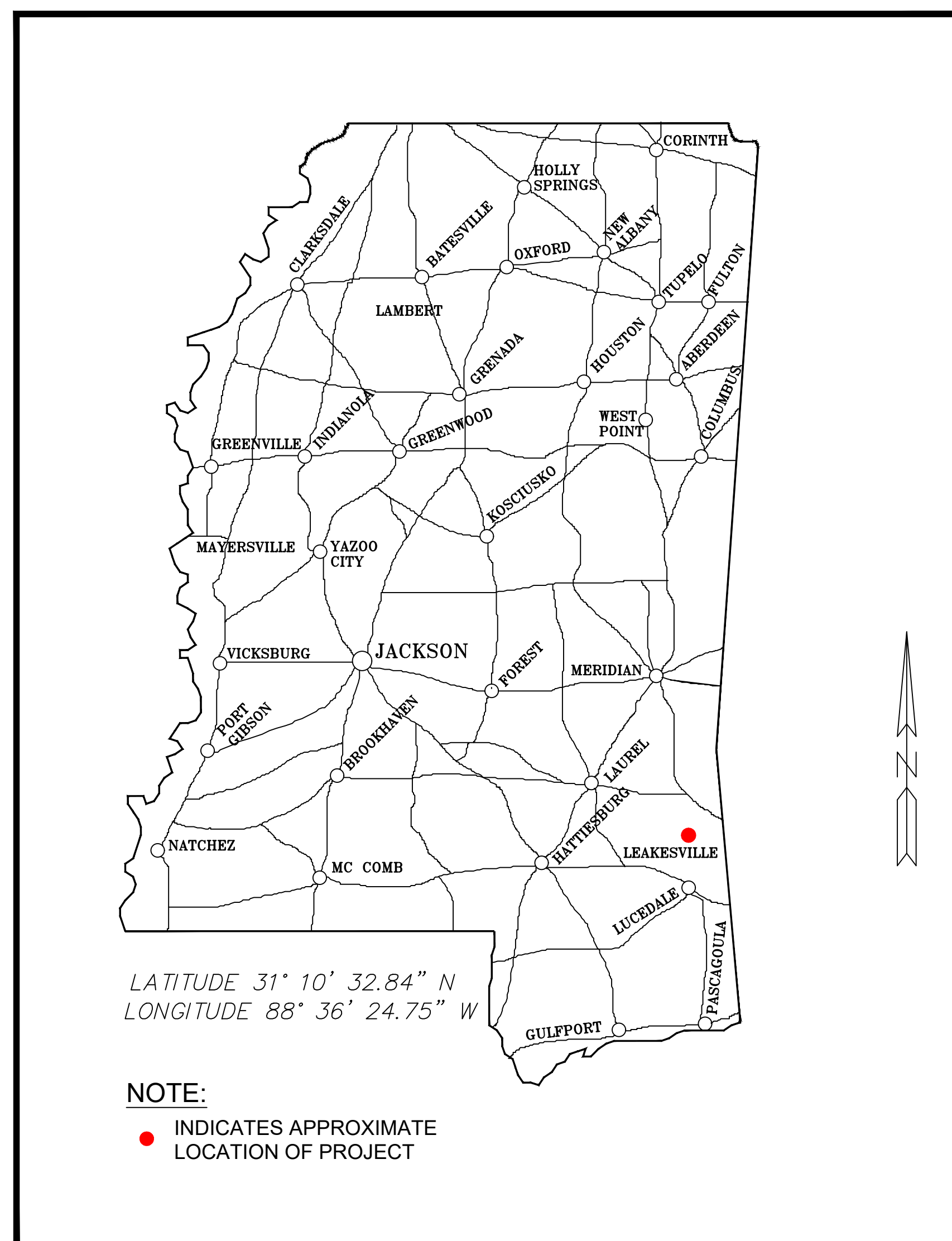
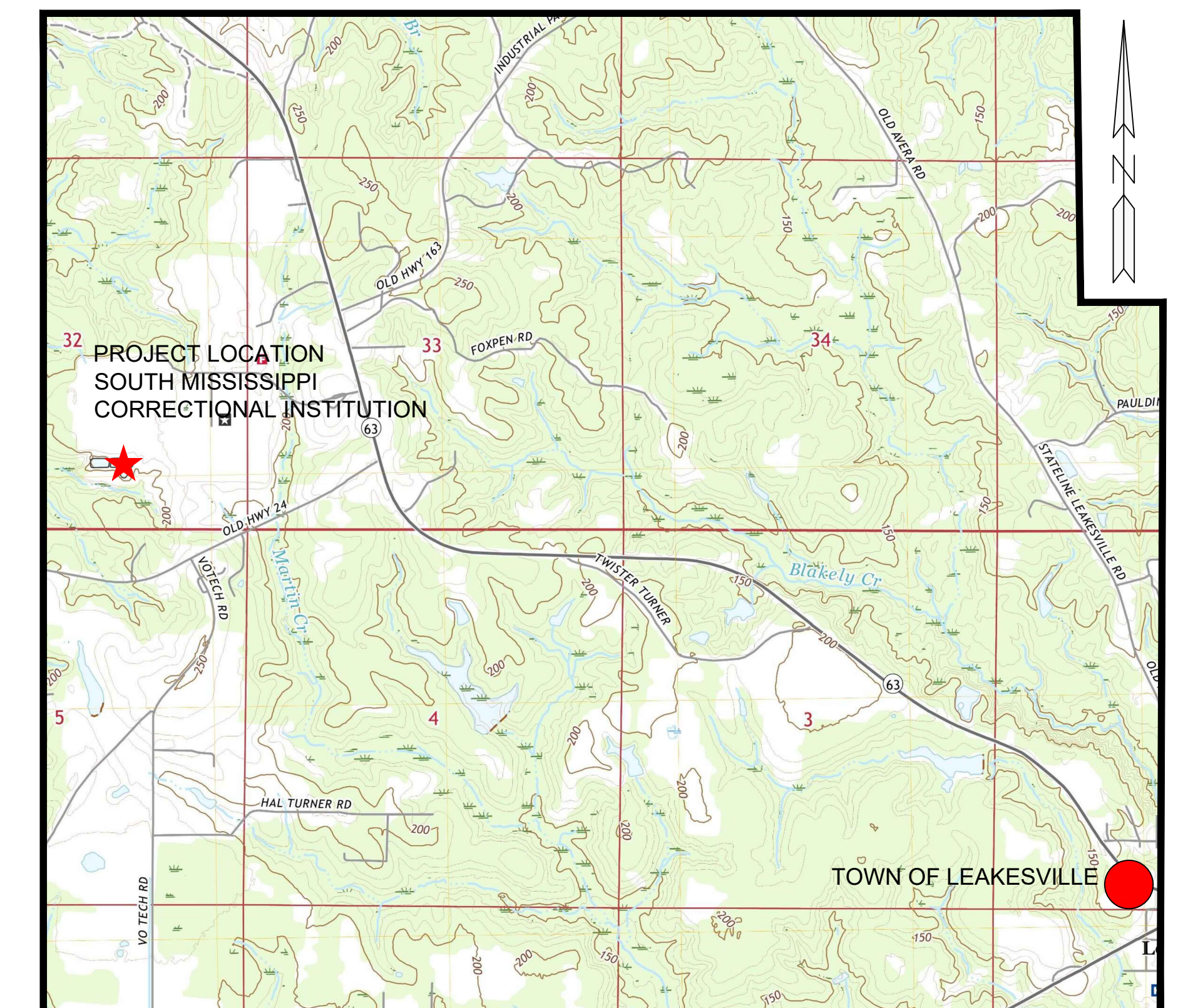


GS#323-024 ARPA INFR. - WASTE CENT. TREATMENT SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION LEAKESVILLE, MISSISSIPPI



LOCATION MAP
NOT TO SCALE



VICINITY MAP
SCALE: NOT TO SCALE



W.L. BURLE ENGINEERS, P.A.

GREENE COUNTY, MISSISSIPPI

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GENERAL NOTES:

- EXISTING INFORMATION SHOWN IS BASED UPON W.L. BURLE ENGINEERS, P.A. SURVEY DATED AUGUST 10, 2023.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS OPERATIONS WITH THE OWNER (BUREAU OF BUILDING, GROUNDS AND REAL PROPERTY, MANAGEMENT), AND USING AGENCY (SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION) TO ENSURE ADEQUATE ACCESS TO FACILITIES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TRAFFIC CONTROL WITH THE OWNER AND USING AGENCY THROUGHOUT THE COURSE OF THE PROJECT.
- ALL CONSTRUCTION STAGING OR DEMOLITION, CONSTRUCTION FENCING, REQUIRED CONSTRUCTION AND/OR TEMPORARY DRIVES, AND REQUIRED SITE WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE A TEMPORARY SAFETY FENCING AROUND OPEN EXCAVATIONS THROUGHOUT THE COURSE OF THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LAYOUT OF SAFETY FENCING WITH THE OWNER AND USING AGENCY.
- EXISTING UNDERGROUND INSTALLATIONS, SUCH AS WATER MAINS, GAS MAINS, SANITARY/STORM SEWER LINES, TELEPHONE LINES, POWER LINES, AND BURIED STRUCTURES IN THE VICINITY OF THE WORK AREA ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE PROFESSIONAL IN PREPARING THE DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF UNDERGROUND UTILITY LOCATIONS SHOWN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING AND/OR VERIFYING ALL EXISTING UNDERGROUND INSTALLATIONS AND ASSOCIATED INVERTS OR INSTALLATION DEPTHS, INCLUDING SERVICE CONNECTIONS, IN ADVANCED OF PURCHASING MATERIALS, EXCAVATING OR TRENCHING.
- CONTRACTOR SHALL SAW CUT AND REMOVE EXISTING CONCRETE AND/OR ASPHALT PAVEMENT TO FULL DEPTH ALONG NEAT STRAIGHT LINES.
- ALL TOP ELEVATIONS OF REQUIRED PAVEMENT REPAIRS AND ABUTMENTS SHALL MATCH FLUSH WITH TOP ELEVATIONS OF EXISTING PAVEMENTS.
- ALL BARRICADES, WARNING SIGNS, LIGHTS, TEMPORARY SIGNALS, OTHER PROTECTIVE DEVICES, FLAGGERS AND SIGNALING DEVICES SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS CONTAINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WHICH IS CURRENT AT THE TIME BIDS ARE RECEIVED.
- TEMPORARY STAGING AREAS, CONSTRUCTION DRIVES, TRAFFIC CONTROL OPERATIONS AND DUMPSTER BIN RELOCATION AREAS SHALL BE COORDINATED WITH SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION ADMINISTRATION AND FACILITIES MANAGEMENT PRIOR TO MOBILIZATION OF EQUIPMENT AND MATERIALS.
- CONTRACTOR SHALL REMOVE AND REINSTALL FENCING AS REQUIRED TO COMPLETE THE REQUIRED WORK. ALL FENCING SHALL BE REINSTALLED TO THE SATISFACTION OF THE PROFESSIONAL, USING AGENCY, AND OWNER.
- MISSISSIPPI 811 WILL NOT LOCATE UTILITIES ON SITE. CONTRACTOR SHALL RETAIN THE SERVICES OF A UTILITY LOCATION COMPANY TO LOCATE EXISTING UTILITIES.
- INCLUDED IN THE COST FOR THIS PROJECT, CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHORING/BRACING OF EXISTING UTILITIES ENCOUNTERED IN ALL EXCAVATIONS. ALL UTILITY SHORING/BRACING EFFORTS SHALL BE COORDINATED BY CONTRACTOR WITH CORRESPONDING UTILITY PROVIDERS.
- CONTRACTOR SHALL MAINTAIN AN OPERATIONAL SANITARY SEWER COLLECTION SYSTEM AND TREATMENT PLANT THROUGHOUT THE DURATION OF THE PROJECT.
- NO WASTEWATER SHALL BE DISCHARGED IN NATURAL WATERWAYS, STORM SEWERS, OR ON THE SURFACE. ANY DAMAGE RESULTING FROM PLUGGING LINES OR BYPASS PUMPING SHALL EXCLUSIVELY BE THE RESPONSIBILITY OF CONTRACTOR. ALL PUMPS, PLUGS, HOSES, PIPING, FITTINGS, EQUIPMENT AND NECESSARY SEWER FLOW CONTROL APPURTENANCES SHALL BE PROVIDED AND MAINTAINED BY CONTRACTOR, AT NO ADDITIONAL COST TO OWNER. LIABILITY FOR ANY DAMAGES TO PROPERTY, PUBLIC OR PRIVATE, RESULTING FROM THE ACTIVITIES OF CONTRACTOR, SHALL EXCLUSIVELY BE THE RESPONSIBILITY OF CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED TO EXISTING UNDERGROUND INSTALLATIONS (SUCH AS SEWER LINES, GAS MAINS, WATER MAINS, ETC.) AS A RESULT OF CONSTRUCTION OPERATIONS OR EXCAVATIONS. ANY SUCH REPAIRS SHALL BE TO THE SATISFACTION OF PROFESSIONAL AND THE UTILITY OWNER AT NO ADDITIONAL COST TO OWNER.
- CONTRACTOR SHALL REPAIR ALL INTENTIONALLY AND UNINTENTIONALLY DAMAGED AREAS TO AS-BUILT CONDITIONS, AT NO ADDITIONAL COST TO OWNER.
- CONTRACTOR SHALL NOT BE PAID FOR ANY ADDITIONAL MOBILIZATION(S)/DEMOBILIZATION(S) TO SITE(S) FOR ANY REASON.
- PIPING CONFLICTS SHALL BE RESOLVED ACCORDING TO THE FOLLOWING PRECEDENCE
 - PROCESS PIPING (GRAVITY). PROCESS PIPING IS DEFINED AS PIPING BETWEEN TREATMENT PROCESSES, INCLUDING REQUIRED INFLUENT AND EFFLUENT PUMP STATIONS
 - GRAVITY SEWER
 - PROCESS PRESSURE PIPING
 - NON-PROCESS SEWER PRESSURE PIPING
 - NON-POTABLE WATER PIPING
 - POTABLE WATER PIPING.
- ALL PIPING BENDS SHALL BE RESTRAINED.

WORK SEQUENCE - BASE BID

- PRIOR TO BEGINNING WORK, CONTRACTOR SHALL COMPLETE MISSISSIPPI DEPARTMENT OF CORRECTIONS (MDOC) VENDOR-RELEASE OF INFORMATION FORMS.
- PREPARE A SMALL CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
- HAVE ALL UTILITIES LOCATED WITHIN THE LIMITS OF EXCAVATIONS.
- INSTALL REQUIRED GRAVITY SEWER PIPING AND MANHOLES BETWEEN THE WEST LAGOON AND THE EXISTING INFLUENT PUMP STATION. THIS INCLUDES MANHOLES MH#1, MH#2, MH#3, AND MH#4.
- INSTALL REQUIRED GRAVITY SEWER PIPING AND MANHOLE MH#3A BETWEEN EXISTING MANHOLES MH#3 AND MH#4.
- RELOCATE THE TWO (2) EXISTING AERATORS IN THE EAST LAGOON TO THE WEST LAGOON.
- PUMP BIOSOLIDS FROM EAST LAGOON TO WEST LAGOON.
- ONCE ALL OF THE ABOVE-MENTIONED WORK HAS BEEN COMPLETED TO THE SATISFACTION OF THE PROFESSIONAL, ALL REMAINING WORK MAY BEGIN.
- ONCE ALL PROCESS EQUIPMENT, PIPING, AND ELECTRICAL WORK HAS BEEN COMPLETED, TREATED EFFLUENT FROM THE EXISTING EFFLUENT PUMP STATION SHALL BE DIRECTED TO THE NEWLY CONSTRUCTED COARSE SCREEN.
- ONCE ALL PROCESS EQUIPMENT AND PUMP STATIONS HAVE BEEN ADJUSTED AND INSTALLATIONS HAVE BEEN APPROVED BY THE EQUIPMENT MANUFACTURER WHICH SUPPLIED THE EQUIPMENT AND/OR PUMPS, THE CONTRACTOR SHALL PUMP ALL MATERIAL IN THE EXISTING OXIDATION DITCH AND INTEGRAL CLARIFIER TO THE NEWLY CONSTRUCTED COARSE SCREEN AND ALL RAW SEWAGE FLOW SHALL BE DIRECTED TO THE NEW TREATMENT PLANT .

WORK SEQUENCE - ADD ALTERNATE NO. 1

- PRIOR TO BEGINNING WORK, CONTRACTOR SHALL COMPLETE MISSISSIPPI DEPARTMENT OF CORRECTIONS (MDOC) VENDOR-RELEASE OF INFORMATION FORMS.
- PREPARE A SMALL CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
- HAVE ALL UTILITIES LOCATED WITHIN THE LIMITS OF EXCAVATIONS.
- PUMP/REMOVE ALL WATER AND/OR BIOSOLIDS FROM WEST LAGOON TO THE EAST LAGOON.
- REPLACE THE LINER IN THE WEST LAGOON.
- INSTALL REQUIRED GRAVITY SEWER PIPING AND MANHOLES BETWEEN THE WEST LAGOON AND THE EXISTING INFLUENT PUMP STATION. THIS INCLUDES MANHOLES MH#1, MH#2, MH#3, AND MH#4.
- INSTALL REQUIRED GRAVITY SEWER PIPING AND MANHOLE MH#3A BETWEEN EXISTING MANHOLES MH#3 AND MH#4.
- RELOCATE THE TWO (2) EXISTING AERATORS IN THE EAST LAGOON TO THE WEST LAGOON.
- ONCE ALL OF THE ABOVE-MENTIONED WORK HAS BEEN COMPLETED TO THE SATISFACTION OF THE PROFESSIONAL, ALL REMAINING WORK MAY BEGIN.
- ONCE ALL PROCESS EQUIPMENT, PIPING, AND ELECTRICAL WORK HAS BEEN COMPLETED, TREATED EFFLUENT FROM THE EXISTING EFFLUENT PUMP STATION SHALL BE DIRECTED TO THE NEWLY CONSTRUCTED COARSE SCREEN.
- ONCE ALL PROCESS EQUIPMENT AND PUMP STATIONS HAVE BEEN ADJUSTED AND INSTALLATIONS HAVE BEEN APPROVED BY THE EQUIPMENT MANUFACTURER WHICH SUPPLIED THE EQUIPMENT AND/OR PUMPS, THE CONTRACTOR SHALL PUMP ALL MATERIAL IN THE EXISTING OXIDATION DITCH AND INTEGRAL CLARIFIER TO THE NEWLY CONSTRUCTED COARSE SCREEN AND ALL RAW SEWAGE FLOW SHALL BE DIRECTED TO THE NEW TREATMENT PLANT .

WORK SEQUENCE - ADD ALTERNATE NO. 2

- PRIOR TO BEGINNING WORK, CONTRACTOR SHALL COMPLETE MISSISSIPPI DEPARTMENT OF CORRECTIONS (MDOC) VENDOR-RELEASE OF INFORMATION FORMS.
- PREPARE A SMALL CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
- HAVE ALL UTILITIES LOCATED WITHIN THE LIMITS OF EXCAVATIONS.
- PUMP/REMOVE ALL WATER AND/OR BIOSOLIDS FROM WEST LAGOON AND DISPOSE OF OFF-SITE AT A PERMITTED SOLID WASTE DISPOSAL FACILITY.
- REMOVE ALL BIOSOLIDS FROM THE EAST LAGOON AND DISPOSE OF OFF-SITE AT A PERMITTED SOLID WASTE DISPOSAL FACILITY.
- REPLACE THE LINER IN THE WEST LAGOON.
- INSTALL REQUIRED GRAVITY SEWER PIPING AND MANHOLES BETWEEN THE WEST LAGOON AND THE EXISTING INFLUENT PUMP STATION. THIS INCLUDES MANHOLES MH#1, MH#2, MH#3, AND MH#4.
- INSTALL REQUIRED GRAVITY SEWER PIPING AND MANHOLE MH#3A BETWEEN EXISTING MANHOLES MH#3 AND MH#4.
- RELOCATE THE TWO (2) EXISTING AERATORS IN THE EAST LAGOON TO THE WEST LAGOON.
- ONCE ALL OF THE ABOVE-MENTIONED WORK HAS BEEN COMPLETED TO THE SATISFACTION OF THE PROFESSIONAL, ALL REMAINING WORK MAY BEGIN.
- ONCE ALL PROCESS EQUIPMENT, PIPING, AND ELECTRICAL WORK HAS BEEN COMPLETED, TREATED EFFLUENT FROM THE EXISTING EFFLUENT PUMP STATION SHALL BE DIRECTED TO THE NEWLY CONSTRUCTED COARSE SCREEN.
- ONCE ALL PROCESS EQUIPMENT AND PUMP STATIONS HAVE BEEN ADJUSTED AND INSTALLATIONS HAVE BEEN APPROVED BY THE EQUIPMENT MANUFACTURER WHICH SUPPLIED THE EQUIPMENT AND/OR PUMPS, THE CONTRACTOR SHALL PUMP ALL MATERIAL IN THE EXISTING OXIDATION DITCH AND INTEGRAL CLARIFIER TO THE NEWLY CONSTRUCTED COARSE SCREEN AND ALL RAW SEWAGE FLOW SHALL BE DIRECTED TO THE NEW TREATMENT PLANT .

