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SEWERAGE AND WATER BOARD OF NEW ORLEANS

ENGINEERING DEPARTMENT

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

THIS ACKNOWLEDGES THAT THE ATTACHED DRAWINGS HAVE BEEN RECEIVED BY THE SEWERAGE & WATER BOARD OF NEW ORLEANS AND HEREBY FORWARDED FOR PROCUREMENT. THE SEWERAGE & WATER BOARD OF NEW ORLEANS DOES NOT RELEASE CONSULTANT/DESIGNER FROM ANY LEGAL LIABILITY THAT MAY ARISE FROM THE BOARD'S ACCEPTANCE OR USE OF THE ATTACHED DRAWINGS FOR THEIR INTENDED PURPOSE.

GENERAL SUPERINTENDENT



LOCATION PLAN
SCALE: 1"=2,000'

Infinity Engineering Consultants, LLC
Civil∞Structural∞Mechanical∞Electrical∞Marine∞Transportation
Metairie, LA www.infinityec.com 504-304-0548

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe0046278
PROFESSIONAL ENGINEER
4/30/2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

COVER SHEET

PROJECT NO: 21163	DESIGNED BY: W.EDGERTON	DR. A.COUTURE	G-00-001
SUBMISSION: CONTRACT DRAWINGS		TRC. -	
CAD COORD: A.COUTURE		CK. D.STILES	
		AP. S.HALLOWELL	DWG. No. 12221-W-33
		SCALE: AS NOTED	
		DATE: APRIL 2025	SET NO. SHEET NO. 1 of 92

DRAWING INDEX

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~~PR-00-010~~	~~NOT USED~~
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REV.	DATE	DESCRIPTION	BY
3			
2			
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DRAWING INDEX

DR. A.COUTURE	
TRC. -	
CK. D.STILES	
AP. S.HALLOWELL	
PROJECT NO: 21163	DESIGNED BY: W.EDGERTON
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025

G-00-002

DWG. No. 12221-W-33

SET NO. | SHEET NO. 2 of 92

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SCALE HOUSE
(AREA CODE 94)

WASTE DRYING FACILITY
(AREA CODE 24)

PROJECT TBM #19
CROSS CUT
EL.=6.11

LAYDOWN/STAGING
AREA, TYP

PROJECT TBM #2003
CROSS CUT
EL.=-0.07

CP103

CP102

WEST SEWAGE
CHANNEL

RAW SEWAGE
CHANNELS
(AREA CODE 30)

STORMWATER
PUMPING SYSTEM
(AREA CODE 92)

ASH DRYING BEDS
(AREA CODE 22)

MATERIAL
STORAGE

OXYGEN PLANT
(AREA CODE 45)

OXYGEN REACTORS
(AREA CODE 40)

STORAGE BUILDING
(AREA CODE 88)

MS9

B-3

B-4

FLOW METER VAULT NO. 3
(AREA CODE 14)

BID ALTERNATE "B"

NORTH RAS
PUMP STATION
(AREA CODE 52)

PLANT SHOP AND
EMPLOYEES BUILDING
(AREA CODE 86)

MS10

B-2

HEADWORKS/
GRIT BASINS
(AREA CODE 20)

MS8

EAST SEWAGE
CHANNEL

TP-10

MS7

FLOW METER
VAULT NO. 1
(AREA CODE 10)

GREASE
CONCENTRATOR STATION
(AREA CODE 56)

BID ALTERNATE "C"

ENGINEERING BUILDING
(AREA CODE 84)

MS11

SOLIDS
HANDLING
BUILDING
(AREA
CODE 72)

SEDIMENTATION
BASIN NO. 2
(AREA CODE 66)

SECONDARY
CLARIFIER NO 2
(SCL-2)
(AREA CODE 50)
SCUM PUMPING
STATION NO.2

SECONDARY
CLARIFIER NO 4
(SCL-4)
(AREA CODE 50)
SCUM PUMPING
STATION NO.4

MS13

SECONDARY
CLARIFIER NO 6
(SCL-6)
(AREA CODE 50)
SCUM PUMPING
STATION NO.6

SECONDARY
CLARIFIER NO 8
(SCL-8)
(AREA CODE 50)
SCUM PUMPING
STATION NO.8

MS14

ADMIN BUILDING
(AREA CODE 82)

SEDIMENTATION
BASIN NO. 1
THICKENED SLUDGE
STORAGE TANK
(AREA CODE 66)

MS6

SODIUM
HYPOCHLORITE
DISINFECTION
SYSTEM
(AREA CODE 62)

TP-5

TP-4

TP-8

TP-9

TP-7

PROJECT TBM #2002
CROSS CUT
EL.=2.12

MS1

MS12

SCUM PUMPING
STATION NO.1
SECONDARY
CLARIFIER NO 1
(SCL-1)
(AREA CODE 50)

SCUM PUMPING
STATION NO.3
SECONDARY
CLARIFIER NO 3
(SCL-3)
(AREA CODE 50)

SCUM PUMPING
STATION NO.5
SECONDARY
CLARIFIER NO 5
(SCL-5)
(AREA CODE 50)

SCUM PUMPING
STATION NO.7
SECONDARY
CLARIFIER NO 7
(SCL-7)
(AREA CODE 50)

MS2

MS5

WAS
STORAGE TANK
(AREA CODE 66)

MS3

MS4

MS16

CP101

CP100

BID ALTERNATE "A"

FLOW METER
VAULT NO.2
(AREA CODE 12)

SECURITY GUARD BUILDING
(AT MAIN ENTRANCE)
(AREA CODE 96)

DIESEL FUEL
STORAGE FACILITY
(AREA CODE 78)

EMERGENCY
GENERATOR BUILDING
(AREA CODE 76)

ELECTRICAL BUILDING
AND TRANSFORMERS
(AREA CODE 74)

EFFLUENT PUMP STATION AND
ELECTRICAL CONTROL BUILDING
(AREA CODE 70)

EXISTING FERRETER CHEMICAL
FEED SYSTEM CANOPY
SLUDGE THICKENER/POLYMER
CHEMICAL FEED SYSTEM
(AREA CODE 64)

SOUTH RAS
PUMP STATION
(AREA CODE 54)

EFFLUENT CHANNEL
(AREA CODE 60)

FLOOD PERIMETER WALL
(AREA CODE 99)

LIQUID SLUDGE/SEPTAGE FACILITY
(AREA CODE 68)

SCOPE OF WORK TO BE PERFORMED
UNDER SEPARATE CONTRACT 1B -
SOLIDS HANDLING UPGRADE.

SHEET CONTAINS BID ALTERNATES

SHEET TYPE DESIGNATORS:

0 - GENERAL, SYMBOLS, LEGENDS, NOTES, ABBREVIATIONS, HYDRAULIC PROFILE, PROCESS FLOW DIAGRAMS, PROCESS FLOW SCHEMATICS, CHEMICAL SCHEMATICS, I&C NETWORK DIAGRAMS, I&C LOOP DIAGRAMS, ELECTRICAL SINGLE LINE DIAGRAMS

1 - PLANS (EXISTING/DEMOLITION AND MODIFICATIONS)

2 - ELEVATIONS

3 - SECTIONS

4 - ENLARGED PLANS/ELEVATIONS/SECTIONS

5 - TYPICAL DETAILS

6 - SCHEDULES, ALL OTHER DIAGRAMS, ALL OTHER SCHEMATICS

7 - USER DEFINED (NOT USED)

8 - USER DEFINED (NOT USED)

9 - ISOMETRICS, PERSPECTIVES, PHOTOGRAPHS

DISCIPLINE DESIGNATOR | FACILITY CODE | SHEET TYPE | SEQUENCE NUMBER

PR-15-101

SITE KEY PLAN & FACILITIES CODES

SCALE: 1"=60'

0 60 120

NOTES:

THIS SHEET CONTAINS BID ALTERNATE "A", "B", AND "C" ITEMS AS DESCRIBED IN SPECIFICATION SECTION 01100 - ALTERNATES.

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE IA
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STEVEN CHARLES HALLOWELL
License No. PE046278
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4/30/2025

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SITE KEY PLAN AND FACILITIES CODES

DR. C.HINKLEY			G-00-101
TRC. -			
CK. W.EDGERTON			
PROJECT NO: 21163	DESIGNED BY: S.HALLOWELL	AP. S.HALLOWELL	DWG. No. 12221-W-33
SUBMISSION: CONTRACT DRAWINGS		SCALE: AS NOTED	
CAD COORD: A.COUTURE		DATE: APRIL 2025	SET NO. SHEET NO. 3 of 92

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LEGEND

EXISTING		PROPOSED
	PROPERTY/ROW LINE	
	SETBACK LINE	
	EASEMENT LINE	
	CENTERLINE	
	EDGE OF PAVEMENT	
	CURBING	
	EDGE OF GRAVEL	
	EDGE OF CONCRETE	
—122—	CONTOUR	123
	BUILDING	
	STONEWALL	
	TREELINE	
	CHAIN LINK FENCE	
	STOCKADE FENCE	
X X	BARB WIRE FENCE	
	RETAINING WALL	
	GUARDRAIL	
8" S	SEWER	8"S
4" FM	SEWER FORCE MAIN	4"FM
4" G	GAS	
8" W	WATER	8"W
15" SD	STORM DRAIN	
6" UD	UNDERDRAIN	
12" CMP	CULVERT	
UGE UGE	UNDERGROUND ELECTRIC	UGE UGE
OHE OHE	OVERHEAD ELECTRIC	
UGT UGT	UNDERGROUND TELEPHONE	
CATV CATV	UNDERGROUND CABLE TV	
	IRON PIPE/REBAR	
	DRILLHOLE	
	MONUMENT	
	SURVEY CONTROL POINT	
124.6	SPOT ELEVATION	X 134.5
SMH	SEWER MANHOLE	
DMH	DRAINAGE MANHOLE	
CB CB CB / EMH	CATCH BASIN	
TMH	ELECTRIC MANHOLE	
T	TELEPHONE MANHOLE	
	SHUTOFF VALVE	
	WATER SERVICE SHUTOFF	
	YARD HYDRANT	
	HYDRANT	
	GAS SERVICE SHUTOFF	
	GAS GATE VALVE	
	UTILITY POLE	
	UTILITY POLE W/ GUY	
	UTILITY POLE W/ LIGHT	
	LIGHT POLE	
	BOLLARD	
	FLAGPOLE	
	CONIFEROUS TREE	
	DECIDUOUS TREE	
	SHRUB	
	WETLAND FLAG	
	EDGE OF WATER	
	STREAM	
	EDGE OF WETLANDS	
	FLOODPLAIN	
	WETLANDS	
	DRAINAGE FLOW	
	DRAINAGE SWALE	
	PAVEMENT MARKINGS	
	SIGN	
MB	MAILBOX	
	TEMPORARY BENCH MARK	
TP	TEST PIT	
B	TEST BORING	
P	TEST PROBE	
MW	MONITORING WELL	
	LIMIT OF WORK	
	SILT FENCE	
	RIPRAP	
	RAILROAD	
	MATCHLINE	
	ROCK OUTCROP	
	HEAVY DUTY PAVEMENT	
	ASPHALT CONCRETE PAVEMENT	
	WALKWAY PAVEMENT	
128.11 X	PIPE SPOT ELEVATION	X
6"XX	CULVERT/UNDERDRAIN	
6"XX / 30"XX	PIPING	6"XX / 30"XX
	LARGE DIA PIPING (18"+)	
6"XX (AB)	PIPE PREVIOUSLY ABANDONED	
6"XX	PIPING TO BE DEMOLISHED	
6"XX	PIPING TO ABANDON	

"XX" DENOTES PIPE DESCRIPTION
SEE LIST OF CIVIL ABBREVIATIONS FOR PIPE DESCRIPTIONS

GENERAL NOTES

1. THE OWNER WILL BE RESPONSIBLE FOR OBTAINING THE PERMITS LISTED IN THE SUPPLEMENTARY OR SPECIAL CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH PERMIT AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL OBTAINED PERMITS ARE AVAILABLE FOR REVIEW FROM THE OWNER. ALL OTHER PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
2. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
3. CONTRACTOR SHALL COMPLY WITH THE COORDINATION REQUIREMENTS AND RELATED COSTS, IF ANY, AS SPECIFIED IN SPECIFICATION SECTION 01050.
4. CONTRACTOR SHALL NOTE THAT, IN GENERAL, ALL EXISTING CONDITION INFORMATION ON THE DRAWINGS ARE SHOWN WITH A LIGHTER LINE WEIGHT AND WITH A SLANTED TYPE TEXT.

EXISTING SITE CONDITIONS

1. THE LOCATIONS OF UNDERGROUND UTILITIES AND STRUCTURES, AS SHOWN ON THE DRAWINGS, ARE APPROXIMATE AND MAY NOT BE COMPLETE. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE BASED ON PREVIOUS CONSTRUCTION DESIGN PLANS, WHICH ARE AVAILABLE FOR INSPECTION AT THE ENGINEER'S OFFICE. NO GUARANTEE IS MADE THAT UTILITIES OR STRUCTURES WILL BE ENCOUNTERED WHERE SHOWN, OR THAT ALL UNDERGROUND UTILITIES AND STRUCTURES ARE SHOWN. ALL LOCATIONS AND SIZES OF EXISTING UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD WITH TEST PITS AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION OF NEW FACILITIES OR PIPING THAT MAY BE AFFECTED. THE CONTRACTOR WILL REALIGN NEW PIPE LOCATIONS AS REQUIRED TO CONFORM TO EXISTING LINES AND AS APPROVED BY THE ENGINEER.
2. BELOW GRADE UTILITY INFORMATION IS BASED ON INFORMATION PROVIDED BY EACH UTILITY. LOCATION OF PUBLIC UTILITIES SHOWN IS ONLY APPROXIMATE AND MAY NOT BE COMPLETE. PRIVATE UNDERGROUND UTILITIES SUCH AS, BUT NOT LIMITED TO, SEWER LINES, WATER LINES AND BURIED ELECTRICAL SERVICE ENTRANCES ARE NOT SHOWN. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION AND SIZE OF EXISTING UTILITIES IN THE FIELD WITH THE RESPECTIVE UTILITY COMPANY REPRESENTATIVE PRIOR TO COMMENCING WORK. REFER TO SPECIFICATION SECTION 01050. ADDITIONAL TEST PITS, BEYOND THOSE SHOWN, MAY BE REQUIRED. UTILITY CONTACTS ARE AS FOLLOWS:

EAST BANK STP:
TEL: 504.277.5400

ELECTRIC:
ENTERGY NEW ORLEANS, LLC
TEL: 800.968.9243

WATER & SEWER:
SEWERAGE & WATER BOARD OF NEW ORLEANS
TEL: 504.529.2837

CABLE (SPECTRUM):
TEL: 504.577.2806

LOUISIANA 811 (CALL BEFORE YOU DIG):
TEL: 800.272.3020

TELEPHONE:
(INSERT PHONE)

OTHER:
(INSERT PHONE)

GAS:
(INSERT PHONE)

SITE DEMOLITION

1. A SOLID GREY HATCH HIGHLIGHTS AND REPRESENTS DEMOLITION ON AN ITEM(S) IN THE AREA ASSOCIATED WITH THE HATCH.
2. REFER TO THE EXISTING SITE PLAN, FOR ADDITIONAL INFORMATION REGARDING EXISTING FACILITIES. REFER TO THE LAYOUT DRAWING FOR LIMITS OF WORK.
3. REFER TO STRUCTURAL, PROCESS, MECHANICAL, INSTRUMENTATION AND ELECTRICAL DRAWINGS FOR SPECIFIC INFORMATION REGARDING DEMOLITION AND REMOVAL.
4. REFER TO SPECIFICATION SECTION 01010A, WHICH CONTAINS INFORMATION ON CONSTRAINTS OF CONSTRUCTION SEQUENCING.
5. DEMOLISH/REMOVE EXISTING PIPING AS REQUIRED FOR CONSTRUCTION OF NEW FACILITIES. ALL PIPING, EQUIPMENT AND MATERIALS TO BE DEMOLISHED AND/OR REMOVED FROM SERVICE SHALL BE COORDINATED WITH THE OWNER AND ENGINEER BEFORE COMMENCING THAT WORK. EXISTING PIPING THAT NEEDS TO BE REMOVED TO CONSTRUCT THE NEW FACILITIES, BUT IS TO REMAIN, SHALL BE REINSTALLED/REPLACED AS NEEDED. EXISTING PIPES AND CONDUIT DESIGNATED AS "ABANDONED" MAY BE REMOVED IF THE CONTRACTOR SO CHOOSES. IF ABANDONED PIPE CONFLICTS WITH NEW SITE PIPING OR FACILITIES, THEN A PORTION OF THE ABANDONED PIPE SHALL BE REMOVED, AND THE NEW ENDS OF ABANDONED PIPE CAPPED OR PLUGGED WITH CONCRETE.
6. ALL EXISTING PIPING AND UTILITIES WHICH ARE BENEATH PROPOSED STRUCTURES, AND ARE TO BE ABANDONED, SHALL BE REMOVED TO A MINIMUM OF 5-FEET OUTSIDE OF THE STRUCTURE. PIPE AND UTILITIES BENEATH PROPOSED STRUCTURES THAT ARE TO REMAIN SHALL BE CONCRETE ENCASED, UNLESS OTHERWISE INDICATED. REFER TO THE STRUCTURAL DRAWINGS FOR DETAILS.
7. SEVERING OF EXISTING UTILITIES FOR ABANDONMENT, OR REMOVAL OF A SEGMENT FROM SERVICE, SHALL BE PERFORMED IN SUCH A MANNER AS TO ALLOW THE REMAINING ACTIVE SEGMENT TO CONTINUE IN ITS INTENDED SERVICE. CAP ACTIVE SEGMENTS WITH APPROPRIATE FITTINGS, JOINT RESTRAINT, ETC. TO ENSURE THEIR INTEGRITY. PLUG ENDS OF ABANDONED PIPE SEGMENTS WITH CONCRETE UNLESS SPECIAL CIRCUMSTANCES DICTATE PLUGGING ABANDONED PIPES WITH BLIND FLANGES, RESTRAINED MECHANICAL JOINT PLUGS, ETC. AS APPROPRIATE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL DEMOLISHED PIPING, EQUIPMENT AND MATERIALS. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS. THE OWNER RESERVES THE RIGHT TO RETAIN ANY SUCH PIPING, EQUIPMENT AND MATERIALS DESIGNATED FOR DEMOLITION. SUCH MATERIALS TO BE RETAINED SHALL BE PROPERLY STORED IN AN ON-SITE LOCATION. COORDINATE LOCATION AND MATERIALS TO BE SALVAGED WITH THE OWNER/ENGINEER. REFER TO SPECIFICATION SECTION 02050A.
9. THE CONTRACTOR SHALL KEEP A RECORD OF DEMOLITION AS PART OF THE PROJECT RECORD DOCUMENTS IN ACCORDANCE WITH SPECIFICATION SECTION 01720.
10. THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO ENSURE THAT ALL PROCESS FLOWS ARE MAINTAINED DURING CONSTRUCTION. GRAVITY OR PUMPED BYPASSES AND OTHER MEANS OF MAINTAINING FLOW SHALL BE SUBJECT TO THE REVIEW AND ACCEPTANCE OF THE ENGINEER. THE CONTRACTOR SHALL COORDINATE ANY TEMPORARY STOPPAGES OR BYPASSES WITH THE OWNER AND ENGINEER. FEDERAL AND STATE REGULATIONS REQUIRE THAT THE TREATMENT FACILITY REMAIN IN OPERATION (ALL TREATMENT, DISINFECTION, SLUDGE HANDLING AND DISPOSAL PROCESSES) THROUGHOUT CONSTRUCTION, AND THAT DISCHARGE PERMITS ARE MET. REFER TO SPECIFICATION SECTION 01010A.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE APPROPRIATE DISPOSAL OF FLOWS RESULTING FROM PRECIPITATION AND GROUNDWATER DEWATERING OPERATIONS.

SITE CLEARING, GRUBBING AND GRADING

1. STRIPPING OF TOPSOIL (LOAM) SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02115. REFER TO THE LAYOUT AND GRADING DRAWINGS FOR LIMIT OF WORK AND STRIPPING.
2. CONTRACTOR SHALL PROVIDE PROPER EROSION CONTROL AND DRAINAGE MEASURES IN ALL AREAS OF WORK, AND CONFINE SOIL SEDIMENT TO WITHIN THE LIMITS OF EXCAVATION AND GRADING. PRIOR TO BEGINNING EXCAVATION WORK, EROSION CONTROL FENCE SHALL BE INSTALLED AT THE DOWN GRADIENT PERIMETER OF THE ACTUAL LIMITS OF GRUBBING AND/OR GRADING, AND AS SHOWN ON THE DRAWINGS. EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE A MINIMUM, CONTRACTOR SHALL TAKE ALL OTHER NECESSARY MEASURES. EROSION CONTROL FENCE SHALL ALSO BE INSTALLED AT THE DOWN GRADIENT PERIMETER OF THE TOPSOIL STOCKPILES. ALL DISTURBED EARTH SURFACES SHALL BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY EROSION CONTROL DEVICES SHALL BE EMPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIAL SHALL BE STABILIZED IN A MANNER THAT WILL MINIMIZE EROSION. ALL INSTALLED EROSION CONTROL FACILITIES SHALL BE REMOVED AT THE END OF THE PROJECT. REFER TO SPECIFICATION SECTION 02000.
3. ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY HAY BALE FILTERS TO PREVENT ENTRY OF SEDIMENT FROM RUNOFF WATERS DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL COLLECTED SEDIMENT, AND THAT WHICH COLLECTS IN THE STORM DRAIN SYSTEM. REFER TO THE CIVIL DETAIL DRAWINGS.
4. THE GEOTECHNICAL DATA REPORT FOR THE PROJECT SITE IS INCLUDED IN APPENDIX A AND IS DESCRIBED IN SPECIFICATION SECTION 00800 (SUPPLEMENTAL CONDITIONS).
5. CONTRACTOR SHALL CONTROL DUST ON THE CONSTRUCTION SITE TO A REASONABLE LIMIT, AS DETERMINED BY THE ENGINEER, AND AS OUTLINED IN SPECIFICATION SECTION 01562.
6. CONTRACTOR SHALL NOT TRACK OR SPILL EARTH, DEBRIS OR OTHER CONSTRUCTION MATERIAL ON PUBLIC OR PRIVATE STREETS AND PLANT DRIVES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE ASSOCIATED CLEAN UP.
7. ALL CATCH BASINS, MANHOLES, VALVE PITS, VALVE BOXES AND OTHER BURIED FACILITIES WITH SURFACE ACCESS SHALL BE ADJUSTED TO MATCH FINAL GRADES, UNLESS OTHERWISE INDICATED.
8. THE CONTRACTOR SHALL NOT HAVE ANY RIGHT OF PROPERTY IN ANY MATERIALS TAKEN FROM ANY EXCAVATION. SUITABLE EXCAVATED MATERIAL MAY BE INCORPORATED IN THE PROJECT, WITH EXCESS MATERIAL DISPOSED OF AT A LOCATION PROVIDED BY THE CONTRACTOR. THESE PROVISIONS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF OBLIGATIONS TO PROPERLY DISPOSE OF AND REPLACE ANY MATERIAL DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE AND EXCESS MATERIAL IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CONTRACT DOCUMENTS.
9. CONTRACTOR SHALL REMOVE AND REPLACE, OR REPAIR, ALL CURBS, SIDEWALKS, PAVEMENT AND OTHER ITEMS DAMAGED BY CONSTRUCTION ACTIVITIES TO AT LEAST THEIR ORIGINAL CONDITION, TO THE SATISFACTION OF THE OWNER AND ENGINEER.
10. WHERE EXISTING PAVEMENT IS REMOVED AND REPLACED, MATCH EXISTING GRADES TO THE EXTENT POSSIBLE. COORDINATE FINE GRADING WITH THE ENGINEER.
11. ALL ROAD AND DRIVE CROSS SLOPES SHALL PITCH 1/4-INCH PER FOOT MINIMUM. ALL PAVED SURFACES SHALL PITCH 1% UNLESS OTHERWISE NOTED. REFER TO THE CIVIL DETAIL DRAWINGS.
12. ALL NON-ROADWAY AREAS THAT ARE EXCAVATED, FILLED, OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE LOAMED, GRADED, LIMED, FERTILIZED, SODDED AND MULCHED, UNLESS OTHERWISE NOTED. THE TOP 4-INCHES OF SOIL SHALL BE LOAM. REFER TO SPECIFICATION SECTION 02485, LANDSCAPING/LOAM AND SOD.

CIVIL SITE LAYOUT

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THIS PROVIDED LAYOUT INFORMATION THROUGHOUT THE COURSE OF CONSTRUCTION. REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
2. REFER TO THE SITE PIPING AND SITE GRADING DRAWINGS FOR ADDITIONAL LAYOUT INFORMATION.
3. CONTRACTOR SHALL EXCAVATE TEST PITS, WHERE NECESSARY, PRIOR TO CONSTRUCTION LAYOUT AND RESULTS REPORTED TO THE ENGINEER FOR REVIEW FOR CONFORMANCE TO THE PLANS. TEST PITS ARE REQUIRED WHERE SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
4. IN GENERAL, THE GIVEN STRUCTURE LOCATIONS ARE TO THE OUTSIDE FACE OF THE STRUCTURE FOUNDATION WALL, NOT FOOTINGS. REFER TO THE STRUCTURAL DRAWINGS FOR BUILDING AND STRUCTURE DIMENSIONS. RADII SHOWN FOR ROADS ARE TO EDGE OF PAVEMENT.
5. PLACE CRUSHED STONE MOWING STRIP AROUND THOSE STRUCTURES AS INDICATED ON THE DRAWINGS. REFER TO THE CIVIL DETAIL DRAWINGS.
6. THE LOCATIONS AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO, THE OWNER AND ENGINEER. THE CONTRACTOR SHALL LIMIT ACTIVITIES TO THESE AREAS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING AND RESETTING ALL EXISTING PROPERTY MONUMENTATION DISTURBED BY CONSTRUCTION. THIS WORK SHALL BE DONE BY A LAND SURVEYOR REGISTERED IN THE STATE OF LOUISIANA, AT NO ADDITIONAL COST TO THE OWNER.
8. WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE DISTANCES FROM THE DRAWINGS. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
9. BOLLARD LOCATIONS SHOWN ARE APPROXIMATE. COORDINATE BOLLARD LOCATIONS WITH THE ENGINEER. REFER TO THE CIVIL DETAIL DRAWINGS.
10. ALL ELEVATIONS REFER TO THE NAVD88 DATUM UTILIZING GEOD18. THEY ARE DERIVED FROM GPS OBSERVATIONS REFERENCED TO LOUISIANA STATE UNIVERSITY CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) NETWORK. ORIENTATION IS GRID NORTH ON THE NAD83 LOUISIANA SOUTHERN ZONE, STATE PLANE, US FOOT, COORDINATE SYSTEM. PROJECT BENCH MARKS ARE SHOWN ON THE DRAWINGS. CONTRACTOR SHALL VERIFY BENCHMARK ELEVATIONS PRIOR TO USING IN CONSTRUCTION.
11. EXISTING CONDITIONS SITE PLAN IS BASED ON SURVEY DRAWING AND EXISTING RECORD DRAWING INFORMATION.

CIVIL SITE PIPING

1. PROCESS FLOW DIAGRAM AND PIPING LEGEND ARE ON THE PROCESS DRAWINGS. THE PROCESS PIPING SCHEDULE AND ADDITIONAL PIPING NOTES ARE LOCATED IN SPECIFICATION SECTION 15050.
2. ALL PIPE LINES SHALL SLOPE UNIFORMLY BETWEEN ELEVATIONS INDICATED ON THE DRAWINGS. NO CRESTS IN PIPING WILL BE PERMITTED. CONCRETE THRUST BLOCKS OR OTHER ACCEPTABLE RESTRAINT SYSTEM IS REQUIRED ON ALL FITTINGS ON PRESSURE PIPE. WHERE A RESTRAINED JOINT SYSTEM IS USED, THE NUMBER OF PIPES WITH RESTRAINED JOINTS ON EITHER SIDE OF THE FITTING SHALL BE DESIGNED TO REFLECT THE PROJECT SOIL CONDITIONS AND PEAK SURGE PRESSURE IN THE PIPING SYSTEM. SEE THE CIVIL DETAIL DRAWINGS FOR THRUST BLOCK DETAILS. PROVIDE ALL BENDS (HORIZONTAL AND VERTICAL) AS REQUIRED TO MEET THE GRADES AND ALIGNMENT INDICATED ON THE DRAWINGS.
3. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION AND SIZE OF EXISTING PIPING AND UTILITIES IN THE FIELD BY TEST PIT EXCAVATION PRIOR TO COMMENCING INSTALLATION OF ANY OF THE NEW PIPING AFFECTED. WHERE NEW PIPE CONNECTS TO EXISTING PIPING OR STRUCTURAL PENETRATION, CONTRACTOR SHALL VERIFY ELEVATION BY TEST PIT, AS REQUIRED, PRIOR TO INSTALLATION OF ANY OF THE ASSOCIATED/AFFECTED NEW PIPING. IDENTIFIED CONFLICTS WITH EXISTING PIPING AND UTILITIES WILL BE REVIEWED WITH THE ENGINEER PRIOR TO COMMENCING INSTALLATION. THE HORIZONTAL ALIGNMENT OF NEW PIPING MAY BE ADJUSTED IN THE FIELD SUBJECT TO PRIOR REVIEW AND ACCEPTANCE OF THE ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF ALL PROPOSED WORK AS SHOWN ON THE DRAWINGS AND REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
4. ALL WASTEWATER PIPING (EXCLUDING BUILDING DRAINS) AND ALL PRESSURIZED PIPES (I.E. PLANT WATER, CITY WATER, SOLUTION LINES, HEAT, ETC.) INSTALLED BENEATH STRUCTURES SHALL BE ENCASED IN CONCRETE. SEE STRUCTURAL DRAWING FOR DETAILS.
5. ALL BURIED CONNECTIONS TO STRUCTURES SHALL HAVE SLEEVE TYPE FLEXIBLE CONNECTIONS APPROXIMATELY 4-FEET FROM THE STRUCTURES. ALL SLEEVE TYPE COUPLINGS ON PRESSURE LINES SHALL BE RESTRAINED (SOLID SLEEVE). REFER TO SPECIFICATION SECTION 15088.
6. PROVIDE CAST OR DUCTILE IRON WALL CASTINGS, OR GALVANIZED STEEL PIPE SLEEVES, FOR ALL PIPE PENETRATIONS MADE THROUGH NEW CONCRETE FOUNDATIONS, WALLS AND SLABS. ALL WALL SLEEVES AND WALL CASTINGS SHALL HAVE WATERSTOPS. SEE PROCESS, MECHANICAL AND STRUCTURAL DRAWINGS FOR LOCATIONS OF PENETRATIONS. NEW PENETRATIONS THROUGH EXISTING STRUCTURE WALLS SHALL BE BY CORING MACHINE AND LINK-TYPE SEALS, UNLESS OTHERWISE INDICATED. OPENINGS TO BE COMPATIBLE WITH REQUIRED PIPING AND STANDARD LINK SEAL SIZES. SEE PROCESS DETAIL DRAWINGS. REFER TO SPECIFICATION SECTION 15092.
7. MANHOLES ARE 4-FEET IN DIAMETER UNLESS OTHERWISE NOTED. THE TOP OF MANHOLE FRAMES SHALL BE SET FLUSH WITH FINISH GRADE, UNLESS OTHERWISE NOTED ON DRAWINGS. SEWER MANHOLE INVERTS SHOWN ON THE DRAWINGS ARE TO THE INSIDE FACE OF THE MANHOLE.
8. PIPES WITHIN VALVE PITS (MANHOLES) SHALL BE SUPPORTED 12-INCHES ABOVE BOTTOM OF MANHOLE ON ADJUSTABLE PIPE SADDLE SUPPORTS, IN ACCORDANCE WITH SPECIFICATION SECTION 15094, UNLESS OTHERWISE INDICATED.
9. CONTRACTOR SHALL RE-SHAPE INVERTS AS REQUIRED WHEN CONNECTING INTO EXISTING MANHOLES.
10. REFER TO SPECIFICATION SECTION 02200 FOR PIPE AND STRUCTURE BEDDING AND BACKFILL REQUIREMENTS.
11. COMPACTION TESTS WILL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02200. ANY SETTLEMENT OCCURRING WITHIN ONE-YEAR OF FINAL COMPLETION OF THE WORK SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.
12. OPEN TRENCHES IN THE ROADWAY MUST BE BACKFILLED AT THE END OF THE WORKDAY. OPEN TRENCHES OUTSIDE OF THE ROADWAY MAY BE LEFT OPEN IF THE CONTRACTOR PROVIDES ADEQUATELY SAFE BARRICADING AND LIGHTS.
13. IN THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTICE TO THE RESPECTIVE UTILITY POLE OWNER. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR TEMPORARY BRACING OF UTILITIES.
14. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ADAPTERS, FITTINGS, AND ADDITIONAL PIPE AS REQUIRED TO COMPLETE THE CONNECTION. CONTRACTOR SHALL VERIFY LOCATION, ELEVATION, ORIENTATION AND MATERIAL OF CONSTRUCTION. TEST PITS SHALL BE USED AS REQUIRED.
15. ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE UNLESS OTHERWISE NOTED ON THE CIVIL EXISTING CONDITIONS AND DEMOLITION PLAN. ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
16. WHENEVER SEWER AND WATER MAINS MUST CROSS, WATER LINES SHOULD BE INSTALLED ABOVE WASTEWATER OR SLUDGE LINES. A MINIMUM SEPARATION OF 18-INCHES BETWEEN THE BOTTOM OF THE WATER LINE AND THE TOP OF THE WASTEWATER OR SLUDGE LINE SHALL BE MAINTAINED. WHERE A WATER LINE CROSSES UNDER A WASTEWATER OR SLUDGE LINE, A FULL LENGTH OF PIPE SHALL BE CENTERED ABOVE THE WATER LINE SO THAT BOTH JOINTS WILL BE AS FAR FROM THE WATER LINE AS POSSIBLE.
17. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO ANY TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. DAMAGE TO ANY SUCH STRUCTURES CAUSED BY OR RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ALL UTILITIES REQUIRING REPAIR, RELOCATION OR ADJUSTMENT AS A RESULT OF THE PROJECT SHALL BE COORDINATED THROUGH THE OWNER.
18. PIPING ON THE SITE PIPING PLAN HAS BEEN SHOWN BROKEN FOR CLARITY ONLY. PIPE BREAKS DO NOT INDICATE RELATIVE ELEVATIONS OF PIPING.
19. ELECTRICAL CONDUIT RUNS ARE INDICATED ON THE ELECTRICAL DRAWINGS AND ARE SHOWN IN DASHED/PHANTOM LINEWEIGHT ON THE CIVIL DRAWINGS FOR CONVENIENCE. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION, EXCAVATION AND BACKFILLING REQUIRED FOR THE ELECTRICAL CONDUITS, AND SHALL FURNISH AND INSTALL ELECTRICAL MANHOLES AND HANDHOLES. COORDINATE THE LOCATION OF THE ELECTRICAL MANHOLES AND HANDHOLES, AND THE REQUIRED OPENING SIZES, WITH THE ELECTRICAL CONTRACTOR.
20. WHENEVER PROPOSED STRUCTURES ARE LOCATED PARTLY WITHIN A PAVED AREA AND PARTLY IN A NON-PAVED AREA, A BITUMINOUS CONCRETE PAVED APRON 2-FEET WIDE SHALL BE SUPPLIED AROUND THE PROPOSED COVER. PAVEMENT SHALL SLOPE AWAY FROM THE COVER

CIVIL ABBREVIATIONS

&	AND	DEMO	DEMOLITION	LOC	LOCATION		PERFORATED CLAY	SW	SOUTHWEST
A	AIR	DI	DUCTILE IRON PIPE	LP	LIGHT POLE	PSF	POUNDS PER SQUARE FOOT	SWPP	STORMWATER POLLUTION PREVENTION PLAN
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	DIA, Ø	DIAMETER	MAX	MAXIMUM	PSI	POUNDS PER SQUARE INCH		
		DMH	DRAIN MANHOLE	MH	MANHOLE	PT	POINT OF TANGENCY	TBM	TEMPORARY BENCH MARK
AB	ABANDONED	DR	DRAIN	MICC	MICROBIALLY-INDUCED CORROSION CONTROL	PVC	POLYVINYL CHLORIDE PIPE	TEL	TELEPHONE
ALT	ALTERNATE	DWG	DRAWING			RCP	REINFORCED CONCRETE PIPE	THK	THICKNESS
APP'D	APPROVED	E	EAST	MIN	MINIMUM	RD	ROOF DRAIN	TOC	TOP OF CONCRETE, TOP OF CURB
BLDG	BUILDING	EA	EACH	N/A	NOT AVAILABLE/APPLICABLE	REF	REFERENCE		
BOC	BOTTOM OF CONCRETE, BOTTOM OF CURB	EL/ELEV	ELEVATION	N	NORTH	REINF	REINFORCING	TOS	TOP OF STRUCTURE
		EMH	ELECTRIC MANHOLE	NAVD	NORTH AMERICAN VERTICAL DATUM	REQ'D	REQUIRED	TYP	TYPICAL
BOH	BOTTOM OF HOLE	EOP	EDGE OF PAVEMENT			R/W	RIGHT OF WAY	UD	UNDERDRAIN
BR	BRICK	FFE	FINISH FLOOR ELEVATION	NE	NORTHEAST	S	SEWER, SOUTH, SLOPE		
CB	CATCH BASIN	FM	FORCE MAIN	NGS	NATIONAL GEODETIC SURVEY	SAN	SANITARY		
CEN	CENTER	G	GAS	NGVD	NATIONAL GEODETIC VERTICAL DATUM	SCHED	SCHEDULE		
CIP	CAST IN PLACE	GR	GRADE			SD	STORM DRAIN		
CIPP	CURED-IN-PLACE PIPE	HDPE	HIGH DENSITY POLYETHYLENE	NO, #	NUMBER	SE	SOUTHEAST		
CL	CLEAR, CENTER LINE	HYD	HYDRANT	NTS	NOT TO SCALE	SEC	SECTION		
CMP	CORRUGATED METAL PIPE	IN	INCH	OC	ON CENTER	SF	SQUARE FEET		
CO	CLEANOUT	INF	INFLUENT	OD	OUTSIDE DIAMETER	SMH	SEWER MANHOLE		
CONC	CONCRETE	INV	INVERT ELEVATION	OHE	OVERHEAD ELECTRICAL	SPEC	SPECIFICATION		
COR	CORNER	LBR	LIMEROCK BEARING RATIO	OUC	ORLANDO UTILITIES COMMISSION	SQ	SQUARE		
CTRS	CENTERS	LBS	POUNDS			SS	STAINLESS STEEL		
CY	CUBIC YARD	LF	LINEAL FEET	OUT	OUTFALL	STA	STATION		
				PC	POINT OF CURVATURE,				

UG	UNDERGROUND		
UGE	UNDERGROUND ELECTRIC		
VC	VITRIFIED CLAY		
VF	VERTICAL FOOT		
W	POTABLE WATER, WEST		
W/	WITH		
WWR	WELDED WIRE REINFORCING		
XFMR, T	TRANSFORMER		
YH	YARD HYDRANT		

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

GENERAL NOTES, LEGEND AND ABBREVIATIONS

STATE OF LOUISIANA — STEVEN CHARLES HALLOWELL — License No. Pe0048278 — PROFESSIONAL ENGINEER — 4/30/2025

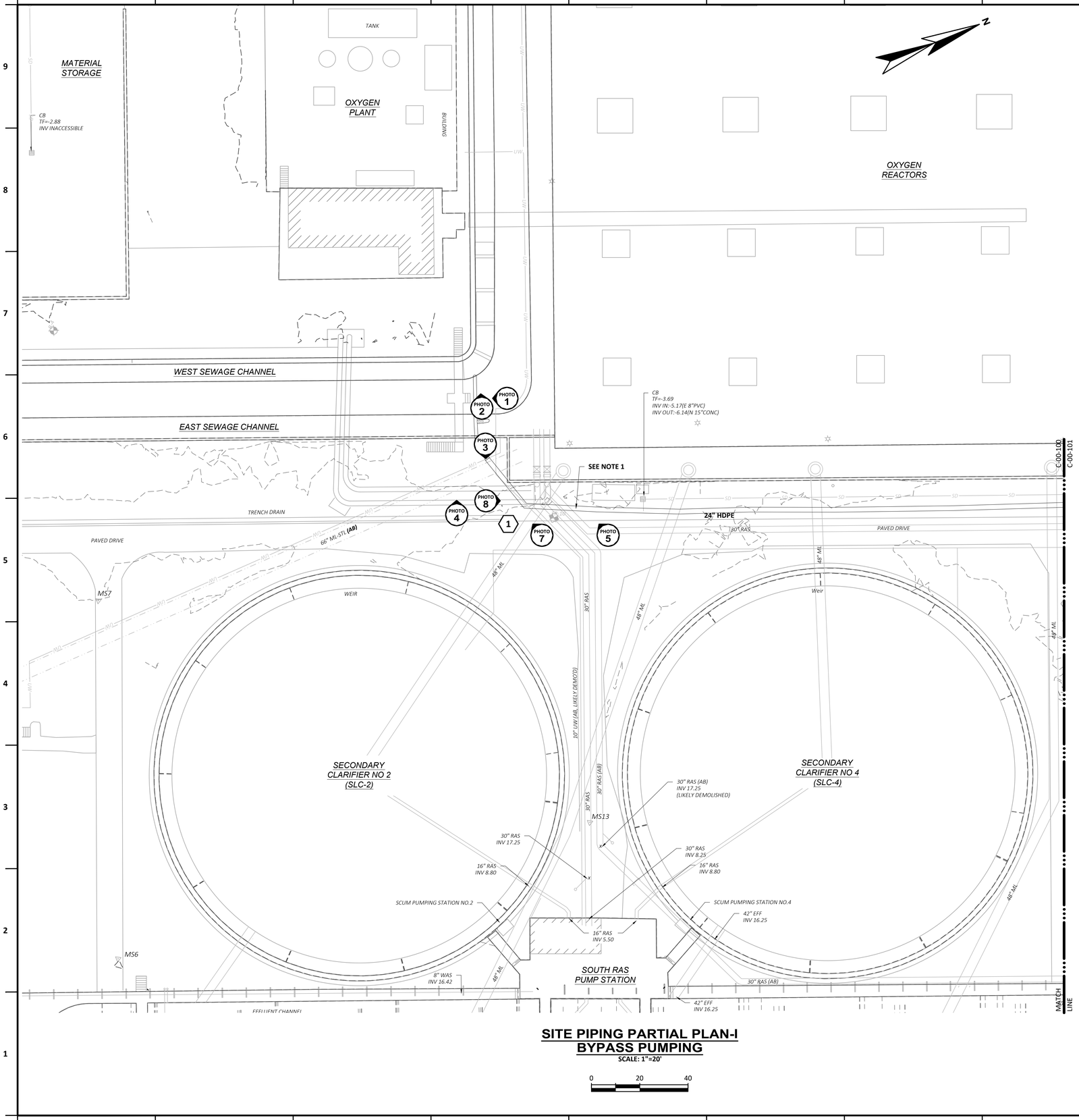
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601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163	DESIGNED BY: S.HALLOWELL	DR. J.MICHAUD	C-00-001
SUBMISSION: CONTRACT DRAWINGS		TRC. -	
CAD COORD: A.COUTURE		CK. W.EDGERTON	
		AP. S.HALLOWELL	DWG. No. 12221-W-33
		SCALE: AS NOTED	
		DATE: APRIL 2025	SET NO. SHEET NO. 4 of 92

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SITE PIPING PARTIAL PLAN-I
BYPASS PUMPING

SCALE: 1"=20'

0 20 40



PHOTO 1



PHOTO 2



PHOTO 3



PHOTO 4

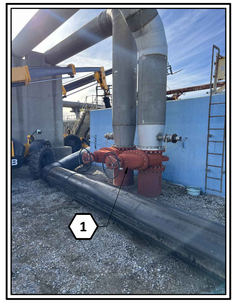


PHOTO 5



PHOTO 7



PHOTO 8

DEMO NOTE:

1 CONTRACTOR TO COORDINATE WITH OWNER/STP OPERATOR TO DRAIN, CUT, REMOVE, AND REINSTALL EXISTING TEMPORARY RAS PIPING (2 LINES, 1 FROM EACH RAS PS'S)AS NECESSARY TO FACILITATE THE NEW WORK (RAS PIPING, ELECTRICAL BUILDING, PILE SUPPORTS, ETC.)

NOTE:

1. **REFER TO TEMPORARY RAS PIPING SCHEMATIC (DWG PR-00-012) FOR ADDITIONAL INFORMATION.**

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe0046278
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		SCALE: AS NOTED	
		DATE: APRIL 2025	SET NO. SHEET NO. 5 of 92

SITE PIPING PARTIAL PLAN - I
BYPASS PUMPING

C-00-100

DWG. No. 12221-W-33

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SEE NOTE 3

24" HDPE

CB
TF=3.40
INV IN:-5.20(E 8"PVC)
INV IN:-6.68(W 15"CONC)
INV IN:-6.71(S 15"CONC)
INV OUT:-6.73(N 15"CONC)

TRENCH DRAIN

PAVED DRIVE

C-00-100
C-00-101

CB
TF=3.50
INV IN:-6.54(N 15"CONC)
INV OUT:-6.64(S 15"CONC)

48" ML

WEIR

48" ML
INV 4.12

24" HDPE

SECONDARY CLARIFIER NO 6 (SCL-6)

SECONDARY CLARIFIER NO 8 (SCL-8)

NORTH RAS PUMP STATION

M515

SEE NOTE 2

12" DR

16" RAS
INV 8.80
12" DR

16" RAS
INV 8.80

SCUM PUMPING STATION NO.8

SEE NOTE 1

12" DI

42" EFF
INV 16.25

SCUM PUMPING STATION NO.6

30" RAS (AB)
INV 8.25

24" HDPE

42" EFF
INV 16.25

30" RAS (AB)
INV 12.00

EFFLUENT CHANNEL

30" RAS (AB)
INV 12.00

42" EFF
INV 16.25

12" DI

12" DI

TEMPORARY RAS PUMP NO. 2

TP-8

TP-7

TP-6

12" DI

SEE NOTE 2

MS14

WEIR

48" ML
INV 6.39

42" EFF
INV 16.25

8" SC
INV 19.50

TP-9

12" DR

16" RAS
INV 8.80

SCUM PUMPING STATION NO.5

B-5
EL.=-1.51'

8" SC
INV 19.50

WEIR

48" ML
INV 4.12

TEMPORARY RAS PUMP NO. 1

42" EFF
INV 16.25

12" DR

16" RAS
INV 8.80

SCUM PUMPING STATION NO.7

PAVED DRIVE

SECONDARY CLARIFIER NO 5 (SCL-5)

SECONDARY CLARIFIER NO 7 (SCL-7)

MS16

CP101

SODIUM HYPOCHLORIDE DISINFECTION SYSTEM

PAVED DRIVE

ASPHALT RAMP

CB
TF=3.58
INV IN:-6.92(W 15"CONC)
INV OUT:-7.22(E 15"CONC)

CONCRETE PAD

CB
TF=3.26
INV IN:-6.72(W 15"CONC)

MATCH LINE

SITE PIPING PARTIAL PLAN-II
BYPASS PUMPING

SCALE: 1"=20'

0 20 40

PHOTO 1



PHOTO 2



PHOTO 3



PHOTO 4



PHOTO 5



PHOTO 6



PHOTO 7



NOTES:

1. REFER TO THE TEMPORARY RAS PIPING SCHEMATIC (DWG PR-00-012) FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO COORDINATE WITH OWNER/STP OPERATOR TO DRAIN, CUT, REMOVE, AND REINSTALL TEMPORARY RAS PIPING AS NECESSARY TO FACILITATE THE NEW WORK (I.E. RAS PIPING, ELECTRICAL BUILDING, PILES, AND OTHER NORTH RAS PUMP STATION IMPROVEMENTS.)

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

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PROFESSIONAL ENGINEER
4/30/2025

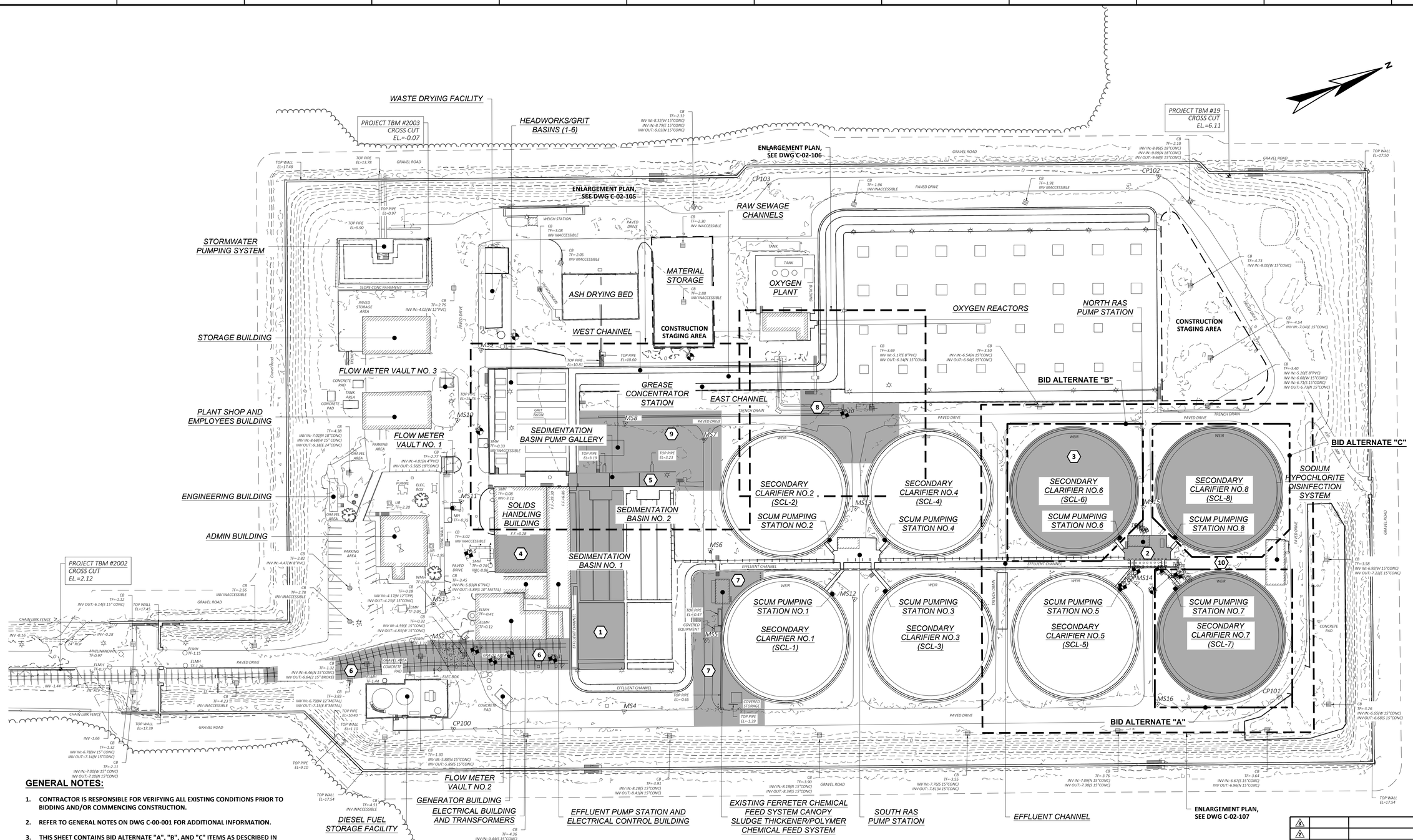
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407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163 | DESIGNED BY: S.HALLOWELL
SUBMISSION: CONTRACT DRAWINGS
CAD COORD: A.COUTURE

SITE PIPING PARTIAL PLAN - II
BYPASS PUMPING

DR. J.MICHAUD	**C-00-101**
TRC. -	
CK. W.EDGERTON	
AP. S.HALLOWELL	**DWG. No. 12221-W-33**
SCALE: AS NOTED	
DATE: APRIL 2025	SET NO. SHEET NO. 6 of 92

LAST SAVED BY: JAMES.MICHAUD 4/23/2025 7:15 AM
J:\ENG\LA\NEWORLEANS\12163-EASTBANKSTP PHASE_I_WW_IMPROVEMENTS_DRAWINGS\PHASE 1A\CIV\12163-CS-EXISTCONDDEMO.DWG | 12163-CS-ExistCondDemo | 11:0.12364627 | --- | 4/25/2025 9:09:26 AM | ADAM.COUTURE



GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BIDDING AND/OR COMMENCING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON DWG C-00-001 FOR ADDITIONAL INFORMATION.
3. THIS SHEET CONTAINS BID ALTERNATE "A", "B", AND "C" ITEMS AS DESCRIBED IN SPECIFICATION SECTION 01100 – ALTERNATES.

DEMOLITION NOTES:

1. REFER TO THE CIVIL, STRUCTURAL, PROCESS, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.

(1) SEDIMENTATION BASIN NO.1 TO BE RENOVATED FOR NEW SLUDGE STORAGE TANKS. REFER TO THE PROCESS DRAWINGS FOR ADDITIONAL INFORMATION.

(2) RAS NORTH PUMP STATION TO BE RENOVATED WITH NEW PUMPS, PIPING, VALVES, AND OTHER ANCILLARY EQUIPMENT. REFER TO THE PROCESS DRAWINGS FOR ADDITIONAL INFORMATION.

(3) SECONDARY CLARIFIERS (6, 7, & 8) TO BE RENOVATED WITH NEW MECHANISM, DRIVE, BRIDGE ASSEMBLY, PIPING, VALVES, AND OTHER ANCILLARY EQUIPMENT. REFER TO THE PROCESS DRAWINGS FOR ADDITIONAL INFORMATION.

(4) EXISTING SLUDGE PIPING, VALVES, FITTINGS, SUPPORTS, ETC. TO BE REPLACED WITH NEW PIPING, VALVES, FITTINGS, AND OTHER ANCILLARY EQUIPMENT. REFER TO THE PROCESS DRAWINGS FOR ADDITIONAL INFORMATION.

(5) EXISTING SLUDGE PIPING, VALVES, FITTINGS, SUPPORTS, ETC. WITHIN PIPING GALLERY TO BE REMOVED. REFER TO THE PROCESS DRAWINGS FOR ADDITIONAL INFORMATION.

(6) EXISTING CHLORINE GAS RAILROAD OFFLOADING AREA TO BE RENOVATED. REFER TO THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

(7) EXISTING CHEMICAL FEED SYSTEM, ABOVE GRADE PIPING, VALVES, FITTINGS, PIPE SUPPORTS, CONCRETE, CONDUIT WIRING CONTROLS AND OTHER ANCILLARY UNDER CANOPY STRUCTURES SHALL BE REMOVED. REFER TO THE PROCESS DRAWINGS FOR ADDITIONAL INFORMATION.

(8) EXISTING RAS PIPING AND VALVES TO BE REMOVED REFER TO THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

(9) EXISTING TOPSOIL, PIPING SUPPORTS CONDUIT AND WIRING TO BE REMOVED. REFER TO THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

(10) CONTRACTOR TO COORDINATE WITH STP OPERATOR THE RELOCATION OF THE TEMPORARY RAS PUMPING SYSTEM INCLUDING PUMPS, FUEL TANKS, PIPING, VALVING, ETC TO FACILITATE NEW CONSTRUCTION WORK.

SCOPE OF WORK TO BE PERFORMED UNDER SEPARATE CONTRACT 1B - SOLIDS HANDLING UPGRADE

BID ALTERNATE "A", "B", AND "C"

SCOPE OF WORK TO BE PERFORMED UNDER SEPARATE CONTRACT 1B - SOLIDS HANDLING UPGRADE

SCOPE OF WORK TO BE PERFORMED UNDER SEPARATE CONTRACT 1B - SOLIDS HANDLING UPGRADE

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1"=60'

0 60 120

SHEET CONTAINS BID ALTERNATES

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe0046278
PROFESSIONAL ENGINEER
4/30/2025

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EXISTING CONDITIONS AND DEMOLITION PLAN

PROJECT NO: 21163	DESIGNED BY: S.HALLOWELL	DR. J.MICHAUD	C-01-101
SUBMISSION: CONTRACT DRAWINGS		TRC. -	
CAD COORD: A.COUTURE		CK. W.EDGERTON	
		AP. S.HALLOWELL	DWG. No. 12221-W-33
		SCALE: AS NOTED	
		DATE: APRIL 2025	SET NO. SHEET NO. 7 of 92

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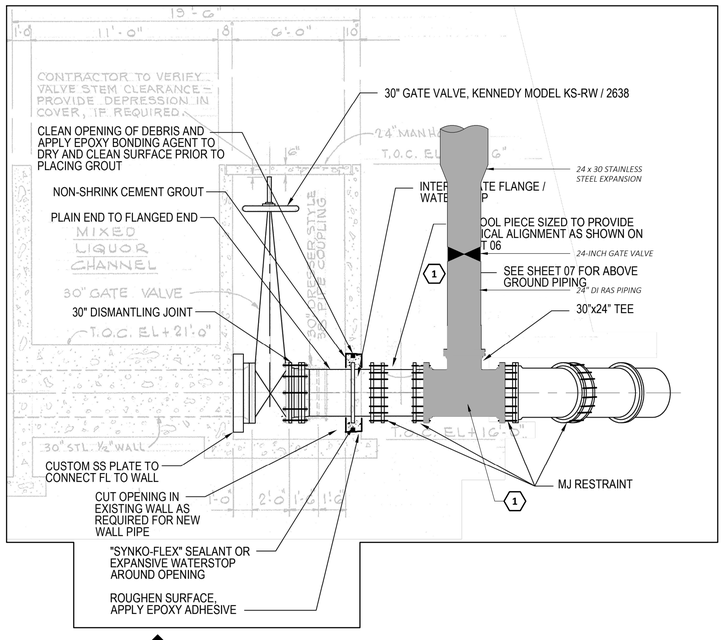
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PHOTO 1



PHOTO 2



1 C-01-106 **SECTION**
SCALE: NTS

GENERAL NOTES:

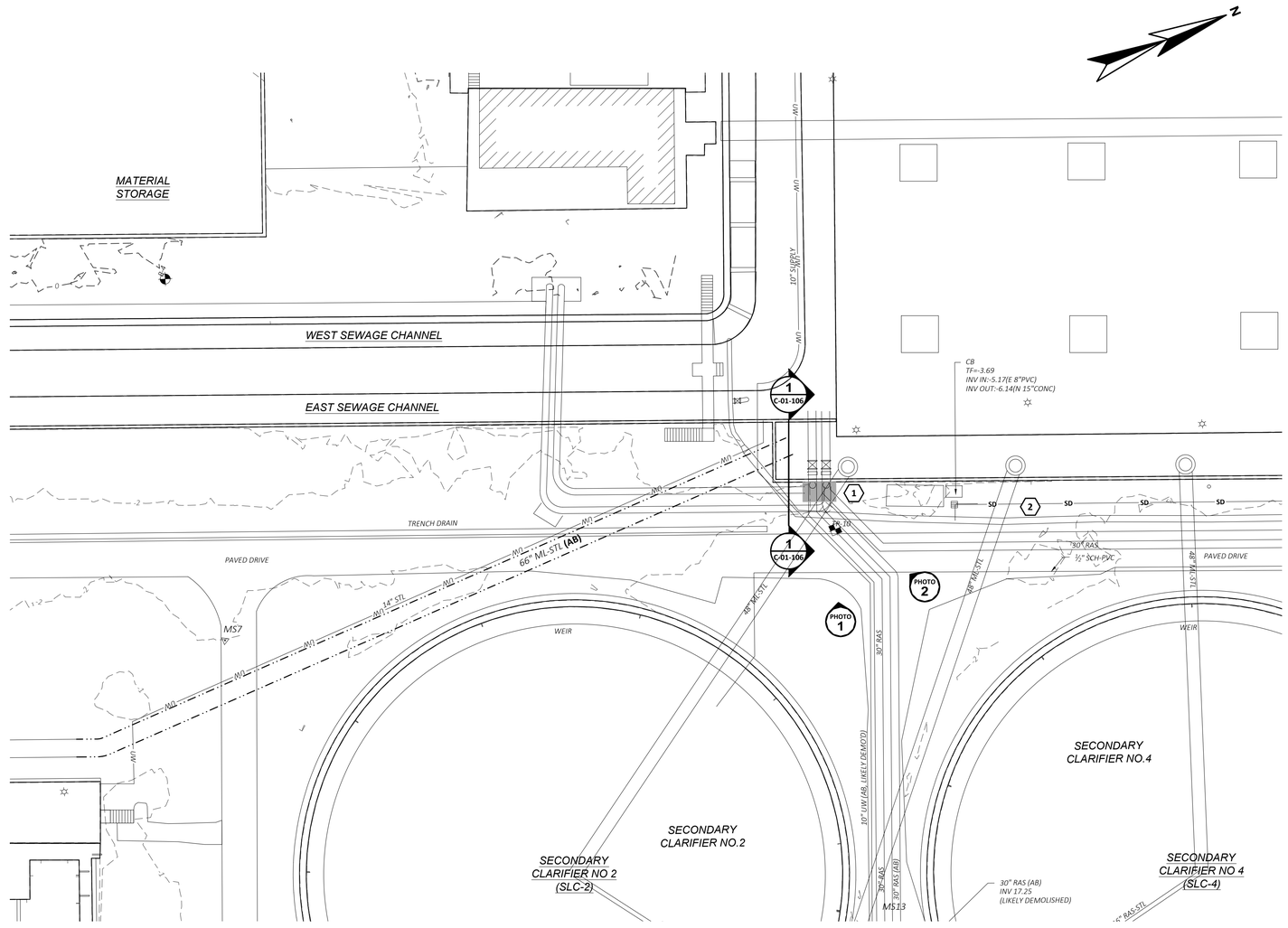
1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BIDDING AND/OR COMMENCING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON DWG C-00-001 FOR ADDITIONAL INFORMATION.
3. CONTRACTOR TO INSTALL AND MAINTAIN SILT SACK FOR THE DURATION OF THE PROJECT.

DEMOLITION NOTES:

1. REFER TO THE CIVIL, STRUCTURAL, PROCESS, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
2. REFER TO DWGS C-01-106 FOR SITE DEMOLITION WORK.

(1) CONTRACTOR SHALL EXCAVATE DOWN TO THE BURIED PIPE RETURN SLUDGE FORCE MAINS (TOTAL OF 2), AND DEMOLISH/REMOVE THE 30 x 30 x 24 TEES, 24-INCH RAS PIPING, 24-GATE VALVES, 24 x 30 EXPANSION FITTINGS, HARDWARE AND ALL OTHER ASSOCIATED APPURTENANCES IN THEIR ENTIRETY. CONTRACTOR TO COORDINATE WITH STP OPERATOR WITH THE DRAINING AND DISPOSAL LIQUID WITHIN THE RAS PIPES (2 RAS LINES, 1 EACH EACH RAS PS). CONTRACTOR TO PROVIDE/DELIVER THE EXISTING 24" GATE VALVES TO STP OPERATOR.

(2) CONTRACTOR TO COORDINATE WITH STP OPERATOR TO DRAIN, CUT, AND REMOVE THE EXISTING TEMPORARY RAS PIPING AS NECESSARY TO FACILITATE THE INSTALLATION OF NEW RAS PIPE, FITTINGS, AND VALVES. ONCE NEW RAS PIPING, FITTINGS, AND VALVES ARE OPERATIONAL, REINSTALL TEMPORARY RAS PIPING.



DEMOLITION PLAN V
SCALE: 1"=20'

0 20 40

STEVEN CHARLES HALLOWELL License No. PE046278 PROFESSIONAL ENGINEER STATE OF LOUISIANA 4/30/2025

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PROJECT NO: 21163	DESIGNED BY: S.HALLOWELL
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

DEMOLITION PLAN V

DR. J.MICHAUD	
TRC. -	**C-01-102**
CK. W.EDGERTON	
AP. S.HALLOWELL	
SCALE: AS NOTED	**DWG. No. 12221-W-33**
DATE: APRIL 2025	SET NO. SHEET NO. 8 of 92

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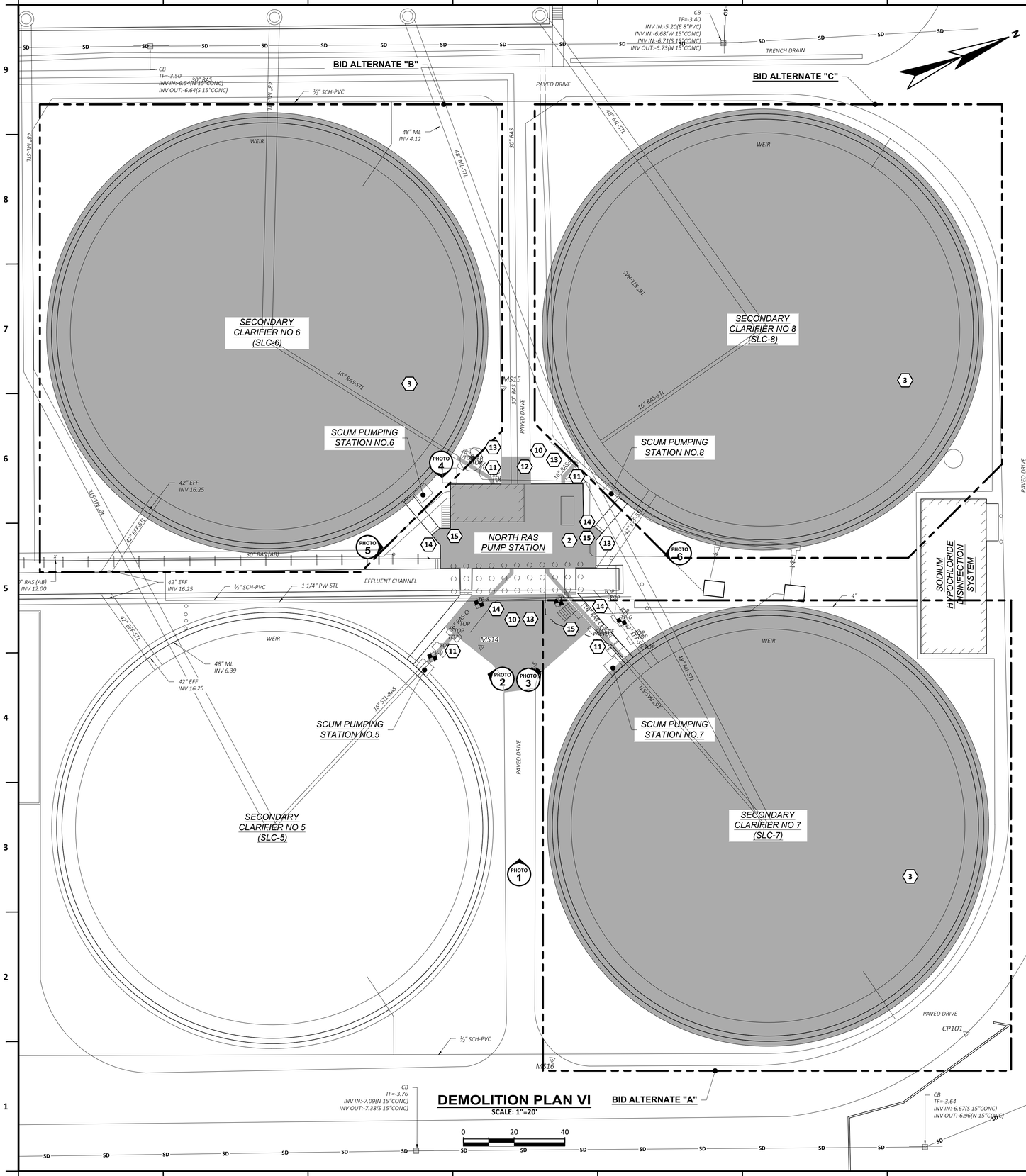




PHOTO 1



PHOTO 2



PHOTO 3



PHOTO 4



PHOTO 5



PHOTO 6

GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BIDDING AND/OR COMMENCING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON DWG C-00-001 FOR ADDITIONAL INFORMATION.
3. THIS SHEET CONTAINS BID ALTERNATE "A", "B", AND "C" ITEMS AS DESCRIBED IN SPECIFICATION SECTION 01100 – ALTERNATES.

DEMOLITION NOTES:

1. REFER TO THE CIVIL, STRUCTURAL, PROCESS, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
2. REFER TO DWG C-01-107 FOR SITE DEMOLITION WORK.

(2) NORTH RAS PUMP STATION TO BE RENOVATED WITH NEW PUMPS, PIPING, VALVES, AND OTHER ANCILLARY EQUIPMENT. REFER TO THE PROCESS DRAWINGS FOR ADDITIONAL INFORMATION.

(3) SECONDARY CLARIFIERS (6, 7, & 8) TO BE RENOVATED WITH NEW MECHANISM, DRIVE, BRIDGE ASSEMBLY, PIPING, VALVES, AND OTHER ANCILLARY EQUIPMENT. REFER TO THE PROCESS DRAWINGS FOR ADDITIONAL INFORMATION.

BID ALTERNATE "A", "B", AND "C"

(10) CONTRACTOR TO CONDUCT MULTIPLE TEST PITS AS NECESSARY TO LOCATE THE EXISTING PILES UNDERNEATH THE EFFLUENT CHANNEL. CONTRACTOR TO REPORT INFORMATION TO ENGINEER TO ADJUST RAS PIPE CARRIER LOCATION.

(11) REMOVE/DEMOLISH THE EXISTING 16" RAS PIPING TO THE EXTENTS SHOWN, INCLUDING BUT NOT LIMITED TO; PIPING, SUPPORTS AND ALL OTHER ASSOCIATED APPURTENANCES. REFER TO DRAWINGS C-01-116 THROUGH C-01-119 FOR ADDITIONAL INFORMATION.

(12) REMOVE/DEMOLISH THE EXISTING 30" RAS PIPING TO THE EXTENTS SHOWN, INCLUDING BUT NOT LIMITED TO; PIPING, SUPPORTS, AND ALL OTHER ASSOCIATED APPURTENANCES.

(13) CONTRACTOR TO COORDINATE WITH THE STP OPERATOR WITH THE REMOVAL EXISTING TEMPORARY RAS PIPING, FITTINGS AND VALVES AS NECESSARY TO FACILITATE THE CONSTRUCTION OF THE NEW RAS SUCTION PIPING, TEST PITS TO VERIFY THE LOCATION OF EXISTING TIMBER PILES UNDER THE EFFLUENT CHANNEL, OTHER DEMOLITION WORK AT THE N. RAS PS. ALL TEMPORARY RAS PIPING, FITTINGS, AND VALVES REMAIN THE PROPERTY OF THE OWNER/STP OPERATOR.

(14) PRIOR THE DEMOLITION OF ANY WORK AT THE N. RAS PS, CONTRACTOR TO REMOVE AND TEMPORARY RELOCATE EXISTING PIPING, CONDUIT, WIRING, ETC. CONTRACTOR TO COORDINATE WITH THE STP OPERATOR ON THE RELOCATION OF EXISTING PIPING, CONDUIT, WIRING, ETC. REFER TO THE PROCESS AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

(15) REMOVE/DEMOLISH AND DISPOSE OF THE EXISTING CONCRETE SLAB AND STAIRS. PRIOR TO CONDUCTING THE DEMOLITION WORK, CONTRACTOR TO REMOVE/DEMOLISH OR RELOCATE EXISTING PIPING, CONDUIT AND WIRING AS NECESSARY UNDER THE ELEVATED PLATFORM, ALONG THE PS EXTERIOR WALLS AND EFFLUENT CHANNEL. CONTRACTOR TO COORDINATE WITH THE STP OPERATOR IN THE SCHEDULING OF THE RELOCATION OF PIPING AND ELECTRICAL CONDUIT. REFER TO THE STRUCTURAL, PROCESS AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

SHEET CONTAINS BID ALTERNATES

REV.	DATE	DESCRIPTION	BY
3			
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

DEMOLITION PLAN VI

STATE OF LOUISIANA — STEVEN CHARLES HALLOWELL — License No. PE046278 — PROFESSIONAL ENGINEER — 4/30/2025

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601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163	DESIGNED BY: S.HALLOWELL
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

DR. J.MICHAUD	
TRC. -	
CK. W.EDGERTON	
AP. S.HALLOWELL	
SCALE: AS NOTED	
DATE: APRIL 2025	

C-01-103

DWG. No. 12221-W-33

SET NO. | SHEET NO. 9 of 92

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WASTE DRYING FACILITY

PROJECT TBM #2003
CROSS CUT
EL.=-0.07

ENLARGEMENT PLAN, SEE DWG C-01-111

ENLARGEMENT PLAN, SEE DWG C-01-112

PROJECT TBM #19
CROSS CUT
EL.=6.11

TOP WALL EL=17.50

CP102

CP103

RAW SEWAGE CHANNELS

STORMWATER PUMPING SYSTEM

MATERIAL STORAGE

ASH DRYING BED

OXYGEN PLANT

ENLARGEMENT PLAN, SEE DWG C-01-114

OXYGEN REACTORS

STORAGE BUILDING

MS9

FLOW METER VAULT NO. 3

GREASE CONCENTRATOR STATION

NORTH RAS PUMP STATION

BID ALTERNATE "B"

PLANT SHOP AND EMPLOYEES BUILDING

MS10

HEADWORKS/GRIT BASINS

MS8

MS7

ELECTRICAL BUILDING

BID ALTERNATE "C"

FLOW METER VAULT NO. 1

SLUDGE THICKENING

SECONDARY CLARIFIER NO.2 (SCL-2)

SECONDARY CLARIFIER NO.4 (SCL-4)

SECONDARY CLARIFIER NO.6 (SCL-6)

SECONDARY CLARIFIER NO.8 (SCL-8)

TEPORARY RAS PUMPING SYSTEM

SODIUM HYPOCHLORITE DISINFECTION SYSTEM

ENGINEERING BUILDING

MS11

SOLIDS HANDLING BUILDING

SEDIMENTATION BASIN NO. 2

MS13

MS14

ADMIN BUILDING

THICKENED SLUDGE STORAGE TANK

MS6

PROJECT TBM #2002
CROSS CUT
EL.=2.12

MS1

MS12

MS2

WAS STORAGE TANK

MS5

SECONDARY CLARIFIER NO.1 SCL-1

SECONDARY CLARIFIER NO.3 (SCL-3)

SECONDARY CLARIFIER NO.5 (SCL-5)

SECONDARY CLARIFIER NO.7 (SCL-7)

INV-1.44

MS16

CP101

MS4

CP100

BID ALTERNATE "A"

SCOPE OF WORK TO BE PERFORMED UNDER SEPARATE CONTRACT 1B - SOLIDS HANDLING UPGRADE.

FLOW METER VAULT NO.2

EMERGENCY GENERATOR BUILDING

EFFLUENT PUMP STATION AND ELECTRICAL CONTROL BUILDING

DIESEL FUEL STORAGE FACILITY

ELECTRICAL BUILDING AND TRANSFORMERS

LIQUID SLUDGE/SEPTAGE RECEIVING FACILITIES

SCOPE OF WORK TO BE PERFORMED UNDER SEPARATE CONTRACT 1B - SOLIDS HANDLING UPGRADE.

SOUTH RAS PUMP STATION

EFFLUENT CHANNEL

ENLARGEMENT PLAN, SEE DWG C-01-114

ENLARGEMENT PLAN, SEE DWG C-01-115

EXISTING FERRETER CHEMICAL FEED SYSTEM CANOPY

SLUDGE THICKENER/POLYMER CHEMICAL FEED SYSTEM

SHEET CONTAINS BID ALTERNATES

OVERALL SITE MODIFICATION PLAN

SCALE: 1"=60'

0 60 120

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe0046278
PROFESSIONAL ENGINEER
4/30/2025

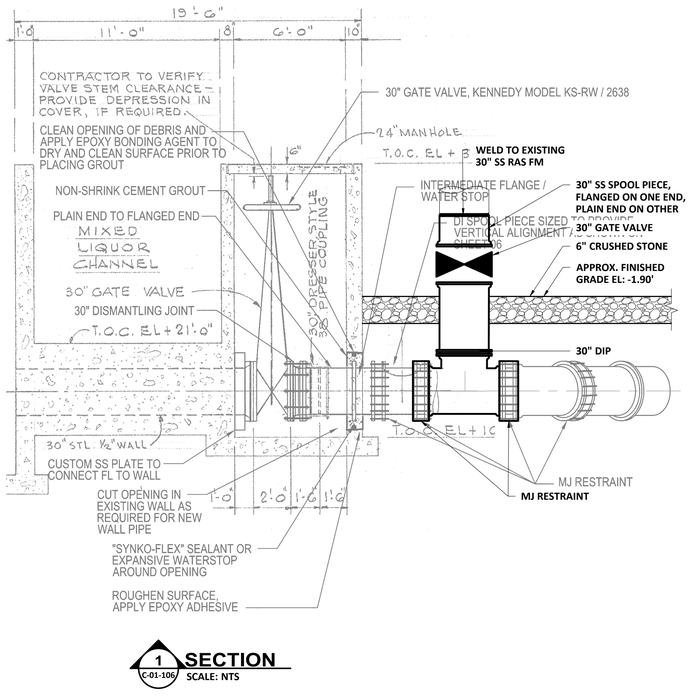
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OVERALL SITE MODIFICATION PLAN

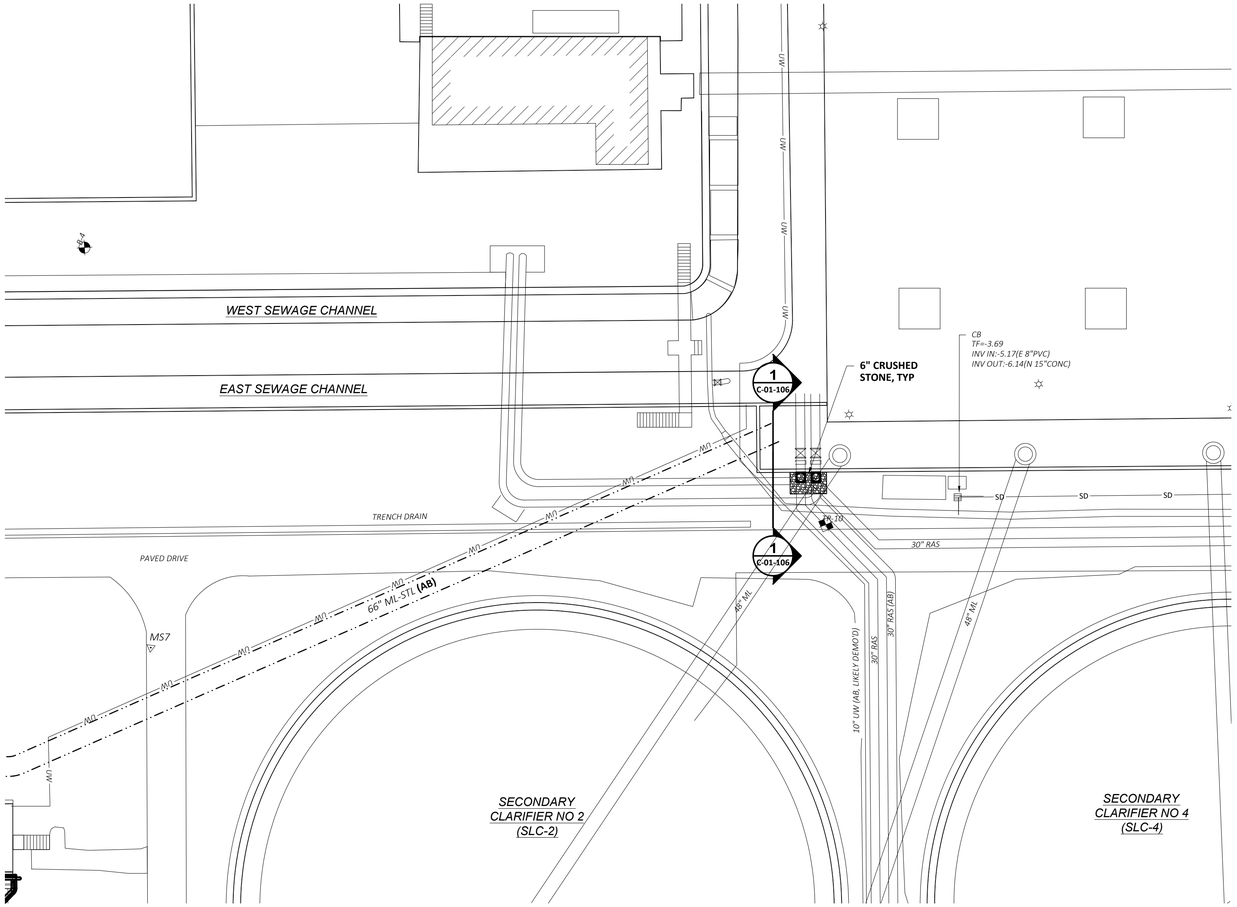
DR. J.MICHAUD	C-01-104
TRC. -	
CK. W.EDGERTON	
PROJECT NO: 21163 / DESIGNED BY: S.HALLOWELL	AP. S.HALLOWELL
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025
	DWG. No. 12221-W-33
	SET NO. / SHEET NO. 10 of 92

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1 C-01-106 **SECTION**
SCALE: NTS



GENERAL NOTES:

1. REFER TO THE GENERAL NOTES ON C-00-001 FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO RECONNECT THE TEMPORARY RAS PIPING SYSTEM AFTER THE INSTALLATION OF THE NEW RAS PIPING, FITTINGS, AND VALVES (TOTAL OF 2).

SITE PIPING PARTIAL PLAN
AERATION TANKS AND INFLUENT CHANNEL

SCALE: 1"=20'

0 20 40

REV.	DATE	DESCRIPTION	BY
3			
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA — STEVEN CHARLES HALLOWELL — License No. Pe0046278 — PROFESSIONAL ENGINEER — 4/30/2025

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PROJECT NO: 21163	DESIGNED BY: S.HALLOWELL
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

SITE PIPING PARTIAL PLAN AERATION TANKS AND INFLUENT CHANNEL

DR. C.HINKLEY	
TRC. -	
CK. W.EDGERTON	
AP. S.HALLOWELL	
SCALE: AS NOTED	
DATE: APRIL 2025	SET NO. / SHEET NO. 11 of 92

C-01-105

DWG. No. 12221-W-33

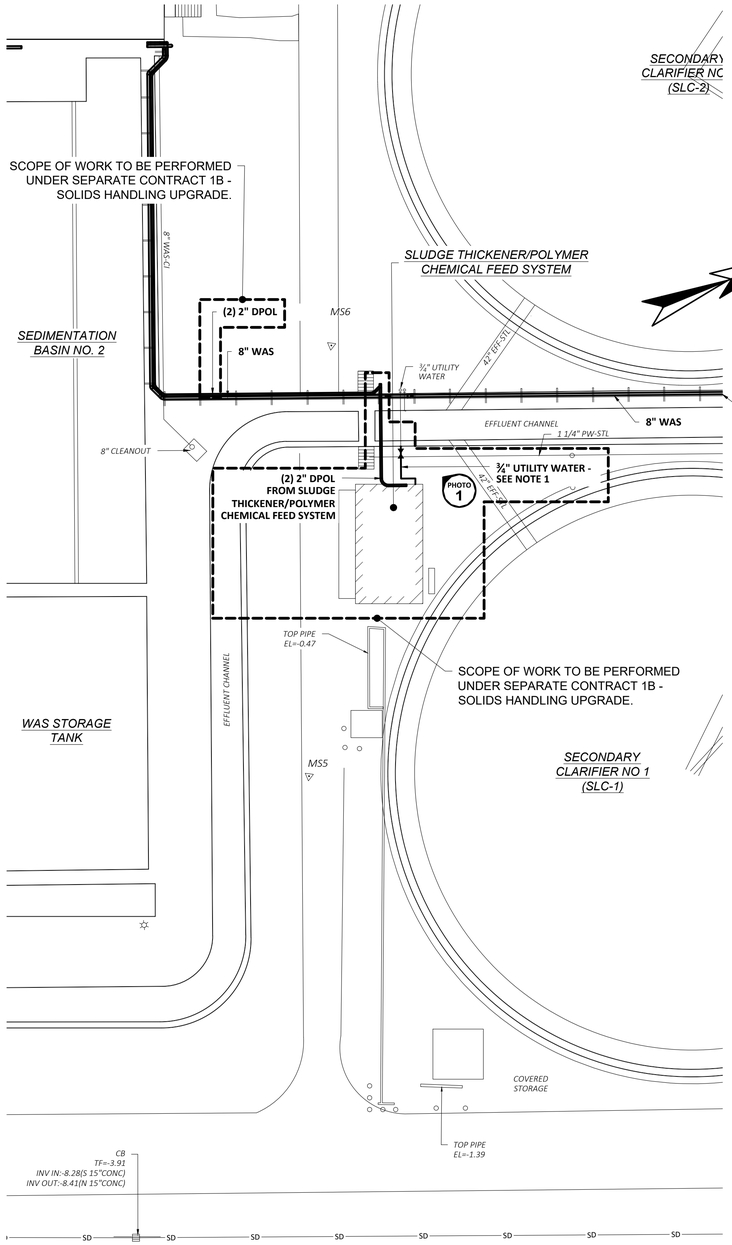




PHOTO 1

SITE PIPING PARTIAL PLAN
CHEMICAL FEED SYSTEM

SCALE: 1"=20'

0 20 40

GENERAL NOTES:

1. REFER TO THE GENERAL NOTES ON C-00-001 FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL CONNECT TO EXISTING UTILITY WATER LINE AT THE YARD VALVE AND FIELD ROUTE NEW 3/4-INCH UTILITY WATER PIPING TO THE POLYMER CANOPY. REFER TO PROCESS DETAILS FOR DOWNSTREAM CONNECTION REQUIREMENTS.
3. REFER TO THE STRUCTURAL, PROCESS, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION ON THE SLUDGE THICKENER CHEMICAL FEED SYSTEM.

REV.	DATE	DESCRIPTION	BY
3			
2			
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
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SITE PIPING PARTIAL PLAN
CHEMICAL FEED SYSTEM

DR. C.HINKLEY	C-01-106
TRC. -	
CK. W.EDGERTON	
AP. S.HALLOWELL	DWG. No. 12221-W-33
PROJECT NO: 21163 / DESIGNED BY: S.HALLOWELL	
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025 / SET NO. / SHEET NO. 12 of 92

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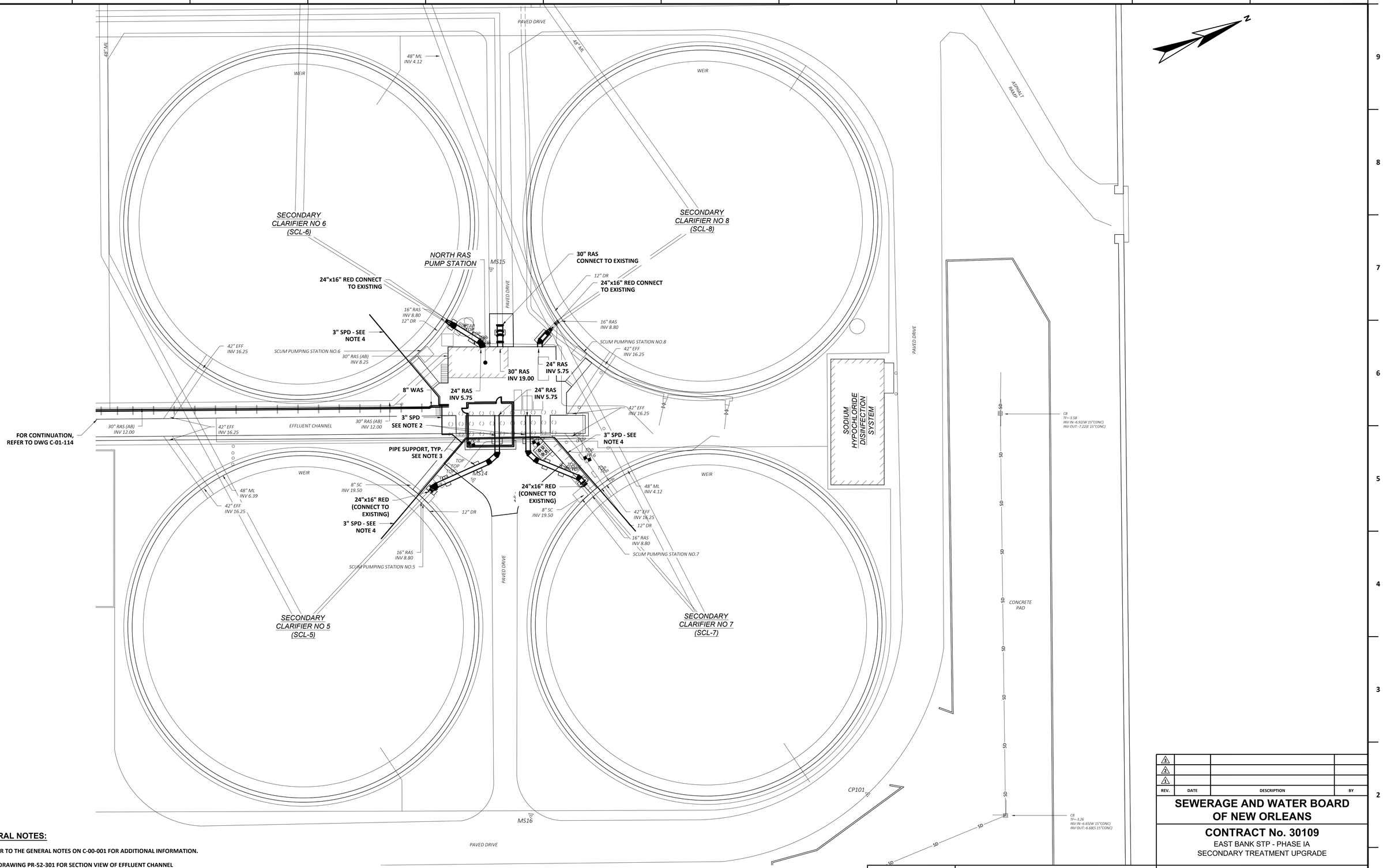
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TRENCH DRAIN
PAVED DRIVE
MS7
66" ML, STL (AB)
Weir
SECONDARY CLARIFIER NO 2 (SLC-2)
10" UW (AB, LIKELY DEMO'D)
30" RAS
30" RAS (AB)
30" RAS (AB) INV 17.25 (LIKELY DEMOLISHED)
MS13
30" RAS INV 17.25
16" RAS INV 8.80
SCUM PUMPING STATION NO.2
SCOPE OF WORK TO BE PERFORMED UNDER SEPARATE CONTRACT 1B - SOLIDS HANDLING UPGRADE.
(2) 2" DPOL
8" WAS
MS6
8" WAS- SEE NOTE 2
¾" UTILITY WATER
48" EFF STL
8" WAS INV 16.42
48" ML
SOUTH RAS PUMP STATION
16" RAS INV 5.50
SCUM PUMPING STATION NO.4
42" EFF INV 16.25
SEE NOTE 3
8" WAS
30" RAS (AB)
30" RAS (AB) INV 12.00
EFFLUENT CHANNEL
FOR CONTINUATION, REFER TO DWG C-01-113
FOR CONTINUATION, REFER TO DWG C-01-115
(2) 2" DPOL FROM SLUDGE THICKENER/POLYMER CHEMICAL FEED SYSTEM
SLUDGE THICKENER/POLYMER CHEMICAL FEED SYSTEM
WEIR
48" ML INV 4.12
MS12
16" RAS INV 8.80
SCUM PUMPING STATION NO.1
48" ML INV 6.39
SCUM PUMPING STATION NO.3
TOP PIPE EL=-0.47
SCOPE OF WORK TO BE PERFORMED UNDER SEPARATE CONTRACT 1B - SOLIDS HANDLING UPGRADE.
MS5
SECONDARY CLARIFIER NO 1 (SLC-1)
SECONDARY CLARIFIER NO 3 (SLC-3)
SECONDARY CLARIFIER NO 4 (SLC-4)
COVERED STORAGE
TOP PIPE EL=-1.39
PAVED DRIVE
48" MH
48" MH
48" ML
48" ML
48" ML

LAST SAVED BY: CHRISTOPHER.HINKLEY 4/7/2025 12:49 PM

J:\ENGLA\NEWORLEANS\21163-EASTBANKSTP PHASE_I_WW_IMPROVEMENTS_DRAWINGS\PHASE-1A\CIVIL\21163-CS-SITEPIPINGSC-H.DWG | 21163-CS-SitePipingSC-H | 1:1 | 0.12364677 | — | 4/15/2025 9:10:52 AM | ADAM.COUTURE



GENERAL NOTES:

1. REFER TO THE GENERAL NOTES ON C-00-001 FOR ADDITIONAL INFORMATION.
2. SEE DRAWING PR-52-301 FOR SECTION VIEW OF EFFLUENT CHANNEL
3. CONTRACTOR TO MODIFY OR REHABILITATE THE EXISTING PIPE SUPPORTS TO FACILITATE THE INSTALLATION OF THE NEW RAS PIPE TO BE SUPPORTED.
4. CONTRACTOR TO FIELD ROUTE NEW SUMP PUMP DISCHARGE PIPING FROM WHERE THE EXISTING PIPING EXITS THE NORTH RAS PUMP STATION TO SECONDARY CLARIFIERS NO. 5, 6, AND 7. PROVIDE ISOLATION BALL VALVES AT PIPING BRANCH LOCATIONS. REFER TO PR-50-102 FOR TYPICAL PIPE ROUTING AND DISCHARGE ARRANGEMENT.
5. REFER TO STRUCTURAL DRAWINGS FOR INFORMATION ON THE INSTALLATION OF PILES AND CONCRETE PILE CAPS.

SITE PIPING AND PAVING PARTIAL PLAN SECONDARY CLARIFIERS NO. 5, 6, 7, 8

SCALE: 1"=20'

0 20 40

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe0046278
PROFESSIONAL ENGINEER
4/30/2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163	DESIGNED BY: S.HALLOWELL	DR. C.HINKLEY	
SUBMISSION: CONTRACT DRAWINGS		TRC. -	
CAD COORD: A.COUTURE		CK. W.EDGERTON	
		AP. S.HALLOWELL	
		SCALE: AS NOTED	
		DATE: APRIL 2025	SET NO.

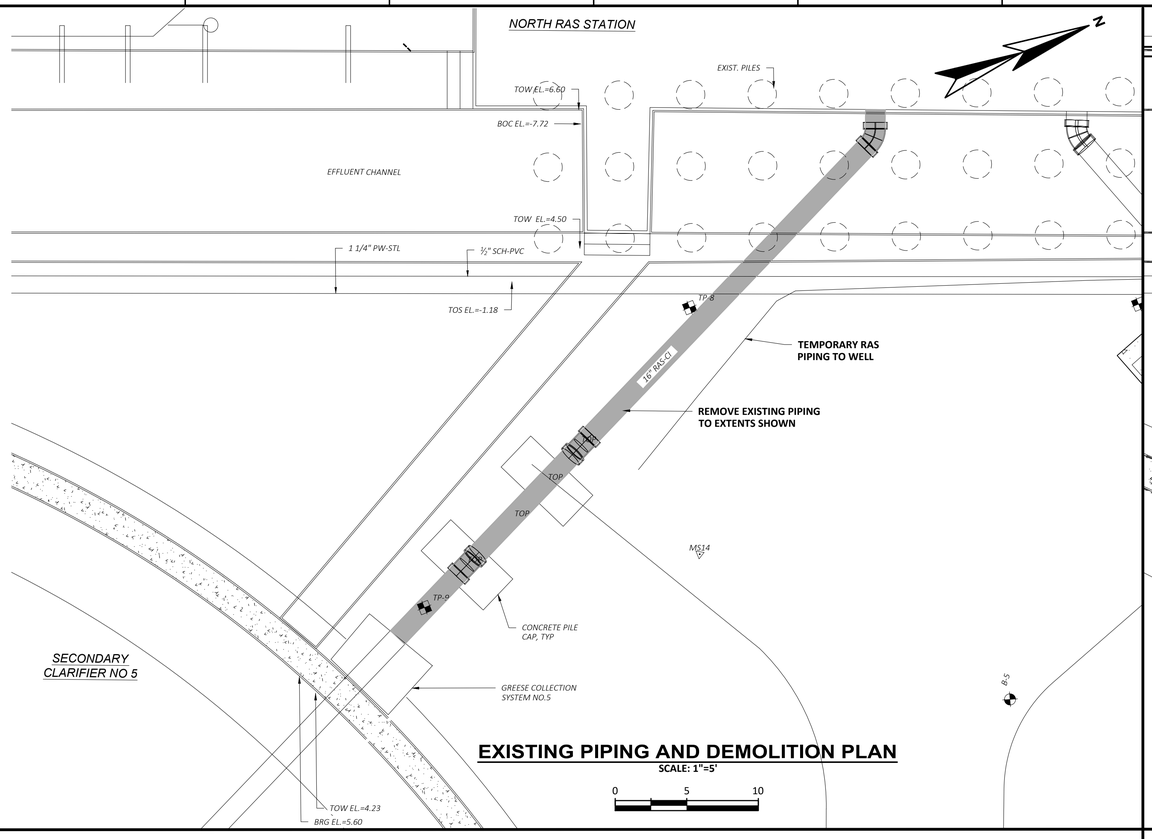
SITE PIPING AND PAVING PARTIAL PLAN
SECONDARY CLARIFIERS NO. 5, 6, 7, 8

C-01-108

DWG. No. 12221-W-33

SHEET NO. 14 of 92

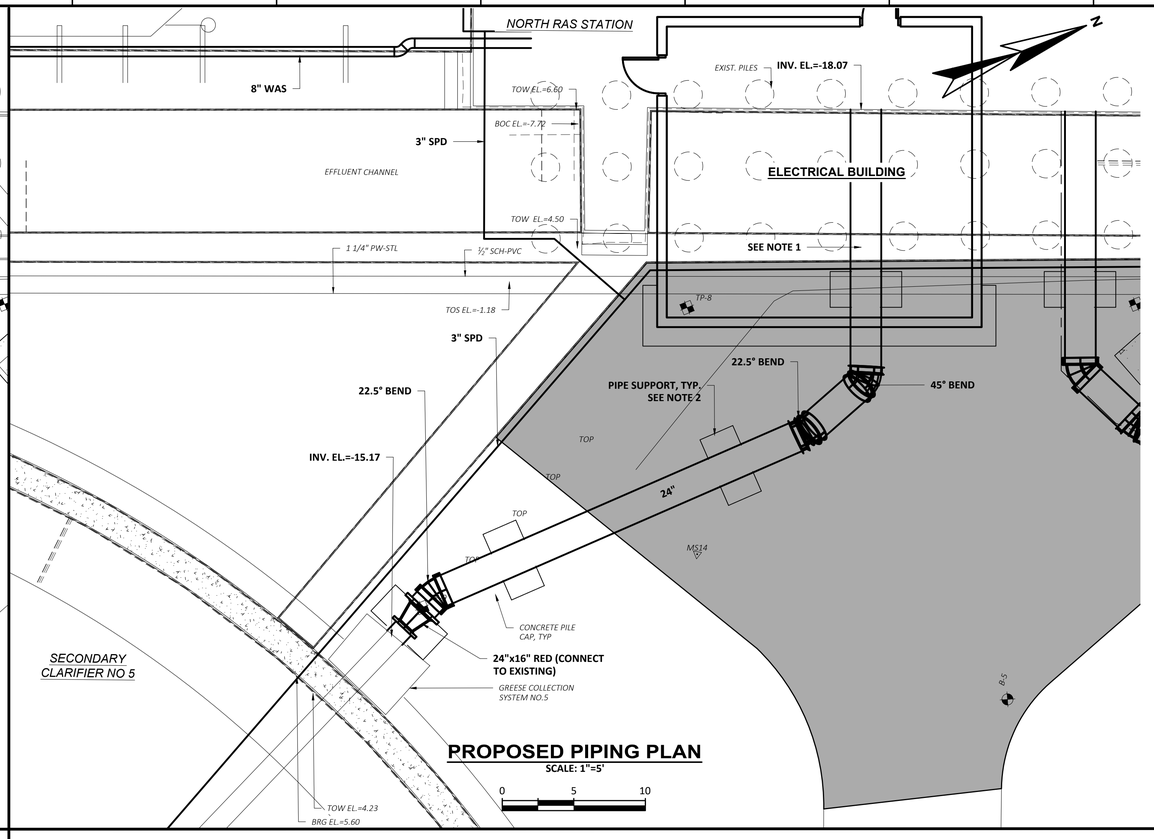
LAST SAVED BY: CHRISTOPHER.HINKLEY 4/7/2025 12:49 PM



EXISTING PIPING AND DEMOLITION PLAN

SCALE: 1"=5'

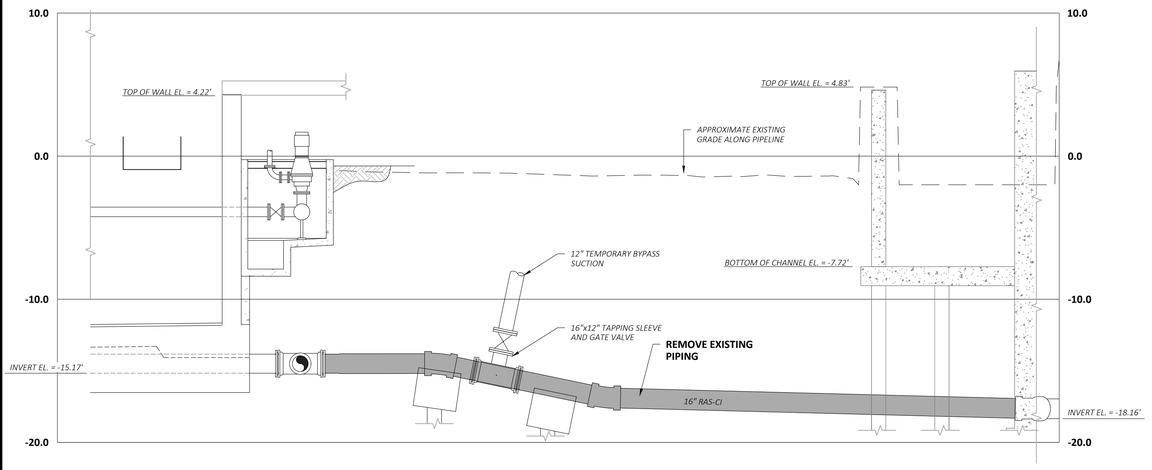
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PROPOSED PIPING PLAN

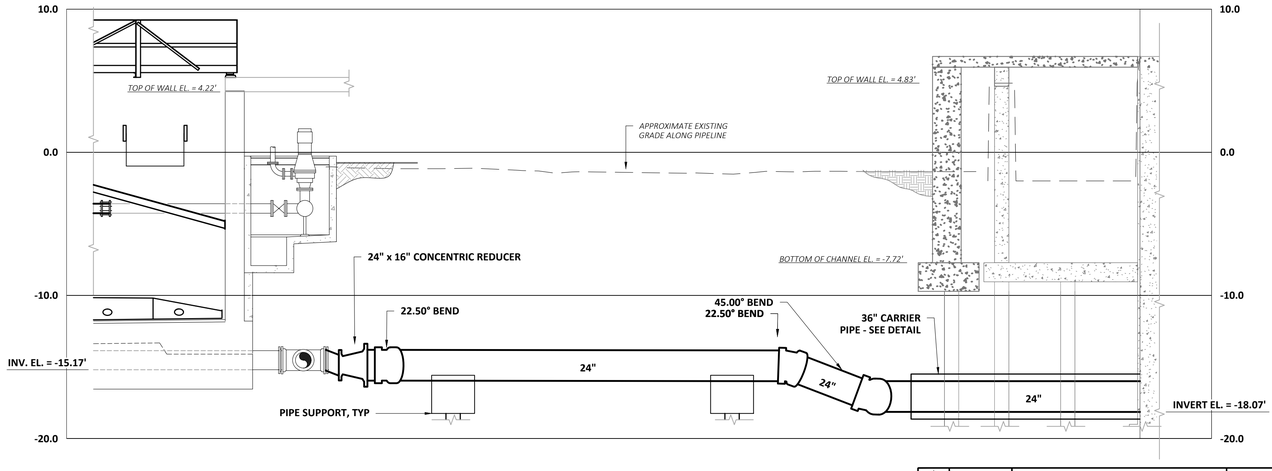
SCALE: 1"=5'

0 5 10



EXISTING PROFILE

SCALES
VERT:1"=5'
HORIZ:1"=5'



PROPOSED PROFILE

SCALES
VERT:1"=5'
HORIZ:1"=5'

GENERAL NOTES:

1. REFER TO THE GENERAL NOTES ON C-00-001 FOR ADDITIONAL INFORMATION.
2. REFER TO DRAWINGS C-01-107 AND C-01-115 FOR ADDITIONAL INFORMATION REGARDING OVERALL DEMOLITION AND MODIFICATION PLANS FOR THIS WORK AREA.
3. THIS SHEET CONTAINS BID ALTERNATE 1 ITEMS AS DESCRIBED IN SPECIFICATION 01100 - ALTERNATES.

