



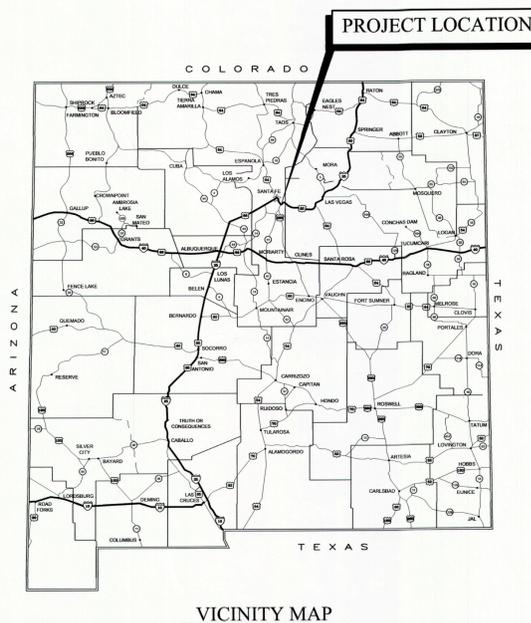
SANTA FE COUNTY  
100 CATRON STREET  
SANTA FE, NEW MEXICO

MARCH 2020

construction plans for the

CANONCITO-ELDORADO WATERLINE

AGREEMENT SFC # 2019-0007-PW/CW



VICINITY MAP

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SEQUENCE	SHEET	DESCRIPTION	SEQUENCE	SHEET	DESCRIPTION
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2	G-002	CONSTRUCTION NOTES AND PUBLIC UTILITY CONTACT INFORMATION	43	W-217	LINE 1 PLAN AND PROFILE STA. 190+00 TO 202+00
3	G-003	CONSTRUCTION NOTES AND PUBLIC UTILITY CONTACT INFORMATION	44	W-218	LINE 1 PLAN AND PROFILE STA. 202+00 TO 211+01
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4	C-101	HONDO 2 PUMP STA. - DEMOLITION PLAN	45	W-219	LINE 2 AND LINE 3 INDEX MAP AND GENERAL NOTES
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18	W-101	HONDO 2 PUMP STA. PIPING - PLAN AND SECTION	59	W-233	LINE 3 PLAN AND PROFILE STA. 142+00 TO 154+00
19	W-102	HONDO 2 PUMP STA. & BUILDING - SECTIONS B & C	60	W-234	LINE 3 PLAN AND PROFILE STA. 154+00 TO 166+00
20	W-103	HONDO 2 PUMP STA. FIRE STORAGE TANK - DETAILS	61	W-235	LINE 3 PLAN AND PROFILE STA. 166+00 TO 178+00
21	W-104	HONDO 2 PUMP STA. FIRE STORAGE TANK - PLAN	62	W-236	LINE 3 PLAN AND PROFILE STA. 178+00 TO 190+00
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			82	E-501	HONDO 2 TANK POWER AND INSTRUMENTATION DETAILS
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CERTIFICATION:

I, STEVEN K. MORROW, REGISTERED PROFESSIONAL ENGINEER NO. 13679 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.



STEVEN K. MORROW

NO. 13679



SANTA FE COUNTY PUBLIC WORKS

424 NM SR 599  
SANTA FE, NEW MEXICO 87504  
TELEPHONE NO.: 505-992-3010

SANTA FE COUNTY APPROVALS

SFC Fire Marshal *Jaime* Date: 3/18/2020  
SFC PW Director *Ramona* Date: 03/18/20  
SFC Water Utilities Division Director *RJ* Date: 03/18/20

MOLZENCORBIN

ENGINEERS | ARCHITECTS | PLANNERS

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

Molzen Corbin Project Number: SFC184-11

G-001

Sheet

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



**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.

**PNM NOTES**

SEE APPENDIX F FOR PNM EASEMENT ENCROACHEMNT AGREEMENT

1. ALL PERSONNEL AND EQUIPMENT MUST MAINTAIN FIFTEEN (15) FEET VERTICAL AND HORIZONTAL CLEARANCE FROM ALL WIRES AND STRUCTURES. IN ADDITION, ALL PERSONNEL AND EQUIPMENT MUST COMPLY WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) CLEARANCES FOR WORKING NEAR ENERGIZED LINES.
2. NO PERMANENT STRUCTURES OR LANDSCAPING AT MATURE GROWTH CAN BE MORE THAN FOURTEEN (14) FEET IN HEIGHT WITHIN THE EASEMENT.
3. FIRST PARTY WILL PROVIDE A COMPLETE SET OF DEVELOPMENT PLANS TO PNM FOR REVIEW AND APPROVAL. IF CHANGES ARE MADE AS A RESULT OF THE REVIEW PROCESS, A FINAL DEVELOPMENT PLAN WILL BE PROVIDED BY FIRST PARTY TO PNIW BEFORE FINAL APPROVAL IS GRANTED.
4. WHEN REQUIRED, FIRST PARTY SHALL INSTALL A PNM APPROVED BARRICADE FOR STRUCTURES AFFECTED AND INCUR ALL COSTS ASSOCIATED WITH THE BARRICADE INSTALLATION.
5. ONLY THE WATERLINE ENCROACHMENT SHOWN ON THE ATTACHED EXHIBITS "A" AND "B" HAS BEEN APPROVED TO BE WITHIN THE EASEMENT BY PNM, FIRST PARTY SHALL NOT MODIFY OR ADD TO SAID ENCROACHMENT UNLESS FIRST APPROVED BY PNM.
6. NO GRADING WITHIN 5 FEET OF PNIW POLE STRUCTURES.
7. NO FILL OVER 1 FOOT WITHIN THE PNM EASEMENT.
8. PNM SHALL HAVE 24/7 VEHICLE ACCESS TO FACILITIES,
9. NO STOCKPILING MATERIAL WITHIN THE RIGHT OF WAY.
10. PNM WOULD LIKE SHARED USE OF ANY ACCESS ROAD OR TRAIL CREATED FOR THIS PROJECT.
11. PNM WILL NEED TO SEE COPIES OF ALL LAND AGREEMENTS NEGOTIATED BY THE COUNTY WITH INDIVIDUAL PROPERTY OWNERS FOR USE OF A PORTION OF THE PNM EASEMENT FOR A WATERLINE.
12. ALL CONSTRUCTION AND MAINTENANCE WORK/EQUIPMENT WILL BE CONFINED TO THE 30-FOOT WATERFINE EASEMENT AS SHOWN ON "EXHIBIT B".

**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:  
 CANONCITO-ELDORADO WATERLINE

CONSTRUCTION NOTES AND  
 PUBLIC UTILITY CONTACT INFORMATION II

APPROVED BY: \_\_\_\_\_ REVIEWED BY: \_\_\_\_\_  
 DATE: FEBRUARY 2020  
 DRAWN BY: \_\_\_\_\_ SHEET : G-003



**DEMOLITION PLAN**  
SCALE: 1" = 10'-0"

**KEYED NOTES**

- 1 SAWCUT ASPHALT LIMITS
- 2 EXISTING ASPHALT TO BE REMOVED AND DISPOSED.
- 3 EXISTING DUMPSTER TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH PROPERTY OWNER.
- 4 DO NOT DISTURB EXISTING UTILITIES.
- 5 RELOCATE TRAILER CONTAINERS, CONTRACTOR TO COORDINATE WITH PROPERTY OWNER.
- 6 REMOVE MISCELLANEOUS MATERIALS
- 7 REMOVE AND DISPOSE EXISTING TREES INCLUDING ROOTBALL FULL DEPTH

**GENERAL SHEET NOTE**

1. CONTRACTOR SHALL RELOCATE EXISTING COMMUNICATIONS LINE AND UNDERGROUND ELECTRIC LINE AS NECESSARY TO CONSTRUCT IMPROVEMENTS

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SYMBOL	DATE:	BY:

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

PROJECT NAME:  
CANONCITO-ELDORADO WATERLINE

HONDO 2 PUMP STA.-DEMOLITION PLAN

APPROVED BY: \_\_\_\_\_ REVIEWED BY: S. MORROW  
DATE: FEBRUARY 2020 SHEET: \_\_\_\_\_  
DRAWN BY: MC C-101

**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.



**EXISTING REFUSE DUMPSTER**



**EXISTING CONTAINER**



**EXISTING CONTAINER**



**MISCELLANEOUS MATERIALS**



**GENERAL SHEET NOTE**

- CONTRACTOR SHALL RELOCATE EXISTING COMMUNICATIONS LINE AND UNDERGROUND ELECTRIC LINE AS NECESSARY TO CONSTRUCT IMPROVEMENTS

**MOLZENCORBIN**

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**KEYED NOTES**

- 6" BASECOURSE SEE DETAIL THIS SHEET
- 4" CONCRETE SIDEWALK SEE DETAIL THIS SHEET
- 7" REINFORCED CONCRETE SEE DETAIL SHEET THIS SHEET
- PUMP BUILDING SEE A-SERIES AND W-SERIES SHEETS FOR DETAILS AND DESIGN INFORMATION
- 40' DIA FIRE STORAGE TANK SEE W-SERIES SHEETS FOR DETAILS AND DESIGN INFORMATION
- 6' DIA. METER VAULT SEE W-SERIES SHEETS FOR DETAILS AND DESIGN INFORMATION
- ALTITUDE VALVE VAULT SEE W-SERIES SHEETS FOR DETAILS AND DESIGN INFORMATION
- CONCRETE FILLED BOLLARD SEE W-504 FOR DETAIL
- CONCRETE GENERATOR PAD SEE E-SERIES SHEETS FOR DETAILS AND DESIGN
- CONCRETE TRANSFORMER PAD SEE E-SERIES SHEETS FOR DETAILS AND DESIGN
- NEW HELIPAD (BY OTHERS NOT PART OF THIS PROJECT)
- OVERFLOW/DRAIN PAD SEE W-SERIES SHEETS FOR DETAILS AND DESIGN INFORMATION
- FIRE HYDRANT SEE W-SERIES SHEETS FOR DETAILS AND DESIGN INFORMATION
- RIP-RAP BLANKET SEE DETAIL SHEET C-103

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

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 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.

OLD LAS VEGAS HIGHWAY

**LEGEND**

---7145---	EX. INDEX CONTOUR
---7144---	EX. INTERMEDIATE CONTOUR
-7145-	INDEX CONTOUR
-7143-	INTERMEDIATE CONTOUR
---	PROPERTY LINE
---	SWALE FLOWLINE
---	TOP OF SLAB
---	FLOWLINE
---	TOP OF BERM
---	FINISH GRADE
---	FLOW ARROW
[Pattern]	REINFORCED CONCRETE SLAB
[Pattern]	CONCRETE SIDEWALK
[Pattern]	BASE COURSE



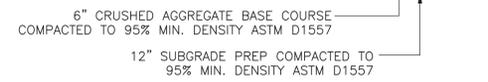
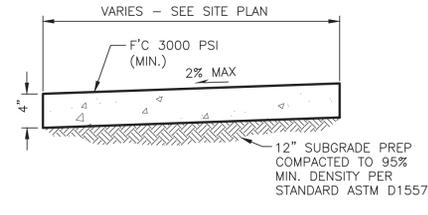
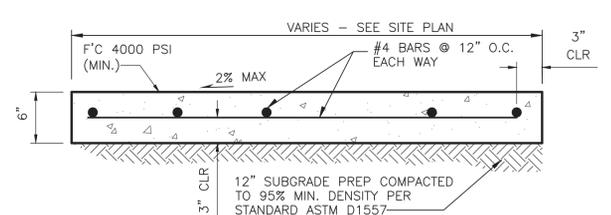
REVISION		
SYMBOL	DATE:	BY:

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

**PROJECT NAME:**  
 CANONCITO-ELDORADO WATERLINE

HONDO 2 PUMP STA. - SITE PLAN

APPROVED BY: \_\_\_\_\_ REVIEWED BY: S. MORROW  
 DATE: FEBRUARY 2020 SHEET: C-102  
 DRAWN BY: J. BEHREND



**GENERAL NOTES:**  
 1. INSTALL EXPANSION & CONTRACTION JOINTS IN SITE CONCRETE AS SPECIFIED.

**REINFORCED CONCRETE SLAB**  
 SCALE: N.T.S.

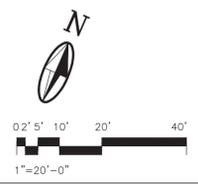
**GENERAL NOTES:**  
 1. INSTALL EXPANSION & CONTRACTION JOINTS IN SITE CONCRETE AS SPECIFIED.

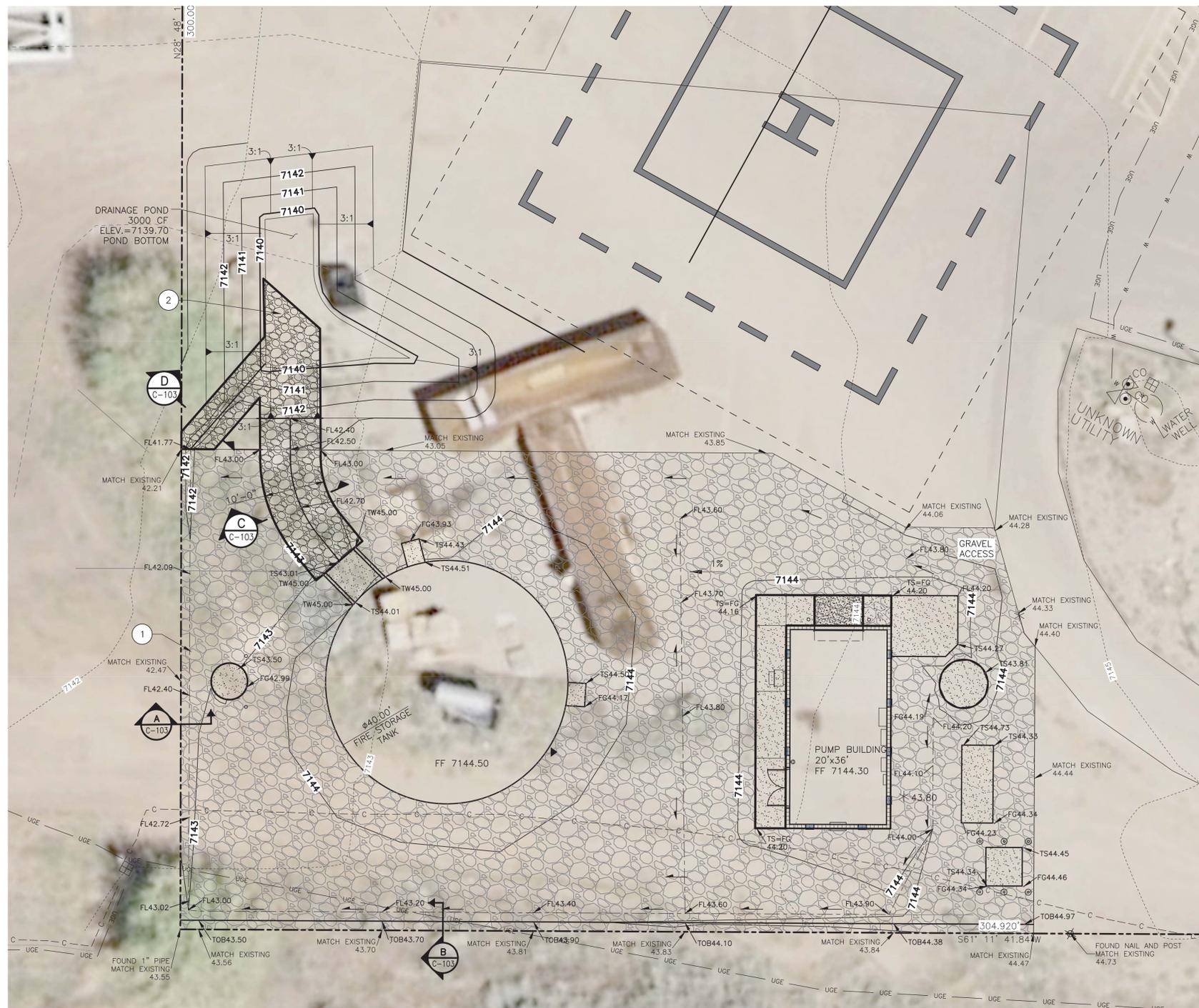
**CONCRETE SIDEWALK**  
 SCALE: N.T.S.

6" CRUSHED AGGREGATE BASE COURSE COMPACTED TO 95% MIN. DENSITY ASTM D1557

12" SUBGRADE PREP COMPACTED TO 95% MIN. DENSITY ASTM D1557

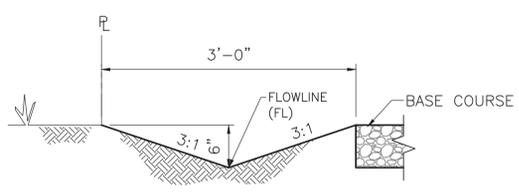
**AGGREGATE BASE COURSE**  
 SCALE: N.T.S.





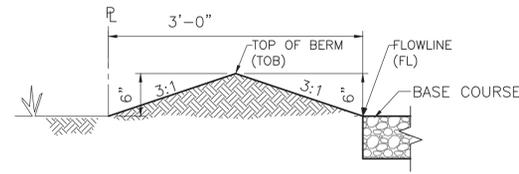
**GRADING AND DRAINAGE PLAN**

SCALE: 1" = 10'-0"



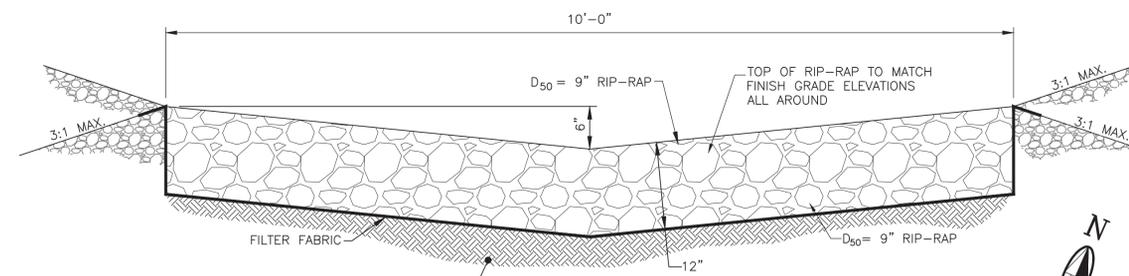
**SECTION - A  
DRAINAGE SWALE**

N.T.S.



**SECTION - B  
BERM AND DRAINAGE SWALE**

N.T.S.



**SECTION - C  
RIP-RAP SWALE DETAIL**

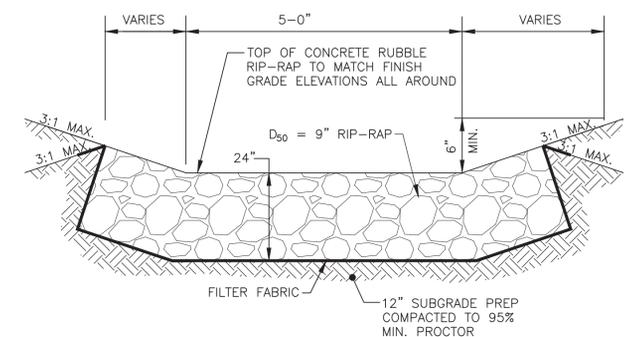
SCALE: N.T.S.

**GENERAL SHEET NOTE**

- CONTRACTOR SHALL RELOCATE EXISTING COMMUNICATIONS LINE AND UNDERGROUND ELECTRIC LINE AS NECESSARY TO CONSTRUCT IMPROVEMENTS

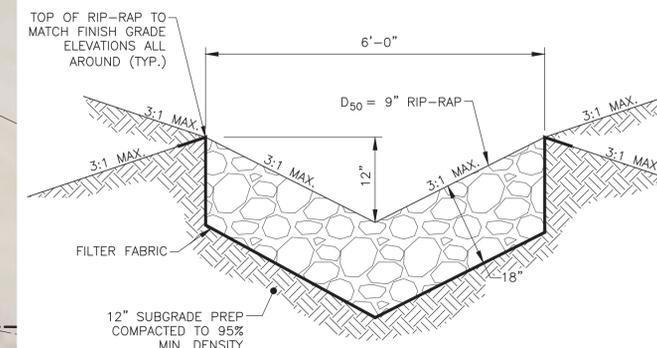
**LEGEND**

---7145---	EX. INDEX CONTOUR
---7144---	EX. INTERMEDIATE CONTOUR
-7145-	INDEX CONTOUR
-7143-	INTERMEDIATE CONTOUR
---	PROPERTY LINE
---	SWALE FLOWLINE
TS44.20	TOP OF SLAB
TC45.00	TOP OF CURB
FL43.60	FLOWLINE
TOB43.90	TOP OF BERM
FG	FINISH GRADE
→	FLOW ARROW
[Pattern]	REINFORCED CONCRETE SLAB
[Pattern]	CONCRETE SIDEWALK
[Pattern]	BASE COURSE



**RIP-RAP BLANKET DETAIL**

SCALE: N.T.S.



**SECTION - D  
RIP-RAP SWALE DETAIL**

SCALE: N.T.S.

