WEST 13TH STREET, WEST 8TH STREET, AND EAST 13TH STREET LIFT STATION REHABILITATION PREPARED FOR ST. JOHN THE BAPTIST PARISH

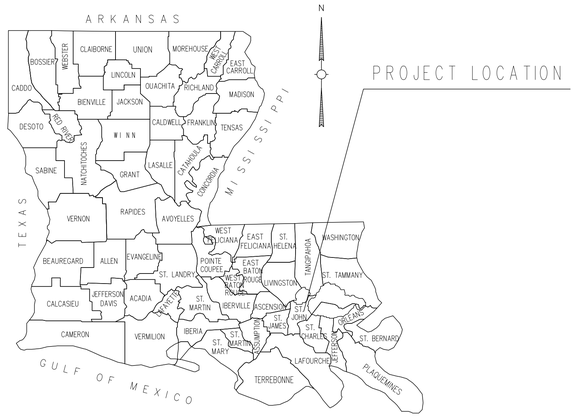
APRIL 2025

INDEX TO SHEETS

PROJECT LOCATIONS

LAYOUT MAP

SCALE: N.T.S.



VICINITY MAP

PROJECT LOCATIONS

JACLYN HOTARD
PARISH PRESIDENT

LENNIX MADERE, JR. COUNCILMAN AT LARGE –	DIVISION A
MICHAEL P. WRIGHT COUNCILMAN AT LARGE –	DIVISION B
VIRGIE JARROW JOHNSON	DISTRICT 1
WARREN "BOSCO" TORRES	DISTRICT 2
TAMMY HOUSTON	DISTRICT 3
TYRA DUHE–GRIFFIN	DISTRICT 4
ROBERT ARCURI	DISTRICT 5
VERNON BAILEY, SR.	DISTRICT 6
DIXIE RAMIREZ	DISTRICT 7

TYPE OF CONSTRUCTION

SEWER LIFT STATION REHABILITATION

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Will Barlett — APPROVED — 9/8/2025 DATE

CERTIFIED — 9/8/2025 DATE

STATE OF LOUISIANA
RIPLEY W. McCLURE
REG. No. 24035
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

PREPARED BY AND RECOMMENDED FOR APPROVAL

Ripley W. McClure — 9/16/25

RIPLEY W. McCLURE, P.E. DATE
SHREAD–KUYRKENDALL & ASSOCIATES, INC.

SHREAD-KUYRKENDALL & ASSOCIATES
ENGINEERS - SURVEYORS - PLANNERS
BATON ROUGE, LOUISIANA

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GENERAL NOTES:

1. PRIOR TO WORK COMMENCEMENT, THE CONTRACTOR IS RESPONSIBLE FOR FINAL VERIFICATION OF THE LOCATION OF THE UTILITIES SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONTACT LA ONE CALL (811 OR 1-800-272-3020) AND DEPARTMENT OF PUBLIC WORKS TO HAVE UTILITIES LOCATED PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE UTILITY COMPANIES FOR ALL AREAS OF CONSTRUCTION. THE LOCATION OF ALL PIPES, DUCTS, OR UNDERGROUND UTILITIES IS NOT WARRANTED TO BE EXACT NOR IS IT WARRANTED THAT ALL UNDERGROUND PIPES, DUCTS, OR UTILITY LINES ARE SHOWN.

2. THE UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE LOCATIONS ONLY. ACTUAL LOCATIONS MAY VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES, BOTH THOSE DEPICTED ON THE PLANS AND ANY ADDITIONAL UTILITY LINES DISCOVERED DURING THE COURSE OF CONSTRUCTION. INFORMATION WAS TAKEN FROM SURVEY AND MARKINGS AS WELL AS AS-BUILT DRAWINGS.

3. CONTRACTOR SHOULD NOTE THAT THERE MAY BE ADDITIONAL GAS, SEWER, AND WATER SERVICES EXISTING ALONG PROJECT ALIGNMENT. THE CONTRACTOR SHALL ANTICIPATE ADJUSTMENTS OF THESE UTILITY SERVICE LINES ACCORDING TO THE QUANTITIES DEPICTED ON THE SCHEDULE OF ITEMS WITHIN THE PROJECT SPECIFICATIONS.

4. ANY DAMAGE TO EXISTING UTILITIES DURING THE COURSE OF CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED IMMEDIATELY ACCORDING TO INDIVIDUAL UTILITY OWNER'S WISHES AT NO ADDITIONAL COST TO THE OWNER.

5. ALL EXCAVATIONS GREATER THAN 4'-0" IN DEPTH WILL REQUIRE TEMPORARY SHORING BY THE CONTRACTOR IN ACCORDANCE WITH OSHA REGULATIONS. SUCH SHORING WILL BE AT NO ADDITIONAL COST TO THE OWNER.

6. FOR THE INSTALLATION OF PIPING, SHEETING AND DEWATERING MAY BE REQUIRED, AND SUCH ITEMS SHALL BE AT NO ADDITIONAL EXPENSE TO THE OWNER.

7. ACTUAL ELEVATIONS OF PIPE INVERTS, EXISTING STRUCTURES, AND OTHER SPECIFIED ITEMS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD AT NO ADDITIONAL COST TO THE OWNER.

8. THE CONTRACTOR IS RESPONSIBLE FOR ALL PROJECT LAYOUT, WHICH SHALL BE AT NO ADDITIONAL COST TO THE OWNER.

9. ALL AREAS DISTURBED BY THE CONTRACTOR, HIS FORCES, AND/OR HIS SUBCONTRACTORS SHALL BE RETURNED TO THEIR ORIGINAL PRE-CONSTRUCTION CONDITION. ANY GRASS AREAS DISTURBED DURING CONSTRUCTION WILL REQUIRE SEEDING OF A SIMILAR TYPE UPON COMPLETION OF WORK IN THE AREA. THE CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATIONS FOR FURTHER INFORMATION.

10. PROPER CONSTRUCTION EQUIPMENT MUST BE CHOSEN BY THE CONTRACTOR FOR ALL SEWER INSTALLATIONS TO PREVENT DAMAGE TO EXISTING ROADS WHERE SUCH FORCE MAINS WILL BE INSTALLED. DUE DILIGENCE SHALL BE UTILIZED BY THE CONTRACTOR IN ALL CASES TO ELIMINATE THE POTENTIAL FOR DAMAGE TO NEARBY PAVEMENTS, CURBING, DRIVEWAYS, ETC. FAILURE TO DO SO WILL RESULT IN REPAIRS AT THE CONTRACTOR'S EXPENSE.

11. WHERE PIPING IS INSTALLED BY THE CONTRACTOR WITH OPEN CUTTING IN GRAVEL AREAS (I.E. DRIVEWAYS AND ROADS), THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT OF SUCH MATERIAL WITH SIMILAR TYPE AND THICKNESS, IN ACCORDANCE WITH STANDARD DETAILS.

12. ALL NECESSARY THRUST RESTRAINT, FITTINGS, BENDS, REDUCERS, TRANSITION COUPLINGS, SLEEVES, BLIND FLANGES, AND ANY OTHER NECESSARY APPURTENANCES REQUIRED TO PERFORM SEWER CONNECTIONS AND/OR TO MAKE THIS SYSTEM COMPLETELY FUNCTIONAL SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE PAID ACCORDING TO THE RESPECTIVE BID ITEM LISTED ON THE SCHEDULE OF ITEMS IN THE PROJECT SPECIFICATIONS.

13. ALL QUANTITIES SHOWN ON THE PLANS ARE APPROXIMATE. PAYMENT FOR QUANTITIES TO THE CONTRACTOR SHALL BE BASED ON ACTUAL QUANTITIES MEASURED IN PLACE.

14. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND PAYING FOR ALL NECESSARY FITTINGS, CORPORATION STOPS, PRESSURE GAUGES, PUMPS, CONNECTIONS, BLIND FLANGES, TAPS, PLUGS, NECESSARY WATER, AND ANY OTHER APPARATUS REQUIRED TO CONDUCT LEAKAGE TESTING OF INSTALLED SEWER LINES.

15. ALL SEWER LINE ALIGNMENTS DEPICTED WITHIN PARISH ROADS WILL REQUIRE PAVEMENT PATCHING ACCORDING TO ASPHALT AND CONCRETE PAVEMENT DETAILS SHOWN ON PARISH STANDARD PLAN, UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE PLANS. LIMITS OF PAVING AND OR PATCHING SHALL BE AS SHOWN BY THE CROSS-HATCHING ON THE PLANS. ANY OTHER AFFECTED PAVEMENTS SHALL ALSO BE RESTORED ACCORDING TO STANDARD PLANS.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PERFORMING TRAFFIC CONTROL IN ACCORDANCE WITH DOTD STANDARDS AND PARISH REQUIREMENTS. THE CONTRACTOR WILL DEVELOP THE TRAFFIC CONTROL PLAN, TO BE CERTIFIED BY A LOUISIANA REGISTERED PROFESSIONAL ENGINEER, SUPPLY ALL SIGNS, BARRICADES, AND MAINTAIN SAME.

17. CONTRACTOR SHALL REFER TO THE SPECIAL PROVISIONS FOR DIRECTION ON THE PREVENTION OF SOIL EROSION AND POLLUTION CONTROL. ALL DISTURBED AREAS TO BE REGRADED, FERTILIZED, SEEDED OR SODDED AS SPECIFIED.

18. CONTRACTOR SHALL REPLACE ALL DISTURBED TREES, SHRUBS, AND FLOWERS WITH IN KIND MATERIALS (SAME SIZE AND MATURITY) AT NO COST TO OWNER.

19. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING 18" VERTICAL CLEARANCE AND 10' HORIZONTAL CLEARANCE BETWEEN SANITARY SEWER AND WATER PIPE LINES, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS.

20. THE DIMENSIONS SHOWN BETWEEN THE UTILITIES AND THE REQUIRED FORCEMAIN ARE APPROXIMATE AND ARE FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING DEPTHS AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION AND VERIFY CLEARANCES. ADJUSTMENTS IN THE FIELD MAY BE REQUIRED BY THE CONTRACTOR AT NO DIRECT PAY. ADJUSTMENTS SHALL BE APPROVED BY THE PROJECT ENGINEER.

21. CONNECTION OF HDPE TO DUCTILE IRON AT LOCATIONS WHERE BEND CONNECTS TO DIRECTIONALLY DRILLED HDPE PIPE, THIS CONNECTION IS REQUIRED TO BE RESTRAINED JOINT ON BOTH THE DUCTILE IRON SIDE AND THE HDPE SIDE OF THE FITTING. THIS CONNECTION SHALL BE A HARVEY ADAPTER.

22. THERE ARE A NUMBER OF OVERHEAD POWER LINES IN CLOSE PROXIMITY TO THE SEWER INSTALLATIONS FOR THIS PROJECT. SHOULD ANY POWER OR OTHER UTILITY POLES REQUIRE BRACING OR ANY OTHER WORK DURING THE COURSE OF CONSTRUCTION, THIS WORK WILL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED AT NO ADDITIONAL PAY. TEMPORARY RELOCATION OF UTILITY LINES AS INDICATED HEREIN SHALL BE PERFORMED BY THE CONTRACTOR AS INDICATED. CONTRACTOR IS TO COORDINATE ALL WORK WITH UTILITIES.

23. DUE TO THE TREES PRESENT, THE CONTRACTOR SHALL RETAIN THE SERVICES OF A LICENSED ARBORIST IN THE STATE OF LOUISIANA. THIS ARBORIST SHALL PROVIDE RECOMMENDATIONS TO THE CONTRACTOR DURING THE COURSE OF THE PROJECT TO ENSURE MINIMAL DISTURBANCE TO THE TREES IN CLOSE PROXIMITY OF CONSTRUCTION WORK. RECOMMENDATIONS SHALL INCLUDE ANY NECESSARY TRIMMING, ROOT STIMULANTS, CONSTRUCTION TECHNIQUES THAT WILL PRESERVE TREES ALONG THE ROUTE, AND AS A LAST RESORT, ANY NECESSARY TREE REMOVALS. REPORTS WITH SUCH RECOMMENDATIONS SHALL BE MADE AVAILABLE TO PROGRAM MANAGER AND PARISH REPRESENTATIVES PRIOR TO THEIR IMPLEMENTATION. THE IMPLEMENTATION OF THESE RECOMMENDATIONS WILL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL PAY. ANY TREES TO BE REMOVED WILL HAVE PRIOR APPROVAL.

24. WHERE OPEN-CUTTING IS UTILIZED AS THE METHOD OF FORCEMAIN INSTALLATION, THE CONTRACTOR SHALL ENSURE THAT OPEN-CUTTING DOES NOT PRECEDE FORCEMAIN INSTALLATION BY MORE THAN 100 FEET. CONTRACTOR SHALL FILL IN OPEN EXCAVATIONS/TRENCHES AT THE END OF EACH DAY'S CONSTRUCTION; NO TRENCHES WILL BE ALLOWED TO BE OPEN OVERNIGHT UNLESS SPECIFICALLY ALLOWED BY THE PROJECT ENGINEER OR PARISH OFFICIALS.

25. WHERE PIPE DEFLECTION IS NECESSARY, THE AMOUNT OF DEFLECTION SHALL NOT EXCEED THAT NECESSARY FOR THE JOINT TO BE SATISFACTORILY MADE AND NO MORE THAN 75% OF THAT RECOMMENDED BY THE PIPE MANUFACTURER. SEE THE PROJECT SPECIFICATIONS FOR FURTHER DETAILS.

26. ALL DRIVEWAYS AND SIDEWALKS ARE CONCRETE UNLESS LABELED OTHERWISE.

27. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ANY EXCESS MATERIALS.

28. RELOCATION OF MAIL BOXES SHALL BE DONE ONLY AFTER THE PROPERTY OWNER AND POSTAL AUTHORITY HAVE BEEN NOTIFIED.

29. ALL RESIDENTS SHALL HAVE FULL ACCESS TO THEIR PROPERTY. ANY SIDEWALKS OR DRIVEWAYS TO BE TEMPORARILY BLOCKED SHALL BE COORDINATED WITH RESIDENT. DRIVES AND SIDEWALKS SHALL NOT BE BLOCKED MORE THAN 8 HOURS, AND ACCESS SHALL BE MAINTAINED WITH CRUSHED STONE.

30. EXACT LOCATION OF AIR RELEASE VALVES AND FORCE MAIN FITTINGS TO BE FIELD DETERMINED BY CONTRACTOR AND INSTALLED UPON APPROVAL BY ENGINEER/OWNER.

31. THE CONTRACTOR IS RESPONSIBLE FOR THE TOTAL PROJECT TRAFFIC PLAN. THIS PLAN WILL INCLUDE THE TEMP. LANE CLOSURES, DAYTIME AND NIGHTTIME FACILITIES, OPERATIONAL PLAN, AND OVERALL AND STAGED TRAFFIC PLAN. THIS PLAN WILL BE CERTIFIED BY A LOUISIANA REGISTERED PROFESSIONAL ENGINEER. IT WILL BE DONE IN ACCORDANCE WITH THE MUTCD LATEST EDITION.THE CONTRACTOR WILL COORDINATE WITH THE OWNER TRAFFIC DEPT. FOR ANY CLOSURES (MIN. 2 WEEK NOTICE).

32. SEWER FORCE MAIN TO BE RESTRAINED THE ENTIRE LENGTH.

33. ALL CONCRETE REMOVAL TO BE TO THE NEAREST JOINT, OR SAWCUT. ASPHALT JOINTS TO BE SAWCUT.

SIDEWALKS

1. ALL SIDEWALKS SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, WITH A COMPRESSIVE STRENGTH OF 2,500 P.S.I. IN TWENTY-EIGHT DAYS, AND A MINIMUM THICKNESS OF 4".

2. ALL SIDEWALKS ARE TO HAVE A WIDTH OF 4' AND SHALL BE CONSTRUCTED AS PER THE LOCATION SHOWN ON THIS PLAN.

3. ALL SIDEWALKS SHALL BE SCORED TO A DEPTH OF 1" AT 4-FOOT INTERVALS, WITH EXPANSION JOINTS PLACED AT 20-FOOT INTERVALS.

4. EXPANSION JOINTS SHALL BE CONSTRUCTED OF 3/4" THICK PRE-MOLDED EXPANSION MATERIAL WITH ALL CORNERS TO BE FORMED BY EXPANSION JOINTS.

5. ANY SIDEWALK OR ACCESSIBLE ROUTE THAT IS NOT AT LEVEL ELEVATION AT ITS INTERSECTION WITH A DRIVEWAY OR STREET SHALL BE REQUIRED TO INSTALL A CURB RAMP AT A MAXIMUM SLOPE OF 1:12, WITH A MAXIMUM RISE OF 30" AND A MINIMUM LEVEL STRAIGHT CURB SEGMENT OF 48".

6. THE DRIVEWAY AND INTERSECTION HANDICAP RAMPS SHALL BE CONSTRUCTED WITH THE CURRENT ADA APPROVED DETECTABLE WARNING SURFACES. THESE DETECTABLE WARNINGS SHALL CONSIST OF TRUNCATED DOMES WITH A DIAMETER OF NOMINAL .9"(23mm), A HEIGHT OF NOMINAL .2"(5mm) AND CENTER-TO-CENTER SPACING OF NOMINAL 2.35"(60mm) AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.

7. SIDEWALK SHALL BE SLOPED 1" TOWARDS THE STREET.

8. CONTRACTOR SHALL CONTACT THE PARISH, TWO DAYS PRIOR TO ANY WORK DONE WITHIN THE PARISH RIGHT-OF-WAY OR SERVITUDE.

DRIVEWAYS

1. ALL DRIVEWAYS BETWEEN STREET AND PROPERTY LINE SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, WITH A COMPRESSIVE STRENGTH OF 4,000 P.S.I. IN 28 DAYS AND A MINIMUM THICKNESS OF 10".

2. ALL DRIVEWAYS BETWEEN STREET AND PROPERTY LINE CONNECTING WITH AN EXISTING ROADWAY ARE TO BE CONSTRUCTED IN ACCORDANCE WITH DETAIL AS SHOWN ON THIS PLAN.

3. EXACT LOCATION OF ROADWAY AND DRIVEWAY CURBING WILL BE DETERMINED IN THE FIELD BY A REPRESENTATIVE OF THE DEPARTMENT OF ENGINEERING.

4. CONTRACTOR SHALL CONTACT THE OWNER, TWO DAYS PRIOR TO THE FORMING OF THE DRIVEWAYS CONNECTING TO THE ROADWAY.

LEGEND
EXISTING TOPOGRAPHY:

CATCH BASIN	P	POWER LINE (UG)	———
CATCH BASIN	Z	POWER POLE	F
DITCH LINE	═══	SEWER CLEANOUT	V
FENCE	———	SEWER LINE	———
FIRE HYDRANT	L	SIGN POST	h
GAS LINE (UG)	———	TELEPHONE LINE (OH)	———
GAS METER	B	TELEPHONE LINE (UG)	———
GAS REGULATOR	T	TELE PED	M
GAS SERVICE	W	TELEPHONE POLE	Y
GAS TEST BOX	S	TELEVISION CABLE (OH)	———
GAS VALVE	A	TREE	e
GUY / DM	⟩—	UNDERBRUSH	~~~
LIGHT POLE	☼	WATER LINE (UG)	———
MANHOLE	I	WATER METER	D
PIPE	═══	WATER VALVE	T
PIPELINE REGULATOR	U	WATER VALVE VAULT	X
PIPE VENT	H		
POST	N		
POWER JCT BOX	a		
POWER LINE (OH)	———		

STATE OF LOUISIANA
STEVEN P. BREEDING
REG. No. 23247
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
04/10/25

SHEET NUMBER 02

PARISH: ST. JOHN THE BAPTIST | CITY: ----- | PROJECT: 89091.14

DESIGNED SPB | DETAILED DBS | DATE
CHECKED ADS | CHECKED ADS | SHEET

NO.	DATE	REVISION DESCRIPTION	BY

GENERAL NOTES

WEST 13TH STREET, WEST 8TH STREET, AND EAST 13TH STREET LIFT STATION REHABILITATION

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STRUCTURAL NOTES:

GENERAL NOTES

THE GENERAL NOTES AND TYPICAL DETAILS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY.

IN STRUCTURAL TYPICAL DETAILS, ORIENTATION OF SLAB OR WALL BARS IN EACH MAT OF REINFORCEMENT IS GENERALLY ARBITRARY. SEE DRAWINGS OF EACH STRUCTURE FOR ORIENTATION REQUIRED AT THAT STRUCTURE.

DESIGN CRITERIA

IBC–2012 (INTERNATIONAL BUILDING CODE, LATEST EDITION)

ACI 318–08 (BUILDING CODE REQUIREMENTS FOR CONCRETE STRUCTURES)

ACI 350–06 (CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES)

FOR ALL ENVIRONMENTAL STRUCTURES (PUMP STATIONS, VAULTS, OVERFLOW STRUCTURES)

ACI 530–05 (BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES)

ACI 530.1–05 (SPECIFICATIONS FOR MASONRY STRUCTURES)

AISC 360–05 (SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS)

AISC 341–05 (SIESMIC PROVISIONS FOR STRUCTURAL STEEL BUILDING, INCLUDING SUPPLEMENT NO. 1, LATEST EDITION)

ASCE 7–05 (MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES)

NOTE: ALL REFERENCE CODES WILL BE THE CLOSEST EDITION

LOADS

DEAD LOADS:
- STRUCTURE: DL = CALCULATED FOR STRUCTURE SELF WEIGHT.
- PARTITIONS: DL =20 PSF (NOT INCLUDING CONCRETE & MASONRY PARTITIONS,WHICH SHALL BEBASED ON ACTUAL WEIGHT)
- ADDITIONAL FLOOR LOADS: DL = 25 PSF (PROCESS AREAS); DL = 10 PSF(OTHER AREAS)

LIVE LOADS:

ASSEMBLY, EXIT CORRIDORS:	LL = 100 PSF
ELECTRICAL ROOMS:	LL = 300 PSF (EXCEPT FOUNDATION; SEE NOTE 1)
GENERAL OFFICE AREAS:	LL = 50 PSF
GRATING:	LL = SAME AS LOCATION SERVED (150PSF MIN)
HVAC MECHANICAL ROOMS:	LL = 150PSF (SEE NOTE 2)
PROCESS AREAS:	LL = 250PSF (SEE NOTE 3)
ROOF:	
–UNLESS NOTED OTHERWISE	LL = 20PSF + EQUIPMENT WEIGHT
STAIRS, WALKWAYS & PLATFORMS:	LL = 250PSF (SEE NOTE 3)
STORAGE AREAS:	LL = 300PSF
VEHICLE ACCESS AREAS:	LL = AASHTO HS 20–44

NOTES:
1. FOUNDATION LIVE LOAD FOR ELECTRICAL ROOMS MAY BE TAKEN AS 200 PSF OR ACTUAL LOAD, WHICHEVER IS GREATER
2. OR WEIGHT OF EQUIPMENT PLUS 50 PSF.
3. UNLESS NOTED OTHERWISE ON DRAWINGS OR SPECIFICATIONS.

RAIN LOADS: RAIN LOADS SHALL BE TAKEN ASSUMING PRIMARY DRAINS ARE PLUGGED AND WATER LOAD IS AT OVER FLOW ELEVATION. PONDING AT THIS LEVEL SHALL ALSO BE CONSIDERED.

SNOW LOADS: GROUND SNOW LOAD (Pg) = 0 PSF

DESIGN DATA

SEISMIC DESIGN DATA:

THIS PROJECT COMPLIES WITH THE SEISMIC REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION.

SEISMIC DESIGN DATA:
- SOIL SITE CLASS: = D (ALL SITES)
- SPECTRAL RESPONSE ACCELERATIONS,
- SHORT PERIOD STRUCTURES, Ss = 0.125
- ONE SECOND PERIOD, S1 = 0.054
- OCCUPANCY CATEGORY III
- SEISMIC DESIGN CATEGORY = B
- SEISMIC IMPORTANCE FACTOR (EARTHQUAKE): Ie= 1.25

SOILS DESIGN DATA:

FOR SOILS INFORMATION AND DESIGN REQUIREMENTS, REFER TO GEOTECHNICAL INVESTIGATION AND FOUNDATION DESIGN RECOMMENDATIONS.

WIND DESIGN DATA:

BASIC WIND SPEED = 140 MPH
EXPOSURE CATEGORY C
IMPORTANCE FACTOR (WIND) Iw=1.15

CAST–IN–PLACE CONCRETE NOTES

REINFORCED CONCRETE SHALL CONFORM TO THE LATEST EDITION OF ACI 301, ACI 318
AND ACI 350 AS STATED IN DESIGN CRITERIA.

MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS (UNLESS NOTED OTHER WISE ON DRAWINGS) [SEE SPECIFICATIONS SECTION 03300 CLASSES OF CONCRETE].

ENVIRONMENTAL STRUCTURAL ENGINEERED STRUCTURES (PUMP STATIONS, VAULTS, OVERFLOW STRUCTURES):	f'c = 4,500 PSI (CLASS E3)
TYPICAL STRUCTURAL CONCRETE:	f'c = 4,000 PSI (CLASS D3)
CONCRETE FILL:	f'c = 2,500 PSI (CLASS A)
CONDUIT/PIPE ENCASEMENTS:	f'c = 3,000 PSI (CLASS B)
CURBS AND SIDEWALKS:	f'c = 3,000 PSI (CLASS B)

CAST–IN–PLACE CONCRETE NOTES (CONT.)