NOTES:

1. REFER TO THE STRUCTURAL DRAWINGS FOR INFORMATION AND DETAILS ON THE PILES AND PILE CAPS.
2. REFER TO THE PROCESS AND ELECTRICAL DRAWINGS FOR INFORMATION ON THE RELOCATION OF EXISTING PIPING AND CONDUIT.

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. PeO46278
PROFESSIONAL ENGINEER
4/30/2025

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601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

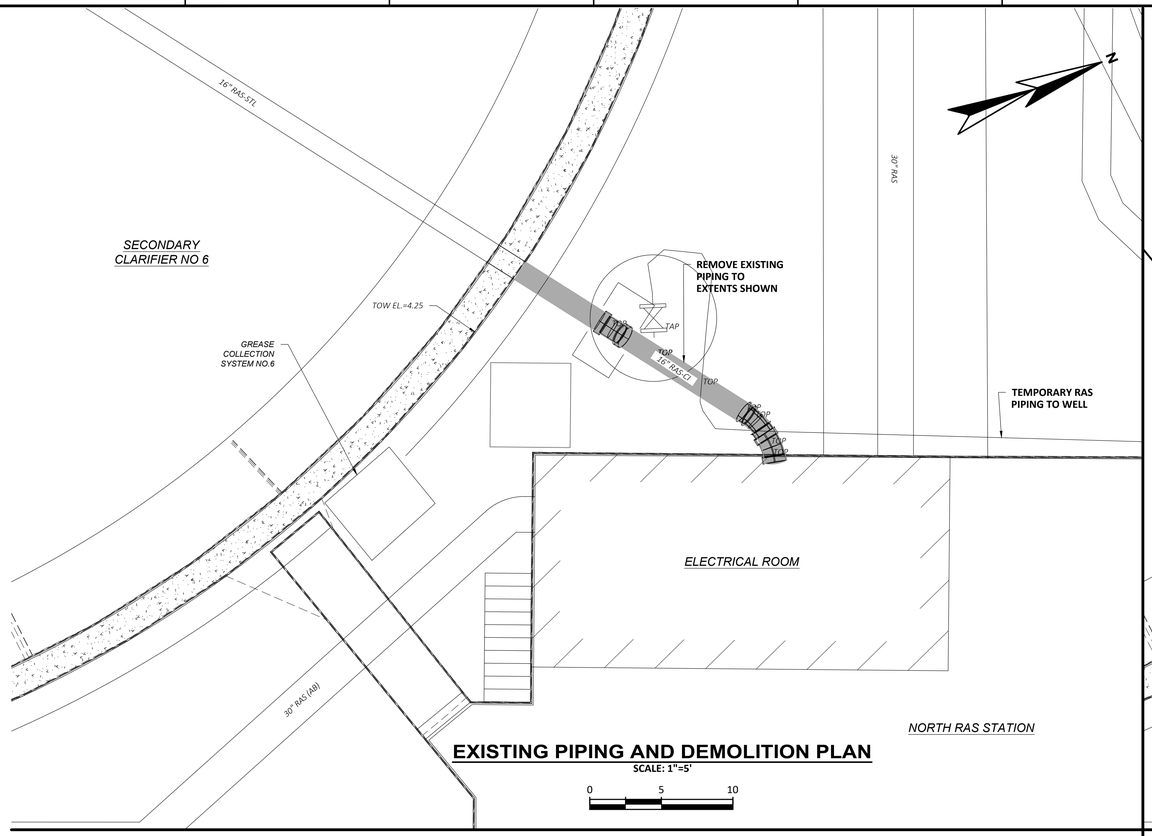
SECONDARY CLARIFIER NO. 5
EXISTING SITE PIPING, DEMOLITION AND PROPOSED SITE PIPING PLAN AND PROFILE

DR. C.HINKLEY		C-01-109	
TRC. -			
CK. W.EDGERTON			
AP. S.HALLOWELL		DWG. No. 12221-W-33	
PROJECT NO: 21163	DESIGNED BY: S.HALLOWELL		
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED		
CAD COORD: A.COUTURE	DATE: APRIL 2025	SET NO.	SHEET NO. 15 of 92

J:\ENG\LA\NEWORLEANS\21163-EASTBANKSTP PHASE_I_WW_IMPROVEMENTS_DRAWINGS\PHASE 1A\CIVIL\21163-CS-RASPIPINGPPLOWG | 21163-CS-RASPipingPPl | 1:10.1236467? | — | 4/25/2025 9:11:08 AM | ADAM.COUTURE

LAST SAVED BY: CHRISTOPHER.HINKLEY 4/7/2025 12:50 PM

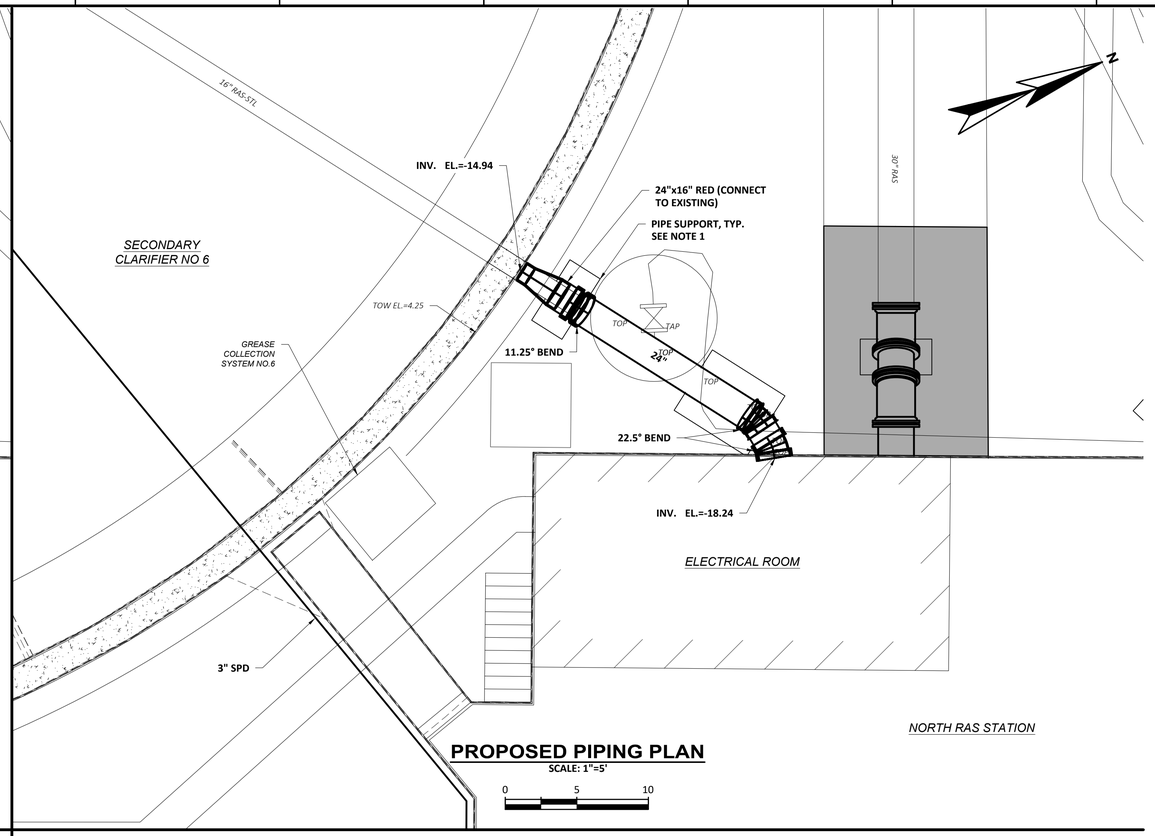
J:\ENGLA\NEWORLEANS\21163-EASTBANKSTP PHASE_I_WW_IMPROVEMENTS_DRAWINGS\PHASE-1A\CIV\21163-CS-RASPIPINGPPIL.DWG | 21163-CS-RASPipingPPil | 1:10.1236677 | — | 4/25/2025 9:11:25 AM | ADAM.COUTURE



EXISTING PIPING AND DEMOLITION PLAN

SCALE: 1"=5'

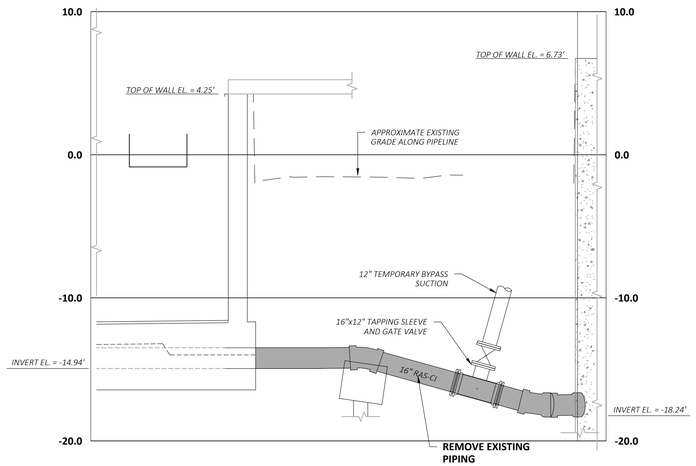
0 5 10



PROPOSED PIPING PLAN

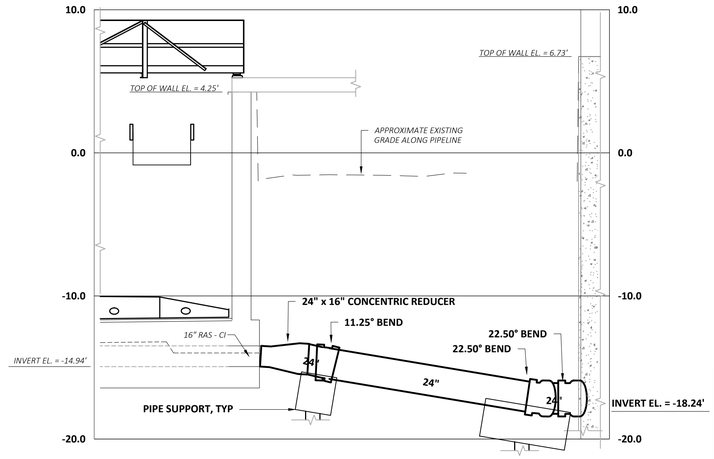
SCALE: 1"=5'

0 5 10



EXISTING PROFILE

SCALES
VERT:1"=5'
HORIZ:1"=5'



PROPOSED PROFILE

SCALES
VERT:1"=5'
HORIZ:1"=5'

GENERAL NOTES:

1. REFER TO THE GENERAL NOTES ON C-00-001 FOR ADDITIONAL INFORMATION.
3. REFER TO DRAWINGS C-01-107 AND C-01-115 FOR ADDITIONAL INFORMATION REGARDING OVERALL DEMOLITION AND MODIFICATION PLANS FOR THIS WORK AREA.
4. CONTRACTOR TO MODIFY OR REHABILITATE THE EXISTING PIPE SUPPORTS TO FACILITATE THE INSTALLATION OF THE NEW RAS PIPE TO BE SUPPORTED. REFER TO STRUCTURAL DETAILS FOR ADDITIONAL INFORMATION.

NOTES:

1. REFER TO THE STRUCTURAL DRAWINGS FOR INFORMATION AND DETAILS ON THE PILES AND PILE CAPS.
2. REFER TO THE PROCESS AND ELECTRICAL DRAWINGS FOR INFORMATION ON THE RELOCATION OF EXISTING PIPING AND CONDUIT.

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe0046278
PROFESSIONAL ENGINEER
4/30/2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163	DESIGNED BY: S.HALLOWELL
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

SECONDARY CLARIFIER NO. 6
EXISTING SITE PIPING, DEMOLITION, AND PROPOSED PIPING PLAN AND PROFILE

DR. C.HINKLEY	
TRC. -	
CK. W.EDGERTON	
AP. S.HALLOWELL	
SCALE: AS NOTED	
DATE: APRIL 2025	

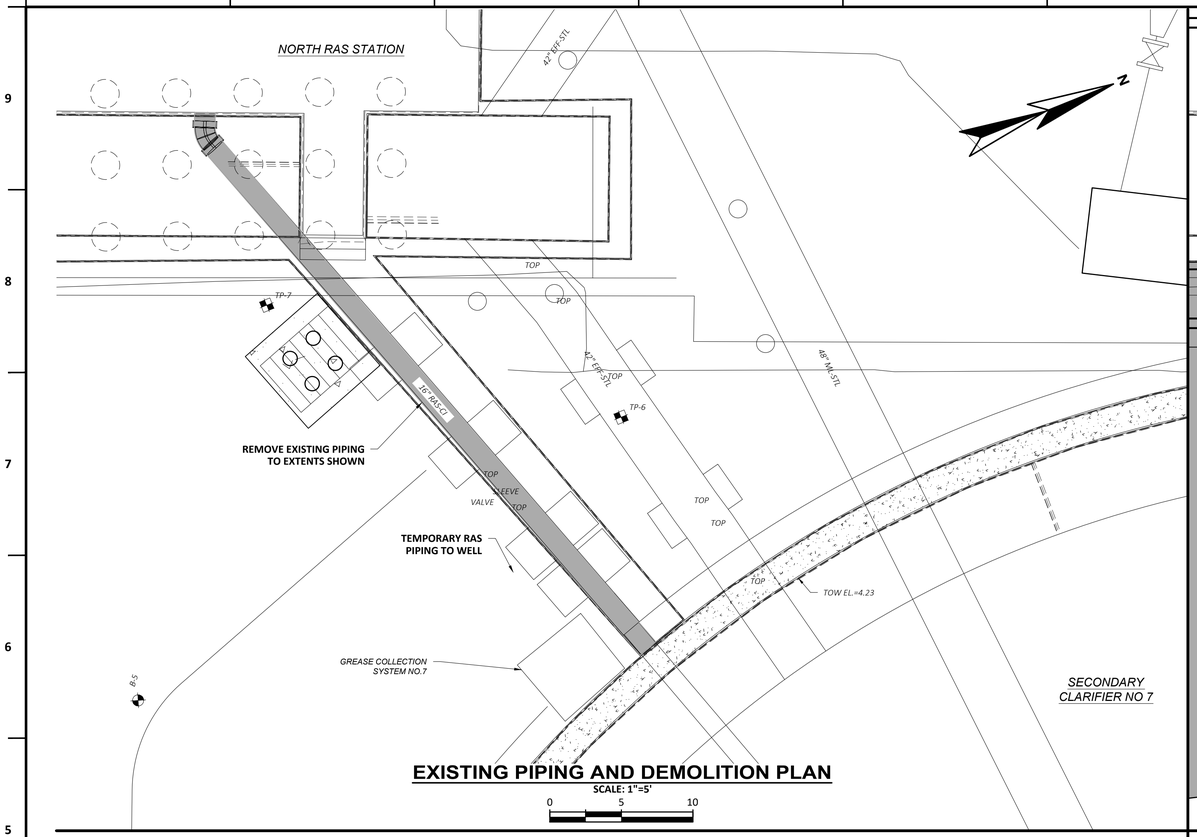
C-01-110

DWG. No. 12221-W-33

SET NO. | SHEET NO. 16 of 92

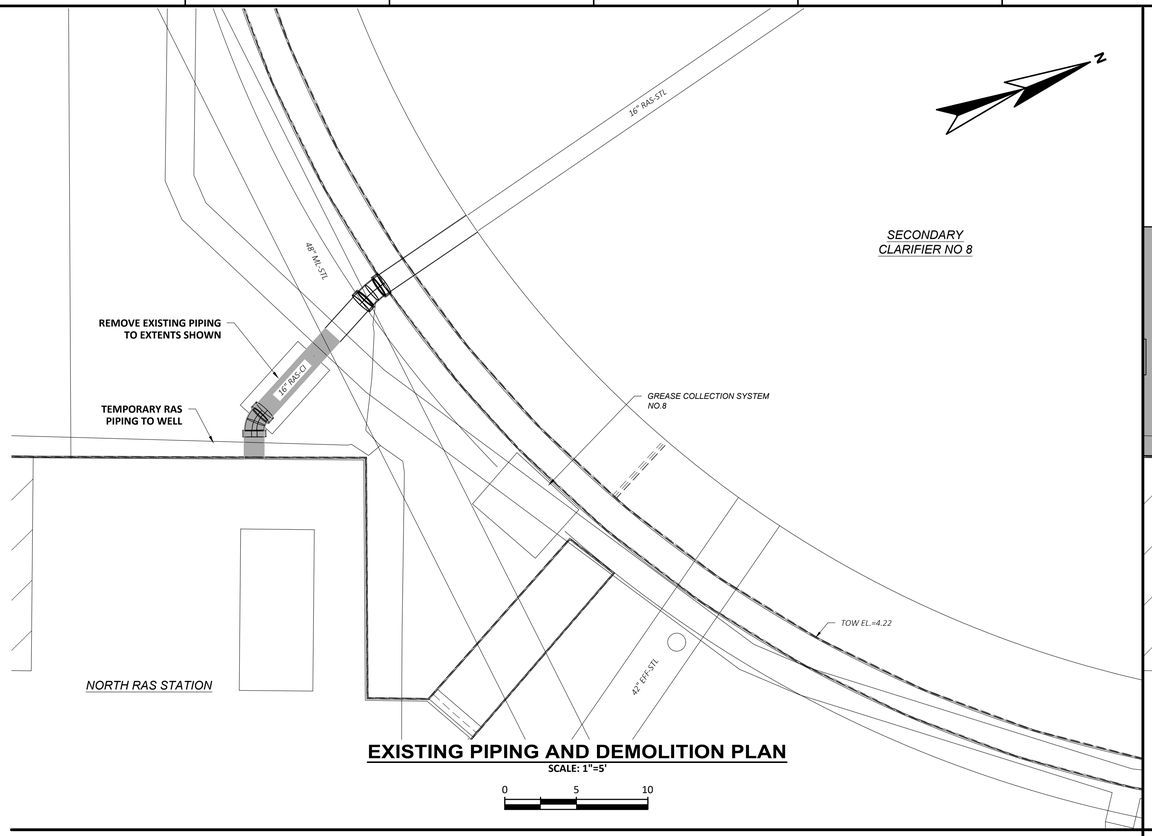
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NORTH RAS STATION
42" EFF. STL
TOP
TP-7
TP-6
42" EFF. STL
48" M. STL
TOP
TOP
TOP

LAST SAVED BY: CHRISTOPHER.HINKLEY 4/7/2025 12:50 PM

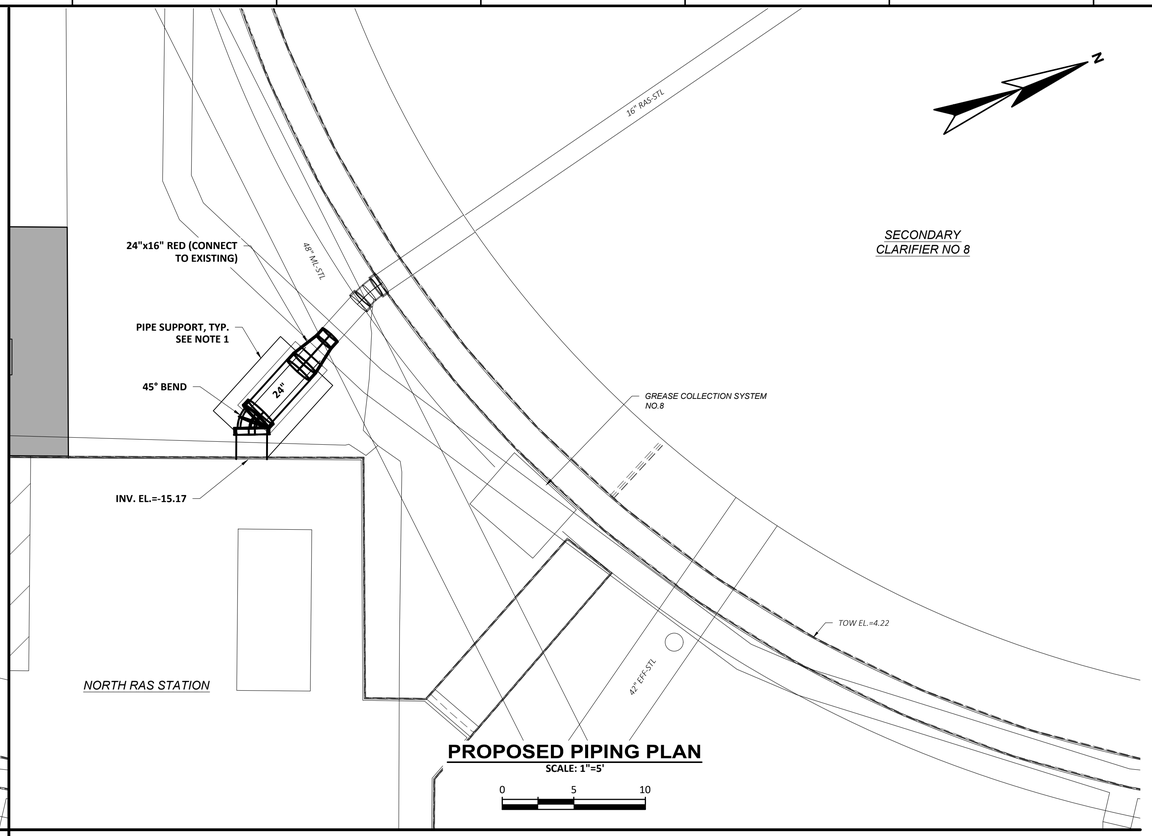
J:\ENGLA\NEWORLEANS\21163-EASTBANKSTP PHASE_I_WW_IMPROVEMENTS_DRAWINGS\PHASE-1A\CIV\21163-CS-RASPIPINGPPIV.DWG | 21163-CS-RASPipingPPIV | 1:10.12364677 | — | 4/25/2025 9:11:56 AM | ADAM.COUTURE



EXISTING PIPING AND DEMOLITION PLAN

SCALE: 1"=5'

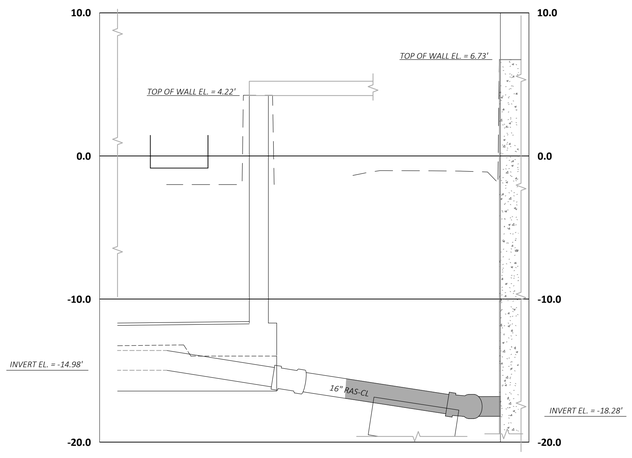
0 5 10



PROPOSED PIPING PLAN

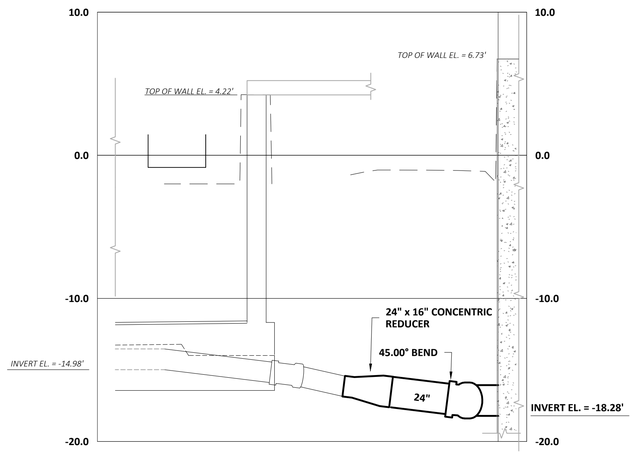
SCALE: 1"=5'

0 5 10



EXISTING PROFILE

SCALES
VERT:1"=5'
HORIZ:1"=5'



PROPOSED PROFILE

SCALES
VERT:1"=5'
HORIZ:1"=5'

GENERAL NOTES:

1. CONTRACTOR TO MODIFY OR REHABILITATE THE EXISTING PIPE SUPPORTS TO FACILITATE THE INSTALLATION OF THE NEW RAS PIPE TO BE SUPPORTED. REFER TO STRUCTURAL DETAILS FOR ADDITIONAL INFORMATION.
2. REFER TO DRAWINGS C-01-107 AND C-01-115 FOR ADDITIONAL INFORMATION REGARDING OVERALL DEMOLITION AND MODIFICATION PLANS FOR THIS WORK AREA.

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe0046278
PROFESSIONAL ENGINEER
4/30/2025

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601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

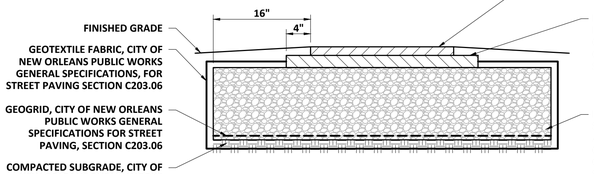
SECONDARY CLARIFIER NO. 8 EXISTING SITE PIPING, DEMOLITION AND PROPOSED PIPING PLAN AND PROFILE

DR. C.HINKLEY	C-01-112
TRC. -	
CK. W.EDGERTON	
PROJECT NO: 21163	DESIGNED BY: S.HALLOWELL
AP. S.HALLOWELL	DWG. No. 12221-W-33
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025
SET NO.	SHEET NO. 18 of 92

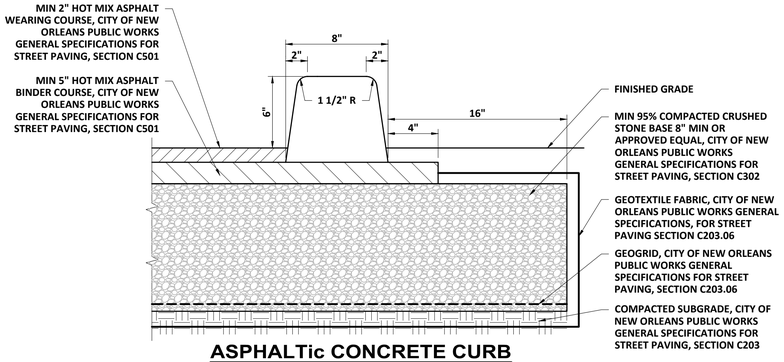
LAST SAVED BY: CHRISTOPHER.HINKLEY 4/25/2025 8:57 AM

J:\ENGV\LA\NEWORLEANS\21163-EASTBANKSTP PHASE_I_WW_IMPROVEMENTS_DRAWINGS\PHASE-1A\CIV\21163-CS-DETAILS.DWG | 21163-CS-Details | 1:10.12364677 | --- | 4/25/2025 9:12:00 AM | ADAM.COUTURE

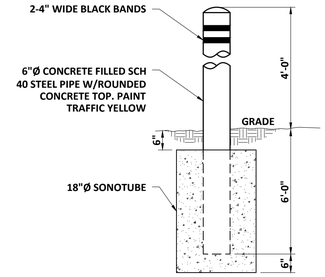
NOTE
PROVIDE TACK COAT BETWEEN ASPHALT LAYERS, CITY OF NEW ORLEANS PUBLIC WORKS GENERAL SPECIFICATIONS FOR STREET PAVING, SECTION C504.



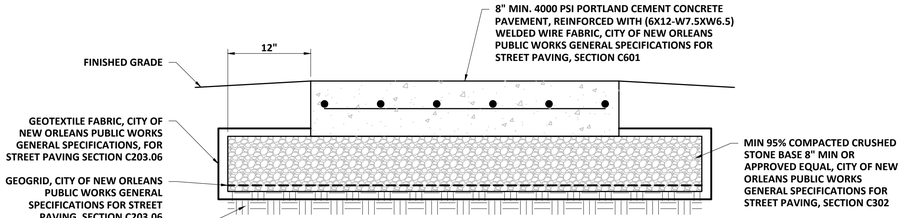
ASPHALTIC CONCRETE PAVEMENT
SCALE: NTS



ASPHALTic CONCRETE CURB
SCALE: NTS

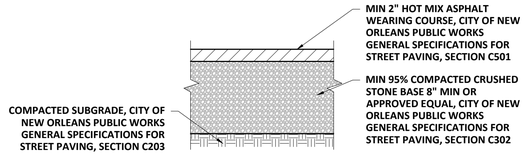


BOLLARD
SCALE: NTS



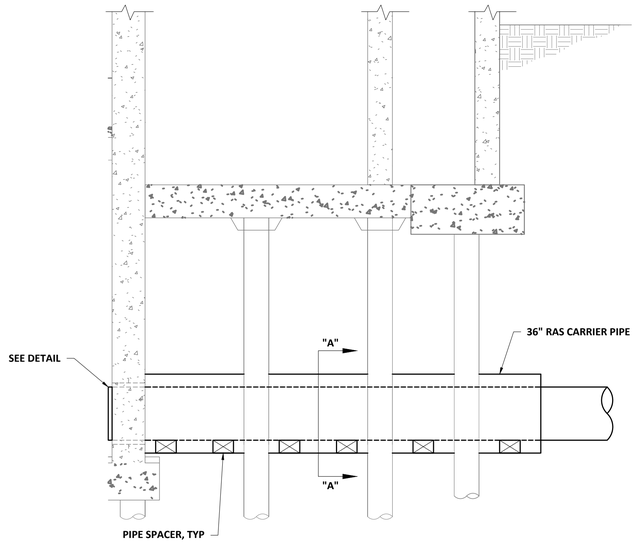
NOTE
PROVIDE EXPANSION JOINTS BETWEEN THE CONCRETE PAVEMENT AND THE EXISTING CONCRETE PAVEMENT

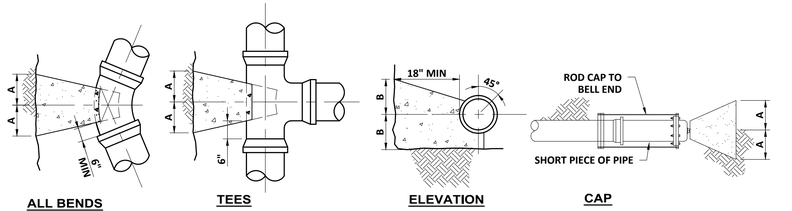
PORTLAND CEMENT CONCRETE PAVEMENT
SCALE: NTS



WALKWAY PAVEMENT
SCALE: NTS

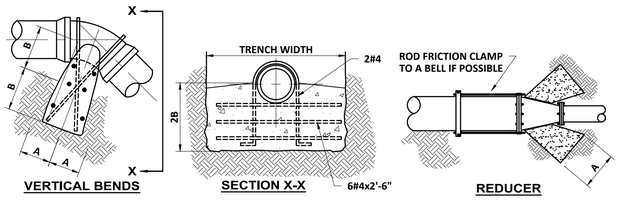
EFFLUENT CHANNEL





ALL BENDS | TEES | ELEVATION | CAP

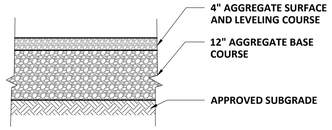
NOTES:
1. THRUST BLOCK SIZES SHOWN ARE BASED ON A SOIL BEARING CAPACITY OF 2000 PSF AND TEST PRESSURES OF 180 PSI.
2. ALL BENDS, TEES, WYES, HYDS. & DEAD ENDS SHALL BE BRACED WITH CONCRETE THRUST BLOCKS.
3. RODDING MAY BE REQUIRED



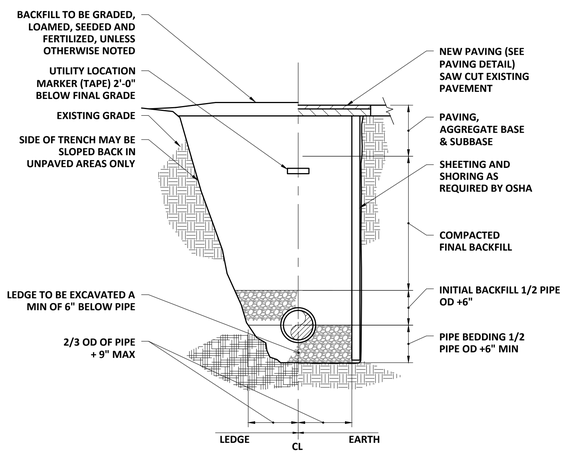
VERTICAL BENDS | SECTION X-X | REDUCER

PIPE SIZE	90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND		TEE		VERTICAL BEND (DOWN)		PLUG		REDUCER	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
4"	15"	12"	12"	9"	9"	6"	6"	6"	12"	12"	24"	21"	12"	12"	12"	12"
6"	15"	12"	12"	9"	9"	6"	6"	6"	12"	12"	24"	21"	12"	12"	12"	12"
8"	20"	15"	14"	12"	9"	9"	9"	6"	18"	12"	33"	24"	14"	14"	18"	12"
10"	21"	21"	18"	15"	15"	9"	9"	9"	20"	18"	40"	27"	16"	16"	20"	18"
12"	27"	24"	23"	15"	15"	12"	12"	9"	25"	18"	48"	30"	18"	18"	25"	18"
16"	37"	30"	30"	21"	21"	15"	13"	12"	32"	24"	57"	36"	22"	22"	32"	24"

THRUST BLOCKS
NTS

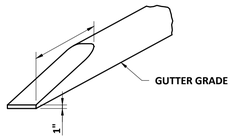


TYPICAL SECTION OF GRAVEL AREAS
SCALE: NTS

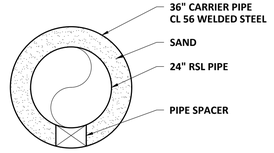


NOTES:
1. ALL EXCAVATION MUST MEET OSHA STANDARDS.
2. INSTALL 3 FOOT LONG IMPERVIOUS MATERIAL DAM IN BEDDING/INITIAL BACKFILL MATERIAL EVERY 100' AND WHERE SHOWN ON PLANS TO PREVENT TRENCH GROUNDWATER FROM BEING CHANNELED ALONG BEDDING/INITIAL BACKFILL.
3. SEE SPECIFICATIONS FOR BEDDING AND BACKFILL REQUIREMENTS.

PIPE TRENCH
SCALE: NTS



BITUMINOUS TERMINAL CURB
SCALE: NTS



SECTION "A-A"

NOTES:
1. CONTRACTOR TO CONDUCT TEST PIT TO LOCATE EXISTING PILES BENEATH EFFLUENT CHANNEL.
2. CONTRACTOR TO PUSH CARRIER PIPE BETWEEN TIMBER PILES UP AGAINST EXTERIOR BUILDING FOUNDATION WALL. REMOVE AND DISPOSE SOIL MATERIAL WITHIN CARRIER PIPE. CARRIER PIPE TO BE LEVEL.
3. CARRIER PIPE TO BE A SINGLE PIECE OF PIPE AND SHALL EXTEND 12-INCHES BEYOND NEW ELECTRICAL BUILDING FOUNDATION FOOTER.
4. CORE OPENING IN EXTERIOR BUILDING FOUNDATION WALL TO FACILITATE INSTALLATION OF RSL PIPE.
5. RSL PIPING TO BE INSTALLED INSIDE CARRIER PIPE WITH SPACERS. SIZE AND NUMBER OF SPACERS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
6. RSL PIPE TO BE A SINGLE PIECE WITH NO JOINTS WITHIN THE CARRIER PIPE. RSL PIPE SHALL EXTEND A MINIMUM 6-INCHES WITHIN THE BUILDING PUMP ROOM.
7. AFTER RSL PIPE IS INSTALLED, FILL VOID SPACE BETWEEN CARRIER PIPE AND RSL PIPE WITH SAND.

RETURN SLUDGE CARRIER PIPE INSTALLATION
SCALE: NTS

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
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4/30/2025

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PROJECT NO: 21163	DESIGNED BY: S.HALLOWELL
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025

C-01-113

DWG. No. 12221-W-33

SET NO. | SHEET NO. 19 of 92

LAST SAVED BY: CHRISTOPHER.HINKLEY 4/7/2025 12:50 PM

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EROSION AND SEDIMENTATION CONTROL NOTES:

THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE "2007 EROSION CONTROL GUIDELINES" BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL MEASURES REQUIRED ARE SHOWN ON THE PERTINENT PROPOSED LAYOUT AND SITE PIPING PLANS. PROVIDE SILT FENCE, STONE CHECK DAMS, AND OTHER EROSION CONTROL MEASURES AS REQUIRED TO ADEQUATELY PREVENT SEDIMENT TRANSPORT AS NOTED IN THE BMP.

1. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH THE "2007 EROSION CONTROL GUIDELINES" BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT.
2. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE MAINTAINED IN AN UNTREATED OR NON-VEGETATED CONDITION FOR THE MINIMUM TIME REQUIRED. IN GENERAL, AREAS TO BE VEGETATED SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL.
3. SEDIMENT BARRIERS (SILT FENCE, STONE CHECK DAMS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF UPGRADIENT DRAINAGE AREAS.
4. INSTALL SILT FENCE AT TOE OF SLOPES TO FILTER SILT FROM RUNOFF. SEE SILT FENCE DETAIL FOR PROPER INSTALLATION. SILT FENCE WILL REMAIN IN PLACE PER NOTE 5.
5. ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED, AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSE. SEDIMENT DEPOSITS MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
6. NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2 TO 1) UNLESS STABILIZED WITH PERMANENT EROSION CONTROL MEASURES.
7. IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT TO BE COMPLETED 30 DAYS PRIOR TO THE ANTICIPATED DATE OF THE FIRST KILLING FROST, USE TEMPORARY MULCHING (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY PERMANENT SEEDING, UNTIL UPGRADIENT AREAS ARE STABILIZED.
8. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS. POST SEEDING SEDIMENT, IF ANY, WILL BE DISPOSED OF IN AN ACCEPTABLE MANNER.
9. REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND REVEGETATED AS FOLLOWS:
   - A. A MINIMUM OF FOUR INCHES (4") OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
   - B. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT DEEMED FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET USING 10-10-10 (N-P205-K20) OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 4 TONS PER ACRE (180 POUNDS PER 1,000 SQUARE FEET) FOR CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL. AT A RATE OF 3 TONS PER ACRE (135 POUNDS PER 1,000 SQUARE FEET) FOR SANDY LOAM, LOAM AND SILT LOAM. AT A RATE OF 2 TONS PER ACRE (90 POUNDS PER 1,000 SQUARE FEET) FOR LOAMY SAND, AND SAND.
   - C. FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEEDED WITH A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEEDED WITH A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUEGRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYE GRASS: SEEDING RATE IS 3.0 POUNDS PER 1,000 SQUARE FEET. LAWN QUALITY SOD MAY BE SUBSTITUTED FOR SEED.
   - D. HAY MULCH AT THE RATE OF 2 TONS PER ACRE OR 90-95 POUNDS PER 1,000 SQUARE FEET OR A HYDRO-APPLICATION OF CELLULOSE FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER WILL BE USED ON HAY MULCH FOR WIND CONTROL.
11. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE WORK AREA IS STABILIZED.
12. WETLANDS (EXCEPTING THOSE WHICH ARE TO BE FILLED IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS) WILL BE PROTECTED WITH SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
13. IN GENERAL, AREAS WITHIN 100 FEET OF DELINEATED WETLANDS OR STREAMS SHALL HAVE A MAXIMUM PERIOD OF EXPOSURE OF NOT MORE THAN 15 DAYS.
14. FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IN ALL AREAS WITHIN 100 FEET OF DELINEATED WETLANDS OR STORMS.

MULCH ANCHORING:

ANCHOR MULCH WITH: MULCH NETTING (AS PER MANUFACTURER); ASPHALT EMULSION (0.05 GALLONS PER SQUARE YARD); CHEMICAL TACK (AS PER MANUFACTURER'S SPECIFICATIONS); OR BE WOOD CELLULOSE FIBER (2,000 POUNDS PER ACRE). WETTING FOR SMALL AREAS AND ROAD DITCHES MAY BE PERMITTED.

MULCH AND MULCH ANCHORING

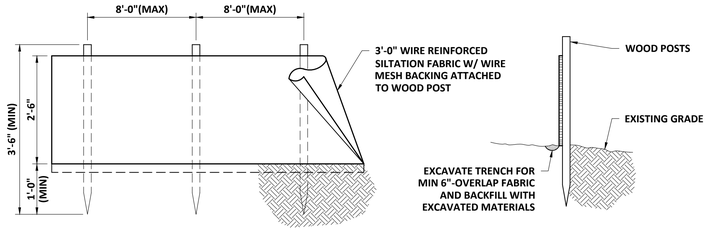
LOCATION	MULCH	RATE (PER 1,000 SF)
PROTECTED AREA	STRAW OR HAY *	100 POUNDS
WINDY AREAS	STRAW OR HAY (ANCHORED) *	100 POUNDS
MODERATE TO HIGH VELOCITY AREAS OR STEEP SLOPES (GREATER THAN 3:1)	JUTE MESH, EXCELSIOR MAT, OR EQUIV.	AS REQUIRED

* A HYDRO-APPLICATION OF CELLULOSE FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SHALL BE USED ON HAY MULCH FOR WIND CONTROL.

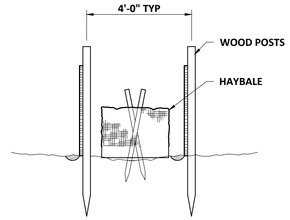
ADDITIONAL TEMPORARY SEED MIXTURE (OR PERIODS LESS THAN 12 MONTHS)

DATES	SEED	RATE
3/1 - 6/15 8/15 - 9/15	OATS	86 LB/ACRE
3/1 - 6/15 8/1 - 10/15	ANNUAL RYE GRASS	40 LB/ACRE
4/15 - 7/1 (8/15 - 10/15)	WINTER RYE	120 LB/ACRE
5/15 - 7/15	MILLET	20 LB/ACRE

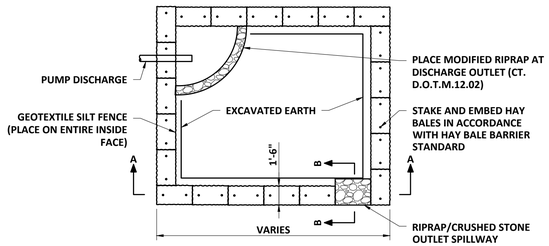
* SEED RATE ONLY



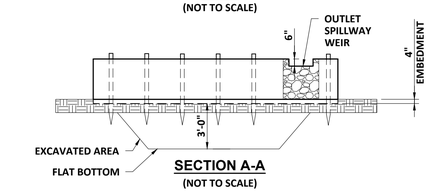
SILT FENCE INSTALLATION DETAIL
SCALE: NTS



COMBINATION SILT FENCE AND HAY BALE BARRIER
SCALE: NTS

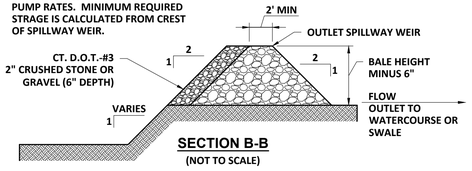


PLAN
(NOT TO SCALE)



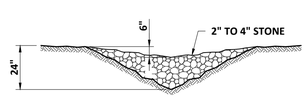
SECTION A-A
(NOT TO SCALE)

NOTES:
DIMENSION VARY ACCORDING TO PUMP RATES. MINIMUM REQUIRED STRAGE IS CALCULATED FROM CREST OF SPILLWAY WEIR.



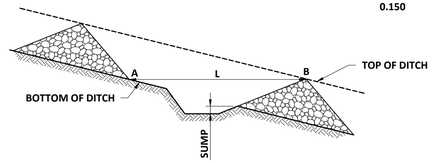
SECTION B-B
(NOT TO SCALE)

TYPE II SEDIMENTATION BASIN DETAIL
SCALE: NTS



CROSS SECTION

DITCH SLOPE (FT/FT)	L (FT)
0.020	100
0.030	66
0.040	50
0.050	40
0.080	25
0.100	20
0.120	17
0.150	13



PROFILE

STONE CHECK DAM DETAIL
SCALE: NTS

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

EROSION CONTROL NOTES AND DETAILS

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
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PROJECT NO: 21163	DESIGNED BY: S.HALLOWELL	DR. C.HINKLEY	C-01-114
SUBMISSION: CONTRACT DRAWINGS		TRC. -	
CAD COORD: A.COUTURE		CK. W.EDGERTON	
		AP. S.HALLOWELL	DWG. No. 12221-W-33
		SCALE: AS NOTED	
		DATE: APRIL 2025	SET NO. SHEET NO. 20 of 92

STRUCTURAL NOTES

GENERAL NOTES:

1. EXISTING DIMENSIONS AND/OR ELEVATIONS TAKEN FROM THE FOLLOWING RECORD DRAWINGS:
   1.1 "EAST BANK SEWAGE AND TREATMENT PLANT" BY RICE, DORNBLATT, AND ERNST DATED AUGUST, 1964
   1.2 "EXPANSION OF THE EAST BANK SEWAGE TREATEMENT FACILITIES" BY WALDEMAR S.NELSON AND COMPANY DATED JULY, 1981
2. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
3. * INDICATES THAT THE GENERAL CONTRACTOR SHALL COORDINATE EXACT DIMENSION AND/OR ELEVATION BASED ON EQUIPMENT SUPPLIED. ALL CHANGES SHALL BE REVIEWED WITH NO EXCEPTIONS TAKEN BY THE ENGINEER.
4. DO NOT SCALE DISTANCES OR DIMENSIONS FROM THE DRAWINGS. WRITTEN DIMENSIONS SHALL PREVAIL. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
5. ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS, SHOP DRAWINGS (REVIEWED WITH NO EXCEPTIONS TAKEN) AND SPECIFICATIONS.
6. THE CONTRACTOR SHALL COORDINATE PREPARED OPENING SIZES AND LOCATIONS WITH THE VARIOUS CONSTRUCTION TRADES AND EQUIPMENT MANUFACTURERS. MANY SLEEVE SIZES AND PREPARED OPENING SIZES ARE LARGER THAN THE NOMINAL DIMENSION IN ORDER TO ACCOMMODATE THE EQUIPMENT.
7. THE DETAILS, STRUCTURAL NOTES, ABBREVIATIONS AND LEGEND SHOWN ON DRAWINGS S-00-001 AND S-00-002. S-99-501 THROUGH S-99-507 SHOULD BE USED WHOLLY OR IN PART WHERE THEY APPLY EXCEPT WHERE MODIFIED BY THE DETAILED DRAWINGS OR SPECIFICATIONS.

CONCRETE DEMOLITION NOTES:

1. REFERENCE SPECIFICATION - 02050A - DEMOLITION.
2. STRUCTURAL DEMOLITION INCLUDES THAT SHOWN ON ALL OTHER DISCIPLINE DRAWINGS INCLUDING CIVIL, ARCHITECTURAL, PROCESS, MECHANICAL, PLUMBING AND ELECTRICAL, WHETHER OR NOT SHOWN ON STRUCTURAL DRAWINGS.
3. CONCRETE PADS SHALL BE DEMOLISHED AT ALL LOCATIONS WHERE EQUIPMENT IS DEMOLISHED, UNLESS NOTED OTHERWISE.
4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL CONCRETE, EQUIPMENT AND MATERIALS INDICATED TO BE DEMOLISHED UNLESS OTHERWISE INDICATED.
5. DETAILS AND SECTIONS SHOWN FOR REMOVING OR MODIFYING CONCRETE ARE BASED ON EXISTING REFERENCED DRAWINGS. IF CONDITIONS DIFFER FROM THOSE AS SHOWN ON THE REFERENCED DRAWINGS, GENERAL CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO BEGINNING THE DEMOLITION WORK.
6. VEHICLE-MOUNTED HYDRAULIC HAMMERS ARE NOT PERMITTED TO REMOVE CONCRETE FROM CONCRETE TO REMAIN, EXCEPT IF ABANDONED. UNLESS OTHERWISE PERMITTED, LINE DRILLING OR SAW CUTTING IS REQUIRED. GENERAL CONTRACTOR SHALL USE CAUTION TO AVOID DAMAGING EXISTING CONCRETE STRUCTURES TO REMAIN.
7. WHERE LIMIT OF CONCRETE DEMOLITION PROVIDES INTERFACE WITH NEW CONCRETE, USE OF SCABBLERS, SCARIFIERS, BUSH HAMMERS, AND PNEUMATIC HAMMERS GREATER THAN 15 POUNDS IS NOT PERMITTED UNLESS FOLLOWED BY STEEL SHOT-BLASTING, ABRASIVE BLASTING, OR HIGH-PRESSURE WATER-JETTING. PNEUMATIC HAMMERS GREATER 15 POUNDS ARE PERMITTED FOR REMOVAL OF CONCRETE FROM AROUND REINFORCEMENT TO REMAIN, WITH THE CONCRETE SURFACE PREPARED AS DESCRIBED ABOVE.
8. GENERAL CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF CONTRACTOR ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
9. GENERAL CONTRACTOR SHALL THOROUGHLY CLEAN EXISTING CONCRETE TO BE MODIFIED PRIOR TO STARTING WORK.
10. ALL WALL AND/OR FLOOR PENETRATIONS REMAINING AFTER THE REMOVAL OF PIPING, CONDUIT, HATCHES AND OTHER EMBEDDED ITEMS ARE TO BE INFILLED WITH REINFORCED CONCRETE AND FINISHED FLUSH TO MATCH EXISTING SURFACES, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
11. GENERAL CONTRACTOR SHALL COORDINATE THE INDICATED DEMOLITION WITH THE ASSOCIATED PROPOSED NEW WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
12. WHEN REMOVING PORTIONS OF EXISTING CONCRETE OR CONCRETE FILL, ALL OVERCUT CONCRETE SHALL BE PATCHED WITH REPAIR MATERIAL FLUSH WITH REMAINING CONCRETE.
13. AT ALL CUT REINFORCEMENT WHERE SURFACES ARE TO REMAIN EXPOSED, AND EXCEPT WHERE BURIED, CHIP BACK SURROUNDING CONCRETE AS NECESSARY TO GRIND BREAK RESULTS HAVE BEEN REVIEWED BY THE ENGINEER. PROPOSED NEW WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

FOUNDATION NOTES:

1. BACKFILLING WALLS SHALL NOT COMMENCE UNTIL THEY HAVE BEEN IN PLACE AND CURED FOR A MINIMUM OF 7 DAYS AND THE 7 DAY LAB CURED CYLINDER BREAK RESULTS HAVE BEEN REVIEWED BY THE ENGINEER.
2. EXISTING SOIL CONDITIONS ARE DESCRIBED IN THE BORING LOGS. IF UNSUITABLE BEARING MATERIAL IS ENCOUNTERED NOTIFY THE ENGINEER.
3. GENERAL CONTRACTOR SHALL PROVIDE SUPPORT BELOW EXISTING FOUNDATIONS WHEN EXCAVATION FOR NEW WORK MAY OTHERWISE UNDERMINE OR CAUSE INSTABILITY OF THE EXISTING FOUNDATIONS.

CAST-IN-PLACE REINFORCED CONCRETE NOTES:

1. REFERENCE SPECIFICATIONS - DIVISION 3
2. REINFORCED CONCRETE WAS DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
   - ACI 318-19 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   - ACI 350-20 - CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES
3. DESIGN CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS:
   STRUCTURAL CONCRETE - f'c = 5,000 PSI
   OTHER CONCRETE - SEE SPECIFICATIONS
4. INDEPENDENT TESTING LABORATORY WILL PERFORM TESTS FOR ALL CONCRETE TRUCKS IN ACCORDANCE WITH THE SPECIFICATIONS.
5. REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615/A615M OR A706/A706M, GRADE 60 DEFORMED BARS. FABRICATION SHALL BE IN ACCORDANCE WITH THE CRSI CODE OF STANDARD PRACTICE.
6. 90 DEGREE BENDS IN REINFORCEMENT SHALL BE ACI STANDARD LENGTH UNLESS SHOWN OTHERWISE, SUCH AS WHERE A SPLICE LENGTH IS REQUIRED.
7. REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE CLEAR COVER UNLESS OTHERWISE NOTED:
   - CONCRETE CAST AGAINST EARTH: 3 INCHES
   - WHERE REQUIRED TO CLEAR 6" WATERSTOP: 3 INCHES
   - ALL OTHER CONCRETE SURFACES: 2 INCHES
8. PROVIDE ADDITIONAL REINFORCEMENT AT SLAB AND WALL OPENINGS AS INDICATED ON THE TYPICAL STRUCTURAL DETAILS.
9. CONSTRUCTION JOINTS SHALL NOT BE PLACED AT LOCATIONS OTHER THAN SHOWN ON THE DRAWINGS UNLESS REVIEWED WITH NO EXCEPTIONS TAKEN BY THE ENGINEER.
10. PVC WATERSTOPS SHALL BE INSTALLED IN CONSTRUCTION JOINTS OF ALL LIQUID RETAINING STRUCTURES AND IN ALL EXTERIOR CONSTRUCTION JOINTS OF BELOW GRADE SPACES, EXCEPT WHERE HYDROPHILIC RUBBER WATERSTOPS ARE SHOWN.
11. FORM TIES IN LIQUID RETAINING WALLS AND EXTERIOR WALLS OF BELOW GRADE SPACES SHALL INCLUDE WATERSTOP WASHERS OR OTHER SPECIFIED MEANS TO PREVENT LEAKAGE.
12. ALL CONCRETE PENETRATIONS ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. SEE ALL INDIVIDUAL DISCIPLINE DRAWINGS FOR ALL REQUIRED PENETRATIONS, INCLUDING PIPE AND DUCT PENETRATIONS.
13. PIPE PENETRATIONS THAT ARE SHOWN ARE APPROXIMATE ONLY, AND SHALL BE OFFSET A MINIMUM OF 6 INCHES FROM ALL CONSTRUCTION JOINTS.
14. PROVIDE CHAMFERS AT ALL EXPOSED CORNERS AND EDGES, EXCEPT THOSE DIRECTLY BELOW MASONRY AND STUD WALLS.
15. SEE ALL INDIVIDUAL DISCIPLINE DRAWINGS FOR REQUIRED EQUIPMENT PADS AND PROVIDE A MINIMUM 4 INCH THICK REINFORCED CONCRETE PAD BELOW ALL EQUIPMENT, PIPE SUPPORTS, STANCHIONS, CONTROL PANELS, CHEMICAL TANKS, LOCKERS, ETC., AS APPLICABLE, UNLESS OTHERWISE NOTED. SIZE AND LOCATION OF EQUIPMENT PADS AND ANCHOR BOLTS SHALL BE AS REQUIRED BY THE EQUIPMENT MANUFACTURER UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
16. WHERE NEW CONCRETE IS TO BE PLACED AGAINST PRE-EXISTING CONCRETE, UNLESS NOTED OTHERWISE, ROUGHEN AND CLEAN SUBSTRATE AND APPLY BONDING AGENT AS SPECIFIED.
17. ALL PIPING INSTALLED BELOW STRUCTURAL SLABS ON GROUND SHALL BE ENCASED IN CONCRETE. GRAVITY SANITARY SEWER AND DRAIN PIPES BELOW NON-STRUCTURAL SLABS-ON-GROUND NEED NOT BE CONCRETE ENCASED, UNLESS NOTED OTHERWISE.

METAL DECK NOTES:

1. REFERENCE SPECIFICATION 05310 - METAL DECKING
2. METAL DECK SHALL CONFORM TO THE REQUIREMENTS OF ANSI/SDI RD-2010 STANDARD FOR STEEL ROOF DECK.
3. METAL DECK SHEETS SHALL BE PROVIDED IN THE LONGEST LENGTHS POSSIBLE BUT NO LESS THAN THREE (3) SPANS.
4. METAL DECK TYPE AND THICKNESS SHALL BE AS INDICATED ON THE DRAWINGS.
5. METAL DECK FINISH SHALL BE GALVANIZED.
6. DECK SHALL BE EITHER WELDED OR SCREWED TO ALL SUPPORTING ROOF STEEL TO ACCOMMODATE DIAPHRAGM ACTION AS INDICATED BELOW:
   6.1 SCREWED CONNECTIONS:
      6.1.1 AT END AND INTERIOR TRANSVERSE SUPPORTS (BEARING SUPPORTS PERPENDICULAR TO DECK SPAN) BY #12 TEK SCREWS AT THE BOTTOM OF EVERY SECOND RIB AT EACH SUPPORT AND AT A SPACING NOT TO EXCEED 12" WITH ONE SCREW ALWAYS OCCURRING AT THE SIDE LAPS (36/4 PATTERN).
      6.1.2 AT INTERIOR AND EXTERIOR LONGITUDINAL SUPPORTS (SUPPORTS PARALLEL TO DECK SPAN) BY #12 TEK SCREWS AT 12" ON CENTER
      6.1.3 THE DECK SHEETS SHALL BE CONNECTED ALONG THEIR SIDE LAPS BY #10 TEK SCREWS. THE NUMBER OF SIDE LAP FASTENERS SHALL BE NO LESS THAN 4 FASTENERS PER DECK SPAN. SIDE LAP ONE FLUTE.
7. OPENINGS IN DECK - ALL OPENINGS IN THE METAL DECK SHALL BE FIELD CUT. THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF THE TRADES INVOLVED TO ENSURE PROPER PROVISION FOR THE SUPPORT AND ATTACHMENT OF DECK AROUND OPENINGS. OPENINGS SHALL BE REINFORCED AS FOLLOWS:
   7.1 OPENINGS LESS THAN 6" IN DIAMETER OR LARGEST SIDE LENGTH AND NO GREATER THAN 2 WEBS REMOVED, ADDITIONAL REINFORCING NOT REQUIRED.
   7.2 OPENINGS GREATER THAN OR EQUAL TO 6" AND LESS THAN OR EQUAL TO 12" PROVIDE REINFORCING PLATE. SIZE OF PLATE SHALL BE A MINIMUM 12" GREATER THAN THE OPENING ON ALL SIDES SUCH THAT THE PLATE SPANS ACROSS A MINIMUM 3 FLUTES.
   7.3 OPENINGS GREATER THAN 12 INCHES PROVIDE FRAMING AS INDICATED ON THE CONTRACT DRAWINGS. IF ADDITIONAL FRAMING IS NOT INDICATED ON THE CONTRACT DRAWINGS, PROVIDE THE MINIMUM FRAMING INDICATED BELOW:
      7.3.1 SPAN OF FRAMING MEMBER LESS THAN 3'-0" C8X11.5
      7.3.2 SPAN OF FRAMING MEMBER GREATER THAN OR EQUAL TO 3'-0" AND LESS THAN 6'-0" C10X20
      7.3.3 MAIN FRAMING SHALL BE INSTALLED PERPENDICULAR TO THE DECK SPAN SUCH THAT THE DECK BEARS ON THE TOP FLANGE. SECONDARY FRAMING INSTALLED PARALLEL WITH THE DECK SPAN WITH ADDITIONAL FRAMING WELDED TO THE TOP FLANGE TO PROVIDE POSITIVE BEARING AS REQUIRED.

PIPE SUPPORT NOTES:

1. THE FOLLOWING RESTRICTIONS FOR SUPPORTING PIPES FROM NEW AND EXISTING STRUCTURES IN THE TABLE BELOW SHALL APPLY TO ALL PIPE SUPPORTS:

AREA	EXISTING STRUCTURES	NEW STRUCTURES
FLOOR SYSTEMS		
REINFORCED CONCRETE SLAB:		
ELEVATED SLAB	NO	YES
MAT SLAB/ BASE SLAB	YES	YES
SLAB-ON-GROUND	YES	YES
ROOF SYSTEMS		
REINFORCED CONCRETE SLAB	NO	YES
STEEL JOISTS	NO	NO
STEEL FRAME	NO	YES
METAL DECK	NO	NO
OTHER SYSTEMS		
METAL AND CONCRETE STAIRS	NO	NO
CONCRETE WALLS	YES	YES

NOTE: "NO" INDICATES THAT PIPES MAY NOT BE SUPPORTED FROM THE INDICATED STRUCTURE AND "YES" INDICATES THAT PIPES MAY BE SUPPORTED FROM THE INDICATED STRUCTURE. THE RESTRICTIONS APPLY TO BEARING THE PIPE SUPPORT ABOVE, HANGING BELOW, OR HANGING THE PIPE FROM THE SIDE OF THE INDICATED STRUCTURAL ELEMENT. ALL PIPE SUPPORTS SUPPORTED FROM STRUCTURES SHALL BE SUBJECTED TO REVIEW WITH NO EXCEPTIONS TAKEN BY THE ENGINEER.

MASONRY NOTES:

1. REFERENCE SPECIFICATION - 04200 - UNIT MASONRY
2. DESIGN COMPRESSIVE STRENGTH OF MASONRY ASSEMBLAGE: f'm = 2000 PSI
3. MORTAR SHALL CONFORM TO ASTM C270 TYPE S WITH 28 DAY COMPRESSIVE STRENGTH OF 1800 PSI.
4. CMU BLOCK SHALL CONFORM TO ASTM C90 (NORMAL WEIGHT OR LIGHTWEIGHT) WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
5. GROUT SHALL CONFORM TO ASTM C476 FINE GROUT WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI.
6. GROUTED REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO ASTM SPECIFICATION A615 GRADE 60 DEFORMED BARS. FABRICATION SHALL BE IN ACCORDANCE WITH THE CRSI CODE OF STANDARD PRACTICE.
7. GROUT CMU CELLS SOLID AT THE FOLLOWING LOCATIONS:
   7.1 EXPANSION AND EPOXY ADHERED ANCHORS
   7.2 REINFORCED CELLS
   7.3 CELLS BELOW LINTELS AND BEAMS BEARING ON CMU.
8. DEFINITIONS:
   BEARING WALL: WALL CARRYING VERTICAL LOADS GREATER THAN 200 LBS PER LINEAR FOOT IN ADDITION TO ITS OWN WEIGHT.
   SHEAR WALL: BEARING OR NON-BEARING WALL THAT IS DESIGNED TO CARRY IN-PLANE LATERAL LOADS OTHER THAN THOSE INDUCED BY ITS OWN MASS.
   EXTERIOR WALL: A WALL SUBJECTED TO WIND LOAD FOR ANY FRACTION OF ITS HEIGHT OR LENGTH.
   STRUCTURAL WALL: A BEARING OR SHEAR OR EXTERIOR WALL.
   PARTITION WALL: A NON-STRUCTURAL WALL.

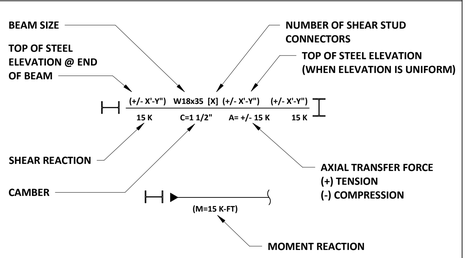
STRUCTURAL STEEL NOTES:

1. REFERENCE SPECIFICATIONS - 05120 - - STRUCTURAL STEEL
2. STRUCTURAL STEEL AND STEEL LINTELS SHALL CONFORM TO THE FOLLOWING:
   2.1 WIDE FLANGE BEAM ("W" SHAPES) - ASTM A992
   2.2 STANDARD BEAMS ("S" SHAPES) - ASTM A36
   2.3 CHANNELS AND ANGLES - ASTM A36
   2.4 PLATES - ASTM A572 GRADE 50
   2.5 STRUCTURAL STEEL TUBING ("HSS" SHAPES) - ASTM A500 (GRADE C)
3. STRUCTURAL STEEL SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE AISC STEEL CONSTRUCTION MANUAL.
4. CONNECTIONS:
   4.1 FIELD BOLTED CONNECTIONS SHALL BE WITH ASTM F3125 GRADE 325 HIGH STRENGTH BOLTS EXCEPT AS NOTED. BOLTS SHALL BE 3/4" DIA IN 13/16" HOLES EXCEPT AS NOTED. ALL BOLTED CONNECTIONS SHALL BE CONSIDERED "SNUG TIGHTENED".
5. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 55, ANCHOR RODS SHALL HAVE A 3" THREADED PROJECTION ABOVE THE BASE PLATE AND A HEADED END WITH WELDED WASHER AT THE EMBEDDED END.
6. ALL WELDING SHALL BE PERFORMED IN THE SHOP USING E70XX ELECTRODES IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE.
7. ALL STRUCTURAL STEEL, BOLTS AND ANCHOR RODS SHALL BE HOT-DIPPED GALVANIZED AND/OR PAINTED AS SPECIFIED. GALVANIZE STEEL PRIOR TO BOLTING TO OTHER ASSEMBLIES AND AFTER ALL WELDING (IF POSSIBLE).
8. FLAME CUTTING OR BURNING OF STRUCTURAL STEEL IS NOT PERMITTED.
9. ALL SURFACES OF UNCOATED STRUCTURAL STEEL AND FASTENERS THAT ARE IN CONTACT WITH OR EMBEDDED IN CONCRETE, GROUT, OR MASONRY SHALL BE COATED WITH EPOXY PAINT (MIN 5 MIL DFT) REFER TO SPECIFICATION 09900 - PAINTING FOR ADDITIONAL INFORMATION
10. ALL SURFACES OF DISSIMILAR METALS IN CONTACT SHALL BE COATED WITH EPOXY PAINT (MIN 5 MIL DFT) REFER TO SPECIFICATION 09900 - PAINTING FOR ADDITIONAL INFORMATION.
11. ALL COLUMNS SHALL BEAR ON A MINIMUM 1" GROUT PAD, UNLESS NOTED OTHERWISE.
12. ALL GALVANIZED COATINGS DAMAGED DURING SHIPMENT OR INSTALLATION SHALL BE COATED WITH A ZINC RICH COATING APPROPRIATE FOR THE APPLICATION.

METALS NOTES:

1. REFERENCE SPECIFICATION - 05500
2. ANCHOR RODS SHALL CONFORM TO ASTM F1554 GRADE 55.
3. STEEL BOLTS SHALL CONFORM TO ASTM F3125 GRADE 325 UNLESS OTHERWISE NOTED.
4. ALUMINUM SHAPES SHALL CONFORM TO ASTM B308 ALLOY 6061-T6 UNLESS OTHERWISE NOTED.
5. STAINLESS STEEL FASTENERS SHALL CONFORM TO ASTM F593 AND ASTM F594 (TYPE 316).
6. EPOXY AND EXPANSION ANCHORS SHALL BE TYPE 316 STAINLESS STEEL. EMBEDMENT DEPTH OF THESE ANCHORS SHALL BE NOT LESS THAN 6 INCHES UNLESS NOTED OTHERWISE.
7. NEOPRENE BEARING PADS SHALL BE HIGH GRADE WITH A SHORE A DUROMETER HARDNESS EQUAL TO SOFT (35-45).
8. ALL SURFACES OF UNCOATED STEEL (EXCEPT REINFORCING STEEL) AND ALUMINUM SHAPES AND FASTENERS THAT ARE IN CONTACT WITH OR EMBEDDED IN CONCRETE, GROUT, OR MASONRY SHALL BE COATED WITH EPOXY PAINT (MIN 5 MIL DFT) REFER TO SPECIFICATION 09900 - PAINTING FOR ADDITIONAL INFORMATION
9. ALL SURFACES OF DISSIMILAR METALS IN CONTACT SHALL BE COATED WITH EPOXY PAINT (MIN 5 MIL DFT) REFER TO SPECIFICATION 09900 - PAINTING FOR ADDITIONAL INFORMATION

BEAM LEGEND



NOTE:
1. MINIMUM BEAM END SHEAR REACTION, 15 KIPS (LRFD).
2. USE 15 K-FT MINIMUM BEAM END MOMENT REACTION WHERE MOMENT CONNECTION IS INDICATED WITHOUT MOMENT REACTION.
3. REACTIONS AND FORCES NOTED ON DRAWINGS ARE (LRFD) AND ARE TYPICAL AT EACH BEAM END UNLESS NOTED OTHERWISE.

TOP OF STEEL ELEVATION AS INDICATED PER PLAN DRAWINGS

MINIMUM REINFORCING BAR SPLICE LENGTHS (IN.)
fy = 60,000 f'c = 5,000

BAR SIZE	TOP BARS	OTHER BARS
4	18	14
5	22	17
6	26	20
7	38	29
8	44	34
9	54	42
10	66	51
11	80	61

NOTES:
1. THIS TABLE IS BASED ON NORMAL WEIGHT CONCRETE, UNCOATED BARS.
2. TOP BARS = HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
3. FOR f'c OTHER THAN 5,000 PSI, MULTIPLY THE VALUES IN THE TABLE BY THE SQUARE ROOT OF 5,000 BY THE SQUARE ROOT OF f'c.

STATE OF LOUISIANA — ROBERT R. CYR — License No. 46829 — PROFESSIONAL ENGINEER
4/25/2025

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

TYPICAL STRUCTURAL NOTES I

PROJECT NO: 21163	DESIGNED BY: J.KELLOGG
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

DR. A.NESBIT	
TRC. -	
CK. J.KELLOGG	
AP. R.CYR	
SCALE: AS NOTED	
DATE: APRIL 2025	

S-00-001

DWG. No. 12221-W-33

SET NO. | SHEET NO. 21 of 92

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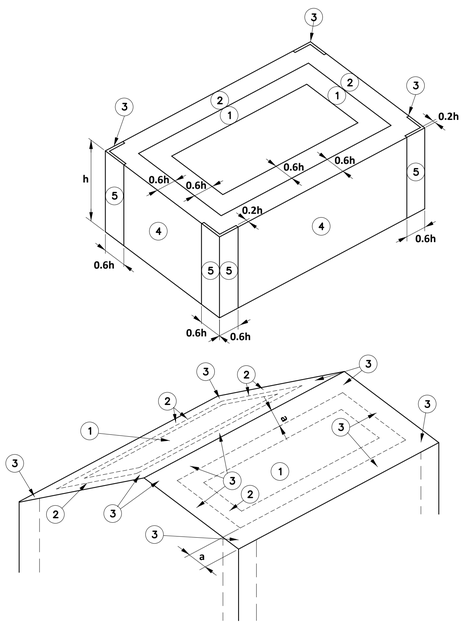
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SCHEDULE OF SPECIAL INSPECTIONS

LABC REFERENCE	MATERIAL / ACTIVITY	EXTENT	LABC REFERENCE	MATERIAL / ACTIVITY	EXTENT
1704.2.5.1	**INSPECTION OF FABRICATORS**		**1705.4**	**MASONRY CONSTRUCTION**	
	VERIFY FABRICATION/QUALITY CONTROL PROCEDURES	PERIODIC		1. VERIFY COMPLIANCE WITH APPROVED SUBMITTALS	PERIODIC
1705.2	**STEEL CONSTRUCTION**			2. VERIFICATION OF F'M PRIOR TO CONSTRUCTION	PERIODIC
	1. FABRICATOR AND ERECTOR DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN AISC 360, CHAPTER N, PARAGRAPH 3.2 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS)	EACH SUBMITTAL		3. VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) OF SELF-CONSOLIDATING GROUT AS DELIVERED TO THE PROJECT	CONTINUOUS
	2. MATERIAL VERIFICATION OF STRUCTURAL STEEL	PERIODIC		4. VERIFY PLACEMENT OF MASONRY UNITS	PERIODIC
	3. EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE, LENGTH, EMBEDMENT. SEE 1705.3 FOR ANCHORS)	PERIODIC		5. VERIFY PROPORTIONS OF SITE-MIXED MORTAR AND GROUT	PERIODIC
	4. VERIFY MEMBER LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION COMPLY WITH CONSTRUCTION DOCUMENTS	PERIODIC		6. VERIFY GRADE, TYPE, AND SIZE OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	PERIODIC
	5. STRUCTURAL STEEL WELDING:			7. VERIFY CONSTRUCTION OF MORTAR JOINTS	PERIODIC
	A. INSPECTION TASKS PRIOR TO WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-1)	OBSERVE OR PERFORM AS NOTED		8. VERIFY PLACEMENT OF REINFORCEMENT, AND CONNECTORS	PERIODIC
	B. INSPECTION TASKS DURING WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-2)	OBSERVE OR PERFORM AS NOTED		9. VERIFY GROUT SPACE PRIOR TO GROUTING	PERIODIC
	C. INSPECTION TASKS AFTER WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-3)	OBSERVE OR PERFORM AS NOTED		10. VERIFY PLACEMENT OF GROUT	CONTINUOUS
	D. NONDESTRUCTIVE TESTING (NDT) OF WELDED JOINTS: SEE AISC COMMENTARY			11. VERIFY SIZE AND LOCATION OF STRUCTURAL MASONRY ELEMENTS	PERIODIC
	1) COMPLETE JOINT PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY III OR IV	PERIODIC		12. VERIFY TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	PERIODIC
	2) COMPLETE JOINT PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY II	PERIODIC		13. VERIFY PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40OF) OR HOT WEATHER (TEMPERATURE ABOVE 90OF)	PERIODIC
	3) WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, APPENDIX 3, TABLE A-3.1	PERIODIC		14. PREPARE GROUT AND MORTAR SPECIMENS	PERIODIC
	4) FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT	EACH SUBMITTAL		15. OBSERVE PREPARATION OF PRISMS	PERIODIC
	6. STRUCTURAL STEEL BOLTING:		**1705.6**	**SOILS**	
	A. INSPECTION TASKS PRIOR TO BOLTING (OBSERVE, OR PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-1)	OBSERVE OR PERFORM AS NOTED		1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC
	B.INSPECTION TASKS DURING BOLTING (OBSERVE THE QA TASKS LISTED IN AISC 360, TABLE N5.6-2)	OBSERVE		2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC
	1) PRE-TENSIONED AND SLIP-CRITICAL JOINTS			3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	PERIODIC
	A) TURN-OF-NUT WITH MATCHING MARKINGS	PERIODIC		4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	CONTINUOUS
	B) DIRECT TENSION INDICATOR	PERIODIC		5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN...	PERIODIC
	C) TWIST-OFF TYPE TENSION CONTROL BOLT	PERIODIC	**1705.7**	**DRIVEN DEEP FOUNDATIONS**	
	D) TURN-OF-NUT WITHOUT MATCHING MARKINGS	CONTINUOUS		1. VERIFY ELEMENT MATERIALS, SIZES AND LENGTHS COMPLY WITH REQUIREMENTS	CONTINUOUS
	E) CALIBRATED WRENCH	CONTINUOUS		2. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED	CONTINUOUS
	2) SNUG-TIGHT JOINTS	PERIODIC		3. INSPECT DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	CONTINUOUS
	C. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-3)	PERFORM		4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT	CONTINUOUS
1705.2.2	**COLD-FORMED STEEL DECK**			5. FOR STEEL ELEMENTS, PERFORM ADDITIONAL INSPECTIONS PER SECTION 1705.2	SEE SECTION 1705.2
	1. INSPECTION OF COLD-FORMED STEEL FLOOR AND ROOF DECK IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC.	PERIODIC		6. FOR CONCRETE ELEMENTS AND CONCRETE-FILLED ELEMENTS, PERFORM ADDITIONAL INSPECTIONS PER SECTION 1705.3	SEE SECTION 1705.3
1705.3	**CONCRETE CONSTRUCTION**			7. PERFORM ADDITIONAL INSPECTIONS AND TESTS IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS	IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS
	1. INSPECTION OF REINFORCING STEEL INSTALLATION	PERIODIC	**1705.11.3**	**WIND-RESISTING COMPONENTS**	
	2. INSPECTION OF ANCHORS CAST IN CONCRETE	PERIODIC		1. ROOF CLADDING AND CONNECTIONS	PERIODIC
	3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS			2. WALL CLADDING AND CONNECTIONS	PERIODIC
	A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	CONTINUOUS			
	B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 3.A	PERIODIC			
	4. VERIFY USE OF APPROVED DESIGN MIX	PERIODIC			
	5. FRESH CONCRETE SAMPLING, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE TEMPERATURE OF CONCRETE	CONTINUOUS			
	6. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	CONTINUOUS			
	7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	PERIODIC			
	8. INSPECTION OF FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS	PERIODIC			

ABBREVIATIONS

ALUMINUM	ALUM, AL	NOT TO SCALE	NTS	STRUCTURAL DESIGN CRITERIA:	
AND	&	NUMBER	NO		
ANGLE	∠	ON CENTER	OC	GEOTECHNICAL:	
ARCHITECTURAL	ARCH	OPENING	OPNG		
AT	@	OUTSIDE DIAMETER	OD	DESIGN GROUNDWATER ELEVATION: AT GRADE	
BEAM	BM	OUTSIDE FACE	OF	DESIGN FLOOD ELEVATION: EL 4.00	
BOTTOM	BOT, B/	PERIMETER	PERIM	LATERAL EARTH PRESSURES (BELOW GRADE STRUCTURES):	
CROSS BRACING	CB	PLATE	PL	ABOVE GROUNDWATER = 65 PSF/FT (UNIFORM VARYING)	
CENTER	CTR	POUND	#	BELOW GROUNDWATER = 95 PSF/FT (UNIFORM VARYING)	
CENTERLINE	CL	POUNDS PER SQUARE FOOT	PSF	SURCHARGE = 75 PSF/FT (BASED ON 300 PSF UNIFORM LOAD)	
CLEAR	CLR	POUNDS PER SQUARE INCH	PSI	LATERAL HYDROSTATIC PRESSURES:	
COLUMN	COL	PRESSURE RELIEF VALVE	PRV	STATIC = 65 PSF/FT (UNIFORM VARYING)	
CONCRETE	CONC	PROCESS	PROC	ALLOWABLE SUBGRADE BEARING PRESSURE = N/A	
CONCRETE MASONRY UNIT	CMU	PROJECTION	PROJ	NET ALLOWABLE SUBGRADE BEARING CAPACITY = N/A	
CONTINUOUS	CONT	REINFORCING	REINF		
CONTROL JOINT	CJ	REQUIRED	REQ'D	LIVE LOADS:	
CONTROL JOINT (TYPE 1)	CJ (1)	RISER	R		
CONTROL JOINT (TYPE 2)	CJ (2)	ROUGH OPENING	RO	REF:	
CONSTRUCTION JOINT	CNJ	SCHEDULE	SCH	ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES	
DETAIL	DET	SECTION	SECT	2021 INTERNATIONAL BUILDING CODE	
DRY FILM THICKNESS	DFT	SHEET	SHT	BUILDING CODE 2021 OF LOUISIANA	
DIAMETER	DIA, ∅	SHORT LEG VERTICAL	SLV		
DOWEL BAR SPLICERS	DBS	SIMILAR	SIM	RISK CATEGORY III	
DOWEL	DWL	SLOPE	SL		
EACH END	EE	SPACE(ING)	SP	WIND LOADS	
EACH FACE	EF	SPECIFICATION	SPEC		
EACH WAY	EW	SQUARE	SQ	BASIC WIND SPEED (V):	
ELECTRICAL	ELEC	SYMMETRICAL	SYM	Vult = 160 MPH (SAFFIR-SIMPSON HURRICANE WIND SCALE: CATEGORY 5)	
ELEVATION	ELEV, EL	STANDARD	STD	Vasd = 123 MPH	
EQUAL	EQ	STRUCTURAL	STRUCT	IMPORTANCE FACTOR (I_w) = 1.00	
EXISTING	EXIST	STAINLESS STEEL	SS	EXPOSURE CATEGORY D	
EXPANSION JOINT	EJ	STEEL	STL	INTERNAL PRESSURE COEFFICIENT (GC_{pi}) = ±0.18	
EXPANSION	EXP	THICKNESS	THK		
EXTERIOR	EXT	TOP	T, T/	SNOW LOADS	
FEET	FT	TOP & BOTTOM	T & B		
FLOOR DRAIN	FD	TOP OF CONCRETE	T/ CONC, TOC	GROUND SNOW LOAD (P_g) = 0 PSF	
FIBERGLASS REINFORCED PLASTIC	FRP	TOP OF PLATE	T/ PL	IMPORTANCE FACTOR (I_s) = 1.1	
GALVANIZED	GALV	TOP OF STEEL	T/ STL	EXPOSURE FACTOR (C_e) = 0.8	
GAUGE	GA	TREAD	TR	THERMAL FACTOR (C_t) = 1.1	
GRATING	GRTG	TYPICAL	TYP	EXPOSURE CATEGORY D	
HIGH	H	UNLESS OTHERWISE NOTED	UON	SLOPE FACTOR (C_s) = 1.0	
HIGH POINT	HP	WELDED WIRE FABRIC	WWF		
HIGH STRENGTH	HS	WIDE	W	SEISMIC LOADS	
HORIZONTAL	HOR	WITH	W/		
HOT DIPPED GALVANIZED	HDG	WITHOUT	W/O	EQUIVALENT LATERAL FORCE ANALYSIS	
INSIDE DIAMETER	ID	WOOD	WD	IMPORTANCE FACTOR (I_e) = 1.25	
INSIDE FACE	IF			SITE CLASSIFICATION E	
INSULATION	INSUL			SEISMIC DESIGN CATEGORY C	
LOAD AND RESISTANCE FACTOR DESIGN	LRFD			MAPPED SPECTRAL RESPONSE ACCELERATION @ 0.2s (S_S) = 0.086	
JOINT	JT			MAPPED SPECTRAL RESPONSE ACCELERATION @ 1.0s (S_1) = 0.053	
LONG LEG VERTICAL	LLV			DESIGN SPECTRAL RESPONSE ACCELERATION @ 0.2s (S_{DS}) = 0.138	
LOW POINT	LP			DESIGN SPECTRAL RESPONSE ACCELERATION @ 1.0s (S_{D1}) = 0.149	
MANUFACTURER	MFR				
MATCHING	MATCH			NORTH RAS ELECTRICAL ROOM	
MAXIMUM	MAX			Rw = 3.5 (INTERMEDIATE MASONRY SHEAR WALLS)	
MECHANICAL	MECH			SEISMIC RESPONSE COEFFICIENT (Cs) = 0.049	
MINIMUM	MIN			BASE SHEAR (V) = 8.7 KIPS	
MODULAR OPENING	MO				
MOUNTED	MTD			ICE LOADS	
NOT APPLICABLE	N/A				
				EQUIVALENT RADIAL ICE THICKNESS (t) = 0.25 INCH	
				3 SECOND WIND GUST SPEED (V_i) = 30 MPH	
				TOPOGRAPHIC FACTOR (K_{zt}) = 1.1	
				ICE IMPORTANCE FACTOR (I_i) = 1.15	
				WIND IMPORTANCE FACTOR (I_w) = 1.00	
				FLOOR LIVE LOADS	
				AS INDICATED ON THE DRAWINGS	
				ROOF LIVE LOADS	
				AS INDICATED ON THE DRAWINGS	



COMPONENTS AND CLADDING PRESSURE DIAGRAMS

NTS

GABLE ROOFS 7° <θ≤45°

COMPONENT	ZONE	Eff. AREA (ft^2)	Pres (+ve) (PSF)	Pres (-ve) (PSF)
< = 10 sf	1	10.0	58.7	-53.2
100 sf	1	100.0	58.7	-53.2
> 500 sf	1	500.0	58.7	-53.2
< = 10 sf	2	10.0	90.6	-82.4
100 sf	2	100.0	58.7	-53.2
> 500 sf	2	500.0	58.7	-53.2
< = 10 sf	3	10.0	117.3	-106.5
100 sf	3	100.0	58.7	-53.2
> 500 sf	3	500.0	58.7	-53.2

NOTES:
1. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE PROJECTED SURFACES, RESPECTIVELY.
2. a = 4 ft
3. PRESSURES ARE BASED-ON ULTIMATE WIND SPEED INDICATED IN STRUCTURAL DESIGN CRITERIA.

FLAT/HIP/GABLE/MANSARD ROOF: θ ≤ 7 DEGREES; h ≤ 60 FT

COMPONENT	ZONE	Eff. AREA (ft^2)	Pres (+ve) (PSF)	Pres (-ve) (PSF)
< = 10 sf	1	10.0	27.5	-107.9
100 sf	1	100.0	21.8	-84.2
> 500 sf	1	500.0	21.8	-67.7
< = 10 sf	2	10.0	27.5	-142.3
100 sf	2	100.0	21.8	-111.9
> 500 sf	2	500.0	21.8	-90.7
< = 10 sf	3	10.0	27.5	-193.9
100 sf	3	100.0	21.8	-133.1
> 500 sf	3	500.0	21.8	-90.7
< = 10 sf	4	10.0	62.0	-67.1
100 sf	4	100.0	52.8	-58.0
> 500 sf	4	500.0	46.5	-51.6
< = 10 sf	5	10.0	62.0	-82.6
100 sf	5	100.0	52.8	-64.4
> 500 sf	5	500.0	46.5	-51.6

NOTES:
1. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE PROJECTED SURFACES, RESPECTIVELY.
2. PRESSURES ARE BASED ON ULTIMATE WIND SPEED INDICATED IN STRUCTURAL DESIGN CRITERIA.

LEGEND

PLAN
- EXISTING STRUCTURE
- EXISTING STRUCTURE TO BE DEMOLISHED
- STRUCTURE
- GUARD
- CONCRETE CURB
- GRATING
- HIDDEN OBJECT
- FLOOR PLATE
- METAL DECK
- CONSTRUCTION JOINT
- CONTROL JOINT
- OPENING
- CONCRETE MASONRY UNIT (CMU) WALL

SECTION
- EXISTING CAST-IN-PLACE CONCRETE
- CAST-IN-PLACE CONCRETE
- STRUCTURAL STEEL
- STRUCTURAL ALUMINUM
- CONCRETE MASONRY
- PRECAST CONCRETE
- CONCRETE FILL/ SAND
- FINISH GRADE
- FILL OR STONE
- GRATING
- LUMBER
- RIGID INSULATION

TEXT
- *CONCRETE WALL* EXISTING STRUCTURE
- CONCRETE WALL PROPOSED WORK
- 1" DIMENSION OF EXISTING STRUCTURE
- 1" DIMENSION OF PROPOSED STRUCTURE

SYMBOLS
- CONCRETE EQUIPMENT PAD
- PIPE
- PRV PRESSURE RELIEF VALVE
- FD FLOOR DRAIN
- RD ROOF DRAIN
- # LIFT HOOK (# = CAPACITY IN TONS)
- A CONCRETE FILL ELEVATIONS
- A CONCRETE FOOTING TYPE
- # CONCRETE PILASTER TYPE
- # STRUCTURAL STEEL PIPE SUPPORT FRAME TYPE
- A PIPE GUIDE TYPE
- EL 12.83' LIQUID ELEVATION

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA — ROBERT A. CYR — License No. 46829 — PROFESSIONAL ENGINEER
4/25/2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163	DESIGNED BY: J.KELLOGG
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

STRUCTURAL NOTES II, LEGEND AND ABBREVIATIONS

DR. A.NESBIT	
TRC. -	
CK. J.KELLOGG	
AP. R.CYR	
SCALE: AS NOTED	
DATE: APRIL 2025	SET NO.

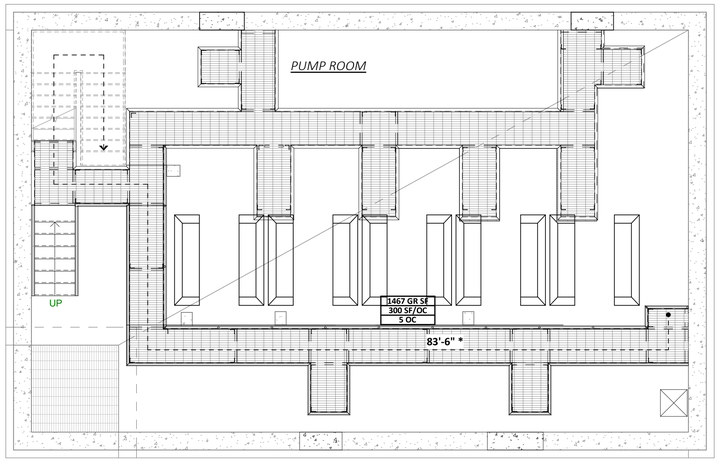
S-00-002

DWG. No. 12221-W-33

SHEET NO. 22 of 92

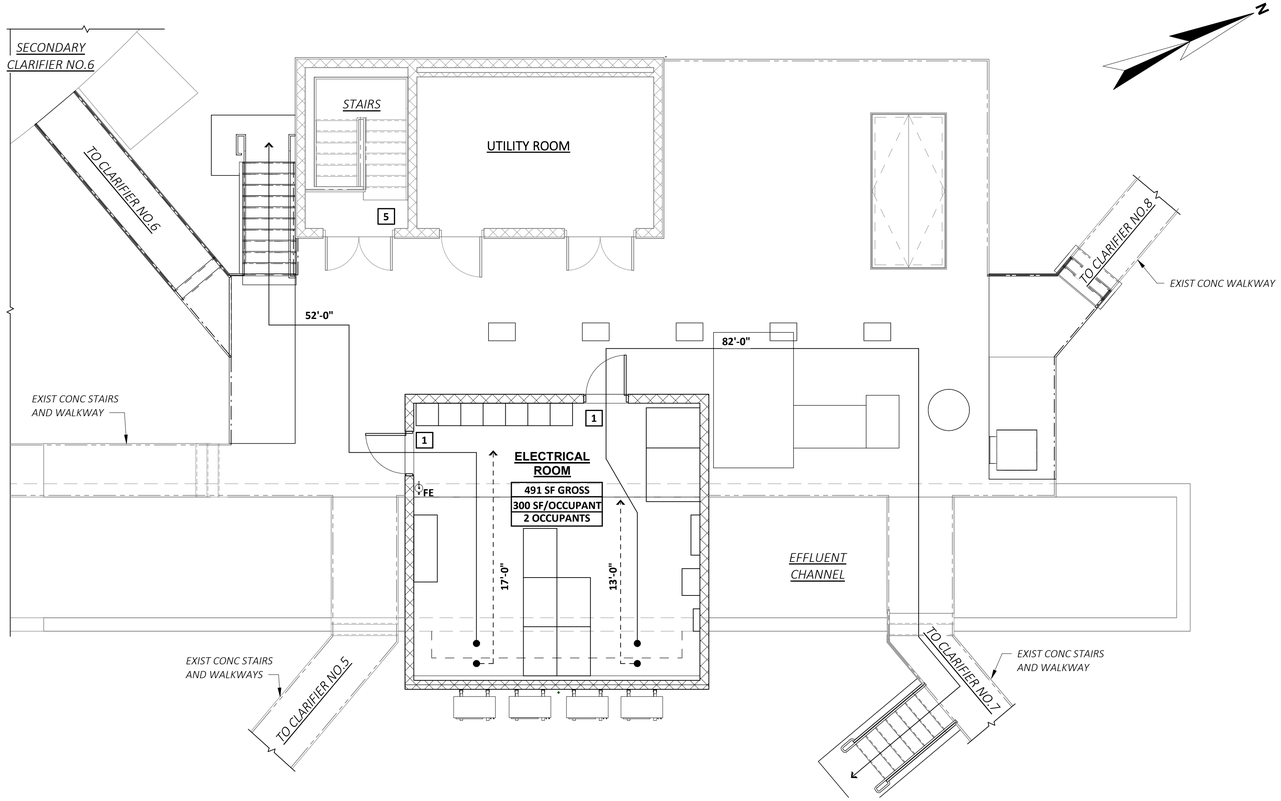
Autodesk Docs://1A-NewOrleans-21163-EastBank-STP-Phase/21163-SM-NotesandDetails.rvt

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LOWER LEVEL EGRESS PLAN

SCALE: 3/16" = 1'-0"



FIRST FLOOR EGRESS PLAN

SCALE: 3/16" = 1'-0"

CODE NOTES - GENERAL

APPLICABLE CODES:

2021 LOUISIANA STATE UNIFORM CONSTRUCTION CODES
- 2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC) AS AMENDED
- 2021 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED
- 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) AS AMENDED

LOUISIANA STATE FIRE CODE
- 2015 NFPA 101 LIFE SAFETY CODE

NORTH RAS PUMP STATION - CODE NOTES

DESCRIPTION OF WORK:

THE LOWER LEVEL OF THE RAS PUMP STATION WILL CONSIST OF REPLACEMENT IN KIND. AN ADDITION TO HOUSE NEW ELECTRICAL EQUIPMENT WILL BE CONSTRUCTED OVER THE EXISTING EFFLUENT CHANNEL. THE NEW ELECTRICAL BUILDING WILL HOUSE VFDS, MCC'S, THE BUILDING WILL BE MASONRY WALLS WITH A STEEL FRAME ROOF. WORK ON THE FIRST FLOOR WILL BE CLASSIFIED AS A LEVEL 2 ALTERATION WITH AN ADDITION.

OCCUPANCY CLASSIFICATION:

THE BUILDING WILL BE CLASSIFIED AS FACTORY INDUSTRIAL (F-1)

CONSTRUCTION TYPE:

TYPE IIB (IBC 602.2) BUILDING ELEMENTS LISTED IN TABLE 601 ARE OF NON-COMBUSTIBLE MATERIALS WITH A 0-HOUR RATING.

AUTOMATIC SPRINKLER SYSTEMS:

AUTOMATIC SPRINKLER SYSTEMS ARE NOT REQUIRED (IBC SECTION 903)

STAIRWAYS (EXISTING STAIRS NFPA 7.2.2.2.1.1(B))
- WIDTH - 36 in
- MAX RISER HEIGHT 8 in
- MIN TREAD DEPTH 9 in
- MIN HEADROOM - 6' - 8"
- MAX HEIGHT BETWEEN RISERS 12 ft

EGRESS LEGEND

FE	FIRE EXTINGUISHER
●----------→	COMMON PATH OF TRAVEL
●——————→	MAXIMUM PATH OF TRAVEL
0 SF GROSS 300 SF/OCCUPANT 1 OCCUPANTS	GROSS SF OCCUPANTS PER GROSS SF OCCUPANT LOAD
1	CUMULATIVE OCCUPANT LOAD
*	ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF PROTECTION PROVIDED FOR THE MEANS OF EGRESS (IECC 704.1) NO INCREASE IN THE EXISTING COMMON PATH OF TRAVEL

EGRESS CODE NOTES

MAXIMUM COMMON PATH OF TRAVEL

75' (IBC TABLE 1006.2.1)
50' (NFPA 101 TABLE 40.2.5.1 & TABLE 42.2.5)

MAXIMUM TRAVEL DISTANCE

200' (IBC TABLE 1017.2)
200' (NFPA 101 38.2.6.2 & TABLE 42.2.6)

ONE MEANS OF EGRESS

ALLOWED IF EXIT CAN BE REACHED WITHIN THE COMMON PATH OF TRAVEL (IBC 1066.2.1 & NFPA 101 38.2.4.2, 40.2.4.1.2 & 42.2.4.1(2)).

FIRE EXTINGUISHERS

LOCATE WHERE SHOWN ON PLAN AND INSTALL IN ACCORDANCE WITH NFPA 10 AND IBC 906.