**MOLZENCORBIN**

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

**KEYED NOTES**

- DRAINAGE SWALE SEE DETAIL THIS SHEET
- RIP-RAP BLANKET SEE DETAIL THIS SHEET



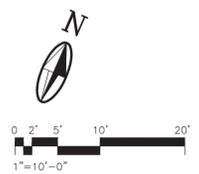
REVISION		
SYMBOL	DATE:	BY:

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

PROJECT NAME:  
CANONCITO-ELDORADO WATERLINE

HONDO 2 PUMP STA.- GRADING & DRAINAGE

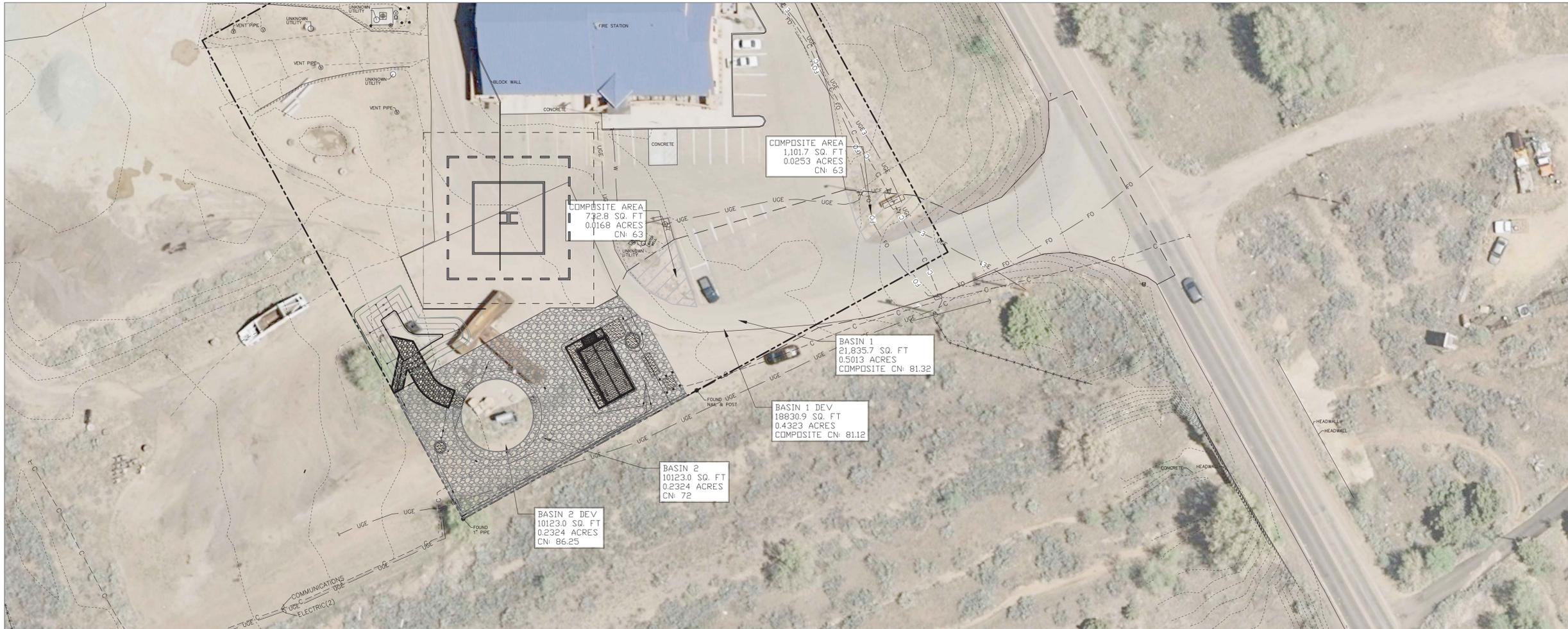
APPROVED BY: \_\_\_\_\_ REVIEWED BY: S. MORROW  
DATE: FEBRUARY 2020 SHEET: C-103  
DRAWN BY: MC



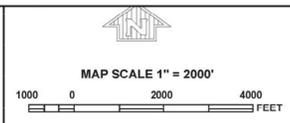
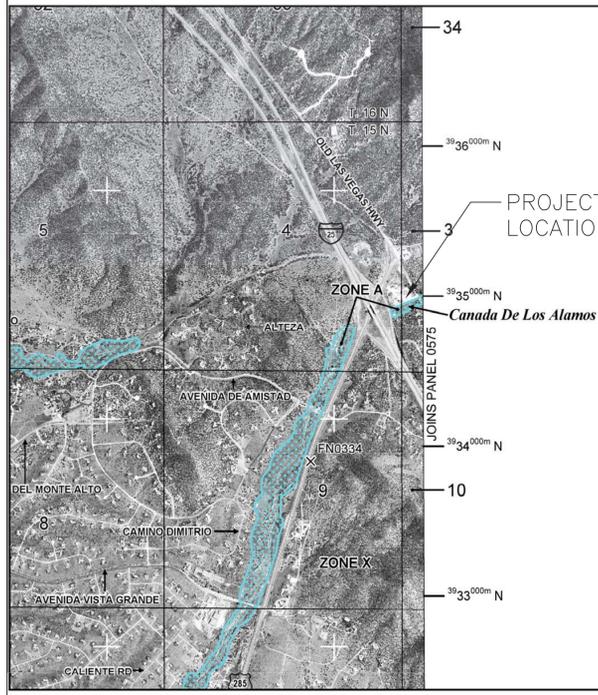
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SITE HYDROLOGY			
AREA	TOTAL AREA (SQ. FT.)	100YR,24HR Q(CFS)	100YR,24HR VOL(CU. FT.)
Proposed Site	10123	0.5	1002.0
Existing Site	10123	0.4	828.0
Req. Pond Volume for 3.47" Storm			174.0



**PANEL 0550E**  
**FIRM**  
**FLOOD INSURANCE RATE MAP**  
**SANTA FE COUNTY, NEW MEXICO**  
**AND INCORPORATED AREAS**  
**PANEL 550 OF 1100**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)  
 CONTAINS:  
 COMMUNITY NUMBER: 50088 PANEL: 0550 BUFFER: E  
 SANTA FE COUNTY (UNINCORPORATED AREAS)  
 Note to User: The Map Number shown below should be used when filing map orders. The Community Number shown above should be used on insurance applications for the subject community.  
**MAP NUMBER 35049C0550E**  
**MAP REVISED DECEMBER 4, 2012**  
 Federal Emergency Management Agency

**DRAINAGE REPORT**

**PROJECT DESCRIPTION & SITE LOCATION:**

THE SANTA FE COUNTY HONDO 2 PUMP STATION, PART OF THE CANONCITO-ELDORADO WATERLINE PROJECT, CONSISTS OF A PUMP STATION AND A WATER STORAGE TANK. THE SIZE OF THE PROJECT SITE IS APPROXIMATELY 0.2324 ACRES OR 10123 SQ. FT. THE SITE IS LOCATED ON THE SANTA FE COUNTY HONDO 2 FIRE STATION PROPERTY AT 645 OLD LAS VEGAS HIGHWAY IN SANTA FE, NM. THE OFFSITE WATERSHED BASIN THAT CONTRIBUTES WATER TO THIS SITE IS SMALL AT 0.5013 ACRES AND RUNS THROUGH THE SITE. THE SITE IS LOCATED ON SANTA FE COUNTY PROPERTY, AND IS BOUNDED ON THE NORTH, EAST, WEST, BY NMDOT PROPERTY, AND ON THE SOUTH BY THE SAN MARCOS ARROYO.

**CRITERIA:**

HYDROLOGIC CRITERIA FOR THIS DRAINAGE REPORT WERE DETERMINED USING THE NRCS TR-55 RUNOFF METHOD. THE OVERALL WATERSHED IS LESS THAN 40 ACRES, WHICH ALLOWS FOR THIS METHOD. HYDROLOGIC CALCULATIONS WERE BASED ON THE 100-YR, 24-HR STORM AND PRECIPITATION DATA COLLECTED FROM THE NOAA ATLAS SPECIFIC TO THE PROJECT LOCATION. SOIL INFORMATION FOR THE SITE WAS OBTAINED USING THE NRCS WEB SOIL SURVEY.

**EXISTING CONDITIONS:**

THE EXISTING PROJECT SITE IS CLASSIFIED AS DIRT ROAD IN AN SEMI URBAN AREA. THERE IS A DIRT ROAD THROUGH THE SITE. THE NATURAL GRADE OF THE SITE IS FAIRLY FLAT AND THE OFFSITE PARKING AREA NORTHEAST DRAINS THROUGH THE SITE. FROM THE NRCS WEB SOIL SURVEY THE SOIL IS A OHKHE SANDY LOAM WITH 1 TO 3 PERCENT SLOPES. THIS SOIL HAS A HYDROLOGIC RATING OF A, WHICH USES AN CURVE NUMBER OF 83 FOR GRAVEL PAVED AREAS WITH OPEN DITCHES, A CURVE NUMBER OF 72 FOR DIRT AREAS, AND A CURVE NUMBER OF 63 FOR NATURAL DESERT LANDSCAPING. MANNINGS EQUATION FOR SHEET FLOW AND SHALLOW CONCENTRATED FLOW WERE USED FOR ESTIMATING LAG TIME OF THE ON AND OFFSITE RUNOFF. THESE LAG TIMES WERE BELOW THE MINIMUM LAG TIME WHICH WAS USED AT 3.5 MIN, WHICH WAS LESS THAN THE FIVE MINUTES FOUND USING THE SEELEYE METHOD IN THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL STANDARDS. THIS INFORMATION WAS ENTERED INTO THE HEC-HMS HYDROLOGIC MODELING PROGRAM TO COMPUTE THE EXISTING RUNOFF CONDITIONS. THE SITE GENERATES APPROXIMATELY .04 CFS OF RUNOFF IN THE 100-YR, 24-HR STORM, WHILE THE OFFSITE AREA PRODUCES 1.0 CFS. IN TERMS OF VOLUME, THE TOTAL PREDEVELOPED SITE RUNOFF FROM THE SAME STORM EVENT IS 0.019 AC-FT.

**DEVELOPED CONDITIONS:**

ALL ADDITIONAL RUNOFF GENERATED BY THIS PROJECT IN THE 100-YR, 24-HR STORM WILL BE PONDED. THE NEW DEVELOPMENT WILL INCLUDE THE CONSTRUCTION OF A PUMP STATION, AND A WATER STORAGE TANK. IN ADDITION TO THE STRUCTURES, THE SITE WILL HAVE GRAVEL SURFACING. THE AREA IS MODERATELY DISTURBED DUE TO TRAFFIC FROM THE EXISTING DIRT ROAD AND FIRE STATION.

A POND WILL BE CONSTRUCTED TO RETAIN THE ADDITIONAL RUNOFF CAUSED BY THE CHANGE IN LAND TREATMENTS. APPROXIMATELY 0.2323 ACRES WILL CHANGE FROM DIRT LOT TO MORE IMPERVIOUS GRAVEL, ROOF AREA, OR TANK TOP AREA. THIS WILL GENERATE AN INCREASE IN RUNOFF FROM THE SITE AND THE POND WILL CAPTURE AND STORE IT ONSITE. A SWALE JUST INSIDE THE WEST PROPERTY LINE WILL INTERCEPT RUNOFF AND DIRECT IT TO THE POND.

THE NATURAL TOPOGRAPHY DRAINS THROUGH THE SITE. THE SITE WILL BE GRADED IN A MANNER THAT DIVERTS THE RUNOFF AWAY FROM THE PUMP STATION BUILDING. THE NEWLY CONSTRUCTED SITE WILL DRAIN ALL ITS RUNOFF TO THE POND. THE DEVELOPED SITE WILL GENERATE 0.5 CFS IN THE 100-YR, 24-HR STORM, MAKING THE PEAK ADDITIONAL RUNOFF GENERATED BY THIS PROJECT 0.1 CFS. IN TERMS OF VOLUME, THE DEVELOPED SITE WILL PRODUCE 0.023 AC-FT FOR THE 100-YR, 24-HR STORM, MAKING THE ADDITIONAL VOLUME PRODUCED BY THIS PROJECT 0.004 AC-FT OR 174 CU. FT.

REVISION		
SYMBOL	DATE:	BY:

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

**PROJECT NAME:**  
 CANONCITO-ELDORADO WATERLINE

HONDO 2 PUMP STA. - DRAINAGE SYNOPSIS

**APPROVED BY:** REVIEWED BY: S. MORROW  
 DATE: FEBRUARY 2020 SHEET: C-104  
 DRAWN BY: R. DURDEN

**GENERAL STRUCTURAL NOTES**

**1. CODES AND MANUALS**

International Building Code, 2015 Edition  
 ACI 318, current edition.  
 AISC manual of steel construction Current Edition  
 Steel Structural Members, Current Edition  
 ACI 530, Current Edition

**2. Design loads:**

- A. Vertical: Roof Live Load (Non Reducible) 20psf  
 Roof Live Load: 20psf  
 Roof Dead Load: 15psf (Excluding Hollow Core Slab Self Wt.)

B. Horizontal:

- (1) WIND - ASCE 7-10 Main Force Resisting system Envelope Procedure

V<sub>3</sub>Sec gust = 115mph  
 Iw = 1.15  
 Exposure = C  
 Mean Roof Height = 16'-0"  
 Roof Angle = 2.4°  
 qh = 24.4psf

- (2) SEISMIC (EQUIVALENT LATERAL FORCE PROCEDURE) V = Cs W

Site Class = D  
 Occupancy Category = III  
 Seismic Design Category = D  
 IE = 1.0  
 S<sub>DS</sub> = 0.448  
 S<sub>D1</sub> = 0.203  
 R = 5  
 Cs = 0.112

C. Soil:

- (1) Allowable Bearing Pressure (Per geotechnical report prepared by GEO-TEST, dated: 12/12/2019)

\*Allowable 1/3 stress increase for combined gravity & seismic/wind loading  
 qa = 2500psf for Tank  
 and qa = 2000psf for Building

**3. GENERAL**

- A. The contractor shall verify all dimensions in the field.  
 B. Shop drawings shall be furnished for review before any fabrication and erection is started. Poorly executed shop drawings shall be rejected and resubmitted.  
 C. The contractor shall be responsible for providing safe and adequate shoring for all parts of the Structure during construction.  
 D. All trades shall coordinate and verify all openings in floors, roof, walls, and beams with the general contractor.  
 E. The general contractor shall be responsible for foundations under mechanical equipment and shall coordinate size and location of foundations with mechanical contractor.

**4. MATERIALS**

A. Cast-in-place Concrete:

- (1) Hardrock Concrete (Unit Wt= 150 pcf)  
 a. f<sub>c</sub> = 4000 psi @ 28 days w/5% minimum air-entrainment- All cast-in-place site concrete and hollow core slabs

B. Reinforcing Steel:

- (1) All reinforcing steel shall conform to ASTM A615 Grade 60.  
 (2) Welded smooth wire fabric shall conform to ASTM A185 specification for welded wire fabric for concrete reinforcement.  
 (3) Reinforcing steel shall be fabricated and placed in accordance with the latest building Code requirements for reinforced concrete (ACI 318) and the latest standard manual (ACI 315)  
 (4) Bar supports and spacers for rebar shall be provided in accordance with ACI 315. Chairs with 22 GA. sand plates shall be provided for all reinforcing in slabs-on-grade.  
 (5) Where lapped splices in reinforcing occur, the minimum lap shall be made as follows unless noted otherwise:  
 a. Vertical reinforcing: 48 bar dia. or 24" minimum.  
 b. Horizontal reinforcing: 48 bar dia. or 24" minimum.  
 c. Horizontal corner bars: 48 bar dia. or 24" minimum.  
 (6) Concrete cover for reinforcing shall be as follows:  
 a. Footings: 3" from bottom and 2" from sides.  
 b. Stem walls: 2" from sides and 2" from top and bottom.  
 c. Slabs-on-ground: centered in slab.  
 (7) The contractor shall be responsible to see that all rebar is properly aligned and tied in place before placing concrete. All column, wall dowels and vertical steel shall be accurately located and secured in place so that it remain in position during the concrete placing operation. Any rebar found to be improperly installed shall be removed and replaced at no additional cost to the owner.  
 (8) All horizontal reinforcing in footings, walls and beams shall be continuous around corners or have corner bars of the same size and spacing as the horizontal bars and lap a minimum of 30 bar diameters or 24" minimum.  
 (9) Form ties shall be either of the threaded or snap off type so that no metal will be Left within 1" of the surface of the wall. Following removal of form ties, recesses are to be carefully filled and pointed with mortar.

**5. SITE GRADING AND EARTHWORK:**

- A. Inspection: The Engineer of Record shall have an inspector present who will inspect the placement of any engineered fill. The contractor shall notify the Engineer at least two (2) working days in advance of any field operation requiring engineered fill.  
 B. Foundation preparation:  
 Building and tank areas shall be completely stripped of vegetation, pavements, walls, and soft or muddy areas.  
 (1) After the building and tank sites has been rough graded the existing soils shall be overexcavated to provide a minimum of three feet of structural fill below footings and slab. See Geotech Report for requirements. Prior to fill placement and after overexcavation exposed soils shall be scarified to a depth of eight inches and brought optimum moisture content or above. The exposed soils shall then be compacted to a minimum of 95% of maximum dry density as determined by ASTM D-1557 prior to placing of any new compacted fill used to achieve desired final pad elevations. Below the slab the existing soil shall be scarified to a depth of eight inches  
 (2) All scarification specified herein shall extend a distance of at least one foot beyond all footing edges.  
 (3) Soil utilized for filling shall consist of approved on-site or imported soil. All structural fill and back fill shall be non-expansive and have a plasticity index of not greater than 15 when tested in accordance with ASTM D-4318. Gradation of structural fill material, as determined in accordance with ASTM D-422, should be as follows:

SIEVE SIZE SQUARE OPENINGS	PERCENT PASSING BY DRY WEIGHT
3 Inch	100
No. 4	60 - 100
No. 200	15 - 45

- (4) Any imported soils shall be approved by the Engineer for both expansive and strength qualities prior to importation to the project site. Final acceptance of any imported soil will be based on observation of the soil actually delivered to the site.  
 (5) All fill shall be compacted to at least 95 percent of maximum dry density.  
 (6) The maximum dry density of all soils shall be determined in accordance with ASTM Test method D-1557  
 (7) All fill shall be placed with a moisture content of near optimum (±2%).

C. Site drainage:

Positive surface drainage away from both existing structures and new foundation excavations shall be provided during construction. A minimum of four percent gradient within the first ten feet away from structures in areas not protected by sidewalks and pavement shall be maintained

Special Inspections /Quality Assurance Requirements	
Item	Special Inspection Requirement
<b>1. Concrete Construction</b>	
a. Inspection of reinforcing steel and placement	Periodic Inspection per ACI 318: Sections 3.5 and 7.1-7.7 & IBC Section 1913.4
b. Inspection of bolts installed in concrete	Continuous Inspection per ACI 318: Sections 8.1.3 and 21.2.8 & IBC 1911.5, 1917.1
c. Inspection of anchors installed in hardened concrete	Periodic Inspection per ACI 318: Sections 3.8.6, 8.1.3 and 21.2.8 & IBC Section 1917.1
d. Verify use of required mix design	Periodic Inspection per ACI 318: Chapter 4 and Sections 5.2-5.4 & IBC Section 1904.2.2, 1913.2, 1913.3
e. Fabricate specimens for strength tests, perform slump, and air content tests, and determine the temperature of the concrete	Continuous Inspection (during fresh concrete delivery) per ASTM C172, C31 and ACI 318: Sections 5.6 and 5.8 & IBC Section 1913.10
f. Inspection of Concrete and Shotcrete placement for proper application techniques.	Continuous Inspection per ACI 318 Section 5.9 & 5.10 & IBC Section 1913.6, 1913.7, 1913.8
g. Inspection for maintenance of specified curing temperature and techniques	Periodic Inspection per ACI 318: Sections 5.11-5.13 & IBC Section 1913.9
<b>2. Soils</b>	
a. Verify materials below shallow foundations are adequate to achieve the design bearing capacity	Periodic Inspection
b. Verify excavations are extended to proper depth and have reached proper material	Periodic Inspection
c. Perform classification and testing of compacted fill materials	Periodic Inspection
d. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of compacted fill	Continuous Inspection
e. Verify that site has been prepared properly prior to compacted fill placement	Periodic Inspection
3. Masonry Construction	Special Inspection for the masonry elements of the Facility shall be in accordance with Level 1 requirements of the IBC 2015 and as shown below:
a. Proportions of site prepared mortar, and Construction of mortar joints. Locations of Reinforcing Connectors and anchorages	Periodic Inspection required as defined in ACI 530.1/ASCE 6/TMS 602 Article 2.6A and Article 3.3B
b. Size and Location of Structural elements	Periodic Inspection required as defined in ACI 530.1/ASCE 6/TMS 602 Article 3.3G
c. Type, size, and location of anchors including details of masonry anchorage to other structural members	Periodic Inspection required as defined in ACI 530/ASCE 5/TMS 402 Sections 1.2.2(e), 2.1.4, and 3.1.6
d. Specified size, grade, and type of reinforcement	Periodic Inspection required as defined in ACI 530/ASCE 5/TMS 402 Sections 1.13 and ACI 530.1/ASCE 6/TMS 6 or Article 2.4 & 3.4
e. Protection of masonry during cold or hot weather	Periodic Inspection required as defined in ACI 530.1/ASCE 6/TMS 602 Article 1.8C and 1.8D and IBC 2015 Section2104.3 and 2104.4
f. Prior to grout placement verify that grout space is clean, placement of reinforcement and anchorage is accurate, and mortar joints are correct.	Periodic Inspection required as defined in ACI 530.1/ASCE 6/TMS 602 Article 3.2D, 3.4, and 3.3B and IBC 2015 Section 1.13
g. Grout Placement, grout specimens, mortar specimens, and prisms	Continuous Inspection required to ensure compliance with ACI 530.1/ASCE 6/ TMS 602 Article 3.5, and 1.4, and IBC 2015 Section 2105.2.2 and 2105.3

**MOLZENCORBIN**

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 505 242 0673 fax  
 MolzenCorbin.com

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 THIS CONTRACT ALLOWS THE OWNER TO MAKE  
 PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
 OF AN UNDISPUTED REQUEST FOR PAYMENT*

*RICARDO S. PFEIFFER  
 REGISTERED PROFESSIONAL ENGINEER  
 NEW MEXICO  
 11155  
 2/10/20*

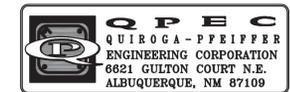
REVISION		
SYMBOL	DATE:	BY:

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

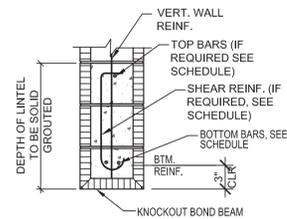
PROJECT NAME:  
 CANONCITO-ELDORADO WATERLINE

HONDO 2 BUILDING & TANK  
 GENERAL STRUCTURAL NOTES

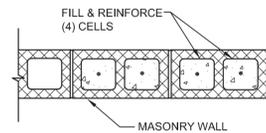
APPROVED BY: REVIEWED BY:  
 DATE: JANUARY 2020 SHEET :  
 DRAWN BY: RMR/TEP S-001



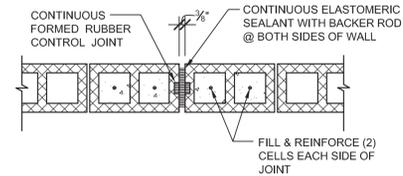
LINTEL SCHEDULE							NOTE: SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR OPENING SIZES AND BOTTOM OF LINTEL ELEVATIONS
LOCATION	DEPTH OF LINTEL	LINTEL BEARING LENGTH	LINTEL WIDTH	BOTTOM BARS	TOP BARS	SHEAR STIRRUPS	COMMENTS
L1	16"	8"	8"	(1)#5	(1)#5	N/A	SEE FRAMING PLANS FOR LOCATION



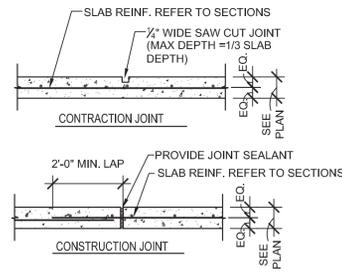
**MASONRY LINTEL DETAIL**  
SCALE: NTS



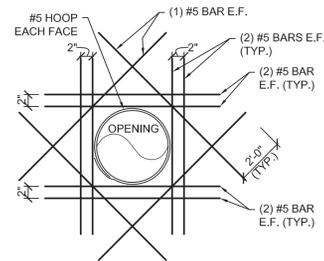
**MASONRY WALL DETAIL AT ENDS OF WALLS & AT OPENINGS**  
NOT TO SCALE



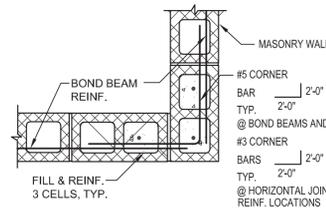
**MASONRY WALL CONTROL JOINT DETAIL**  
SCALE: NTS



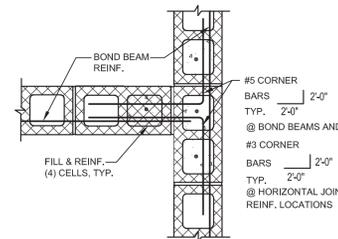
**CONCRETE SLAB JOINT DETAILS**  
SCALE: NTS



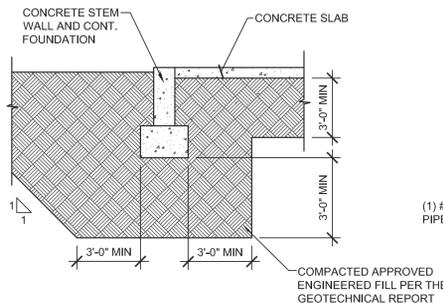
**ADDITIONAL REBAR @ CONCRETE WALL OPENINGS**  
SCALE: NTS



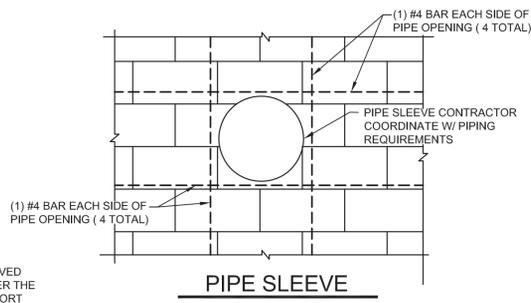
**MASONRY WALL DETAIL AT CORNERS**  
SCALE: NTS