STRUCTURAL GENERAL NOTES

DESIGN CRITERIA :

- BUILDING CODE AND DESIGN STANDARDS
 - A. 2018 INTERNATIONAL BUILDING CODE
 - B. AISC MANUAL OF STEEL CONSTRUCTION, FIFTEENTH EDITION
 - C. ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

GENERAL NOTES :

- BEFORE WORK BEGINS, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH DIMENSIONS SHOWN ON THE CIVIL DRAWINGS. IF ANY DISCREPANCIES EXIST, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CIVIL ENGINEER AND WORK SHALL NOT BEGIN UNTIL THE DISCREPANCY IS RESOLVED.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL, FABRICATION AND CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CIVIL ENGINEER OF ANY EXISTING CONDITIONS WHICH ARE IN CONFLICT WITH THE CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL BE BASED ON FIELD VERIFIED CONDITIONS AND DIMENSIONS ONLY.
- THE DOCUMENTS REPRESENT STRUCTURAL SYSTEMS AND COMPONENTS IN THEIR FINAL AND FINISHED STATE. THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- NOTES AND SPECIFIC DETAILS SHOWN ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER FOR CLARIFICATION IF ANY QUESTION OR DISCREPANCY EXISTS.

FOUNDATION NOTES :

- THE SUBSURFACE INFORMATION AND FOUNDATION DESIGN ARE BASED ON A REPORT PREPARED BY W.L. BURLE ENGINEERS, P. A.:

GEOTECHNICAL INVESTIGATION AND ENGINEERING REPORT FOR
GSH 323-024
ARPA INFR. - WASTE CENT. TREATMENT
SOUTH MISSISSIPPI CORRECTIONAL INSTITUTE
LEAKSVILLE, MISSISSIPPI
DATED
AUGUST 19, 2021

- PER THE GEOTECHNICAL REPORT, THE CONTRACTOR SHALL RETAIN THE SERVICES OF A DEWATERING EXPERT PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, AND OPERATE AT HIS EXPENSE ALL NECESSARY PUMPS, WELL POINTS, DEEP WELLS, AND/OR OTHER EQUIPMENT REQUIRED FOR DEWATERING THE VARIOUS PARTS OF THE WORK, AND FOR MAINTAINING THE FOUNDATIONS, EMBANKMENTS AND OTHER PARTS OF THE WORK, FREE FROM WATER AS REQUIRED FOR CONSTRUCTION.
- ALLOWABLE SOIL BEARING PRESSURE - 1700 PSF
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION, SHORING, UNDERPINNING, BRACING, ISOLATION, ETC. OF ALL EXISTING CONDITIONS AS REQUIRED TO PREVENT ANY DISTURBANCE TO EXISTING BUILDINGS AND/OR STRUCTURES OR EXISTING CONDITIONS AS A RESULT OF THIS WORK.
- GENERAL CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER A MINIMUM OF 48 HOURS PRIOR TO PLACEMENT OF CONCRETE.
- PLACEMENT OF ALL CONCRETE INCLUDING THE CHANNELIZING INTERIOR CONCRETE OF THE CLARIFIER SHALL BE IN PLACE BEFORE EXTERIOR BACKFILLING BEGINS.

CONCRETE NOTES :

- CONCRETE MIX REQUIREMENTS:
 - A. MIN. COMPRESSIVE STRENGTH (FC) @ 28 DAYS 4500 PSI
 - B. AIR ENTRAINED 6.0%
- THE CONTRACTOR SHALL SUBMIT ALL CONSTRUCTION JOINT PROPOSED LOCATIONS PRIOR TO CONSTRUCTION. ONLY APPROVED LOCATIONS WILL BE ACCEPTABLE FOR CONSTRUCTION JOINT LOCATIONS.
- PROVIDE WATERSTOPS AT ALL EXPANSION, CONTRACTION, AND CONSTRUCTION JOINTS IN ALL LIQUID RETAINING STRUCTURES.

REINFORCING STEEL NOTES:

- REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60. REINFORCING BARS ARE NOT TO BE WELDED.
- CONTRACTOR SHALL PROVIDE NECESSARY REINFORCING ACCESSORIES IN ORDER TO HOLD BARS IN THE PROPER POSITION. PROVIDE CORNER BARS OF THE SAME SIZE AND NUMBER AS HORIZONTAL BARS AT ALL CORNERS AND T INTERSECTIONS.
- LAP SPLICES SHALL BE A CLASS B TENSION LAP, UNLESS NOTED OTHERWISE.
- CONCRETE COVER FOR REINFORCING SHALL BE AS INDICATED IN THE DRAWINGS OR 2" CLEAR IF NOT INDICATED.

STRUCTURAL STEEL (STAIRS AND PLATFORMS):

- ALL MAIN STRUCTURAL MEMBERS AND MISCELLANEOUS STEEL COMPONENTS SHALL CONFORM TO 304 - ASTM A-240 STAINLESS STEEL.
- STAINLESS STEEL BOLTS FOR CONNECTIONS SHALL CONFORM TO ASTM SPECIFICATION F594 (UNLESS NOTED OTHERWISE).
- ANCHOR BOLTS SHALL STAINLESS BE STEEL.
- ALL CONNECTIONS FOR STRUCTURAL STEEL SHALL BE SUFFICIENT TO FULLY DEVELOP THE CONNECTED MEMBERS.
- SUBMIT COMPLETE SHOP DRAWINGS TO ENGINEER FOR APPROVAL. DRAWINGS SHALL INDICATED THE PROFILES, SIZES, SPACING, CAMBER, ASTM GRADE, AND LOCATIONS FOR ALL STRUCTURAL MEMBERS, CONNECTIONS, ATTACHMENTS AND FASTENERS. INCLUDE SUPPLEMENTARY MEMBERS AND PARTS TO COMPLETE STRUCTURAL STEEL WORK, MISCELLANEOUS STEEL AND ANGLES FOR FRAMED OPENINGS AND HEADED SHEAR CONNECTORS.
- SUBMIT WELDER'S QUALIFICATIONS WHICH INDICATE THAT THE WELDER HAS AWS QUALIFICATIONS FOR THE INTENDED WORK WITHIN THE PREVIOUS 12 MONTHS.

STAINLESS STEEL BAR GRATING:

- ALL BAR GRATING SHALL BE: STANDARD-DUTY WELDED, 304 ASTM A-240 STAINLESS STEEL, 1-1/4" X 1/8" RECTANGULAR BAR SECTIONS, BY MCNICHOLS OR APPROVED EQUAL.
- GRATING TO BEAR ON STEEL ARMORED NOTCH IN CONCRETE AS DETAILED IN THE PLANS OR STEEL ANGLES CAPABLE OF SUPPORTING THE ANTICIPATED LOADING ATTACHED TO CONCRETE. MINIMUM LIVE LOAD FOR GRATING AND BEAM DESIGN IS 60 POUNDS PER SQUARE FOOT. GRATING SUPPLIER TO SUBMIT SHOP DRAWINGS OF GRATING SECTIONS FOR REVIEW BY THE PROJECT ENGINEER.

FIBER VOIDS:

- SUBMIT MANUFACTURER'S DATA FOR FIBER VOIDS. FIBER VOIDS SHALL BE BY SAVWAY CARTON FORMS, INC., SUREVOID PRODUCTS, INC., OR APPROVED EQUAL, AND BE OF THE SIZE INDICATED ON THE DRAWINGS. FORMS SHALL BE OF THE TYPE THAT ARE IMPREGNATED WITH PARAFFIN AND LAMINATED WITH MOISTURE RESISTANT ADHESIVE.
- FIBER VOIDS SHALL BE DESIGNED TO SUPPORT NOT LESS THAN 1,000 POUNDS PER SQUARE FOOT. STORE FIBER VOIDS ABOVE GROUND LEVEL AND IN A DRY LOCATION. FIBER VOIDS MUST BE KEPT DRY UNTIL CONCRETE IS POURED.



GSH323-024 ARPA INFR. - WASTE
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SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION
LEAKESVILLE, MISSISSIPPI

Burle Proj. No.:

08194-1-0122

File Name:
C-101 - DRAWING INDEX &
GENERAL NOTES.dwg

Date: 04/29/2024

Scale: N.T.S.

Drawn by: MJJ/JRG

Checked: DTM

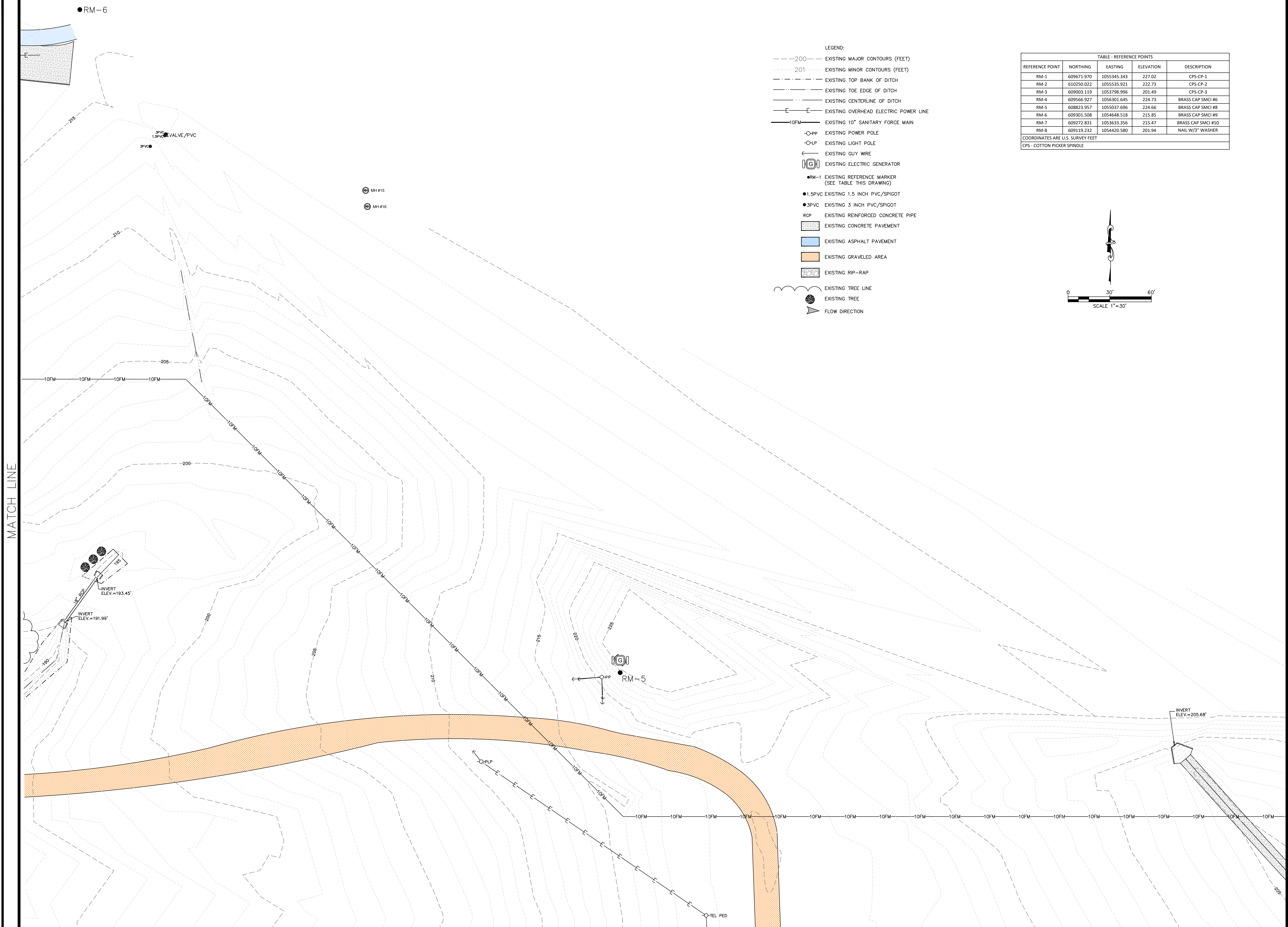
Revisions:
6/18/2024
ADDENDUM 3

Revisions:

Revisions:

DRAWING INDEX &
GENERAL NOTES

C-101
Drawing Number



GS#323-024 ARPA INFR. - WASTE
CENT. TREATMENT
SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION
LEAKESVILLE, MISSISSIPPI

Burle Proj. No.:
08194-1-0122

File Name:
C-103 EXISTING CONDITIONS AND
REQUIRED DEMOLITION.DWG

Date: 04/29/2024

Scale: 1"=30'

Drawn by: MJJ/JRG

Checked:	DTM
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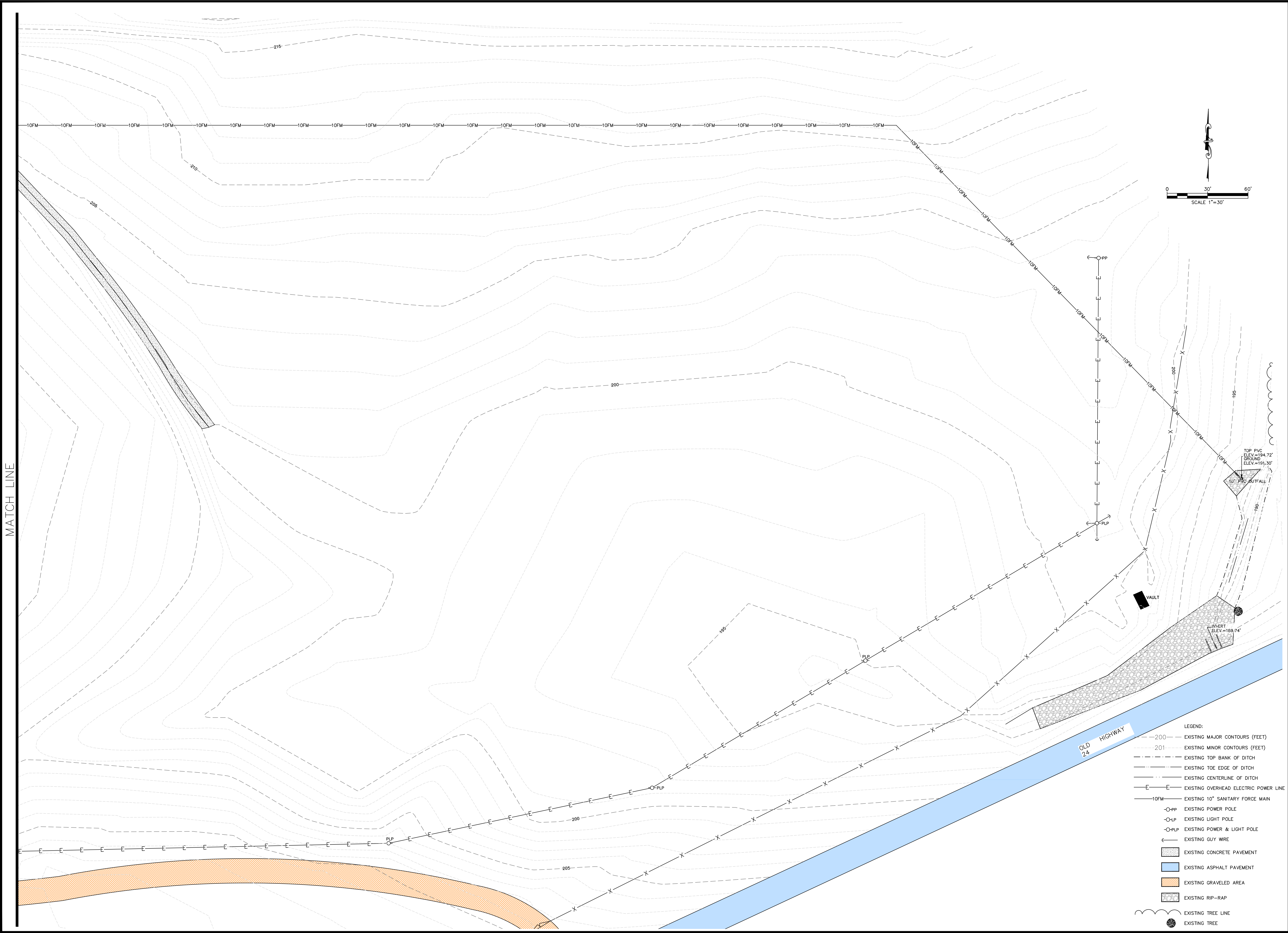
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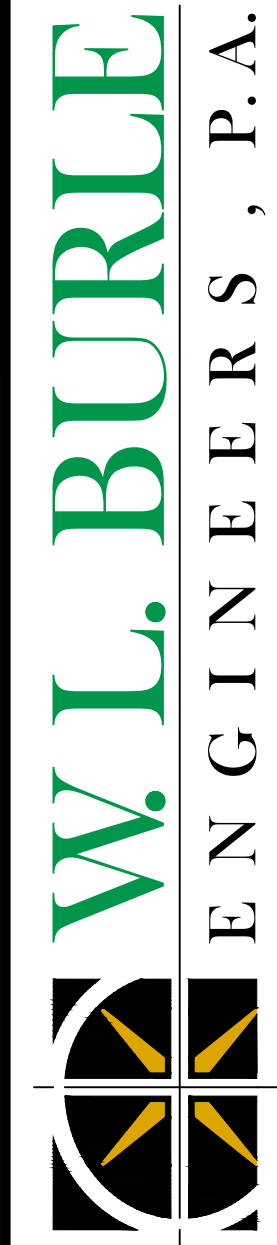
Revisions:

PLAN VIEW -
EXISTING CONDITIONS
AND REQUIRED DEMOLITION

MATCH LINE



- LEGEND:
- 200--- EXISTING MAJOR CONTOURS (FEET)
 - 201--- EXISTING MINOR CONTOURS (FEET)
 - - - - - EXISTING TOP BANK OF DITCH
 - - - - - EXISTING TOE EDGE OF DITCH
 - - - - - EXISTING CENTERLINE OF DITCH
 - - - - - EXISTING OVERHEAD ELECTRIC POWER LINE
 - 10FM--- EXISTING 10" SANITARY FORCE MAIN
 - PP EXISTING POWER POLE
 - LP EXISTING LIGHT POLE
 - PLP EXISTING POWER & LIGHT POLE
 - ← EXISTING GUY WIRE
 - [Pattern] EXISTING CONCRETE PAVEMENT
 - [Pattern] EXISTING ASPHALT PAVEMENT
 - [Pattern] EXISTING GRAVELED AREA
 - [Pattern] EXISTING RIP-RAP
 - ~~~~~ EXISTING TREE LINE
 - EXISTING TREE



W.L. BURLE
ENGINEERS, P.A.
111 South Walnut Street
Greenville, MS 38701



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CENT. TREATMENT
SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION
LEAKESVILLE, MISSISSIPPI

Burle Proj. No.:
08194-1-0122

File Name: C-104 PLAN VIEW -
EXISTING CONDITIONS AND
REQUIRED DEMOLITION

Date: 04/24/2024

Scale: 1"=30'

Drawn by: MJJ/JRG

Checked: DTM

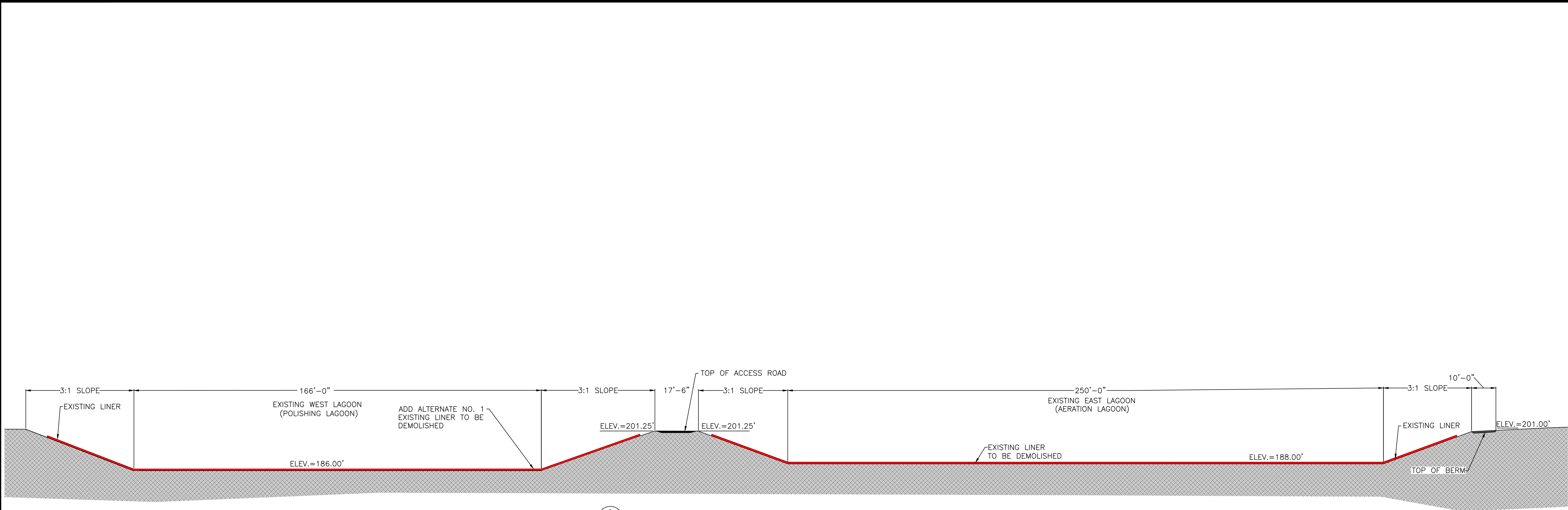
Revisions:

Revisions:

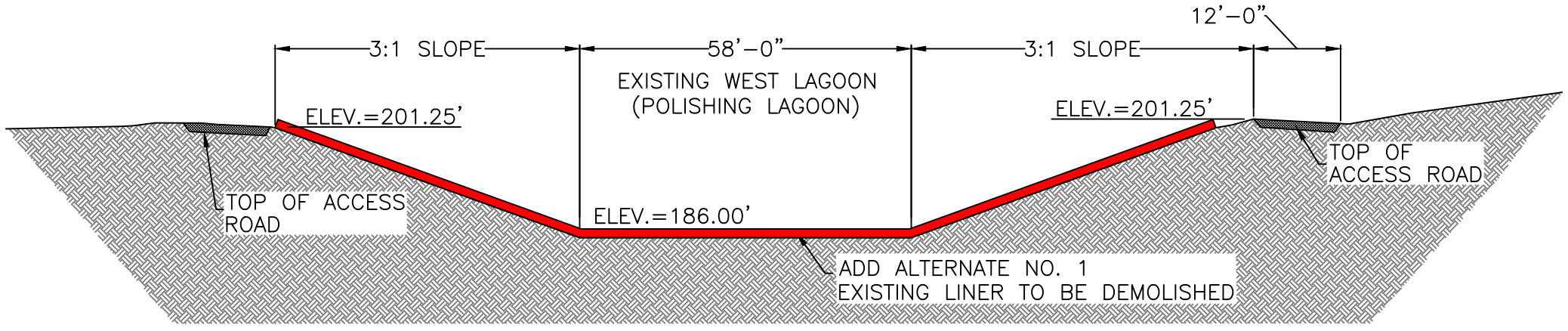
Revisions:

PLAN VIEW -
EXISTING CONDITIONS
AND REQUIRED DEMOLITION

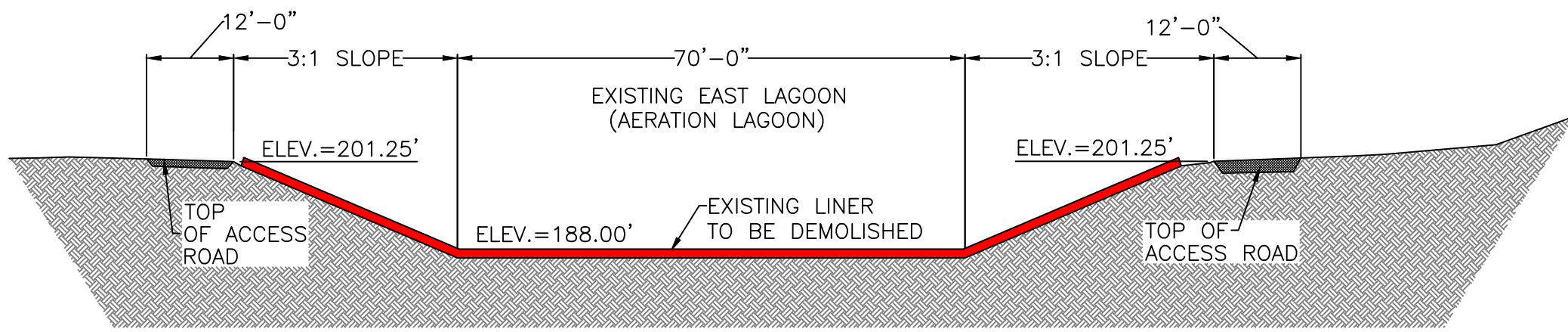
C-104
Drawing Number



A SECTION - EXISTING LAGOONS
C-105 SCALE: 1"=20'-0"



B SECTION - EXISTING WEST LAGOON
C-105 SCALE: 1"=20'-0"



C SECTION - EXISTING EAST LAGOON
C-105 SCALE: 1"=20'-0"

CONSTRUCTION
DOCUMENT

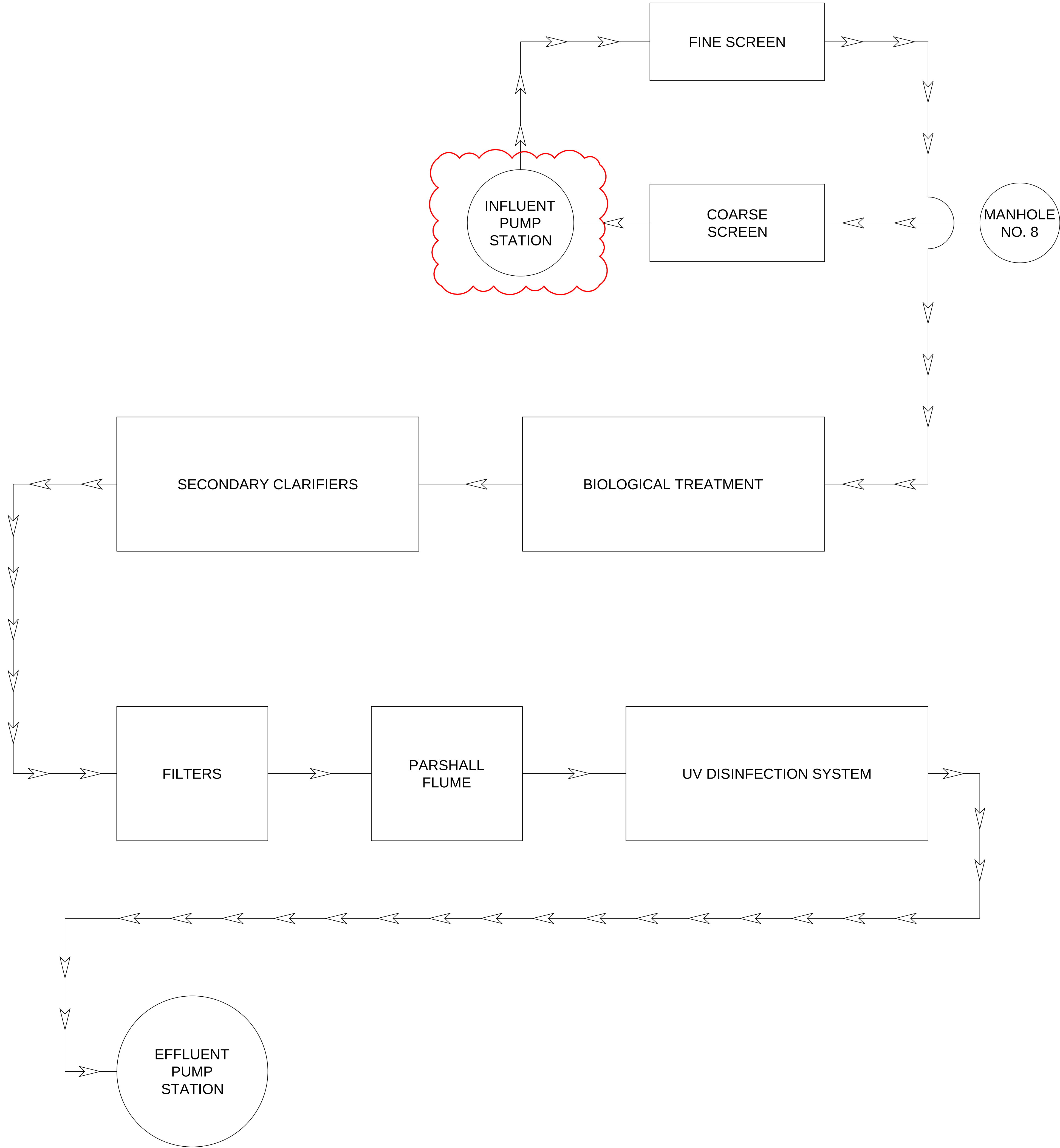
GS#323-024 ARPA INFR. - WASTE
CENT. TREATMENT
SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION
LEAKESVILLE, MISSISSIPPI

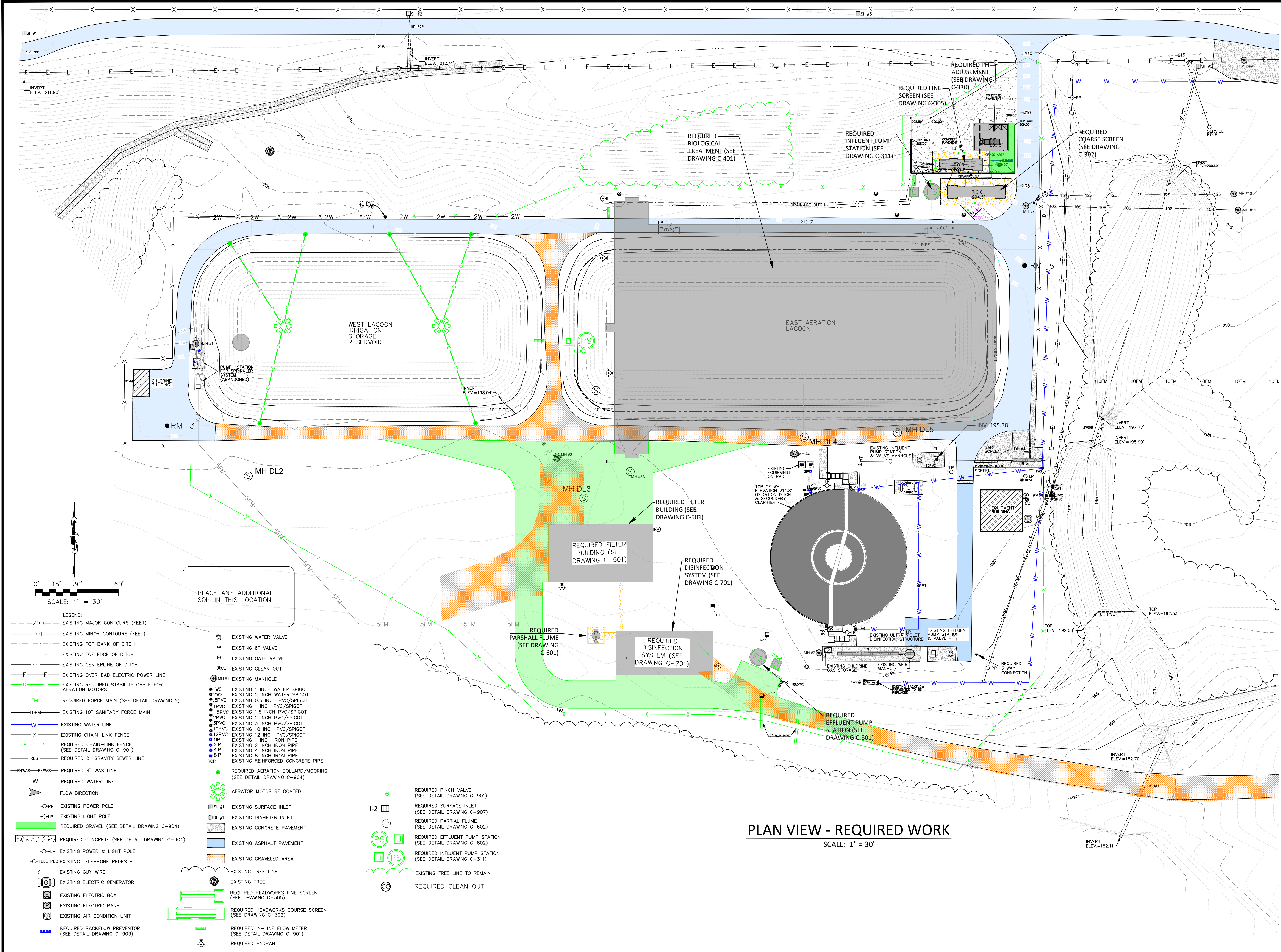
Burle Proj. No.:	08194-1-0122
File Name:	C-105 LagoonCross-Section.dwg
Date:	04/17/2024
Scale:	1"=20'
Drawn by:	MJJ/JRG
Checked:	DTM
Revisions:	

Revisions:

Revisions:

SECTIONS- EXISTING
LAGOONS





GS#323-024 ARPA INFR. - WASTE
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LEAKESVILLE, MISSISSIPPI

Burle Proj. No.:
08194-1-0122

File Name:
C-201 PLAN VIEW - REQUIRED
WORK.dwg

Date: 04/29/2024

Scale: 1"=30'

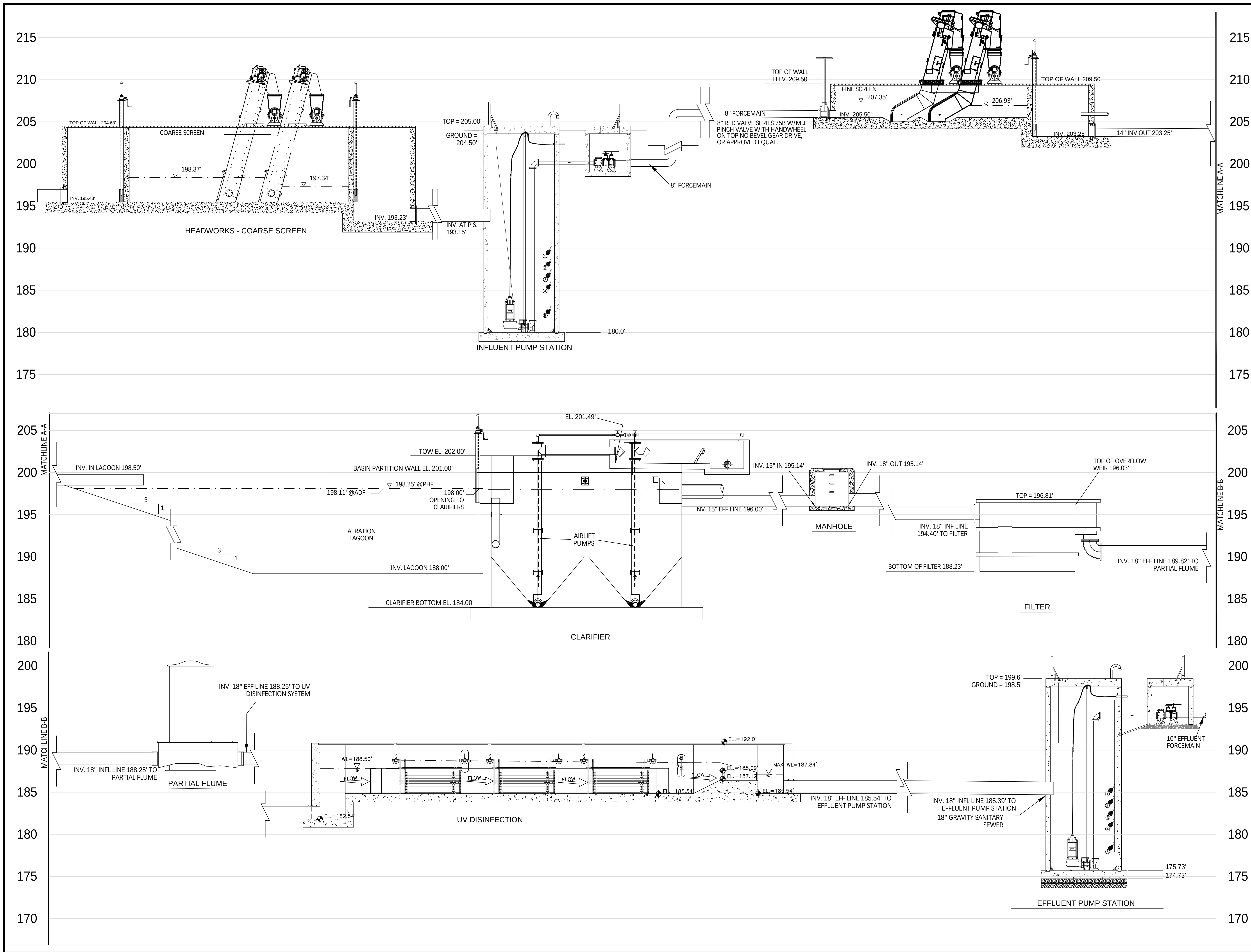
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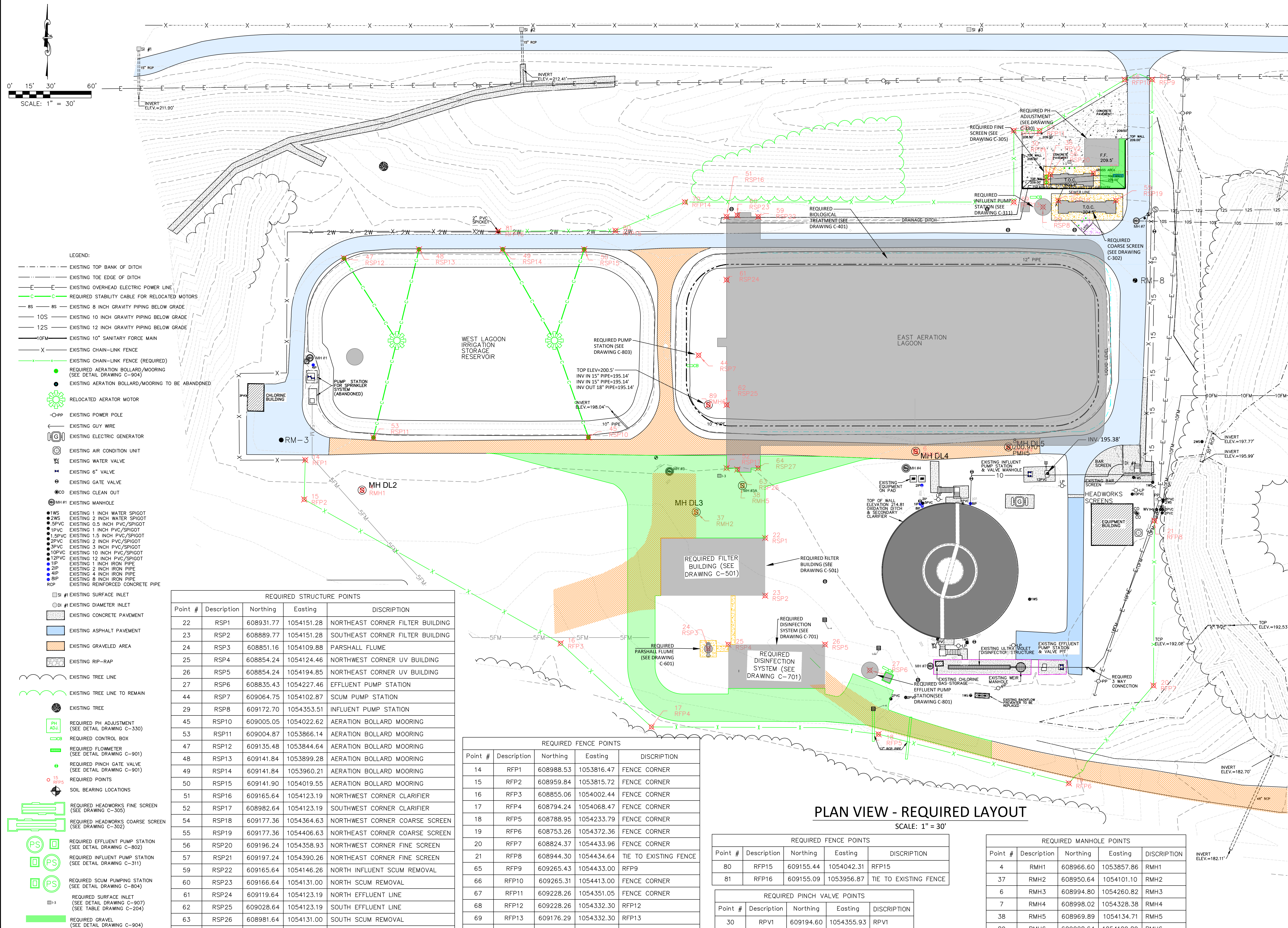
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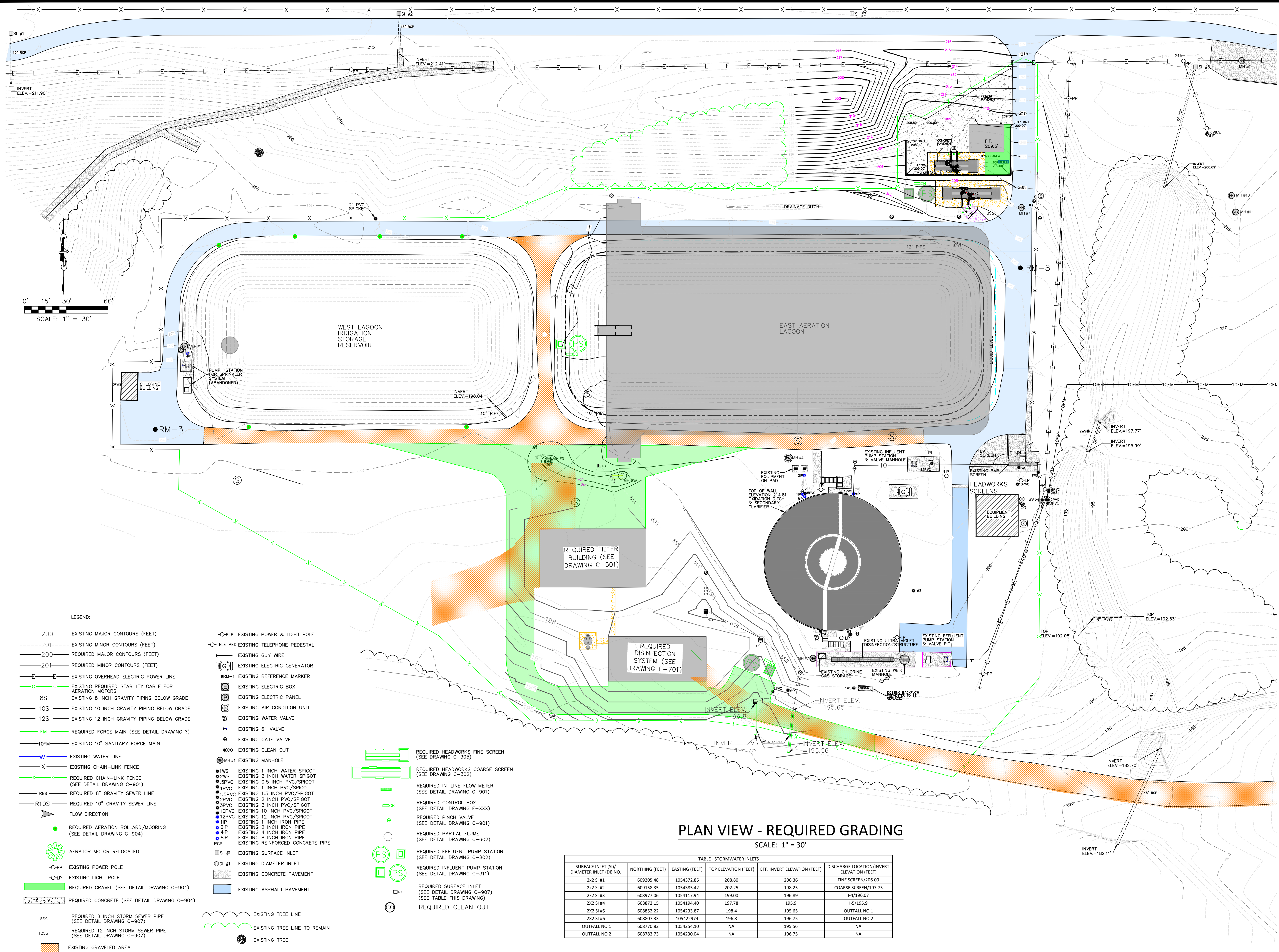
Revisions:
6/18/2024
ADDENDUM 3

Revisions:

PLAN VIEW -