NOTES:

1. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S-00-001 AND S-00-002. FOR TYPICAL STRUCTURAL DETAILS, SEE DRAWINGS S-99-501 THROUGH S-99-507.

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA — ROBERT A. CYR — License No. 46829 — PROFESSIONAL ENGINEER
4/25/2025

WRIGHT-PIERCE
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PROJECT NO: 21163	DESIGNED BY: J.KELLOGG	DR. A.NESBIT	
SUBMISSION: CONTRACT DRAWINGS		TRC. -	
CAD COORD: A.COUTURE		CK. J.KELLOGG	
		AP. R.CYR	
		SCALE: AS NOTED	
		DATE: APRIL 2025	

NORTH RAS PUMP STATION CODE NOTES AND PLANS

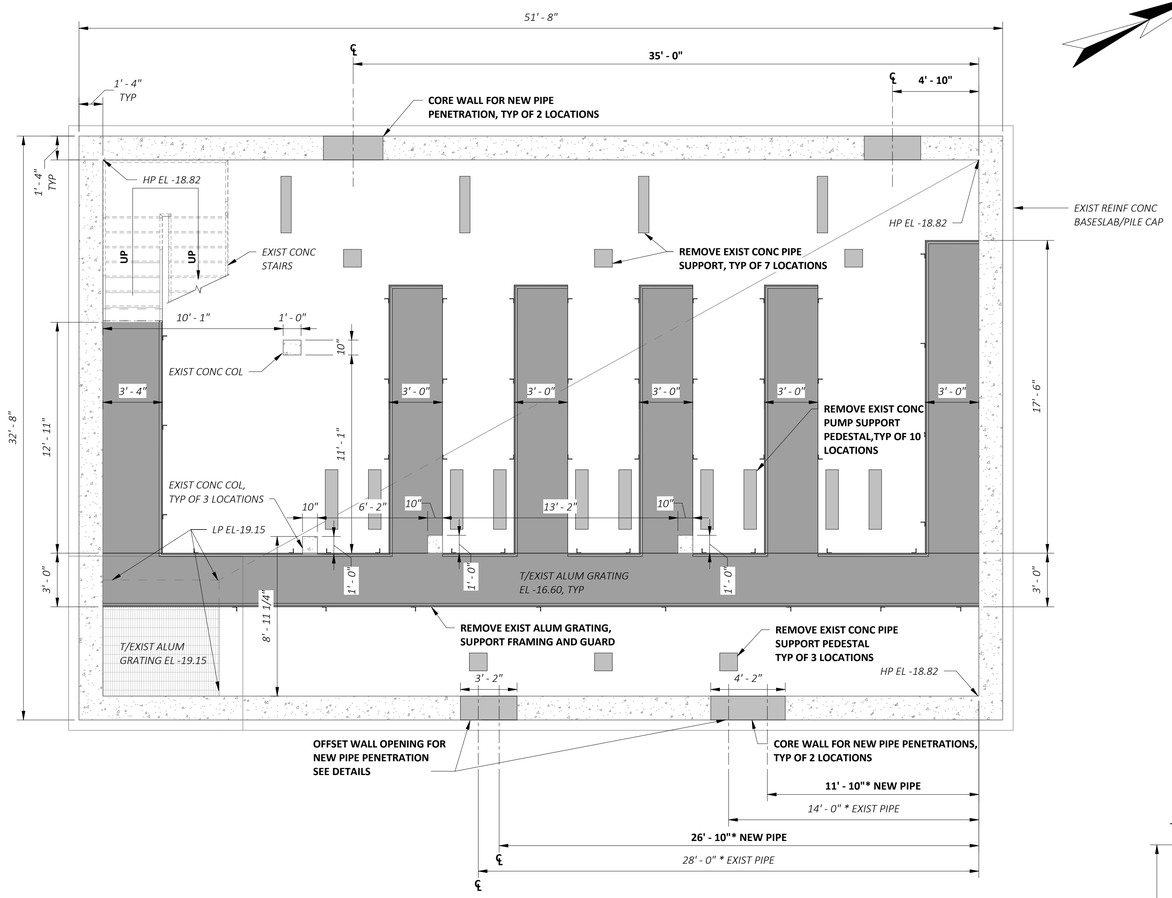
S-52-001

DWG. No. 12221-W-33

SET NO. | SHEET NO. 23 of 92

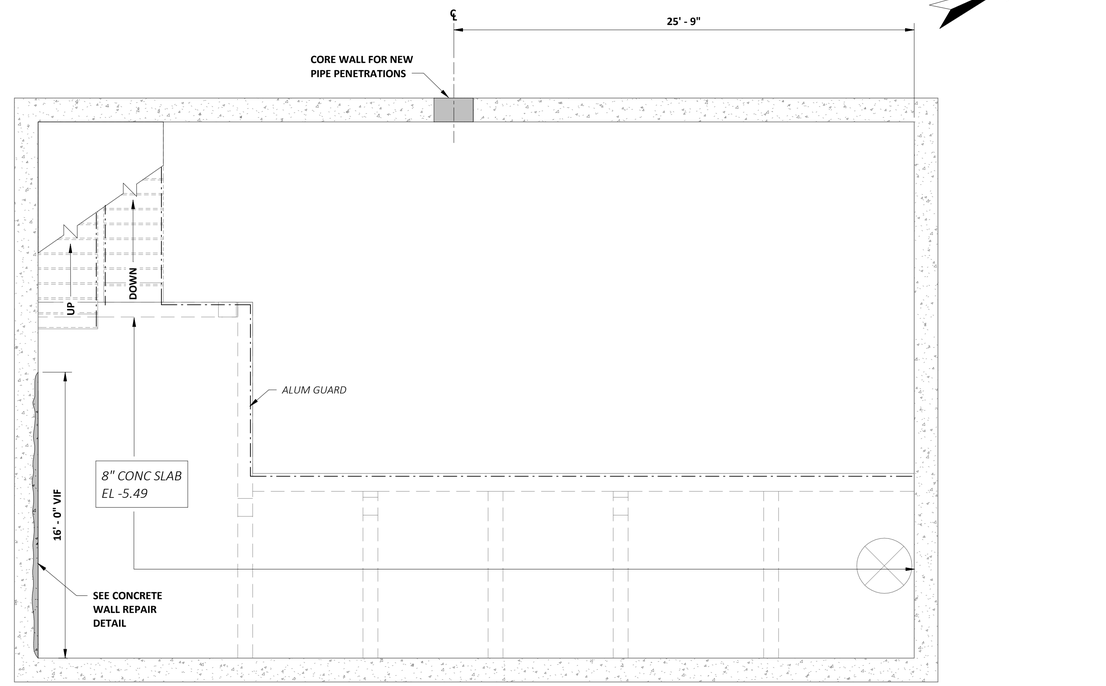
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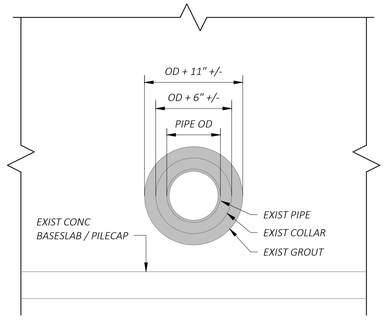
LOWER LEVEL DEMOLITION PLAN

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



MEZZANINE DEMOLITION PLAN

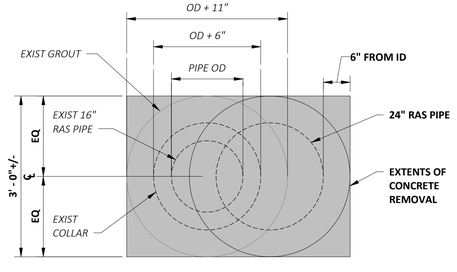
SCALE: 1/4" = 1'-0"



NOTE:
1. MINIMUM AREA INDICATED TO REMOVE EXISTING PIPE. COORDINATE AREA WITH REQUIRED OPENING FOR NEW PIPE.

TYPICAL WALL OPENING DEMOLITION

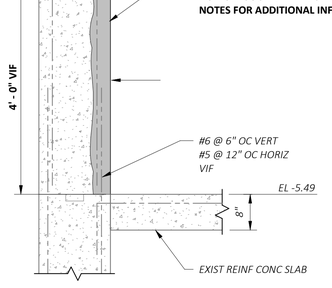
SCALE: 1 1/2" = 1'-0"



NOTES:
1. CONFIRM LIMITS OF DEMOLITION WITH REQUIRED ANNULAR SPACE FOR WALL PENETRATION SEAL.
2. INSTALL WALL OPENING REINFORCEMENT AND ALLOW EPOXY ADHESIVE TO ACHIEVE DESIGN STRENGTH PRIOR TO WALL REMOVAL. SEE TYPICAL REINFORCEMENT AT ROUND OPENING IN STRUCTURAL SLAB/WALL DETAIL FOR ADDITIONAL INFORMATION.

OFFSET WALL OPENING DEMOLITION

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



REPAIR NOTES:
1. PROVIDE A 1/2" DEEP PERIMETER SAWCUT AROUND THE ENTIRE AREA TO BE REPAIRED. ALL SAWCUTS ARE TO BE PERPENDICULAR TO THE SURFACE PLANE OF THE WALL. ALL CUTS SHALL FORM 90 DEGREE INTERSECTIONS. DO NOT CUT THE STEEL REINFORCEMENT.
2. REMOVE ALL DETERIORATED CONCRETE BY USING CHIPPING HAMMERS, BY HAND, OR OTHER MEANS NECESSARY TO REMOVE THE DEFECTED CONCRETE TO SOUND CONCRETE. STOP ALL CONCRETE REMOVAL WHEN SOUND OR SOLID CONCRETE IS UNCOVERED.
3. REMOVE ALL CONCRETE 1" BEYOND ALL EXPOSED REINFORCEMENT. IF CORROSION IS OBSERVED ON THE STEEL REINFORCEMENT, REMOVE ALL CONCRETE TO 1" BEYOND THE CORRODED PORTIONS OF THE STEEL. USE CAUTION NOT TO DAMAGE THE REINFORCEMENT THAT WILL REMAIN.
4. SAND BLAST ALL STEEL SURFACES AND CLEAN ALL CONCRETE SURFACES IN THE REPAIR AREA IN ACCORDANCE TO SPECIFICATIONS 03010 & 03930. IF THE STEEL REINFORCEMENT HAS MORE THAN 25% OF SECTION LOSS AFTER SANDBLASTING, CONTACT THE STRUCTURAL ENGINEER TO CONDUCT A VISUAL ASSESSMENT AND FOR SPLICING REQUIREMENTS AND DETAILS.
5. COAT ALL CONCRETE SURFACES AND STEEL REINFORCEMENT TO RECEIVE PATCHING MORTAR WITH A CONCRETE BONDING AGENT/PRIMER/RUST INHIBITOR SUCH AS SIKA ARMETEC EPOCEM 110 (OR APPROVED EQUAL). PROVIDE A MINIMUM OF TWO COATS ON THE STEEL REINFORCEMENT.
6. REBUILD WALL WITH TYPE 1 PATCHING MORTAR. REFER TO SPECIFICATIONS 03010 & 03930 FOR ADDITIONAL DETAILS AND RECOMMENDED PATCHING MORTAR MANUFACTURERS. BUILD UP ALL REPAIRS TO BRING THE WALL BACK TO THE ORIGINAL WALL THICKNESS, AND TO MATCH THE SURFACE PLANE TEXTURE OF THE EXISTING CONCRETE WALL. FOR ALL SPALLS GREATER THAN 4" IN DEPTH, ADD PEA GRAVEL (OR 3/8" STONE) TO THE PATCHING MORTAR PER THE MANUFACTURER'S RECOMMENDATIONS. ALL REPAIR MORTAR SHALL BE CURED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

CONCRETE WALL REPAIR DETAIL

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

NOTES:
1. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S-00-001 AND S-00-002. FOR TYPICAL STRUCTURAL DETAILS, SEE DRAWINGS S-99-501 THROUGH S-99-507.
2. REFER TO THE PROCESS, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.

STATE OF LOUISIANA — REGISTERED — RYAN P. CYR — License No. 46829 — PROFESSIONAL ENGINEER
4/25/2025

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PROJECT NO: 21163	DESIGNED BY: J.KELLOGG	AP. R.CYR	
SUBMISSION: CONTRACT DRAWINGS		SCALE: AS NOTED	
CAD COORD: A.COUTURE		DATE: APRIL 2025	SET NO. SHEET NO. 24 of 92

REV.	DATE	DESCRIPTION	BY
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

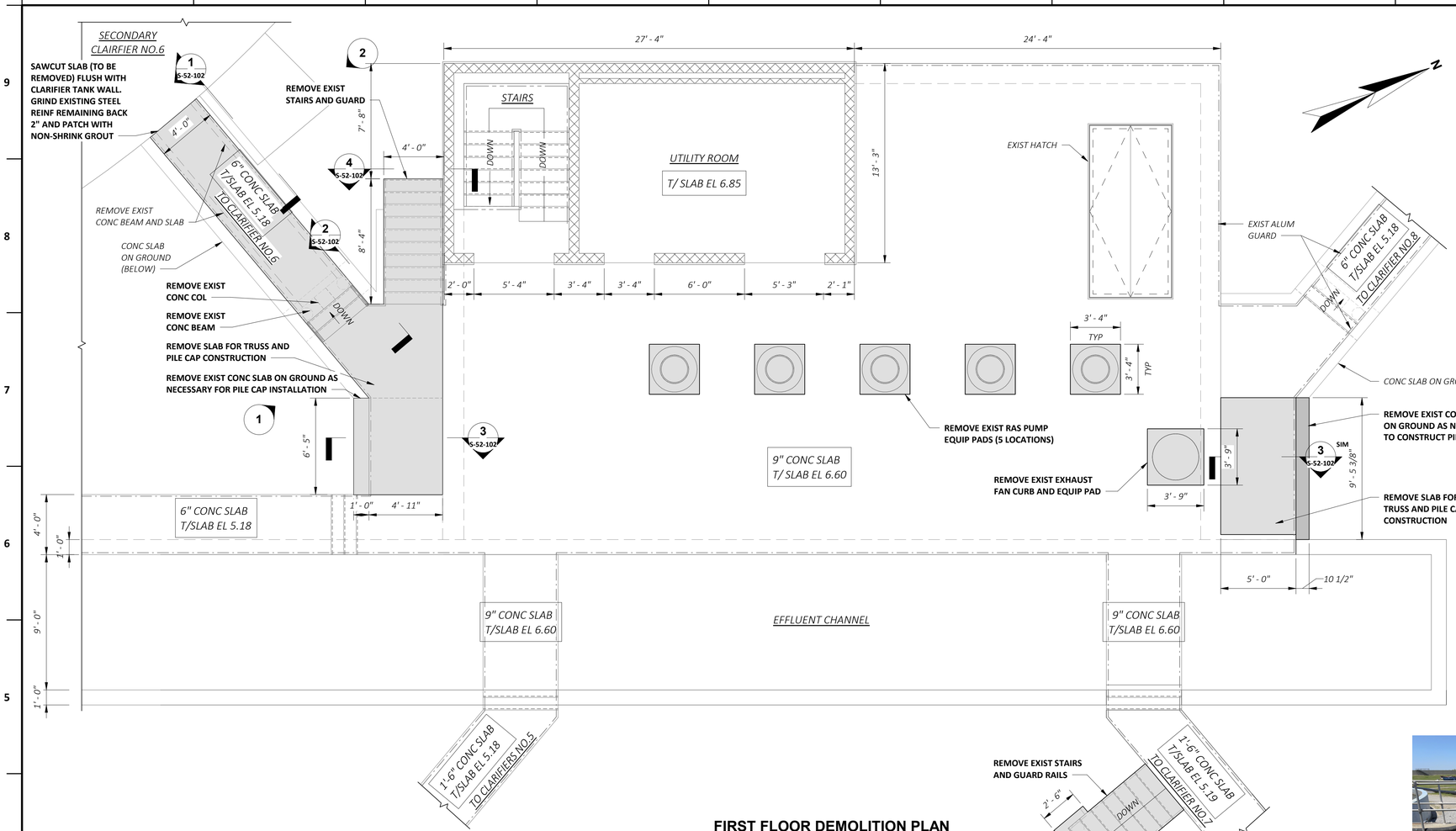
CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

NORTH RAS PUMP STATION
LOWER LEVEL DEMOLITION PLAN

DR. A.NESBIT	**S-52-101**
TRC. -	
CK. J.KELLOGG	**DWG. No. 12221-W-33**

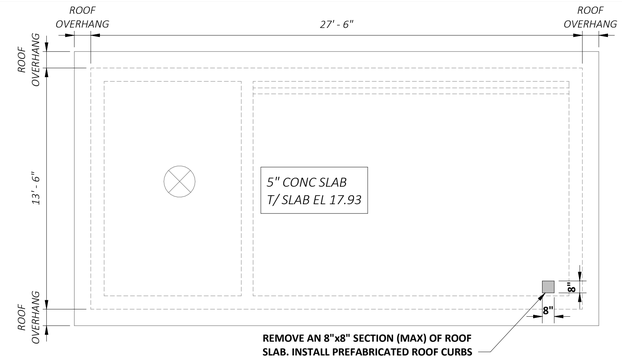
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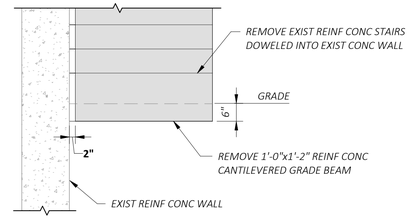
FIRST FLOOR DEMOLITION PLAN

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



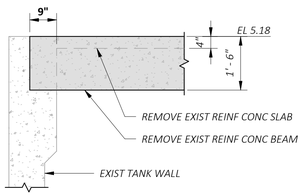
UTILITY ROOM ROOF DEMOLITION PLAN

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



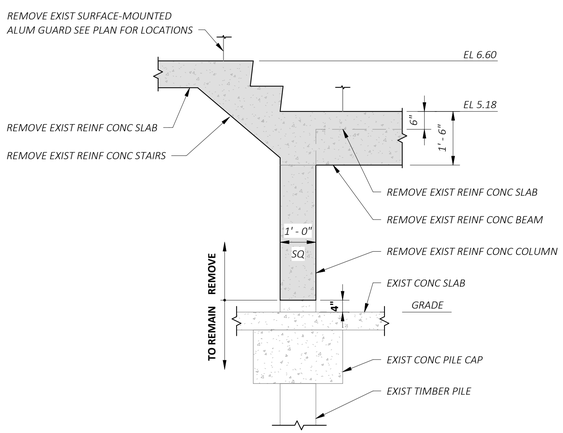
4 S-52-102 SECTION

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



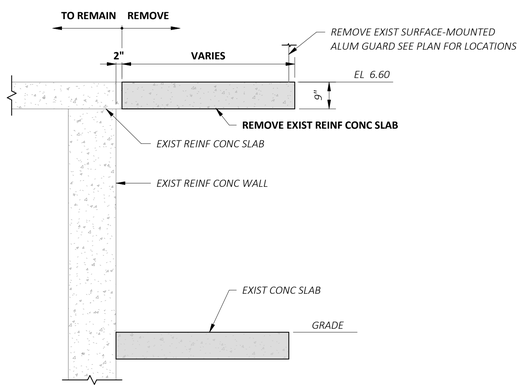
1 S-52-102 SECTION

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



2 S-52-102 SECTION

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



3 S-52-102 SECTION

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



PHOTO 1



PHOTO 2



PHOTO 3

NOTES:

1. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S-00-001 AND S-00-002. FOR TYPICAL STRUCTURAL DETAILS, SEE DRAWINGS S-99-501 THROUGH S-99-507.
2. REFER TO THE PROCESS, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.

REV.	DATE	DESCRIPTION	BY
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

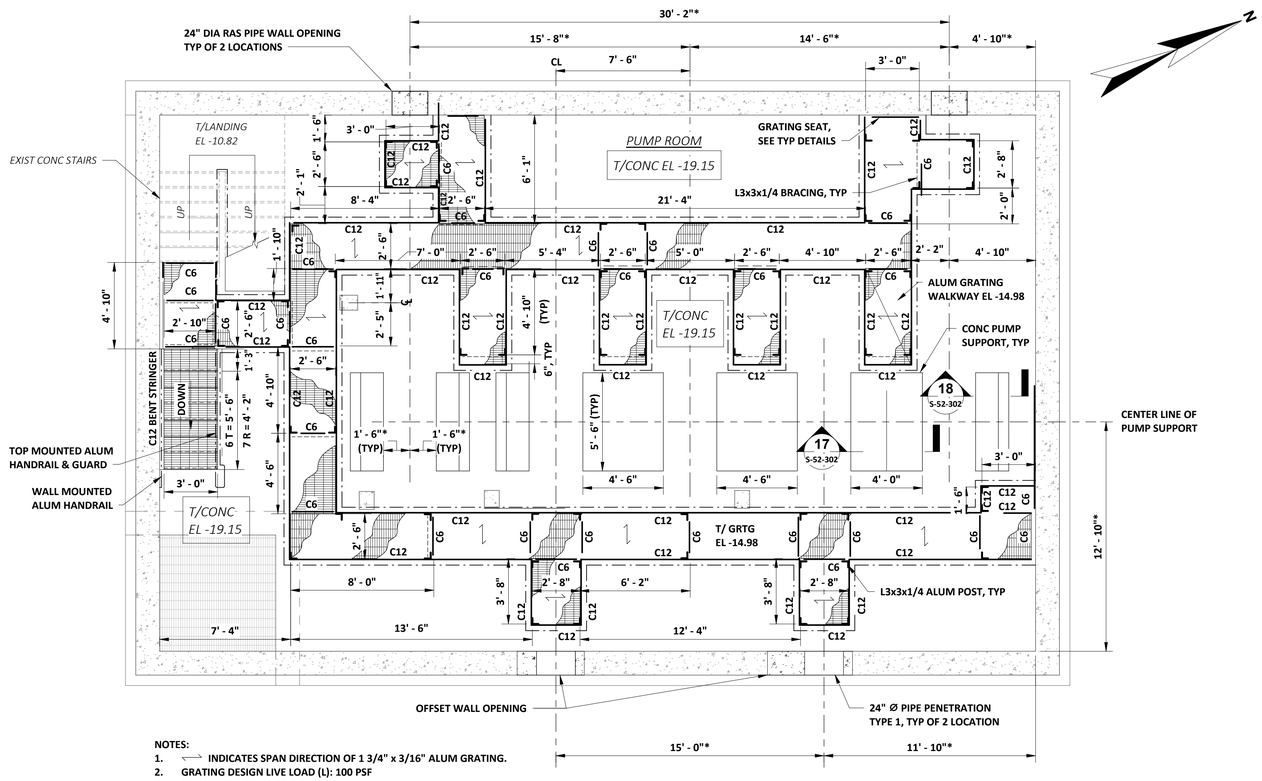
NORTH RAS PUMP STATION TOP DEMOLITION PLAN

STATE OF LOUISIANA — ROBERT R. CYR — License No. 46829 — PROFESSIONAL ENGINEER
4/25/2025

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PROJECT NO: 21163	DESIGNED BY: J.KELLOGG	DR. A.NESBIT	S-52-102
SUBMISSION: CONTRACT DRAWINGS		TRC. -	
CAD COORD: A.COUTURE		CK. J.KELLOGG	DWG. No. 12221-W-33
		AP. R.CYR	
		SCALE: AS NOTED	
		DATE: APRIL 2025	SET NO. SHEET NO. 25 of 92

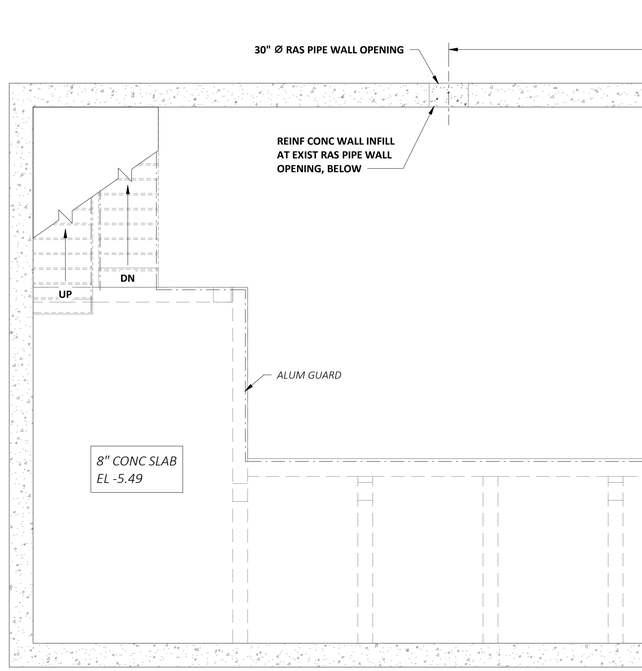
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NOTES:
1. ⟿ INDICATES SPAN DIRECTION OF 1 3/4" x 3/16" ALUM GRATING.
2. GRATING DESIGN LIVE LOAD (L): 100 PSF
3. C6 DENOTES ALUM C6x4.5
   C12 DENOTES ALUM C12x8.64

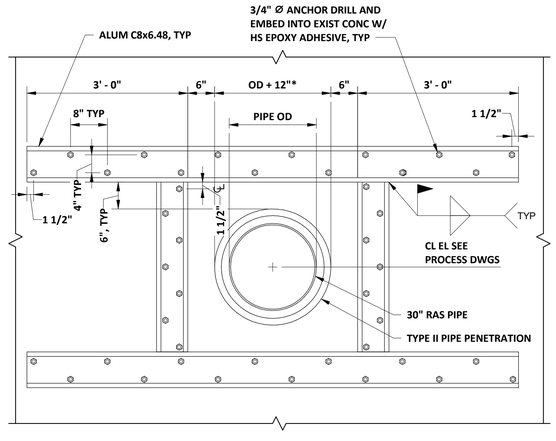
MODIFICATION PLAN @ EL -19.07

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



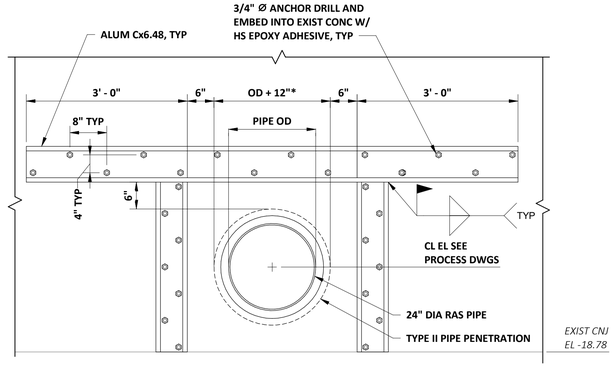
MEZZANINE MODIFICATION PLAN

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



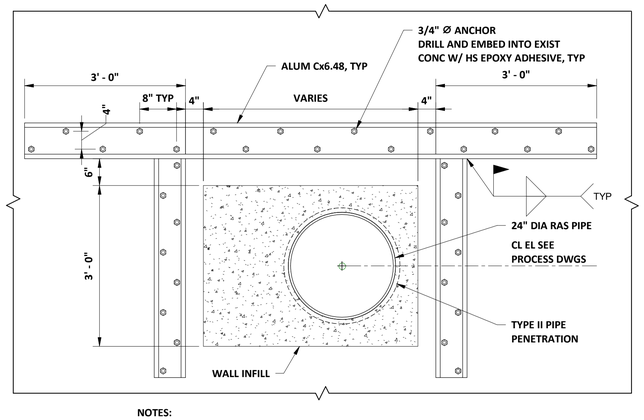
30" RAS PIPE WALL OPENING REINFORCING

SCALE: NTS



24" RAS PIPE WALL OPENING REINFORCING

SCALE: NTS



NOTES:
1. TERMINATE SURFACE APPLIED WATERSTOP FOR WALL INFILL TIGHT WITH NEW WALL PENETRATION.
2. ALLOW WALL INFILL CONCRETE TO ACHIEVE 75% DESIGN STRENGTH PRIOR TO INSTALLING 24" DIA RAS PIPE.

OFFSET WALL OPENING MODIFICATION

SCALE: NTS

NOTES:
1. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S-00-001 AND S-00-002. FOR TYPICAL STRUCTURAL DETAILS, SEE DRAWINGS S-99-501 THROUGH S-99-507.
2. REFER TO CIVIL AND PROCESS DRAWINGS FOR ADDITIONAL INFORMATION ON THE RAS PIPE INSTALLATION WORK.
3. CONCRETE SURFACE REPAIR WILL BE REQUIRED AT LOCATIONS INDICATED ON THE DRAWINGS AND OTHER AREAS IDENTIFIED BY THE ENGINEER DURING CONSTRUCTION. THESE REPAIRS WILL BE COVERED IN THE BID FORM AND IN SPECIFICATION SECTION 01150 "MEASUREMENT AND PAYMENT" (APPROX 100 SF).
4. CONCRETE CRACK REPAIRS WILL BE REQUIRED AT LOCATIONS INDICATED ON THE DRAWINGS AND OTHER AREAS IDENTIFIED BY THE ENGINEER DURING CONSTRUCTION (APPROX 25 LF).

STATE OF LOUISIANA — REGISTERED PROFESSIONAL ENGINEER — R. CYR — License No. 46829
4/25/2025

REV.	DATE	DESCRIPTION	BY
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

NORTH RAS PUMP STATION FOUNDATION MODIFICATION PLAN

WRIGHT-PIERCE
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DR. A.NESBIT	
TRC. -	
CK. J.KELLOGG	
AP. R.CYR	
PROJECT NO: 21163	DESIGNED BY: J.KELLOGG
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025

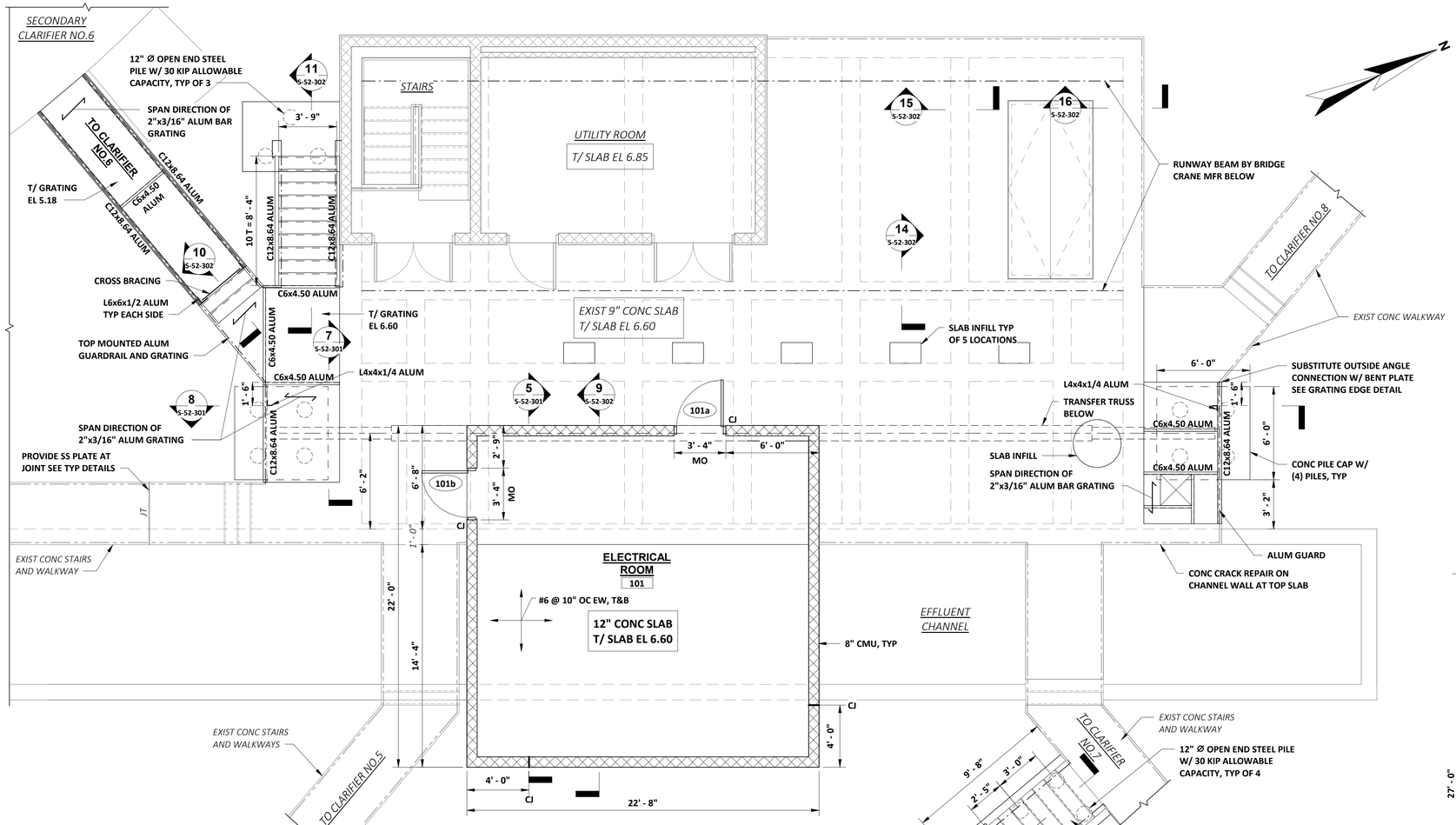
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DWG. No. 12221-W-33

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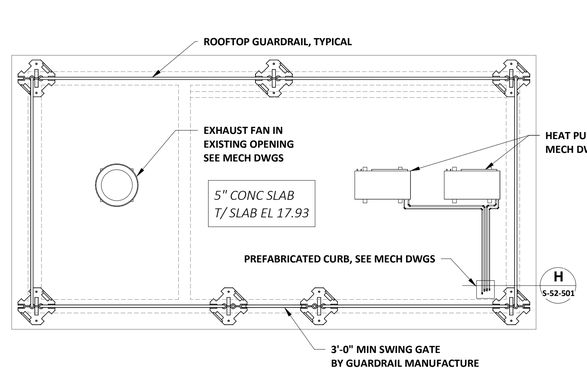
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FIRST FLOOR MODIFICATION PLAN

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



UTILITY ROOM ROOF MODIFICATION PLAN

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

ELECTRICAL ROOM ROOF FRAMING PLAN

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

PILE PLAN

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

NOTES:

1. ALL PILES THIS SHEET ARE 12" Ø OPEN END STEEL PIPE PILES W/ 50 KIP ALLOWABLE CAPACITY, UNO.
2. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S-00-001 AND S-00-002. FOR TYPICAL STRUCTURAL DETAILS, SEE DRAWINGS S-99-501 THROUGH S-99-507.
3. FLOOR PLATE DESIGN LIVE LOAD (L) = 100 PSF
4. LOCATE EXISTING TIMBER PILES AS APPROPRIATE
5. CONCRETE SURFACE REPAIR WILL BE REQUIRED AT LOCATIONS INDICATED ON THE DRAWINGS AND OTHER AREAS IDENTIFIED BY THE ENGINEER DURING CONSTRUCTION. THESE REPAIRS WILL BE COVERED IN THE BID FORM AND IN SPECIFICATION SECTION 01150 "MEASUREMENT AND PAYMENT" (APPROX 100 SF).
6. CONCRETE CRACK REPAIRS WILL BE REQUIRED AT LOCATIONS INDICATED ON THE DRAWINGS AND OTHER AREAS INDENTIFIED BY THE ENGINEER DURING CONSTRUCTION (APPROX 25 LF).

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

NORTH RAS PUMP STATION
TOP, ROOF AND PILE MODIFICATION PLANS

STATE OF LOUISIANA — RYAN CYR — License No. 46829 — PROFESSIONAL ENGINEER
4/25/2025

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SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	
DR. A.NESBIT	
TRC. -	
CK. J.KELLOGG	
AP. R.CYR	
SCALE: AS NOTED	
DATE: APRIL 2025	

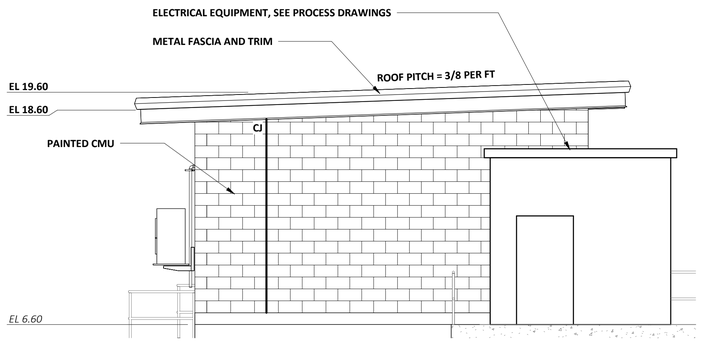
S-52-104

DWG. No. 12221-W-33

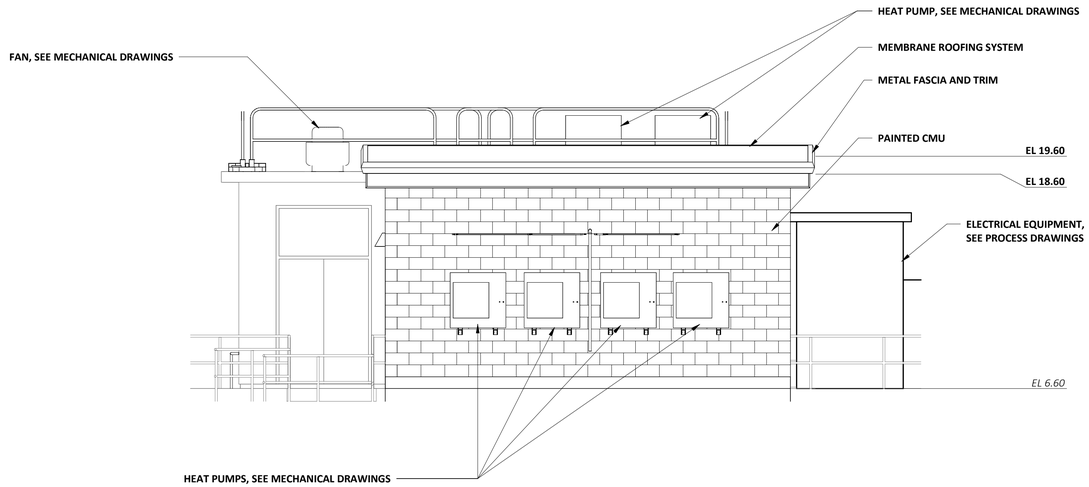
SET NO. — SHEET NO. 27 of 92

Autodesk Docs://JA-NewOrleans-21163-EastBank STP-Phase1/21163-SM-RAS-PS-North.rvt

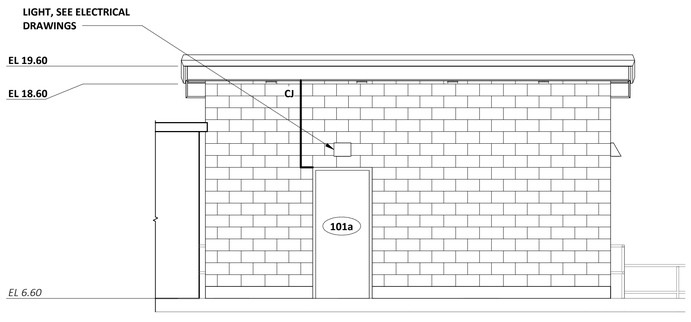
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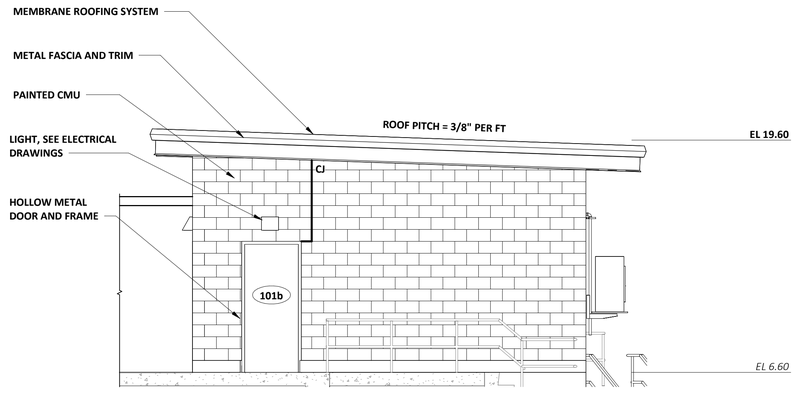
NORTH
SCALE: 1/4" = 1'-0"



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



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



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

NOTES:
1. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S-00-001 AND S-00-002. FOR TYPICAL STRUCTURAL DETAILS, SEE DRAWINGS S-99-501 THROUGH S-99-507.

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA — ROBERT J. CYR — License No. 46829 — PROFESSIONAL ENGINEER
4/25/2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

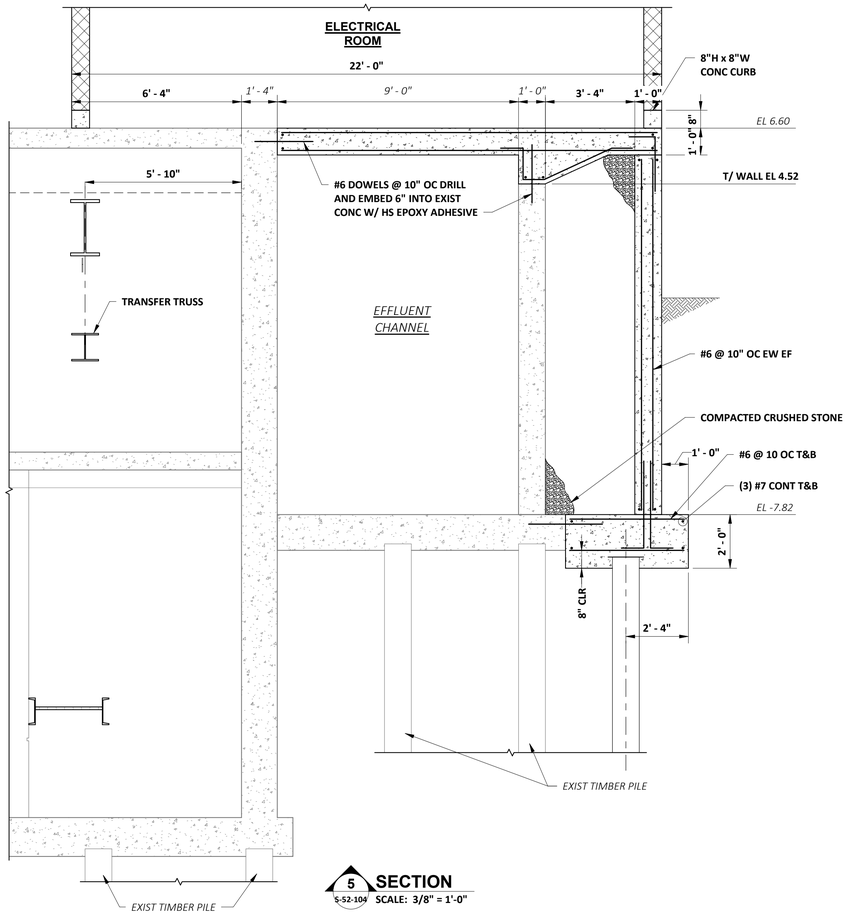
NORTH RAS PUMP STATION
EXTERIOR ELEVATIONS

PROJECT NO: 21163	DESIGNED BY: J.KELLOGG
SUBMISSION: CONTRACT DRAWINGS	AP. R.CYR
CAD COORD: A.COUTURE	SCALE: AS NOTED
DR. A.NESBIT	DATE: APRIL 2025
TRC. -	SET NO.
CK. J.KELLOGG	SHEET NO. 28 of 92

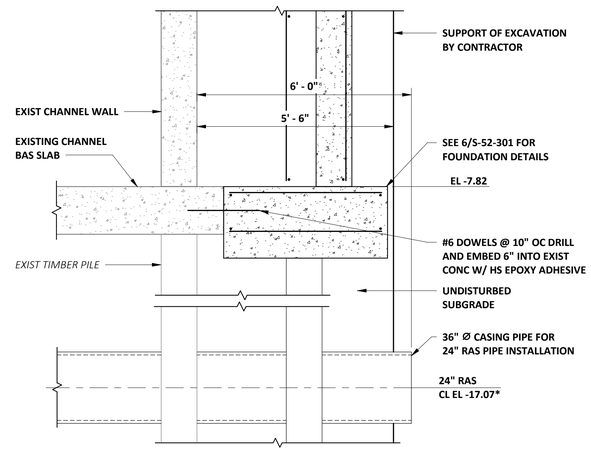
S-52-201

DWG. No. 12221-W-33

Autodesk Docs://1A-NewOrleans-21163-EastBank-STP-Phase/21163-SM-RAS-PS-North.rvt

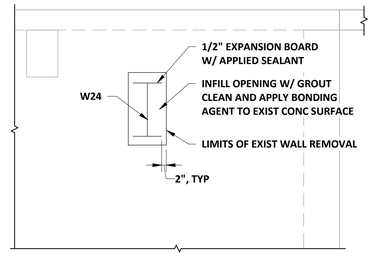


5 SECTION
S-52-104 SCALE: 3/8" = 1'-0"

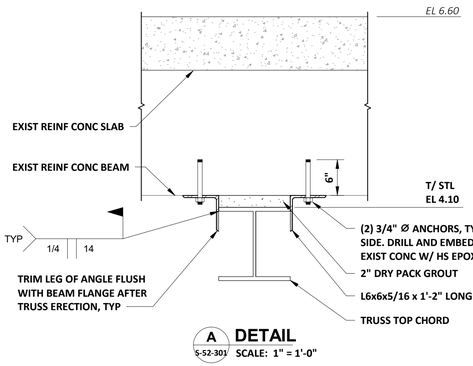


NOTES:
1. CONFIRM LOCATION OF EXISTING TIMBER PILES PRIOR TO INSTALLING CASING PIPE. DO NOT DISTURB EXISTING PILES.
2. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

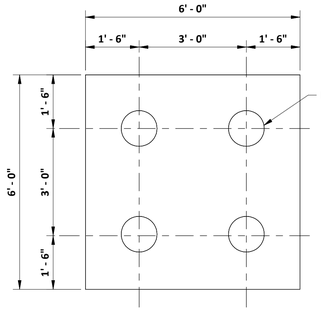
6 SECTION
S-52-104 SCALE: 1/2" = 1'-0"



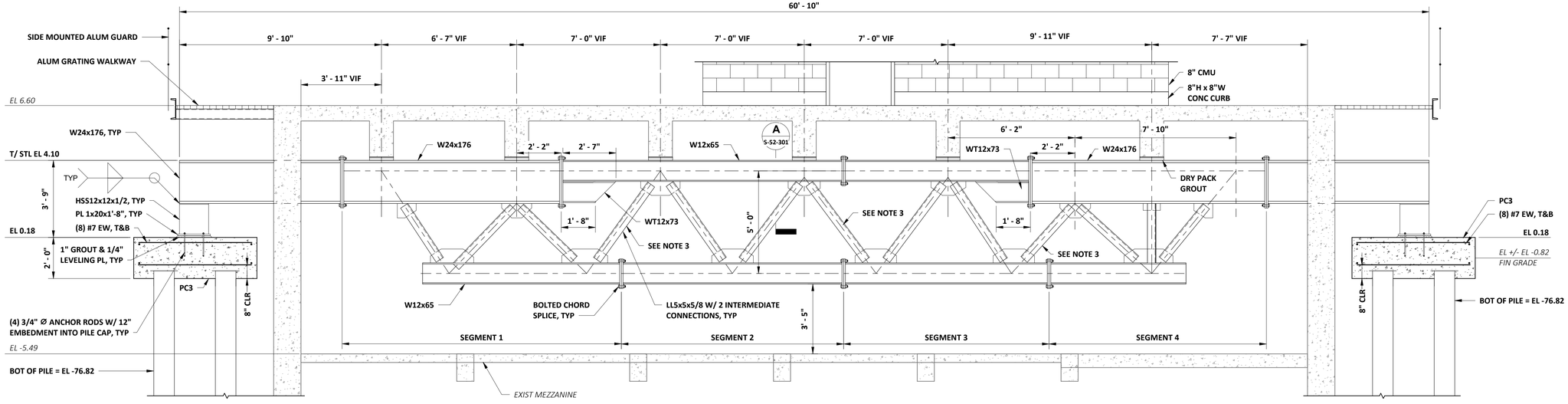
7 SECTION
S-52-109 SCALE: 3/8" = 1'-0"



A S-52-301 DETAIL
SCALE: 1" = 1'-0"



PC3 DETAIL
SCALE: 1/2" = 1'-0"



8 SECTION
S-52-104 SCALE: 3/8" = 1'-0"

NOTES:
1. FABRICATE TRUSS IN SEGMENTS AS INDICATED.
2. CONTRACTOR TO CONFIRM TRUSS SEGMENTS CAN BE LOWERED INTO PUMP STATION AND ERECTED WITHOUT REMOVAL OF THE EXISTING STRUCTURE BEYOND WHAT IS INDICATED ON THESE DRAWINGS.
3. STEEL FABRICATOR TO PROVIDE LOOSE WEB MEMBERS AND BOLTS WHERE INDICATED TO BE INSTALLED DURING TRUSS ERECTION.
4. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S-00-001 AND S-00-002. FOR TYPICAL STRUCTURAL DETAILS, SEE DRAWINGS S-99-501 THROUGH S-99-507.
5. ALL PILES THIS SHEET ARE 12 Ø OPEN END STEEL PIPE PILES W/ 50 KIP ALLOWABLE CAPACITY.

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

NORTH RAS PUMP STATION
SECTIONS I

STATE OF LOUISIANA
KRISTEN CYR
License No. 36829
PROFESSIONAL ENGINEER
4/25/2025

WRIGHT-PIERCE
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601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163	DESIGNED BY: J.KELLOGG
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

DR. A.NESBIT	
TRC. -	
CK. J.KELLOGG	
AP. R.CYR	
SCALE: AS NOTED	
DATE: APRIL 2025	

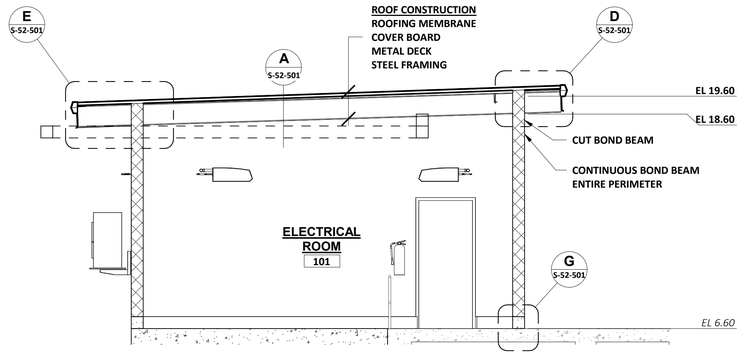
S-52-301

DWG. No. 12221-W-33

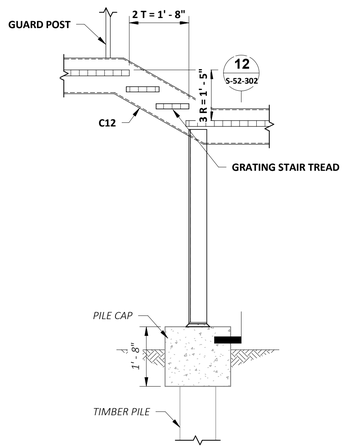
SET NO. | SHEET NO. 29 of 92

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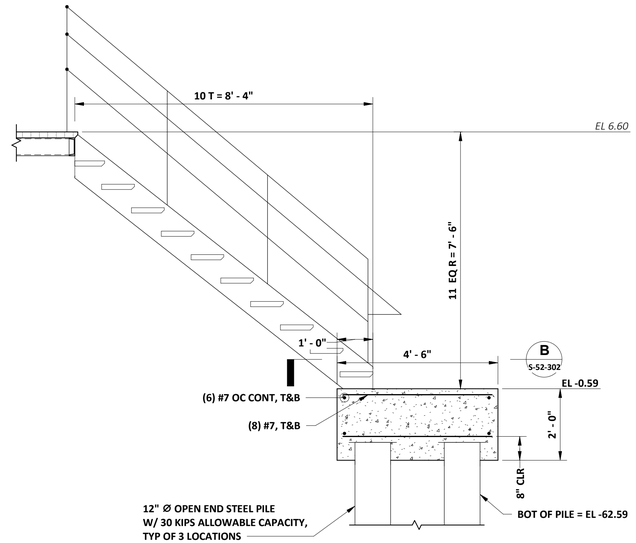


9 SECTION S-52-104 SCALE: 1/4" = 1'-0"

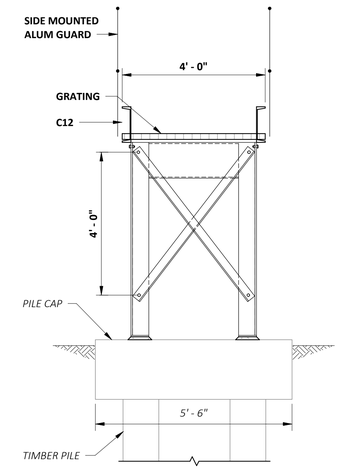


NOTE: REFER TO BASE OF STAIR TO DETAIL LANDING FOR ELEMENTS NOT SHOWN

10 SECTION S-52-104 SCALE: 1/2" = 1'-0"

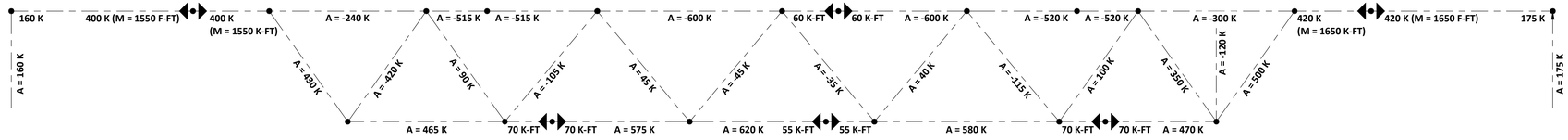


11 SECTION S-52-104 SCALE: 1/2" = 1'-0"

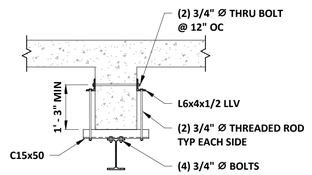


NOTE: REFER TO BASE OF STAIR TO LANDING DETAIL FOR ELEMENTS NOT SHOWN.

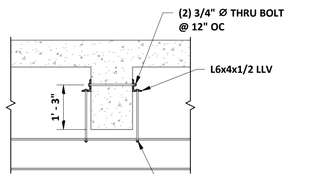
12 SECTION S-52-302 SCALE: 1/2" = 1'-0"



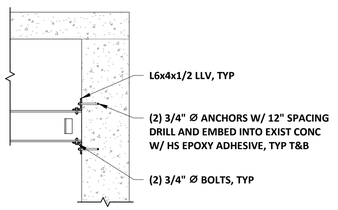
TRANSFER TRUSS LOAD DIAGRAM



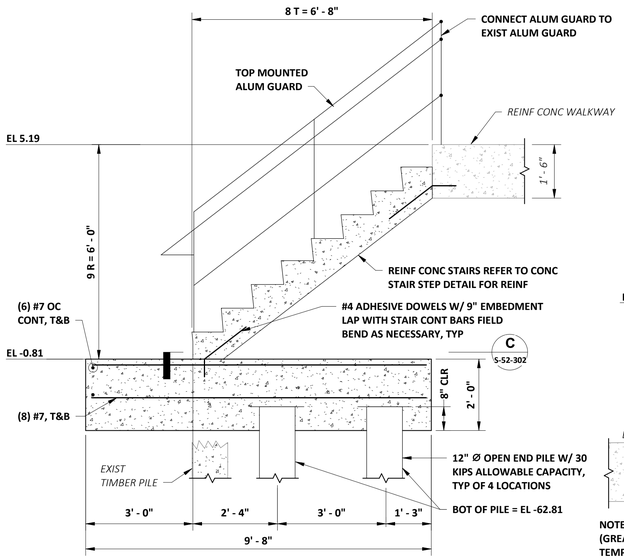
14 SECTION S-52-104 SCALE: 1/2" = 1'-0"



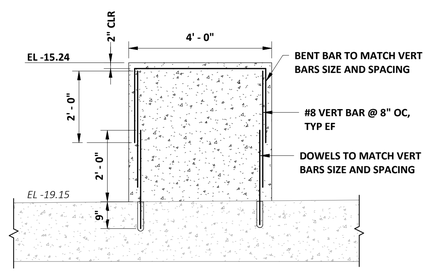
15 SECTION S-52-104 SCALE: 1/2" = 1'-0"



16 SECTION S-52-104 SCALE: 1/2" = 1'-0"

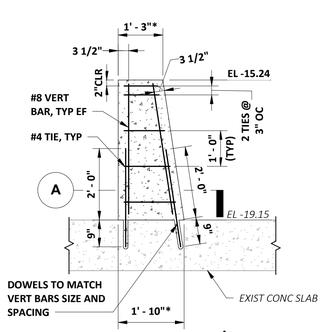


13 SECTION S-52-104 SCALE: 1/2" = 1'-0"

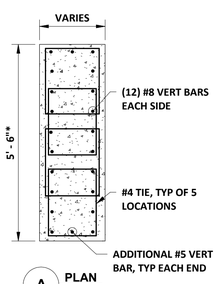


NOTE: CONTRACTOR SHALL REDUCE HEAT GENERATION FOR MASS CONCRETE POURS (GREATER THAN 3 FT IN ALL DIRECTIONS) PER ACI 301 OR BY LIMITING CONCRETE TEMPERATURE AT POINT OF PLACEMENT PER HOT WEATHER CONCRETING PROCEDURES.

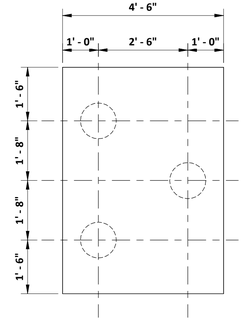
17 SECTION S-52-103 SCALE: 1/2" = 1'-0"



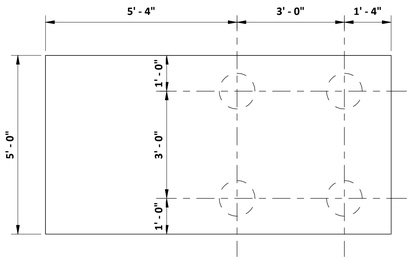
18 SECTION S-52-103 SCALE: 1/2" = 1'-0"



A PLAN



B DETAIL S-52-302 SCALE: 1/2" = 1'-0"



C DETAIL S-52-302 SCALE: 1/2" = 1'-0"

NOTES:

1. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S-00-001 AND S-00-002. FOR TYPICAL STRUCTURAL DETAILS, SEE DRAWINGS S-99-501 THROUGH S-99-507.

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

NORTH RAS PUMP STATION
SECTIONS II

STATE OF LOUISIANA
ROBERT CYR
License No. 46829
PROFESSIONAL ENGINEER
4/25/2025

WRIGHT-PIERCE
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601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

DR. A.NESBIT			
TRC. -			
CK. J.KELLOGG			
PROJECT NO: 21163	DESIGNED BY: J.KELLOGG	AP. R.CYR	
SUBMISSION: CONTRACT DRAWINGS		SCALE: AS NOTED	
CAD COORD: A.COUTURE		DATE: APRIL 2025	SET NO. / SHEET NO. 30 of 92

S-52-302

DWG. No. 12221-W-33

Autodesk Docs://LA-NewOrleans-21163-EastBank-STP-Phase2/21163-SM-RAS-PS-North.rvt

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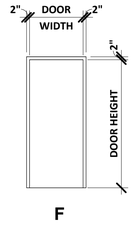
DOOR AND FRAME SCHEDULE

X APPLICABLE
- NON APPLICABLE

DOOR NO	DOOR W	DOOR H	DOOR THK	DOOR GLASS	TYPE	MATERIAL	RATING	FRAME HEAD	FRAME JAMB	FRAME SILL	HARDWARE SET	REMARKS
101a	3' - 0"	7' - 2"	1 3/4"	-	F	HM		B	E	THRESHOLD	1	
101b	3' - 0"	7' - 2"	1 3/4"	-	F	HM		B	E	THRESHOLD	1	

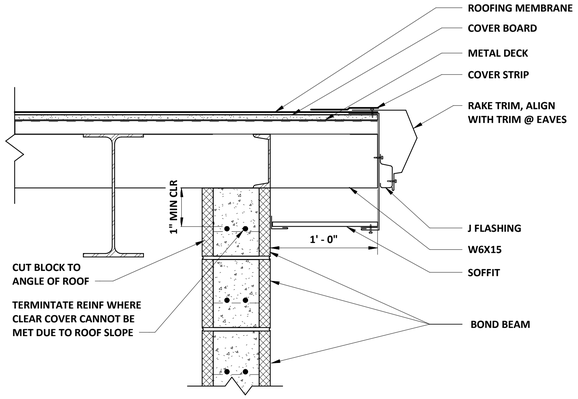
DOORS AND FRAMES KEY:

HM HOLLOW METAL

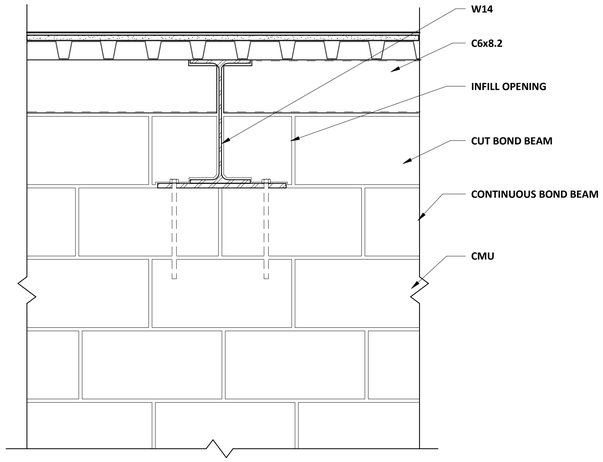


F

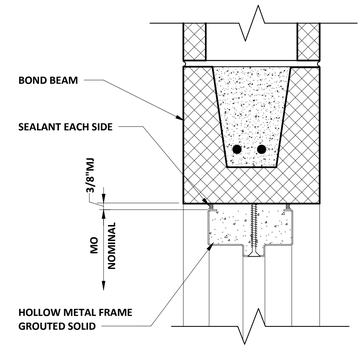
DOOR TYPES



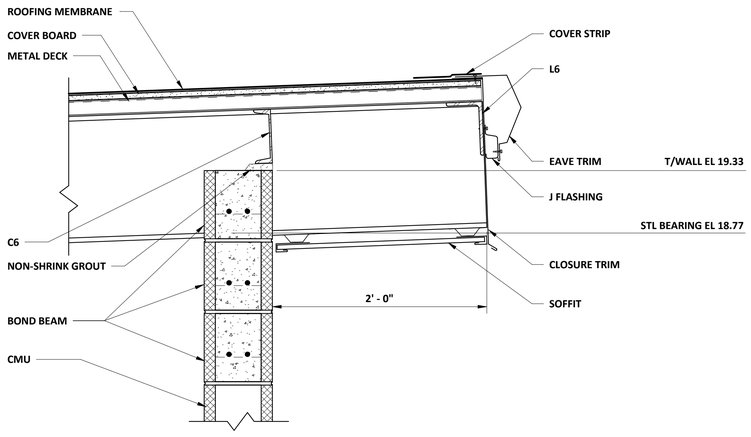
A S-52-104 **RAKE DETAIL**
SCALE: 1 1/2" = 1'-0"



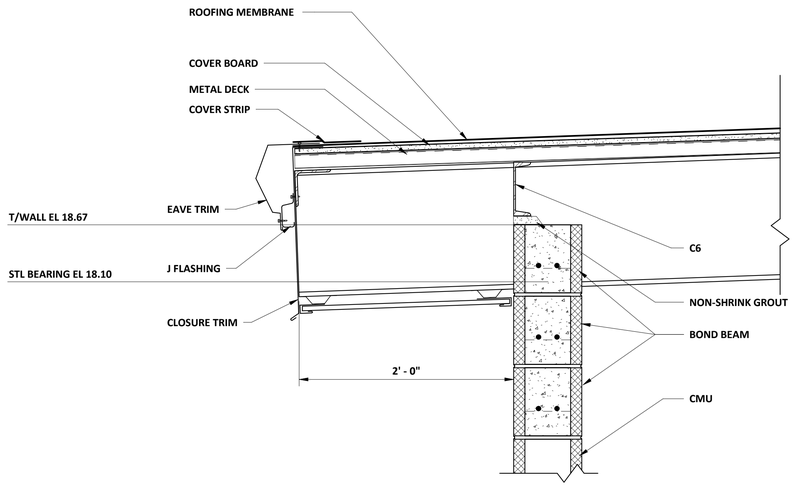
B S-52-104 **WALL DETAIL**
SCALE: 1 1/2" = 1'-0"



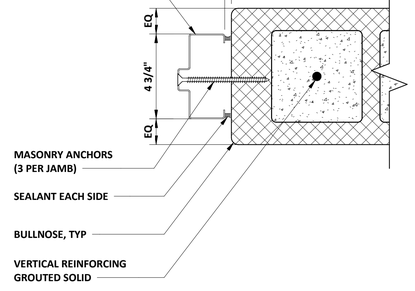
C **HEAD DETAIL**
SCALE: 3" = 1'-0"



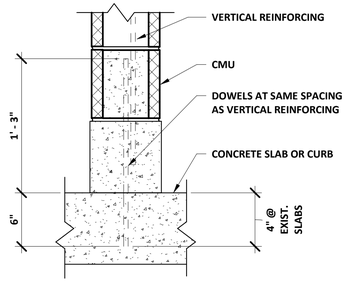
D S-52-104 **HIGH EAVE DETAIL**
SCALE: 1 1/2" = 1'-0"



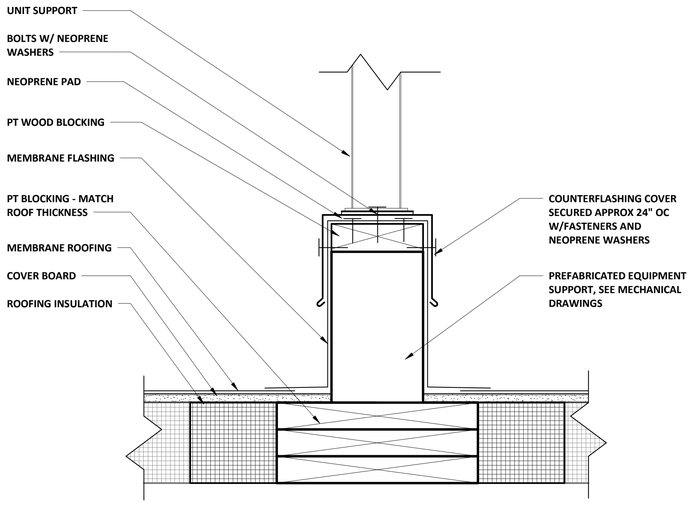
E S-52-104 **EAVE DETAIL**
SCALE: 1 1/2" = 1'-0"



F **JAMB DETAIL**
SCALE: 3" = 1'-0"



G S-52-302 **WALL DETAIL**
SCALE: 1 1/2" = 1'-0"



H S-52-104 **EQUIPMENT SUPPORT DETAIL**
SCALE: 3" = 1'-0"

NOTES:

1. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S-00-001 AND S-00-002. FOR TYPICAL STRUCTURAL DETAILS, SEE DRAWINGS S-99-501 THROUGH S-99-507.

STATE OF LOUISIANA — RAMEY CYR — License No. 46829 — PROFESSIONAL ENGINEER

4/25/2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

NORTH RAS PUMP STATION SCHEDULES AND DETAILS

PROJECT NO: 21163	DESIGNED BY: J.KELLOGG
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

DR.	A.NESBIT
TRC.	-
CK.	J.KELLOGG
AP.	R.CYR
SCALE: AS NOTED	
DATE: APRIL 2025	

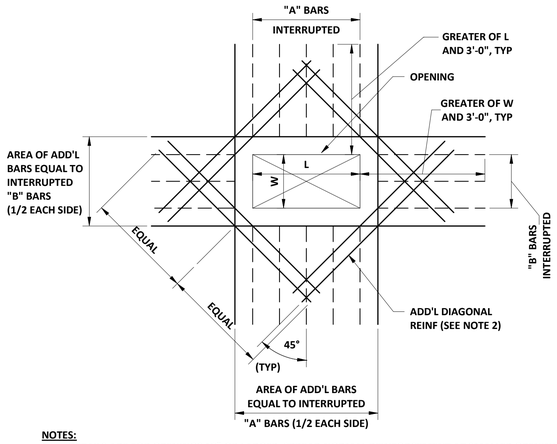
S-52-501

DWG. No. 12221-W-33

SET NO. | SHEET NO. 31 of 92

Autodesk Docs://1A-NewOrleans-21163-EastBank-STP-Phase1/21163-SM-RAS-PS-North.rvt

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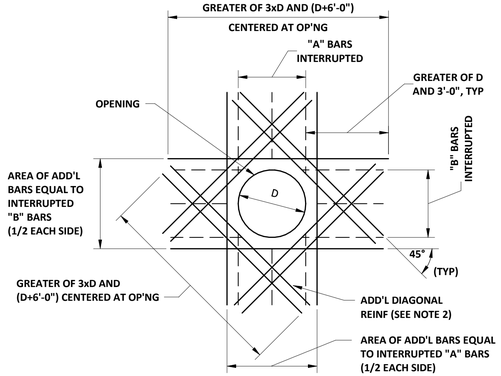


NOTES:

1. DETAILS ARE FOR OPENINGS 12" OR LARGER. SPREAD NORMAL REINFORCEMENT AT SMALLER OPENINGS AND OMIT DIAGONAL BARS.
2. PROVIDE ADDITIONAL DIAGONAL BARS 3" OC AS FOLLOWS:
   - 2.1 CONCRETE LESS THAN 12" THICK: 2-#5 x 4'-0", MID
   - 2.2 CONCRETE GREATER THAN OR EQUAL TO 12" THICK: 2 - #5 x 4'-0" EACH FACE
3. SPACE ADDITIONAL BARS AT SIDES OF OPENING 3" OC.
4. ADDITIONAL BARS NOT REQUIRED AT EDGE OF OPENING WITHIN 6 INCHES OF PARALLEL BEAM OR WALL.
5. PROVIDE STANDARD END HOOKS WHERE EXTENSION OF ADDITIONAL BARS SHOWN IS NOT POSSIBLE.
6. WHERE DOWELS FROM FOUNDATION ARE INTERRUPTED AT OPENING NEAR BASE OF WALL, ADDITIONAL FOUNDATION DOWELS ARE SIMILARLY REQUIRED AT EACH SIDE OF OPENING AT EACH FACE OF WALL.

REINFORCEMENT AT RECTANGULAR OPENING IN STRUCTURAL SLAB/WALL

NTS

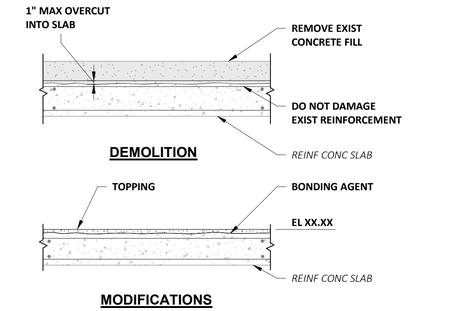


NOTES:

1. DETAILS ARE FOR OPENINGS 12" AND LARGER. SPREAD NORMAL REINFORCEMENT AT SMALLER OPENINGS AND OMIT DIAGONAL BARS.
2. PROVIDE ADDITIONAL DIAGONAL BARS 3" OC AS FOLLOWS:
   - 2.1 CONCRETE LESS THAN 12" THICK: 2-#5 MID
   - 2.2 CONCRETE GREATER THAN OR EQUAL TO 12" THICK: 2-#5 EACH FACE
3. SPACE ADDITIONAL BARS AT SIDES OF OPENING 3" OC.
4. ADDITIONAL BARS NOT REQUIRED AT EDGE OF OPENING WITHIN 6 INCHES OF BEAM OR WALL.
5. PROVIDE STANDARD END HOOKS WHERE EXTENSION OF ADDITIONAL BARS SHOWN IS NOT POSSIBLE.
6. WHERE DOWELS FROM FOUNDATION ARE INTERRUPTED AT OPENING NEAR BASE OF WALL, ADDITIONAL FOUNDATION DOWELS ARE SIMILARLY REQUIRED AT EACH SIDE OF OPENING AT EACH FACE OF WALL.

REINFORCEMENT AT ROUND OPENING IN STRUCTURAL SLAB/WALL

NTS

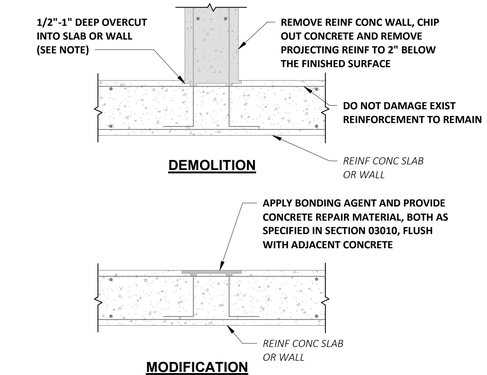


NOTES:

1. SEE SPECIFICATION SECTION 03320 FOR SURFACE PREPARATION OF PRE-EXISTING CONCRETE.
2. SEE SPECIFICATION SECTION 03320 FOR PLACEMENT OF CONCRETE TOPPING.
3. SEE SPECIFICATION SECTION 03350 FOR FINISHING OF CONCRETE.
4. SEE SPECIFICATION SECTION 03010 FOR CONCRETE REPAIR.

CONCRETE FILL REMOVAL

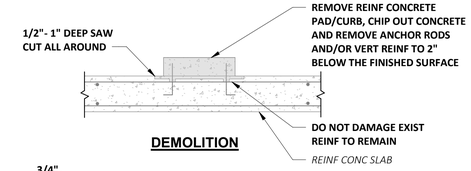
NTS



NOTE: IF THERE'S A CONSTRUCTION JOINT AT THE FACE OF THE SLAB OR WALL TO REMAIN, CONCRETE OVERCUT IS NOT REQUIRED. REMOVE REINF TO 2" BELOW FINISHED SURFACE AND REPAIR AS INDICATED.

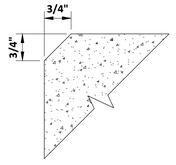
CONCRETE WALL REMOVAL

NTS



CONCRETE PAD REMOVAL

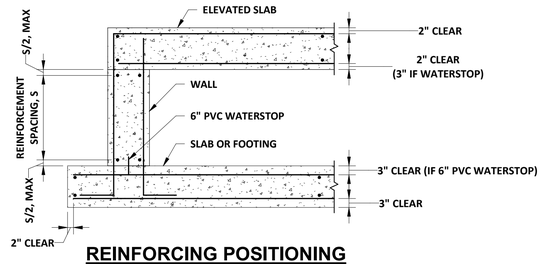
NTS



NOTE: CHAMFER ALL CORNERS AND EDGES, EXCEPT THOSE DIRECTLY BELOW MASONRY AND WOOD WALLS, AT WALL-MOUNTED ANGLES SUPPORTING GRATING OR PLATE AND WHERE COVERED BY BACKFILL.

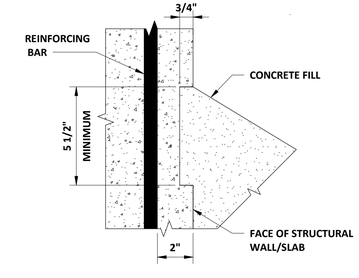
CHAMFER

NTS



REINFORCING POSITIONING

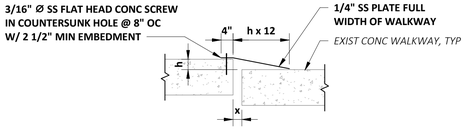
NTS



NOTE: SEE SPECIFICATION SECTION 03320 FOR PLACEMENT OF CONCRETE FILL ON CONCRETE SUBSTRATE.

CONCRETE FILL KEY

NTS

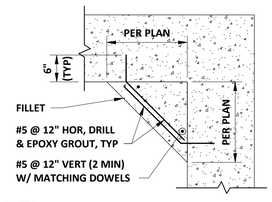


NOTES:

1. DETAIL APPLIES TO EXISTING CONCRETE WALKWAYS WITH VERTICAL OR LATERAL SEPARATION AT JOINT.
2. MAXIMUM VERTICAL SEPARATION (h) = 2"
3. MAXIMUM LATERAL SEPERATION (x) = 4"

PLATE AT EXIST CONCRETE JOINT

NTS

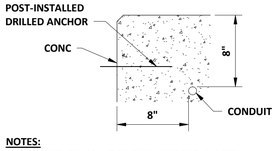


NOTES:

1. ALTERNATELY, FILLETS MAY BE FORMED AND CAST WITH WALL PLACEMENT.
2. PREPARE CONSTRUCTION JOINT AS SPECIFIED IN SECTION 03320.

CONCRETE FILLET

NTS

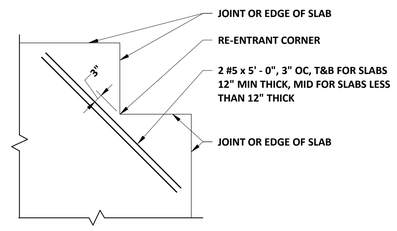


NOTES:

1. REINFORCEMENT NOT SHOWN FOR CLARITY.
2. CLEARANCE REQUIREMENTS ARE IN AREAS WHERE POST-INSTALLED DRILLED ANCHORS WILL BE INSTALLED. INDICATED CLEARANCES ARE MINIMUMS UNLESS OTHERWISE INDICATED. GENERAL CONTRACTOR SHALL COORDINATE LOCATIONS OF CONDUIT W/ DRILLED ANCHORS.

CONDUIT CLEARANCE

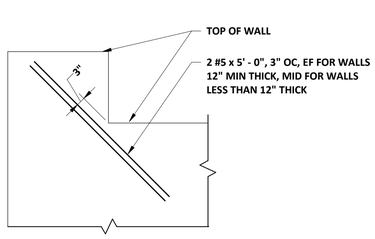
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NOTE: SLAB REINFORCEMENT NOT SHOWN FOR CLARITY.

SLAB-ON-GROUND RE-ENTRANT CORNER - PLAN VIEW

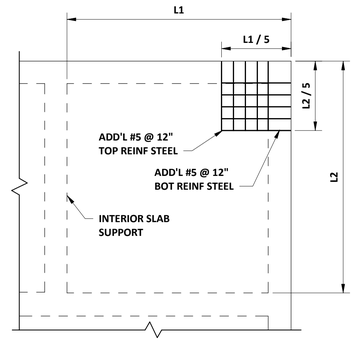
NTS



NOTE: WALL REINFORCEMENT NOT SHOWN FOR CLARITY.

WALL CORNER - ELEVATIONAL VIEW

NTS



ELEVATED STRUCTURAL SLAB EXTERIOR CORNER

NTS

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

TYPICAL STRUCTURAL DETAILS I

STATE OF LOUISIANA
ROBERT CYR
License No. 46829
PROFESSIONAL ENGINEER
4/25/2025

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601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163	DESIGNED BY: J.KELLOGG
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

DR.	A.NESBIT
TRC.	-
CK.	J.KELLOGG
AP.	R.CYR
SCALE: AS NOTED	
DATE: APRIL 2025	

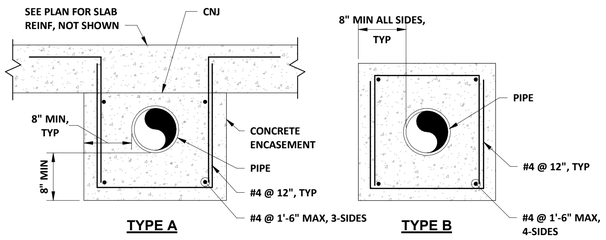
S-99-501

DWG. No. 12221-W-33

SET NO. | SHEET NO. 32 of 92

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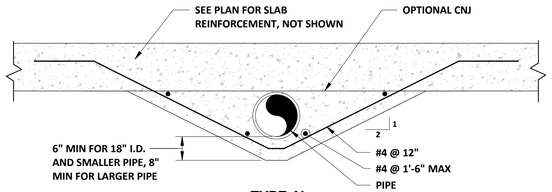


TYPE A

(FOR PIPES WITHIN 2 FEET OF BOTTOM OF SLAB)

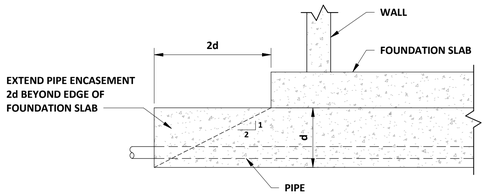
TYPE B

(FOR ALL OTHER PIPES)



TYPE A'

(FOR PIPES WITHIN 2 FEET OF BOTTOM OF SLAB AND AS OTHERWISE INDICATED)

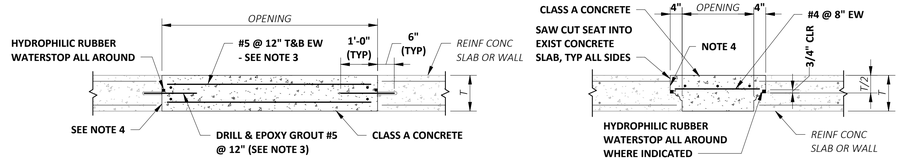


NOTE: REINFORCEMENT NOT SHOWN FOR CLARITY.

DETAIL AT EDGE OF FOUNDATION

CONCRETE PIPE ENCASEMENT

NTS



EXISTING OPENINGS > 1'-6"

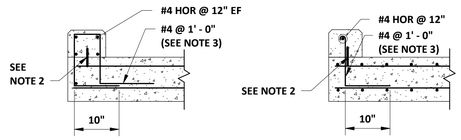
EXISTING OPENINGS ≤ 1'-6"

NOTES:

1. OPENING TO BE FILLED IS AN EXISTING OPENING OR AN OPENING REMAINING AFTER REMOVAL OF A HATCH OR EMBEDDED FRAME.
2. OPENING SIZE INDICATED IS THE DIAMETER OF A ROUND OPENING OR THE LEAST DIMENSION OF A RECTANGULAR OPENING.
3. FOR OPENINGS > 1'-6":
   IF $T \geq 12"$, USE 2 ROWS DOWELS LOCATED 4" FROM EACH FACE
   IF $T < 12"$, USE 1 ROW DOWELS CENTERED IN THE SLAB/WALL (AS SHOWN) AND #5 @ 12" EW MID
4. PREPARE SUBSTRATE AND APPLY BONDING AGENT AS SPECIFIED IN SECTION 03010.
5. THESE DETAILS APPLY TO FILLED OPENINGS UNLESS OTHERWISE DETAILED.

FILLED OPENING IN EXISTING CONC SLAB/WALL

NTS



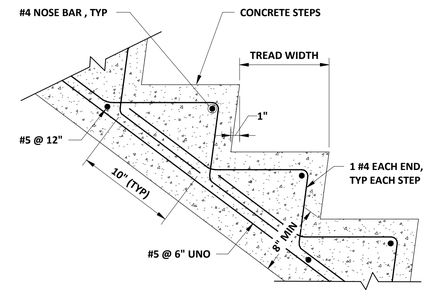
CURB (GREATER THAN 8" WIDE) **CURB (8" OR LESS IN WIDTH)**

NOTES:

1. FOR CURB CORNER REINFORCING, SEE WALL REINFORCEMENT DETAIL THIS SHEET.
2. ADD WATERSTOP IN CONTAINMENT CURBS AND CURBS EXPOSED TO THE EXTERIOR. (UNLESS OTHERWISE NOTED)
   2.1 USE SURFACE APPLIED WATERSTOP W/ CURBS PLACED ON EXISTING SLABS.
   2.2 USE PVC WATERSTOPS W/ CURBS PLACED ON NEW SLABS.
3. FOR CURBS PLACED ON EXISTING CONCRETE, DRILL HOLES AND INSTALL #5 @ 12" W/ HS EPOXY (MIN 6" EMBEDMENT).
4. REFER TO DRAWINGS FOR CURB HEIGHT "H" AND WIDTH "W".

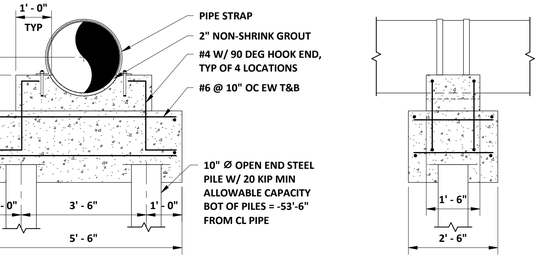
CONCRETE CURBS

NTS



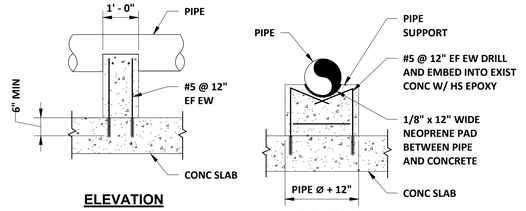
CONCRETE STAIR STEP

NTS



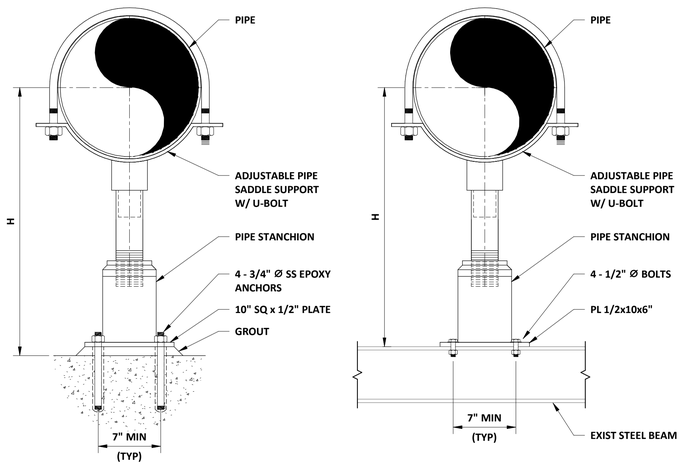
24" RAS PIPE SUPPORT

NTS



CONCRETE PIPE SUPPORT

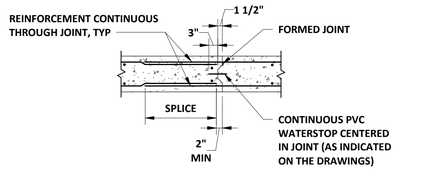
NTS



ON EXISTING CONCRETE **ON EXISTING STEEL**

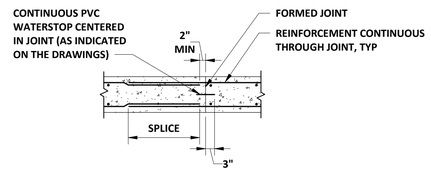
STANCHION PIPE SUPPORT

NTS



ALTERNATE CONSTRUCTION JOINT WITH KEY

NTS



CONSTRUCTION JOINT

NTS

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

TYPICAL STRUCTURAL DETAILS II

STATE OF LOUISIANA — RYAN CYR — License No. 46829 — PROFESSIONAL ENGINEER

4/25/2025

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DR. A.NESBIT	
TRC. -	
CK. J.KELLOGG	
AP. R.CYR	
PROJECT NO: 21163	DESIGNED BY: J.KELLOGG
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025

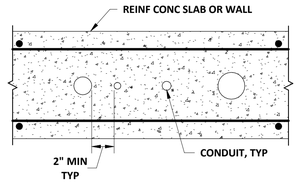
S-99-502

DWG. No. 12221-W-33

SET NO. | SHEET NO. 33 of 92

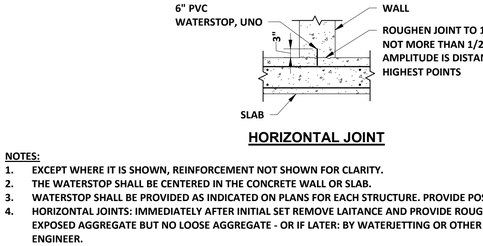
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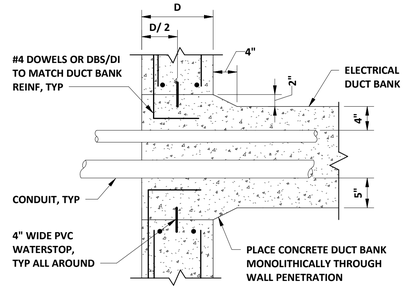
NOTES:
1. PIPES AND CONDUITS EMBEDDED IN A SLAB OR WALL, OTHER THAN THOSE PASSING THROUGH, SHALL:
   - A. BE LOCATED BETWEEN THE REINFORCEMENT MATS EXCEPT WHERE REINFORCED PIPE ENCASEMENTS ARE LOCATED BELOW THE BOTTOM MAT,
   - B. NOT REQUIRE REINFORCEMENT OR WATERSTOP TO BE CUT, BENT, OR OTHERWISE DISPLACED FROM ITS PROPER LOCATION,
   - C. NOT BE LARGER IN OUTSIDE DIAMETER THAN ONE-THIRD (1/3) THE THICKNESS OF THE WALL OR SLAB,
   - D. NOT EXCEED TWO CROSSING AT ANY POINT AND WITH THE SUM OF THE OUTSIDE DIAMETERS NOT EXCEEDING ONE-THIRD THE THICKNESS OF THE WALL OR SLAB,
   - E. NOT BE SPACED CLOSER THAN THREE DIAMETERS (OF THE LARGER DIAMETER) ON CENTER.
   - F. BE LOCATED WITH AT LEAST 2" CLEAR BETWEEN ADJACENT CONDUIT.
2. GC SHALL ALSO COORDINATE WITH CONDUIT PLACEMENT REQUIREMENTS OF SPECIFICATION SECTION 16050.

CONDUIT PLACEMENT IN SLAB OR WALL
NTS



NOTES:
1. SEE ALL ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILS.
2. THE FOLLOWING MINIMUM SPACING REQUIREMENTS ARE REQUIRED BY THE ELECTRICAL CONTRACT DOCUMENTS: 3" CLEAR SPACING BETWEEN CONDUIT AND 12" CLEAR SPACING BETWEEN POWER AND SIGNAL/CONTROL CONDUIT.

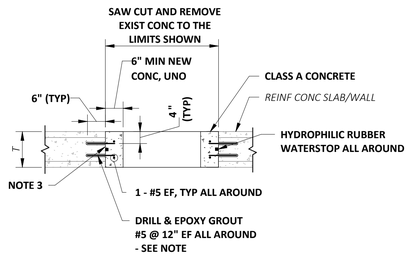
ELECTRICAL DUCT BANK REINFORCEMENT
NTS



SECTION

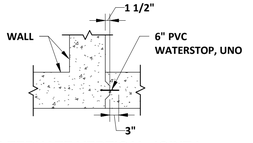
NOTES:
1. PROVIDE ADD'L WALL REINFORCEMENT AROUND DUCT BANK PENETRATIONS IN ACCORDANCE WITH "REINFORCEMENT AT RECTANGULAR OPENING" DETAIL.
2. DUCT BANK REINFORCEMENT (WHERE REQUIRED) NOT SHOWN FOR CLARITY.
3. IF SPACING BETWEEN ADJACENT CONDUIT EXCEEDS 1'-0", PROVIDE SEPARATE WALL PENETRATIONS.
4. WATERSTOP IS NOT REQUIRED IN FROST WALLS.

ELECTRICAL DUCT BANK PENETRATION IN FOUNDATION WALL
NTS

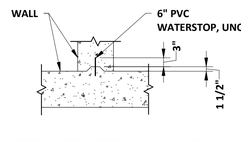


NOTES:
1. IF REQUIRED, ADDITIONAL SUPPORT FRAMING NOT SHOWN.
2. IF T ≥ 12", USE 2 ROWS DOWELS (AS SHOWN).
   IF T < 12", USE 1 ROW DOWELS CENTERED IN THE SLAB/WALL.
3. PREPARE SUBSTRATE AND APPLY BONDING AGENT AS SPECIFIED IN SECTION 03010.

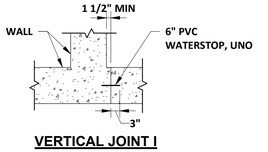
NEW OPENING IN EXISTING CONCRETE SLABS
NTS



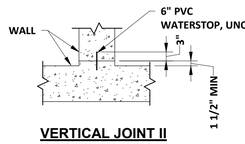
ALTERNATE VERTICAL JOINT I



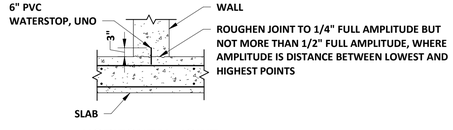
ALTERNATE VERTICAL JOINT II



VERTICAL JOINT I



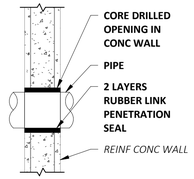
VERTICAL JOINT II



HORIZONTAL JOINT

NOTES:
1. EXCEPT WHERE IT IS SHOWN, REINFORCEMENT NOT SHOWN FOR CLARITY.
2. THE WATERSTOP SHALL BE CENTERED IN THE CONCRETE WALL OR SLAB.
3. WATERSTOP SHALL BE PROVIDED AS INDICATED ON PLANS FOR EACH STRUCTURE. PROVIDE POSITIVE SUPPORT FOR WATERSTOP.
4. HORIZONTAL JOINTS: IMMEDIATELY AFTER INITIAL SET REMOVE LAITANCE AND PROVIDE ROUGHENED SURFACE WITH UNIFORMLY EXPOSED AGGREGATE BUT NO LOOSE AGGREGATE - OR IF LATER: BY WATERJETTING OR OTHER EFFECTIVE METHOD APPROVED BY THE ENGINEER.
5. ALL JOINTS: BEFORE PLACING CONCRETE AGAINST HARDENED CONCRETE, THOROUGHLY CLEAN SURFACE WITH WIRE BRUSHES OR BY ABRASIVE BLASTING, FOLLOWED BY AIR BLAST CLEANING AND WETTING, OR BY WATERJETTING - REMOVE STANDING WATER.

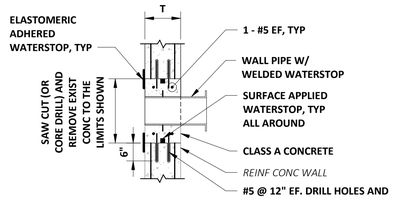
CONSTRUCTION JOINT WITH WATERSTOP
NTS



NOTE: COAT EXPOSED REINF STEEL WITH EPOXY PAINT.

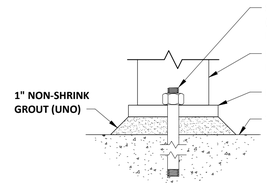
NOTES:
1. TYPE I SHALL BE USED WHERE A PIPE SLEEVE IS NOT REQUIRED.
   TYPE II SHALL BE USED WHERE A PIPE SLEEVE IS REQUIRED AND/OR PIPE DIAMETER IS 16" OR GREATER.
2. IF T > 8", USE 2 ROWS OF REINF STEEL DOWELS.
   IF T ≤ 8" USE 1 ROW CENTERED IN THE WALL.

PIPE PENETRATION IN EXISTING WALL TYPE I
NTS



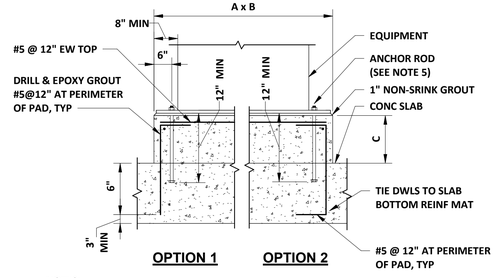
NOTES:
1. TYPE I SHALL BE USED WHERE A PIPE SLEEVE IS NOT REQUIRED.
   TYPE II SHALL BE USED WHERE A PIPE SLEEVE IS REQUIRED AND/OR PIPE DIAMETER IS 16" OR GREATER.
2. IF T > 8", USE 2 ROWS OF REINF STEEL DOWELS.
   IF T ≤ 8" USE 1 ROW CENTERED IN THE WALL.

PIPE PENETRATION IN EXISTING WALL TYPE II
NTS



NOTE: THIS DETAIL APPLIES TO VERTICAL SUPPORTS BEARING ON A SLAB. REFER TO EQUIPMENT PAD DETAIL FOR SUPPORT OF ALL OTHER EQUIPMENT.

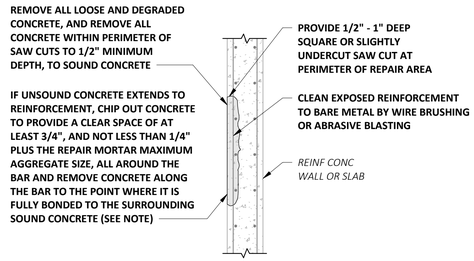
EQUIPMENT VERTICAL SUPPORT BASE
NTS



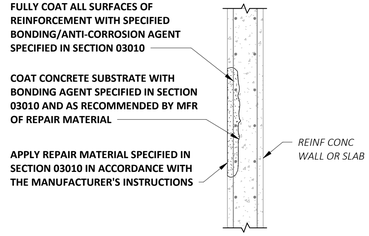
OPTION 1 OPTION 2

NOTES:
1. PROVIDE A MINIMUM 4" THICK REINFORCED CONCRETE PAD BELOW ALL EQUIPMENT, PIPE SUPPORTS, STANCHIONS, CONTROL PANELS, CHEMICAL STORAGE TANKS, ETC. UNLESS OTHERWISE NOTED.
2. A, B AND C DIMENSIONS SHALL BE DETERMINED BY THE GENERAL CONTRACTOR BASED ON EQUIPMENT SUPPLIED.
3. CONCRETE PAD SHALL ATTAIN THE DESIGN COMPRESSIVE STRENGTH PRIOR TO STARTUP OF EQUIPMENT.
4. FOR CONCRETE PADS PLACED ON EXISTING CONCRETE, DRILL & EPOXY GROUT #5 @ 12" AT PERIMETER OF PAD.
5. FOR CONCRETE PADS PLACED ON EXISTING CONCRETE, USE SS EPOXY ANCHORS.
6. PREPARE SUBSTRATE AND APPLY BONDING AGENT AS SPECIFIED PRIOR TO PLACING CONCRETE PAD.

EQUIPMENT PAD
NTS



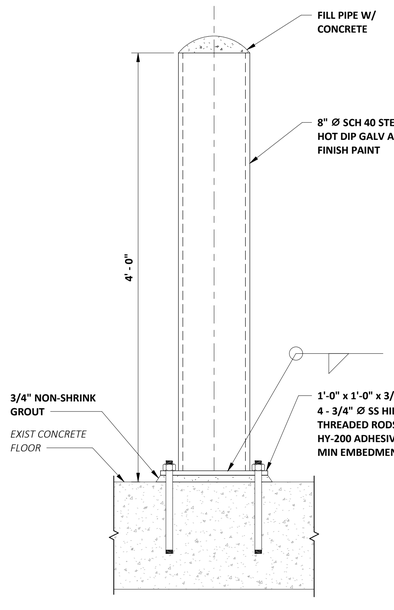
DEMOLITION



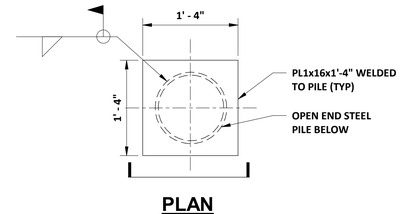
MODIFICATION

NOTE: NOTIFY THE ENGINEER IF EXCESSIVELY CORRODED REINFORCEMENT IS ENCOUNTERED SO THAT IT CAN BE EVALUATED. THIS INCLUDES 1/8 INCH OR GREATER LOSS OF THE ORIGINAL BAR DIAMETER AFTER REMOVAL OF CORROSION.