**MASONRY WALL DETAIL AT INTERSECTIONS**  
NOT TO SCALE



**OVER-EXCAVATION DETAIL**  
SCALE: NTS



**DETAIL @ CMU**  
SCALE: NTS

**MOLZENCORBIN**

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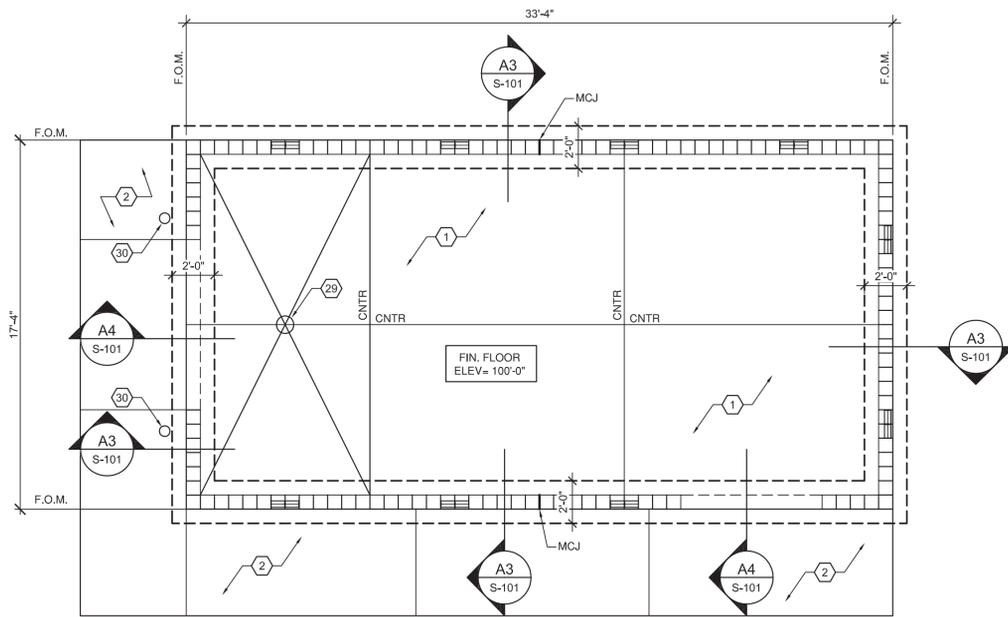
REVISION		
SYMBOL	DATE:	BY:

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UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:  
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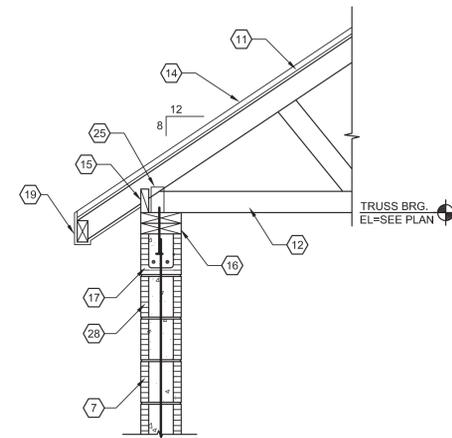
HONDO 2 BUILDING & TANK  
TYPICAL STRUCTURAL SECTIONS & DETAILS  
APPROVED BY: REVIEWED BY:  
DATE: JANUARY 2020 SHEET: S-002  
DRAWN BY: RMR/TEP





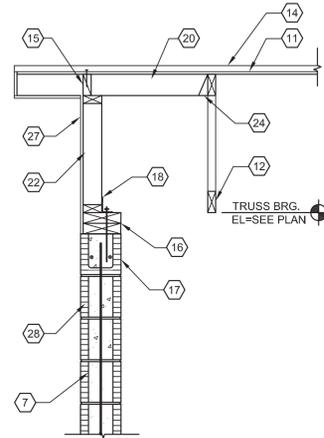
**FOUNDATION PLAN**

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



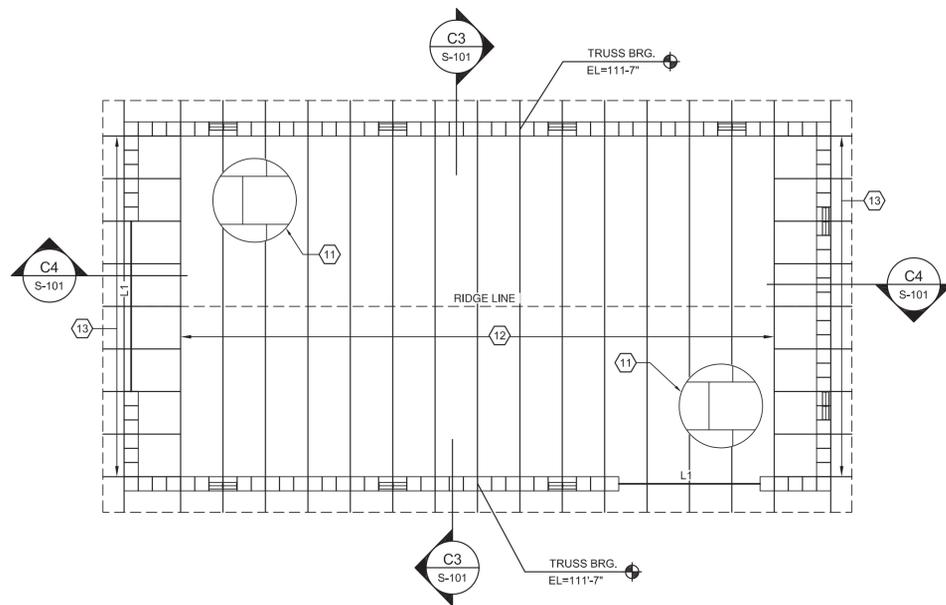
**C3 SECTION**

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



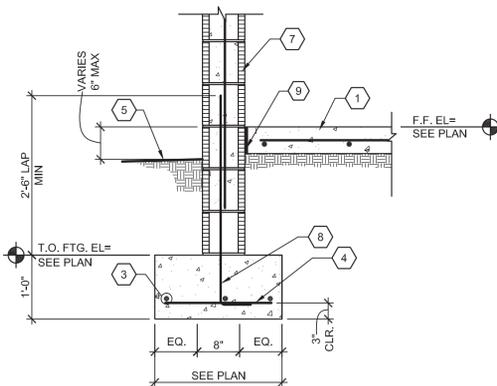
**C4 SECTION**

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



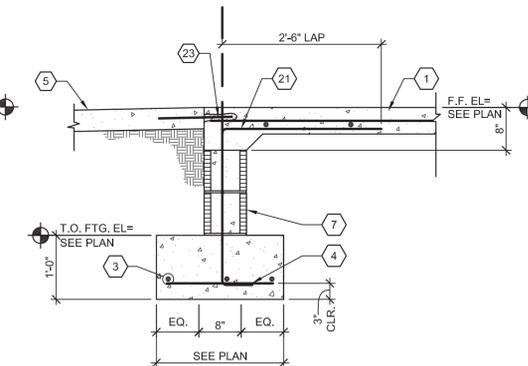
**ROOF FRAMING PLAN**

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



**A3 SECTION**

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



**A4 SECTION**

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

**GENERAL NOTES**

- SEE CIVIL PLAN FOR FINISHED FLOOR ELEV. = 100'-0"
- ALL DIMENSIONS ARE TO FACE OF CONCRETE OR FACE OF MASONRY UNLESS NOTED OTHERWISE.
- T.O.FTG. ELEV. = 98'-0" UNO
- PREMANUFACTURED WOOD TRUSSES DESIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO. THE TRUSSES SHALL HAVE A FLAT BOTTOM CHORD & DOUBLE PITCHED TOP CHORD. COORDINATE TRUSS CONFIGURATION WITH ARCHITECTURAL DRAWINGS. TRUSSES SHALL BE DESIGNED FOR 25psf DEAD LOAD ON THE TOP CHORD 10psf DEAD LOAD ON THE BOTTOM CHORD AND A 25psf LIVE/SNOW LOAD (NON REDUCIBLE) ON THE TOP CHORD.
- TRUSS BLOCKING SHALL BE PROVIDED BETWEEN ALL TRUSSES AT THEIR BEARING LOCATIONS AND ANY OTHER LOCATIONS DESIGNATED BY TRUSS MANUFACTURER.

**KEYED NOTES**

- 6" CONCRETE SLAB ON GROUND W/ #3 BARS @ 12" O.C. TYP.
- EXTERIOR SIDEWALK, SEE ARCHITECTURAL DRAWINGS
- #4 BARS AT 12" O.C. CONTINUOUS
- #4 @ 12" O.C.
- EXTERIOR SLAB OR FINISHED GRADE
- OPTIONAL CONSTRUCTION JOINT
- MASONRY WALL SEE LEGEND THIS SHEET
- REINFORCING DOWEL CENTERED IN WALL TO MATCH VERTICAL WALL REINFORCING SIZE AND SPACING. SEE LEGEND ON PLAN FOR REQUIREMENTS
- 1/2" EXPANSION JOINT MATERIAL
- NOT USED
- 5/8" OSB OR PLYWOOD W/8d NAILS @ 6" O.C. @ PANEL EDGES AND 12" O.C. @ INTERMEDIATE SUPPORTS. PROVIDE PLYWOOD SHEATHING CLIPS @ UNBLOCKED EDGES
- PRE-ENGINEERED WOOD TRUSSES @ 24" O.C. WITH DOUBLE PITCHED TOP CHORD @ SLOPE INDICATED ON ARCHITECTURAL DRAWINGS. SEE GENERAL NOTES THIS SHEET FOR ADDITIONAL REQUIREMENTS.
- 2x6 HEM-FIR #2 OR BETTER OUTRIGGERS @ 2'-0" O.C.
- ROOFING, SEE ARCHITECTURAL
- 2x TRUSS BLOCKING
- PROVIDE DOUBLE 2x8 HEM FIR #2 TOP PLATE CONTINUOUS W/ 1/2" DIA. x 6" A.B. @ 4'-0" O.C. AND WITHIN 1'-0" OF WALL ENDS
- KNOCKOUT BOND BEAM W/(2)#4 GRADE 60 BARS CONTINUOUS
- PROVIDE SIMPSON A35 FRAMING CLIPS @ 2'-0" O.C.
- 2x CONTINUOUS FACIA FRAMING, SEE ARCHITECTURAL
- 2x6 HEM FIR No.2 OUTRIGGERS @ 2'-0" O.C.
- REINFORCING DOWEL CENTERED IN WALL TO MATCH VERTICAL WALL REINFORCING SIZE AND SPACING. SEE LEGEND ON PLAN FOR REQUIREMENTS. BEND DOWEL 90° INTO CENTER OF SLAB AND LAP 2'-6" WITH SLAB REINFORCING
- GABLE END TRUSS
- #4 REINFORCING DOWEL 1'-6" LONG @ 18" O.C. CENTERED IN SLAB DEPTH AND EMBEDDED 4" MIN. USING EPCON C6 ADHESIVE OR EQUAL
- PROVIDE SIMPSON LUS 26 HANGERS
- PROVIDE SIMPSON H4 HURRICANE STRAPS @ EACH TRUSS
- 2x6 HEM FIR No.2 FRAMING @ 16" O.C.
- SHEATHING, SEE ARCHITECTURAL
- CUT BLOCK AS REQUIRED BELOW BOND BEAM
- FLOOR DRAIN, SEE MECHANICAL DRAWINGS
- PIPE BOLLARD, SEE ARCHITECTURAL DRAWINGS

**LEGEND**

- 8" MASONRY WALL WITH #5 VERTICAL REINFORCING BARS @ 24" O.C. CENTERED AND K.O.B.B. W/ (2) #4 CONTINUOUS @ 32" O.C. HORIZONTAL AND AT JOIST BRG & TOP OF WALL. SOLID GROUT ALL REINFORCED CELLS AND ALL CELLS BELOW GRADE
- F.O.M. FACE OF MASONRY
- CNTR CONTRACTION JOINTS SEE SHEET S-002
- MCJ MASONRY CONTROL JOINT SEE DETAIL ON SHEET S-002
- L# MASONRY LINTEL, SEE SCHEDULE ON SHEET S-001 FOR REQUIREMENTS

**MOLZENCORBIN**

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 Albuquerque, New Mexico 87106  
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*RICHARD S. PFEIFFER  
 NEW MEXICO  
 1165  
 2/10/20*

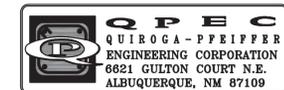
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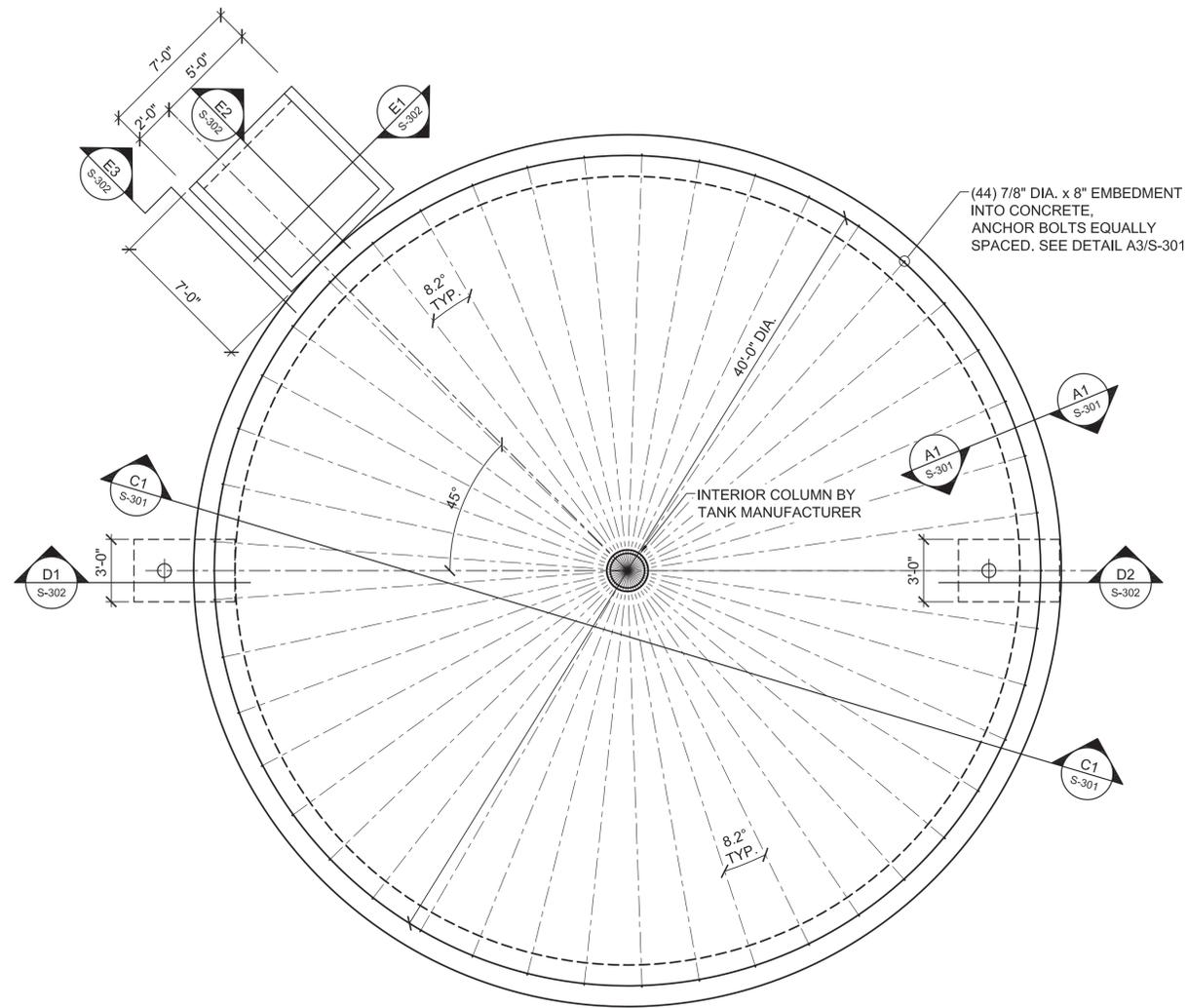
**SANTA FE COUNTY**  
 UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:  
**CANONCITO-ELDORADO WATERLINE**

HONDO 2 PUMP & BUILDING -  
 PLANS / SECTIONS & DETAILS

APPROVED BY: \_\_\_\_\_ REVIEWED BY: \_\_\_\_\_  
 DATE: JANUARY 2020 SHEET: S-101  
 DRAWN BY: RMR/TEP





**TANK FOUNDATION PLAN**

0 2' 4' 8'  
SCALE: 1/4"=1'



**GENERAL NOTES:**

- TANK CONFIGURATIONS:**  
 VOLUME = 157,400 GALLONS, TANK DIAMETER = 40'-0"  
 TANK SHELL HEIGHT = 20'-0"  
 WATER HEIGHT = 16'-9"
- DESIGN DATA:**  
 WIND VELOCITY = 120 mph  
 ROOF LIVE LOAD = 20 psf  
 SEISMIC DESIGN CATEGORY = C  
 SITE CLASS = D  
 OCCUPANCY CATEGORY = IV  
 $I_e = 1.5$

**FOUNDATION DESIGN CRITERIA:**

REINFORCED CONCRETE:  
 $f'_c = 3,000$  psi  
 $f_y = 60,000$  psi  
 UNIT WEIGHT = 150 pcf  
 HORIZONTAL EARTH PRESSURE: 62.5pcf (ACTIVE, AT REST)  
 ALLOWABLE SOIL BEARING PRESSURE: 2500psf  
 SOIL UNIT WEIGHT = 125pcf

**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:  
 CANONCITO-ELDORADO WATERLINE

HONDO 2 FIRE STORAGE TANK  
 FOUNDATION PLAN

APPROVED BY: \_\_\_\_\_ REVIEWED BY: \_\_\_\_\_  
 DATE: JANUARY 2020  
 DRAWN BY: RMR

SHEET:  
 S-102

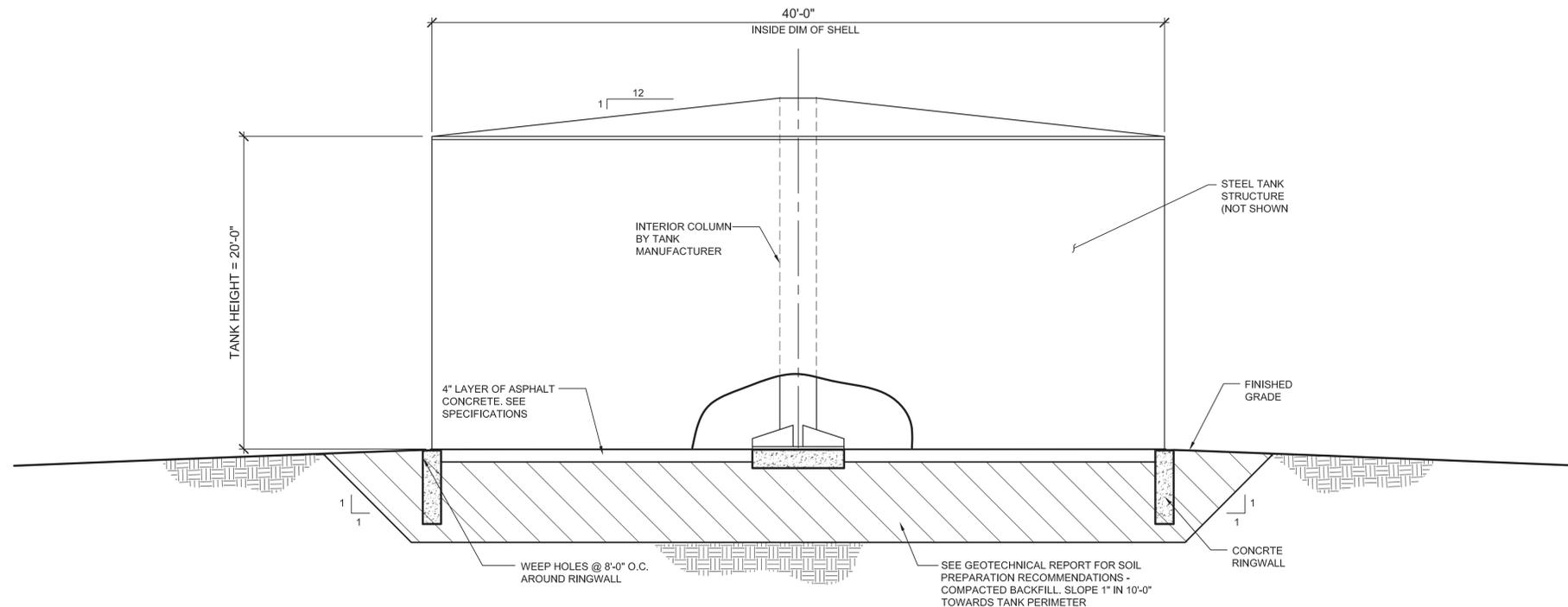
0 2' 4' 8'  
SCALE: 1/4"=1'



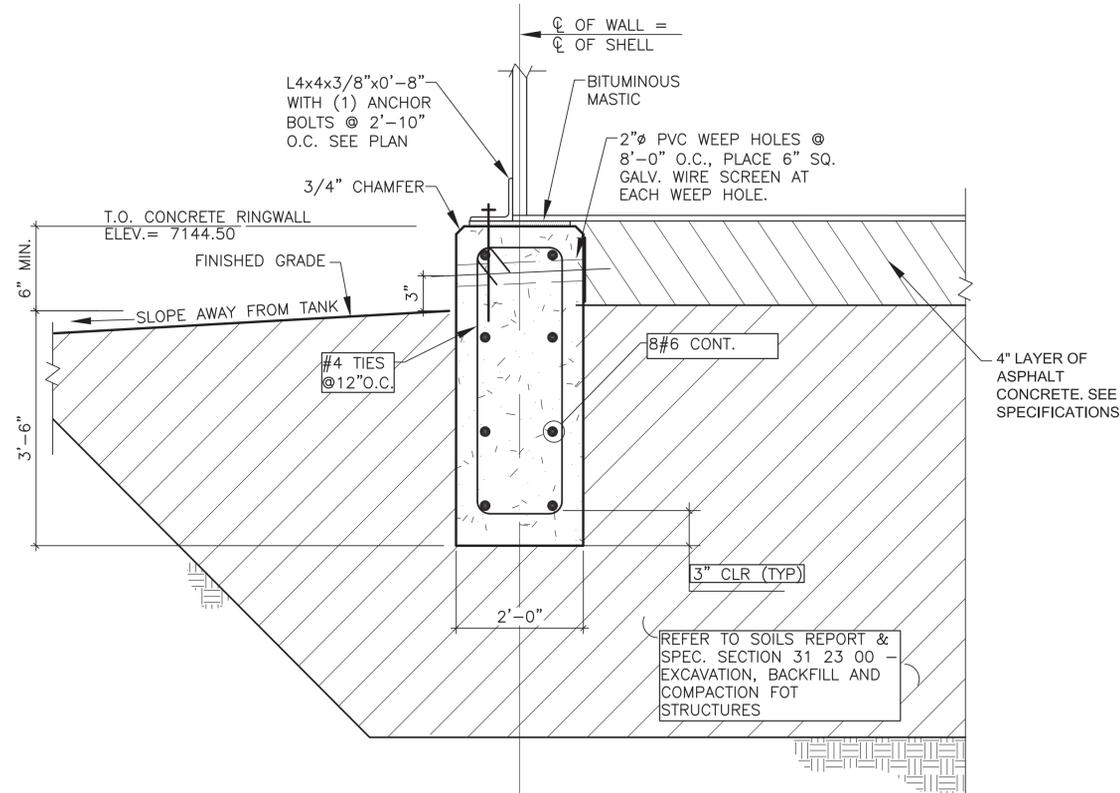
**MOLZENCORBIN**

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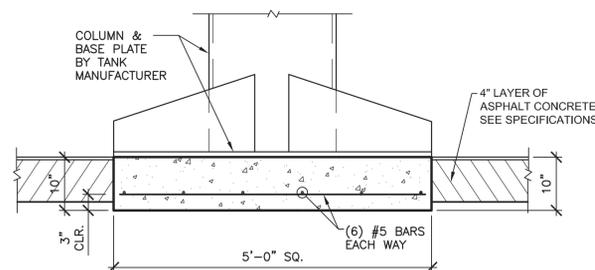
*NOTICE OF EXTENDED PAYMENT PROVISION:  
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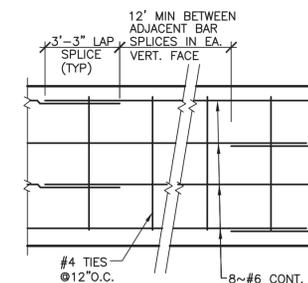
**C1 SECTION AT TANK CENTER**  
 SCALE: NTS