3. REINFORCING STEEL SHALL BE BILLET STEEL CONFORMING TO THE LATEST EDITION OF ASTM A615, GRADE 60.
4. REINFORCING STEEL FABRICATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CRSI MANUAL OF STANDARD PRACTICE.
5. MINIMUM CONCRETE COVER SHALL BE TO NEAREST EXPOSED SURFACE.
6. ALL EXPOSED CORNERS OF CONCRETE SHALL HAVE 3/4" CHAMFER, UNLESS OTHERWISE NOTED.
7. WALL REINFORCEMENT AT CORNERS OR JUNCTIONS OF WALLS SHALL BE CONTINUOUS, LAPPED, OR TERMINATED IN AN ACI STANDARD 90 DEGREE HOOK DETAIL. LAP SPLICES SHALL CONFORM WITH THE TABLE ON SHEET 2a.
8. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, BARS SHALL BE DOWELED. DOWELS SHALL BE THE SAME SIZE AND SPACING AS THE REINFORCEMENT WHICH IS SPLICED TO THE DOWELS UNLESS OTHERWISE NOTED.
9. STIRRUP SUPPORT BARS SHALL BE PROVIDED AS REQUIRED TO SECURE TOP BARS AGAINST DISPLACEMENT.
10. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, CONCRETE COVER OVER #11 AND SMALLER REINF BARS SHALL BE AS FOLLOWS:

A. SLABS AND JOISTS:

FORMED CONCRETE SURFACES AND UNFORMED TOP SURFACES FOR DRY CONDITIONS:..... 1 1/2"

FORMED CONCRETE SURFACES AND UNFORMED TOP SURFACES EXPOSED TO WEATHER, IN CONTACT WITH SOIL OR FLUIDS, OR LOCATED OVER FLUIDS:..... 2"

B. BEAMS :

FORMED CONCRETE SURFACES FOR DRY CONDITIONS:
STIRRUPS AND TIES:..... 1 1/2"
PRINCIPAL REINFORCEMENT:..... 2"

FORMED CONCRETE SURFACES EXPOSED TO WEATHER, IN CONTACT WITH SOIL OR FLUIDS, OR BEAMS LOCATED OVER FLUIDS:
STIRRUPS AND TIES:..... 2"
PRINCIPAL REINFORCEMENT:..... 2 1/2"

C. WALLS:

FORMED CONCRETE SURFACES FOR DRY CONDITIONS:..... 2"

FORMED CONCRETE SURFACES EXPOSED TO WEATHER, OR IN CONTACT WITH SOIL OR FLUIDS:..... 2"

D. FOOTINGS AND SLABS ON GRADE:

FORMED CONCRETE SURFACES:..... 2"

AT UNFORMED CONCRETE SURFACES CAST AGAINST THE SOIL OR CONCRETE WORK MATS:..... 3"

11. NOT USED
12. WATERSTOPS SHALL END 3" BELOW THE TOP OF WALLS, UNLESS THERE IS A SLAB ON TOP OF THE WALL, IN WHICH CASE THEY SHALL END AT THE UNDERSIDE OF THE SLAB ABOVE. IN JOINTS WHERE WATERSTOP TERMINATES AT ADJOINING SLAB OR WALL, WATERSTOP SHALL BE EMBEDDED IN ADJOINING SLAB OR WALL A MINIMUM OF 6".
13. CONCRETE CURING SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WHERE WATER CURING IS REQUIRED, MEMBRANE CURING IS NOT ALLOWED. THE CONTRACTOR IS WARNED THAT WATER CURING IS DIFFICULT AT TIMES DUE TO WIND AND DRY CONDITIONS. THE CONTRACTOR SHALL STUDY REQUIREMENTS AND SHALL FURNISH ADEQUATE SYSTEMS TO PROVIDE WATER CURING WHERE REQUIRED. TOP OF WALLS SHALL BE KEPT VISIBLY MOIST AT ALL TIMES AND SHALL BE FLOODED NOT LESS THAN THREE TIMES DAILY.
14. WATERSTOP SHALL BE PLACED CONTINUOUSLY IN CONSTRUCTION, CONTRACTION, AND EXPANSION JOINTS IN WATER BEARING SLABS AND WALLS UNLESS OTHERWISE, EXPLICITLY, INDICATED ON THE DRAWINGS, AND IN WALLS AND SLABS SUBJECTED TO GROUNDWATER. WATERSTOP IN THE WALLS SHALL BE CARRIED INTO SLABS AND SHALL BE SPLICED WITH THE WATERSTOP IN THE SLABS.
15. NO BACKFILL SHALL BE PLACED AGAINST WALLS UNTIL CONCRETE HAS REACHED THE SPECIFIED STRENGTH AND ALL CONNECTING SLABS AND BEAMS PROVIDING SUPPORT TO THE WALLS HAVE BEEN CAST AND HAVE REACHED THE SPECIFIED STRENGTH.
16. ALL REINFORCING SHOWN IS FOR ILLUSTRATION ONLY AND IS NOT TO SCALE. ACTUAL SIZE, SPACING, AND QUANTITIES ARE AS WRITTEN ON DRAWINGS.
17. AN EXTRA 1/4% REINFORCING (IN ADDITION TO REINFORCING AS STATED ON DRAWINGS) SHALL BE PROVIDED BY CONTRACTOR TO BE PLACED AT MISCELLANEOUS LOCATIONS WHEN DIRECTED BY ENGINEER OF RECORD. WHEN EXTRA REINFORCING IS NOT REQUIRED CREDIT SHALL BE GIVEN TO OWNER.
18. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, UNLESS NOTED OTHERWISE, SHALL BE IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315), LATEST EDITION.
19. ALL CONSTRUCTION JOINTS IN STRUCTURAL SLABS, BEAMS OR GIRDERS SHALL BE MADE AT MIDDLE THIRD OF SPAN UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ADDITIONAL CONSTRUCTION JOINTS SHALL HAVE PRIOR APPROVAL OF ENGINEER.
20. UNLESS OTHERWISE INDICATED ON THE PLANS OR APPROVED BY ENGINEER, CONSTRUCTION AND/OR CONTRACTION JOINTS PLACED IN SLABS AND WALLS SHALL NOT EXCEED 40' INTERVALS. CONCRETE PLACEMENT FOR WALLS SHALL NOT EXCEED 20' IN HEIGHT EACH LIFT.
21. UNLESS OTHERWISE INDICATED ON THE PLANS, CONTRACTOR MAY LOCATE THE CONSTRUCTION JOINTS AT HIS CONVENIENCE, HOWEVER THE CONTRACTOR'S PROPOSED CONSTRUCTION JOINT LOCATIONS MUST BE APPROVED BY ENGINEER PRIOR TO THE CONCRETE PLACEMENT.
22. PENETRATIONS OTHER THAN SHOWN SHALL NOT BE ALLOWED WITHOUT ENGINEER'S PRIOR APPROVAL.

CAST–IN–PLACE CONCRETE NOTES (CONT.)

23. IN ELEVATED SLABS, LAP CONTINUOUS BOTTOM REINFORCEMENT AT SUPPORTS AND CONTINUOUS TOP REINFORCEMENT AT THE CENTER OF THE SPAN, UNLESS OTHERWISE NOTED.
24. IN BASE SLABS, LAP CONTINUOUS BOTTOM REINFORCEMENT AT THE CENTER OF SPAN AND CONTINUOUS TOP REINFORCEMENT AT SUPPORTS, UNLESS OTHERWISE NOTED.
25. IN CASES WHERE BARS CANNOT BE EXTENDED AS FAR AS REQUIRED DUE TO THE LIMITED EXTENT OF THE ADJACENT CONCRETE STRUCTURE, THE BARS SHALL EXTEND AS FAR AS POSSIBLE AND END IN STANDARD HOOKS.
26. BARS ENDING IN RIGHT ANGLE BENDS OR HOOKS SHALL CONFORM TO THE REQUIREMENTS OF PAR. 7.1, ACI 318.
27. FOR HORIZONTAL CONSTRUCTION JOINTS, ADDITIONAL SHRINKAGE REINFORCING IS REQUIRED FOR WATERTIGHT STRUCTURES. HORIZONTAL REINFORCING SHALL BE DOUBLE AT 2'–0" BEFORE AND 2'–0" AFTER THE HORIZONTAL JOINT EXCEPT BEAMS AND SLABS PERPENDICULAR TO THE WALL DO NOT REQUIRE THE ADDITIONAL REINFORCING.

LAP SPLICE AND DEVELOPMENT LENGTHS FOR CONCRETE REINFORCING STEEL

UNLESS NOTED OTHERWISE ON THE DRAWINGS

BAR SIZE	LENGTH OF LAPPED SPLICES (INCHES)		FOR REINFORCEMENT LENGTH OF END ANCHORAGE FOR DEVELOPMENT OF REINFORCEMENT (INCHES)		
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	HOOKED BARS
3	26	20	20	15	7
4	33	25	25	19	8
5	42	32	32	24	10
6	50	38	38	29	12
7	72	55	55	42	14
8	82	63	63	48	17
9	93	71	71	54	18
10	104	80	80	61	21
11	115	88	88	67	23

NOTES:

1. TABLE IS BASED ON ACI 318–05.
2. TABULATED VALUES ARE BASED ON USING NORMAL WEIGHT CONCRETE (f'c=4000psi, fy=60,000 psi) UNCOATED REINFORCEMENT CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2db, AND CLEAR COVER NOT LESS THAN db. FOR LIGHTWEIGHT CONCRETE, THE VALUES SHALL BE MULTIPLIED BY 1.3. LAP SPLICE AND DEVELOPMENT LENGTHS SHALL BE INCREASED FOR LOWER CONCRETE STRENGTH AS FOLLOWS:

f'c	MULTIPLIER
2500 psi	1.26
3000 psi	1.16
4500 psi	1.00

3. TOP BARS ARE HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR. VERTICAL BARS MAY BE CONSIDERED AS OTHER BARS.
4. LAPPED SPLICES SHALL NOT BE MADE AT POINTS OF MAXIMUM STRESS UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR AS DETERMINED BY THE ENGINEER.
5. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, THE BARS AT A LAP SPLICE SHALL BE IN CONTACT WITH EACH OTHER.

STATE OF LOUISIANA
STEVEN P. BREEDING
REG. No. 23247
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
04/10/25

SHEET NUMBER 02A

ST. JOHN THE BAPTIST | ----- | 89091.14
PARISH | CITY | PROJECT

DESIGNED SPB
CHECKED ADS
DETAILED DBS
CHECKED ADS
DATE
SHEET

REVISION DESCRIPTION | BY | DATE | NO.

GENERAL NOTES

WEST 12TH STREET, WEST 8TH STREET, AND EAST 13TH STREET LIFT STATION REHABILITATION

S:\CADD\89091\89091.14\002-2A_GEN-NOTES.DWG

GENERAL NOTES:

1. THE TOPOGRAPHIC SURVEY UTILIZED THE LA STATE PLANE 1702 SOUTH COORDINATE SYSTEM FOR THE HORIZONTAL CONTROL AND THE SSO PROGRAM DATUM FOR THE VERTICAL CONTROL (GEOID 12A). THE PLANT MAIN CONTROL IS LISTED AS SIGMA 1–3 AND ARE BRASS DISK SET IN CONCRETE
2. UTILITIES WERE REQUESTED THROUGH LA ONE CALL AND AS–BUILTS PROVIDED BY UTILITY COMPANIES. ALL UTILITIES SHOULD BE VERIFIED IN THE FIELD BEFORE CONSTRUCTION
3. THIS SURVEY MAY NOT SHOW SERVITUDES OR RIGHT OF WAYS THAT EXIST.
4. DATE OF FIELD SURVEY

ORIGINAL SUBMITTAL:
REVISION ONE:

THIS SURVEY WAS DONE IN LOUISIANA STATE PLANE COORDINATE SYSTEM 1702 SOUTH ZONE, NAD 83, NAVD 88. PROJECT CONTROL WAS ESTABLISHED BASED ON STATIC GPS OBSERVATIONS SUBMITTED TO OPUS FOR POST PROCESSING.

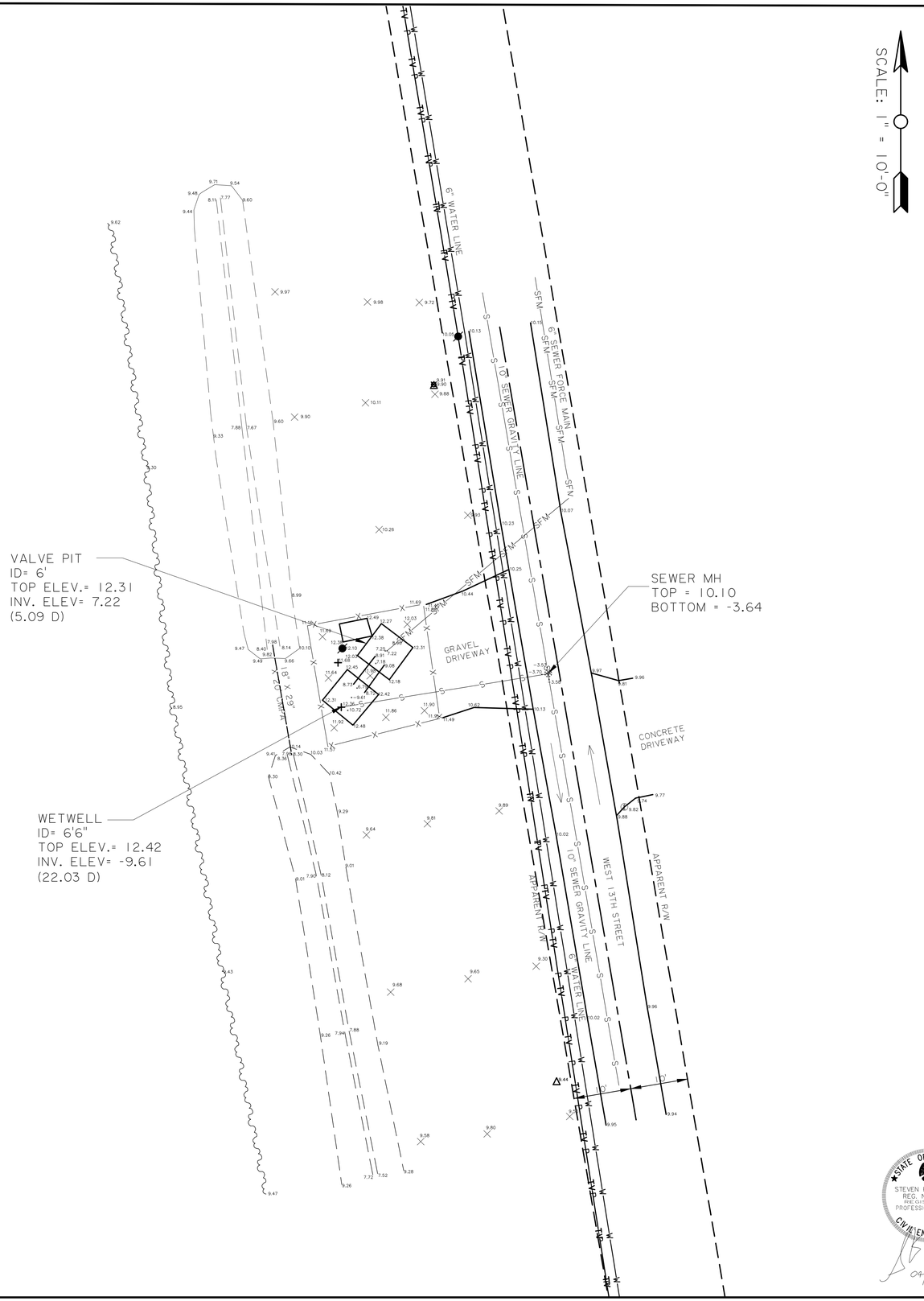
UTILITIES WERE REQUESTED THROUGH LA ONE CALL AND AS–BUILTS PROVIDED BY UTILITY COMPANIES. ALL UTILITIES SHOULD BE VERIFIED IN THE FIELD BEFORE CONSTRUCTION.

THIS SURVEY IS NOT A PROPERTY SURVEY AND DOES NOT CONFORM TO THE LOUISIANA REVISED STATUES FOR THE STANDARDS OF PRACTICE FOR BOUNDARY SURVEYS. THIS SURVEY MAY NOT SHOW ALL SERVITUDES OR RIGHT OF WAYS THAT EXIST.

LEGEND – EXISTING TOPOGRAPHY

CONTROL POINT	△	**GAS LINE**	—G—G—
TEMPORARY BENCH MARK	BM	GAS METER	⊗
PHOTO TARGET	⊠	GAS SERVICE (NO METER)	⋈
PAVEMENT EDGE		GAS REGULATOR	GR
SHOULDER EDGE		GAS RISER	R
SLOPE TOE		GAS TEST BOX	GT
GUARDRAIL TOP		GAS VALVE	⊗
HIGH BANK		GAS LINE/CASING	=G=G=
WATER'S EDGE		GAS VENT	⊗
HIGH WATER MARK	+	RAILROAD MILEPOST	MP
BOX CULVERT		RAILROAD SIGNAL	
PIPE CULVERT		RAILROAD SWITCH	
CATCH BASIN TOP (ROUND)		RAILROAD TRACK	
DROP INLET TOP (ROUND)		RR TRAFFIC SIGNAL BOX	SB
DRAINAGE MANHOLE TOP		SEWER LINE	—S—S—
LEVEE TOP		SEWER MANHOLE TOP	
DITCH CENTERLINE		SEWER BLOWOUT VALVE	
TREE		SEWER CLEANOUT	
WOODS EDGE		SEPTIC TANK	
MARSH LINE		SEWER PUMP (PRIVATE)	
SWAMP LINE		SEWER TREATMENT (INDIVIDUAL)	
TREE CLUSTER		FEDERAL AID MARKER	F
HEDGE		TRAFFIC CONTROLLER BOX	
BUSH		TRAFFIC COUNTER	
TREE LINE		TRAFFIC SIGNAL	
FENCE LINE	—X—X—	TRAFFIC SIGNAL SUPPORT POLE	
GATE		LIGHT POLE	
CATTLE GUARD		LIGHT PEDESTAL	
PROPERTY CORNER		LIGHT POWER VAULT	
RIGHT OF WAY MONUMENT		TRAFFIC SIGN	
SECTION CORNER		PARKING METER	
FENCE CORNER		TELEPHONE POLE	
TELEVISION CABLE	—TV—T—	TELEPHONE LINE	—T—T—
TELEVISION PEDESTAL	TV	TELEPHONE BOOTH	TB
POWER POLE		TELE CROSS CONNECT BOX	TX
DEADMAN		TELEPHONE PEDESTAL	
POWER LINE	—P—P—	TELEPHONE PRESSURE BOX	
POWER JUNCTION BOX	P	WATER LINE	—W—W—
POWER VAULT	P	WATER LINE/CASING	=W=W=
TRANSFORMER	T	WATER CLEANOUT	W
COMBINATION POLE		WATER METER	
POWER DROP		WATER VALVE	
PIPELINE	—O—O—	WATER VALVE VAULT	
PIPELINE VENT		WATER WELL	
PIPELINE REGULATOR	R	FIRE HYDRANT	
GAS WELL	G	BILLBOARD	∅—∅
HAY BALES	HB HB HB HB HB HB HB HB	FUEL PUMP	
SILT FENCE	—SF—SF—	POST	
INLET SILT TRAP		SIGN POST	
UNDERGROUND POWER LINE	---P---	STORAGE TANK (ROUND)	
FIBER OPTIC LINE	--F/O(B)---F/O(B)	MAILBOX	MB
		GRAVE	
		ORNAMENTAL LIGHT	
		FLAG POLE	
		BORING	
		TELEPHONE FIBER OPTIC LINE	---TFO--

SCALE: 1" = 10'-0"



STATE OF LOUISIANA
STEVEN P. BREEDING
REG. No. 23247
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
09/10/25

SHEET NUMBER	03
PARISH	ST. JOHN THE BAPTIST
CITY	-----
PROJECT	89091.14
DESIGNED	SPB
CHECKED	ADS
DETAILED	DBS
CHECKED	ADS
DATE	
SHEET	

NO.	DATE	REVISION DESCRIPTION	BY

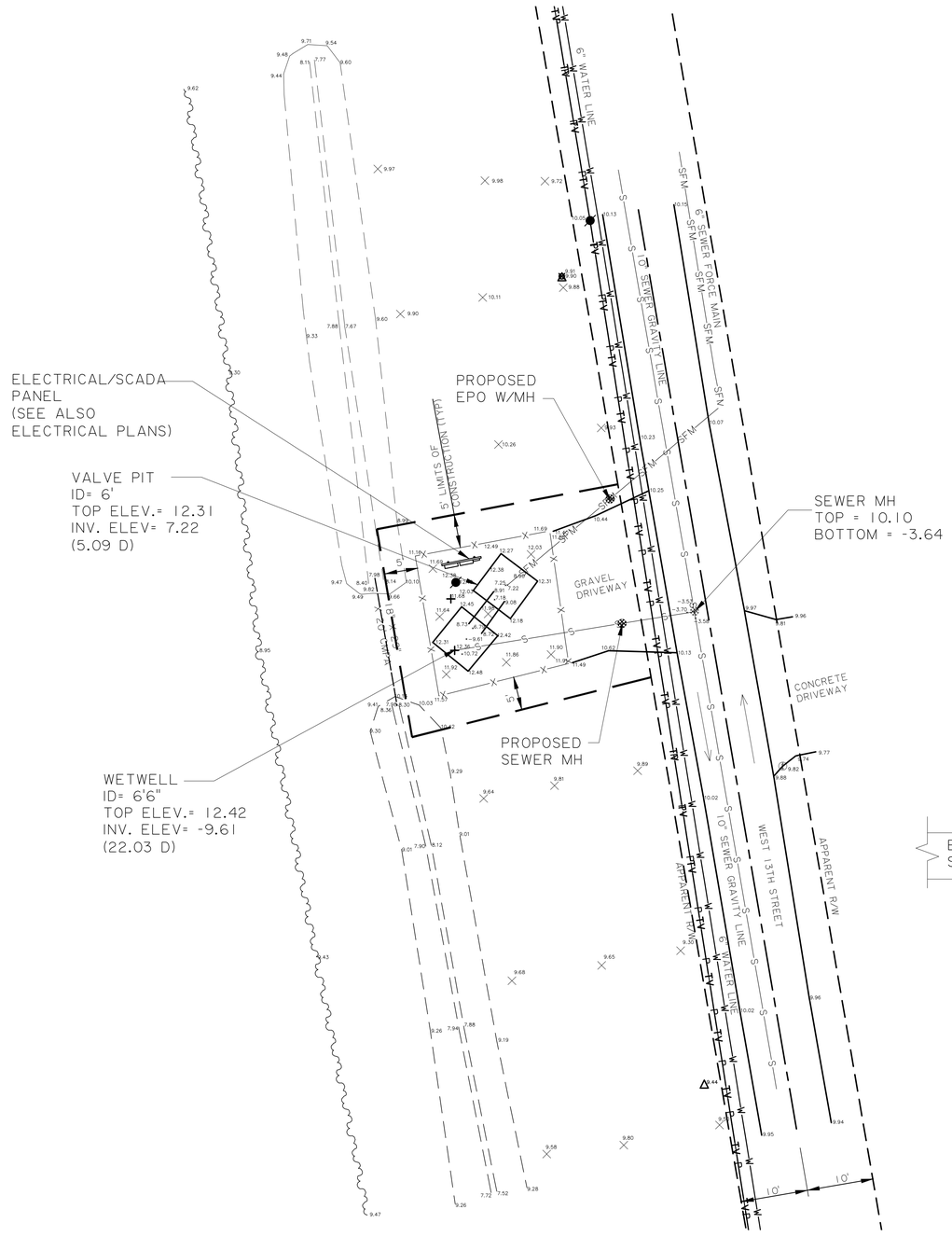
WEST 13TH STREET
EXISTING SITE PLAN

WEST 13th STREET, WEST 8th STREET, AND EAST 13th STREET
LIFT STATION REHABILITATION

S:\CADD\89091\89091.14\003_WEST 13TH LS–EXIST.DWG

PROPOSED SCOPE OF WORK

1) CONTRACTOR TO SETUP THE TRAFFIC SIGNS PER THE CONTRACTOR SUPPLIED AND ENGINEER/OWNER APPROVED TRAFFIC PLAN
2) INSTALL PROPOSED SEWER MANHOLE (FOR BYPASS PUMPING SUCTION)
3) INSTALL PROPOSED SEWER EPO WITH MANHOLE (FOR BYPASS PUMPING DISCHARGE)
4) CONTRACTOR TO BEGIN BYPASS PUMPING PER THE CONTRACTOR SUPPLIED AND ENGINEER/OWNER APPROVED BYPASS PUMPING PLAN
5) CONTRACTOR TO REMOVE ALL ELECTRICAL (SEE ELECTRICAL DRAWINGS) ITEMS NOT TO BE REUSED
6) CONTRACTOR TO REMOVE PUMPS, PIPING, AND TOP SLABS AND DISPOSE OF IN A LEGAL FASHION
7) CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO PURCHASING EQUIPMENT
8) CONTRACTOR TO CLEAN OUT WET WELL AND COAT PER PLANS AND SPECIFICATIONS
9) CONTRACTOR TO INSTALL NEW VALVE PIT AND WET WELL TOPS WITH HATCHES
10) CONTRACTOR TO INSTALL PIPING, FITTINGS, AND ALL PUMP ACCESSORIES ACCORDING TO THE PLANS AND SPECIFICATIONS , AS WELL AS PER MANUFACTURER'S RECOMMENDATIONS
11) INSTALL ALL ELECTRICAL ITEMS PER THESE ELECTRICAL PLANS AND SPECIFICATIONS , AS WELL AS PER MANUFACTURER'S RECOMMENDATIONS
12) CONTRACTOR TO COORDINATE WITH THE ENGINEER/OWNER TO SCHEDULE STARTUP AND TESTING ALONG WITH A FINAL INSPECTION
13) COMPLETE ALL PUNCH LIST ITEMS, PERFORM FINAL CLEANUP OF SITE AND DEMOBILIZE



CONTRACTOR TO VERIFY EXISTING PIPE SIZE PRIOR TO ORDERING MATERIAL

EPO DETAIL
SEE ALSO EPO MANHOLE DETAIL (SHT. 12)

STATE OF LOUISIANA
STEVEN P. BREEDING
REG. No. 23247
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
04/10/25

SHEET NUMBER	04
PARISH	ST. JOHN THE BAPTIST
CITY	-----
PROJECT	89091.14
DESIGNED	SPB
CHECKED	ADS
DETAILED	DBS
CHECKED	ADS
DATE	
SHEET	

NO.	DATE	REVISION DESCRIPTION	BY

WEST 13TH STREET
PROPOSED SITE PLAN

WEST 13TH STREET, WEST 8TH STREET, AND EAST 13TH STREET
LIFT STATION REHABILITATION

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SCHEDULE OF MECHANICAL ELEMENTS

ITEM No.	DESCRIPTION	SIZE L.S. No.
2	90° D.I. BEND (LR)	6"ø
3	D. I. PIPE	6"ø
4	SUBMERSIBLE PUMP (2 REQ'D.)	10 H.P.
9	GATE VALVE	6"ø
10	CHECK VALVE	6"ø
11	4X6 NONCONCENTRIC REDUCER	6"ø
12	WET WELL HINGED COVER ("A" x "B") ■	36"X60"
13	WET WELL HINGED COVER ("A" x "B") ■	48"X48"
14	D.I. SPOOL PIECE (FLANGE X PLAIN END)	6"ø
15	CONDUIT TO CONTROL PANEL	2"
16	CONDUITS TO CONTROL PANEL	2"
17	PUMP POWER CABLE	2 REQ'D
18	S. S. GUIDE RAIL	4 REQ'D
19	S. S. CABLE HOLDER	2 REQ'D
20	S. S. GUIDE BRACKET	2 REQ'D
21	S. S. LIFT CABLE	2 REQ'D
22	LINK & SEAL	PLAN
25	D.I. 6" X 6" TEE	6"ø
26	3" DUCKBILL CHECK VALVE	3"ø

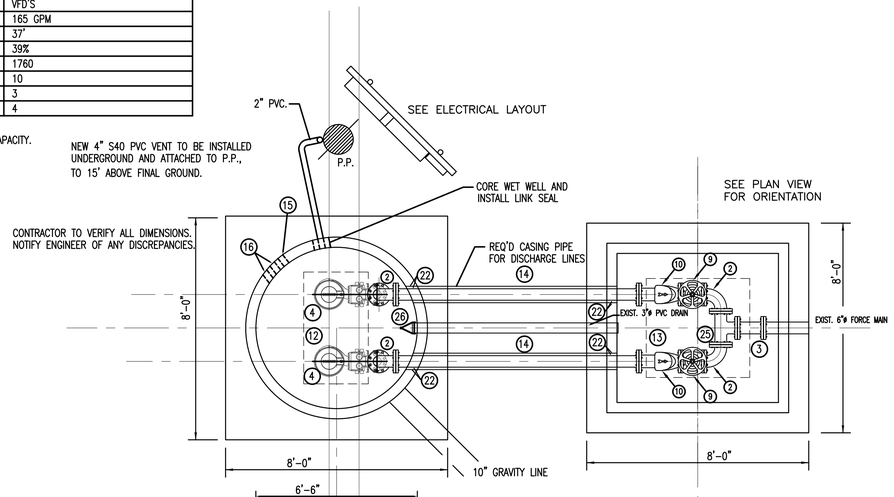
■ OR AS PER MANUFACTURERS RECOMMENDATIONS

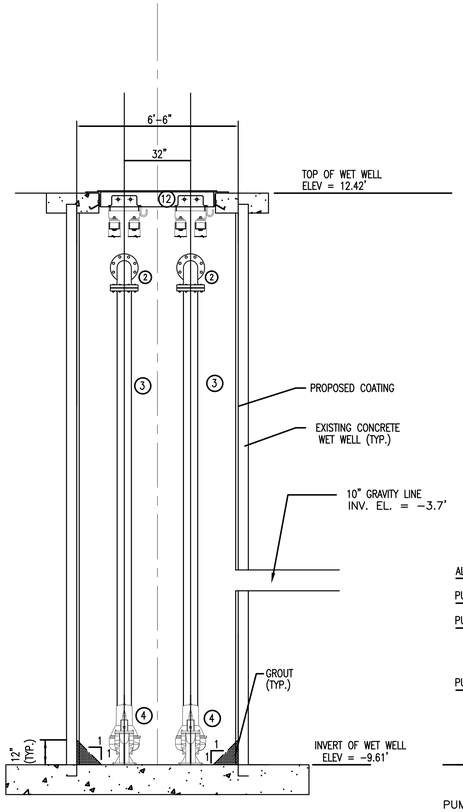
NOTE: ALL PIPE/FITTINGS TO BE RESTRAINED

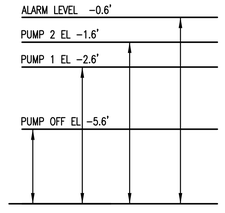
PUMP DATA TABLE

PUMP STATION NUMBER	W. 13TH
APPROVED PUMP MANUFACTURER	GRUNDFOS
PUMP MODEL NUMBER	SLV.30.A40 .55.EX.4.61.R.C.
PUMP SERIAL NOS.	
PUMP MOTOR	230V, 3 PHASE, 60 Hz
NUMBER OF PUMPS	2
TYPE OF DRIVE	VFD'S
DESIGN CAPACITY, GPM	165 GPM
TOTAL DYNAMIC HEAD, FT.	37'
MIN. EFF. AT DESIGN CAPACITY, %	39%
DESIGN SPEED, R.P.M.	1760
MIN HORSEPOWER/PUMP	10
MAX SIZE SOLIDS, IN.	3
DISCHARGE SIZE, IN.	4

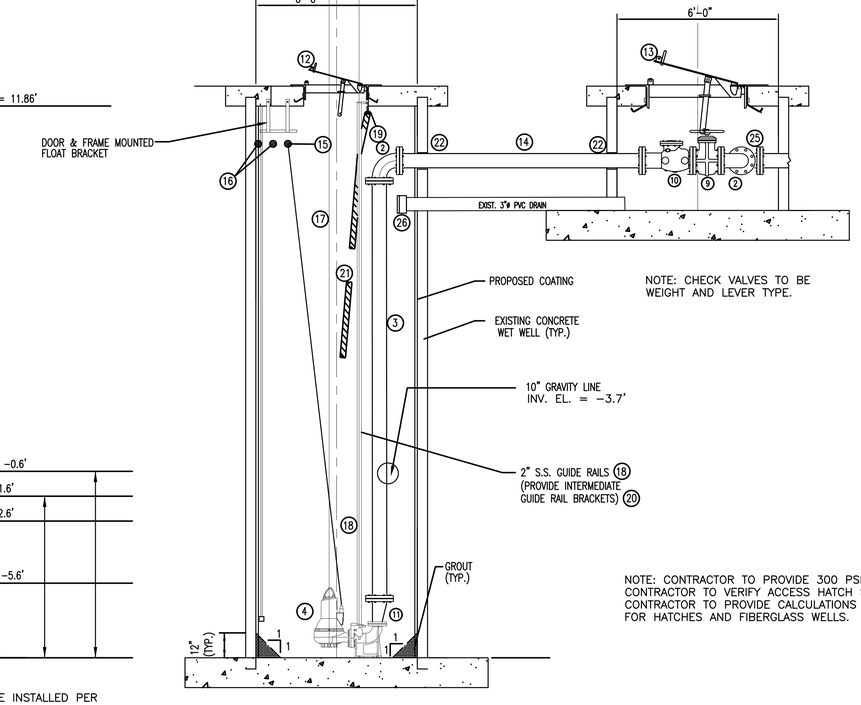
LIFTING BALL REQ'D. FOR PUMPS
SEE ALSO SPECIFICATIONS FOR PUMP CAPACITY.