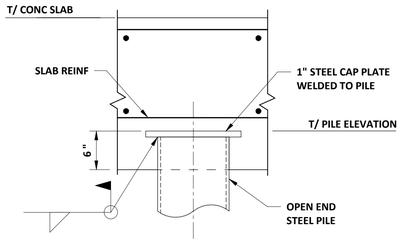
SPALLING CONCRETE REPAIRS
NTS



STEEL BOLLARD
NTS

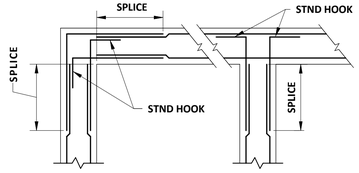


PLAN



SECTION

PILE CONNECTION
NTS



CORNER INTERSECTION

NOTES:
1. DETAILS APPLY UNLESS OTHERWISE NOTED.
2. VERTICAL REINFORCEMENT NOT SHOWN.
3. CORNER BARS SHALL MATCH HORIZONTAL BARS IN SIZE AND SPACING, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
4. FOR SIZE AND SPACING OF REINFORCEMENT, SEE APPLICABLE WALL SECTIONS.

RECTANGULAR WALL HORIZONTAL CORNER REINFORCEMENT II
NTS

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA — ANTHONY R. CYR — License No. 40329 — PROFESSIONAL ENGINEER
4/25/2025

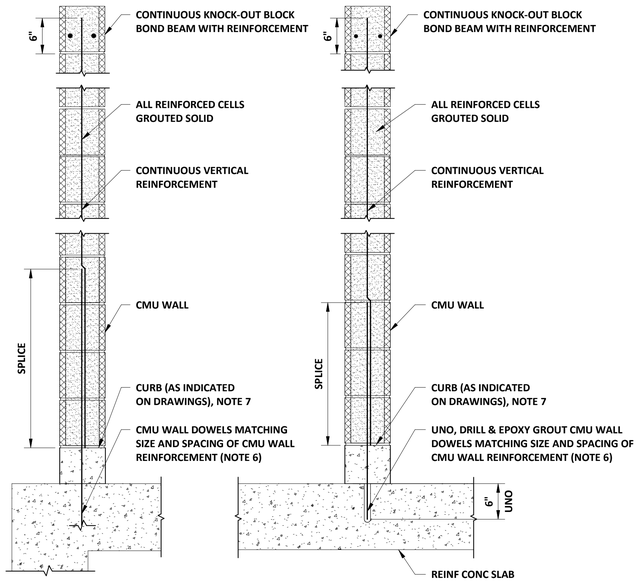
WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163	DESIGNED BY: J.KELLOGG	AP. R.CYR	
SUBMISSION: CONTRACT DRAWINGS		SCALE: AS NOTED	
CAD COORD: A.COUTURE		DATE: APRIL 2025	SET NO. 34 of 92

TYPICAL STRUCTURAL DETAILS III

DR. A.NESBIT	
TRC. -	S-99-503
CK. J.KELLOGG	
	DWG. No. 12221-W-33

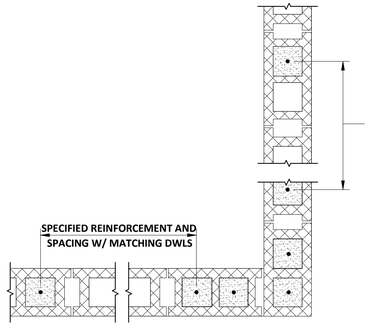
Autodesk Docs://LA-NewOrleans-21163-EastBank-STP-Phase/21163-SM-NotesandDetails.rvt



STRUCTURAL WALL **PARTITION WALL**

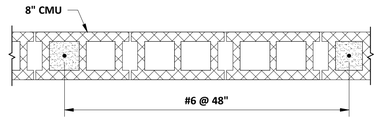
NOTES:
1. SEE STRUCTURAL WALL SECTIONS FOR SPECIFIC BUILDINGS FOR CMU REINFORCEMENT SIZE AND SPACING.
2. DETAIL SHOWN FOR WALL REINFORCED WITH SINGLE ROW OF VERTICAL REINFORCEMENT. PROVIDE SIMILAR FOR WALL REINFORCED WITH TWO ROWS OF VERTICAL REINFORCEMENT.
3. SEE ARCHITECTURAL DRAWINGS FOR INFORMATION NOT SHOWN, INCLUDING JOINT REINFORCEMENT, VENEER, CAVITY INSULATION, TOP OF WALL SUPPORT, ETC.
4. G.C. SHALL COORDINATE LOCATIONS OF ALL SPLICED BARS WITH MASONRY SUBCONTRACTOR PRIOR TO SUBMISSION OF REINFORCEMENT SHOP DRAWINGS.
5. ALL SPLICE LENGTHS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
6. SEE STRUCTURAL WALL SECTIONS FOR SPECIFIC BUILDING WALLS FOR DOWEL DETAILS.
7. CONCRETE CURB REINFORCEMENT NOT SHOWN.

TYPICAL CMU WALL REINFORCEMENT - SECTIONS
NTS



NOTE: DETAIL SHOWN FOR WALL REINFORCED WITH SINGLE ROW OF VERTICAL REINFORCEMENT. PROVIDE SIMILAR FOR WALL REINFORCED WITH TWO ROWS OF VERTICAL REINFORCEMENT.

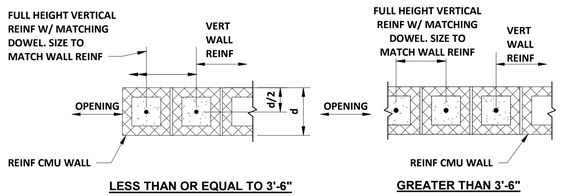
CMU REINFORCEMENT AT CORNER



8" STRUCTURAL WALL

NOTES:
1. VERTICAL REINFORCEMENT SHALL BE LAID OUT SUCH THAT CORNERS, INTERSECTIONS, WITHIN 8" OF WALL ENDS, AND WITHIN 8" OF EACH SIDE OF CONTROL JOINTS ARE REINFORCED. EACH SIDE OF OPENINGS WIDER THAN 16" SHALL BE REINFORCED WITHIN 16" OF EACH FACE OF OPENING.
2. VERTICAL REINFORCEMENT AT SIDES OF OPENING SHALL EXTEND UP TO THE NEXT FLOOR OR ROOF LEVEL.
3. PROVIDE 2 - #5 HORIZONTAL BARS AT BOTTOM OF OPENINGS TALLER THAN 16". EXTEND BOTTOM BARS 25" PAST, AND LINTEL BARS 40 BAR DIAMETERS PAST, EACH FACE OF OPENING, EXCEPT AT CONTROL JOINTS AND ISOLATION JOINTS.
4. SEE DETAILS FOR WALL REINFORCEMENT AT OPENINGS.
5. PROVIDE KNOCK-OUT BLOCK BOND BEAMS WITH 2 - #5 HORIZONTAL BARS AT TOP OF WALLS, CONTINUOUS AT CONTROL JOINTS.
6. WHERE MASONRY WYTHE CONTAINS A SINGLE VERTICAL ROW OF REINFORCEMENT, IT SHALL BE POSITIONED AT THE CENTER OF THE UNITS, EQUIDISTANT FROM EACH MASONRY FACE, WITH A TOLERANCE OF PLUS OR MINUS 1/2".
7. PROVIDE HOT-DIPPED GALVANIZED BAR SUPPORTS AND SPACERS TO PREVENT REINFORCEMENT DISPLACEMENT BEYOND THE PERMITTED TOLERANCES. BAR SUPPORTS AND SPACERS SHALL BE INCLUDED UNDER SECTION 04200.
8. PLACE REINFORCEMENT IN GROUT SPACES PRIOR TO GROUTING, PUSHING REINFORCEMENT INTO GROUT IS PROHIBITED.

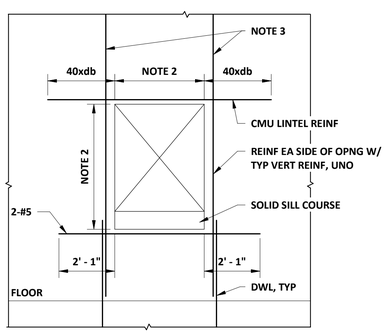
TYPICAL CMU WALL REINFORCEMENT - PLANS & NOTES
NTS



LESS THAN OR EQUAL TO 3'-6" **GREATER THAN 3'-6"**

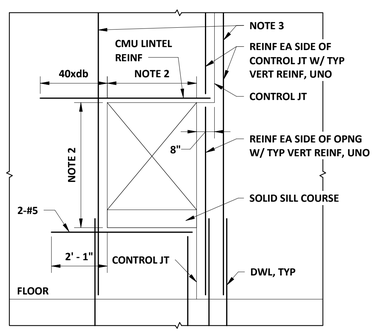
NOTE: REFER TO CMU WALL REINFORCING SCHEDULE FOR VERTICAL REINFORCEMENT.

REINFORCING AT CMU WALL OPENINGS
NTS



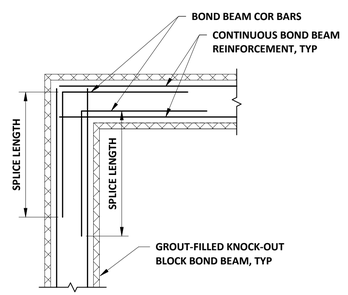
NOTES:
1. SIMILAR DETAIL APPLICABLE AT DOOR OPENINGS.
2. 2-#5 BOT BARS REQ'D WHEN DIMENSION EXCEEDS 16".
3. REINFORCE SIDES OF OPNG WHEN DIMENSION EXCEEDS 16". WHEN DIMENSION EXCEEDS 4'-0" REINFORCE TWO ADJACENT CELLS W/ TYPICAL VERTICAL REINFORCEMENT EACH SIDE OF OPNG.
4. VERTICAL REINFORCEMENT AT SPECIFIED SPACING ABOVE AND BELOW OPENINGS 4'-0" AND GREATER IN WIDTH IS NOT SHOWN.

CMU WALL REINF @ OPENING - CMU LINTEL
NTS

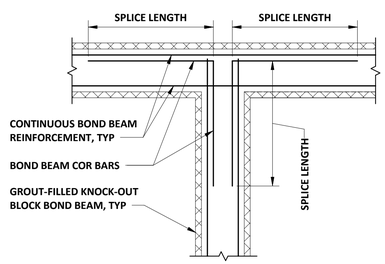


NOTES:
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2. 2-#5 BOT BARS REQ'D WHEN DIMENSION EXCEEDS 16".
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4. VERTICAL REINFORCEMENT AT SPECIFIED SPACING ABOVE AND BELOW OPENINGS 4'-0" AND GREATER IN WIDTH IS NOT SHOWN.
5. SEE PLAN FOR ACTUAL CONTROL JOINT LOCATIONS.
6. RAKE CONTROL JOINT, AND PROVIDE BACKER ROD & SEALANT.

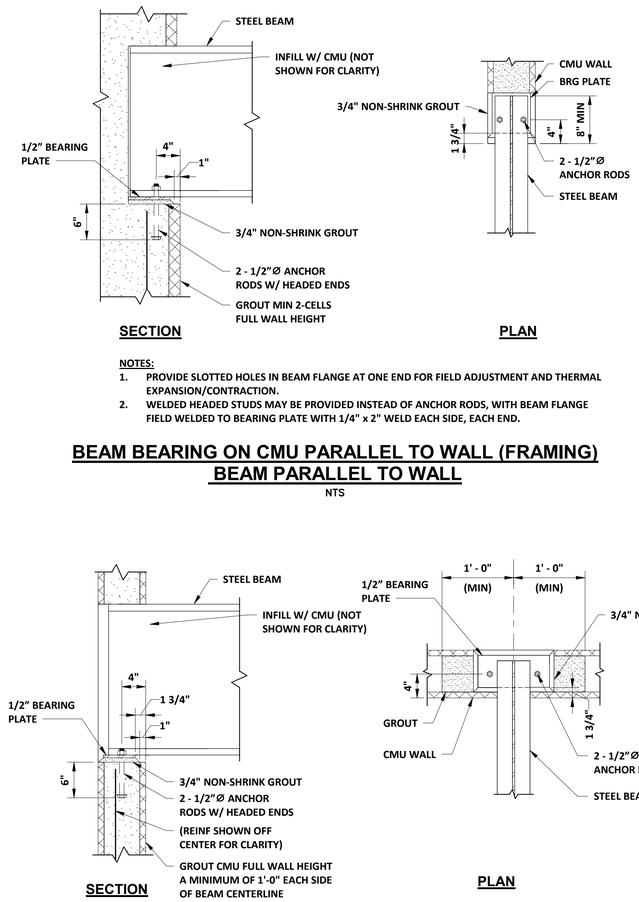
CMU WALL REINF @ OPNG/CJ - CMU LINTEL
NTS



BOND BEAM CORNER REINFORCEMENT
NTS



BOND BEAM INTERSECTION REINFORCEMENT
NTS



SECTION **PLAN**

NOTES:
1. PROVIDE SLOTTED HOLES IN BEAM FLANGE AT ONE END FOR FIELD ADJUSTMENT AND THERMAL EXPANSION/CONTRACTION.
2. WELDED HEADED STUDS MAY BE PROVIDED INSTEAD OF ANCHOR RODS, WITH BEAM FLANGE FIELD WELDED TO BEARING PLATE WITH 1/4" x 2" WELD EACH SIDE, EACH END.

BEAM BEARING ON CMU PARALLEL TO WALL (FRAMING) BEAM PARALLEL TO WALL
NTS

SECTION **PLAN**

NOTES:
1. PROVIDE SLOTTED HOLES IN BEAM FLANGE AT ONE END FOR FIELD ADJUSTMENT AND THERMAL EXPANSION/CONTRACTION.
2. WELDED HEADED STUDS MAY BE PROVIDED INSTEAD OF ANCHOR RODS, WITH BEAM FLANGE FIELD WELDED TO BEARING PLATE WITH 1/4" x 2" WELD EACH SIDE, EACH END.

BEAM BEARING ON CMU PERPENDICULAR TO WALL (FRAMING)
NTS

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA — RYAN P. CYR — License No. 46829 — PROFESSIONAL ENGINEER
4/25/2025

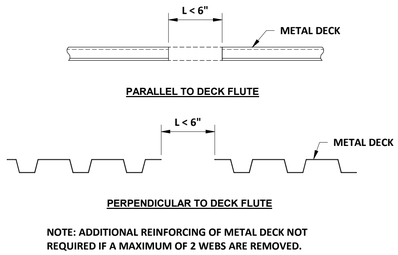
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TYPICAL STRUCTURAL DETAILS IV

PROJECT NO: 21163	DESIGNED BY: J.KELLOGG	DR. A.NESBIT	S-99-504
SUBMISSION: CONTRACT DRAWINGS		TRC. -	
CAD COORD: A.COUTURE		CK. J.KELLOGG	
		AP. R.CYR	DWG. No. 12221-W-33
		SCALE: AS NOTED	
		DATE: APRIL 2025	SET NO. SHEET NO. 35 of 92

4/25/2025 6:27:20 AM
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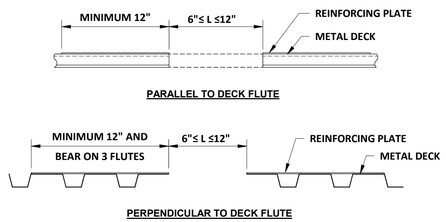
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NOTE: ADDITIONAL REINFORCING OF METAL DECK NOT REQUIRED IF A MAXIMUM OF 2 WEBS ARE REMOVED.

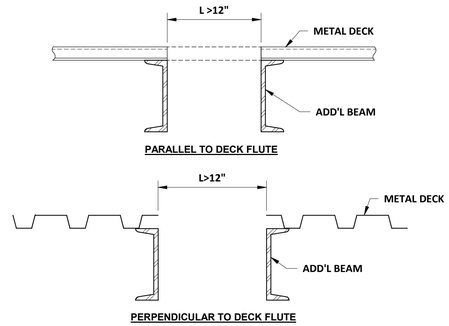
REINFORCING AT METAL DECK < 6" OPENING

NTS



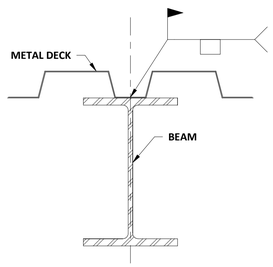
REINFORCING AT METAL DECK ≤ 6" OPENING ≤ 12"

NTS



REINFORCING AT METAL DECK OPENINGS OPENING > 12"

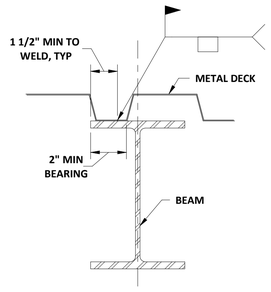
NTS



WELDS AT DECK PARALLEL TO BEAMS

STEEL DECK WELDS (STRUCTURAL STEEL AND JOIST SUPPORTS) DECK CENTERED ON BEAM

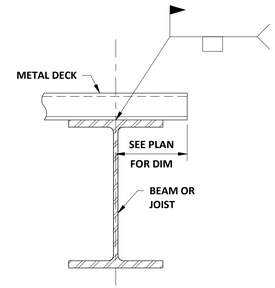
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WELDS AT DECK PARALLEL TO BEAMS

STEEL DECK WELDS (STRUCTURAL STEEL AND JOIST SUPPORTS) DECK NOT CENTERED ON BEAM

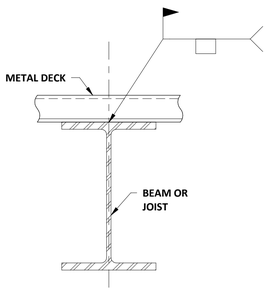
NTS



WELDS AT DECK PERPENDICULAR TO BEAMS (OR JOISTS)

STEEL DECK WELDS (STRUCTURAL STEEL AND JOIST SUPPORTS) END BEARING

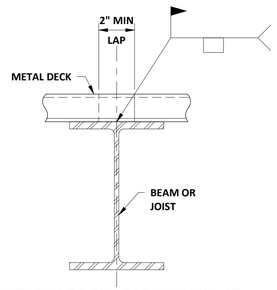
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WELDS AT DECK PERPENDICULAR TO BEAMS (OR JOISTS)

STEEL DECK WELDS (STRUCTURAL STEEL AND JOIST SUPPORTS) INTERMEDIATE BEARING

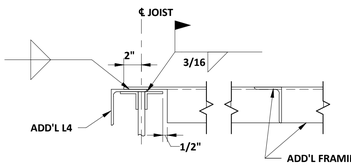
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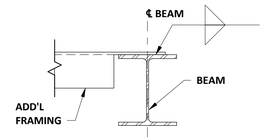
WELDS AT DECK PERPENDICULAR TO BEAMS (OR JOISTS)

STEEL DECK WELDS (STRUCTURAL STEEL AND JOIST SUPPORTS) LAP JOINT

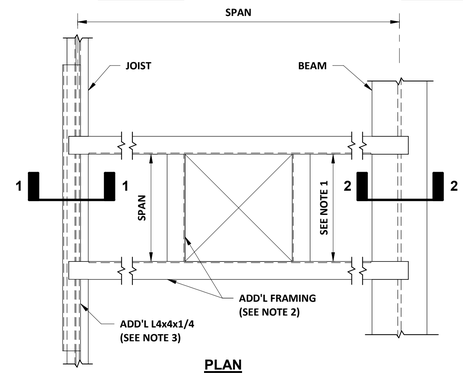
NTS



SECTION 1-1



SECTION 2-2



PLAN

NOTES:
1. GENERAL CONTRACTOR SHALL COORDINATE SIZE OF OPENING WITH EQUIPMENT SUPPLIED.
2. ADDITIONAL FRAMING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
   - A. SPAN ≤ 5'-0": L4x3x1/4 (LLV)
   - B. 5'-0" < SPAN ≤ 8'-0": L5x3 1/2x1/4 (LLV)
   - C. SPAN > 8'-0": C10x20
3. EXTEND ADDITIONAL L4 FRAMING 12" PAST BAR JOIST PANEL POINTS. PROVIDE AT BAR JOISTS WHERE ROOF OPENING FRAMING SUPPORTS EQUIPMENT WEIGHING 200 LBS AND GREATER.

METAL DECK OPENING FRAMING

NTS

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA — RYAN T. CYR — License No. 40329 — PROFESSIONAL ENGINEER
4/25/2025

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601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

TYPICAL STRUCTURAL DETAILS VI

PROJECT NO: 21163	DESIGNED BY: J.KELLOGG
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

DR.	A.NESBIT
TRC.	-
CK.	J.KELLOGG
AP.	R.CYR
SCALE: AS NOTED	
DATE: APRIL 2025	

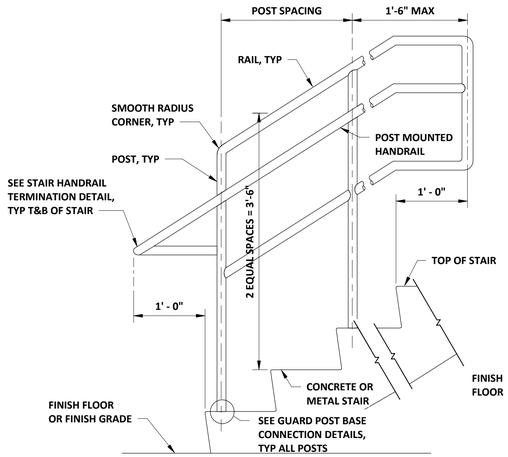
S-99-505

DWG. No. 12221-W-33

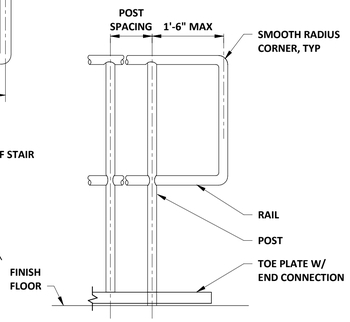
SET NO. | SHEET NO. 36 of 92

Autodesk Docs://LA-NewOrleans-21163-EastBank-STP-Phase2/21163-SM-NotesandDetails.rvt

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STAIR HANDRAILS

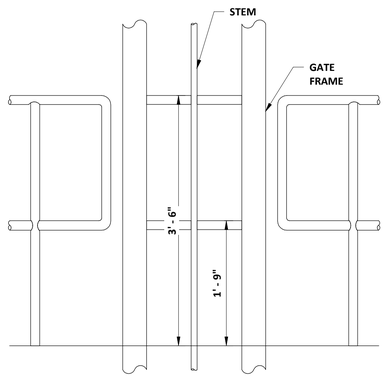


GUARDS

NOTES:
1. MATERIALS OF CONSTRUCTION AS INDICATED ON DRAWINGS.
2. PROVIDE TOE PLATE ON ALL GUARDS (UON).
3. PROVIDE HANDRAIL EXTENSIONS AT THE BOTTOM OF ALL STAIRS (UON). EXTENSION AT TOP AND BOTTOM OF STAIR NOT REQUIRED FOR EQUIPMENT ACCESS PLATFORMS.
4. RAIL HEIGHT SHALL BE MEASURED TO THE TOP OF THE RAIL.
5. RAILS AND GUARDS SHALL BE 1 1/2" SCH 40 PIPE, POSTS SHALL BE 1 1/2" SCH 80 PIPE.

HANDRAILS AND GUARDS

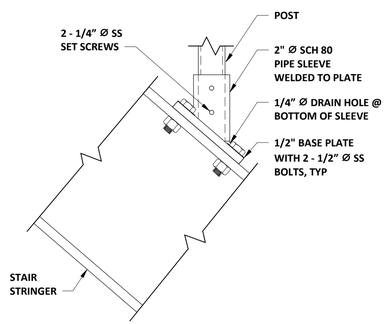
NTS



NOTE: GATE FRAMES SHALL BE FABRICATED WITH TOP AND MID LEVEL FRAMES AT THE HEIGHTS INDICATED.

TERMINATION OF GUARDS AT GATE FRAMES

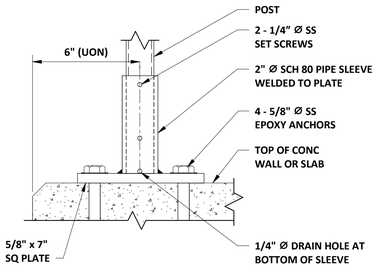
NTS



NOTES:
1. TOE PLATES NOT SHOWN FOR CLARITY.
2. MATERIAL OF CONSTRUCTION AS INDICATED ON DRAWINGS.
3. PREMANUFACTURED RAIL BASES MAY BE USED PROVIDED THE REQUIREMENTS OF THE ABOVE DETAILS ARE MET.

GUARD POST BASE CONNECTION (METAL SUPPORT) TOP MOUNTED (STAIR STRINGER)

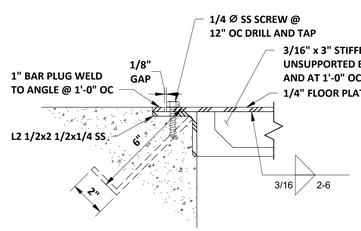
NTS



NOTES:
1. TOE PLATES NOT SHOWN FOR CLARITY.
2. MATERIAL OF CONSTRUCTION AS INDICATED ON DRAWINGS.
3. PREMANUFACTURED RAIL BASES MAY BE USED PROVIDED THE REQUIREMENTS OF THE ABOVE DETAILS ARE MET.
4. UNLESS OTHERWISE NOTED, USE TYPE 1.
5. TYPE 2 SHALL BE USED WHEN MOUNTING TO CONCRETE WITH A DEPTH GREATER THAN OR EQUAL TO 12" AND LESS THAN 18".

GUARD POST BASE CONNECTION (CONCRETE SUPPORT) TOP MOUNTED

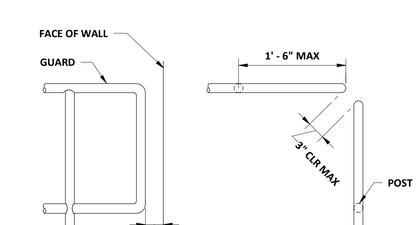
NTS



NOTES:
1. MATERIALS OF CONSTRUCTION AS INDICATED ON THE DRAWINGS.
2. ALL FLOOR PLATES SHALL BE CONSIDERED NON GAS TIGHT UNLES SPECIFICALLY INDICATED AS GAS TIGHT ON THE DRAWINGS.
3. HINGE REQUIRED ONLY WHERE INDICATED ON DRAWINGS.
4. STIFFENERS SHALL BE INSTALLED IN THE SPAN DIRECTION OF THE PLATE INDICATED ON THE DRAWINGS. SPAN DIRECTION IS THE SHORT DIRECTION UON.
5. WIDTH OF FLOOR PLATE SHALL BE 4'-0" MAXIMUM. PLATE SECTIONS OVER STOP GATES SHALL BE 1'-0" WIDTH AND CENTERED OVER STOP GATE.
6. SUPPORT SCHEDULE:
   6.1. UNLESS OTHERWISE NOTED, USE SUPPORT 1
   6.2. SUPPORT 2 - INTERMEDIATE BEAM SUPPORT
   6.3 SUPPORT 3 - CONCRETE BEAMS AND EXISTING CONCRETE FLUSH WITH THE FLOOR PLATE
7. APPLY POLYAMIDE EPOXY PRIMER BETWEEN CONTACTING STAINLESS STEEL AND ALUMINUM SURFACES
8. OVERSIZE FASTENER HOLES IN PLATE 1/8" MIN TO ALLOW THERMAL MOVEMENTS.

FLOOR PLATE (NON GAS TIGHT) SUPPORT I

NTS



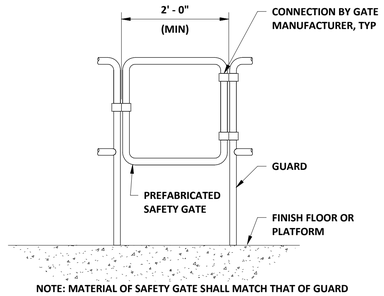
END TERMINATION

CORNER PLAN

NOTE: IN LIEU OF TERMINATION AT CORNERS, RAILS MAY BE CONTINUOUS AROUND CORNERS.

GUARD END TERMINATION AND CORNERS

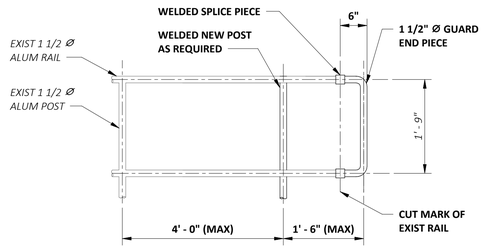
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NOTE: MATERIAL OF SAFETY GATE SHALL MATCH THAT OF GUARD

GUARD MOUNTED SWING GATE

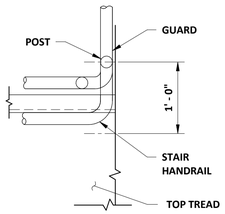
NTS



NOTES:
1. DETAIL TYPICAL AT ENDS OF ALL EXISTING RAILS THAT WILL BE CUT.
2. ALL NEW MATERIALS SHALL MATCH EXISTING.
3. POST BASE CONNECTION SHALL BE THAT WHICH IS APPLICABLE TO EXISTING CONDITIONS.
4. IF CUT LOCATION IS GREATER THAN 1'- 0" FROM AN EXISTING POST, A NEW POST SHALL BE INSTALLED AS SHOWN.

EXISTING CUT RAIL END PIECE

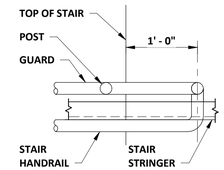
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NOTE: MATERIALS OF CONSTRUCTION AS INDICATED ON DRAWINGS.

STAIR HANDRAIL TERMINATION TOP (CASE I)

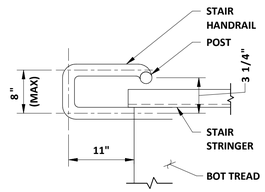
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NOTE: MATERIALS OF CONSTRUCTION AS INDICATED ON DRAWINGS.

STAIR HANDRAIL TERMINATION TOP (CASE II)

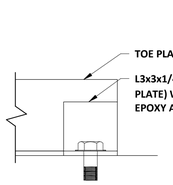
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NOTE: MATERIALS OF CONSTRUCTION AS INDICATED ON DRAWINGS.

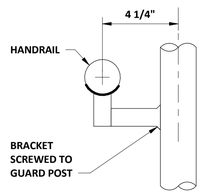
STAIR HANDRAIL TERMINATION BOTTOM

NTS



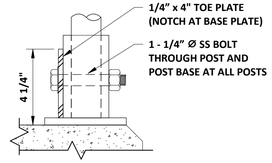
TOE PLATE END CONNECTION

NTS



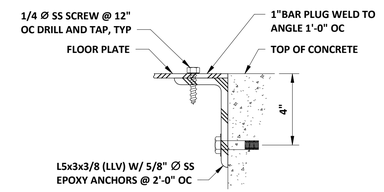
POST MOUNTED HANDRAIL

NTS



TOE PLATE TOP MOUNTED

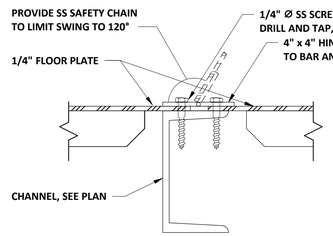
NTS



NOTES:
1. MATERIALS OF CONSTRUCTION AS INDICATED ON THE DRAWINGS.
2. GAS TIGHT FLOOR PLATES ARE REQUIRED WHERE INDICATED ON THE DRAWINGS.
3. HINGE REQUIRED ONLY WHERE INDICATED ON DRAWINGS.
4. STIFFENERS SHALL BE INSTALLED IN THE SPAN DIRECTION OF THE PLATE INDICATED ON THE DRAWINGS. SPAN DIRECTION IS THE SHORT DIRECTION UNLESS OTHERWISE NOTED.
5. WIDTH OF FLOOR PLATE SHALL BE 3'-0" MAXIMUM. PLATE SECTIONS OVER STOP GATES SHALL BE 1'-0" WIDTH AND CENTERED OVER STOP GATE.
6. SUPPORT SCHEDULE:
   6.1 UNLESS OTHERWISE NOTED, USE SUPPORT 1
   6.2 SUPPORT 2 - INTERMEDIATE BEAM SUPPORT
   6.3 SUPPORT 3 - CONCRETE BEAMS AND EXISTING CONCRETE FLUSH WITH THE FLOOR PLATE
7. OVERSIZE FASTENER HOLES IN PLATE 1/8" MIN TO ALLOW THERMAL MOVEMENTS

FLOOR PLATE (NON GAS TIGHT) SUPPORT III

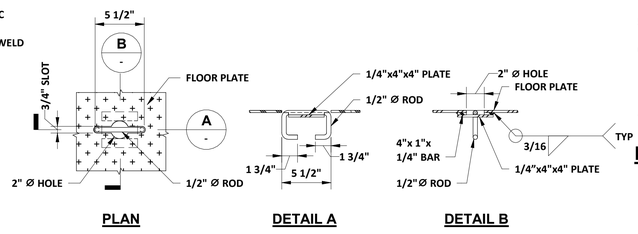
NTS



NOTES:
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2. ALL FLOOR PLATES SHALL BE CONSIDERED NON GAS TIGHT UNLESS SPECIFICALLY INDICATED AS GAS TIGHT ON THE DRAWINGS.
3. HINGE REQUIRED ONLY WHERE INDICATED ON DRAWINGS.
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   6.3 SUPPORT 3 - CONCRETE BEAMS AND EXISTING CONCRETE FLUSH WITH THE FLOOR PLATE
7. APPLY POLYAMIDE EPOXY PRIMER BETWEEN CONTACTING STAINLESS STEEL AND ALUMINUM SURFACES
8. DETAIL APPLIES TO LOCATIONS WITH AND WITHOUT HATCHES
9. OVERSIZE FASTENER HOLES IN PLATE 1/8" MIN TO ALLOW THERMAL MOVEMENTS.

FLOOR PLATE (NON GAS TIGHT) SUPPORT II

NTS



PLAN

DETAIL A

DETAIL B

NOTES:
1. PROVIDE 2 LIFT HANDLES FOR EACH PLATE SECTION. HANDLES SHALL BE CENTERED ON THE PLATE OR OTHERWISE LOCATED SUCH THAT THE PLATE SECTION IS BALANCED WHILE BEING LIFTED.
2. MATERIALS OF CONSTRUCTION AS INDICATED ON THE DRAWINGS.

FLOOR PLATE LIFT HANDLES NON GAS TIGHT

NTS

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

TYPICAL STRUCTURAL DETAILS VII

STATE OF LOUISIANA — RYAN CYR — License No. 46829 — PROFESSIONAL ENGINEER
4/25/2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163	DESIGNED BY: J.KELLOGG
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

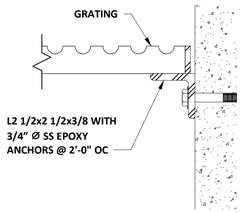
DR. A.NESBIT	
TRC. -	
CK. J.KELLOGG	
AP. R.CYR	
SCALE: AS NOTED	
DATE: APRIL 2025	

S-99-506

DWG. No. 12221-W-33

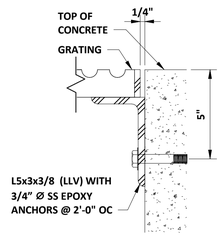
SET NO. | SHEET NO. 37 of 92

Autodesk Docs://LA-NewOrleans- 21163-EastBank-STP-Phase(21163-SM-NotesandDetails.rvt



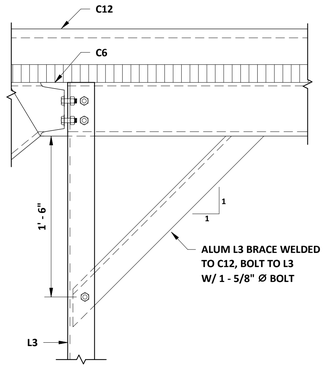
NOTES:
1. MATERIAL (ALUMINUM OR STEEL) AS INDICATED ON DRAWINGS.
2. ANGLE SEAT FRAME SHALL BE CONTINUOUS ON ALL SIDES OF THE OPENING. ANGLE FRAME TO BE MITERED AND WELDED AT CORNERS ON BACK SIDE, GRIND SMOOTH. ANGLE SEAT SHALL BE AS FOLLOWS WITH THE VERTICAL LEG CUT TO FIT.
   2.A. L2x2x1/4 (1 3/4" THICK GRATING AND SMALLER)
   2.B. L2 1/2x2x1/4 (GRATING GREATER THAN 1 3/4" THICK)
3. SUPPORT SCHEDULE
   3.A. UNLESS OTHERWISE NOTED USE SUPPORT 1
   3.B. SUPPORT 2 - CONTINUOUS VERTICAL WALLS (EXISTING AND NEW)
   3.C. SUPPORT 3 - CONCRETE BEAMS AND EXISTING CONCRETE FLUSH W/ THE GRATING
4. GRATING SEATS SHALL BE PROVIDED FOR BOTH LOAD BEARING AND NON-LOAD BEARING EDGES OF GRATING.

GRATING SEAT DETAIL SUPPORT II
NTS

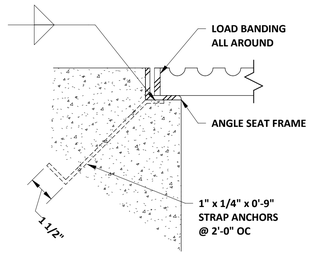


NOTES:
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GRATING SEAT DETAIL SUPPORT III
NTS

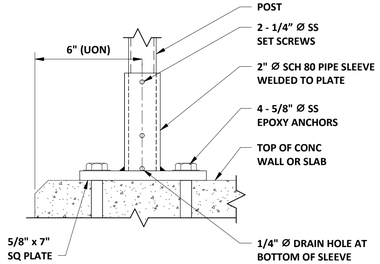


STEEL TYPICAL KNEE BRACE DETAIL
NTS



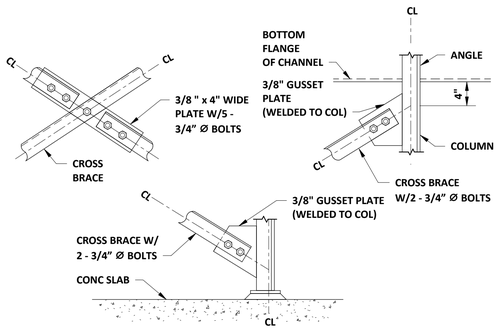
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2. ANGLE SEAT FRAME SHALL BE CONTINUOUS ON ALL SIDES OF THE OPENING. ANGLE FRAME TO BE MITERED AND WELDED AT CORNERS ON BACK SIDE, GRIND SMOOTH. ANGLE SEAT SHALL BE AS FOLLOWS WITH THE VERTICAL LEG CUT TO FIT.
   2.A. L2x2x1/4 (1 3/4" THICK GRATING AND SMALLER)
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   3.A. UNLESS OTHERWISE NOTED USE SUPPORT 1
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   3.C. SUPPORT 3 - CONCRETE BEAMS AND EXISTING CONCRETE FLUSH W/ THE GRATING
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GRATING SEAT DETAILS SUPPORT I
NTS



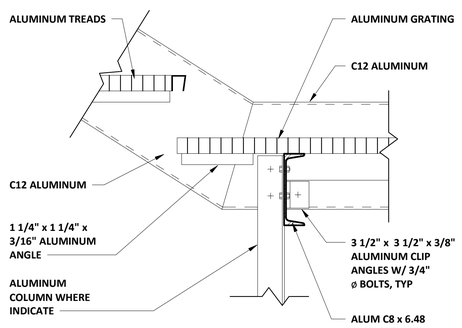
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GUARD POST BASE CONNECTION (CONCRETE SUPPORT) TOP MOUNTED
NTS

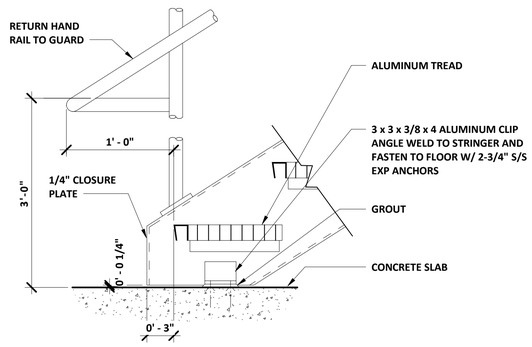


NOTE: DETAILS ARE APPLICABLE FOR ALL STAIRS AND PLATFORMS. REFER TO DRAWINGS FOR ALL SIZES AND MATERIALS

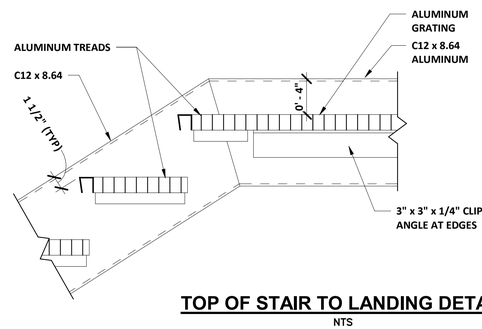
PLATFORM CROSS BRACING DETAILS
NTS



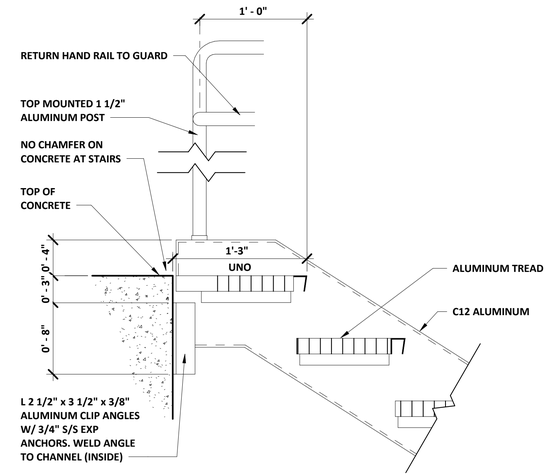
BASE OF STAIR TO LANDING DETAIL
NTS



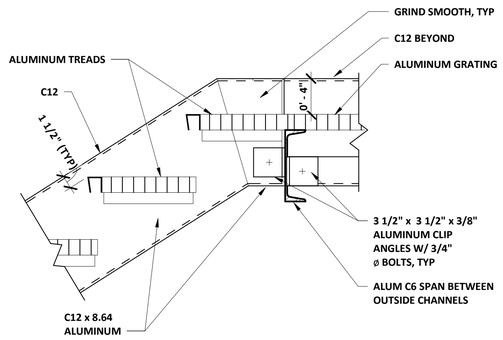
GRATED BASE OF STAIR TO CONCRETE SLAB DETAIL
NTS



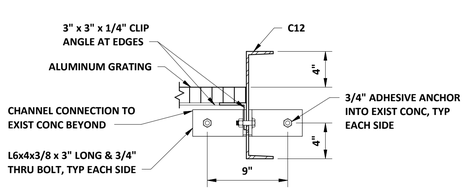
TOP OF STAIR TO LANDING DETAIL
NTS



TOP OF STAIR TO CONCRETE SLAB DETAIL
NTS

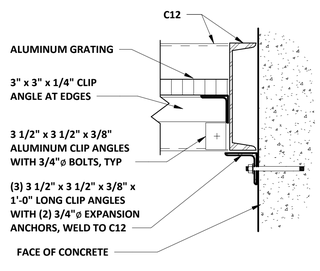


TOP OF STAIR TO LANDING DETAIL
NTS

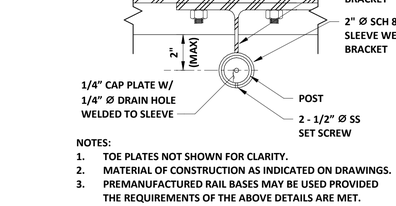


NOTE: SUBSTITUTE L6x4 WITH BENT PLATE MATCHING EXIST CONC SURFACE WHERE INDICATED.

GRATING EDGE DETAIL
NTS

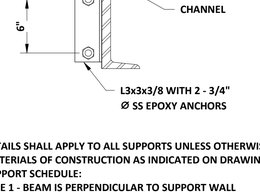


LANDING MOUNTING DETAIL
NTS



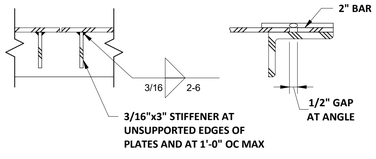
NOTES:
1. TOE PLATES NOT SHOWN FOR CLARITY.
2. MATERIAL OF CONSTRUCTION AS INDICATED ON DRAWINGS.
3. PREMANUFACTURED RAIL BASES MAY BE USED PROVIDED THE REQUIREMENTS OF THE ABOVE DETAILS ARE MET.

GUARD POST BASE CONNECTION (METAL SUPPORT) SIDE MOUNTED
NTS



NOTES:
1. DETAILS SHALL APPLY TO ALL SUPPORTS UNLESS OTHERWISE NOTED.
2. MATERIALS OF CONSTRUCTION AS INDICATED ON DRAWINGS.
3. SUPPORT SCHEDULE:
   TYPE 1 - BEAM IS PERPENDICULAR TO SUPPORT WALL
   TYPE 2, 3 - BEAM IS PARALLEL TO SUPPORT WALL

GRATING AND FLOOR PLATE SUPPORT BEAM CONNECTION TYPE I
NTS



DETAIL AT PLATE EDGE

FLOOR PLATE (NON GAS TIGHT) DETAIL AT PLATE EDGE
NTS

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

TYPICAL STRUCTURAL DETAILS VIII

STATE OF LOUISIANA — RYAN T. CYR — License No. 46829 — PROFESSIONAL ENGINEER
4/25/2025

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PROJECT NO: 21163	DESIGNED BY: J.KELLOGG
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

DR. A.NESBIT	
TRC. -	
CK. J.KELLOGG	
AP. R.CYR	
SCALE: AS NOTED	
DATE: APRIL 2025	SET NO.

S-99-507
DWG. No. 12221-W-33
SHEET NO. 38 of 92

LAST SAVED BY: BREANNA.ELLIOTT 4/2/2025 9:55 AM

PROCESS GENERAL NOTES

1. ALL EQUIPMENT AND PIPING LAYOUT DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH EQUIPMENT SUPPLIED, AND/OR EXISTING CONDITIONS. SOME INFORMATION ASSOCIATED WITH EXISTING STRUCTURES, PIPING AND EQUIPMENT LOCATIONS, ELEVATIONS AND SIZES, WERE TAKEN FROM EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION OF NEW FACILITIES, EQUIPMENT OR PIPING THAT MAY BE AFFECTED. IN SOME SPECIFIC INSTANCES, WHERE SPECIAL ATTENTION MAY BE REQUIRED BY THE CONTRACTOR; SOME DIMENSIONS, ELEVATIONS, ETC. HAVE BEEN NOTED WITH AN " * ". THIS DOES NOT HOWEVER, LIMIT THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND COORDINATE ALL NECESSARY INFORMATION FOR CONSTRUCTION.
2. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DIMENSIONS, LAYOUT OR ELEVATION CHANGES REQUIRED TO SUIT THE SPECIFIC EQUIPMENT BEING PROVIDED UNDER THIS CONTRACT. WHEN SUCH EQUIPMENT REQUIRES PADS, PIERS, CURBING, ETC., THAT DIFFERS FROM THAT SHOWN ON THE CONSTRUCTION DRAWINGS, THE CONTRACTOR SHALL COORDINATE THE STEEL REINFORCING SHOP DRAWINGS ACCORDINGLY.
3. ALL BURIED CONNECTIONS TO STRUCTURES, INCLUDING BUT NOT LIMITED TO THE PRIMARY SEDIMENTATION BASINS, EFFLUENT CHANNEL, SECONDARY CLARIFIERS, AND SOLIDS HANDLING BUILDING, SHALL HAVE SLEEVE TYPE FLEXIBLE CONNECTIONS APPROXIMATELY 4-FEET FROM THE STRUCTURES. ALL SLEEVE TYPE COUPLINGS ON PRESSURE LINES SHALL BE RESTRAINED (SOLID SLEEVE TYPE). REFER TO SPECIFICATION SECTION 15088.
4. ALL PIPING INSTALLED BELOW SLABS-ON-GROUND SHALL BE ENCASED IN CONCRETE (EXCLUDING DRAINS/SEWERS UNDER NON-STRUCTURAL SLABS-ON-GROUND), UNLESS OTHERWISE NOTED. PROCESS DRAWINGS DO NOT SHOW CONCRETE ENCASEMENT FOR CLARITY. SEE STRUCTURAL DRAWINGS FOR DETAILS.
5. PROVIDE CAST OR DUCTILE IRON WALL PIPE CASTINGS OR GALVANIZED STEEL PIPE SLEEVES FOR ALL PIPE PENETRATIONS MADE THROUGH NEW CONCRETE WALLS AND SLABS, UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WALL SLEEVES AND WALL PIPE CASTINGS SHALL HAVE SEALING/ANCHORING COLLARS. SEE PROCESS, MECHANICAL, AND STRUCTURAL DRAWINGS FOR LOCATIONS OF PENETRATIONS. NOTE THAT NOT ALL PIPE PENETRATIONS ARE SHOWN ON THE STRUCTURAL DRAWINGS. NEW PENETRATIONS THROUGH EXISTING STRUCTURE WALLS AND SLABS SHALL BE BY CORING MACHINE AND LINK TYPE COMPRESSION SEALS, UNLESS OTHERWISE INDICATED. OPENINGS TO BE COMPATIBLE WITH REQUIRED PIPING AND STANDARD LINK TYPE COMPRESSION SEAL SIZES. FOR ADDITIONAL INFORMATION, REFER TO SPECIFICATION SECTION 15092.
6. FOR PIPING MATERIAL, SEE THE PIPE SCHEDULE IN SPECIFICATION SECTION 15050.
7. WHERE 90-DEGREE BENDS ARE USED ON SLUDGE, GRIT, SEPTAGE AND SCUM LINES THEY SHALL BE LONG RADIUS TYPE, EXCEPT WHERE DIMENSIONAL CONSTRAINTS NECESSITATE THE USE OF STANDARD BENDS. THESE EXCEPTIONS SHALL BE SUBJECT TO ENGINEER'S REVIEW AND ACCEPTANCE.
8. ALL LIQUID TYPE FLOW ELEMENTS SHALL BE LOCATED A MINIMUM OF FIVE PIPE DIAMETERS DOWNSTREAM AND THREE DIAMETERS UPSTREAM OF ANY HYDRAULIC DISTURBANCE, EXCEPT IN SITUATIONS WHERE DIMENSIONAL CONSTRAINTS PRECLUDE THESE SEPARATION DISTANCES. IN THESE CASES, THE ENGINEER WILL REVIEW THE LAYOUT AND PROVIDE REVISED MINIMUM SEPARATION DISTANCES.
9. ALL BLIND FLANGES ON SCUM, SLUDGE, AND SUPERNATANT LINES SHALL HAVE A 1-1/2-INCH BALL VALVE AND AN ATTACHMENT FOR FLUSHING WITH PLANT WATER, UNLESS OTHERWISE NOTED. GRIT LINES AND SOME SEPTAGE, SCUM, AND SLUDGE LINES SHALL BE HARD PIPED WITH PLANT WATER FOR FLUSHING, WHERE INDICATED ON THE DRAWINGS. REFER TO SPECIFICATION SECTION 15200.
10. PROVIDE DRIP PANS, WITH CENTRAL COLLECTION POINT AND DRAIN TO FLOOR, FOR ELECTRICAL AND INSTRUMENTATION EQUIPMENT LOCATED BENEATH LIQUID CARRYING PIPES.
11. ALL PROCESS AND PLANT WATER HOSE BIBBS SHALL BE PROVIDED WITH A HOSE RACK AND HOSE, ALONG WITH A SIGN INDICATING "NOT SUITABLE FOR DRINKING". FOR ADDITIONAL HOSE BIBB AND HOSE RACK INFORMATION, SEE SPECIFICATION SECTION 15200 AND DRAWINGS.
12. INSTALL CORPORATION COCKS ON ALL BUILDING AND STRUCTURE INTERIOR PIPING HIGH POINTS TO PREVENT AIR BINDING. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT NUMBER AND LOCATIONS OF THESE CORPORATION COCKS BASED UPON INFORMATION DEPICTED ON DRAWINGS AND ACTUAL FIELD ROUTING OF PIPING. REVIEW LOCATIONS WITH ENGINEER BEFORE INSTALLATION. THESE MANUAL AIR RELEASES SHALL INCLUDE A 1/2-INCH BRASS CORPORATION COCK WITH 1/2-INCH COPPER TUBING ADEQUATELY SUPPORTED, EXTENDING TO A LOCAL AREA DRAIN. ROUTING OF TUBING AND SELECTED DRAIN TO BE REVIEWED WITH, AND ACCEPTED BY, ENGINEER.
13. PIPES 3-INCH IN DIAMETER AND UNDER SHALL HAVE UNIONS INSTALLED ADJACENT TO EQUIPMENT AND TANKS, UNLESS OTHERWISE NOTED ON DRAWINGS. FLANGES ARE ACCEPTABLE ON 3-INCH DIAMETER PIPING.
14. ALL PIPES SHALL BE ADEQUATELY RESTRAINED AND SUPPORTED IN ACCORDANCE WITH SPECIFICATION SECTION 15094.
15. AFTER INSTALLATION, ALL PIPELINES SHALL BE PRESSURE TESTED FOR TIGHTNESS IN ACCORDANCE WITH SPECIFICATION SECTION 15050. ALL LEAKS SHALL BE CORRECTED AND RETESTED UNTIL PRESSURE TEST IS SATISFACTORILY COMPLETED.
16. ALL PIPING SHALL BE CLEANED, TO THE SATISFACTION OF THE ENGINEER, BEFORE TESTING.
17. PROVIDE 4-INCH HIGH (MIN.) REINFORCED CONCRETE PAD UNDER ALL EQUIPMENT, CONTROL PANELS, PIPE AND EQUIPMENT SUPPORTS, TANKS, ETC. UNLESS OTHERWISE INDICATED.
18. REFER TO SPECIFICATION SECTION 01070 AND DRAWING PR-00-002 FOR A LISTING OF COMMONLY USED ABBREVIATIONS.
19. ALL PLANT WATER AND PROCESS WATER PIPING IN THE BELT FILTER PRESS AREA AND RAS PUMP STATIONS, ARE TO BE INSULATED AND PROVIDED WITH A PVC JACKET, IN ADDITION TO OTHER PIPING INSULATION CALLED FOR IN SPECIFICATION SECTION 15180.
20. ALL REDUCERS SHALL BE CONCENTRIC TYPE UNLESS DESIGNATED AS ECCENTRIC (ECC) ON THE DRAWINGS. ECCENTRIC REDUCERS SHALL BE INSTALLED WITH FLAT SIDE UP.
21. FLEXIBLE CONNECTIONS ON AIR LINES ARE TO BE PROVIDED WHERE SHOWN ON THE DRAWINGS; AND AS REQUIRED FOR EXPANSION/CONTRACTION, AS REQUIRED BY THE MANUFACTURER.
22. ALL PENETRATIONS BETWEEN CLASS 1, DIVISION 1 AND DIVISION 2 AREAS AND UNCLASSIFIED AREAS SHALL BE GAS TIGHT.
23. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL FURNISH, AND INSTALL ADAPTERS, FITTINGS AND ADDITIONAL PIPE AS REQUIRED TO COMPLETE THE INSTALLATION. THE USE OF UNI-FLANGES WILL NOT BE ALLOWED UNLESS INDICATED ON THE DRAWINGS.
24. ALL STAINLESS STEEL FASTENERS FOR PIPING, EQUIPMENT, SUPPORTS, ETC., SHALL BE HAND TIGHTENED IN ORDER TO LIMIT THE POTENTIAL FOR GALLING.
25. CONTRACTOR TO NOTE THAT ALL EXISTING INFORMATION ON THE DRAWINGS IS SHOWN WITH A LIGHTER LINE WEIGHT AND INDICATED WITH A SLANTED TYPE TEXT. THE EXCEPTION IS WHEN SCANNED IMAGES ARE UTILIZED FROM THE PREVIOUS CONSTRUCTION PROJECTS NOTED IN GENERAL NOTE NO. 1, ABOVE. WHEN REVIEWING DRAWINGS NOTED AS "SCANNED" UNDER DRAWING TITLE, THE CONTRACTOR SHALL IGNORE ANY REFERENCE TO PREVIOUS CONTRACT WORK. SCANNED IMAGES ARE NOT TO SCALE; HOWEVER, AN APPROXIMATE SCALE MAY BE GIVEN FOR CONVENIENCE.
26. CONTRACTOR SHALL COORDINATE INSTRUMENTATION MOUNTING DETAILS WITH THE INSTRUMENTATION SUPPLIER AND THE ELECTRICAL CONTRACTOR. REFER TO DETAILS ON THE INSTRUMENTATION DRAWINGS, AND/OR EQUIPMENT MANUFACTURER MOUNT DETAILS AND REQUIREMENTS.
27. ALL FIXED WEIRS MUST BE LEVELED TO WITHIN 0.005-FEET OF THE ELEVATIONS INDICATED ON THE DRAWINGS. CONTRACTOR SHALL SURVEY THE WEIRS TO CONFIRM LEVEL TOLERANCES ALONG THE ENTIRE WEIR LENGTH AT INTERVALS NO GREATER THAN 5-FEET. CONTRACTOR SHALL CONFIRM THE LEVEL TOLERANCE BY FILLING THE STRUCTURE WITH WATER TO THE LEVEL OF THE WEIR. WEIRS WHICH DO NOT MEET TOLERANCE SHALL BE ADJUSTED AT NO ADDITIONAL COST TO THE OWNER.
28. ALL CHECK VALVES SHALL BE SWING TYPE CHECK VALVES UNLESS SPECIFICALLY CALLED OUT ON THE DRAWINGS.
29. PHOTO TAGS, AS SHOWN ON THE PLAN, INDICATE THE LOCATION AND DIRECTION FROM WHICH THE PHOTO WAS TAKEN.



30. ALL LUBRICATION FITTINGS SHALL BE BROUGHT TO LOCATIONS THAT ARE READILY ACCESSIBLE TO OPERATORS. REFER TO SPECIFICATION SECTION 11000 FOR ADDITIONAL REQUIREMENTS.
31. DO NOT SCALE DISTANCES OR DIMENSIONS FROM THE DRAWINGS. WRITTEN DIMENSIONS SHALL PREVAIL. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
32. THREE-DIMENSIONAL MODELS INTENDED TO SUPPLEMENT VISUALIZING DESIGN INTENT. IN THE EVENT OF DISCREPANCIES OR DIFFERENCES, DIMENSIONS AND DETAILS SHOWN IN THE TWO-DIMENSIONAL ORTHOGRAPHIC DRAWINGS SHALL SUPERSEDE THOSE SHOWN OR INTERPRETED FROM THE THREE-DIMENSIONAL MODELS/PERSPECTIVES PROVIDED.
33. IT IS IMPORTANT TO NOTE THAT THESE MODELS HAVE BEEN DEVELOPED USING A 3D PIPING PACKAGE. IN ORDER TO PRESERVE THE 2D DESIGN MODEL, IN MANY INSTANCES THE SYMBOLS DEPICTING VALVES AND EQUIPMENT DO NOT NECESSARILY PORTRAY THE ACTUAL EQUIPMENT SPECIFIED IN THE SPECIFICATIONS. MOST NOTABLY, FOR INSTANCES, WOULD BE THE VALVE OPERATORS AND THE DESIRED ORIENTATION. THE SPECIFICATIONS WILL PREVAIL AND THE VALVES SHOWN WITHIN THE DRAWING SET SHOULD BE CONSIDERED PURELY SYMBOLIC.
34. PROVIDE SOLID SLEEVE TYPE COUPLINGS AS SHOWN ON THE DRAWINGS. ALL SLEEVE TYPE COUPLINGS ON PRESSURE LINES SHALL BE RESTRAINED WITH 316 STAINLESS STEEL RODS AND HARDWARE. REFER TO SPECIFICATION SECTION 15088 FOR ADDITIONAL INFORMATION.

GENERAL DEMOLITION NOTES

1. REFER TO INDIVIDUAL DRAWINGS FOR SPECIFIC DEMOLITION NOTES.
2. INDICATES EXISTING PIPING/EQUIPMENT TO REMAIN FOR RE-USE.
   INDICATES EXISTING PIPING/EQUIPMENT TO BE DEMOLISHED.
   INDICATES EXISTING PIPING/EQUIPMENT TO BE RELOCATED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL DEMOLISHED PIPING, EQUIPMENT AND MATERIALS. THE OWNER RESERVES THE RIGHT TO RETAIN PIPING, EQUIPMENT AND/OR MATERIALS ON SITE FOR THEIR USE AS SPECIFIED IN SPECIFICATION SECTION 02050. SUCH MATERIAL TO BE RETAINED SHALL BE PLACED IN AN ON-SITE STORAGE AREA, REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO THE OWNER AND ENGINEER. RETAINED EQUIPMENT SHALL BE REMOVED IN SUCH A WAY AS NECESSARY TO MAINTAIN ITS FUNCTIONAL AND PHYSICAL INTEGRITY.
4. THE CONTRACTOR SHALL KEEP A RECORD OF DEMOLITION AND LOCATION OF UTILITIES FOUND AS PART OF THE PROJECT RECORD DOCUMENTS, AS SPECIFIED IN SPECIFICATION SECTION 01720.
5. REFER TO THE DEMOLITION SPECIFICATION SECTION 02050, SUMMARY OF WORK SPECIFICATION SECTION 01010, AND SITE DEMOLITION DRAWING FOR ADDITIONAL INFORMATION REGARDING DEMOLITION REQUIREMENTS AND CONSTRUCTION SEQUENCING.
6. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING EXISTING UTILITIES. THE SIZES, LOCATIONS, AND MATERIALS OF CONSTRUCTION INDICATED ARE FROM THE BEST AVAILABLE INFORMATION AND MAY NOT BE COMPLETE OR ACCURATE. ALL SIZES, LOCATIONS, AND MATERIALS OF CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD AS REQUIRED. ALL EXISTING UTILITIES THAT ARE TO REMAIN, AND ARE DAMAGED BY THE CONTRACTORS ACTIVITIES, SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
7. SEVERING THE EXISTING UTILITIES FOR ABANDONMENT, OR REMOVAL OF A SEGMENT FROM SERVICE, SHALL BE PERFORMED IN SUCH A MANNER AS TO ALLOW THE REMAINING ACTIVE SEGMENT TO CONTINUE IN ITS INTENDED SERVICE. CAP ACTIVE SEGMENTS WITH APPROPRIATE FITTING, JOINT RESTRAINT, ETC. TO ENSURE THEIR INTEGRITY. THE METHOD OF CAPPING SHALL BE REVIEWED WITH, AND ACCEPTABLE TO, THE ENGINEER.
8. ALL PIPING, EQUIPMENT AND MATERIALS TO BE DEMOLISHED AND/OR REMOVED FROM SERVICE MUST BE COORDINATED WITH THE OWNER AND ENGINEER BEFOREHAND.
9. THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO ENSURE THAT ALL FLOWS, FLOW METERING AND LEVEL CONTROLS ARE MAINTAINED DURING CONSTRUCTION. GRAVITY, PUMPED BYPASSES OR OTHER MEANS OF FLOW MAINTENANCE SHALL BE REVIEWED WITH, AND ACCEPTABLE TO, THE ENGINEER. THE CONTRACTOR SHALL COORDINATE ANY TEMPORARY STOPPAGES WITH THE OWNER AND ENGINEER. CONTRACTOR SHALL VERIFY WITH OWNER/ENGINEER ALL VALVES, GATES, EQUIPMENT, ETC., ARE FUNCTIONAL PRIOR TO ASSUMING UTILIZATION FOR FLOW ISOLATION.
10. WHERE PIPING OR CONDUIT THAT IS TO BE REMOVED PASSES THROUGH THE WALL OF THE STRUCTURE, IT SHALL BE CUT OFF AS NEAR TO THE WALL AS PRACTICAL AND PROPERLY SEALED ON EACH SIDE OF THE WALL, OR AS SHOWN ON THE DRAWINGS. SEAL METHOD SHALL BE SUBJECT TO REVIEW AND ACCEPTANCE OF THE ENGINEER.
11. ALL WALL AND/OR FLOOR PENETRATIONS REMAINING AFTER THE REMOVAL OF PIPING OR CONDUIT ARE TO BE PATCHED AND FINISHED FLUSH TO MATCH EXISTING SURFACES.
12. REMOVE ALL PUMP AND EQUIPMENT PADS NOT BEING RE-USED AND FINISH FLUSH TO FLOOR LEVEL.
13. REMOVE ALL WALL BRACKETS, PIPE HANGERS AND PIPE SUPPORTS NOT BEING RE-USED. PATCH BOLT HOLES TO MATCH THE EXISTING SURFACE.
14. ALL WALL AND FLOOR SURFACES DAMAGED OR DISTURBED AS A RESULT OF DEMOLITION BY THE CONTRACTOR OR ITS SUB-CONTRACTORS, SHALL BE PATCHED AND PAINTED PER SPECIFICATION SECTION 09900.
15. WHERE PIPING AND/OR EQUIPMENT THAT IS NOTED AS ABANDONED INTERFERES WITH THE CONTRACTOR'S CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL REMOVE AND DISPOSE OF AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
16. ALL ANCHOR BOLTS TO BE REMOVED SHALL BE CUT/MELTED TO A MINIMUM OF 3/4-INCH BELOW EXISTING CONCRETE OR MASONRY SURFACES AND PATCHED/FILLED FLUSH TO SURFACE WITH NON-SHRINK GROUT.

GENERAL CHEMICAL SCHEMATIC NOTES

1. REFER TO PROCESS GENERAL NOTES ON THIS DRAWING FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR SHALL FIELD LOCATE/ROUTE ALL PIPING, EQUIPMENT AND APPURTENANCES AS REQUIRED TO ENSURE A FULLY FUNCTIONAL AND INTEGRATED CHEMICAL FEED SYSTEM AS SPECIFIED. CONTRACTOR MUST REVIEW THE PROPOSED CHEMICAL FEED SYSTEM LAYOUT WITH THE ENGINEER AND OWNER IN THE FIELD PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL COORDINATE TUBING SIZES AS REQUIRED FOR CONNECTIONS TO PUMPS AND ANALYZERS. PROVIDE REDUCERS, FITTINGS AND OTHER APPURTENANCES AS REQUIRED, AT NO ADDITIONAL COST TO THE OWNER.
4. PROVIDE PUMP SUCTION AND DISCHARGE PULSATION DAMPENERS WHERE REQUIRED BY THE EQUIPMENT MANUFACTURER, AND WHEN SPECIFIED OR SHOWN ON THE DRAWINGS.
5. CHEMICAL FEED PIPING SHALL BE INSTALLED IN SUCH A WAY AS TO ALLOW EQUIPMENT ACCESS AND SPACE FOR MAINTENANCE. PROVIDE PIPE GUARDS TO PROTECT PIPING FROM PHYSICAL DAMAGE WHERE, IN THE OPINION OF THE ENGINEER, THE POTENTIAL FOR DAMAGE EXISTS. PROTECTION SYSTEM SHALL BE CORROSION RESISTANT.
6. THE SYSTEM SCHEMATICS DO NOT SHOW ALL UNIONS. HOWEVER, CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT UNIONS TO PERMIT THE REMOVAL OF EQUIPMENT, VALVES AND OTHER SYSTEM APPURTENANCES FOR MAINTENANCE.
7. FIELD LOCATE CALIBRATION COLUMN SUCH THAT TOP OF COLUMN ELEVATION IS NO HIGHER THAN LIQUID LEVEL IN THE STORAGE TANKS WHEN HALF FULL.
8. REFER TO INSTRUMENTATION DRAWING I-00-001 FOR INSTRUMENTATION ABBREVIATIONS, LEGEND AND NOTES AND OTHER ADDITIONAL REQUIREMENTS.
9. PROVIDE CHEMICAL NAME PLATE IDENTIFICATION ON ALL FILL LINES AS SPECIFIED AND AS SHOWN ON THE DRAWINGS.
10. PROVIDE BACK PRESSURE VALVES AT DISCHARGE LOCATIONS WHERE NECESSARY TO POSITIVELY STOP CHEMICAL FLOW WHEN PUMPS STOP.

REV.	DATE	DESCRIPTION	BY
3			
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
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4/30/2025

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PROCESS NOTES

DR. A.COUTURE	PR-00-001
TRC. -	
CK. D.STILES	
PROJECT NO: 21163	DESIGNED BY: W.EDGERTON
AP. S.HALLOWELL	DWG. No. 12221-W-33
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025
SET NO.	SHEET NO. 39 of 92

J:\ENGLA\NEWORLEANS\21163-EASTBANKSTP PHASE_I_WW_IMPROVEMENTS_DRAWINGS\PHASE-1A\PRO\21163-PRS-GENERALNOTES.DWG | ProcessNotes | 1:10.1236477 | — | 4/25/2025 10:36:01 AM | ADAM.COUTURE

LAST SAVED BY: ADAM.COUTURE 6/6/2024 5:20 PM

VALVES

	SCHEMATIC	ORTHOGRAPHIC
3-WAY VALVE		
BACKPRESSURE VALVE (BPV)	BPV	
BALL VALVE (BV)		
BALL CHECK VALVE (BCV)		
BUTTERFLY VALVE (BFV)		
CHECK VALVE (CKV)		
DIAPHRAGM VALVE (DFV)		
DOUBLE DISC CHECK VALVE (DDCV)		
DUCK-BILL TYPE CHECK VALVE (DCKV)		
GATE VALVE (GV)		
GLOBE VALVE (GBV)		
KNIFE GATE VALVE (KV)		
MUD VALVE (MDV)		
NEEDLE VALVE (NV)		
PINCH VALVE (PCHV)		
PLUG VALVE (PV)		
PRESSURE REDUCING VALVE (PRV)	PRV	
PRESSURE SAFETY (RELIEF) VALVE (PSV)	PSV PSV	
SURGE ANTICIPATION VALVE (SAV)	SAV	
SURGE RELIEF VALVE (SRV)	SRV	
TELESCOPING VALVE (TELV)	T	
VACUUM RELIEF VALVE (VRV)	V V	
VOLUME DAMPER (VD)	VD	

FITTINGS/APPURTENANCES

- BACKFLOW PREVENTER (RPZ)
- BARBED FITTING
- CALIBRATION COLUMN
- DIAPHRAGM SEAL
- EXPANSION JOINT *(air or liquid)*
- HOSE BIBB (HB, HBF, OR HBW) — HB | HBF | HBW
- QUICK DISCONNECT
- REDUCER (CONCENTRIC)
- REDUCER (ECCENTRIC)
- ROTAMETER
- SLEEVE COUPLING
- STRAINER (DUPLEX) — D
- STRAINER (SIMPLEX) — S
- UNION
- WYE STRAINER

ACTUATORS

- CONTROL ACTUATOR — M
- LIMIT SWITCH — LS
- PNEUMATIC DIAPHRAGM ACTUATOR
- PNEUMATIC/HYDRAULIC CYLINDER
- PNEUMATIC/HYDRAULIC CYLINDER (spring return) — S
- SOLENOID ACTUATOR

LINETYPES

	EXISTING	NEW
MAIN PROCESS FLOW PATH		
STORAGE/BYPASS FLOW		
STRUCTURES		
EQUIPMENT/PIPING		
FUTURE EQUIPMENT/PIPING		
AIR - COMPRESSED	//	//
AIR - LOW PRESSURE		
HYDRAULIC		
HEAT TRACE/INSUL/JACKETING		

EQUIPMENT

SCHEMATIC PUMPS

- AIR DIAPHRAGM PUMP
- CENTRIFUGAL PUMP
- CHEMICAL METERING PUMP
- CHEMICAL TRANSFER PUMP
- DOUBLE DISK PUMP
- HOSE PUMP
- PLUNGER PUMP
- PROGRESSIVE CAVITY PUMP
- ROTARY LOBE PUMP
- SCREW PUMP
- SUBMERSIBLE PUMP
- VERTICAL TURBINE PUMP

SCHEMATIC BLOWERS

- BLOWER - CENTRIFUGAL
- BLOWER - POSITIVE DISPLACEMENT
- COMPRESSOR

SCHEMATIC MISCELLANEOUS

- AIR INTAKE FILTER
- CONVEYOR - SCREW
- GRINDER
- MIXER — OR
- MIXER - INLINE STATIC
- MIXING - COMPRESSED AIR — OR
- MOTOR — M

SCHEMATIC GATES

- SHEAR GATE — SG
- SLIDE GATE — SLD-XXX
- SLUICE GATE — SLG-XXX
- STOP GATE — STG-XXX
- WEIR *(straight, compound, or "v-notch weir")* — FW-XXX

FIELD INSTRUMENTS

FOR ADDITIONAL INFORMATION REFER TO INSTRUMENTATION DWG I-1

INSTRUMENTS

- FIELD PIPE MOUNTED DEVICE — XX / XXX
- FIELD MOUNTED DEVICE — LE XX / XXA
- BUBBLE LIQUID ELEMENT — XX / XXX
- CAPACITANCE OR ADMITTANCE TYPE PROBE — XX / XXX
- FLOAT SWITCH — XX / XXX
- GUIDED WAVE RADAR — XX / XXX
- PADDLE OR LEVER TYPE PROBE — XX / XXX
- RADAR LEVEL TRANSDUCER — XX / XXX
- SUBMERSIBLE PRESSURE TRANSDUCER — XX / XXX
- ULTRASONIC LEVEL TRANSDUCER — XX / XXX

PROVIDED BY EQUIPMENT MANUFACTURER — LE XX / XXA M

- XX — ELEMENT TYPE (SEE TYPE LISTING BELOW)
- XXA — ELEMENT TYPE
- M — ELEMENT NUMBER

TYPICAL INSTRUMENTATION SYMBOL DESCRIPTION

TYPE LIST IDENTIFICATION

DO	DISSOLVED OXYGEN PROBE	P	PHOSPHORUS PROBE
NH3	AMMONIA PROBE	PC	PULL CHORD
NO2	NITRITE PROBE	PH	pH
NO3	NITRATE PROBE	TSS	TOTAL SUSPENDED SOLIDS PROBE

SCHEMATIC FLOW METER

- AVERAGING PITOT FLOW METER — FE-XXX
- MAGNETIC FLOW METER — FE-XXX / M
- ORIFICE PLATE
- PARSHALL FLUME — FE-XXX
- PITOT FLOW METER — FE-XXX
- THERMAL MASS FLOW METER — FE-XXX
- TURBINE FLOW METER — FE-XXX / M
- ULTRASONIC FLOW METER — FE-XXX
- VENTURI FLOW METER — FE-XXX

FLOW/CONTINUATION SYMBOLS

- CHEMICAL INJECTION — CHEMICAL IDENTIFICATION; XXX FROM PR-; CONTINUATION/ID TAG; XX; DRAWING NO.
- FLOW ARROW
- TO/FROM IN-CONTRACT PIPE OR PROCESS — CONTINUATION/ID TAG; # XX-#; FROM XXXX; XX-# #; DRAWING NO.; TO XXXX
- TO/FROM OUT-OF-CONTRACT PIPE OR PROCESS

PROCESS ABBREVIATIONS - GENERAL

AE	ANALYZING ELEMENT	EL (ELEV)	ELEVATION	HB	HOSE BIBB	NO	NUMBER	SAM	SAMPLE LINE
AL	ALUMINUM	ELL	ELBOW	HBF	HOSE BIBB FLUSHING	NPT	NATIONAL PIPE THREAD	SCH	SCHEDULE
ALT	ALTERNATE	EQUIP	EQUIPMENT	HBW	HOSE BIBB WASHDOWN	NTS	NOT TO SCALE	SECT	SECTION
BF	BLIND FLANGE	EXIST (EX)	EXISTING	HDPE	HIGH DENSITY POLYETHYLENE	NV	NEEDLE VALVE	SHT	SHEET
BLDG	BUILDING	EXP	EXPANSION	HP	HIGH POINT	OC	ON CENTER	SMH	SANITARY SEWER MANHOLE
BOT	BOTTOM	FC	FLUSHING CONNECTION	HYD	HYDRANT	OD	OUTSIDE DIAMETER	SP	SUMP PUMP
CAR	CARRIER PIPE	FD	FLOOR DRAIN	ID	INSIDE DIAMETER	ODOR	ODOR CONTROL DUCT	SPD	SUMP PUMP DISCHARGE
CI	CAST IRON	FE	FLOW ELEMENT	IND	INDUSTRIAL	OH	OVERHEAD	SQ	SQUARE
CIP	CLEAN-IN-PLACE	FFE	FINISHED FLOOR ELEVATION	INL	INLET	OUT	OUTLET	SS	STAINLESS STEEL
CO	CLEANOUT	FLG	FLANGE	INSTR	INSTRUMENT	PAC	POWDER ACTIVATED CARBON	STD	STANDARD
CON	CONTAINMENT PIPE	FLR	FLOOR	INV	INVERT	PCCP	PRESTRESSED CONCRETE CYLINDER PIPE	STL	STEEL
CONC	CONCRETE	FOT	FLAT ON TOP	JT	JOINT			THK	THICKNESS
CONT	CONTINUED	FP	FIRE PROTECTION	LE	LEVEL ELEMENT	PE	POLYETHYLENE OR PRESSURE ELEMENT	TK	TANK
CPL	COUPLING	FPHB	FROST PROOF HOSE BIBB	LR	LONG RADIUS			TYP	TYPICAL
DET	DETAIL	FRP	FIBERGLASS REINFORCED PLASTIC	MAX	MAXIMUM	PP	POLYPROPYLENE	UV	ULTRAVIOLET
DI	DUCTILE IRON	FS	FLOW SWITCH	MECH	MECHANICAL	PS	PRESSURE SWITCH	VERT	VERTICAL
DIA (Ø)	DIAMETER	FW	FIXED WEIR (WW)	MFG	MANUFACTURER	PVC	POLYVINYL CHLORIDE	WSE	WATER SURFACE ELEVATION
DIM	DIMENSION	GA	GAUGE	MH	MANHOLE	RCP	REINFORCED CONCRETE PIPE	XP	EXPLOSION PROOF
DMH	DRAIN MANHOLE	GAC	GRANULAR ACTIVATED CARBON	MIN	MINIMUM	RED	REDUCER	YH	YARD HYDRANT
DN	DOWN	GAL	GALLON	MJ	MECHANICAL JOINT	RES	RESIDUALS		
DWG	DRAWING	GALV	GALVANIZED	MTD	MOUNTED	REQ'D	REQUIRED		
ECC	ECCENTRIC	GR	GREASE	NIC	NOT IN CONTRACT	RD	ROOF DRAIN/ROOF DRAINAGE PIPING		

PROCESS ABBREVIATIONS - FLUID

A	AIR (LOW PRESSURE)	DGSL	DIGESTER SLUDGE	GTSL	GRAVITY THICKENER SLUDGE	PCI	PRIMARY CLARIFIER INFLUENT	SL	SLUDGE
AC	AIR (COMPRESSED)	DGSR	DIGESTER SLUDGE RECIRCULATION	HCL	HYDROCHLORIC ACID - HYDROGEN CHLORIDE GAS	PER	POTASSIUM PERMANGANATE	SPC	SUPPLEMENTAL CARBON (NOT METHANOL/ NOT XP)
AI	AIR (INSTRUMENT/PNEUMATIC)	DGST	DIGESTER SLUDGE TRANSFER			PHOS	PHOSPHATE		
ALUM	ALUMINUM SULFATE	DPOL	DILUTED POLYMER	HSL	HUMUS SLUDGE	POL	POLYMER (NEAT)	SPD	SUMP PUMP DISCHARGE
AM	AMMONIA SOLUTION	DR	DRAIN	HW	HOT WATER	PRW	PROCESS WATER (NON-POTABLE WATER)	SUL	SULFURIC ACID
ATE	AERATION TANK EFFLUENT	DSL	DEWATERING SLUDGE	HYP	SODIUM HYPOCHLORITE			SUP	SUPERNATANT
ATI	AERATION TANK INFLUENT	EFF	EFFLUENT (FINAL)	INF	INFLUENT	PSL	PRIMARY SLUDGE	SW	SEAL WATER
BIS	SODIUM BISULFITE	EFW	EFFLUENT FLUSHING WATER	IR	INTERNAL RECYCLE	PSLS	PRIMARY SLUDGE SAMPLE	TBSL	THICKENED BLENDED SLUDGE
BSL	BLENDED SLUDGE	F	FLUORIDE (SODIUM FLUORIDE)	ISS	INFLUENT SEWAGE SAMPLE	PTE	PRELIMINARY TREATMENT EFFLUENT	TE	TERTIARY EFFLUENT
BW	BACKWASH	FCE	FINAL CLARIFIER EFFLUENT	JW	JACKET WATER	PW	PLANT WATER	TFI	TRICKLING FILTER INFLUENT
BWW	BELT WASHWATER OR BACKWASH WASTE	FCI	FINAL CLARIFIER INFLUENT	KOH	POTASSIUM HYDROXIDE	REC	RECYCLE	TFE	TRICKLING FILTER EFFLUENT
CEN	CENTRATE	FECL	FERRIC CHLORIDE	LOX	LIQUID OXYGEN	REJ	REJECT WATER	TFR	TRICKLING FILTER RECIRCULATION
CIT	CITRIC ACID	FES	FINAL EFFLUENT SAMPLE	LS	LIME SLURRY	RSL	RETURN SLUDGE	TI	TERTIARY INFLUENT
CIW	CHLORINE INJECTOR WATER	FIL	FILTRATE	METH	METHANOL (XP)	RW	RAW WATER	TPSL	THICKENED PRIMARY SLUDGE
CLO2	CHLORINE DIOXIDE	FM	FORCE MAIN	ML	MIXED LIQUOR	S	SEWER	TSL	TERTIARY SLUDGE
CLS	CHLORINE SOLUTION (FROM CHLORINE GAS)	FSW	FOAM SPRAY WATER	MR	MICROSAND RECYCLE	SA	SODIUM ALUMINATE	TW	TEMPERED WATER
		FTW	FILTER TO WASTE	MS	MAGNESIUM HYDROXIDE SLURRY	SAN	SANITARY WASTE	TWSL	THICKENED WASTE SLUDGE
CO2	CARBON DIOXIDE	FW	FINISH WATER (W)	N	NITROGEN	SC	SCUM	UD	UNDERDRAIN
CRS	CHLORINE RESIDUAL SAMPLE	G	GAS	NAOH	SODIUM HYDROXIDE	SCD	SCUM DECANT	UW	UTILITY WATER
CSL	COSETTLED SLUDGE	GCE	GRIT CHAMBER EFFLUENT	NG	NATURAL GAS	SCE	SECONDARY CLARIFIER EFFLUENT	V	VENT
DCT	DECANT	GCES	GRIT CHAMBER EFFLUENT SAMPLE	NIT	NITRIC ACID	SCI	SECONDARY CLARIFIER INFLUENT	W	WATER - POTABLE
DEF	DEFOAMER	GT	GRIT	O3	OZONE	SCS	SCUM SAMPLE	WSL	WASTE SLUDGE
DGG	DIGESTER GAS	GTDW	GRAVITY THICKENER DILUTION WATER	OFL	OVERFLOW	SD	STORM DRAIN	WSS	WASTE SLUDGE SAMPLE
DGS	DIGESTER SUPERNATANT	GTO	GRAVITY THICKENER OVERFLOW	PACL	POLY-ALUMINUM CHLORIDE	SEP	SEPTAGE		
				PCE	PRIMARY CLARIFIER EFFLUENT	SILI	HYDROFLUOSILICIC ACID		

PROCESS ABBREVIATIONS - ACTUATING CONTROL VALVES

ACV	ANALYSIS CONTROL VALVE	LCV	LEVEL CONTROL VALVE	TCV	TEMPERATURE CONTROL VALVE
FCV	FLOW CONTROL VALVE	PCV	PRESSURE CONTROL VALVE	SV	SOLENOID VALVE

PROCESS ABBREVIATIONS - EQUIPMENT/STRUCTURES/TANKAGE

***T	*** CHEMICAL TANK	DSTP-#	DIGESTER SLUDGE TRANSFER	HYPP-#	SODIUM HYPOCHLORITE PUMP NO.__	POLP-#	POLYMER (NEAT) PUMP NO.__	SLSC-#	SLUDGE SCREW CONVEYOR NO.__
***T	*** CHEMICAL TANK	DTB-#	DIGESTER BLOWER NO.__	HYPT-#	SODIUM HYPOCHLORITE TANK NO.__	POLT-#	POLYMER (NEAT) TANK NO.__	SLTB-#	SLUDGE TANK BLOWER NO.__
AB-#	AERATION (DIFFUSED BUBBLE OR PACKED TOWER) BLOWER NO.__	ECB-#	EFFLUENT CHANNEL BLOWER NO.__	I-#	INCINERATOR NO.__	PSLG-#	PRIMARY SLUDGE GRINDER NO.__	SLTP-#	DEWATERED SLUDGE TRANSFER PUMP NO.__
ABS-#	AUTOMATIC BASKET STRAINER NO.__	ED-#	EDUCTOR NO.__	IEQP-#	INFLUENT EQUALIZATION PUMP NO.__	PSLP-#	PRIMARY SLUDGE PUMP NO.__		
AGT-#	AERATED GRIT TANK NO.__	EEQP-#	EFFLUENT EQUALIZATION PUMP NO.__	INFG-#	INFLUENT GRINDER NO.__	PSP-#	PUMP STATION NO.__	SMX-#	STATIC MIXER (IN-LINE) NO.__
ALUMP-#	ALUMINUM SULFATE PUMP NO.__	EFFP-#	EFFLUENT PUMP NO.__	INFP-#	INFLUENT PUMP NO.__	PT-#	POLYMER TOTE NO.__	SP-#	SUMP PUMP NO.__
AMP-#	AMMONIA SOLUTION PUMP NO.__	EFWP-#	EFFLUENT FLUSHING WATER PUMP NO.__	IRP-#	INTERNAL RECYCLE PUMP NO.__	PTA-#	PACKED TOWER AERATION NO.__	SPCP-#	SUPPLEMENTAL CARBON (NON-METHANOL/ NON-XP) PUMP NO.__
AMX-#	AERATOR-MIXER NO.__	FECLP-#	FERRIC CHLORIDE PUMP NO.__	ISC-#	INTAKE SCREEN (WATER) NO.__	PTMX-#	POLYMER TOTE MIXER NO.__		
AS-X	AUTOMATIC SAMPLER NO.__	FIL-#	FILTER NO.__	KOHP-#	POTASSIUM HYDROXIDE PUMP NO.__	PTP-#	PROCESS TRANSFER PUMP NO.__	SRU-#	SEPTAGE RECEIVING UNIT NO.__
ASMX-#	ACTIVATED SLUDGE MIXER NO.__	FILP-#	FILTRATE PUMP NO.__	LSMX-#	LIME SLURRY MIXER NO.__	PWP-#	PLANT WATER PUMP NO.__	SULP-#	SULFURIC ACID PUMP NO.__
ATB-#	AERATION TANK BLOWER NO.__	FMX-#	FLOC MIXER NO.__	LSP-#	LIME SLURRY PUMP NO.__	RDT-#	ROTARY DRUM THICKENER NO.__	SWP-#	SCREENINGS WASH PRESS NO.__
BC-#	BELT CONVEYOR (NON-SLUDGE) NO.__	FP-#	FLUORIDE (SODIUM FLUORIDE) PUMP NO.__	MBR-#	MANUAL BAR RACK NO.__	RECP-#	RECYCLE PUMP NO.__	TCL-#	TERTIARY CLARIFIER MECHANISM/DRIVE NO.__
BFP-#	BELT FILTER PRESS NO.__	FP-#	HYDROFLUOSILICIC ACID PUMP NO.__	METH-#	METHANOL (XP) PUMP NO.__	RESP-#	RESIDUALS PUMP NO.__	TDP-#	TANK DRAIN PUMP NO.__
BISP-#	SODIUM BISULFITE PUMP NO.__	FRL-#	FILTER-REGULATOR-LUBRICATOR NO.__	MPP-#	MEMBRANE PERMEATE PUMP NO.__	RMX-#	RAPID MIXER (CHEMICAL) NO.__	TFD-#	TRICKLING FILTER DISTRIBUTOR MECHANISM/DRIVE NO.__
BP-#	BOOSTER PUMP NO.__	FSWP-#	FOAM SPRAY WATER NO.__	MRP-#	MICROSAND RECYCLE PUMP NO.__	RP-#	ROTARY PRESS NO.__	TPSP-#	THICKENED PRIMARY SLUDGE PUMP NO.__
BWP-#	BACKWASH PUMP NO.__	FWP-#	FINISHED WATER PUMP NO.__	MSMX-#	MAG HYDROXIDE SLURRY MIXER NO.__	RSC-#	ROTATING SCUM COLLECTOR NO.__		
CA-#	COMPRESSOR-AIR (HIGH PRESSURE) NO.__	GBT-#	GRAVITY BELT THICKENER NO.__	MSP-#	MAGNESIUM HYDROXIDE SLURRY NO.__	RSLP-#	RETURN SLUDGE PUMP NO.__	TR-#	TURBINE NO.__
CEN-#	CENTRIFUGE NO.__	GCHS-#	GANTRY CRANE HOIST SYSTEM NO.__	NAOHP-#	SODIUM HYDROXIDE PUMP NO.__	RT-#	ROCK TRAP NO.__	TRX-#	TRANSFORMER NO.__
CENP-#	CENTRATE PUMP NO.__	GF-#	GAS FLARE NO.__	NITP-#	NITRIC ACID PUMP NO.__	RWP-#	RAW WATER PUMP NO.__	TSLP-#	TERTIARY SLUDGE PUMP NO.__
CG-#	COMPRESSOR-GAS (HIGH PRESSURE) NO.__	GSC-#	GRIT SCREW CONVEYOR NO.__	OCF-#	ODOR CONTROL FAN NO.__	SAP-#	SODIUM ALUMINATE PUMP NO.__	TSMX-#	THICKENED SLUDGE MIXER NO.__
CITP-#	CITRIC ACID PUMP NO.__	GTB-#	GRIT TANK BLOWER NO.__	OCRP-#	ODOR CONTROL RECIRCULATION PUMP NO.__	SC-#	SCREW CONVEYOR (NON-SLUDGE) NO.__	TWSG-#	THICKENED WASTE SLUDGE GRINDER NO.__
DBA-#	DIFFUSED BUBBLE AERATION (LOWRY-TYPE, TANK) NO.__	GTC-#	GRIT CLASSIFIER NO.__	OCS-#	ODOR CONTROL SYSTEM NO.__	SCDP-#	SCUM DRAIN PUMP NO.__	TWSP-#	THICKENED WASTE SLUDGE PUMP NO.__
DC-#	DRYER/CHILLER NO.__	GTCY-#	GRIT CYCLONE NO.__	PACLP-#	POLYALUMINUM CHLORIDE PUMP NO.__	SCFP-#	SCUM FINAL PUMP NO.__	UWP-#	UTILITY WATER PUMP NO.__
DCT-#	DECANTER NO.__	GTMX-#	GRIT MIXER (VORTEX UNIT) NO.__	PACP-#	POWDERED ACTIVATED CARBON PUMP NO.__	SCL-#	SECONDARY CLARIFIER MECHANISM/DRIVE NO.__	UV-#	ULTRAVIOLET LIGHT DISINFECTION NO.__
DFP-#	DEWATERING FEED PUMP NO.__	GTP-#	GRIT PUMP NO.__	PBU-#	POLYMER BLENDING UNIT NO.__	SCP-#	SCUM PIT NO.__	WSLG-#	WASTE SLUDGE GRINDER NO.__
DPMX-#	DILUTE POLYMER MIXER NO.__	GTR-#	GRAVITY THICKENER MECHANISM/DRIVE NO.__	PCL-#	PRIMARY CLARIFIER MECHANISM/DRIVE NO.__	SCPP-#	SCUM PRIMARY PUMP NO.__	WSLP-#	WASTE SLUDGE PUMP NO.__
DPOLP-#	DILUTE POLYMER PUMP NO.__	GTW-#	GRIT WASHER NO.__	PERP-#	POTASSIUM PERMANGANATE PUMP NO.__	SCR-#	MECHANICAL SCREEN NO.__	WSMX-#	WASTE SLUDGE MIXER NO.__
DPOLT-#	DILUTE POLYMER TANK NO.__	HCLP-#	HYDROCHLORIC ACID PUMP NO.__	PFP-#	PLATE AND FRAME PRESS NO.__	SCSP-#	SCUM SECONDARY PUMP NO.__	WSTP-#	WASTE SLUDGE TRANSFER PUMP NO.__
DSLG-#	DEWATERING SLUDGE GRINDER NO.__	HOP-#	HYDRAULIC OIL PUMP NO.__	PHOSP-#	PHOSPHATE PUMP NO.__	SEPB-#	SEPTAGE TANK BLOWER NO.__	WWBP-#	WASH WATER BOOSTER PUMP NO.__
DSLP-#	DEWATERING SLUDGE PUMP NO.__	HSLP-#	HUMUS SLUDGE PUMP NO.__			SEPP-#	SEPTAGE PUMP NO.__	YWP-#	YARD WASTE PUMP NO.__
DSRP-#	DIGESTER SLUDGE PUMP NO.__	HYDT-#	HYDROPNEUMATIC TANK NO.__			SLBC-#	SLUDGE BELT CONVEYOR NO.__		
						SLC-#	SLUDGE COLLECTOR NO.__		
						SLG-#	SLUDGE GRINDER NO.__		
						SLP-#	SLUDGE PUMP NO.__		

EXISTING VS. PROPOSED IDENTIFICATION

EXISTING: SLP-3 SLUDGE PUMP NO.3 (AE 323, DO); CEN-1 CENTRIFUGE NO.1 (M)

PROPOSED: SLP-3 SLUDGE PUMP NO.3 (LE XX / XXA M EQUIPMENT TAG NO.; EQUIPMENT DESCRIPTION); CEN-1 CENTRIFUGE NO.1 (M)

AS IDENTIFIED IN THE PROCESS GENERAL NOTES, CONTRACTOR TO NOTE THAT ALL EXISTING INFORMATION ON THE DRAWINGS IS SHOWN WITH A LIGHTER LINE WEIGHT AND INDICATED WITH A SLANTED TYPE TEXT. EXISTING VALVES DO NOT HAVE A FILL ASSOCIATED WITH THEM. REFER TO EXAMPLES IN THIS BOX.