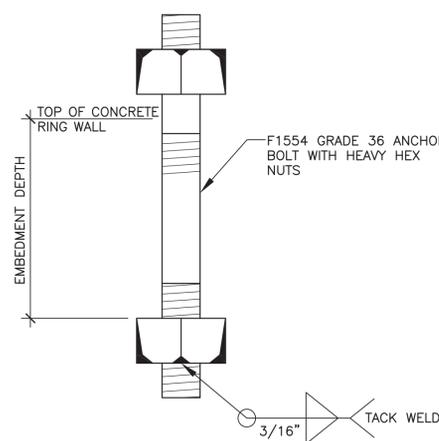
**A1 SECTION - TYPICAL RINGWALL SECTION**  
 SCALE: NTS



**B3 INTERIOR COLUMN DETAIL**  
 SCALE: NTS



**B4 TYPICAL BAR SPLICING**  
 SCALE: NTS



**A3 ANCHOR BOLT DETAIL**  
 SCALE: NTS

RICARDO S. PFEIFFER  
 REGISTERED PROFESSIONAL ENGINEER  
 NEW MEXICO  
 1165  
 2/10/20

REVISION		
SYMBOL	DATE:	BY:

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

PROJECT NAME:  
 CANONCITO-ELDORADO WATERLINE

HONDO 2 FIRE STORAGE TANK  
 SECTIONS & DETAILS

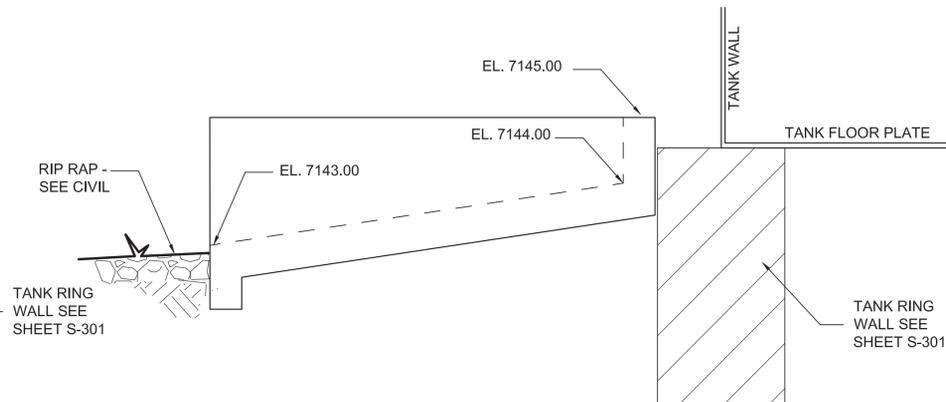
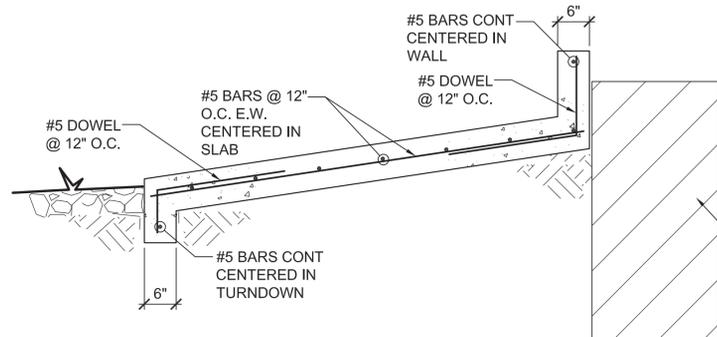
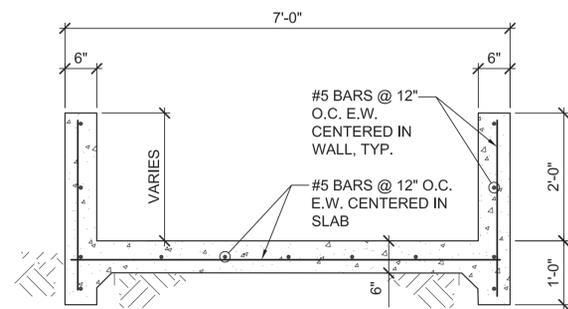
APPROVED BY: \_\_\_\_\_ REVIEWED BY: \_\_\_\_\_  
 DATE: JANUARY 2020 DRAWN BY: RMR/TEP SHEET: S-301



**MOLZENCORBIN**

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 Albuquerque, New Mexico 87106  
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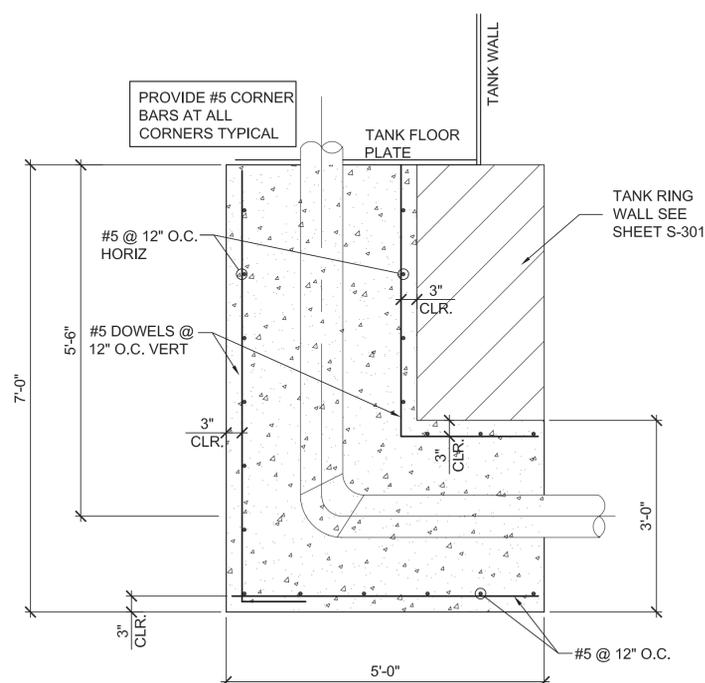
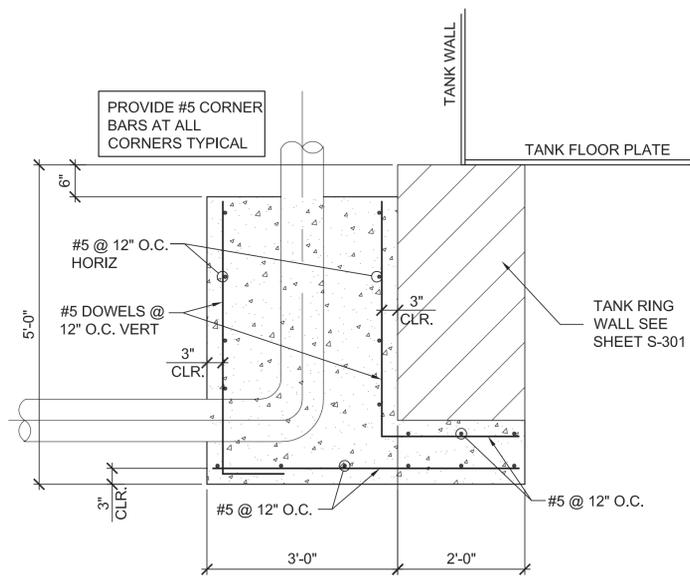
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**E1 CONCRETE OVERFLOW/DRAIN PAD**  
 SCALE: NTS

**E2 CONCRETE OVERFLOW/DRAIN PAD**  
 SCALE: NTS

**E3 CONCRETE OVERFLOW/DRAIN PAD**  
 SCALE: NTS



**D1 INLET PIPE & ANCHOR BLOCK**  
 SCALE: NTS

**D2 OUTLET PIPE & ANCHOR BLOCK**  
 SCALE: NTS

RECEIVED  
 RICHARD S. PFEEFER  
 NEW MEXICO  
 1165  
 2/10/20

REVISION		
SYMBOL	DATE	BY

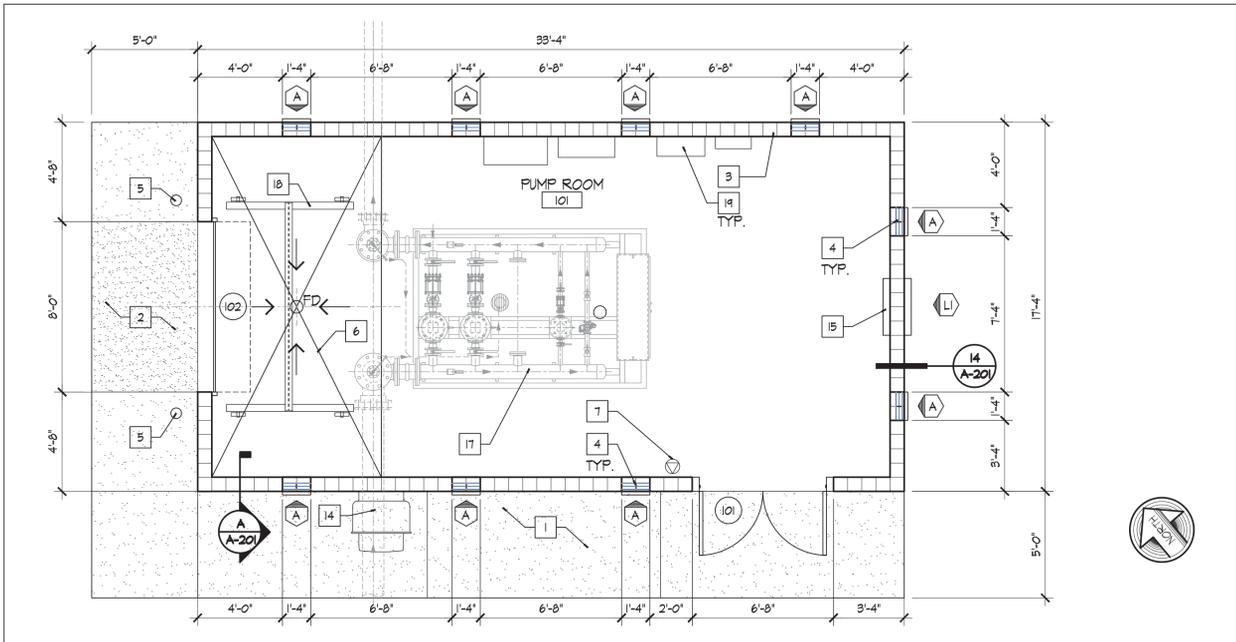
**SANTA FE COUNTY**  
 UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:  
 CANONCITO-ELDORADO WATERLINE

HONDO 2 FIRE STORAGE TANK  
 SECTIONS & DETAILS

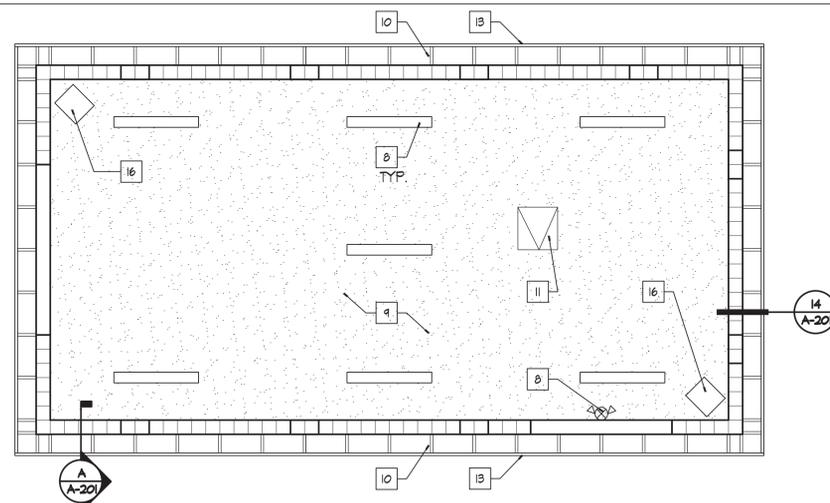
APPROVED BY: \_\_\_\_\_ REVIEWED BY: \_\_\_\_\_  
 DATE: JANUARY 2020 SHEET: S-302  
 DRAWN BY: RMR/TEP





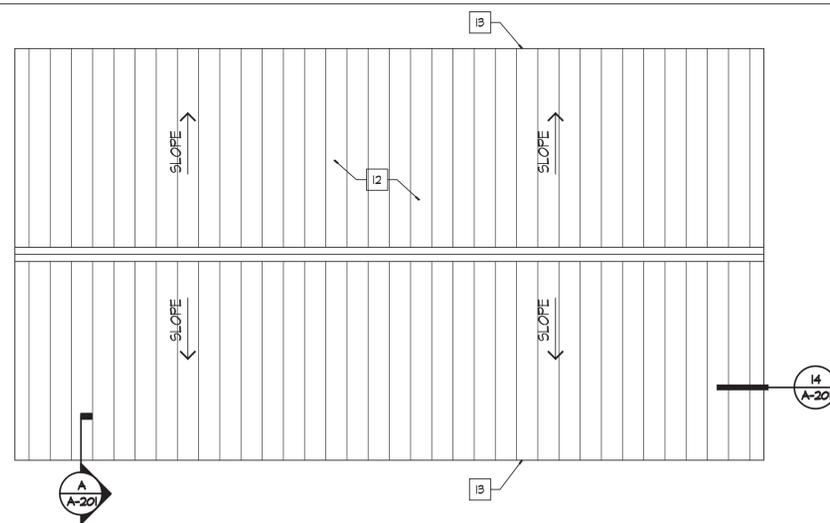
**FLOOR PLAN**

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



**REFLECTED CEILING PLAN**

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



**ROOF PLAN**

0 2' 4' 8' 1/4"=1'-0" 9

**GENERAL NOTES**

- A. WALL STRUCTURE SHALL BE OF CONCRETE MASONRY UNIT CONSTRUCTION AS DETAILED ON STRUCTURAL DRAWINGS
- B. SEE SHEET A-501 FOR DOOR, GLASS BLOCK PANELS AND LOUVER TYPES AND SCHEDULES
- C. TREATMENT PROCESS EQUIPMENT IS NOTED ON W-101
- D. CONCRETE SIDEWALKS AS DETAILED ON SHEET C-102

**KEYED NOTES**

- 1. CONCRETE SIDEWALK
- 2. 6" CONCRETE DRIVEPAD
- 3. CONCRETE MASONRY UNIT WALL WITH FOAM INSULATION IN UNGROUTED CELLS
- 4. SOLID GLASS BLOCK PANEL, TYP
- 5. 6" DIA. CONCRETE FILLED PIPE BOLLARDS, PAINT COLOR AS SELECTED BY A/E
- 6. SLOPE SLAB TO DRAIN
- 7. FIRE EXTINGUISHER
- 8. LIGHTING, REFER TO ELECTRICAL E-102
- 9. GYPSUM BOARD CEILING APPLIED DIRECTLY TO BOTTOM CORD OF WOOD TRUSS, WITH R30 BATT INSULATION AT BOTTOM OF ROOF DECK, FINISH AND PAINT AS SPECIFIED
- 10. EXPOSED TRUSS TAILS AND ROOF DECK, PAINT
- 11. 24" X 24 METAL ATTIC ACCESS PANEL, PAINT
- 12. METAL ROOF SYSTEM OVER WEATHER BARRIER OVER ROOF DECK
- 13. PRE-FINISHED METAL FASCIA
- 14. EXHAUST FAN, REFER TO M-101
- 15. MECHANICAL LOUVER -TYPE AND MOUNTING HEIGHT AS SCHEDULED ON M-101
- 16. UNIT HEATER, REFER TO M-101
- 17. WATER PROCESS EQUIPMENT, REFER TO W-101
- 18. GANTRY CRANE, REFER TO W-101
- 19. ELECTRICAL EQUIPMENT, COORDINATE MOUNTING LOCATIONS WITH GLASS BLOCK PANELS

**FINISH SCHEDULE**

- FLOOR: CONCRETE SLAB: SELF LEVELING EPOXY
- WALLS: CONCRETE MASONRY:  
EXTERIOR - CEMENTIOUS STUCCO  
INTERIOR - MASONRY PRIMER OR BLOCK FILLER, LATEX SEMI-GLOSS (2 COATS)
- GYPSUM CEILING: LATEX PRIMER, LATEX SEMI-GLOSS (2 COATS)
- HOLLOW METAL: METAL PRIMER, ACRYLIC SEMI-GLOSS (2 COATS)
- SOFFIT: PAINT EXPOSED WOOD STRUCTURES

**LEGEND**

- LIGHT FIXTURES SCHEDULED ON ELECTRICAL
- DOOR NUMBER, REFER TO SHEET A-501
- LOUVER, REFER TO SHEET A-501
- FIRE EXTINGUISHER

**BUILDING CRITERIA**

SANTA FE COUNTY LAMY BOOSTER PUMP STATION

DESIGNED TO MEET 2015 NMCBC/IBC, 2009 NMECC/IECC, 2015 NMPC/UPC, NMMC/UMC, AND 2017 NMEC/NEC	
TYPE	BUILDING USE: INDUSTRIAL LOW-HAZARD/EQUIPMENT ACCESS ONLY OCCUPANCY CLASSIFICATION: F-2 TYPE OF CONSTRUCTION: NON-COMBUSTIBLE IIB
BUILDING ATTRIBUTES TABLE 503	ALLOWABLE AREA PER FLOOR: 23,000 SF ALLOWABLE BUILDING HEIGHT: 55 FT FLOOR AREA: 578 SF BUILDING HEIGHT: 14' 0" STRUCTURAL CRITERIA: SEE STRUCTURAL DRAWINGS
EXTERIOR PROTECTION	FIRE SEPARATION DISTANCES: > 10 FT TO MIDPOINT BTWN NEAREST BUILDINGS FIRE RESISTANCE RATING FOR EXTERIOR WALLS: NOT REQUIRED BASED ON FIRE SEPARATION DISTANCE (PER TABLE 602) > OR = 10 FT
INTERIOR PROTECTION	PORTABLE FIRE EXTINGUISHERS PER IFC SECTION 906: REQUIRED: 2A UNITS EA 3000 SF FLOOR AREA PROVIDED: ONE 10LB 4A:80B:C AUTOMATIC FIRE SUPPRESSION FIRE DETECTION AND ALARM: NOT REQUIRED OR PROVIDED
DESIGN OCCUPANT LOAD MEANS OF EGRESS	OCCUPANCY TYPE: INDUSTRIAL AREAS GROSS FLOOR AREA: 767 SF OCCUPANT PER FLOOR AREA PER TABLE 1004.1.2: 1 PER 100 SF OCCUPANT LOAD: 8 MEANS OF EGRESS REQUIRED: 1 MEANS OF EGRESS PROVIDED: 1
PLUMBING FIXTURES TABLES 2902.1	PLUMBING FACILITIES CLASSIFICATION: INDUSTRIAL PLUMBING FIXTURES REQUIRED: NONE: THE BUILDING IS NOT HEATED OR COOLED FOR HUMAN OCCUPANCY
INSULATION VALUES MECCA	CLIMATE ZONE: 5B INSULATION VALUES: THE BUILDING IS NOT HEATED ABOVE 50 °F, OR COOLED FOR HUMAN OCCUPANCY AND IS NOT REQUIRED TO COMPLY WITH THE ENERGY CONSERVATION CODE ROOF: R30 BELOW DECK
ACCESSIBILITY	EQUIPMENT SPACES FREQUENTED BY PERSONNEL FOR MAINTENANCE AND REPAIR OF EQUIPMENT ARE EXEMPT FROM ACCESSIBILITY REQUIREMENTS

**MOLZENCORBIN**

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REVISION		
SYMBOL	DATE:	BY:

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

PROJECT NAME:  
CANONCITO-ELDORADO WATERLINE

HONDO 2 PUMP STA. -  
ARCHITECTURAL PLANS AND BUILDING CRITERIA

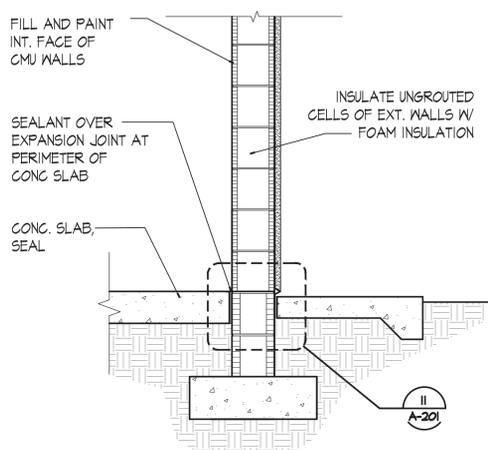
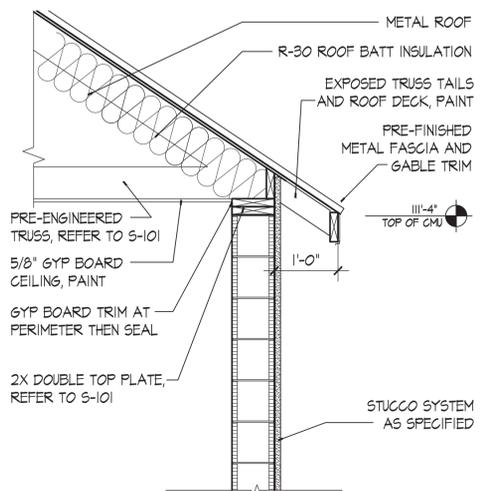
APPROVED BY: \_\_\_\_\_ REVIEWED BY: \_\_\_\_\_  
DATE: FEBRUARY 2020  
DRAWN BY: N.HERNANDEZ

SHEET :  
A-101

**MOLZENCORBIN**

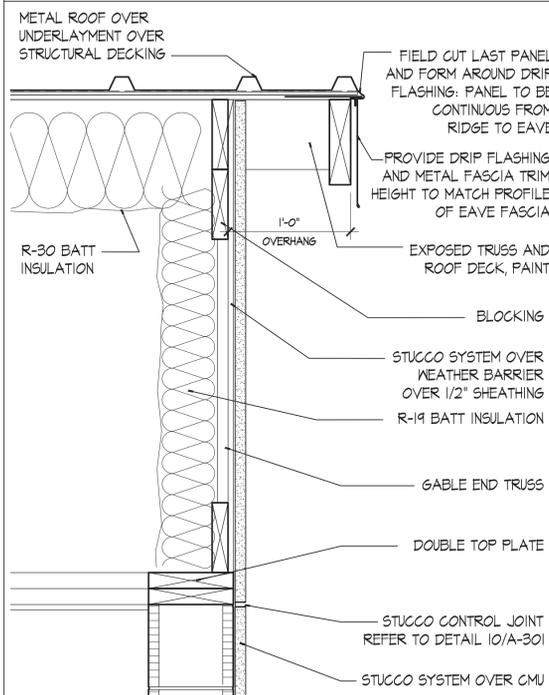
2701 Miles Road SE  
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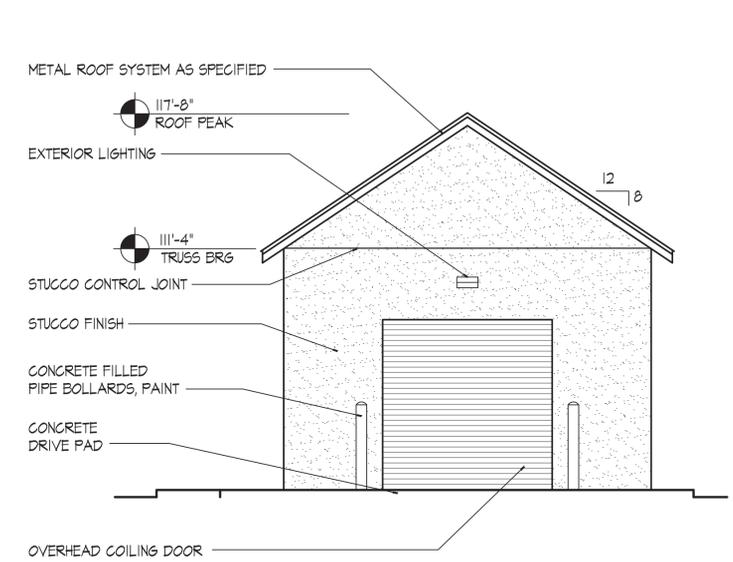
**WALL SECTION**

