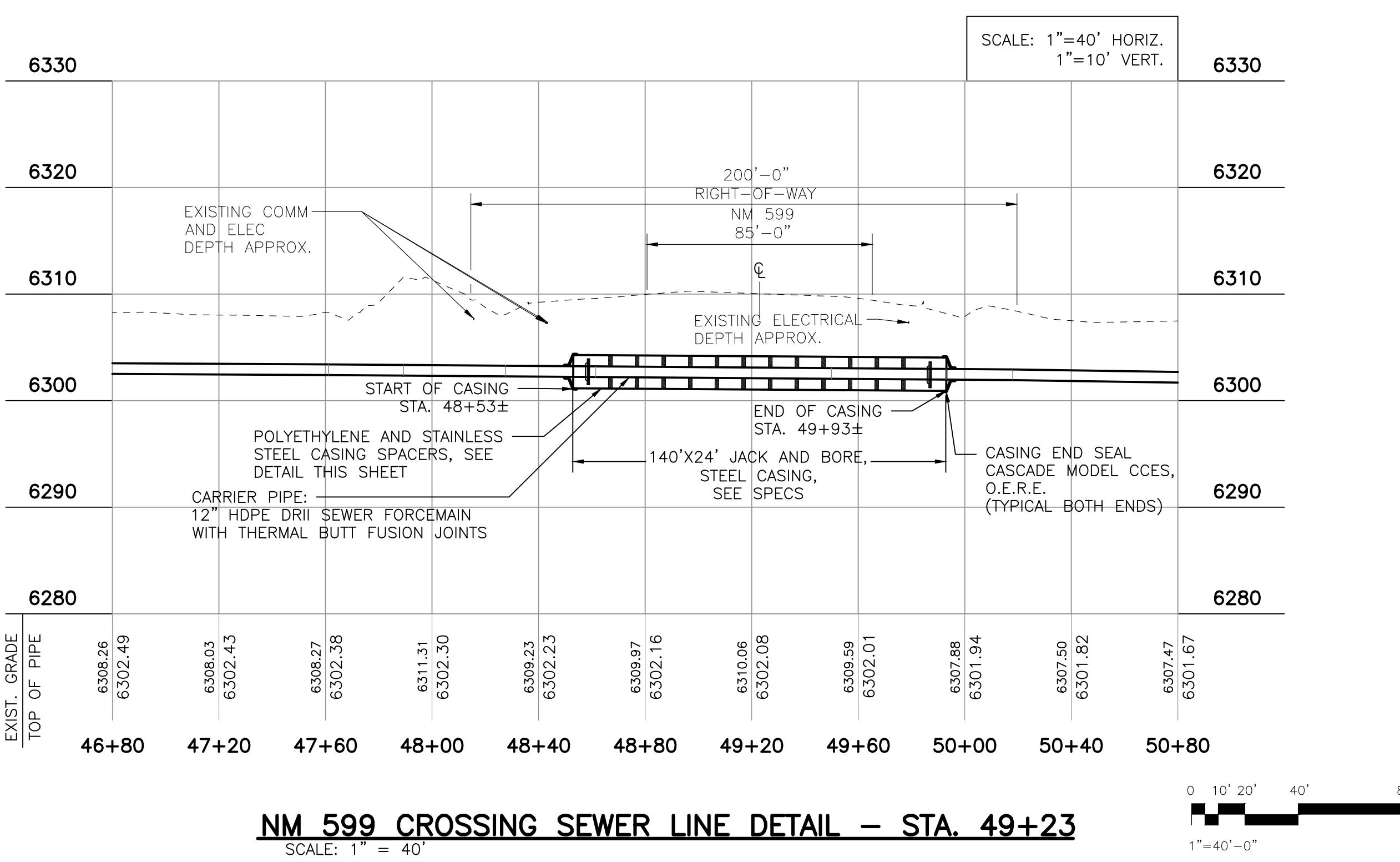




MOLZENCORBIN

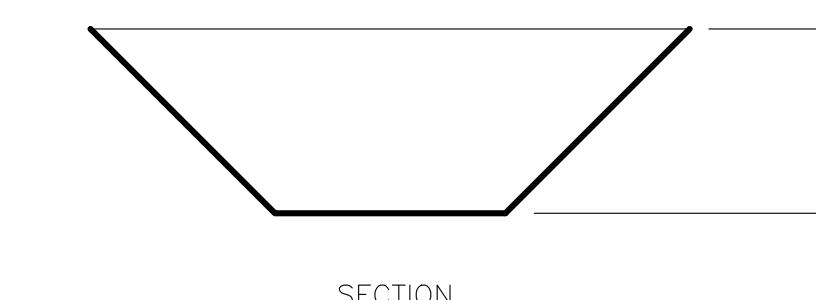
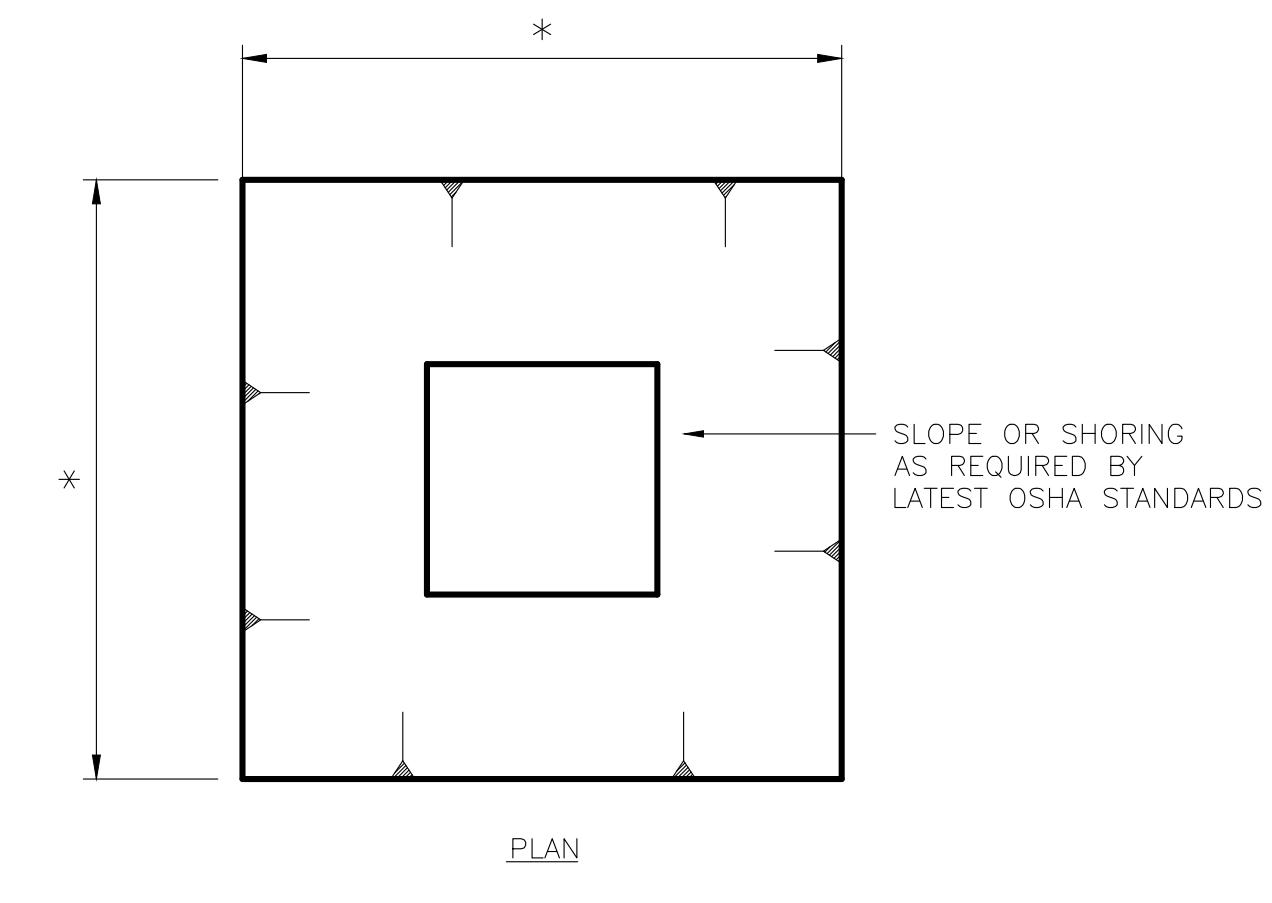
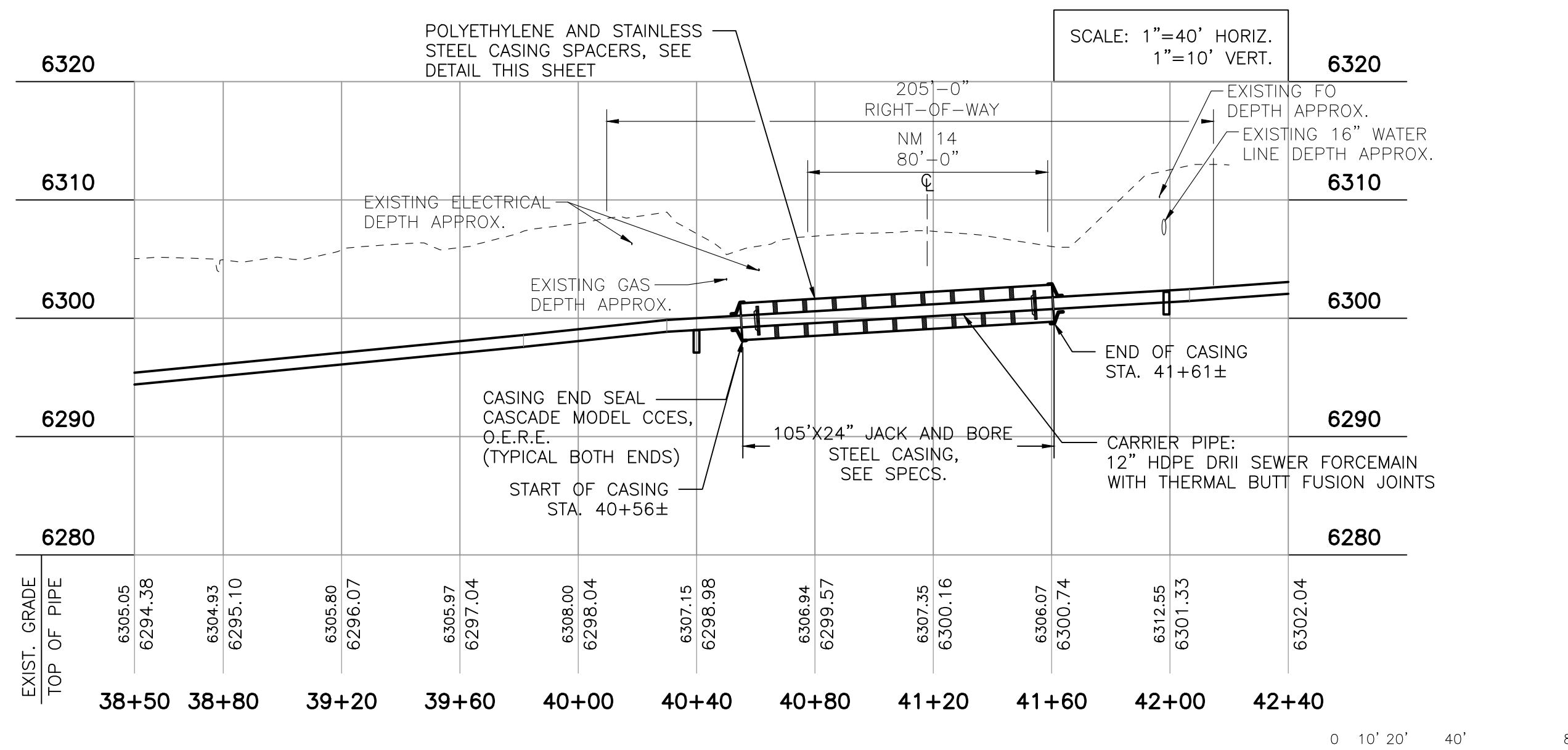
2701 Miles Road SE
Albuquerque, New Mexico 87106
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CASING SPACER DETAIL FOR DUCTILE IRON CARRIER PIPE

SCALE: NONE REFER TO SECTION 33 05 23.01 – JACKING AND BORING FOR REQUIREMENTS



BORE PIT DETAIL

SCALE: NONE



REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION RE-DIRECT

JACK AND BORE CROSSING DETAILS

APPROVED BY: REVIEWED BY: S. MORROW

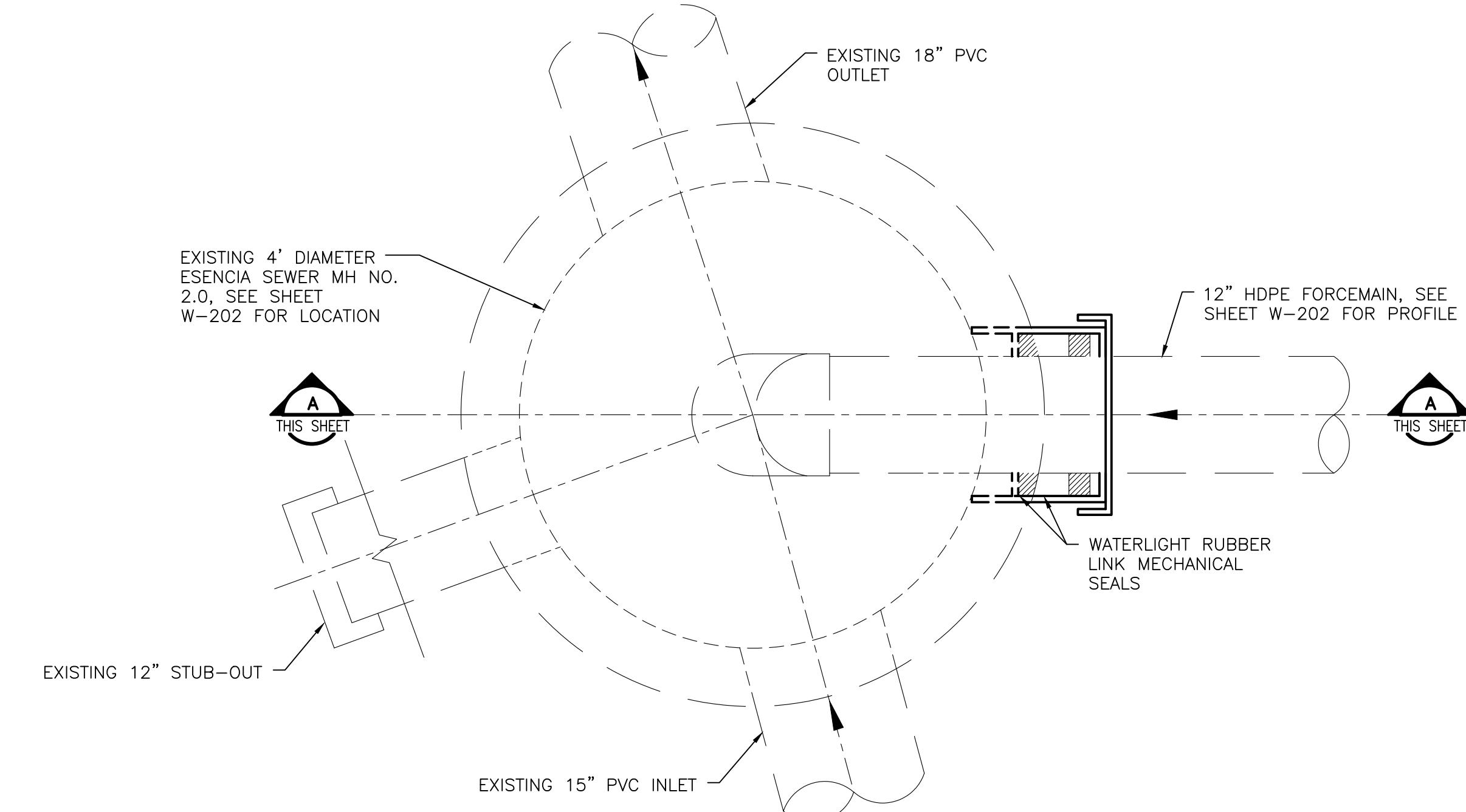
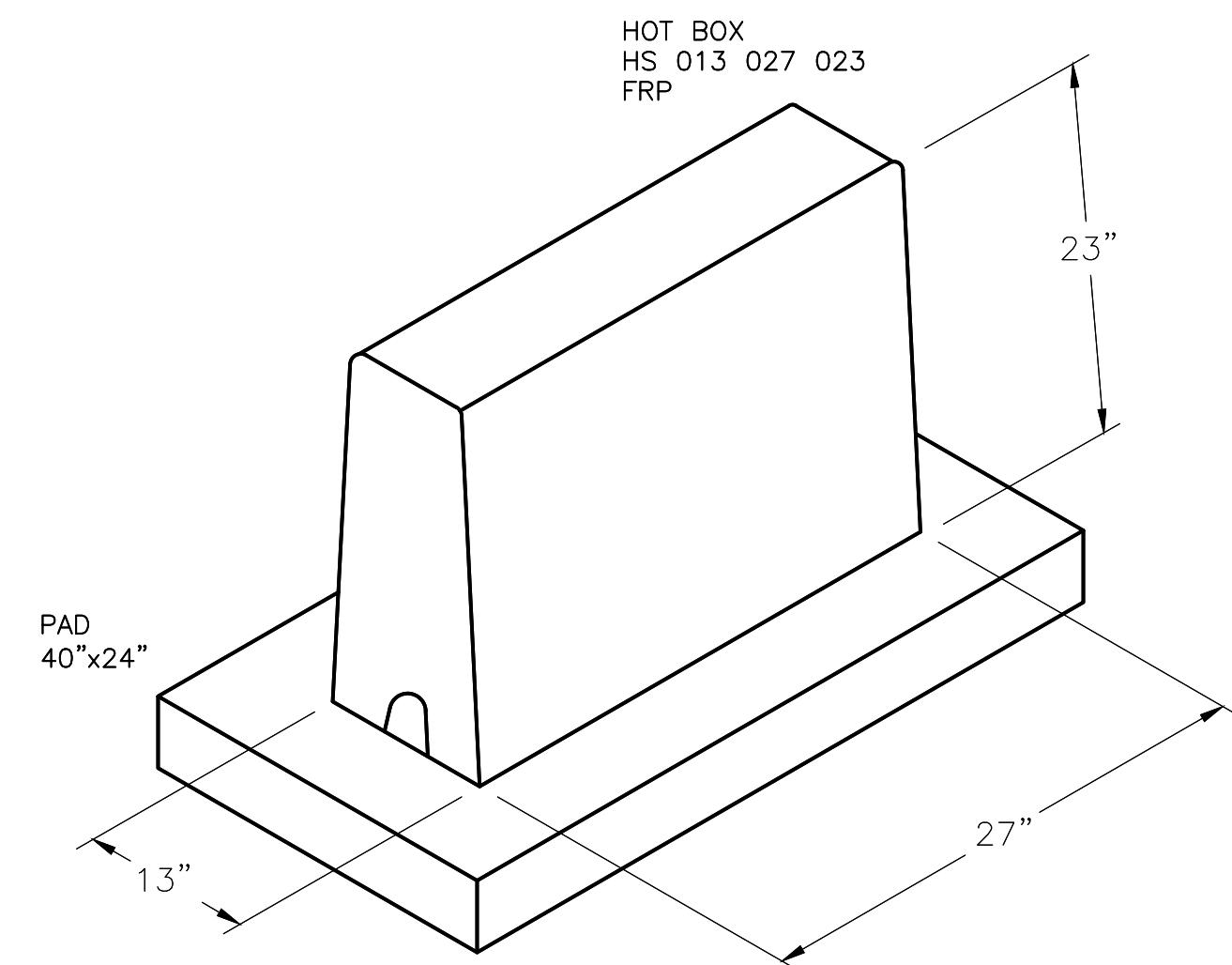
DATE: SEPTEMBER 2025 SHEET:

DRAWN BY: JJJ W-502

MOLZENCORBIN

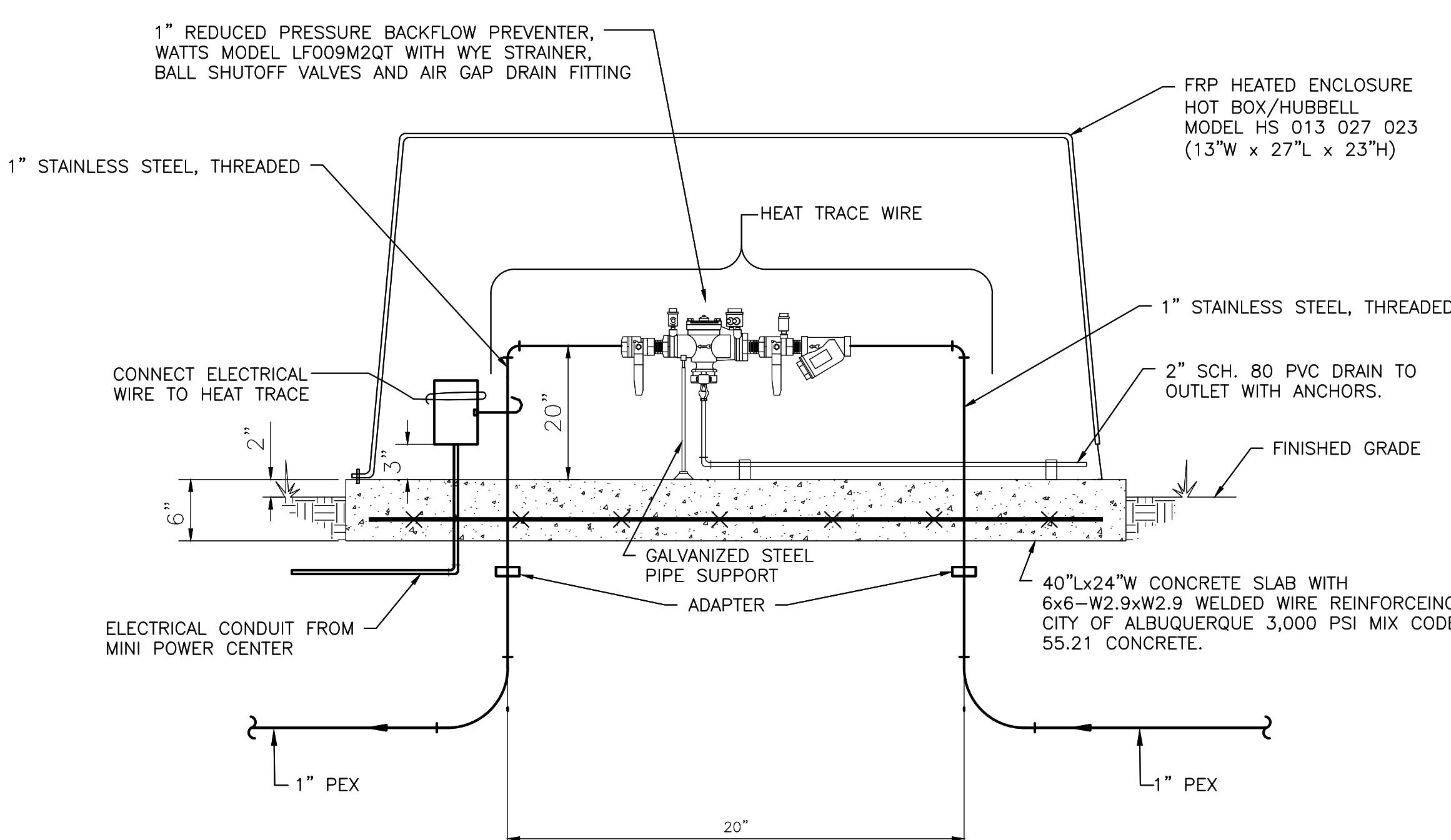
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PAYMENT WITHIN 45 DAYS AFTER SUBMISSION
OF AN UNDISPUTED REQUEST FOR PAYMENT



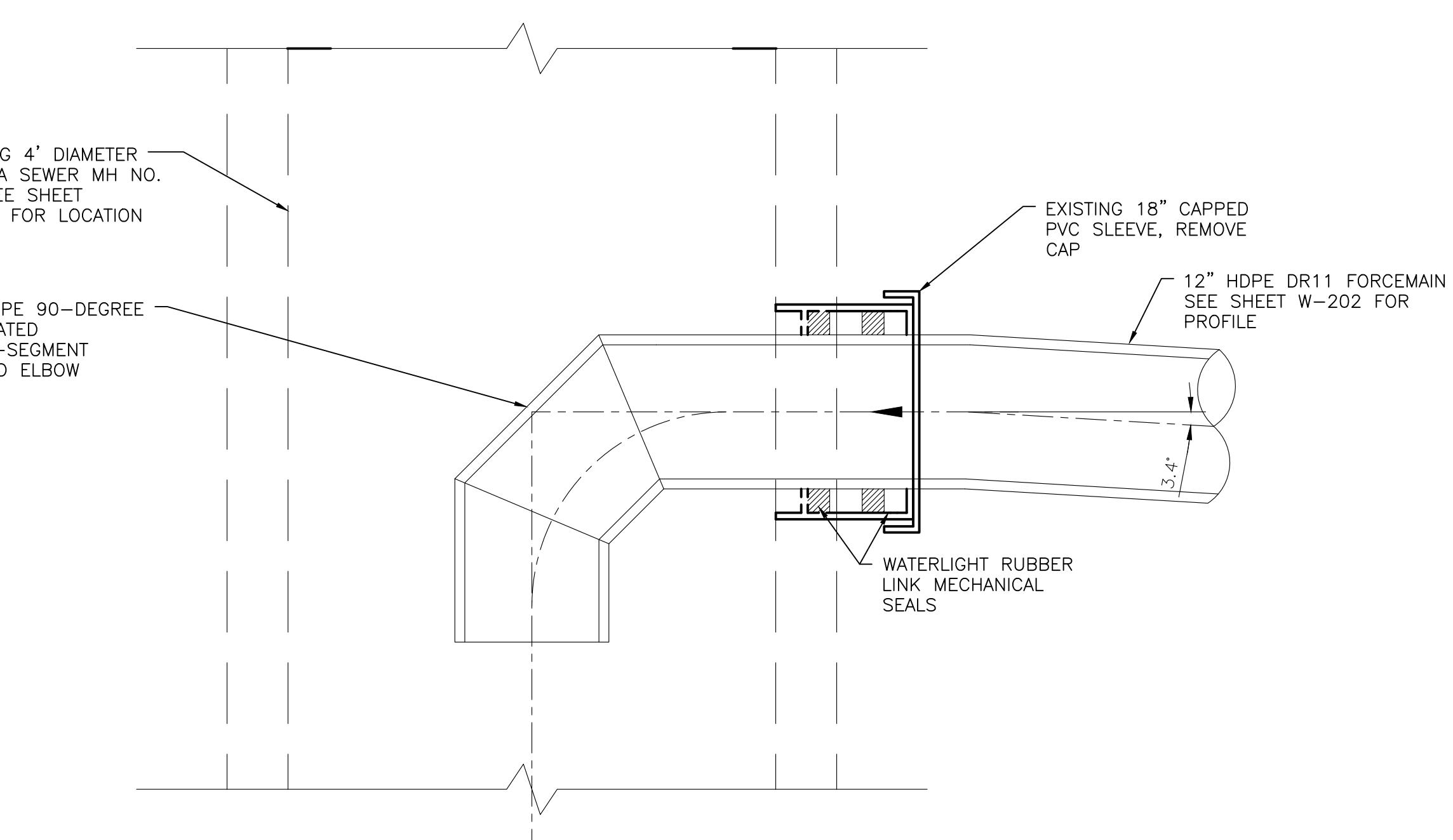
CONNECTION TO ESENCE MANHOLE NO.20 – PLAN

SCALE: 1"=1'



BACKFLOW PREVENTER DETAIL

SCALE: NONE



CONNECTION TO ESENCE MANHOLE NO.20 – SECTION A

SCALE: 1"=1'

REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION RE-DIRECT
SANTA FE COUNTY

ESENCI SEWER LINE CONNECTION AND BACKFLOW PREVENTER DETAILS

APPROVED BY: REVIEWED BY: S. MORROW

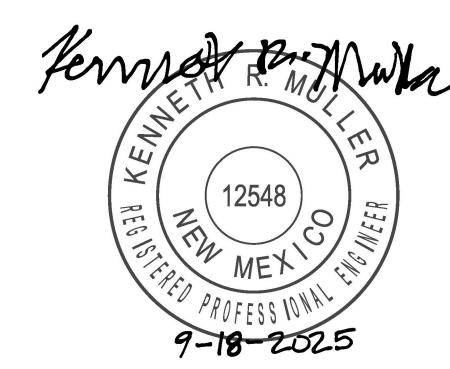
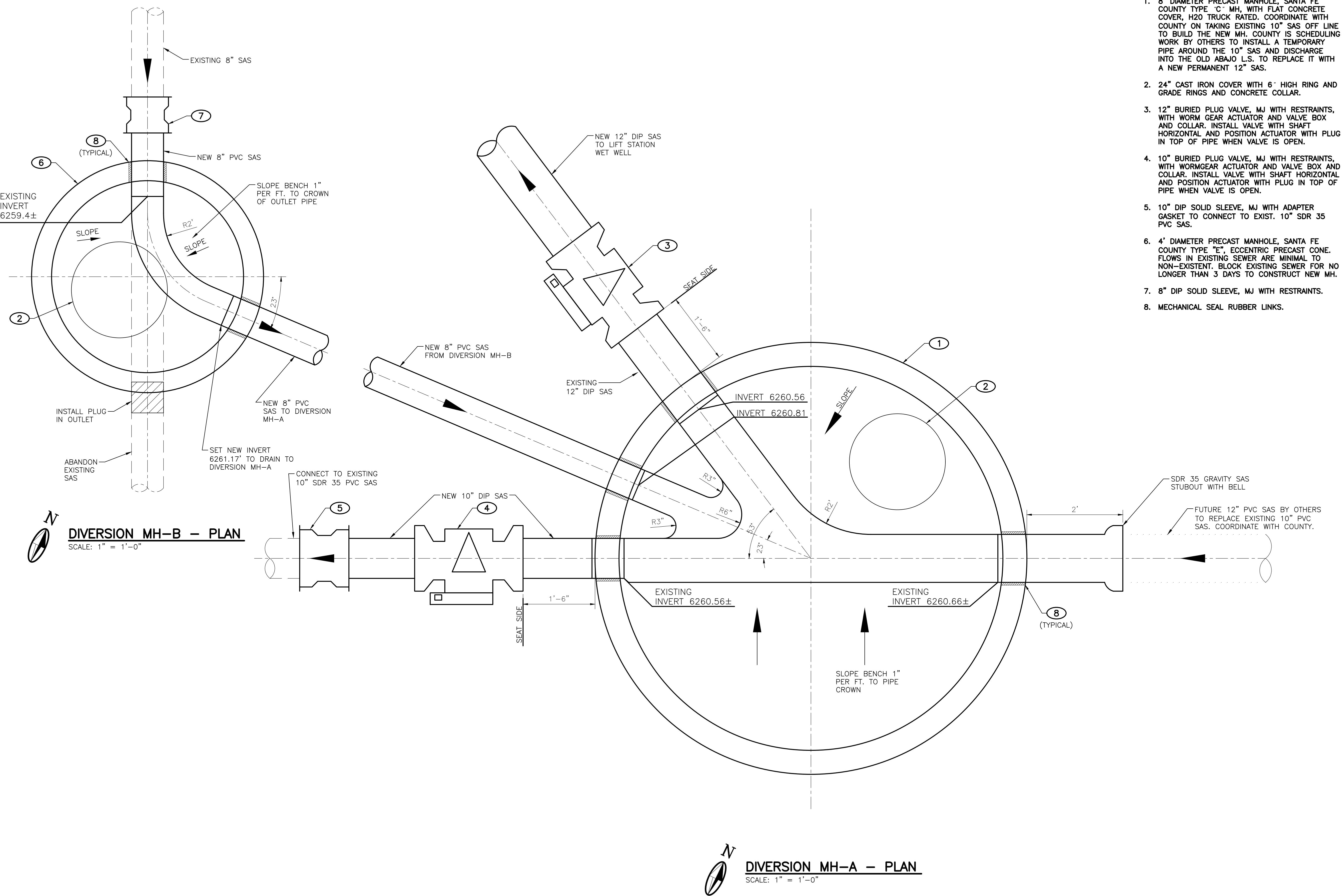
DATE: JULY 2025 SHEET:

DRAWN BY: JG W-504

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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



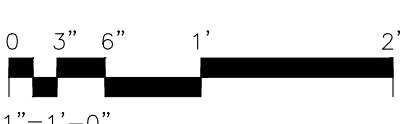
REVISION		
SYMBOL	DATE:	BY:

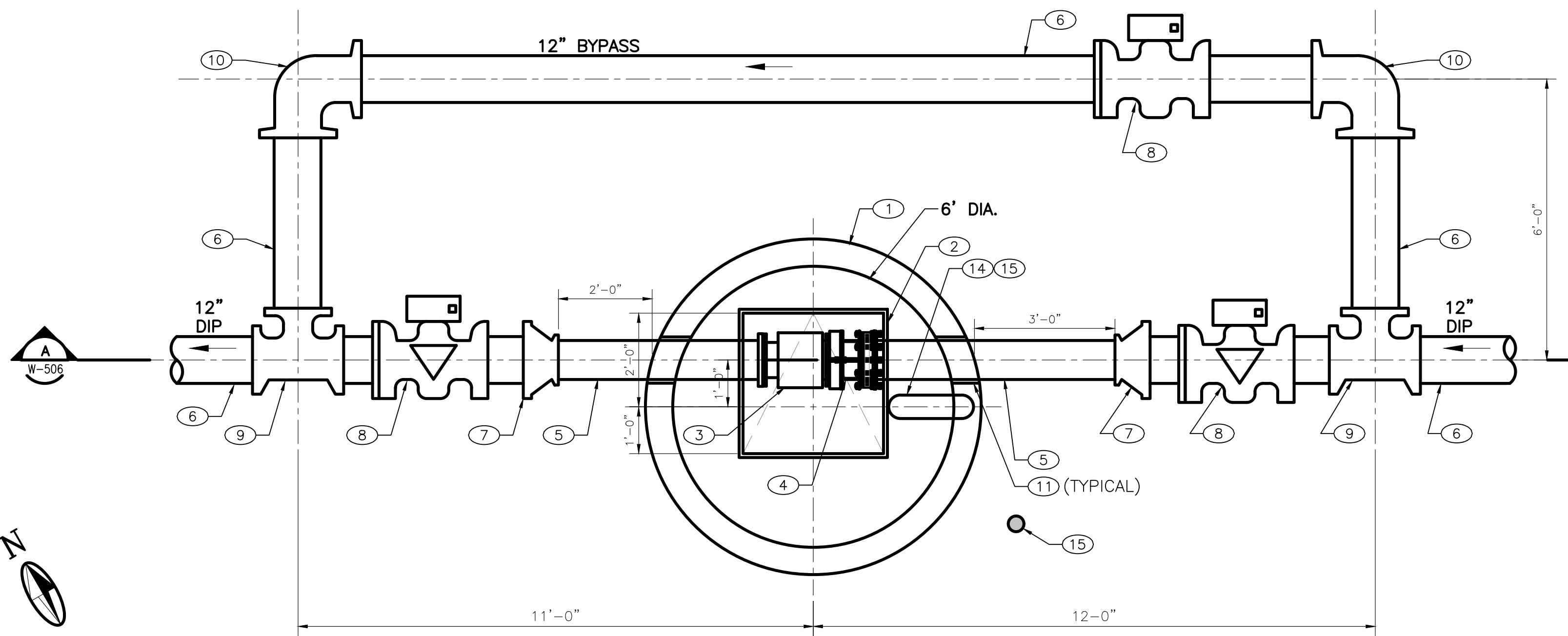
SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT
SANTA FE COUNTY

DIVERSION MH-A AND MH-B DETAILS

APPROVED BY:	REVIEWED BY: S. MORROW
DATE: SEPTEMBER 2025	SHEET: W-505
DRAWN BY: JJJ	

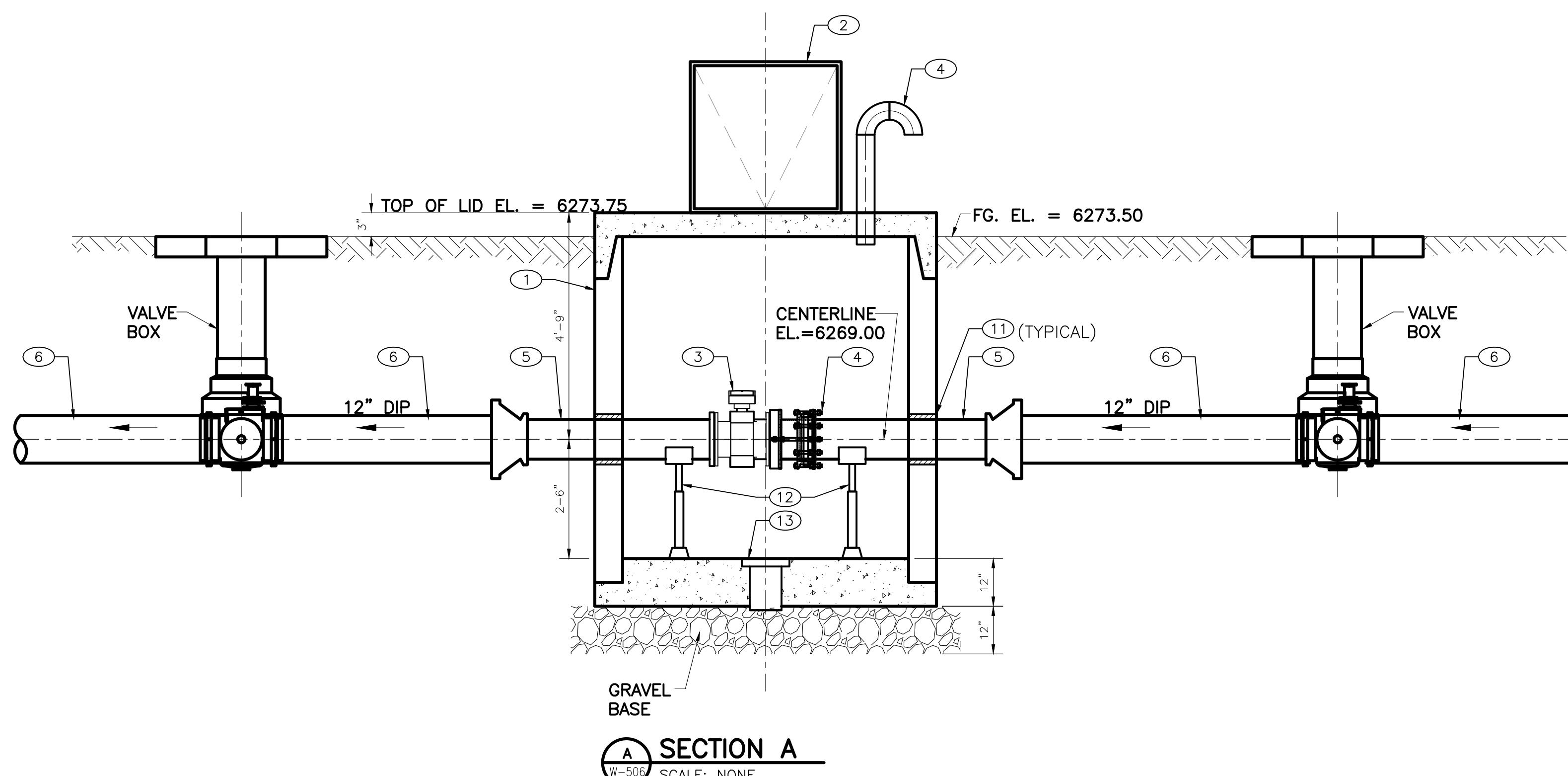




METER VAULT PLAN

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

0 6" 1' 2' 5'
1/2"=1'-0"



SECTION A

W-506 SCALE: NONE

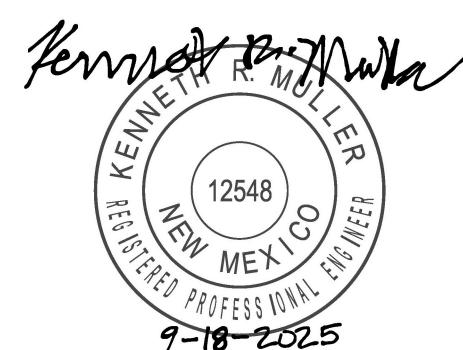
GENERAL NOTES

- 6' DIAMETER PRECAST MANHOLE, SANTA FE COUNTY TYPE "C" MH, WITH FLAT CONCRETE COVER, H2O TRUCK RATED.
- METER VAULT HINGED ACCESS HATCH, CLEAR OPENING = 36" X 36", H2O TRUCK RATED, SINGLE LEAF, CHANNEL FRAME. SEE SPECIFICATION 43 25 13.
- 10" MAG METER, FLANGED. SEE SPECIFICATION 40 71 13.13.
- 10" DISMANTLING JOINT, CLASS D FLANGES.
- 10" DIP SPOOL, FL X PE.
- 12" DIP SEGMENTS, PE X PE, LENGTHS AS REQUIRED.
- 12" X 10" DIP REDUCER, MJ, RESTRAINED.
- 12" BURIED PLUG VALVE, MJ WITH RESTRAINTS, WITH WORM GEAR ACTUATOR, 2" AWWA OPERATING NUT AND VALVE BOX AND COLLAR. INSTALL VALVE WITH SHAFT HORIZONTAL AND SEAT SIDE AS SHOWN. POSITION ACTUATOR WITH PLUG IN TOP OF PIPE WHEN VALVE IS OPEN. SEE SECTION 40 27 02.01 - PLUG VALVES, FOR DETAILS.
- 12" DIP TEE, MJ, RESTRAINED.
- 12" DIP 90 DEGREE BEND, MJ. RESTRAINED.
- MECHANICAL RUBBER LINK SEAL.
- GALVANIZED PIPE SUPPORT MOUNTED ON 1" GROUT PAD.
- 12" DIAMETER FLOOR DRAIN THROUGH SLAB WITH REMOVABLE CAST IRON GRATE.
- 6" SCHEDULE 40 GALVANIZED WELDED STEEL GOOSENECK VENT PIPE WITH 10-MESH STAINLESS STEEL BIRD SCREEN.
- BOLLARD.