REV.	DATE	DESCRIPTION	BY
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1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA — STEVEN CHARLES HALLOWELL — License No. Pe0046278 — PROFESSIONAL ENGINEER — 4/30/2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

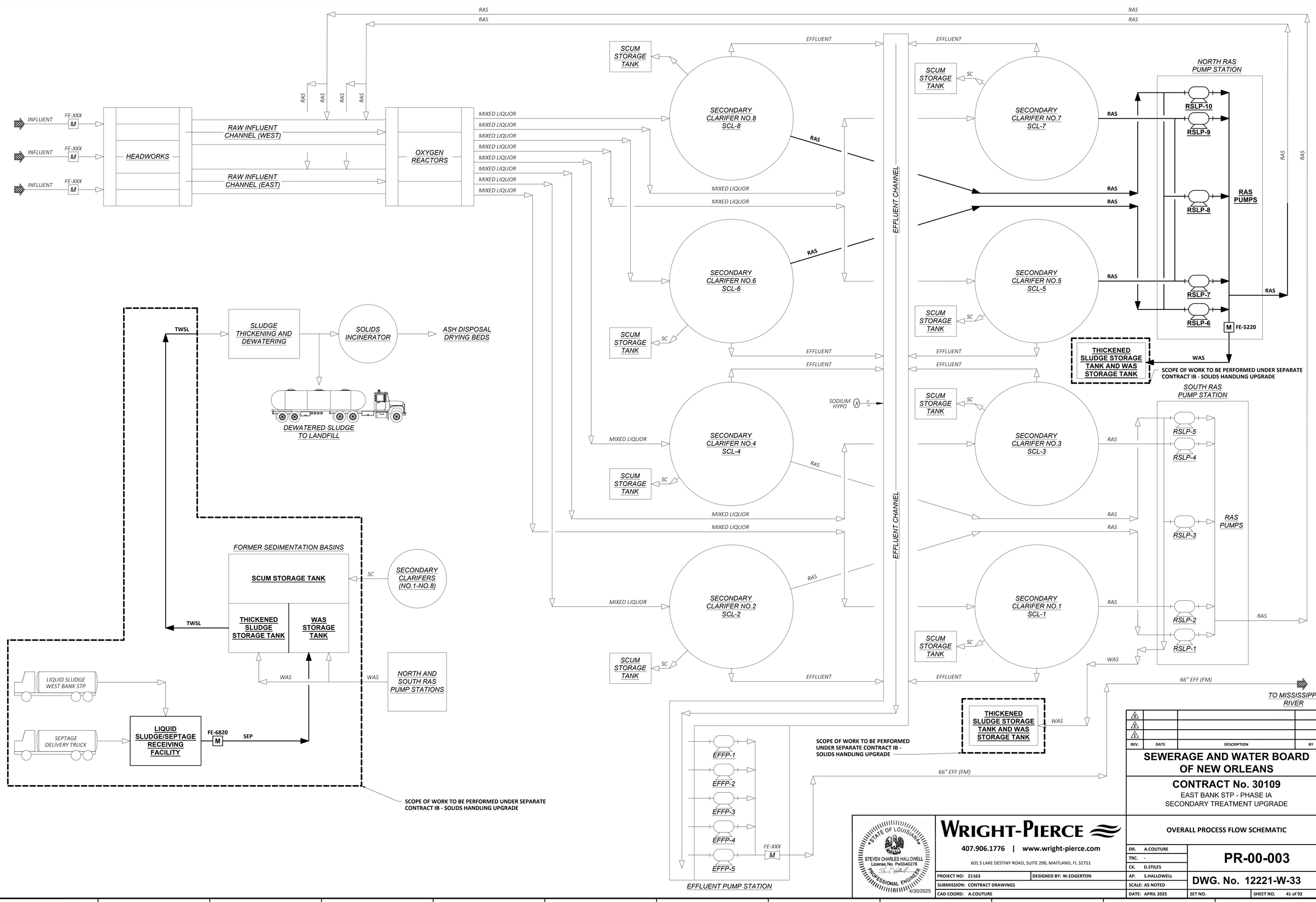
PROCESS LEGEND AND ABBREVIATIONS

DR.	A.COUTURE		PR-00-002
TRC.	-		
CK.	D.STILES		
AP.	S.HALLOWELL		DWG. No. 12221-W-33
PROJECT NO:	21163	DESIGNED BY: W.EDGERTON	
SUBMISSION:	CONTRACT DRAWINGS	SCALE: AS NOTED	
CAD COORD:	A.COUTURE	DATE: APRIL 2025	SET NO. / SHEET NO. 40 of 92

J:\ENG\LA\NEWORLEANS\21163-EASTBANKSTP PHASE_I_WW_IMPROVEMENTS_DRAWINGS\PHASE-1A\PRO\21163-PRS-LEGEND.DWG | Legend | 1:10.1236477 | — | 4/25/2025 10:36:06 AM | ADAM.COUTURE

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J:\ENG\LAT\NEWORLEANS\21163-EASTBANKSTP PHASE_1_WW_IMPROVEMENTS_DRAWINGS\PHASE-1A\PRO\21163-PRS-PFDO-OVERALL.DWG | PRO-FLOW-SCHEM | 1:10.1236427 | — | 4/25/2025 10:36:12 AM | ADAM.COUTURE



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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

OVERALL PROCESS FLOW SCHEMATIC

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. PeO046278
PROFESSIONAL ENGINEER
4/30/2025

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DR. A.COUTURE		**PR-00-003**	
TRC. -			
CK. D.STILES			
AP. S.HALLOWELL		**DWG. No. 12221-W-33**	
PROJECT NO: 21163	DESIGNED BY: W.EDGERTON		
SUBMISSION: CONTRACT DRAWINGS		SCALE: AS NOTED	
CAD COORD: A.COUTURE		DATE: APRIL 2025	SET NO. SHEET NO. 41 of 92

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I:\ENG\LA\NEWORLEANS\21163-EASTBANKSTP PHASE_I\WW_IMPROVEMENTS_DRAWINGS\PHASE-1A\PRO\21163-PRS-SCHEMATICS.DWG | PR-00-004 | 1:10.12364677 | — | 4/25/2025 10:36:20 AM | ADAM.COUTURE

II PR-00-006 — FROM GRIT WASHER NO.3 — WASHED GT
HH PR-00-006 — FROM GRIT WASHER NO.2 — WASHED GT
GG PR-00-006 — FROM GRIT WASHER NO.1 — WASHED GT
WASHED GT
SCREENINGS
SCR-6 MECHANICAL SCREEN NO.6
SCR-5 MECHANICAL SCREEN NO.5
SCR-4 MECHANICAL SCREEN NO.4
SCR-3 MECHANICAL SCREEN NO.3
SCR-2 MECHANICAL SCREEN NO.2
SCR-1 MECHANICAL SCREEN NO.1
BC-1 GRIT AND SCREENINGS BELT CONVEYOR
COMMON INFLUENT CHANNEL
48" FM (INFLUENT)
SLD-XXX
FF PR-00-006 — 12" DR — FROM GRIT CYCLONE NO.6
EE PR-00-006 — 12" DR — FROM GRIT CYCLONE NO.5
DD PR-00-006 — 12" DR — FROM GRIT CYCLONE NO.4
CC PR-00-006 — 12" DR — FROM GRIT CYCLONE NO.3
KK PR-00-006 — 3" SPD — FROM SUMP PUMP NO.X
JJ PR-00-006 — 3" SPD — FROM SUMP PUMP NO.X
RR PR-00-007 — 6" SC — FROM SCUM STORAGE TANK
36" FM (INFLUENT)
BB PR-00-006 — 12" DR — FROM GRIT CYCLONE NO.2
AA PR-00-006 — 12" DR — FROM GRIT CYCLONE NO.1
54" FM (INFLUENT)
S PR-00-005 — 4" GR — FROM CLARIFIERS
R PR-00-005 — 4" GR — FROM CLARIFIERS
FROM AIR BLOWERS
STG-XXX
CHANNEL
STG-XXX
GSC-6 GRIT SCREW — AERATED GRIT BASIN NO.6
GSC-5 GRIT SCREW — AERATED GRIT BASIN NO.5
GSC-4 GRIT SCREW — AERATED GRIT BASIN NO.4
GSC-3 GRIT SCREW — AERATED GRIT BASIN NO.3
AERATED GRIT BASIN NO.2
AERATED GRIT BASIN NO.1
FW-XXX
COMMON EFFLUENT CHANNEL
RAW SEWAGE CHANNEL NO.2 (WEST) — PR-00-005 B — TO OXYGEN REACTORS
RAW SEWAGE CHANNEL NO.1 (EAST) — PR-00-005 A — TO OXYGEN REACTORS
T PR-00-008 — 30" RAS — FROM NORTH RAS PUMP STATION
U PR-00-008 — 30" RAS — FROM SOUTH RAS PUMP STATION
30" RAS
30"
12" BF
PR-00-006 I — TO GRIT CLASSIFIERS
PR-00-006 H — TO GRIT CLASSIFIERS
PR-00-006 G — TO GRIT CLASSIFIERS
PR-00-006 F — TO GRIT CLASSIFIERS
PR-00-006 E — TO GRIT CLASSIFIERS
PR-00-006 D — TO GRIT CLASSIFIERS
TO RAW SEWAGE CHANNELS

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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

PROCESS FLOW SCHEMATICS I

STATE OF LOUISIANA — STEVEN CHARLES HALLOWELL — License No. PE046278 — PROFESSIONAL ENGINEER — 4/30/2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163	DESIGNED BY: W.EDGERTON
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025
DR. A.COUTURE	
TRC. -	
CK. D.STILES	
AP. S.HALLOWELL	

PR-00-004
DWG. No. 12221-W-33
SET NO. — SHEET NO. 42 of 92

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J:\ENGLA\NEWORLEANS\21163-EASTBANKSTP PHASE 1_ WW_IMPROVEMENTS_DRAWINGS\PHASE-1A\PRO\21163-PRS-SCHEMATICS.DWG | PR-00-005 | 110.1236677 | — | 4/25/2025 10:36:21 AM | ADAM.COUTURE

OXYGEN REACTOR NO.4

SLD-XXX; SLG-XXX; SLG-XXX; SLG-XXX; SLG-XXX; 14" A; FW-XXX; STG-XXX; MIXED LIQUOR CHANNEL

OXYGEN REACTOR NO.3

14" A; FROM O2 PLANT; SLG-XXX; SLG-XXX; SLG-XXX; SLG-XXX; SLG-XXX; FW-XXX; STG-XXX; MIXED LIQUOR CHANNEL

OXYGEN REACTOR NO.2

SLD-XXX; SLG-XXX; SLG-XXX; SLG-XXX; SLG-XXX; 14" A; FW-XXX; STG-XXX; MIXED LIQUOR CHANNEL

OXYGEN REACTOR NO.1

SLD-XXX; SLG-XXX; SLG-XXX; SLG-XXX; SLG-XXX; SLG-XXX; FW-XXX; STG-XXX; MIXED LIQUOR CHANNEL

B PR-00-004 — FROM GRIT BASINS — RAW SEWAGE CHANNEL NO.2 (WEST)

A PR-00-004 — FROM GRIT BASINS — RAW SEWAGE CHANNEL NO.1 (EAST) — SLD-XXX

W PR-00-008 — FROM NORTH RAS PUMP STATION — 3" SPD

V PR-00-008 — FROM NORTH RAS PUMP STATION — 3" SPD

ZZ PR-00-008 — FROM NORTH RAS PUMP STATION — 3" SPD

AB PR-00-008 — FROM SOUTH RAS PUMP STATION — 8" WAS

Y PR-00-008 — FROM SOUTH RAS PUMP STATION — 3" SPD

X PR-00-008 — FROM SOUTH RAS PUMP STATION — 3" SPD

48" MIXED LIQUOR 60"x48"; 66" MIXED LIQUOR

CLARIFIER NO.8 — SCL-8

WSH 5013; WSHH 5013; LE 5241; LSH 5241; LE 5023; 2" GR; 2" SPD; 8" GR; FW-XXX; 42" EFF

BID ALTERNATE "C"

SCSP-8 SECONDARY CLARIFIER GREASE/SCUM PUMP NO.8

48" MIXED LIQUOR; 24" DR; 24"x16"; 12" DR; EFFLUENT CHANNEL

CLARIFIER NO.7 — SCL-7

WSH 5012; WSHH 5012; LE 5022; LE 5240; LSH 5240; 3"x2"

BID ALTERNATE "A"

SCSP-7 SECONDARY CLARIFIER GREASE/SCUM PUMP NO.7

16" RAS; 24" RAS; 24"x16"; 3" GR

24" RAS — PR-00-008 Q — TO NORTH RAS PUMP STATION

24" RAS — PR-00-008 P — TO NORTH RAS PUMP STATION

CLARIFIER NO.6 — SCL-6

WSH 5011; WSHH 5011; LE 5239; LSH 5239; LE 5021

BID ALTERNATE "B"

SCSP-6 SECONDARY CLARIFIER GREASE/SCUM PUMP NO.6

CLARIFIER NO.5 — SCL-5

WSH 5010; WSHH 5010; LE 5020; LE 5238; LSH 5238

SCSP-5 SECONDARY CLARIFIER GREASE/SCUM PUMP NO.5

24" RAS — PR-00-008 O — TO NORTH RAS PUMP STATION

24" RAS — PR-00-008 N — TO NORTH RAS PUMP STATION

CLARIFIER NO.4 — SCL-4

SCSP-4 SECONDARY CLARIFIER GREASE/SCUM PUMP NO.4

CLARIFIER NO.3 — SCL-3

SCSP-3 SECONDARY CLARIFIER GREASE/SCUM PUMP NO.3

4"x3"

16" RAS — PR-00-008 M — TO SOUTH RAS PUMP STATION

16" RAS — PR-00-008 L — TO SOUTH RAS PUMP STATION

4" GR — PR-00-004 S — TO GRIT BASIN

4" GR — PR-00-004 R — TO SCUM TANK (SEDIMENTATION BASIN 2)

CLARIFIER NO.2 — SCL-2

SCSP-2 SECONDARY CLARIFIER GREASE/SCUM PUMP NO.2

CLARIFIER NO.1 — SCL-1

SCSP-1 SECONDARY CLARIFIER GREASE/SCUM PUMP NO.1

EFFLUENT CHANNEL — PR-00-005 C — TO EFFLUENT PUMP STATION WETWELL

16" RAS — PR-00-008 K — TO SOUTH RAS PUMP STATION

16" RAS — PR-00-008 J — TO SOUTH RAS PUMP STATION

66" MIXED LIQUOR — PR-00-007 Z — TO SEDIMENTATION BASINS

NOTES:

1. THIS SHEET CONTAINS BID ALTERNATE "A","B", AND "C" ITEMS DESCRIBED IN SPECIFICATION SECTION 01100 - ALTERNATIVES.

SHEET CONTAINS BID ALTERNATES

REV.	DATE	DESCRIPTION	BY
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

PROCESS FLOW SCHEMATICS II

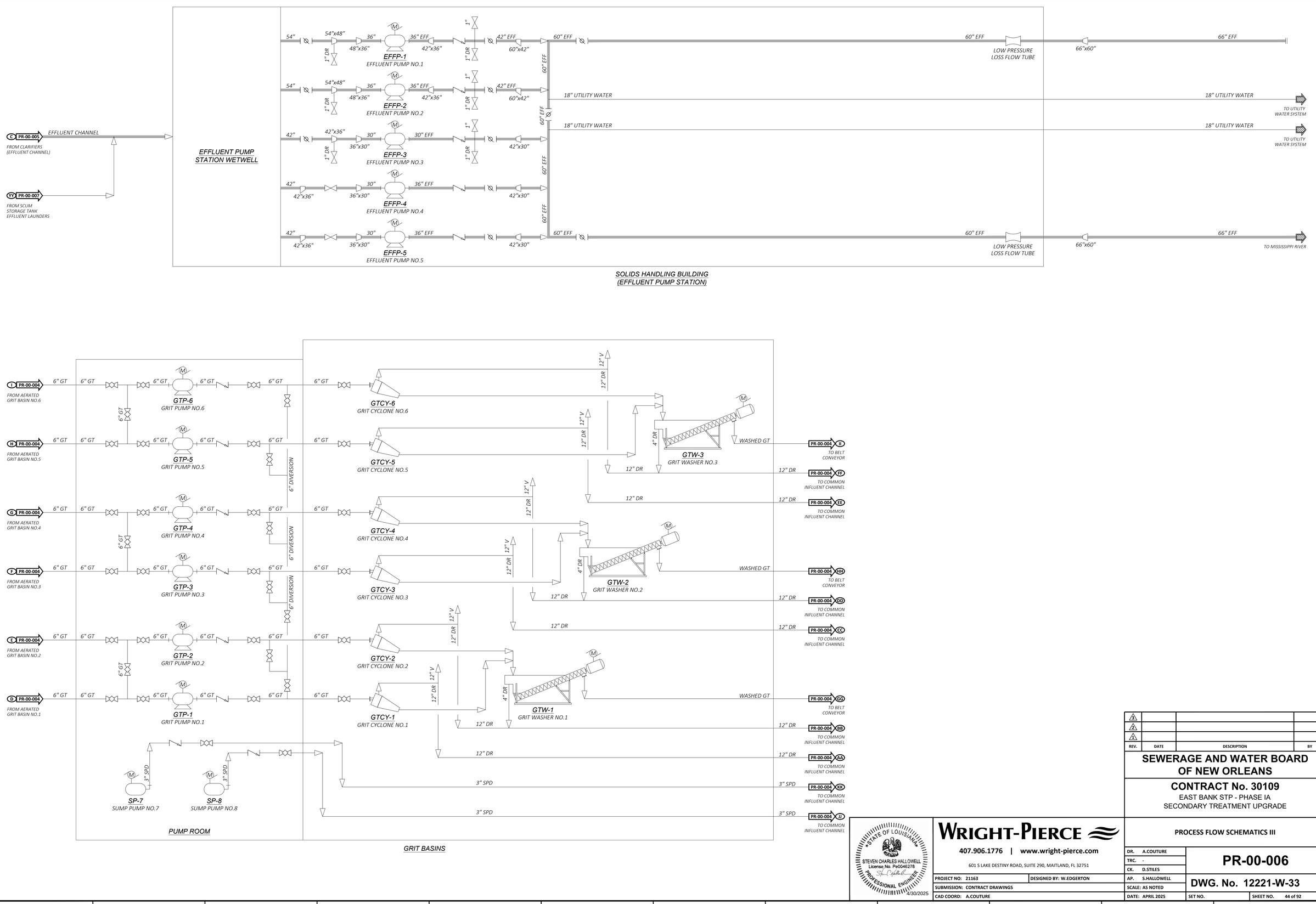
STATE OF LOUISIANA — STEVEN CHARLES HALLOWELL — License No. Pe0046278 — PROFESSIONAL ENGINEER — 4/30/2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163	DESIGNED BY: W.EDGERTON	DR. A.COUTURE	PR-00-005
SUBMISSION: CONTRACT DRAWINGS		TRC. -	
CAD COORD: A.COUTURE		CK. D.STILES	
		AP. S.HALLOWELL	DWG. No. 12221-W-33
		SCALE: AS NOTED	
		DATE: APRIL 2025	SET NO. SHEET NO. 43 of 92

LAST SAVED BY: ADAM.COUTURE 4/21/2025 3:52 PM

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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

PROCESS FLOW SCHEMATICS III

STEVEN CHARLES HALLOWELL
License No. Pe046278
PROFESSIONAL ENGINEER
STATE OF LOUISIANA
4/30/2025

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DR. A.COUTURE	
TRC. -	
CK. D.STILES	
AP. S.HALLOWELL	
PROJECT NO: 21163	DESIGNED BY: W.EDGERTON
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025

PR-00-006

DWG. No. 12221-W-33

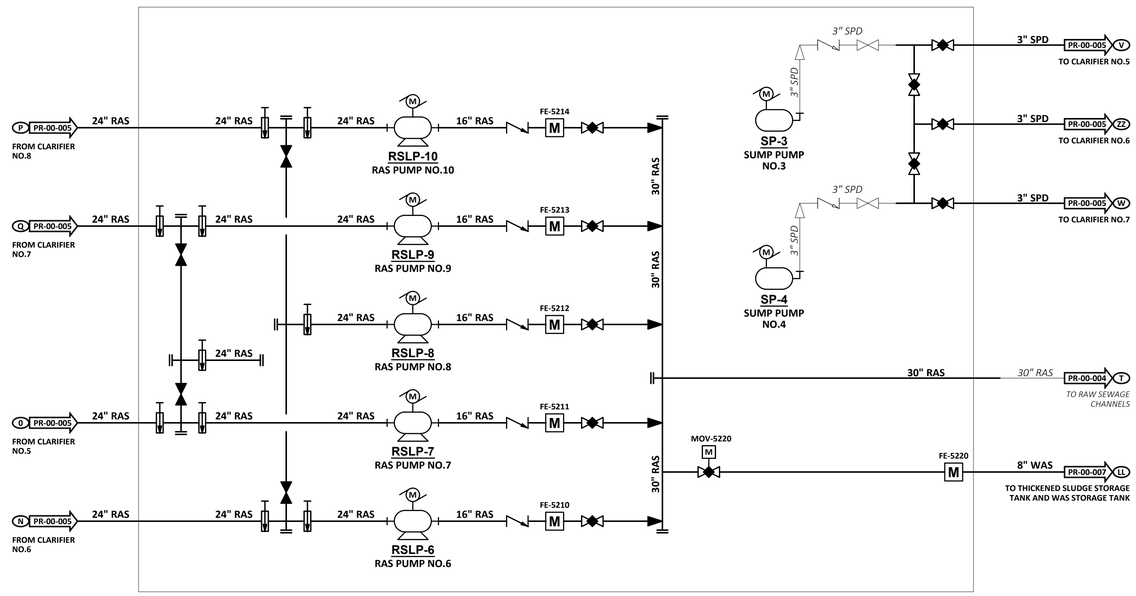
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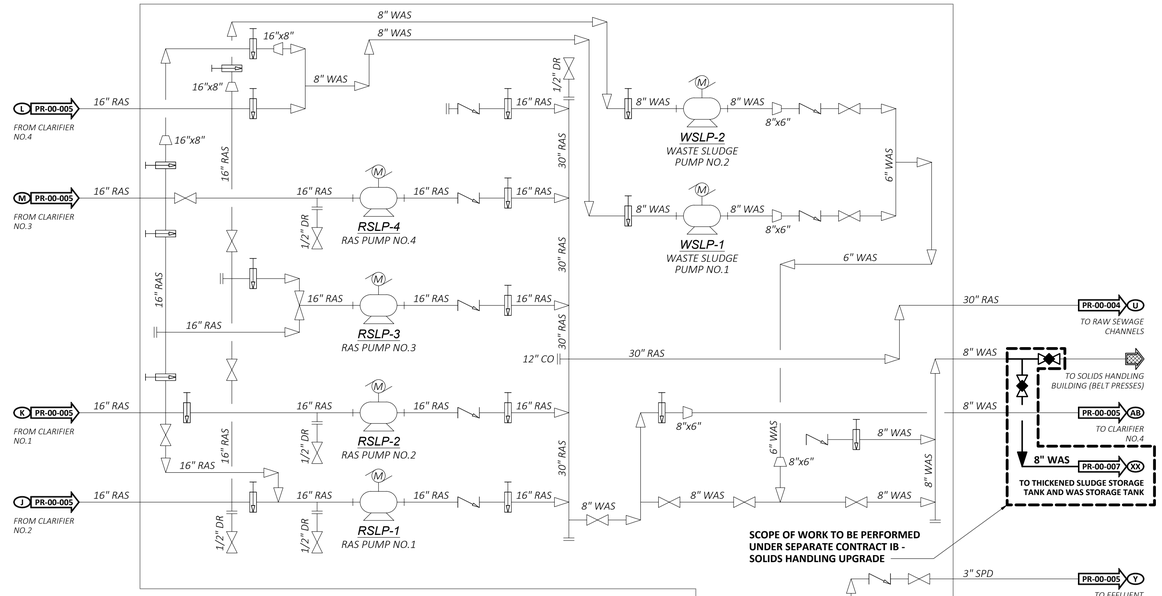
4" SPD
6" SC
6" SC
6" SC

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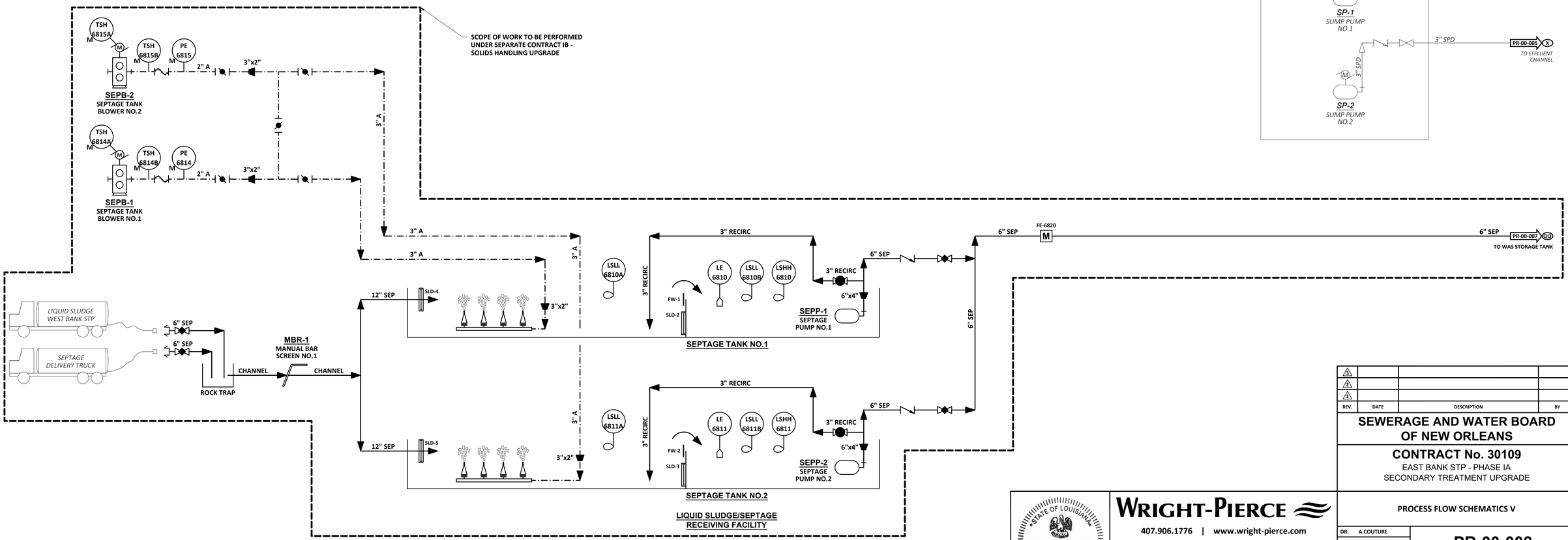
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NORTH RAS PUMP STATION



SOUTH RAS PUMP STATION



REV.	DATE	DESCRIPTION	BY
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. PE046278
PROFESSIONAL ENGINEER
4/30/2025

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PROCESS FLOW SCHEMATICS V

DR. A.COUTURE	
TRC. -	
CK. D.STILES	
AP. S.HALLOWELL	
PROJECT NO: 21163	DESIGNED BY: W.EDGERTON
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025

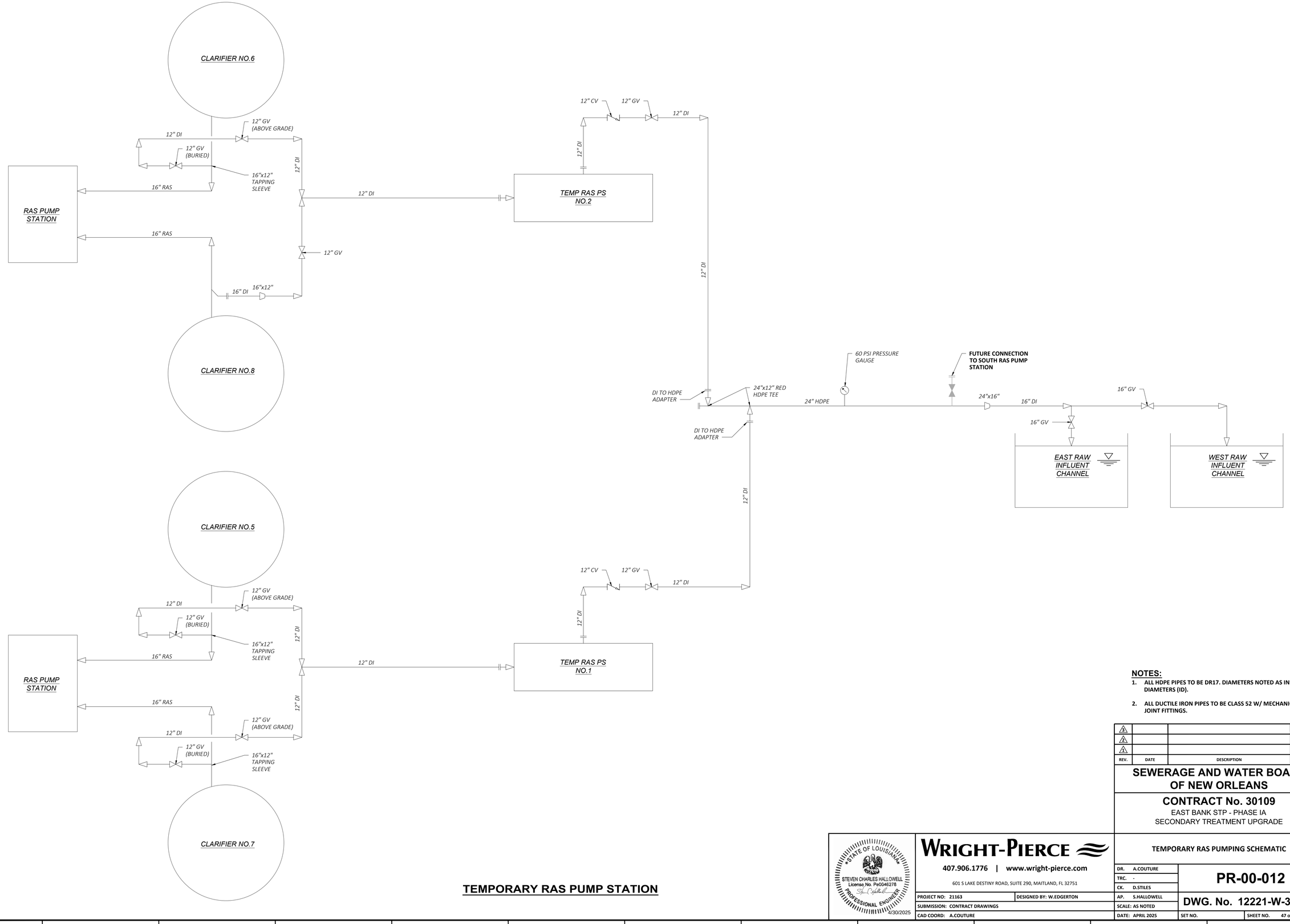
PR-00-008

DWG. No. 12221-W-33

SET NO. SHEET NO. 46 of 92

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TEMPORARY RAS PUMP STATION

NOTES:

1. ALL HDPE PIPES TO BE DR17. DIAMETERS NOTED AS INSIDE DIAMETERS (ID).
2. ALL DUCTILE IRON PIPES TO BE CLASS 52 W/ MECHANICAL JOINT FITTINGS.

REV.	DATE	DESCRIPTION	BY
3			
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. PE046278
PROFESSIONAL ENGINEER
4/30/2025

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TEMPORARY RAS PUMPING SCHEMATIC

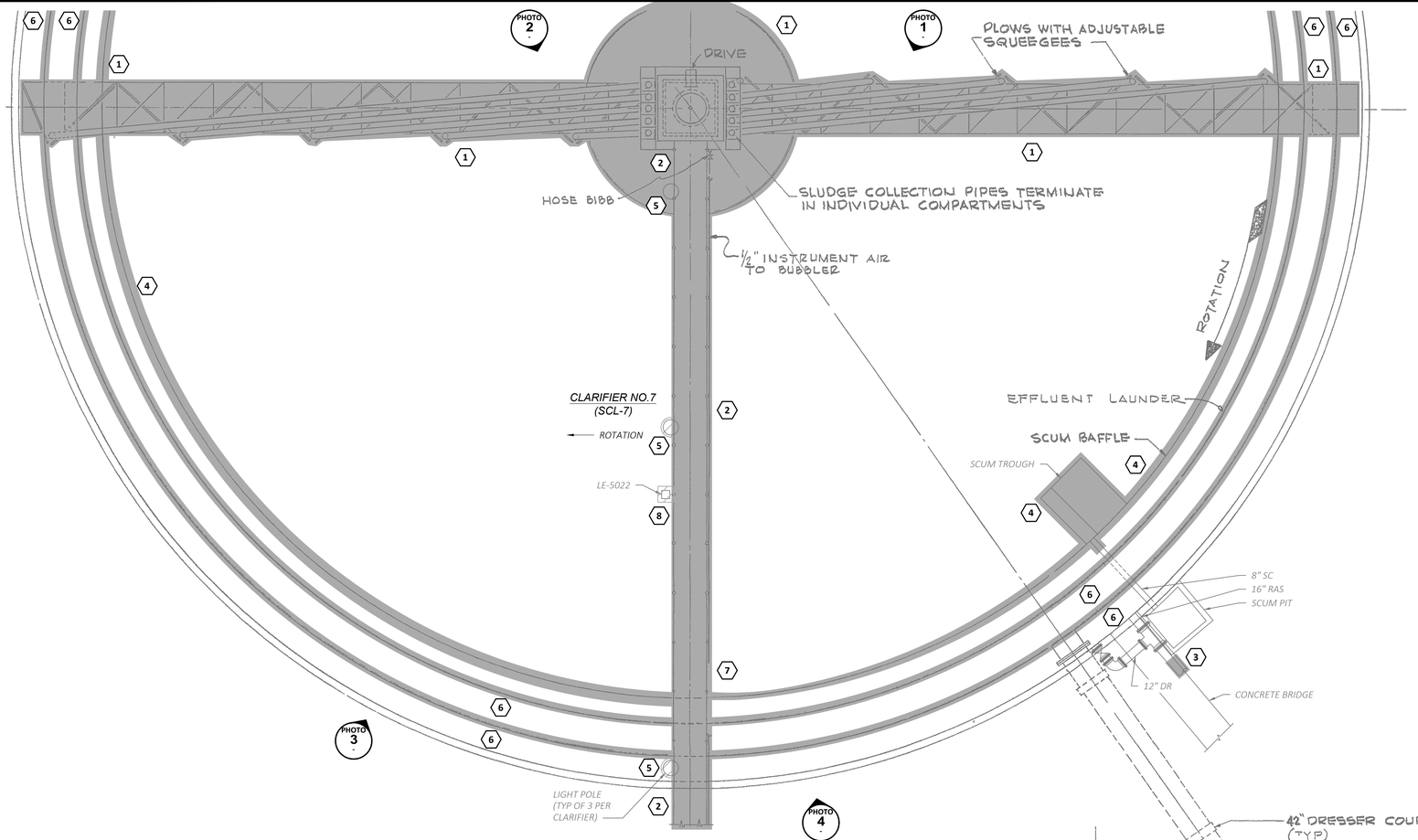
PROJECT NO: 21163	DESIGNED BY: W.EDGERTON
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

DR.	A.COUTURE
TRC.	-
CK.	D.STILES
AP.	S.HALLOWELL
SCALE:	AS NOTED
DATE:	APRIL 2025

PR-00-012

DWG. No. 12221-W-33

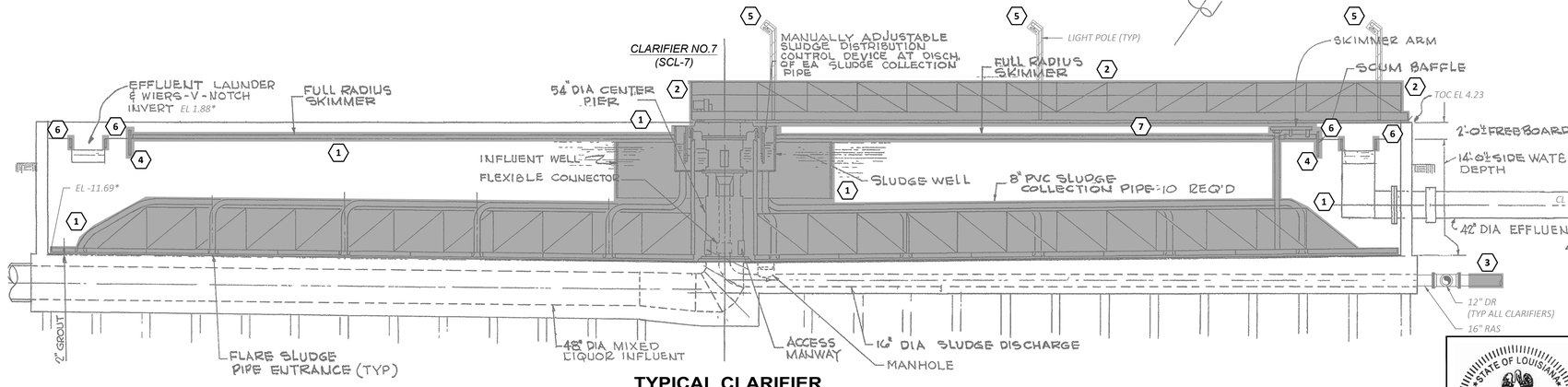
SET NO. | SHEET NO. 47 of 92



TYPICAL CLARIFIER DEMOLITION PLAN (NO.6, 7, & 8)

SCALE: "SCANNED"
(APPROXIMATELY: 1/8"=1'-0")

NOTE: CLARIFIER COMPONENTS ARE ROTATED FOR CLARITY.



TYPICAL CLARIFIER DEMOLITION SECTION (NO.6, 7, & 8)

SCALE: "SCANNED"
(APPROXIMATELY: 1/8"=1'-0")

NOTE: CLARIFIER COMPONENTS ARE ROTATED FOR CLARITY.



PHOTO 1

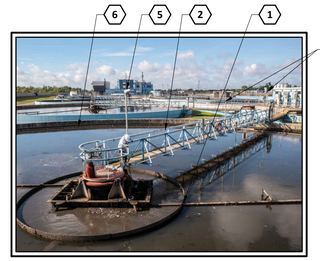


PHOTO 2

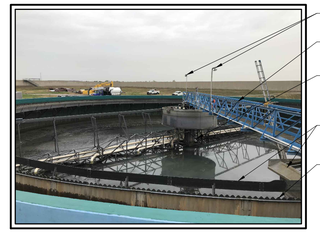


PHOTO 3



PHOTO 4

DEMOLITION NOTES:

1. REMOVE/DEMOLISH THE EXISTING CLARIFIER MECHANISM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO; RAKE ARM, DRIVE, CENTER WELL, SLUDGE WITHDRAWAL PIPING, RAKE BLADE, SCRAPPER BLADES WITH SQUEEGEE, SUPPORTS, CONDUIT, WIRING, CONTROLS, AND ALL OTHER ASSOCIATED APPURTENANCES.
2. REMOVE/DEMOLISH THE EXISTING BRIDGE ASSEMBLY IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO; GRATING, STEEL SUPPORTS, HANDRAIL, HARDWARE, AND ALL OTHER ASSOCIATED APPURTENANCES.
3. REMOVE/DEMOLISH THE EXISTING 16" RAS PIPING TO THE EXTENTS SHOWN, INCLUDING BUT NOT LIMITED TO; PIPING, SUPPORTS, AND ALL OTHER ASSOCIATED APPURTENANCES. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
4. REMOVE/DEMOLISH THE EXISTING SCUM BAFFLE IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO; SCUM BAFFLE, TROUGH, SUPPORTS, PIPING, AND ALL OTHER ASSOCIATED APPURTENANCES.
5. REMOVE/REINSTALL EXISTING LIGHT POLE AND FIXTURE. EXISTING LIGHT POLE AND FIXTURE TO BE REINSTALLED AFTER NEW BRIDGE ASSEMBLY IS INSTALLED. REMOVE/DEMOLISH AND DISPOSE OF EXISTING CONDUIT, WIRE, CONTROLS, HARDWARE AND ALL ASSOCIATED APPURTENANCES FOR THE BRIDGE LIGHT POLES IN THEIR ENTIRETY.
6. REMOVE/DEMOLISH THE EFFLUENT WEIR IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO; SUPPORT, HARDWARE AND ALL ASSOCIATED APPURTENANCES. LAUNDER TO REMAIN.
7. REMOVE/DEMOLISH THE EXISTING UTILITY WATER AND SUMP PUMP DISCHARGE PIPING IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO; PIPING, VALVES, SUPPORTS, HARDWARE, AND ALL OTHER ASSOCIATED APPURTENANCES.
8. REMOVE/REINSTALL THE EXISTING LEVEL ELEMENT. EXISTING LEVEL ELEMENT TO BE REINSTALLED AFTER NEW BRIDGE ASSEMBLY IS INSTALLED.

GENERAL NOTES:

1. FOR GENERAL PROCESS AND DEMOLITION NOTES, REFER TO DRAWINGS PR-00-001. FOR LEGEND AND ABBREVIATIONS, REFER TO DRAWINGS PR-00-002.
2. CONTRACTOR TO NOTE A SCANNED IMAGE OF THE EXISTING CONTRACT DRAWINGS HAS BEEN USED FOR THE CLARIFIERS DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BIDDING AND/OR COMMENCING CONSTRUCTION. FOR INFORMATION PERTAINING TO EXISTING CONTRACT DRAWINGS, REFER TO THE PROCESS GENERAL NOTES, DWG PR-00-001.
3. IN GENERAL, WORK DESCRIBED IN THESE NOTES AND ON THE DRAWINGS ARE TYPICAL FOR CLARIFIERS NO.6, 7, & 8.
4. CLARIFIER COMPONENTS MAY BE ROTATED FOR CLARITY. REFER TO THE CLARIFIER OVERALL DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
5. OWNER SHALL DRAIN EACH TANK AND REMOVE ALL LIQUID AND SOLIDS. ONCE DRAINED, OWNER SHALL HOSE OFF CLARIFIER MECHANISM, WALLS, LAUNDER, BASE, AND REMOVE ALL LIQUID AND SOLIDS. ONCE CLEANED, THE CONTRACTOR SHALL COMMENCE THE DEMOLITION OF THE EQUIPMENT. AFTER EQUIPMENT HAS BEEN REMOVED, ENGINEER TO INSPECT AND DETERMINE IF ANY CONCRETE STRUCTURAL REPAIRS ARE TO BE PERFORMED BY THE CONTRACTOR.
6. ALL WORK INCLUDED IN THIS SHEET FALLS UNDER BID ALTERNATES "A","B", AND "C" AS DESCRIBED IN SPECIFICATION SECTION 01100 - ALTERNATIVES.

FULL SHEET BID ALTERNATES

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STEVEN CHARLES HALLOWELL
License No. PE0046278
STATE OF LOUISIANA
PROFESSIONAL ENGINEER
4/30/2025

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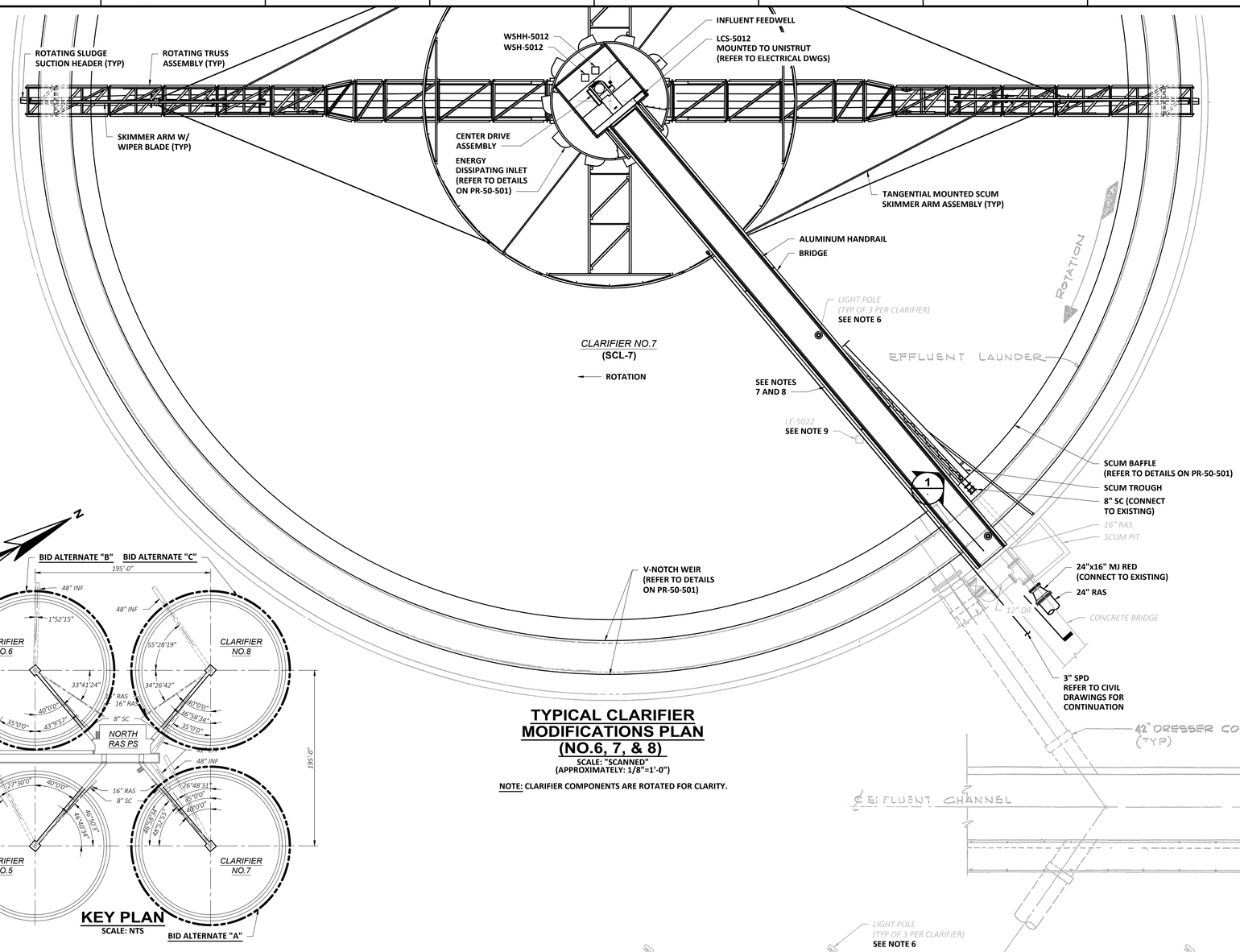
PROJECT NO: 21163	DESIGNED BY: W.EDGERTON
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

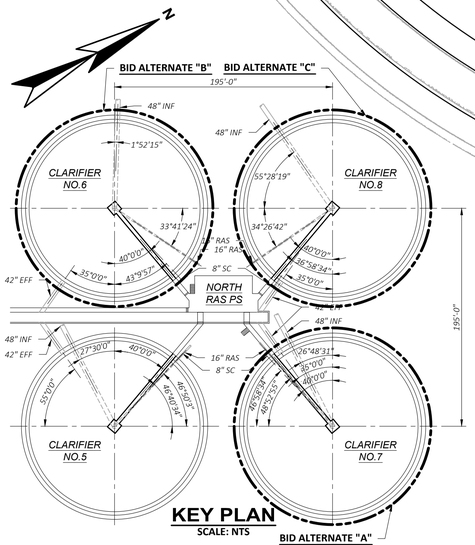
SECONDARY CLARIFIERS DEMOLITION PLAN AND SECTIONS

DR. A.COUTURE	**PR-50-101**
TRC. -	
CK. D.STILES	
AP. S.HALLOWELL	**DWG. No. 12221-W-33**
SCALE: AS NOTED	
DATE: APRIL 2025	SET NO. SHEET NO. 48 of 92

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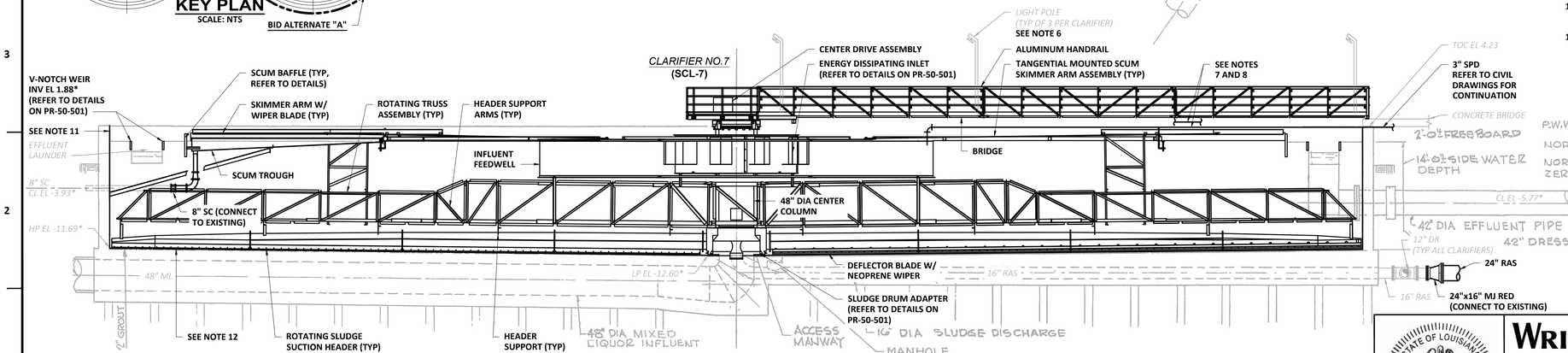


KEY PLAN
SCALE: NTS

BID ALTERNATE "A"

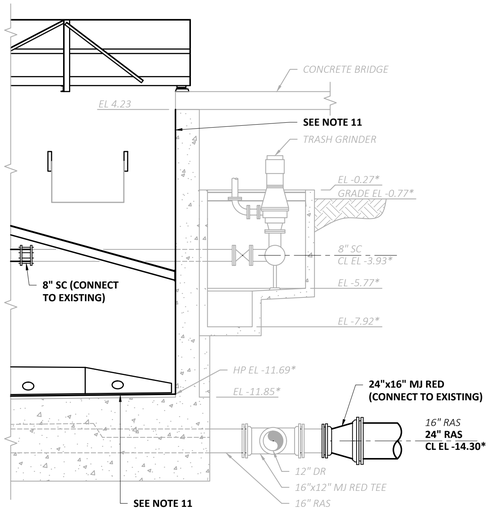
TYPICAL CLARIFIER MODIFICATIONS PLAN (NO.6, 7, & 8)
SCALE: "SCANNED" (APPROXIMATELY: 1/8"=1'-0")

NOTE: CLARIFIER COMPONENTS ARE ROTATED FOR CLARITY.



TYPICAL CLARIFIER MODIFICATIONS SECTION (NO.6, 7, & 8)
SCALE: "SCANNED" (APPROXIMATELY: 1/8"=1'-0")

NOTE: CLARIFIER COMPONENTS ARE ROTATED FOR CLARITY.



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

GENERAL NOTES:

1. FOR GENERAL PROCESS AND DEMOLITION NOTES, REFER TO DRAWINGS PR-00-001. FOR LEGEND AND ABBREVIATIONS, REFER TO DRAWINGS PR-00-002.
2. CONTRACTOR TO NOTE A SCANNED IMAGE OF THE EXISTING CONTRACT DRAWINGS HAS BEEN USED FOR THE CLARIFIER MODIFICATIONS. EXISTING INFORMATION HAS BEEN FADED BACK FOR CLARITY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BIDDING AND/OR COMMENCING CONSTRUCTION. FOR INFORMATION PERTAINING TO EXISTING CONTRACT DRAWINGS, REFER TO THE PROCESS GENERAL NOTES, DWG PR-00-001.
3. IN GENERAL, WORK DESCRIBED IN THESE NOTES AND ON THE DRAWINGS ARE TYPICAL FOR CLARIFIERS NO.6, 7, & 8.
4. CLARIFIER COMPONENTS MAY BE ROTATED FOR CLARITY. REFER TO THE CLARIFIER OVERALL MODIFICATIONS PLAN FOR ADDITIONAL INFORMATION.
5. CONTRACTOR TO PERFORM STRUCTURAL REPAIRS TO THE CLARIFIER CONCRETE SURFACE AS DETERMINED BY ENGINEER.
6. REINSTALL THE EXISTING LIGHT POLE/FIXTURES. COORDINATE WITH THE OWNER ON THE LOCATIONS. CONTRACTOR TO PROVIDE NEW CONDUIT, WIRE, AND CONTROLS. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL INSTALL NEW UTILITY WATER LINES AND HOSE BIBB WITH RACK AT THE CENTER WELL FOR EACH CLARIFIER. CONTRACTOR SHALL COORDINATE HOSE BIBB AND RACK LOCATION WITH OWNER.
8. FOR CLARIFIERS NO.5, NO.6, AND NO.7, THE CONTRACTOR SHALL INSTALL THE SUMP PUMP DISCHARGE PIPING FROM THE NORTH RAS PUMP STATION TO THE CENTER WELL. CONTRACTOR SHALL COORDINATE THE FINAL DISCHARGE LOCATION WITH THE OWNER.
9. CONTRACTOR SHALL REMOVE THE SLUDGE BLANKET LEVEL INSTRUMENT DURING MECHANISM DEMOLITION FOR SALVAGE, AND REINSTALL AND REFEED INSTRUMENT AFTER INSTALLATION OF NEW CLARIFIER MECHANISM BRIDGE.
10. CONTRACTOR SHALL FIELD SURVEY THE V-NOTCH WEIR INVERT ELEVATIONS PRIOR TO DEMOLITION, AND INSTALL THE NEW WEIRS TO MATCH THE EXISTING FIELD MEASURED ELEVATIONS.
11. PROVIDE TYPE 2 CONCRETE COATING FULL HEIGHT ON CLARIFIER WALLS.
12. IF DEEMED NECESSARY BY THE SELECTED EQUIPMENT MANUFACTURER, PREPARE EXISTING CONCRETE SURFACE AND PLACE 2" CONCRETE FILL ON CLARIFIER BASE. SPREAD CONCRETE FILL WITH NEW MECHANISM.
13. ALL WORK INCLUDED IN THIS SHEET FALLS UNDER BID ALTERNATES "A", "B", AND "C" AS DESCRIBED IN SPECIFICATION SECTION 01100 – ALTERNATES.

FULL SHEET BID ALTERNATES

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe0046278
PROFESSIONAL ENGINEER
4/30/2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

SECONDARY CLARIFIERS MODIFICATIONS PLAN AND SECTIONS

DR.	A.COUTURE		
TRC.	-		
CK.	D.STILES		
AP.	S.HALLOWELL		
PROJECT NO:	21163	DESIGNED BY:	W.EDGERTON
SUBMISSION:	CONTRACT DRAWINGS	SCALE:	AS NOTED
CAD COORD:	A.COUTURE	DATE:	APRIL 2025

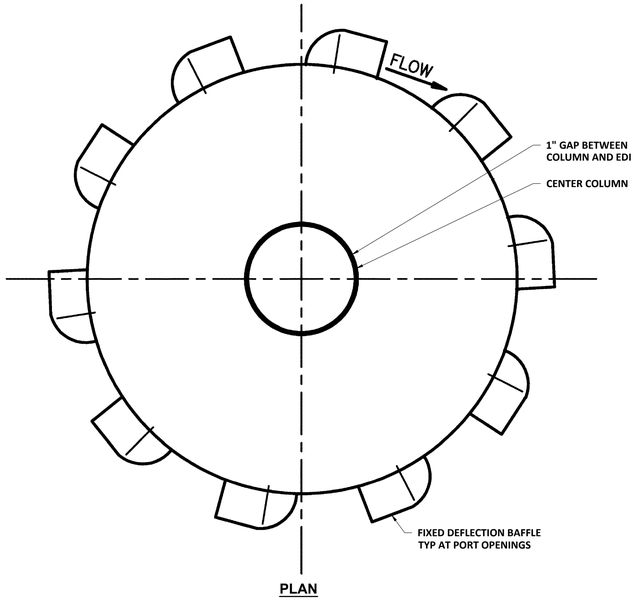
PR-50-102

DWG. No. 12221-W-33

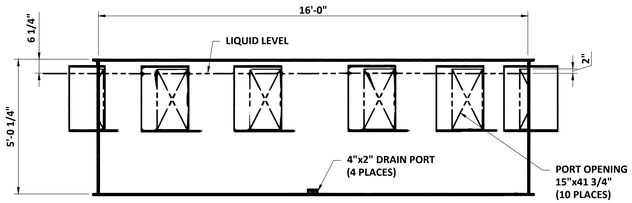
SET NO. | SHEET NO. 49 of 92

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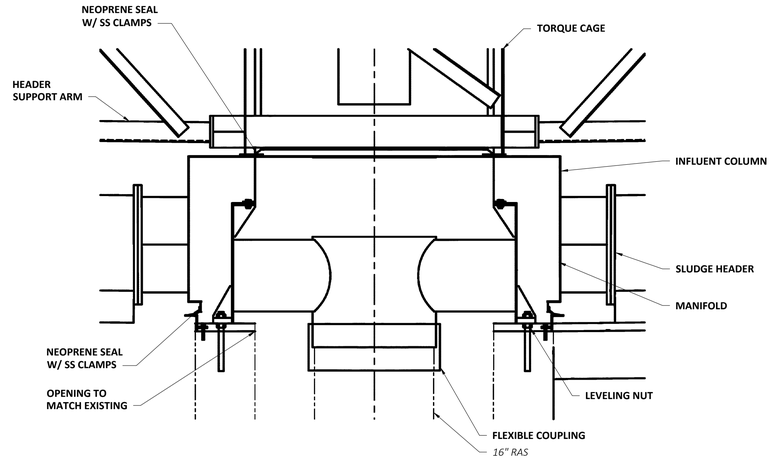
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SECTION

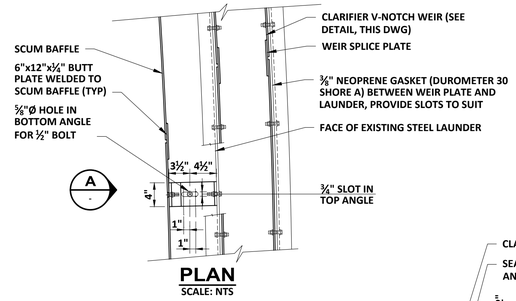
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SCALE: NTS



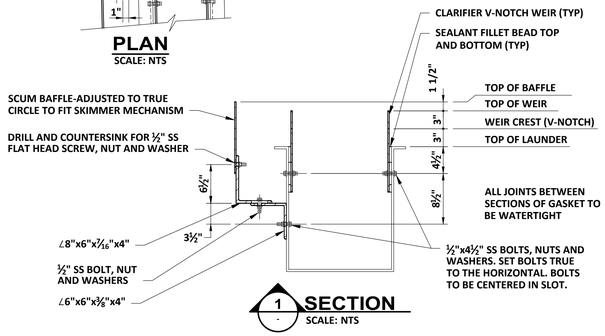
SLUDGE DRUM

SCALE: NTS



PLAN

SCALE: NTS



1 SECTION

SCALE: NTS

ELEVATION "A"

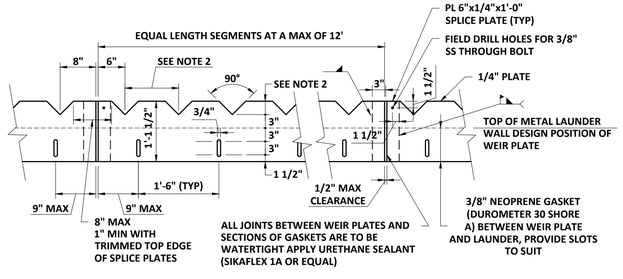
SCALE: NTS

SCUM BAFFLE AND CLARIFIER WEIR DETAIL

SCALE: NTS

NOTES:

1. SCUM BAFFLE DEPTH SHALL EXTEND TO 18" BELOW WATER LEVEL AT THE SCUM TROUGH, AND EXTEND 5' ON EITHER SIDE OF THE SCUM TROUGH.
2. MATERIALS OF CONSTRUCTION PER SPEC SECTION 05500.



CLARIFIER WEIR DETAIL

SCALE: NTS

NOTE:

1. TYPICAL SECONDARY CLARIFIER WEIR DETAIL IS INCLUDED TO PROVIDE GENERAL FIELD CONSTRUCTION AND MATERIAL THICKNESS REQUIREMENTS FOR FABRICATION AND INSTALLATION PURPOSES. THE CONTRACTOR SHALL FIELD VERIFY EXISTING WEIR V-NOTCH SPACING, DIMENSIONS, AND INVERT ELEVATIONS, AND INCORPORATE INTO THE SHOP DRAWING SUBMITTAL FOR THE ENGINEER'S REVIEW. CONTRACTOR TO PROVIDE SKETCH OF FIELD MEASUREMENTS TO ENGINEER FOR REFERENCE.
2. V-NOTCH SPACING, DEPTH AND ELEVATIONS TO MATCH EXISTING WEIRS. CONTRACTOR TO FIELD VERIFY EXISTING WEIR DETAILS AND ELEVATIONS PRIOR TO SUBMITTING SHOP DRAWING.

FULL SHEET BID ALTERNATES

GENERAL NOTES:

1. FOR GENERAL PROCESS AND DEMOLITION NOTES, REFER TO DRAWINGS PR-00-001. FOR LEGEND AND ABBREVIATIONS, REFER TO DRAWINGS PR-00-002.
2. IN GENERAL, WORK DESCRIBED IN THESE NOTES AND ON THE DRAWINGS ARE TYPICAL FOR CLARIFIERS NO.6, 7, & 8.
3. CONTRACTOR TO PERFORM STRUCTURAL REPAIRS TO THE CLARIFIER CONCRETE SURFACE AS DETERMINED BY ENGINEER.
4. ALL WORK INCLUDED IN THIS SHEET FALLS UNDER BID ALTERNATES "A", "B", AND "C" AS DESCRIBED IN SPECIFICATION SECTION 01100 – ALTERNATES.

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe046278
PROFESSIONAL ENGINEER
4/30/2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

CLARIFIER DETAILS

DR. A.COUTURE	
TRC. -	
CK. D.STILES	
AP. S.HALLOWELL	
PROJECT NO: 21163	DESIGNED BY: W.EDGERTON
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	
SCALE: AS NOTED	
DATE: APRIL 2025	

PR-50-501

DWG. No. 12221-W-33

SET NO. | SHEET NO. 50 of 92

J:\ENG\LA\NEWORLEANS\21163-EASTBANKSTP PHASE_I_WW_IMPROVEMENTS_DRAWINGS\PHASE-1A\PRO\21163-PRS-CLARIFIER.DWG | Details | 110.1284677 | — | 4/25/2025 10:36:44 AM | ADAM.COUTURE

LAST SAVED BY: ADAM.COUTURE 6/6/2024 2:49 PM

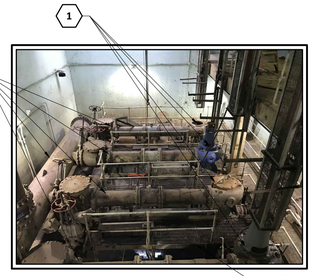


PHOTO 1

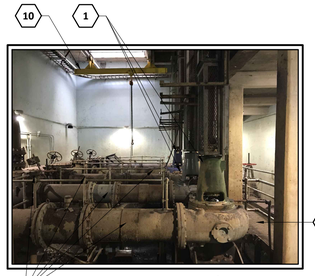


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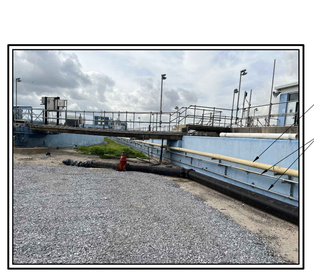


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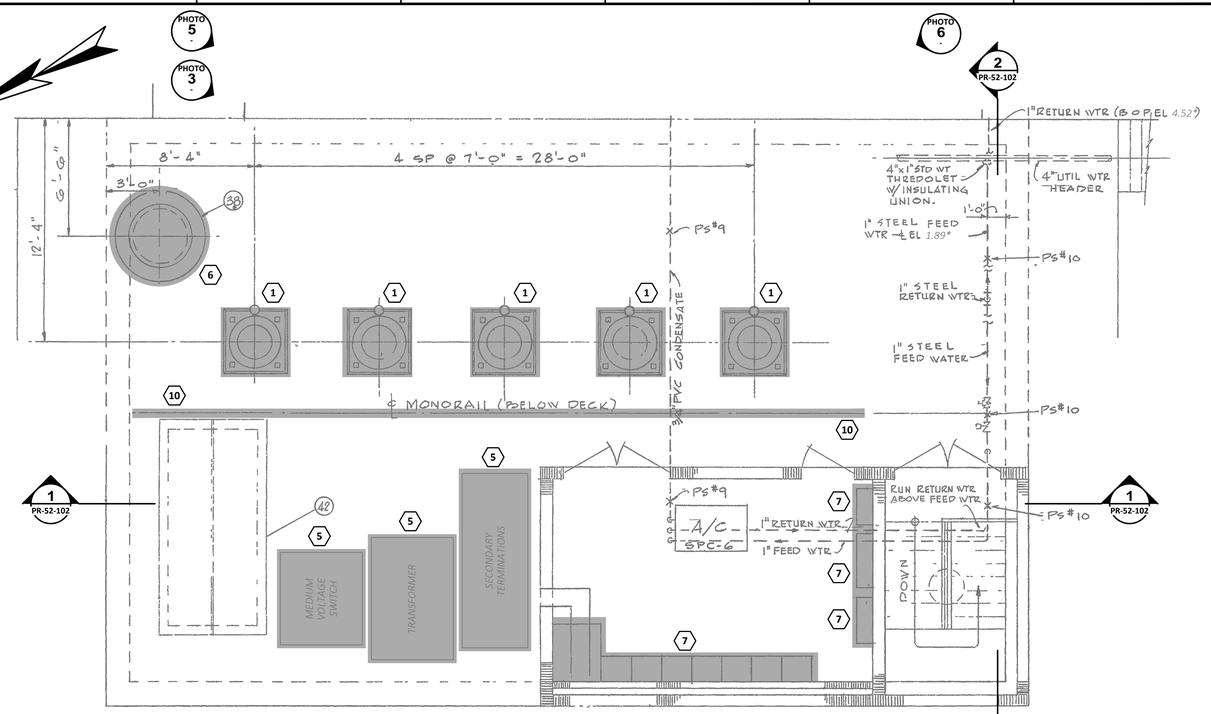
PHOTO 3



PHOTO 4



PHOTO 6



DEMOLITION PLAN @ EL 30.42

SCALE: "SCANNED"
(APPROXIMATELY: 1/4"=1'-0")

DEMOLITION PLAN @ EL 17.00

SCALE: "SCANNED"
(APPROXIMATELY: 1/4"=1'-0")



PHOTO 7

DEMOLITION NOTES:

1. REMOVE/DEMOLISH THE EXISTING RAS PUMPS IN THEIR ENTIRETY, INCLUDING BUT NOT LIMITED TO; PUMPS, EQUIPMENT PADS, MOTORS, ELECTRICAL CONDUIT AND WIRING, DISCONNECTS, CONTROLS, AND ALL OTHER ASSOCIATED APPURTENANCES.
2. REMOVE/DEMOLISH THE EXISTING RAS PIPING IN ITS ENTIRETY, INCLUDING BUT NOT LIMTED TO; PIPING TO THE EXTENTS SHOWN, VALVES, SUPPORTS, AND ALL OTHER ASSOCIATED APPURTENANCES.
3. REMOVE/DEMOLISH THE EXISTING SUMP PUMPS IN THEIR ENTIRETY, INCLUDING BUT NOT LIMITED TO; PUMPS, ELECTRICAL CONDUIT AND WIRING, DISCONNECTS, CONTROLS, AND ALL OTHER ASSOCIATED APPURTENANCES.
4. REMOVE/DEMOLISH EXISTING GRATING IN ITS ENTIRETY.
5. REMOVE/DEMOLISH THE EXISTING SECONDARY TERMINATIONS, TRANSFORMER, AND MEDIUM VOLTAGE SWITCH.
6. REMOVE/DEMOLISH THE EXISTING SUPPLY FAN IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO; FAN, DUCT, CONCRETE CURB, SUPPORTS, ELECTRICAL CONDUIT AND WIRING, DISCONNECTS, CONTROLS, AND ALL OTHER ASSOCIATED APPURTENANCES.
7. REMOVE/DEMOLISH THE EXISTING ELECTRICAL EQUIPMENT IN THEIR ENTIRETY, INCLUDING BUT NOT LIMITED TO; CONTROL PANELS, MCC, ELECTRICAL CONDUIT AND WIRING, DISCONNECTS, CONTROLS, AND ALL OTHER ASSOCIATED APPURTENANCES.
8. REMOVE/DEMOLISH THE EXISTING ABANDONED PIPING AS NECESSARY TO FACILITATE INSTALLATION OF THE NEW ELECTRICAL BUILDING. CAP EXISTING.
9. REMOVE/RELOCATE THE EXISTING PIPING TO FACILITATE INSTALLATION OF THE NEW ELECTRICAL BUILDING.
10. REMOVE/DEMOLISH THE EXISTING BRIDGE CRANE SYSTEM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO; LIFTING HOOK, CHAIN OPERATOR, TROLLEY SYSTEM, WHEELS, SUPPORT BEAMS, AND ALL OTHER ASSOCIATED APPURTENANCES.
11. CONTRACTOR TO INFILL PIPE OPENINGS AS NECESSARY AND BASED ON ACTUAL RETURN SLUDGE PIPE PENETRATION FROM CLARIFIERS NO.5 AND NO.7. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL NOTES:

1. FOR GENERAL PROCESS AND DEMOLITION NOTES, REFER TO DRAWINGS PR-00-001. FOR LEGEND AND ABBREVIATIONS, REFER TO DRAWINGS PR-00-002.
2. CONTRACTOR TO NOTE A SCANNED IMAGE OF THE EXISTING CONTRACT DRAWINGS HAS BEEN USED FOR THE NORTH RAS PUMP STATION DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BIDDING AND/OR COMMENCING CONSTRUCTION. FOR INFORMATION PERTAINING TO EXISTING CONTRACT DRAWINGS, REFER TO THE PROCESS GENERAL NOTES, DWG PR-00-001.

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe0046278
PROFESSIONAL ENGINEER
4/30/2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163	DESIGNED BY: W.EDGERTON
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

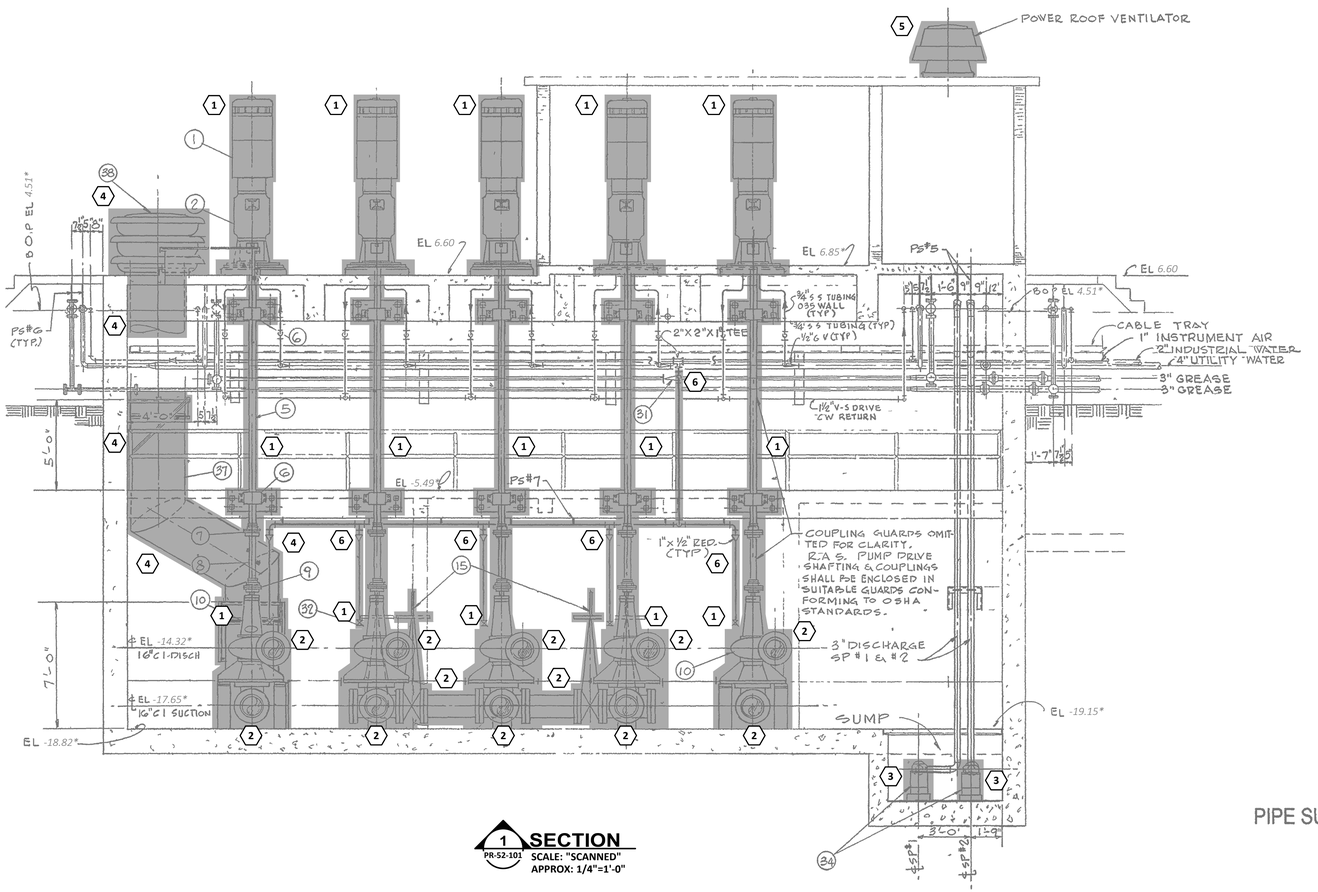
NORTH RAS PUMP STATION DEMOLITION PLANS

DR. A.COUTURE	PR-52-101
TRC. -	
CK. D.STILES	
AP. S.HALLOWELL	DWG. No. 12221-W-33
SCALE: AS NOTED	
DATE: APRIL 2025	SET NO. SHEET NO. 51 of 92

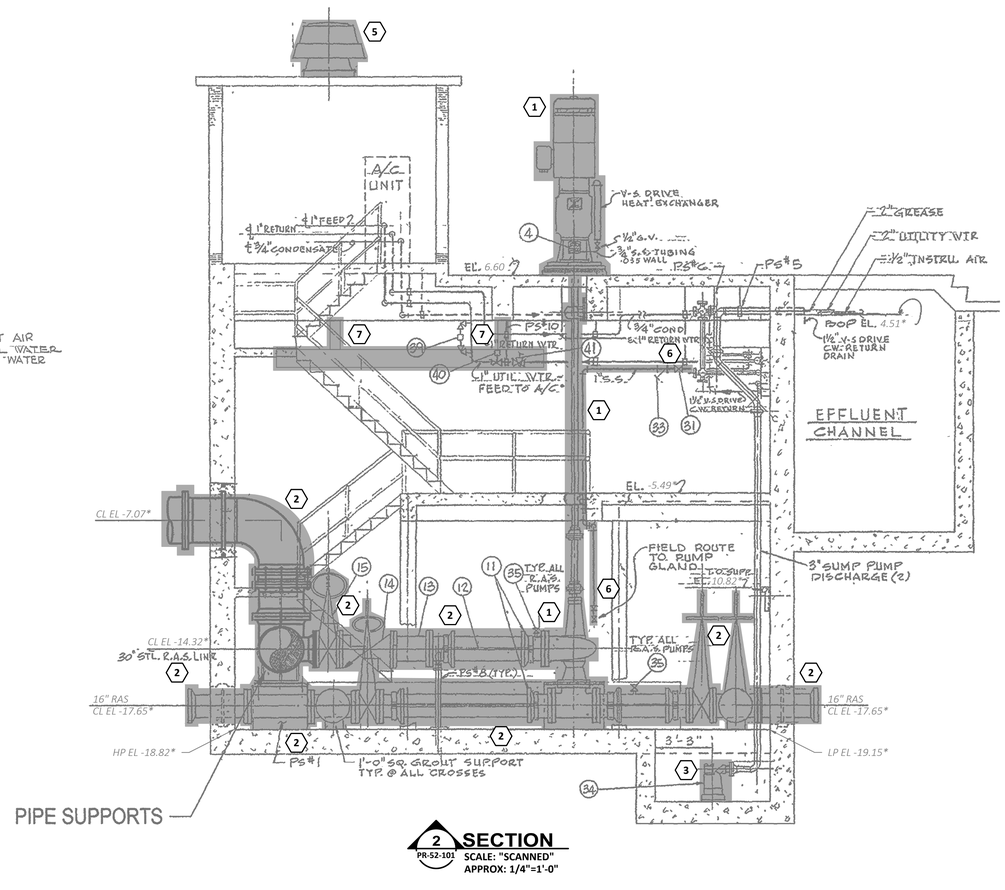
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LAST SAVED BY: ADAM.COUTURE 6/6/2024 2:49 PM

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1 SECTION
PR-52-101 SCALE: "SCANNED" APPROX: 1/4"=1'-0"



2 SECTION
PR-52-101 SCALE: "SCANNED" APPROX: 1/4"=1'-0"

DEMOLITION NOTES:

1. REMOVE/DEMOLISH THE EXISTING RAS PUMPS IN THEIR ENTIRETY, INCLUDING BUT NOT LIMITED TO; PUMPS, EQUIPMENT PADS, MOTORS, ELECTRICAL CONDUIT AND WIRING, DISCONNECTS, CONTROLS, AND ALL OTHER ASSOCIATED APPURTENANCES.
2. REMOVE/DEMOLISH THE EXISTING RAS PIPING IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO; PIPING TO THE EXTENTS SHOWN, VALVES, SUPPORTS, AND ALL OTHER ASSOCIATED APPURTENANCES.
3. REMOVE/DEMOLISH THE EXISTING SUMP PUMPS IN THEIR ENTIRETY, INCLUDING BUT NOT LIMITED TO; PUMPS, ELECTRICAL CONDUIT AND WIRING, DISCONNECTS, CONTROLS, AND ALL OTHER ASSOCIATED APPURTENANCES.
4. REMOVE/DEMOLISH THE EXISTING SUPPLY FAN IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO; FAN, DUCT, CONCRETE CURB, SUPPORTS, ELECTRICAL CONDUIT AND WIRING, DISCONNECTS, CONTROLS, AND ALL OTHER ASSOCIATED APPURTENANCES.
5. REMOVE/DEMOLISH THE EXISTING EXHAUST FAN IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO; FAN, DUCT, SUPPORTS, ELECTRICAL CONDUIT AND WIRING, DISCONNECTS, CONTROLS, AND ALL OTHER ASSOCIATED APPURTENANCES.
6. REMOVE/DEMOLISH THE EXISTING PUMP SEAL WATER SYSTEMS IN THEIR ENTIRETY, INCLUDING BUT NOT LIMITED TO; PIPING, VALVES, FITTINGS, SUPPORTS, GAUGES, AND ALL OTHER ASSOCIATED APPURTENANCES. DEMOLISH SEAL WATER PIPING BACK TO THE UTILITY WATER HEADER AND CAP PIPING AT THE BRANCH.
7. REMOVE/DEMOLISH THE EXISTING BRIDGE CRANE SYSTEM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO; LIFTING HOOK, CHAIN OPERATOR, TROLLEY SYSTEM, WHEELS, SUPPORT BEAMS, AND ALL OTHER ASSOCIATED APPURTENANCES.

GENERAL NOTES:

1. FOR GENERAL PROCESS AND DEMOLITION NOTES, REFER TO DRAWINGS PR-00-001. FOR LEGEND AND ABBREVIATIONS, REFER TO DRAWINGS PR-00-002.
2. CONTRACTOR TO NOTE A SCANNED IMAGE OF THE EXISTING CONTRACT DRAWINGS HAS BEEN USED FOR THE NORTH RAS PUMP STATION DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BIDDING AND/OR COMMENCING CONSTRUCTION. FOR INFORMATION PERTAINING TO EXISTING CONTRACT DRAWINGS, REFER TO THE PROCESS GENERAL NOTES, DWG PR-00-001.

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STEVEN CHARLES HALLOWELL
License No. Pe0046278
PROFESSIONAL ENGINEER
STATE OF LOUISIANA
4/30/2025

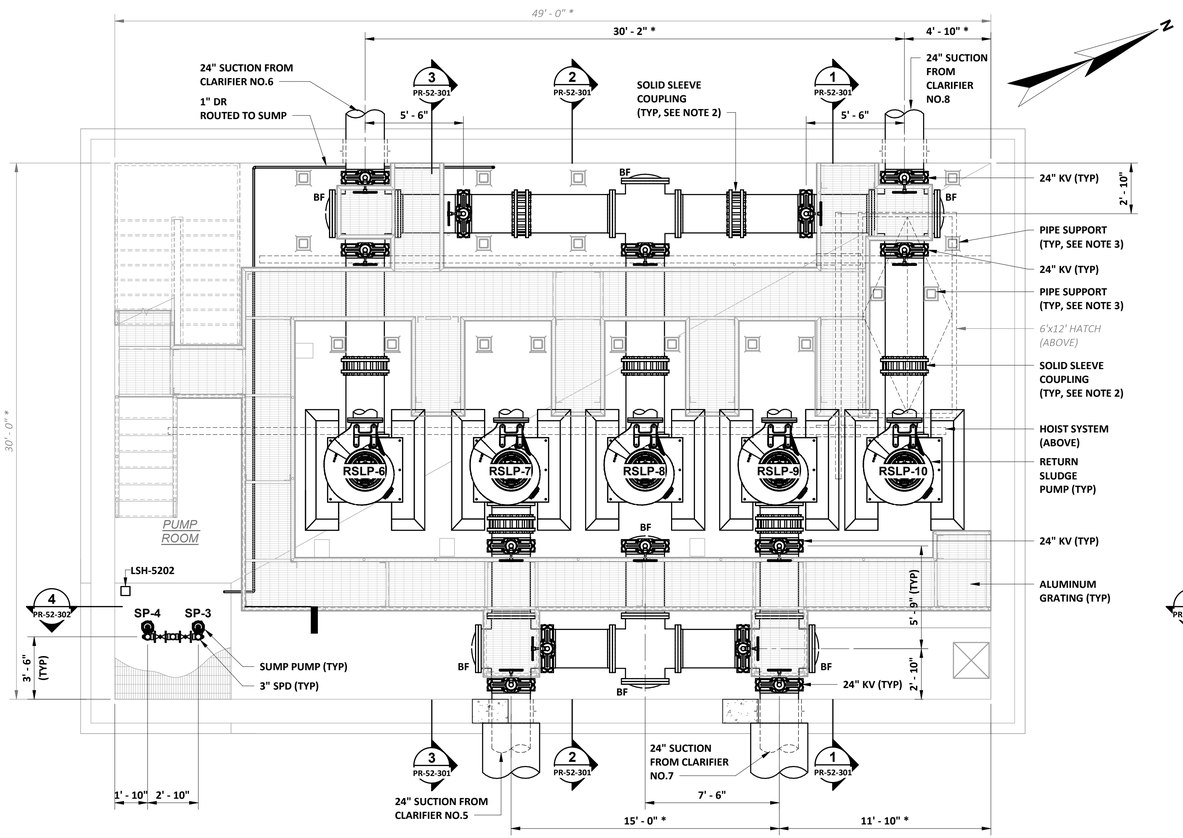
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407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

NORTH RAS PUMP STATION DEMOLITION SECTIONS

DR. A.COUTURE	
TRC. -	**PR-52-102**
CK. D.STILES	
AP. S.HALLOWELL	**DWG. No. 12221-W-33**
SCALE: AS NOTED	
DATE: APRIL 2025	SET NO. SHEET NO. 52 of 92

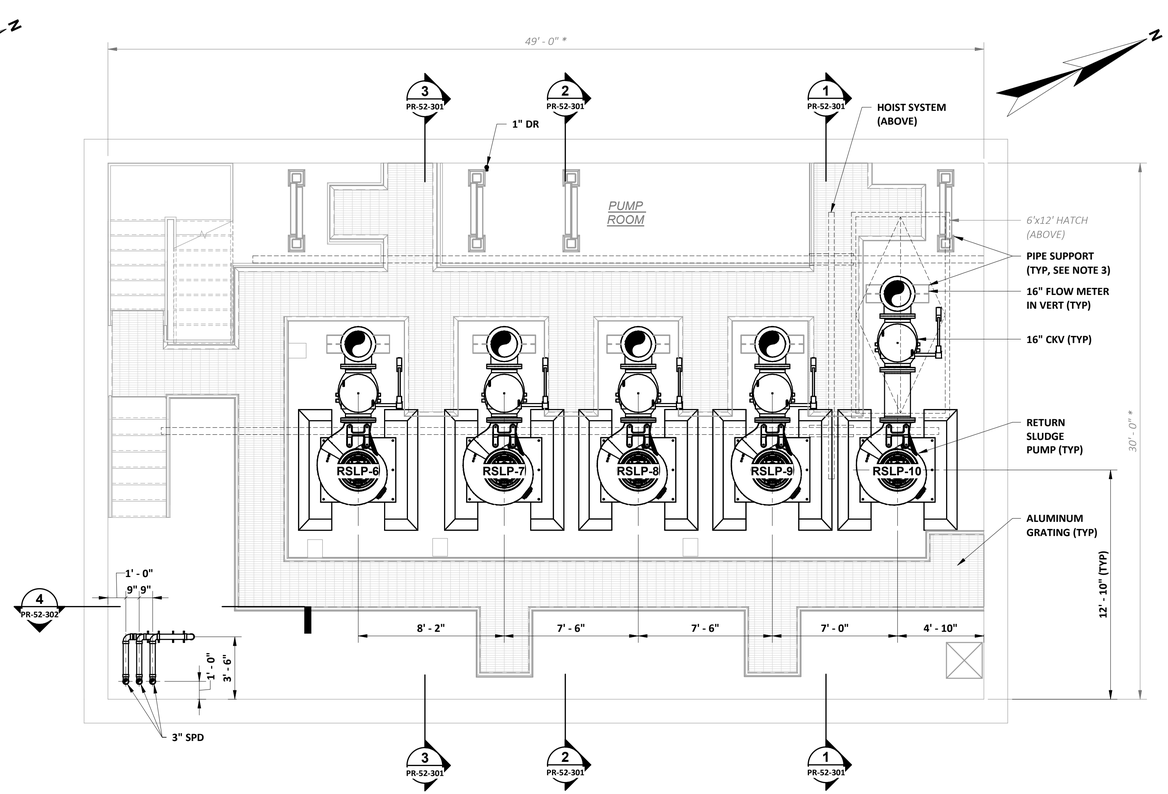
PROJECT NO: 21163 | DESIGNED BY: W.EDGERTON
SUBMISSION: CONTRACT DRAWINGS
CAD COORD: A.COUTURE

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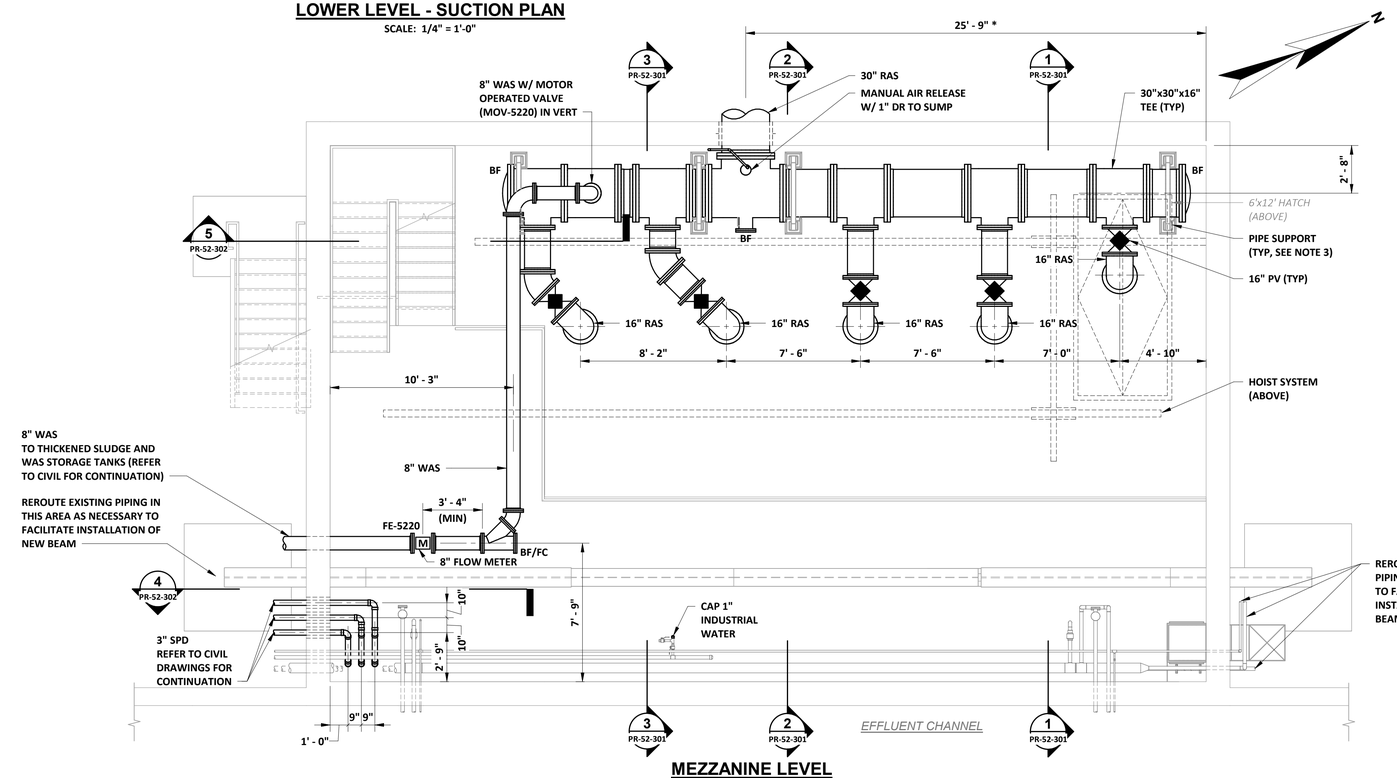
LOWER LEVEL - SUCTION PLAN

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



LOWER LEVEL - DISCHARGE PLAN

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



MEZZANINE LEVEL

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

GENERAL NOTES:

1. FOR GENERAL PROCESS AND DEMOLITION NOTES, REFER TO DRAWINGS PR-00-001. FOR LEGEND AND ABBREVIATIONS, REFER TO DRAWINGS PR-00-002.
2. ALL COUPLINGS ARE TO BE RODDED BACK TO THE NEAREST FITTINGS W/ 316 SS THREADED RODS AND HARDWARE.
3. PIPING SUPPORTS AND RESTRAINTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PER SPECIFICATION SECTION 15094. CONCEPTUAL CRITICAL PIPE SUPPORT SYSTEMS HAVE BEEN ILLUSTRATED BY THE ENGINEER FOR GUIDANCE PURPOSES ONLY. HOWEVER, THIS DOES NOT RELIEVE THE CONTRACTOR FROM LOCATING/DESIGNING AND/OR PROVIDING ALL STATIC AND DYNAMIC SUPPORTS IN ACCORDANCE WITH 15094.
4. REFER TO THE STRUCTURAL DRAWINGS FOR INFORMATION ON THE ALUMINUM GRATING AROUND THE RETURN SLUDGE PUMPS, VALVES, AND PIPING.

REV.	DATE	DESCRIPTION	BY
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe0046278
PROFESSIONAL ENGINEER
4/30/2025

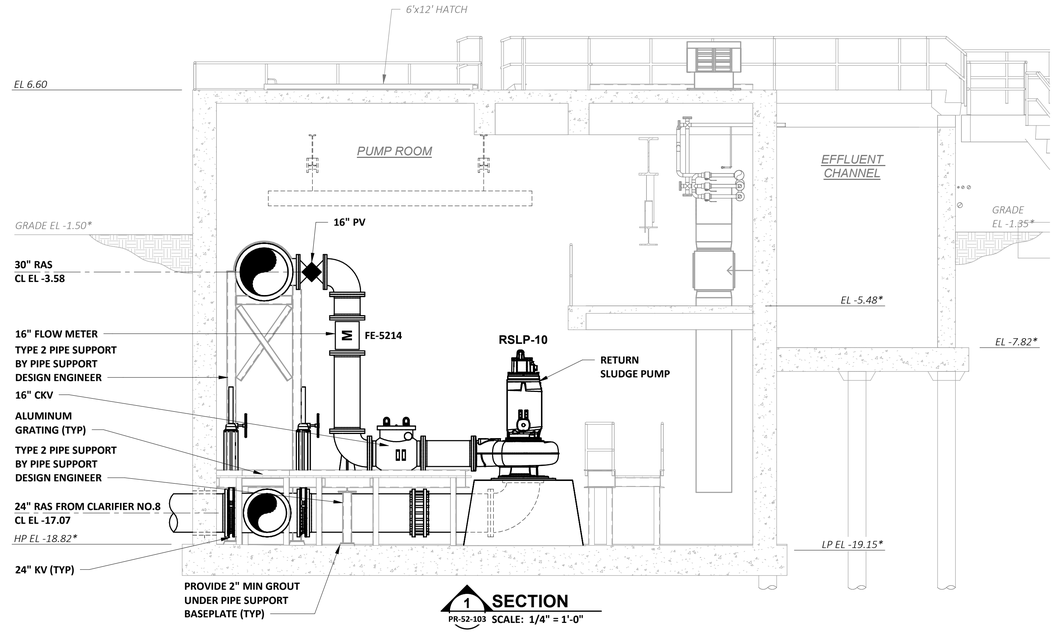
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601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

NORTH RAS PUMP STATION MODIFICATION PLANS

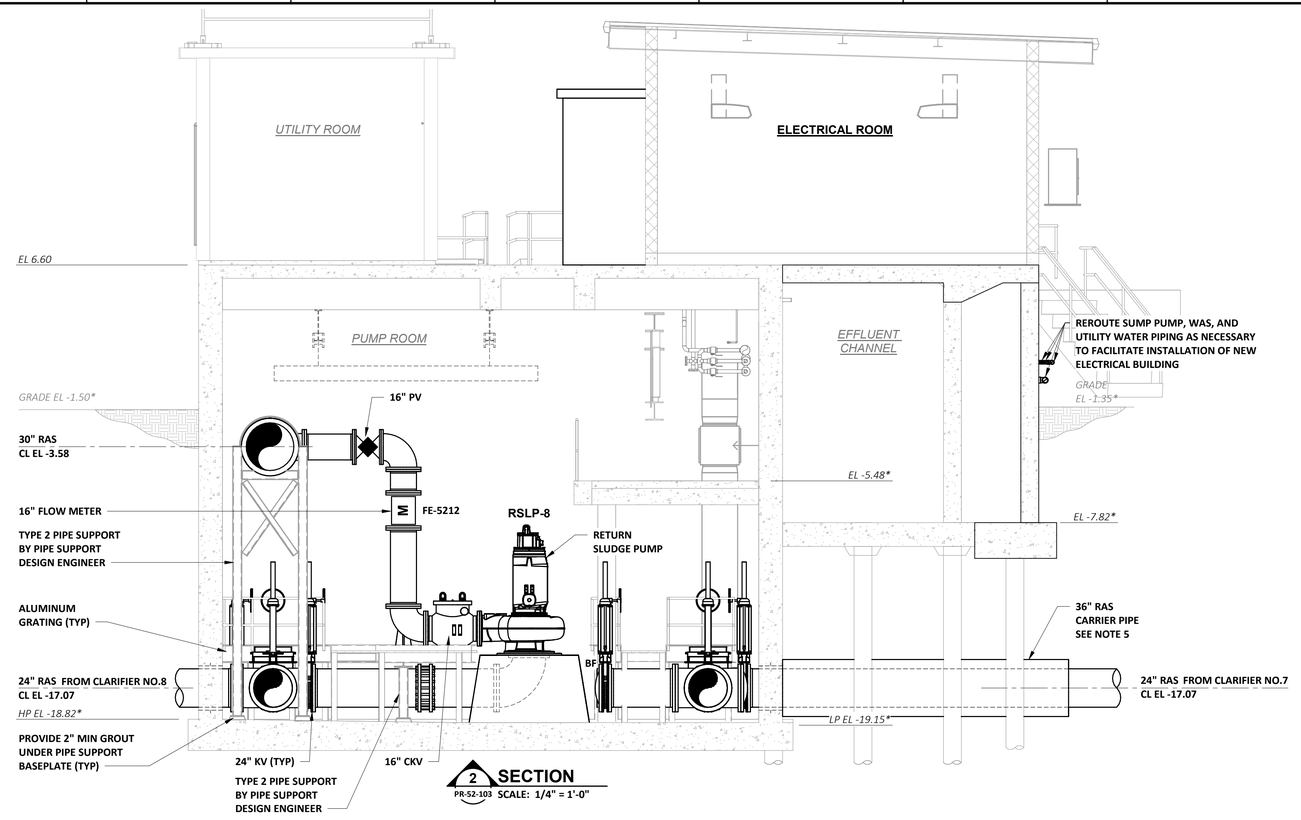
DR. A.COUTURE	**PR-52-103**
TRC. -	
CK. D.STILES	
AP. S.HALLOWELL	**DWG. No. 12221-W-33**
PROJECT NO: 21163 / DESIGNED BY: W.EDGERTON	SCALE: AS NOTED
SUBMISSION: CONTRACT DRAWINGS	DATE: APRIL 2025 / SET NO. / SHEET NO. 53 of 92
CAD COORD: A.COUTURE	

Autodesk Docs://LA-NewOrleans-21163-EastBank-STP-Phase/21163-PRM-RAS-PS-North.rvt

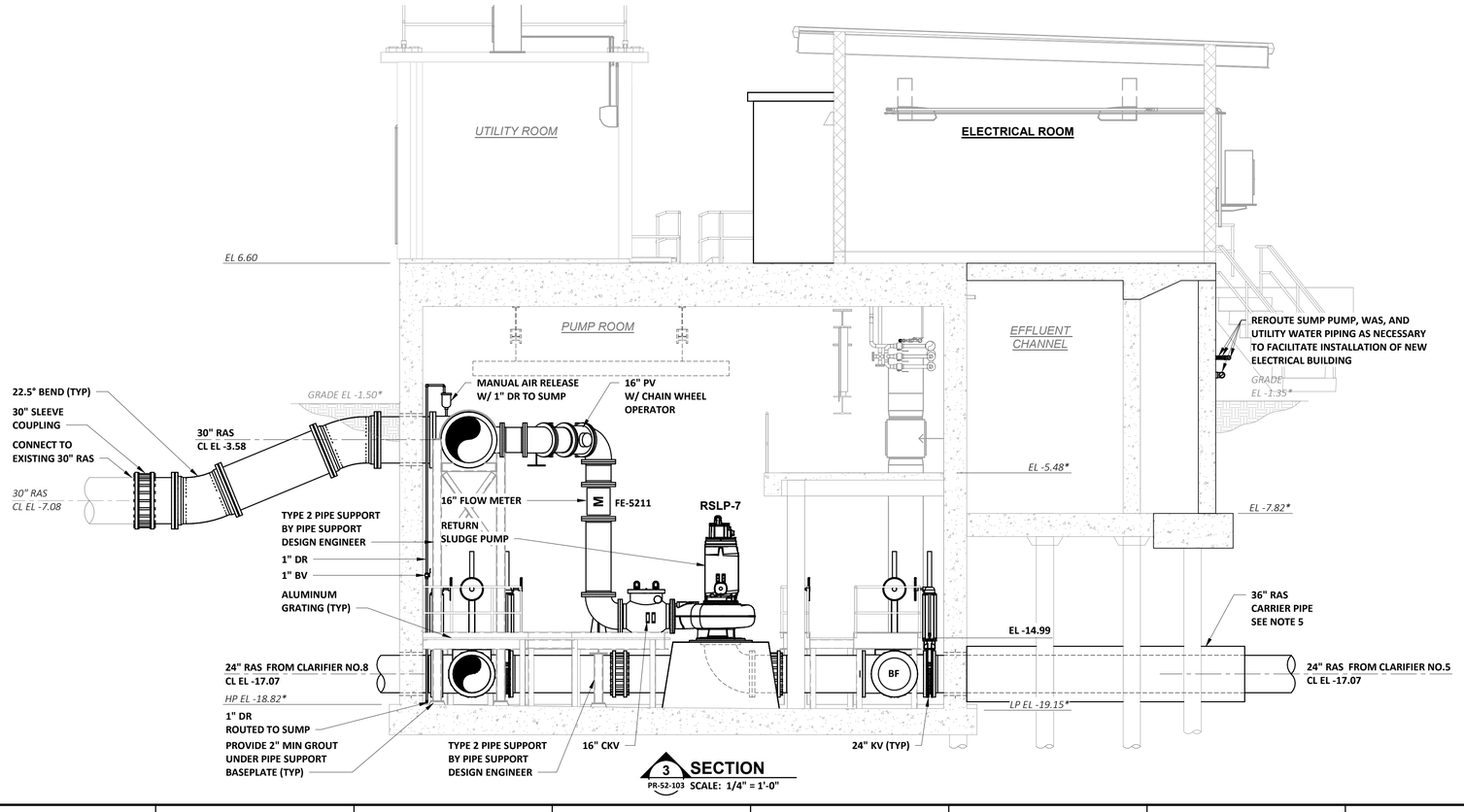
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1 SECTION
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2 SECTION
PR-52-103 SCALE: 1/4" = 1'-0"



3 SECTION
PR-52-103 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. FOR GENERAL PROCESS AND DEMOLITION NOTES, REFER TO DRAWINGS PR-00-001. FOR LEGEND AND ABBREVIATIONS, REFER TO DRAWINGS PR-00-002.
2. ALL COUPLINGS ARE TO BE RODDED BACK TO THE NEAREST FITTINGS W/ 316 SS THREADED RODS AND HARDWARE.
3. PIPING SUPPORTS AND RESTRAINTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PER SPECIFICATION SECTION 15094. CONCEPTUAL CRITICAL PIPE SUPPORT SYSTEMS HAVE BEEN ILLUSTRATED BY THE ENGINEER FOR GUIDANCE PURPOSES ONLY. HOWEVER, THIS DOES NOT RELIEVE THE CONTRACTOR FROM LOCATING/DESIGNING AND/OR PROVIDING ALL STATIC AND DYNAMIC SUPPORTS IN ACCORDANCE WITH 15094.
4. REFER TO THE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON THE ALUMINUM GRATING.
5. REFER TO THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON THE RETURN SLUDGE CARRIER AND RETURN SLUDGE PIPING TO THE CLARIFIERS.

REV.	DATE	DESCRIPTION	BY
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

NORTH RAS PUMP STATION MODIFICATION SECTIONS I

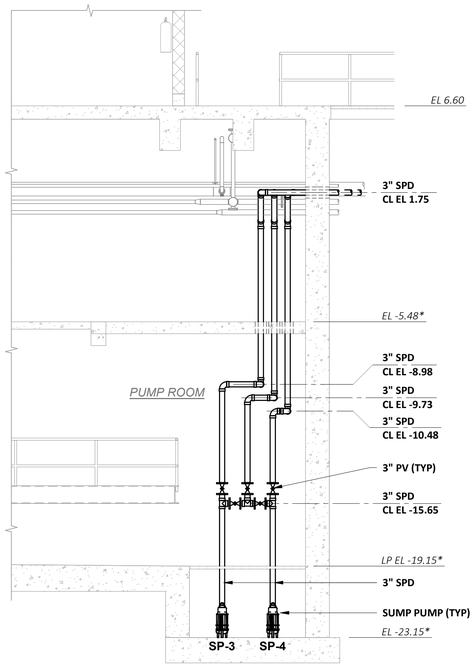
STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. PE046278
PROFESSIONAL ENGINEER
4/30/2025

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601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

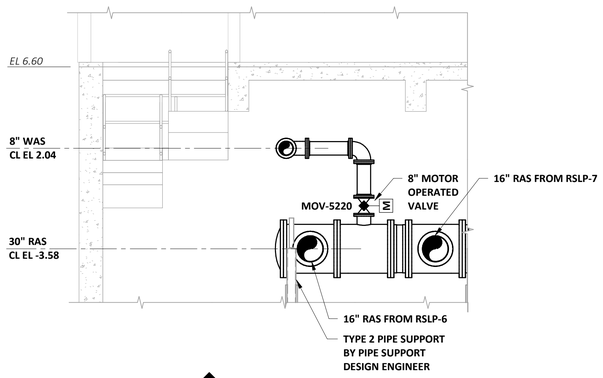
DR. A.COUTURE			PR-52-301
TRC. -			
CK. D.STILES			
AP. S.HALLOWELL			DWG. No. 12221-W-33
PROJECT NO: 21163	DESIGNED BY: W.EDGERTON	SCALE: AS NOTED	
SUBMISSION: CONTRACT DRAWINGS			
CAD COORD: A.COUTURE		DATE: APRIL 2025	SET NO. SHEET NO. 54 of 92

Autodesk Docs://1A-NewOrleans-21163-EastBank-STP-Phase/21163-PRM-RAS-PS-North.rvt

4/25/2025 10:42:50 AM



4 SECTION
PR-52-103 SCALE: 1/4" = 1'-0"



5 SECTION
PR-52-103 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. FOR GENERAL PROCESS AND DEMOLITION NOTES, REFER TO DRAWINGS PR-00-001. FOR LEGEND AND ABBREVIATIONS, REFER TO DRAWINGS PR-00-002.