PUMPS TO BE INSTALLED PER MANUF. RECOMMENDATIONS.

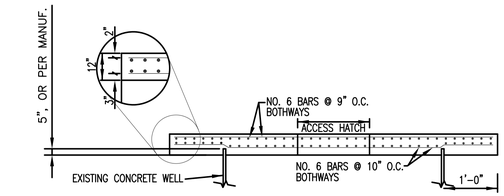


NOTE: CHECK VALVES TO BE WEIGHT AND LEVER TYPE.

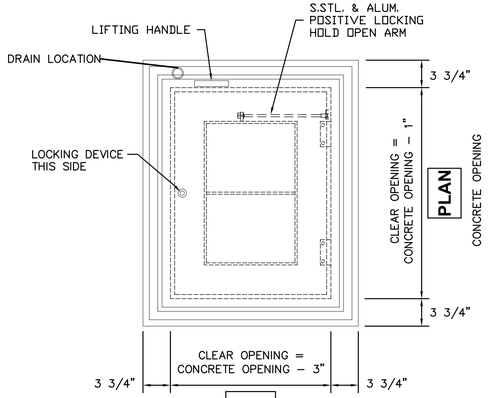
NOTE: CONTRACTOR TO PROVIDE 300 PSF NON-TRAFFIC HATCHES. CONTRACTOR TO VERIFY ACCESS HATCH SIZES ARE ADEQUATE. CONTRACTOR TO PROVIDE CALCULATIONS TO VERIFY LOAD CAPACITIES FOR HATCHES AND FIBERGLASS WELLS.

PROFILE – WET WELL
SCALE: N.T.S.

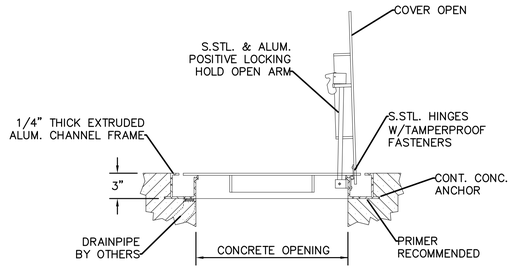
PROFILE– WET WELL
SCALE: N.T.S.



WET WELL
SLAB STRUCTURAL DETAILS
SCALE: N.T.S.



CONCRETE OPENING



SECTION

STATE OF LOUISIANA
STEVEN P. BREEDING
REG. No. 23247
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
04/10/25

SHEET NUMBER 05

ST. JOHN THE BAPTIST | ----- | 89091.14
PARISH | CITY | PROJECT

DESIGNED SPB | CHECKED ADS | DETAILED DBS | CHECKED ADS | DATE | SHEET | BY

REVISION DESCRIPTION | NO. | DATE

W 13TH MECHANICAL PLAN

WEST 13th STREET, WEST 8th STREET, AND EAST 13th STREET
LIFT STATION REHABILITATION

S:\CADD\89091\89091.14\005_W 13TH M-01.DWG

GENERAL NOTES:

1. THE TOPOGRAPHIC SURVEY UTILIZED THE LA STATE PLANE 1702 SOUTH COORDINATE SYSTEM FOR THE HORIZONTAL CONTROL AND THE SSO PROGRAM DATUM FOR THE VERTICAL CONTROL (GEOID 12A). THE PLANT MAIN CONTROL IS LISTED AS SIGMA 1-3 AND ARE BRASS DISK SET IN CONCRETE
2. UTILITIES WERE REQUESTED THROUGH LA ONE CALL AND AS-BUILTS PROVIDED BY UTILITY COMPANIES. ALL UTILITIES SHOULD BE VERIFIED IN THE FIELD BEFORE CONSTRUCTION
3. THIS SURVEY MAY NOT SHOW SERVITUDES OR RIGHT OF WAYS THAT EXIST.
4. DATE OF FIELD SURVEY

   ORIGINAL SUBMITTAL:
   REVISION ONE:

THIS SURVEY WAS DONE IN LOUISIANA STATE PLANE COORDINATE SYSTEM 1702 SOUTH ZONE, NAD 83, NAVD 88. PROJECT CONTROL WAS ESTABLISHED BASED ON STATIC GPS OBSERVATIONS SUBMITTED TO OPUS FOR POST PROCESSING.

UTILITIES WERE REQUESTED THROUGH LA ONE CALL AND AS-BUILTS PROVIDED BY UTILITY COMPANIES. ALL UTILITIES SHOULD BE VERIFIED IN THE FIELD BEFORE CONSTRUCTION.

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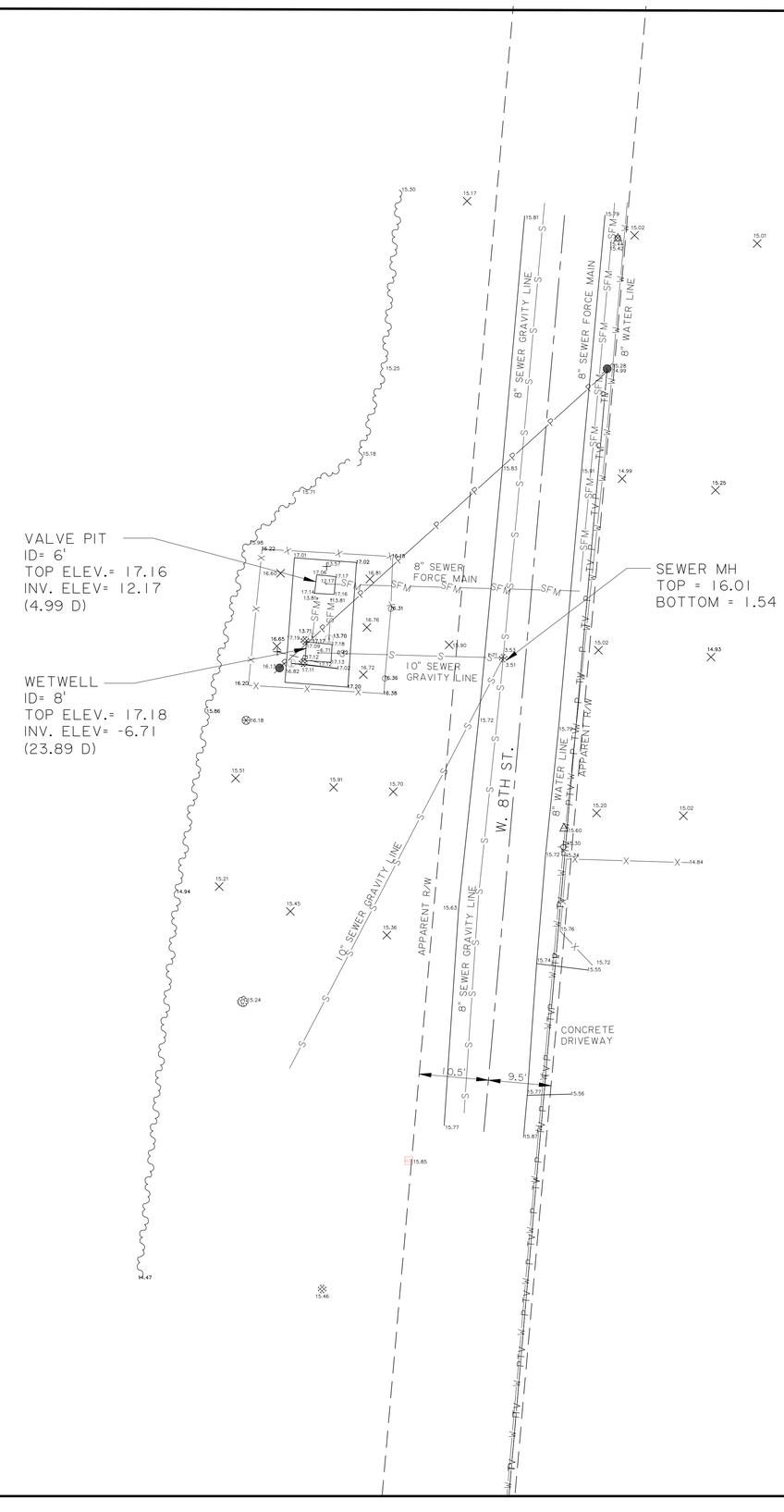
LEGEND – EXISTING TOPOGRAPHY

CONTROL POINT	△	**GAS LINE**	—G—G—
TEMPORARY BENCH MARK	BM	GAS METER	⊗
PHOTO TARGET	⊠	GAS SERVICE (NO METER)	⋈
PAVEMENT EDGE		GAS REGULATOR	GR
SHOULDER EDGE		GAS RISER	R
SLOPE TOE		GAS TEST BOX	GT
GUARDRAIL TOP	—o—o—	GAS VALVE	⊗H
HIGH BANK		GAS LINE/CASING	═G═G═
WATER'S EDGE		GAS VENT	⊗
HIGH WATER MARK	+	RAILROAD MILEPOST	MP
BOX CULVERT		RAILROAD SIGNAL	RR
PIPE CULVERT	═══	RAILROAD SWITCH	◒
CATCH BASIN TOP (ROUND)	⊕	RAILROAD TRACK	
DROP INLET TOP (ROUND)	◍	RR TRAFFIC SIGNAL BOX	SB
DRAINAGE MANHOLE TOP	⊗	SEWER LINE	—S—S—
LEVEE TOP		SEWER MANHOLE TOP	⊗
DITCH CENTERLINE		SEWER BLOWOUT VALVE	⊙
TREE		SEWER CLEANOUT	⊠
WOODS EDGE		SEPTIC TANK	○
MARSH LINE		SEWER PUMP (PRIVATE)	⊗H
SWAMP LINE		SEWER TREATMENT (INDIVIDUAL)	■
TREE CLUSTER		FEDERAL AID MARKER	F
HEDGE		TRAFFIC CONTROLLER BOX	TC
BUSH		TRAFFIC COUNTER	▼
TREE LINE		TRAFFIC SIGNAL	▽
FENCE LINE	—X—X—	TRAFFIC SIGNAL SUPPORT POLE	▼
GATE	—o—o—	LIGHT POLE	☼
CATTLE GUARD		LIGHT PEDESTAL	○
PROPERTY CORNER	●	LIGHT POWER VAULT	⊠
RIGHT OF WAY MONUMENT	⊠	TRAFFIC SIGN	S
SECTION CORNER	◕	PARKING METER	▯
FENCE CORNER	⊜	TELEPHONE POLE	○
TELEVISION CABLE	—TV—T—	TELEPHONE LINE	—T—T—
TELEVISION PEDESTAL	TV	TELEPHONE BOOTH	TB
POWER POLE	●	TELE CROSS CONNECT BOX	TX
DEADMAN	☽————	TELEPHONE PEDESTAL	□
POWER LINE	—P—P—	TELEPHONE PRESSURE BOX	◇
POWER JUNCTION BOX	P	WATER LINE	—W—W—
POWER VAULT	P	WATER LINE/CASING	═W═W═
TRANSFORMER	T	WATER CLEANOUT	W
COMBINATION POLE	◪	WATER METER	⊙
POWER DROP	●	WATER VALVE	⊗H
PIPELINE	—O—O—	WATER VALVE VAULT	⊠H
PIPELINE VENT	V	WATER WELL	▯
PIPELINE REGULATOR	OR	FIRE HYDRANT	●—
GAS WELL	G	BILLBOARD	∅—∅
HAY BALES	HB HB HB HB HB HB HB HB HB	FUEL PUMP	▯
SILT FENCE	—SF—SF—	POST	○
INLET SILT TRAP		SIGN POST	S
UNDERGROUND POWER LINE	———P———	STORAGE TANK (ROUND)	◯
FIBER OPTIC LINE	——F/O(B)———F/O(B)	GRAVE	⊢⊣
		MAILBOX	MB
		ORNAMENTAL LIGHT	☼
		FLAG POLE	⊙
		BORING	◕
		TELEPHONE FIBER OPTIC LINE	———TFO——



SCALE: 1" = 10'-0"

STATE OF LOUISIANA
STEVEN P. BREEDING
REG. No. 23247
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
04/10/25

SHEET NUMBER	06
PARISH	ST. JOHN THE BAPTIST
CITY	-----
PROJECT	89091.14
DESIGNED / CHECKED	SPB / ADS
DETAILED / CHECKED	DBS / ADS
DATE / SHEET	

NO.	DATE	REVISION DESCRIPTION	BY

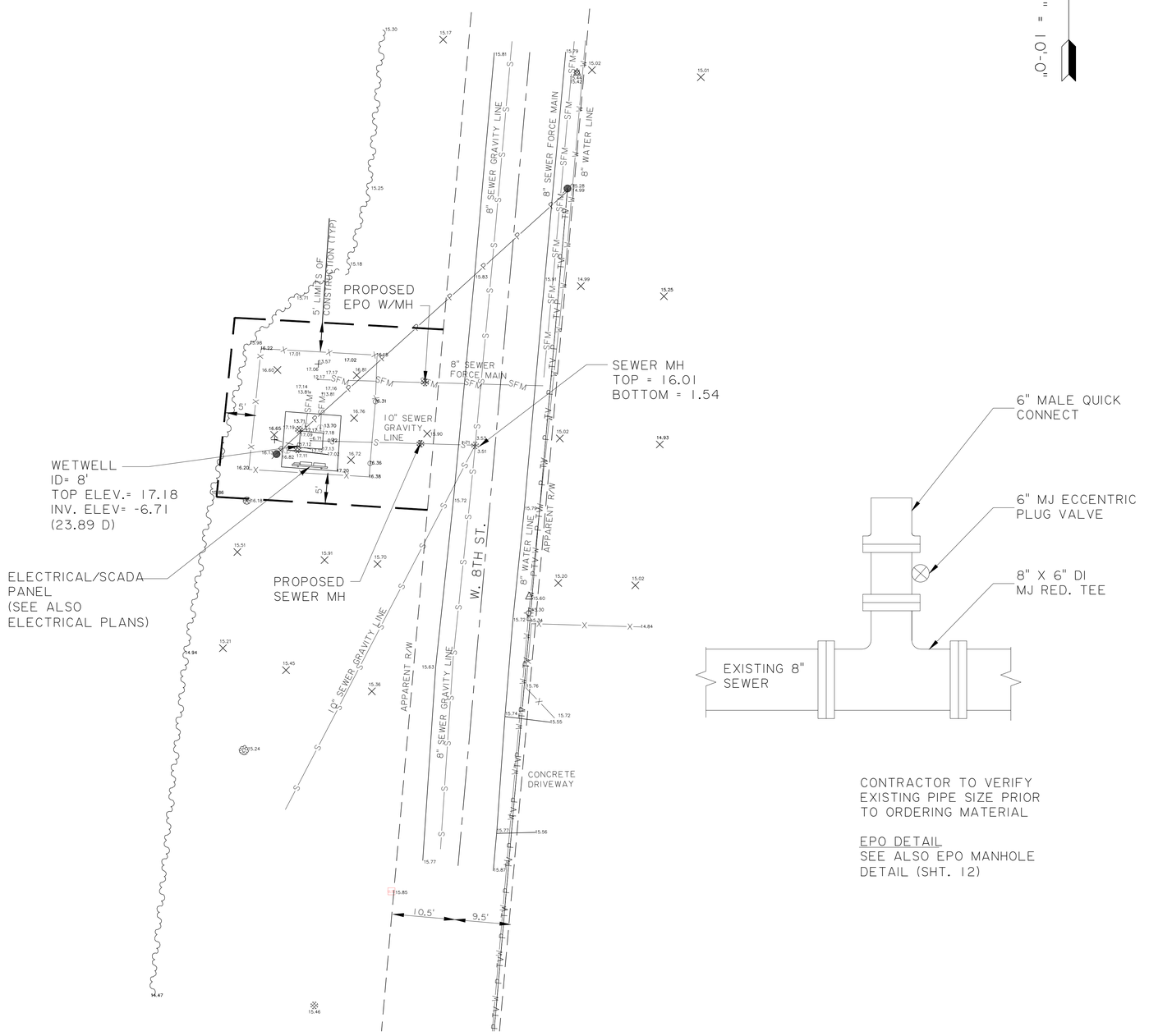
WEST 8TH STREET
EXISTING SITE PLAN

WEST 13th STREET, WEST 8th STREET, AND EAST 13th STREET
LIFT STATION REHABILITATION

S:\CADD\89091\89091.14\006_WEST 8TH LS-1-EXIST.DWG

PROPOSED SCOPE OF WORK

1) CONTRACTOR TO SETUP THE TRAFFIC SIGNS PER THE CONTRACTOR SUPPLIED AND ENGINEER/OWNER APPROVED TRAFFIC PLAN
2) INSTALL PROPOSED SEWER MANHOLE (FOR BYPASS PUMPING SUCTION)
3) INSTALL PROPOSED SEWER EPO WITH MANHOLE (FOR BYPASS PUMPING DISCHARGE)
4) CONTRACTOR TO BEGIN BYPASS PUMPING PER THE CONTRACTOR SUPPLIED AND ENGINEER/OWNER APPROVED BYPASS PUMPING PLAN
5) CONTRACTOR TO REMOVE ALL ELECTRICAL (SEE ELECTRICAL DRAWINGS) ITEMS NOT TO BE REUSED
6) CONTRACTOR TO REMOVE PUMPS, PIPING, VALVE PIT AS REQUIRED, AND DISPOSE OF IN A LEGAL FASHION
7) CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO PURCHASING EQUIPMENT
8) CONTRACTOR TO CLEAN OUT WET WELL AND COAT PER PLANS AND SPECIFICATIONS
9) CONTRACTOR TO INSTALL NEW WET WELL HATCH.
10) CONTRACTOR TO INSTALL PIPING, FITTINGS, AND ALL PUMP ACCESSORIES ACCORDING TO THE PLANS AND SPECIFICATIONS , AS WELL AS PER MANUFACTURER'S RECOMMENDATIONS
11) INSTALL ALL ELECTRICAL ITEMS PER THESE ELECTRICAL PLANS AND SPECIFICATIONS , AS WELL AS PER MANUFACTURER'S RECOMMENDATIONS
12) CONTRACTOR TO COORDINATE WITH THE ENGINEER/OWNER TO SCHEDULE STARTUP AND TESTING ALONG WITH A FINAL INSPECTION
13) COMPLETE ALL PUNCH LIST ITEMS, PERFORM FINAL CLEANUP OF SITE AND DEMOBILIZE



STATE OF LOUISIANA
STEVEN P. BREEDING
REG. No. 23247
REGISTERED PROFESSIONAL ENGINEER IN
CIVIL ENGINEERING
09/10/25

SHEET NUMBER	07
PARISH	ST. JOHN THE BAPTIST
CITY	-----
PROJECT	89091.14
DESIGNED	SPB
CHECKED	AOS
DETAILED	DBS
CHECKED	AOS
DATE	
SHEET	

NO.	REVISION DESCRIPTION	DATE	BY

WEST 8TH STREET
PROPOSED SITE PLAN

WEST 13TH STREET, WEST 8TH STREET, AND EAST 13TH STREET
LIFT STATION REHABILITATION

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SCHEDULE OF MECHANICAL ELEMENTS

ITEM No.	DESCRIPTION	SIZE L.S. No.
2	90° D.I. BEND (LR)	6"ø
3	D. I. PIPE	6"ø
4	SUBMERSIBLE PUMP (2 REQ'D.)	25 H.P.
5	45° D.I. BEND (LR)	6"ø
6	OFFSET	6"ø
9	GATE VALVE	6"ø
10	WAFER CHECK VALVE	6"ø
11	8X6 MJ REDUCER	
12	WET WELL HINGED COVER ("A" x "B") ■	36"x54"
14	D.I. SPOOL PIECE (FLANGE X PLAIN END)	6"ø
15	PVC CONDUIT (SCH. 80) TO CONTROL PANEL	
16	PVC CONDUITS (SCH. 80) TO CONTROL PANEL (2 REQ'D.)	
17	PUMP POWER CABLE	2 REQ'D
18	S. S. GUIDE RAIL	4 REQ'D
19	S. S. CABLE HOLDER	2 REQ'D
20	S. S. GUIDE BRACKET	2 REQ'D
21	S. S. LIFT CABLE	2 REQ'D
22	LINK & SEAL	PLAN
25	D.I. 6" X 6" WYE	6"ø

■ OR AS PER MANUFACTURERS RECOMMENDATIONS

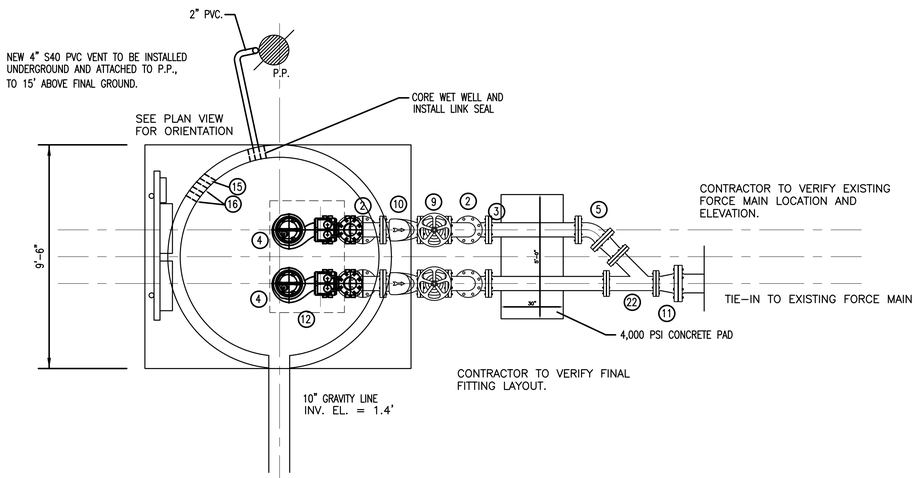
NOTE: ALL PIPE/FITTINGS TO BE RESTRAINED

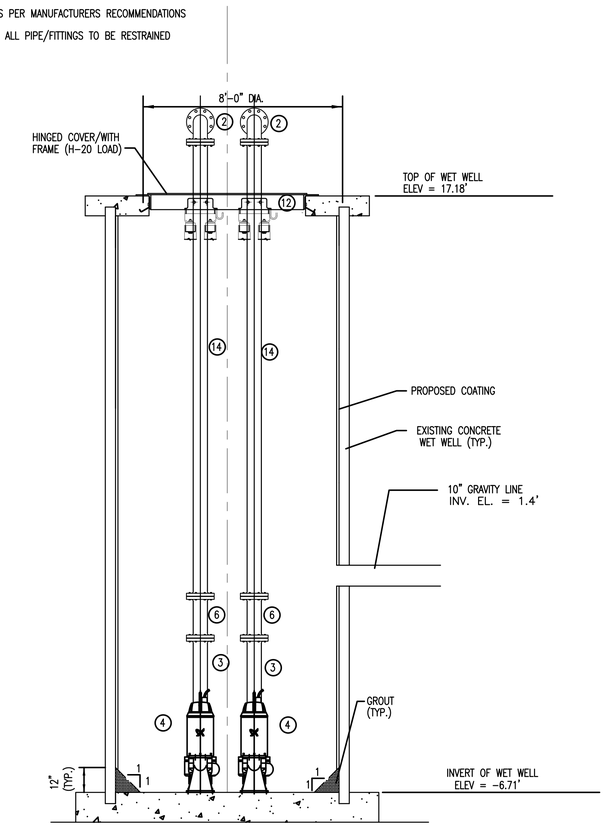
PUMP DATA TABLE

PUMP STATION NUMBER	W. 8TH
APPROVED PUMP MANUFACTURER	GRUNDFOS
PUMP MODEL NUMBER	SE1.30.A60.200.4.52H.C.EX.61.R.
PUMP SERIAL NOS.	
PUMP MOTOR	460V, 3 PHASE, 60 Hz
NUMBER OF PUMPS	2
TYPE OF DRIVE	VFD'S
DESIGN CAPACITY, GPM	815 GPM
TOTAL DYNAMIC HEAD, FT.	62'
MIN. EFF. AT DESIGN CAPACITY, %	77%
DESIGN SPEED, R.P.M.	1760
MIN HORSEPOWER/PUMP	25
MAX SIZE SOLIDS, IN.	3
DISCHARGE SIZE, IN.	6

LIFTING BALL REQ'D. FOR PUMPS

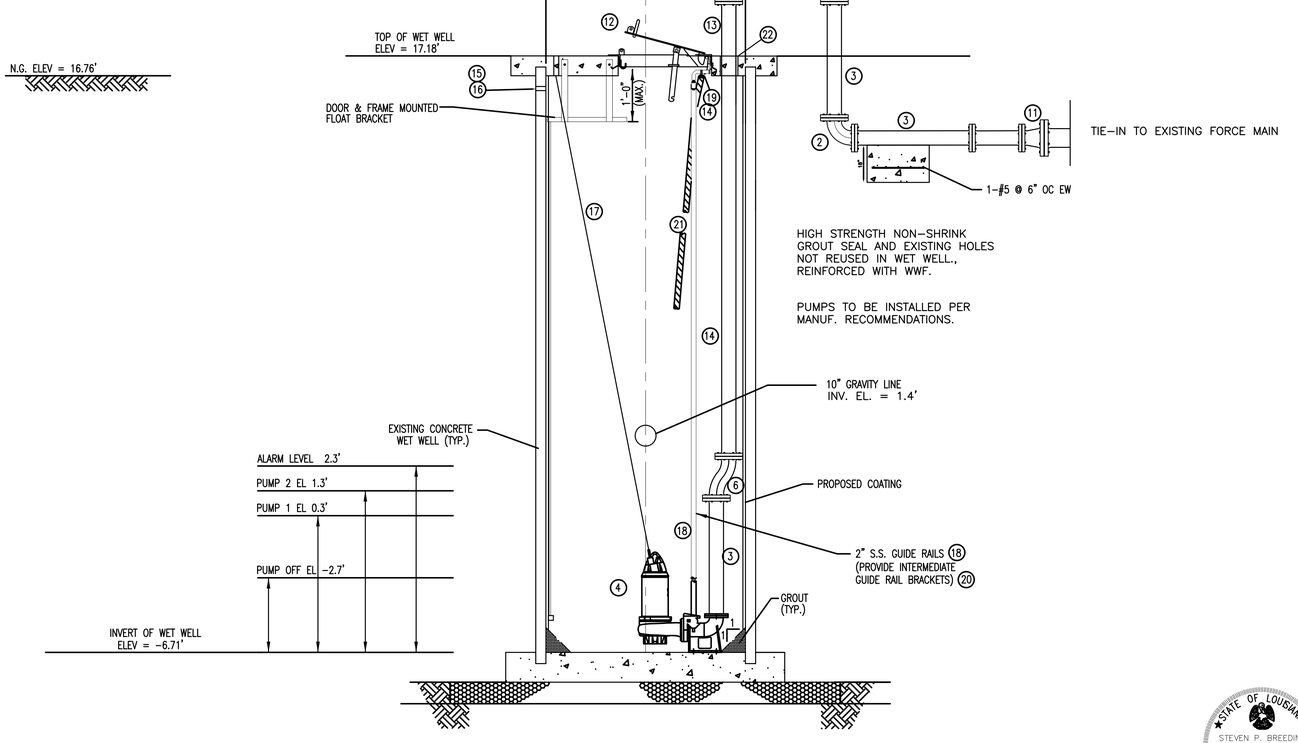
SEE ALSO SPECIFICATIONS FOR PUMP CAPACITY.