REQUIRED WORK







W. L. BURLE
ENGINEERS, P.A.
111 South Walnut Street
Greenville, MS 38701

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LEAKESVILLE, MISSISSIPPI

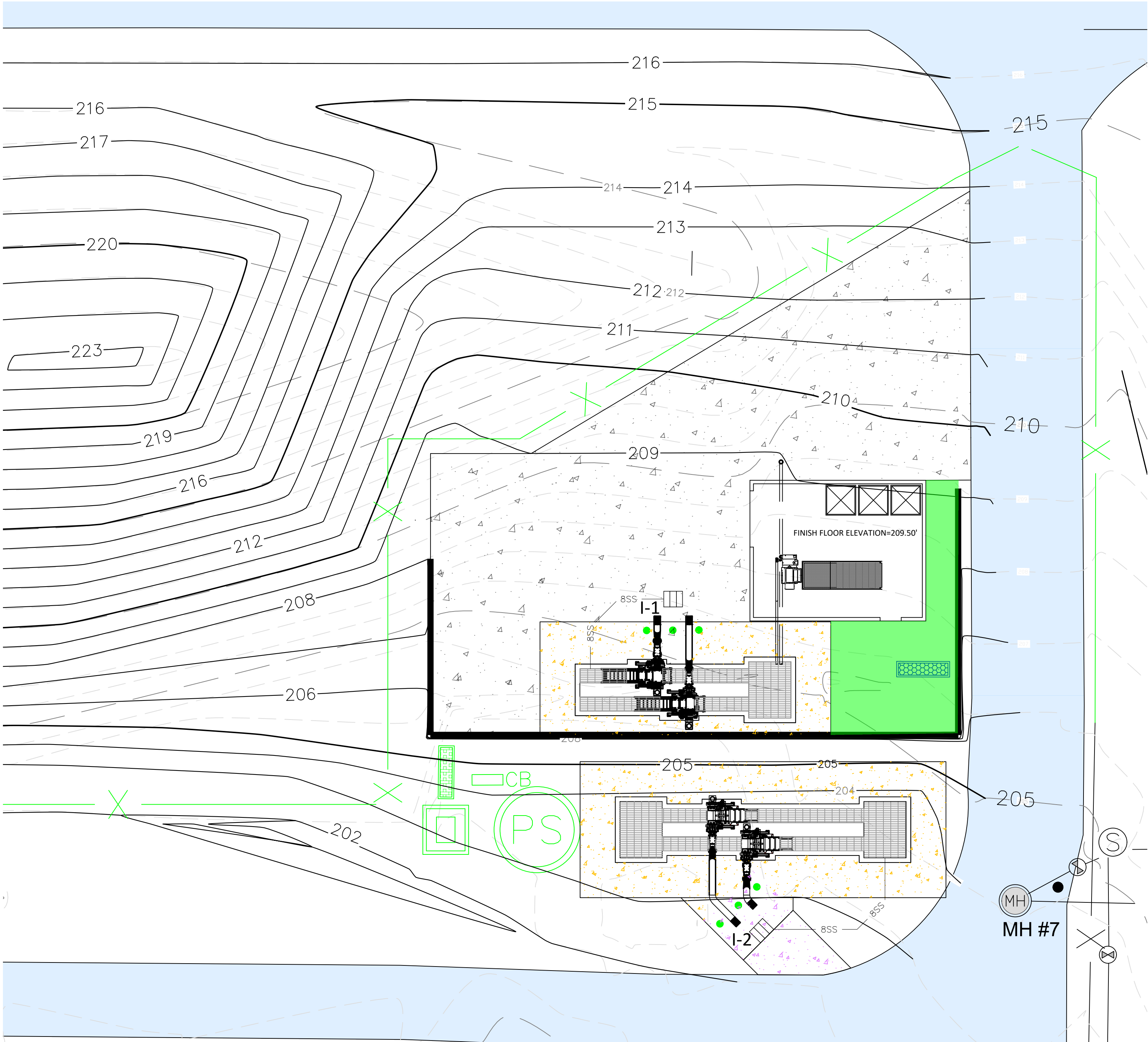
File Name:
C-204 - PLAN VIEW - REQUIRED
GRADING

Drawn by:	JRG
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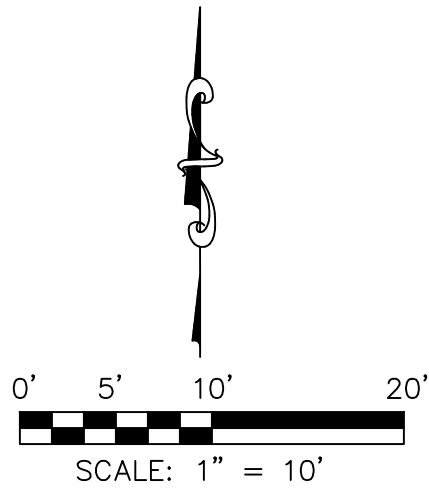
Revisions:
6/18/2024
ADDENDUM 3

Revisions:

PLAN VIEW -
REQUIRED GRADING



PLAN VIEW - REQUIRED GRADING HEADWORKS
SCALE: 1" = 10'



- LEGEND:
- 200 --- EXISTING MAJOR CONTOURS (FEET)
 - 201 --- EXISTING MINOR CONTOURS (FEET)
 - 200 — REQUIRED MAJOR CONTOURS (FEET)
 - 201 — REQUIRED MINOR CONTOURS (FEET)
 - 8SS — 8SS — 8SS — 8SS — REQUIRED 8 INCH STORM SEWER PIPE (SEE DETAIL DRAWING C-907)
 - [Green Area] REQUIRED GRAVEL (SEE DETAIL DRAWING C-904)
 - [Rectangles] REQUIRED HEADWORKS FINE SCREEN (SEE DRAWING C-305)
 - [Rectangles] REQUIRED HEADWORKS COARSE SCREEN (SEE DRAWING C-302)
 - [Green Circle with PS] REQUIRED INFLUENT PUMP STATION (SEE DRAWING C-311)
 - [Green Rectangle with Grid] REQUIRED IN-LINE FLOWMETER (SEE DRAWING C-901)
 - [Green Rectangle with Dots] REQUIRED BACK FLOW PREVENTOR (SEE DRAWING C-903)
 - [Green Rectangle with I-3] REQUIRED SURFACE INLET (SEE DETAIL DRAWING C-907) (SEE TABLE DRAWING C-204)

NOTE: PROCESS PIPING NOT SHOWN FOR CLARITY.



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Burle Proj. No.:
08194-1-0122

File Name:
C-205 PLAN VIEW - REQUIRED GRADING
HEADWORKS.DWG

Date: 04/29/2024

Scale: SHOWN

Drawn by: JRG

Checked: DTM

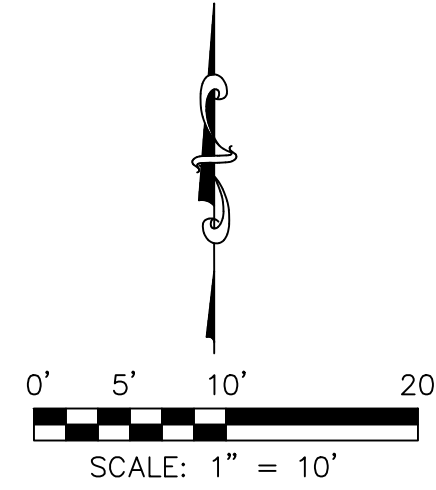
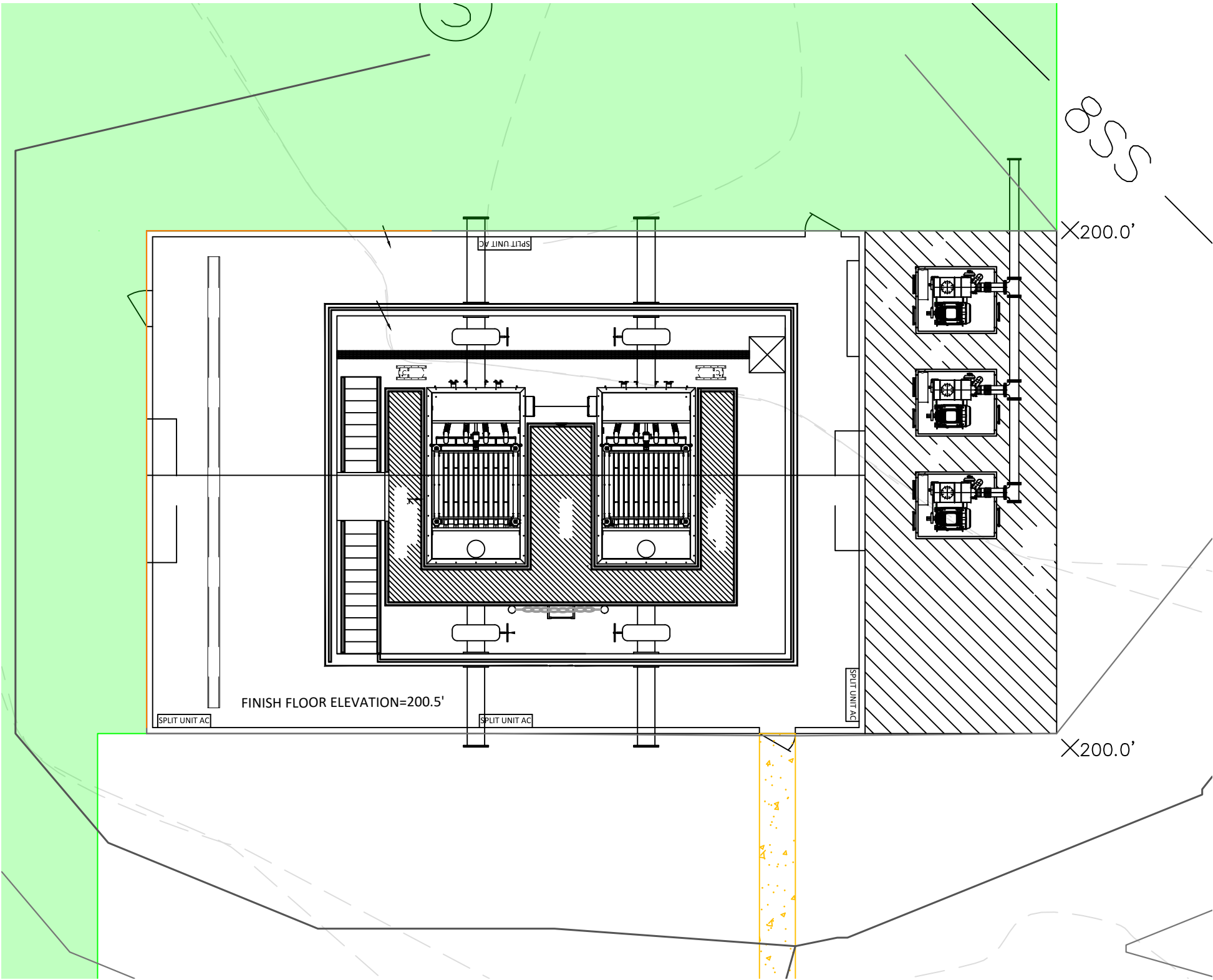
Revisions:

Revisions:

Revisions:

PLAN VIEW -
REQUIRED GRADING
HEADWORKS

NOTE: PROCESS PIPING NOT SHOWN FOR CLARITY.



LEGEND:

- 200 EXISTING MAJOR CONTOURS (FEET)
- 201 EXISTING MINOR CONTOURS (FEET)
- 200 REQUIRED MAJOR CONTOURS (FEET)
- 201 REQUIRED MINOR CONTOURS (FEET)
- REQUIRED GRAVEL (SEE DETAIL DRAWING C-904)
- REQUIRED 4 INCH CONCRETE
- REQUIRED MANHOLE
- REQUIRED SPOT ELEVATION (FEET)



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TREATMENT
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LEAKESVILLE, MS.

Burle Proj. No.:
08194-1-0122

File Name:
C-206 PLAN VIEW - REQUIRED GRADING
FILTERS.DWG

Date: 04/29/2024

Scale: SHOWN

Drawn by: JRG

Checked: DTM

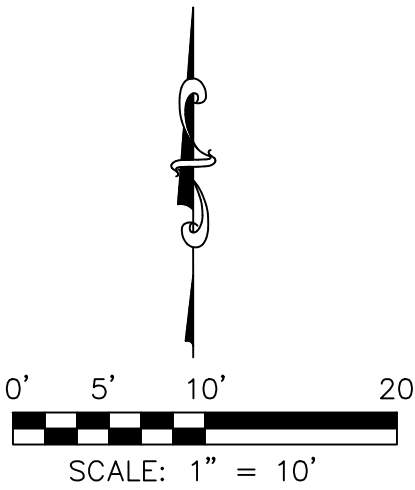
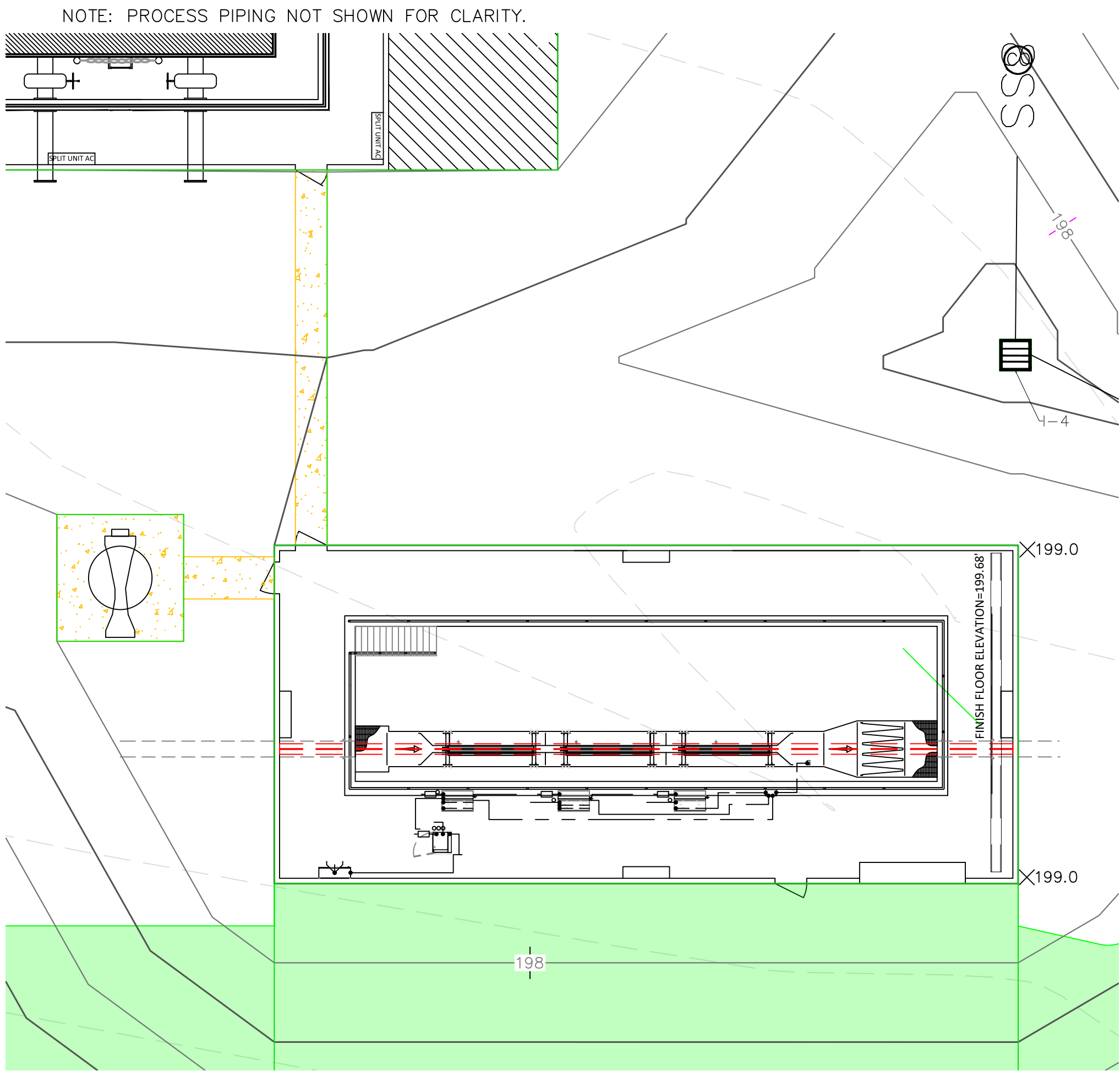
Revisions:
6/18/2024
ADDENDUM 3

