

REPLACEMENT OF LOS VENADOS STAND PIPE

22860 NORTH HIGHWAY 281

EDINBURG TEXAS, 78542

BID NO.: 2018-82

JULY 2019

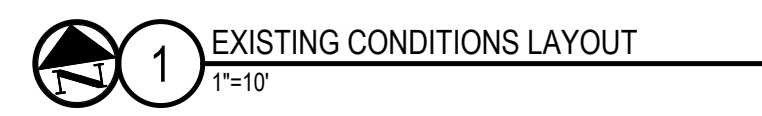
CITY OFFICIALS

RICHARD MOLINA
DAVID TORRES
GILBERT ENRIQUEZ
HOMER JASSO JR
JORGE SALINAS
JUAN G. GUERRA, CPA
MARDOQUEO HINOJOSA, P.E., CFM, CPM
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MAYOR
MAYOR PRO TEM
CITY COUNCIL MEMBER
CITY COUNCIL MEMBER
CITY COUNCIL MEMBER
CITY MANAGER
CITY ENGINEER
DIRECTOR OF UTILITIES
DIRECTOR OF FINANCE



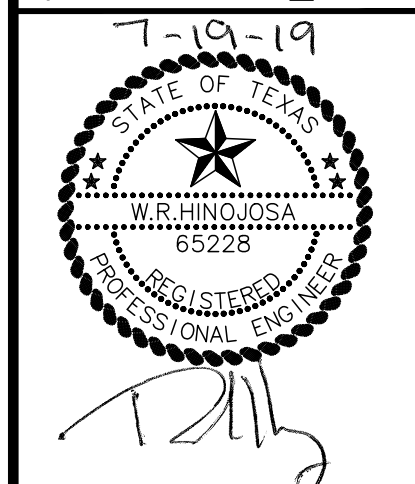
<div>GENERAL NOTES (CONT.)</div> <div><div><div>1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE CITY OF EDINBURG PUBLIC WORKS AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:</div><div><div>1.1. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290.</div><div>1.2. CURRENT "TxDOT" STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE."</div><div>1.3. CURRENT CITY OF EDINBURG "WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION."</div><div>1.4. CURRENT CITY OF EDINBURG "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION."</div><div>1.5. CURRENT CITY OF EDINBURG "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).</div></div></div><div>2. THE CONTRACTOR SHALL OBTAIN CITY OF EDINBURG STANDARD DETAILS FROM CITY OF EDINBURG WEBSITE, UNLESS OTHERWISE NOTED WITHIN DESIGN PLANS.</div><div>3. THE CONTRACTOR IS TO NOTIFY AND MAKE ARRANGEMENTS WITH THE CITY OF EDINBURG CONSTRUCTION INSPECTION DIVISION AT (956)388-8212, AND PROVIDE NOTIFICATION PROCEDURES THE CONTRACTOR WILL USE TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO EXCAVATION.</div><div>4. LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION.</div><div>5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 1 TO 2 WEEKS PRIOR TO CONSTRUCTION WETHER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES REQUESTING PIPE LOCATION MARKERS ON CITY OF EDINBURG FACILITIES. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:</div><div>TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811</div><div>6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, SIDEWALKS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION AS A RESULT OF DAMAGES DONE BY THE PROJECT'S CONSTRUCTION, AT NO ADDITIONAL COST TO CITY OF EDINBURG. THIS EXCLUDES ITEMS IDENTIFIED FOR DEMOLITION IN THESE PLANS.</div><div>7. ALL WORK IN TEXAS HIGHWAY DEPARTMENT AND HIDALGO COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT.</div><div>8. THE CONTRACTOR SHALL COMPLY WITH CITY OF EDINBURG OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.</div><div>9. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAN PERMIT.</div><div>10. ANY WORK COMPLETED WITHOUT PRIOR WRITTEN AUTHORIZATION WHICH IS NOT INCLUDED IN THESE PLANS AND SPECIFICATIONS WILL NOT BE COMPENSATED BY THE CITY OF EDINBURG WATER SYSTEM.</div><div>11. HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM CITY OF EDINBURG WORK ON CITY OF EDINBURG RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO THE CITY OF EDINBURG. WEEKEND WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE CITY OF EDINBURG INSPECTION CONSTRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK. REQUEST SHOULD BE SENT TO THE CITY OF EDINBURG.</div><div>ANY AND ALL CITY OF EDINBURG UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.</div><div>12. PRE-CON SITE VIDEO: BEFORE THE START OF ANY CONSTRUCTION, THE SITE MUST BE VIDEO RECORDED BY THE CONTRACTOR WITH ONE COPY SUBMITTED TO CITY OF EDINBURG INSPECTIONS. A PRE-SITE VIDEO WILL PROVIDE ACCURATE DOCUMENTATION OF EXISTING CONDITIONS. (N.S.P.I.)</div><div>13. POWER POLE BRACING: CONTRACTOR SHOULD BE ADVISED THAT THERE ARE EXISTING OVERHEAD UTILITY POLES ALONG THE PROJECT CORRIDOR. CONTRACTORS SHOULD BE ADVISED THAT IF THE DISTANCE FROM THE OUTSIDE FACE OF A UTILITY TRENCH TO THE FACE A UTILITY POLE IS LESS THAN 5 FEET, SAID UTILITY POLE IS SUBJECT TO BRACING, BASED ON A DETERMINATION MADE BY UTILITY POLE OWNER. COSTS INCURRED BY CONTRACTOR FOR BRACING OF THESE UTILITY POLES IS SUBSIDIARY TO THAT RESPECTIVE UTILITY COMPANY'S WORK. IT IS ADVISED THAT FOR THE CONTRACTOR TO REVIEW THE CONSTRUCTION DOCUMENTS, AND VISIT THE SITE TO DETERMINE POTENTIAL IMPACTS.</div></div> <div><div>GENERAL WATER NOTES</div><div><div>1. ANY SHUTDOWN OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE CITY OF EDINBURG INSPECTION AND/OR CITY OF EDINBURG PRODUCTION GROUPS AT LEAST ONE WEEK OR MORE IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.</div><div>2. ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOS-CONTAINING MATERIAL (ACM), MAYBE LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL, AND/OR DISTURBANCE OF THIS PIPE OCCURS. PAYMENT FOR SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, "SPECIAL SPECIFICATIONS FOR HANDLING ASBESTOS CEMENT PIPE".</div><div>3. VALVE REMOVAL: WHERE THE CONTRACTOR IS TO REMOVE A WATER MAIN, THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG (N.S.P.I.).</div></div></div> <div><div>GENERAL NOTES</div><div><div>1. NOT USED.</div><div>2. NOT USED.</div><div>3. CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD CITY OF EDINBURG AND THE CONSULTANT HARMLESS FROM ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT.</div><div>4. THE CONTRACTOR IS REQUIRED TO VERIFY PROJECT ELEVATIONS. "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY VERTICAL AND HORIZONTAL ALIGNMENT.</div><div>5. ANY DISCREPANCY OR CONFLICT WITHIN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSULTANT. NEW DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE CONSULTANT'S ATTENTION AND CLARIFIED DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY OR DIFFICULT MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF THE WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE CONSULTANT'S INTERPRETATION. ALL ITEMS, WORK, AND IMPROVEMENTS SHOWN OR INDICATED IN THE CONSTRUCTION DOCUMENTS SHALL BE COMPLETED FOR THE PRICES BID, WETHER OR NOT A SEPARATE PAY ITEM IS INCLUDED IN THE CONTRACT.</div><div>6. THE CONTRACTOR SHALL FURNISH ALL ASSISTANCE REQUIRED OF HIM OR HER BY INSPECTORS IN OBTAINING SAMPLES AT THE EXPENSE OF THE CONTRACTOR.</div><div>7. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING WATER LINES IN SERVICE AT ALL TIMES DURING CONSTRUCTION (UNLESS OTHERWISE INDICATED IN THESE PLANS).</div><div>8. ELECTRICAL LINES ARE LOCATED IN THE PROJECT AREA. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO STATE LAW (HEALTH AND SAFETY CODE, TITLE 9, SUBTITLE A, CHAPTER 752) CONCERNING CONSTRUCTION OPERATIONS IN THE VICINITY OF ELECTRICAL LINES AND THE NEED FOR EFFECTIVE PRECAUTIONARY MEASURES.</div><div>9. THESE PLANS, PREPARED BY HINOJOSA ENGINEERING, INC. DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF HINOJOSA ENGINEERING, INC. IS LICENSED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THE WORK. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS. CONTRACTOR MUST ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS ARE TO BE OBTAINED AT THE CONTRACTOR'S EXPENSE.</div><div>11. CONTRACTOR SHALL COORDINATE INTERRUPTIONS OF ALL UTILITIES AND SERVICES WITH APPLICABLE UTILITY COMPANY OR COMPANIES. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY COMPANY OR AGENCY INVOLVED.</div><div>12. CONTRACTOR SHALL LOCATE, PROTECT AND MAINTAIN BENCHMARKS, MONUMENTS AND CONTROL POINTS. THE CONTRACTOR SHALL RE-ESTABLISH AND PROPERTY MARKER, BENCHMARK, ETC. DISTURBED DURING CONSTRUCTION TO ITS ORIGINAL LOCATION AND ELEVATION. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VERTICAL AND HORIZONTAL CONTROL SHOWN ON THE PLANS THROUGHOUT THE PROJECT.</div><div>13. EXISTING PAVING, BUILDINGS, AND OTHER ITEMS SHOWN ON PLANS NOT SPECIFICALLY RELATED TO THE WORK OF THE CONTRACT ARE FOR INFORMATIONAL PURPOSES ONLY.</div><div>14. ANY CHANGES OR REVISIONS TO THESE PLANS MUST FIRST BE SUBMITTED TO CITY OF EDINBURG FOR REVIEW AND WRITTEN APPROVAL.</div><div>15. NO SEPARATE PAY FOR ITEMS REQUIRED BY NOTES ON THIS SHEET, UNLESS INCLUDED ON PROPOSAL FORM.</div><div>16. CONTRACTOR SHALL MECHANICALLY RESTRAIN ALL PRESSURE PIPE, INCLUDING DUCTILE IRON FITTING CONNECTIONS TO ALL PRESSURE PIPE, UNLESS OTHERWISE NOTED. (N.S.P.I.)</div><div>17. ALL PIPE INSTALLED SHALL CONFORM TO CITY OF EDINBURG STANDARDS AND REQUIREMENTS. PIPE PRESSURE CLASS SHALL BE PER THE SPECIFICATIONS. ALL PIPE SHALL BE WELDED STEEL PER SPECIFICATIONS UNLESS INDICATED OTHERWISE. ANY MECHANICAL AND PUSH-ON PIPE SHALL BE FULLY RESTRAINED.</div><div>18. THE CONTRACTOR SHALL PROVIDE A COURSE OF ACTION PLAN FOR THE OCCURRENCE OF AN ACCIDENTAL SPILL OF FUEL OR OTHER SUBSTANCE DURING CONSTRUCTION. THE ACTION PLAN SHALL BE SUBMITTED FOR REVIEW TO CITY OF EDINBURG AND NO CONSTRUCTION OR MOBILIZATION SHALL OCCUR PRIOR TO ACCEPTANCE OF THE ACTION PLAN.</div><div>19. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING WATER LINES AND THRUST BLOCKING WHEN EXCAVATING NEAR OR BENEATH EXISTING FACILITIES. UTILITIES AND PIPELINES TO BE DISTURBED BY NEW WORK SHALL BE PROTECTED. CONTRACTOR SHALL VERIFY WETHER EXISTING PIPE IS OR IS NOT RESTRAINED PRIOR TO CONSTRUCTION.</div></div></div> <div><div>GENERAL NOTES (CONT.)</div><div><div>20. FIELD VERIFY LOCATION, DEPTH, JOINT LOCATIONS AND TYPE OF PIPE LOCATION AND SIZE OF ALL UNKNOWN PIPES TO BE CONNECTED TO, CROSSED, ETC., PRIOR TO ORDERING MATERIAL, OR DOING ANY NEW PIPE WORK. IN SITUATIONS WHERE THE EXISTING PIPE SIZE OR TYPE DIFFERS FROM THAT BETWEEN NEW BURIED PIPING AND EXISTING UTILITY PIPING, ELECTRICAL CONDUITS, ETC., INCLUDING LOCATIONS WHERE THE EXISTING PIPING WILL BE WITHIN THE LIMITS OF TRENCHING FOR NEW PIPE, THE CONTRACTOR SHALL DO THE FOLLOWING:</div><div>20.1. FIELD LOCATE EXISTING PIPING AND DETERMINE THE ACTUAL EXTENT OF THE CONFLICT.</div><div>20.2. IF CONTRACTOR CAN "WORK AROUND" THE EXISTING PIPING IN THE CONSULTANT'S OPINION, THE EXISTING PIPING SHALL BE SUPPORTED AND PROTECTED AND KEPT IN SERVICE AS SPECIFIED ELSEWHERE.</div><div>20.3. IF THERE IS AN UNWORKABLE CONFLICT, THE CONTRACTOR SHALL PROPOSE A SOLUTION ACCEPTABLE TO THE CONSULTANT AND BE PART OF OR REROUTE THE NEW OR EXISTING PIPE AS NECESSARY TO ELIMINATE CONFLICT.</div><div>20.4. THIS WORK WILL BE CONSIDERED TO BE PART OF THE BASIC CONTRACT AND NO ADDITIONAL PAYMENT WILL BE MADE FOR ADJUSTMENTS/REROUTES OF EXISTING PIPING SHOWN ON THE PLANS.</div><div>21. THE CONTRACTOR SHALL NOTIFY THE OWNER AND CONSULTANT AND ALL RESPECTIVE GOVERNMENT OR UTILITY AGENCIES AFFECTED BY CONSTRUCTION 72 HOURS PRIOR TO STARTING CONSTRUCTION. SEE NOTE 5.</div><div>22. CONTRACTOR SHALL SUBMIT PRE-CONSTRUCTION SITE VIDEO, AT OR BEFORE THE PRE-CONSTRUCTION MEETING, TO THE OWNER AND CONSULTANT. SEE NOTE 12.</div><div>23. IF IN THE OPINION OF THE INSPECTOR, BASED ON TESTING SERVICE REPORTS AND INSPECTION, MATERIALS OR COMPACTION ARE BELOW THE SPECIFIED REQUIREMENTS, THE CONTRACTOR SHALL CORRECT THE DEFICIENCY AND RE-TEST TO OBTAIN THE SPECIFIED PARAMETERS AT NO ADDITIONAL EXPENSE TO THE OWNER.</div><div>24. IF THERE IS ANY AVAILABLE PRECAUTIONS TO CONTROL DUST, THE CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR AN ALTERNATIVE METHOD, AS APPROVED BY THE OWNER AND CONSULTANT, AT THE SOLE EXPENSE OF THE CONTRACTOR.</div><div>25. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PERFORMING ALL CONSTRUCTION LAYOUTS FROM THE SITE LAYOUT CONTROL POINTS, AND FROM THE DIMENSIONS AND CENTER LINES SHOWN. THE CONTRACTOR MUST NOTIFY THE OWNER AND CONSULTANT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.</div><div>26. CONTRACTOR SHALL DISINFECT ALL PIPING IN ACCORDANCE WITH PROJECT SPECIFICATION. ALL TEMPORARY SHUTDOWNS, CONNECTIONS, FITTINGS, AND PIPE LINES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT.</div><div>27. OTHER CONTRACTORS MAY BE WORKING ON THE SITE IN CONJUNCTION WITH OTHER CONCURRENT CONTRACTS. CONTRACTOR SHALL COORDINATE ACTIVITIES WITH OTHER CONTRACTORS ONSITE, THE OWNER, AND THE OWNER'S REPRESENTATIVE.</div><div>28. IF EXISTING VALVES, PIPELINES AND STRUCTURES LEAK WHEN VALVES ARE IN THE CLOSED POSITION, CONTRACTOR SHALL PROVIDE MEANS AND EQUIPMENT NECESSARY TO CONTROL WATER DURING CONSTRUCTION.</div><div>29. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.</div><div>30. UNLESS DETAILED, SPECIFIED, OR INDICATED OTHERWISE, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL DETAILS AND THESE GENERAL NOTES. TYPICAL DETAILS ARE MEANT TO APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS ON DRAWINGS WHERE THEY OCCUR.</div><div>31. ALL NUTS AND BOLTS USED MUST HAVE ANTI-SEIZE COMPOUND APPLIED.</div><div>32. ISOLATION KITS ARE TO BE INSTALLED BETWEEN ALL DISSIMILAR METALS. THE ISOLATIONS KITS SHALL INCLUDE ALL FULL-FACE ISOLATION GASKET, ISOLATION SLEEVES AND ISOLATION WASHERS.</div><div>33. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN ALL REQUIRED STORM WATER PERMITS, FEES, AND APPROVALS. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PERMITS REQUIRED FOR CONSTRUCTION IN DRAINAGE EASEMENTS, RIGHT-OF-WAYS, AND FLOODPLAINS. (N.S.P.I.).</div></div><div><div>EXCAVATION AND BACKFILL</div><div><div>34. CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT</div></div></div></div>	
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ENGINEER: RH
DESIGNER: AT
SURVEYOR:
DRAWN BY: MR
JOB NO.: 18-119
BOOK NO.:
SHEET:

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EXPIRATION DATE: 09/30/2019
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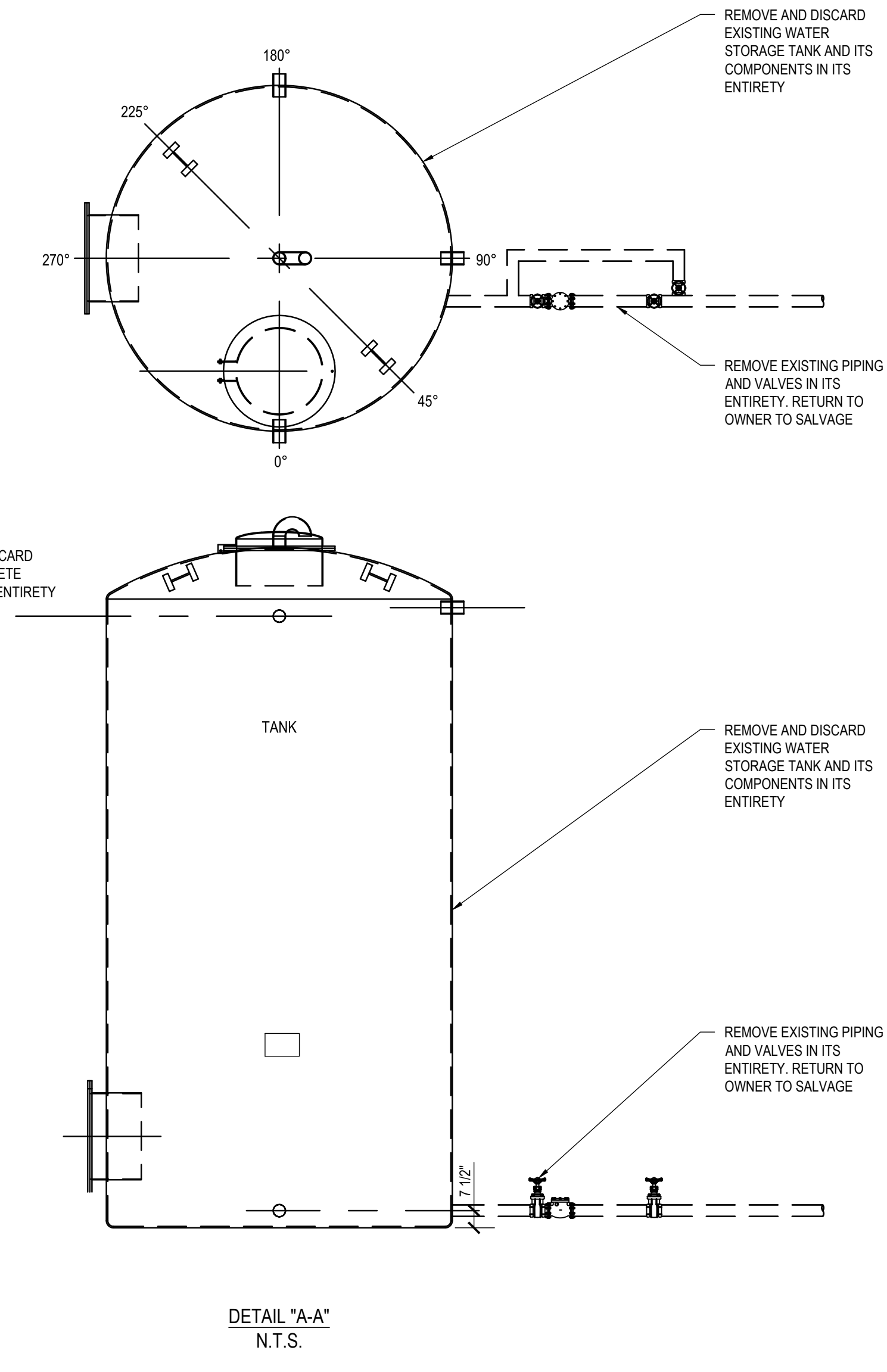
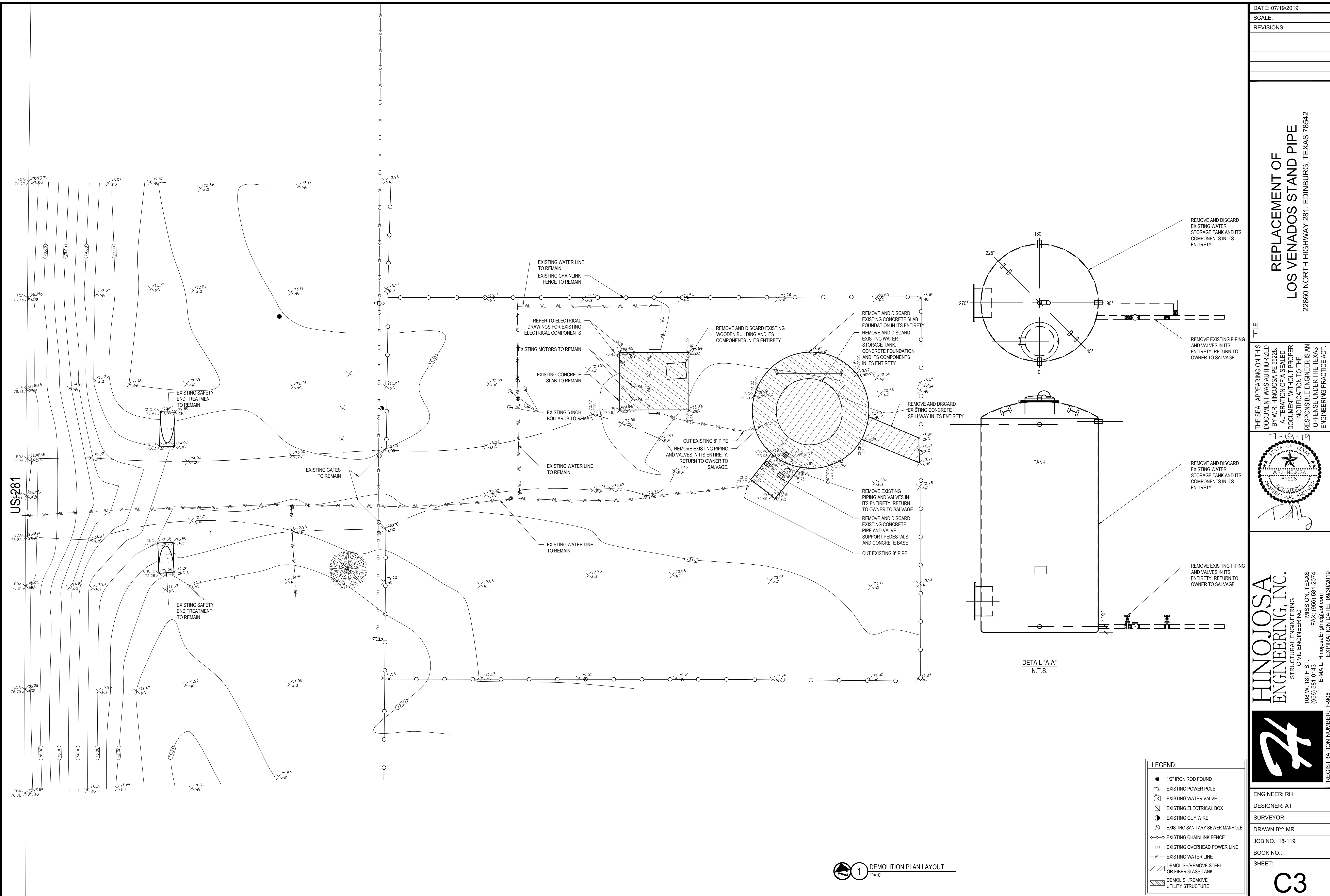


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TITLE:

REPLACEMENT OF LOS VENADOS STAND PIPE 22860 NORTH HIGHWAY 281, EDINBURG, TEXAS 78542

DATE: 07/19/2019
SCALE:
REVISIONS:



LEGEND:	
	1/2" IRON ROD FOUND
	EXISTING POWER POLE
	EXISTING WATER VALVE
	EXISTING ELECTRICAL BOX
	EXISTING GUY WIRE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING CHAINLINK FENCE
	EXISTING OVERHEAD POWER LINE
	EXISTING WATER LINE
	DEMOLISH/REMOVE STEEL OR FIBERGLASS TANK
	DEMOLISH/REMOVE UTILITY STRUCTURE

1 DEMOLITION PLAN LAYOUT
1"=10'

DATE: 07/19/2019

SCALE:

REVISIONS:

REPLACEMENT OF
LOS VENADOS STAND PIPE
22860 NORTH HIGHWAY 281, EDINBURG, TEXAS 78542

TITLE:

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EXPIRATION DATE: 09/30/2019
REGISTRATION NUMBER: F-908