3/4"=1'-0" **A**



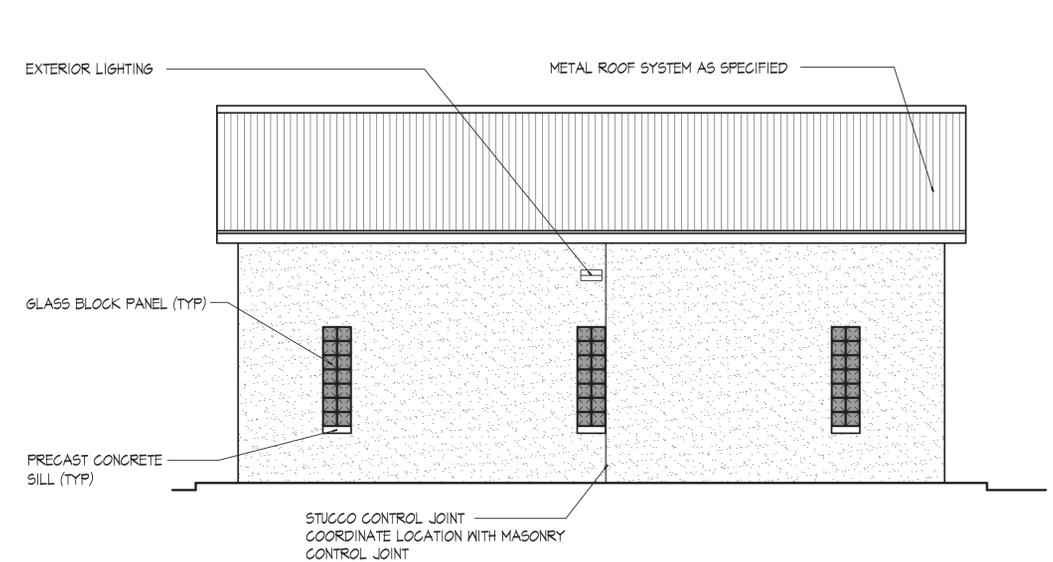
**GABLE END DETAIL**

1/2"=1'-0" **14**



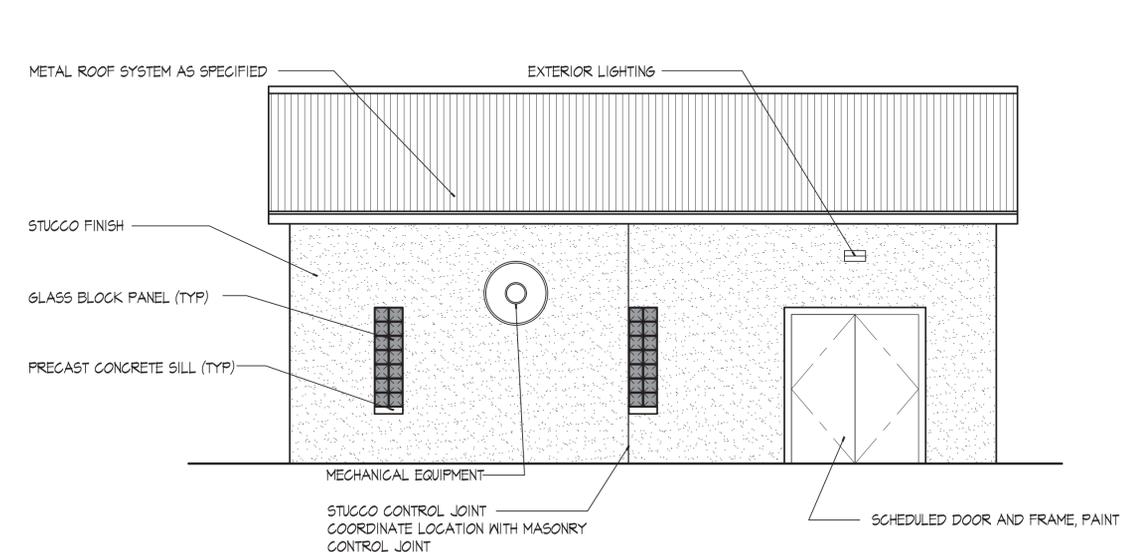
**WEST ELEVATION**

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



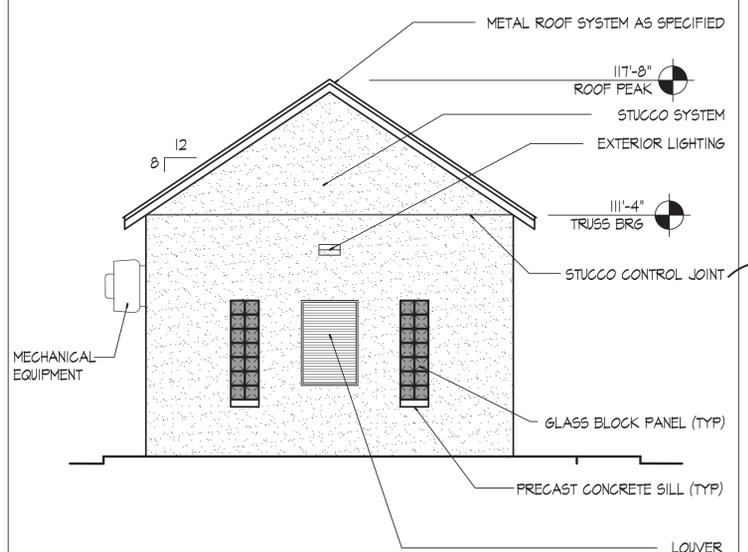
**NORTH ELEVATION**

0 2' 4' 8' 1/4"=1'-0" **1**



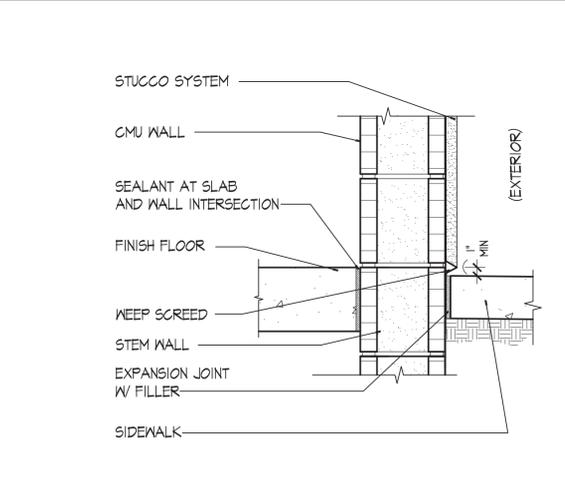
**SOUTH ELEVATION**

0 2' 4' 8' 1/4"=1'-0" **7**



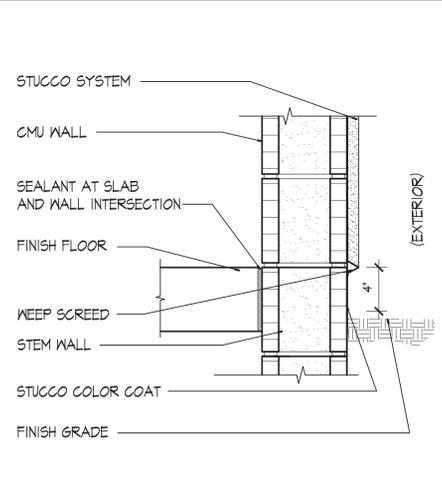
**EAST ELEVATION**

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



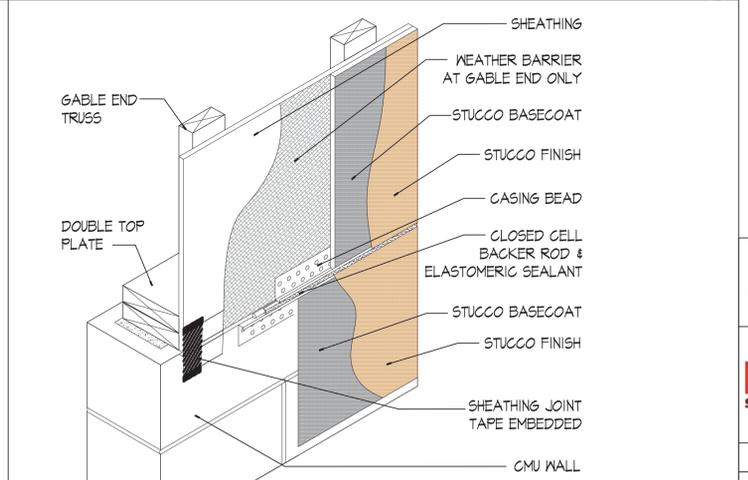
**STUCCO TERMINATION**

1/2"=1'-0" **11**



**STUCCO CONTROL JOINT**

1/2"=1'-0" **10**



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

PROJECT NAME:  
 CANONCITO-ELDORADO WATERLINE

HONDO 2 PUMP STA. -  
 ARCHITECTURAL ELEVATIONS AND DETAILS

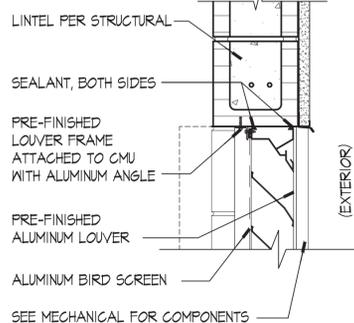
APPROVED BY: \_\_\_\_\_ REVIEWED BY: \_\_\_\_\_  
 DATE: FEBRUARY 2020  
 DRAWN BY: N.HERNANDEZ

SHEET :  
 A-201

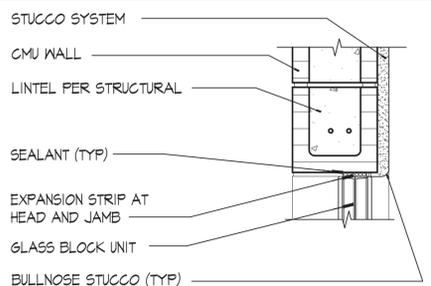
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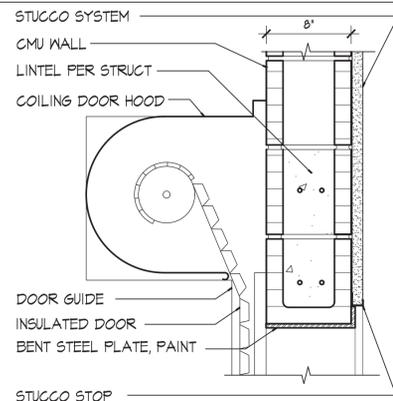
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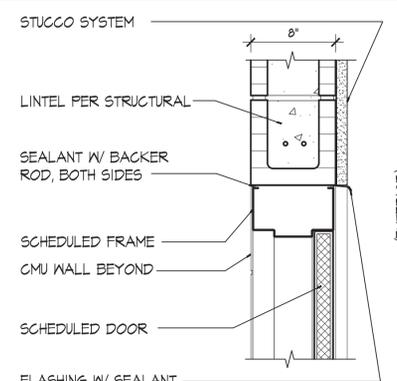
**LOUVER HEAD/JAMB** 1/2"=1'-0" **4**



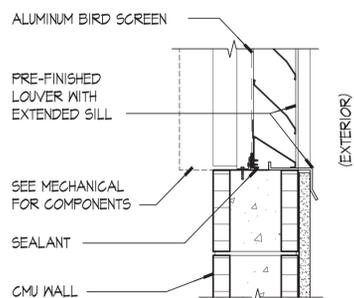
**HEAD** 1/2"=1'-0" **3**



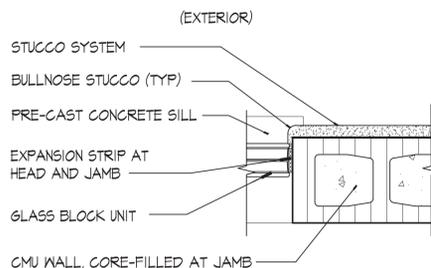
**OH DOOR HEAD** 1/2"=1'-0" **2**



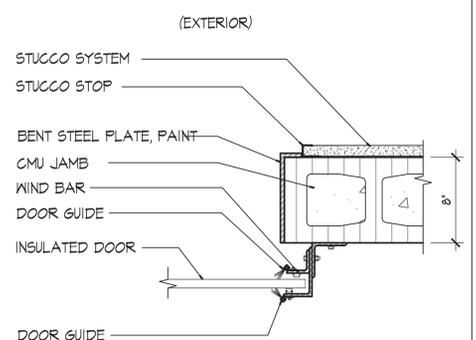
**HEAD** 1/2"=1'-0" **1**



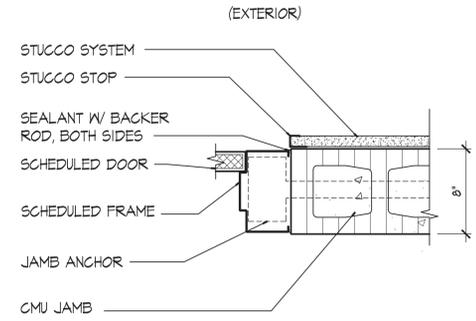
**LOUVER SILL** 1/2"=1'-0" **9**



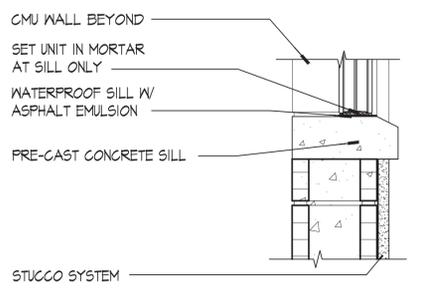
**JAMB** 1/2"=1'-0" **8**



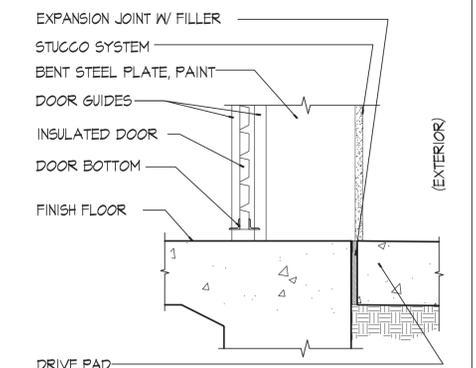
**OH HEAD JAMB** 1/2"=1'-0" **7**



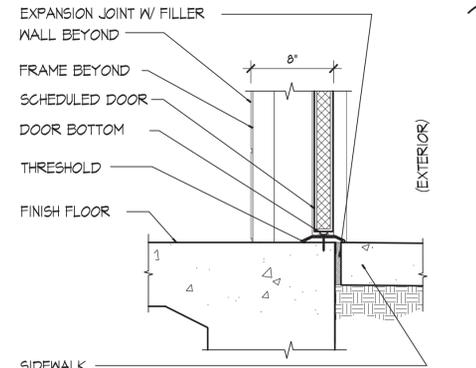
**JAMB** 1/2"=1'-0" **6**



**SILL** 1/2"=1'-0" **13**



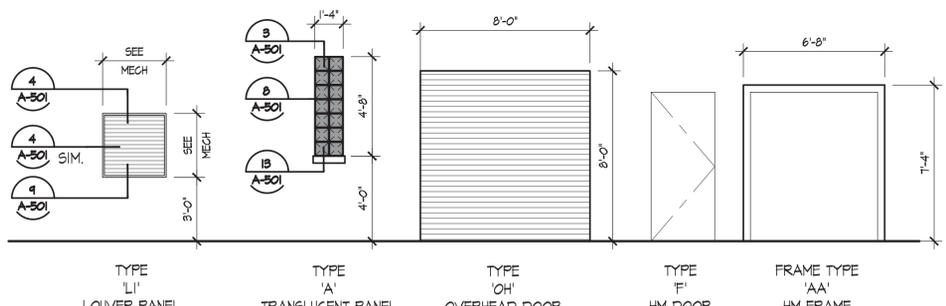
**THRESHOLD** 1/2"=1'-0" **12**



**THRESHOLD** 1/2"=1'-0" **11**



REVISION		
SYMBOL	DATE:	BY:



**DOOR, WINDOW, FRAME AND LOUVER ELEVATIONS** 1/4"=1'-0" **19**

DOOR SCHEDULE											
MARK	SIZE	DOOR-TYPE	MATL	FRAME-TYPE	MATL(I)	HDW	HEAD	JAMB-1	JAMB-2	SILL	REMARKS
101	3'-0" X 7'-0" X 1-3/4" (PR)	F	HM	A	HM	HDW-1	1/A-501	6/A-501	6/A-501	11/A-501	
102	10'-0" X 10'-0"	OH	STL			HDW-2	2/A-501	7/A-501	7/A-501	12/A-501	

**DOOR SCHEDULE**

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

PROJECT NAME:  
 CANONCITO-ELDORADO WATERLINE

HONDO 2 PUMP STA. - DETAILS

APPROVED BY: \_\_\_\_\_ REVIEWED BY: \_\_\_\_\_  
 DATE: FEBRUARY 2020  
 DRAWN BY: N.HERNANDEZ

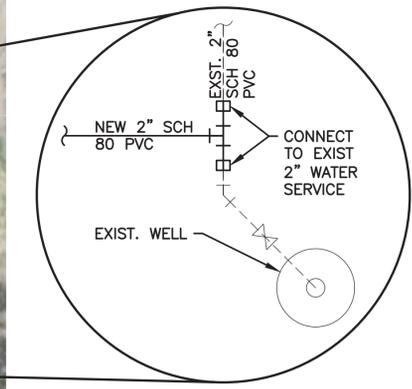


**GENERAL NOTES**

- SEE SHEET C-222 FOR COORDINATES OF PUMP STATION AND PIPING APPURTENANCES

**MOLZENCORBIN**  
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**CONNECTION DETAIL**

*Kenneth R. Miller*  
 KENNETH R. MILLER  
 12548  
 NEW MEXICO  
 PROFESSIONAL ENGINEER  
 2-18-2020

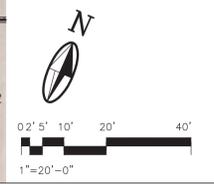
REVISION		
SYMBOL	DATE:	BY:

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

PROJECT NAME:  
 CANONCITO-ELDORADO WATERLINE

HONDO 2 PUMP STA. - YARD PIPING

APPROVED BY: \_\_\_\_\_ REVIEWED BY: S. MORROW  
 DATE: FEBRUARY 2020 SHEET: W-001  
 DRAWN BY: P. DE LA ROSA



Feb 19, 2020 6:42am I:\SANTA FE COUNTY\SFC\B4-11 Canoncito Eldorado Waterline\DWG\S\WBF-001.dwg



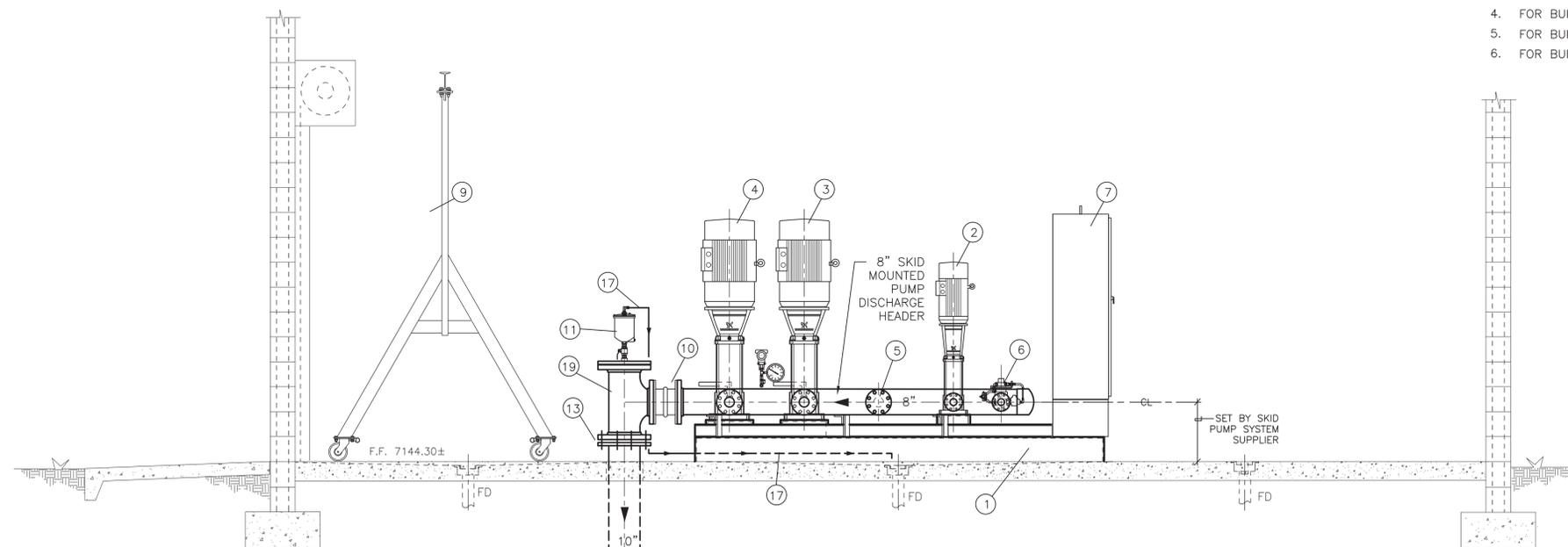
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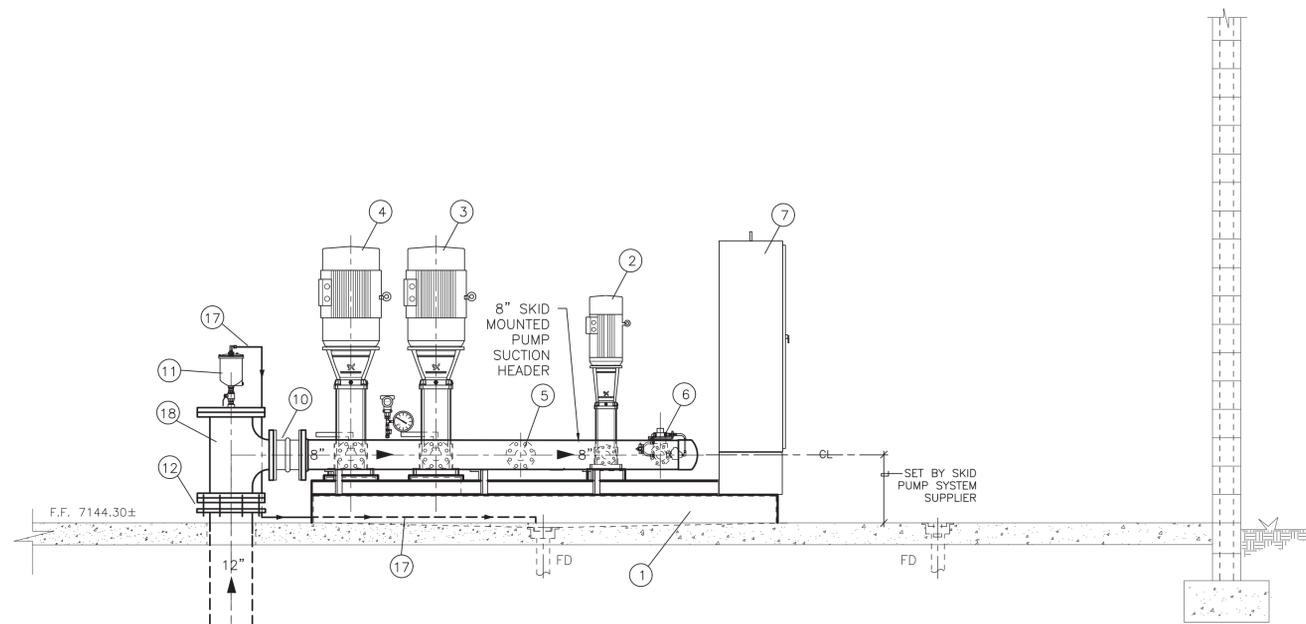
**GENERAL NOTES:**