PROFILE – WET WELL

SCALE: N.T.S.



PROFILE– WET WELL

SCALE: N.T.S.

STATE OF LOUISIANA
STEVEN P. BREEDING
REG. No. 23247
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
09/10/25

SHEET NUMBER 08

PARISH: ST. JOHN THE BAPTIST | CITY: ----- | PROJECT: 89091.14

DESIGNED SPB | CHECKED ADS | DETAILED DBS | CHECKED ADS | DATE | SHEET

NO.	DATE	REVISION DESCRIPTION	BY

ST. JOHN THE BAPTIST PARISH ★ LOUISIANA ★ 1807

W. 8TH MECHANICAL PLAN

WEST 1.3rd STREET, WEST 8th STREET, AND EAST 1.3rd STREET LIFT STATION REHABILITATION

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GENERAL NOTES:

1. THE TOPOGRAPHIC SURVEY UTILIZED THE LA STATE PLANE 1702 SOUTH COORDINATE SYSTEM FOR THE HORIZONTAL CONTROL AND THE SSO PROGRAM DATUM FOR THE VERTICAL CONTROL (GEOID 12A). THE PLANT MAIN CONTROL IS LISTED AS SIGMA 1–3 AND ARE BRASS DISK SET IN CONCRETE
2. UTILITIES WERE REQUESTED THROUGH LA ONE CALL AND AS–BUILTS PROVIDED BY UTILITY COMPANIES. ALL UTILITIES SHOULD BE VERIFIED IN THE FIELD BEFORE CONSTRUCTION
3. THIS SURVEY MAY NOT SHOW SERVITUDES OR RIGHT OF WAYS THAT EXIST.
4. DATE OF FIELD SURVEY

   ORIGINAL SUBMITTAL:
   REVISION ONE:

THIS SURVEY WAS DONE IN LOUISIANA STATE PLANE COORDINATE SYSTEM 1702 SOUTH ZONE, NAD 83, NAVD 88. PROJECT CONTROL WAS ESTABLISHED BASED ON STATIC GPS OBSERVATIONS SUBMITTED TO OPUS FOR POST PROCESSING.

UTILITIES WERE REQUESTED THROUGH LA ONE CALL AND AS–BUILTS PROVIDED BY UTILITY COMPANIES. ALL UTILITIES SHOULD BE VERIFIED IN THE FIELD BEFORE CONSTRUCTION.

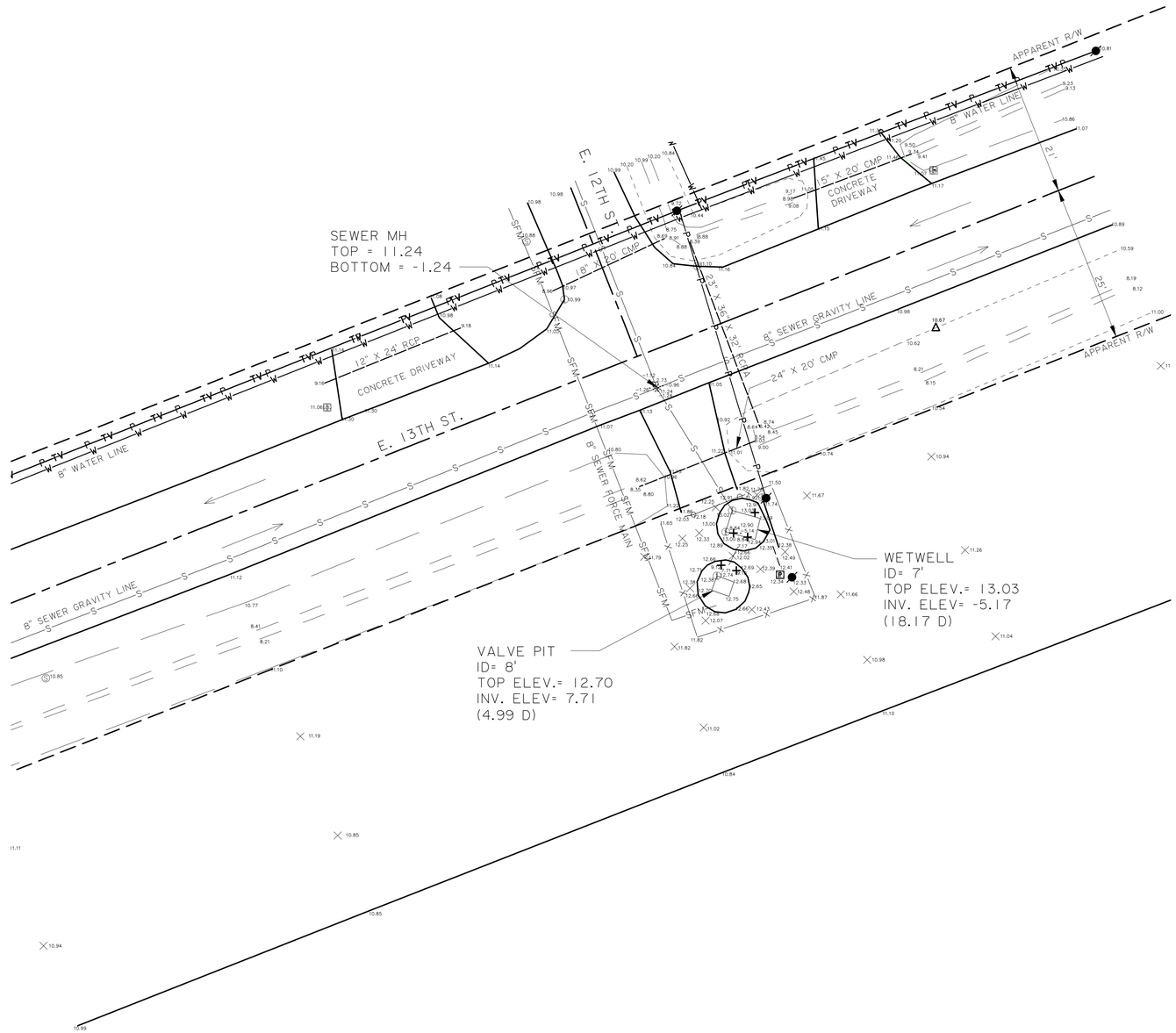
THIS SURVEY IS NOT A PROPERTY SURVEY AND DOES NOT CONFORM TO THE LOUISIANA REVISED STATUES FOR THE STANDARDS OF PRACTICE FOR BOUNDARY SURVEYS. THIS SURVEY MAY NOT SHOW ALL SERVITUDES OR RIGHT OF WAYS THAT EXIST.

LEGEND – EXISTING TOPOGRAPHY

- CONTROL POINT
- TEMPORARY BENCH MARK
- PHOTO TARGET
- PAVEMENT EDGE
- SHOULDER EDGE
- SLOPE TOE
- GUARDRAIL TOP
- HIGH BANK
- WATER'S EDGE
- HIGH WATER MARK
- BOX CULVERT
- PIPE CULVERT
- CATCH BASIN TOP (ROUND)
- DROP INLET TOP (ROUND)
- DRAINAGE MANHOLE TOP
- LEVEE TOP
- DITCH CENTERLINE
- TREE
- WOODS EDGE
- MARSH LINE
- SWAMP LINE
- TREE CLUSTER
- HEDGE
- BUSH
- TREE LINE
- FENCE LINE
- GATE
- CATTLE GUARD
- PROPERTY CORNER
- RIGHT OF WAY MONUMENT
- SECTION CORNER
- FENCE CORNER
- TELEVISION CABLE
- TELEVISION PEDESTAL
- POWER POLE
- DEADMAN
- POWER LINE
- POWER JUNCTION BOX
- POWER VAULT
- TRANSFORMER
- COMBINATION POLE
- POWER DROP
- PIPELINE
- PIPELINE VENT
- PIPELINE REGULATOR
- GAS WELL
- HAY BALES
- SILT FENCE
- INLET SILT TRAP
- UNDERGROUND POWER LINE
- FIBER OPTIC LINE

- **GAS LINE**
- GAS METER
- GAS SERVICE (NO METER)
- GAS REGULATOR
- GAS RISER
- GAS TEST BOX
- GAS VALVE
- GAS LINE/CASING
- GAS VENT
- RAILROAD MILEPOST
- RAILROAD SIGNAL
- RAILROAD SWITCH
- RAILROAD TRACK
- RR TRAFFIC SIGNAL BOX
- SEWER LINE
- SEWER MANHOLE TOP
- SEWER BLOWOUT VALVE
- SEWER CLEANOUT
- SEPTIC TANK
- SEWER PUMP (PRIVATE)
- SEWER TREATMENT (INDIVIDUAL)
- FEDERAL AID MARKER
- TRAFFIC CONTROLLER BOX
- TRAFFIC COUNTER
- TRAFFIC SIGNAL
- TRAFFIC SIGNAL SUPPORT POLE
- LIGHT POLE
- LIGHT PEDESTAL
- LIGHT POWER VAULT
- TRAFFIC SIGN
- PARKING METER
- TELEPHONE POLE
- TELEPHONE LINE
- TELEPHONE BOOTH
- TELE CROSS CONNECT BOX
- TELEPHONE PEDESTAL
- TELEPHONE PRESSURE BOX
- WATER LINE
- WATER LINE/CASING
- WATER CLEANOUT
- WATER METER
- WATER VALVE
- WATER VALVE VAULT
- WATER WELL
- FIRE HYDRANT
- BILLBOARD
- FUEL PUMP
- POST
- SIGN POST
- STORAGE TANK (ROUND)
- GRAVE
- MAILBOX
- ORNAMENTAL LIGHT
- FLAG POLE
- BORING
- TELEPHONE FIBER OPTIC LINE

SCALE: 1" = 10'-0"



SHEET NUMBER	09
ST. JOHN THE BAPTIST	
PARISH	CITY
PROJECT	89091.14
DESIGNED SPB	
CHECKED ADS	
DETAILED DBS	
CHECKED ADS	
DATE	
SHEET	
BY	
REVISION DESCRIPTION	
NO.	
DATE	

EAST 13TH STREET
EXISTING SITE PLAN

WEST 13TH STREET, WEST 8TH STREET, AND EAST 13TH STREET LIFT STATION REHABILITATION

STATE OF LOUISIANA
STEVEN P. BREEDING
REG. No. 23247
REGISTERED PROFESSIONAL ENGINEER IN
CIVIL ENGINEERING
04/10/25

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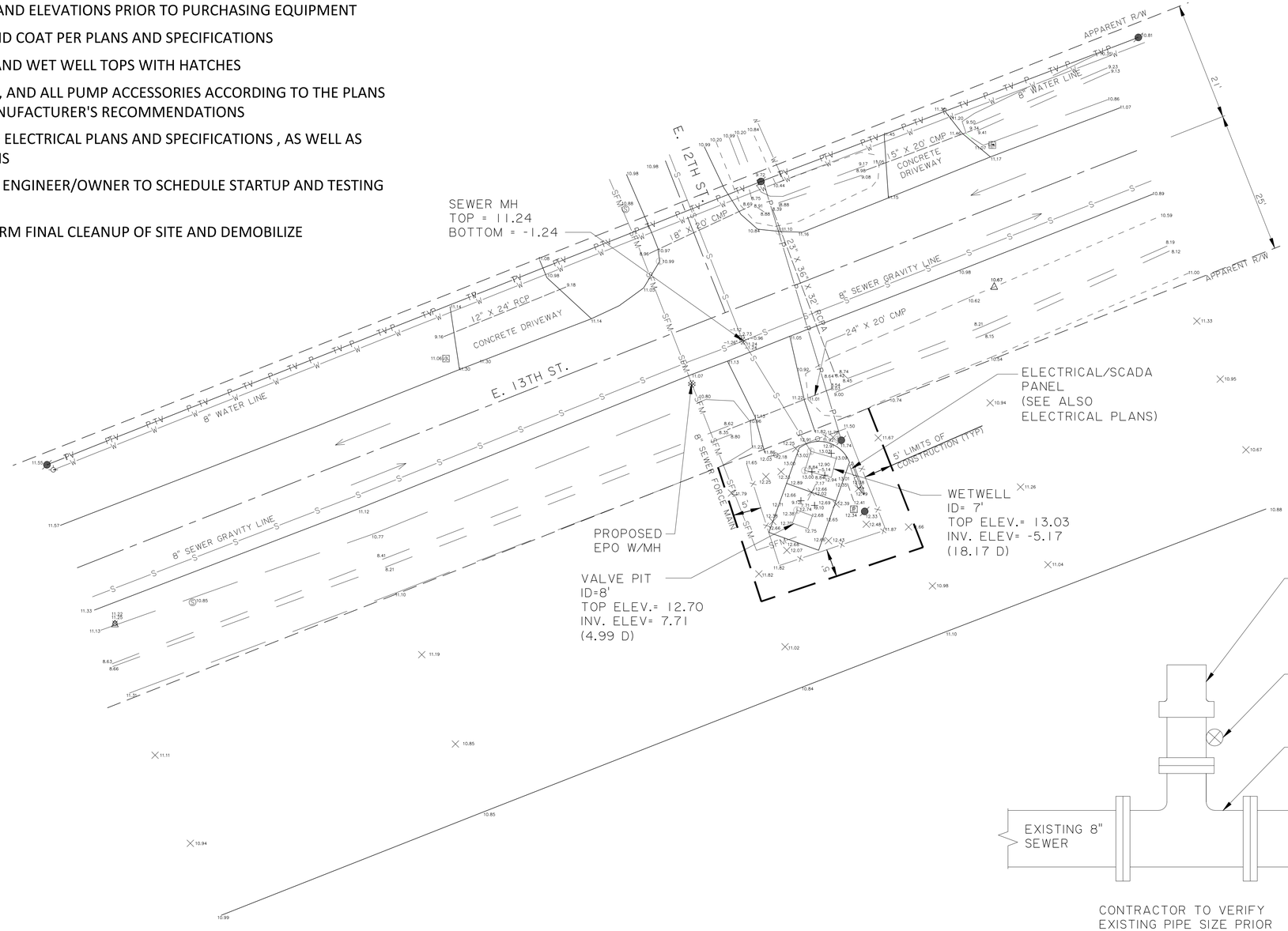
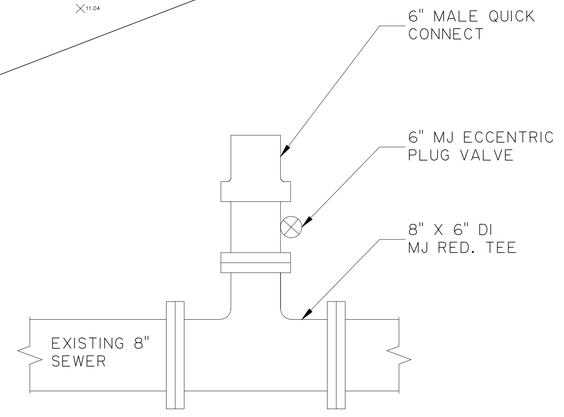
PROPOSED SCOPE OF WORK

1) CONTRACTOR TO SETUP THE TRAFFIC SIGNS PER THE CONTRACTOR SUPPLIED AND ENGINEER/OWNER APPROVED TRAFFIC PLAN
2) INSTALL PROPOSED SEWER EPO W/MANHOLE (FOR BYPASS PUMPING DISCHARGE)
3) CONTRACTOR TO BEGIN BYPASS PUMPING PER THE CONTRACTOR SUPPLIED AND ENGINEER/OWNER APPROVED BYPASS PUMPING PLAN
4) CONTRACTOR TO REMOVE ALL ELECTRICAL (SEE ELECTRICAL DRAWINGS) ITEMS NOT TO BE REUSED
5) CONTRACTOR TO REMOVE PUMPS, PIPING, AND TOP SLABS AND DISPOSE OF IN A LEGAL FASHION
6) CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO PURCHASING EQUIPMENT
7) CONTRACTOR TO CLEAN OUT WET WELL AND COAT PER PLANS AND SPECIFICATIONS
8) CONTRACTOR TO INSTALL NEW VALVE PIT AND WET WELL TOPS WITH HATCHES
9) CONTRACTOR TO INSTALL PIPING, FITTINGS, AND ALL PUMP ACCESSORIES ACCORDING TO THE PLANS AND SPECIFICATIONS , AS WELL AS PER MANUFACTURER'S RECOMMENDATIONS
10) INSTALL ALL ELECTRICAL ITEMS PER THESE ELECTRICAL PLANS AND SPECIFICATIONS , AS WELL AS PER MANUFACTURER'S RECOMMENDATIONS
11) CONTRACTOR TO COORDINATE WITH THE ENGINEER/OWNER TO SCHEDULE STARTUP AND TESTING ALONG WITH A FINAL INSPECTION
12) COMPLETE ALL PUNCH LIST ITEMS, PERFORM FINAL CLEANUP OF SITE AND DEMOBILIZE

SCALE: 1" = 10'-0"





CONTRACTOR TO VERIFY EXISTING PIPE SIZE PRIOR TO ORDERING MATERIAL

EPO DETAIL
SEE ALSO EPO MANHOLE DETAIL (SHT. 12)

STATE OF LOUISIANA
STEVEN P. BREEDING
REG. No. 23247
REGISTERED PROFESSIONAL ENGINEER IN
CIVIL ENGINEERING
04/10/25

SHEET NUMBER 10

ST. JOHN THE BAPTIST | PARISH | CITY | PROJECT 89091.14

DESIGNED SPB | CHECKED ADS | DETAILED DBS | CHECKED ADS | DATE | SHEET

NO.	REVISION DESCRIPTION	BY	DATE

EAST 13TH STREET
PROPOSED SITE PLAN

WEST 13th STREET, WEST 8th STREET,
AND EAST 13th STREET
LIFT STATION REHABILITATION

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SCHEDULE OF MECHANICAL ELEMENTS

ITEM No.	DESCRIPTION	SIZE L.S. No.
2	90° D.I. BEND (LR)	4"ø
3	D. I. PIPE	4"ø
4	SUBMERSIBLE PUMP (2 REQ'D.)	5 H.P.
9	GATE VALVE	4"ø
10	CHECK VALVE	4"ø
12	WET WELL HINGED COVER ("A" x "B") ■	36"x54"
13	WET WELL HINGED COVER ("A" x "B") ■	48"X48"
14	D.I. SPOOL PIECE (FLANGE X PLAIN END)	4"ø
15	CONDUIT TO CONTROL PANEL	
16	CONDUITS TO CONTROL PANEL	
17	PUMP POWER CABLE	2 REQ'D
18	S. S. GUIDE RAIL	4 REQ'D
19	S. S. CABLE HOLDER	2 REQ'D
20	S. S. GUIDE BRACKET	2 REQ'D
21	S. S. LIFT CABLE	2 REQ'D
22	LINK & SEAL	PLAN
25	D.I. 4" X 4" TEE	4"ø
26	3" DUCKBILL CHECK VALVE	3"ø

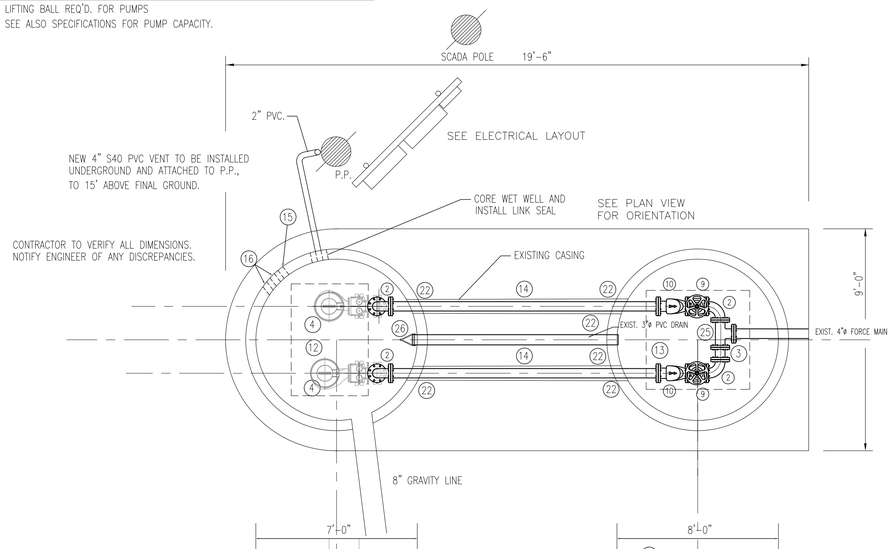
■ OR AS PER MANUFACTURERS RECOMMENDATIONS

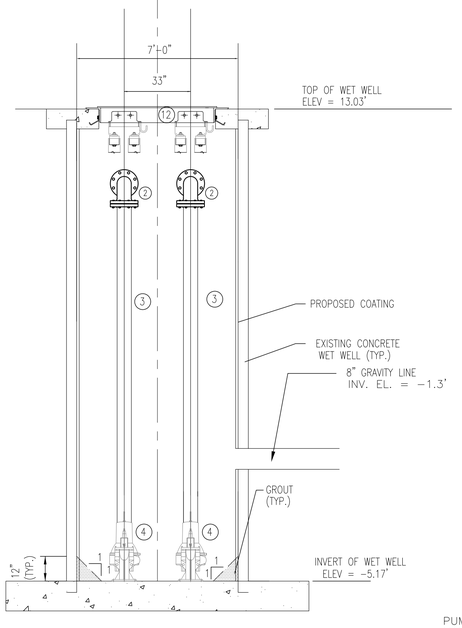
NOTE: ALL PIPE/FITTINGS TO BE RESTRAINED

PUMP DATA TABLE

PUMP STATION NUMBER	E. 13TH
APPROVED PUMP MANUFACTURER	GRUNDFOS
PUMP MODEL NUMBER	SL1.30.A40 .55.EX.4.61.R.C.
PUMP SERIAL NOS.	
PUMP MOTOR	230V, 3 PHASE, 60 Hz
NUMBER OF PUMPS	2
TYPE OF DRIVE	CONSTANT SPEED
DESIGN CAPACITY, GPM	370 GPM
TOTAL DYNAMIC HEAD, FT.	29'
MIN. EFF. AT DESIGN CAPACITY, %	66%
DESIGN SPEED, R.P.M.	1760
MIN HORSEPOWER/PUMP	5
MAX SIZE SOLIDS, IN.	3
DISCHARGE SIZE, IN.	4

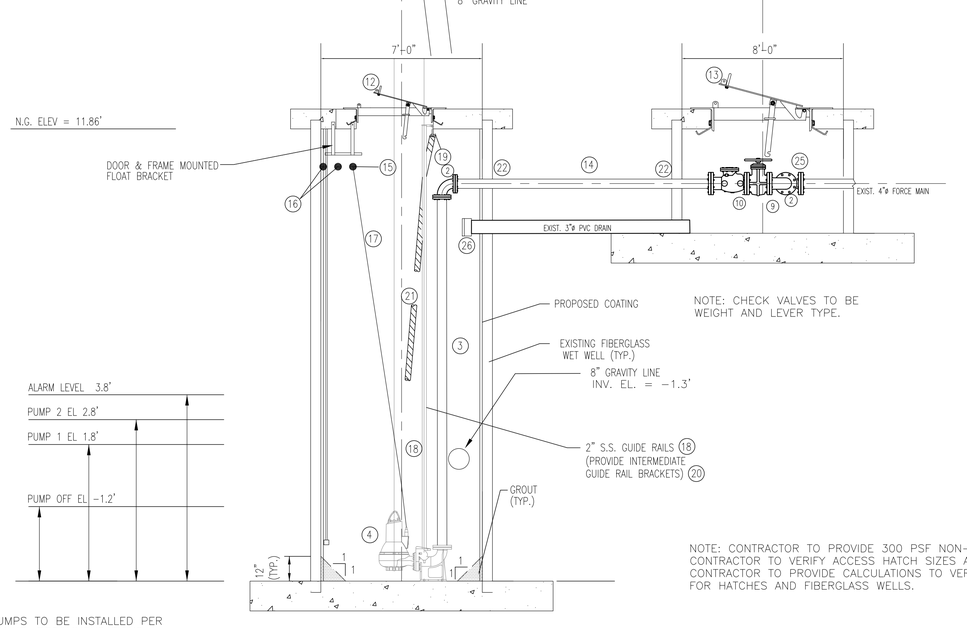
LIFTING BALL REQ'D. FOR PUMPS
SEE ALSO SPECIFICATIONS FOR PUMP CAPACITY.





PROFILE – WET WELL

SCALE: N.T.S.



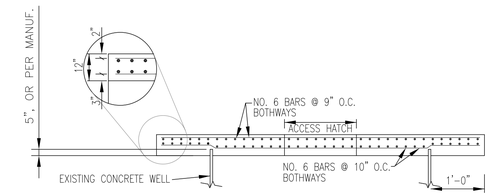
PUMPS TO BE INSTALLED PER MANUF. RECOMMENDATIONS.

NOTE: CHECK VALVES TO BE WEIGHT AND LEVER TYPE.

NOTE: CONTRACTOR TO PROVIDE 300 PSF NON-TRAFFIC HATCHES. CONTRACTOR TO VERIFY ACCESS HATCH SIZES ARE ADEQUATE. CONTRACTOR TO PROVIDE CALCULATIONS TO VERIFY LOAD CAPACITIES FOR HATCHES AND FIBERGLASS WELLS.

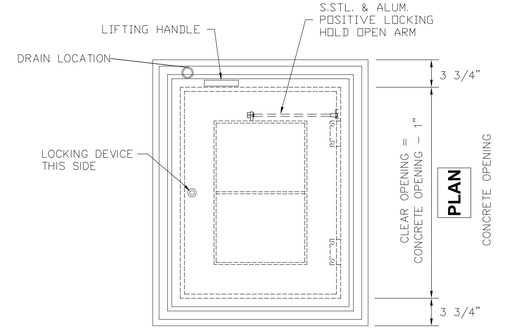
PROFILE– WET WELL

SCALE: N.T.S.

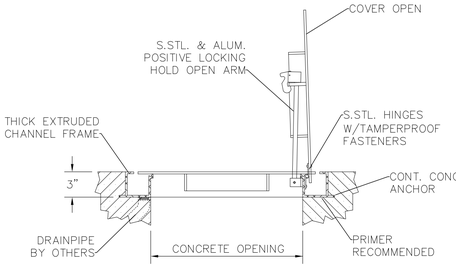


WET WELL SLAB STRUCTURAL DETAILS

SCALE: N.T.S.