ENGINEER: RH

DESIGNER: AT

SURVEYOR:

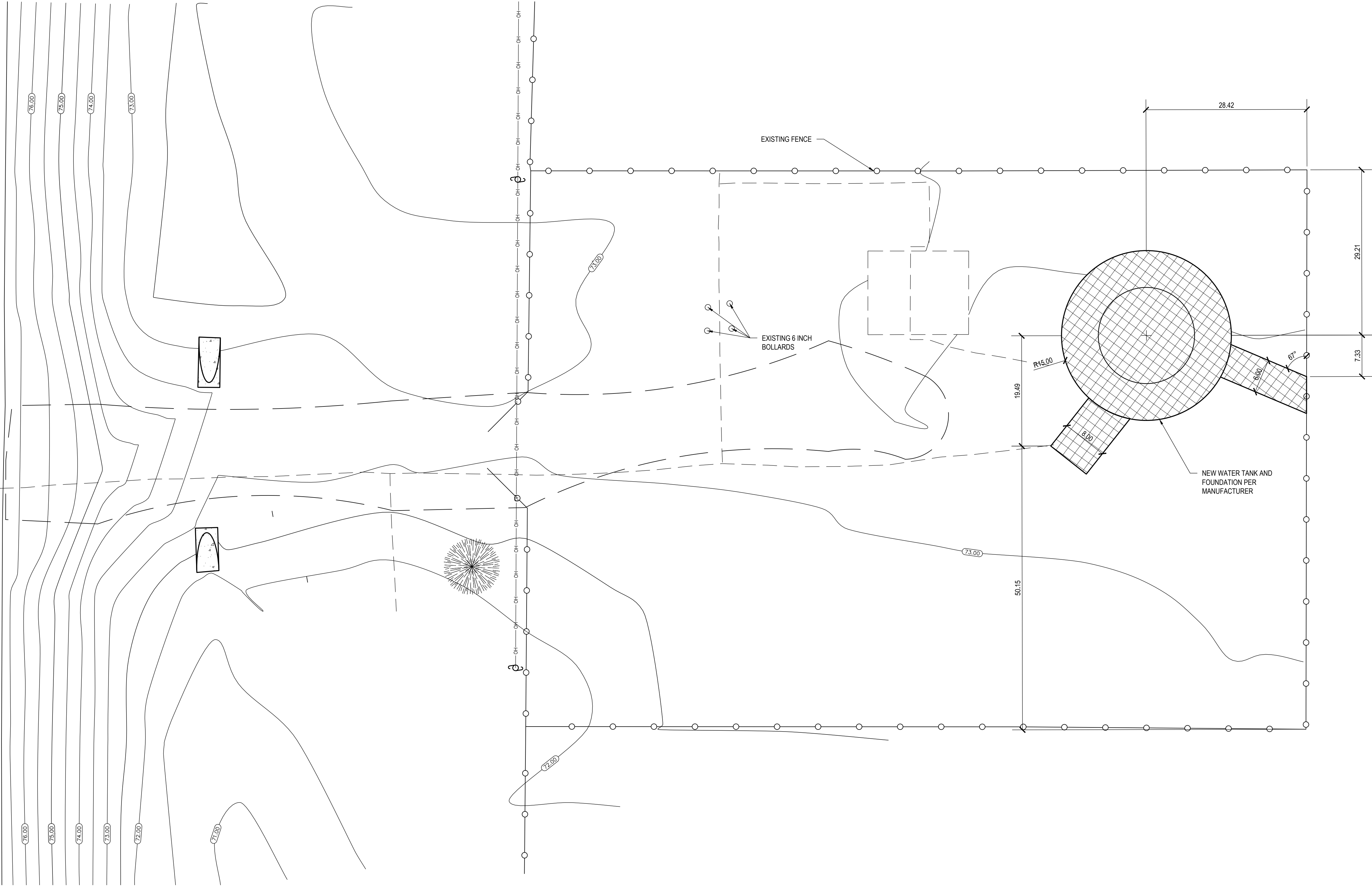
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JOB NO.: 18-119

BOOK NO.:

SHEET:
C3

US-281



1 NEW SITE PLAN LAYOUT
1"=10'

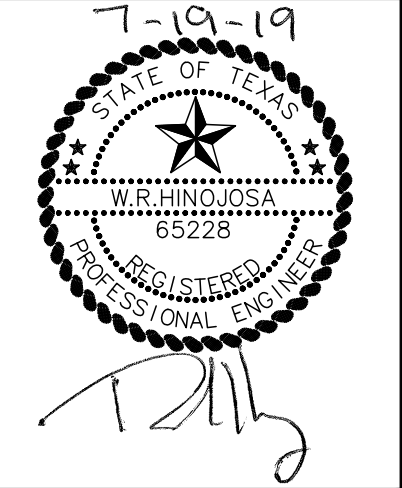
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●	1/2" IRON ROD FOUND
○	EXISTING POWER POLE
⊗	EXISTING WATER VALVE
⊠	EXISTING ELECTRICAL BOX
—●—	EXISTING GUY WIRE
⊙	EXISTING SANITARY SEWER MANHOLE
○—○	EXISTING CHAINLINK FENCE
—OH—	EXISTING OVERHEAD POWER LINE
—WL—	EXISTING WATER LINE
▨	EXISTING CONCRETE
▩	NEW CONCRETE

ENGINEER: RH
DESIGNER: AT
SURVEYOR:
DRAWN BY: MR
JOB NO.: 18-119
BOOK NO.:
SHEET:

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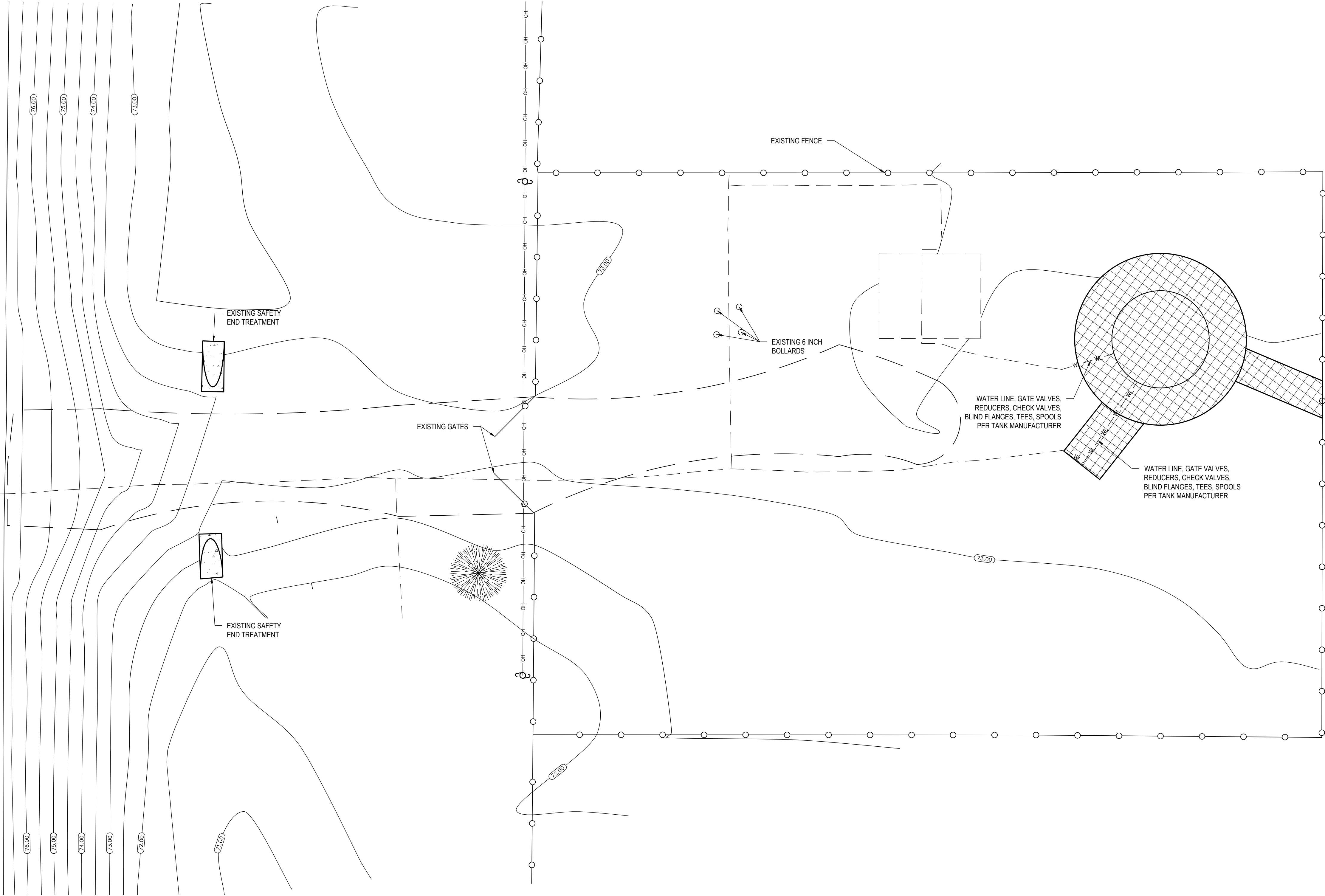


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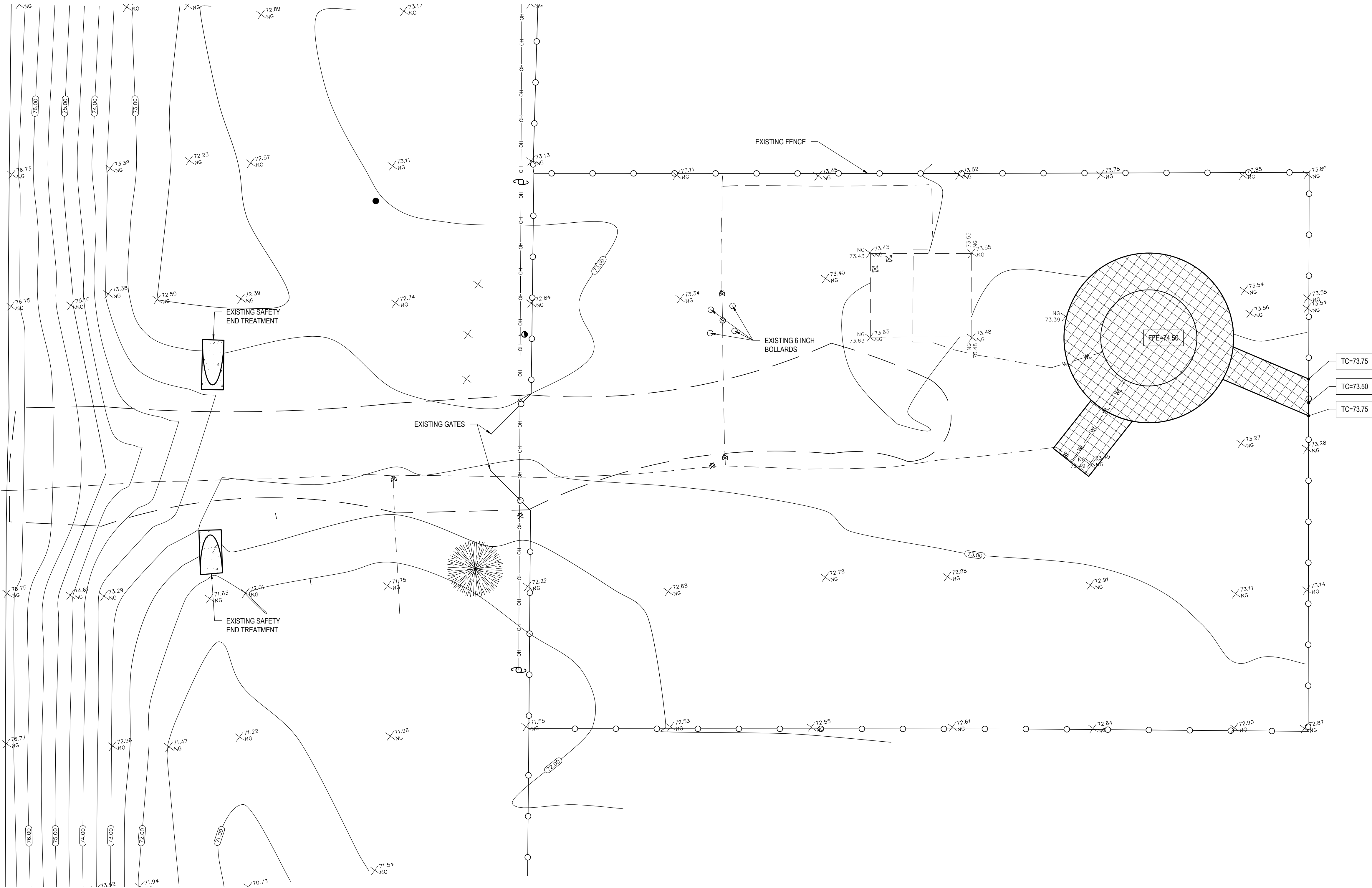
1 NEW UTILITIES PLAN LAYOUT