2. PIPING SUPPORTS AND RESTRAINTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PER SPECIFICATION SECTION 15094. CONCEPTUAL CRITICAL PIPE SUPPORT SYSTEMS HAVE BEEN ILLUSTRATED BY THE ENGINEER FOR GUIDANCE PURPOSES ONLY. HOWEVER, THIS DOES NOT RELIEVE THE CONTRACTOR FROM LOCATING/DESIGNING AND/OR PROVIDING ALL STATIC AND DYNAMIC SUPPORTS IN ACCORDANCE WITH 15094.

REV.	DATE	DESCRIPTION	BY
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

NORTH RAS PUMP STATION MODIFICATION SECTIONS II

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe046278
PROFESSIONAL ENGINEER
4/30/2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

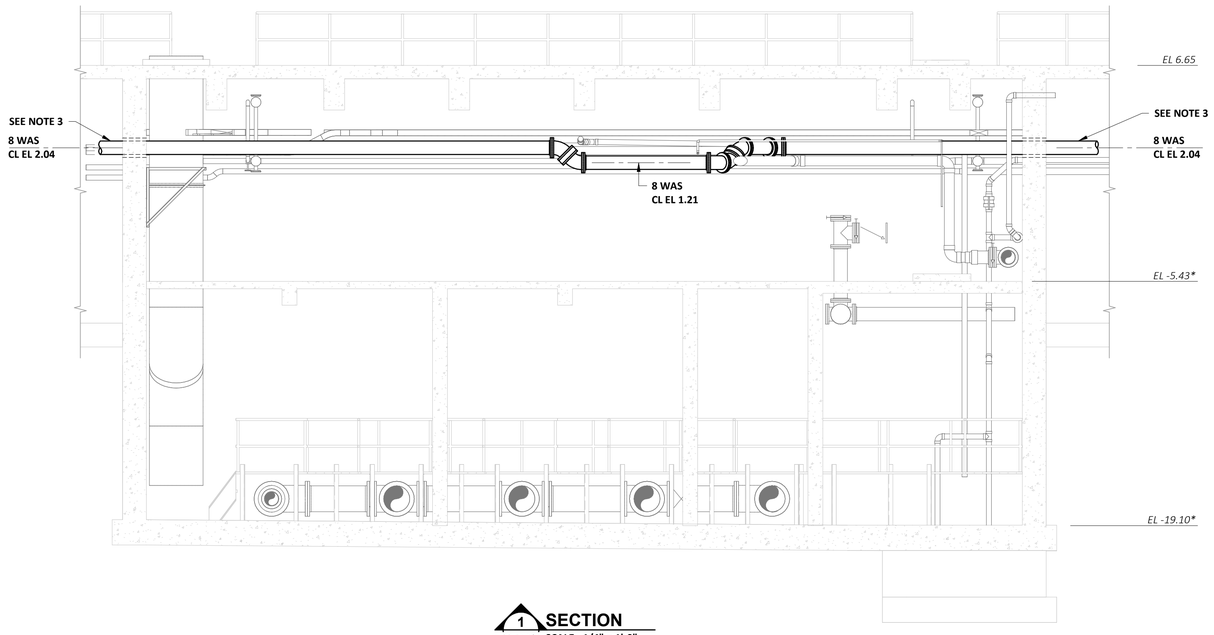
DR. A.COUTURE	
TRC. -	
CK. D.STILES	
AP. S.HALLOWELL	
PROJECT NO: 21163	DESIGNED BY: W.EDGERTON
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025

PR-52-302

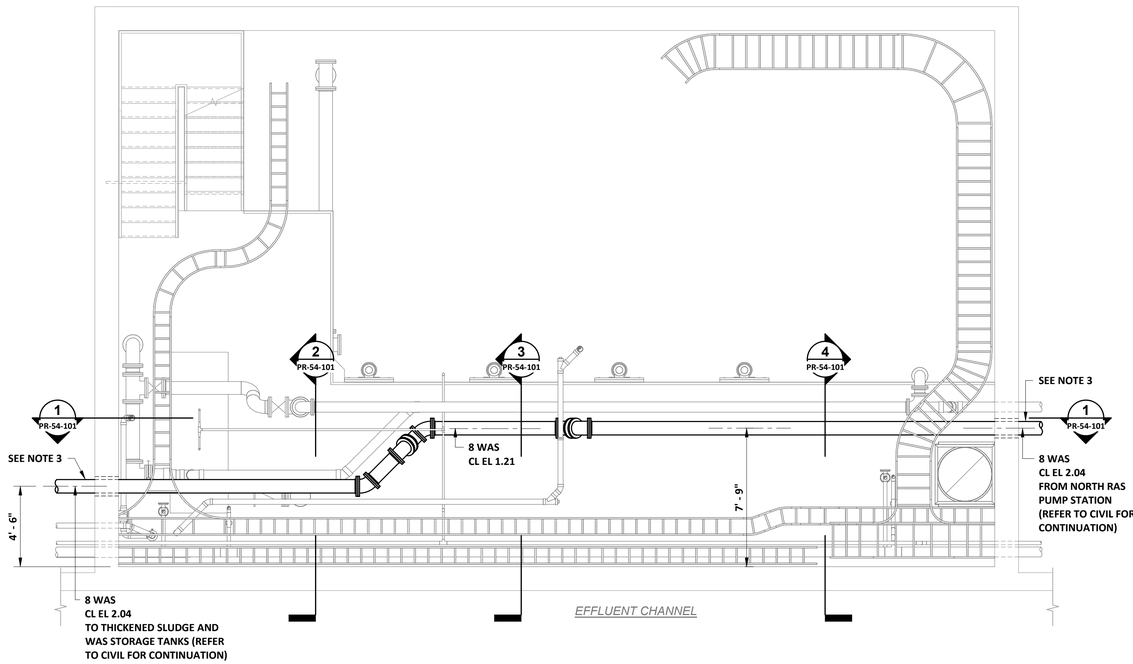
DWG. No. 12221-W-33

SET NO. | SHEET NO. 55 of 92

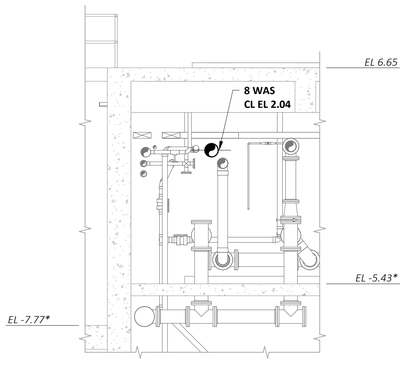
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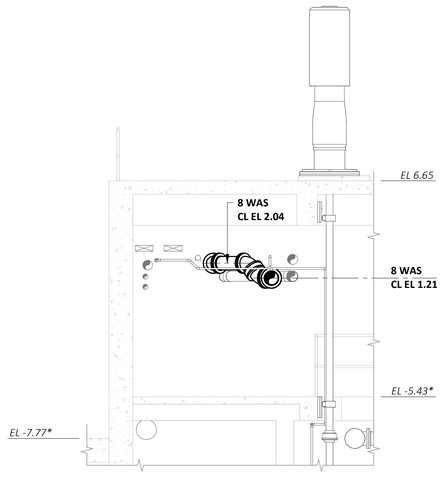
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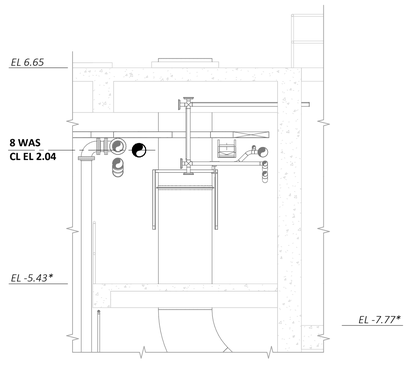
MEZZANINE LEVEL
SCALE: 1/4" = 1'-0"



2 PR-54-101 **SECTION**
SCALE: 1/4" = 1'-0"



3 PR-54-101 **SECTION**
SCALE: 1/4" = 1'-0"



4 PR-54-101 **SECTION**
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. FOR GENERAL PROCESS AND DEMOLITION NOTES, REFER TO DRAWINGS PR-00-001. FOR LEGEND AND ABBREVIATIONS, REFER TO DRAWINGS PR-00-002.
2. PIPING SUPPORTS AND RESTRAINTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PER SPECIFICATION SECTION 15094.
3. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS ON THE OUTSIDE AND INSIDE WALL PRIOR TO CORE DRILLING OPENINGS IN THE WALL. REFER TO THE PROCESS DRAWINGS FOR ADDITIONAL INFORMATION.

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe0046278
PROFESSIONAL ENGINEER
4/30/2025

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601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163		DESIGNED BY: W.EDGERTON	
SUBMISSION: CONTRACT DRAWINGS			
CAD COORD: A.COUTURE			

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

SOUTH RAS PUMP STATION MODIFICATIONS PLAN AND SECTIONS

DR. A.COUTURE	
TRC. -	
CK. D.STILES	
AP. S.HALLOWELL	
SCALE: AS NOTED	
DATE: APRIL 2025	SET NO. SHEET NO. 56 of 92

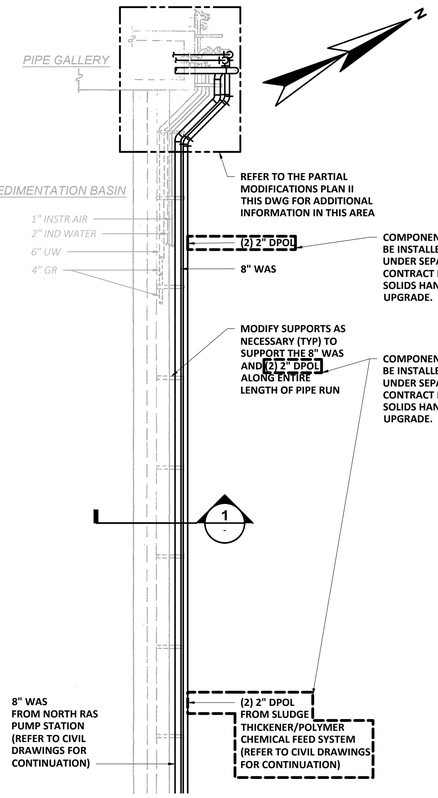
PR-54-101

DWG. No. 12221-W-33

Autodesk Docs://1A-NewOrleans-21163-EastBank-STP-Phase/21163-PRM-RAS-PS-South.rvt

LAST SAVED BY: ADAM.COUTURE 4/7/2025 11:01 AM

J:\ENG\LA\NEWORLEANS\21163-EASTBANKSTP PHASE_1_WW_IMPROVEMENTS_DRAWINGS\PHASE-1A\PRO\21163-PRS-EFFLUENTCHANNEL.DWG | Mod Sections | 1:10.12364677 | --- | 4/25/2025 10:37:05 AM | ADAM.COUTURE



PARTIAL MODIFICATIONS PLAN I

SCALE: "SCANNED"
(APPROXIMATELY: 1/8"=1'-0")



REMOVE/DEMOLISH EXISTING PIPE IN ITS ENTIRETY

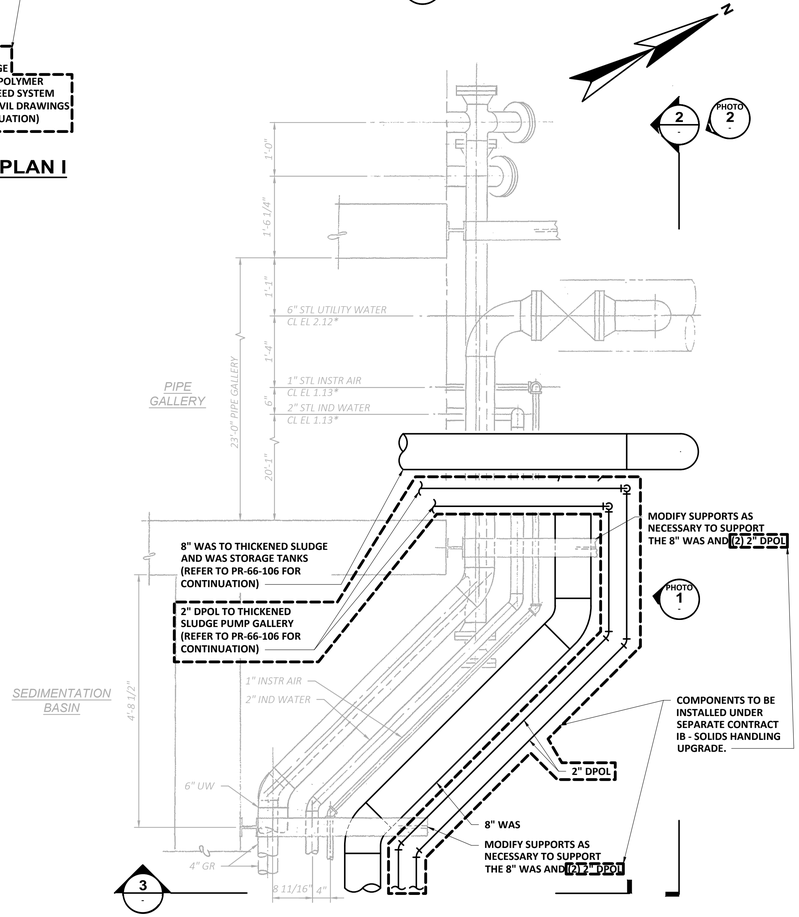
REMOVE/DEMOLISH EXISTING HOPPER AND CHUTE

PHOTO 1 -



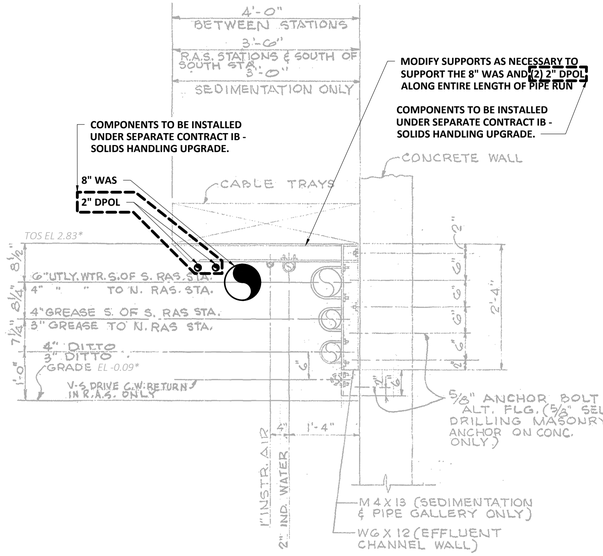
REMOVE/DEMOLISH EXISTING GREASE PIPES TO THE EXTENTS SHOWN REFER TO PR-66-103 FOR ADDITIONAL INFORMATION CAP AND ABANDON GREASE LINES

PHOTO 2 -

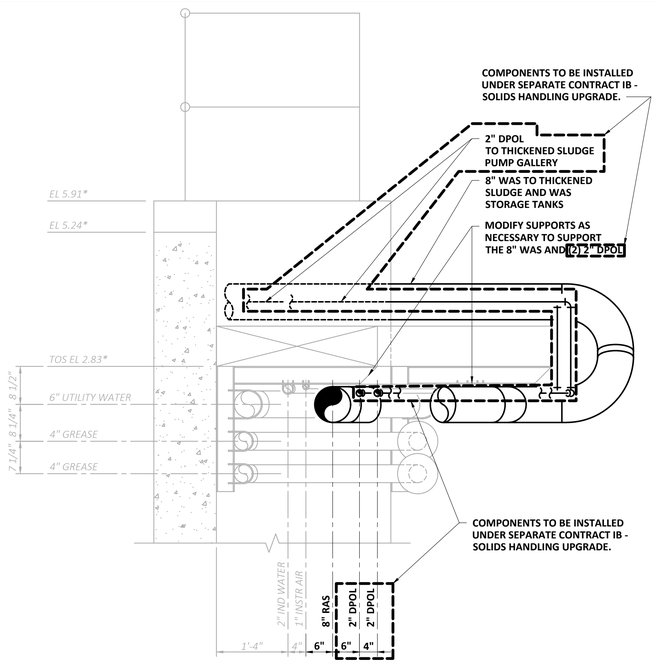


PARTIAL MODIFICATIONS PLAN II

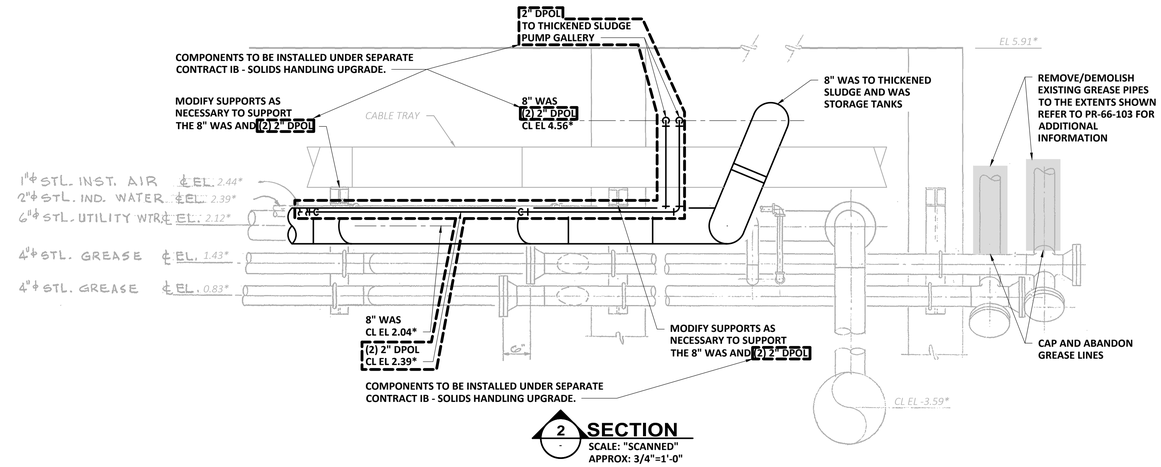
SCALE: "SCANNED"
(APPROXIMATELY: 3/4"=1'-0")



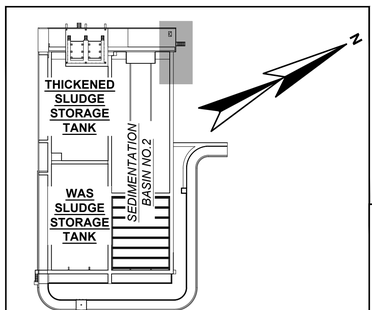
1 - SECTION
SCALE: "SCANNED"
APPROX: 3/4"=1'-0"



3 - SECTION
SCALE: "SCANNED"
APPROX: 3/4"=1'-0"



2 - SECTION
SCALE: "SCANNED"
APPROX: 3/4"=1'-0"



KEY PLAN

GENERAL NOTES:

1. FOR GENERAL PROCESS AND DEMOLITION NOTES, REFER TO DRAWINGS PR-00-001. FOR LEGEND AND ABBREVIATIONS, REFER TO DRAWINGS PR-00-002.
2. CONTRACTOR TO NOTE A SCANNED IMAGE OF THE EXISTING CONTRACT DRAWINGS HAS BEEN USED FOR THE EFFLUENT CHANNEL MODIFICATIONS. EXISTING INFORMATION HAS BEEN FADED BACK FOR CLARITY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BIDDING AND/OR COMMENCING CONSTRUCTION. FOR INFORMATION PERTAINING TO EXISTING CONTRACT DRAWINGS, REFER TO THE PROCESS GENERAL NOTES, DWG PR-00-001.
3. FOR PIPING SYSTEMS THAT REQUIRE DELEGATED PIPE SUPPORT DESIGN, THE CONTRACTOR SHALL SHALL FOLLOW THE REQUIREMENTS OF SPECIFICATION SECTION 15094 TO VERIFY EXISTING PIPE SUPPORTS CAN ADEQUATELY SUPPORT NEW PIPING (WHERE APPLICABLE).

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe0046278
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4/30/2025

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EFFLUENT CHANNEL MODIFICATION PLANS AND SECTIONS

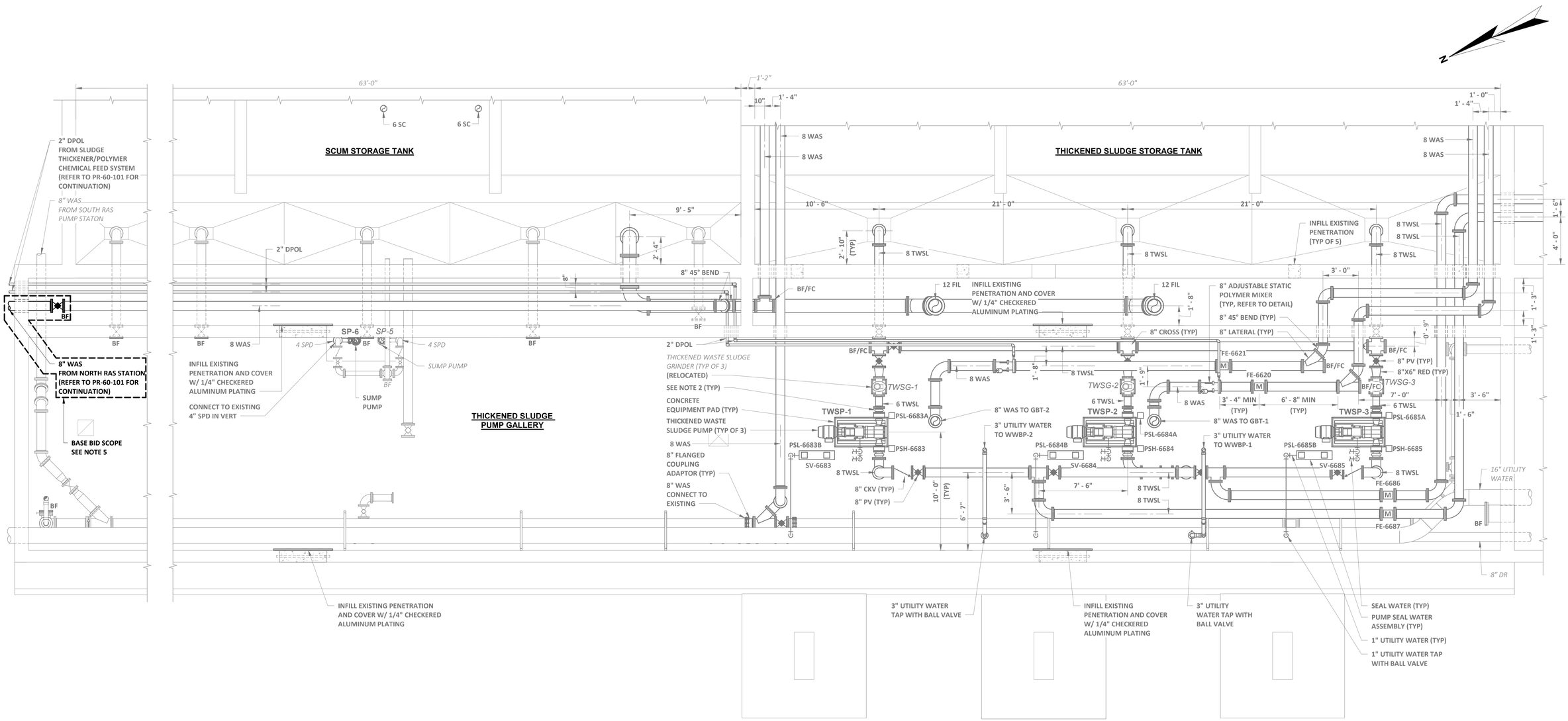
PROJECT NO: 21163	DESIGNED BY: W.EDGERTON
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

DR. A.COUTURE	
TRC. -	
CK. D.STILES	
AP. S.HALLOWELL	
SCALE: AS NOTED	
DATE: APRIL 2025	

PR-60-101

DWG. No. 12221-W-33

SET NO. | SHEET NO. 57 of 92



LOWER LEVEL MODIFICATIONS PLAN

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

GENERAL NOTES:

1. FOR GENERAL PROCESS AND DEMOLITION NOTES, REFER TO DRAWINGS PR-00-001. FOR LEGEND AND ABBREVIATIONS, REFER TO DRAWINGS PR-00-002.
2. CONTRACTOR SHALL VERIFY THICKENED WASTE SLUDGE PUMP PIPING CONNECTION FITTING TYPE WITH THE ACCEPTED PUMP MANUFACTURER. FLEXIBLE TYPE COUPLINGS ARE CURRENTLY SHOWN, HOWEVER RIGID SOLID SLEEVE COUPLINGS MAY BE REQUIRED.
3. REFER TO INSTRUMENTATION AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND DETAILS.
4. PIPING SUPPORTS AND RESTRAINTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PER SPECIFICATION SECTION 15094. PIPE FITTINGS FOR DYNAMIC FORCES HAVE BEEN SHOWN IN KEY AREAS, HOWEVER, THIS DOES NOT RELIEVE THE CONTRACTOR FROM LOCATING/DESIGNING AND/OR PROVIDING ALL STATIC AND DYNAMIC SUPPORTS.
5. BASE BID SCOPE TO INCLUDE EXTENDING 8-INCH WAS FROM NORTH RAS PUMP STATION INTO THE SEDIMENTATION BASIN INFLUENT CHANNEL WITH ISOLATION PLUG VALVE AND BLIND FLANGE AS ILLUSTRATED. THE REMAINING WORK ILLUSTRATED ON THIS SHEET, INCLUDING EXTENSION OF THE 8" WAS FROM THE BLIND FLANGE CONNECTION WILL BE PERFORMED UNDER A SEPARATE CONTRACT 1B - SOLIDS HANDLING UPGRADE.

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STEVEN CHARLES HALLOWELL
License No. Pe0046278
STATE OF LOUISIANA
PROFESSIONAL ENGINEER
4/30/2025

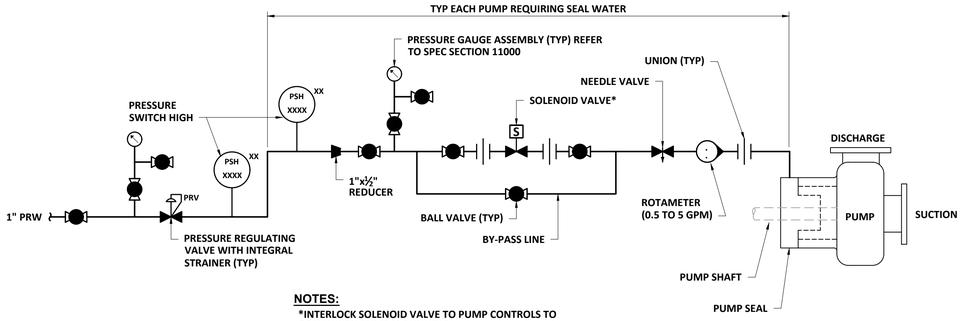
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SEDIMENTATION BASINS PIPE GALLERY MODIFICATIONS PLAN

DR. A.COUTURE	PR-66-101
TRC. -	
CK. D.STILES	
AP. S.HALLOWELL	DWG. No. 12221-W-33
PROJECT NO: 21163	DESIGNED BY: W.EDGERTON
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025
SET NO.	SHEET NO. 58 of 92

4/25/2025 10:46:43 AM
Autodesk Docs://1A-NewOrleans 21163-EastBank-STP-Phase/21163-PRIM SedimentationBasins-1A.rvt

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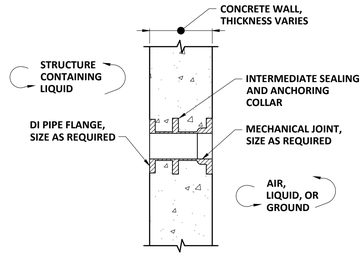
NOTES:

*INTERLOCK SOLENOID VALVE TO PUMP CONTROLS TO OPEN WHEN PUMP IS RUNNING.

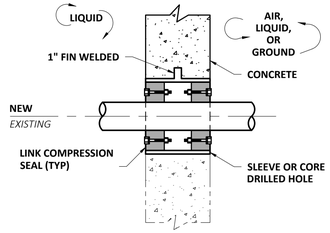
1. EACH SEAL SHALL BE CAPABLE OF BEING FED WITH NPW OR EW. REFER TO PROCESS AND DRAWINGS FOR TIE-IN LOCATIONS.

PUMP SEAL WATER SYSTEM SCHEMATIC HORIZONTAL SINGLE MECHANICAL SEAL

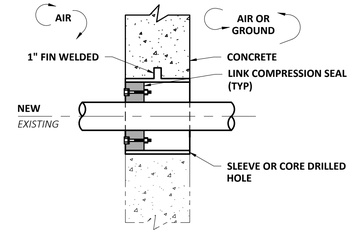
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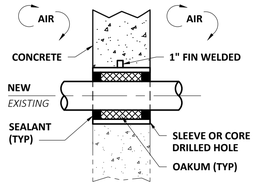
TANK WALL CASTING



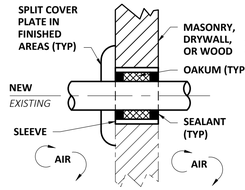
TANK WALL



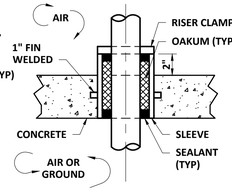
EXTERIOR WALL



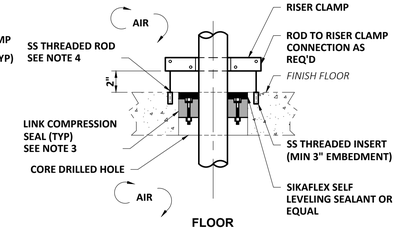
INTERIOR WALL/PARTITION



INTERIOR NON-LOAD BEARING PARTITION



FLOOR (NEW)



FLOOR (EXISTING WHERE ALLOWED)

NOTES:

1. REFER TO SPECIFICATION SECTION 15092 FOR REQUIREMENTS AND INFORMATION.
2. WALL CASTING CONNECTION SHOWN IS FLG TO MJ. PROVIDE TYPE OF WALL CASTING AS REQUIRED.
3. SET TOP OF LINK TYPE SEAL APPROXIMATE ½" TO ¼" BELOW FINISH FLOOR.
4. LINK SEAL SHALL NOT BE USED TO SUPPORT PIPE. THREADED ROD SHALL BE SIZED AS REQUIRED TO SUPPORT PIPE BOTH VERTICALLY AND HORIZONTALLY.

CONSTRUCTION PIPING PENETRATION DETAILS

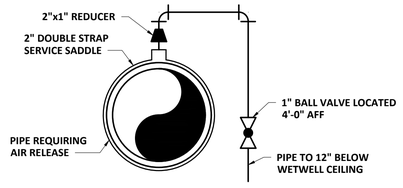
SCALE: NTS

NOTE:

1. PROVIDE ONE SUCTION GAUGE ASSEMBLY AND ONE DISCHARGE GAUGE ASSEMBLY PER PROCESS PUMP UNLESS OTHERWISE SPECIFIED. GAUGES SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 11000 AND 11310.

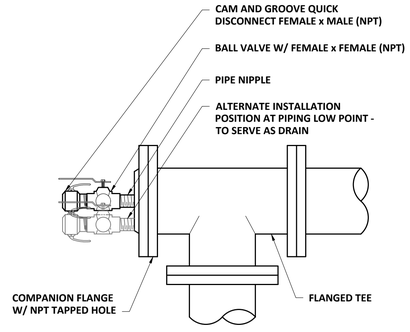
PIPE MOUNTED GAUGE ASSEMBLY

NTS



MANUAL AIR RELEASE DETAIL

SCALE: NTS

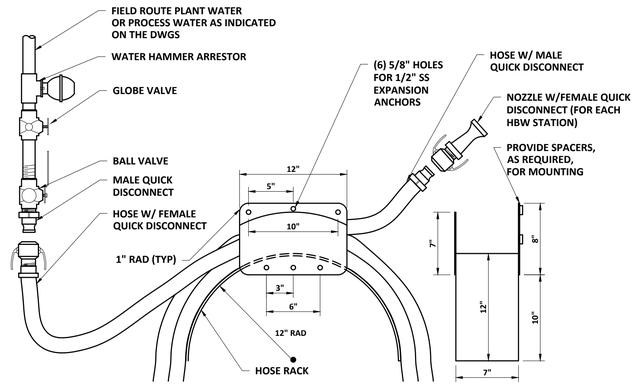


NOTE:

1. SEE PROCESS DRAWINGS AND SPECIFICATION SECTION 15200.

FLUSHING CONNECTION

SCALE: NTS



NOTES:

1. DETAIL IS FOR NON-POTABLE WATER APPLICATIONS IN ACCORDANCE WITH SPECIFICATION SECTION 15200. FOR POTABLE WATER HOSE BIBB AND APPURTENANCES, REFER TO SPECIFICATION SECTION 15401.
2. COORDINATE LOCATIONS WITH ENGINEER AND OWNER.

WASHDOWN (HBW) / FLUSHING (HBF) HOSE BIBB STATIONS

SCALE: NTS

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

DETAILS I

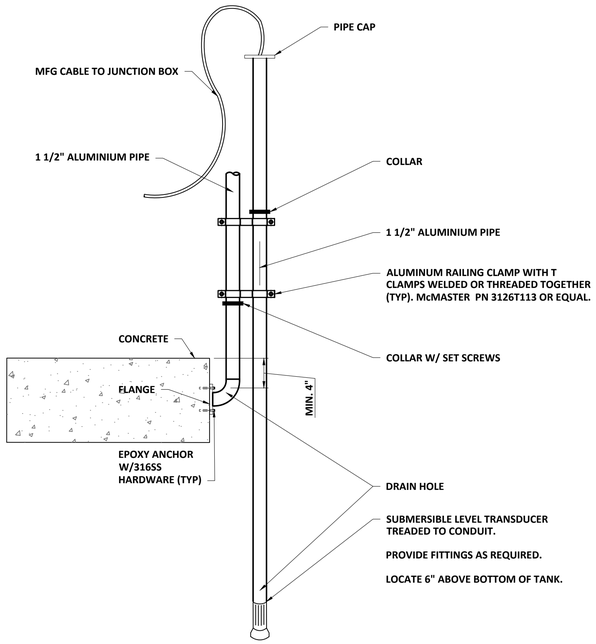
STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe046278
PROFESSIONAL ENGINEER
4/30/2025

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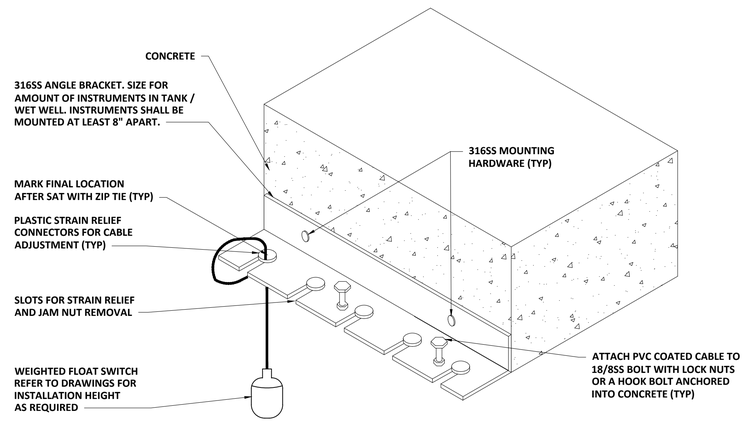
DR. A.COUTURE			
TRC. -			PR-99-501
CK. D.STILES			
PROJECT NO: 21163	DESIGNED BY: W.EDGERTON	AP. S.HALLOWELL	DWG. No. 12221-W-33
SUBMISSION: CONTRACT DRAWINGS		SCALE: AS NOTED	
CAD COORD: A.COUTURE		DATE: APRIL 2025	SET NO. SHEET NO. 59 of 92

J:\ENG\LA\NEWORLEANS\12163-EASTBANKSTP PHASE_I_WW_IMPROVEMENTS_DRAWINGS\PHASE-1A\PRO\12163-PRS-DETAILS.DWG | Details I | | 110.12364577 | — | 4/25/2025 10:37:09 AM | ADAM.COUTURE

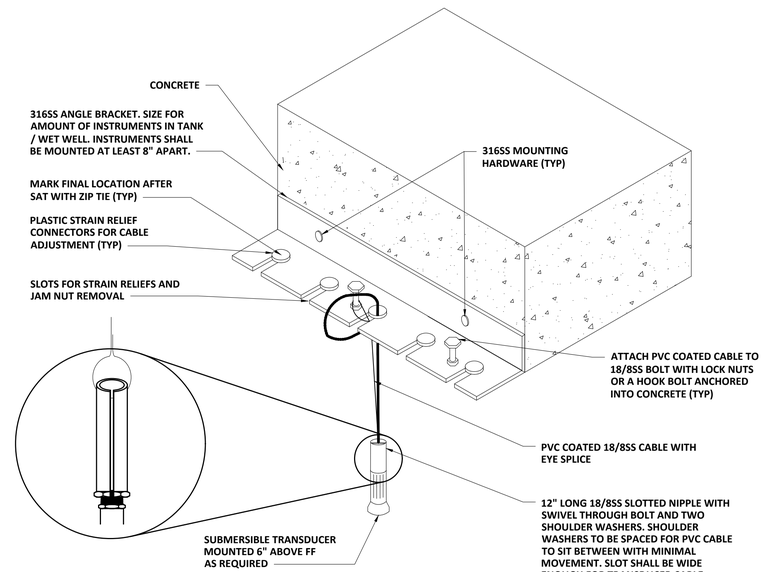
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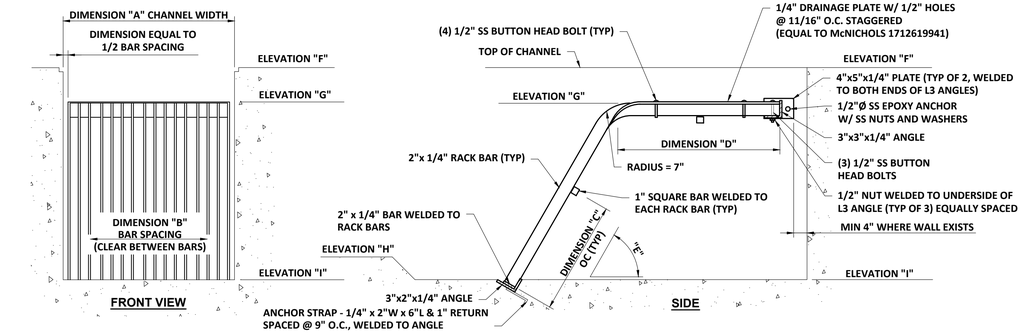
SUBMERSIBLE LEVEL TRANSDUCER PIPE MOUNTED SUPPORT
NTS



WET WELL OR TANK WALL OR HATCH WITH FLOAT SWITCH SUPPORT
NTS



WET WELL OR TANK WALL OR HATCH WITH SUBMERSIBLE SUPPORT
NTS

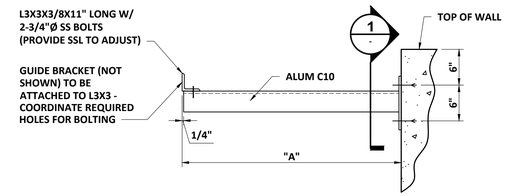


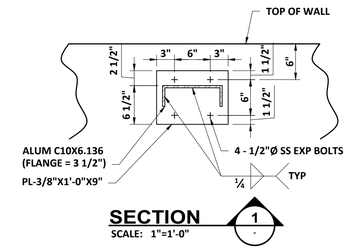
BAR RACK SCHEDULE										
BAR RACK	LOCATION	DIMENSIONS					ELEVATIONS			
		DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	ANGLE "E"	ELEV. "F"	ELEV. "G"	ELEV. "H"	ELEV. "I"
MBR-1	SEPTAGE RECEIVING	3'-0"	1"	1'-0"	3'-6"	50	.54	-0.75	-4.00	-4.75

NOTES:

1. MATERIALS OF CONSTRUCTION AND RAKE PER SPECIFICATION SECTION 05500.
2. DESIGN IS INTENDED TO ALLOW RACK TO PIVOT OUT OF CHANNEL.

BAR RACK DETAILS
SCALE: NTS





SECTION 1
SCALE: 1"=1'-0"

PUMP GUIDE BRACKET SUPPORT SCHEDULE		
LOCATION	DIM "A"	NUMBER OF BRACKETS REQUIRED
LIQUID SLUDGE/SEPTAGE RECEIVING FACILITY	1'-6"	2
SEDIMENTATION BASINS WAS STORAGE TANK	1'-4 1/2"	3

NOTES:
1. ALL ALUM CONSTRUCTION W/ SS BOLTS.
2. REFER TO PUMP GUIDE BRACKET SUPPORT SCHEDULE FOR LOCATION, QUANTITY AND DIMENSION "A".

PUMP GUIDE BRACKET SUPPORT DETAIL
SCALE: NTS

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

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DETAILS II

PROJECT NO: 21163	DESIGNED BY: W.EDGERTON	DR. A.COUTURE	PR-99-502
SUBMISSION: CONTRACT DRAWINGS		TRC. -	
CAD COORD: A.COUTURE		CK. D.STILES	
		AP. S.HALLOWELL	DWG. No. 12221-W-33
		SCALE: AS NOTED	
		DATE: APRIL 2025	SET NO. SHEET NO. 60 of 92

J:\ENGLA\NEWORLEANS\21163-EASTBANKSTP PHASE_I_WW_IMPROVEMENTS_DRAWINGS\PHASE-1A\PRO\21163-PRS-DETAILS.DWG | Details II | 1:10.1236477 | — | 4/25/2025 10:37:09 AM | ADAM.COUTURE

4/25/2025 11:32:45 AM

DESIGN CRITERIA

OUTSIDE DESIGN TEMPERATURE

WINTER (ASHRAE MEAN ANUAL EXTREME)	30°F
SUMMER (ASHRAE 0.4%)	93°F DB/79°F WB
INSIDE DESIGN TEMPERATURE WINTER/SUMMER	
PROCESS AREAS	55°F/AMBIENT
ELECTRICAL AREAS	AMBIENT/80°F

VENTILATION RATES - REFER TO DRAWINGS

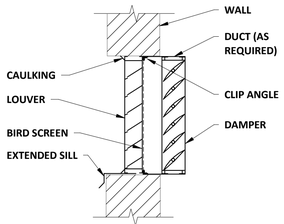
SCHEMATIC / LEGEND

- PIPE TURNING DOWN
- PIPE TURNING UP
- PIPE TEE DOWN
- PIPE CAP
- DRAIN / FILL STATION
- THERMOSTAT
- TS — TEMPERATURE SENSOR
- PS — PRESSURE SENSOR
- S — SENSOR
- CG — COMBUSTIBLE GAS DETECTOR
- FS — PROOF-OF-AIRFLOW SWITCH
- THERMOMETER
- ATC-# — AUTOMATIC TEMPERATURE CONTROL PANEL
- HORN/STROBE

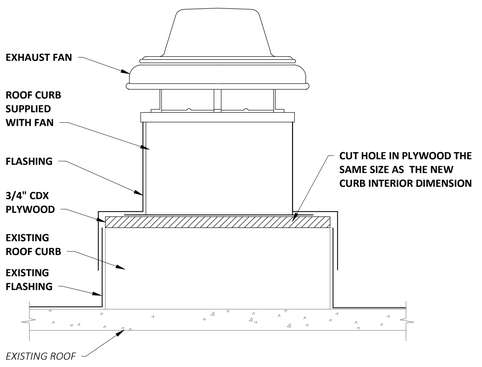
- RECTANGULAR SUPPLY AIR DUCT UP
- RECTANGULAR SUPPLY AIR DUCT DOWN
- RECTANGULAR RETURN OR EXHAUST AIR DUCT UP
- RECTANGULAR RETURN OR EXHAUST AIR DUCT DOWN
- SUPPLY DIFFUSER, REGISTER OR GRILLE
- RETURN REGISTER OR GRILLE
- SIDEWALL REGISTER
- KEYNOTE
- DIRECTION OF AIR FLOW (S/OA)
- DIRECTION OF AIR FLOW (R/E)
- VD — VOLUME DAMPER
- MITERED ELBOW WITH TURNING VANES
- DIFFUSER DESIGNATION PER SCHEDULE / AIRFLOW IN CFM (DIFF / CFM)
- EQ-# — EQUIPMENT DESIGNATION & SEQUENCE NUMBER
- POINT OF CONNECTION BETWEEN EXISTING AND NEW
- APPROX. EXTENTS OF DEMOLITION
- DEMOLITION NOTE TAG
- MODIFICATIONS NOTE TAG

MECHANICAL GENERAL NOTES

1. ALL EQUIPMENT AND PIPING LAYOUT DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH EQUIPMENT SUPPLIED, AND/OR EXISTING CONDITIONS. SOME INFORMATION ASSOCIATED WITH EXISTING STRUCTURES, PIPING AND EQUIPMENT LOCATIONS, ELEVATIONS AND SIZES, WERE TAKEN FROM THE RECORD DRAWINGS FOR THE EAST BANK WASTEWATER TREATMENT FACILITY, NEW ORLEANS, LOUISIANA, EAST BANK WWTF IMPROVEMENT (RICE, DORNBLATT & ERNST, 1988), WHICH ARE AVAILABLE FOR REVIEW AT THE ENGINEER'S OFFICE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION OF NEW FACILITIES, EQUIPMENT OR PIPING THAT MAY BE AFFECTED.
2. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DIMENSIONS, LAYOUT OR ELEVATION CHANGES REQUIRED TO SUIT THE SPECIFIC EQUIPMENT BEING PROVIDED UNDER THIS CONTRACT. WHEN SUCH EQUIPMENT REQUIRES PADS, PIERS, CURBING, ETC., THAT DIFFERS FROM THAT SHOWN ON THE CONSTRUCTION DRAWINGS, THE CONTRACTOR SHALL COORDINATE THE STEEL REINFORCING SHOP DRAWINGS ACCORDINGLY.
3. CONTRACTOR TO NOTE THAT ALL EXISTING INFORMATION ON THE DRAWINGS IS SHOWN WITH A LIGHTER LINE WEIGHT AND INDICATED WITH A SLANTED TYPE TEXT. THE EXCEPTION IS WHEN SCANNED IMAGES ARE UTILIZED FROM THE PREVIOUS CONSTRUCTION PROJECTS NOTED IN GENERAL NOTE No.1 ABOVE. WHEN REVIEWING DRAWINGS NOTED AS "SCANNED" UNDER DRAWING TITLE, THE CONTRACTOR SHALL IGNORE ANY REFERENCE TO PREVIOUS CONTRACT WORK. SCANNED IMAGES ARE NOT TO SCALE, HOWEVER AN APPROXIMATE SCALE MAY BE GIVEN FOR CONVENIENCE.
4. ALL COMPONENTS OF THE AUTOMATIC TEMPERATURE CONTROL SYSTEM SHALL MEET THE ELECTRICAL CLASSIFICATION OF THE SPACE IN WHICH THEY ARE INSTALLED UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS.
5. ALL DUCTWORK AND DEVICES SHALL BE FABRICATED, REINFORCED AND INSTALLED IN ACCORDANCE WITH SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION) DOCUMENT "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE". SEAL ALL DUCT JOINTS TO SEAL CLASS "B".
6. ALL PIPES SHALL BE ADEQUATELY RESTRAINED AND SUPPORTED IN ACCORDANCE WITH THE 2021 INTERNATIONAL MECHANICAL CODE.
7. ALL PIPING SYSTEMS SHALL BE PRESSURE TESTED FOR TIGHTNESS IN ACCORDANCE WITH SPECIFICATION SECTION 15601. ALL LEAKS SHALL BE CORRECTED AND RETESTED UNTIL PRESSURE TEST IS SATISFACTORY PRIOR TO THE INSTALLATION OF PIPE INSULATION.
8. TEST REFRIGERANT PIPING IN ACCORDANCE WITH 2021 IMC, CHAPTER 11.
9. DO NOT SCALE DISTANCES OR DIMENSIONS FROM THE DRAWINGS. WRITTEN DIMENSIONS SHALL PREVAIL. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
10. ALL MITERED ELBOWS, AND RADIUS ELBOWS HAVING RAD<1.0xDUCT WIDTH SHALL HAVE TURNING VANES INSTALLED.
11. INDICATES EXISTING PIPING/EQUIPMENT TO REMAIN FOR RE-USE.
    INDICATES EXISTING PIPING/EQUIPMENT TO BE DEMOLISHED.
    INDICATES EXISTING PIPING/EQUIPMENT TO BE SAVED FOR REUSE.

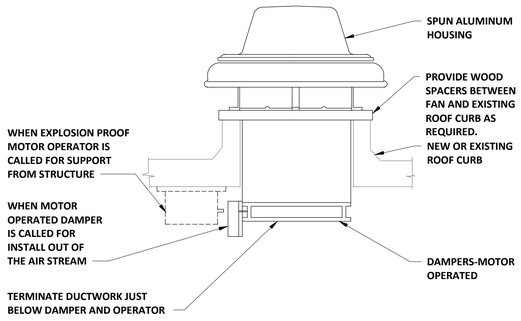


LOUVER & DAMPER DETAIL
SCALE: 12" = 1'-0"

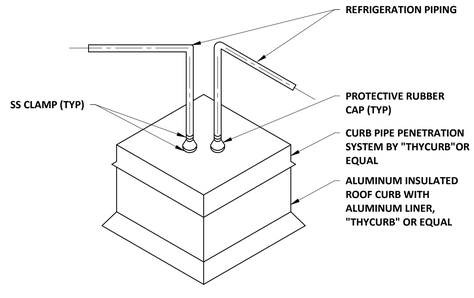


NOTE: FLASHING SHALL BE IN ACCORDANCE WITH THE ROOF SYSTEMMANUFACTURER'S REQUIREMENT

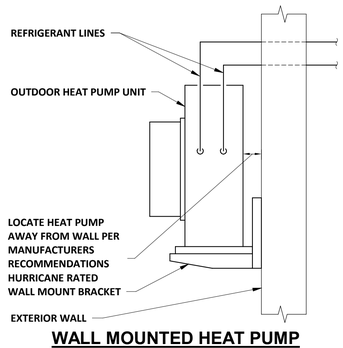
EXHAUST FAN INSTALLATION DETAIL
SCALE: NTS



GRAVITY VENTILATOR DETAIL
SCALE: NTS



ROOF PIPE PENETRATION DETAIL (PRE-FAB CURB)
SCALE: NTS



WALL MOUNTED HEAT PUMP
SCALE: NTS

ABBREVIATIONS

A	AMPERE	HP	HEAT PUMP (DRAWINGS)	RL	REFRIGERANT LIQUID
ABV	ABOVE	HP	HORSEPOWER (SCHEDULES)	RLA	RUNNING LOAD AMPS
ACH	AIR CHANGES PER HOUR	HR	HOUR	RPM	REVOLUTIONS PER MINUTE
AFF	ABOVE FINISH FLOOR	IN	INCHES	RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
AFG	ABOVE FINISH GRADE	kW	KILOWATT		
ATC	AUTOMATIC TEMPERATURE CONTROL	L	LOUVER	RS	REFRIGERANT SUCTION
BOD	BOTTOM OF DUCT	LAT	LEAVING AIR TEMPERATURE	SA	SUPPLY AIR
BOE	BOTTOM OF EQUIPMENT	LF	LINEAR FOOT	SC	SENSIBLE COOLING
BTU	BRITISH THERMAL UNIT	LRA	LOCKED ROTOR AMPS	SCH	SCHEDULE
BTUH	BRITISH THERMAL UNITS PER HOUR	MAX	MAXIMUM	SEER	SEASONAL ENERGY EFFICIENCY RATIO
CD	CONDENSATE DRAIN	MBH	BTUH x 1000	SF	SUPPLY FAN
CFM	CUBIC FEET PER MINUTE	MCA	MINIMUM CIRCUIT AMPS	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
D	DAMPER	MFR	MANUFACTURER		
DB	DRY BULB	MIN	MINIMUM	SP	STATIC PRESSURE
DIA, Ø	DIAMETER	MOCP	MAXIMUM OVERCURRENT PROTECTION	TC	TOTAL COOLING
DN	DOWN	MOD	MOTOR OPERATED DAMPER	TG	TRANSFER GRILLE
DS	DUCTLESS SPLIT AIR CONDITIONER	MNT	MOUNT	TOD	TOP OF DUCT
EA	EXHAUST AIR	N/A	NOT APPLICABLE	TOE	TOP OF EQUIPMENT
EAT	ENTERING AIR TEMPERATURE	NC	NOISE CRITERION	TRANS	TRANSITION
EER	ENERGY EFFICIENCY RATIO	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	TS	TEMPERATURE SENSOR
EF	EXHAUST FAN			TSP	TOTAL STATIC PRESSURE
EFF	EFFICIENCY	NO.	NUMBER	TSTAT	THERMOSTAT
EL	ELEVATION	NTS	NOT TO SCALE	TYP	TYPICAL
ESP	EXTERNAL STATIC PRESSURE	OA	OUTSIDE AIR	UH	UNIT HEATER
ET	EXPANSION TANK	OAT	OUTSIDE AIR TEMPERATURE	V	VOLTS
EUH	ELECTRIC UNIT HEATER	OED	OPEN END DRAIN, OPEN END DUCT	VD	VOLUME DAMPER
°F	DEGREES FAHRENHEIT	PD	PRESSURE DROP	VFD	VARIABLE FREQUENCY DRIVE
FLA	FULL-LOAD AMPS	PS	PRESSURE SENSOR	W/	WITH
GEV	GRAVITY EXHAUST VENTILATOR	QTY	QUANTITY	W	WIDTH
GIV	GRAVITY INTAKE VENTILATOR	RA	RETURN AIR	WB	WET BULB
GPM	GALLONS PER MINUTE	RAD	RADIUS	WC	WATER COLUMN
H	HEIGHT	RG	RETURN GRILLE	WG	WATER GAUGE

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA — STEVEN CHARLES HALLOWELL — License No. Pe0046278 — PROFESSIONAL ENGINEER — 4/30/2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

MECHANICAL GENERAL NOTES, LEGEND, DESIGN CRITERIA, AND DETAILS

PROJECT NO: 21163	DESIGNED BY: T. CARLMAN
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A. COUTURE	

DR. H. CINI	
TRC. -	
CK. R.GREENE	
AP. R.GREENE	
SCALE: AS NOTED	
DATE: APRIL 2025	

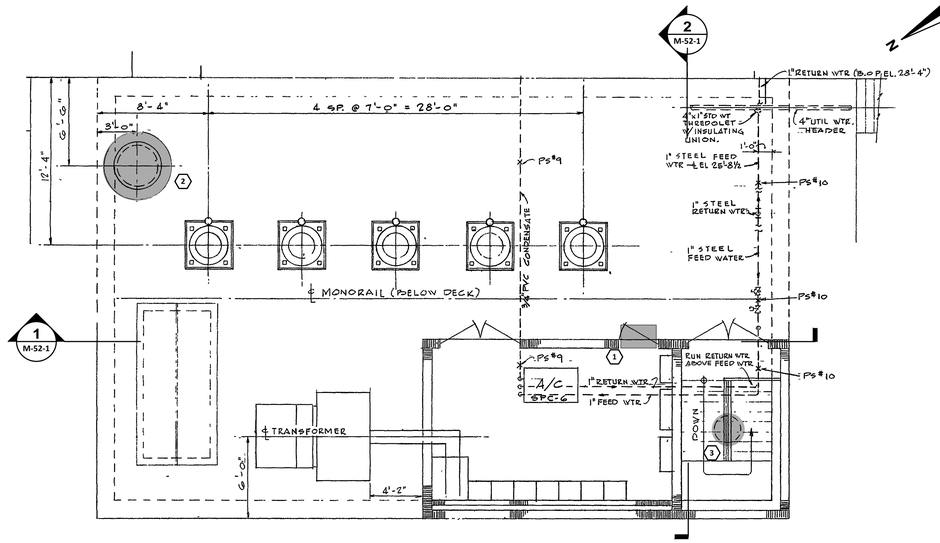
M-00-001

DWG. No. 12221-W-33

SET NO. | SHEET NO. 61 of 92

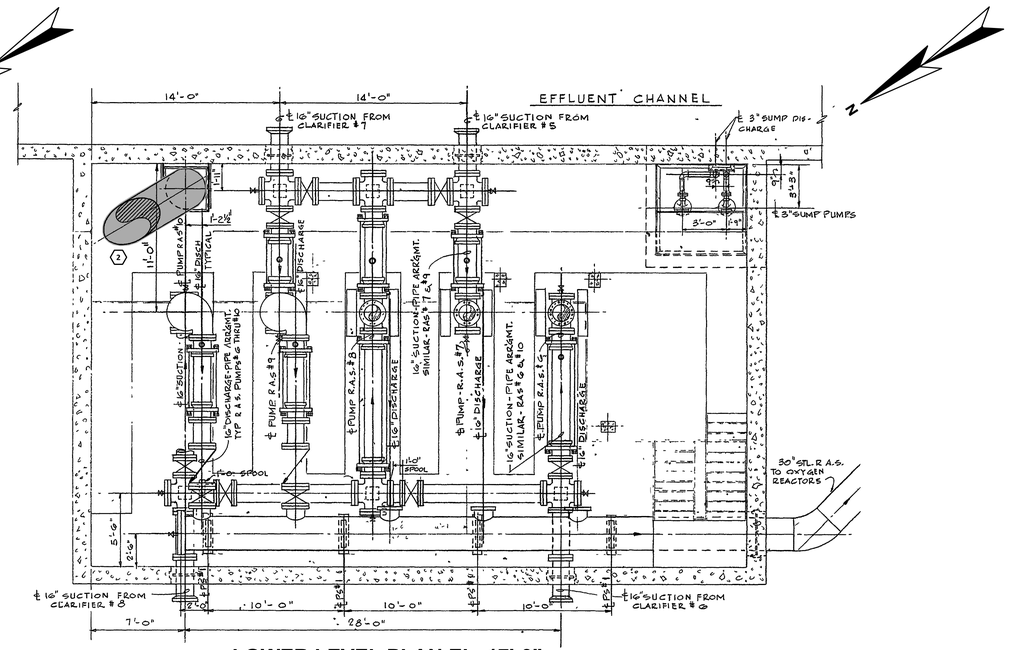
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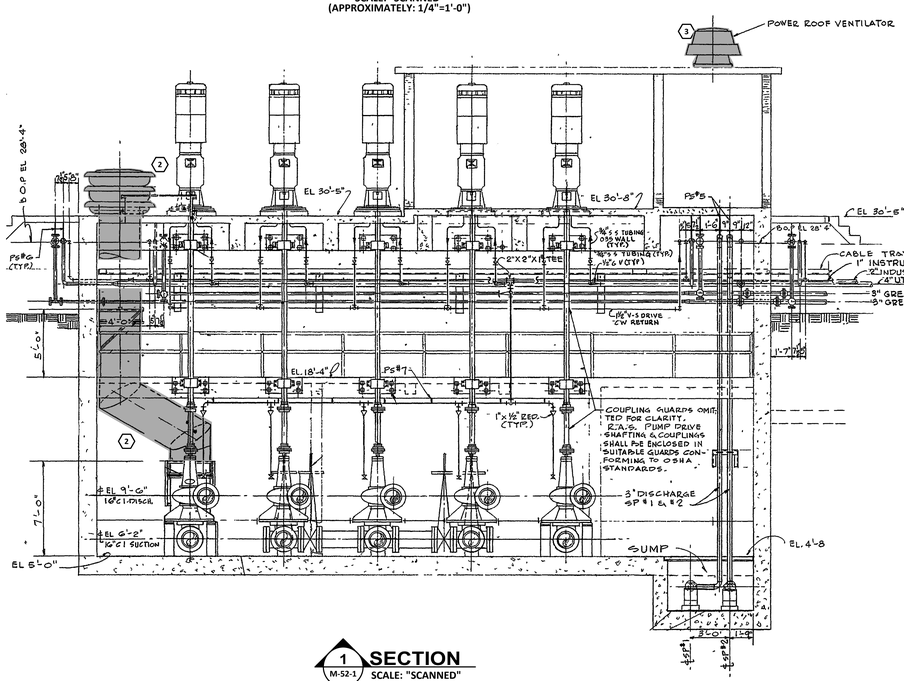
UPPER LEVEL PLAN EL. 30'-5"

SCALE: "SCANNED"
(APPROXIMATELY: 1/4"=1'-0")

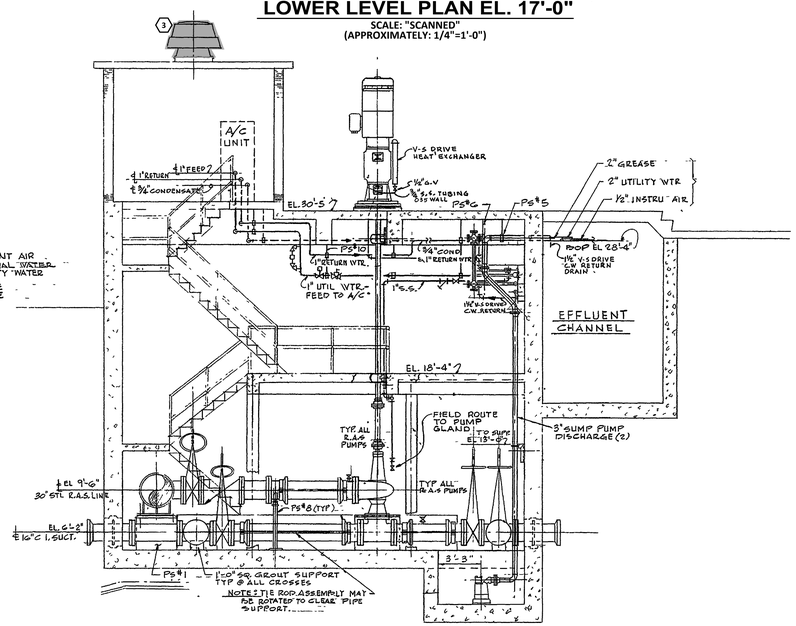


LOWER LEVEL PLAN EL. 17'-0"

SCALE: "SCANNED"
(APPROXIMATELY: 1/4"=1'-0")



1 SECTION
M-52-1
SCALE: "SCANNED"
APPROX: 1/4"=1'-0"



2 SECTION
M-52-1
SCALE: "SCANNED"
APPROX: 1/4"= 1'-0"

DEMOLITION NOTES:

1. REMOVE/DEMOLISH EXISTING AIR CONDITIONING UNIT IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO: UNIT, PIPING, FITTINGS, WIRING AND CONDUIT, AND ALL OTHER ASSOCIATED APPURTENANCES. COORDINATE INFILL OF PENETRATION WITH ARCHITECTURAL.
2. REMOVE/DEMOLISH EXISTING SUPPLY FAN IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO: FAN, DUCTWORK, FITTINGS, WIRING AND CONDUIT, CONTROLS AND ALL ASSOCIATED APPURTENANCES. CLEAN AND PREPARE PENETRATION FOR INSTALLATION OF NEW.
3. REMOVE/DEMOLISH EXISTING EXHAUST FAN IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO; ALL DUCTWORK, FITTINGS, SUPPORTS, AND OTHER ASSOCIATED APPURTENANCES TO REMAIN. CLEAN AND PREPARE PENETRATION AND CORRESPONDING EQUIPMENT FOR INSTALLATION OF NEW.

NOTES:

1. FOR MECHANICAL NOTES, LEGEND, AND ABBREVIATIONS REFER TO DRAWING M-001-1

REV.	DATE	DESCRIPTION	BY
3			
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe0046278
PROFESSIONAL ENGINEER
4/30/2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

NORTH RAS PUMP STATION DEMOLITION PLANS AND SECTIONS

PROJECT NO: 21163	DESIGNED BY: T.CARLMAN
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

DR. H.CINI	
TRC. -	
CK. R.GREENE	
AP. R.GREENE	
SCALE: AS NOTED	
DATE: APRIL 2025	

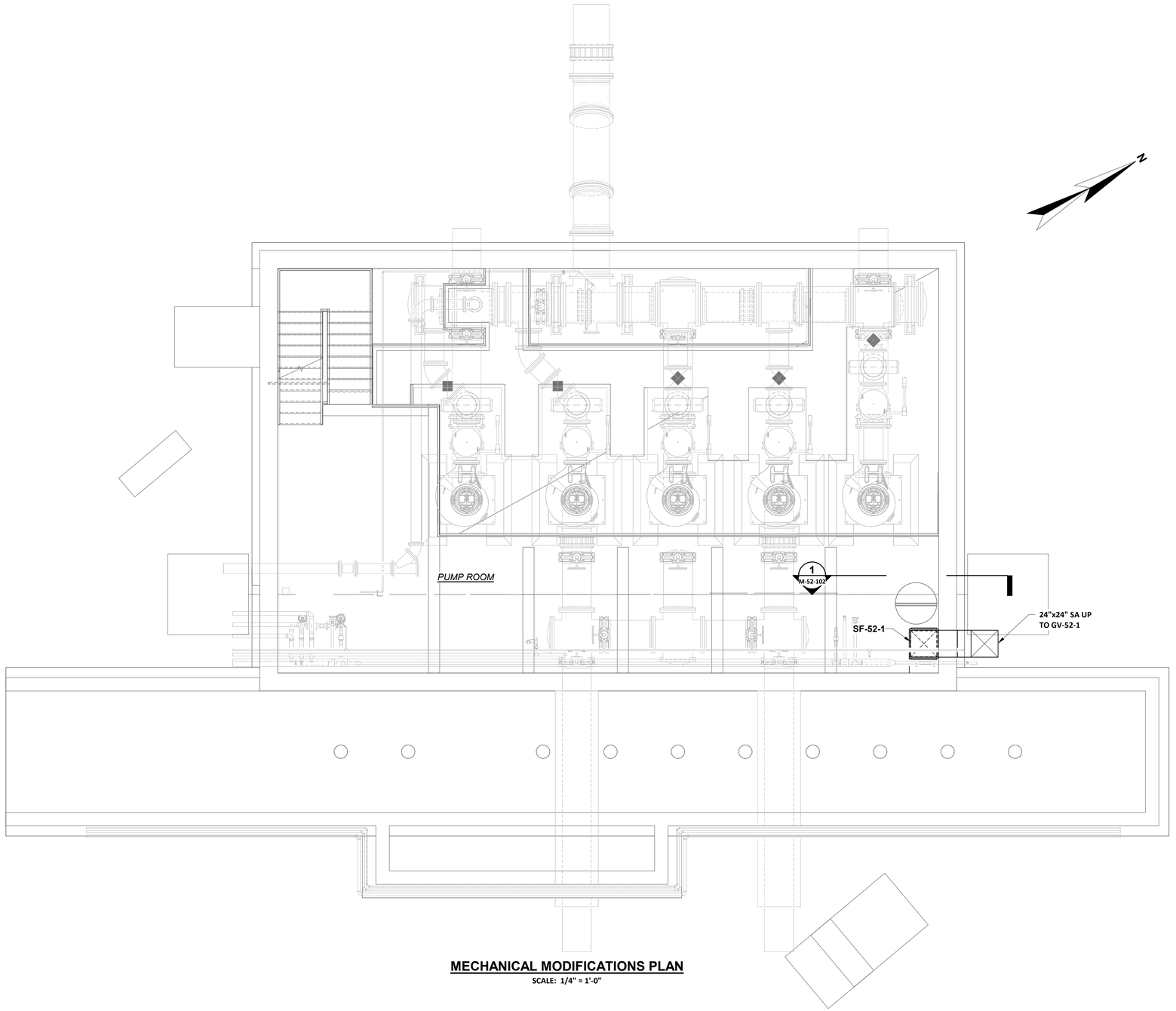
M-52-101

DWG. No. 12221-W-33

SET NO. | SHEET NO. 62 of 92

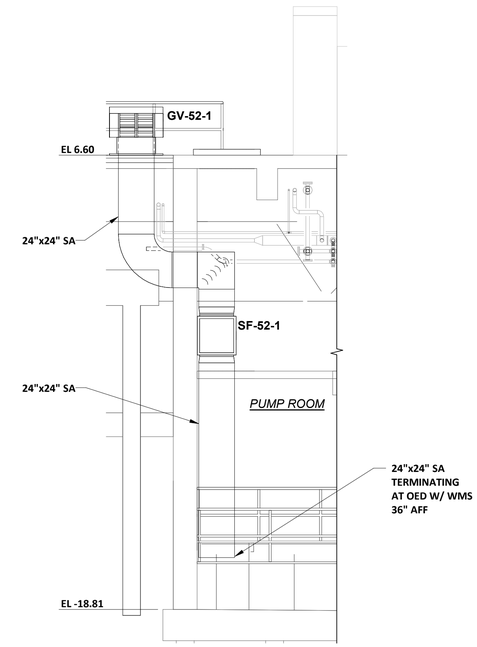
J:\ENGLV\LA\NEWORLEANS\21163-EASTBANKSTP PHASE 1_WW_IMPROVEMENTS_DRAWINGS\PHASE 1A\MEC\21163-M5-RAS-PS-NORTH.DWG | M-8 - North RAS Pump Station | 1:10.12364677 | — | 4/25/2025 4:00:43 PM | HUNTER.CINI

4/25/2025 12:06:46 PM



MECHANICAL MODIFICATIONS PLAN

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



1 M-52-102 SECTION

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

NOTES:

1. FOR MECHANICAL NOTES, LEGEND, AND ABBREVIATIONS REFER TO DRAWING M-00-1.

REV.	DATE	DESCRIPTION	BY
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE IA

SECONDARY TREATMENT AND SOLIDS UPGRADE

NORTH RAS PUMP STATION BASEMENT MECHANICAL MODIFICATIONS PLAN

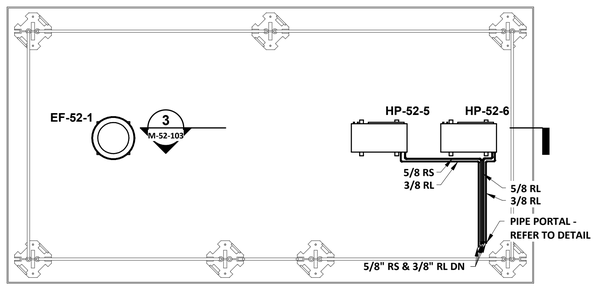
STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe0046278
PROFESSIONAL ENGINEER
4/30/2025

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PROJECT NO: 21163	DESIGNED BY: T.CARLMAN
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A. COUTURE	

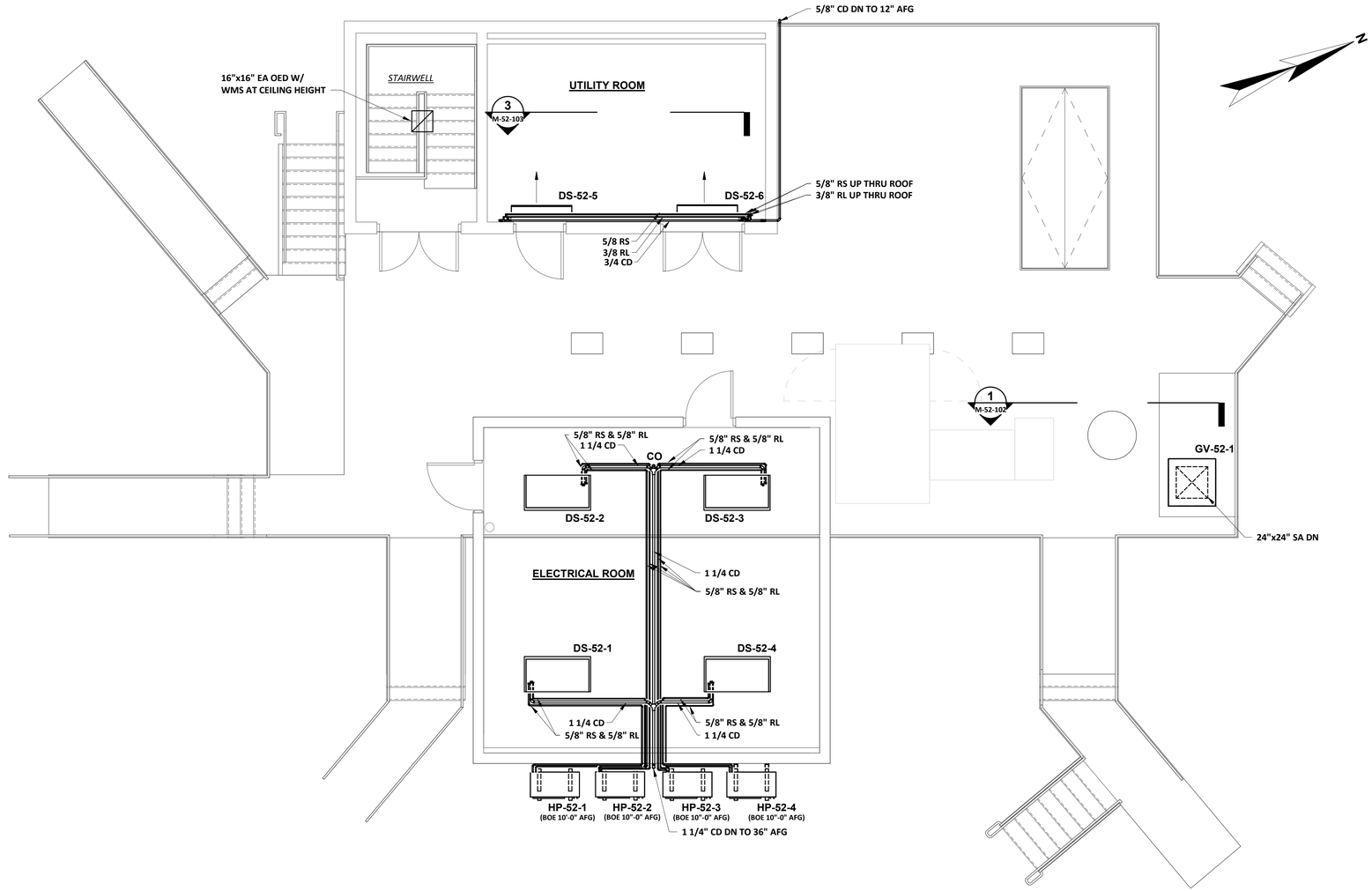
DR. H.CINI	**M-52-102**
TRC. -	
CK. R.GREENE	
AP. R.GREENE	**DWG. No. 12221-W-33**
SCALE: AS NOTED	
DATE: APRIL 2025	SET NO. SHEET NO. 63 of 92

Autodesk Docs://LA-NewOrleans-21163-EastBank-STP-Phase2/21163-MM-RAS-PS-North.rvt



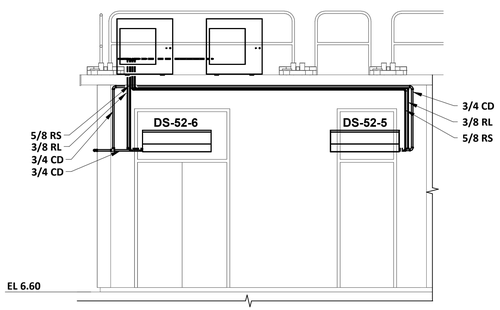
MECHANICAL MODIFICATIONS UTILITY ROOM ROOF PLAN

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



MECHANICAL MODIFICATIONS PLAN

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



3 SECTION
M-52-103 SCALE: 1/4" = 1'-0"

NOTES:

1. FOR MECHANICAL NOTES, LEGEND, AND ABBREVIATIONS REFER TO DRAWING M-00-001.

REV.	DATE	DESCRIPTION	BY
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT AND SOLIDS UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe0046278
PROFESSIONAL ENGINEER
4/30/2025

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NORTH RAS PUMP STATION FIRST FLOOR MECHANICAL MODIFICATIONS PLAN

DR. H.CINI	
TRC. -	
CK. R.GREENE	
AP. R.GREENE	
SCALE: AS NOTED	
DATE: APRIL 2025	
SET NO.	SHEET NO. 64 of 92

M-52-103

DWG. No. 12221-W-33

PROJECT NO: 21163 | DESIGNED BY: T.CARLMAN
SUBMISSION: CONTRACT DRAWINGS
CAD COORD: A. COUTURE

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Autodesk Docs://1A-NewOrleans-21163-EastBank-STP-Phase/21163-MM-RAS-PS-North.rvt

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AIR COOLED DX HEAT PUMP SCHEDULE

UNIT NO.	LOCATION SERVED	REFRIGERANT	TOTAL MBH		SEER	COMPRESSOR		CONDENSER					REMARKS	NOTES
			COOL	HEAT		RLA	LRA	CFM	VOLTS	PHASE	MCA	MOCP		
HP-52-1	NORTH PUMP HOUSE BUILDING - ELECTRICAL ROOM	R410a	36	40	18.8	8	13	3880	208/230	1	25	30	MITSUBISHI PUZ-A36NKA7 OR EQUIVALENT	1,2,4
HP-52-2	NORTH PUMP HOUSE BUILDING - ELECTRICAL ROOM	R410a	36	40	18.8	8	13	3880	208/230	1	25	30	MITSUBISHI PUZ-A36NKA7 OR EQUIVALENT	1,2,4
HP-52-3	NORTH PUMP HOUSE BUILDING - ELECTRICAL ROOM	R410a	36	40	18.8	8	13	3880	208/230	1	25	30	MITSUBISHI PUZ-A36NKA7 OR EQUIVALENT	1,2,4
HP-52-4	NORTH PUMP HOUSE BUILDING - ELECTRICAL ROOM	R410a	36	40	18.8	8	13	3880	208/230	1	25	30	MITSUBISHI PUZ-A36NKA7 OR EQUIVALENT	1,2,4
HP-52-5	NORTH PUMP HOUSE BUILDING - UTILITY ROOM	R410a	24	28	21.4	7	11	1940	208/230	1	19	25	MITSUBISHI PUZ-A24NKA7 OR EQUIVALENT	1,3,4
HP-52-6	NORTH PUMP HOUSE BUILDING - UTILITY ROOM	R410a	24	28	21.4	7	11	1940	208/230	1	19	25	MITSUBISHI PUZ-A24NKA7 OR EQUIVALENT	1,3,4

NOTES:
1. PROVIDE ALL OPTIONS AND ACCESSORIES FOR LOW AMBIENT OPERATION
2. PROVIDE HURRICANE RATED STAINLESS STEEL BRACKETS FOR WALL MOUNTING. COORDINATE EXACT LOCATION WITH GENERAL CONTRACTOR
3. PROVIDE THYBAR CURBS FOR ROOF MOUNTING. COORDIANTE EXACT LOCATION WITH GENERAL CONTRACTOR
4. PROVIDE WITH SEACOAST COIL PROTECTION

DUCTLESS SPLIT HEAT PUMP SCHEDULE

UNIT NO.	LOCATION	REFRIGERANT	DX COOLING						DX HEATING			MOUNTING TYPE	CFM	VOLTS	PHASE	FLA	MCA	REMARKS	NOTES
			TC MBH	SC MBH	EAT DB	EAT WB	LAT DB	LAT WB	MBH	EAT	LAT								
DS-52-1	NORTH PUMP HOUSE BUILDING - ELECTRICAL ROOM	R410a	36	26.3	80	67	58	57	40	68	111	CEILING SUSPENDED	850	208/230	1	0.97	1	MITSUBISHI MODEL PCA-A36KA8 OR EQUIVALENT	1
DS-52-2	NORTH PUMP HOUSE BUILDING - ELECTRICAL ROOM	R410a	36	26.3	80	67	58	57	40	68	111	CEILING SUSPENDED	850	208/230	1	0.97	1	MITSUBISHI MODEL PCA-A36KA8 OR EQUIVALENT	1
DS-52-3	NORTH PUMP HOUSE BUILDING - ELECTRICAL ROOM	R410a	36	26.3	80	67	58	57	40	68	111	CEILING SUSPENDED	850	208/230	1	0.97	1	MITSUBISHI MODEL PCA-A36KA8 OR EQUIVALENT	1
DS-52-4	NORTH PUMP HOUSE BUILDING - ELECTRICAL ROOM	R410a	36	26.3	80	67	58	57	40	68	111	CEILING SUSPENDED	850	208/230	1	0.97	1	MITSUBISHI MODEL PCA-A36KA8 OR EQUIVALENT	1
DS-52-5	NORTH PUMP HOUSE BUILDING - UTILITY ROOM	R410a	24	18.5	80	67	58	57	28	68	109	WALL MOUNTED	705	208/230	1	0.265	1	MITSUBISHI MODEL PKA-A24KA8 OR EQUIVALENT	1
DS-52-6	NORTH PUMP HOUSE BUILDING - UTILITY ROOM	R410a	24	18.5	80	67	58	57	28	68	109	WALL MOUNTED	705	208/230	1	0.265	1	MITSUBISHI MODEL PKA-A24KA8 OR EQUIVALENT	1

NOTES:
1. USE MANUFACTURER RECOMMENDED REFRIGERANT TUBING. INSULATE SUCTION & LIQUID LINES. PROVIDE PVC JACKETS.

FAN SCHEDULE

UNIT NO.	LOCATION SERVED	CFM	E.S.P IN WC	FAN RPM	SONES	DRIVE TYPE	TYPE	MOTOR DATA				NEMA	REMARKS	NOTES
								HP	RPM	VOLTS	PHASE			
EF-52-1	NORTH PUMP HOUSE BUILDING - PUMP ROOM	3500	0.375	1328	18.5	DIRECT	CENTRIFUGAL UPBLAST	2	1725	208	1	4X	GREENHECK MODEL CUE-160-VG OR EQUIVALENT	1,2,3,4,5,6
SF-52-1	NORTH PUMP HOUSE BUILDING - PUMP ROOM	3500	0.5	1318	15.6	DIRECT	INLINE CENTRIFUGAL	1	1725	208	1	4X	GREENHECK MODEL SQ-160-VG OR EQUIVALENT	1,2,3,4,6

NOTES:
1. HIGH PERFORMANCE POLYESTER POWDER COAT FINISH (HI-PRO POLY OR EQUIVALENT)
2. ELECTRONICALLY COMMUTATED MOTOR
3. FACTORY MOUNTED AND WIRED DISCONNECT SWITCH
4. FACTORY MOUNTED AND WIRED 0-10 VDC INPUT
5. 24" HIGH ROOF CURB
6. ALUMINUM CONSTRUCTION

GRAVITY VENTILATOR SCHEDULE

UNIT NO.	SERVES	CFM	MAX PRESS DROP IN H20	THROAT DIM	CURB CAP DIM	REMARKS	NOTES
GV-52-1	NORTH PUMP HOUSE BUILDING - PUMP ROOM	3500	0.102	28"x28"	28"x28"	GREENHECK MODEL ESD-635PD OR EQUIVALENT	1,2,3

NOTES:
1. PROVIDE WITH MOTOR OPERATED DAMPER
2. ALUMINUM BIRD SCREEN
3. CORROSION RESISTANT FINISH

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

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MECHANICAL SCHEDULES

PROJECT NO: 21163	DESIGNED BY: T.CARLMAN
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A. COUTURE	

DR. H.CINI	
TRC. -	
CK. R.GREENE	
AP. R.GREENE	
SCALE: AS NOTED	
DATE: APRIL 2025	

M-99-601

DWG. No. 12221-W-33

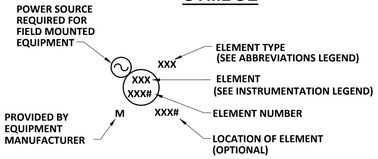
SET NO. | SHEET NO. 65 of 92

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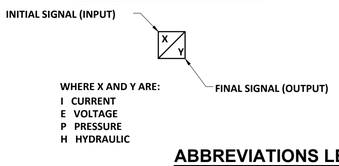
INSTRUMENTATION SYMBOL LEGEND

DESCRIPTION	EXISTING	NEW	FUTURE
PROCESS FLOW			
ELECTRICAL POWER OR PROCESS CONNECTION			
ELECTRICAL SIGNAL			
DATA LINK			
PLC INPUT/OUTPUT	I/O	I/O	I/O
PNEUMATIC SIGNAL			
HYDRAULIC SIGNAL			
DISCRETE OUTPUT SIGNAL	I/O	I/O	I/O
ANALOG OUTPUT SIGNAL	I/O	I/O	I/O
DISCRETE INPUT SIGNAL	I/O	I/O	I/O
ANALOG INPUT SIGNAL	I/O	I/O	I/O
HARDWIRE INTERLOCK	XX# XX# (INTERLOCK I.D. NUMBER / LOCATION OF INTERLOCK)	XX# XX# (INTERLOCK I.D. NUMBER / LOCATION OF INTERLOCK)	XX# XX# (INTERLOCK I.D. NUMBER / LOCATION OF INTERLOCK)
PROGRAMMABLE LOGIC CONTROLLER			
OPERATOR TERMINAL INTERFACE			
LOCAL (FIELD MOUNTED)			
FRONT PANEL MOUNTED			
REAR PANEL MOUNTED			
INTEGRAL EQUIPMENT			
SIGNAL SPLITTER CONVERTER/ BOOSTER (SEE BELOW)	X Y	X Y	X Y
MOTOR	M	M	M
ALARM/ STATUS LIGHT			
STROBE LIGHT			

TYPICAL INSTRUMENTATION SYMBOL



TYPICAL SIGNAL CONVERTER SYMBOL



* ALSO USED AS A MODIFIER AFTER FIRST LETTER (i.e. PDIT: PRESSURE DIFFERENTIAL INDICATING TRANSMITTER)

** ALSO USED AS A MODIFIER AFTER LAST LETTER (i.e. LSHH: LEVEL SWITCH HIGH HIGH)

INSTRUMENTATION LEGEND

FIRST LETTER		SUCCEEDING LETTER	
1		2	3
A	ANALYSIS	ALARM	-
B	-	-	-
C	CONTROL	CONTROL	CONTROL
D	DIFFERENTIAL*	DETECT	-
E	-	ELEMENT	-
F	FLOW	--	-
G	GAS	GLASS	GLASS
H	HAND (MANUAL)	-	HIGH**
I	CURRENT	INDICATE	INDICATE
J	POWER	--	-
K	TIME*	--	-
L	LEVEL	LIGHT	LOW**
M	MOTOR	-	INTERMEDIATE
P	PRESSURE	-	-
Q	QUANTITY OR TOTALIZE*	QUANTITY	-
R	RADIATION	RECORD	RECORD
S	SPEED OR FREQUENCY	SWITCH	SIGNAL
T	TEMPERATURE	TRANSMIT	TRANSMIT
V	VIBRATION	VALVE	VALVE
W	TORQUE, WEIGHT, FORCE	-	-
X	-	-	-
Y	STATUS	RELAY, COMPUTE,OR CONVERT	RELAY, COMPUTE OR CONVERT
Z	POSITION	--	-

VALVES AND FITTINGS

DESCRIPTION	EXISTING	NEW	FUTURE
GATE VALVE			
BALL VALVE			
PLUG VALVE			
GLOBE VALVE			
BUTTERFLY VALVE			
CHECK VALVE			
DOUBLE DISC CHECK VALVE			
DIAPHRAGM VALVE			
MUD VALVE			
TIDE CHECK VALVE			
NEEDLE VALVE			
PINCH VALVE			
3-WAY VALVE			
KNIFE GATE			
TELESCOPING VALVE	T	T	T
CONCENTRIC REDUCER			
ECCENTRIC REDUCER			
FLOW ARROW			
UNION			
PRESSURE SAFETY VALVE	PSV PSV	PSV PSV	PSV PSV
VACUUM RELIEF	V V	V V	V V
BACKPRESSURE VALVE	BPV	BPV	BPV
PRESSURE REDUCING VALVE	PRV	PRV	PRV
BACKFLOW PREVENTER			
DUPLEX STRAINER			
SIMPLEX STRAINER			
WYE STRAINER			
IN-LINE MIXER			
EXPANSION JOINT			
ROTAMETER			
PULSTATION DAMPENER			
DIAPHRAGM SEAL			

ACTUATORS

CONTROL ACTUATOR	M	M	M
SOLENOID ACTUATOR	S	S	S
PNEUMATIC DIAPHRAGM ACTUATOR			
PNEUMATIC/HYDRALUIC CYLINDER			

ELECTRICAL EQUIPMENT

INTRINSICALLY SAFE BARRIER	ISB	ISB	ISB
INTRINSICALLY SAFE RELAY	ISR	ISR	ISR

ABBREVIATIONS LEGEND

AMD	ADMITTANCE
CAP	CAPACITANCE
CL	CHLORINE
CP	CONTROL PANEL
CR	CONTROL RELAY
DO	DISSOLVED OXYGEN
ESTOP	EMERGENCY STOP
FOR	FORWARD-OFF-REVERSE
FSR	FORWARD-STOP-REVERSE
FRSA	FORWARD-STOP-REVERSE-AUTO
GBT	GRAVITY BELT THICKENER
HOA	HAND-OFF-AUTO
I	CURRENT
INF	INFLUENT
ISB	INTRINSICALLY SAFE BARRIER
ISR	INTRINSICALLY SAFE RELAY
LOE	LOSS OF ECHO
LOR	LOCAL-OFF-REMOTE
LT	PILOT LIGHT
MBS	MAINTENANCE BY-PASS SWITCH
MCC	MOTOR CONTROL CENTER
MES	MANAGED ETHERNET SWITCH
OCR	OPEN-CLOSE-REMOTE
OPT	OPERATOR TERMINAL
PB	PUSH BUTTON
PLC	PROGRAMMABLE LOGIC CONTROLLER
POT	POTENTIOMETER
RESET	ALARM RESET
ROL	RAISE OFF LOWER
ROR	RUN-OFF-REMOTE
SCR	SPEED CONTROL RECTIFIER
SCSP	SECONDARY CLARIFIER GREASE/SCUM PUMP
SS	SELECTOR SWITCH
TR	TIMER RELAY
TURB	TURBIDITY
ULT	ULTRASONIC
UPS	UNINTERRUPTIBLE POWER SUPPLY
VFD	VARIABLE FREQUENCY DRIVE

PUMPS

DESCRIPTION	EXISTING	NEW	FUTURE
POSITIVE DISPLACEMENT			
PROGRESSIVE CAVITY			
SCREW PUMP			
CENTRIFUGAL			
SUBMERSIBLE PUMP			
HOSE			
CHEMICAL METERING			
CHEMICAL TRANSFER			

BLOWERS

CENTRIFUGAL			
POSITIVE DISPLACEMENT			
COMPRESSOR/TURBO			
AIR INTAKE FILTER			

MISCELLANEOUS SYMBOLS

MIXER			
IN-LINE STATIC MIXER			
GRINDER			
WEIR			
STOP GATE			
SLIDE GATE			
SHEAR GATE			
CHEMICAL INJECTION NOZZLE			

FIELD INSTRUMENTS

DESCRIPTION	EXISTING	NEW	FUTURE
FIELD PIPE MOUNTED DEVICE			
PADDLE OR LEVER TYPE PROBE			
SUBMERSIBLE PRESSURE TRANSDUCER			
FLOAT SWITCH			
CAPACITANCE OR ADMITTANCE TYPE PROBE			
BUBBLE LIQUID LEVEL ELEMENT			
ULTRASONIC LEVEL TRANSDUCER			
RADAR LEVEL TRANSDUCER			
GUIDED WAVE RADAR			

FLOW METERS

MAGNETIC FLOW METER	M	M	M
VENTURI FLOW METER			
PARSHALL FLUME			
ULTRASONIC FLOW METER			
PITOT FLOW METER			
AVERAGING PITOT FLOW METER			
THERMAL MASS FLOW METER			
TURBINE FLOW METER	M	M	M
ORIFICE PLATE			

INDICATOR LIGHT COLOR LEGEND

RUN	GREEN
STOP	RED
WARNING	AMBER
ALARM	RED
POWER	WHITE

NOTES:

1. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. PROVIDE SIGNAL REPEATERS/CONVERTERS/BOOSTERS AS REQUIRED BASED UPON EQUIPMENT SELECTED BY INSTRUMENTATION SUPPLIER, DISTANCE AND LOCATION.
3. PROVIDE DRIP SHIELDS TO PROTECT ALL PANELS LOCATED UNDERNEATH PIPES OR OTHER LIQUID-CONTAINING STRUCTURES.
4. REFERENCE PROCESS AND ELECTRICAL DRAWINGS FOR LOCATION OF PANELS AND FIELD INSTRUMENTATION.
5. CONTRACTOR TO COORDINATE NEEDED VOLTAGE BASED UPON EQUIPMENT SUPPLIED.
6. ALL FLOOR MOUNTED CONTROL PANELS SHALL BE INSTALLED ON 4" HIGH CONCRETE EQUIPMENT PADS.
7. WHERE INPUT AND OUTPUT SIGNALS TO A PLC IS REQUIRED, PROVIDE PROPER TYPE AND QUANTITY OF INPUT/OUTPUT MODULES (I/O).
8. CONTRACTOR SHALL COORDINATE THE TYPE OF ANALOG SIGNAL PROVIDED BY THE EQUIPMENT OR FIELD DEVICES WITH THE PROPER TYPE PLC I/O.
9. ALL ANALOG SIGNALS WILL BE 4-20mA, UNLESS OTHERWISE INDICATED OR REQUIRED.

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe0046278
PROFESSIONAL ENGINEER
4/30/2025

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601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163	DESIGNED BY: R.MECHAM
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025

LEGEND

DR.	R.MECHAM
TRC.	-
CK.	R.MECHAM
AP.	R.MECHAM

I-00-001

DWG. No. 12221-W-33

SET NO. | SHEET NO. 66 of 92

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CAT6 PATCH PANEL
NETWORK SWITCH
FIREWALL
KVM MONITOR
RACK KVM SWITCH
SCADA 1
SCADA 2
DOMAIN CONTROLLER AND HISTORIAN (SRV-3)
NETWORK ATTACHED STORAGE (NAS-1)
FIBER OPTIC PATCH PANEL (FPP)
UPS POWER DISTRIBUTION
UPS-SERVER
NON-UPS POWER
120VAC
120VAC

SCADA CLIENT (DEWATERING CONTROL ROOM)

DEWATERING CONTROL PANEL DW-CP (DIV. 13)
FPP-DW
OIT-DW
MES-DW
PLC-DW
MBS-DW
UPS-DW

GRAVITY BELT THICKENER CONTROL PANEL GBTCP-1 (DIV. 11)
480VAC
OIT-GBT-1
MES-GBT-1
PLC-GBT-1
MBS-GBT-1
UPS-GBT-1

POLYMER BLEND CONTROL PANEL PBUCP-1 (DIV. 11)
480VAC
OIT-PBU-1
MES-PBU-1
PLC-PBU-1
MBS-PBU-1
UPS-PBU-1

SEE NOTE 1

SEPTAGE BAR SCREEN CONTROL PANEL SBS-CP (DIV. 11)
120VAC
OIT-SBS
ES-SBS
PLC-SBS
MBS-SBS
UPS-SBS

NORTH RAS PUMP STATION CONTROL PANEL NR-CP (DIV. 13)
120 VAC
FPP-NR
OIT-NR
MES-NR
PLC-NR
MBS-NR
UPS-NR

GRAVITY BELT THICKENER CONTROL PANEL GBTCP-2 (DIV. 11)
480VAC
OIT-GBT-2
MES-GBT-2
PLC-GBT-2
MBS-GBT-2
UPS-GBT-2

POLYMER BLEND CONTROL PANEL PBUCP-2 (DIV. 11)
480VAC
OIT-PBU-2
MES-PBU-2
PLC-PBU-2
MBS-PBU-2
UPS-PBU-2

SEPTAGE SCREENING WASH PRESS CONTROL PANEL SSWP-CP (DIV. 11)
120VAC
OIT-SSWP
ES-SSWP
PLC-SSWP
MBS-SSWP
UPS-SSWP

SEPTAGE CONTROL PANEL SEP-CP (DIV. 13)
120VAC
FPP-SEP
OIT-SEP
MES-SEP
PLC-SEP
MBS-SEP
UPS-SEP

DEWATERED SLUDGE TRANSFER PUMP CONTROL PANEL DSFPCP-1 (DIV. 11)
OIT-DSFP-1
MES-DSFP-1
PLC-DSFP-1

DEWATERED SLUDGE TRANSFER PUMP CONTROL PANEL DSFPCP-2 (DIV. 11)
OIT-DSFP-2
MES-DSFP-2
PLC-DSFP-2

480VAC
OIT-PBU-3
MES-PBU-3
PLC-PBU-3
MBS-PBU-3
UPS-PBU-3

POLYMER BLEND CONTROL PANEL PBUCP-3 (DIV. 11)

LEGEND:

- CAT-PLC — ETHERNET PLC COMMUNICATION
- CAT-SC — ETHERNET SCADA COMMUNICAITON
- FO-SC — FIBER OPTIC SCADA COMM
- DP — DP — PROFIBUS DP

OPERATOR TERMINAL INTERFACE OR HMI
RACK STYLE PROGRAMMABLE LOGIC CONTROLER (PLC)
FIBER PATCH PANEL
SCADA SERVER — DIN RAIL MOUNTED INTERIM SCADA SERVER
12-PORT MANAGED MODULAR INDUSTRIAL ETHERNET SWITCH
UPS — UNINTERRUPTABLE POWER SUPPLY
MAINTENANCE BYPASS SWITCH
DATA PORT
SCADA CLIENT

NOTES:
1. TO BE INSTALLED UNDER SEPARATE CONTRACT.
2. FOR ALL EQUIPMENT SHOWN AS "NOT IN THIS CONTRACT", THE CONTRACTOR SHALL PROVIDE SUFFICIENT NETWORK CONNECTIONS ON PROVIDED NETWORK SWITCHES AND PATCH PANELS TO SUPPORT THE WORK SHOW AS "NOT IN THIS CONTRACT"

STATE OF LOUISIANA — STEVEN CHARLES HALLOWELL — License No. Pe0046278 — PROFESSIONAL ENGINEER — 4/30/2025

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

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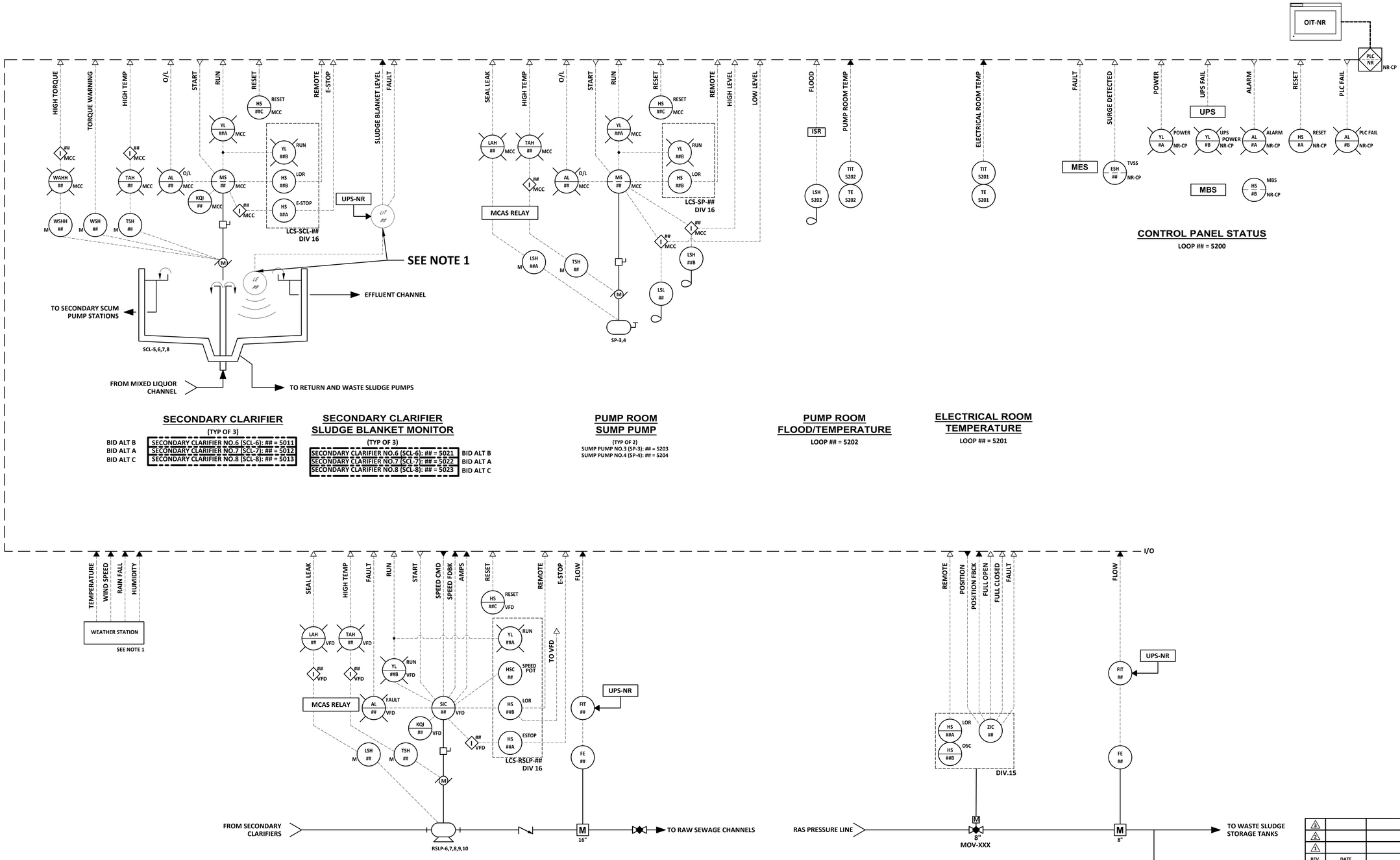
CONTROL SYSTEM ARCHITECTURE

PROJECT NO: 21163	DESIGNED BY: R.MECHAM
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

DR. R.MECHAM	
TRC. -	
CK. R.MECHAM	
AP. R.MECHAM	
SCALE: AS NOTED	
DATE: APRIL 2025	

I-00-002
DWG. No. 12221-W-33
SET NO. — SHEET NO. 67 of 92

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CONTROL PANEL STATUS
LOOP ## = 5200

SECONDARY CLARIFIER
(TYP OF 3)

BID ALT B — SECONDARY CLARIFIER NO.6 (SCL-6): ## = 5011
BID ALT A — SECONDARY CLARIFIER NO.7 (SCL-7): ## = 5012
BID ALT C — SECONDARY CLARIFIER NO.8 (SCL-8): ## = 5013

SECONDARY CLARIFIER SLUDGE BLANKET MONITOR
(TYP OF 3)

SECONDARY CLARIFIER NO.6 (SCL-6): ## = 5021 — BID ALT B
SECONDARY CLARIFIER NO.7 (SCL-7): ## = 5022 — BID ALT A
SECONDARY CLARIFIER NO.8 (SCL-8): ## = 5023 — BID ALT C

PUMP ROOM SUMP PUMP
(TYP OF 2)
SUMP PUMP NO.3 (SP-3): ## = 5203
SUMP PUMP NO.4 (SP-4): ## = 5204

PUMP ROOM FLOOD/TEMPERATURE
LOOP ## = 5202

ELECTRICAL ROOM TEMPERATURE
LOOP ## = 5201

WEATHER STATION
LOOP 5205

RETURN SLUDGE PUMPS
(TYP OF 5)
RETURN SLUDGE PUMPS NO. 6 (RSLP-6): ## = 5210
RETURN SLUDGE PUMPS NO. 7 (RSLP-7): ## = 5211
RETURN SLUDGE PUMPS NO. 8 (RSLP-8): ## = 5212
RETURN SLUDGE PUMPS NO. 9 (RSLP-9): ## = 5213
RETURN SLUDGE PUMPS NO.10 (RSLP-10): ## = 5214

RETURN SLUDGE FLOW
(TYP OF 5)
FE NO. 6: ## = 5210
FE NO. 7: ## = 5211
FE NO. 8: ## = 5212
FE NO. 9: ## = 5213
FE NO. 10: ## = 5214

MOTOR OPERATED VALVE
LOOP ## = 5220

WASTE ACTIVATED SLUDGE FLOW
LOOP ## = 5220

NOTES:
1. THE WEATHER STATION PROVIDED MAY BE CONNECTED USING ANALOG SIGNALING OR NETWORK COMMUNICATIONS. SEE 13440-2.1, B, 10.
2. THIS SHEET CONTAINS BID ALTERNATE "A", "B", AND "C" ITEMS AS DESCRIBED IN SPECIFICATION SECTION 01100-ALTERNATES
3. EXISTING LEVEL ELEMENT TO BE REMOVED AND REINSTALLED ON THE NEW BRIDGE WAY.