Revisions:

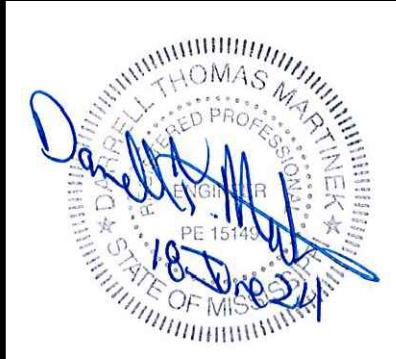
Revisions:

PLAN VIEW -
REQUIRED GRADING
FILTERS

C-206
Drawing Number



- LEGEND:
- 200 --- EXISTING MAJOR CONTOURS (FEET)
 - 201 --- EXISTING MINOR CONTOURS (FEET)
 - == 200 == REQUIRED MAJOR CONTOURS (FEET)
 - == 201 == REQUIRED MINOR CONTOURS (FEET)
 - [Green Shaded Area] REQUIRED GRAVEL (SEE DETAIL DRAWING C-904)
 - [Yellow Dotted Area] REQUIRED 4 INCH CONCRETE
 - [Partial Flume Symbol] REQUIRED PARTIAL FLUME (SEE DETAIL DRAWING C-602)
 - X199.0 REQUIRED SPOT ELEVATION (FEET)

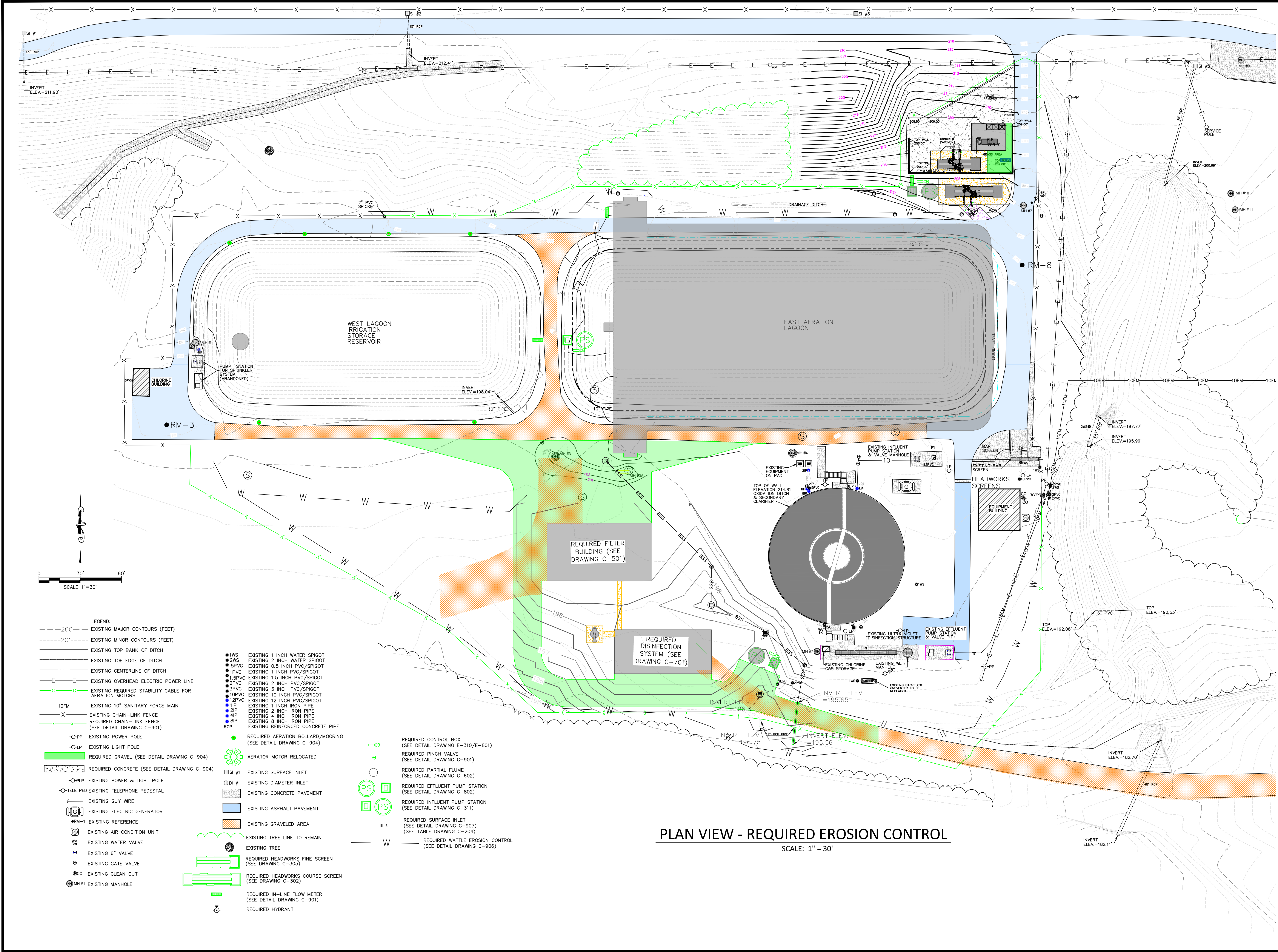


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SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION
LEAKESVILLE, MS.

Burle Proj. No.: 08194-1-0122
File Name: C-206 PLAN VIEW - REQUIRED GRADING UV DISINFECTION.DWG
Date: 04/29/2024
Scale: SHOWN
Drawn by: JRG
Checked: DTM
Revisions: 6/18/2024 ADDENDUM 3

Revisions:

Revisions:



W. L. BURLE

ENGINEERS, P.A.

111 South Walnut Street
Greenville, MS 38701

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CENT. TREATMENT
SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION
LEAKESVILLE, MISSISSIPPI

Revisions:
6/18/2024
ADDENDUM 3

Burle Proj. No.:
08194-1-0122

File Name:
C-208 - PLAN VIEW - REQUIRED EROSION
CONTROL.DWG

Date: 04/29/2024

Scale: 1"=30'

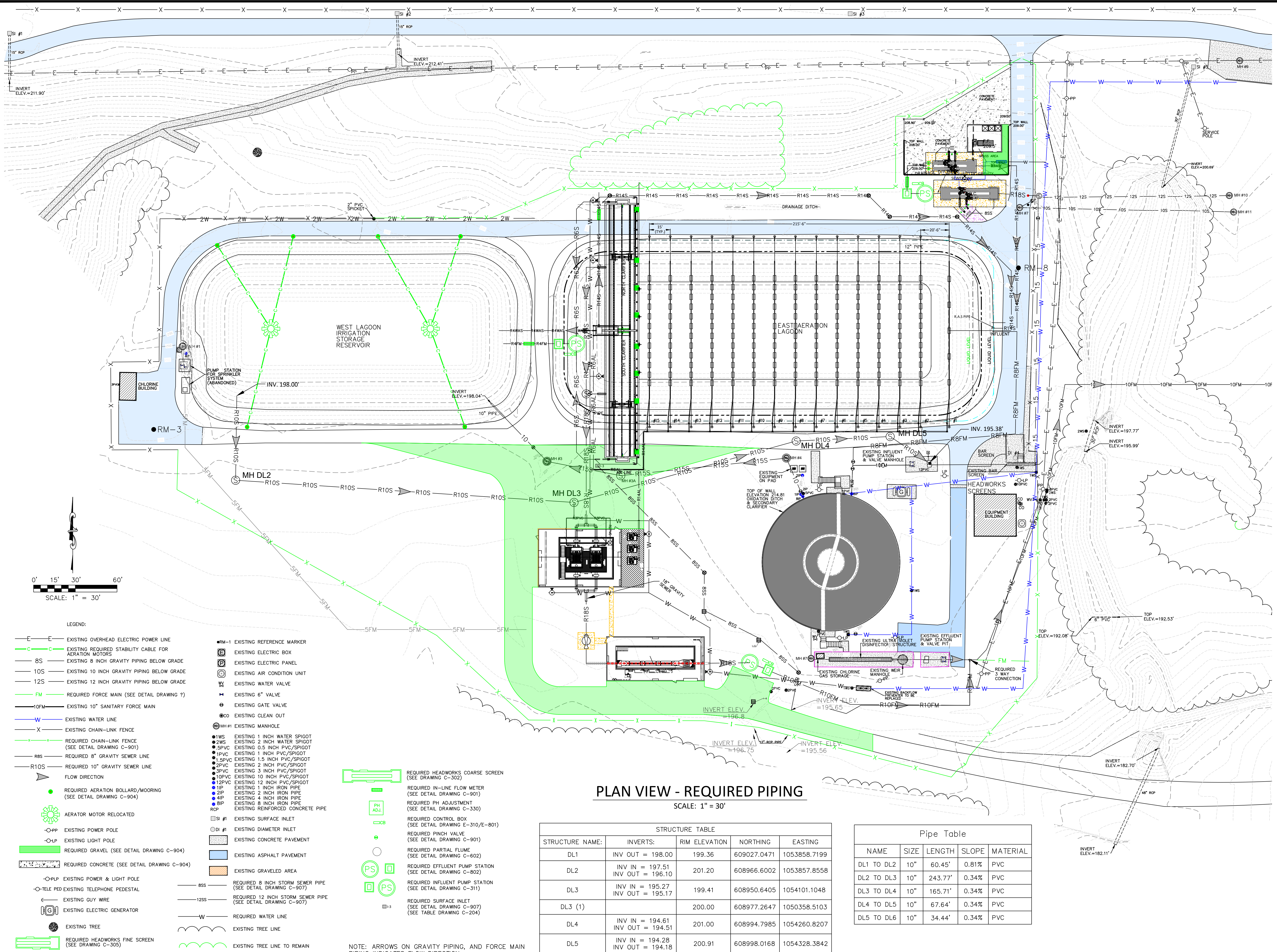
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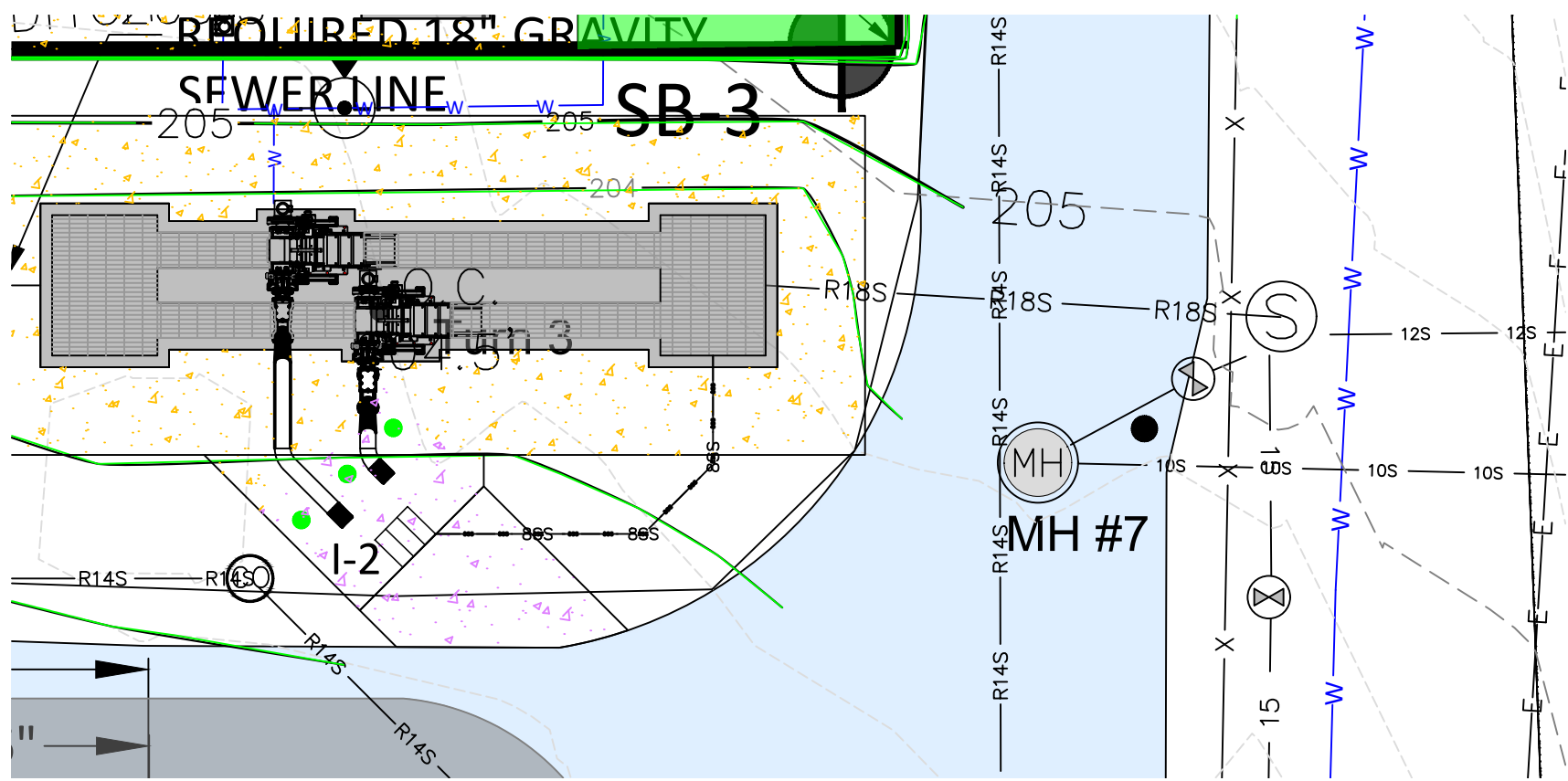
Checked: DTM

Revisions:
6/18/2024
ADDENDUM 3

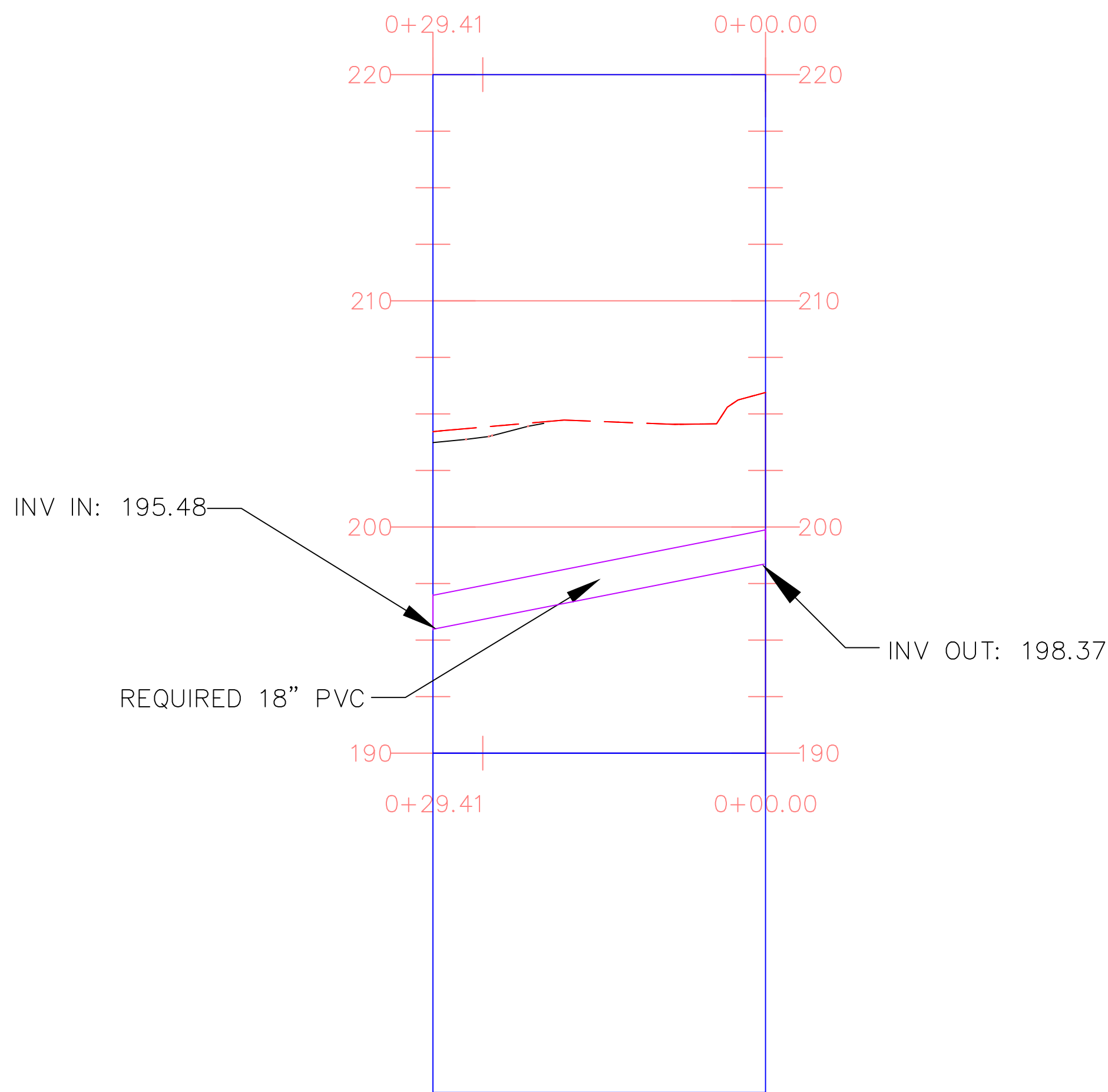
Revisions:

C-208
Drawing Number

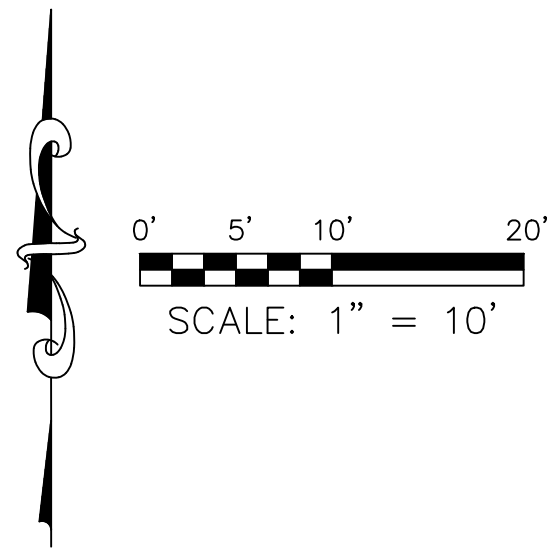




PLAN VIEW
MH-8 TO COARSE SCREEN
SCALE: 1"=10'



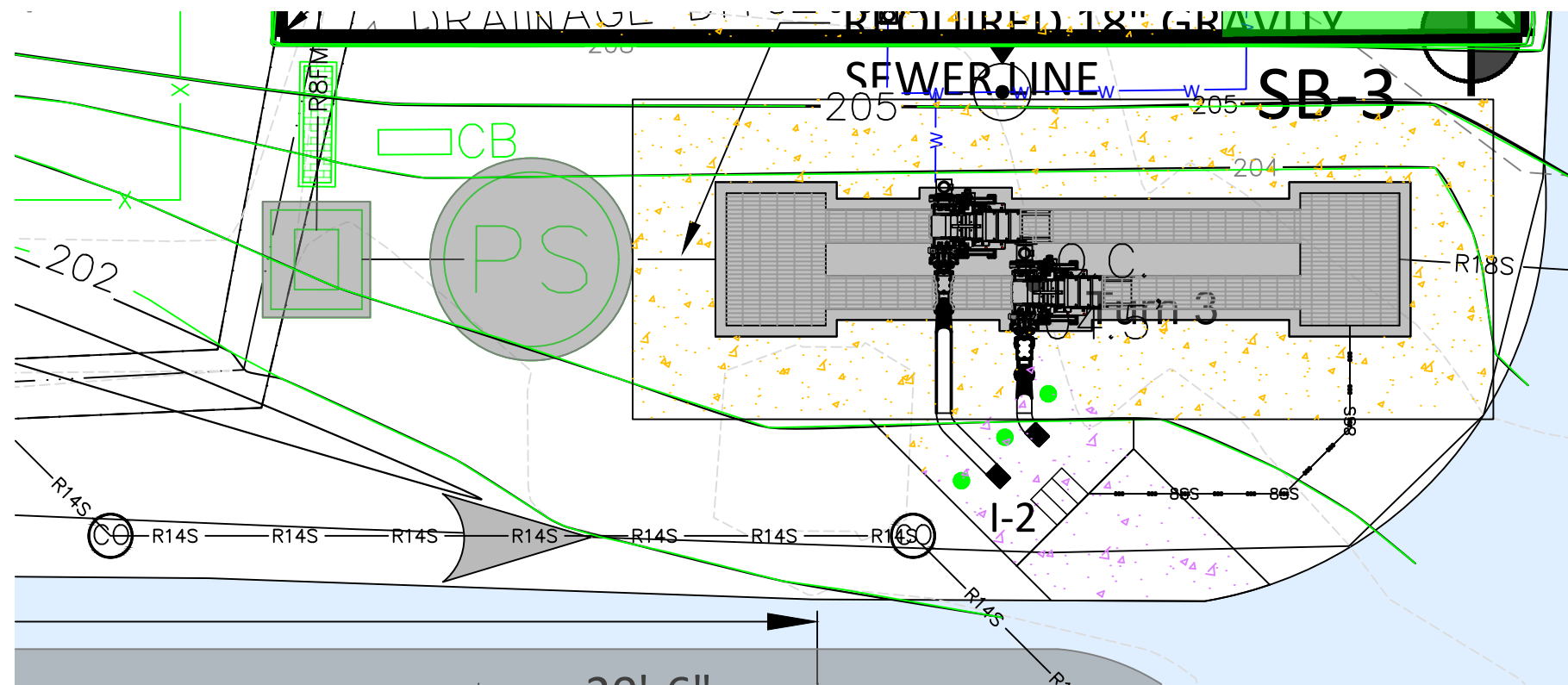
PROFILE VIEW
MH-8 TO COARSE SCREEN
SCALE: 1"=10'H/1"=5'V



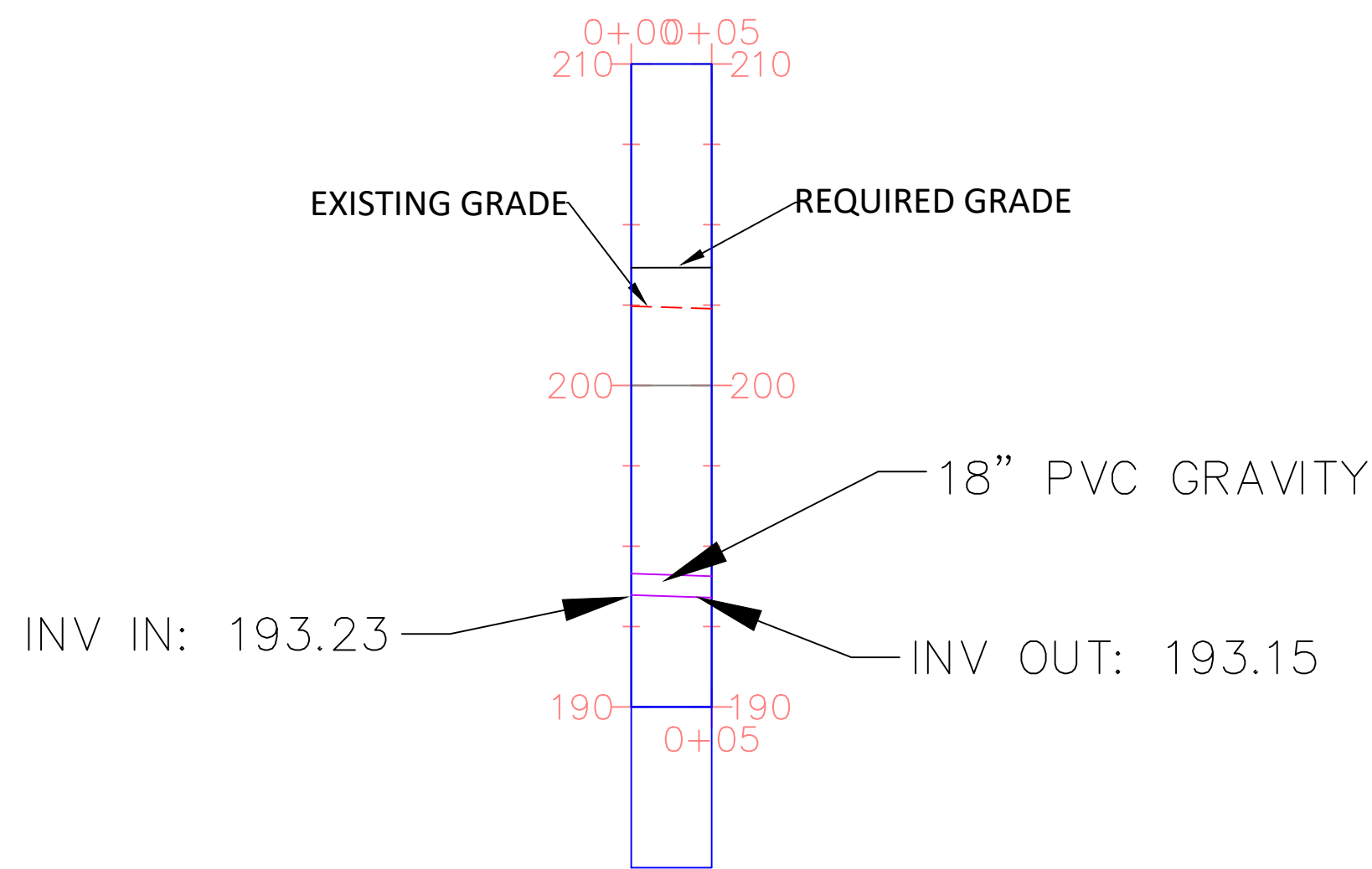
- LEGEND:
- 200--- EXISTING MAJOR CONTOURS (FEET)
 - 201--- EXISTING MINOR CONTOURS (FEET)
 - 200--- REQUIRED MAJOR CONTOURS (FEET)
 - 201--- REQUIRED MINOR CONTOURS (FEET)
 - EXISTING TOP BANK OF DITCH
 - EXISTING TOE EDGE OF DITCH
 - EXISTING CENTERLINE OF DITCH
 - 12S---12S--- EXISTING 12 INCH GRAVITY PIPING BELOW GRADE
 - W---W--- EXISTING WATER LINE
 - W---W--- REQUIRED WATER LINE
 - 8SS---8SS--- REQUIRED 8 INCH STORM SEWER PIPE (SEE DETAIL DRAWING C-907)
 - FLOW DIRECTION
 - ⊙ MH #1 EXISTING MANHOLE
 - EXISTING ASPHALT PAVEMENT
 - REQUIRED 4" CONCRETE (SEE DETAIL DRAWING C-904)
 - REQUIRED 8" CONCRETE (SEE DETAIL DRAWING C-904)