LEGEND:	
●	1/2" IRON ROD FOUND
⊙	EXISTING POWER POLE
⊗	EXISTING WATER VALVE
⊠	EXISTING ELECTRICAL BOX
—●—	EXISTING GUY WIRE
⊙	EXISTING SANITARY SEWER MANHOLE
—○—	EXISTING CHAINLINK FENCE
—OH—	EXISTING OVERHEAD POWER LINE
—WL—	NEW WATER LINE
▨	EXISTING CONCRETE
▩	NEW CONCRETE

DATE: 07/19/2019	
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HINOJOSA ENGINEERING, INC. STRUCTURAL ENGINEERING 108 W. 18TH ST. (956) 581-0143 MISSION, TEXAS FAX: (956) 581-2074 E-MAIL: hinojosaengr@ed.com REGISTRATION NUMBER: F-908 EXPIRATION DATE: 09/30/2019	
ENGINEER: RH	DESIGNER: AT
SURVEYOR:	DRAWN BY: MR
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	EXISTING CONCRETE
	NEW CONCRETE

DATE: 07/19/2019

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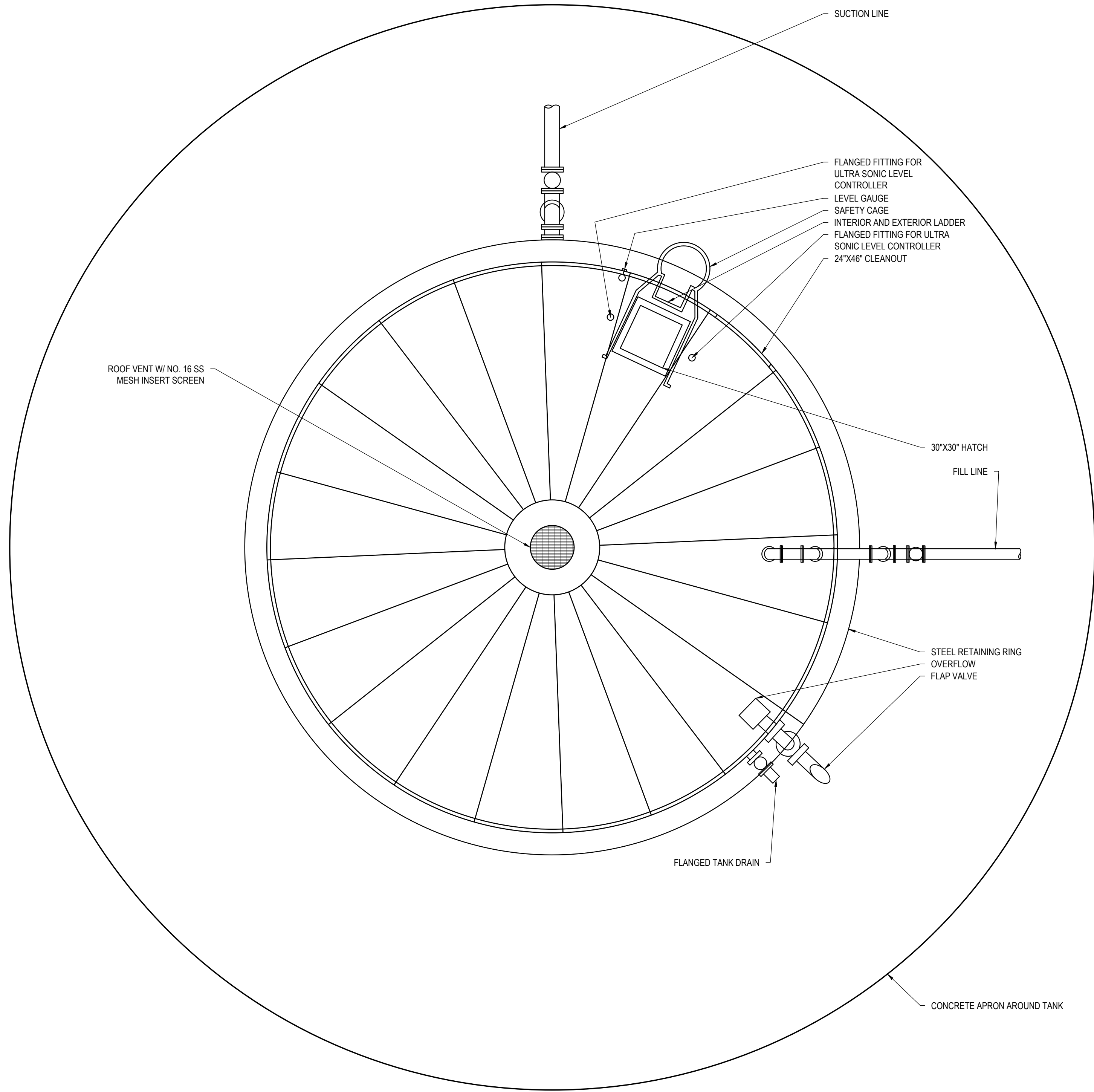
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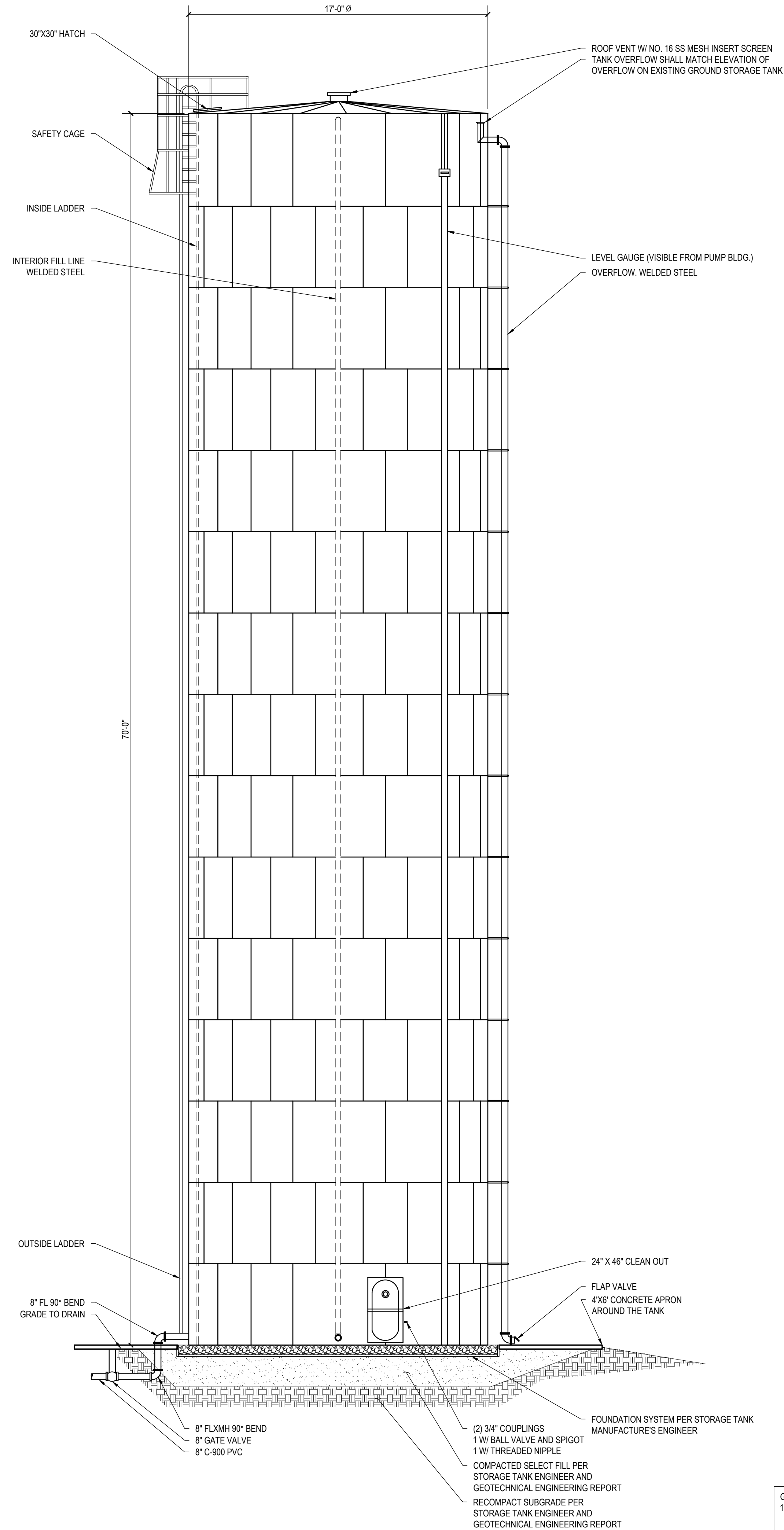
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- GENERAL NOTES:
1. ALL TANK APPURTENANCES INCLUDING FILL LINE, SUCTION LINE, LEVEL GAUGE, LADDER, OVERFLOW AND DRAIN ORIENTATION SHALL BE VERIFIED BY THE ENGINEER.
 2. ALL EXPOSED EXTERIOR PIPING SHALL BE INSULATED WITH PROPERLY SIZED PIPE INSULATION AND ALUMINUM SHEATHING. FURNISHED AND INSTALL ULTRA SONIC LEVEL CONTROLLER.
 - 3.

2 GROUND STORAGE TANK PLAN
NO TO SCALE



- GENERAL NOTES:
1. ELEVATION OF PROPOSED GROUND STORAGE TANK TOP OF STEEL RETAINING RING SHALL MATCH ELEVATION OF EXISTING GROUND STORAGE TANK TOP OF STEEL RETAINING RING.
 2. ULTRA SONIC LEVEL CONTROLLER SHALL BE FURNISHED AND INSTALLED.

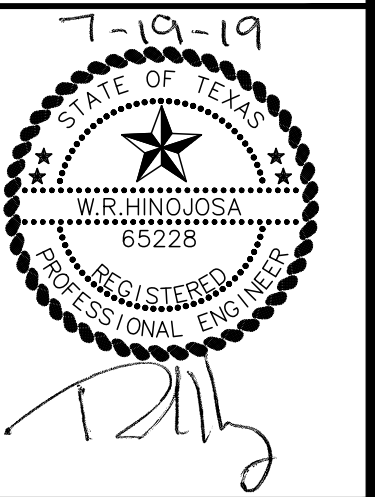
1 GROUND STORAGE TANK ELEVATION
NO TO SCALE

DATE: 07/19/2019
SCALE:
REVISIONS:

TITLE:

REPLACEMENT OF
LOS VENADOS STAND PIPE
22860 NORTH HIGHWAY 281, EDINBURG, TEXAS 78542

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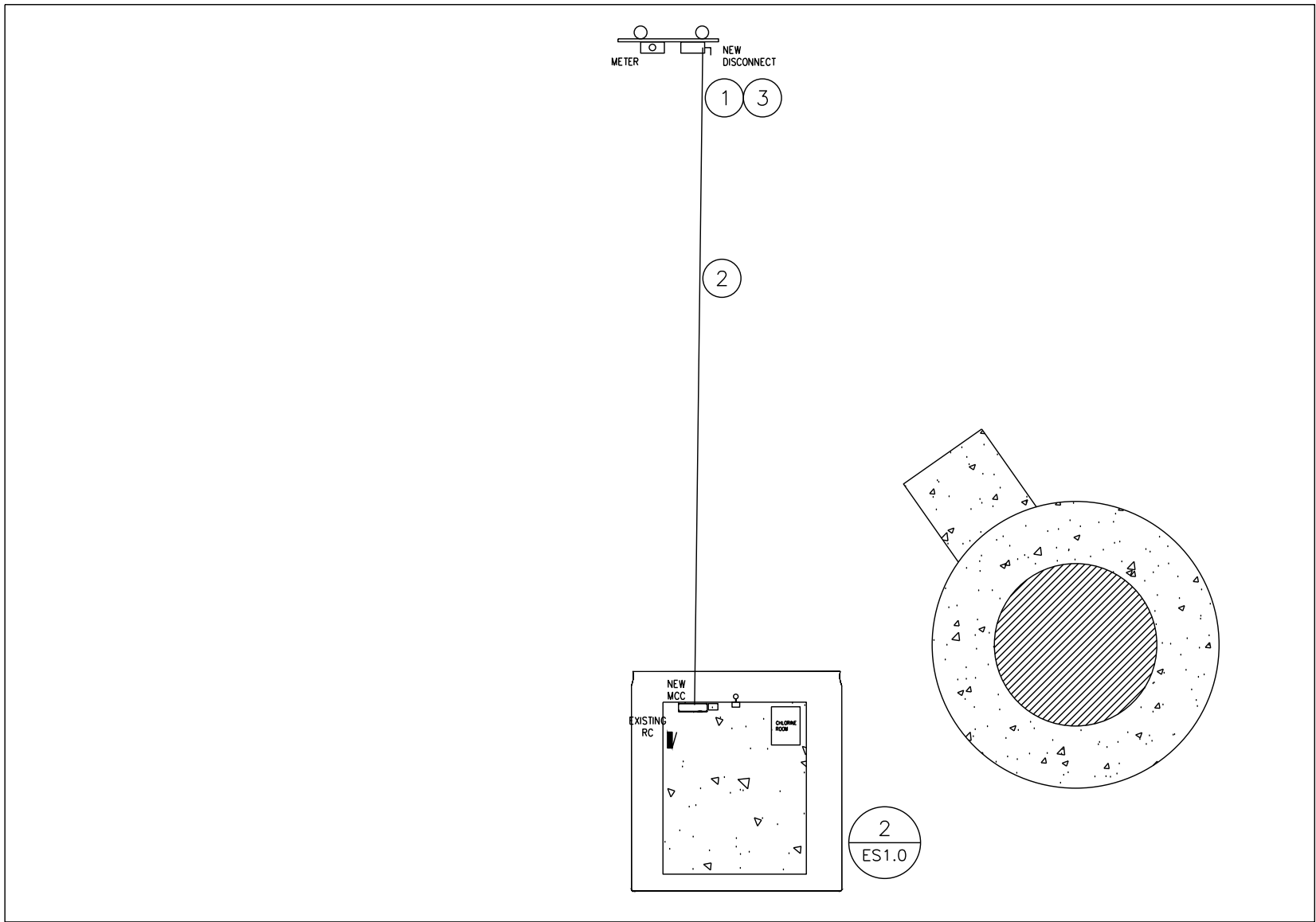