1. ALL SKID MOUNTED PIPING SHALL BE TYPE 304 STAINLESS STEEL. SEE SPECIFICATIONS.
2. FOR BUILDING SITE PLAN - SEE SHEET C-102
3. FOR BUILDING ARCHITECTURAL DETAILS - SEE SHEET A-101
4. FOR BUILDING STRUCTURAL DETAILS - SEE SHEET S-101
5. FOR BUILDING ELECTRICAL DETAILS - SEE SHEET E-101
6. FOR BUILDING MECHANICAL AND DRAIN PLUMBING DETAILS - SEE SHEET M-101



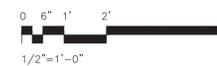
10" SKID BOOSTER PUMPS DISCHARGE FORCEMAIN TO METER VAULT. SEE W-001 FOR TANK/BUILDING YARD PIPING AND W-222 FOR CONTINUATION

**B HONDO 2 PUMP STATION BUILDING DISCHARGE/PIPING - SECTION**  
 W-101 SCALE: 1/2"=1'-0"



12" FIRE STORAGE TANK INLET LINE TO SKID PUMPS SUCTION HEADER. SEE W-001 FOR TANK/BUILDING YARD PIPING PLAN

**C HONDO 2 PUMP STATION BUILDING SUCTION/PIPING - SECTION**  
 W-101 SCALE: 1/2"=1'-0"



*Kenneth R. Miller*  
 12548  
 MEXICO  
 2-18-2020

REVISION		
SYMBOL	DATE:	BY:

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

**SANTA FE COUNTY**  
 PROJECT NAME:  
 CANONCITO-ELDORADO WATERLINE

HONDO 2 PUMP STATION &  
 BUILDING - PIPING SECTIONS B & C

APPROVED BY: REVIEWED BY: S. MORROW  
 DATE: FEBRUARY 2020 SHEET:  
 DRAWN BY: C. J. SPINELLO W-102

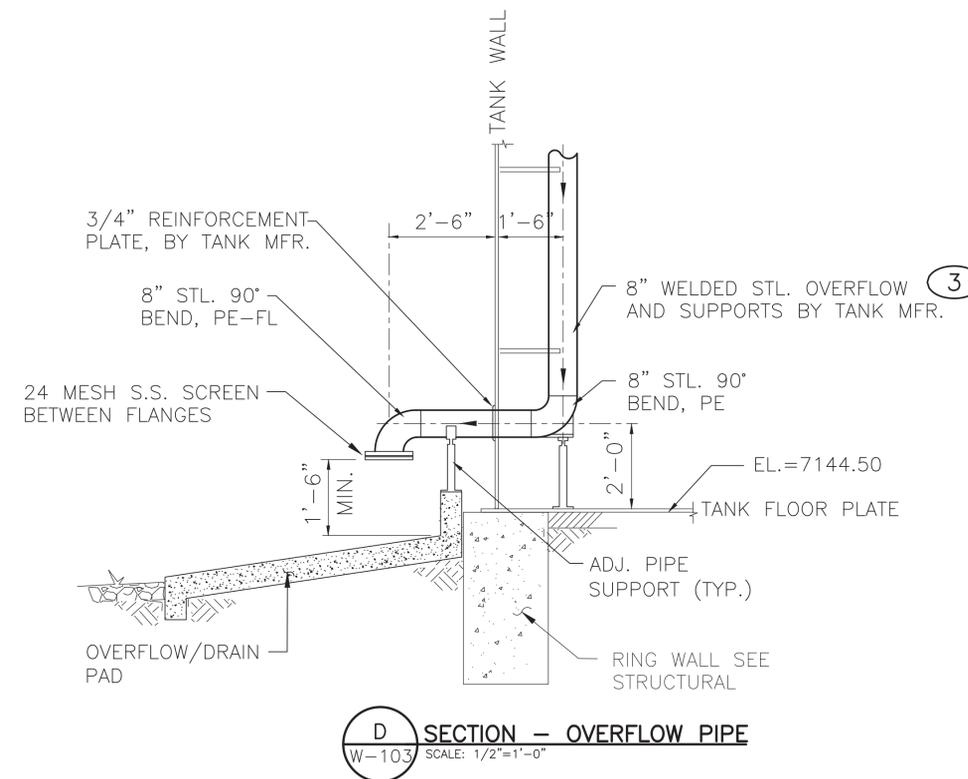
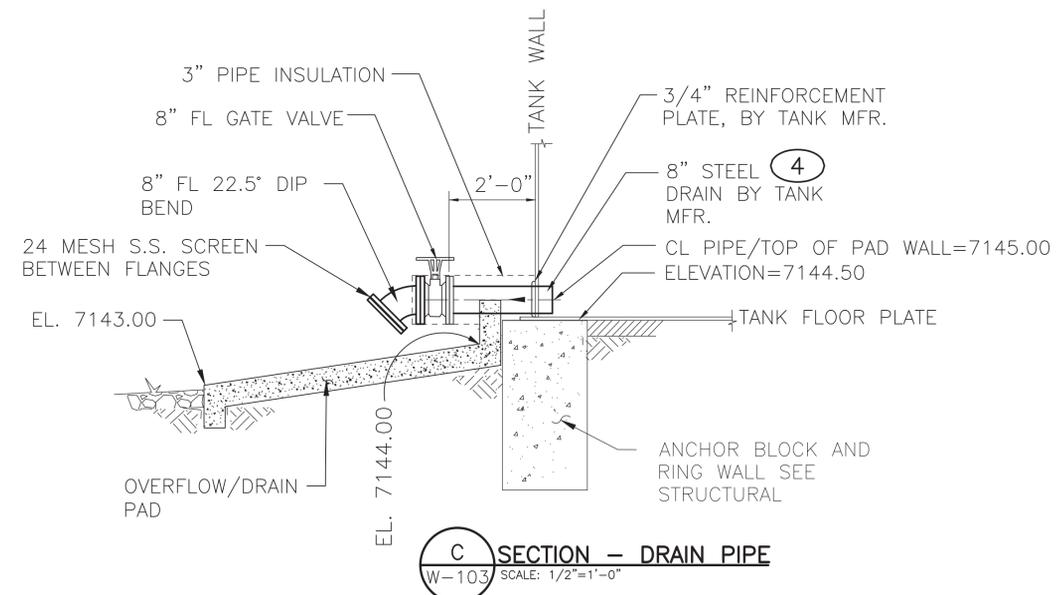
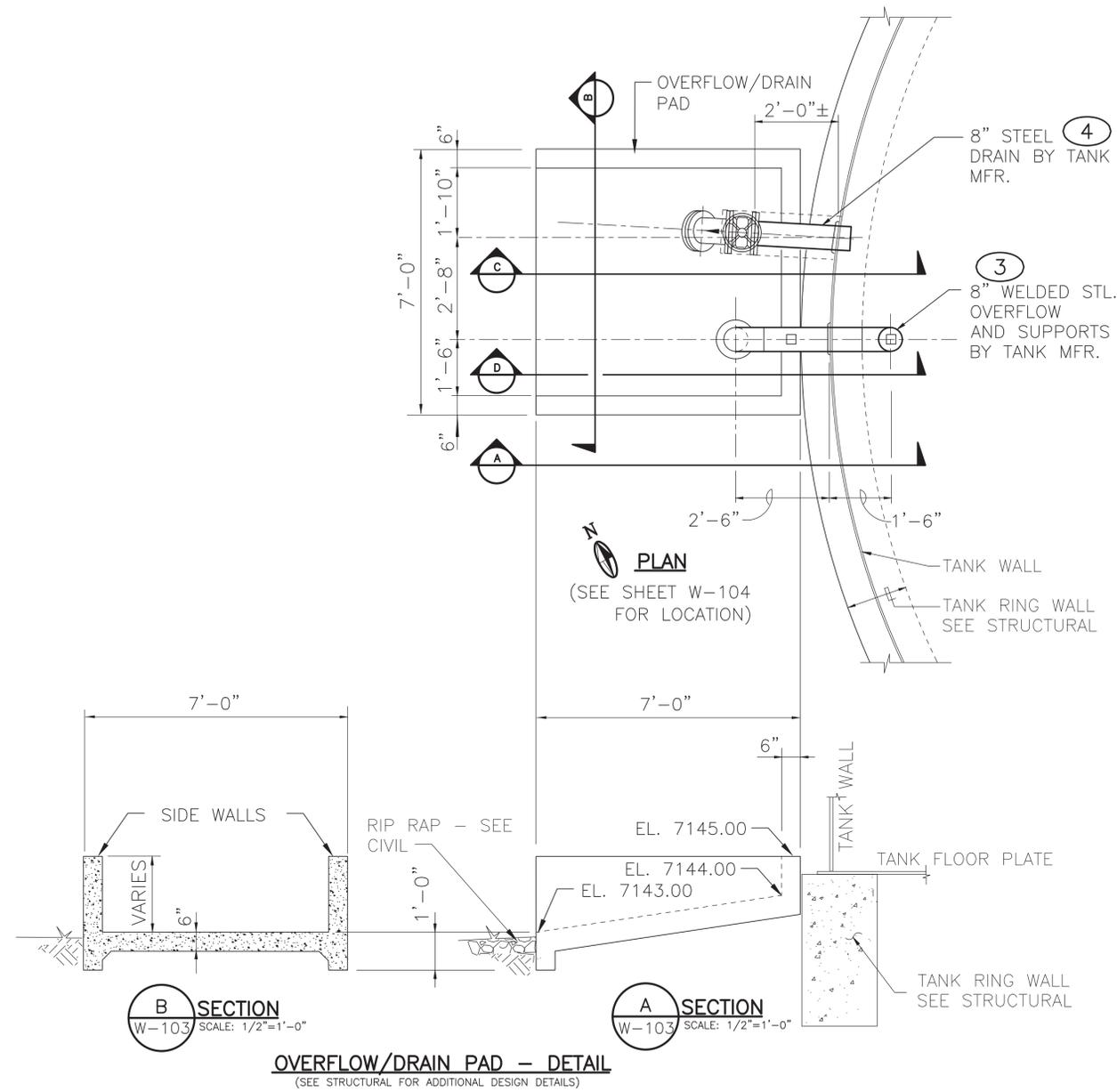
GENERAL NOTES:

- SEE SHEET W-104 FOR KEYED NOTES (X).

**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



*Kenneth R. Miller*  
 KENNETH R. MILLER  
 12548  
 NEW MEXICO  
 PROFESSIONAL ENGINEER  
 2-18-2020

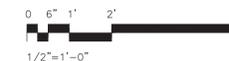
REVISION		
SYMBOL	DATE	BY

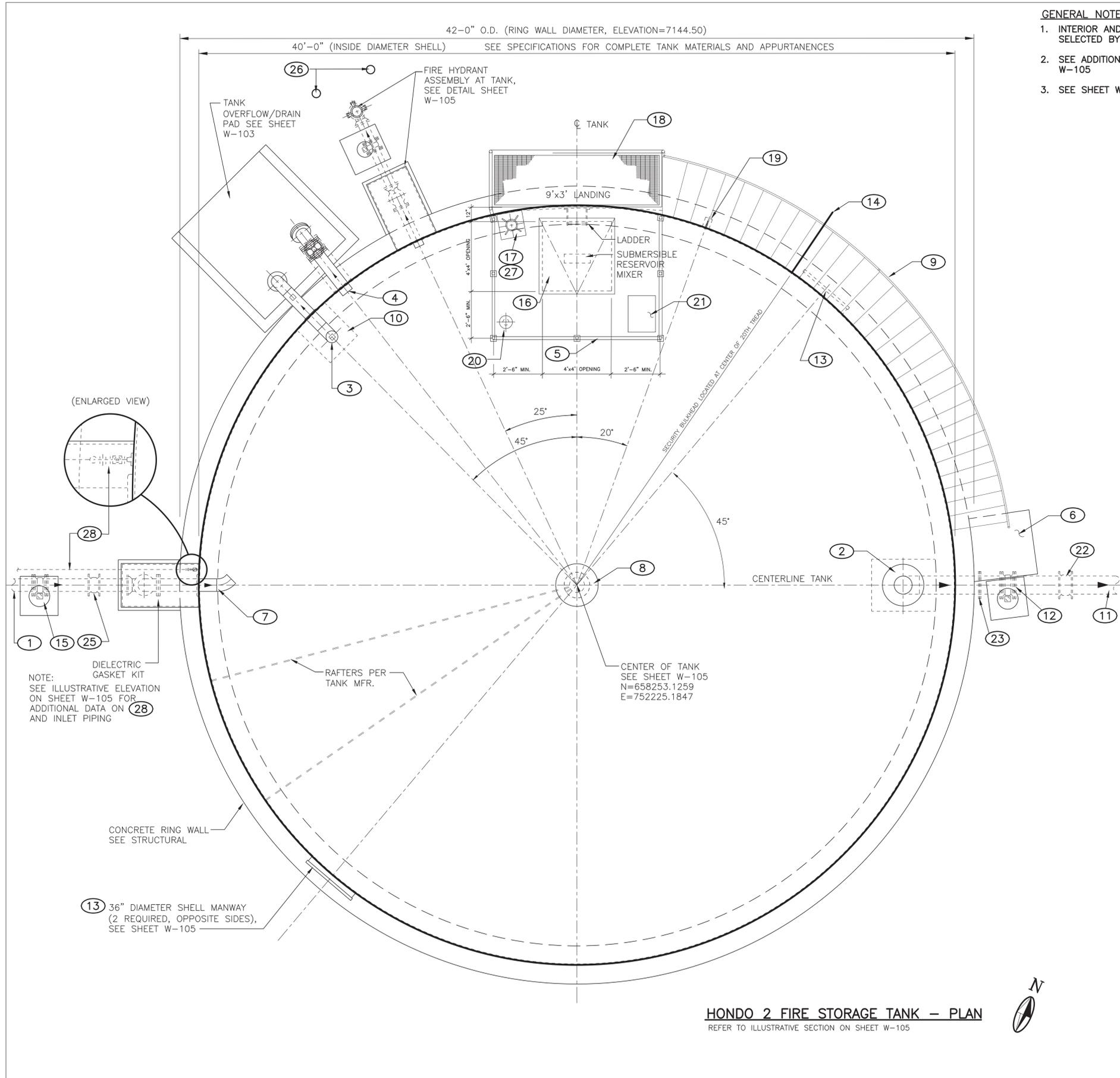
**SANTA FE COUNTY**  
 UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:  
 CANONCITO-ELDORADO WATERLINE

HONDO 2 PUMP STA. FIRE STORAGE  
 TANK - DETAILS

APPROVED BY: *S. MORROW* REVIEWED BY: *S. MORROW*  
 DATE: FEBRUARY 2020 SHEET:  
 DRAWN BY: C. J. SPINELLO W-103





**HONDO 2 FIRE STORAGE TANK - PLAN**  
REFER TO ILLUSTRATIVE SECTION ON SHEET W-105

**GENERAL NOTES**

1. INTERIOR AND EXTERIOR COATINGS PER SPECIFICATIONS, COLOR TO BE SELECTED BY THE OWNER.
2. SEE ADDITIONAL FIRE STORAGE TANK CONSTRUCTION NOTES - SEE SHEET W-105
3. SEE SHEET W-001 FOR ORIENTATION AND YARD PIPING LAYOUT

**KEYED NOTES:**

- 1 8" INLET PIPE SEE ILLUSTRATIVE SECTION SHEET W-105
- 2 12" SUCTION PIPE TO BOOSTER STATION. SEE ILLUSTRATIVE SECTION SHEET W-105
- 3 8" TANK OVERFLOW PIPE SEE DETAILS SHEETS W-103
- 4 8" TANK DRAIN LINE & GV.
- 5 TOP HATCH W/ GUARDRAILS SEE SHEET W-105 & W-106
- 6 STAIR LANDING SEE SHEET W-107
- 7 8" STEEL INLET PIPE W/ 45° BEND @ END SEE SHEET W-105
- 8 TANK SECURITY VENT, SEE SHEETS W-105 AND W-106
- 9 SPIRAL STAIR TREAD DETAIL SEE SHEET W-107
- 10 OVERFLOW WEIR BOX SEE SHEET W-105
- 11 12" LINE TO BOOSTER PUMPS
- 12 12" GV W/ VALVE BOX
- 13 36" DIA. MANWAY, SEE SHEET W-105 & W-106
- 14 SECURITY BULKHEAD DETAIL SEE SHEET W-107
- 15 8" GV W/ VALVE BOX SEE SHEET W-105
- 16 ALUMINUM ACCESS HATCH, 4'-0" x 4'-0", SINGLE LEAF, SPRING ASSIST, SLAM LOCK W/ PAD LOCK HASP. SEE SHEET W-106
- 17 STEEL BASE PLATE ON ROOF BY TANK MANUFACTURER SET LEVEL TO ACCEPT PEDESTAL BASE BY DAVIT CRANE MANUFACTURER. COORDINATE DIMENSIONS AND MEANS OF FASTENING WITH DAVIT CRANE MANUFACTURER.
- 18 UPPER LANDING, 1-1/2" ALUMINUM GRATING, SERRATED. DETAIL SEE SHEET W-105, W-106 AND W-107.
- 19 SAMPLING STATION, SEE DETAIL ON SHEET W-106
- 20 4" SCHEDULE 40 STEEL FLANGED NOZZLE BY 3" LONG ROOF PENETRATION FOR ELECTRICAL INSTRUMENTATION. SEE INSTRUMENTATION NOZZLE FLANGE DETAIL ON W-106. INSTALL NOZZLE WITH 4" CLASS 150 LB. FLANGE IN TRUE HORIZONTAL PLANE. SEE ELECTRICAL FOR INSTRUMENTATION.
- 21 2'-6" X 1'-6" X 1'-6" X 1/4" PLATE STEEL BOX BY TANK SUPPLIER WITH HINGED LID AND PAD LOCK HASP FOR SAFETY HARNESS. TACK WELD BOX TO ROOF.
- 22 12" DIP MJ SOLID SLEEVE, RESTRAINED.
- 23 12" FLANGE WITH DIELECTRIC GASKET KIT.
- 24 NOT USED.
- 25 8" SOLID SLEEVE, RESTRAINED.
- 26 BOLLARD
- 27 PEDESTAL BASE BY DAVIT CRANE MANUFACTURER. SEE SPECIFICATION 41 22 00.
- 28 ALTITUDE VALVE PILOT SENSOR TUBE. 1" TYPE K SOFT TEMPER (BENDABLE) COPPER TUBING. FIELD WRAPPED W/ 20 MIL. PVC PIPE WRAP TAPE FOR CORROSION PROTECTION.

**MOLZENCORBIN**

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

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*Kenneth R. Miller*  
KENNETH R. MILLER  
12548  
REGISTERED PROFESSIONAL ENGINEER  
2-18-2020

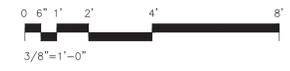
REVISION		
SYMBOL	DATE:	BY:

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

PROJECT NAME:  
CANONCITO-ELDORADO WATERLINE

HONDO 2 PUMP STA.  
FIRE STORAGE TANK - PLAN

APPROVED BY: \_\_\_\_\_ REVIEWED BY: S. MORROW  
DATE: FEBRUARY 2020 SHEET:  
DRAWN BY: C. SPINELLO W-104

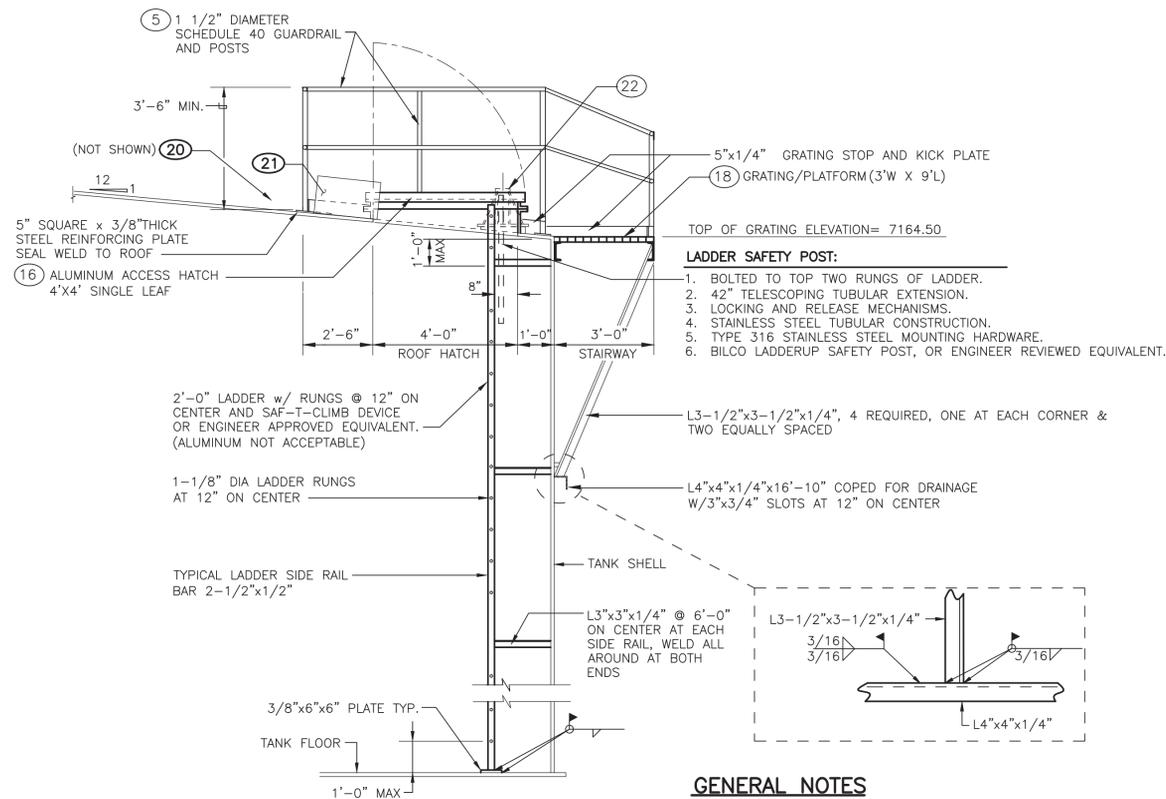




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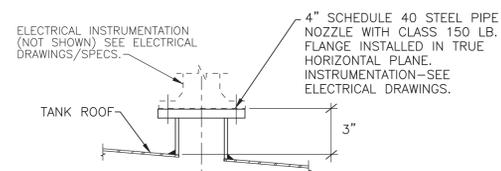


**LADDER SAFETY POST:**

1. BOLTED TO TOP TWO RUNGS OF LADDER.
2. 42" TELESCOPING TUBULAR EXTENSION.
3. LOCKING AND RELEASE MECHANISMS.
4. STAINLESS STEEL TUBULAR CONSTRUCTION.
5. TYPE 316 STAINLESS STEEL MOUNTING HARDWARE.
6. BILCO LADDERUP SAFETY POST, OR ENGINEER REVIEWED EQUIVALENT.

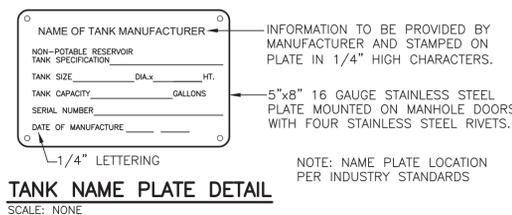
**GENERAL NOTES**

1. FOR KEYED NOTES (X) SEE SHEET W-104
2. FOR FLOAT & MAGNETIC SWITCH AND BRACKET DETAILS - SEE ELECTRICAL DRAWINGS/SPECS.