 - REQUIRED HYDRANT (SEE DETAIL DRAWING C-903)
 - REQUIRED BOLLARD (SEE DETAIL DRAWING C-904)
 - REQUIRED HEADWORKS COARSE SCREEN (SEE DRAWING C-302)
 - REQUIRED SURFACE INLET (SEE DETAIL DRAWING C-907) (SEE TABLE DRAWING C-204)

STRUCTURE TABLE				
STRUCTURE NAME:	INVERTS:	RIM ELEVATION	NORTHING	EASTING
COARSE SCREEN		199.45	609170.8864	1054435.3184
MH-8	INV OUT = 198.37	199.45	609170.8864	1054435.3184

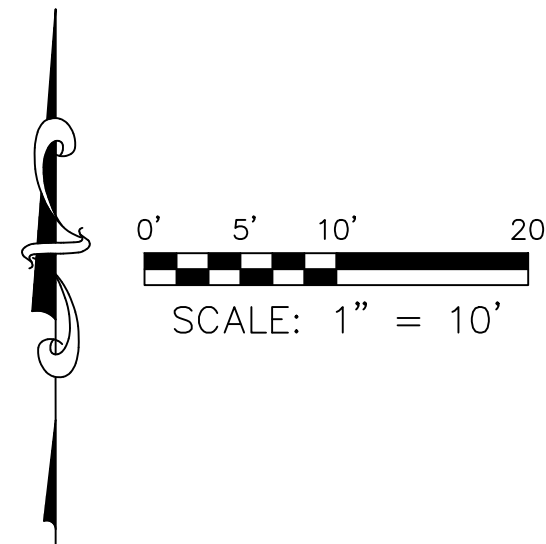
Pipe Table				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
MH-8 TO HEADWORKS	18"	29.41'	9.83%	PVC



PLAN VIEW
COARSE SCREEN TO INFLUENT PUMP STATION
SCALE: 1"=10'



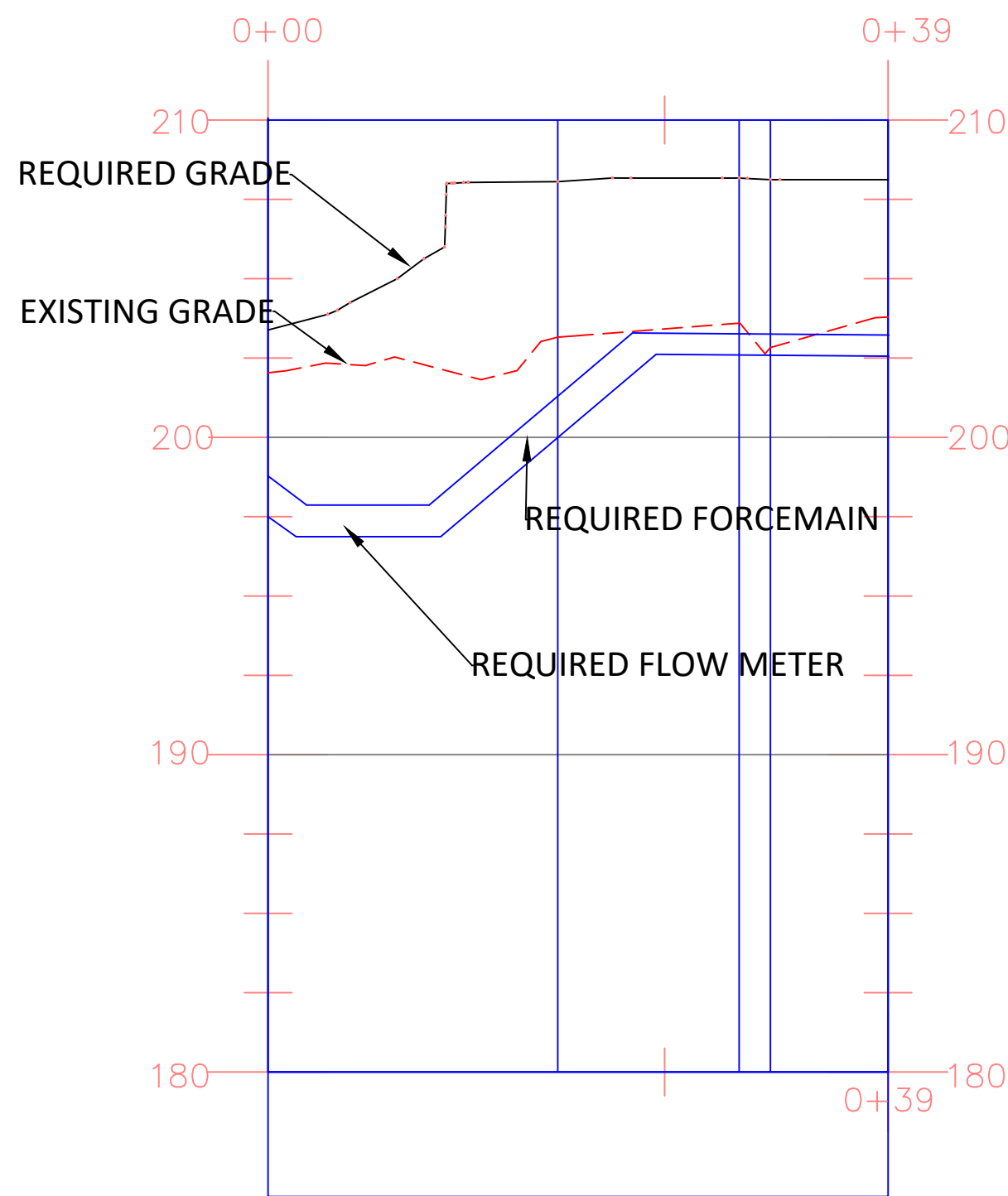
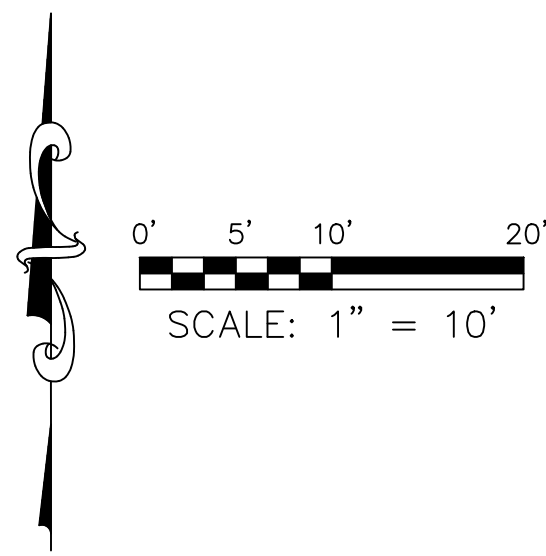
PROFILE VIEW
COARSE SCREEN TO INFLUENT PUMP STATION
SCALE: 1"=10'H/1"=5'V



LEGEND:	
	EXISTING MAJOR CONTOURS (FEET)
	EXISTING MINOR CONTOURS (FEET)
	REQUIRED MAJOR CONTOURS (FEET)
	REQUIRED MINOR CONTOURS (FEET)
	REQUIRED 8 INCH STORM SEWER PIPE (SEE DETAIL DRAWING C-907)
	REQUIRED 12" GRAVITY SEWER LINE
	REQUIRED 18" GRAVITY SEWER LINE
	REQUIRED INFLUENT PUMP STATION (SEE DETAIL DRAWING C-310)
	REQUIRED MECHANICAL COARSE SCREEN (SEE DRAWING C-302)
	REQUIRED IN-LINE FLOW METER (SEE DRAWING C-901)
	FLOW DIRECTION
	REQUIRED BOLLARD (SEE DRAWING C-904)
	EXISTING ASPHALT PAVEMENT
	REQUIRED 4" CONCRETE (SEE DETAIL DRAWING C-904)
	REQUIRED 8" CONCRETE (SEE DETAIL DRAWING C-904)
	REQUIRED HYDRANT (SEE DETAIL DRAWING C-903)
	REQUIRED SURFACE INLET (SEE DETAIL DRAWING C-907) (SEE TABLE DRAWING C-204)

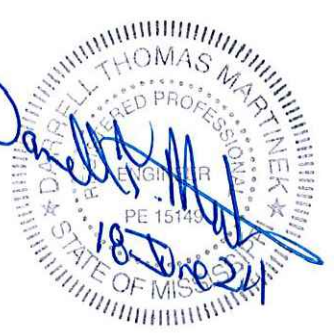


PLAN VIEW
VALVE BOX TO FINE SCREEN
SCALE: 1"=10'



PROFILE VIEW
VALVE BOX TO FINE SCREEN
SCALE: 1"=10'H/1"=5'V

LEGEND:	
	EXISTING MAJOR CONTOURS (FEET)
	EXISTING MINOR CONTOURS (FEET)
	REQUIRED MAJOR CONTOURS (FEET)
	REQUIRED MINOR CONTOURS (FEET)
	REQUIRED 8 INCH STORM SEWER PIPE (SEE DETAIL DRAWING C-907)
	REQUIRED 8" FORCE MAIN
	REQUIRED 12" GRAVITY SEWER LINE
	REQUIRED 14" GRAVITY SEWER LINE
	REQUIRED WATER LINE
	REQUIRED 8" STORM SEWER WATER LINE
	REQUIRED INFLUENT PUMP STATION (SEE DETAIL DRAWING C-310)
	REQUIRED MECHANICAL FINE SCREEN (SEE DRAWING C-305)
	REQUIRED MECHANICAL COARSE SCREEN (SEE DRAWING C-302)
	REQUIRED IN-LINE FLOW METER (SEE DRAWING C-901)
	REQUIRED BACK FLOW PREVENTOR (SEE DRAWING C-903)
	REQUIRED SURFACE INLET (SEE DETAIL DRAWING C-907)
	REQUIRED PINCH VALVE (SEE DETAIL DRAWING C-901)
	REQUIRED BOLLARD (SEE DRAWING C-904)