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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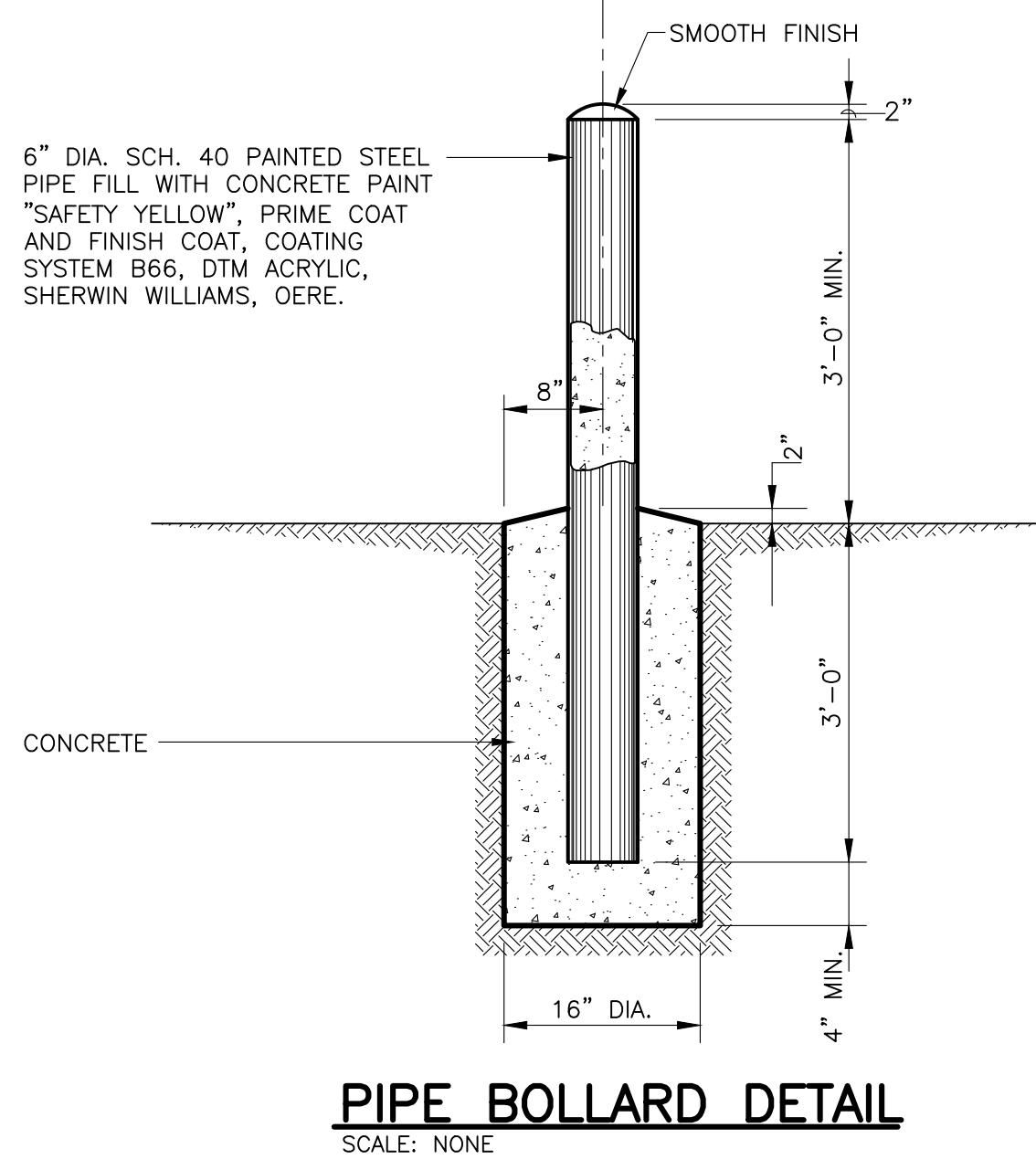
REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

	PROJECT NAME: ABAJO LIFT STATION RE-DIRECT
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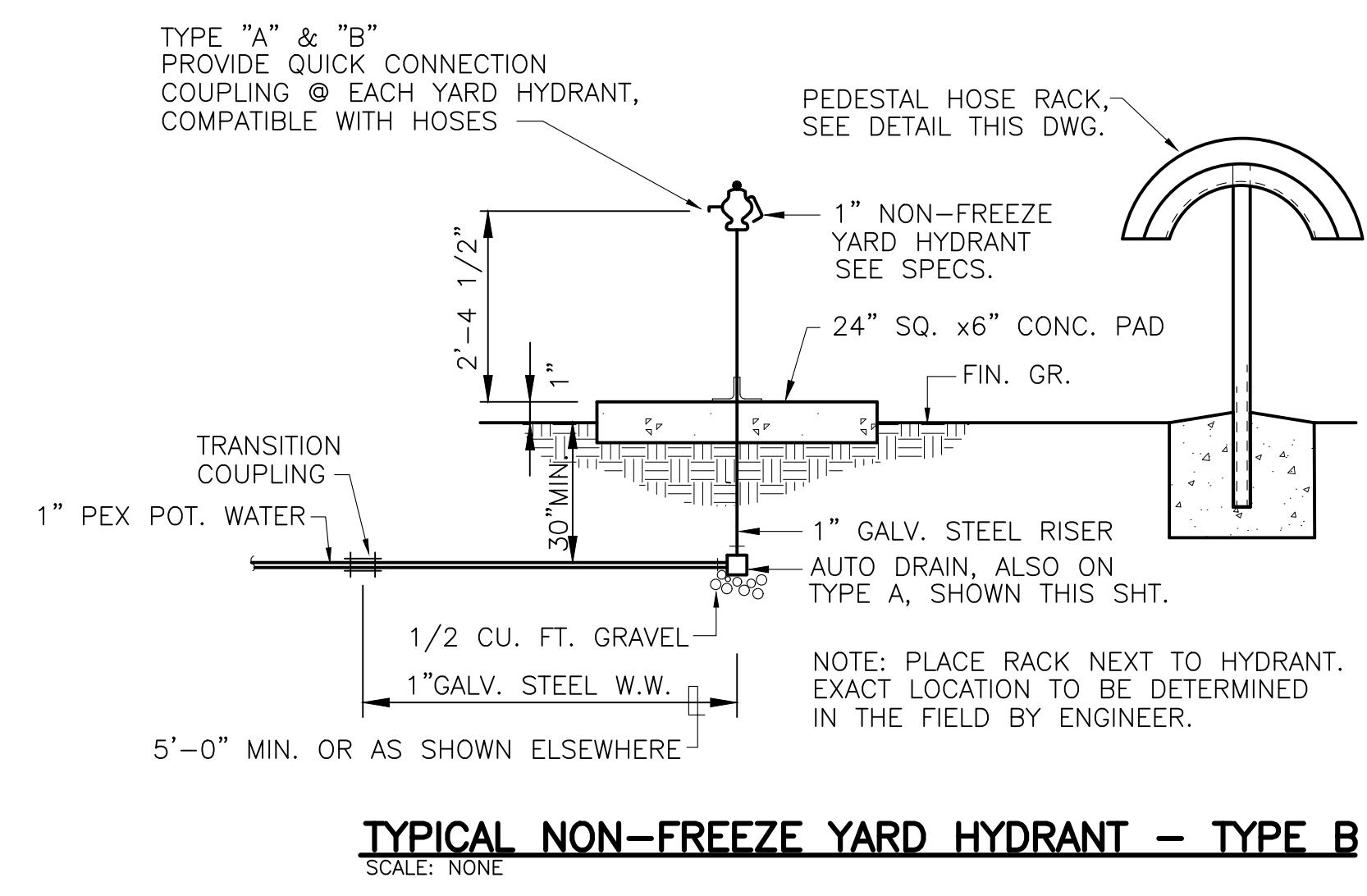
METER VAULT PLAN AND SECTION

APPROVED BY:	REVIEWED BY: S. MORROW
DATE: JULY 2025	
DRAWN BY: JTG	SHEET: W-506



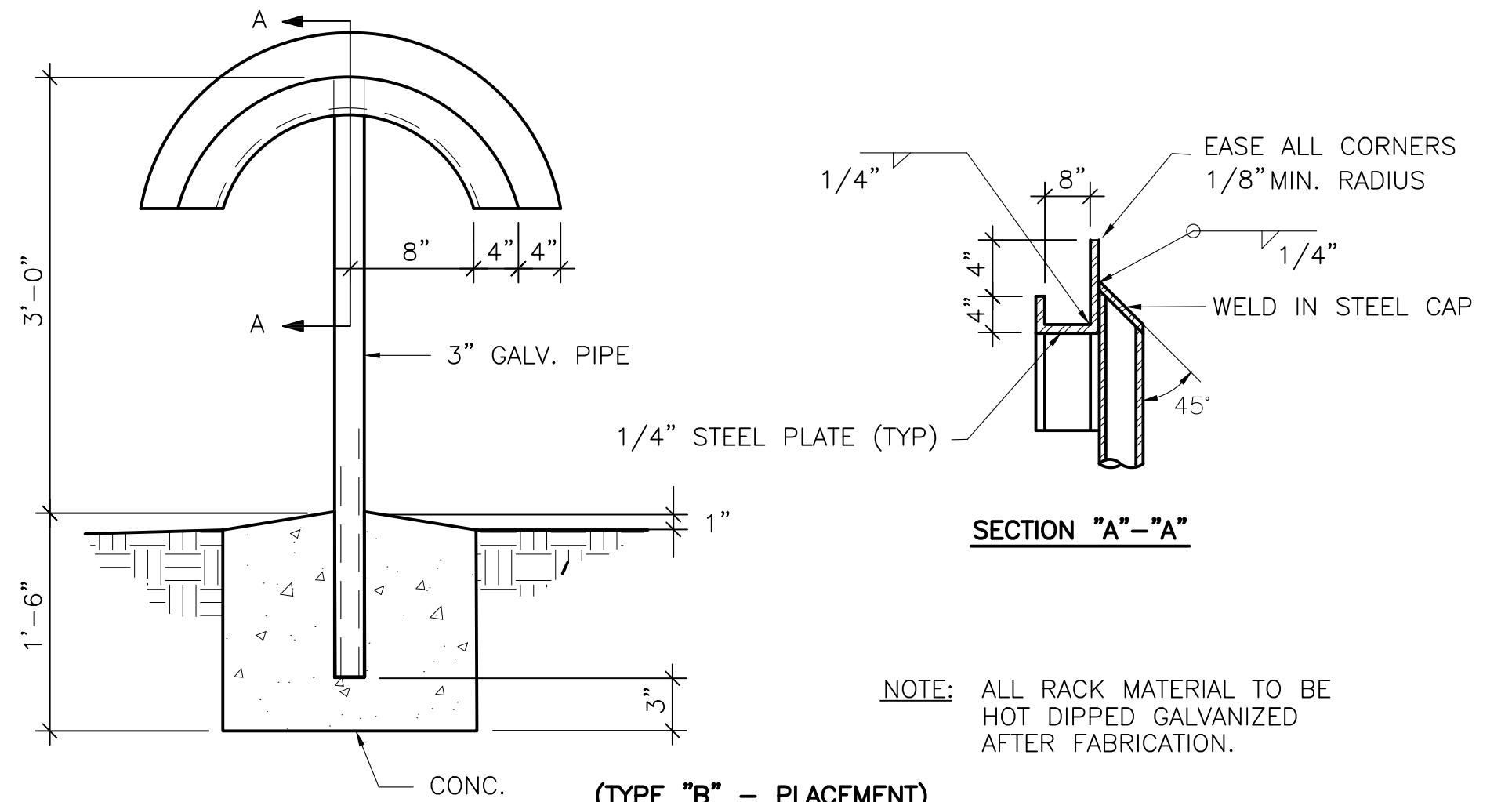
PIPE BOLLARD DETAIL

SCALE: NONE



TYPICAL NON-FREEZE YARD HYDRANT – TYPE B

SCALE: NO



HOSE RACK DETAIL - PEDESTAL MOUNTED

SCARE: N

NOTE: ALL RACK MATERIAL TO BE
HOT DIPPED GALVANIZED
AFTER FABRICATION.

 EASE ALL CORNERS
1/8" MIN. RADIUS

MOLZENCORBIN

2701 Miles Road SE
Abuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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

A circular stamp with the following text:

KENNETH R. MULLER
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
12548

SANTA FE COUNTY



PROJECT NAME:
ABAJO LIFT STATION
RF-DIRECT

MISCELLANEOUS DETAILS

APPROVED BY: S. MORROW REVIEWED BY: S. MORROW

DATE: SEPTEMBER 2025

SHEET:

DRAWN BY: JJG

For more information, contact the National Institute of Child Health and Human Development (NICHD) at 301-435-0911 or visit the NICHD website at www.nichd.nih.gov.

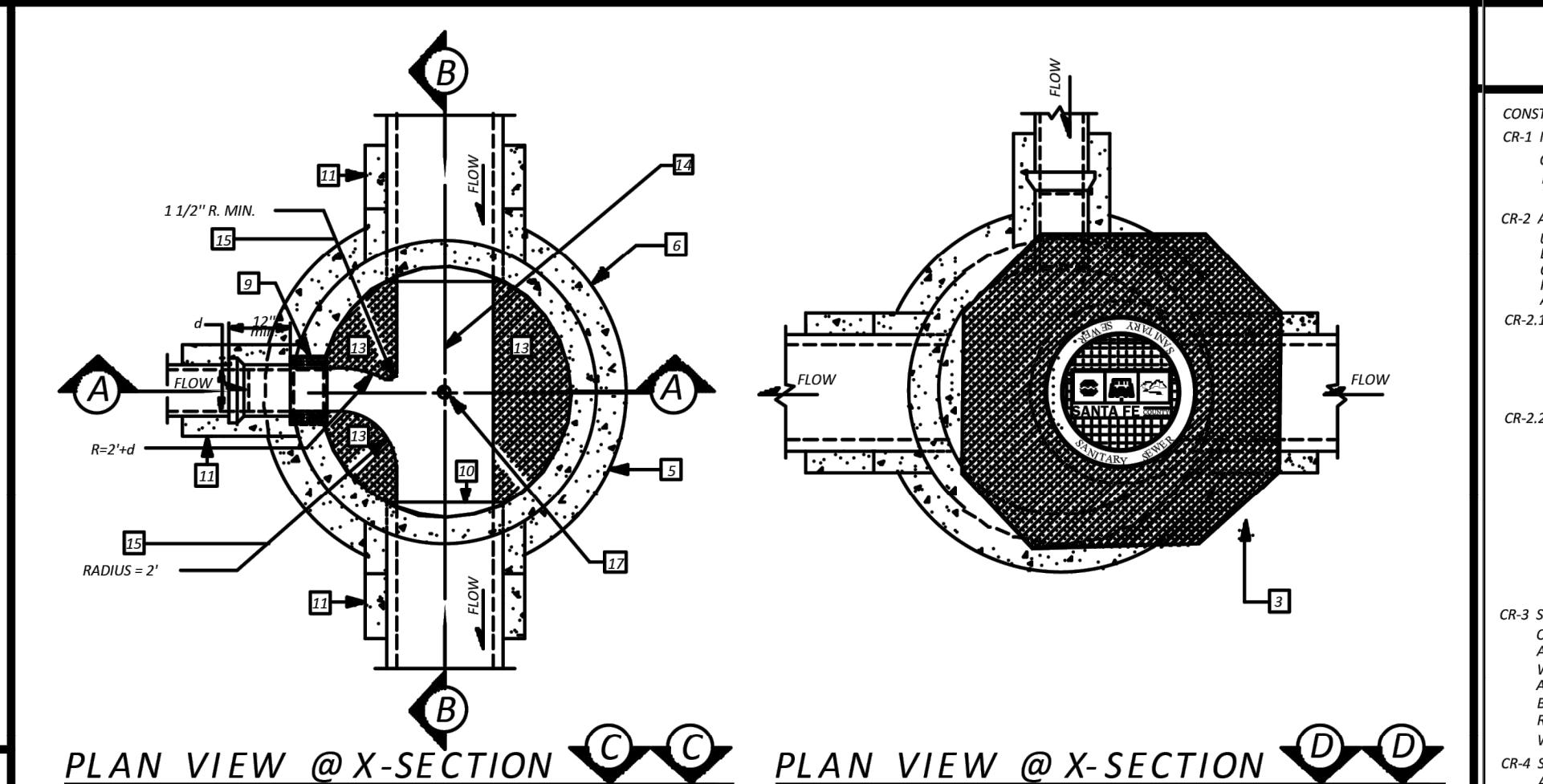
MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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

LEGEND

ITEM	DESCRIPTION
1	MANHOLE FRAME & COVER, refer to manhole frame and cover detail Dwg. No. SAS-4
2	CONCRETE ADJUSTMENT RINGS or CONCRETE BRICK, refer to concrete adjustment detail Dwg. No. SAS-5
3	CONCRETE COLLAR, refer to concrete collar detail Dwg. No. SAS-6
4	PRECAST REINFORCED CONCRETE RISER, CONE or FLAT TOP, with 5" (in) wall thickness, refer to general note CM-2
5	PRECAST REINFORCED CONCRETE BASE RISER, with suitable sized openings, refer to general note CM-2A
6	CONCRETE BASE, refer to concrete base detail Dwg. No. SAS-7
7	SEWER PIPE, refer to general note CM-3
8	6"(in) GROUT FLEET, on upper half of pipe and around base
9	ADAPTER, MANHOLE, refer to manhole adapter detail Dwg. No. SAS-8
10	PIPE SUPPORT, CONCRETE, shall extend out-side of manhole a maximum of 18" (in) to bell of first joint and shall cradle pipe half pipe
11	PIPE PENETRATION INTO MANHOLE, refer to manhole adapter detail Dwg. No. SAS-8
12	CONCRETE FILL, 3000 p.s.i., refer to general note CR-5
13	SHELF, to be 9" (in) minimum width with 1" (in) per 1'-0" slope, from crown of pipe
14	PIPE SHALL BE LAID through the manhole on straight runs, and up to 22 1/2 degree deflections, cut upper half of pipe after manhole has been completed and inspected by engineer.
15	HAND FORMED CHANNELS, shall be on uniform radius and shall not hold water
16	INVERT ELEVATIONS of LATERAL LINES, shall be the same as the springline elevation of the sewer main, where possible
17	CHANGE SLOPE of 1/2", at center of manhole
18	APPROVED WATER STOP, to be type of pipe
19	LOCATE WIRE, See Note H, this sheet for information



PLAN VIEW @ X-SECTION C-C

PLAN VIEW @ X-SECTION D-D

GENERAL NOTES

CONSTRUCTION REQUIREMENTS
CR-1 MATERIALS AND WORK
CURRENT NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (referred to as NM APWA) WILL BE USED. ALL MATERIALS AND WORKS NOTED BY SANTA FE COUNTY UTILITIES DIRECTOR.
CR-2 APPROVED PLANS
USE PLANS BEARING THE OFFICIAL STAMP OF THE DESIGN ENGINEER AND BEARING THE APPROVAL SIGNATURE OF THE SANTA FE COUNTY UTILITIES DIRECTOR OR APPROVED REPRESENTATIVE. CONSTRUCTION PERFORMED WITHOUT APPROVED PLANS WILL BE REJECTED.
CR-3 PIPING
PRIOR TO FINAL SFCU APPROVAL OF THE CONSTRUCTION PLANS A LETTER WILL BE RECEIVED FROM THE DESIGN ENGINEER OR APPROVED REPRESENTATIVE NOTIFYING THE INSPECTION AND RECORD DRAWING SERVICES FOR THE PROJECT.
CR-4 SHALLOW SEWER POLYWRAP ENCASING
THE CONTRACTOR, THROUGH THE PROJECT ENGINEER OR APPROVED REPRESENTATIVE, SHALL SUBMIT A DRAWING OF COMPLETION TO THE SANTA FE COUNTY UTILITIES DIRECTOR AS-BUILT MANHOLE AND INVERT ELEVATION DRAWINGS. THESE DRAWINGS SHALL BE BETWEEN MANHOLES, AND A SUMMARY SHEET SHOWING BEARING DISTANCES AND ELEVATIONS TO THE NEAREST SFCU CONSTRUCTION IMPLANT. FINALLY, CERTIFICATION AND CERTIFICATION OF COMPLIANCE STATEMENT (FOC-3.B) SHALL BE SUBMITTED TO SFCU PRIOR TO FINAL ACCEPTANCE BY SFCU.
CR-5 SEWER HOOK-UP PERMIT
OBTAIN PERMITS FOR THE PROJECT BEFORE COMMENCING ANY CONSTRUCTION. CONSTRUCTION PERMITTED WITHOUT OBTAINING PERMITS SHALL BE REJECTED.
CR-6 CONSTRUCTION PLANS
CONSTRUCTION PLANS SHALL INDICATE THE CLASS OF BEDDING TO BE USED, CHANGE OF BEDDING MATERIAL, CHANGE IN PIPE CLASSIFICATION OR WALL THICKNESS.
CR-7 SUBSTITUTIONS OR CHANGES
ALL SUBSTITUTIONS OR CHANGES MUST BE APPROVED BY THE SANTA FE COUNTY UTILITIES DIRECTOR OR APPROVED REPRESENTATIVE PRIOR TO CONSTRUCTION. ALL SUBSTITUTIONS OR CHANGES MUST BE SUBMITTED TO THE SANTA FE COUNTY UTILITIES DIRECTOR OR APPROVED REPRESENTATIVE, WHERE APPROPRIATE, SUBMITTAL MUST INCLUDE FABRICATION DRAWINGS, WORKING DRAWINGS AND MATERIAL SPECIFICATIONS OR THE EQUIVALENT. THE CONTRACTOR OR APPROVED DESIGN ENGINEER SHALL AUTHORIZE ANY DRAWINGS FOR SUBSTITUTIONS AND CHANGES AND SUBMIT THEM TO THE SANTA FE COUNTY UTILITIES DIRECTOR OR APPROVED REPRESENTATIVE INITIATING THE CHANGE IN THE FIELD. UNAUTHORIZED SUBSTITUTIONS WILL BE REJECTED.
CR-8 MANUFACTURER'S CERTIFICATES
CERTIFICATES OF COMPLIANCE AND TEST REPORTS AND RELATED DOCUMENTS, MATERIALS, DOCUMENTS SHALL BE SUBMITTED TO THE SANTA FE COUNTY UTILITIES DIRECTOR OR APPROVED REPRESENTATIVE AT THE TIME OF MATERIALS DELIVERY.
CR-9 CONTRACTOR REQUIREMENTS
CONTRACTOR PERFORMING WORK ON PUBLIC SEWER LINES SHALL BE A LICENSED NEW MEXICO UTILITY CONTRACTOR.