CONCRETE OPENING



SECTION

STATE OF LOUISIANA
STEVEN P. BREEDING
REG. No. 23247
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
04/10/25

SHEET NUMBER	11

PARISH	CITY	PROJECT
ST. JOHN THE BAPTIST	-----	89091.14

DESIGNED	SPB	
CHECKED	ADS	
DETAILED	DBS	
CHECKED	ADS	
DATE		
SHEET		

NO.	REVISION DESCRIPTION	DATE	BY

E. 13TH MECHANICAL PLAN

WEST 13th STREET, WEST 8th STREET, AND EAST 13th STREET
LIFT STATION REHABILITATION

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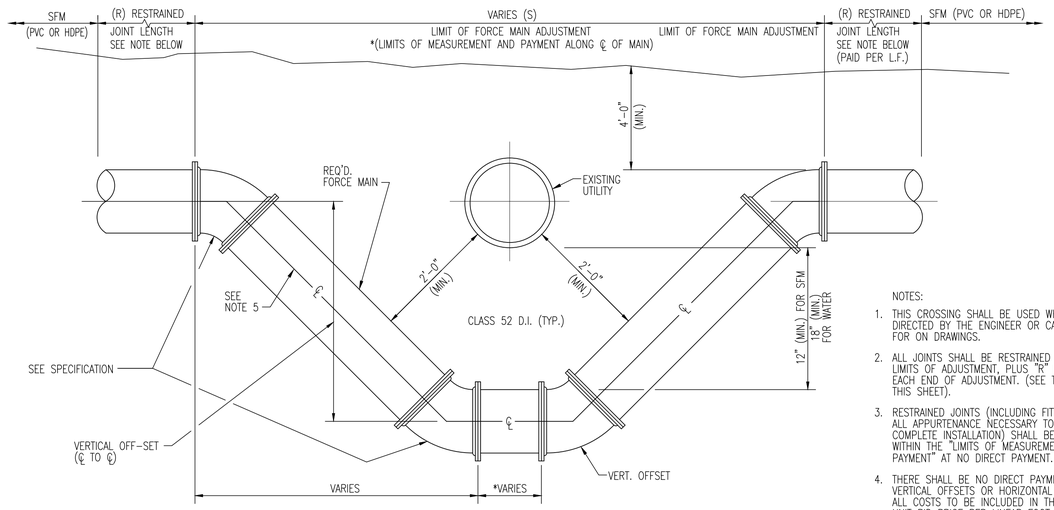


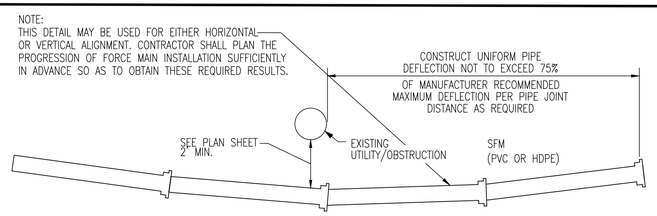
* RESTRAINED JOINT PIPE OR F.M. PAID FOR BY THE LINEAR FOOT (ACTUAL C LENGTH).

OFFSET TYPE
FORCE MAIN LINE ADJUSTMENT

SCALE: N.T.S.

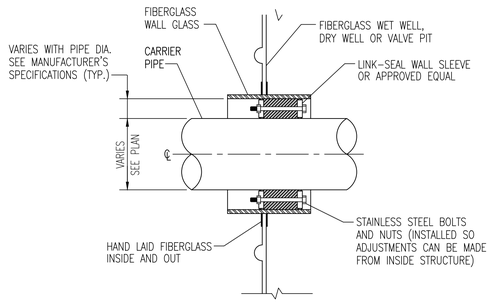
NOTES:

1. THIS CROSSING SHALL BE USED WHEN DIRECTED BY THE ENGINEER OR CALLED FOR ON DRAWINGS.
2. ALL JOINTS SHALL BE RESTRAINED WITHIN LIMITS OF ADJUSTMENT, PLUS "R" FEET ON EACH END OF ADJUSTMENT. (SEE TABLE THIS SHEET).
3. RESTRAINED JOINTS (INCLUDING FITTINGS AND ALL APPURTENANCE NECESSARY TO FURNISH COMPLETE INSTALLATION) SHALL BE INSTALLED WITHIN THE "LIMITS OF MEASUREMENT AND PAYMENT" AT NO DIRECT PAYMENT.
4. THERE SHALL BE NO DIRECT PAYMENT FOR VERTICAL OFFSETS OR HORIZONTAL OFFSETS. ALL COSTS TO BE INCLUDED IN THE CONTRACTOR'S UNIT BID PRICE PER LINEAR FOOT FOR THE PARTICULAR PIPE INSTALLED.
5. MEASUREMENT FOR PAYMENT SHALL BE ALONG THE TOP CENTERLINE OF THE FORCE MAIN. THIS LENGTH SHALL BE BASED ON ACTUAL DIMENSIONS.
6. WHENEVER PVC PIPE IS USED, IT IS REQUIRED TO INSTALL CLASS 52 DUCTILE IRON PIPE WITHIN DIMENSIONS "S". MEASUREMENT AND PAYMENT AS PER NOTE 5 ABOVE. IT SHALL BE PAID AT THE CONTRACTOR'S UNIT BID PRICE FOR THE PARTICULAR SIZE OF DUCTILE IRON PIPE INSTALLED PER LINEAR FOOT.



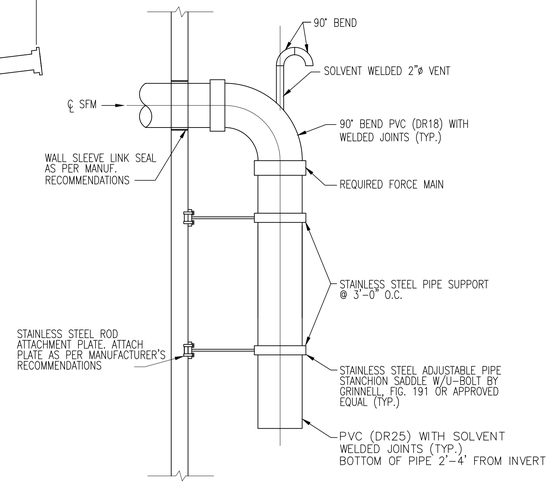
DEFLECTION TYPE
FORCE MAIN LINE ADJUSTMENT

SCALE: N.T.S.



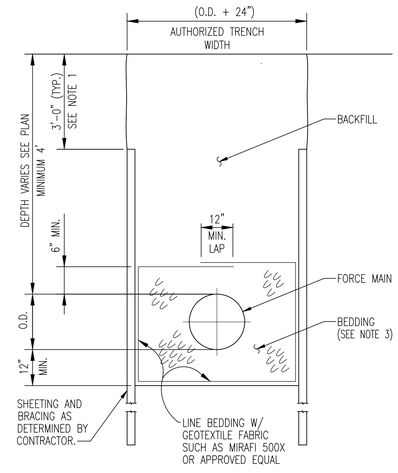
FIBERGLASS WALL PENETRATION
CLOSURE DETAIL

SCALE: N.T.S.



DISCHARGE LINE SUPPORT

SCALE: N.T.S.



PIPE BEDDING

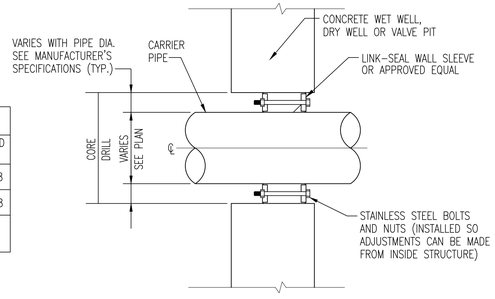
SCALE: N.T.S.

NOTES:

1. TRENCH SHEETING STRUTS AND STRINGERS FOR THE VARIOUS BEDDING TYPES SHALL BE DETERMINED BY THE CONTRACTOR BASED ON FIELD AND SOIL CONDITIONS. SHEETING, STRUTS, AND STRINGERS SHOWN IN BEDDING DETAILS ARE FOR ILLUSTRATIVE PURPOSES ONLY AND IN NO WAY SHOULD BE INTERPRETED BY THE CONTRACTOR AS A BASIS FOR DESIGN. WOOD SHEETING, WHEN USED, SHALL BE CUT OFF TO A MINIMUM OF 3' BELOW GRADE AND LEFT IN PLACE. NO WOOD SHEETING IS TO BE PULLED FROM THE GROUND.
2. STEEL SHEETING FOR PIPE TRENCH WHEN DETERMINED BY CONTRACTOR OR AS REQ'D. BY THE ENGINEER MAY BE REMOVED UPON COMPLETION OF BACKFILL OPERATIONS. STEEL SHEETING WITHIN ROADWAYS OR ADJACENT TO EXISTING STRUCTURES SHALL REMAIN IN PLACE. CUT OFF 3' BELOW EXIST. GRADE.
3. THE CRUSHED LIMESTONE WHICH IS PROPOSED TO BE USED FOR THE PIPE FOUNDATION, BEDDING, HAUNCHING AND INITIAL BACKFILL ALONG WITH THE PROPOSED GEOTEXTILE FABRIC SHALL NOT BE SUBJECT TO ANY FIELD OR PLAN CHANGE AFTER BID PROCESS IS FINALIZED. CLAY DAMS SHALL BE SPECIFIED EVERY 200 FEET TO ISOLATE SECTIONS OF PIPELINE, AND SHALL BE A MINIMUM 5' LONG.
4. PIPE BEDDING FOR ALL PIPES (P.V.C., H.D.P.E., D.I.) SHALL BE AS REQUIRED ABOVE.
5. ALL COSTS TO BE INCLUDED IN THE CONTRACTOR'S UNIT BID PRICE FOR EACH PARTICULAR PIPE.

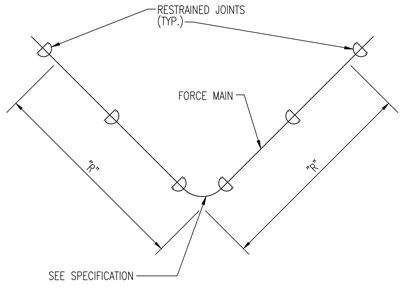
TABLE OF COMPACTION REQUIREMENTS FOR PIPE INSTALLATION

TYPE	MATERIAL	DEGREE OF COMPACTION	MAXIMUM LIFTS	REFERENCED STANDARD
BEDDING	CRUSHED CONC. OR CRUSHED LIMESTONE	95% MAX. DRY DENSITY	8"	ASTM D-698
BACKFILL UNDER PAVED AREAS	RIVER SAND	95% MAX. DRY DENSITY	8"	ASTM D-698
BACKFILL UNDER NONPAVED AREAS	SELECT NATIVE MATERIAL	MECH. COMPACTION TO APPROX. DENSITY OF ADJACENT SOILS	8"	NONE



CONCRETE WALL PENETRATION
CLOSURE DETAIL

SCALE: N.T.S.



NOTES:

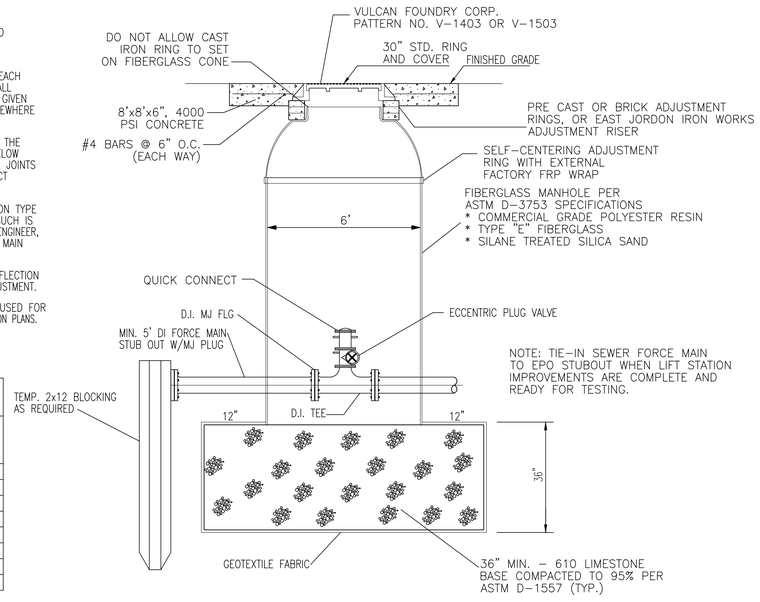
1. RESTRAINED JOINT PIPE SHALL BE USED AT ALL BENDS, VALVES AND FITTINGS. REFER TO SPECIFICATION FOR DETAILS.
2. THE LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE FITTINGS AND VALVES SHALL BE NOT LESS THAN THE "R" DISTANCE GIVEN BELOW UNLESS STATED OTHERWISE ELSEWHERE ON THESE PLANS.
3. THE FIRST JOINT OF THE PIPE BEYOND THE DISTANCE "R" SHOWN IN THE TABLE BELOW SHALL BE RESTRAINED ALONG WITH ALL JOINTS WITHIN THE DISTANCE "R", AT NO DIRECT PAYMENT.
4. CONTRACTOR SHALL USE THE DEFLECTION TYPE FORCE MAIN ADJUSTMENT DETAILS. IF SUCH IS NOT POSSIBLE, AND UPON APPROVAL OF ENGINEER, HE MAY USE THE OFFSET TYPE FORCE MAIN ADJUSTMENT DETAIL.
5. THERE IS NO DIRECT PAYMENT FOR DEFLECTION TYPE ADJUSTMENT OR OFFSET TYPE ADJUSTMENT.
6. THE MINIMUM DISTANCE (R) SHALL BE USED FOR RESTRAINED JOINT UNLESS NOTED OTHERWISE ON PLANS.

MINIMUM DISTANCE (R) FOR HORIZONTAL BENDS OR VERTICAL OFFSETS

PIPE DIAMETER	"R" FOR 11 1/4° BEND (FT.)	"R" FOR 22 1/2° BEND (FT.)	"R" FOR 45° BEND (FT.)	"R" FOR 90° BEND & FITTINGS (FT.)
4"	3	6	15	35
6"	3	7	15	42
8"	4	10	20	55
10"	7	14	28	68
12"	7	14	28	80
16"	10	18	50	120
18"	14	24	55	145
24"	20	30	65	155

FORCE MAIN HORIZONTAL &
VERTICAL OFFSET MINIMUM DISTANCE (R)

SCALE: N.T.S.



EPO MANHOLE DETAIL

SCALE: N.T.S.

NOTE:

FIBERGLASS MANHOLE TO BE DESIGNED TO LOADING CONDITIONS AS PER WET WELL CONTINUOUS LOADING. BACKFILL TO BE PLACED IN MAX. 1' LIFTS TO BE COMPACTED TO 95% MAX. DRY DENSITY.

STATE OF LOUISIANA
STEVEN P. BREEDING
REG. No. 23247
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
04/10/25

SHEET NUMBER 12

ST. JOHN THE BAPTIST | ----- | 89091.14
PARISH | CITY | PROJECT

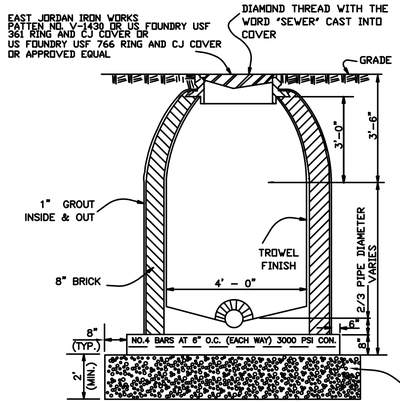
DESIGNED SPB
CHECKED ADS
DETAILED DBS
CHECKED ADS
DATE
SHEET

BY | REVISION DESCRIPTION | NO. | DATE

ST. JOHN THE BAPTIST PARISH, LOUISIANA

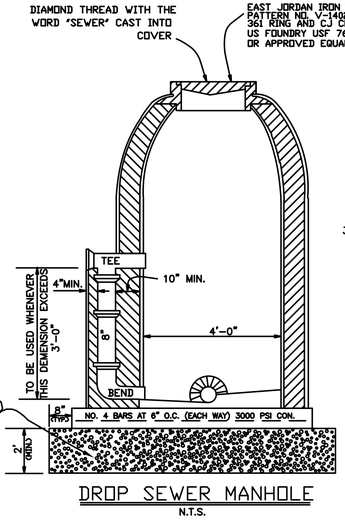
MISCELLANEOUS DETAILS
SEWER FORCE MAIN
WEST 13th STREET, WEST 8th STREET, AND EAST 13th STREET
LIFT STATION REHABILITATION

S:\CADD\89091\89091.14\012_MISC DETAILS-SEWER.DWG



STANDARD SEWER MANHOLE

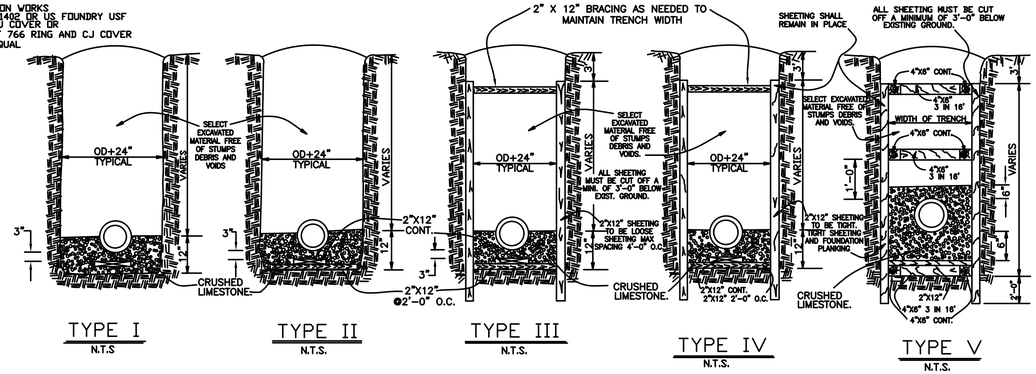
N.T.S.



DROP SEWER MANHOLE

N.T.S.

NOTE: PRE-FABRICATED CONCRETE MANHOLES PER LADOTD REQUIREMENTS ARE ACCEPTABLE ALTERNATE.



SANITARY SEWER STANDARD TRENCH DETAILS

N.T.S.

NOTE:

TIMBER SHEETING AND BRACING SHOWN ABOVE ARE MIN. REQUIREMENTS TO CONTROL THE WIDTH OF THE EXCAVATED TRENCH AND TO SAFEGUARD THE INTEGRITY OF THE SEWER FOUNDATION, BEDDING AND BACKFILL. IN ADDITION TO THESE MIN. REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE SUFFICIENT SHEETING AND BRACING TO PROVIDE SAFE WORKING CONDITIONS FOR HIS WORKMEN.

SEWERAGE BEDDING TYPE VS DEPTH (FEET)

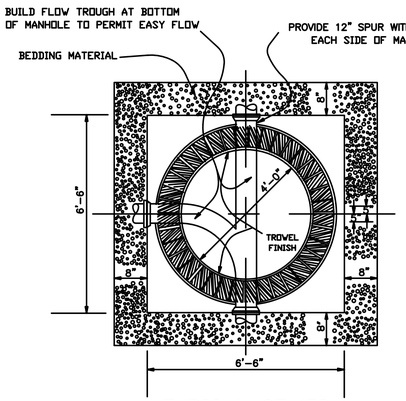
SOIL TYPE	0-4	4-6	6-8	8-10
17	I	II	III	V
6	I	II	III	V
16	II	II	III	V
14	II	II	III	V
13	II	II	III	V
3	II	III	IV	V
9	II	III	IV	V
5	II	III	IV	V
20	II	III	IV	V
18	II	III	IV	V
4	II	III	IV	V
1	II	III	IV	V
11	II	III	IV	V
2	II	III	IV	V
8	II	III	IV	V

BACKFILL WITH SELECT EXCAVATED MATERIAL FREE OF STUMPS, DEBRIS, AND VOIDS. BACKFILL MATERIAL BENEATH AND WITHIN 24 INCHES OF ROADWAY PAVING SHALL CONSIST OF PUMP RIVER SAND COMPACTED BY FLOODING TO 97% MAXIMUM DENSITY. CONTINUOUS NON-WOVEN GEOTEXTILE MATERIAL SHALL BE PLACED OVER BOTH THE PIPE AND THE TOP OF THE BEDDING MATERIAL. THE FABRIC SHALL EXTEND 12 INCHES ABOVE THE TOP OF THE PIPE ALONG THE TRENCH WALLS WITH A 24 INCH OVERLAP BETWEEN SHEETS.

NOTE:

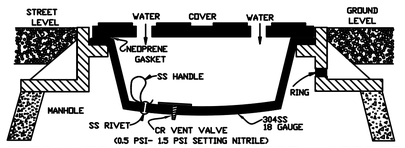
BEDDING MATERIALS FOR HOUSE CONNECTIONS TO BE IN CONFORMANCE WITH THE FOLLOWING SCHEDULE.

TYPE OF MAIN SEWER BEDDING	TYPE OF REQUIRED HOUSE CONNECTION BEDDING
V	IV
IV	III
III	II
II	I
I	CRUSHED LIME STONE OR GRAVEL ONLY



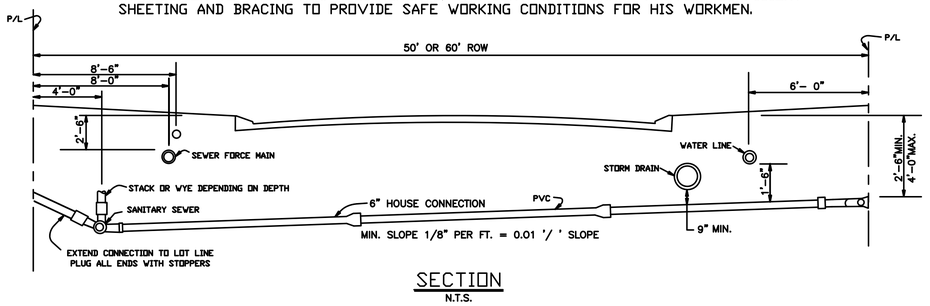
TYPICAL SEWER MANHOLE BOTTOM

N.T.S.



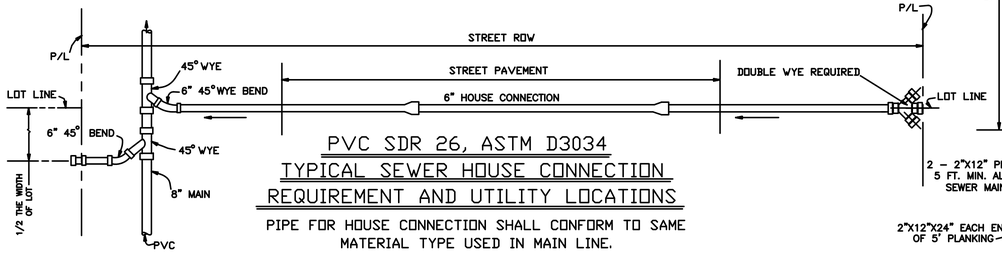
LIFESAVER STAINLESS STEEL STOPPER

N.T.S.



SECTION

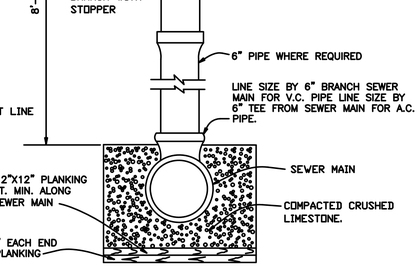
N.T.S.



PVC SDR 26, ASTM D3034

TYPICAL SEWER HOUSE CONNECTION REQUIREMENT AND UTILITY LOCATIONS

PIPE FOR HOUSE CONNECTION SHALL CONFORM TO SAME MATERIAL TYPE USED IN MAIN LINE.

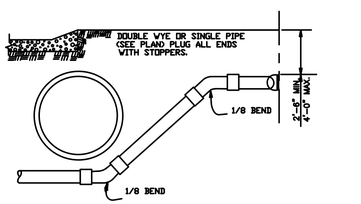


NOTE

ALL STACKS SHALL BE TIED INTO SHEETING WITH BRACING TO PREVENT LEANING

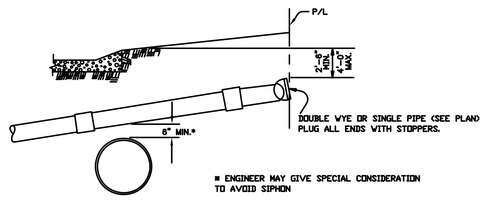
DETAIL OF RISER

N.T.S.



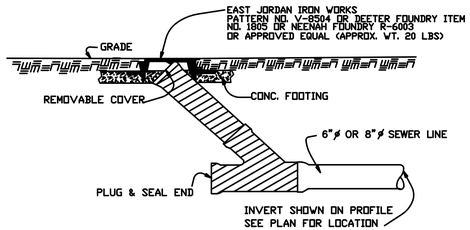
HOUSE CONNECTION UNDER DEEP DRAIN

N.T.S.



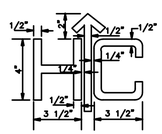
HOUSE CONNECTION OVER DRAIN

N.T.S.



CLEANOUT DETAIL

N.T.S.



NOTE:

1. CONTRACTOR TO HAVE BRAND FABRICATED & SUBMIT TO ENGINEER FOR APPROVAL
2. LETTERS TO BE IMPRESSED IN FACE OF ROLL OVER CURB AT EACH SEWER HOUSE CONNECTION. IMPRESSIONS SHALL NOT BE MORE THAN 1/2" NOR LESS THAN 1/4"

LETTER DETAIL FOR HOUSE CONNECTION MARKING DEVICE

N.T.S.

STATE OF LOUISIANA
STEVEN P. BREEDING
REG. No. 23247
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
09/10/25

SHEET NUMBER 1.3

ST. JOHN THE BAPTIST | CITY ----- | PROJECT 89091.14

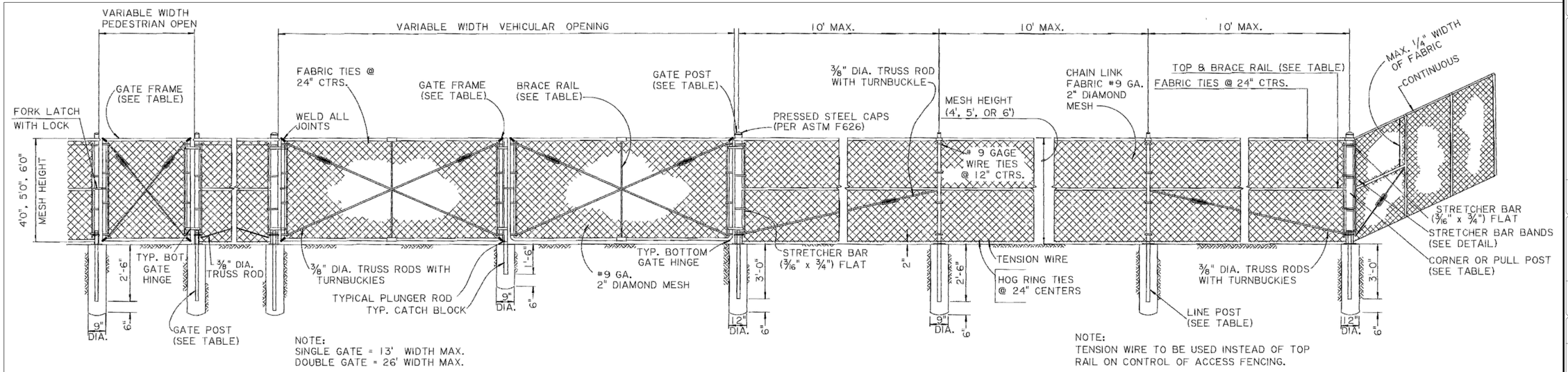
PARISH | DESIGNED SPB | CHECKED ADS | DETAILED DBS | CHECKED ADS | DATE | SHEET

REVISION DESCRIPTION | NO. | DATE | BY

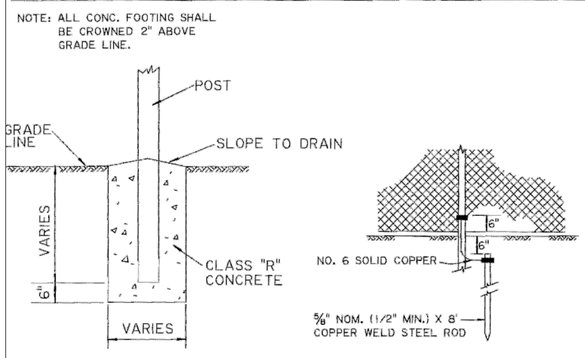
MISCELLANEOUS DETAILS
SEWER FORCE MAIN

WEST 13TH STREET, WEST 8TH STREET, AND EAST 13TH STREET
LIFT STATION REHABILITATION

S:\CADD\89091\89091.14\013_STANDARD SEWER DETAILS.DWG

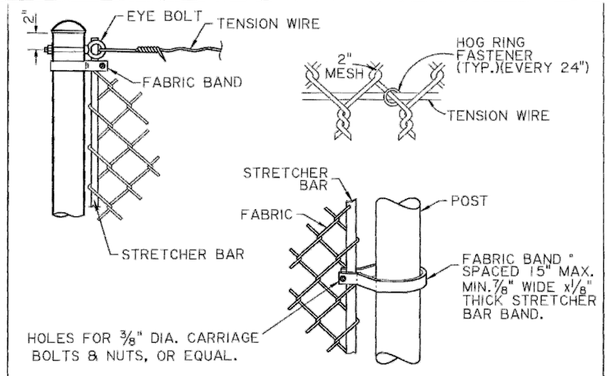


CHAIN LINK FENCE (4', 5', AND 6')

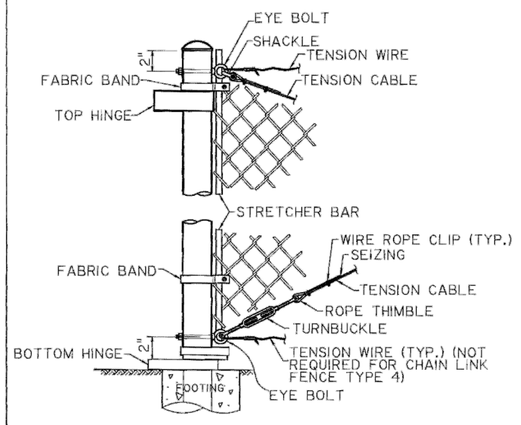


DETAIL OF POST FOOTING

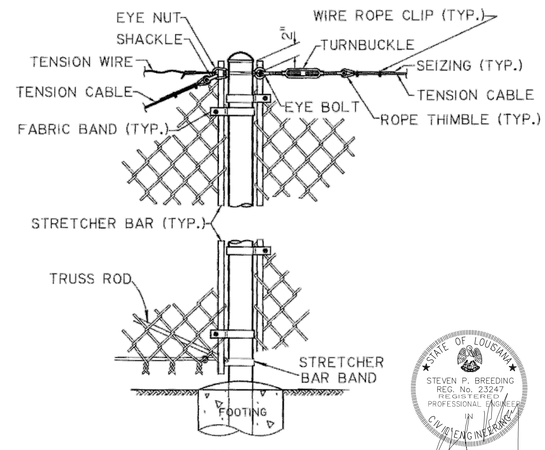
DETAIL OF GROUND WIRES FOR FENCES



FABRIC & TENSION WIRE DETAILS



GATE POST DETAIL



BRACE & TRUSS CONNECTION AT LINE POST

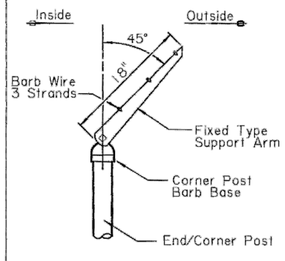
NOTES:

1. THE FENCE INSTALLATION AND DETAILS SHOWN ARE TYPICAL AND MAY VARY IN ACCORDANCE WITH DIFFERENT MANUFACTURERS, PROVIDED THEY MEET THE STANDARD SPECIFICATIONS.
2. TYPICAL INSTALLATION PLAN MAY VARY AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. LOCATION OF GATES TO BE SHOWN ON PLANS.
3. GROUNDING ROD ASSEMBLIES ARE TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
4. ALL BOLTS TO BE UPSET TO DISCOURAGE VANDALISM.
5. ALL CONNECTION METHODS TO BE APPROVED BY THE PROJECT ENGINEER.
6. LOCATION OF GATES TO BE SHOWN ON PLANS.
7. LATERAL FENCE TO BE SAME CONSTRUCTION AS FRONTAL FENCE.
8. CONTROL OF ACCESS FENCE SHALL BE 5 FT IN HEIGHT UNLESS OTHERWISE NOTED IN THE PLANS.
9. AT EACH LOCATION WHERE AN ELECTRIC TRANSMISSION, DISTRIBUTION, OR SECONDARY LINE CROSSES A FENCE, THE CONTRACTOR SHALL FURNISH AND INSTALL A GROUND CONFORMING TO ARTICLE 250 OF THE NATIONAL ELECTRIC CODE. A GROUND SHALL ALSO BE INSTALLED AT A MAXIMUM SPACING OF 500 FT. ALONG THE FENCE. GROUNDING WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST OF THE FENCE.
10. SEE AASHTO M-181 FOR ADDITIONAL REQUIREMENTS.