	EXISTING ASPHALT PAVEMENT
	REQUIRED 4" CONCRETE (SEE DRAWING C-904)
	REQUIRED 8" CONCRETE (SEE DRAWING C-904)
	REQUIRED HYDRANT (SEE DRAWING C-903)
	FLOW DIRECTION
	REQUIRED SURFACE INLET (SEE DETAIL DRAWING C-907) (SEE TABLE DRAWING C-204)



Burle Proj. No.:
08194-1-0122

File Name:
PLAN AND PROFILES.dwg

Date: 04/29/2024

Scale: AS SHOWN

Drawn by: MJJ/JRG

Checked: DTM

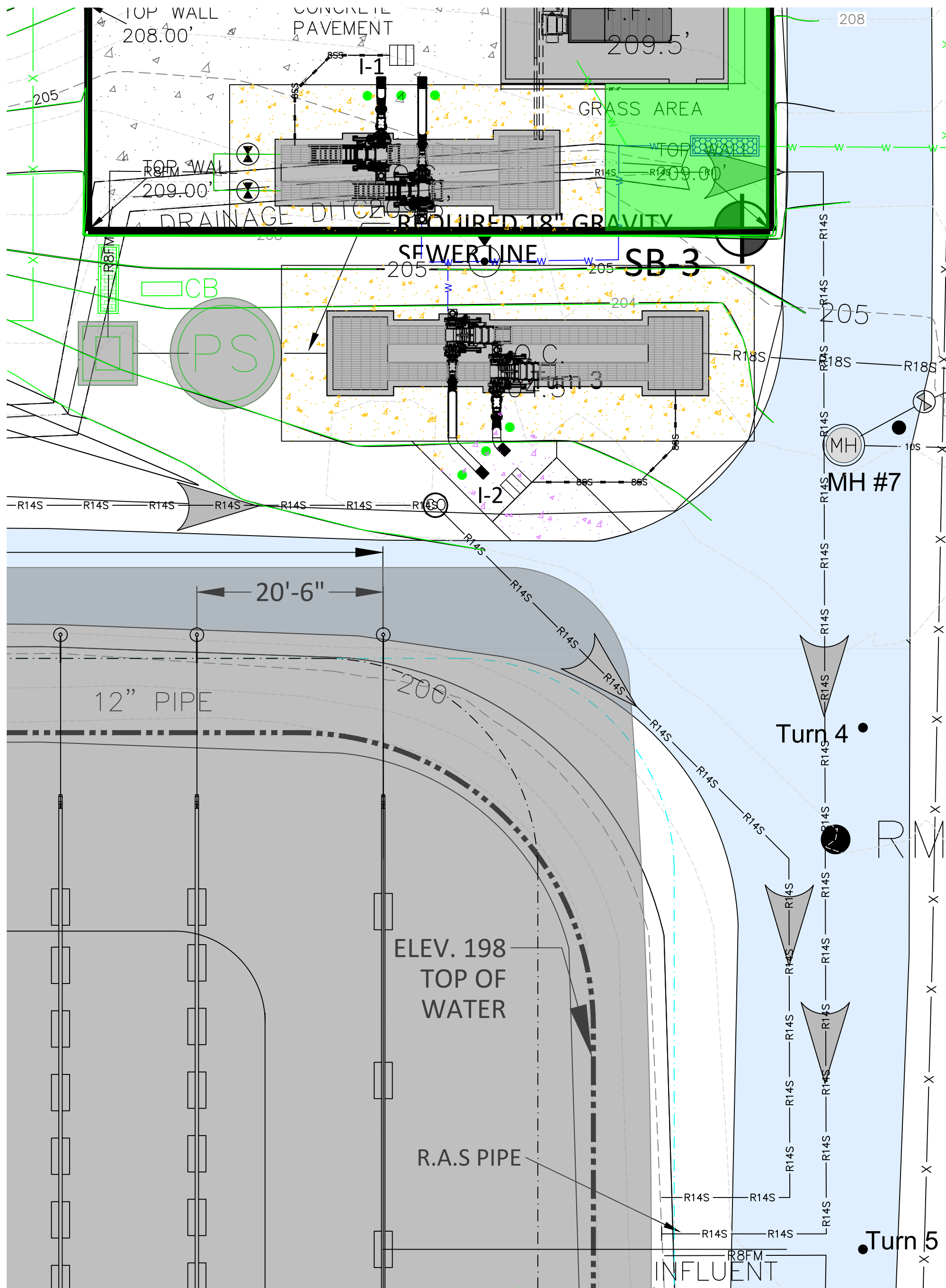
Revisions:
6/18/2024
ADDENDUM 3

Revisions:

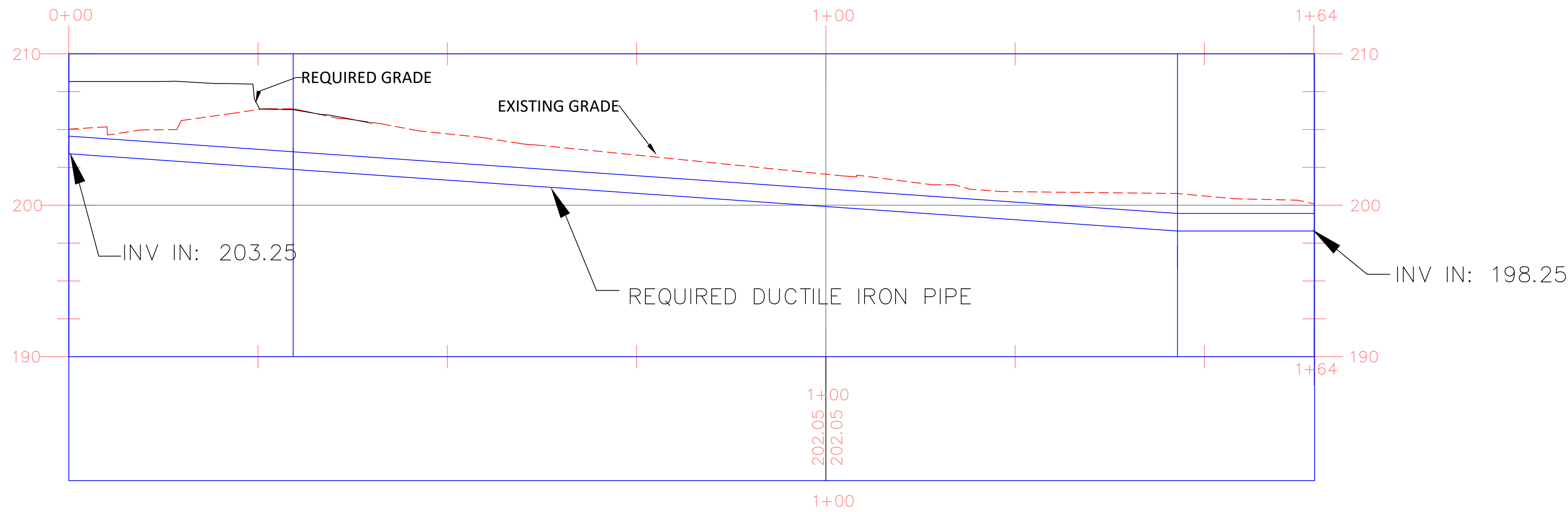
Revisions:

PLAN & PROFILE -
VALVE BOX TO FINE
SCREEN

C-214
Drawing Number

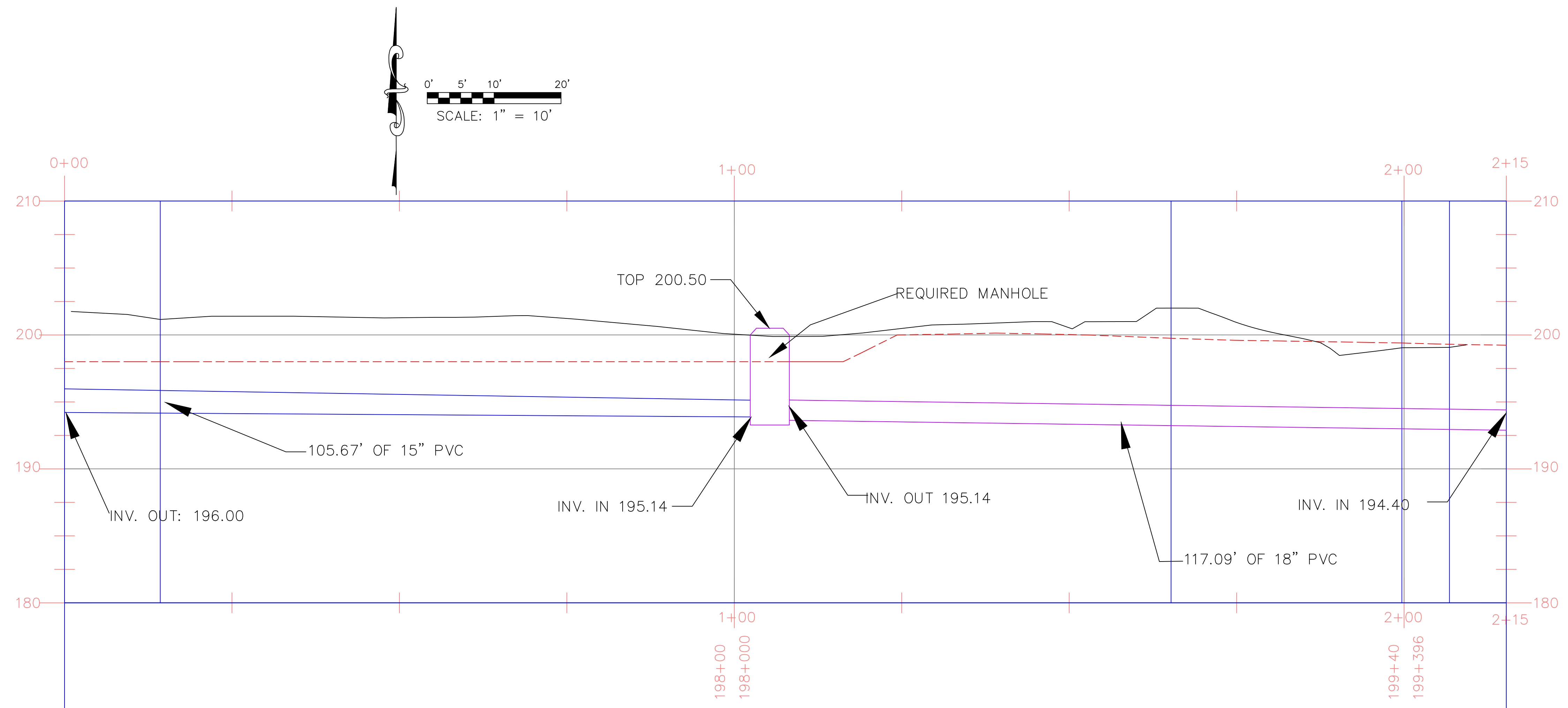
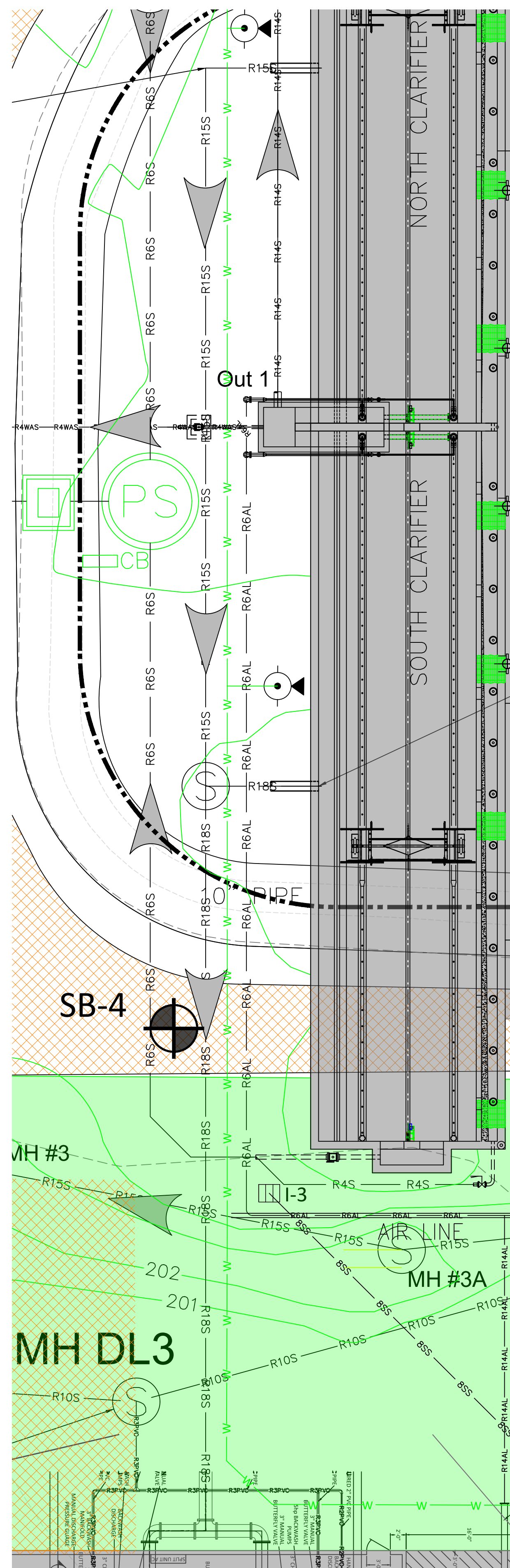


PLAN VIEW
FINE SCREEN TO EAST LAGOON
SCALE: 1"=10'



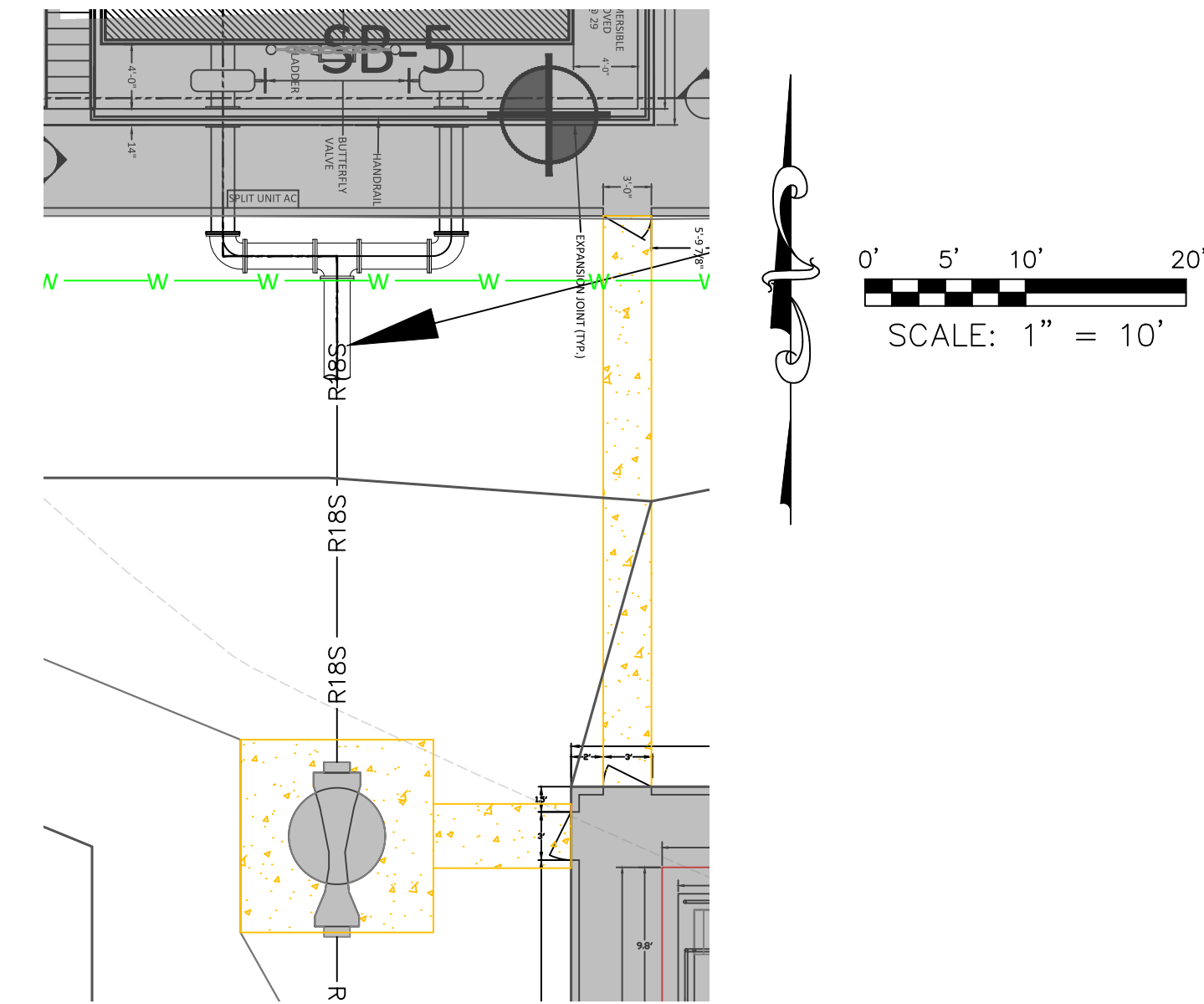
PROFILE VIEW
FINE SCREEN TO EAST LAGOON
SCALE: 1"=10'H/1"=5'V

LEGEND:		
	200	EXISTING MAJOR CONTOURS (FEET)
	201	EXISTING MINOR CONTOURS (FEET)
	200	REQUIRED MAJOR CONTOURS (FEET)
	201	REQUIRED MINOR CONTOURS (FEET)
		EXISTING TOP BANK OF DITCH
		EXISTING TOE EDGE OF DITCH
		EXISTING CENTERLINE OF DITCH
		REQUIRED 12" GRAVITY SEWER LINE
		REQUIRED 14" GRAVITY SEWER LINE
		REQUIRED 8" FORCE MAIN
		REQUIRED 8 INCH STORM SEWER PIPE (SEE DETAIL DRAWING C-907)
		FLOW DIRECTION
		REQUIRED MECHANICAL FINE SCREEN (SEE DRAWING C-305)
		REQUIRED MECHANICAL COARSE SCREEN (SEE DRAWING C-302)
		REQUIRED INFLUENT PUMP STATION (SEE DRAWING C-310)
		REQUIRED IN-LINE FLOWMETER (SEE DRAWING C-901)
		REQUIRED BACK FLOW PREVENTOR (SEE DRAWING C-903)
		REQUIRED CONTROL BOX (SEE DETAIL DRAWING E-310)
		REQUIRED 4" CONCRETE (SEE DETAIL DRAWING C-904)
		REQUIRED 8" CONCRETE (SEE DETAIL DRAWING C-904)
		REQUIRED SURFACE INLET (SEE DETAIL DRAWING C-907) (SEE TABLE DRAWING C-204)



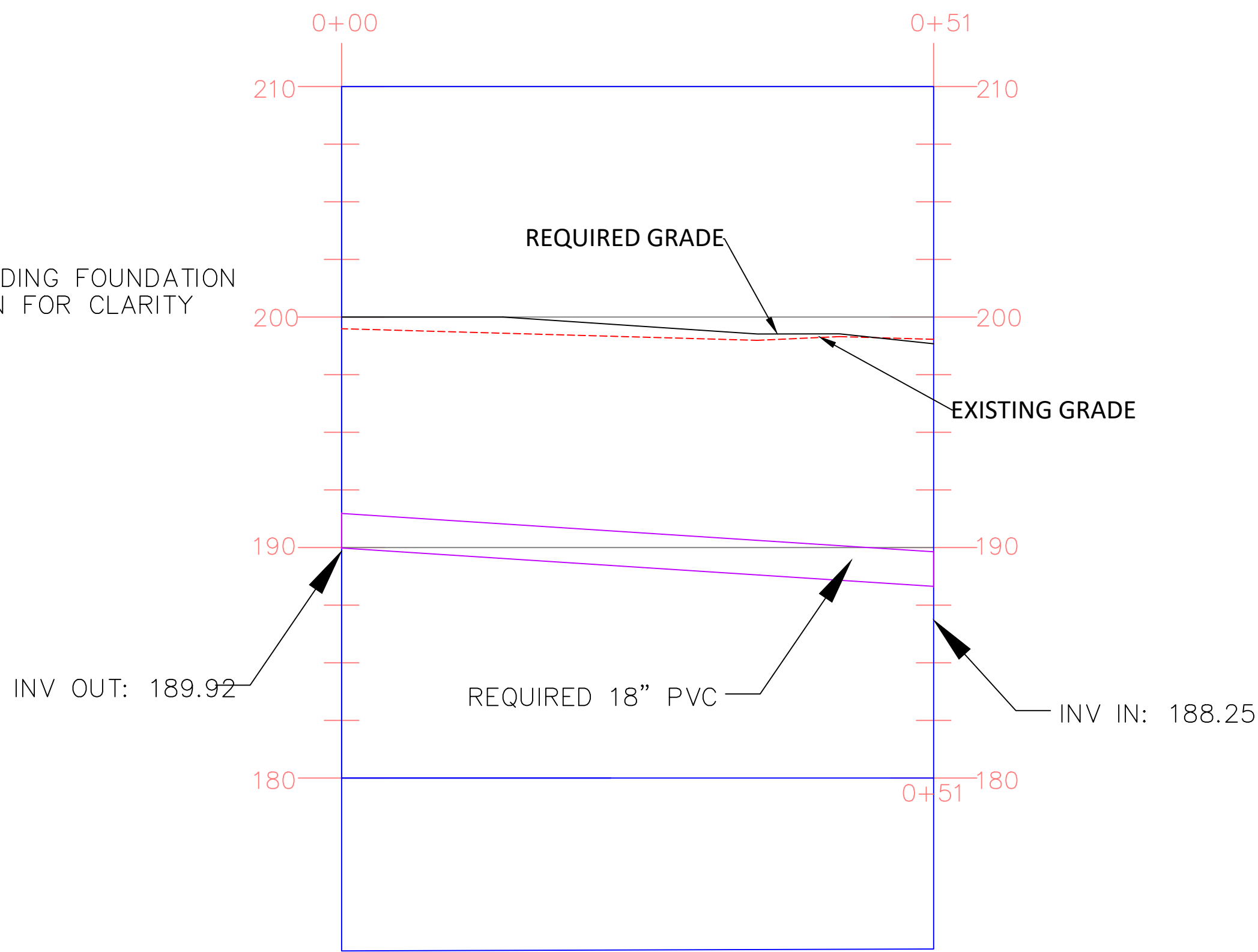
- LEGEND:
- | | |
|--|---|
| | EXISTING MAJOR CONTOURS (FEET) |
| | EXISTING MINOR CONTOURS (FEET) |
| | REQUIRED MAJOR CONTOURS (FEET) |
| | REQUIRED MINOR CONTOURS (FEET) |
| | EXISTING TOP BANK OF DITCH |
| | EXISTING TOE EDGE OF DITCH |
| | EXISTING CENTERLINE OF DITCH |
| | REQUIRED 8" FORCE MAIN (SEE DETAIL DRAWING C-902) |
| | REQUIRED 4" WAS LINE (SEE DETAIL DRAWING C-902) |
| | REQUIRED 8" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902) |
| | REQUIRED 10" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902) |
| | REQUIRED 12" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902) |
| | REQUIRED 12" STORM SEWER PIPE (SEE DETAIL DRAWING C-907) |