CR-10 CONSTRUCTION

AS PER SECTION 300, NM APWA, PIPE SHALL BE PLACED AND BEDDED IN A FROST FREE TRENCH. GASKET SHALL BE FULLY SEATED AND NOT SLIPPED; PIPE SHALL BE LAID THROUGH MANHOLE LOCATIONS ON STRAIGHT AND UP TO 22 1/2 DEGREE DEFLECTIONS.

A. IF TRENCH CONFIGURATION EXCEEDS THE LIMITS OF NM APWA STANDARDS, SECTION 700, OR AS DEFINED ON THE CONSTRUCTION DRAWINGS, THE DESIGN ENGINEER WILL SPECIFY THE NEW PIPE CLASSIFICATION OR WALL THICKNESS.

B. TRENCH CONFIGURATION IS NORMALLY USED WHEN TRENCH DEPTHS ARE 8'(ft) OR LESS. TYPE II TRENCH CONFIGURATION IS NORMALLY USED WHEN TRENCH DEPTHS ARE 10'(ft) OR LESS, DEPENDING ON SOIL CONDITIONS. REFER TO NM APWA STANDARDS SECTION 700.

C. MANHOLE CONSTRUCTION

A. CAST IN PLACE ON UNDISTURBED FROST FREE SUBGRADE.

B. PRECAST CONCRETE, ON PEA GRAVEL WITH COMPLETE EVEN BEARING.

C. PRECAST BARS, 3 DOUGLES, COATED COMPLETELY WITH NON-SHRINK GROUT AND CROWN TROWEL.

D. PRECAST BARS, 3 DOUGLES, COATED COMPLETELY WITH NON-SHRINK GROUT.

E. CAST IN PLACE BASES, SHALL ACHIEVE A MINIMUM OF 2500 psi COMPRESSIVE STRENGTH BEFORE SETTING PRECAST BARREL SECTIONS.

F. EXCAVATION AND BACKFILL

AS PER SECTION 300, NM APWA, SATURATION BY FLOODING OR JETTING METHODS IS NOT PERMITTED WITHOUT A SOILS ENGINEERING REPORT RECOMMENDING THESE METHODS. METHODS OF JETTING OR FLOODING ARE NOT TO BE USED ON THE BEDDING AND 12'(ft) OF INITIAL BACKFILL. COMPACTION SHALL BE DETERMINED PER AASHTO T-180.

G. FIELD QUALITY CONTROL

FQC-1 SUPERVISION AND INSPECTION

A. SUPERVISION: CONDUCTED BY DESIGN ENGINEER.

B. INSPECTION: DESIGN ENGINEER SHALL CERTIFY THAT THE PROJECT HAS BEEN COMPLETED IN ACCORDANCE TO PLANS & SPECIFICATIONS AND SHALL SUBMIT A CERTIFICATION OF COMPLIANCE STATEMENT WITH STAMP AND SIGNATURE, INCLUDED THE SUBMISSION OF AS-BUILT RECORD DRAWINGS ALSO SIGNED AND SEALED.

C. EQUIPMENT AND ASSISTANCE: PROVIDED BY CONTRACTOR.

FQC-2 TIE-IN AND GRADE: ALLOWABLE TOLERANCE BETWEEN STRUCTURE FROM DESIGN:

A. LINE: 0.20 FOOT

B. GRADE: 0.02 FOOT; PIPE SHALL NOT HOLD MORE THAN 1/8" INCH.

FQC-3 LEAKAGE TEST:

AIR TEST REQUIRED; REFER TO SECTION 801.7 NM APWA.

FQC-4 TELEVISION INSPECTION:

CONTRACTOR SHALL PROVIDE A CERTIFIED CCTV SERVICE PROVIDER AND RECORD TAPES AT HIS OWN EXPENSE.

FQC-5 ALL CONNECTIONS TO EXISTING MANHOLES INCLUDES REHABILITATING THE TIE IN MANHOLE TO MEET THESE STANDARD CONSTRUCTION DETAILS.

STORM SEWER COVER

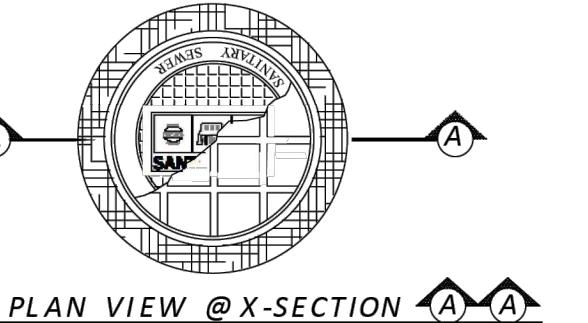
12548
KENNETH R. MULLER
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
9-18-2025

REVISION

SYMBOL DATE BY:

LEGEND

ITEM	DESCRIPTION
1	MANHOLE FRAME & COVER, refer to manhole frame and cover detail Dwg. No. SAS-4
2	CONCRETE ADJUSTMENT RINGS OR CONCRETE BRICK, refer to concrete adjustment detail Dwg. No. SAS-5
3	CONCRETE COLLAR, refer to concrete collar detail Dwg. No. SAS-6
4	PRECAST REINFORCED CONCRETE RISER, CONE OR FLAT TOP, with 5 ¹ / ₂ "(in) wall thickness, refer to general note CM-2
5	PRECAST REINFORCED CONCRETE BASE RISER, with suitable sized openings, refer to general note CM-2A
6	CONCRETE BASE, refer to concrete base detail Dwg. No. SAS-6
7	SEWER PIPE, refer to general note CM-1
8	6 ¹ / ₂ "(in) GROUT FILLET, on upper half of pipe and around base
9	ADAPTER, MANHOLE, refer to manhole adapter detail Dwg. No. SAS-8
10	PIPE PENETRATION INTO MANHOLE, refer to manhole adapter detail Dwg. No. SAS-8
11	PIPE SUPPORT, CONCRETE, Shall extend out-side of manhole a maximum of 18 ¹ / ₂ "(in) to bell of first joint and shall cradle pipe half pipe
12	CONCRETE FILL, 3000 p.s.i., refer to general note CR-6
13	SHELF, to be 9 ¹ / ₂ "(in) minimum width with 1 ¹ / ₂ "(in) per 10'-0" slope, from crown of pipe
14	PIPE Shall be laid through the manhole on straight runs, and up to 22 1/2 degree deflections
15	CUT UPPER HALF OF PIPE, after manhole has been completed and inspected by engineer
16	HAND FORMED CHANNELS, shall be on a uniform radius and shall not hold water
17	INVERT ELEVATIONS OF LATERAL LINES, Shall be the same as the springline elevation of the sewer main, where possible
18	CHANGE SLOPE OF PIPE, at center of manhole
19	APPROVED WATER STOP, to be with type of pipe
20	LOCATE WIRE: SEE NOTE I This Sheet For Information
21	Electronic Marking System Devices (EMD's) Ball Markers are required on all sewer service stub-out locations, casing bore ends or as required by, SFCU. See note I this sheet for information.
	CHECK VALVE W/THREADED CONNECTION OR CEMENTED PVC, O.A.E.

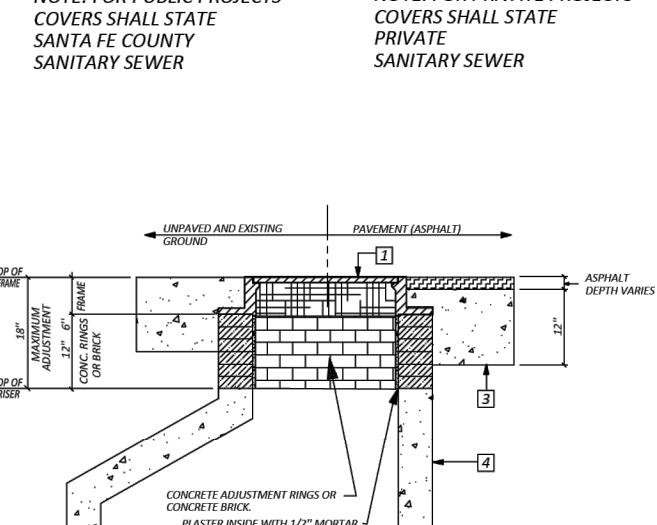


NOT TO SCALE

PLAN VIEW @ X-SECTION A-A

NOTE: FOR PUBLIC PROJECTS
COVERS SHALL STATE
SANTA FE COUNTY
SANITARY SEWER

NOTE: FOR PRIVATE PROJECTS
COVERS SHALL STATE
PRIVATE
SANITARY SEWER



NOT TO SCALE

PROFILE VIEW

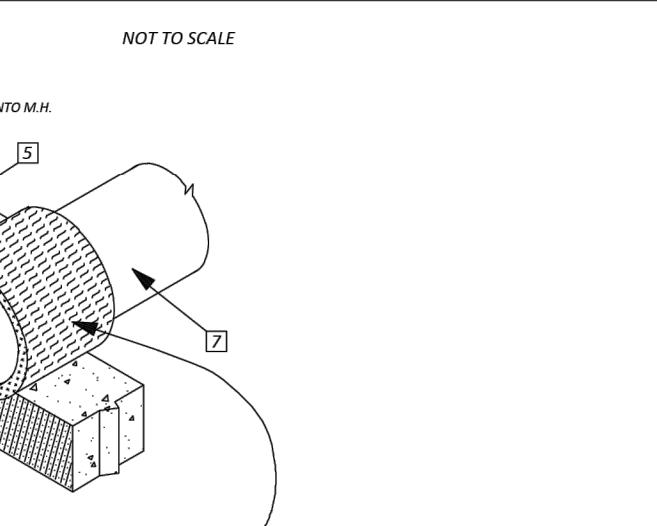
MANHOLE ADJUSTMENT DETAIL/DWG. # SAS-5

MANHOLE FRAME & COVER DETAIL/DWG. # SAS-4



NOT TO SCALE

PLAN VIEW @ X-SECTION A-A

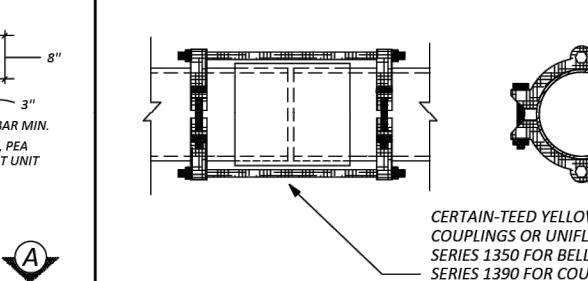


NOT TO SCALE

PROFILE VIEW @ X-SECTION A-A

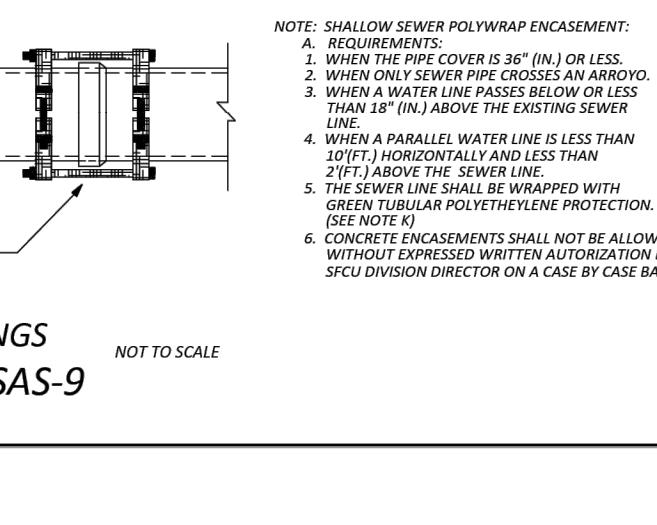
CONCRETE COLLAR DETAIL/DWG. # SAS-6

NOT TO SCALE



NOT TO SCALE

PLAN VIEW @ X-SECTION A-A



NOT TO SCALE

PROFILE VIEW @ X-SECTION A-A

CONCRETE BASE DETAIL/DWG. # SAS-7

NOT TO SCALE



NOT TO SCALE

PLAN VIEW @ X-SECTION A-A

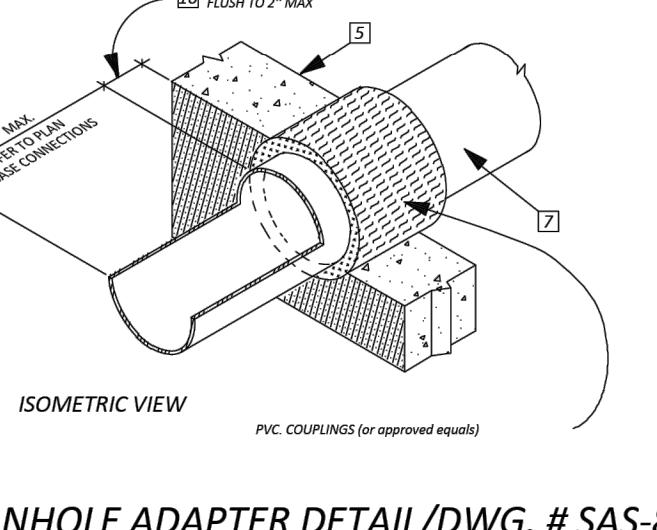


NOT TO SCALE

PROFILE VIEW @ X-SECTION A-A

MANHOLE ADAPTER DETAIL/DWG. # SAS-8

NOT TO SCALE

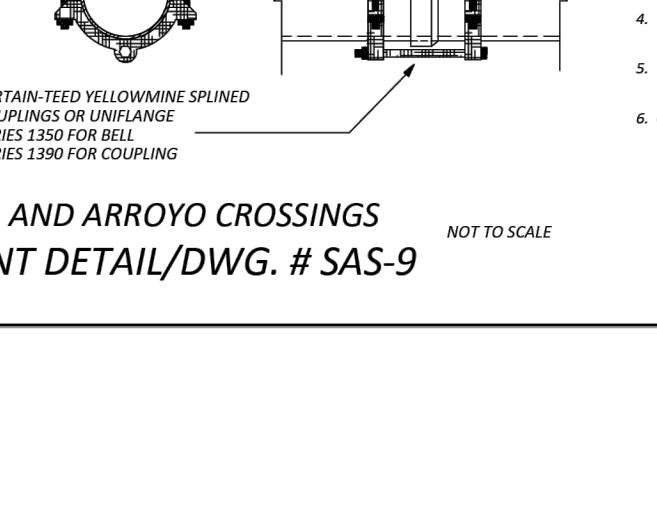


ISOMETRIC VIEW

PVC COUPLINGS (or approved equals)

NOTE: AT RIVER AND ARROYO CROSSINGS
RESTRAINED JOINT DETAIL/DWG. # SAS-9

NOT TO SCALE



NOT TO SCALE

NOTE: SHALLOW SEWER POLYWRAP ENCASMENT:
A. REQUIREMENTS:
1. WHEN THE PIPE COVER IS 36" (IN.) OR LESS.
2. WHEN ONLY SEWER PIPE CROSSES AN ARROYO.
3. WHEN A WATER LINE PASSES BELOW OR LESS THAN 18" (IN.) ABOVE THE EXISTING SEWER LINE.
4. WHEN A PARALLEL WATER LINE IS LESS THAN 10'(FT.) HORIZONTALLY AND LESS THAN 2'(FT.) ABOVE THE SEWER LINE.
5. THE SEWER LINE SHALL BE WRAPPED WITH GREENTURNAR POLYETHYLENE PROTECTION. (SEE NOTE K)
6. CONCRETE ENCASMENTS SHALL NOT BE ALLOWED WITHOUT EXPRESSED WRITTEN AUTORIZATION FROM SFCU DIVISION DIRECTOR ON A CASE BY CASE BASIS.

GENERAL NOTES

STRUCTION REQUIREMENTS

CR-1 MATERIALS AND WORK:
CURRENT NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (REFERRED TO AS NM APWA) WITH MODIFICATIONS NOTED BY SANTA FE COUNTY.

CR-2 APPROVED PLANS:
USE PLANS BEARING THE OFFICIAL STAMP OF THE DESIGN ENGINEER AND BEARING THE APPROVAL SIGNATURE OF THE COUNTY UTILITY DIVISION OR APPROVED REPRESENTATIVE. CONSTRUCTION PERFORMED WITHOUT APPROVED PLANS WILL BE REJECTED.

CR-2.1:
PRIOR TO FINAL SFCU APPROVAL OF THE CONSTRUCTION PLANS A LETTER WILL BE REQUIRED FROM THE DESIGN ENGINEER INDICATING THAT THEY ARE PROVIDING THE INSPECTION AND RECORD DRAWING SERVICES FOR THE PROJECT.

CR-2.2:
THE CONTRACTOR, THROUGH THE PROJECT ENGINEER SHALL SUBMIT PRELIMINARY AS-BUILTS WITHIN 5-DAYS OF COMPLETION TO SFCU FOR REVIEW AND APPROVAL AND SHALL INCLUDE: AS-BUILT MANHOLE RIM AND INVERT ELEVATIONS, FINAL PIPE SLOPES AND DISTANCES BETWEEN MANHOLES, AND A SUMMARY SHEET SHOWING BEARINGS AND DISTANCES WITH A SURVEY TIE TO THE NEAREST SFC CONTROL MONUMENT. FINAL CERTIFIED AS-BUILTS AND CERTIFICATION OF COMPLIANCE STATEMENT (FQC-1,B), SHALL BE SUBMITTED TO SFCU PRIOR TO FINAL ACCEPTANCE BY SFCU.

CR-3 SEWER HOOK-UP PERMIT:
OBTAIN PERMITS FOR THE PROJECT BEFORE COMMENCING ANY SEWER CONSTRUCTION. CONSTRUCTION PERFORMED WITHOUT OBTAINING PERMITS SHALL BE REJECTED.

A. CONSTRUCTION PLANS SHALL INDICATE THE CLASS OF BEDDING TO BE USED. CHANGE OF BEDDING MAY REQUIRE A CHANGE IN PIPE CLASSIFICATION OR WALL THICKNESS.

CR-4 SUBSTITUTIONS OR CHANGES:
ALL SUBSTITUTIONS OR CHANGES MUST BE APPROVED BY THE COUNTY UTILITY DIVISION OR COUNTY APPROVED REPRESENTATIVE PRIOR TO CONSTRUCTION. ALL SUBSTITUTIONS OR CHANGES MUST BE SUBMITTED BY THE DESIGN ENGINEER TO THE COUNTY UTILITY DIVISION OR APPROVED REPRESENTATIVE. WHERE APPROPRIATE, SUBMITTAL MUST INCLUDE FABRICATION DRAWINGS, WORKING DRAWINGS AND MATERIAL SPECIFICATIONS OR TEST DATA TO JUSTIFY SUBSTITUTIONS OR CHANGES. DESIGN ENGINEER SHALL AUTHORIZE ANY DRAWINGS FOR SUBSTITUTIONS AND CHANGES AND SUBMIT THEM TO THE COUNTY UTILITY DIVISION FOR APPROVAL. UNAUTHORIZED SUBMITTALS WILL BE REJECTED.

CR-5 MANUFACTURER'S CERTIFICATES:
CERTIFICATES OF COMPLIANCE AND TEST REPORTS ARE REQUIRED FOR MATERIALS, DOCUMENTS SHALL BE SUBMITTED TO THE COUNTY UTILITY DIVISION OR APPROVED REPRESENTATIVE AT THE TIME OF MATERIALS DELIVERY TO THE JOBSITE.

CR-6 CONTRACTOR REQUIREMENTS:
CONTRACTOR PERFORMING WORK ON PUBLIC SEWER LINES SHALL BE A LICENSED NEW MEXICO UTILITY CONTRACTOR.

CONSTRUCTION MATERIALS

CM-1 SEWER PIPE: (CERTIFICATES REQUIRED)

A. VITRIFIED CLAY: REFER TO SECTION 125, NM APWA FOR EXTRA STRENGTH VCP.

B. PLASTIC (PVC): REFER TO SECTION 121, NM APWA, AS MODIFIED BY THE CITY.

1. 4" THRU 15" (inch) DIAMETER, ASTM D-3034 OR ASTM F-789 PIPE. MINIMUM PS-46 STRENGTH. SDR-35 OR EQUAL

2. LARGER THAN 15" (in.) DIAMETER: ASTM F 679 VOL. 08.04.

C. HDPE PIPE PER ASTM D-1248 CLASS III WHEN APPROVED BY COUNTY UTILITY DIVISION ENGINEER.

D. PVC RESTRAINED JOINTS: SERIES 1350 OR SERIES 1390 FOR COUPLINGS PRODUCED BY UNI-FLANGE CORPORATION, LOCKING COUPLINGS WITH NYLON SPLINE, MARKETED AS "YELLOWMINE" AND PRODUCED BY CERTAINTEED CORPORATION, OR APPROVED EQUAL.

E. MANHOLE ADAPTERS: ASBESTOS CEMENT (AC) MANHOLE ADAPTERS, OR AC/PVC ADAPTER COUPLINGS.

F. BUILDING SERVICE STUBS: CAST IRON DWV, PVC SCH. 40 DWV.

G. SERVICE CONNECTIONS:

1. VCP PIPE: FACTORY TEE FITTINGS; SECTION 125 NM APWA.

2. PVC PIPE: CAST IRON BODIES TAPPING SADDLE WITH STAINLESS STEEL TENSION STRAP AND FITTINGS; FOWLER "QUICKWAY", GENECO, HERSEY "PIONEER", OR APPROVED EQUAL.