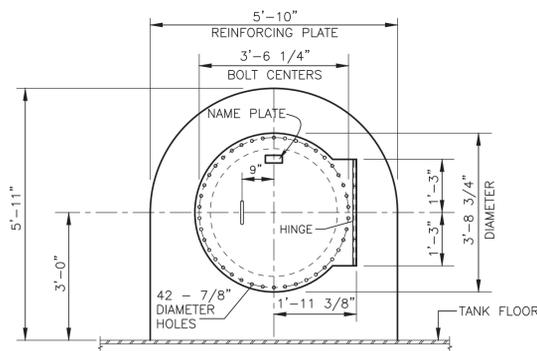
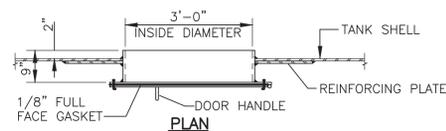


**15 INSTRUMENTATION NOZZLE FLANGE DETAIL**  
 SCALE: NONE

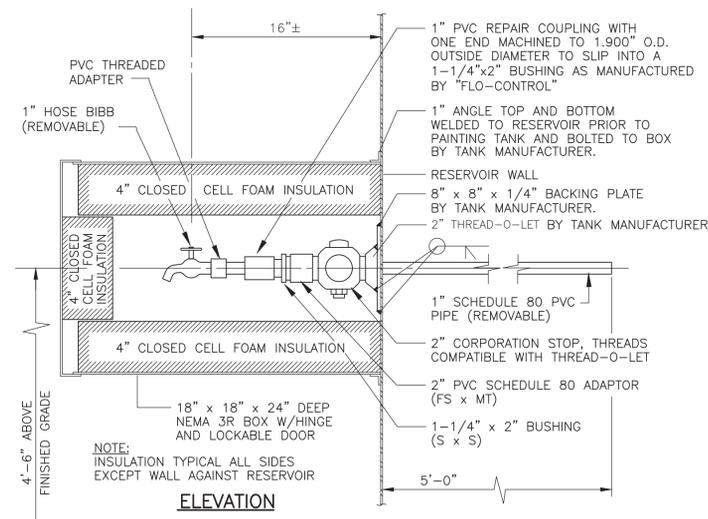
**A SECTION ROOF PLATFORM**  
 THIS SHEET SCALE: NONE



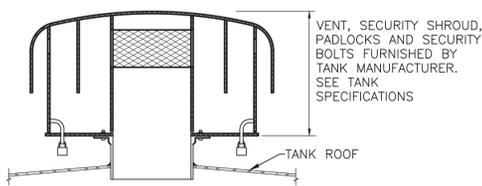
**TANK NAME PLATE DETAIL**  
 SCALE: NONE



**13 36" SHELL MANWAY**  
 SCALE: NONE



**11 SAMPLING STATION DETAIL**  
 SCALE: NONE BY TANK MANUFACTURER.



**8 TANK VENT DETAIL**  
 SCALE: NONE

*Kenneth R. Muller*  
 KENNETH R. MULLER  
 12548  
 NEW MEXICO  
 REGISTERED PROFESSIONAL ENGINEER  
 2-18-2020

REVISION		
SYMBOL	DATE:	BY:

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

PROJECT NAME:  
**CANONCITO-ELDORADO WATERLINE**

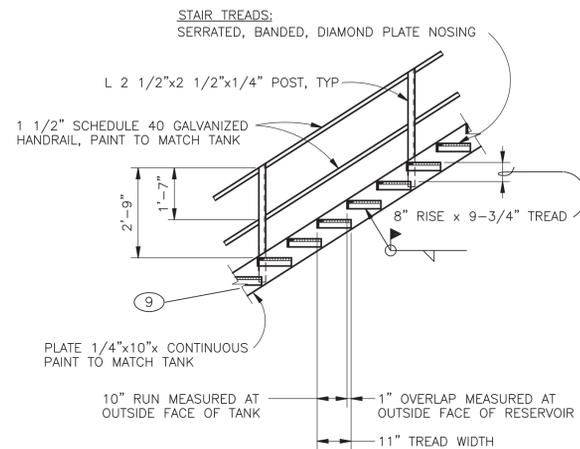
HONDO 2 PUMP STA. FIRE STORAGE TANK - SECTIONS AND DETAILS 1

APPROVED BY: \_\_\_\_\_ REVIEWED BY: S. MORROW  
 DATE: FEBRUARY 2020 SHEET: \_\_\_\_\_  
 DRAWN BY: C. J. SPINELLO W-106

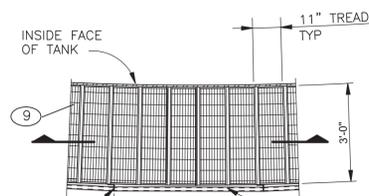
**MOLZENCORBIN**

2701 Miles Road SE  
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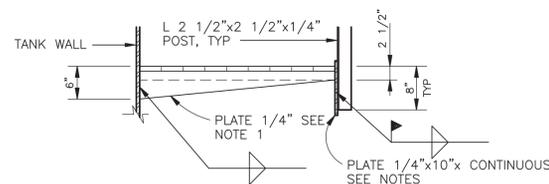
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**PARTIAL STAIR ELEVATION**



**PARTIAL STAIR PLAN**

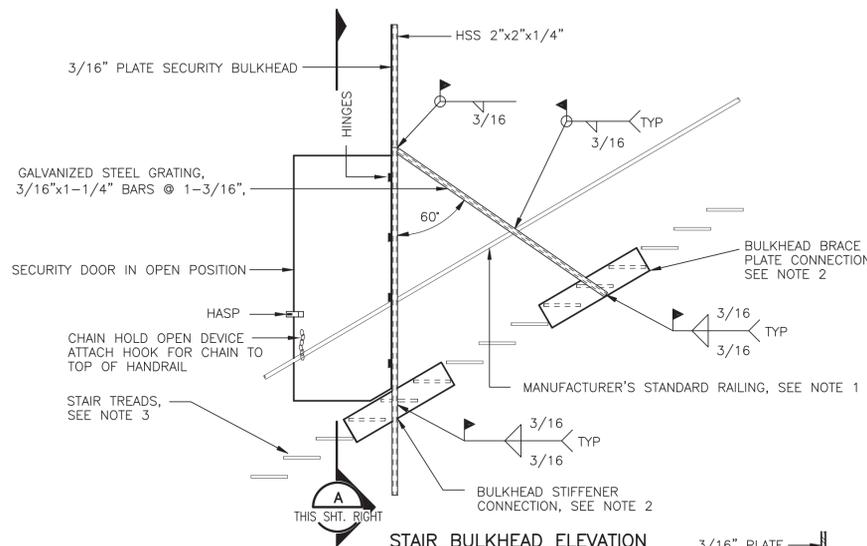


**TREAD ELEVATION**

**NOTES - STAIR DETAIL**

- GUSSET PLATES FOR 2 TREADS ON EACH SIDE OF THE SECURITY BULKHEAD: WELD TREAD TO 1/4" PLATE AT STAIR NOSE. WELD 1/4" PLATE TO TANK WALL AND 10" PLATE AT END OF TREAD.
- PROVIDE 1/4"x10"x CONTINUOUS PLATE AT OUTBOARD EDGE OF TREAD, FULL LENGTH OF STAIR. WELD END OF STAIR TREAD TO THIS PLATE AND HANDRAIL POSTS SPACED AS SHOWN ON STAIR DETAIL.
- PROVIDE 1/4"x REQUIRED PLATE AT INBOARD EDGE OF TREADS, AT TOP OF STAIR, ABOVE TOP OF TANK WALL. WELD PLATE TO TOP OF TANK AND TO LANDING CHANNEL. PROVIDE ADDITIONAL HANDRAIL POST AND HANDRAIL FROM LANDING TO TOP OF TANK ON INBOARD EDGE, ABOVE TOP OF TANK WALL.

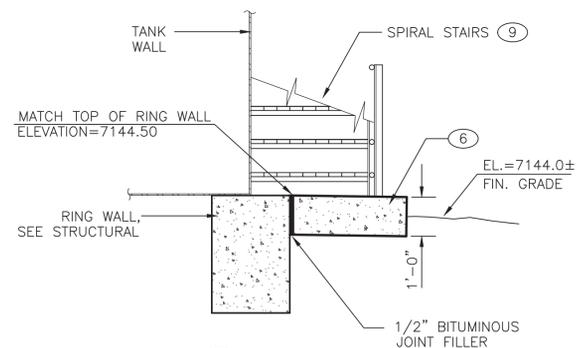
**9 SPIRAL STAIR TREAD DETAILS**  
 SCALE: NONE



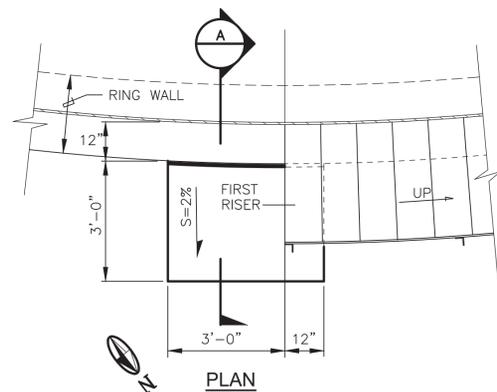
**STAIR BULKHEAD ELEVATION**

**NOTES - STAIR BULKHEAD ELEVATION**

- CUT HANDRAIL AS REQUIRED FOR INSTALLATION OF BULKHEAD STIFFENER FRAME AND BRACES. WELD RAILING TO BULKHEAD AND BRACE FOR COMPLETED INSTALLATION.
- WELD PLATE TO OUTBOARD EDGE OF STAIR AT BULKHEAD SUPPORT AND BRACE LOCATIONS AS REQUIRED.
- TANK MANUFACTURER SHALL DESIGN STAIR TREADS TO ACCOMMODATE LOADS FROM SECURITY BULKHEAD SUPPORT AND BRACING

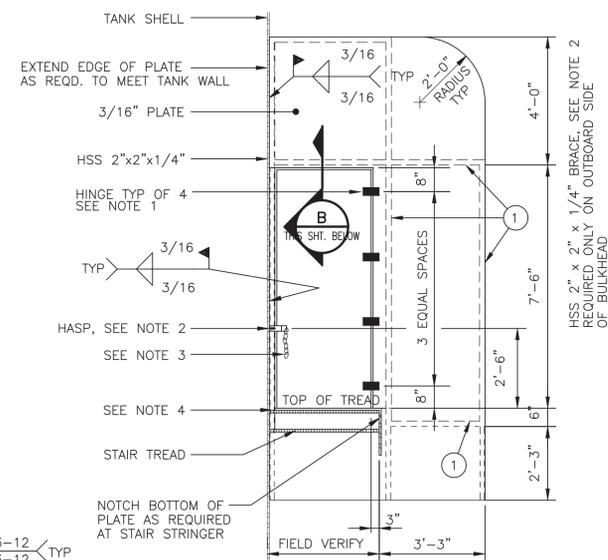


**A SECTION**  
 THIS SHT. BELOW

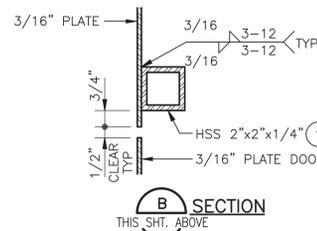


**PLAN**

**6 STAIR LANDING DETAIL AT TANK**  
 SCALE: NONE



**A SECTION**  
 THIS SHT. LEFT

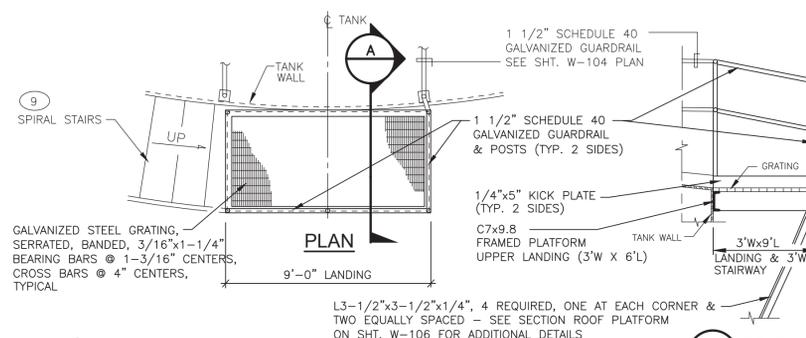


**B SECTION**  
 THIS SHT. ABOVE

**NOTES - SECURITY BULKHEAD DETAIL**

- PROVIDE 4-4" STEEL SURFACE HINGES SHOP WELDED TO DOOR. HINGES SHALL BE MODEL NO. 1607A11 BY McMASTER CARR OR EQUIVALENT.
- PROVIDE HEAVY DUTY SAFETY HASP MODEL NO. 1750A51 BY McMASTER CARR OR EQUIVALENT.
- PROVIDE CHAIN WELDED TO DOOR AND HOOK WELDED TO HANDRAIL SO DOOR CAN BE HELD OPEN.
- CUT HOLE IN TREAD FOR TUBE, INSTALL TUBE THROUGH TREAD AND WELD TREAD TO TUBE.
- LOCATE BULKHEAD AT CENTER OF 20TH TREAD OR AS DIRECTED BY TANK MFR.
- HANDRAIL NOT SHOWN

**14 SECURITY BULKHEAD DETAIL**  
 SCALE: NONE



**15 UPPER LANDING DETAIL AT ROOF**  
 SCALE: NONE

**GENERAL NOTES**

- REFERENCE TO "RESERVOIR" OR "TANK" IS THE SAME AS "FIRE STORAGE TANK" IN ALL NOTES PERTAINING TO THIS PROJECT.
- FOR KEYED NOTES (X) SEE SHEET W-104

*Kenneth R. Miller*  
 KENNETH R. MILLER  
 12548  
 NEW MEXICO  
 REGISTERED PROFESSIONAL ENGINEER  
 2-18-2020

REVISION		
SYMBOL	DATE:	BY:

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

PROJECT NAME:  
 CANONCITO-ELDORADO WATERLINE

HONDO 2 PUMP STATION FIRE STORAGE TANK - SECTIONS AND DETAILS 2

APPROVED BY: REVIEWED BY: S. MORROW  
 DATE: FEBRUARY 2020 SHEET: W-107  
 DRAWN BY: C. J. SPINELLO



**MOLZENCORBIN**

2701 Miles Road SE  
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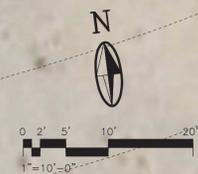
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**SANTA FE COUNTY**  
 UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:  
 CANONCITO-ELDORADO WATERLINE

HONDO 2 PUMP STA. - YARD PIPING

APPROVED BY: \_\_\_\_\_ REVIEWED BY: S. MORROW  
 DATE: FEBRUARY 2020 SHEET:  
 DRAWN BY: P. DE LA ROSA W-108



LOT 10

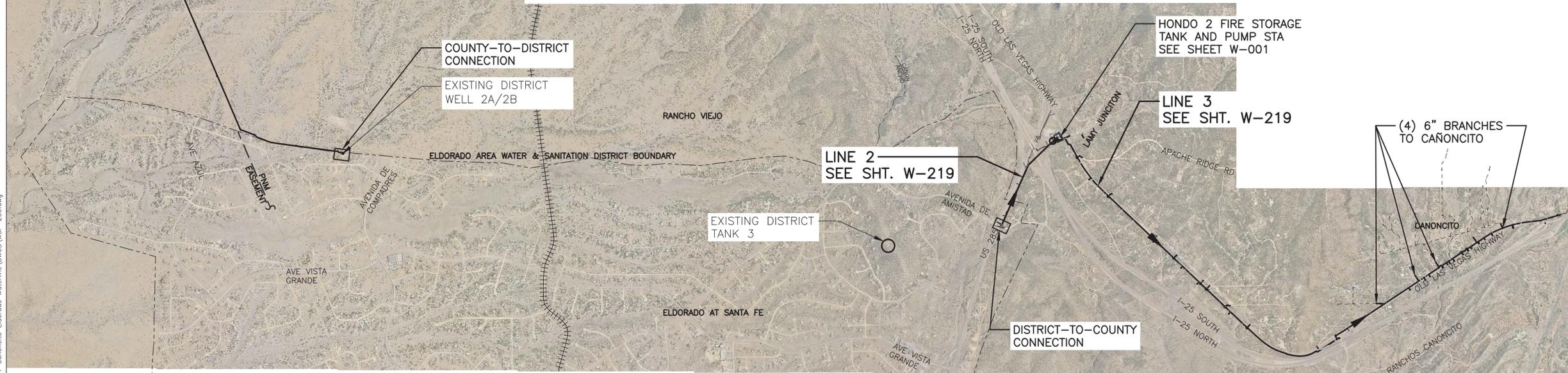
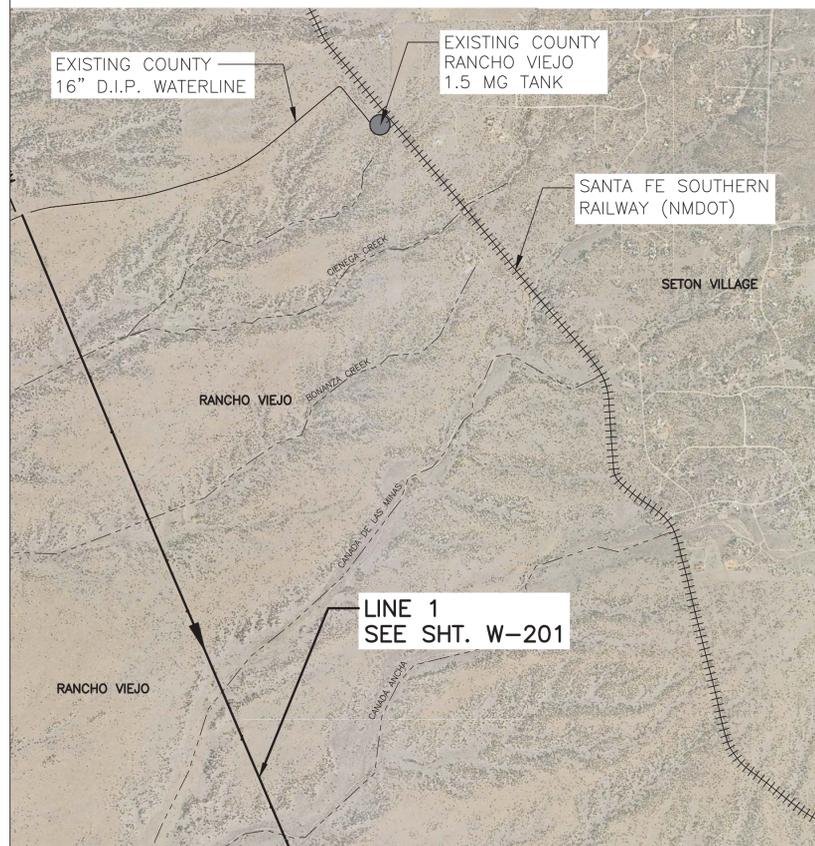
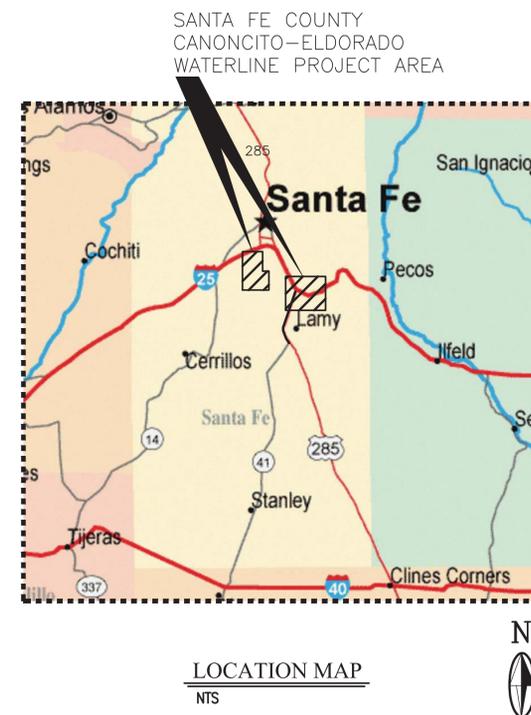
LOT 11

LOT 12

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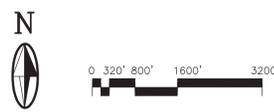
**SANTA FE COUNTY**  
 UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:  
 CANONCITO-ELDORADO WATERLINE

OVERALL PROJECT MAP

APPROVED BY: REVIEWED BY: S. MORROW  
 DATE: FEBRUARY 2020 SHEET :  
 DRAWN BY: P. DE LA ROSA W-200

Feb 18, 2020 3:12pm  
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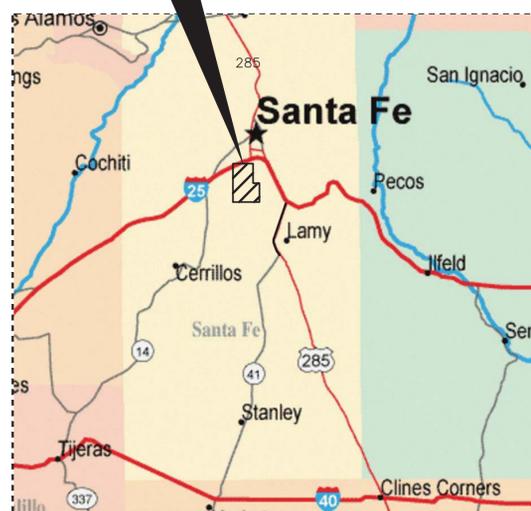


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SANTA FE COUNTY  
 RANCHO VIEJO WATERLINE  
 PROJECT AREA



CANONCITO - PROJECT GROUND COORDINATES

DESCRIPTION	NORTHING	EASTING	ELEVATION
3510545011	651663.467	759450.392	
3510545012	655097.567	765982.830	
RV 53			6838.65

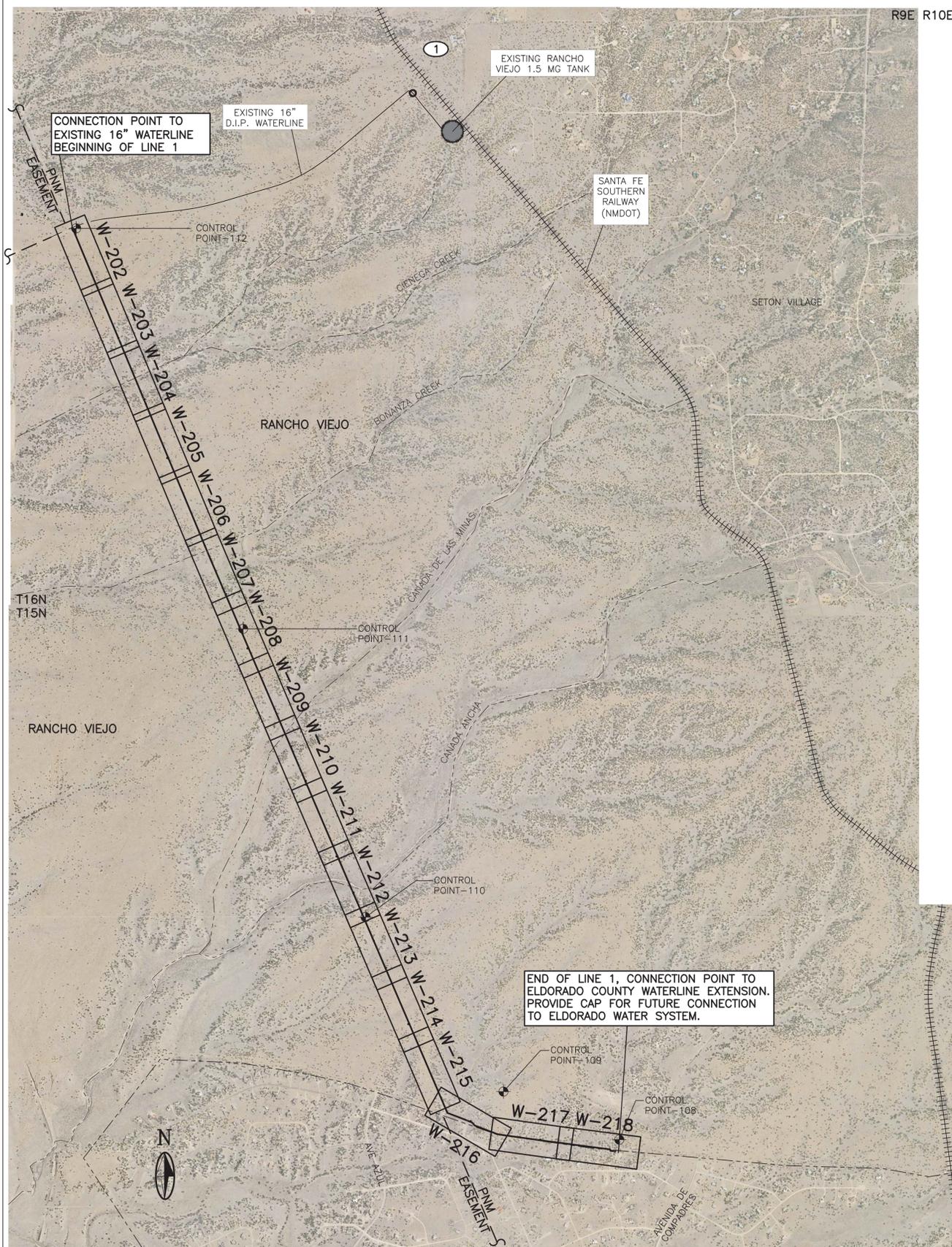
NOTES:

1. NEW MEXICO STATE PLANE COORDINATES - NAD 83 NAVD 88 (Geoid12A) - CENTRAL ZONE
2. TO CONVERT PROJECT GROUND COORDINATES TO STATE PLANE GRID COORDINATES:  
 ADD 1,000,000 TO THE NORTHING AND EASTING, THEN MULTIPLY GROUND COORDINATES BY 0.99958080

CONTROL POINTS TABLE		
CONTROL POINT-#112 REBAR w/PINK CAP N: 674223.650 E: 721633.306 ELEV: 6700.79	CONTROL POINT-#111 REBAR w/PINK CAP N: 667143.239 E: 724597.812 ELEV: 6692.88	CONTROL POINT-#110 REBAR w/PINK CAP N: 662046.480 E: 726772.322 ELEV: 6680.98
CONTROL POINT-#109 REBAR w/PINK CAP N: 658961.120 E: 729220.812 ELEV: 6663.33	CONTROL POINT-#108 CONTROL POINT SPIKE N: 658111.644 E: 731278.180 ELEV: 6676.93	CONTROL POINT-#107 CONTROL POINT SPIKE N: 657736.404 E: 736383.669 ELEV: 6776.72
CONTROL POINT-#106 CONTROL POINT SPIKE N: 657957.113 E: 738554.827 ELEV: 6819.84	CONTROL POINT-#105 CONTROL POINT SPIKE N: 657953.903 E: 744139.652 ELEV: 6949.62	CONTROL POINT-#104 CONTROL POINT SPIKE N: 658349.326 E: 747486.837 ELEV: 7034.22

KEYED NOTES

1. INSTALL NEW COMBINATION AIR VALVE IN ACCORDANCE WITH DETAIL ON SHEET W-507 USING VERTICAL WET TAP. SEE SHEET W-202 FOR PLAN.
  - a. LOCATION OF STATION: OVER EXISTING 16-INCH DIP WATERLINE APPROXIMATELY 5 FEET SOUTHEAST OF EXISTING AIR VALVE BOX.
  - b. TAPPING SLEEVE: 16-INCH TYPE 304L STAINLESS STEEL SLEEVE WITH 4-INCH STAINLESS STEEL OUTLET FLANGE, ANSI 125 LB. PATTERN, RATED FOR 200 PSI WORKING PRESSURE, ANSI/NSF 61 CERTIFIED.
  - c. TAPPING VALVE: STANDARD 4-INCH RESILIENT SEATED GATE VALVE, FL X FL, FUSION BONDED EPOXY COATING INSIDE AND OUTSIDE, WITH HANDWHEEL OPERATOR.
  - d. 4-INCH REDUCING FLANGE WITH 3-INCH THREADED OUTLET AND 3-INCH THREADED STAINLESS STEEL NIPPLE.
  - e. 3-INCH COMBINATION AIR VALVE, WATER SERVICE, SINGLE BODY, THREADED INLET, 300 PSI RATED WORKING PRESSURE, FUSION BONDED EPOXY COATING INSIDE AND OUTSIDE.
  - f. REMAINDER OF STATION WORK ITEMS IN ACCORDANCE WITH THE REFERENCED STATION DETAIL.
  - g. CLOSE ISOLATION VALVE ON ADJACENT EXISTING AIR VALVE AND REMOVE VALVE OPERATOR.



*Kenneth R. Miller*  
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 2-18-2020

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

PROJECT NAME:  
 CANONCITO-ELDORADO WATERLINE

LINE 1 INDEX MAP AND GENERAL NOTES

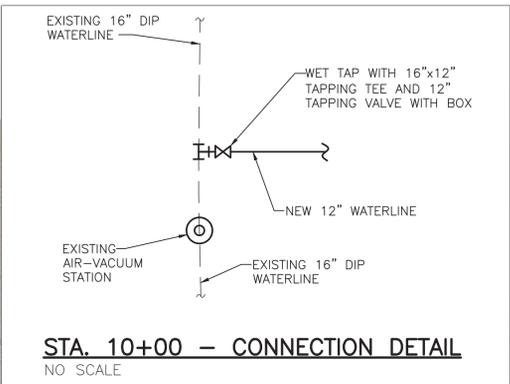
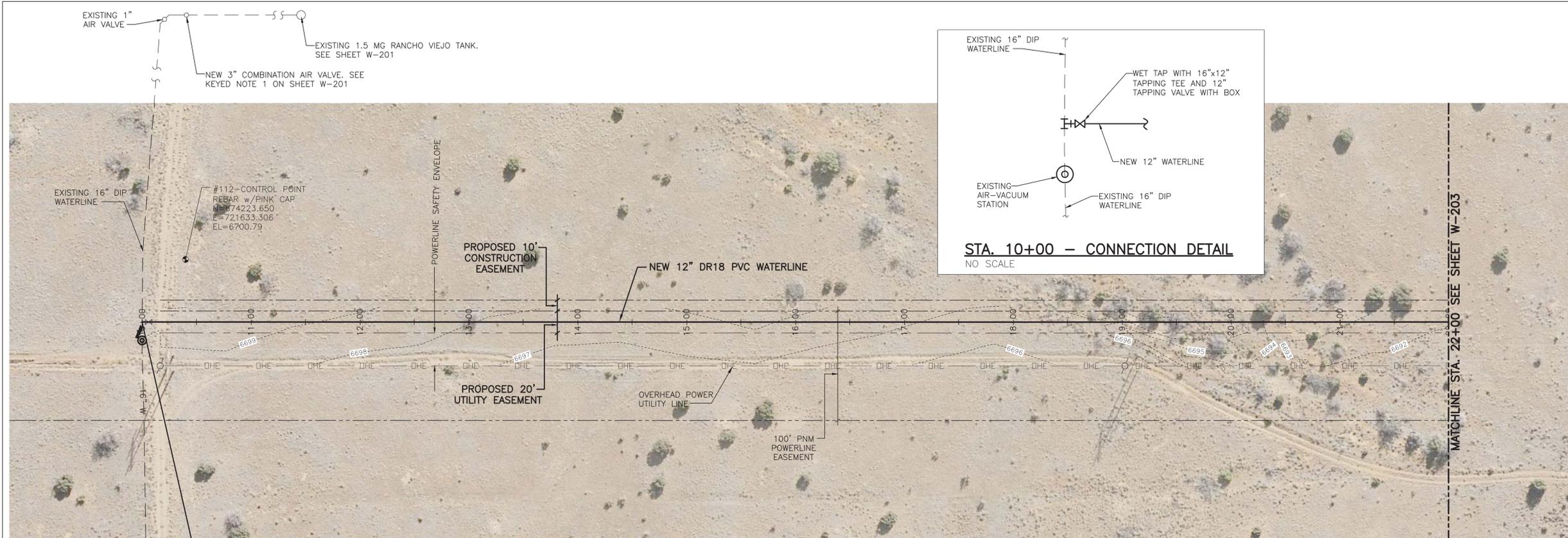
APPROVED BY: REVIEWED BY: S. MORROW  
 DATE: FEBRUARY 2020 SHEET :  
 DRAWN BY: P. DE LA ROSA W-201

Feb 18, 2020 3:14pm I:\SANTA FE COUNTY\SGC\B4-11 Canoncito Eldorado Waterline\DWG\WBF-201.dwg

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 505 242 0673 fax  
 MolzenCorbin.com

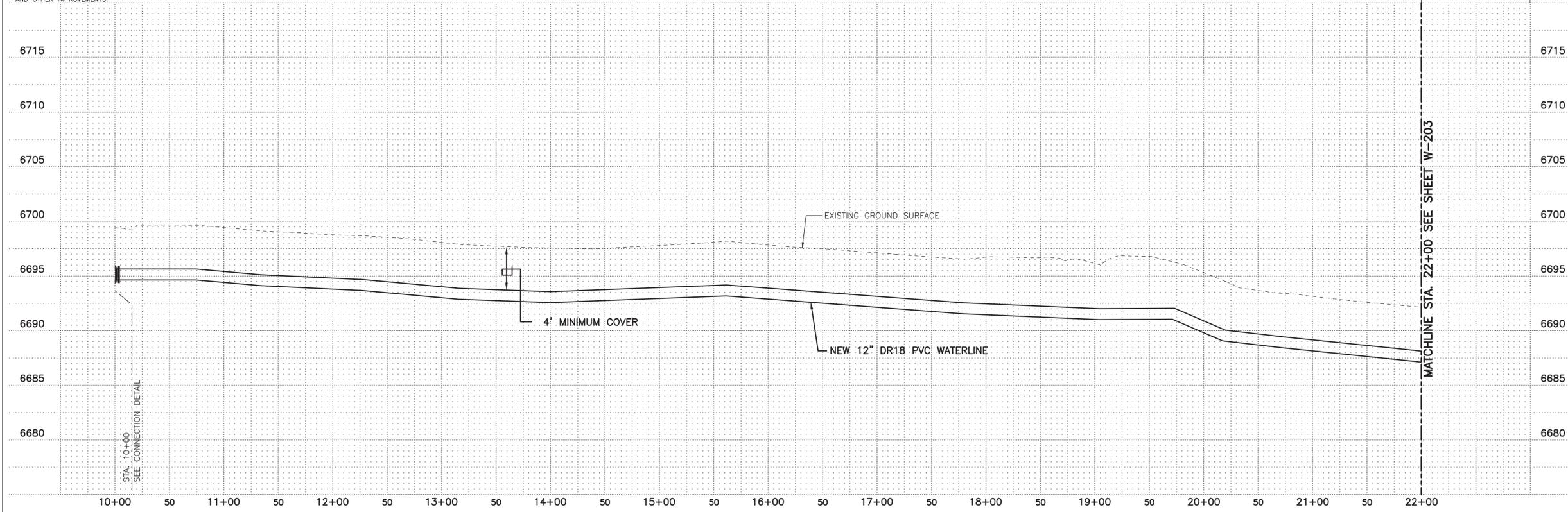
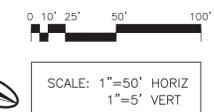
NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE  
 PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
 OF AN UNDISPUTED REQUEST FOR PAYMENT



**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.

**STA. 10+00**  
 CONNECTION TO EXISTING D.I.P. 16" WATERLINE  
 SEE CONNECTION DETAIL THIS SHEET  
 N= 674238.38  
 E= 721565.20

- NOTES:**
1. RESTRAIN ALL VALVES AND FITTINGS WITH JOINT RESTRAINT DEVICES. SEE JOINT RESTRAINT REQUIREMENTS SHEET W-502
  2. CONTROL POINTS SHOWN HEREIN ARE SPECIFIC TO THIS PROJECT AND MAY NOT TRANSLATE TO ANY PUBLISHED COORDINATE SYSTEM.
  3. COVER IS SHOWN AT 4 FT. MINIMUM, DEEPER DEPTHS OF COVER MAY BE REQUIRED IN SOME LOCATIONS TO MAINTAIN POSITIVE SLOPE TO AIR/VACUUM STATIONS AND AT SOME EXISTING UTILITY CROSSINGS. THESE LOCATIONS AND DETAILS WILL BE SHOWN AND NOTED ON THE DRAWINGS.
  4. REFER TO SPECIAL REQUIREMENTS IN SPECIFICATION SECTION 01 12 16 FOR 15-FOOT OSHA CLEARANCE ENVELOPE AROUND HIGH VOLTAGE PNM LINES.



*Kenneth R. Miller*  
 KENNETH R. MILLER  
 12548  
 NEW MEXICO  
 REGISTERED PROFESSIONAL ENGINEER  
 2-18-2020

REVISION		
SYMBOL	DATE:	BY:

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

PROJECT NAME:  
 CANONCITO-ELDORADO WATERLINE

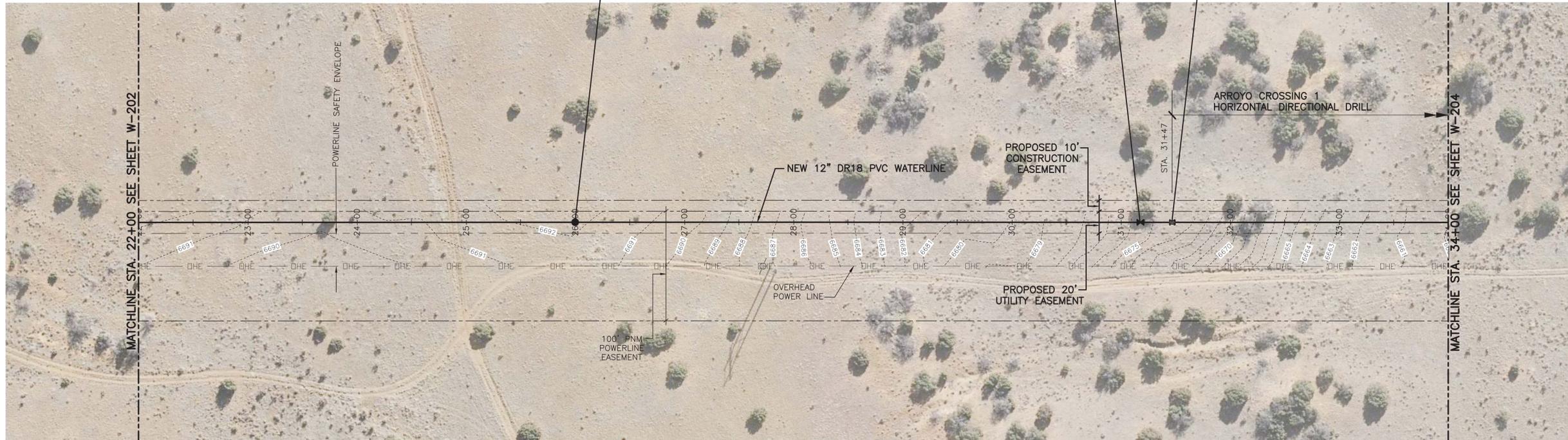
LINE 1 PLAN AND PROFILE STA. 10+00 TO 22+00

APPROVED BY: \_\_\_\_\_ REVIEWED BY: S. MORROW  
 DATE: FEBRUARY 2020  
 DRAWN BY: P. DE LA ROSA SHEET: W-202

**MOLZENCORBIN**

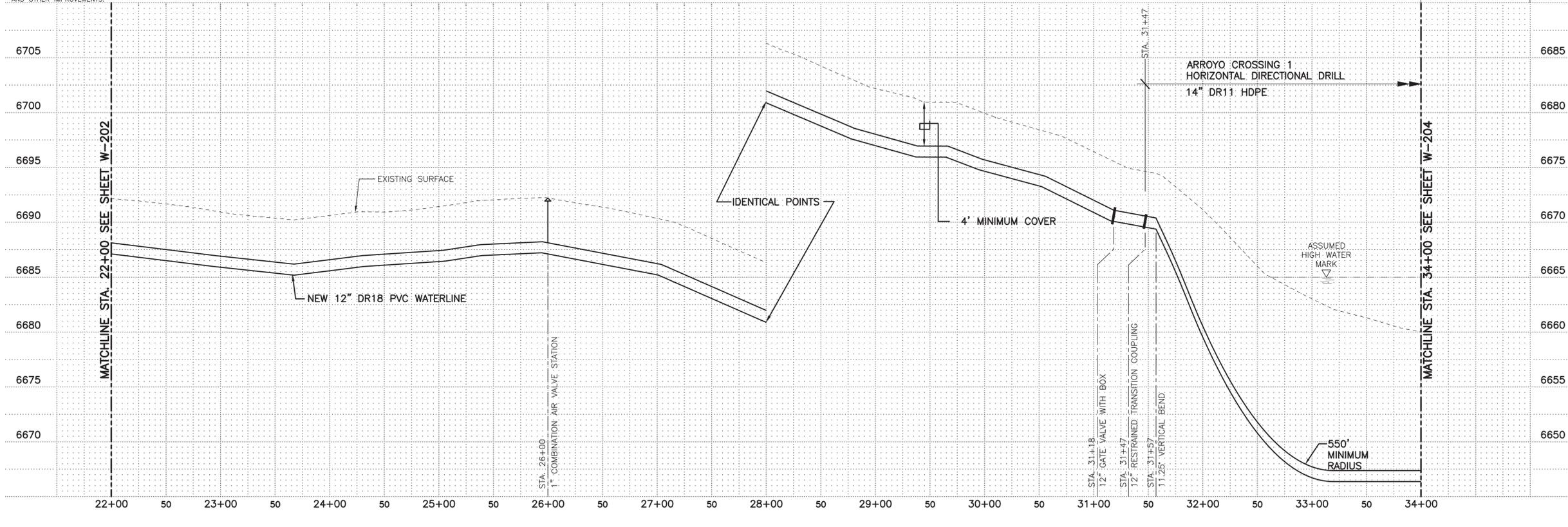
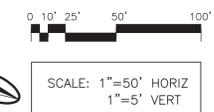
2701 Miles Road SE  
 Albuquerque, New Mexico 87106  
 505 242 5700 office  
 505 242 0673 fax  
 MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION:  
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*Kenneth R. Miller*  
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 2-18-2020

REVISION		
SYMBOL	DATE:	BY:

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

PROJECT NAME:  
 CANONCITO-ELDORADO WATERLINE

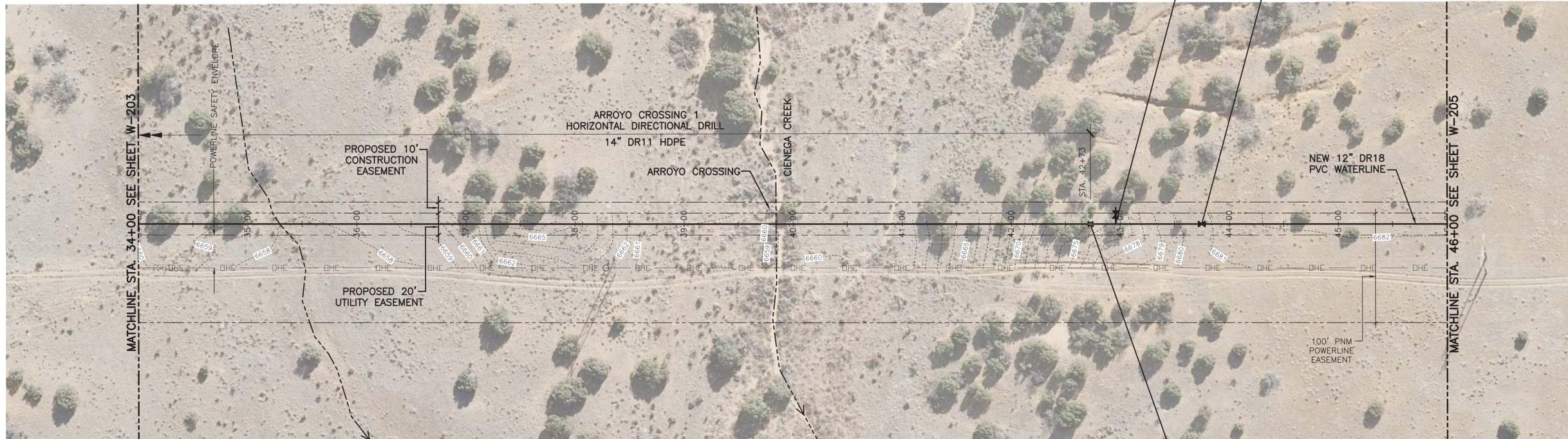
LINE 1 PLAN AND PROFILE STA. 22+00 TO 34+00

APPROVED BY: \_\_\_\_\_ REVIEWED BY: S. MORROW  
 DATE: FEBRUARY 2020 SHEET:  
 DRAWN BY: P. DE LA ROSA W-203

**MOLZENCORBIN**

2701 Miles Road SE  
 Albuquerque, New Mexico 87106  
 505 242 5700 office  
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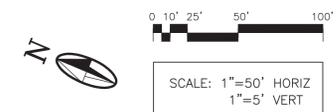
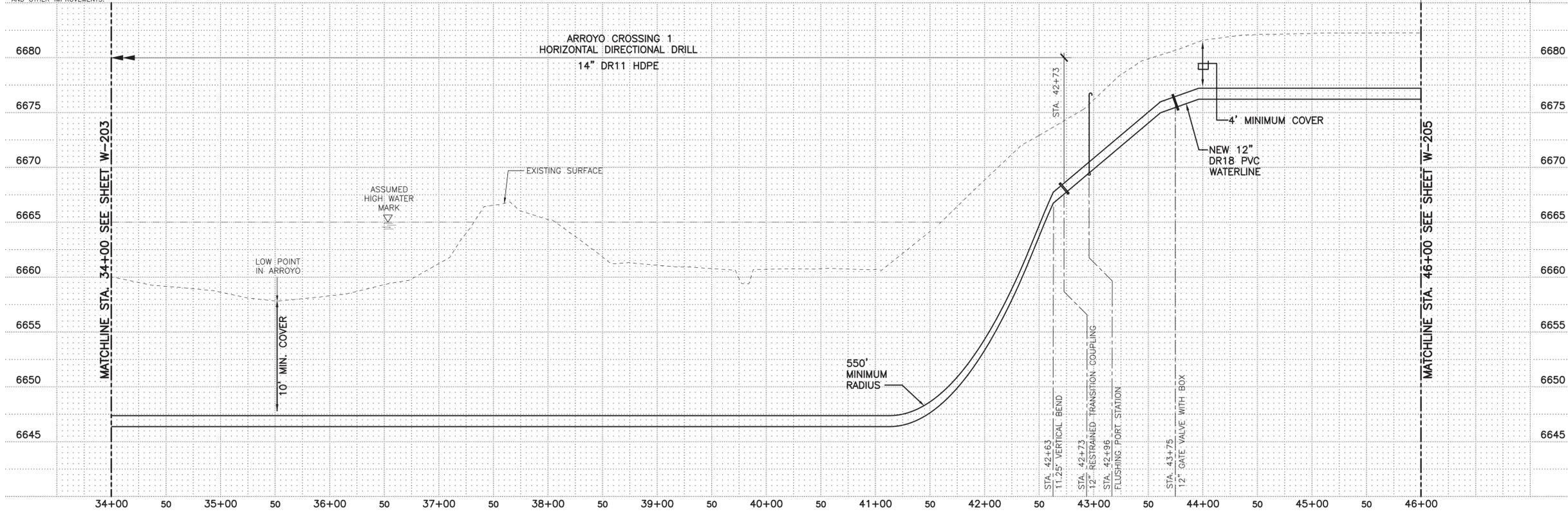
*NOTICE OF EXTENDED PAYMENT PROVISION:*  
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 2-18-2020

REVISION		
SYMBOL	DATE:	BY:

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

PROJECT NAME:  
 CANONCITO-ELDORADO WATERLINE

LINE 1 PLAN AND PROFILE STA. 34+00 TO 46+00

APPROVED BY: \_\_\_\_\_ REVIEWED BY: S. MORROW  
 DATE: FEBRUARY 2020  
 DRAWN BY: P. DE LA ROSA SHEET: W-204