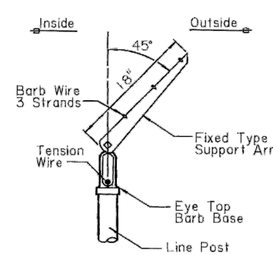
POST & RAIL TABLE

	STANDARD		ALTERNATES			
	OUTSIDE DIA. (INCHES)	L.BS. (PER LIN.FT.)	DIMENSION (INCHES)	SECTION	L.BS. (PER LIN.FT.)	ASTM F1043 GROUP
LINE POST	2 3/8	3.65	2.375	ROUND	3.12	
			2.25 X 1.70	H	3.26	III
			2.25 X 1.70	HEAVY C	2.78	II
			1.875 X 1.625	STD. C	2.40	II
BRACE RAIL	1 5/8	2.27	1.660	ROUND	1.84	
COR. POST	2 7/8	5.79	2.875	ROUND	4.64	
GATE POST	4.0	9.10	3.500	ROUND	5.71	IC
GATE FRAME	1 7/8	2.72	1.900	ROUND	2.28	

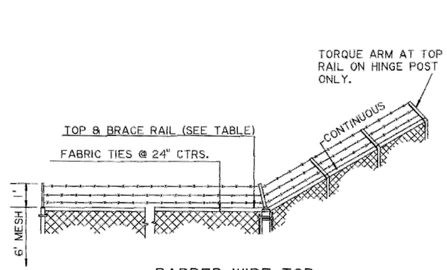
7 FT FENCE



CORNER POST SUPPORT ARM



LINE POST SUPPORT ARM



BARBED WIRE TOP

STATE OF LOUISIANA
STEVEN P. BREEDING
REG. No. 23247
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
04/10/25

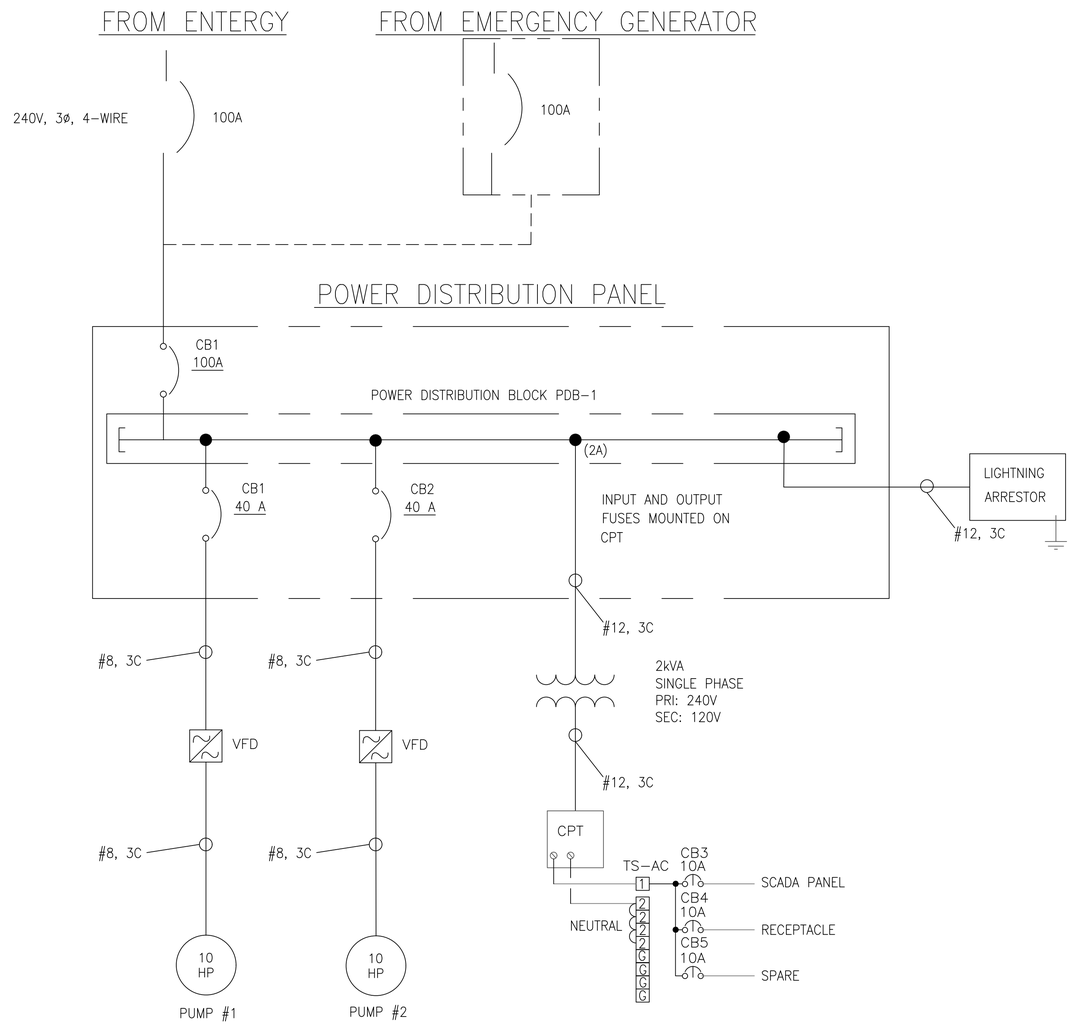
SHEET NUMBER	14
PARISH	ST. JOHN THE BAPTIST
CITY	-----
PROJECT	89091.14
DESIGNED	SPB
CHECKED	ADS
DETAILED	DBS
CHECKED	ADS
DATE	
SHEET	

NO. | DATE | REVISION DESCRIPTION | BY

MISCELLANEOUS DETAILS
CHAIN LINK FENCE

WEST 13th STREET, WEST 8th STREET, AND EAST 13th STREET
LIFT STATION REHABILITATION

S:\CADD\89091\89091.14\014_FENCE DETAILS.DWG



STATE OF LOUISIANA
DANIEL T. FOGLESONG
License No. 35416
PROFESSIONAL ENGINEER
CONTROL SYSTEMS ENGINEER

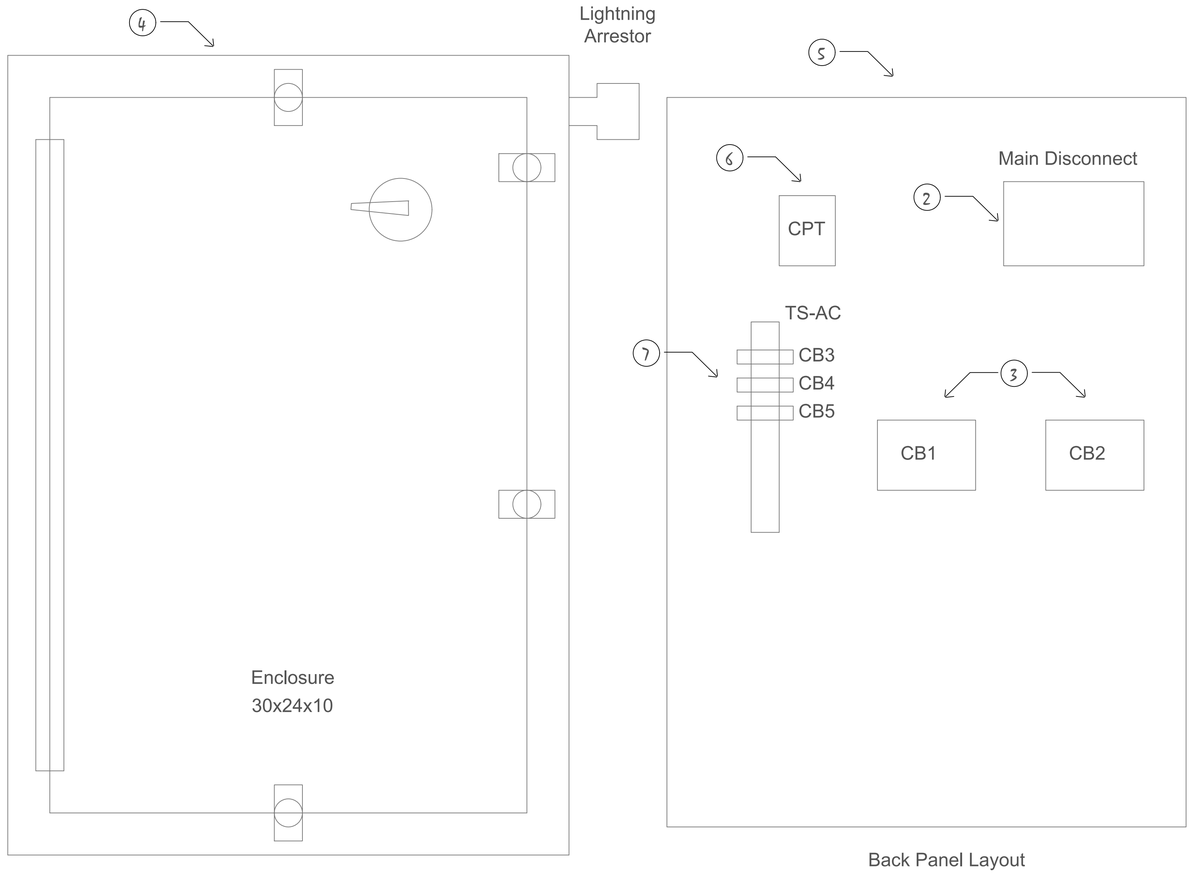
Daniel T. Foglesong
4/15/2025

NO.	DATE	REVISION DESCRIPTION	
			DESIGNED: CJF CHECKED: CJF APPROVED: DTF
1	04/14/2025	ISSUED FOR CONSTRUCTION	DESIGNED: ALF CHECKED: FRF APPROVED: DTF

PACE PROCESS AND CONTROLS ENGINEERING
9 FLAMINGO STREET
NEW ORLEANS, LA 70124

E-01

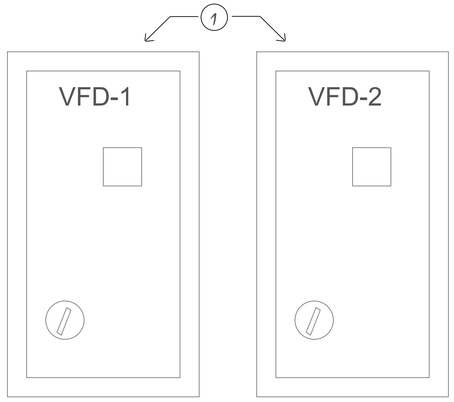
WEST 13TH ST
ELECTRICAL ONE-LINE



Back Panel Layout

ITEM NO.	QTY	DESCRIPTION
1	2	Variable Speed Drives
2	1	Disconnect Switch
3	2	Circuit Breaker
4	1	Enclosure
5	1	Backplate
6	1	Control Power Transformer
7	3	Miniature Circuit Breakers

Rack Mounted Nema 4 VFD



STATE OF LOUISIANA
DANIEL T. FOGLESONG
License No. 35416
PROFESSIONAL ENGINEER
CONTROL SYSTEMS ENGINEER

Daniel T. Foglesong
4/15/2025

NO.	DATE	REVISION DESCRIPTION	
2	04/14/2025	ADDED LEVEL& SPEED INSTR	DESIGNED: CJF CHECKED: CJF APPROVED: DTF
1	7/03/15	ISSUED FOR CONSTRUCTION	DESIGNED: ALF CHECKED: FRF APPROVED: DTF

PACE PROCESS AND CONTROLS ENGINEERING
9 FLAMINGO STREET
NEW ORLEANS, LA 70124

E-02
SHT 1

WEST 13TH ST
POWER PANEL & VFD'S

NORMAL POWER
240V 100 Amp
N G L3 L2 L1

EMERGENCY POWER
L1 L2 L3

GENERATOR
CONNECTION PANEL

100A, 3 POLE
MAIN DISCONNECT

DISTRIBUTION
TERMINALS

12

LIGHTING
ARRESTOR

POWER PANEL

40A
3P
CB1
#8
#8
#8

RACK MOUNTED

VFD-1
L1 L2 L3
U V W
M
10 HP
28 A
G

Input amd
Ouput Fuses
Mounted on
CPT

240 VAC
1 Phase

CPT

120 VAC

40A
3P
CB2
#8
#8
#8

VFD-2
L1 L2 L3
U V W
M
10 HP
28 A
G

TS-AC

CB3
10A
1
SCADA Panel

Neutral

2
2
2
2
CB4
10A
Receptacle

CB5
10A
G
G
G
G
Spare

STATE OF LOUISIANA
DANIEL T. FOGLESONG
License No. 35416
PROFESSIONAL ENGINEER
IN CONTROL SYSTEMS ENGINEERING

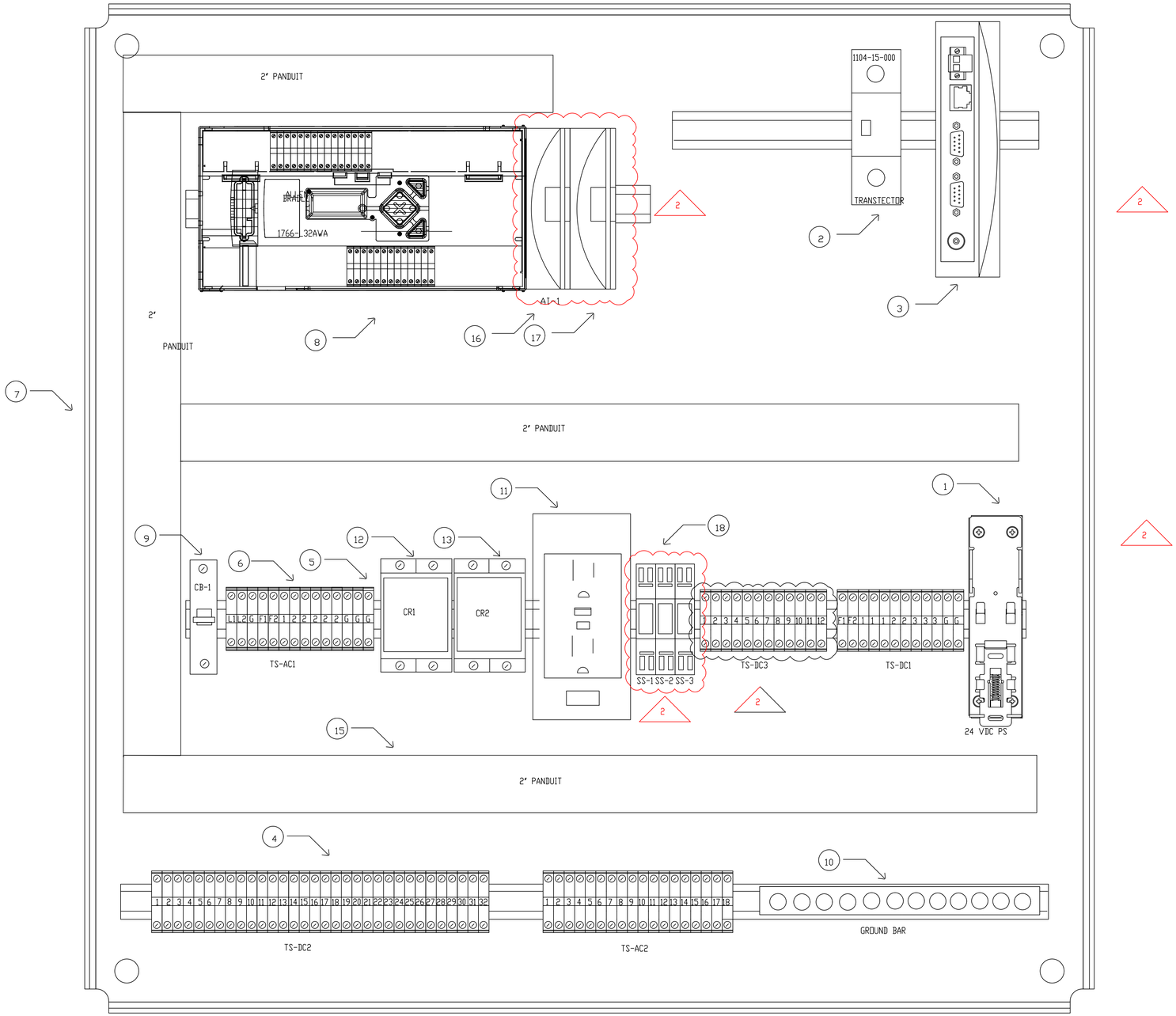
Daniel T. Foglesong
4/15/2025

NO.	DATE	REVISION DESCRIPTION	
			DESIGNED: CJF CHECKED: CJF APPROVED: DTF
1	04/14/2025	ISSUED FOR CONSTRUCTION	DESIGNED: ALF CHECKED: FRF APPROVED: DTF

PACE PROCESS AND CONTROLS ENGINEERING
9 FLAMINGO STREET
NEW ORLEANS, LA 70124

E-02
SHT 2

WEST 13TH ST
POWER PANEL WIRING



BILL OF MATERIAL				
ITEM NO.	QTY	DESCRIPTION	MANUFACTURE	PART NUMBER
1	1	POWER SUPPLY 24VDC	RHINO	PSB24-060S
2	1	AC SURGE PROTECTOR	TRANSTECTOR	1104-15-000
3	1	RADIO	GE	SD09-MDCESNNDNN
4	78	TERMINAL STRIPS	WAGO	280-601
5	5	GROUND STRIPS	WAGO	280-607
6	4	FUSE BLOCK	WAGO	281-623/281-418
7	1	BACK PLATE	ALLIED	PA2424
8	1	PLC	ALLEN BRADLEY	1766-L32BWA
9	1	CIRCUIT BREAKER	ALLEN BRADLEY	1489-M1C200
10	1	GROUND BAR	SQUARE D	PK12GTA
11	1	RECEPTACLE GFCI	ALLEN BRADLEY	1492-REC20G
12	2	RELAYS	IDEC	RH2B-UL-AC120
13	2	RELAY BASE	IDEC	SH2B-05
14	-	WIRE DUCT 2"x 1.5"	BETADUCT	BG2X1.5LG6.5-C
15	1	WHIP	VENTEV	800-472-7373
16	1	ANALOG INPUT CARD	ALLEN BRADLEY	1762-IF4
17	1	ANALOG OUTPUT CARD	ALLEN BRADLEY	1762-OF4
18	3	ANALOG SURGE PROTECTOR	TRANSTECTOR	1011-680

STATE OF LOUISIANA
DANIEL T. FOGLESONG
License No. 35416
PROFESSIONAL ENGINEER
IN CONTROL SYSTEMS ENGINEER

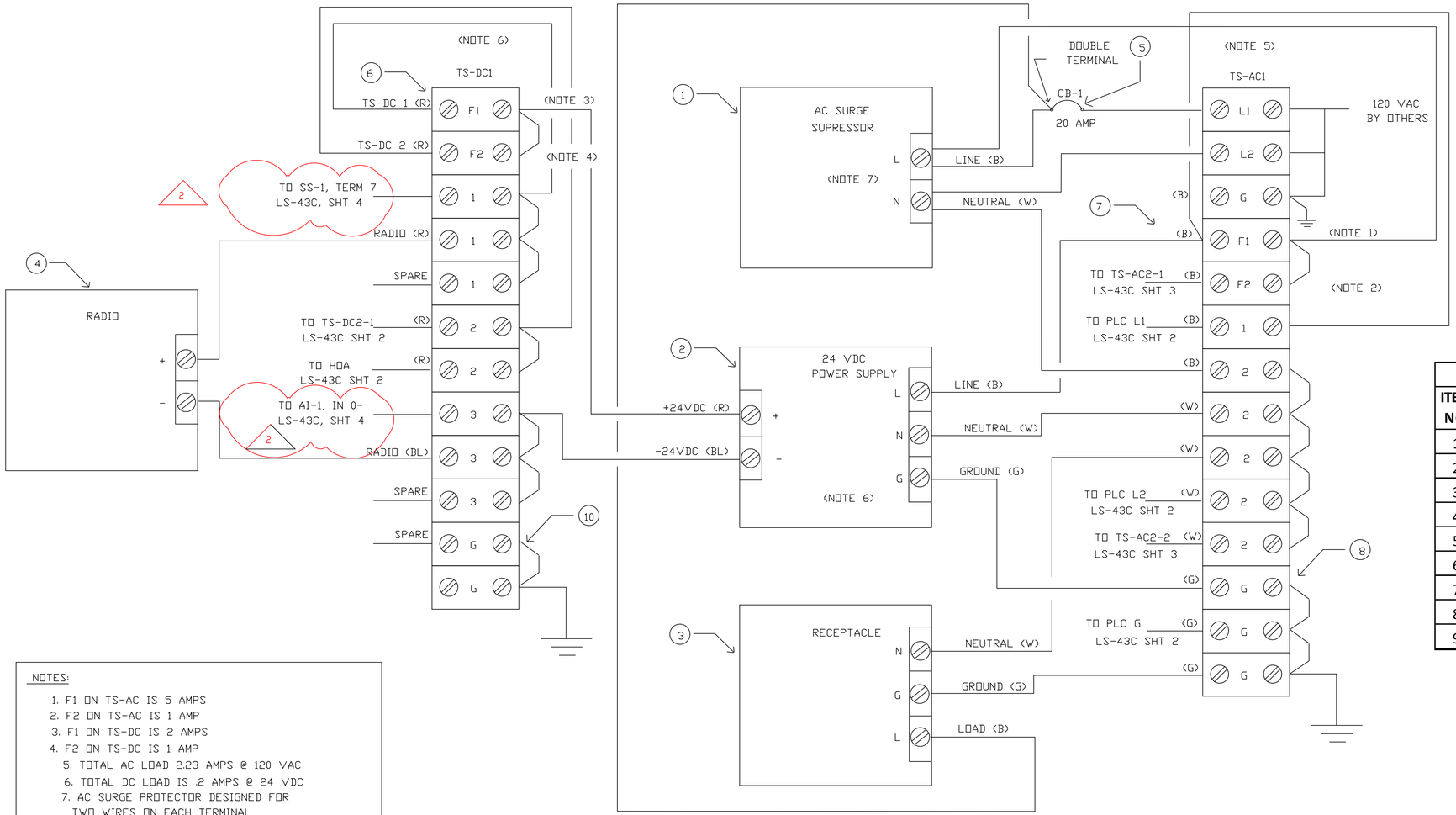
Daniel T. Foglesong
4/15/2025

NO.	DATE	REVISION DESCRIPTION	
2	04/14/2025	ADDED LEVEL& SPEED INSTR	DESIGNED: CJF CHECKED: CJF APPROVED: DTF
1	7/03/15	ISSUED FOR CONSTRUCTION	DESIGNED: ALF CHECKED: FRF APPROVED: DTF

PACE PROCESS AND CONTROLS ENGINEERING
9 FLAMINGO STREET
NEW ORLEANS, LA 70124

E-03
SHT 1

WEST 13TH ST SCADA PANEL



BILL OF MATERIAL				
ITEM NO.	QTY	DESCRIPTION	MANUFACTURE	PART NUMBER
1	1	AC SURGE SUPRESSOR	TRANSTECTOR	1104-15-000
2	1	POWER SUPPLY 24 VDC	RHINO	PSB24-060S
3	1	RECEPTACLE GFCI	ALLEN BRADLEY	1492-REC20G
4	1	RADIO	PROSOFT	RLX2-IFH24E
5	1	CIRCUIT BREAKER	ALLEN BRADLEY	1489-M1C200
6	16	TERMINALS	WAGO	280-601
7	4	FUSE BLOCKS	WAGO	281-623/281-418
8	6	GROUND TERMINALS	WAGE	280-607
9		14 AWG 600V THHN WIRE	REPUBLIC WIRE	

NOTES:

1. F1 ON TS-AC IS 5 AMPS
2. F2 ON TS-AC IS 1 AMP
3. F1 ON TS-DC IS 2 AMPS
4. F2 ON TS-DC IS 1 AMP
5. TOTAL AC LOAD 2.23 AMPS @ 120 VAC
6. TOTAL DC LOAD IS .2 AMPS @ 24 VDC
7. AC SURGE PROTECTOR DESIGNED FOR TWO WIRES ON EACH TERMINAL

GENERAL:

1. TERMINALS HAVE PLUG IN JUMPERS, TWO WIRES ARE NOT LANDED ON THE SAME TERMINAL
2. WIRE COLOR CODING:
   - 120 VAC LINE - BLACK (B)
   - 120 VAC NEUTRAL - WHITE (W)
   - 24 VDC POSITIVE - RED (R)
   - 24 VDC NEGATIVE - BLUE (BL)
   - 120 VAC / 24 VDC GROUND - GREEN (G)
   - ALL WIRE IS 14 AWG 600V THHN

STATE OF LOUISIANA
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License No. 35416
PROFESSIONAL ENGINEER
CONTROL SYSTEMS ENGINEER