H. SOIL CLASSIFICATION: THE UNIFIED SOIL CLASSIFICATION SYSTEM PER ASTM D 2487 TABLE 701.3.5 NM APWA.

I. ALL SEWER MAINS AND OTHER PRESSURE PIPELINES SHALL BE BURRIED WITH A # 12 CONTINUOUS ELECTRICAL TRACING WIRE TO ENABLE FUTURE LOCATION OF PIPE. THE TRACING WIRE SHALL BE TAPE TO THE TOP OF THE PIPE AT 10-FOOT INTERVALS TO PREVENT DISLOCATION OF THE WIRE DURING BACKFILL. LOCATE WIRES SHALL EXTEND TO THE TOP OF MANHOLES ON THE OUTSIDE AND PENETRATE UNDER THE MANHOLE FRAME INTO THE MANHOLE FOR ACCESS TO THE WIRE. THE TRACING WIRE SHALL BE SPLICED USING A 2-WAY OR 3-WAY LOW VOLTAGE TAP CONNECTOR, 3M-562 OR EQUIVALENT. THE SPLICE SHALL BE COATED FOR CORROSION PROTECTION USING A GENERAL PURPOSE TAPE SEALANT SIMILAR TO RAY-CHEM PRODUCTS, 1.5 INCH WIDE 0.012-INCH THICK, SPIRALLY WRAPPING WITH 1-INCH OVERLAPS AT CONNECTOR AND WIRE. THE TAPE SEALANT SHALL BE COVERED WITH A LAYER OF ELECTRICAL TAPE AS AN OUTER WRAP.

J. MARKER BALLS SHALL BE INSTALLED DIRECTLY ABOVE THE LINE BEING IDENTIFIED AND IN NO CIRCUMSTANCES SHALL THE BALLS BE BURIED DEEPER THAN 5-FEET MAXIMUM. ACCEPTABLE MATERIALS ARE: 3M EMS BALL MARKERS, 1404-XR FOR WASTEWATER, AND 1408-XR FOR RECLAIMED WATER SYSTEMS.

K. POLYWRAP

1. 8 MIL MINIMUM, GROUP 2, LINEAR LOW DENSITY FLAT-TUBE, VIRGIN POLYETHYLENE FILM SHALL MEET OR EXCEED THE REQUIREMENTS OF AWWA C105-05, ANSI A21.5-05, ASTM D4976, AND NT4112-05. THE FILM IS MARKED SHOWING TRADEMARK, YEAR OF MANUFACTURE, TYPE OF RESIN, SPECIFICATION CONFORMANCE, APPLICABLE PIPE SIZE AND THE WORDS "WARNING CORROSION / LEAK PROTECTION - REPAIR ANY DAMAGE".

CM-2 MANHOLES:

A. CONCRETE MANHOLES: PRECAST REINFORCED CONCRETE RISERS, REDUCING CONES, AND ADJUSTMENT RINGS PER ASTM C 478 VOL. 04.05. BASES MAY BE FIELD PLACED CONCRETE OR PRECAST CONCRETE PER ASTM C 478 VOL. 04.05 (CERTIFICATES REQUIRED). CRACKED OR VISIBLY DEFECTIVE UNITS WILL BE REJECTED.

B. PIPE PENETRATIONS: PRECAST UNITS SHALL HAVE SUITABLE SIZED OPENINGS CAST INTO BARREL AT PROPER ANGLES FOR PIPE AND MANHOLE ADAPTERS.

C. MANHOLE STEPS: REFER TO SECTION 920.4.7 NM APWA POLYPROPYLENE ENCASED GRADE 60 STEEL BY M.A. INC. OR APPROVED EQUAL; 14"(IN.) WIDE, 16"(IN.) MAXIMUM SPACING.

D. FRAMES AND COVERS:

1. CASTING: SHALL CONFORM TO SECTION 160, 161 & 162, NM, APWA CLASS 30B. (CERTIFICATES AND SHOP DRAWINGS REQUIRED)

2. MINIMUM COVER WEIGHT: 165 POUNDS

3. MINIMUM COMBINED WEIGHT: 365 POUNDS +/- 5%

4. BEARING SURFACES: SHALL BE MATCHED FOR A FIRM NON ROCKING SEAT BETWEEN FRAME AND COVER. MINIMUM SEATING WIDTH: 7/8"(IN.)

5. COATING: NONE

6. COVER LETTERINGS: SANTA FE COUNTY N.M. SANITARY SEWER

7. CASTINGS: CAST MANUFACTURER AND MODEL NUMBER ON FRAME AND COVER.

8. CASTINGS TOLERANCE: +/- 1/16"(IN.) PER FOOT OF OVERALL DIMENSION. OUT OF ROUND CASTINGS AND LOOSE FITTING UNITS WILL BE REJECTED IN THE FIELD.

CM-3 SHALLOW SEWER POLYWRAP ENCASEMENT:

A. REQUIREMENTS:

1. WHEN THE PIPE COVER IS 36" (IN.) OR LESS.

2. WHEN ONLY SEWER PIPE CROSSES AN ARROYO.

3. WHEN A WATER LINE PASSES BELOW OR LESS THAN 18" (IN.) ABOVE THE EXISTING SEWER LINE.

4. WHEN A PARALLEL WATER LINE IS LESS THAN 10'(FT.) HORIZONTALLY AND LESS THAN 2'(FT.) ABOVE THE SEWER LINE.

5. THE SEWER LINE SHALL BE WRAPPED WITH GREEN TUBULAR POLYETHYLENE PROTECTION. (SEE NOTE K)

6. CONCRETE ENCASEMENTS SHALL NOT BE ALLOWED WITHOUT EXPRESSED WRITTEN AUTORIZATION FROM SFCU DIVISION DIRECTOR ON A CASE BY CASE BASIS.

INSTALLATION

I-1 LAYING PIPE:
AS PER SECTION 900, NM APWA; PIPE SHALL BE PLACED AND BEDDED IN A FROST FREE TRENCH; GASKET SHALL BE FULLY SEATED AND NOT SLIPPED; PIPE SHALL BE LAID THROUGH MANHOLE LOCATIONS ON STRAIGHT AND UP TO 22 1/2 DEGREE DEFLECTIONS.

A. IF PIPE TRENCH INSTALLATION CONFIGURATION EXCEEDS THE LIMITS OF NM APWA STANDARDS, SECTION 700, OR AS DEFINED ON THE CONSTRUCTION PLANS, THE DESIGN ENGINEER WILL SPECIFY THE NEW PIPE CLASSIFICATION OR WALL THICKNESS.

B. TYPE I TRENCH CONFIGURATION IS NORMALLY USED WHEN TRENCH DEPTHS ARE 8'(FT.) OR LESS. TYPE II TRENCH CONFIGURATION IS NORMALLY USED WHEN TRENCH DEPTHS ARE 9'(FT.) AND OVER, DEPENDING ON SOIL CONDITIONS. REFER TO NM APWA STANDARDS SECTION 700.

C. PER 1998-16 MAXIMUM MANHOLE SPACING 8"-21" DIAMETER STRAIGHT 450' MAXIMUM.

C-1. MAXIMUM MANHOLE SPACING CURVILINEAR 400' MAXIMUM.

C-2. DROP MANHOLES ARE REQUIRED WHEN INFLOWS TO OUTFLOWS ELEVATIONS EXCEED 1.5 FEET.

I-2 MANHOLE CONSTRUCTION:

A. BASE:

1. CAST IN PLACE: ON UNDISTURBED FROST FREE SUBGRADE

2. PRECAST UNIT: ON PEA GRAVEL WITH COMPLETE EVEN BEARING

B. PRECAST BARREL:

1. JOINTS: FILL COMPLETELY WITH NON-SHRINK GROUT AND TROWEL

2. MANHOLE ADAPTOR: INSTALL OVER PVC PIPE AND FILL IN PENETRATION WITH NON-SHRINK GROUT.

3. CAST IN PLACE BASES: SHALL ACHIEVE A MINIMUM OF 2500 PSI COMPRESSIVE STRENGTH BEFORE SETTING PRECAST BARREL SECTIONS.

I-3 EXCAVATION AND BACKFILL:
AS PER SECTION 700, NM APWA; SATURATION BY FLOODING OR JETTING METHODS IS NOT PERMITTED WITHOUT A SOILS ENGINEERING REPORT RECOMMENDING THESE METHODS. MECHANICAL OR VIBRATORY COMPACTORS SHALL NOT BE USED IN THE BEDDING AND 12"(IN.) OF INITIAL BACKFILL. COMPACTION SHALL BE DETERMINED PER AASHTO T-180.

FIELD QUALITY CONTROL

FQC-1 TESTING AND INSPECTION:

A. SUPERVISION: CONDUCTED BY DESIGN ENGINEER.

B. CERTIFICATION: DESIGN ENGINEER SHALL CERTIFY THAT THE PROJECT HAS BEEN COMPLETED IN ACCORDANCE TO PLANS & SPECIFICATIONS AND SHALL SUBMIT A CERTIFICATION OF COMPLIANCE STATEMENT WITH STAMP AND SIGNATURE.

C. EQUIPMENT AND ASSISTANCE: PROVIDED BY CONTRACTOR.

FQC-2 LINE AND GRADE: ALLOWABLE TOLERANCE BETWEEN STRUCTURE FROM DESIGN;

A. LINE: 0.20 FOOT

B. GRADE: 0.02 FOOT; PIPE SHALL NOT HOLD BACK ANY WATER.

FQC-3 LEAKAGE TEST:
AIR TEST REQUIRED; REFER TO SECTION 901.7 NM APWA.

FQC-4 TELEVISION INSPECTION:
CONTRACTOR SHALL PROVIDE A CERTIFIED CCTV SEWERLINE INSPECTION AND RECORD TAPES AT HIS OWN EXPENSE.

FQC-5 ALL CONNECTIONS TO EXISTING MANHOLES INCLUDES REHABILITATING THE TIE IN MANHOLE TO MEET THESE

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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

A circular stamp with the following text:

KENNETH R. MULLER
12548
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER

REVISION

SANTA FE COUNTY

PROJECT NAME:



PROJECT NAME

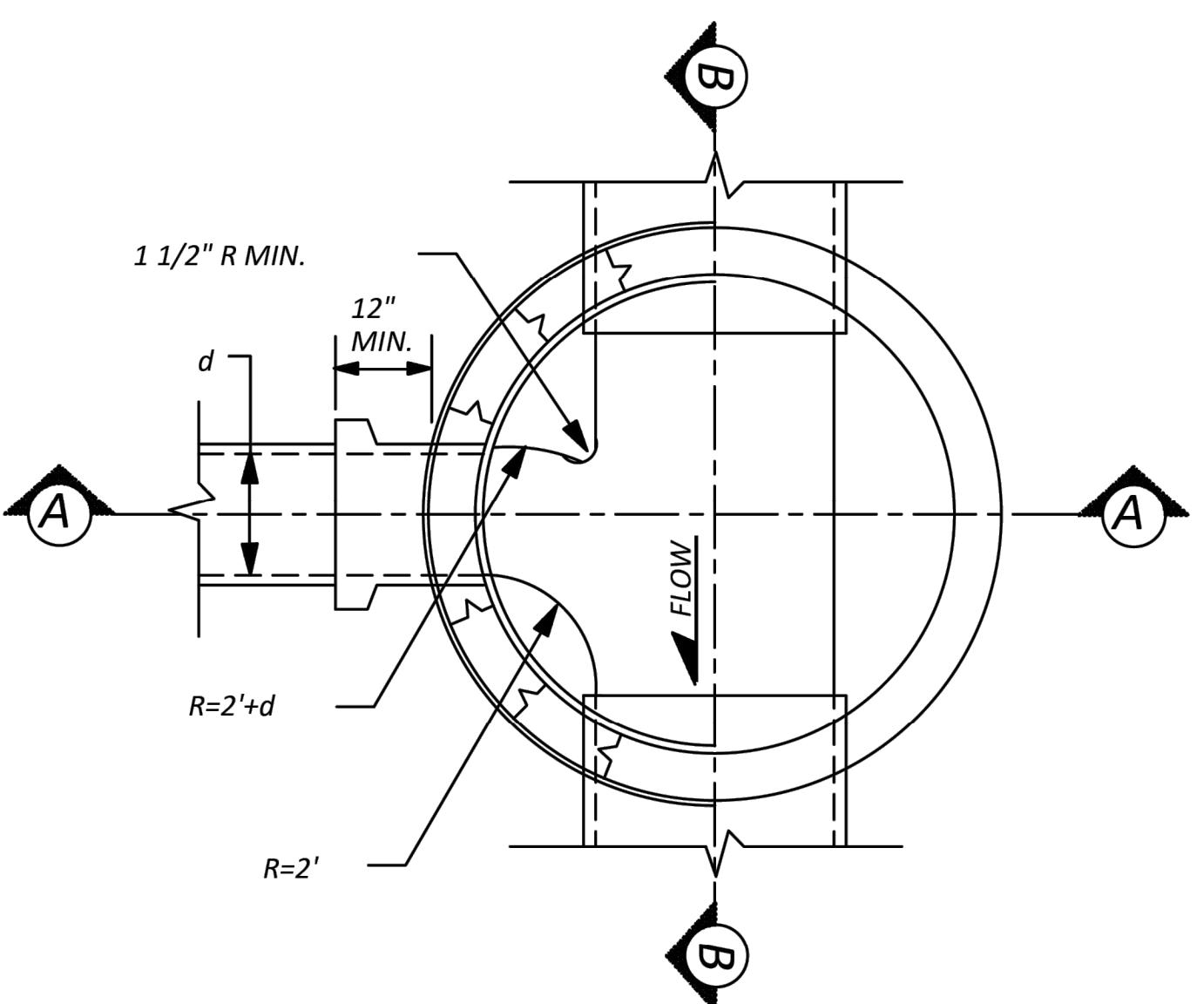
ABAJO LIFT STATION RE-DIRECT

SANTA FE COUNTY MANHOLES II

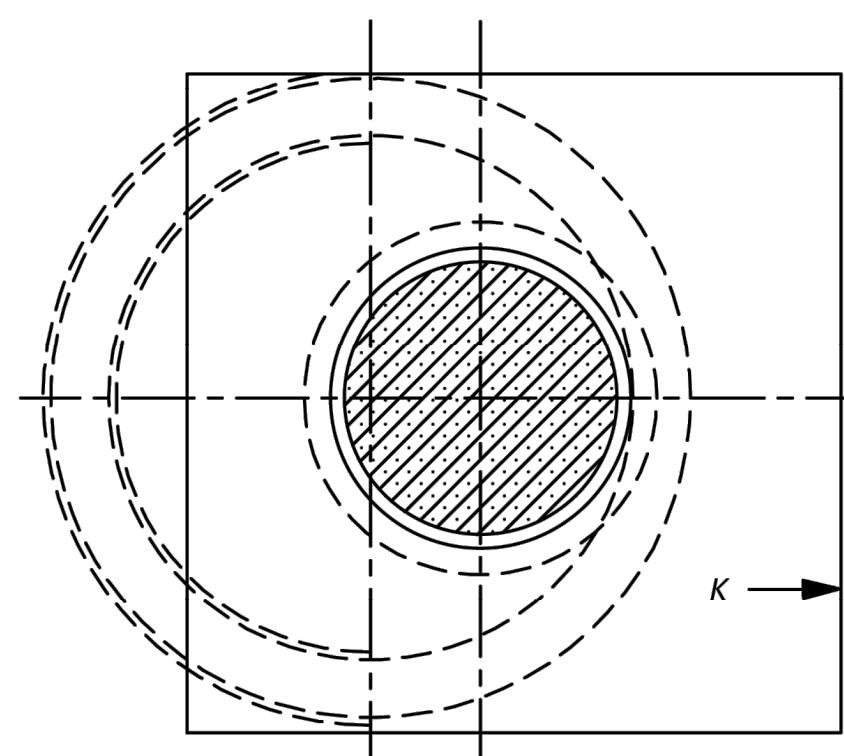
BY: *S. MORROW* REVIEWED BY: *S. MORROW*
SEPTEMBER 2025 SHEET *W-50*
BY: *HC*

**NOTE: REVISIONS TO THIS SHEET SHALL BE MADE UNDER
THE AUTHORITY OF SANTA FE COUNTY UTILITIES,
DIRECTOR, AND OR INFRASTRUCTURE MANAGER.**

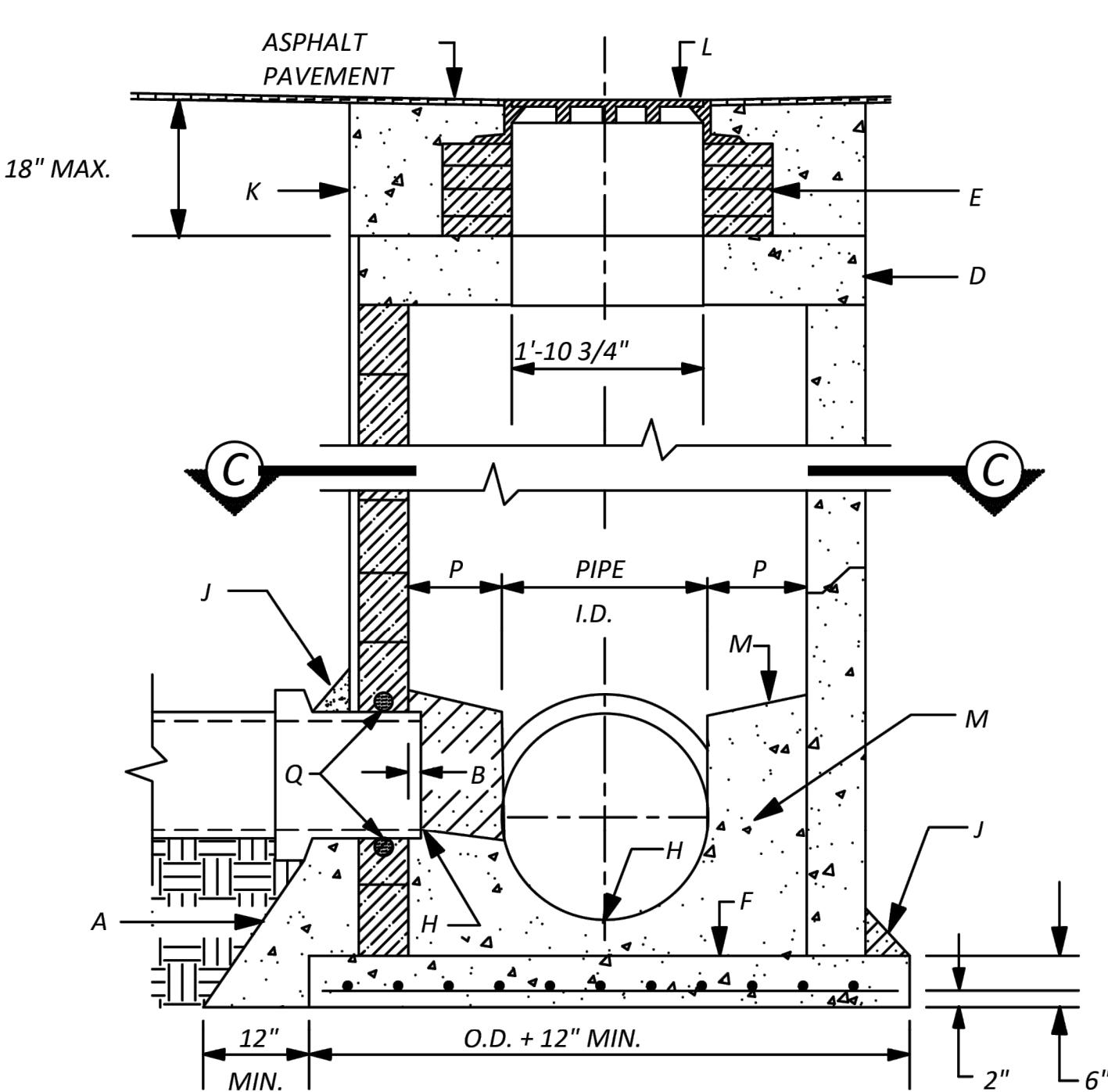
REVIEWED BY: <i>S. MORROW</i>	DATE: <i>SEPTEMBER 2025</i>	SHEET #: <i>W-509</i>
BY: <i>JJC</i>		



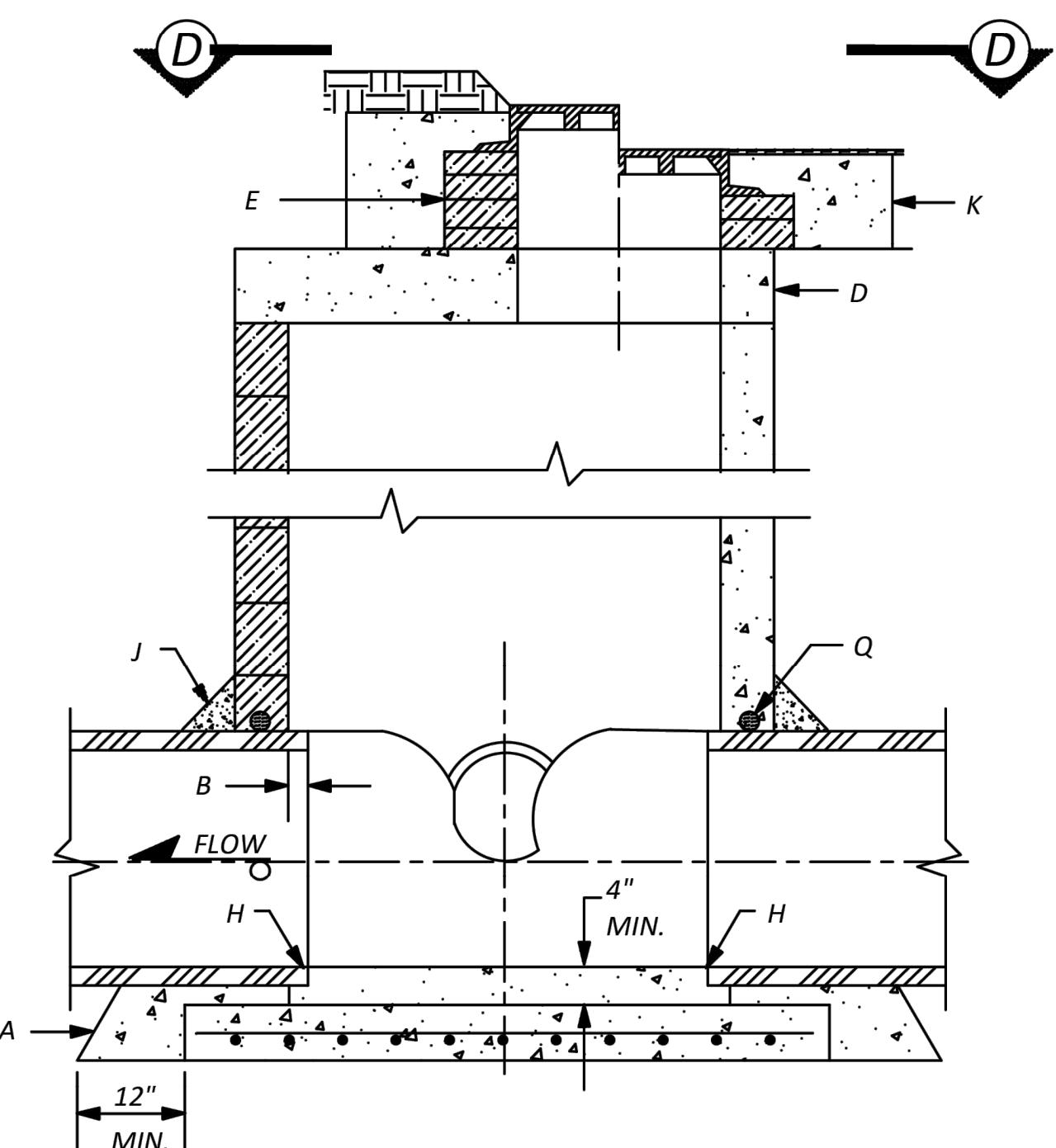
PLAN VIEW @ X-SECTION



PLAN VIEW @ X-SECTION



PROFILE VIEW @ X-SECTION



PROFILE VIEW @ X-SECTION

GENERAL NOTES

1. USE APPROVED MASTIC JOINT MATERIAL FOR ALL JOINTS.
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' & 8' MANHOLES.
 4. M.H. GREATER THAN 18' IN DEPTH SHALL ONLY BE CONSTRUCTED OF PRECAST CONCRETE SECTION.
5. USE NON-SHRINK GROUT FOR FILLETS AND PENETRATIONS.
6. POSITION M.H. OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.