SHEET CONTAINS BID ALTERNATE "A", "B", "C"

REV.	DATE	DESCRIPTION	BY
3			
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

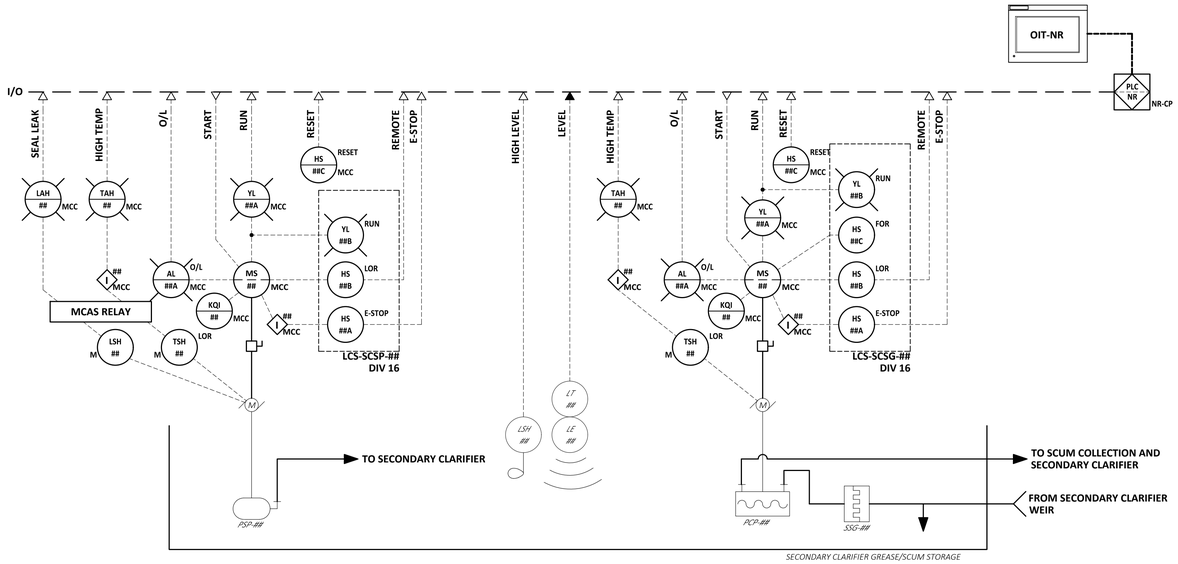
LOOPS I

STEVEN CHARLES HALLOWELL, License No. PE0046278, STATE OF LOUISIANA, PROFESSIONAL ENGINEER, 4/30/2025

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DR. R.MECHAM	I-00-003
TRC. -	
CK. R.MECHAM	
AP. R.MECHAM	DWG. No. 12221-W-33
PROJECT NO: 21163	DESIGNED BY: R.MECHAM
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025
SET NO.	SHEET NO. 68 of 92

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	SECONDARY CLARIFIER GREASE/SCUM PUMP (TYPE OF 3)	SECONDARY CLARIFIER GREASE/SCUM STORAGE LEVEL (TYPE OF 3)	SECONDARY CLARIFIER GREASE/SCUM GRINDER AND PUMP (TYPE OF 3)
BID ALT B	SCSP NO.6 = 5231	SCSP NO.6 = 5239	SCSP NO.6 = 5235
BID ALT A	SCSP NO.7 = 5232	SCSP NO.7 = 5240	SCSP NO.7 = 5236
BID ALT C	SCSP NO.8 = 5233	SCSP NO.8 = 5241	SCSP NO.8 = 5237

NOTES:
1. THIS SHEET CONTAINS BID ALTERNATE "A", "B", AND "C" ITEMS AS DESCRIBED IN SPECIFICATION SECTION 01100-ALTERNATES

SHEET CONTAINS BID ALTERNATE "A", "B", "C"

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

LOOPS II

STEVEN CHARLES HALLOWELL
License No. PE0046278
PROFESSIONAL ENGINEER
STATE OF LOUISIANA
4/30/2025

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PROJECT NO: 21163	DESIGNED BY: R.MECHAM
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

DR. R.MECHAM	
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CK. R.MECHAM	
AP. R.MECHAM	
SCALE: AS NOTED	
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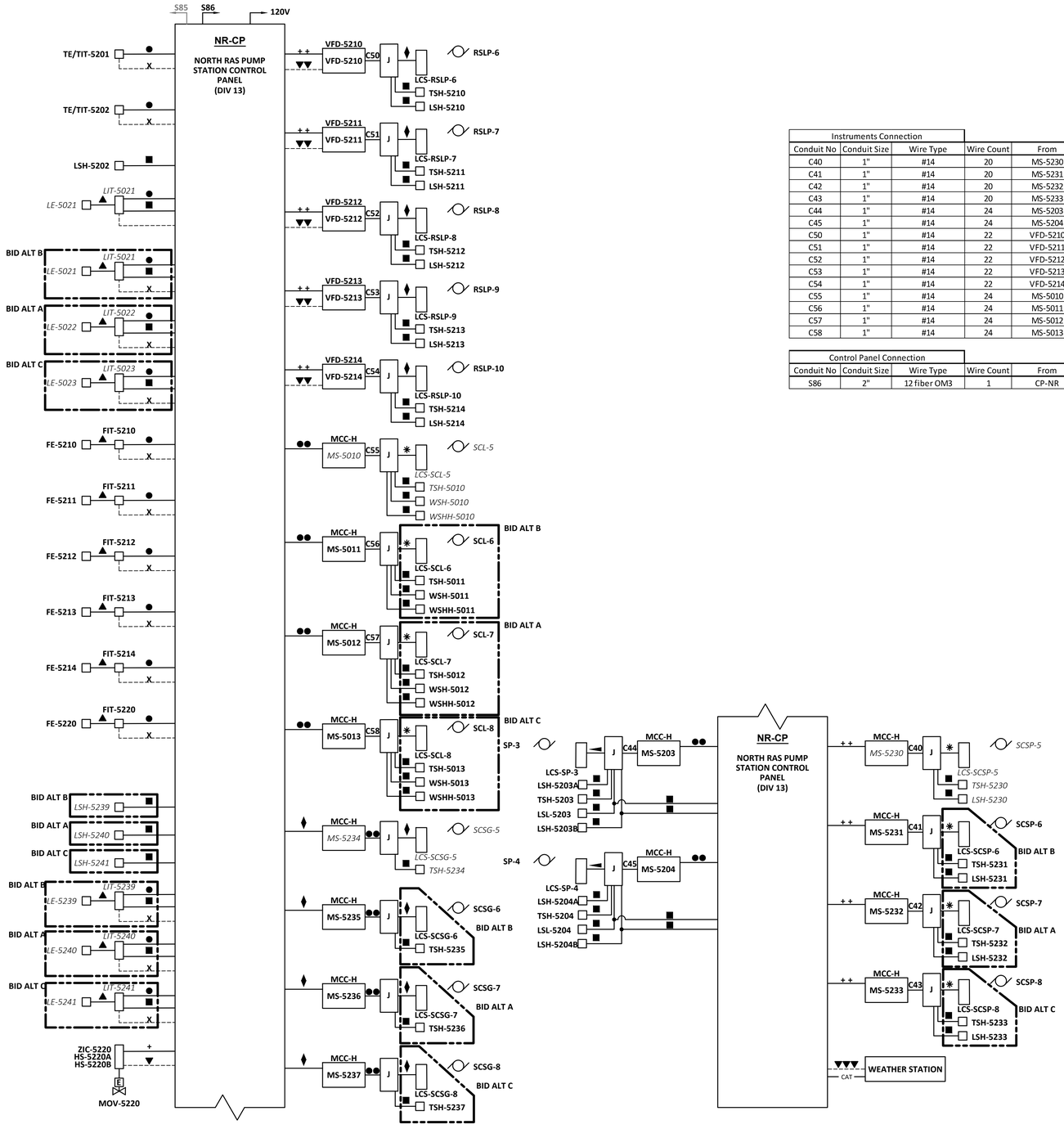
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DWG. No. 12221-W-33

SHEET NO. 69 of 92

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INSTRUMENTATION AND CONTROL DIAGRAM

NTS

Instruments Connection					
Conduit No	Conduit Size	Wire Type	Wire Count	From	To
C40	1"	#14	20	MS-5230	Secondary Clarifier Grease/Scum Pump No.5
C41	1"	#14	20	MS-5231	Secondary Clarifier Grease/Scum Pump No.6
C42	1"	#14	20	MS-5232	Secondary Clarifier Grease/Scum Pump No.7
C43	1"	#14	20	MS-5233	Secondary Clarifier Grease/Scum Pump No.8
C44	1"	#14	24	MS-5203	Pump Room Sump Pump No.1
C45	1"	#14	24	MS-5204	Pump Room Sump Pump No.2
C50	1"	#14	22	VFD-5210	Return Sludge Pump No.6
C51	1"	#14	22	VFD-5211	Return Sludge Pump No.7
C52	1"	#14	22	VFD-5212	Return Sludge Pump No.8
C53	1"	#14	22	VFD-5213	Return Sludge Pump No.9
C54	1"	#14	22	VFD-5214	Return Sludge Pump No.10
C55	1"	#14	24	MS-5010	Grease Scum/Grinder and Pump No.5
C56	1"	#14	24	MS-5011	Grease Scum/Grinder and Pump No.6
C57	1"	#14	24	MS-5012	Grease Scum/Grinder and Pump No.7
C58	1"	#14	24	MS-5013	Grease Scum/Grinder and Pump No.8

Control Panel Connection					
Conduit No	Conduit Size	Wire Type	Wire Count	From	To
S86	2"	12 fiber OM3	1	CP-NR	Future SCADA

LEGEND:

1. **THE FOLLOWING SYMBOLS SHOWN ON THE CONTROL AND INSTRUMENTATION DIAGRAMS SHALL BE NOTED AS FOLLOWS:**
   - ▲ MANUFACTURER SUPPLIED CABLE, PROVIDE CONDUIT SIZED AS REQUIRED
   - ■ PROVIDE 3/4"C, 4#14
   - ▬ PROVIDE 3/4"C, 6#14
   - ◤ PROVIDE 3/4"C, 8#14
   - + PROVIDE 3/4"C, 10#14
   - ✳ PROVIDE 3/4"C, 12#14
   - ♦ PROVIDE 3/4"C, 14#14
   - + + PROVIDE 1"C, 16#14
   - ●● PROVIDE 1"C, 18#14
   - ●●● PROVIDE 1"C, 26#14
   - ● PROVIDE 3/4"C, 2#12 & 1#12 GND (POWER SUPPLY)
   - ◆ PROVIDE 3/4"C, (1)-2C #16 TWS
   - X PROVIDE 3/4"C, (2)-2C #16 TWS
   - ▼ PROVIDE 1"C, (3)-2C #16 TWS
   - ▼▼ PROVIDE 1"C, (4)-2C #16 TWS
   - ▼▼▼ PROVIDE 1"C, (5)-2C #16 TWS
   - ⬡ PROVIDE 1"C, (2)-3/C #16 TWS
   - ▟ PROVIDE 3/4"C, CAT 6 ETHERNET CABLE
   - ** PROVIDE FINAL CONNECTIONS TO ALL CHEMICAL METERING PUMPS USING HEAVY-DUTY, EXTRA-FLEXIBLE, WATER AND CHEMICAL RESISTANT CABLES. CONDUCTORS SHALL BE NO.18 AWG. ALL CONNECTIONS SHALL BE MADE WATERTIGHT. REFER TO ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION.

SEE NOTE 1

NOTES:

1. NOT FINAL, FOR COORDINATION PURPOSES

SHEET CONTAINS BID ALTERNATE "A", "B", "C"

REV.	DATE	DESCRIPTION	BY
3			
2			
1			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE IA
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
STEVEN CHARLES HALLOWELL
License No. Pe0046278
PROFESSIONAL ENGINEER
4/30/2025

WRIGHT-PIERCE
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601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

SCHEMATICS I

PROJECT NO: 21163	DESIGNED BY: R.MECHAM
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

DR. M.FELICE	
TRC. -	
CK. R.MECHAM	
AP. R.MECHAM	
SCALE: AS NOTED	
DATE: APRIL 2025	

I-00-005

DWG. No. 12221-W-33

SET NO. | SHEET NO. 70 of 92

LAST SAVED BY: MORGAN.FELICE 4/21/2025 8:54 AM

J:\ENGV\LA\NEWORLEANS\21163-EASTBANKSTP PHASE 1_VWW_IMPROVEMENTS_DRAWINGS\PHASE-1A\INS\21663-IS-CI-DIAGRAMS-P1A.DWG | C-1 | 1:10.12364677 | — | 4/25/2025 10:43:49 AM | MORGAN.FELICE

LAST SAVED BY: GLALA 4/24/2025 8:59 AM

P:\PROJECTS\23-023 WRIGHT-PIERCE - SWB EBWWTP ELECTRICAL MODIFICATIONS\DRAWINGS\PHASE 1A\PRODUCTION DRAWINGS\ELECTRICAL\21163-ES-LEGENDNOTES.DWG | ELECTRICAL LEGENDS NEMA & CONDUIT SCHEDULE | 1:10.1236467 | ---- | 4/25/2025 7:55:37 AM | GLALA

POWER

	DESCRIPTION
200/3	UNFUSED SAFETY SWITCH, RATING AS NOTED POLES AMPERES
30/15/3	FUSED SAFETY SWITCH, RATING AS NOTED POLES FUSE AMPERE RATING SWITCH AMPERE RATING
1	MAGNETIC MOTOR STARTER, RATING AS NOTED NEMA SIZE
	COMBINATION TYPE MAGNETIC MOTOR STARTER, RATING AS NOTED
	PUSHBUTTON OR SELECTOR SWITCH STATION
	MAINTAINED RED MUSHROOM-HEAD EMERGENCY STOP P.B.
	SOLENOID
R	RELAY
MOD	MOTOR OPERATED DAMPER
C	LIGHTING OR POWER CONTACTOR
CB	ENCLOSED CIRCUIT BREAKER
T	THERMOSTAT C — COOLING ONLY F — FREEZESTAT D — DUCT-MOUNTED
	UTILITY METER
	PANELBOARD, SURFACE MTD.
	PANELBOARD, FLUSH MTD.
	EQUIPMENT, TERMINAL, OR CONTROL CABINET
	MOTOR
T	TRANSFORMER
	PAD MOUNTED TRANSFORMER
EWH	ELECTRIC WATER HEATER
H	ELECTRICAL HANDHOLE
J J	JUNCTION BOX
PS	PRESSURE SWITCH
M	MOTOR OPERATED VALVE
P	PHOTOELECTRIC CELL
MS	MANUAL MOTOR STARTER
FI	FIROMATIC SWITCH

GROUNDING

DESCRIPTION	
	GROUND ROD
	EXOTHERMIC WELD CONNECTION
	BOLTED CONNECTION
G	BARE COPPER CONDUCTOR RUN EXPOSED
G	BARE COPPER CONDUCTOR EMBEDDED IN CONCRETE OR BURIED

NOTE:

1. ALL SYMBOL LISTS SHALL BE CONSIDERED AS APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT. SYMBOLS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION IN THE DESIGN.

SINGLE LINE DIAGRAM

DESCRIPTION	
	SAFETY DISCONNECT SWITCH
	TRANSFORMER
CT	CURRENT TRANSFORMER
PT	POTENTIAL TRANSFORMER
100AF 70AT	FRAME SIZE CIRCUIT BREAKER TRIP AMPS
	SURGE CAPACITOR
	LIGHTNING ARRESTER
	COMBINATION MOTOR STARTER AND BREAKER
	AUTOTRANSFORMER-TYPE MOTOR STARTER
	REVERSING MOTOR STARTER
	TWO-SPEED TWO-WINDING MOTOR STARTER
	REDUCED VOLTAGE SOLID-STATE MOTOR STARTER
	DELTA CONNECTION
	WYE CONNECTION
	GROUND CONNECTION
S	MOTOR (HP AS SHOWN)
	GENERATOR
N E	TRANSFER SWITCH
ES	EMERGENCY STOP MUSHROOM SWITCH (RED)
SPD	SURGE PROTECTION DEVICE
A	METER A - AMMETER V - VOLTMETER W - WATTMETER WH - WATT HOURMETER KWH - KILOWATT HOUR VAR - VAR METER HZ - FREQUENCY METER PF - POWER FACTOR METER

LIGHTING FIXTURES

DESCRIPTION	
	FLUORESCENT FIXTURE, 2x4 SURFACE TROFFER TYPE
Ma,#3	FIXTURE (M) SWITCH (a) CIRCUIT (3)
	FLUORESCENT FIXTURE, STRIP, OPEN REFLECTOR, ENCLOSED OR WRAPAROUND TYPE
	INCANDESCENT WALL MOUNTED FIXTURE
	INCANDESCENT CEILING FIXTURE
	INCANDESCENT LIGHT WITH GLOBE AND GUARD
	H.I.D. WALL MOUNTED FIXTURE
	H.I.D. CEILING FIXTURE
	EXIT SIGN, CEILING MOUNTED ARROW INDICATES EGRESS DIRECTION SHADING INDICATES SIGN FACE
	EXIT SIGN, WALL MOUNTED SHADING INDICATES SIGN FACE
	EMERGENCY LIGHTING BATTERY UNIT WITH 2 LAMP HEADS
	REMOTE EMERGENCY LIGHTING 1 OR 2 LAMP HEADS
	POLE MOUNTED SITE LIGHT

SCHEMATIC DIAGRAM

DESCRIPTION	
MS	MANUAL MOTOR STARTER, O/L, RIL FRACTIONAL H.P.
CR	CONTROL RELAY
M	MOTOR CONTACTOR
	CONTACT NORMALLY OPEN
	CONTACT NORMALLY CLOSED
	OVERLOAD HEATER ELEMENT
	SINGLE POLE SINGLE THROW SWITCH
	SELECTOR SWITCH
	START PUSHBUTTON, MOMENTARY CONTACT
	STOP PUSHBUTTON, MOMENTARY CONTACT
	RED MUSHROOM-HEAD MAINTAINED-TYPE EMERGENCY STOP PUSHBUTTON
	LIMIT SWITCH
	TEMPERATURE SWITCH
	FLOAT SWITCH
	PRESSURE SWITCH
	TORQUE SWITCH
	TIMED CONTACT
R	PILOT LIGHT, LETTER INDICATES COLOR G — GREEN R — RED A — AMBER
	FUSE
	CONNECTION POINT FOR EXTERNAL DEVICE
	INTERNAL CONNECTION POINT
	COOLING FAN

FIRE ALARM SYSTEM

DESCRIPTION	
F	MANUAL PULL STATION
F	AUDIO/VISUAL ALARM STATION (ADA COMPLIANT)
L	VISUAL ALARM (ADA COMPLIANT)
S	SMOKE DETECTOR
H 135°	HEAT DETECTOR TEMP RATING
SD	DUCT-MOUNTED SMOKE DETECTOR, REMOTE ALARM & TEST
FACP	FIRE ALARM SYSTEM CONTROL PANEL
TS	SPRINKLER SYSTEM TAMPER SWITCH
FAA	FIRE ALARM ANNUNCIATOR
FS	SPRINKLER SYSTEM FLOW SWITCH
FRPS	FIRE ALARM REMOTE POWER SUPPLY
MM	FIRE ALARM SYSTEM "MONITOR MODULE"
FIM	FAULT ISOLATING MODULE
TS	REMOTE TEST STATION
ILCP	INTEGRAL LIGHTNING CIRCUIT PROTECTOR

TELEPHONE/PAGING/INTERCOM SYSTEM

DESCRIPTION	
S	PAGING SPEAKER, CEILING MTD.
	PAGING HORN, WALL MTD.
	TELEPHONE OUTLET RJ11
TD	TELEPHONE RJ11/DATA RJ45
W	WALL MOUNTED
HS	PAGING HANDSET, WALL MOUNTED

WIRING DEVICES

DESCRIPTION	
	20 AMPERE, 120 VOLT DUPLEX RECEPTACLE
	GFI 20 AMPERE, 120 VOLT DUPLEX RECEPTACLE
+48"	INDICATES INCHES AFF MOUNTING HEIGHT
WP	WEATHERPROOF
IG	ISOLATED GROUND
CTR	COUNTER TOP
	20 AMPERE, 120 VOLT QUAD RECEPTACLE
	20 AMPERE, 120 VOLT SINGLE RECEPTACLE
	CLOCK OUTLET
30	SINGLE SPECIAL PURPOSE RECEPTACLE INDICATES AMPERE SIZE
	PLUGMOLD
S	SINGLE POLE WALL SWITCH
DP	DOUBLE POLE SWITCH
3	THREE WAY SWITCH
4	FOUR WAY SWITCH
P	NEON PILOT LIGHT
WP	WEATHERPROOF
K	KEY OPERATED
EP	EXPLOSION PROOF
D	DIMMER SWITCH
T	MOTOR RATED
EM	EMERGENCY SHUT-OFF

WIRING

DESCRIPTION	
	WIRING, CONCEALED IN FINISHED AREAS, EXPOSED WHERE PERMITTED BY SPECIFICATIONS
	WIRING INSTALLED IN OR BELOW FLOOR SLAB
EBU-XX	HOME RUN TO DEVICE (EBU, ATC, ETC.)
P101	HOME RUN (NO. REFERS TO CONDUIT AND WIRE SCHEDULE)
DC	DC WIRING
3C#12 W/GND, .75"C	CONDUIT AND WIRE
	CONDUIT DOWN
	CONDUIT UP
#XX	INDICATES THE CIRCUIT # OF THE RESPECTIVE PANELBOARD REFERENCED. SEE GENERAL NOTES 6 AND 26 FOR CONDUIT AND WIRING REQUIREMENTS

SECURITY SYSTEM

DESCRIPTION	
SACP	SECURITY ALARM CONTROL PANEL
K WP	SECURITY SYSTEM FUNCTION KEYPAD WEATHERPROOF
D OH	DOOR CONTACT OVERHEAD DOOR TYPE
W	GLASS BREAK CONTACT, GLASS MOUNTED TYPE
IR A	INFRARED INTRUDER SENSOR
G A	AREA GLASS BREAK DETECTOR

NEMA CLASSIFICATIONS FOR ELECTRICAL EQUIPMENT AND ENCLOSURES

(UNLESS OTHERWISE NOTED - SEE NOTE BELOW)

ROOM NAME	NEMA RATING
NORTH RAS PUMP STATION	
PUMP ROOM	4X
ELECTRICAL ROOM	12
UTILITY ROOM	12
THICKENED SLUDGE	
PUMP GALLERY	4X
THICKENED SLUDGE CANOPY (OUTDOORS)	
GRAVITY BELT THICKENERS - WITHIN 3'	7(CL 1, DIV 1)
- BEYOND 3'	4X
THICKENED/WAS STORAGE TANKS	
WITHIN TANKS	7(CL 1, DIV 1)
OUTDOORS	4X
SOLIDS HANDLING BLDG.	
EFFLUENT PUMP MOTOR ROOM	4X
ELECTRICAL ROOM	12
CONTROL ROOM	12
GARAGE ROOM	12
DEWATERING AREA	4X
POLYMER AND SLUDGE DISPOSAL ROOM	4X
SEDIMENTATIONS BASINS	
PIPE GALLERY	7(CL 1, DIV 1, GR D)
LIQUID SLUDGE/SEPTAGE RECEIVING FACILITIES	
WITHIN TANKS	7(CL 1, DIV 1, GR D)
OUTDOORS	4X
OUTDOORS	
GENERAL OUTDOORS	4X
POLYMER SHELTER	
WITH SHELTER	4X
OUTDOORS	4X

NOTES:

1. THE AREAS NOTED SHALL BE RATED AS INDICATED, EXCEPT THAT EQUIPMENT SUCH AS MOTOR CONTROL CENTERS, SWITCHBOARDS, AND TRANSFORMERS SHALL BE RATED AS SPECIFIED. PANELBOARDS AND TRANSFORMERS SHALL BE, AT A MINIMUM, RATED NEMA 12 IF NOT SPECIFIED.
2. AREAS WITHIN 3' OF VENTS ARE RATED NEMA 7(CLASS 1, DIV. 1) AND BETWEEN 3' AND 5' ARE RATED NEMA 7(CLASS 1, DIV. 2). AREAS 18" ABOVE AND WITHIN 3' FROM HATCH OPENINGS ARE RATED NEMA 7(CLASS 1, DIV. 2). AREAS WITHIN A 3' ENVELOPE FROM DOORS ARE RATED NEMA 7(CLASS 1, DIV. 2).
3. WATER SURFACE TO 18" ABOVE TANK AND 10 FEET FROM WALL 18" ABOVE GRADE IS RATED NEMA 7 (CLASS 1, DIV. 2) AREAS 18" ABOVE TANK WALL AND ABOVE GRADE ARE RATED UNCLASSIFIED NEMA 4X.

** CONDUIT INSTALLATION SCHEDULE

AREA NEMA RATING PER E-1	CONDUIT REQUIRED IN EXPOSED AREAS	CONDUIT REQUIRED IN NON EXPOSED AREAS	CONDUITS EMERGING FROM GRADE OR SLAB 12" AFF
1/12	* ALUMINUM	EMT	RGS PVC COATED
3R	* ALUMINUM	RGS	RGS PVC COATED
4	* ALUMINUM	RGS	RGS PVC COATED
4X	* ALUMINUM	RGS	RGS PVC COATED
4X CORROSIVE	RGS PVC COATED	RGS	RGS PVC COATED
4X CORROSIVE ABOVE 8'	PVC SCHEDULE 80	RGS	N/A
7	RGS PVC COATED	RGS	RGS PVC COATED
* IN CONCRETE SLAB	N/A	PVC SCHEDULE 40	RGS PVC COATED
* BELOW GRADE DUCT ENCASED IN CONCRETE	N/A	PVC SCHEDULE 40	RGS PVC COATED
* BELOW GRADE DUCT NON ENCASED	N/A	PVC SCHEDULE 80	RGS PVC COATED

** SEE SPECIFICATIONS FOR FURTHER INFORMATION
* SIGNAL CONDUITS SHALL BE RGS

REV.	DATE	DESCRIPTION	BY
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△			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

Infinity Engineering Consultants, LLC — IEC Project No 23-023
Civil Structural Mechanical Electrical Marine Transportation
Metairie, LA www.infinityec.com 504-304-0548

STATE OF LOUISIANA
JOHN C. LAWRENCE
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REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
4-29-2025

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ELECTRICAL LEGEND, NEMA AND CONDUIT INSTALLATION SCHEDULES

PROJECT NO: 21163	DESIGNED BY: M. TORRES	DR. G. LALA	E-00-001
SUBMISSION: CONTRACT DRAWINGS		TRC.	
CAD COORD: A.COUTURE		CK. J. LAWRENCE	
		AP. J. LAWRENCE	DWG. No. 12221-W-33
		SCALE: AS NOTED	
		DATE: APRIL 2025	SET NO. SHEET NO. 71 of 92

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E-00-002 ELECTRICAL NOTES AND ABBREVIATIONS | 1:10.12364677 | ---

ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT
ACR	CONTROL RELAY "A" (TYP)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AI	ANALOG INPUT (PLC)
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AO	ANALOG OUTPUT (PLC)
ASYM	ASYMMETRICAL
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISHED GRADE
BKR	BREAKER
BOS	BOTTOM OF STEEL
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCF	CARBON CANISTER FILTER
CI	CONTROL INTERLOCK
CKT	CIRCUIT
CP	CONTROL PANEL
CR	CONTROL RELAY
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
DB	DIRECT BURIED
DBH	DIESEL BLOCK HEATER
DC	DIRECT CURRENT
DI	DIGITAL INPUT (PLC)
DISC	DISCONNECT
DN	DOWN
DO	DIGITAL OUTPUT (PLC)
EBU	EMERGENCY BATTERY UNIT
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EG	EQUIPMENT GROUND
EH	ELECTRICALLY HELD
EHH	ELECTRICAL HANDHOLE
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EO	ELECTRICALLY OPERATED
EP	EXPLOSION PROOF CL I DIV 1 GR D
EPR	ETHYLENE PROPYLENE RUBBER
EQUIP	EQUIPMENT
ES	EMERGENCY STOP
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX	EXTERIOR
EXIT	EXISTING
F	FIELD
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FC	FOOTCANDLE
FE	FLOW ELEMENT
FIT	FLOW INDICATOR TRANSMITTER
FLUOR	FLUORESCENT
FNR	FORWARD NEUTRAL REVERSE
FS	FLOW SWITCH
FTR	FIN TUBE RADIATOR
FU	FUSE
FWE	FURNISHED WITH EQUIPMENT
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
GCP	GENERATOR CONTROL PANEL
GEN	GENERATOR
GF	GROUND FAULT
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HIT	HIGH INTENSITY TUNGSTEN
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HTR	HEATER
HV	HIGH VOLTAGE
HVAC	HEATING VENTILATING AIR CONDITIONING
HWV	HOT WATER VALVE
HZ	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
ISR	INTRINSICALLY SAFE RELAY
JB	JUNCTION BOX
JU	JUMPER WIRE
K	KILO
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KVAR	KILOVOLT-AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT-HOUR
L	LOCAL
LA	LIGHTNING ARRESTER
LCP	LOCAL CONTROL PANEL
LCS	LOCAL CONTROL STATION
LE	LEVEL ELEMENT
LI	LEVEL INDICATOR
LIT	LEVEL INDICATOR TRANSMITTER
LP	LIGHTING PANEL
LPS	LOW PRESSURE SODIUM
LSW	LIGHT SWITCH
LS	LEVEL SWITCH L=LOW, H=HIGH, LL=LOW LOW, HH=HIGH HIGH
LT	LEVEL TRANSMITTER
LTG	LIGHTING
LV	LOW VOLTAGE
MC	METAL CLAD
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MFR	MANUFACTURER
MI	MINERAL INSULATED
MH	MANHOLE
MLO	MAIN LUG ONLY
MO	MECHANICALLY OPERATED
MOD	MOTOR OPERATED DAMPER
MOV	MOTOR OPERATED VALVE
MS	MOTOR STARTER
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MVA	MEGAVOLT-AMPERE
MV	MEDIUM VOLTAGE
NC	NORMALLY CLOSED
NEG	NEGATIVE
NEU	NEUTRAL
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OEM	FURNISHED BY MANUFACTURER
OH	OVERHEAD
OL	OVERLOAD
OOA	ON-OFF-AUTOMATIC
OSY	OUTSIDE STEM AND YOKE VALVE (FA SYSTEM)
P	POLE
PB	PUSHBUTTON
PC	PERSONAL COMPUTER
PE	PRESSURE ELEMENT
PF	POWER FACTOR
PH	PHASE
PIT	PRESSURE INDICATOR TRANSMITTER
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PT	PRESSURE TRANSMITTER
PVC	POLYVINYL CHLORIDE
QI	LOAD KW INDICATOR
R	REMOTE
RGS	RIGID GALVANIZED STEEL CONDUIT
RIL	RED INDICATING LIGHT (TYP) B=BLUE, G=GREEN, A=AMBER
RSC	RIGID STEEL CONDUIT
RTD	RESISTANCE TEMPERATURE DETECTOR
RVSS	REDUCED VOLTAGE SOLID STATE
S	SURFACE
SEC	SECONDARY
SF	SUPPLY FAN
SHLD	SHIELDED CABLE
SI	SPEED INDICATOR
SN	SOLID NEUTRAL
SP	SPARE
SPD	SURGE PROTECTIVE DEVICE
SS	SURGE SUPPRESSOR
STP	SHIELDED TWISTED PAIR
STT	SHIELDED TWISTED TRIPLET
SV3	3 WAY VALVE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMMETRICAL
T	TRANSFORMER
TB	TERMINAL BLOCKS
TOS	TOP OF STEEL
TS	THERMOSTAT
TC	COOLING THERMOSTAT
TD	TEL DIALER
TDR	TIME DELAY RELAY
TE	TEMPERATURE ELEMENT
TEL	TELEPHONE
TF	FREEZE STAT
TH	HUMIDISTAT
TIT	TEMPERATURE INDICATING TRANSMITTER
TL	TEMPERATURE LOW
TOA	THERMOSTAT OUTSIDE AIR
TRANSF	TRANSFORMER
TS	THERMOSTAT
TS	TEMPERATURE SWITCH
TWS	TWISTED SHIELDED CABLE
UG	UNDERGROUND
UH	UNIT HEATER
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VA	VOLT-AMPERE
VAR	VOLT-AMPERE REACTIVE
VFD	VARIABLE FREQUENCY DRIVE
VPS	VACUUM PRESSURE SWITCH
W	WIRE
WH	WATT HOUR
WM	WATT METER
WP	WEATHERPROOF
XLP	CROSS LINKED POLYETHYLENE
XFMR	TRANSFORMER
ZSC	LIMIT SWITCH CLOSED
ZSO	LIMIT SWITCH OPEN

NOTE:
1. ALL GENERAL NOTES, AND ABBREVIATIONS SHALL BE CONSIDERED AS APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT. ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION IN THE DESIGN.

GENERAL DEMOLITION NOTES:

1. THE EXISTING ELECTRICAL DRAWINGS FOR THIS PROJECT ARE BASED ON INFORMATION PRESENTED IN THE AS-BUILT CONTRACT DRAWINGS PROVIDED FOR THIS PROJECT. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
2. FIELD VERIFY ALL CONDITIONS AFFECTING THE WORK PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. PROTECT ALL EXISTING ITEMS AND EQUIPMENT ADJACENT TO THE WORK AREA. ALL EXISTING ITEMS, EQUIPMENT AND MATERIALS DAMAGED OR AFFECTED BY THE WORK SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
4. THE FACILITY WILL REMAIN IN OPERATION DURING THE CONSTRUCTION OF THE PROJECT. THE CONTRACTOR WILL COORDINATE THE DEMOLITION AND CONSTRUCTION WITH THE OWNER'S REQUIREMENTS TO MAINTAIN PLANT OPERATION.
5. PROVIDE ALL TEMPORARY BRACING REQUIRED AND SUPPORT ALL ITEMS AND EQUIPMENT MOUNTED TO THE WALLS WHICH ARE DESIGNATED TO BE REMOVED. REINSTALL ALL ITEMS AFTER THE NEW WALLS ARE COMPLETED.
6. PATCH, REPAIR AND REFINISH ALL EXISTING SURFACES AFFECTED BY THE WORK, TO THE SATISFACTION OF THE ENGINEER.
7. REMOVE, REINSTALL OR REPLACE ALL MISCELLANEOUS ITEMS MOUNTED TO THE WALLS DESIGNATED TO BE REMOVED OR RENOVATED.
8. ALL ITEMS SHOWN ON THE PLANS WITH SHADING ARE TO BE REMOVED AND DISPOSED OF, UNLESS OTHERWISE INDICATED. THIS SHALL INCLUDE ALL ASSOCIATED CONDUIT, WIRING, BOXES, DEVICES, CONTROLS, ETC. UNLESS OTHERWISE NOTED. THE OWNER RESERVES THE RIGHT TO RETAIN ANY EQUIPMENT OR MATERIALS. THE CONTRACTOR WILL STORE ON SITE AND PROTECT SUCH ITEMS IN A MANNER ACCEPTABLE TO THE OWNER AND ENGINEER. ALSO REFER TO THE STRUCTURAL, MECHANICAL, PROCESS AND ELECTRICAL DRAWINGS FOR A COMPLETE REQUIREMENT OF DEMOLITION WORK FOR THIS PROJECT.
9. ALL 120/208V ELECTRICAL EQUIPMENT TO REMAIN WHICH IS FED FROM PANELBOARDS OR EQUIPMENT DESIGNATED AS BEING REMOVED OR RELOCATED, SHALL REMAIN AND BE POWERED FROM NEW OR RELOCATED PANELBOARDS OR EQUIPMENT AS NOTED ON THE MODIFIED DRAWINGS OR AS REQUIRED BY THE INTENDED OVERALL DEMOLITION OF THIS WORK. REMOVE EXISTING CONDUIT AND WIRING FROM THE APPLICABLE EXISTING PANELBOARD OR EQUIPMENT BACK TO THE CIRCUITS NEAREST PULLBOX, CONTROLLING DEVICE OR FIXTURE LOCATED OUTSIDE THE AREA BEING DEMOLISHED AND RE-FEED AS NOTED ON THE MODIFIED DRAWINGS. RE-FEED THE EXISTING EQUIPMENT WITH NEW CONDUIT AND WIRING FOR A COMPLETE INSTALLATION. SPLICING OF WIRING SHALL NOT BE ALLOWED.
10. THE EXISTING PANELBOARD CIRCUIT DESCRIPTIONS SHOWN WERE TAKEN FROM EXISTING PANELBOARD DIRECTORIES OBTAINED IN THE FIELD AND/OR BY EXISTING RECORD DRAWING PANELBOARD SCHEDULES. THE ACCURACY OF THESE DESCRIPTIONS HAS NOT BEEN FIELD VERIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL CIRCUITRY, AS APPLICABLE FOR THIS PROJECT, ASSOCIATED WITH THE PANEL, AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

GENERAL NOTES

1. ALL CONDUIT AND EQUIPMENT SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE CURRENT NATIONAL ELECTRICAL CODE.
2. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY ONLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURES. CONDUITS SHALL BE CONCEALED IN WALLS, AND ABOVE ANY SUSPENDED CEILINGS WHERE APPLICABLE. EXPOSED CEILING CONDUITS SHALL BE PERMITTED WHERE SUSPENDED CEILINGS ARE NOT USED. EXPOSED CONDUITS SHALL BE INSTALLED PARALLEL TO BEAMS AND WALLS.
3. CONDUITS SHALL BE PROPERLY TERMINATED WITH NEAT CONNECTIONS TO ALL ASSOCIATED EQUIPMENT.
4. CONTROL AND INSTRUMENTATION CONDUIT SIZES AND NUMBER OF CONDUCTORS ARE TO BE DETERMINED FROM SCHEMATIC DIAGRAMS, INSTRUMENTATION DIAGRAMS, AND/OR SPECIFICATIONS, IF NOT DIRECTLY SHOWN ON POWER PLANS. THE WIRING DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUIT REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL AND INSTRUMENTATION EQUIPMENT. MODIFICATIONS REVIEWED BY THE ENGINEER WITH NO EXCEPTIONS TAKEN, MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS. EACH CONTROL AND INSTRUMENTATION CONDUIT SHALL ALSO CONTAIN 10 PERCENT SPARE CONDUCTORS, WITH A MINIMUM OF TWO SPARES, UP TO THE LIMIT OF CONDUIT FILL AS SPECIFIED BY THE NATIONAL ELECTRICAL CODE. INSTRUMENTATION SHIELDED CABLES SHALL BE INSTALLED IN RGS CONDUIT. SEPARATE FROM OTHER POWER WIRING.
5. EACH CONDUIT TO CARRY GROUND WIRE(S) ACCORDING TO SPECIFICATION SECTION 16450, IN ADDITION TO NUMBER OF CONDUCTORS SHOWN ON DRAWINGS OR PER NOTE 4 ABOVE. ALL GROUNDING MUST CONFORM TO ARTICLE 250 OF CURRENT NATIONAL ELECTRICAL CODE.
6. MINIMUM CONDUIT SIZE SHALL BE 3/4" TRADE SIZE, UNLESS OTHERWISE NOTED ON THE ELECTRICAL DRAWINGS. GENERAL LIGHTING, RECEPTACLE AND HVAC POWER CIRCUITS MAY BE 1/2" TRADE SIZE CONDUIT INSTALLED PER NEC. MINIMUM POWER WIRING SHALL BE 2C#12 AWG WITH GROUND AND 2C#14 AWG FOR CONTROL. MINIMUM INSTRUMENTATION CABLE SHALL BE 2/C#16 AWG TWS AND 3C#16 AWG TWS FOR SPEED POTENTIOMETERS AND RTD'S. PROVIDE CONDUIT AND WIRING AS INDICATED.
7. ALL PANELBOARDS SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE TOP CIRCUIT BREAKER OPERATING HANDLE TO FINISHED FLOOR SHALL NOT EXCEED 6'-6".
8. ALL SURFACE MOUNTED PANELS AND PANELBOARDS ON THE INSIDE OF EXTERIOR WALLS ABOVE GRADE, OR IN OTHER LOCATIONS CONSIDERED AS DAMP, SHALL BE MOUNTED TO MAINTAIN A 1/4" AIR SPACE BETWEEN THE ENCLOSURE AND THE WALL.
9. ELECTRICAL EQUIPMENT LOCATIONS ARE APPROXIMATE ONLY. COORDINATE LOCATIONS WITH PROCESS PIPING, STRUCTURAL, AND MECHANICAL DRAWINGS. CONTRACTOR SHALL COORDINATE MANUFACTURERS EQUIPMENT REQUIREMENTS WITH SPACE AVAILABLE. FINAL CONTROL PANEL LOCATIONS SHALL BE FIELD COORDINATED.
10. ALL FIELD CONTROL CONDUCTORS WILL TERMINATE AT INDIVIDUAL TERMINAL BLOCKS WITHIN THE CONTROL ENCLOSURE. SERIES AND PARALLEL CONNECTION OF FIELD CONTROL CONDUCTORS WILL BE MADE ONLY AT CONTROL PANEL OR MOTOR CONTROL CENTER TERMINAL BLOCKS.
11. GROUND ALL CONDUCTOR SHIELDS AT PANEL ONLY - DO NOT GROUND SHIELDS AT BOTH ENDS.
12. AT THE FOLLOWING LOCATIONS, UNLESS OTHERWISE NOTED, PULL, JUNCTION, TERMINAL, SWITCH, AND OUTLET BOXES SHALL BE CAST IRON WHERE STEEL CONDUIT IS TERMINATED; OR SHALL BE CAST ALUMINUM WHERE ALUMINUM CONDUIT IS TERMINATED:

    A - AT LOCATIONS WHERE VAPORTIGHT LIGHTING FIXTURES AND/OR WATERTIGHT RECEPTACLES ARE INDICATED.
    B - AT LOCATIONS ON OR IN ALL OUTSIDE WALLS.
    C - OUTDOORS
13. NAMEPLATES SHALL CONFORM STRICTLY TO INSTRUCTIONS IN THE ELECTRICAL SPECIFICATIONS AND ON THE DRAWINGS. THE FOLLOWING SHALL HAVE NAMEPLATES:

    A - ALL MAIN BREAKERS AND TIE BREAKERS.
    B - ALL COMPARTMENTS OF MOTOR CONTROL CENTERS EXCLUDING UNUSED COMPARTMENTS.
    C - ALL LOCAL CONTROL STATIONS AT OR NEAR EQUIPMENT.
    D - ALL PANELBOARDS.
    E - GANGED LIGHT SWITCHES.
14. PIPE SLEEVES FOR CONDUITS PASSING FROM NON-HAZARDOUS AREAS TO HAZARDOUS AREAS SHALL HAVE CAULKING APPLIED TO MAKE THE INSTALLATION GASTIGHT.
15. COORDINATE ELECTRICAL DEVICES WITH LAB EQUIPMENT AND FURNITURE ARRANGEMENT, WHERE APPLICABLE.
16. CONTRACTOR SHALL PROVIDE ALL DISCONNECTS AND SERVICE RECEPTACLES FOR HVAC AS REQUIRED BY NEC.
17. CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRING, EQUIPMENT, AND CONTROL DEVICES AS INDICATED BY SCHEMATICS, SINGLE LINE DIAGRAMS, SCHEDULES, PLANS, SPECIFICATIONS, AND VENDOR DOCUMENTATION TO PROVIDE A COMPLETE WORKING SYSTEM. SINCE NOT ALL HOME RUNS ARE SHOWN ON PLANS, THE CONTRACTOR SHALL REFERENCE ALL SINGLE LINE AND SCHEMATIC DIAGRAMS, SCHEDULES, AND VENDOR DOCUMENTATION TO DETERMINE CONDUIT AND WIRING REQUIREMENTS.
18. PROVIDE CONDUIT EXPANSION FITTINGS FOR ALL EXTERIOR CONDUIT SYSTEMS.
19. EXACT NUMBER, LOCATION, HORSEPOWER, VOLTAGE, AND PHASE OF ALL MOTORS AND DEVICES ASSOCIATED WITH THE CHEMICAL FEED SYSTEM, GRIT, SCREENING AND PLANT WATER, AND OTHER EQUIPMENT SYSTEMS AS APPLICABLE, PROVIDED UNDER THIS CONTRACT SHALL BE COORDINATED WITH THE ACTUAL EQUIPMENT SUPPLIER. CONDUIT AND WIRING TO BE PROVIDED SHALL BE ADJUSTED ACCORDINGLY AT NO ADDITIONAL COST TO THE OWNER.
20. PROVIDE CONCRETE HOUSEKEEPING PADS (4" HIGH) UNDER FLOOR MOUNTED ELECTRICAL AND INSTRUMENTATION EQUIPMENT. PROVIDE SUBMITTAL SKETCH FOR ENGINEER REVIEW.
21. COORDINATE ELECTRICAL EMBEDMENTS WITH STRUCTURAL.
22. CONTRACTOR SHALL PROVIDE A COMPLETE WORKING OPERATING SYSTEM IN ACCORDANCE WITH ALL DRAWINGS, SPECIFICATIONS, CODES AND STANDARDS.
23. HANDHOLES SHALL BE PREMANUFACTURED ASSEMBLIES SEPARATED FOR 480V AND 120V POWER. POWER CONDUIT UNDERGROUND SHALL BE SCHEDULE 80 PVC WITH RGS FITTINGS ABOVE GROUND. RGS FITTINGS SHALL EXTEND 2'-6" BELOW GROUND. INSTRUMENTATION AND CONTROL HANDHOLES SHALL BE SEGREGATED FOR INSTRUMENTATION AND 120 VOLT CONTROL.
24. THE ELECTRICAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL OF THE ELECTRICAL DRAWINGS AND CONDUIT AND WIRE SCHEDULES RELATIVE TO THE CONDUIT AND WIRE TO BE PROVIDED ON THIS PROJECT. THE INTENT OF THE CONTRACT DOCUMENTS IS TO PROVIDE DETAILED INFORMATION OF SPECIFIC INDIVIDUAL RUNS OF CONDUIT AND WIRE TO SPECIFIC EQUIPMENT. THE ELECTRICAL SUBCONTRACTOR IS DIRECTED TO COMBINE CONDUIT AND WIRE RUNS AS MUCH AS POSSIBLE, AS DEFINED IN SPECIFICATIONS. THE LIMITING FACTOR FOR COMBINING CONDUIT AND WIRE SHALL BE BASED ON THE DERATING FACTORS ALLOWED PER THE NATIONAL ELECTRICAL CODE (NEC) BASED ON EQUIPMENT RATINGS AND REQUIRED AMPACITY RATINGS. ALL MEDIUM VOLTAGE FEEDER CONDUIT AND WIRE SHALL NOT BE ALLOWED TO BE COMBINED AND SHALL BE INSTALLED AS INDICATED IN THE CONTRACT DOCUMENTS. ELECTRICAL SUBCONTRACTOR IS DIRECTED TO USE THE MOST COST-EFFECTIVE CONDUIT AND WIRE RUNS CONSISTENT WITH THESE REQUIREMENTS.
25. 120V CIRCUITS EXCEEDING 100 FEET IN LENGTH SHALL BE NO 10 AWG WIRING, MINIMUM.
26. POWER CONDUITS FOR THREE PHASE AND SINGLE PHASE CIRCUITS (DESIGNATED WITH "P" NUMBERS) ARE SHOWN ON POWER PLANS, WITH CONDUIT SIZES AND WIRING INFORMATION INDICATED IN THE CONDUIT AND WIRE SCHEDULES.
27. CONTROL AND INSTRUMENTATION SIGNAL CONDUITS (DESIGNATED WITH "C" AND "S" NUMBERS OR, ALTERNATIVELY, INDICATED BY WAY OF A LEGEND) ARE SHOWN ON CONTROL AND INSTRUMENTATION WIRING DIAGRAMS, WITH CONDUIT SIZES AND WIRING INFORMATION INDICATED EITHER IN THE LEGEND OR IN CONDUIT AND WIRE SCHEDULES. THE CONTRACTOR SHALL NOTE THAT THE MAJORITY OF CONTROL AND INSTRUMENTATION SIGNAL CONDUITS AND WIRING REQUIRED FOR THIS CONTRACT IS INDICATED IN THE AFOREMENTIONED LEGEND AND DOES NOT APPEAR IN THE CONDUIT AND WIRE SCHEDULES. FOR INSTRUMENTS REQUIRING 120V POWER SUPPLIES, THIS INFORMATION IS ALSO SHOWN ON THE CONTROL AND INSTRUMENTATION WIRING DIAGRAMS.
28. CONTRACTOR SHALL LABEL EACH RESPECTIVE DISTRIBUTION PANEL, SWITCHBOARD OR MCC WITH THE FEEDER POWER CIRCUIT NAME AND LOCATION PER NEC REQUIREMENTS.
29. ALL PRIMARY FEEDER DISCONNECTS SERVING REMOTELY LOCATED TRANSFORMERS SHALL BE LOCKABLE. CONTRACTOR SHALL LABEL PRIMARY DISCONNECT LOCATION AT THE TRANSFORMER SERVED PER NEC REQUIREMENTS.
30. FOR ALL OUTDOOR ELECTRICAL EQUIPMENT AND INSTRUMENTATION, CONTRACTOR SHALL USE CONDUIT INSTALLATION MEANS AND METHODS NECESSARY TO MITIGATE MOISTURE AND CONDENSATION PER NEC AND INSTALLATION METHODS LISTED IN SPECIFICATIONS. MITIGATION METHODS INCLUDE DRIP LOOPS, AVOIDING TOP ENTRY, USE OF BREATHERS, DRAINS, AND DUCT SEALANT AS NECESSARY.
31. DO NOT SCALE DISTANCES OR DIMENSIONS FROM THE DRAWINGS. WRITTEN DIMENSIONS SHALL PREVAIL. REPORT ANY DISCREPANCIES TO THE ENGINEER.

REV.	DATE	DESCRIPTION	BY
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Infinity Engineering Consultants, LLC — IEC Project No 23-023
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STATE OF LOUISIANA
JOHN C. LAWRENCE
REG. NO. 27944
REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
4-29-2025

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601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163 | DESIGNED BY: M. TORRES
SUBMISSION: CONTRACT DRAWINGS
CAD COORD: A.COUTURE

SEWERAGE AND WATER BOARD OF NEW ORLEANS
CONTRACT No. 30109
EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

ELECTRICAL NOTES AND ABBREVIATIONS

DR. G. LALA
TRC.
CK. J. LAWRENCE
AP. J. LAWRENCE
SCALE: AS NOTED
DATE: APRIL 2025

E-00-002
DWG. No. 12221-W-33
SET NO.
SHEET NO. 72 of 92

LAST SAVED BY: GLALA 4/29/2025 7:51 AM

P:\PROJECTS\23-023 WRIGHT-PIERCE - SWB EBWWTP ELECTRICAL MODIFICATIONS\DRAWINGS\PHASE 1A\WIRES\21163-CM-SRVMOD.DWG | KEY ELECTRICAL PLAN | 1:10.1236427 | --- | 4/29/2025 7:55:44 AM | GLALA

NOTES:

1. FOR ELECTRICAL LEGEND, ABBREVIATIONS, AND NOTES, REFER TO DRAWINGS E-00-001 AND E-00-002.
2. FOR INFORMATION REGARDING CONDUIT AND WIRING REQUIREMENTS, REFER TO GENERAL NOTES 26 AND 27, ON DRAWING E-00-002.

SLUDGE DRYING BED

MATERIAL STORAGE

OXYGEN REACTORS

GREASE CONCENTRATION STATION

EFFLUENT PUMP STATION AND ELECTRICAL BUILDING

SEDIMENTATION BASIN TANK #1 THICKENED SLUDGE STORAGE TANK

SEDIMENTATION BASIN TANK #2 SCUM STORAGE TANK

SOLIDS HANDLING BUILDING

ELECT SUB

BUILDING

THICKENED/WAS STORAGE TANK

LIQUID SLUDGE/SEPTAGE RECEIVING FACILITY

SECONDARY CLARIFIER NO 2

SECONDARY CLARIFIER NO 4

SECONDARY CLARIFIER NO 1

SECONDARY CLARIFIER NO 3

POLYMER SHELTER

EFFLUENT CHANNEL

BID ALTERNATE "B"

BID ALTERNATE "C"

BID ALTERNATE "A"

E-50-101

SCL-6 SECONDARY CLARIFIER NO 6

E-50-102

SCL-8 SECONDARY CLARIFIER NO 8

E-52-101

E-52-102

CHEMICAL STORAGE

SCL-5 SECONDARY CLARIFIER NO 5

E-50-103

SCL-7 SECONDARY CLARIFIER NO 7

E-50-104

KEY ELECTRICAL PLAN

SCALE: 1" = 40'

GENERAL NOTES:

1. THIS SHEET CONTAINS BID ALTERNATE "A", "B", AND "C" ITEMS AS DESCRIBED IN THE SPECIFICATION SECTION 01100-ALTERNATES.

FULL SHEET BID ALTERNATES

REV.	DATE	DESCRIPTION	BY
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

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PROJECT NO: 21163	DESIGNED BY: M. TORRES
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

KEY ELECTRICAL PLAN

DR. G. LALA	E-01-001
TRC.	
CK. J. LAWRENCE	
AP. J. LAWRENCE	DWG. No. 12221-W-33
SCALE: AS NOTED	
DATE: APRIL 2025	SET NO. SHEET NO. 73 of 92

LAST SAVED BY: GLALA 4/29/2025 7:52 AM

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UTILITY ENTERGY WEST FEEDER NO. 612

ENTERGY METERING BAY (M) — UTILITY PRIMARY METERING

KA U-11

SWITCHGEAR NO. 1 BUS A SOUTH

13.8KV, 1200A, 3Ø, 4W, 60HZ - BUS A

U-18 | U-12 | SPARE | U-13 | U-14 | U-17 | U-15 | U-16 | U-24 | U-27

STANDGY GENERATOR 4MW, 0.8PFM 13.8KV

U-31

KA/KB | KB/KC

SWITCHGEAR NO. 2 BUS B NORTH

13.8KV, 1200A, 3Ø, 4W, 60HZ - BUS B

SPARE | U-25 | U-26 | U-23 | U-22

KC U-21

UTILITY ENTERGY EAST FEEDER NO. 2344

ENTERGY METERING BAY (M) — UTILITY PRIMARY METERING

T13 13.8KV 1000 KVA 480 V

T12 13.8KV 1000 KVA 480 V

T11 13.8KV 1500 KVA 480 V, 8%

T10 13.8KV 1500 KVA 480 V, 8%

T9 13.8KV 2000 KVA 2.4 KV

T8 13.8KV 2000 KVA 2.4 KV

NO LOAD

T3 13.8KV 1000 KVA 2.4 KV

T15 13.8KV 1500 KVA 2.4 KV

T4 13.8KV 1500 KVA 2.4 KV

SWITCHGEAR SWGR-H

1600AF | 1600AF

SWITCHGEAR SWGR-I

1600AF | 1600AF

3000AF | 3000AF | 3000AF

480V 2600A MCC-J | 480V 2600A MCC-J

1250 COMPRESSOR VSA

1200A

VFD-1 | VFD-3 | VFD-5 | VFD-2 | VFD-4

450 EFFLUENT PUMP NO. 1 | 450 EFFLUENT PUMP NO. 3 | 450 EFFLUENT PUMP NO. 5 | 450 EFFLUENT PUMP NO. 2 | 450 EFFLUENT PUMP NO. 4 | 300 INCINERATOR BLOWER

480V 1600A MCC-H — NORTH RAS PUMP STATION

480V 1600A MCC-I — SOUTH RAS PUMP STATION

480V MCC-L — TRAIN NO. 1

480V MCC-L — TRAIN NO. 1

T2 13.8KV 1000/480 V

T1 13.8KV 1000/480 V

T7 13.8KV 1000/480 V

T6 13.8KV 1000/480 V

480V SWITCHGEAR

2000AF | 2000AF

SG480-1, 480V, 2000A, 3Ø, 4W, 60HZ, 65,000 AIC | 2000AF | SG480-1, 480V, 2000A, 3Ø, 4W, 60HZ, 65,000 AIC

PER SPD MFR | 800AF | 800AF | 800AF | 800AF | 800AF | PER SPD MFR | 800AF | 800AF

SPD | FUTURE SLUDGE DRYER | SPARE | FUTURE SLUDGE DRYER | SPARE | SPD

480V SWITCHGEAR

1600AF | 1600AF

480V | 1200A | 480V

600AF | SPACE | SPACE | 600AF | SPACE | 600AF | 600AF | 1600AF | 800AF | 600AF

MCC-B | MCC-C | EMPLOYEE AND SHOP BUILDING | MCC-A

MCC-D | MCC-D

125 PROCESS AIR BLOWER NO. 1 | 150 WELL PUMP NO. 1 | 150 PROCESS AIR BLOWER NO. 2

E N ATS 3P, 480V, 400A — GEN MAIN BREAKER — 80KW EMERGENCY GENERATOR — ADMIN BUILDING

13.8KV 13800/ 480 V/277

ATS 3P, 480V, 400A — E N — MAIN BREAKER — FUTURE 300 KW EMERGENCY GENERATOR BY OTHERS

MCC1 - GENERATOR BUILDING, 400A, 3Ø, 3W, 480V, 65,000 AIC

50A | 100A | 30A SIZE 1 | 15A SIZE 1 | 30A SIZE 1 | 30A SIZE 4 | 150A | 50A

60A | 100A | 30A | 30A | 30A | 30A | LL | 75KV 480 V/277/120V

AIR COMPRESSOR CONTROL PANEL | CRANE 30 TON | IMMERSION HEATER 15KW | ALTERNATE SPACE HEATER 3KW | EXHAUST FAN NO. 1 | ACR RADIATOR FAN | LTF | LCR | BATTERY CHARGER

10 AIR COMPRESSOR | 7.5 | 75

MCC-FBI | MCC-STORM

480V 800A 800A | 480V 800A | 300A 300A — MCC-GA

480V 800A 800A — MCC-GB

480V 800A 800A — MCC-FA

480V 800A 800A — MCC-FB

SINGLE LINE DIAGRAM SWITCHGEAR DEMOLITION PLAN

NTS

REV.	DATE	DESCRIPTION	BY
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

Infinity Engineering Consultants, LLC — IEC Project No 23-023
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STATE OF LOUISIANA — JOHN C. LAWRENCE, REG. NO. 27944 — REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING — 4-29-2025

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SINGLE LINE DIAGRAM SWITCHGEAR - DEMOLITION PLAN

DR. G. LALA	E-09-001
TRC.	
CK. J. LAWRENCE	
AP. J. LAWRENCE	DWG. No. 12221-W-33
PROJECT NO: 21163 — DESIGNED BY: M. TORRES	
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025 — SET NO. — SHEET NO. 74 of 92

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P:\PROJECTS\23-023 WRIGHT-PIERCE - SWB EBMWTP ELECTRICAL MODIFICATIONS\DRAWINGS\PHASE 1A\PRODUCTION DRAWINGS\ELECTRICAL\21163-ES-SINGLELINES.DWG | SINGLE LINE DIAGRAM SWITCHGEAR MODIFICATION PLAN | 1:10.12364677 | — | 4/29/2025 9:54:32 AM | GLALA

UTILITY ENTERGY WEST FEEDER NO. 612

ENTERGY METERING BAY — UTILITY PRIMARY METERING

KA U-11

SWITCHGEAR NO. 1 BUS A SOUTH

13.8KV, 1200A, 3Ø, 4W, 60HZ - BUS A

U-18 — U-12 — SPARE — U-13

STANDGY GENERATOR 4MW, 0.8PFM 13.8KV

U-31

KA/KB — KB/KC

U-14 — U-17 — U-15 — U-16 — U-24 — U-27

SWITCHGEAR NO. 2 BUS B NORTH

13.8KV, 1200A, 3Ø, 4W, 60HZ - BUS B

SPARE — U-25 — U-26 — U-23 — U-22

KC U-21

ENTERGY METERING BAY — UTILITY PRIMARY METERING

UTILITY ENTERGY EAST FEEDER NO. 2344

T12 13.8KV 1000 KVA 480 V

T11 13.8KV 1500 KVA 480 V, 8%

T10 13.8KV 1500 KVA 480 V, 8%

T9 13.8KV 2000 KVA 2.4 KV

T8 13.8KV 2000 KVA 2.4 KV

NO LOAD

T3 13.8KV 1000 KVA 480 V

T15 13.8KV 1500 KVA 2.4 KV

T4 13.8KV 1500 KVA 2.4 KV

SWITCHGEAR SWGR-H

1600AF — 1600AF — 1600AF

SWITCHGEAR SWGR-I

1600AF — 1600AF

3000AF — 3000AF — 3000AF

1200A

480V 2600A — MCC-J

480V 2600A — MCC-J

1250 — COMPRESSOR VSA

VFD-1 — VFD-3 — VFD-5 — VFD-2 — VFD-4

450 — 450 — 450 — 450 — 450 — 300

EFFLUENT PUMP NO. 1 — EFFLUENT PUMP NO. 3 — EFFLUENT PUMP NO. 5 — EFFLUENT PUMP NO. 2 — EFFLUENT PUMP NO. 4 — INCINERATOR BLOWER

T1 13.8KV 1000/480 V

T2 13.8KV 1000/480 V

SWITCHBOARD SWBD-H

480V 1600A — 600AF

480V 600A — MCC-H

NORTH RAS PUMP STATION

480V 1600A — MCC-I — SOUTH RAS PUMP STATION

480V — MCC-L — TRAIN NO. 1

480V — MCC-L — TRAIN NO. 1

T7 13.8KV 1000/480 V

T6 13.8KV 1000/480 V

480V SWITCHGEAR

2000AF — 2000AF

SG480-1, 480V, 2000A, 3Ø, 4W, 60HZ, 65,000 AIC

SG480-1, 480V, 2000A, 3Ø, 4W, 60HZ, 65,000 AIC

PER SPD MFR — 800AF — 800AF — 800AF — 800AF — 2000AF — 800AF — 800AF — PER SPD MFR — 800AF — 800AF

SPD — FUTURE SLUDGE DRYER — FUTURE SLUDGE DRYER — SPD

480V SWITCHGEAR

1600AF — 1600AF

480V — 600AF — SPACE — SPACE — 600AF — SPACE — 1200A — 600AF — 480V — 600AF — 1600AF — 800AF — 600AF

MCC-B — MCC-C — MCC-D — EMPLOYEE AND SHOP BUILDING — MCC-D — MCC-A

125 — PROCESS AIR BLOWER NO. 1 — 150 — WELL PUMP NO. 1 — 150 — PROCESS AIR BLOWER NO. 2

ADMIN BUILDING

ATS 3P, 480V, 400A — GEN MAIN BREAKER — 80KW EMERGENCY GENERATOR

13.8KV 13800/ 480 V/277

ATS 3P, 480V, 400A — MAIN BREAKER — FUTURE 300 KW EMERGENCY GENERATOR BY OTHERS

MCC1 - GENERATOR BUILDING, 400A, 3Ø, 3W, 480V, 65,000 AIC

50A — 100A — 30A SIZE 1 — 15A SIZE 1 — 30A SIZE 1 — 30A SIZE 4 — LL — 150A — 50A

60A — 100A — 30A — 30A — 30A — 30A — 75KV 480 V/277/120V

AIR COMPRESSOR CONTROL PANEL

10 — AIR COMPRESSOR

CRANE 30 TON

IMMERSION HEATER 15KW

ALTERNATE SPACE HEATER 3KW

7.5 — EXHAUST FAN NO. 1

75 — ACR RADIATOR FAN

LTF — LCR

BATTERY CHARGER

MCC-FBI — MCC-STORM

480V — 800A — 800A — 480V — 800A — 300A — 300A — MCC-GA

800A — 800A — 480V — 800A — MCC-GB

800A — 800A — 480V — 800A — MCC-FA

800A — 800A — 480V — 800A — MCC-FB

REV.	DATE	DESCRIPTION	BY
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SINGLE LINE DIAGRAM SWITCHGEAR MODIFICATION PLAN

NTS

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PROJECT NO: 21163 — DESIGNED BY: M. TORRES

SUBMISSION: CONTRACT DRAWINGS

CAD COORD: A.COUTURE

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE 1A

SECONDARY TREATMENT UPGRADE

SINGLE LINE DIAGRAM SWITCHGEAR MODIFICATION PLAN

DR. G. LALA — TRC. — CK. J. LAWRENCE — AP. J. LAWRENCE

SCALE: AS NOTED — DATE: APRIL 2025

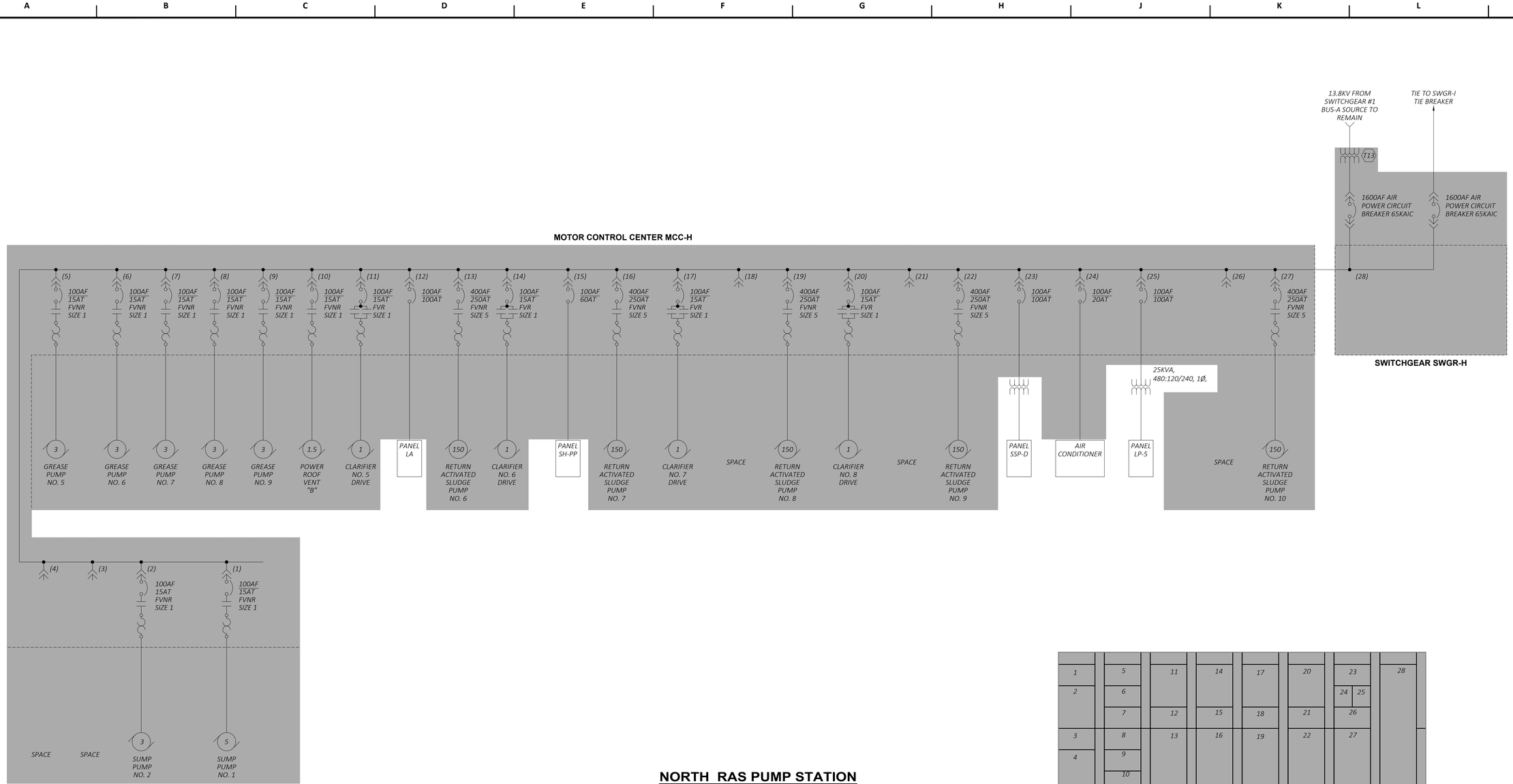
E-09-002

DWG. No. 12221-W-33

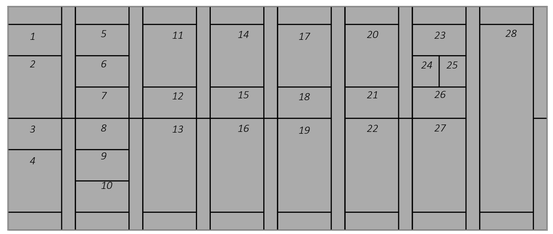
SET NO. — SHEET NO. 75 of 92

LAST SAVED BY: GLALA 4/29/2025 7:52 AM

P:\PROJECTS\23-023 WRIGHT-PIERCE - SWB EBWWTP ELECTRICAL MODIFICATIONS\DRAWINGS\PHASE 1A\PRODUCTION DRAWINGS\ELECTRICAL\21163-ES-SINGLELINES.DWG | SINGLE LINE DIAGRAM MOTOR CONTROL CENTER MCC-H DEMOLITION | 1:10.1236427 | — | 4/29/2025 7:55:50 AM | GLALA



NORTH RAS PUMP STATION
SINGLE LINE DEMOLITION - MCC-H
NTS



NORTH RAS PUMP STATION
MCC-H ELEVATION
NTS

REV.	DATE	DESCRIPTION	BY
△			
△			
△			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

Infinity Engineering Consultants, LLC — IEC Project No 23-023
Civil Structural Mechanical Electrical Marine Transportation
Metairie, LA www.infinityec.com 504-304-0548

STATE OF LOUISIANA — JOHN C. LAWRENCE — REG. NO. 27944 — REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
4-29-2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

SINGLE LINE DIAGRAM
MOTOR CONTROL CENTER MCC-H - DEMOLITION

PROJECT NO: 21163	DESIGNED BY: M. TORRES
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

DR.	G. LALA
TRC.	
CK.	J. LAWRENCE
AP.	J. LAWRENCE
SCALE: AS NOTED	
DATE: APRIL 2025	

E-09-003

DWG. No. 12221-W-33

SET NO. | SHEET NO. 76 of 92

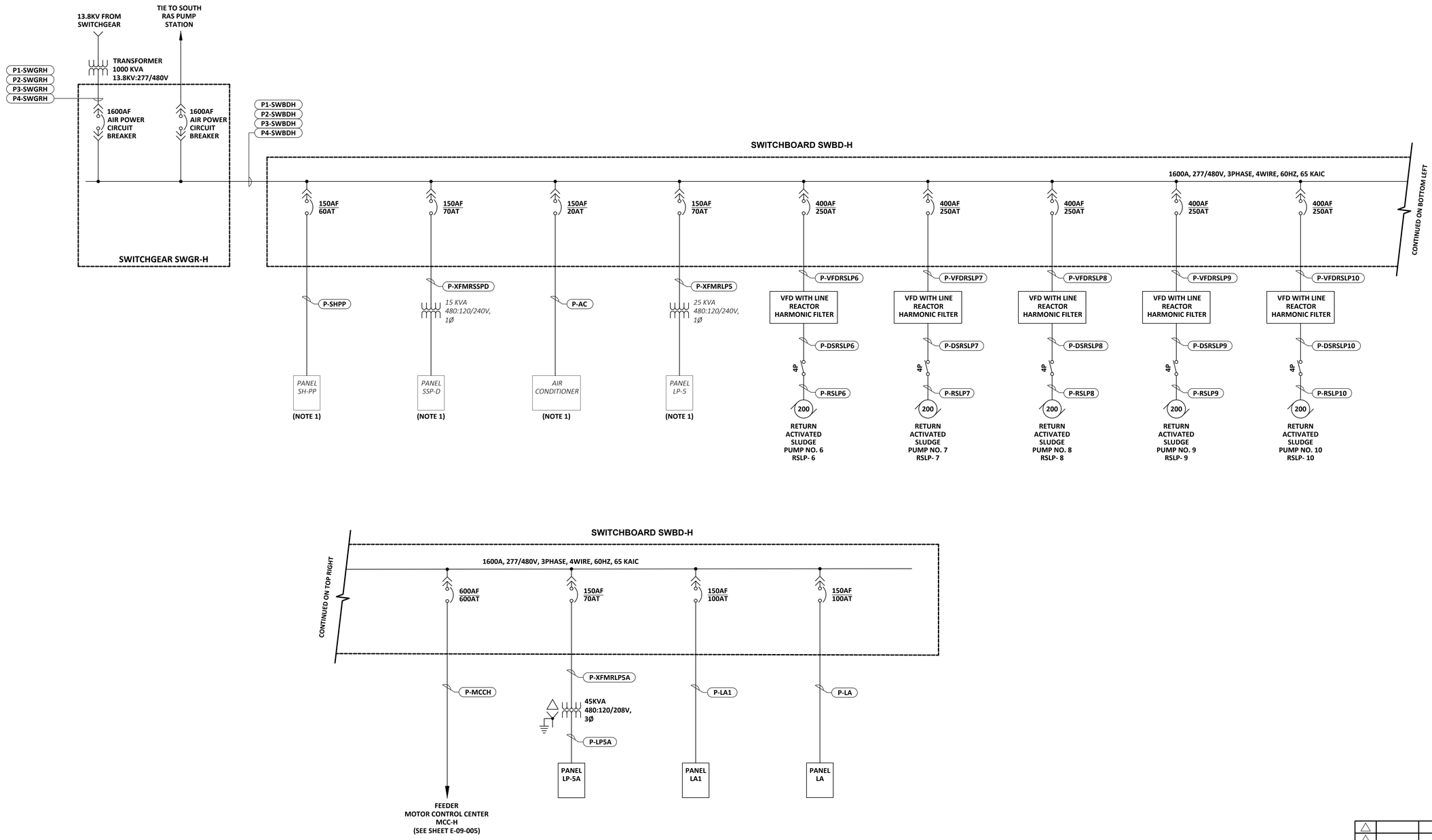
LAST SAVED BY: GLALA 4/29/2025 7:52 AM

SWITCHBOARD SWBD-H | 1:10.12364677 | — | 4/29/2025 7:55:50 AM | GLALA

P:\PROJECTS\23-023 WRIGHT-PIERCE - SWB EBWWTP ELECTRICAL MODIFICATIONS\DRAWINGS\PHASE 1A\PRODUCTION DRAWINGS\ELECTRICAL\21163-ES-SINGLELINES.DWG | SINGLE LINE DIAGRAM SWITCHBOARD SWBD-H

NOTES:

1. EXISTING EQUIPMENT TO BE FED FROM SWITCHBOARD "H".



SINGLE LINE DIAGRAM SWITCHBOARD SWBD-H

NTS

REV.	DATE	DESCRIPTION	BY
△			
△			
△			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

Infinity Engineering Consultants, LLC
IEC Project No 23-023
Civil Structural Mechanical Electrical Marine Transportation
Metairie, LA www.infinityec.com 504-304-0548

STATE OF LOUISIANA
JOHN C. LAWRENCE
REG. NO. 27944
REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
4-29-2025

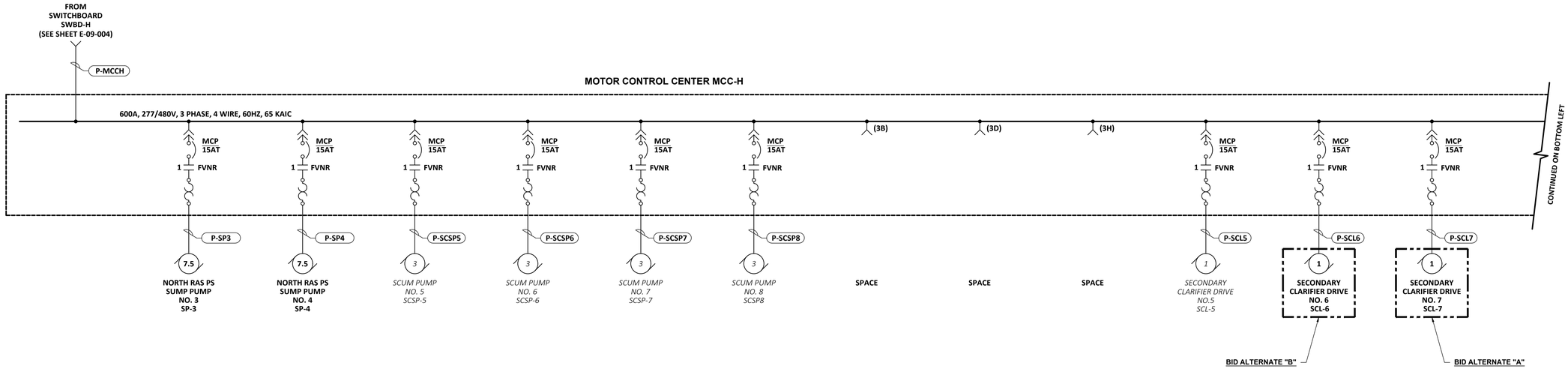
WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

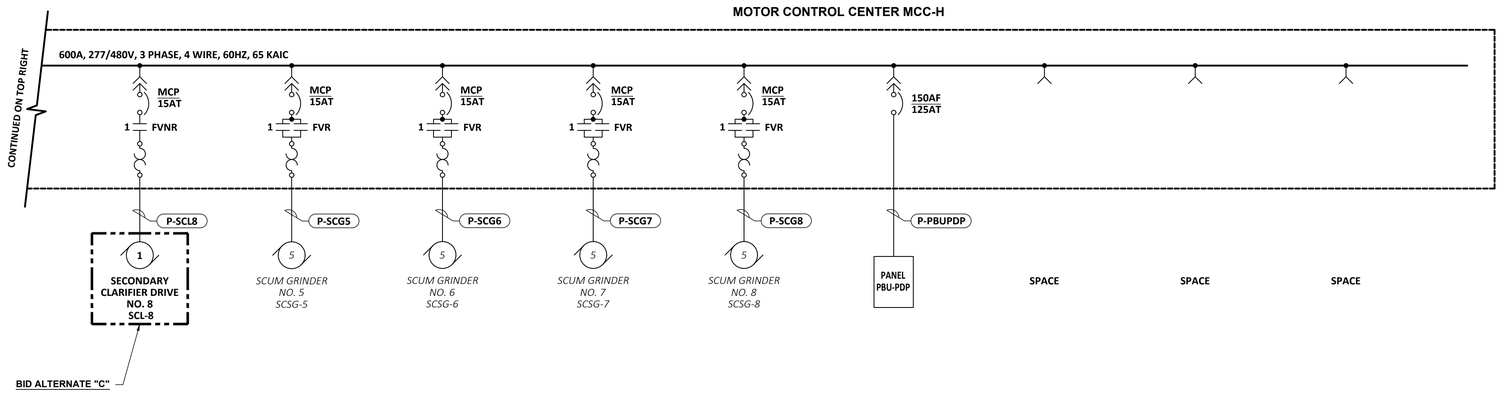
SINGLE LINE DIAGRAM
SWITCHBOARD SWBD-H

DR. G. LALA	E-09-004
TRC.	
CK. J. LAWRENCE	
AP. J. LAWRENCE	DWG. No. 12221-W-33
PROJECT NO: 21163	DESIGNED BY: M. TORRES
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025
SET NO.	SHEET NO. 77 of 92

LAST SAVED BY: GLALA 4/29/2025 7:52 AM

P:\PROJECTS\23-023 WRIGHT-PIERCE - SWB EBMWTP ELECTRICAL MODIFICATIONS\DRAWINGS\PHASE 1A\PRODUCTION DRAWINGS\ELECTRICAL\21163-ES-SINGLELINES.DWG | SINGLE LINE DIAGRAM MOTOR CONTROL CENTER MCC-H | 1:10.12364677 | --- | 4/29/2025 7:55:51 AM | GLALA





SINGLE LINE DIAGRAM
MOTOR CONTROL CENTER MCC-H
NTS

GENERAL NOTES:

1. THIS SHEET CONTAINS BID ALTERNATE "A", "B", AND "C" ITEMS AS DESCRIBED IN THE SPECIFICATION SECTION 01100-ALTERNATES.

SHEET CONTAINS BID ALTERNATES

REV.	DATE	DESCRIPTION	BY
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△			
△			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

Infinity Engineering Consultants, LLC
IEC Project No 23-023
Civil∞Structural∞Mechanical∞Electrical∞Marine∞Transportation
Metairie, LA www.infinityec.com 504-304-0548

STATE OF LOUISIANA
JOHN C. LAWRENCE
REG. NO. 27844
REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
4-29-2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

SINGLE LINE DIAGRAM MOTOR CONTROL CENTER MCC-H

PROJECT NO: 21163	DESIGNED BY: M. TORRES
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025

DR. G. LALA	
TRC.	
CK. J. LAWRENCE	
AP. J. LAWRENCE	

E-09-005

DWG. No. 12221-W-33

SET NO. | SHEET NO. 78 of 92

LAST SAVED BY: GLALA 4/29/2025 7:52 AM

P:\PROJECTS\21-023 WRIGHT-PIERCE - SWB EBWWTP ELECTRICAL MODIFICATIONS\DRAWINGS\PHASE 1A\PRODUCTION DRAWINGS\ELECTRICAL\21163-ES-SINGLELINES.DWG | MCC-H ELEVATION | 1:10.12364677 | ---- | 4/29/2025 7:55:52 AM | GLALA

NOTES:

1. FOR ELECTRICAL GENERAL NOTES, LEGENDS AND SYMBOLS, SEE SHEETS E-09-00X AND E-09-00X.
2. FOR ONE-LINES SEE SHEETS E-09-00X AND E-09-00X.

	1		2		3		4		5	
A	INCOMING SECTION	WIREWAY	SUMP PUMP NO. 3 SP-3	WIREWAY	SPACE	WIREWAY	SECONDARY CLARIFIER DRIVE NO. 8 SCL-8	WIREWAY	SCUM GRINDER NO. 8 SCG-8	WIREWAY
B										
C			SUMP PUMP NO. 4 SP-4		SPACE		SCUM GRINDER NO. 5 SCG-5		PANEL PBU-PDP	
D										
E			SCUM PUMP NO. 5 SCSP-5		SPACE					
F										
G	SPACE	WIREWAY	SCUM PUMP NO. 6 SCSP-6	WIREWAY	SECONDARY CLARIFIER DRIVE NO. 5 SCL-5	WIREWAY	SCUM GRINDER NO. 6 SCG-6	WIREWAY	SPACE	WIREWAY
H										
J			SCUM PUMP NO. 7 SCSP-7		SECONDARY CLARIFIER DRIVE NO. 6 SCL-6		SCUM GRINDER NO. 7 SCG-7		SPACE	
K										
L			SCUM PUMP NO. 8 SCSP-8		SECONDARY CLARIFIER DRIVE NO. 7 SCL-7		SPACE			
M										
	WIREWAY		WIREWAY		WIREWAY		WIREWAY		WIREWAY	

MCC-H ELEVATION

SCALE: 1" = 1'

REV.	DATE	DESCRIPTION	BY
△			
△			
△			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

Infinity Engineering Consultants, LLC — IEC Project No 23-023
Civil ∞ Structural ∞ Mechanical ∞ Electrical ∞ Marine ∞ Transportation
Metairie, LA www.infinityec.com 504-304-0548

STATE OF LOUISIANA
JOHN C. LAWRENCE
REG. NO. 27944
REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
4-29-2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163	DESIGNED BY: M. TORRES
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

MCC-H ELEVATION

DR. G. LALA	
TRC.	
CK. J. LAWRENCE	
AP. J. LAWRENCE	
SCALE: AS NOTED	
DATE: APRIL 2025	

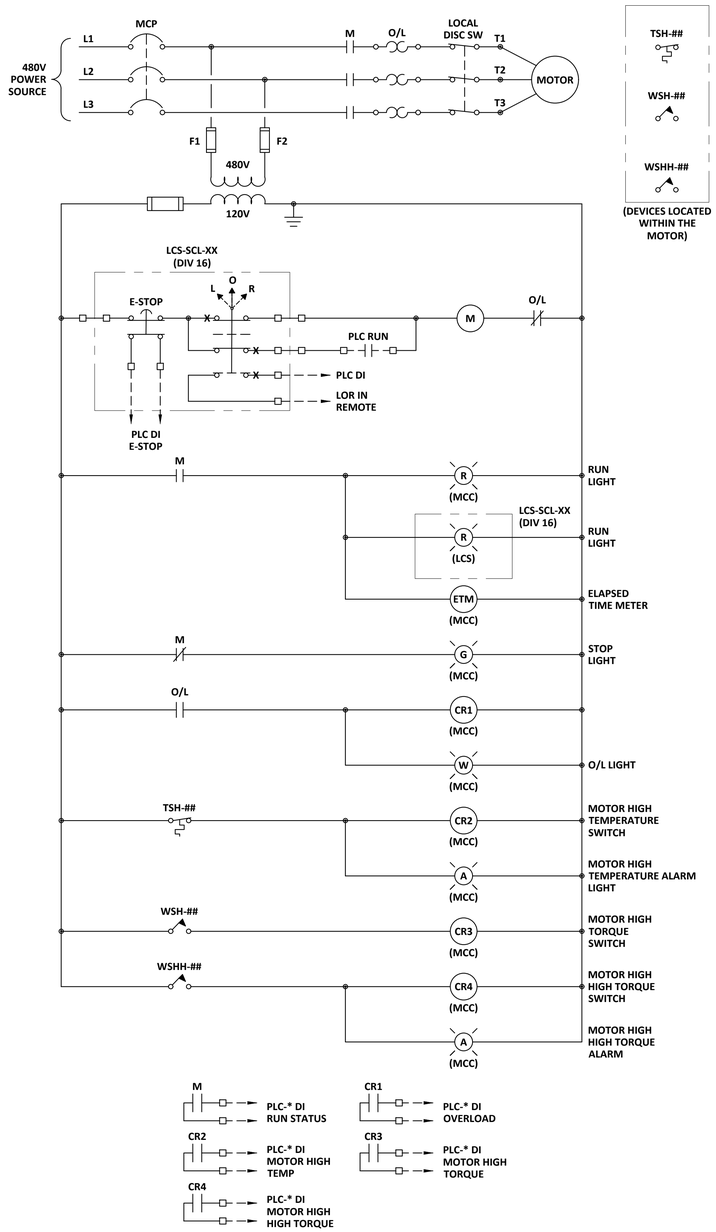
E-09-006

DWG. No. 12221-W-33

SET NO. SHEET NO. 79 of 92

LAST SAVED BY: GLALA 4/24/2025 10:19 AM

P:\PROJECTS\23-023 WRIGHT-PIERCE - SWB EBWWTP ELECTRICAL MODIFICATIONS\DRAWINGS\PHASE 1A\PRODUCTION DRAWINGS\ELECTRICAL\SCHEMATICS.DWG | E-09-012 MOTOR SCHEMATICS (1 OF 2) | 1:1\0.12364677 | — | 4/29/2025 7:55:54 AM | GLALA

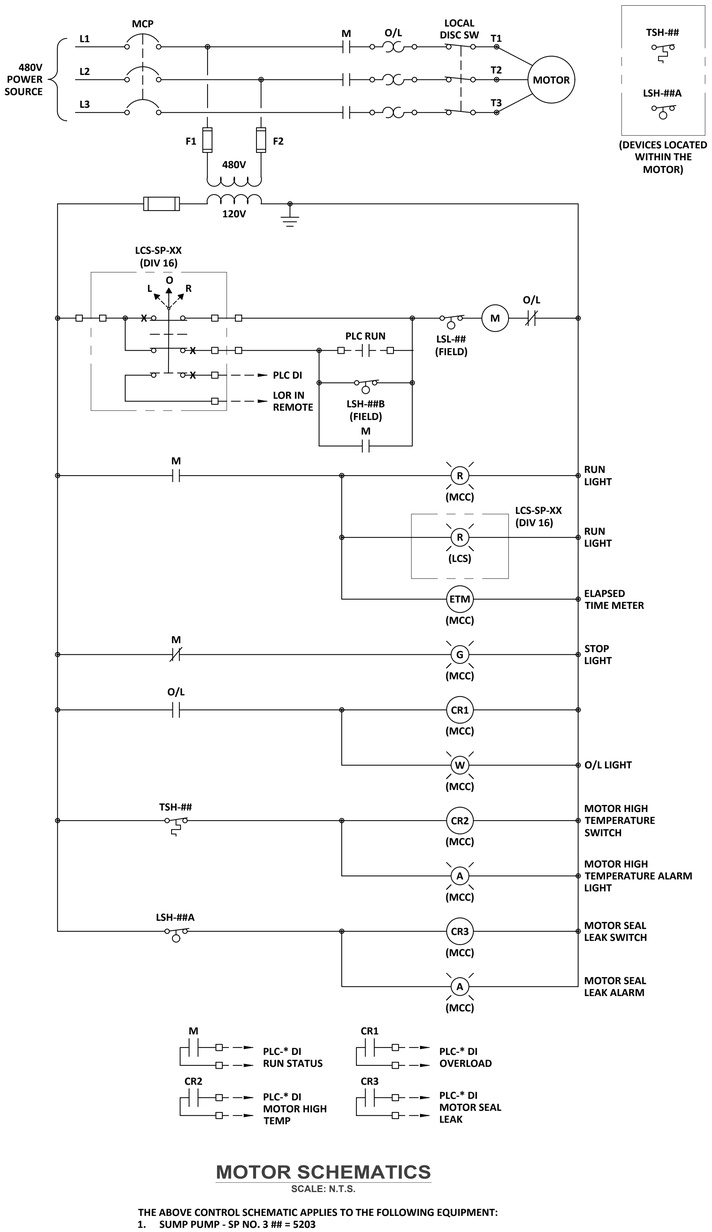


MOTOR SCHEMATICS

SCALE: N.T.S.

THE ABOVE CONTROL SCHEMATIC APPLIES TO THE FOLLOWING EQUIPMENT:

1. SECONDARY CLARIFIER - SCL NO. 5; LOOP(S) 5010 = PLC - * = CP-NR
2. SECONDARY CLARIFIER - SCL NO. 6; LOOP(S) 5011 = PLC - * = CP-NR
3. SECONDARY CLARIFIER - SCL NO. 7; LOOP(S) 5012 = PLC - * = CP-NR
4. SECONDARY CLARIFIER - SCL NO. 8; LOOP(S) 5013 = PLC - * = CP-NR

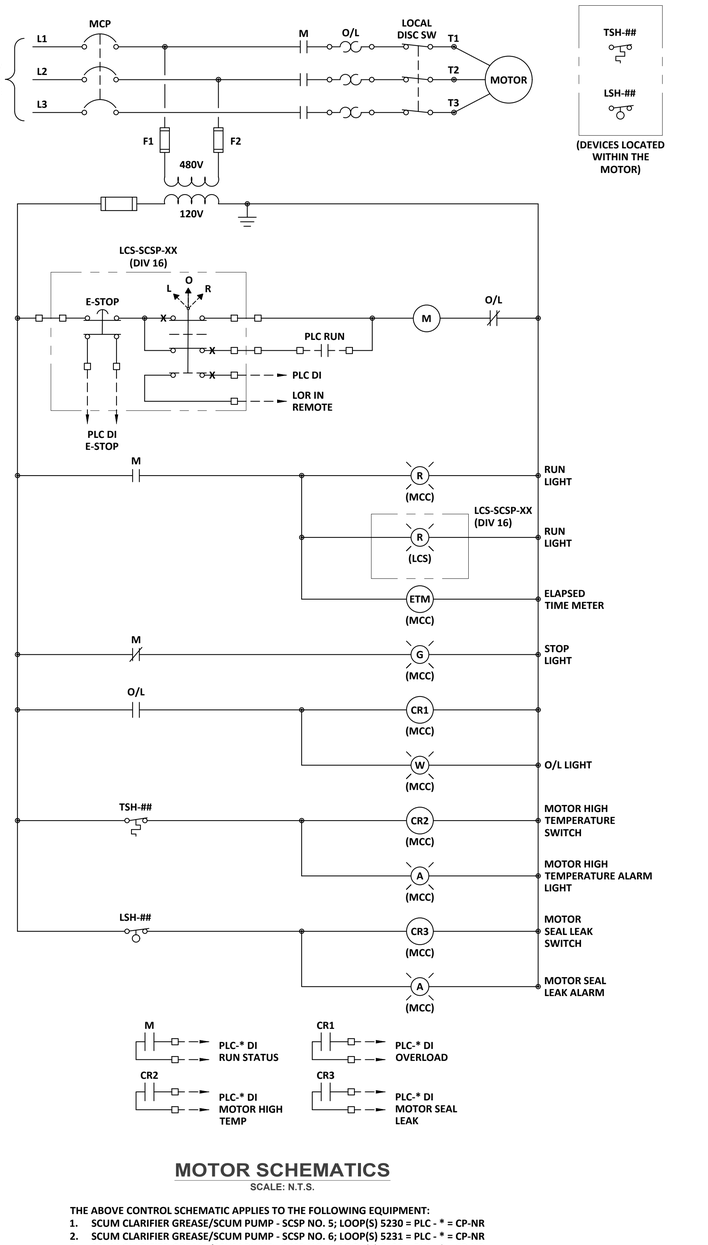


MOTOR SCHEMATICS

SCALE: N.T.S.

THE ABOVE CONTROL SCHEMATIC APPLIES TO THE FOLLOWING EQUIPMENT:

1. SUMP PUMP - SP NO. 3 ## = 5203
2. SUMP PUMP - SP NO. 4 ## = 5204



MOTOR SCHEMATICS

SCALE: N.T.S.