Daniel T. Foglesong
4/15/2025

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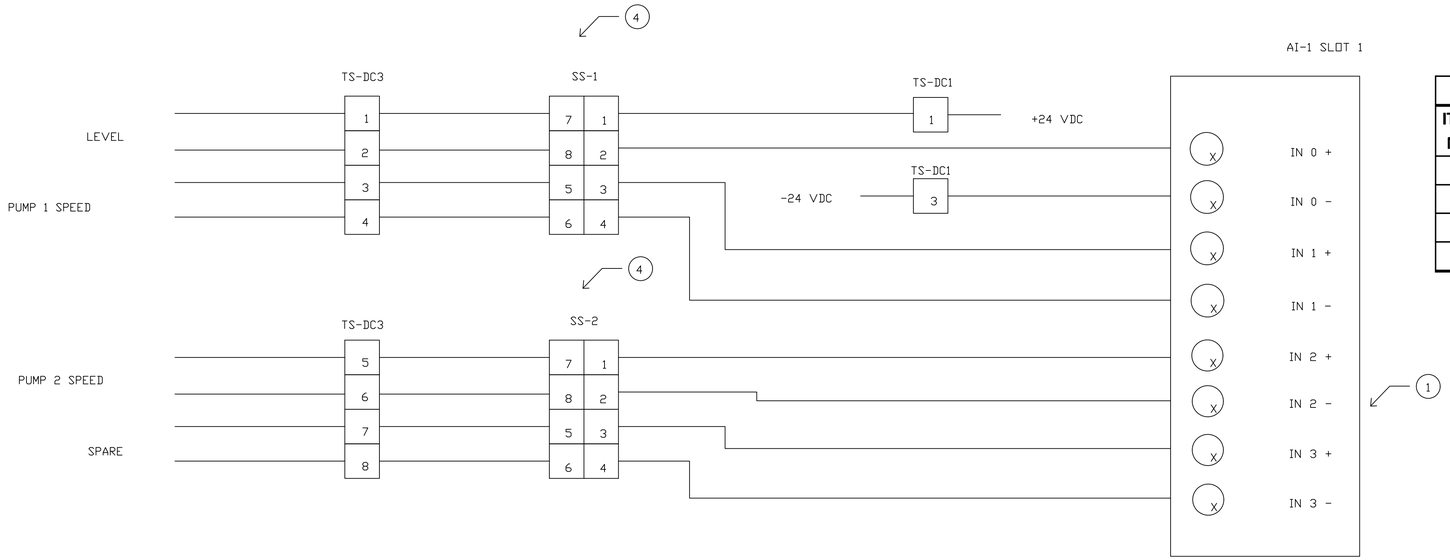
2	04/14/2025	ADDED LEVEL& SPEED INSTR	DESIGNED: CJF CHECKED: CJF APPROVED: DTF
1	7/03/15	ISSUED FOR CONSTRUCTION	DESIGNED: ALF CHECKED: FRF APPROVED: DTF

PROCESS AND CONTROLS ENGINEERING
9 FLAMINGO STREET
NEW ORLEANS, LA 70124

E-03
SHT 2

WEST 13TH ST
SCADA PANEL



BILL OF MATERIAL				
ITEM NO.	QTY	DESCRIPTION	MANUFACTURE	PART NUMBER
1	1	ANAOLG INPUT CARD	ALLEN BRADLEY	1762-IF4
2	1	ANAOLG OUTPUT CARD	ALLEN BRADLEY	1762-OF4
3	38	TERMINALS	WAGO	280-601
4	3	ANALOG SURGE PROTECTOR	TRANSTECTOR	1101-680

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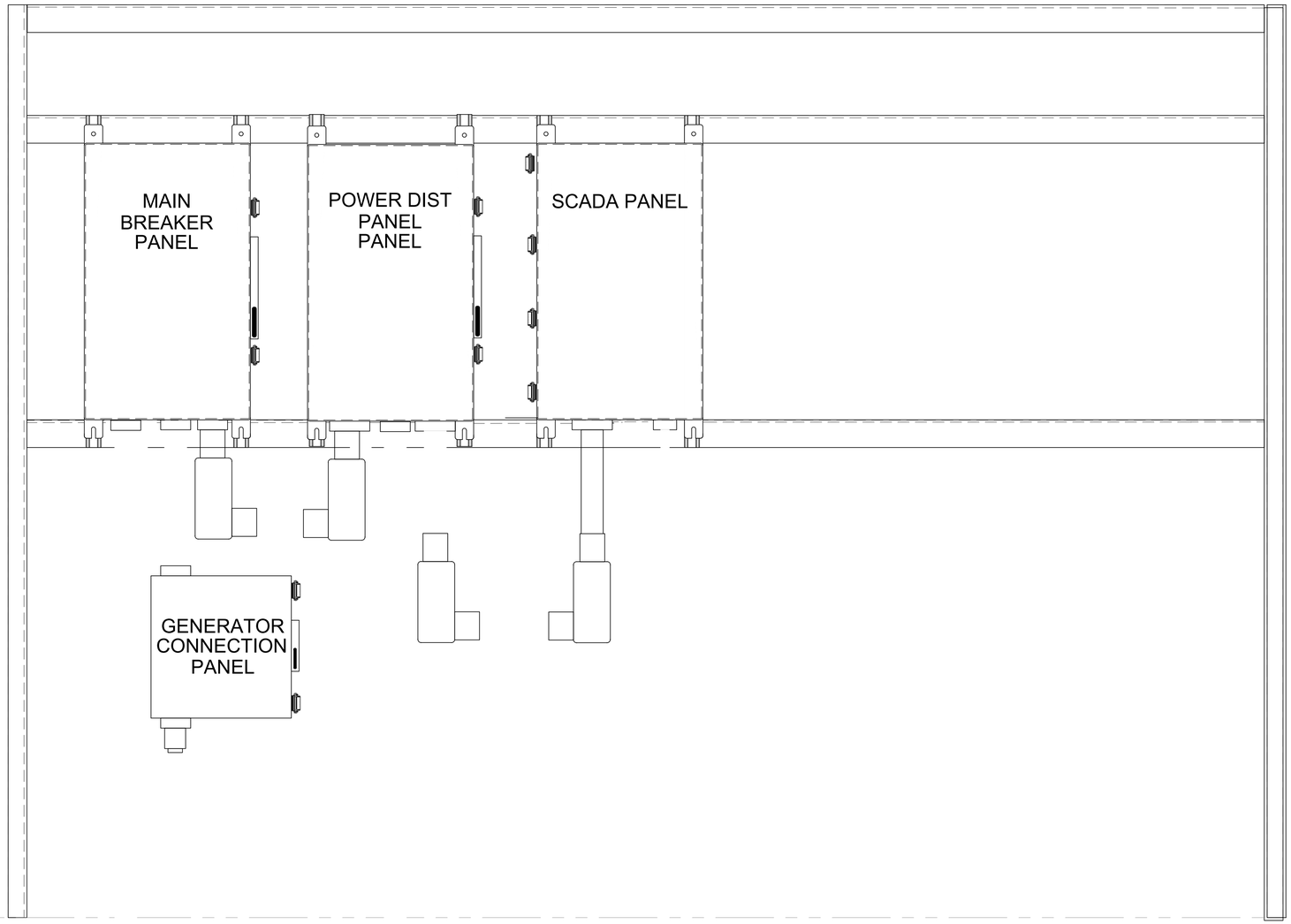
PACE PROCESS AND CONTROLS ENGINEERING
9 FLAMINGO STREET
NEW ORLEANS, LA 70124

E-03
SHT 3

WEST 13TH ST SCADA PANEL



NOTES:
1. RACK SHALL BE MADE FROM ALUMINUM
2. ALL CONDUIT INSTALLED FOR THIS PROJECT SHALL BE SEALED, WATERPROOF CONDUIT
3. GENERATOR CONNECTION SHALL BE FITTED WITH A SCREWED PLUG
4. RACK SHALL BE SIZED FOR NEW PANELS AND HAVE SPACE FOR 2 ADDITIONAL 24" WIDE PANELS
5. PANELS SHALL BE PROVIDED WITH ENGRAVED LABELS

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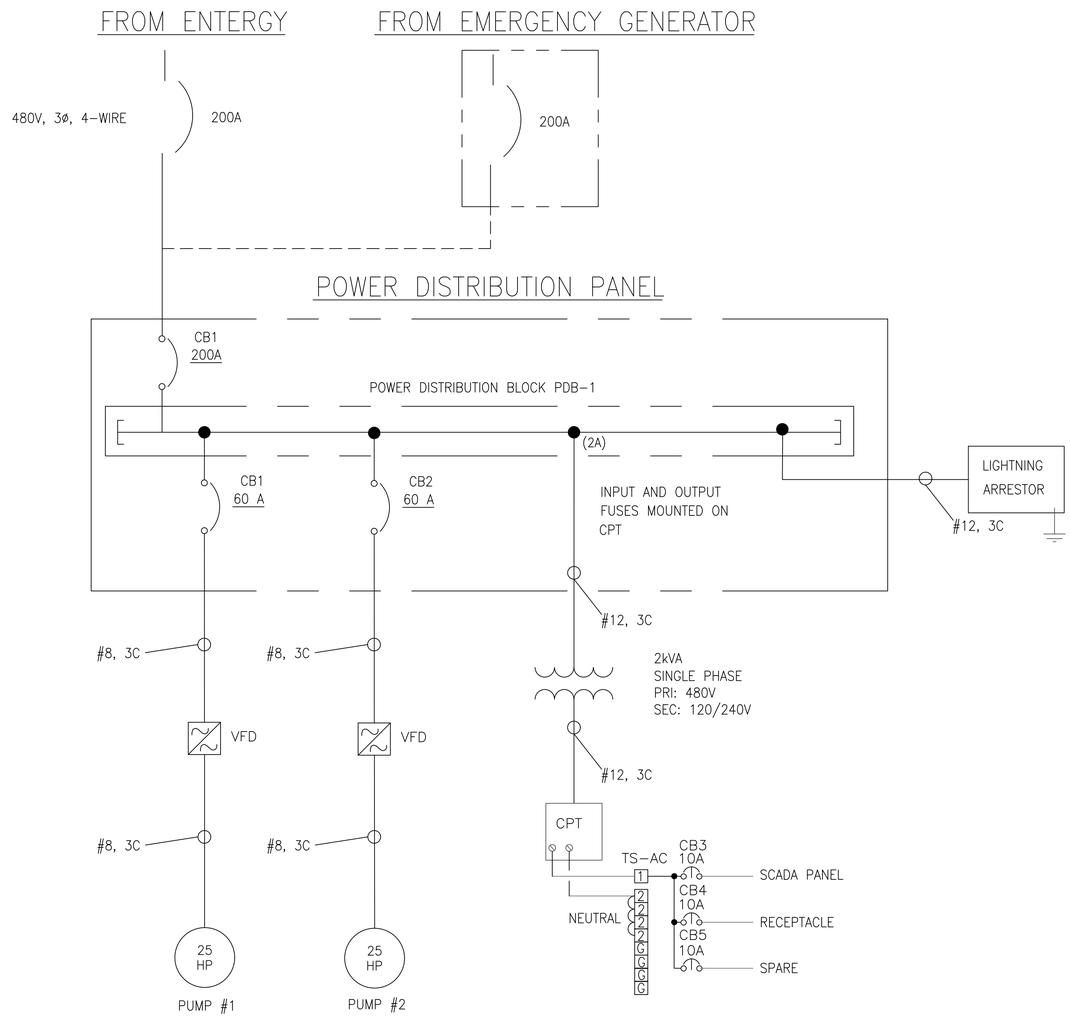
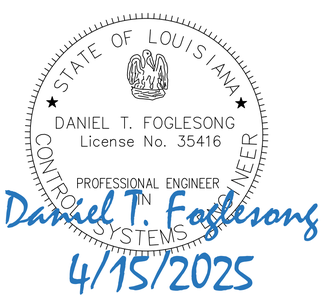
E-04

WEST 13TH ST PANEL LAYOUT





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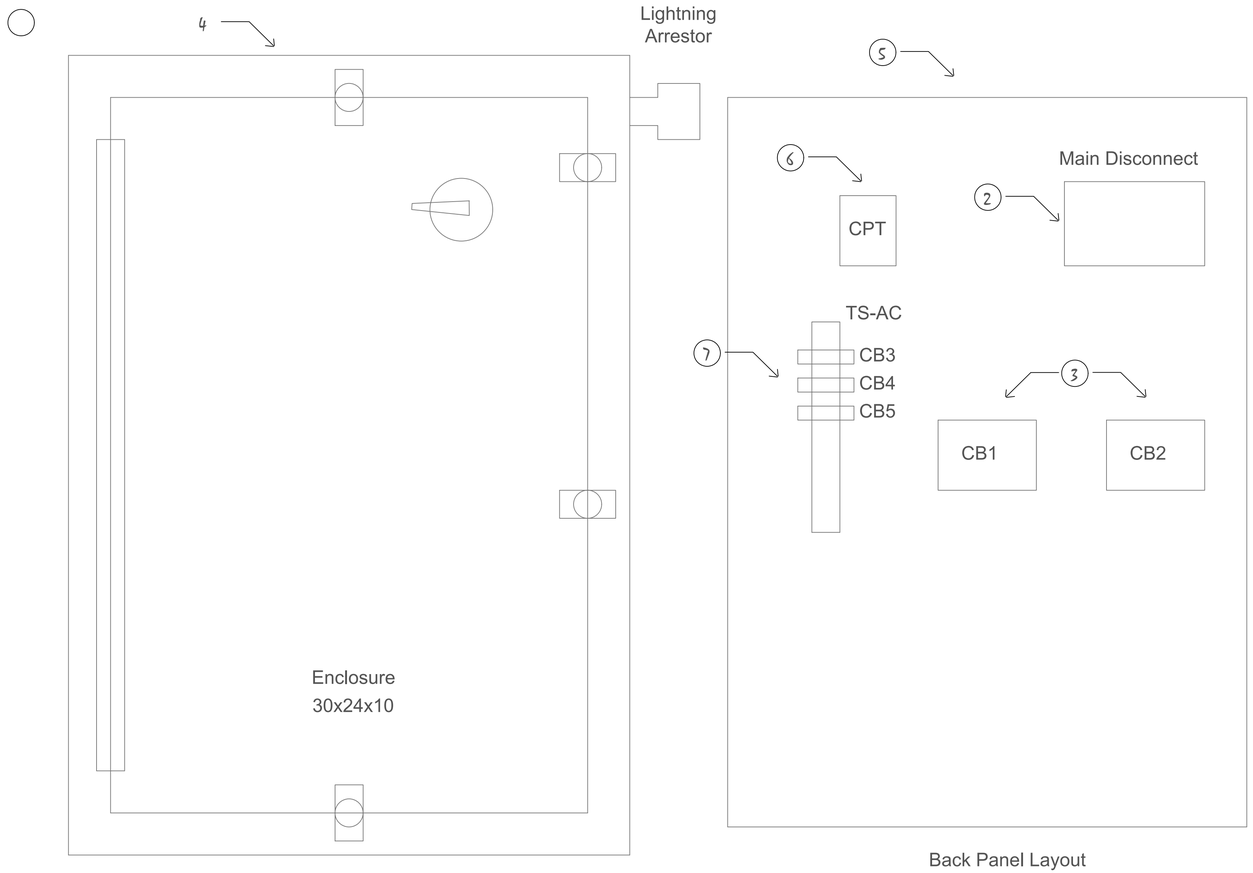
9 FLAMINGO STREET
NEW ORLEANS, LA 70124

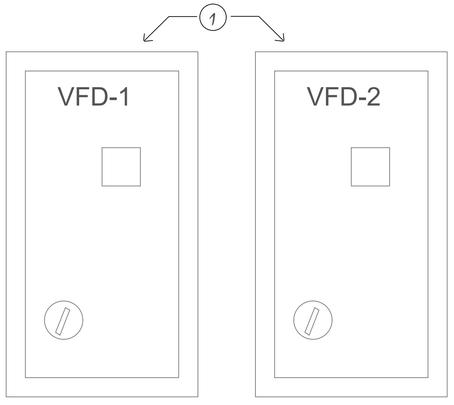
E-01

WEST 8TH ST ELECTRICAL ONE-LINE



Back Panel Layout

Rack Mounted Nema 4 VFD



ITEM NO.	QTY	DESCRIPTION
1	2	Variable Speed Drives
2	1	Disconnect Switch
3	2	Circuit Breaker
4	1	Enclosure
5	1	Backplate
6	1	Control Power Transformer
7	3	Miniature Circuit Breakers

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PACE
PROCESS AND CONTROLS ENGINEERING
9 FLAMINGO STREET
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E-02
SHT 1

WEST 8TH ST
POWER PANEL & VFD'S

NORMAL POWER
480V 200 Amp
N G L3 L2 L1

EMERGENCY POWER
L1 L2 L3

GENERATOR
CONNECTION PANEL

200A, 3 POLE
MAIN DISCONNECT

DISTRIBUTION
TERMINALS

12

LIGHTING
ARRESTOR

POWER PANEL

60A
3P
CB1
#8
#8
#8

RACK MOUNTED

VFD-1
L1 L2 L3
U V W
M
25 HP
34 A
G

Input amd
Ouput Fuses
Mounted on
CPT

480 VAC
1 Phase

CPT

120 VAC

60A
3P
CB2
#8
#8
#8

VFD-2
L1 L2 L3
U V W
M
25 HP
34 A
G

TS-AC

CB3
10A
1
SCADA Panel

Neutral

2
2
2
2

CB4
10A
Receptacle

CB5
10A
Spare

G
G
G
G

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9 FLAMINGO STREET
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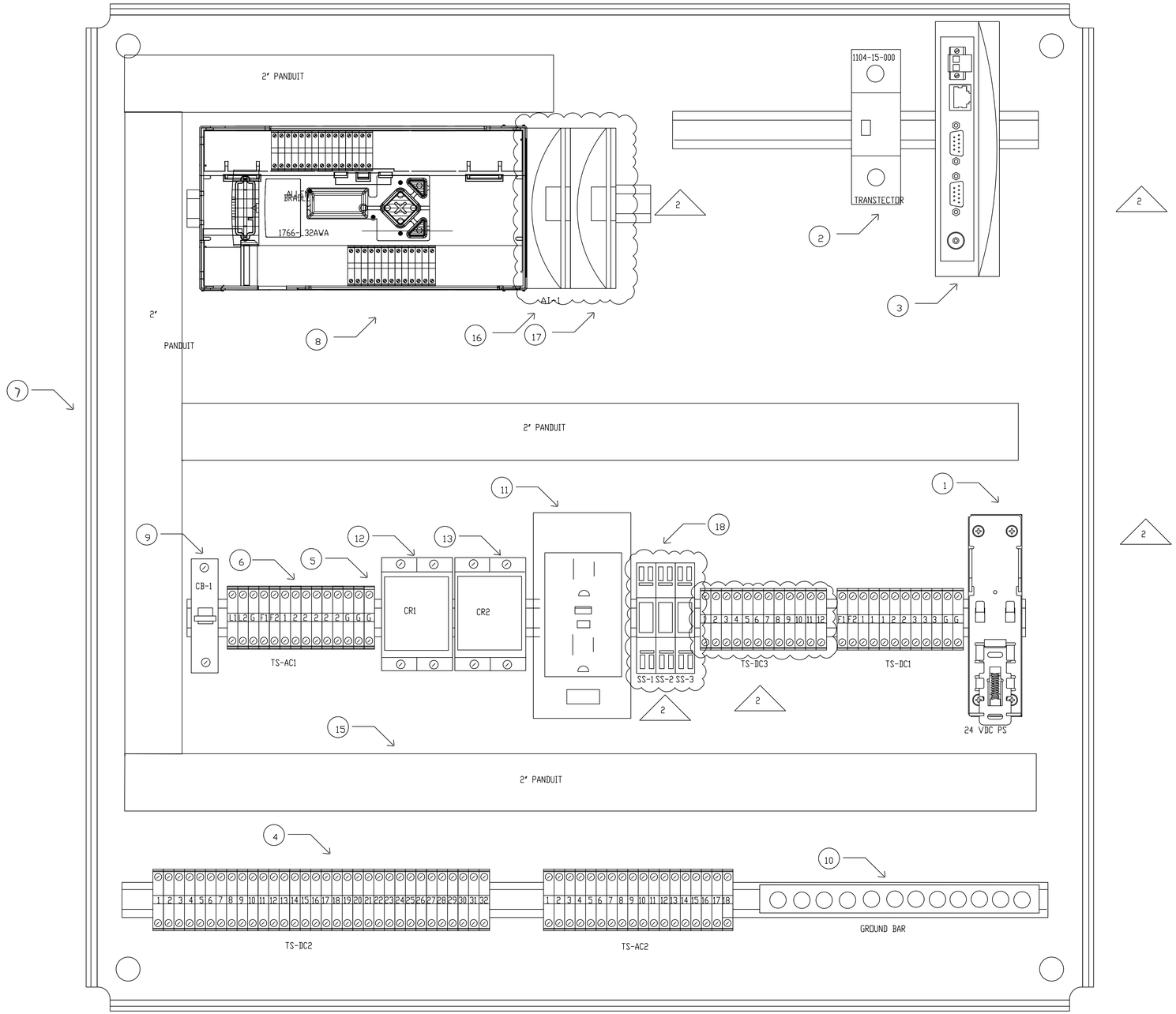
E-02
SHT 2

WEST 8TH ST
POWER PANEL WIRING



BILL OF MATERIAL

ITEM NO.	QTY	DESCRIPTION	MANUFACTURE	PART NUMBER
1	1	POWER SUPPLY 24VDC	RHINO	PSB24-060S
2	1	AC SURGE PROTECTOR	TRANSTECTOR	1104-15-000
3	1	RADIO	GE	SD09-MDCESNNDNN
4	78	TERMINAL STRIPS	WAGO	280-601
5	5	GROUND STRIPS	WAGO	280-607
6	4	FUSE BLOCK	WAGO	281-623/281-418
7	1	BACK PLATE	ALLIED	PA2424
8	1	PLC	ALLEN BRADLEY	1766-L32BWA
9	1	CIRCUIT BREAKER	ALLEN BRADLEY	1489-M1C200
10	1	GROUND BAR	SQUARE D	PK12GTA
11	1	RECEPTACLE GFCI	ALLEN BRADLEY	1492-REC20G
12	2	RELAYS	IDEC	RH2B-UL-AC120
13	2	RELAY BASE	IDEC	SH2B-05
14	-	WIRE DUCT 2"x 1.5"	BETADUCT	BG2X1.5LG6.5-C
15	1	WHIP	VENTEV	800-472-7373
16	1	ANALOG INPUT CARD	ALLEN BRADLEY	1762-IF4
17	1	ANALOG OUTPUT CARD	ALLEN BRADLEY	1762-OF4
18	3	ANALOG SURGE PROTECTOR	TRANSTECTOR	1011-680

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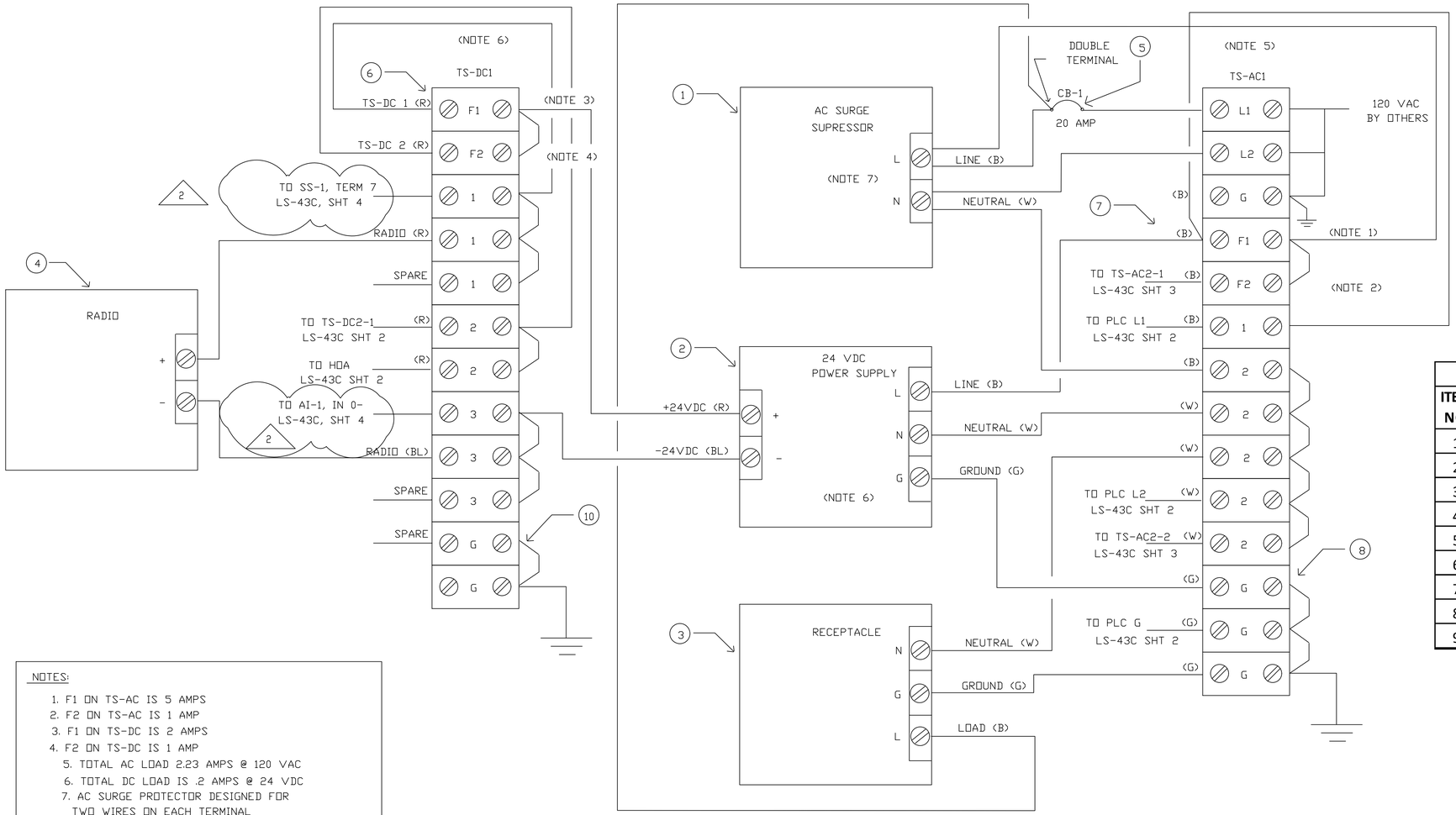
9 FLAMINGO STREET
NEW ORLEANS, LA 70124

E-03
SHT 1

WEST 8TH ST SCADA PANEL



NOTES:

1. F1 ON TS-AC IS 5 AMPS
2. F2 ON TS-AC IS 1 AMP
3. F1 ON TS-DC IS 2 AMPS
4. F2 ON TS-DC IS 1 AMP
5. TOTAL AC LOAD 2.23 AMPS @ 120 VAC
6. TOTAL DC LOAD IS .2 AMPS @ 24 VDC
7. AC SURGE PROTECTOR DESIGNED FOR TWO WIRES ON EACH TERMINAL

GENERAL:

1. TERMINALS HAVE PLUG IN JUMPERS, TWO WIRES ARE NOT LANDED ON THE SAME TERMINAL
2. WIRE COLOR CODING:
   - 120 VAC LINE - BLACK (B)
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   - 24 VDC POSITIVE - RED (R)
   - 24 VDC NEGATIVE - BLUE (BL)
   - 120 VAC / 24 VDC GROUND - GREEN (G)
   - ALL WIRE IS 14 AWG 600V THHN

BILL OF MATERIAL

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2	1	POWER SUPPLY 24 VDC	RHINO	PSB24-060S
3	1	RECEPTACLE GFCI	ALLEN BRADLEY	1492-REC20G
4	1	RADIO	PROSOFT	RLX2-IFH24E
5	1	CIRCUIT BREAKER	ALLEN BRADLEY	1489-M1C200
6	16	TERMINALS	WAGO	280-601
7	4	FUSE BLOCKS	WAGO	281-623/281-418
8	6	GROUND TERMINALS	WAGE	280-607
9		14 AWG 600V THHN WIRE	REPUBLIC WIRE	