CONSTRUCTION NOTES

- A. CONCRETE PIPE SUPPORT SHALL EXTEND OUTSIDE OF M.H. TO BELL OF FIRST JOINT & SHALL CRADLE PIPE TO SPRING LINE. NOT APPLICABLE FLEXIBLE PIPE.
- B. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRING LINE OF PIPE.
- D. PRECAST CONCRETE COVER
- E. USE MAX. 4 COURSES GR. MS BRICK ON UNPAVED STREET FOR FUTURE ADJ. 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.
- H. INV. ELEV. 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 SLOPE FOR GRADER USE UNPAVED AREAS.
- L. FRAME AND COVER, SEE DWG. # SAS-4
- 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

MOLZENCORBIN

2701 Miles Road SE
A buquerque, New Me ico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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THIS CONTRACT ALLOWS THE OWNER TO MAKE
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OF AN UNDISPUTED REQUEST FOR PAYMENT

REVISION

SANTA FE COUNTY

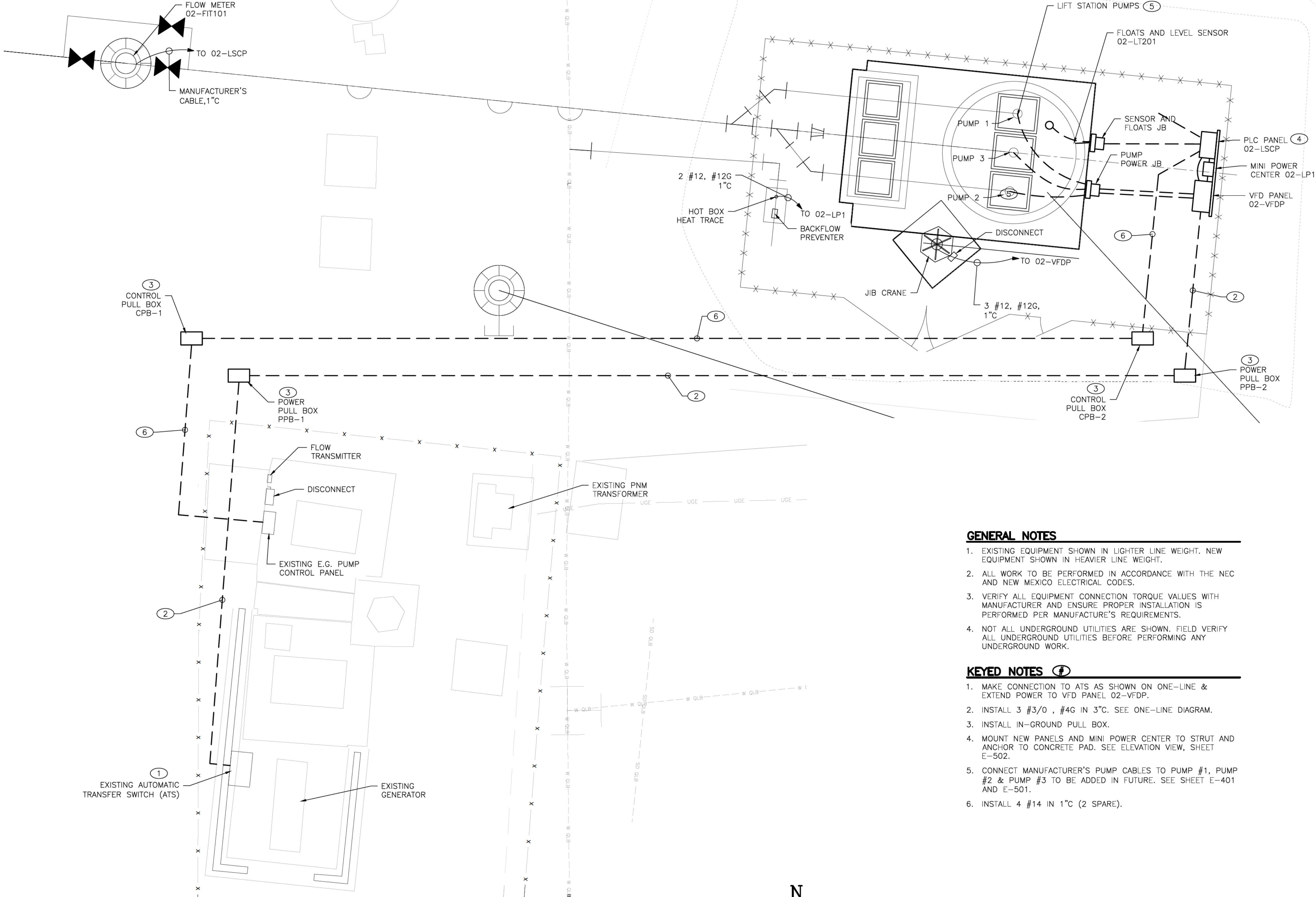


PROJECT NAME:
ABAJO LIFT STATION
RF-DIRECT

SANTA FE COUNTY MANHOLES III

APPROVED BY: *S. MORROW* REVIEWED BY: *S. MORROW*
DATE: SEPTEMBER 2025 SHEET: 1

MANHOLE TYPE "C" DETAIL / DWG. # SAS-14

**GENERAL NOTES**

1. EXISTING EQUIPMENT SHOWN IN LIGHTER LINE WEIGHT. NEW EQUIPMENT SHOWN IN HEAVIER LINE WEIGHT.
2. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE NEC AND NEW MEXICO ELECTRICAL CODES.
3. VERIFY ALL EQUIPMENT CONNECTION TORQUE VALUES WITH MANUFACTURER AND ENSURE PROPER INSTALLATION IS PERFORMED PER MANUFACTURER'S REQUIREMENTS.
4. NOT ALL UNDERGROUND UTILITIES ARE SHOWN. FIELD VERIFY ALL UNDERGROUND UTILITIES BEFORE PERFORMING ANY UNDERGROUND WORK.

KEYED NOTES

1. MAKE CONNECTION TO ATS AS SHOWN ON ONE-LINE & EXTEND POWER TO VFD PANEL 02-VFDP.
2. INSTALL 3 #3/O , #4G IN 3" C. SEE ONE-LINE DIAGRAM.
3. INSTALL IN-GROUND PULL BOX.
4. MOUNT NEW PANELS AND MINI POWER CENTER TO STRUT AND ANCHOR TO CONCRETE PAD. SEE ELEVATION VIEW, SHEET E-502.
5. CONNECT MANUFACTURER'S PUMP CABLES TO PUMP #1, PUMP #2 & PUMP #3 TO BE ADDED IN FUTURE. SEE SHEET E-401 AND E-501.
6. INSTALL 4 #14 IN 1" C (2 SPARE).

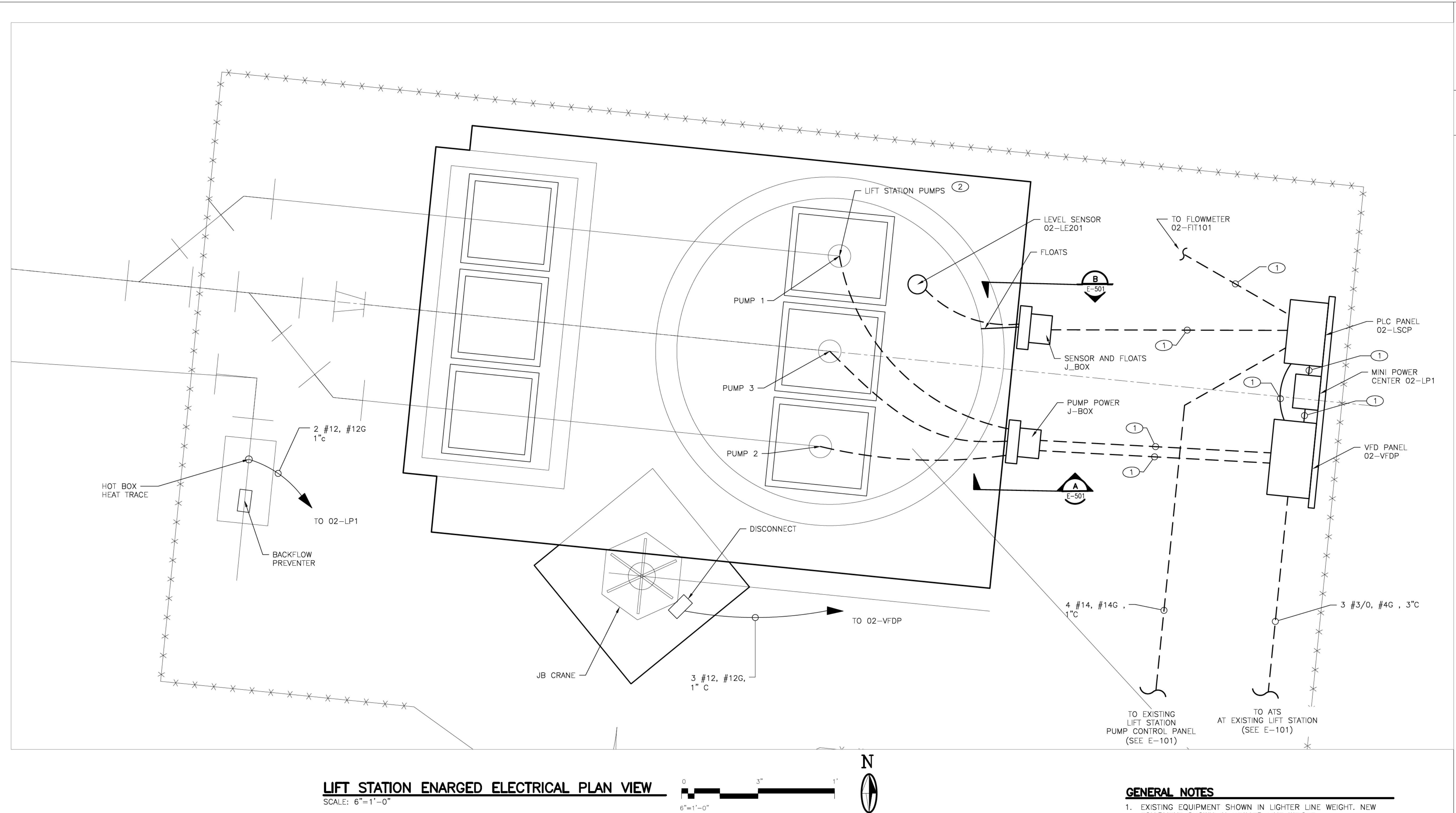
R. A. Hanks
ROBERT A. HANKS
NEW MEXICO
PROFESSIONAL ENGINEER
23949
9-18-2025

REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

	PROJECT NAME: ABAJO LIFT STATION RE-DIRECT
--	--

LIFT STATION ELECTRICAL SITE PLAN	
APPROVED BY:	REVIEWED BY: S. MORROW
DATE: JULY 2025	
DRAWN BY: AS-RH	SHEET: E-101



LIFT STATION ENARGED ELECTRICAL PLAN VIEW

SCALE: 6"=1'-0"

1

7

GENERAL NOTES

1. EXISTING EQUIPMENT SHOWN IN LIGHTER LINE WEIGHT. NEW EQUIPMENT SHOWN IN HEAVIER LINE WEIGHT.
2. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE NEC AND NEW MEXICO ELECTRICAL CODES.
3. VERIFY ALL EQUIPMENT CONNECTION TORQUE VALUES WITH MANUFACTURER AND ENSURE PROPER INSTALLATION IS PERFORMED PER MANUFACTURE'S REQUIREMENTS.
4. NOT ALL UNDERGROUND UTILITIES ARE SHOWN. FIELD VERIFY ALL UNDERGROUND UTILITIES BEFORE PERFORMING ANY UNDERGROUND WORK.

KEYED NOTES #

1. FOR DETAILS SEE SHEET E-502.
2. CONNECT MANUFACTURER'S PUMP CABLES TO PUMPS #1 & #2. PUMP #3 TO BE ADDED IN FUTURE. SEE SHEET E-102 AND E-502.

MOLZENCORBIN

2701 Miles Road SE
Abuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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A photograph of a professional engineer's license. The license is circular with a double-lined border. The outer ring contains the text "ROBERT A. HANKS" at the top and "NEW MEXICO" at the bottom. The inner circle contains the number "23949" in the center. A handwritten signature "Robert A. Hanks" is written across the top of the license. At the bottom, there is a handwritten date "9-18-2025" with a horizontal line through it.

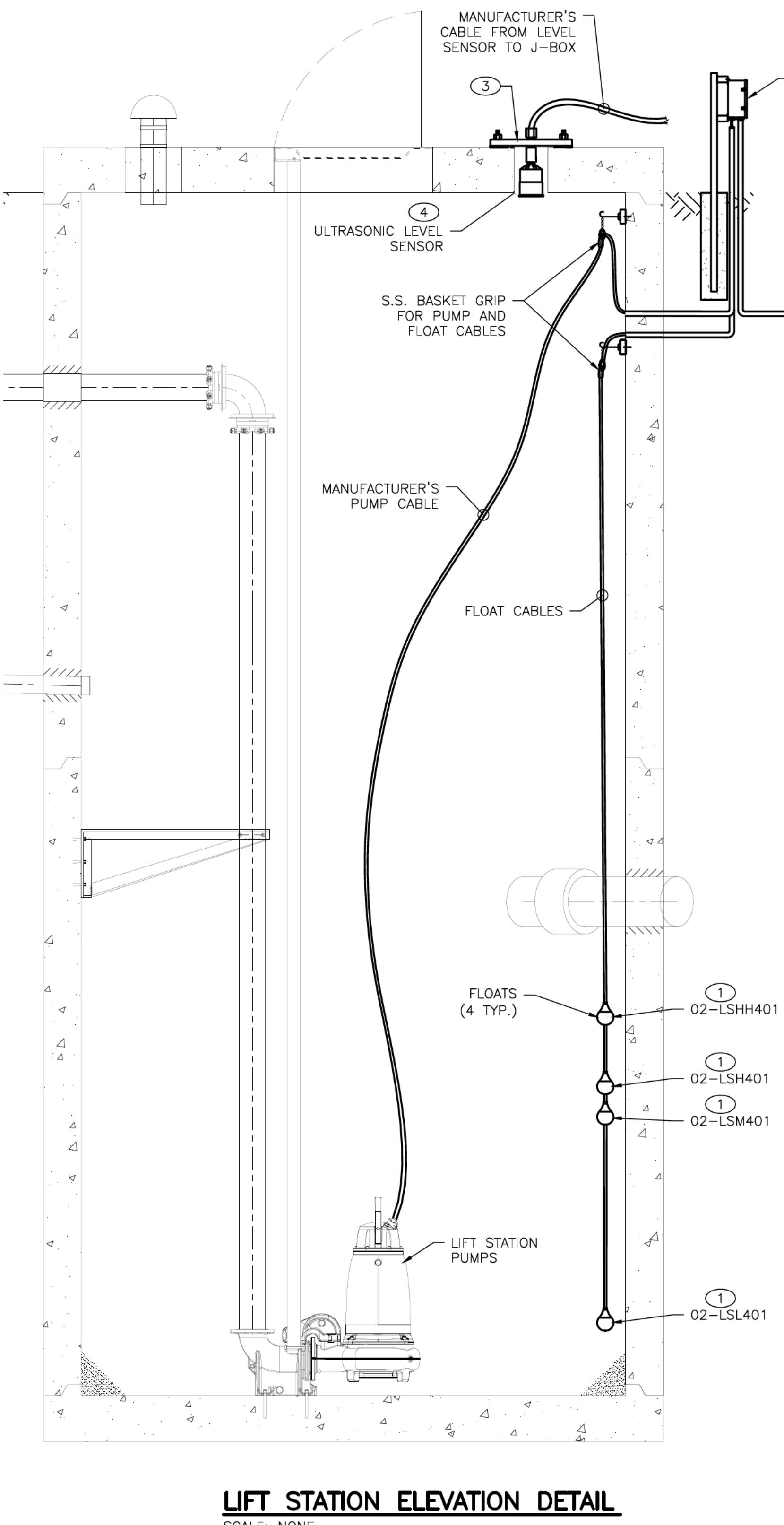
REVISION

**SANTA FE COUNTY
JES DIVISION 424 NM 599, SANTA FE, NM 87501**

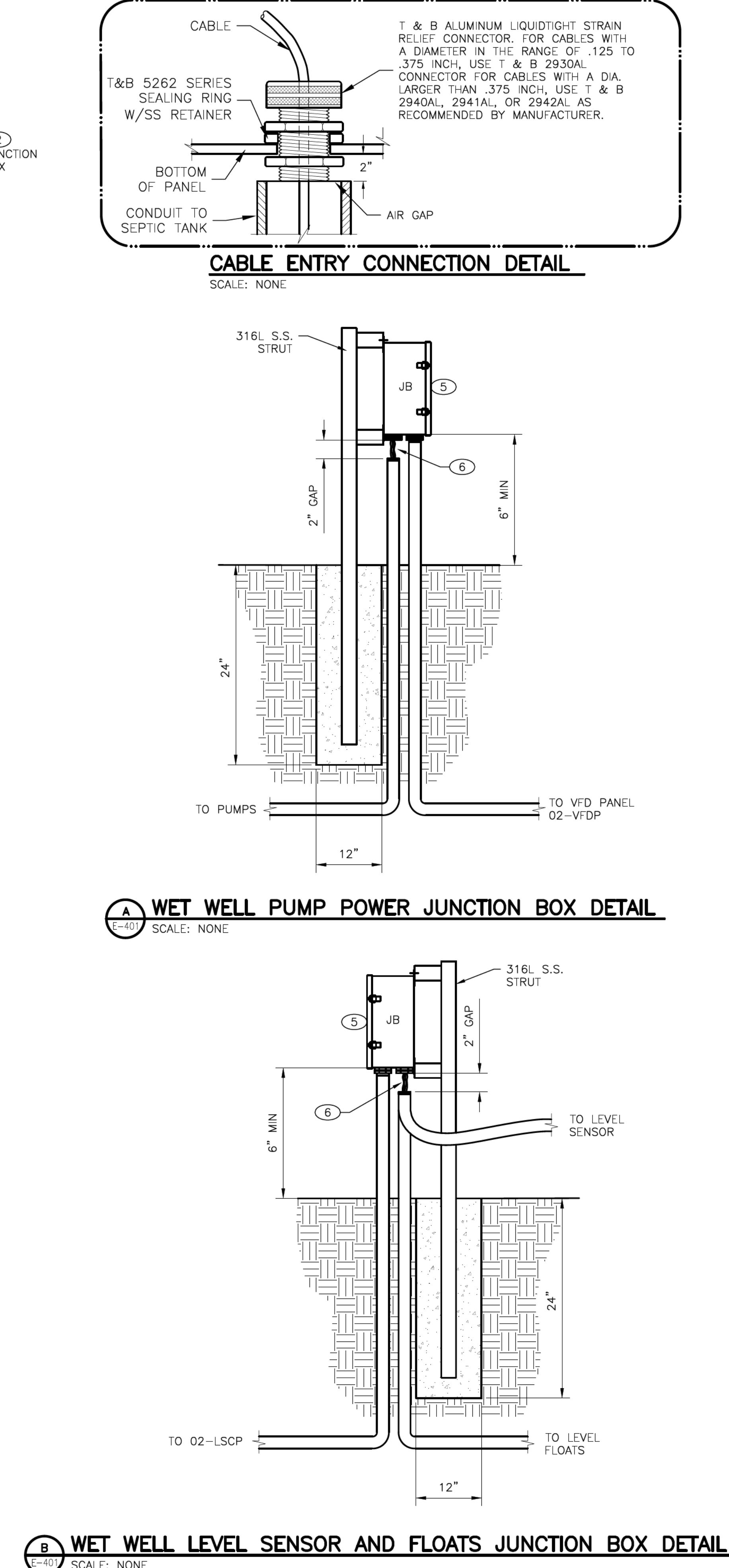
	<p><i>PROJECT NAME:</i></p> <p>ABAJO LIFT STATION</p>
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LIFT STATION ELECTRICAL SITE PLAN