THE ABOVE CONTROL SCHEMATIC APPLIES TO THE FOLLOWING EQUIPMENT:

1. SCUM CLARIFIER GREASE/SCUM PUMP - SCSP NO. 5; LOOP(S) 5230 = PLC - * = CP-NR
2. SCUM CLARIFIER GREASE/SCUM PUMP - SCSP NO. 6; LOOP(S) 5231 = PLC - * = CP-NR
3. SCUM CLARIFIER GREASE/SCUM PUMP - SCSP NO. 7; LOOP(S) 5232 = PLC - * = CP-NR
4. SCUM CLARIFIER GREASE/SCUM PUMP - SCSP NO. 8; LOOP(S) 5233 = PLC - * = CP-NR

REV.	DATE	DESCRIPTION	BY
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△			
△			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

MOTOR SCHEMATICS (1 OF 2)

Infinity Engineering Consultants, LLC — IEC Project No 23-023
Civil ∞ Structural ∞ Mechanical ∞ Electrical ∞ Marine ∞ Transportation
Metairie, LA | www.infinityec.com | 504-304-0548

STATE OF LOUISIANA — JOHN C. LAWRENCE, REG. NO. 27941, REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING — 4-29-2025

WRIGHT-PIERCE

407.906.1776 | www.wright-pierce.com

601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163	DESIGNED BY: M. TORRES
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

DR. G. LALA	
TRC.	
CK. J. LAWRENCE	
AP. J. LAWRENCE	
SCALE: AS NOTED	
DATE: APRIL 2025	

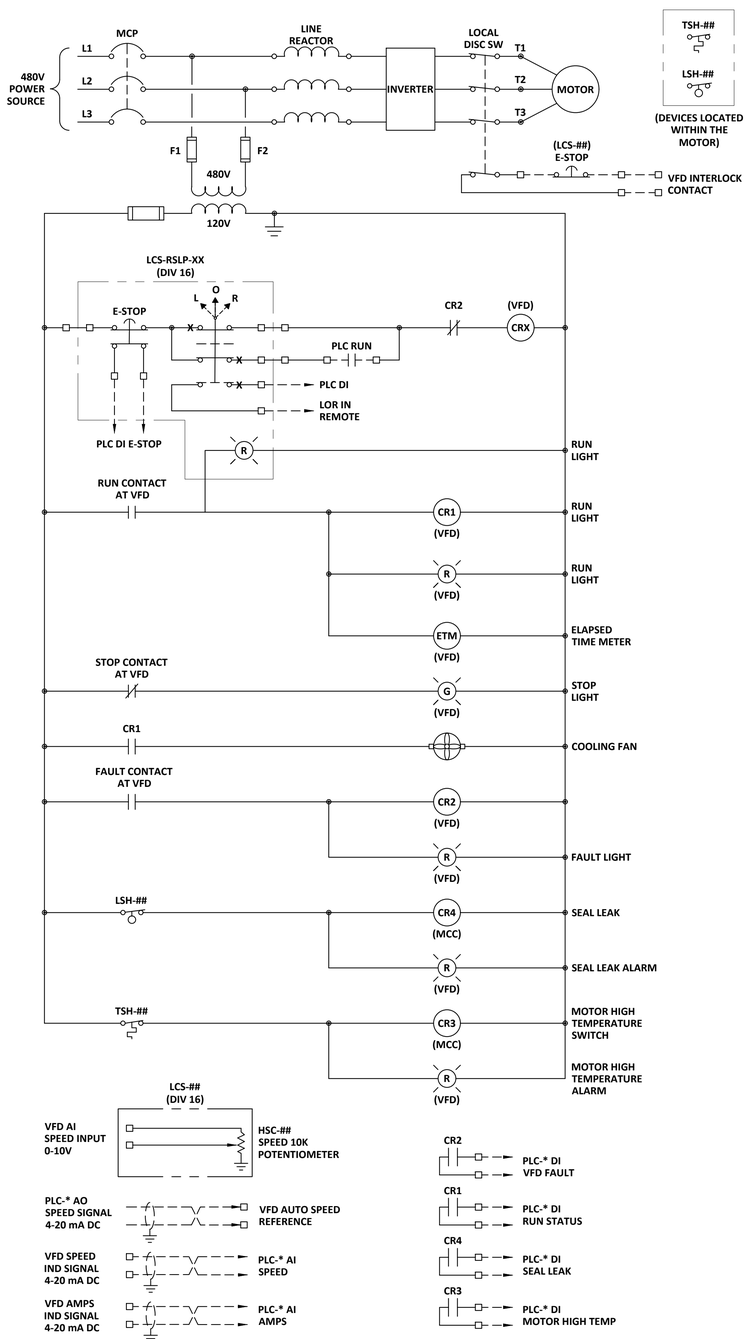
E-09-012

DWG. No. 12221-W-33

SET NO. | SHEET NO. 80 of 92

LAST SAVED BY: GLALA 4/29/2025 7:59 AM

P:\PROJECTS\23-023 WRIGHT-PIERCE - SWB EBWWTP ELECTRICAL MODIFICATIONS\DRAWINGS\PHASE 1A\PRODUCTION DRAWINGS\ELECTRICAL\SCHEMATICS.DWG | E-09-013 MOTOR SCHEMATICS (2 OF 2) | 1:10.12364677 | — | 4/29/2025 7:59:36 AM | GLALA

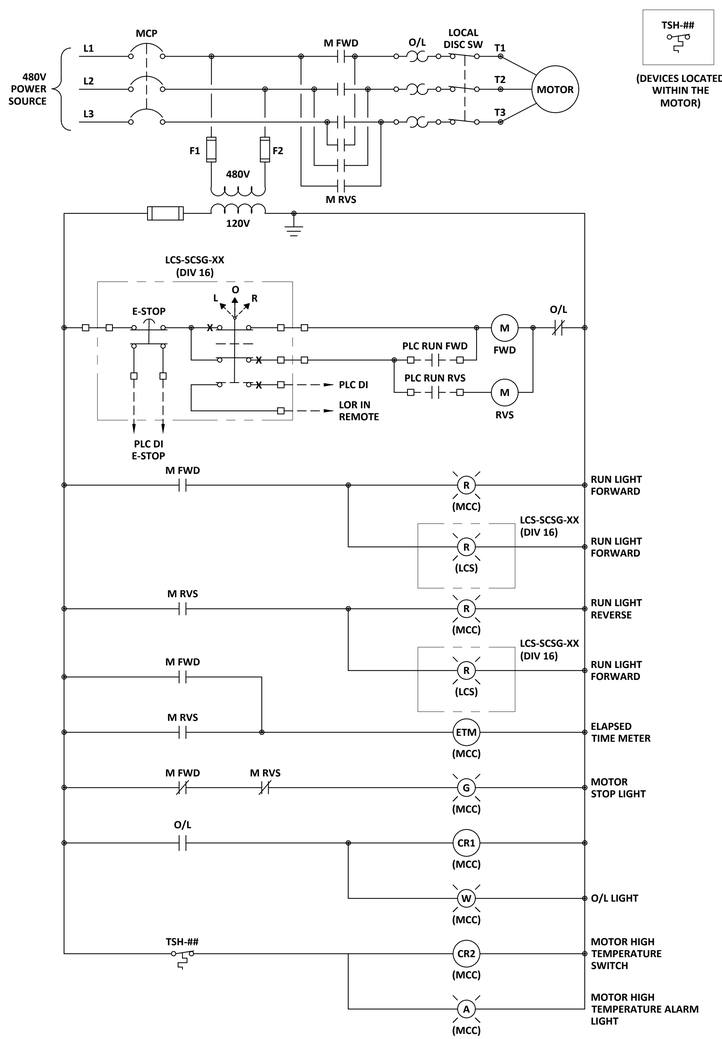


MOTOR SCHEMATICS

SCALE: N.T.S.

THE ABOVE CONTROL SCHEMATIC APPLIES TO THE FOLLOWING EQUIPMENT:

1. RETURN SLUDGE PUMP - RSLP NO. 6; LOOP(S) 5210 = PLC - * = CP-NR
2. RETURN SLUDGE PUMP - RSLP NO. 7; LOOP(S) 5211 = PLC - * = CP-NR
3. RETURN SLUDGE PUMP - RSLP NO. 8; LOOP(S) 5212 = PLC - * = CP-NR
4. RETURN SLUDGE PUMP - RSLP NO. 9; LOOP(S) 5213 = PLC - * CP-NR
5. RETURN SLUDGE PUMP - RSLP NO. 10; LOOP(S) 5214 = PLC - * CP-NR



MOTOR SCHEMATICS

SCALE: N.T.S.

THE ABOVE CONTROL SCHEMATIC APPLIES TO THE FOLLOWING EQUIPMENT:

1. GREASE/SCUM GRINDER - SCG NO. 5; LOOP(S) 5234 = PLC - * CP-NR
2. GREASE/SCUM GRINDER - SCG NO. 6; LOOP(S) 5235 = PLC - * CP-NR
3. GREASE/SCUM GRINDER - SCG NO. 7; LOOP(S) 5236 = PLC - * CP-NR
4. GREASE/SCUM GRINDER - SCG NO. 8; LOOP(S) 5237 = PLC - * CP-NR

REV.	DATE	DESCRIPTION	BY
△			
△			
△			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

Infinity Engineering Consultants, LLC — IEC Project No 23-023
Civil∞Structural∞Mechanical∞Electrical∞Marine∞Transportation
Metairie, LA www.infinityec.com 504-304-0548

STATE OF LOUISIANA
JOHN C. LAWRENCE
REG. NO. 27944
REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
4-29-2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

MOTOR SCHEMATICS (2 OF 2)

DR. G. LALA	E-09-013
TRC.	
CK. J. LAWRENCE	
AP. J. LAWRENCE	DWG. No. 12221-W-33
SCALE: AS NOTED	
DATE: APRIL 2025	SET NO. SHEET NO. 81 of 92
PROJECT NO: 21163	DESIGNED BY: M. TORRES
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

LAST SAVED BY: GLALA 4/29/2025 7:51 AM

P:\PROJECTS\23-023 WRIGHT-PIERCE - SWB EBWWTP ELECTRICAL MODIFICATIONS\DRAWINGS\PHASE 1A\WIEFS\21163-CM-SRVMOD.DWG | SECONDARY CLARIFIER NO 6 ELECTRICAL MODIFICATION PLAN | 1:10.12364677 | — | 4/29/2025 7:56:00 AM | GLALA



BID ALTERNATE "B"

TSH-5011
WSH-5011
WSHH-5011
SCL-6
LCS-5011
P-SCL6
P-DSSCL6

BID ALTERNATE "B"

1
E-99-501
(TYP)

BID ALTERNATE "B"

LE-5021
LIT-5021

SCL-6
SECONDARY CLARIFIER NO 6

2
E-99-501
(TYP)

SCUM PIT
P-SCSP6
P-SCG6

TO CLARIFIER No.6
LCS-5235
LCS-5231

A

BID ALTERNATE "B"

EFFLUENT CHANNEL

MATCHLINE
SEE SHT E-52-101

SECONDARY CLARIFIER NO 6
ELECTRICAL MODIFICATION PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1. FOR ELECTRICAL LEGEND, ABBREVIATIONS, AND NOTES, REFER TO DRAWINGS E-00-001 AND E-00-002.
2. FOR INFORMATION REGARDING CONDUIT AND WIRING REQUIREMENTS, REFER TO GENERAL NOTES 26 AND 27, ON DRAWING E-00-002.

EXIST SCUM GRINDER AND SCUM PUMP CONTROL PANELS TO BE DEMOED AND REPLACED WITH LOCAL CONTROL STATIONS. MOTOR STARTERS SHALL BE IN MCC-H



PHOTO A

GENERAL NOTES:

1. THIS SHEET CONTAINS BID ALTERNATE "B" ITEMS AS DESCRIBED IN THE SPECIFICATION SECTION 01100-ALTERNATES.
2. IF ALTERNATE "B" IS NOT AWARDED, CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING EXISTING INSTRUMENTS TO NEW CONTROL PANELS AND REFEEDING POWER CIRCUITS AS INDICATED ON ONE-LINES.

SHEET CONTAINS BID ALTERNATE "B"

REV.	DATE	DESCRIPTION	BY
△			
△			
△			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

Infinity Engineering Consultants, LLC — IEC Project No 23-023
Civil∞Structural∞Mechanical∞Electrical∞Marine∞Transportation
Metairie, LA www.infinityec.com 504-304-0548

STATE OF LOUISIANA
JOHN C. LAWRENCE
REG. NO. 27944
REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
4-29-2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163 | DESIGNED BY: M. TORRES
SUBMISSION: CONTRACT DRAWINGS
CAD COORD: A.COUTURE

SECONDARY CLARIFIER NO 6
ELECTRICAL MODIFICATION PLAN

DR. G. LALA
TRC.
CK. J. LAWRENCE
AP. J. LAWRENCE
SCALE: AS NOTED
DATE: APRIL 2025

E-50-101

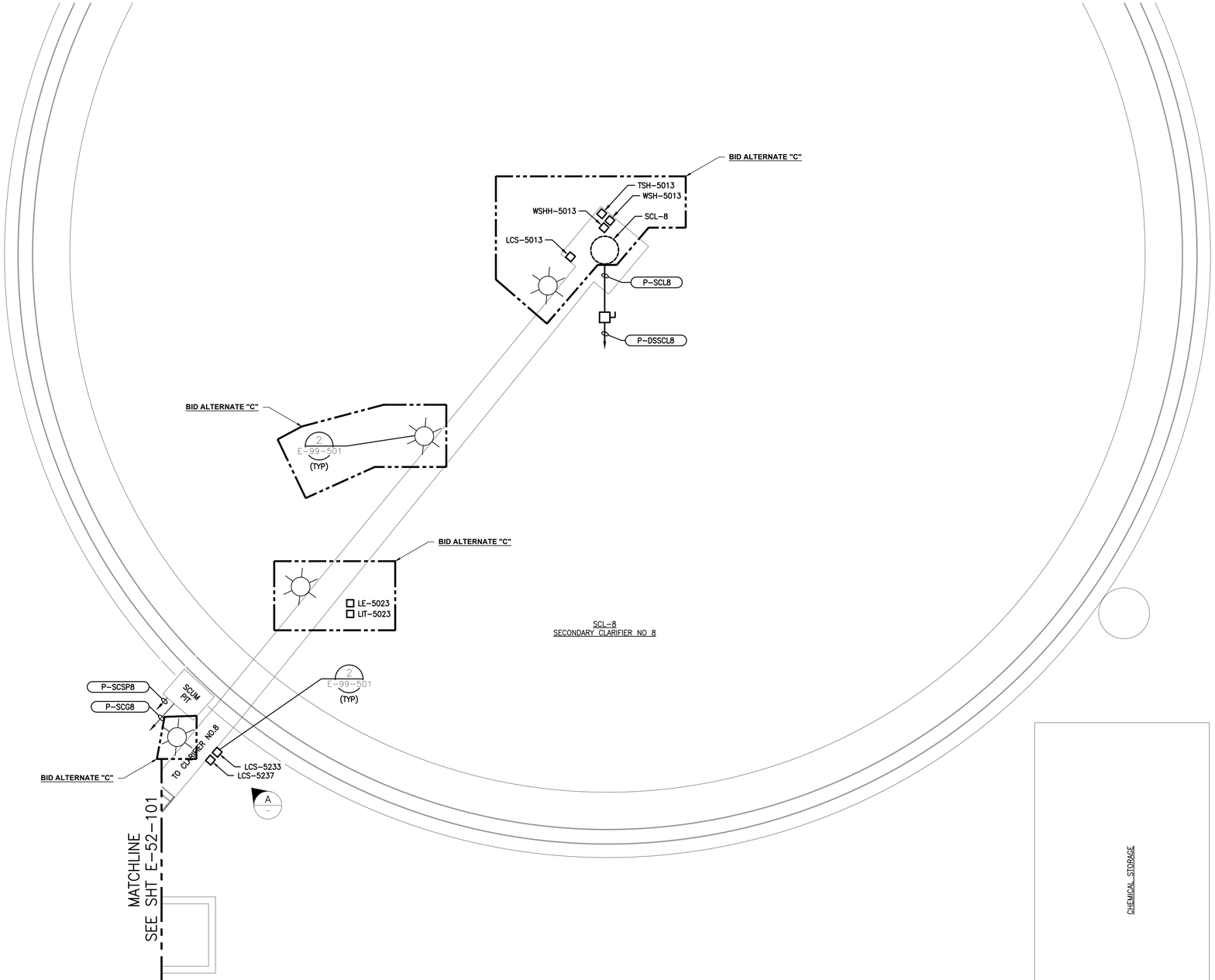
DWG. No. 12221-W-33

SET NO. | SHEET NO. 82 of 92

LAST SAVED BY: GLALA 4/29/2025 7:51 AM

P:\PROJECTS\23-023 WRIGHT-PIERCE - SWB EBWWTP ELECTRICAL MODIFICATIONS\DRAWINGS\PHASE 1A\WIREFS\21163-CM-SRVMOD.DWG | SECONDARY CLARIFIER NO 8 ELECTRICAL MODIFICATION PLAN | 1:10.1236427 | --- | 4/29/2025 7:56:01 AM | GLALA





CHEMICAL STORAGE

NOTES:

1. FOR ELECTRICAL LEGEND, ABBREVIATIONS, AND NOTES, REFER TO DRAWINGS E-00-001 AND E-00-002.
2. FOR INFORMATION REGARDING CONDUIT AND WIRING REQUIREMENTS, REFER TO GENERAL NOTES 26 AND 27, ON DRAWING E-00-002.

EXIST SCUM GRINDER AND SCUM PUMP CONTROL PANELS TO BE DEMOED AND REPLACED WITH LOCAL CONTROL STATIONS. MOTOR STARTERS SHALL BE IN MCC-H



PHOTO A

GENERAL NOTES:

1. THIS SHEET CONTAINS BID ALTERNATE "C" ITEMS AS DESCRIBED IN THE SPECIFICATION SECTION 01100-ALTERNATES.
2. IF ALTERNATE "C" IS NOT AWARDED, CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING EXISTING INSTRUMENTS TO NEW CONTROL PANELS AND REFEEDING POWER CIRCUITS AS INDICATED ON ONE-LINES.

SHEET CONTAINS BID ALTERNATE "C"

SECONDARY CLARIFIER NO 8 ELECTRICAL MODIFICATION PLAN

SCALE: 1/8" = 1'-0"

REV.	DATE	DESCRIPTION	BY
△			
△			
△			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

Infinity Engineering Consultants, LLC
IEC Project No 23-023
Civil=Structural=Mechanical=Electrical=Marine=Transportation
Metairie, LA www.infinityec.com 504-304-0548

STATE OF LOUISIANA
JOHN C. LAWRENCE
REG. NO. 27944
REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
4-29-2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163	DESIGNED BY: M. TORRES
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

SECONDARY CLARIFIER NO 8
ELECTRICAL MODIFICATION PLAN

DR. G. LALA	
TRC.	
CK. J. LAWRENCE	
AP. J. LAWRENCE	
SCALE: AS NOTED	
DATE: APRIL 2025	

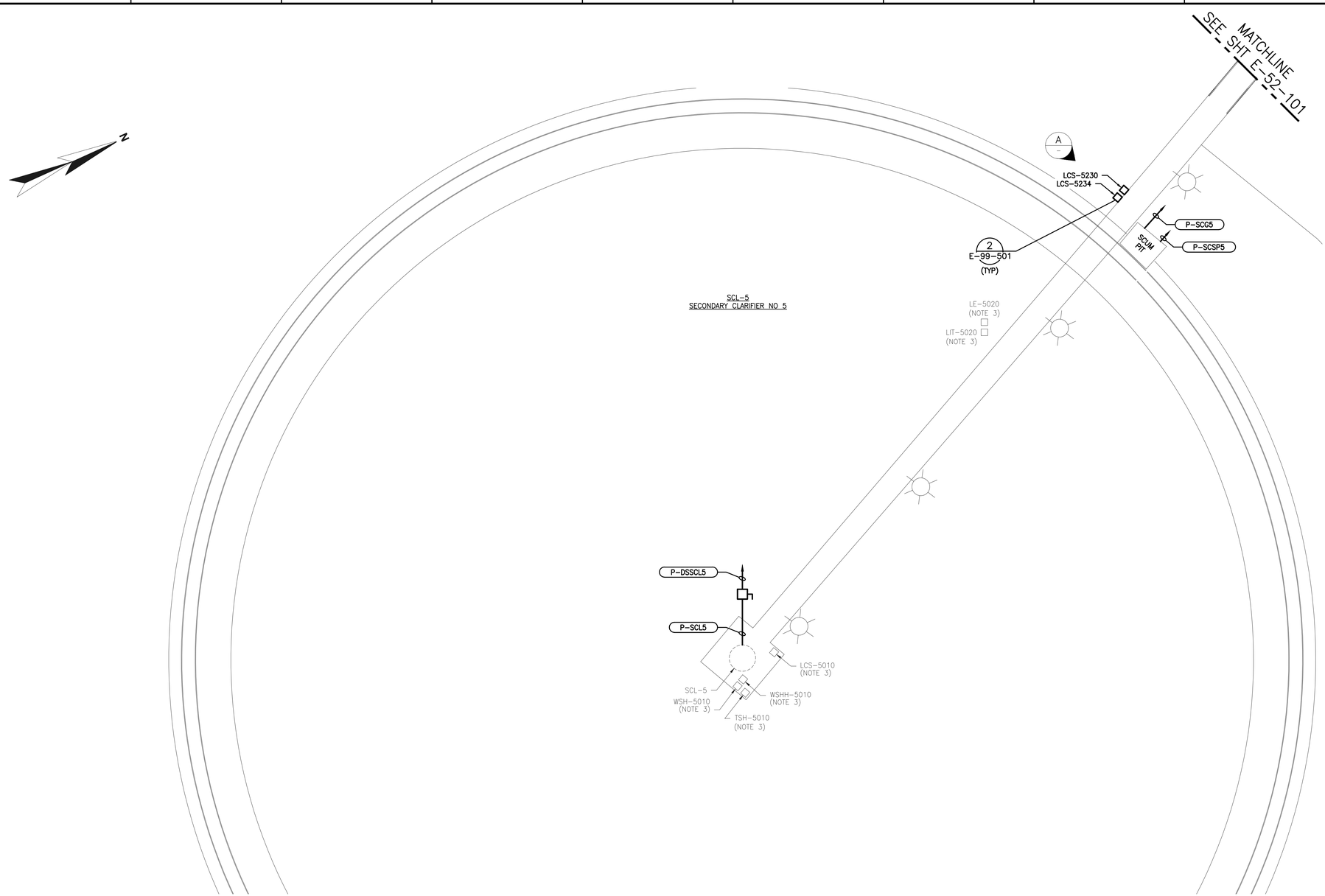
E-50-102

DWG. No. 12221-W-33

SET NO. SHEET NO. 83 of 92

LAST SAVED BY: GLALA 4/29/2025 10:14 AM

P:\PROJECTS\23-023 WRIGHT-PIERCE - SWB EBWWTP ELECTRICAL MODIFICATIONS\DRAWINGS\PHASE 1A\REFS\21163-CM-SRVMOD.DWG | SECONDARY CLARIFIER NO 5 ELECTRICAL MODIFICATION PLAN | 1:10.12364677 | — | 4/29/2025 10:14:42 AM | GLALA



NOTES:

1. FOR ELECTRICAL LEGEND, ABBREVIATIONS, AND NOTES, REFER TO DRAWINGS E-00-001 AND E-00-002.
2. FOR INFORMATION REGARDING CONDUIT AND WIRING REQUIREMENTS, REFER TO GENERAL NOTES 26 AND 27, ON DRAWING E-00-002.
3. EXISTING INSTRUMENTS ARE TO BE RECONNECTED TO NEW CONTROLS SYSTEM.
4. CLARIFIER 5, MECHANICAL AND LIGHTING ARE NOT IN SCOPE OF PROJECT. ONLY POWER AND CONTROLS.

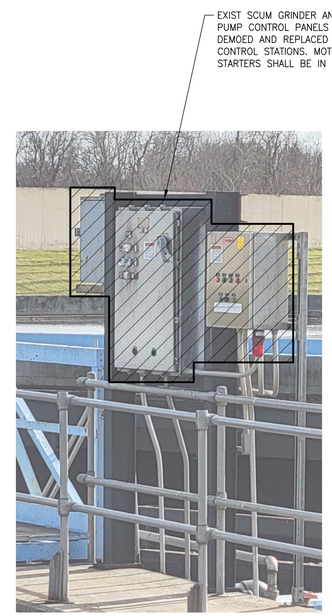


PHOTO A

SECONDARY CLARIFIER NO 5
ELECTRICAL MODIFICATION PLAN

SCALE: 1/8" = 1'-0"

(NOTE 4)

REV.	DATE	DESCRIPTION	BY
△			
△			
△			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

Infinity Engineering Consultants, LLC — IEC Project No 23-023
Civil∞Structural∞Mechanical∞Electrical∞Marine∞Transportation
Metairie, LA www.infinityec.com 504-304-0548

STATE OF LOUISIANA
JOHN C. LAWRENCE
REG. NO. 27944
REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
4-29-2025

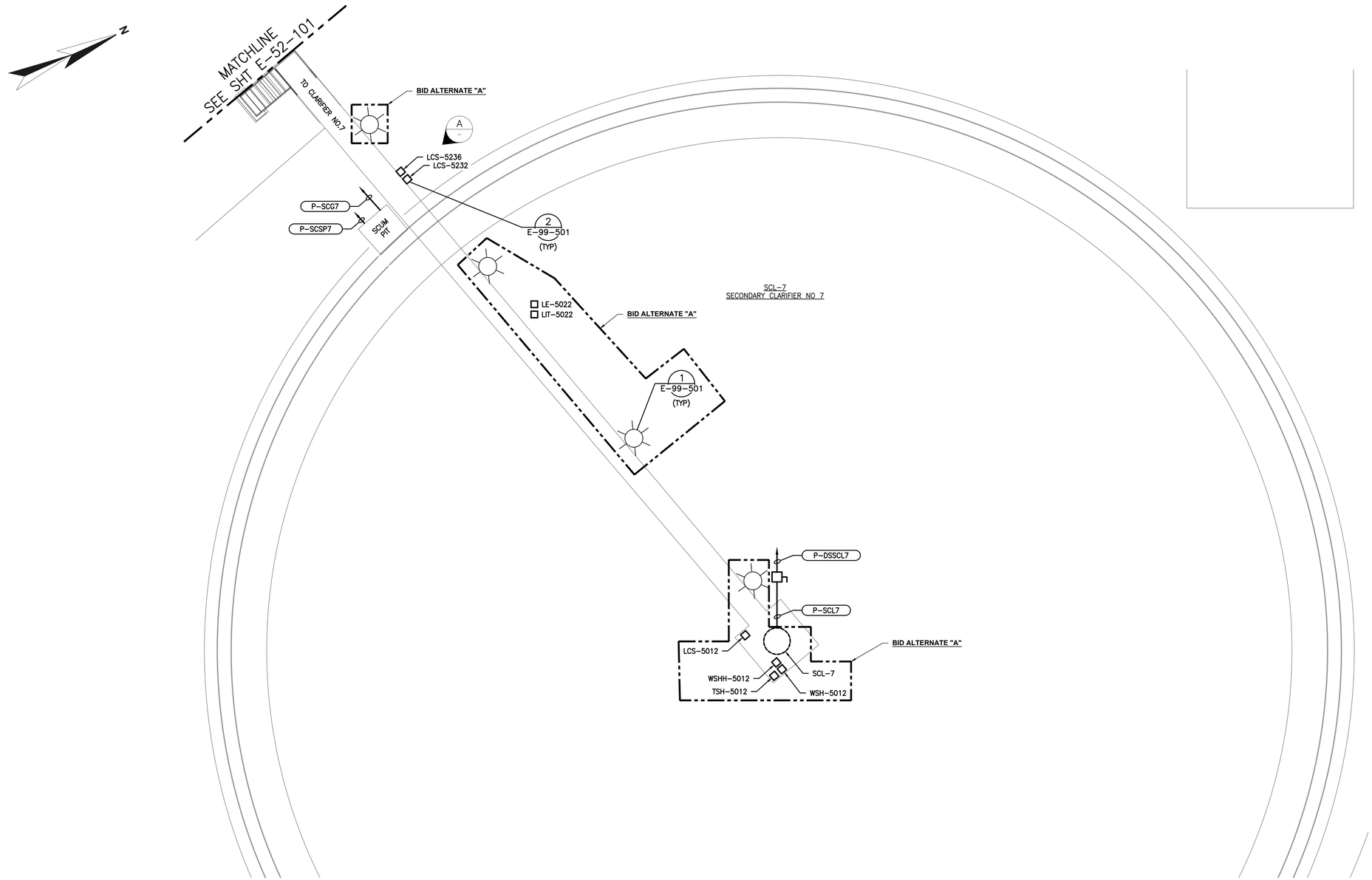
WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

SECONDARY CLARIFIER NO 5
ELECTRICAL MODIFICATION PLAN

DR. G. LALA	E-50-103
TRC.	
CK. J. LAWRENCE	
AP. J. LAWRENCE	DWG. No. 12221-W-33
SCALE: AS NOTED	
DATE: APRIL 2025	SET NO. SHEET NO. 84 of 92
PROJECT NO: 21163 DESIGNED BY: M. TORRES	
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

LAST SAVED BY: GLALA 4/29/2025 7:51 AM

P:\PROJECTS\23-023 WRIGHT-PIERCE - SWB EBWWTP ELECTRICAL MODIFICATIONS\DRAWINGS\PHASE 1A\REFS\21163-CM-SRVMOD.DWG | SECONDARY CLARIFIER NO 7 ELECTRICAL MODIFICATION PLAN | 1:10.12364677 | — | 4/29/2025 7:56:03 AM | GLALA



NOTES:

1. FOR ELECTRICAL LEGEND, ABBREVIATIONS, AND NOTES, REFER TO DRAWINGS E-00-001 AND E-00-002.
2. FOR INFORMATION REGARDING CONDUIT AND WIRING REQUIREMENTS, REFER TO GENERAL NOTES 26 AND 27, ON DRAWING E-00-002.



PHOTO A

SECONDARY CLARIFIER NO 7
ELECTRICAL MODIFICATION PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. THIS SHEET CONTAINS BID ALTERNATE "A" ITEMS AS DESCRIBED IN THE SPECIFICATION SECTION 01100-ALTERNATES.
2. IF ALTERNATE "A" IS NOT AWARDED, CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING EXISTING INSTRUMENTS TO NEW CONTROL PANELS AND REFEEDING POWER CIRCUITS AS INDICATED ON ONE-LINES.

SHEET CONTAINS BID ALTERNATE "A"

REV.	DATE	DESCRIPTION	BY
△			
△			
△			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

Infinity Engineering Consultants, LLC — IEC Project No 23-023
Civil∞Structural∞Mechanical∞Electrical∞Marine∞Transportation
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STATE OF LOUISIANA
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4-29-2025

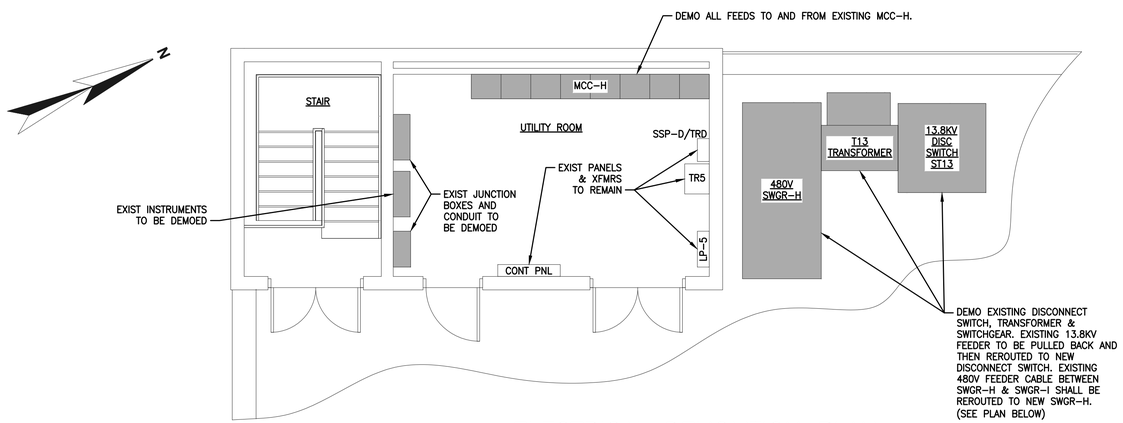
WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

SECONDARY CLARIFIER NO 7
ELECTRICAL MODIFICATION PLAN

PROJECT NO: 21163	DESIGNED BY: M. TORRES	DR. G. LALA	E-50-104
SUBMISSION: CONTRACT DRAWINGS		TRC.	
CAD COORD: A.COUTURE		CK. J. LAWRENCE	
		AP. J. LAWRENCE	DWG. No. 12221-W-33
		SCALE: AS NOTED	
		DATE: APRIL 2025	SET NO. SHEET NO. 85 of 92

LAST SAVED BY: GLALA 4/29/2025 7:51 AM

P:\PROJECTS\23-023 WRIGHT-PIERCE - SWB EBWWTP ELECTRICAL MODIFICATIONS\DRAWINGS\PHASE 1A\XREFS\21163-CM-SRVMOD.DWG | ELECTRICAL PLAN NORTH RAS PUMP STATION | 1:10.12364677 | --- | 4/29/2025 7:56:05 AM | GLALA

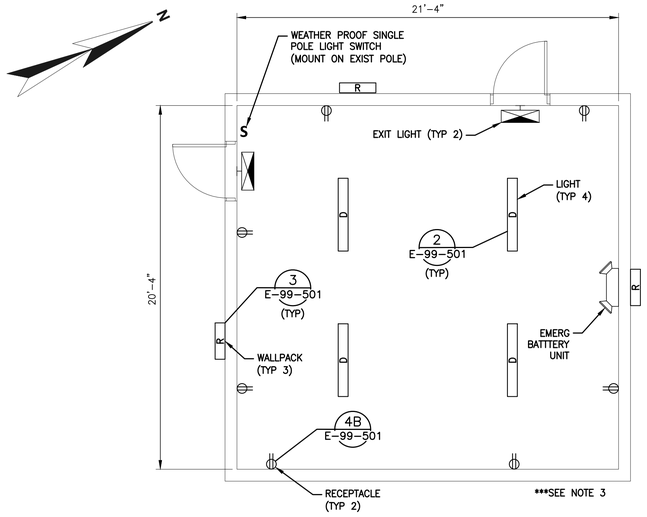


ELECTRICAL DEMOLITION PLAN
NORTH RAS PUMP STATION UTILITY ROOM

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

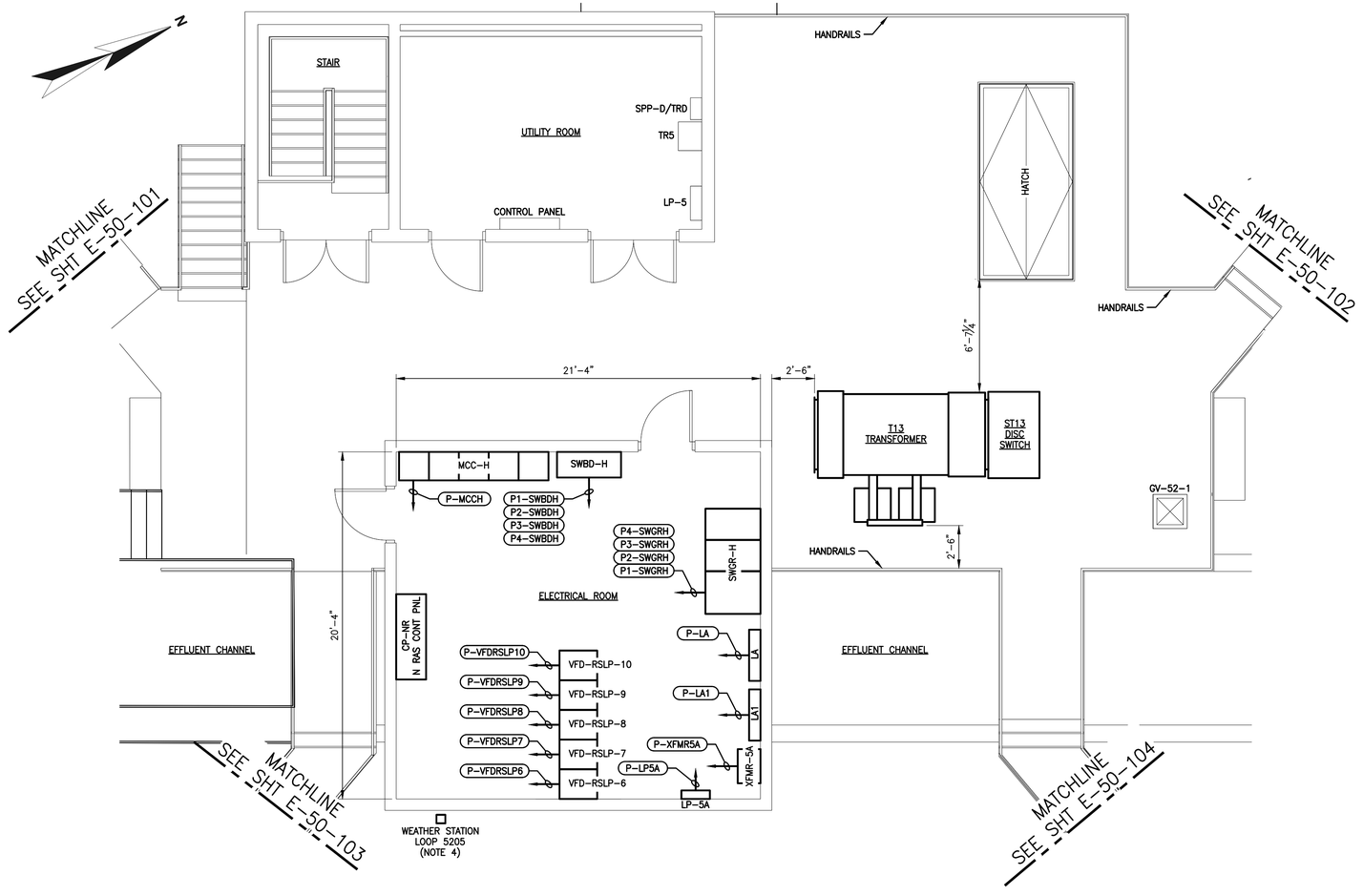
NOTES:

1. FOR ELECTRICAL LEGEND, ABBREVIATIONS, AND NOTES, REFER TO DRAWINGS E-00-001 AND E-00-002.
2. FOR INFORMATION REGARDING CONDUIT AND WIRING REQUIREMENTS, REFER TO GENERAL NOTES 26 AND 27, ON DRAWING E-00-002.
3. FOR LIGHTING FIXTURE & RECEPTACLE SCHEDULES, REFER TO DRAWING E-99-501.
4. CONTRACTOR SHALL COORDINATE WITH ENGINEER/OWNER TO FIELD LOCATE THE WEATHER STATION ON THE EXTERIOR OF THE NEW ELECTRICAL ROOM.



NORTH RAS ELECTRICAL ROOM
LIGHTING AND RECEPTACLE PLAN

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



ELECTRICAL PLAN NORTH RAS PUMP STATION

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

REV.	DATE	DESCRIPTION	BY
△			
△			
△			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

Infinity Engineering Consultants, LLC — IEC Project No 23-023
Civil ∞ Structural ∞ Mechanical ∞ Electrical ∞ Marine ∞ Transportation
Metairie, LA www.infinityec.com 504-304-0548

STATE OF LOUISIANA
JOHN C. LAWRENCE
REG. NO. 27941
REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
4-29-2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

PROJECT NO: 21163	DESIGNED BY: M. TORRES
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

ELECTRICAL PLAN NORTH RAS PUMP STATION

DR. G. LALA	
TRC.	
CK. J. LAWRENCE	
AP. J. LAWRENCE	
SCALE: AS NOTED	
DATE: APRIL 2025	

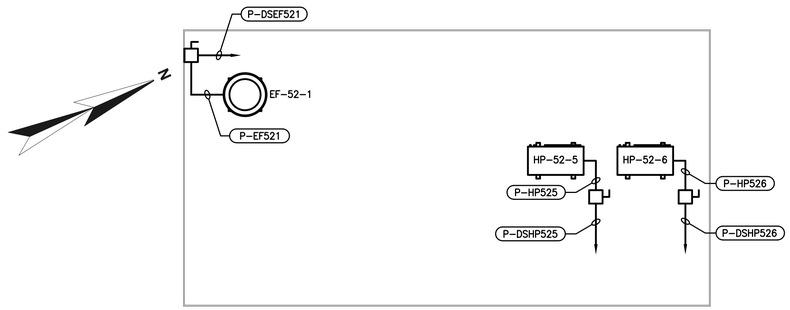
E-52-101

DWG. No. 12221-W-33

SET NO. | SHEET NO. 86 of 92

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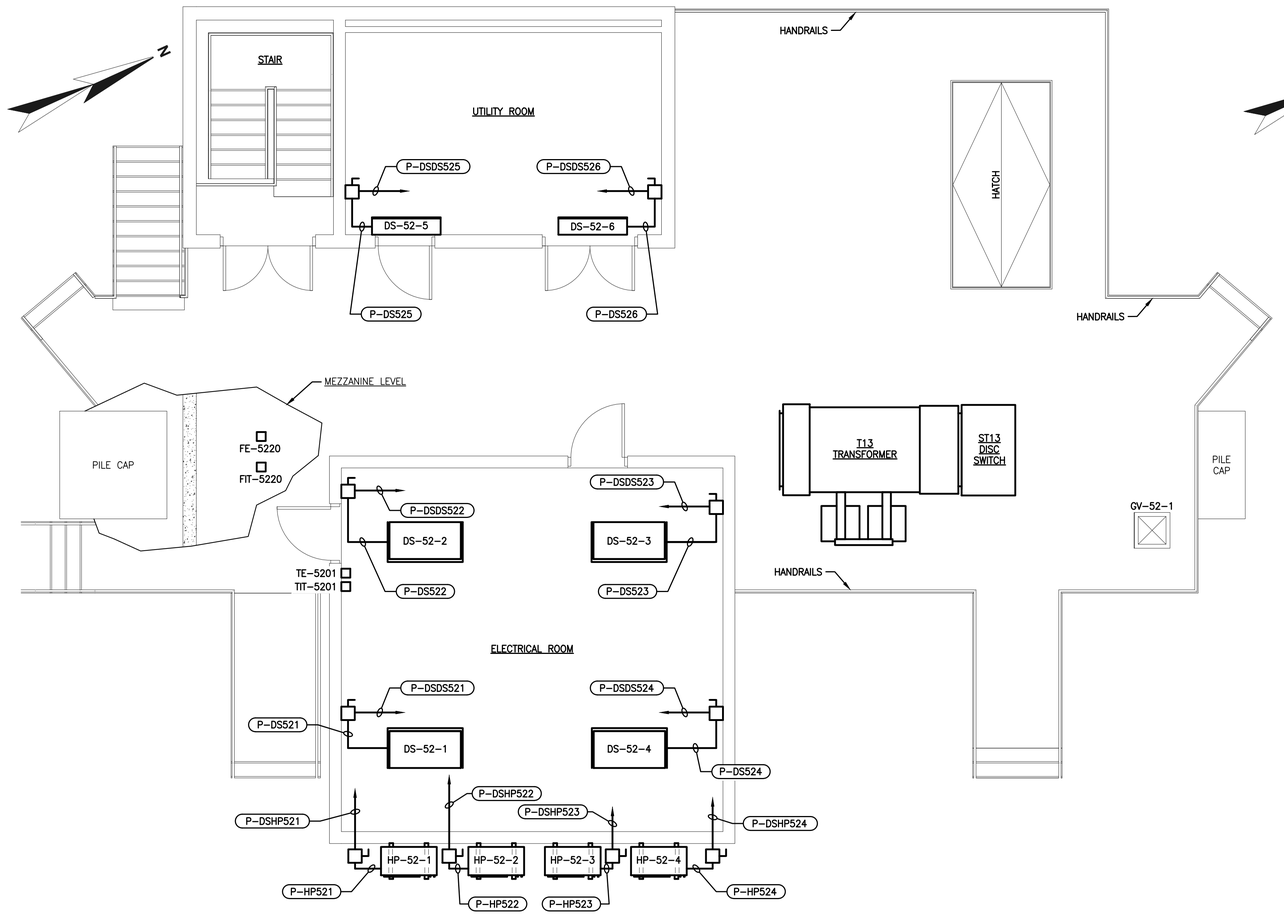


POWER MODIFICATION PLAN
UTILITY ROOM ROOF

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

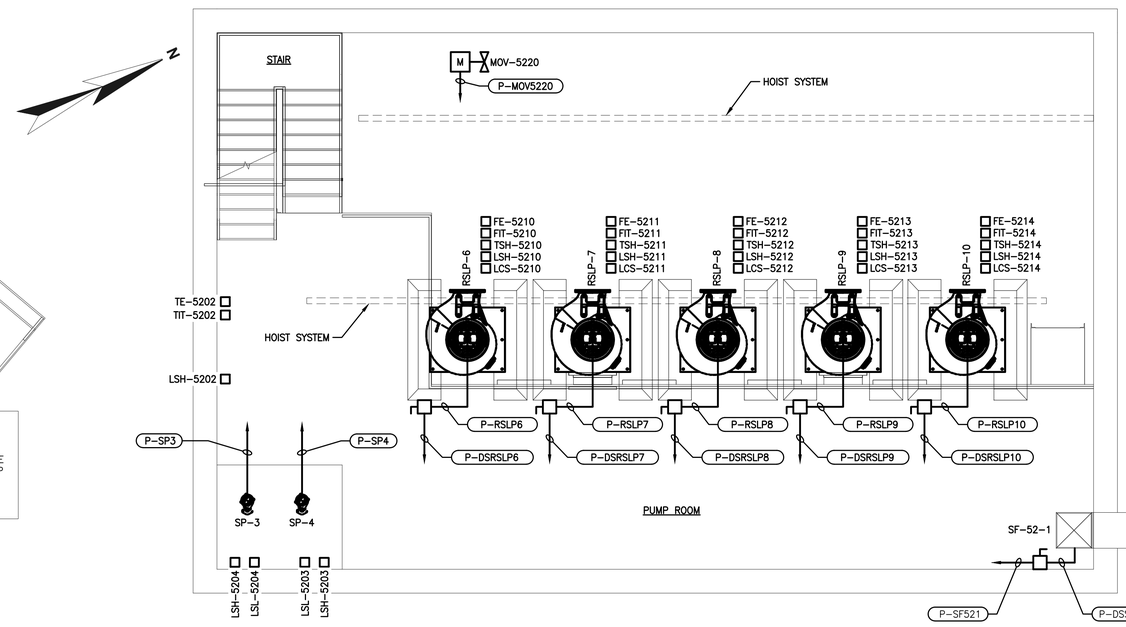
NOTES:

1. FOR ELECTRICAL LEGEND, ABBREVIATIONS, AND NOTES, REFER TO DRAWINGS E-00-001 AND E-00-002.
2. FOR INFORMATION REGARDING CONDUIT AND WIRING REQUIREMENTS, REFER TO GENERAL NOTES 26 AND 27, ON DRAWING E-00-002.
3. REFER TO MECHANICAL PACKAGE FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT.



POWER MODIFICATION PLAN – FIRST FLOOR

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



POWER MODIFICATION PLAN – LOWER LEVEL

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

REV.	DATE	DESCRIPTION	BY
△			
△			
△			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

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STATE OF LOUISIANA
JOHN C. LAWRENCE
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4-29-2025

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ELECTRICAL PLAN NORTH RAS PUMP STATION

PROJECT NO: 21163	DESIGNED BY: M. TORRES
SUBMISSION: CONTRACT DRAWINGS	
CAD COORD: A.COUTURE	

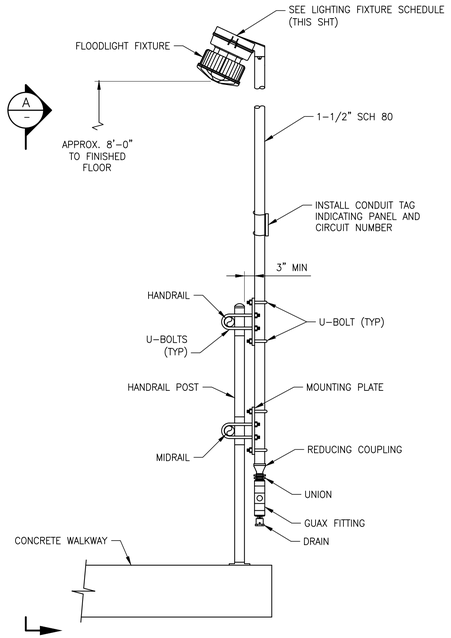
DR. G. LALA	
TRC.	
CK. J. LAWRENCE	
AP. J. LAWRENCE	
SCALE: AS NOTED	
DATE: APRIL 2025	SHEET NO. 87 of 92

E-52-102

DWG. No. 12221-W-33

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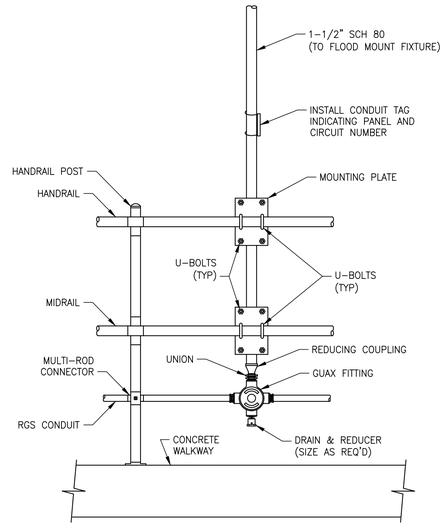


FLOODLIGHT MOUNTING DETAIL 1

SCALE: NTS

E-50-101

E-50-102
E-50-103
E-50-104



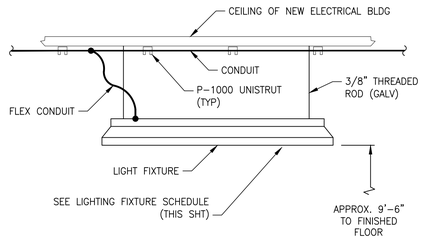
SECTION A

SCALE: NTS

LIGHTING FIXTURE SCHEDULE

CODE	LIGHT SOURCE TYPE	LIGHT SOURCE LAMPING	MOUNTING	MANUFACTURER	CATALOG NUMBER	VOLTS	DESCRIPTION
	LED	56W	STANCHION	EATON*	VMVL-5-J-G-UNV1/VMVL-JM5*	120	LED TYPE FIXTURE, NEMA TYPE 4X, SUITABLE FOR WET LOCATIONS w/ PHOTOCELL & MOUNTING MODULE
D	LED	58W	CEILING OR PENMDANT	COOPER-METALUX*	4VT2-LD4-6-DR-UNV-L835-CD1-U*	120	4 FT ENCL & POLYURETHANE GASKETED, LET, DRY LOCATION, ACRYLIC LENS, 6000 LUMENS
R	LED	20W	WALL	COOPER-MCGRAW-EDISON*	IST-AF-350-LED-E1-T2-BZ*	120	LED COMPACT WALLPACK, IST, UL WET LOCATION, BRONZE FINISH, T2 LIGHT DISTRIBUTION
	LED	1.5W, 3.6VDC	WALL	LITHONIA*	ELM2-LED-HO*	3.6VDC OR 9.6VDC	LED EMERGENCY BATTERY UNIT w/2 LAMPS, NI-CAD BTY, DRY LOCATIONS, 6W REMOTE OUTPUT CAPABILITY
	LED	42W	SURFACE OR SUSPENDED	LITHONIA*	CSVT-L48-ALO3-MVOLT-SWW3-80CRI	120	4 FT ENCL POLYCARBONATE HOUSING, VAPOR TIGHT LED STRIP LIGHT, FROSTED POLYCARBONATE LENS, 5000 LUMENS
	LED	1.1W	WALL, 7 FT AFF	COOPER-SURE-LITES*	LPX7SD*	120	SELF-POWERED EXIT, NI-CAD BATTERY FOR DRY LOCATIONS w/ SELF DIAGNOSTIC SYSTEM
	LED	50W	POLE MOUNTED	LITHONIA*	ESX1-LED-P2-40K-R3-MVOLT-UPA-BLS-DDBXD-M2	120	HIGH-EFFICACY ROUND OR SQUARE POLE MOUNTED LED WITH COLOR TEMPERATURE OF 4000K WITH MINIMUM CRI OF 70

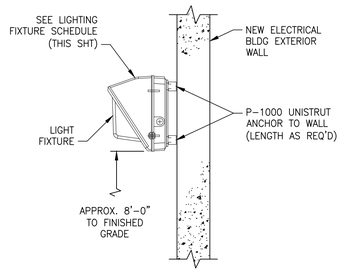
* OR EQUALS



LIGHT FIXTURE CEILING MOUNT DETAIL 2

SCALE: NTS

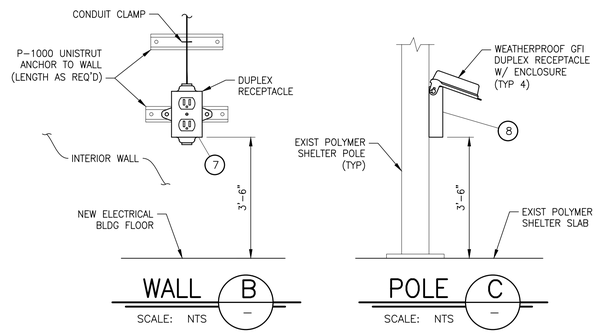
E-52-101



LIGHT FIXTURE WALL MOUNT DETAIL 3

SCALE: NTS

E-52-101

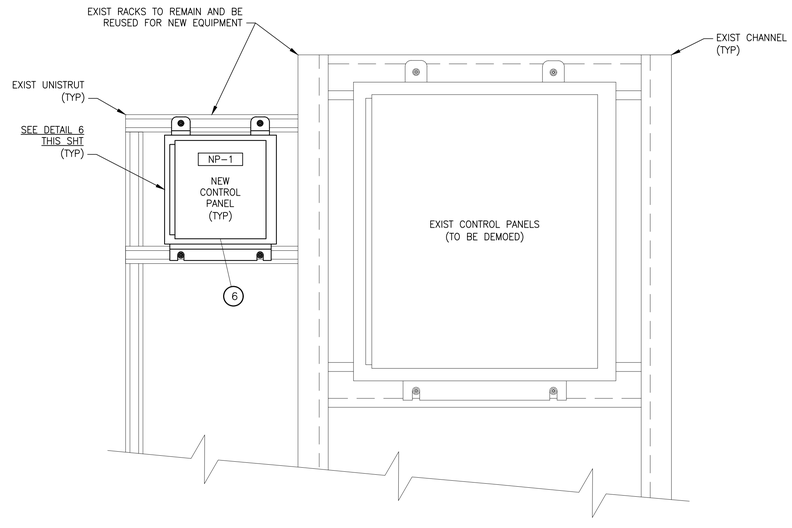


RECEPTACLE MOUNT DETAILS 4

SCALE: NTS

E-52-101

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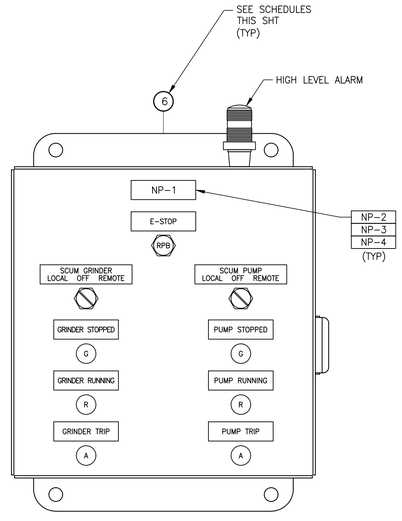


TYPICAL RACK DETAIL 5

SCALE: NTS

E-50-101

E-50-102
E-50-103
E-50-104



TYP CONTROL PANEL DETAILS 6

SCALE: NTS

NAMEPLATE SCHEDULE

ITEM	SIZE	COLOR (Background/text)	TEXT SIZE	LINE 1	LINE 2	LINE 3
NP-1	2" X 4"	WHITE/BLACK	3/8"	SCL-5	CONTROL PANEL	100A
NP-2	2" X 4"	WHITE/BLACK	3/8"	SCL-6	CONTROL PANEL	100A
NP-3	2" X 4"	WHITE/BLACK	3/8"	SCL-7	CONTROL PANEL	100V
NP-4	2" X 4"	WHITE/BLACK	3/8"	SCL-8	CONTROL PANEL	100A

CONTROL PANEL SCHEDULE

ITEM NO.	QUANTITY	DESCRIPTION
6	4	CONTROL PANEL, MOYNO ANNIHILATOR CONTROLLER*

* OR EQUALS

RECEPTACLE SCHEDULE

ITEM NO.	QUANTITY	DESCRIPTION
7	2	CONVIENIENCE RECEPTACLE, 120V, 20A, 1-PH, DUPLEX RECEPTACLE (WALL MOUNT)
8	4	WEATHERPROOF GFI RECEPTACLE W/ENCLOSURE, 120V, 20A, 1-PH, DUPLEX RECEPTACLE (POLE MOUNT)

* OR EQUALS

REV.	DATE	DESCRIPTION	BY
△			
△			
△			

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

Infinity Engineering Consultants, LLC — IEC Project No 23-023
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STATE OF LOUISIANA
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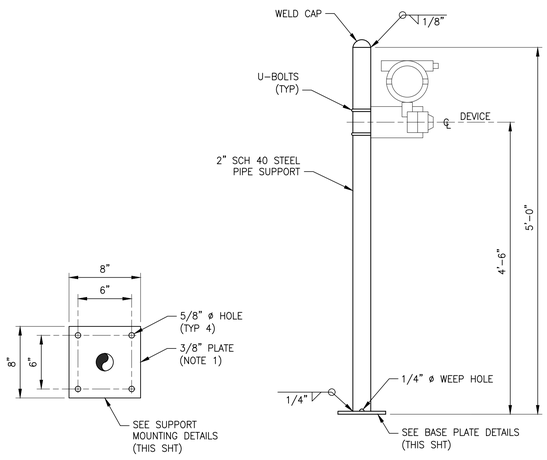
ELECTRICAL DETAILS AND SCHEDULE

DR. G. LALA	E-99-501
TRC.	
CK. J. LAWRENCE	
AP. J. LAWRENCE	DWG. No. 12221-W-33
SCALE: AS NOTED	
DATE: APRIL 2025	SET NO. SHEET NO. 88 of 92

PROJECT NO: 21163 | DESIGNED BY: M. TORRES
SUBMISSION: CONTRACT DRAWINGS
CAD COORD: A.COUTURE

LAST SAVED BY: GLALA 4/24/2025 8:59 AM

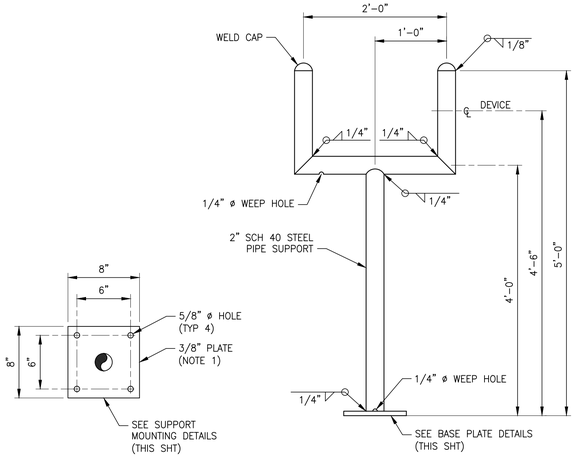
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BASE PLATE DETAIL ELEVATION

SINGLE STAND SUPPORT DETAILS

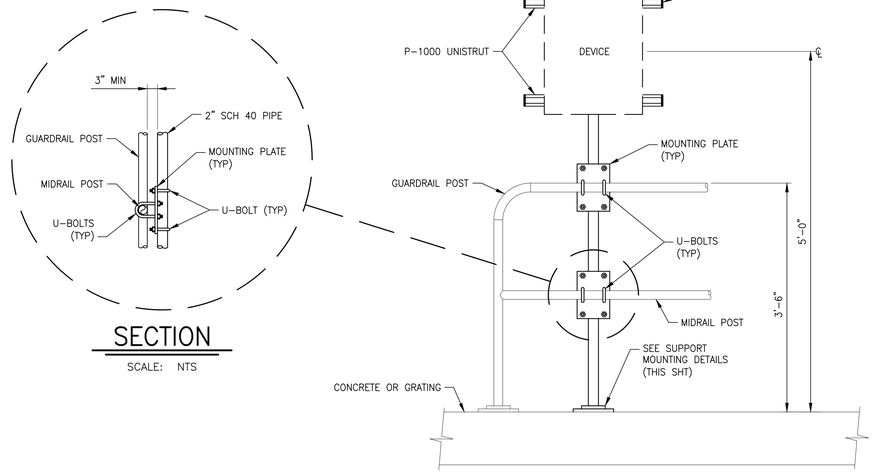
SCALE: NTS



BASE PLATE DETAIL ELEVATION

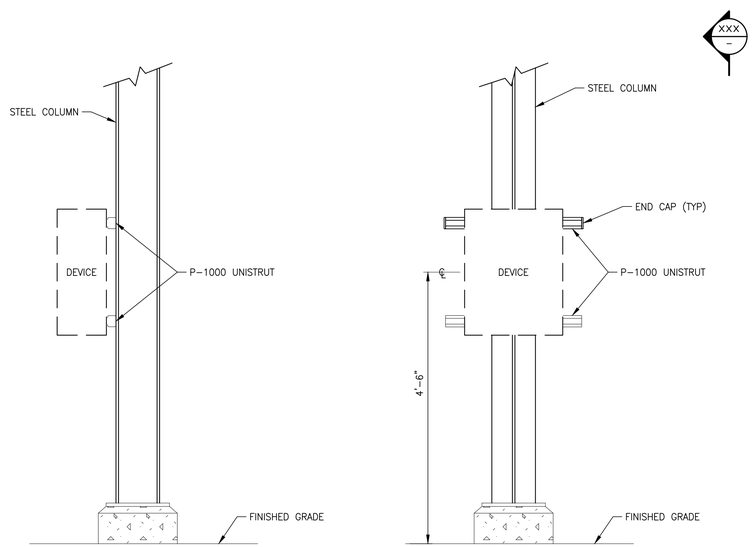
DOUBLE STAND SUPPORT DETAILS

SCALE: NTS



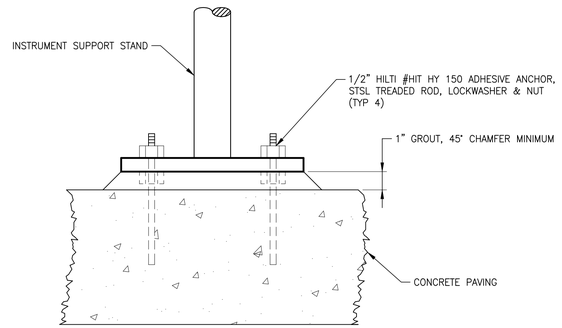
GUARDRAIL MOUNTING DETAILS

SCALE: NTS



COLUMN MOUNTING DETAILS

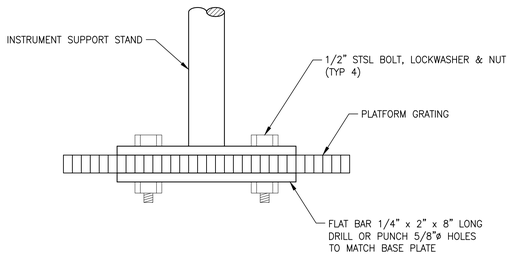
SCALE: NTS



CONCRETE MOUNTING

SUPPORT MOUNTING DETAILS

SCALE: NTS



PLATFORM MOUNTING

SUPPORT MOUNTING DETAILS

SCALE: NTS

REV.	DATE	DESCRIPTION	BY
△			
△			
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109

EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

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STATE OF LOUISIANA — JOHN C. LAWRENCE, REG. NO. 27944, REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING — 4-29-2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

TYPICAL INSTALLATION DETAILS

PROJECT NO: 21163	DESIGNED BY: M. TORRES	DR. G. LALA	E-99-502
SUBMISSION: CONTRACT DRAWINGS		TRC.	
CAD COORD: A.COUTURE		CK. J. LAWRENCE	
		AP. J. LAWRENCE	DWG. No. 12221-W-33
		SCALE: AS NOTED	
		DATE: APRIL 2025	SET NO. SHEET NO. 89 of 92

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P:\PROJECTS\23-023 WRIGHT-PIERCE - SWB EBWWTP ELECTRICAL MODIFICATIONS\DRAWINGS\PHASE 1A\PRODUCTION DRAWINGS\ELECTRICAL\PANEL SCHEDULES.DWG | NORTH RAS PANEL SCHEDULES | 11:0.12364677 | --- | 4/29/2025 7:56:20 AM | GLALA

PANEL	LP-5A			NTRL.	X	100%			AIC	RATED	10,000	CALC	7,272								
LOCATION	NORTH RAS PUMP STATION					200%		X	FULLY RATED												
AMPERES	200A	*RATED*		MOUNT.	X	SURFACE			SERIES RATED												
VOLTS		120/240V, 3PH,3W, DELTA W/3PH "STINGER"				FLUSH			PANEL HAS FRONT ACCESS ONLY												
	X	120/208V, 3PH,4W, WYE		ENCL.	X	NEMA1			ALL COPPER BUSSING												
	X	277/480V, 3PH,4W, WYE				NEMA3R			FURNISH GROUND BAR KIT												
	X	FACTORY MAIN CIRCUIT BREAKER				LOCKABLE COVER			FURNISH ADDITIONAL ISOLATED GROUND BAR KIT												
		SHUNT TRIP MAIN CB		FEED	X	TOP			SERVICE ENTRANCE LABEL												
		MAIN LUGS ONLY				BOTTOM		X	NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC												
		UL LISTED FEED-THRU LUGS		BRNCH.		BOLT-ON			USE 1/4" LETTERING FOR PANEL NAME, 1 LINE												
		MAIN FUSIBLE SWITCH, FURNISH FUSES			X	STAB-IN			USE 1/8" LETTERING FOR VOLTS, AMPS, FED FROM												
						FUSIBLE SWITCHES			MONTH/YR. INSTALLED, 4 LINES												
MFG.:	SQUARE D							X	BLACK FIELD, WHITE LETTERS												
									RED FIELD, WHITE LETTERS												

CKT #	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	KILOVOLT-AMPS A	B	C	LCL		KILOVOLT-AMPS A	B	C	LCL	LOAD DESCRIPTION	# OF POLES	TRIP AMPS	CKT #
1	2	30	HP-52-1 NORTH PUMP HOUSE BLDG	0.92			0.23	^--	0.92			0.23	HP-52-2 NORTH PUMP HOUSE BLDG	2	30	2
3			ELECTRICAL ROOM DISC SW (NEW)		0.92		0.23	-^-		0.92		0.23	ELECTRICAL ROOM DISC SW (NEW)			4
5	2	30	HP-52-3 NORTH PUMP HOUSE BLDG			0.92	0.23	--^			0.92	0.23	HP-52-4 NORTH PUMP HOUSE BLDG	2	30	6
7			ELECTRICAL ROOM DISC SW (NEW)	0.92			0.23	^--	0.92			0.23	ELECTRICAL ROOM DISC SW (NEW)			8
9	2	25	HP-52-5 NORTH PUMP HOUSE BLDG		0.81		0.20	-^-		0.81		0.20	HP-52-6 NORTH PUMP HOUSE BLDG	2	25	10
11			ELECTRICAL ROOM DISC SW (NEW)			0.81	0.20	--^			0.81	0.20	ELECTRICAL ROOM DISC SW (OLD)			12
13	2	20	DS-52-1 NORTH PUMP HOUSE BLDG	0.11			0.03	^--	0.11			0.03	DS-52-2 NORTH PUMP HOUSE BLDG	2	20	14
15			ELECTRICAL ROOM DISC SW (NEW)		0.11		0.03	-^-		0.11		0.03	ELECTRICAL ROOM DISC SW (NEW)			16
17	2	20	DS-52-3 NORTH PUMP HOUSE BLDG			0.11	0.03	--^			0.11	0.03	DS-52-4 NORTH PUMP HOUSE BLDG	2	20	18
19			ELECTRICAL ROOM DISC SW (NEW)	0.11			0.03	^--	0.11			0.03	ELECTRICAL ROOM DISC SW (NEW)			20
21	2	20	DS-52-5 NORTH PUMP HOUSE BLDG		0.04		0.01	-^-		0.04		0.01	DS-52-6 NORTH PUMP HOUSE BLDG	2	20	22
23			ELECTRICAL ROOM DISC SW (OLD)			0.04	0.01	--^			0.04	0.01	ELECTRICAL ROOM DISC SW (OLD)			24
25	2	20	EF-52-1 NORTH PUMP HOUSE BLDG	0.34			0.08	^--	0.25			0.06	SF-52-1 NORTH PUMP HOUSE BLDG	2	20	26
27			PUMP ROOM DISC SW		0.34		0.08	-^-		0.25		0.06	PUMP ROOM DISC SW			28
29	1	20	SP-52-1 N PUMP HOUSE BLDG PUMP RM			0.37	0.09	--^			0.37	0.09	SP-52-2 N PUMP HOUSE BLDG PUMP RM	1	20	30
31	1	20	N RAS PUMP STATION CONTROL PANEL	1.80			0.45	^--	0.29			0.07	ELECTRICAL ROOM LIGHTS	1	20	32
33	1	20	ELECTRICAL ROOM RECEP		1.26		0.32	-^-					SPARE	1	20	34
35	1	20	SPARE					--^					SPARE	1	20	36
37	1	20	SPARE					^--					SPARE	1	20	38
39	1	20	SPARE					-^-					SPARE	1	20	40
41	1	20	SPARE					--^					SPARE	1	20	42
				4.20	3.48	2.25	2.48		2.60	2.13	2.25	1.74	TOTAL BY PHASE			
									6.80	5.60	4.50	4.23	TOTAL BY PHASE BOTH SIDES			
RECEP	RECEPTACLE												FEED-THRU LUG LOAD			
DC	DIRECT CONNECT								6.80	5.60	4.50	4.23	TOTAL CONNECTED LOAD			
									56.64	46.69	37.54	35.22	AMPERES 120 VOLTS (SINGLE PHASE)			
													21 KVA TOTAL			
													59 AMPS AT 208 VOLTS (PHASE AS NOTED)			
DLB													04/29/25			

PANEL SCHEDULE

PANEL	LA			NTRL.	X	100%			AIC	RATED	35,000	CALC	24,056								
LOCATION	NORTH RAS PUMP STATION					200%		X	FULLY RATED												
AMPERES	200A	*RATED*		MOUNT.	X	SURFACE			SERIES RATED												
VOLTS		120/240V, 3PH,3W, DELTA W/3PH "STINGER"				FLUSH			PANEL HAS FRONT ACCESS ONLY												
		120/208V, 3PH,4W, WYE		ENCL.	X	NEMA1			ALL COPPER BUSSING												
	X	277/480V, 3PH,4W, WYE				NEMA3R			FURNISH GROUND BAR KIT												
	X	FACTORY MAIN CIRCUIT BREAKER				LOCKABLE COVER			FURNISH ADDITIONAL ISOLATED GROUND BAR KIT												
		SHUNT TRIP MAIN CB		FEED	X	TOP			SERVICE ENTRANCE LABEL												
		MAIN LUGS ONLY				BOTTOM		X	NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC												
		UL LISTED FEED-THRU LUGS		BRNCH.		BOLT-ON			USE 1/4" LETTERING FOR PANEL NAME, 1 LINE												
		MAIN FUSIBLE SWITCH, FURNISH FUSES			X	STAB-IN			USE 1/8" LETTERING FOR VOLTS, AMPS, FED FROM												
						FUSIBLE SWITCHES			MONTH/YR. INSTALLED, 4 LINES												
MFG.:	SQUARE D							X	BLACK FIELD, WHITE LETTERS												
									RED FIELD, WHITE LETTERS												

CKT #	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	KILOVOLT-AMPS A	B	C	LCL		KILOVOLT-AMPS A	B	C	LCL	LOAD DESCRIPTION	# OF POLES	TRIP AMPS	CKT #
1		20		0.06			0.02	^--					SPARE	1	20	2
3	3	20	MOV-5220		0.06		0.02	-^-					SPARE	1	20	4
5		20				0.06	0.02	--^					SPARE	1	20	6
7	1	20	SPARE					^--					SPARE	1	20	8
9	1	20	SPARE					-^-					SPARE	1	20	10
11	1	20	SPARE					--^					SPARE	1	20	12
13	1	20	SPARE					^--					SPARE	1	20	14
15	1	20	SPARE					-^-					SPARE	1	20	16
17	1	20	SPARE					--^					SPARE	1	20	18
19	1	20	SPARE					^--					SPARE	1	20	20
21	1	20	SPARE					-^-					SPARE	1	20	22
23	1	20	SPARE					--^					SPARE	1	20	24
25	1	20	SPARE					^--					SPARE	1	20	26
27	1	20	SPARE					-^-					SPARE	1	20	28
29	1	20	SPARE					--^					SPARE	1	20	30
31	1	20	SPARE					^--					SPARE	1	20	32
33	1	20	SPARE					-^-					SPARE	1	20	34
35	1	20	SPARE					--^					SPARE	1	20	36
37	1	20	SPARE					^--					SPARE	1	20	38
39	1	20	SPARE					-^-					SPARE	1	20	40
41	1	20	SPARE					--^					SPARE	1	20	42
				0.06	0.06	0.06	0.05		0.00	0.00	0.00	0.00	TOTAL BY PHASE			
									0.06	0.06	0.06	0.05	TOTAL BY PHASE BOTH SIDES			
RECEP	RECEPTACLE												FEED-THRU LUG LOAD			
DC	DIRECT CONNECT								0.06	0.06	0.06	0.05	TOTAL CONNECTED LOAD			
									0.22	0.22	0.22	0.16	AMPERES 277 VOLTS (SINGLE PHASE)			
													0.23 KVA TOTAL			
													0.27 AMPS AT 480 VOLTS (PHASE AS NOTED)			
DLB													04/29/25			

PANEL SCHEDULE

PANEL	LA			NTRL.	X	100%			AIC	RATED	35,000	CALC	24,056								
LOCATION	NORTH RAS PUMP STATION					200%		X	FULLY RATED												
AMPERES	200A	*RATED*		MOUNT.	X	SURFACE			SERIES RATED												
VOLTS		120/240V, 3PH,3W, DELTA W/3PH "STINGER"				FLUSH			PANEL HAS FRONT ACCESS ONLY												
		120/208V, 3PH,4W, WYE		ENCL.	X	NEMA1			ALL COPPER BUSSING												
	X	277/480V, 3PH,4W, WYE				NEMA3R			FURNISH GROUND BAR KIT												
	X	FACTORY MAIN CIRCUIT BREAKER				LOCKABLE COVER			FURNISH ADDITIONAL ISOLATED GROUND BAR KIT												
		SHUNT TRIP MAIN CB		FEED	X	TOP			SERVICE ENTRANCE LABEL												
		MAIN LUGS ONLY				BOTTOM		X	NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC												
		UL LISTED FEED-THRU LUGS		BRNCH.		BOLT-ON			USE 1/4" LETTERING FOR PANEL NAME, 1 LINE												
		MAIN FUSIBLE SWITCH, FURNISH FUSES			X	STAB-IN			USE 1/8" LETTERING FOR VOLTS, AMPS, FED FROM												
						FUSIBLE SWITCHES			MONTH/YR. INSTALLED, 4 LINES												
MFG.:	SQUARE D							X	BLACK FIELD, WHITE LETTERS												
									RED FIELD, WHITE LETTERS												

CKT #	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	KILOVOLT-AMPS A	B	C	LCL		KILOVOLT-AMPS A	B	C	LCL	LOAD DESCRIPTION	# OF POLES	TRIP AMPS	CKT #
1	1	20	SPARE					^--					SPARE	1	20	2
3	1	20	SPARE					-^-					SPARE	1	20	4
5	1	20	SPARE					--^					SPARE	1	20	6
7	1	20	SPARE					^--					SPARE	1	20	8
9	1	20	SPARE					-^-					SPARE	1	20	10
11	1	20	SPARE					--^					SPARE	1	20	12
13	1	20	SPARE					^--					SPARE	1	20	14
15	1	20	SPARE					-^-					SPARE	1	20	16
17	1	20	SPARE					--^					SPARE	1	20	18
19	1	20	SPARE					^--					SPARE	1	20	20
21	1	20	SPARE					-^-					SPARE	1	20	22
23	1	20	SPARE					--^					SPARE	1	20	24
25	1	20	SPARE					^--					SPARE	1	20	26
27	1	20	SPARE					-^-					SPARE	1	20	28
29	1	20	SPARE					--^					SPARE	1	20	30
31	1	20	SPARE					^--					SPARE	1	20	32
33	1	20	SPARE					-^-					SPARE	1	20	34
35	1	20	SPARE					--^					SPARE	1	20	36
37	1	20	SPARE					^--					SPARE	1	20	38
39	1	20	SPARE					-^-					SPARE	1	20	40
41	1	20	SPARE					--^					SPARE	1	20	42
				0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	TOTAL BY PHASE			
									0.00	0.00	0.00	0.00	TOTAL BY PHASE BOTH SIDES			
RECEP	RECEPTACLE												FEED-THRU LUG LOAD			
DC	DIRECT CONNECT								0.00	0.00	0.00	0.00	TOTAL CONNECTED LOAD			
PS	PUMP STATION								0.00	0.00	0.00	0.00	AMPERES 277 VOLTS (SINGLE PHASE)			
													0 KVA TOTAL			
													0 AMPS AT 480 VOLTS (PHASE AS NOTED)			
DLB													04/29/25			

REV.	DATE	DESCRIPTION	BY
1	2/11/2025	CITY OF NEW ORLEANS - BUILDING PERMIT	JCL

Infinity Engineering Consultants, LLC — IEC Project No 23-023
Civil∞Structural∞Mechanical∞Electrical∞Marine∞Transportation
Metairie, LA www.infinityec.com 504-304-0548

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

STATE OF LOUISIANA
JOHN C. LAWRENCE
REG. NO. 27944
REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
4-29-2025

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601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

NORTH RAS PANEL SCHEDULES

PROJECT NO: 21163	DESIGNED BY: M. TORRES	DR. G. LALA	E-99-601
SUBMISSION: CONTRACT DRAWINGS		TRC.	
CAD COORD: A.COUTURE		CK. J. LAWRENCE	
SCALE: AS NOTED		AP. J. LAWRENCE	DWG. No. 12221-W-33
DATE: APRIL 2025	SET NO.	SHEET NO. 90 of 92	

CONDUIT NO	SIZE		DESTINATION	
	CONDUIT	CONDUCTOR	FROM	TO
P1-MCCH	2-1/2"	1#350, 1#1/0GND	SWITCHBOARD SWBD-H	MOTOR CONTROL CENTER MCC-H
P2-MCCH	2-1/2"	1#350, 1#1/0GND	SWITCHBOARD SWBD-H	MOTOR CONTROL CENTER MCC-H
P1-SWGRH	4"	4#600, 1#4/0GND	SWITCHGEAR TRANSFORMER XFRM-SWGR-H	SWITCHGEAR SWGR-H
P2-SWGRH	4"	4#600, 1#4/0GND	SWITCHGEAR TRANSFORMER XFRM-SWGR-H	SWITCHGEAR SWGR-H
P3-SWGRH	4"	4#600, 1#4/0GND	SWITCHGEAR TRANSFORMER XFRM-SWGR-H	SWITCHGEAR SWGR-H
P4-SWGRH	4"	4#600, 1#4/0GND	SWITCHGEAR TRANSFORMER XFRM-SWGR-H	SWITCHGEAR SWGR-H
P1-SWBDH	4"	4#600, 1#4/0GND	SWITCHGEAR SWGR-H	SWITCHBOARD SWBD-H
P2-SWBDH	4"	4#600, 1#4/0GND	SWITCHGEAR SWGR-H	SWITCHBOARD SWBD-H
P3-SWBDH	4"	4#600, 1#4/0GND	SWITCHGEAR SWGR-H	SWITCHBOARD SWBD-H
P4-SWBDH	4"	4#600, 1#4/0GND	SWITCHGEAR SWGR-H	SWITCHBOARD SWBD-H
P-AC	1"	3#12, 1#12GND	SWITCHBOARD SWBD-H	AIR CONDITIONER AC
P-CPNR	1"	2#12, 1#12GND	LP-5A	NORTH RAS PUMP STATION CONTROL PANEL
P-DSS22	1"	2#12, 1#12GND	DUCTLESS SPLIT HEAT PUMP NO.2 DISCONNECT SWITCH	DUCTLESS SPLIT HEAT PUMP NO. 2 DS-52-2
P-DSS23	1"	2#12, 1#12GND	DUCTLESS SPLIT HEAT PUMP NO.3 DISCONNECT SWITCH	DUCTLESS SPLIT HEAT PUMP NO. 3 DS-52-3
P-DSS24	1"	2#12, 1#12GND	DUCTLESS SPLIT HEAT PUMP NO.4 DISCONNECT SWITCH	DUCTLESS SPLIT HEAT PUMP NO. 4 DS-52-4
P-DSS25	1"	2#12, 1#12GND	DUCTLESS SPLIT HEAT PUMP NO.5 DISCONNECT SWITCH	DUCTLESS SPLIT HEAT PUMP NO. 5 DS-52-5
P-DSS26	1"	2#12, 1#12GND	DUCTLESS SPLIT HEAT PUMP NO.6 DISCONNECT SWITCH	DUCTLESS SPLIT HEAT PUMP NO. 6 DS-52-6
P-DSDS521	1"	2#12, 1#12GND	LP-5A	DUCTLESS SPLIT AIR CONDITIONER NO. 1 DISCONNECT SWITCH
P-DSDS522	1"	2#12, 1#12GND	LP-5A	DUCTLESS SPLIT AIR CONDITIONER NO. 2 DISCONNECT SWITCH
P-DSDS523	1"	2#12, 1#12GND	LP-5A	DUCTLESS SPLIT AIR CONDITIONER NO. 3 DISCONNECT SWITCH
P-DSDS524	1"	2#12, 1#12GND	LP-5A	DUCTLESS SPLIT AIR CONDITIONER NO. 4 DISCONNECT SWITCH
P-DSDS525	1"	2#12, 1#12GND	LP-5A	DUCTLESS SPLIT AIR CONDITIONER NO. 5 DISCONNECT SWITCH
P-DSDS526	1"	2#12, 1#12GND	LP-5A	DUCTLESS SPLIT AIR CONDITIONER NO. 6 DISCONNECT SWITCH
P-DSEF521	1"	2#12, 1#12GND	LA1	EXHAUST FAN EF-52-1 DISCONNECT SWITCH
P-DSFP1	1"	2#12, 1#12GND	LP-6A	DEWATERING SLUDGE TRANSFER PUMP NO. 1 CONTROL PANEL
P-DSFP2	1"	2#12, 1#12GND	LP-6A	DEWATERING SLUDGE TRANSFER PUMP NO. 2 CONTROL PANEL
P-DSHP521	1"	2#10, 1#10GND	LP-5A	AIR COOLED HEAT PUMP DISCONNECT SWITCH NO. 1
P-DSHP522	1"	2#10, 1#10GND	LP-5A	AIR COOLED HEAT PUMP DISCONNECT SWITCH NO. 2
P-DSHP523	1"	2#10, 1#10GND	LP-5A	AIR COOLED HEAT PUMP DISCONNECT SWITCH NO. 3
P-DSHP524	1"	2#10, 1#10GND	LP-5A	AIR COOLED HEAT PUMP DISCONNECT SWITCH NO. 4
P-DSHP525	1"	2#10, 1#10GND	LP-5A	AIR COOLED HEAT PUMP DISCONNECT SWITCH NO. 5
P-DSHP526	1"	2#10, 1#10GND	LP-5A	AIR COOLED HEAT PUMP DISCONNECT SWITCH NO. 6
P-DSRSLP10	2"	3#250, 1#4GND	RETURN ACTIVATED SLUDGE PUMP NO. 10 VFD	RETURN ACTIVATED SLUDGE PUMP NO. 10 DISCONNECT SWITCH
P-DSRSLP6	2"	3#250, 1#4GND	RETURN ACTIVATED SLUDGE PUMP NO. 6 VFD	RETURN ACTIVATED SLUDGE PUMP NO. 6 DISCONNECT SWITCH
P-DSRSLP7	2"	3#250, 1#4GND	RETURN ACTIVATED SLUDGE PUMP NO. 7 VFD	RETURN ACTIVATED SLUDGE PUMP NO. 7 DISCONNECT SWITCH
P-DSRSLP8	2"	3#250, 1#4GND	RETURN ACTIVATED SLUDGE PUMP NO. 8 VFD	RETURN ACTIVATED SLUDGE PUMP NO. 8 DISCONNECT SWITCH
P-DSRSLP9	2"	3#250, 1#4GND	RETURN ACTIVATED SLUDGE PUMP NO. 9 VFD	RETURN ACTIVATED SLUDGE PUMP NO. 9 DISCONNECT SWITCH
P-DSSF521	1"	2#12, 1#12GND	LA1	SUPPLY FAN SF-52-1 DISCONNECT SWITCH
P-DSSTDP1	1"	3#8, 1#10GND	MOTOR CONTROL CENTER MCC-C	SEDIMENTATION BASIN DRAIN PUMPS NO. 1 DISCONNECT SWITCH
P-DSSTDP2	1"	3#8, 1#10GND	MOTOR CONTROL CENTER MCC-C	SEDIMENTATION BASIN DRAIN PUMPS NO. 2 DISCONNECT SWITCH
P-EF521	1"	2#12, 1#12GND	EXHAUST FAN EF-52-1 DISCONNECT SWITCH	EXHAUST FAN EF-52-1
P-HP521	1"	2#10, 1#10GND	AIR COOLED HEAT PUMP DISCONNECT SWITCH NO. 1	AIR COOLED HEAT PUMP NO. 1 HP-52-1
P-HP522	1"	2#10, 1#10GND	AIR COOLED HEAT PUMP DISCONNECT SWITCH NO. 2	AIR COOLED HEAT PUMP NO. 2 HP-52-2
P-HP523	1"	2#10, 1#10GND	AIR COOLED HEAT PUMP DISCONNECT SWITCH NO. 3	AIR COOLED HEAT PUMP NO. 3 HP-52-3
P-HP524	1"	2#10, 1#10GND	AIR COOLED HEAT PUMP DISCONNECT SWITCH NO. 4	AIR COOLED HEAT PUMP NO. 4 HP-52-4

CONDUIT NO	SIZE		DESTINATION	
	CONDUIT	CONDUCTOR	FROM	TO
P-HP525	1"	2#10, 1#10GND	AIR COOLED HEAT PUMP DISCONNECT SWITCH NO. 5	AIR COOLED HEAT PUMP NO. 5 HP-52-5
P-HP526	1"	2#10, 1#10GND	AIR COOLED HEAT PUMP DISCONNECT SWITCH NO. 6	AIR COOLED HEAT PUMP NO. 6 HP-52-6
P-LA	2"	4#2/0, 1#8GND	SWITCHBOARD SWBD-H	PANEL LA
P-LA1	2"	4#2/0, 1#8GND	SWITCHBOARD SWBD-H	PANEL LA-1
P-LP5A	2"	4#2/0, 1#8GND	PANEL LP-5A TRANSFORMER	PANEL LP-5A
P-MOV5220	1"	3#12, 1#12GND	LA1	MOV-5220
P-RSLP10	2"	3#250, 1#4GND	RETURN ACTIVATED SLUDGE PUMP NO. 10 DISCONNECT SWITCH	RETURN ACTIVATED SLUDGE PUMP NO. 10 RSLP-10
P-RSLP6	2"	3#250, 1#4GND	RETURN ACTIVATED SLUDGE PUMP NO. 6 DISCONNECT SWITCH	RETURN ACTIVATED SLUDGE PUMP NO. 6 RSLP-6
P-RSLP7	2"	3#250, 1#4GND	RETURN ACTIVATED SLUDGE PUMP NO. 7 DISCONNECT SWITCH	RETURN ACTIVATED SLUDGE PUMP NO. 7 RSLP-7
P-RSLP8	2"	3#250, 1#4GND	RETURN ACTIVATED SLUDGE PUMP NO. 8 DISCONNECT SWITCH	RETURN ACTIVATED SLUDGE PUMP NO. 8 RSLP-8
P-RSLP9	2"	3#250, 1#4GND	RETURN ACTIVATED SLUDGE PUMP NO. 9 DISCONNECT SWITCH	RETURN ACTIVATED SLUDGE PUMP NO. 9 RSLP-9
P-SCL5	1"	3#12, 1#12GND	MOTOR CONTROL CENTER MCC-H	CLAFIFIER DRIVE NO. 5 SCL-5
P-SCL6	1"	3#12, 1#12GND	MOTOR CONTROL CENTER MCC-H	CLAFIFIER DRIVE NO. 6 SCL-6
P-SCL7	1"	3#12, 1#12GND	MOTOR CONTROL CENTER MCC-H	CLAFIFIER DRIVE NO. 7 SCL-7
P-SCL8	1"	3#12, 1#12GND	MOTOR CONTROL CENTER MCC-H	CLAFIFIER DRIVE NO. 7 SCL-8
P-SCSG5	1"	3#12, 1#12GND	MOTOR CONTROL CENTER MCC-H	SCUM GRINDER NO. 5 SCSG-5
P-SCSG6	1"	3#12, 1#12GND	MOTOR CONTROL CENTER MCC-H	SCUM GRINDER NO. 6 SCSG-6
P-SCSG7	1"	3#12, 1#12GND	MOTOR CONTROL CENTER MCC-H	SCUM GRINDER NO. 7 SCSG-7
P-SCSG8	1"	3#12, 1#12GND	MOTOR CONTROL CENTER MCC-H	SCUM GRINDER NO. 8 SCSG-8
P-SCSP5	1"	3#12, 1#12GND	MOTOR CONTROL CENTER MCC-H	SCUM PUMP NO. 5 SCSP-5
P-SCSP6	1"	3#12, 1#12GND	MOTOR CONTROL CENTER MCC-H	SCUM PUMP NO. 6 SCSP-6
P-SCSP7	1"	3#12, 1#12GND	MOTOR CONTROL CENTER MCC-H	SCUM PUMP NO. 7 SCSP-7
P-SCSP8	1"	3#12, 1#12GND	MOTOR CONTROL CENTER MCC-H	SCUM PUMP NO. 8 SCSP-8
P-SF521	1"	2#12, 1#12GND	SUPPLY FAN SF-52-1 DISCONNECT SWITCH	SUPPLY FAN SF-52-1
P-SHPP	1"	3#4, 1#10GND	SWITCHBOARD SWBD-H	PANEL SH-PP
P-SP4	1"	3#12, 1#12GND	MOTOR CONTROL CENTER MCC-H	SUMP PUMP NO. 3 SP-4
P-SP5	1"	3#12, 1#12GND	MOTOR CONTROL CENTER MCC-H	THICKENED SLUDGE PUMP GALLERY SUMP PUMP NO. 5 SP-5
P-STDP2	1"	3#8, 1#10GND	SEDIMENTATION BASIN DRAIN PUMPS NO. 2 DISCONNECT SWITCH	SEDIMENTATION BASIN DRAIN PUMPS NO. 2 STDP-2
P-VFDRSLP10	2"	3#250, 1#4GND	SWITCHBOARD SWBD-H	RETURN ACTIVATED SLUDGE PUMP NO. 10 VFD
P-VFDRSLP6	2"	3#250, 1#4GND	SWITCHBOARD SWBD-H	RETURN ACTIVATED SLUDGE PUMP NO. 6 VFD
P-VFDRSLP7	2"	3#250, 1#4GND	SWITCHBOARD SWBD-H	RETURN ACTIVATED SLUDGE PUMP NO. 7 VFD
P-VFDRSLP8	2"	3#250, 1#4GND	SWITCHBOARD SWBD-H	RETURN ACTIVATED SLUDGE PUMP NO. 8 VFD
P-VFDRSLP9	2"	3#250, 1#4GND	SWITCHBOARD SWBD-H	RETURN ACTIVATED SLUDGE PUMP NO. 9 VFD
P-XFRMLP5	1"	3#4, 1#8GND	SWITCHBOARD SWBD-H	PANEL LP-5 TRANSFORMER
P-XFRMLP5A	1"	3#4, 1#8GND	SWITCHBOARD SWBD-H	PANEL LP-5A TRANSFORMER

REV.	DATE	DESCRIPTION	BY
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SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONTRACT No. 30109
EAST BANK STP - PHASE 1A
SECONDARY TREATMENT UPGRADE

Infinity Engineering Consultants, LLC — IEC Project No 23-023
Civil ∞ Structural ∞ Mechanical ∞ Electrical ∞ Marine ∞ Transportation
Metairie, LA www.infinityec.com 504-304-0548

STATE OF LOUISIANA — JOHN C. LAWRENCE — REG. NO. 27941 — REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
4-29-2025

WRIGHT-PIERCE
407.906.1776 | www.wright-pierce.com
601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751

ELECTRICAL CABLE SCHEDULE

DR. G. LALA	
TRC.	
CK. J. LAWRENCE	
AP. J. LAWRENCE	
SCALE: AS NOTED	
DATE: APRIL 2025	SET NO. SHEET NO. 91 of 92

E-99-901

DWG. No. 12221-W-33

PROJECT NO: 21163 | DESIGNED BY: M. TORRES
SUBMISSION: CONTRACT DRAWINGS
CAD COORD: A.COUTURE

LAST SAVED BY: GLALA 4/24/2025 4:08 PM
P:\PROJECTS\23-023 WRIGHT-PIERCE - SWB EBWWTP ELECTRICAL MODIFICATIONS\DRAWINGS\PHASE 1A\PRODUCTION DRAWINGS\ELECTRICAL\ELEC CABLE SCH.DWG | 4/29/2025 7:56:22 AM | GLALA
EDULE | 1:10.12364677 | — |

CONDUIT NO	SIZE		DESTINATION	
	CONDUIT	CONDUCTOR	FROM	TO
	3/4"	4#14	CP-NR	TIT-5201
	3/4"	1#16TC-POS	CP-NR	TIT-5201
	3/4"	4#14	CP-NR	TIT-5202
	3/4"	1#16TC-POS	CP-NR	TIT-5202
	3/4"	4#14	CP-NR	LSH-5202
	3/4"	4#14	CP-NR	FIT-5210
	3/4"	2#16TC-POS	CP-NR	FIT-5210
	3/4"	4#14	CP-NR	FIT-5211
	3/4"	2#16TC-POS	CP-NR	FIT-5211
	3/4"	4#14	CP-NR	FIT-5212
	3/4"	2#16TC-POS	CP-NR	FIT-5212
	3/4"	4#14	CP-NR	FIT-5213
	3/4"	2#16TC-POS	CP-NR	FIT-5213
	3/4"	4#14	CP-NR	FIT-5214
	3/4"	2#16TC-POS	CP-NR	FIT-5214
	3/4"	4#14	CP-NR	LIT-5021
	3/4"	2#16TC-POS	CP-NR	LIT-5021
	3/4"	4#14	CP-NR	LIT-5022
	3/4"	2#16TC-POS	CP-NR	LIT-5022
	3/4"	4#14	CP-NR	LIT-5023
	3/4"	2#16TC-POS	CP-NR	LIT-5023
	3/4"	4#14	CP-NR	FIT-5220
	3/4"	2#16TC-POS	CP-NR	FIT-5220
	3/4"	10#14	CP-NR	MOV-5220
	1"	3#16TC-POS	CP-NR	MOV-5220
	3/4"	14#14	CP-NR	VFD-5210
	1"	4#16TC-POS	CP-NR	VFD-5210
	3/4"	14#14	RSLP-6 JB	LCS-RSLP-6
	3/4"	4#14	RSLP-6 JB	TSH-5210
	3/4"	4#14	RSLP-6 JB	LSH-5210
	3/4"	14#14	CP-NR	VFD-5211
	1"	4#16TC-POS	CP-NR	VFD-5211
	3/4"	14#14	RSLP-7 JB	LCS-RSLP-7
	3/4"	4#14	RSLP-7 JB	TSH-5211
	3/4"	4#14	RSLP-7 JB	LSH-5211
	3/4"	14#14	CP-NR	VFD-5212
	1"	4#16TC-POS	CP-NR	VFD-5212
	3/4"	14#14	RSLP-8 JB	LCS-RSLP-8
	3/4"	4#14	RSLP-8 JB	TSH-5212
	3/4"	4#14	RSLP-8 JB	LSH-5212
	3/4"	14#14	CP-NR	VFD-5213
	1"	4#16TC-POS	CP-NR	VFD-5213
	3/4"	14#14	RSLP-9 JB	LCS-RSLP-9
	3/4"	4#14	RSLP-9 JB	TSH-5213
	3/4"	4#14	RSLP-9 JB	LSH-5213
	3/4"	14#14	CP-NR	VFD-5214

CONDUIT NO	SIZE		DESTINATION	
	CONDUIT	CONDUCTOR	FROM	TO
	1"	4#16TC-POS	CP-NR	VFD-5214
	3/4"	14#14	RSLP-10 JB	LCS-RSLP-10
	3/4"	4#14	RSLP-10 JB	TSH-5214
	3/4"	4#14	RSLP-10 JB	LSH-5214
	1"	18#14	CP-NR	MS-5011
	3/4"	12#14	SCL-6 JB	LCS-SCL-6
	3/4"	4#14	SCL-6 JB	TSH-5011
	3/4"	4#14	SCL-6 JB	WSH-5011
	3/4"	4#14	SCL-6 JB	WSHH-5011
	1"	18#14	CP-NR	MS-5012
	3/4"	12#14	SCL-7 JB	LCS-SCL-7
	3/4"	4#14	SCL-7 JB	TSH-5012
	3/4"	4#14	SCL-7 JB	WSH-5012
	3/4"	4#14	SCL-7 JB	WSHH-5012
	1"	18#14	CP-NR	MS-5013
	3/4"	12#14	SCL-8 JB	LCS-SCL-8
	3/4"	4#14	SCL-8 JB	TSH-5013
	3/4"	4#14	SCL-8 JB	WSH-5013
	3/4"	4#14	SCL-8 JB	WSHH-5013
	3/4"	14#14	CP-NR	MS-5235
	1"	16#14	MS-5235	SCSG-6 JB
	3/4"	12#14	SCSG-6 JB	LCS-SCSG-6
	3/4"	4#14	SCSG-6 JB	TSH-5235
	3/4"	14#14	CP-NR	MS-5236
	1"	16#14	MS-5236	SCSG-7 JB
	3/4"	12#14	SCSG-7 JB	LCS-SCSG-7
	3/4"	4#14	SCSG-7 JB	TSH-5236
	3/4"	14#14	CP-NR	MS-5237
	1"	16#14	MS-5237	SCSG-8 JB
	3/4"	12#14	SCSG-8 JB	LCS-SCSG-8
	3/4"	4#14	SCSG-8 JB	TSH-5237
	1"	16#14	CP-NR	MS-5231
	3/4"	12#14	SCSP-6 JB	LCS-SCSP-6
	3/4"	4#14	SCSP-6 JB	TSH-5231
	3/4"	4#14	SCSP-6 JB	LSH-5231
	1"	16#14	CP-NR	MS-5232
	3/4"	12#14	SCSP-7 JB	LCS-SCSP-7
	3/4"	4#14	SCSP-7 JB	TSH-5232
	3/4"	4#14	SCSP-7 JB	LSH-5232
	1"	16#14	CP-NR	MS-5233
	3/4"	12#14	SCSP-8 JB	LCS-SCSP-8
	3/4"	4#14	SCSP-8 JB	TSH-5233
	3/4"	4#14	SCSP-8 JB	LSH-5233
	1"	5#16TC-POS	CP_NR	WEATHER STATION
C41	1"	20#14	MS-5231	Secondary Clarifier Grease/Scum Pump No.6
C42	1"	20#14	MS-5232	Secondary Clarifier Grease/Scum Pump No.7

CONDUIT NO	SIZE		DESTINATION	
	CONDUIT	CONDUCTOR	FROM	TO
C43	1"	20#14	MS-5233	Secondary Clarifier Grease/Scum Pump No.8
C44	1"	24#14	MS-5203	Pump Room Sump Pump No.1
C45	1"	24#14	MS-5204	Pump Room Sump Pump No.2
C50	1"	22#14	VFD-5210	Return Sludge Pump No.6
C51	1"	22#14	VFD-5211	Return Sludge Pump No.7
C52	1"	22#14	VFD-5212	Return Sludge Pump No.8
C53	1"	22#14	VFD-5213	Return Sludge Pump No.9
C54	1"	22#14	VFD-5214	Return Sludge Pump No.10
C56	1"	24#14	MS-5011	Grease Scum/Grinder and Pump No.6
C57	1"	24#14	MS-5012	Grease Scum/Grinder and Pump No.7
C58	1"	24#14	MS-5013	Grease Scum/Grinder and Pump No.8
S86	2"	12 fiber OM3	CP-NR	Future SCADA

REV.	DATE	DESCRIPTION	BY
△			
△			
△			

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INSTRUMENT CABLE SCHEDULE

DR. G. LALA	E-99-903
TRC.	
CK. J. LAWRENCE	
AP. J. LAWRENCE	DWG. No. 12221-W-33
PROJECT NO: 21163	DESIGNED BY: M. TORRES
SUBMISSION: CONTRACT DRAWINGS	SCALE: AS NOTED
CAD COORD: A.COUTURE	DATE: APRIL 2025
SET NO.	SHEET NO. 92 of 92

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