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EXPIRATION DATE: 08/30/2019
REGISTRATION NUMBER: F-908

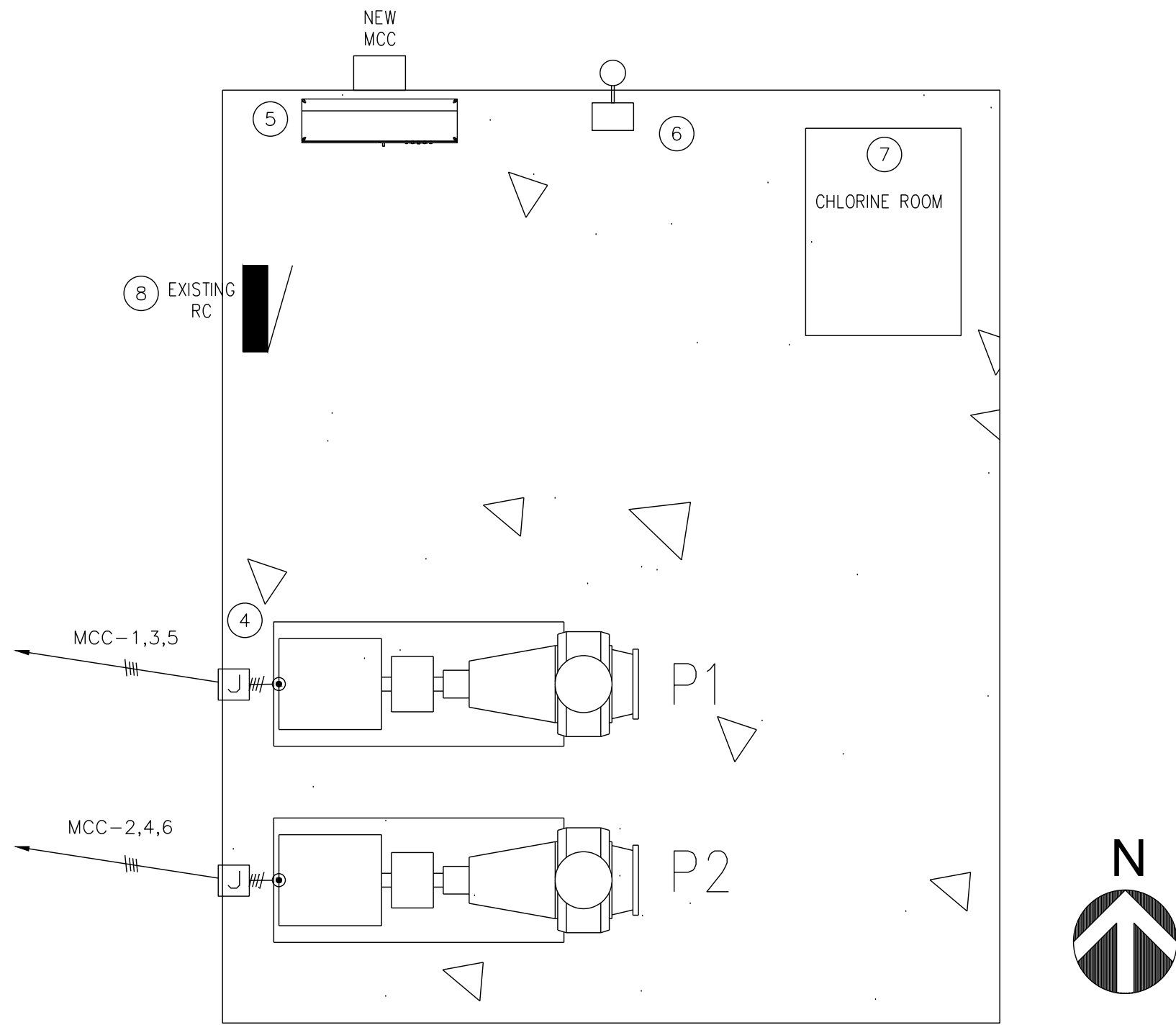


ENGINEER: RH
DESIGNER: AT
SURVEYOR:
DRAWN BY: MR
JOB NO.: 18-119
BOOK NO.:
SHEET:

S2



1 NEW ELECTRICAL SITE PLAN
1/16" = 1'-0"



2 ENLARGED NEW ELECTRICAL SITE PLAN
3/8" = 1'-0"


GENERAL ELECTRICAL NOTES:

- I. FURNISH AND INSTALL COMPLETE ELECTRICAL SYSTEM AS INDICATED ON PLANS. ELECTRICAL CONTRACTOR TO MAKE ALL FINAL CONNECTIONS TO ALL EQUIPMENT. MATERIAL SHALL BE AS FOLLOWS:
- A. CONDUIT: ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN CONDUIT COMPLYING WITH NATIONAL ELECTRICAL CODE. WHERE INSTALLED UNDERGROUND, IN POURED CONCRETE OR SUBJECT TO STRESS FROM COLLISION OR IMPACT, CONDUIT SHALL BE RIGID GALVANIZED STEEL. WHERE RIGID CONDUIT IS NOT REQUIRED, CONDUCTORS SHALL BE INSTALLED IN ELECTRIC METALLIC TUBING WITH ELECTRO-GALVANIZED OUTSIDE AND ENAMEL INSIDE.
- B. CONDUCTORS: ALL WIRE IN THE WORK SHALL BE INSULATED COPPER WIRE. EACH CONDUCTOR SHALL BE CONTINUOUS, WITHOUT WELD, SPLICE OR JOINT THROUGHOUT ITS LENGTH AND UNIFORM IN CROSS-SECTION. WIRE # 6 AND LARGER SHALL HAVE TYPE "THW" INSULATION. WIRE # 8 AND SMALLER SHALL HAVE DUAL RATED TYPE "THHN/THWN" INSULATION. MINIMUM WIRE SIZE, EXCEPT FOR CONTROL WIRING, SHALL BE # 12 AWG.
- C. OUTLETS: WALL RECEPTACLES SHALL BE DUPLEX HUBBELL # 5252 OR AN APPROVED SUBSTITUTION, AND SHALL BE MOUNTED AT 12" A.F.F. UNLESS OTHERWISE NOTED.
- D. TOGGLE SWITCHES AND SWITCH PLATES: FURNISH AND INSTALL TOGGLE SWITCHES WHERE INDICATED ON PLANS, AS FOLLOWS:
- 20 AMP/1 POLE, 120/277 VOLT: HUBBELL # 1221.
 - WHERE MORE THAN ONE SWITCH OCCURS AT THE SAME LOCATION, THEY SHALL BE SET IN GANGS WITH ONE COVERPLATE, INSTALLED IN BOXES IN UNIFORM POSITION, SET TO OPEN AND CLOSE CIRCUITS BY MOVING IN THE SAME DIRECTION THROUGHOUT THE JOB.
 - PROVIDE WEATHER PROOF BOX AND COVER FOR SWITCHES
- E. LIGHTING PANELBOARDS:
- 120/208V, 3Ø-4W: AND 277/480V: FURNISH AND INSTALL AS SHOWN ON PLANS, LIGHTING PANELBOARDS BY SQUARE D, TYPE "NCOB", WITH SINGLE POLE 120V. SQUARE D "QO" TYPE BREAKERS. TWO AND THREE POLE SHALL BE COMMON TRIP.
- F. SAFETY SWITCHES AND FUSES: SAFETY SWITCHES SHALL BE FURNISHED AND INSTALLED AT ALL LOCATIONS INDICATED ON PLANS OR REQUIRED BY THE NATIONAL ELECTRICAL CODE. ALL SWITCHES SHALL BE HEAVY DUTY TYPE AND SHALL HAVE CLIPS FOR REJECTION TYPE FUSES AND SHALL BE BY SQUARE D, G.E., OR AN APPROVED SUBSTITUTION, FOR THE VOLTAGE AND LOAD INVOLVED. PROVIDE A COMPLETE SET OF FUSES IN ALL FUSED SWITCHES. FUSES SHALL BE CLASS RK-1 FUSES (BUSSMAN LOW PEAK OR HI-CAP FOR 601 AMPS & ABOVE) BY BUSSMAN, NO SUBSTITUTIONS.
- G. CONTRACTOR SHALL PROVIDE TYPEWRITTEN PANELBOARD DIRECTORY INSIDE OF PANELBOARD DOOR.
- H. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH BUILDING MANAGEMENT FOR ALL CONSTRUCTION STANDARDS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO STANDARD LIGHT FIXTURES, SWITCHES, RECEPTACLES, COVERPLATES, AND WIRING METHODS. AVAILABLE QUANTITIES AND TENANT ALLOWANCES MUST ALSO BE VERIFIED WITH BUILDING MANAGEMENT.
- I. THE SCOPE OF THE ELECTRICAL WORK INCLUDES FURNISHING AND INSTALLING ALL ELECTRICAL WORK FOR A COMPLETE INSTALLATION.

ELECTRICAL KEYED NOTES:

- THE CONTRACTOR TO COORDINATE POWER SHUTDOWN WITH AEP AND THE CITY.
- CONTRACTOR SHALL RUN NEW CONDUIT AND WIRE FROM EXISTING METER TO NEW PANEL LOCATIONS.
- PROVIDE NEW 100AF/3P/N3R DISCONNECT.
- CONTRACTOR SHALL PROVIDE NEW PUMPS AS PER PUMP SCHEDULE.
- PROVIDE NEW MOTOR CONTROL CENTER. REFER TO SHEET 4.0; MOUNT ON UNISTRUT AND ANCHOR TO NEW CONCRETE SLAB. CONTRACTOR TO COORDINATE WITH PANEL MANUFACTURER TO ENSURE SCADA COMMUNICATION INCLUDES MOPS FOR SCADA, PUMP RUN STATUS, SYSTEM PRESSURE, TANK WATER LEVEL, VFD FAULT, AND OTHER POINTS REQUIRED BY THE CITY. COORDINATE WITH SCADA INSTALLER MUNICIPAL PUMP & CONTROLS.
- CONTRACTOR TO DISCONNECT AND RECONNECT EXISTING CHLORINE ROOM AND EQUIPMENT TO NEW PUMPS SYSTEM.
- CONTRACTOR TO COORDINATE WITH MUNICIPAL PUMPS & CONTROLS TO INTEGRATE NEW PANEL TO EXISTING RTU AND PROVIDE THE NECESSARY REPAIRS FOR A COMPLETE WORKING SYSTEM. COORDINATE INTEGRATION AND CONNECTION WITH OWNER.

PUMP SCHEDULE		
MARK	P1	P2
MANUFACTURER	GRUNDFOS	GRUNDFOS
MODEL NUMBER	4095-7 LF	4095-7 LF
FLOW GPM	700	700
HEAD (FT. H2O)	70	70
APPROX. PUMP EFF. (%)	85	85
APPROX. IMPELLER DIA. (INCHES)	9.32	9.32
MOTOR RPM	1800	1800
HORSEPOWER	20	20
VOLTS/PHASE/HERTZ	230/460/3/60	230/460/3/60
NOTES		
NOTES:		
1.		