APPROVED BY:	REVIEWED BY: S. MORROW
DATE: JULY 2025	SHEET :
DRAWN BY: AC BH	E 101



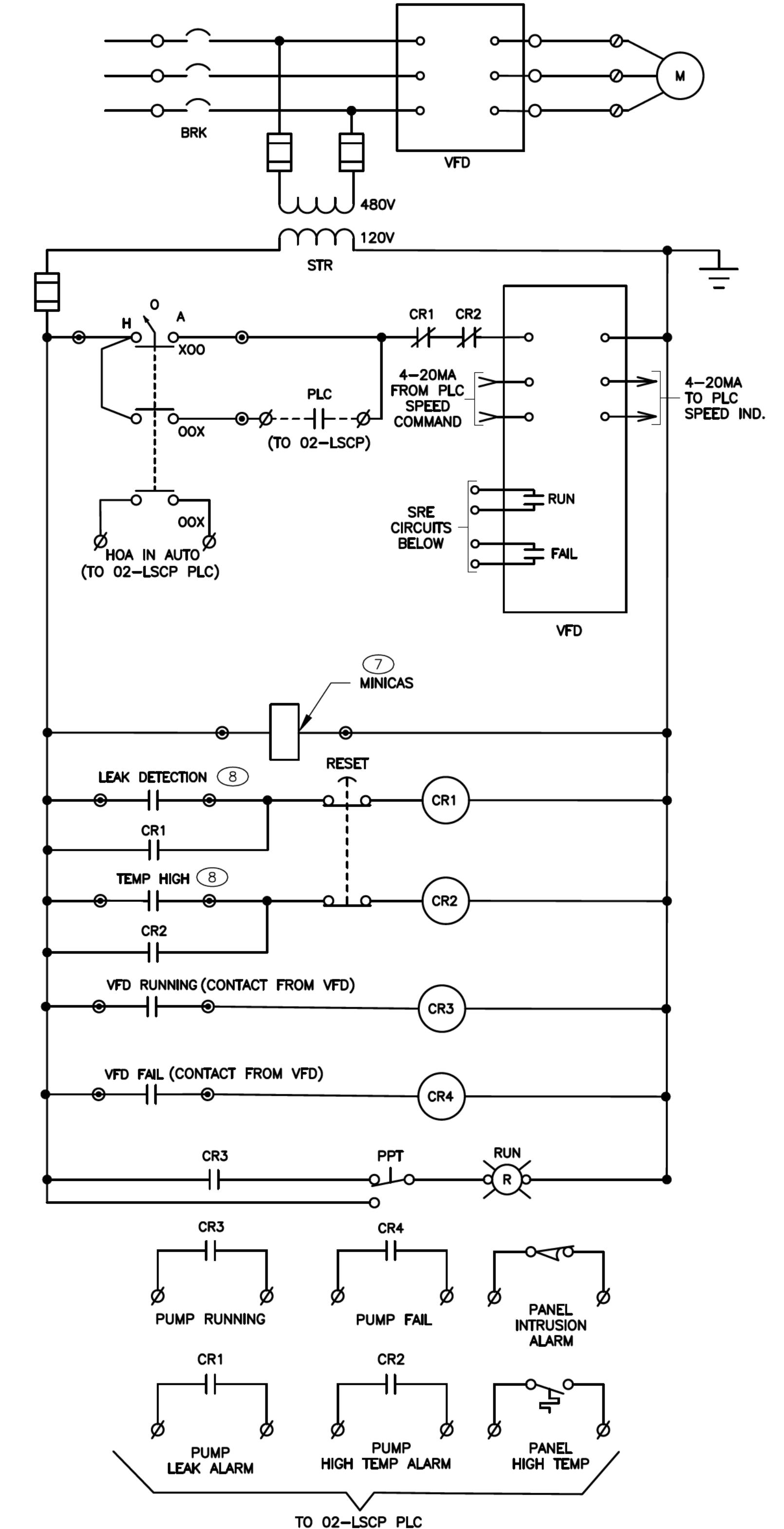
LIFT STATION ELEVATION DETAIL



B WET WELL LEVEL SENSOR AND FLOATS JUNCTION BOX DETAIL
E-401 SCALE: NONE

KEYED NOTES #

1. FOR FLOAT ELEVATIONS SEE SHEET W-106.
2. JUNCTION BOX SHOWN FOR DRAFTING PURPOSES. SEE SHEET E-401 FOR PUMP POWER AND LEVEL AND FLOAT SENSOR J-BOX LOCATIONS.
3. CORE DRILL 5" DIA. THRU CONCRETE COVER AND MOUNT SENSOR PER MANUFACTURERS RECOMMENDATIONS.
4. ENSURE LEVEL SENSOR IS MOUNTED IN LOCATION WHERE ENTIRE WET WELL LEVEL CAN BE MEASURED WITHOUT OBSTRUCTIONS.
5. CONTRACTOR TO FURNISH AND INSTALL 316L S.S. 6"X6" JUNCTION BOX ON STRUT 6" AFG.
6. FURNISH CABLE ENTRY CONNECTOR. SEE DETAIL, THIS SHEET.
7. MOUNT FLYGT MINICAS UNIT TO DINRAIL ON INTERIOR OF 02-VFDP.
8. CONTACTS FOR LEAK DETECTION AND HIGH TEMP ARE LOCATED IN MINICAS DEVICE.



CONTROL PANEL SCHEMATIC (TYP. FOR 2 PUMPS)

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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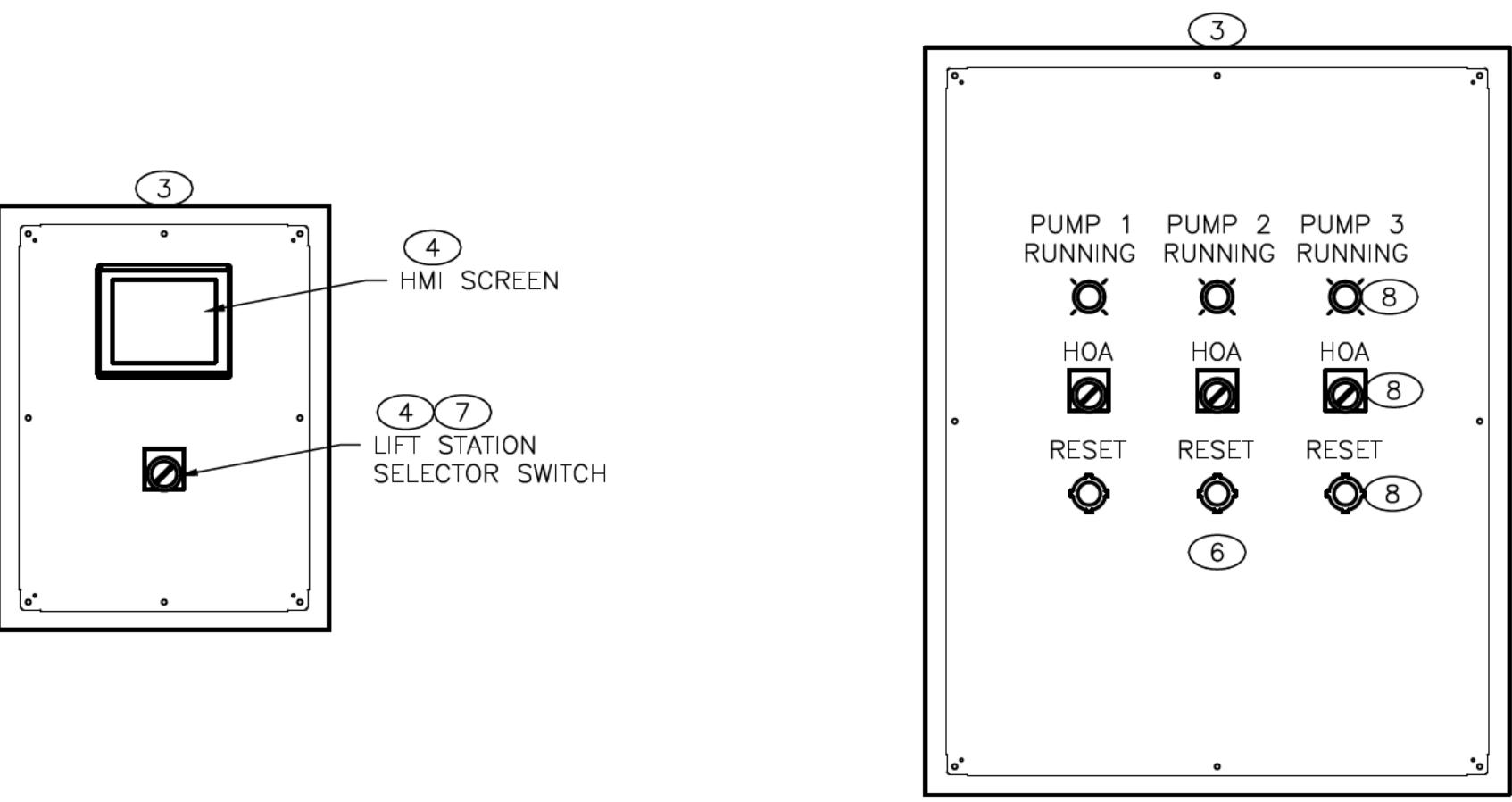
PROJECT NAME:
**ABAJO LIFT STATION
RE-DIRECT**

LIFT STATION ELECTRICAL DETAILS	
FD BY:	REVIEWED BY: S. MORROV
LY 2025	SHEET
BY: AS-RH	E-501

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
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505 242 0673 fax
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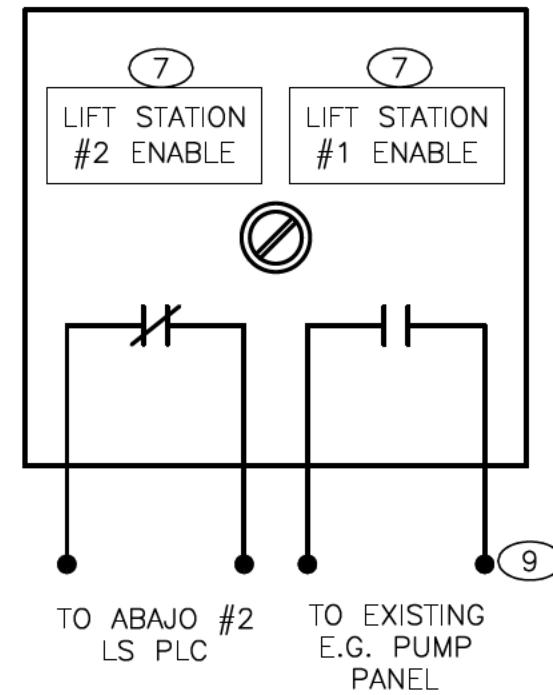


GENERAL NOTES

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE NEC AND NEW MEXICO ELECTRICAL CODES.
2. FURNISH ALL EQUIPMENT FOR INSTALLATION TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM.
3. VERIFY ALL EQUIPMENT CONNECTION TORQUE VALUES WITH MANUFACTURER AND ENSURE PROPER INSTALLATION IS PERFORMED PER MANUFACTURER'S REQUIREMENTS.

KEYED NOTES

1. MOUNT NEW TERMINAL STRIP TO INTERIOR OF EXISTING E.G. PUMP PANEL.
2. DISCONNECT EXISTING CABLE AND UTILIZE FOR CONNECTIONS TO TERMINAL STRIP AS SHOWN. CUT AND STRIP CABLE AS NECESSARY TO MAKE CONNECTIONS.
3. CONTROL PANEL AND VFD PANEL SHALL BE NEMA 4X, DOOR-IN-DOOR DESIGNS TO MOUNT HMI AND DEVICES. PROVIDE OUTER DOOR WITH 3-POINT LOCKABLE LATCH. SHOWN FOR GRAPHICAL PURPOSES. ACTUAL SIZES AND PANEL CONFIGURATIONS DETERMINED BY SYSTEM INTEGRATOR.
4. MOUNT HMI SCREEN AND SELECTOR SWITCH ON INNER DOOR OF CONTROL PANEL.
5. MINI POWER CENTER TO HAVE 10KVA TRANSFORMER AND 12 CKT LIGHTING PANEL.
6. MOUNT RUNNING LIGHT, HOA SWITCH, AND RESET BUTTONS ON INNER DOOR OF VFD PANEL.
7. PROVIDE LABELING FOR SELECTOR SWITCH AS FOLLOWS:
 - a. RIGHT SELECTION: "LIFT STATION #1 ENABLE"
 - b. LEFT SELECTION: "LIFT STATION #2 ENABLE"
8. FURNISH AND INSTALL PANEL HARDWARE FOR FUTURE PUMP #3 BUT DO NOT MAKE CONNECTIONS UNTIL PUMP #3 IS INSTALLED.
9. WIRE CONTACT IN SERIES WITH PHASE MONITOR RELAY LOCATED IN EXISTING E.G. PUMP PANEL. SEE PANEL MODIFICATIONS DETAIL, THIS SHEET.



SELECTOR SWITCH WIRING DIAGRAM

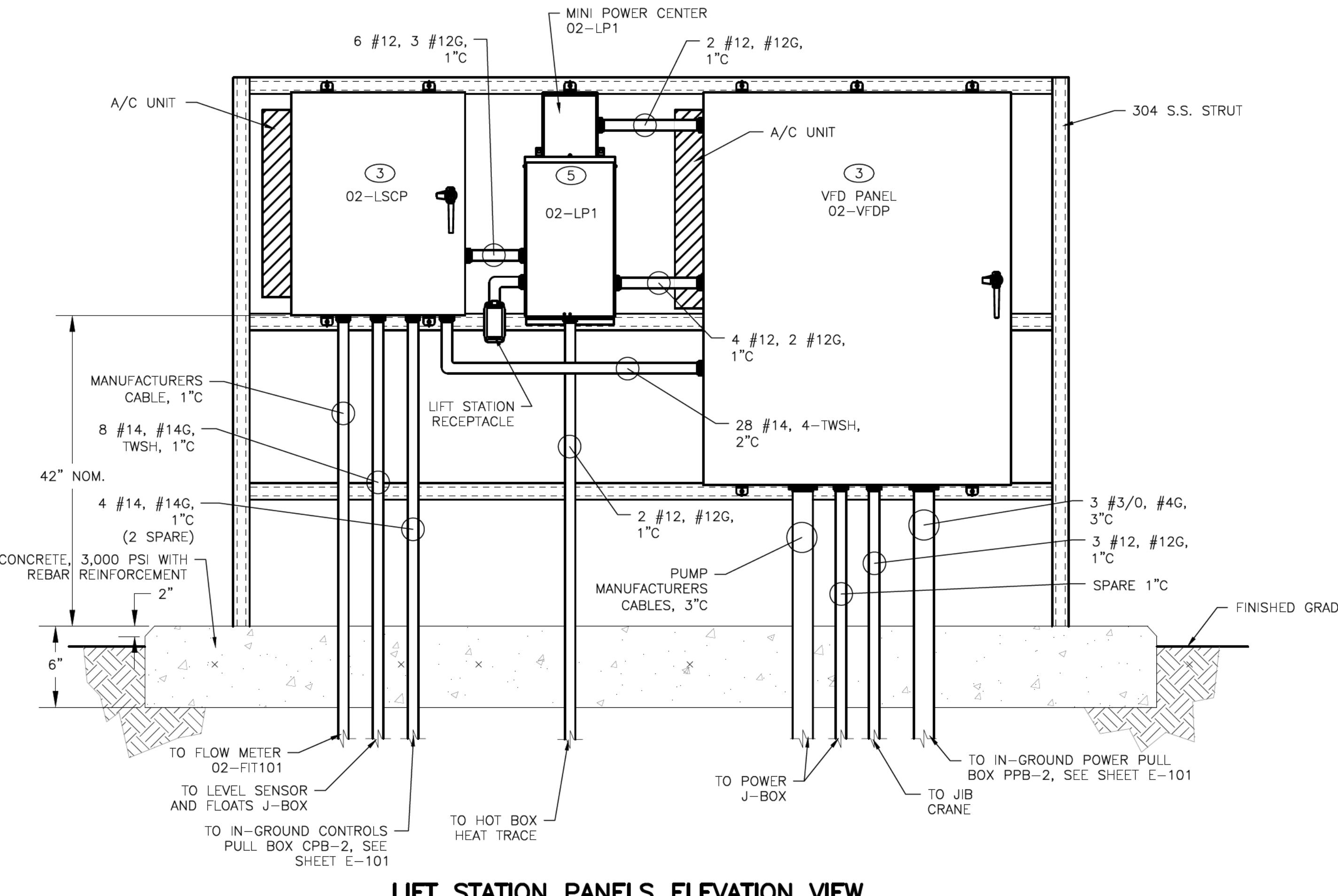
SCALE: NONE

CONTROL PANEL 02-LSCP (INNER DOOR)

SCALE: NONE

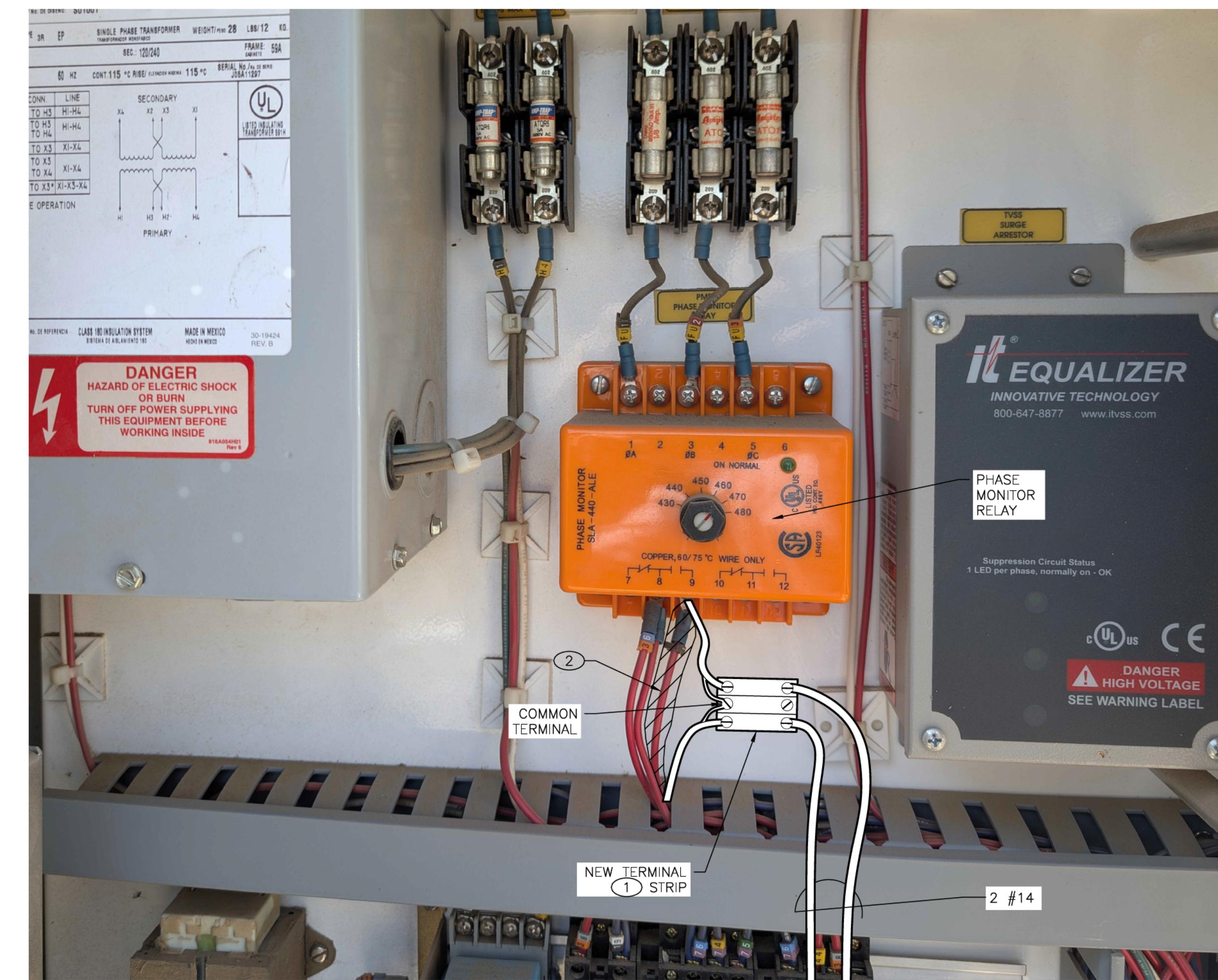
VFD PANEL 02-VFDP (INNER DOOR)