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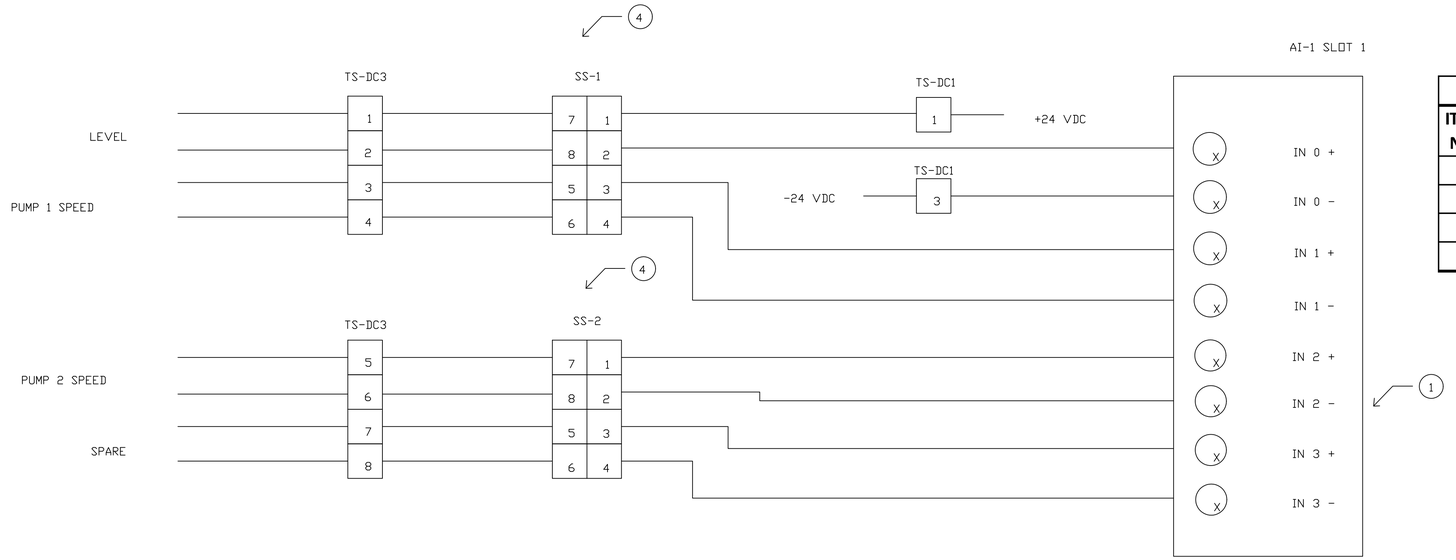
E-03
SHT 2

WEST 8TH ST SCADA PANEL



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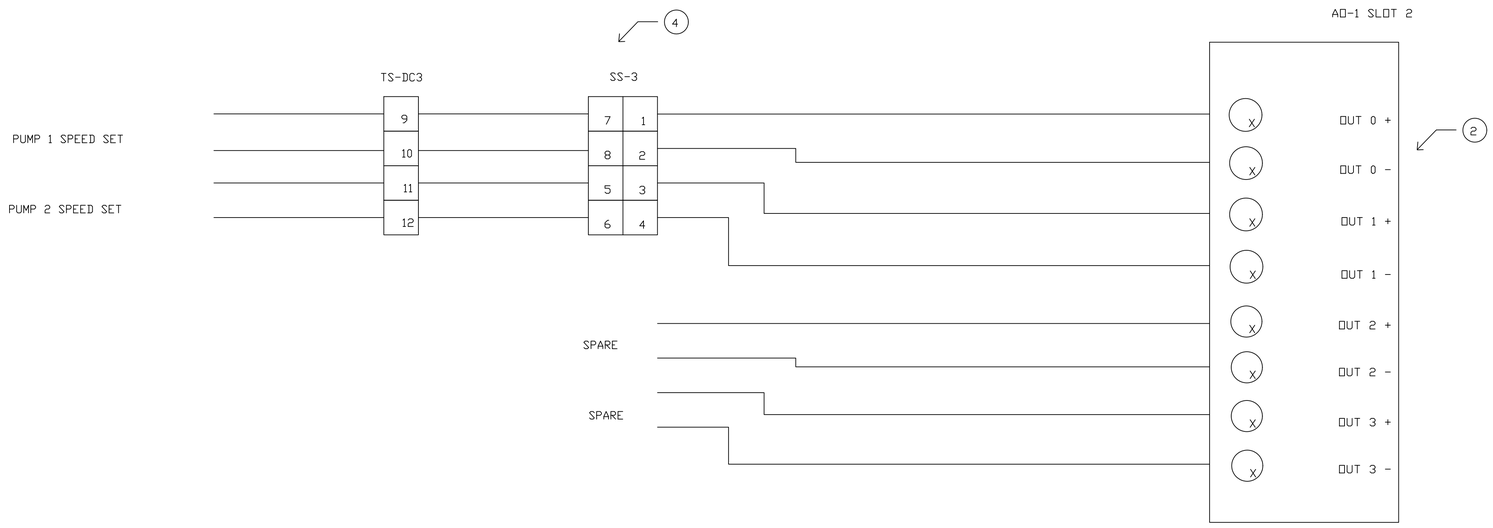
4	3	ANALOG SURGE PROTECTOR	TRANSTECTOR	1101-680



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9 FLAMINGO STREET
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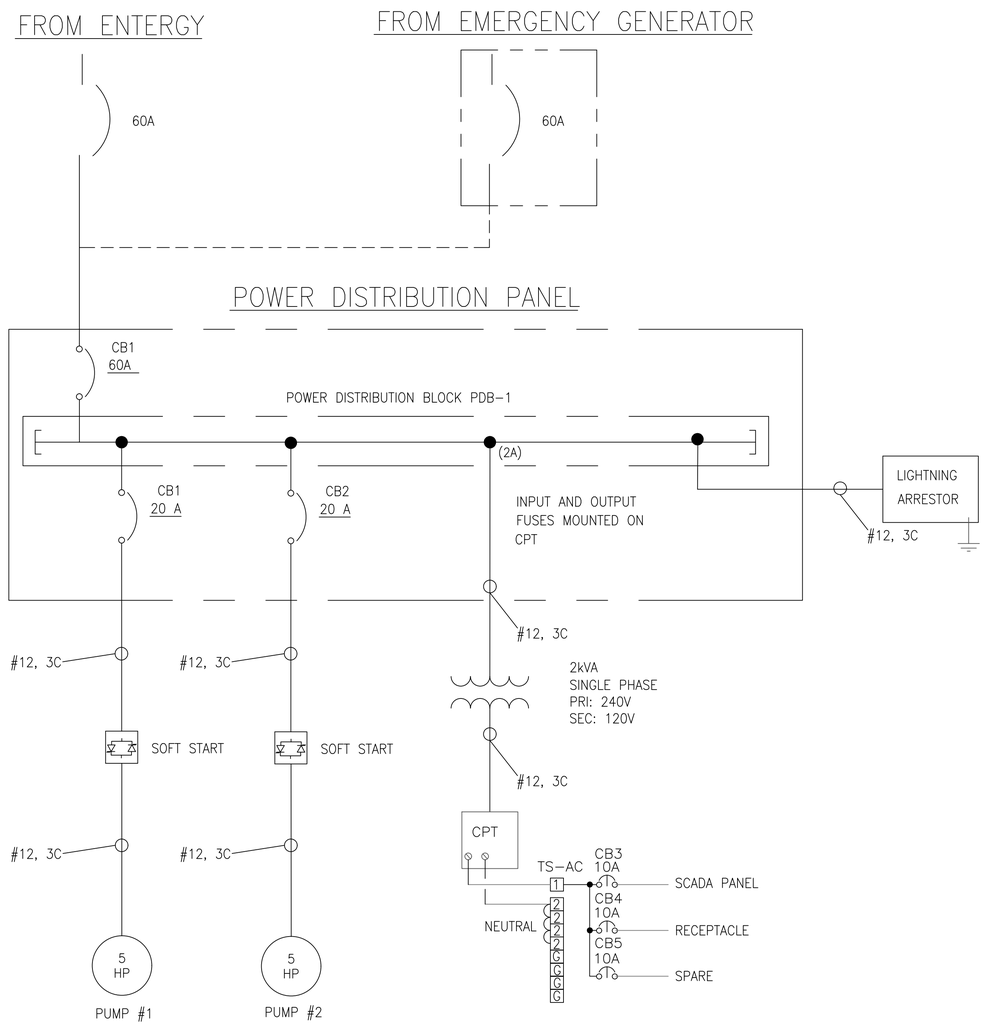
E-03
SHT 3

WEST 8TH ST SCADA PANEL



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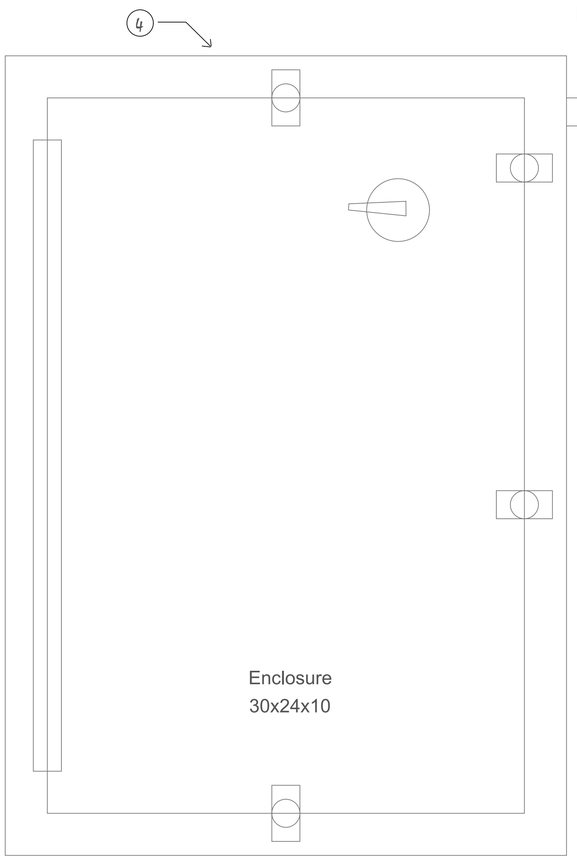
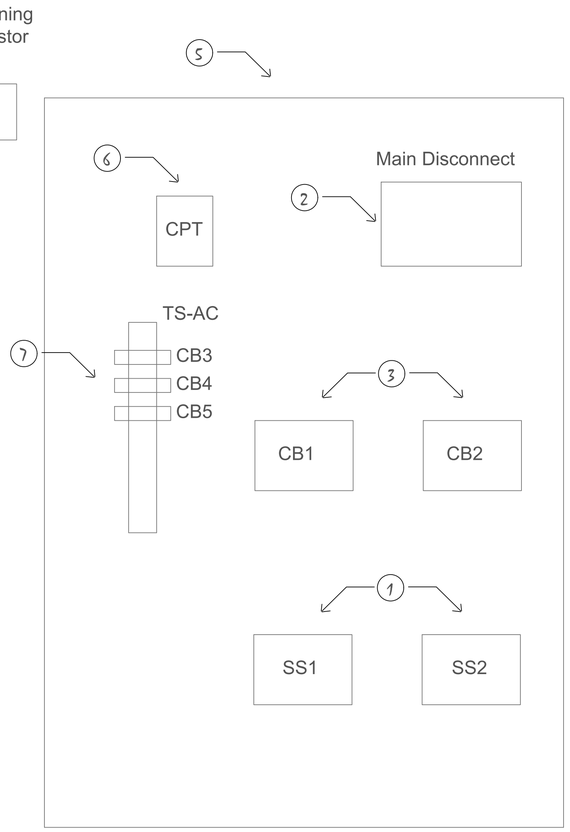
E-01

EAST 13TH ST
ELECTRICAL ONE-LINE





Back Panel Layout

ITEM NO.	QTY	DESCRIPTION
1	2	Soft Start
2	1	Disconnect Switch
3	2	Circuit Breaker
4	1	Enclosure
5	1	Backplate
6	1	Control Power Transformer
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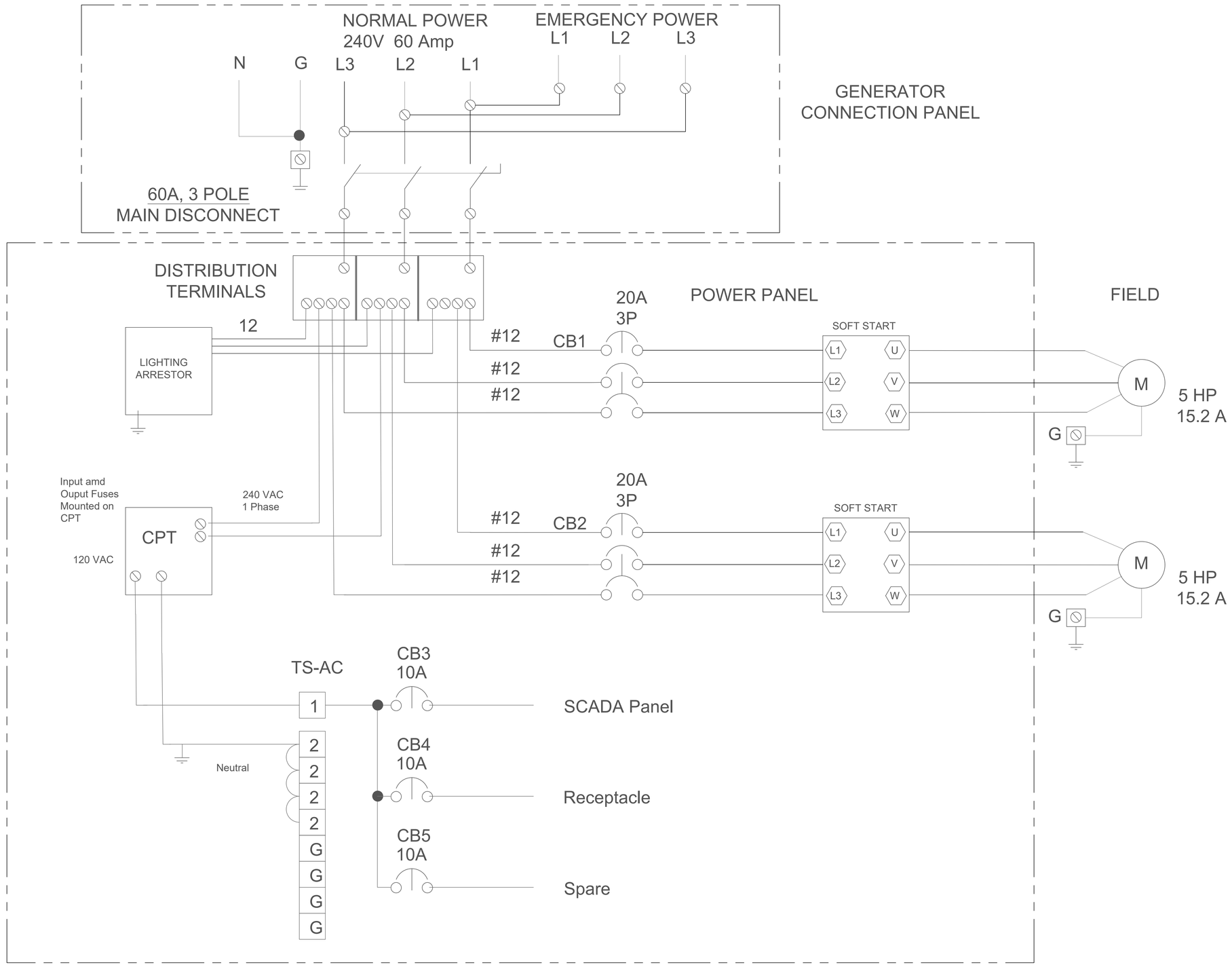
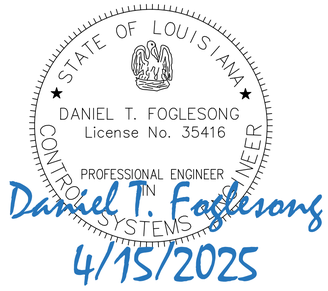
NEW ORLEANS, LA 70124

E-02
SHT 1

EAST 13TH ST
POWER PANEL





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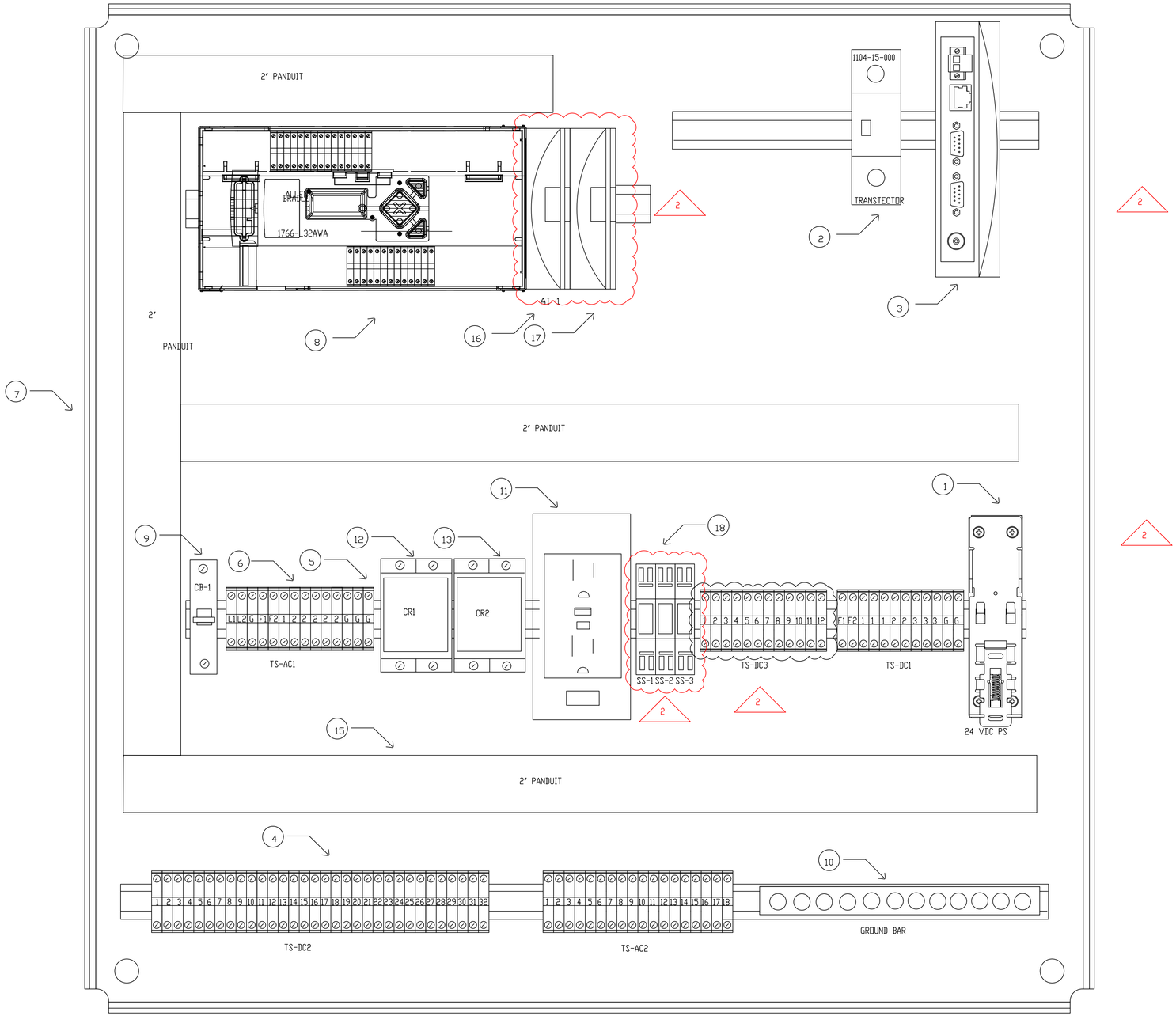
E-02
SHT 2

EAST 13TH ST
POWER PANEL WIRING



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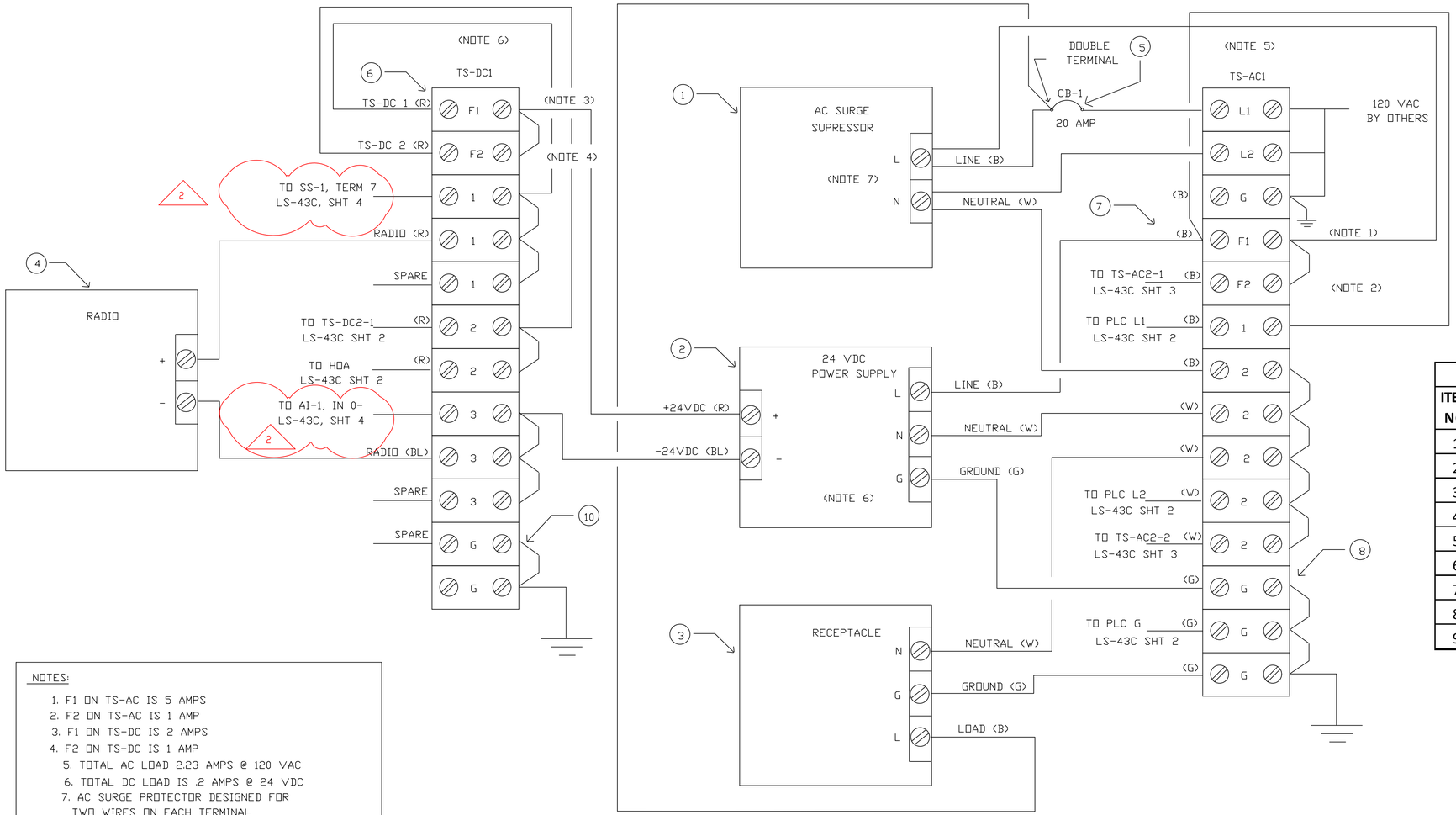
E-03
SHT 1

EAST 13TH ST SCADA PANEL



NOTES:

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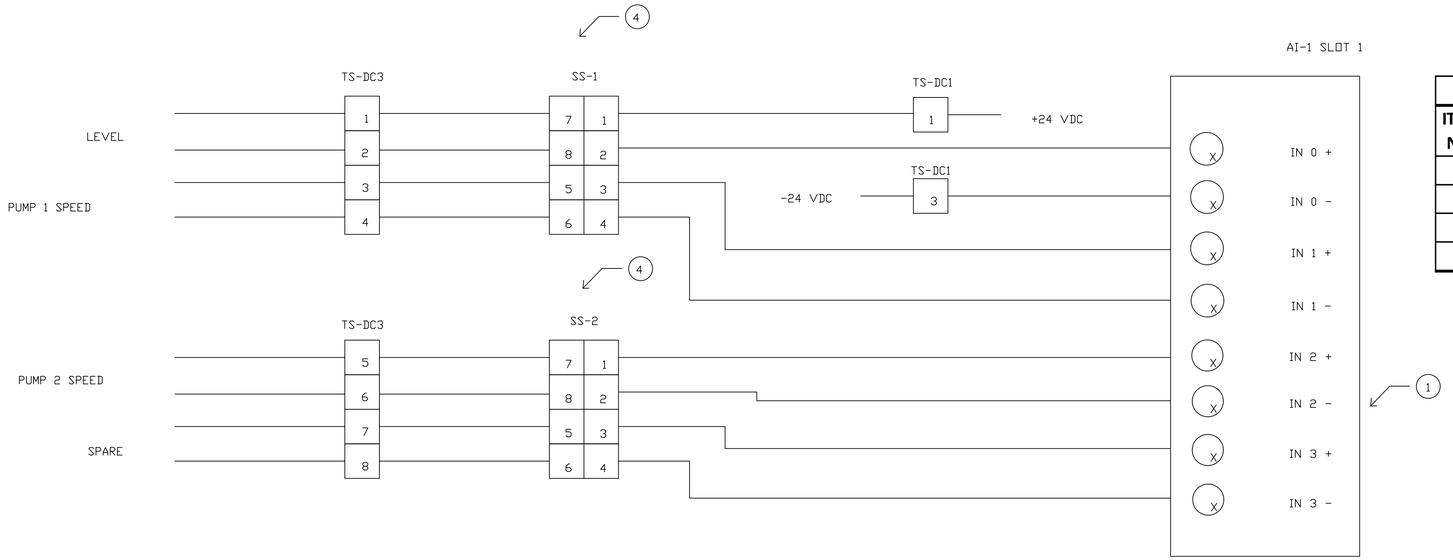
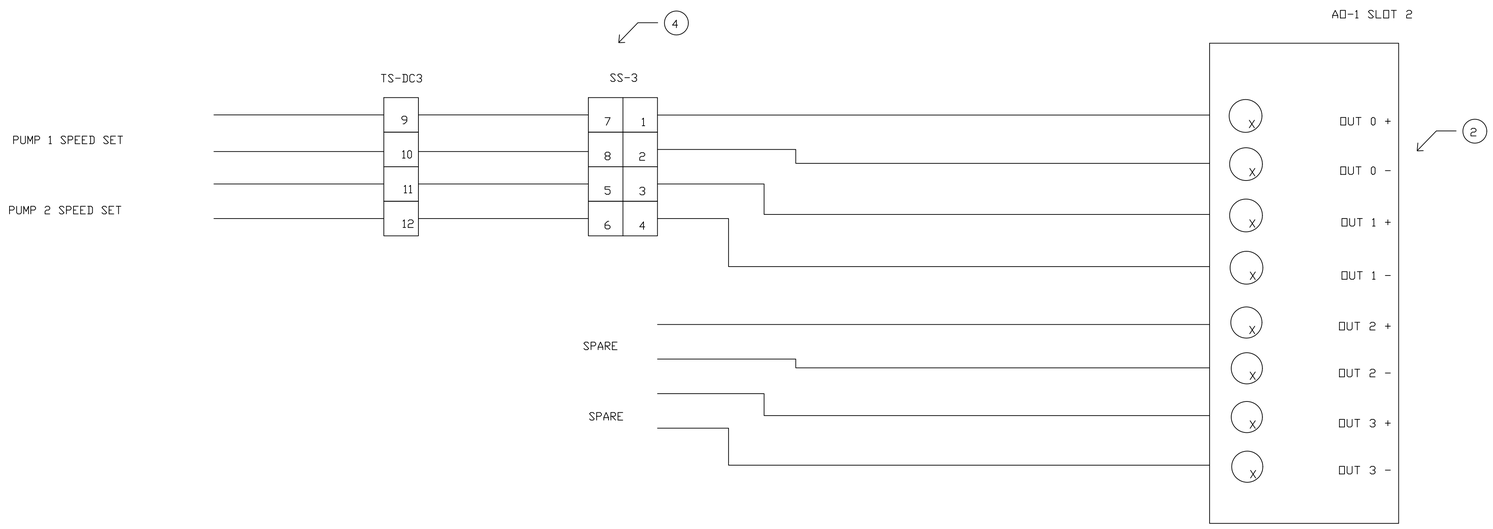
EAST 13TH ST
SCADA PANEL





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E-03
SHT 3

EAST 13TH ST SCADA PANEL