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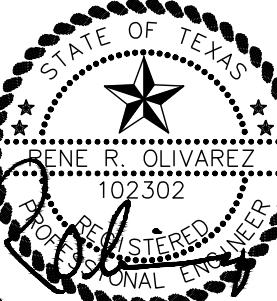
ROE Project Number	18012
R.O.	-- -- --

DATE: 07/22/2019
SCALE:
REVISIONS:

TITLE:

LOS VENADOS
BOOSTER PUMP STATION
REPLACEMENT
22860 NORTH HIGHWAY 281, EDINBURG, TEXAS 78542

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY
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TBPE REGISTRATION NO. 12179



7/22/19

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EXPIRATION DATE: 09/30/2019



ENGINEER: RO
DESIGNER:
SURVEYOR:
DRAWN BY: RO
JOB NO.: 18-119
BOOK NO.:
SHEET: ES2.0
NEW ELECTRICAL SITE PLAN

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ELECTRICAL GENERAL NOTES

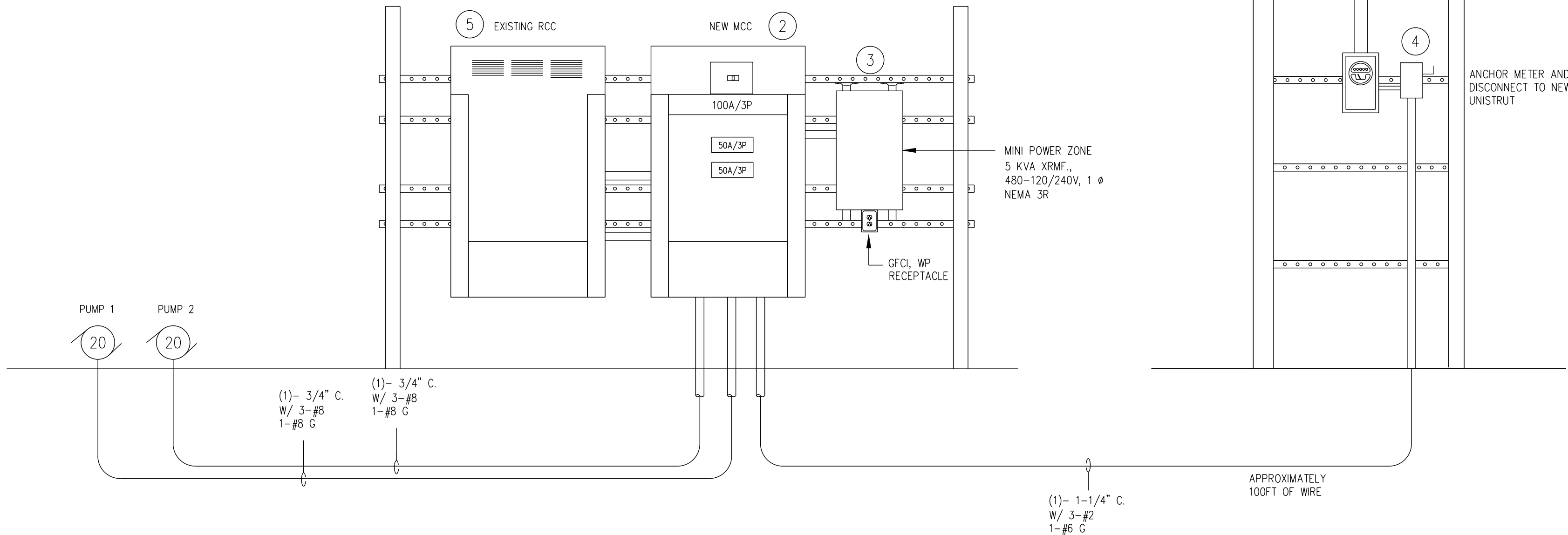
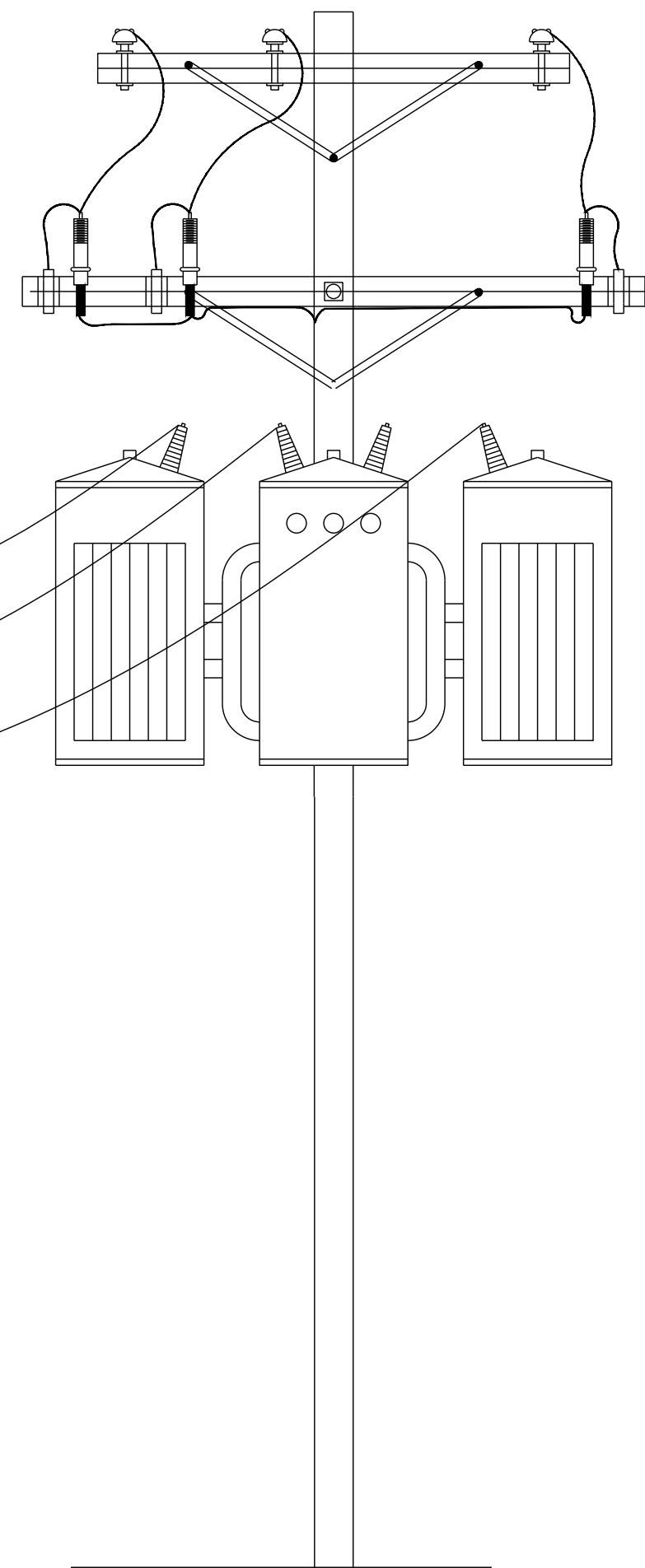
- A. COORDINATE ALL UNDERGROUND CONDUITS WITH EXISTING CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL EXISTING CONDITIONS AND UTILITIES.
- B. ALL EQUIPMENT CONNECTION POINTS ARE DIAGRAMATIC IN NATURE. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH EQUIPMENT INSTALLER FOR EXACT POINT OF CONNECTION. EXTEND FEEDERS IN CONDUIT AS REQUIRED.
- C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO VISIT THE SITE OF THE PROPOSED CONSTRUCTION IN ORDER TO FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTION ATTENDING THE EXECUTION OF THE WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED THIS CONTRACTOR FOR WORK OR ITEMS OMITTED FROM HIS ORIGINAL PROPOSAL DUE TO HIS FAILURE TO INFORM HIMSELF REGARDING SUCH MATTERS AFFECTING THE PERFORMANCE OF THE WORK IN THIS CONTRACT OR NECESSARY FOR THE INSTALLATION AND COMPLETION OF THE WORK INCLUDED HEREIN.

ELECTRICAL SERVICE SCOPE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY OF SERVICE TO THE NEW PUMP YARD. COORDINATE ALL REQUIREMENTS AND COSTS AND LABOR W/ LOCAL UTILITY. PRIOR TO BID, ALL COSTS ASSOCIATED W/ THE DELIVERY OF ELECTRICAL SERVICE SHALL BE INCLUDED AS A PART OF THIS CONTRACT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.


ELECTRICAL KEYED NOTES:

- 1 CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR ADDITIONAL REQUIREMENTS TO INCLUDE BUT NOT LIMITED TO CT AND METER.
- 2 REFER TO DETAIL # 1 IN SHEET E4.0 FOR RACK DETAIL. REFER TO ONE-LINE IN SHEET E4.1 FOR CONTROL PANEL CONNECTIONS AND SCHEMATICS ON SHEET E4.2.
- 3 PROVIDE MINI POWER ZONE 5 KVA XRMF., 480-120/240V, 1 ϕ , NEMA 3R, 10 SPACES ON BACKSIDE OF PANEL.
- 4 PROVIDE NEW 100AF/3P/N3 DISCONNECT.
- 5 EXISTING TO BE RELOCATED. COORDINATE INTEGRATION AND CONNECTIONS OF EQUIPMENT WITH OWNER.



1 ELECTRICAL RISER DIAGRAM
N.T.S.

ELECTRICAL LOAD ANALYSIS			
480 / 277 , 3 -PHASE, 4 -WIRE NEW MCC			
DESCRIPTION	NEC	KVA	
LIGHTING:			
INTERIOR =	0 VA X 125%	210.20(a)	0.0
EXTERIOR =	60 VA X 125%	210.20(a)	0.1
POWER:			
RECEPTACLES =	360 VA	220.44	0.4
20 HP, PUMP1	22,437 VA	430.250	22.4
20HP, PUMP2	22,437 VA	430.250	22.4
MISC.	4,320 VA		4.3
25% LARGEST MOTOR =	5609.25 VA	430.24	5.6
MCC will not have a neutral.			0.0
			0.0
			0.0
	TOTAL =		55.2
	TOTAL AMPS:		66.4
	SERVICE SIZE:		100.0
	SPARE AMPACITY:		33.6



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TBPE Firm Registration No. 12179

ROE Project Number	18012
R.O.	-- -- --

DATE: 07/22/2019

SCALE:


REVISIONS:

TITLE:

**LOS VENADOS
BOOSTER PUMP STATION
REPLACEMENT**

22860 NORTH HIGHWAY 281, EDINBURG, TEXAS 78542

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY
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7/22/19

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DESIGNER:

SURVEYOR:

DRAWN BY: RO

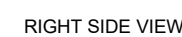
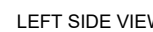
JOB NO.: 18-119

BOOK NO.:

SHEET: **E3.0**

ELECTRICAL RISER
& LOAD SCHEDULE

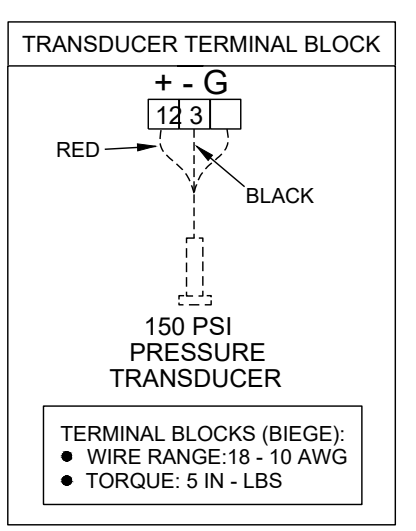
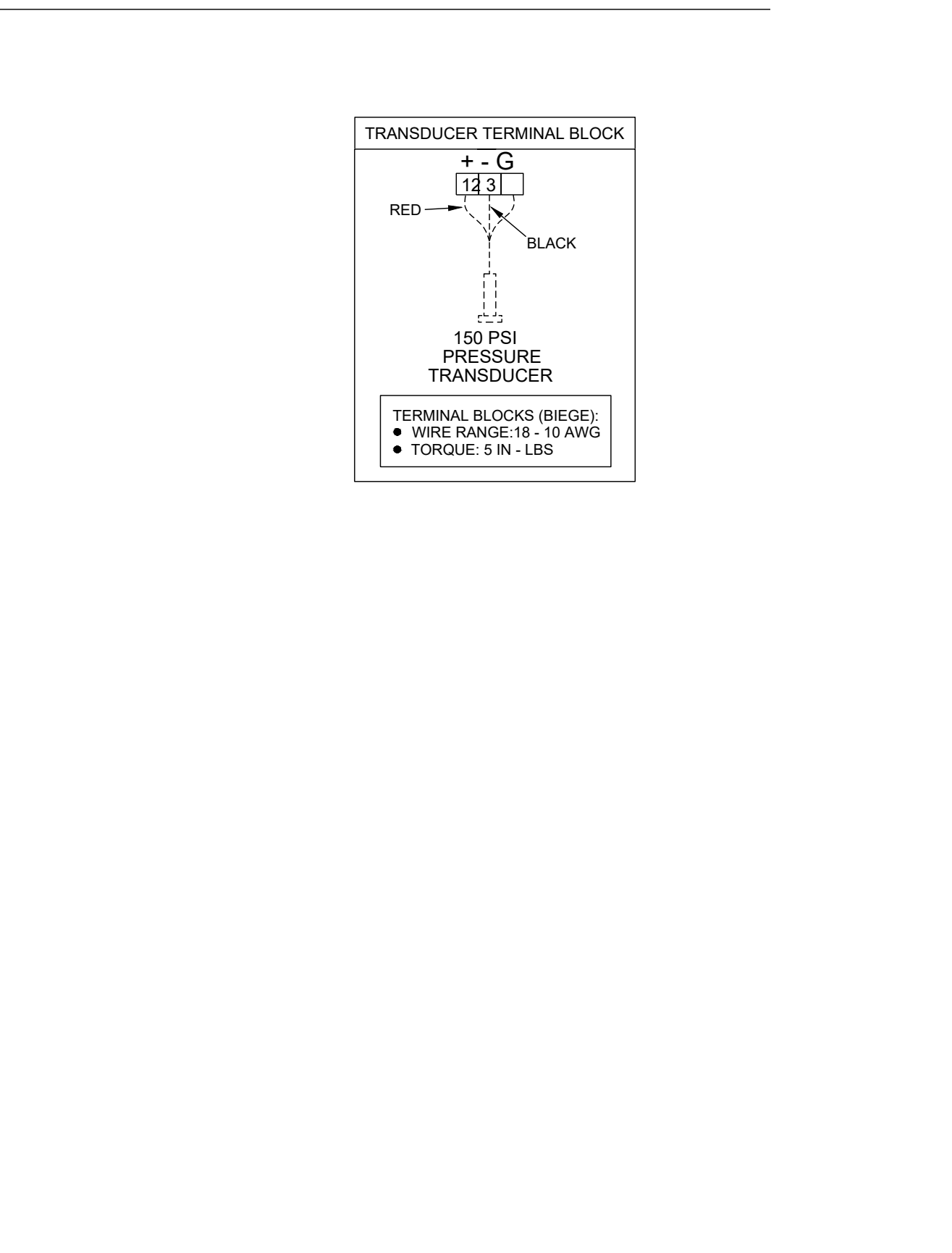
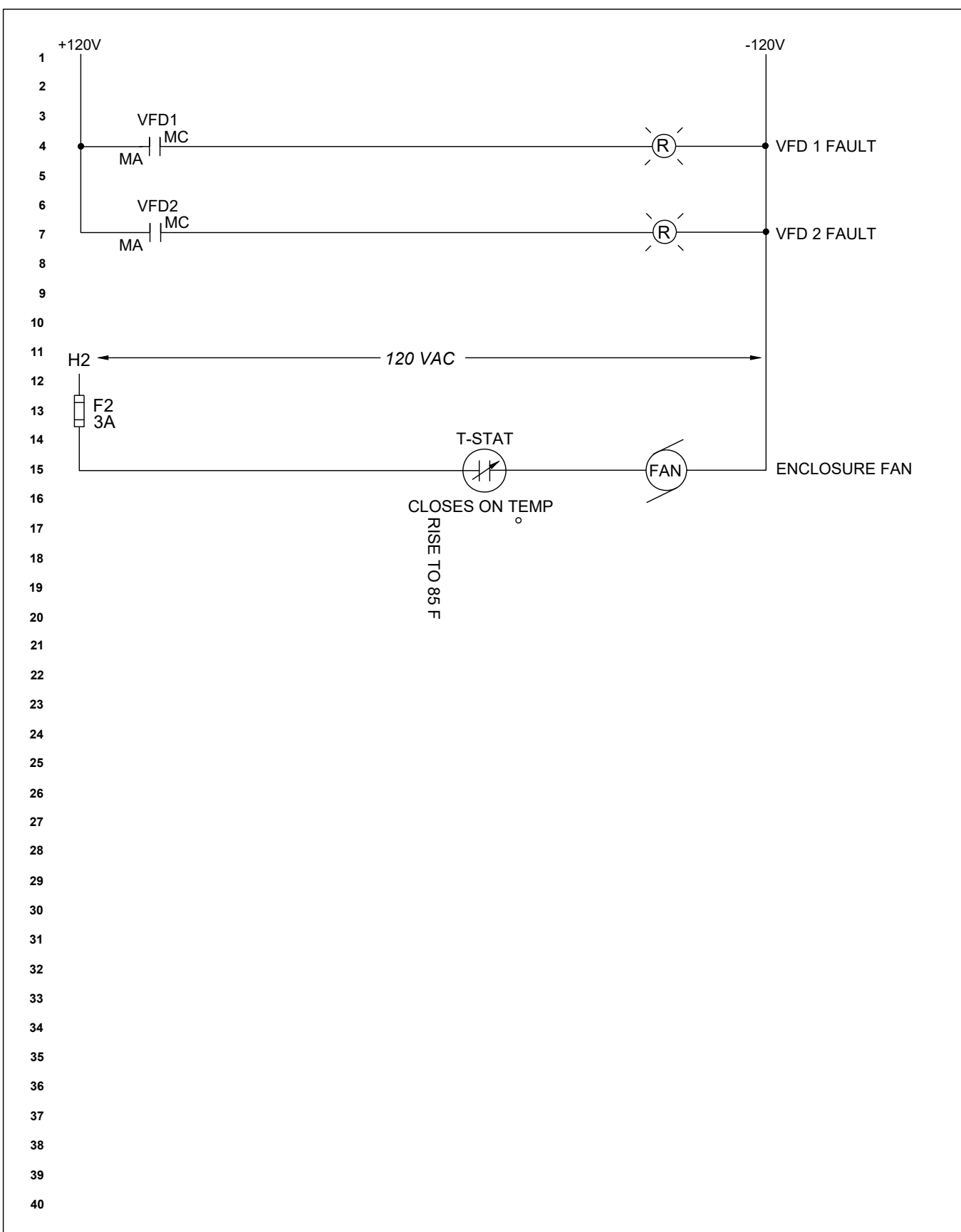
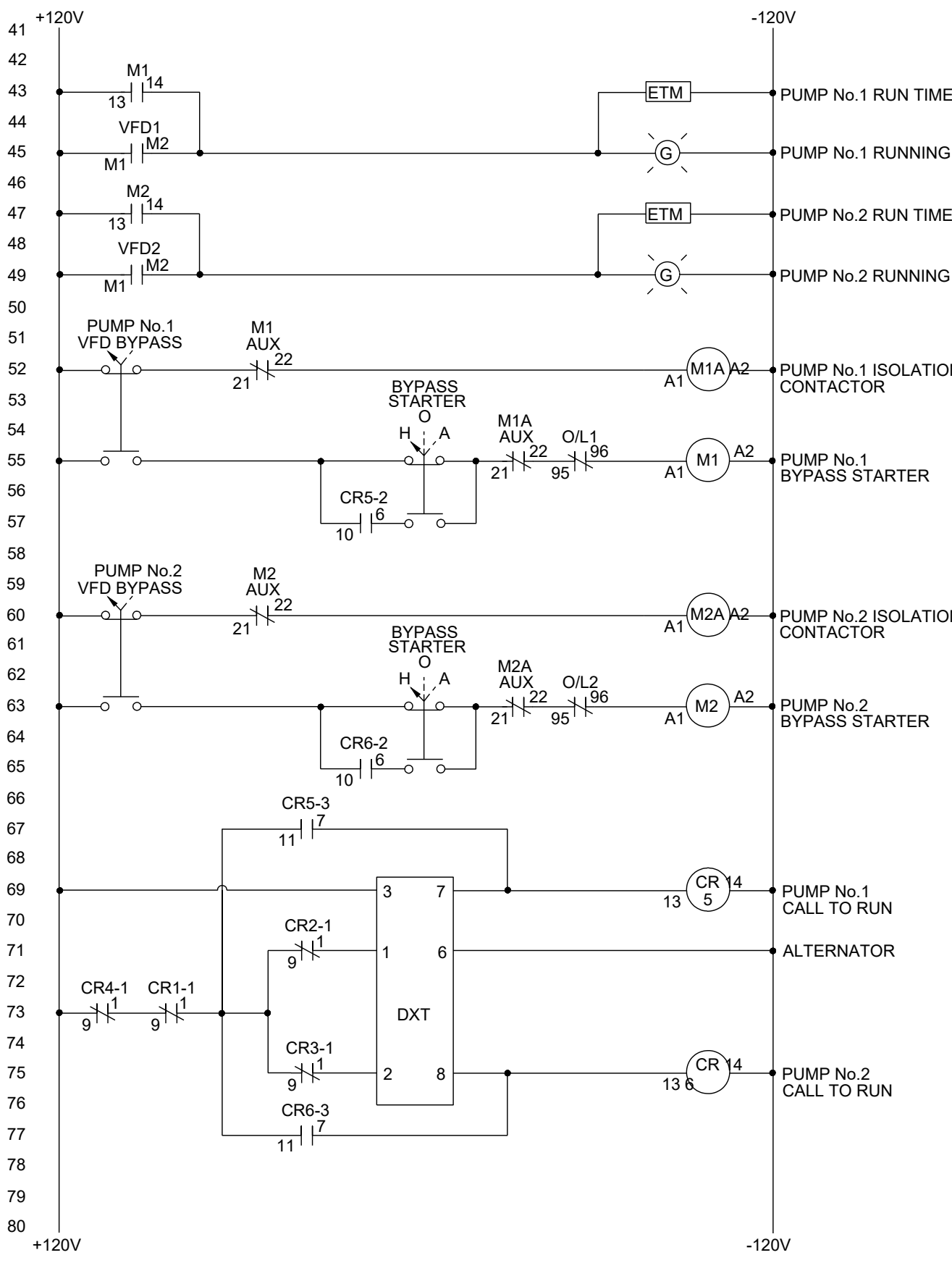
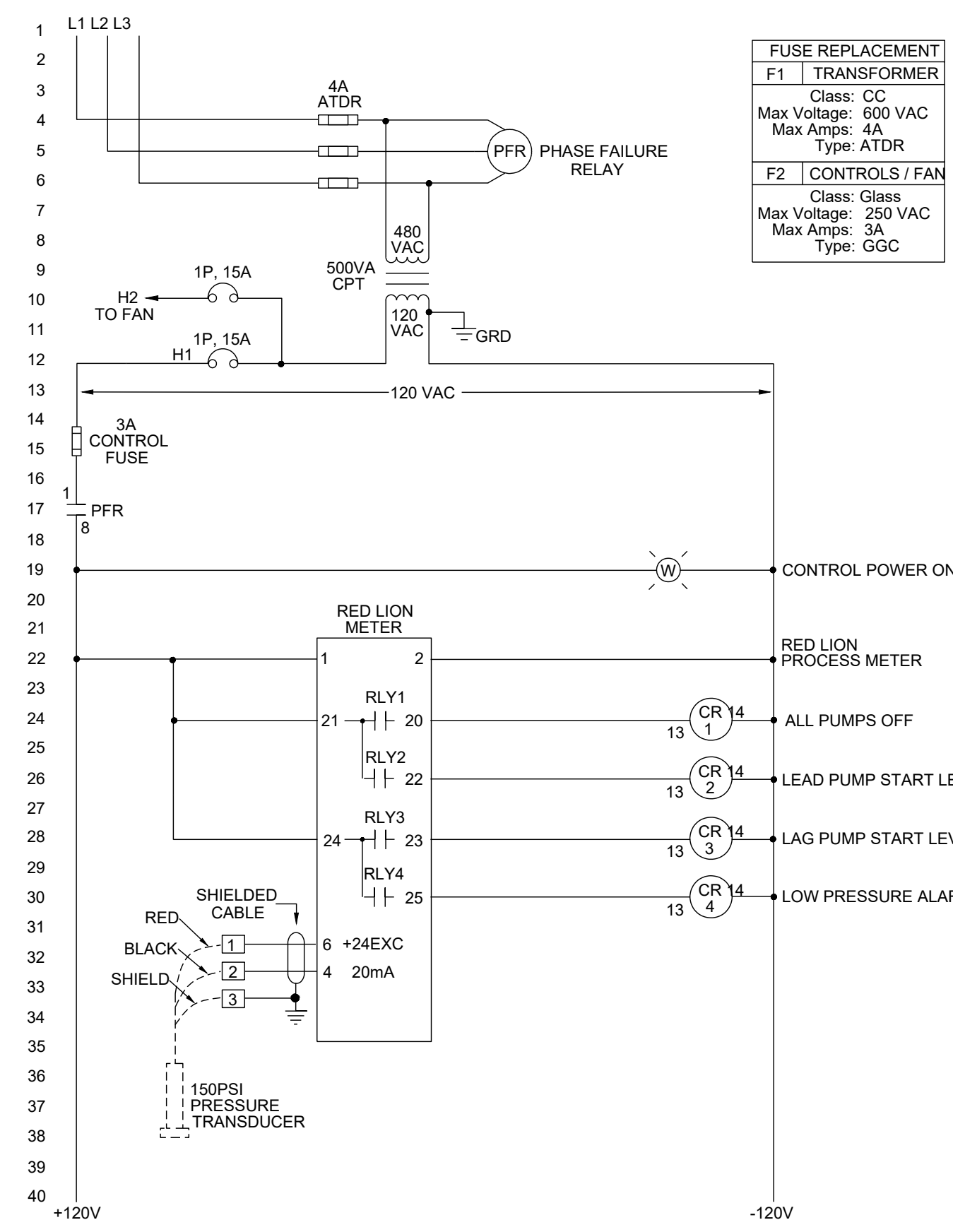
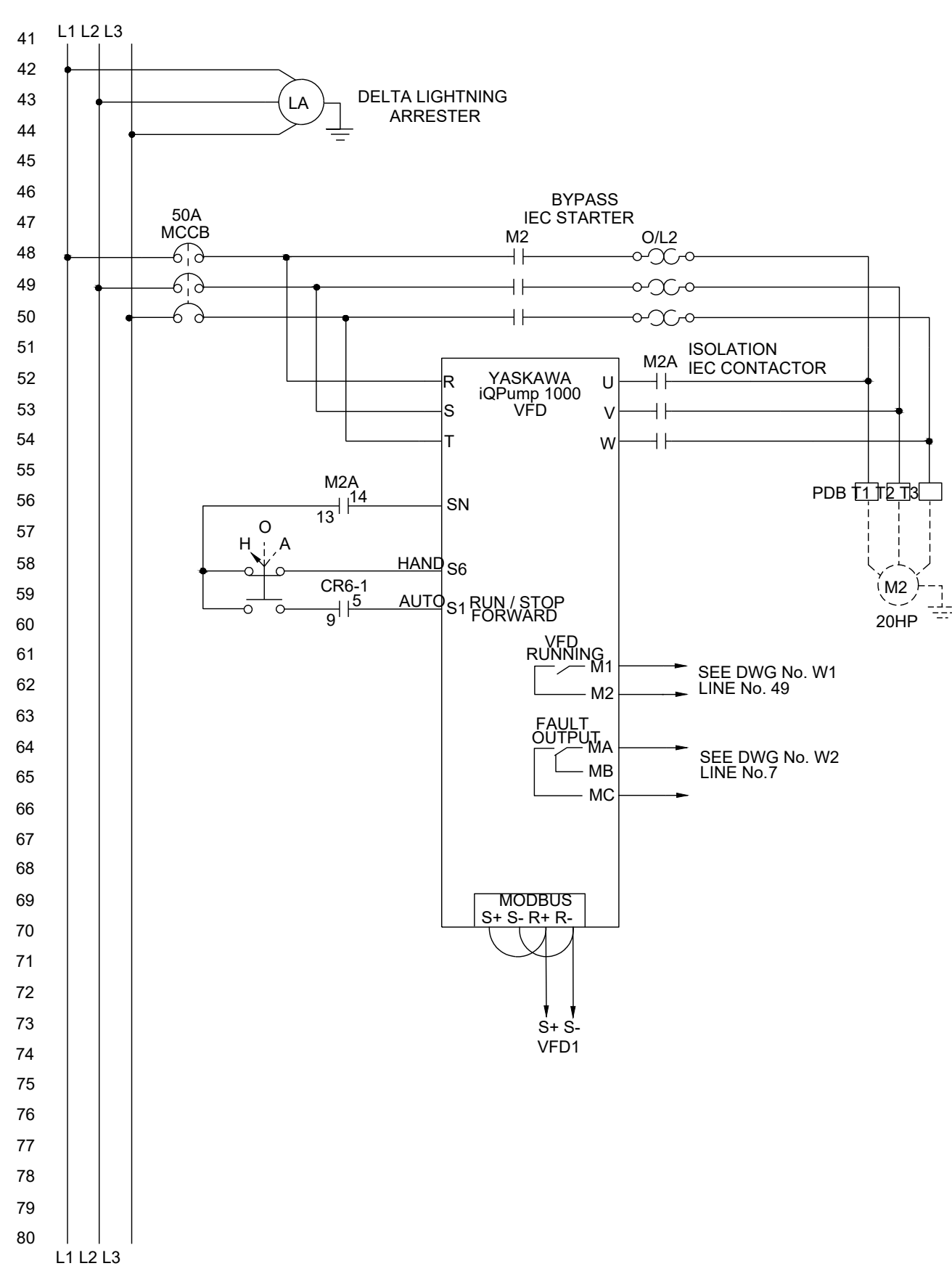
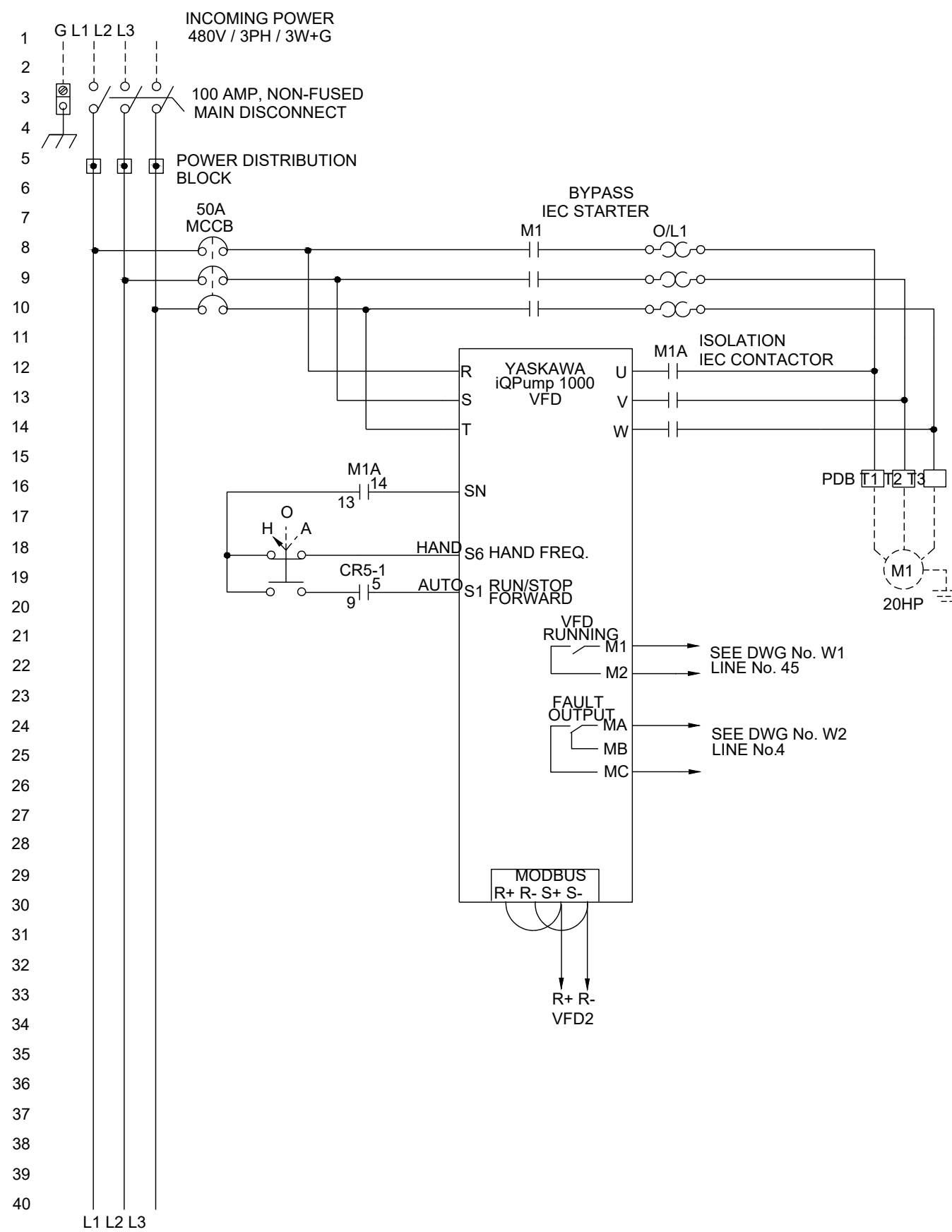
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TITLE:

ONE-LINE
PANEL

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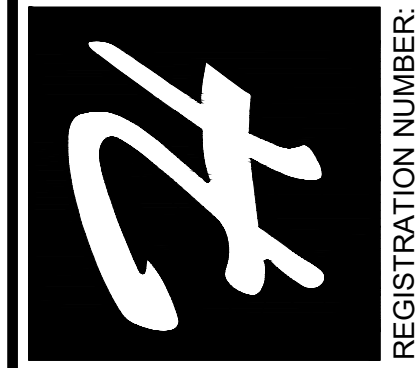


1 ELECTRICAL SCHEMATICS

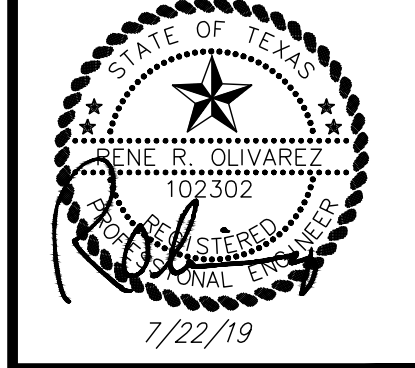
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BOOK NO.:
SHEET: E4.1
ELECTRICAL SCHEMATICS



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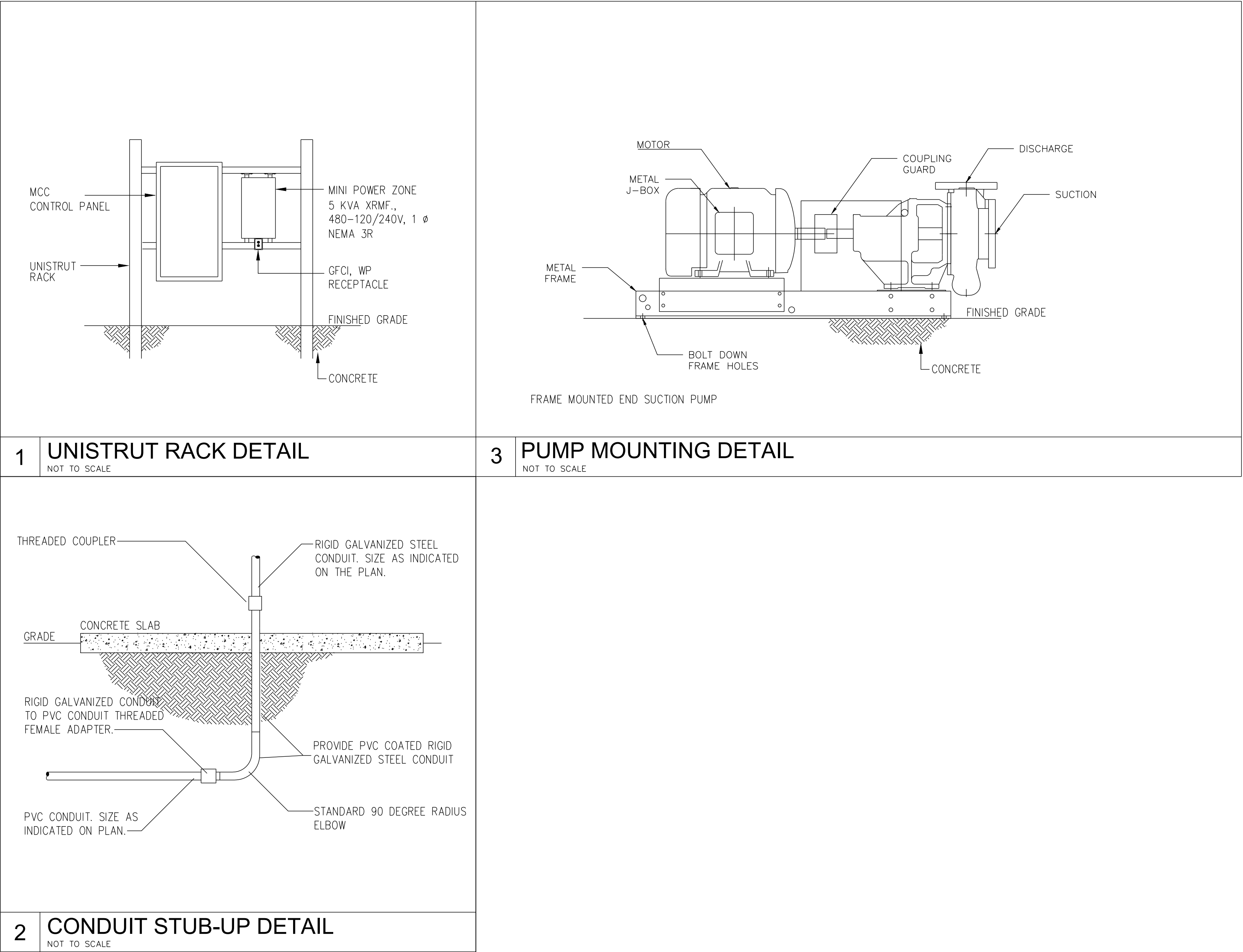
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TITLE:

LOS VENADOS BOOSTER PUMP STATION REPLACEMENT
22860 NORTH HIGHWAY 281, EDINBURG, TEXAS 78542

DATE: 07/22/2019
SCALE:
REVISIONS:

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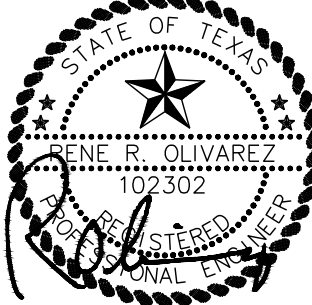
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7/22/19

TITLE:

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