SCALE: NONE



LIFT STATION PANELS ELEVATION VIEW

SCALE: NONE



EXISTING E.G. PUMP PANEL MODIFICATIONS

SCALE: NONE

R. J. Hanks
ROBERT A. HANKS
NEW MEXICO
PROFESSIONAL ENGINEER
23949
9-18-2025

REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

LIFT STATION ELECTRICAL DETAILS

APPROVED BY: REVIEWED BY: S. MORROW

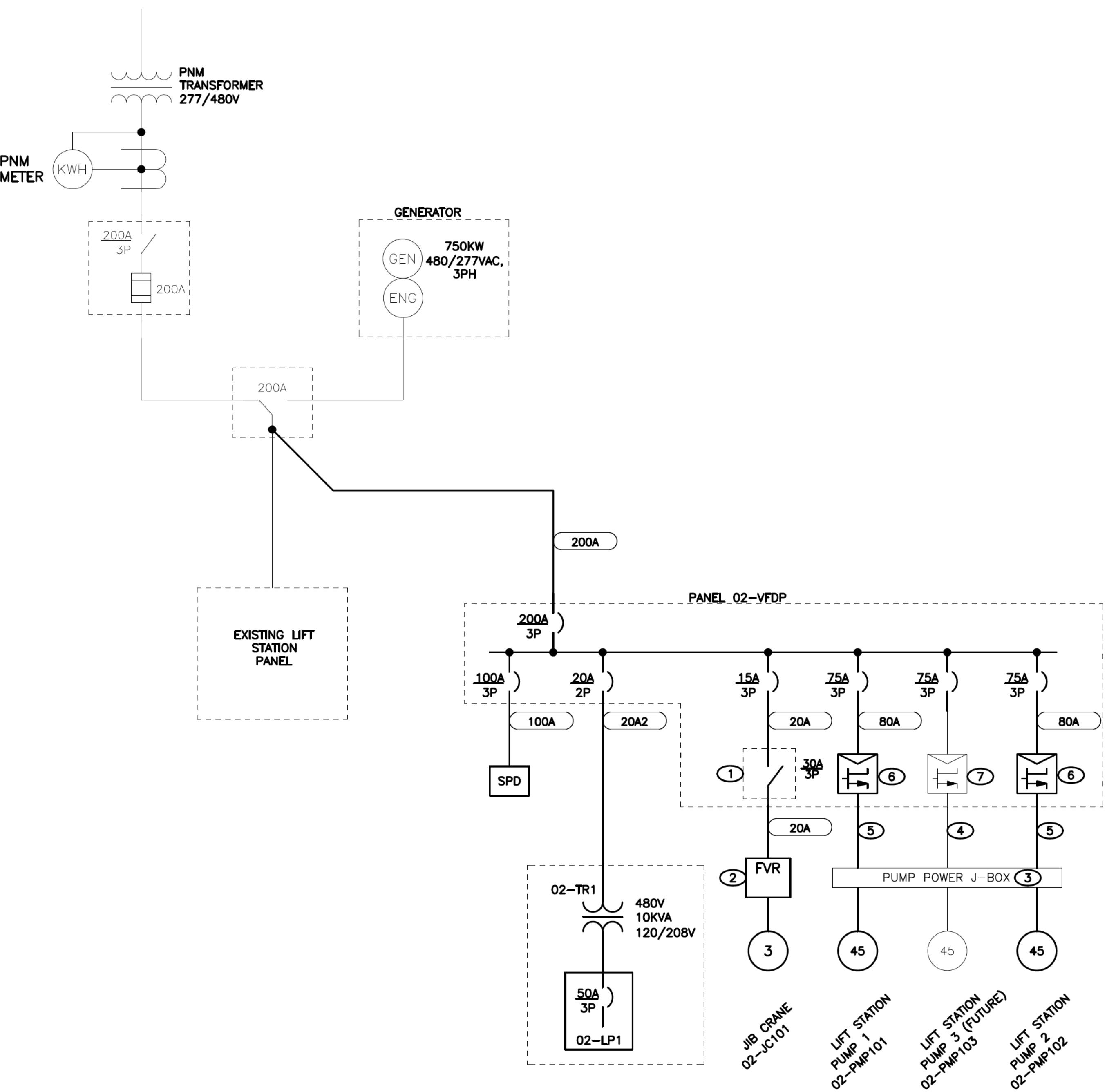
DATE: JULY 2025 DRAWN BY: AS-RH

SHEET: E-502

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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ONE LINE DIAGRAM

SCALE: NONE

POWER CONDUIT SCHEDULE	
NAME	COPPER
20AS	3/4" C, #12H, #12N, #12G
20A2	3/4" C, 2 - #12H, #12G
20A	3/4" C, 3 - #12, #12G
30AS	3/4" C, #10H, #10N, #10G
30A	3/4" C, 3 - #10, #10G
50A	1" C, 3 - #8, #8G
60A	1" C, 3 - #6, #8G
80A	1 1/2" C, 3 - #4, #8G
80AS	1 1/2" C, 2 - #4, #8G
100A	1 1/2" C, 3 - #2, #6G
125A	2" C, 3 - #1, #6G
150A	2" C, 3 - #10, #6G
175A	2" C, 3 - #2/0, #4G
200A	2 1/2" C, 3 - #3/0, #4G

GENERAL NOTES

- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE NEC AND NEW MEXICO ELECTRICAL CODES.
- FURNISH ALL EQUIPMENT FOR INSTALLATION TO ENSURE COMPLETE AND OPERATIONAL SYSTEM.
- LIGHT PEN WEIGHTS INDICATE EXISTING EQUIPMENT.

KEYED NOTES

- FURNISH AND INSTALL DISCONNECT AT CRANE.
- CONNECT CONDUCTORS TO STARTER PANEL FURNISHED WITH CRANE EQUIPMENT.
- INCLUDE TERMINALS IN J-BOX FOR FUTURE LIFT PUMP 02-PMP103.
- RUN 1" CONDUIT ONLY FROM 02-VFDP TO J-BOX. CONDUCTORS TO BE INSTALLED IN FUTURE.
- COMBINE PUMP 1 AND 2 MANUFACTURER'S CABLES INTO ONE 3" CONDUIT.
- VFD SHALL BE 60HP AND COMPLY WITH SPECIFICATION 26 29 23 - VARIABLE FREQUENCY DRIVE.
- LEAVE ROOM IN PANEL FOR FUTURE VFD.

02-LP01						
CKT. NO.	TRIP/ POLES	LOAD SERVED	PHASE AMPS		LOAD SERVED	TRIP/ POLES CKT. NO.
			AMPS	AMPS		
1	15/1	PLC PANEL 02-LSCP	8	A	5	PLC PANEL A/C UNIT 15/1 2
3	15/1	VFD PANEL 02-VFDP A/C UNIT	5	B	5	LIFT STATION RECEPT. 15/1 4
5	15/1	HOT BOX HEAT TRACE	5	A	5	PLC PANEL HEATER 15/1 6
7	15/1	VFD PANEL HEATER	5	B	SPARE	15/1 8
9	15/1	SPARE		A	SPDD	20/2 10
11	15/1	SPARE		B		20/2 12

LINE-NT VOLTS 120
LINE-LINE VOLTS 240
1 PHASE 3 WIRE

Totals:
Phase A = 23 Amps
Phase B = 15 Amps
Times 1.25 = 29 Amps
6 kVA

POLES 12
BUS AMPS 100A
MCB AMPS 50A
WSTND & CB AIC 22kA
AVAIL FAULT KAIC

ENCLOSURE: NEMA 3R

REVISION

SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

LIFT STATION ELECTRICAL ONE LINE DIAGRAM

APPROVED BY: REVIEWED BY: S. MORROW
DATE: JULY 2025 DRAWN BY: AS-RH SHEET: E-601

SANTA FE COUNTY - ABAJO LIFT STATION - INSTRUMENTATION & CONTROL WIRING SCHEDULE AND I/O TAG LIST

ABAJO LIFT STATION I/O - 02-LSCP			Allen-Bradley CompactLogix PLC (5069-L330ER)								
AREA	TAG NUMBER	INSTRUMENT OR DEVICE	DESIGNATION	FROM	TYPE OF WIRE	TO	TYPE	RIO MODULE CONNECTION			
##	02	02-HS201	Abajo LS#2 Lift Pump #1	Abajo LS#2 Lift Pump #1 HOA in AUTO	Abajo LS#2 Lift Pump #1 HOA	2#14, #14G	TB#1 DI0A/B	DI	DI Module #1, PT 0 (DC)		
##	02	02-YS201	Abajo LS#2 Lift Pump #1	Abajo LS#2 Lift Pump #1 RUNNING	Abajo LS#2 Lift Pump #1 VFD Circuit	2#14, #14G	TB#1 DI1A/B	DI	DI Module #1, PT 1 (DC)		
##	02	02-XS201	Abajo LS#2 Lift Pump #1	Abajo LS#2 Lift Pump #1 VFD FAIL	Abajo LS#2 Lift Pump #1 VFD Circuit	2#14, #14G	TB#1 DI2A/B	DI	DI Module #1, PT 2 (DC)		
##	02	02-NS201	Abajo LS#2 Lift Pump #1	Abajo LS#2 Lift Pump #1 LEAK	Abajo LS#2 Lift Pump #1 Leak Alarm Contact	2#14, #14G	TB#1 DI3A/B	DI	DI Module #1, PT 3 (DC)		
##	02	02-TSH201	Abajo LS#2 Lift Pump #1	Abajo LS#2 Lift Pump #1 Motor TEMP HIGH	Abajo LS#2 Lift Pump #1 Motor High Temp Contact	2#14, #14G	TB#1 DI4A/B	DI	DI Module #1, PT 4 (DC)		
02	02-HS202	Abajo LS#2 Lift Pump #2	Abajo LS#2 Lift Pump #2 HOA in AUTO	Abajo LS#2 Lift Pump #2 HOA	2#14, #14G	TB#1 DI5A/B	DI	DI Module #1, PT 5 (DC)			
02	02-YS202	Abajo LS#2 Lift Pump #2	Abajo LS#2 Lift Pump #2 RUNNING	Abajo LS#2 Lift Pump #2 VFD Circuit	2#14, #14G	TB#1 DI6A/B	DI	DI Module #1, PT 6 (DC)			
02	02-XS202	Abajo LS#2 Lift Pump #2	Abajo LS#2 Lift Pump #2 VFD FAIL	Abajo LS#2 Lift Pump #2 VFD Circuit	2#14, #14G	TB#1 DI7A/B	DI	DI Module #1, PT 7 (DC)			
02	02-NS202	Abajo LS#2 Lift Pump #2	Abajo LS#2 Lift Pump #2 LEAK	Abajo LS#2 Lift Pump #2 Leak Alarm Contact	2#14, #14G	TB#1 DI8A/B	DI	DI Module #1, PT 8 (DC)			
02	02-TSH202	Abajo LS#2 Lift Pump #2	Abajo LS#2 Lift Pump #2 Motor TEMP HIGH	Abajo LS#2 Lift Pump #2 Motor High Temp Contact	2#14, #14G	TB#1 DI9A/B	DI	DI Module #1, PT 9 (DC)			
##	02	02-LSL401	Abajo LS#2 Lift Station Wetwell LOW Float	Abajo LS#2 Lift Station Wetwell All Pumps STOP	Abajo LS#2 Lift Station Wetwell LOW Float	2#14, #14G	TB#1 DI10A/B	DI	DI Module #1, PT 10 (DC)		
##	02	02-LSM401	Abajo LS#2 Lift Station Wetwell MIDLEVEL Float	Abajo LS#2 Lift Station Wetwell Lead Pump START	Abajo LS#2 Lift Station Wetwell MIDLEVEL Float	2#14, #14G	TB#1 DI11A/B	DI	DI Module #1, PT 11 (DC)		
##	02	02-LSH401	Abajo LS#2 Lift Station Wetwell HIGH Float	Abajo LS#2 Lift Station Wetwell Lag Pump START	Abajo LS#2 Lift Station Wetwell HIGH Float	2#14, #14G	TB#1 DI12A/B	DI	DI Module #1, PT 12 (DC)		
##	02	02-ZS101	Abajo LS#2 PLC Panel 02-LSCP Intrusion Switch	Abajo LS#2 PLC PANEL 02-LSCP INTRUSION	Abajo LS#2 PLC Panel 02-LSCP Intrusion Switch	2#14, #14G	TB#1 DI13A/B	DI	DI Module #1, PT 13 (DC)		
##	02	02-ZS102	Abajo LS#2 VFD Panel 02-VFDP Intrusion Switch	Abajo LS#2 VFD PANEL 02-VFDP INTRUSION	Abajo LS#2 VFD Panel 02-VFDP Intrusion Switch	2#14, #14G	TB#1 DI14A/B	DI	DI Module #1, PT 14 (DC)		
02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#1 DI15A/B	DI	DI Module #1, PT 15 (DC)			
##	02	02-HS203	Abajo LS#2 Lift Pump #3 (Future)	Abajo LS#2 Lift Pump #3 HOA in AUTO (Future)	Abajo LS#2 Lift Pump #3 HOA (Future)	2#14, #14G	TB#2 DI0A/B	DI	DI Module #2, PT 0 (DC)		
##	02	02-YS203	Abajo LS#2 Lift Pump #3 (Future)	Abajo LS#2 Lift Pump #3 RUNNING (Future)	Abajo LS#2 Lift Pump #3 VFD Circuit (Future)	2#14, #14G	TB#2 DI1A/B	DI	DI Module #2, PT 1 (DC)		
##	02	02-XS203	Abajo LS#2 Lift Pump #3 (Future)	Abajo LS#2 Lift Pump #3 VFD FAIL (Future)	Abajo LS#2 Lift Pump #3 VFD Circuit (Future)	2#14, #14G	TB#2 DI2A/B	DI	DI Module #2, PT 2 (DC)		
##	02	02-NS203	Abajo LS#2 Lift Pump #3 (Future)	Abajo LS#2 Lift Pump #3 LEAK (Future)	Abajo LS#2 Lift Pump #3 Leak Alarm Contact (Future)	2#14, #14G	TB#2 DI3A/B	DI	DI Module #2, PT 3 (DC)		
##	02	02-TSH203	Abajo LS#2 Lift Pump #3 (Future)	Abajo LS#2 Lift Pump #3 Motor TEMP HIGH (Future)	Abajo LS#2 Lift Pump #3 Motor High Temp Contact (Future)	2#14, #14G	TB#2 DI4A/B	DI	DI Module #2, PT 4 (DC)		
02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#2 DI5A/B	DI	DI Module #2, PT 5 (DC)			
##	02	02-LSHH401	Abajo LS#2 Lift Station Wetwell HIGH-HIGH Float	Abajo LS#2 Lift Station Wetwell Level HIGH-HIGH Alarm	Abajo LS#2 Lift Station Wetwell HIGH-HIGH Float	2#14, #14G	TB#2 DI6A/B	DI	DI Module #2, PT 6 (DC)		
##	02	02-ZS401	Abajo LS#2 Wetwell Hatch Intrusion Switch	Abajo LS#2 Wetwell Hatch INTRUSION	Abajo LS#2 Wetwell Hatch Intrusion Switch	2#14, #14G	TB#2 DI7A/B	DI	DI Module #2, PT 7 (DC)		
##	02	02-TSH101	Abajo LS#2 PLC Panel 02-LSCP Temp Switch	Abajo LS#2 PLC Panel 02-LSCP Temp HIGH	Abajo LS#2 PLC Panel 02-LSCP Temp Switch	2#14, #14G	TB#2 DI8A/B	DI	DI Module #2, PT 8 (DC)		
##	02	02-TSH102	Abajo LS#2 VFD Panel 02-VFDP Temp Switch	Abajo LS#2 VFD Panel 02-VFDP Temp HIGH	Abajo LS#2 VFD Panel 02-VFDP Temp Switch	2#14, #14G	TB#2 DI9A/B	DI	DI Module #2, PT 9 (DC)		
##	02	02-ESL101	Abajo LS#2 PLC Panel 02-LSCP UPS	Abajo LS#2 PLC Panel 02-LSCP UPS Battery LOW	Abajo LS#2 PLC Panel 02-LSCP UPS	2#14, #14G	TB#2 DI10A/B	DI	DI Module #2, PT 10 (DC)		
02	02-FQIT101	Abajo LS#2 Effluent Flowmeter Transmitter	Abajo LS#2 Effluent TOTAL FLOW	Abajo LS#2 Effluent Flowmeter Transmitter (Inside 02-LSCP)	2#14, #14G	TB#2 DI11A/B	DI	DI Module #2, PT 11 (DC)			
02	02-HS301	Abajo LS#2 Lift Station ENABLE Selector Switch	Abajo LS#2 Lift Station ENABLE	Abajo LS#2 Lift Station ENABLE Selector Switch	2#14, #14G	TB#2 DI12A/B	DI	DI Module #2, PT 12 (DC)			
02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#2 DI13A/B	DI	DI Module #2, PT 13 (DC)			
02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#2 DI14A/B	DI	DI Module #2, PT 14 (DC)			
02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#2 DI15A/B	DI	DI Module #2, PT 15 (DC)			
##	02	02-YK201	Abajo LS#2 Lift Pump #1 VFD	Abajo LS#2 Lift Pump #1 VFD RUN Command	Abajo LS#2 Lift Pump #1 VFD	2#14, #14G	TB#1 DO0A/B	DO	DO Module #3, PT 0 (DC)		
02	02-YK202	Abajo LS#2 Lift Pump #2 VFD	Abajo LS#2 Lift Pump #2 VFD RUN Command	Abajo LS#2 Lift Pump #2 VFD	2#14, #14G	TB#1 DO1A/B	DO	DO Module #3, PT 1 (DC)			
##	02	02-YK203	Abajo LS#2 Lift Pump #3 VFD (Future)	Abajo LS#2 Lift Pump #3 VFD RUN Command (Future)	Abajo LS#2 Lift Pump #3 VFD (Future)	2#14, #14G	TB#1 DO2A/B	DO	DO Module #3, PT 2 (DC)		
02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#1 DO3A/B	DO	DO Module #3, PT 3 (DC)			
02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#1 DO4A/B	DO	DO Module #3, PT 4 (DC)			
02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#1 DO5A/B	DO	DO Module #3, PT 5 (DC)			
02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#1 DO6A/B	DO	DO Module #3, PT 6 (DC)			
02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#1 DO7A/B	DO	DO Module #3, PT 7 (DC)			
##	02	02-SI201	Abajo LS#2 Lift Pump #1	Abajo LS#2 Lift Pump #1 SPEED Indication	Abajo LS#2 Lift Pump #1 VFD	TWSH	TB#1 AI0A/B	AI	AI Module #4, PT 0 (DC)		
02	02-SI202	Abajo LS#2 Lift Pump #2	Abajo LS#2 Lift Pump #2 SPEED Indication	Abajo LS#2 Lift Pump #2 VFD	TWSH	TB#1 AI1A/B	AI	AI Module #4, PT 1 (DC)			
##	02	02-SI203	Abajo LS#2 Lift Pump #3 (Future)	Abajo LS#2 Lift Pump #3 SPEED Indication (Future)	Abajo LS#2 Lift Pump #3 VFD (Future)	TWSH	TB#1 AI2A/B	AI	AI Module #4, PT 2 (DC)		
##	02	02-LIT201	Abajo LS#2 Wetwell Level Transmitter	Abajo LS#2 Wetwell LEVEL	Abajo LS#2 Wetwell Level Transmitter (Inside 02-LSCP)	TWSH	TB#1 AI3A/B	AI	AI Module #4, PT 3 (DC)		
##	02	02-FIT101	Abajo LS#2 Effluent Flowmeter Transmitter	Abajo LS#2 Effluent FLOW	Abajo LS#2 Effluent Flowmeter Transmitter (Inside 02-LSCP)	TWSH	TB#1 AI4A/B	AI	AI Module #4, PT 4 (DC)		
02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	TWSH	TB#1 AI5A/B	AI	AI Module #4, PT 5 (DC)			
02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	TWSH	TB#1 AI6A/B	AI	AI Module #4, PT 6 (DC)			
02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	TWSH	TB#1 AI7A/B	AI	AI Module #4, PT 7 (DC)			
##	02	02-SC201	Abajo LS#2 Lift Pump #1 VFD	Abajo LS#2 Lift Pump #1 SPEED Control	Abajo LS#2 Lift Pump #1 VFD	TWSH	TB#1 AO0A/B	AO	AO Module #5, PT 0 (DC)		
02	02-SC202	Abajo LS#2 Lift Pump #2 VFD	Abajo LS#2 Lift Pump #2 SPEED Control	Abajo LS#2 Lift Pump #2 VFD	TWSH	TB#1 AO1A/B	AO	AO Module #5, PT 1 (DC)			
##	02	02-SC203	Abajo LS#2 Lift Pump #3 VFD (Future)	Abajo LS#2 Lift Pump #3 SPEED Control (Future)	Abajo LS#2 Lift Pump #3 VFD (Future)	TWSH	TB#1 AO2A/B	AO	AO Module #5, PT 2 (DC)		
02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	TWSH						

LEGEND

Part of Multiconductor Bundle or Single Communication Cable

**

New Circuit Connections

BOLD

A circular stamp with the following text:

ROBERT A. HANKS
NEW MEXICO
23949
PROFESSIONAL ENGINEER

A handwritten signature "R. A. Hanks" is written across the top of the stamp. Below the stamp, the date "9-18-2025" is handwritten.

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SANTA FE COUNTY ES DIVISION 424 NM 599, SANTA FE, NM 87501

PROJECT NAME:
**ABAJO LIFT STATION
RE-DIRECT**

**LIFT STATION CONTROL WIRING & I/O
TAG LIST**