| | REQUIRED 18" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902) |
| | REQUIRED GRAVITY DECANT LINE (SEE DETAIL DRAWING C-902) |
| | REQUIRED WATER LINE (SEE DETAIL DRAWING C-903) |
| | REQUIRED 14" AIR LINE (SEE DETAIL DRAWING C-902) |
| | REQUIRED 6" AIR LINE (SEE DETAIL DRAWING C-902) |
| | REQUIRED SCUM PUMPING STATION
(SEE DETAIL DRAWING C-804) |
| | REQUIRED SURFACE INLET
(SEE DETAIL DRAWING C-907)
(SEE TABLE DRAWING C-204) |
| | I-3 |





PLAN VIEW
FILTER TO PARSHALL FLUME
SCALE: 1"=10'

- LEGEND:
- 200 --- EXISTING MAJOR CONTOURS (FEET)
 - 201 --- EXISTING MINOR CONTOURS (FEET)
 - 200 — REQUIRED MAJOR CONTOURS (FEET)
 - 201 — REQUIRED MINOR CONTOURS (FEET)
 - R185 — REQUIRED 18" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
 - ▲ FLOW DIRECTION
 - REQUIRED PARSHALL FLUME (SEE DRAWING C-601)



PROFILE VIEW
FILTER TO PARSHALL FLUME
SCALE: 1"=10'H/1"=5'V

NOTE: BUILDING FOUNDATION
NOT SHOWN FOR CLARITY



GSH323-024 ARPA INFR. - WASTE
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SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION
LEAKESVILLE, MISSISSIPPI

Burle Proj. No.:
08194-1-0122

File Name:
PLAN AND PROFILES.dwg

Date: 04/29/2024

Scale: AS SHOWN

Drawn by: MJJ/JRG

Checked: DTM

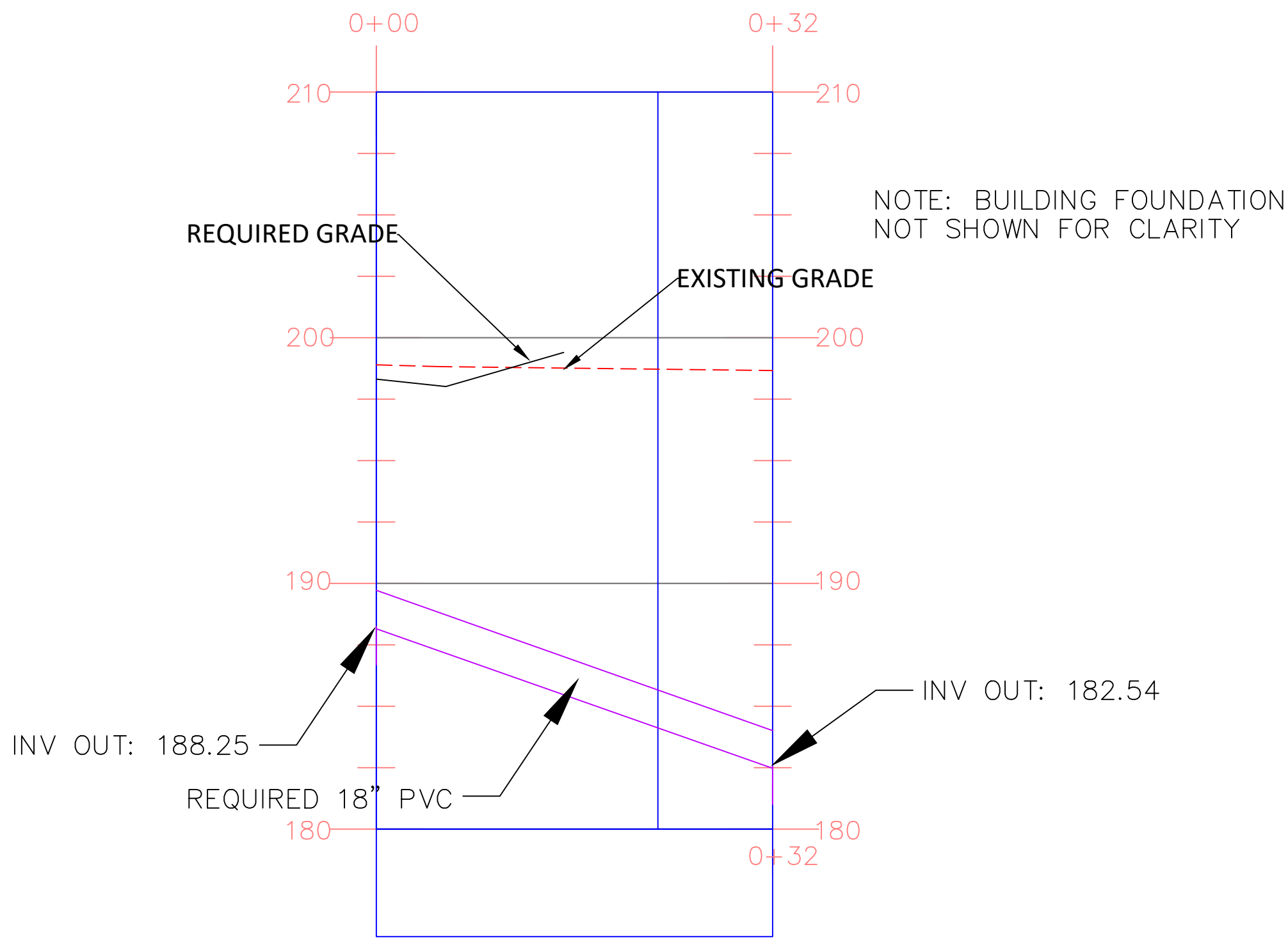
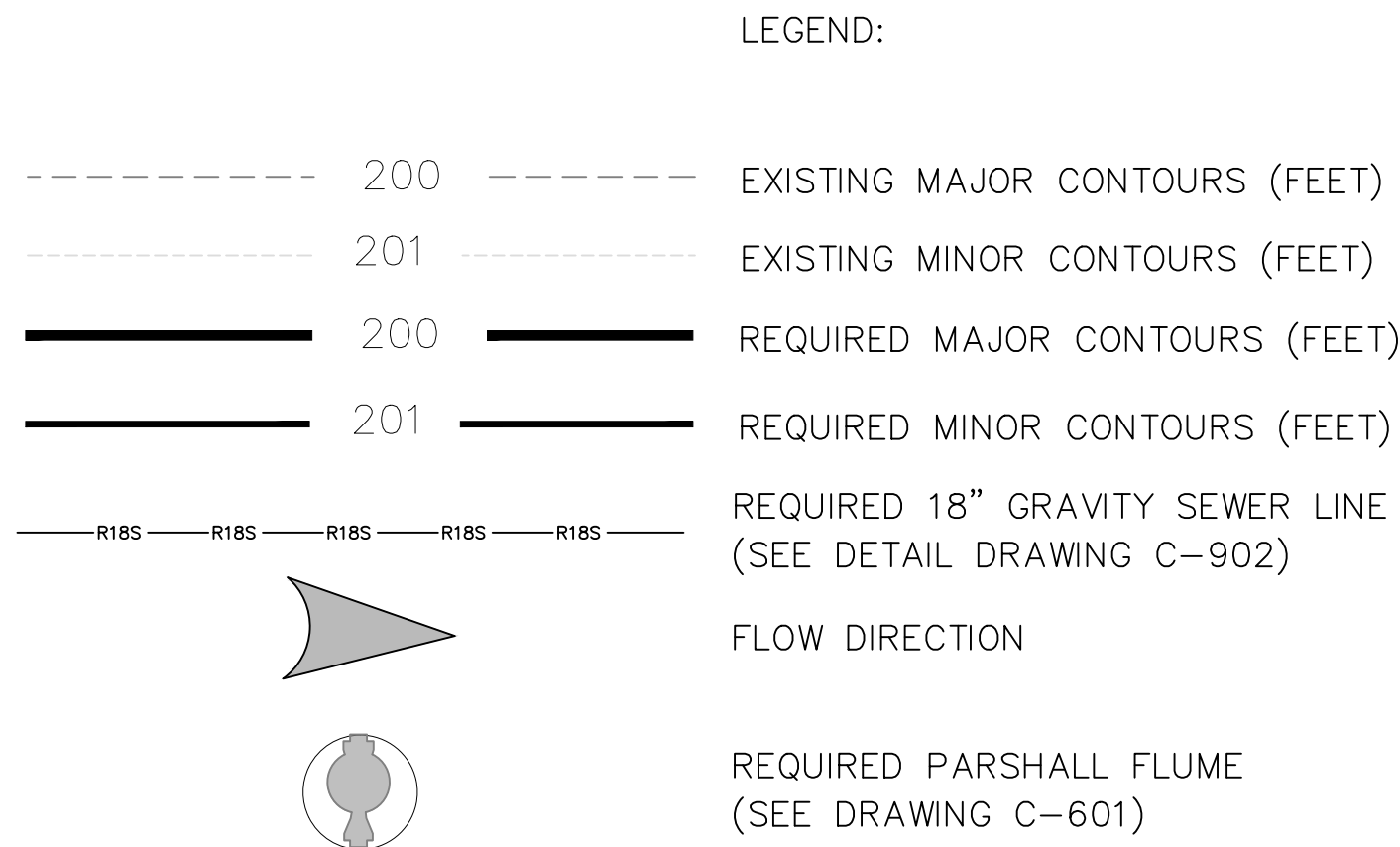
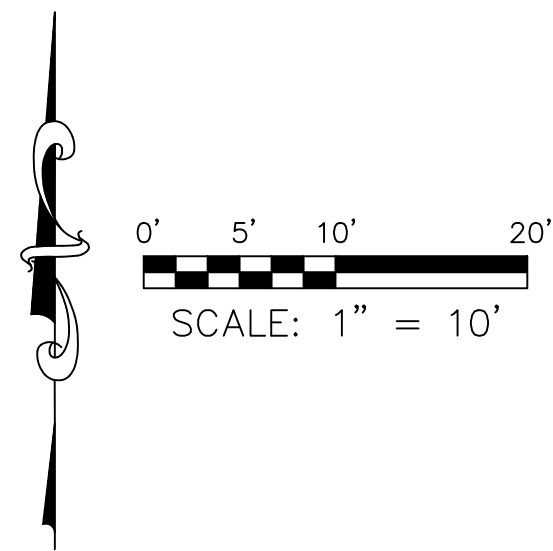
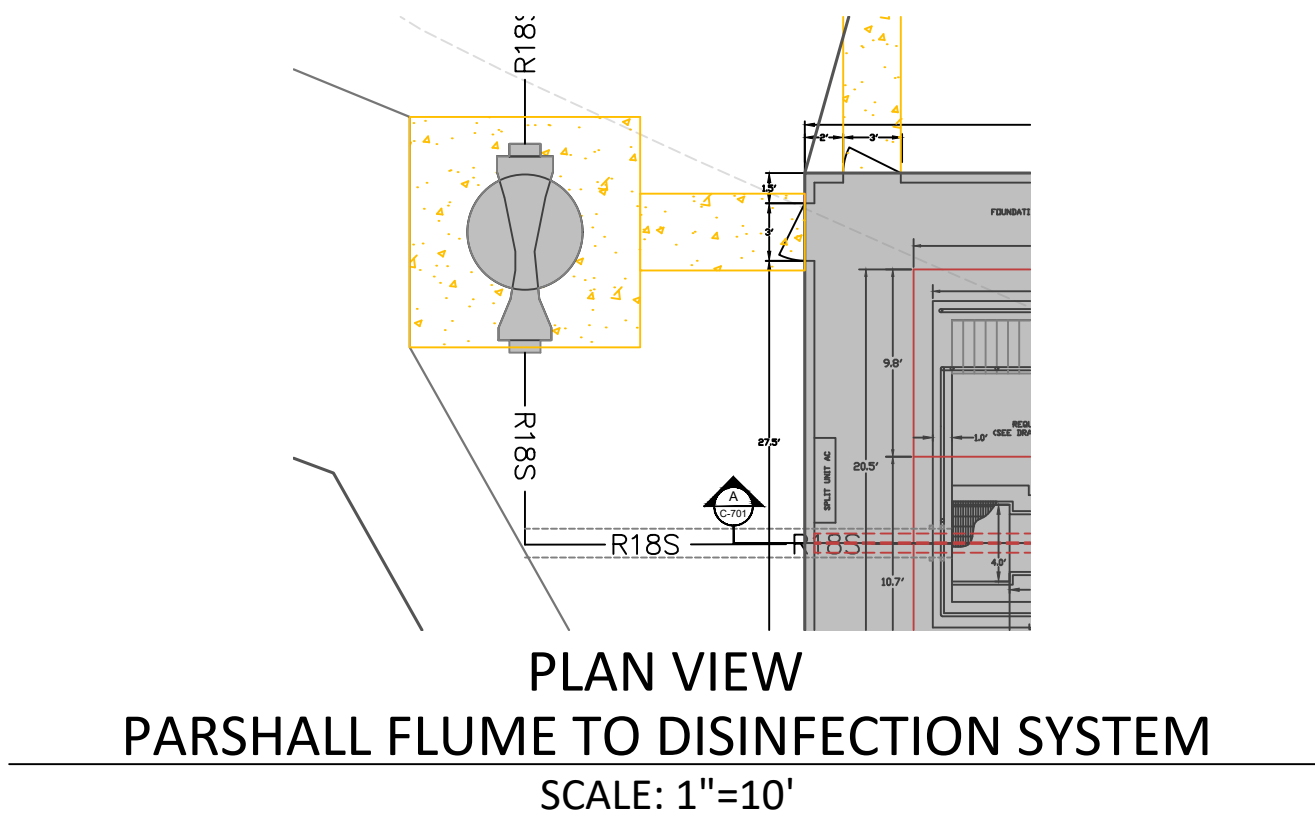
Revisions:
6/18/2024
ADDENDUM 3

Revisions:

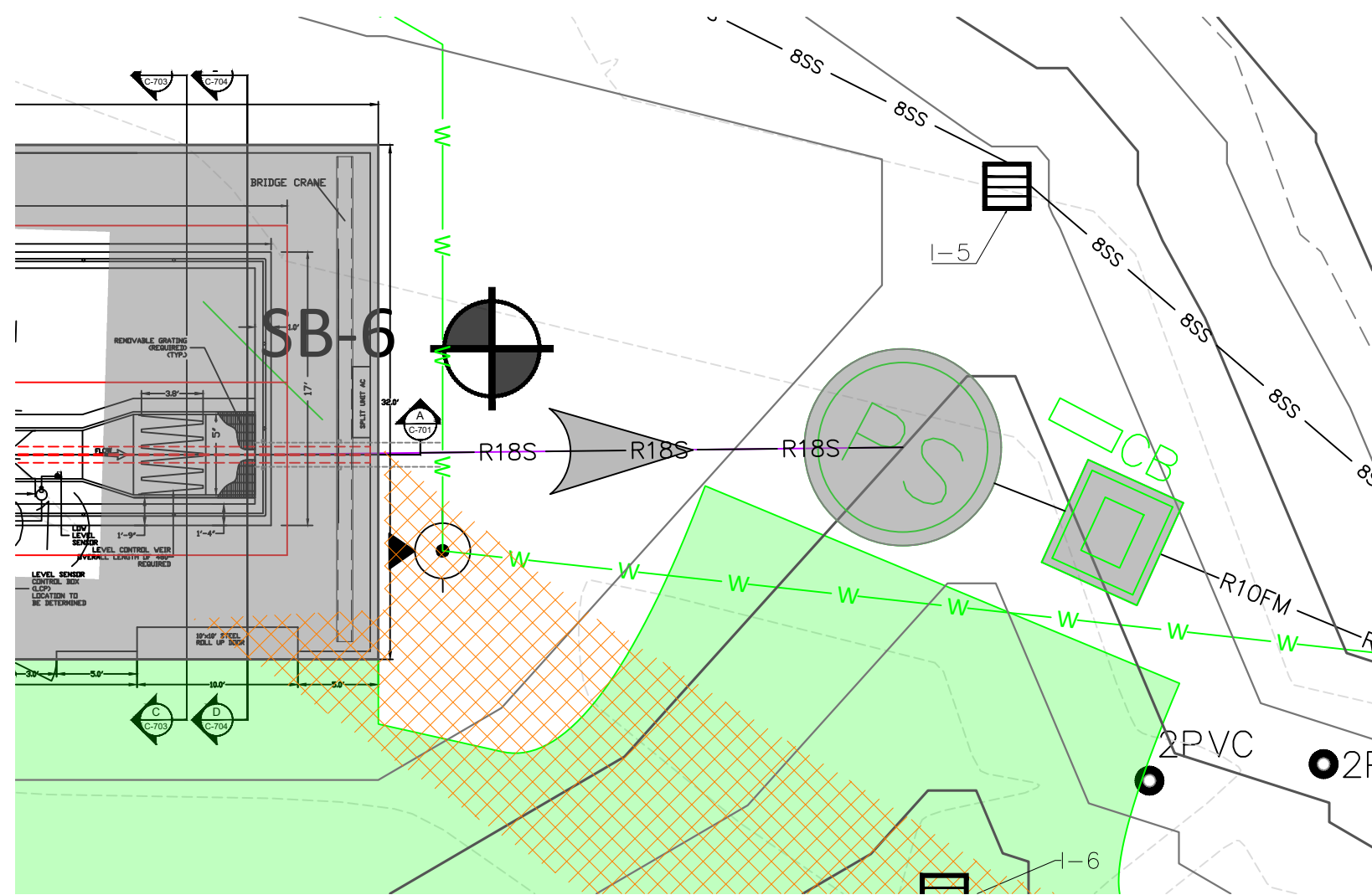
Revisions:

PLAN & PROFILE -
FILTER TO PARSHALL
FLUME

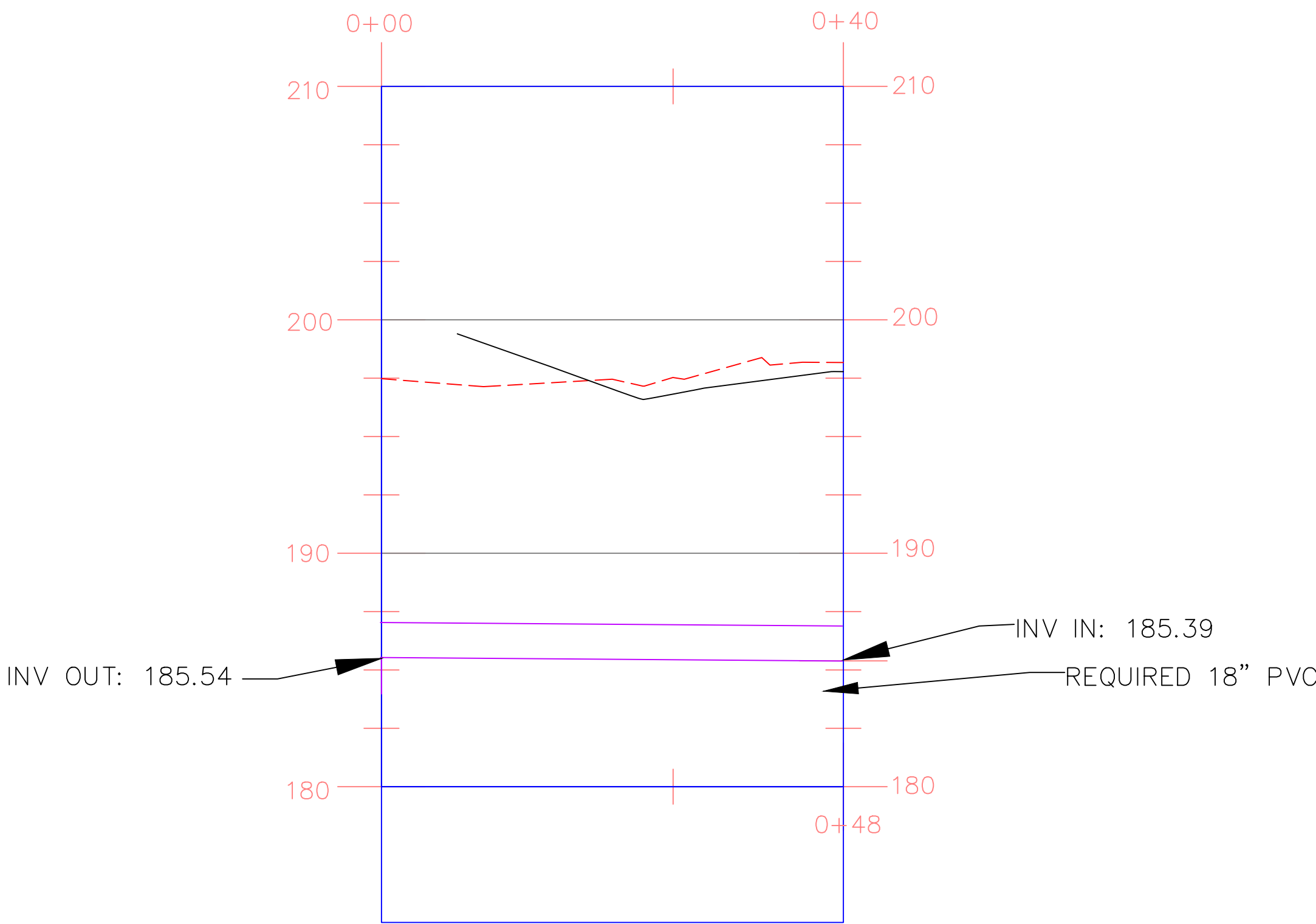
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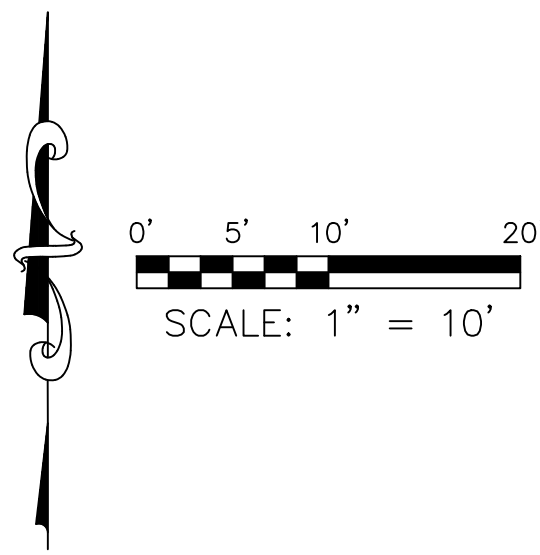
PROFILE VIEW
PARSHALL FLUME TO DISINFECTION SYSTEM
SCALE: 1"=10'H/1"=5'V



PLAN VIEW
DISINFECTION SYSTEM TO EFFLUENT PUMP STATION
SCALE: 1"=10'



PROFILE VIEW
DISINFECTION SYSTEM TO EFFLUENT PUMP STATION
SCALE: 1"=10'H/1"=5'V



- LEGEND:
- 200 --- EXISTING MAJOR CONTOURS (FEET)
 - 201 --- EXISTING MINOR CONTOURS (FEET)
 - 200 — REQUIRED MAJOR CONTOURS (FEET)
 - 201 — REQUIRED MINOR CONTOURS (FEET)
 - R18S — REQUIRED 18" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
 - ▲ FLOW DIRECTION
 - EXISTING GRAVEL AREA
 - PS REQUIRED EFFLUENT PUMP STATION (SEE DRAWING C-802)



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Burle Proj. No.:
08194-1-0122

File Name:
PLAN AND PROFILES.dwg

Date: 04/29/2024

Scale: AS SHOWN

Drawn by: MJJ/JRG

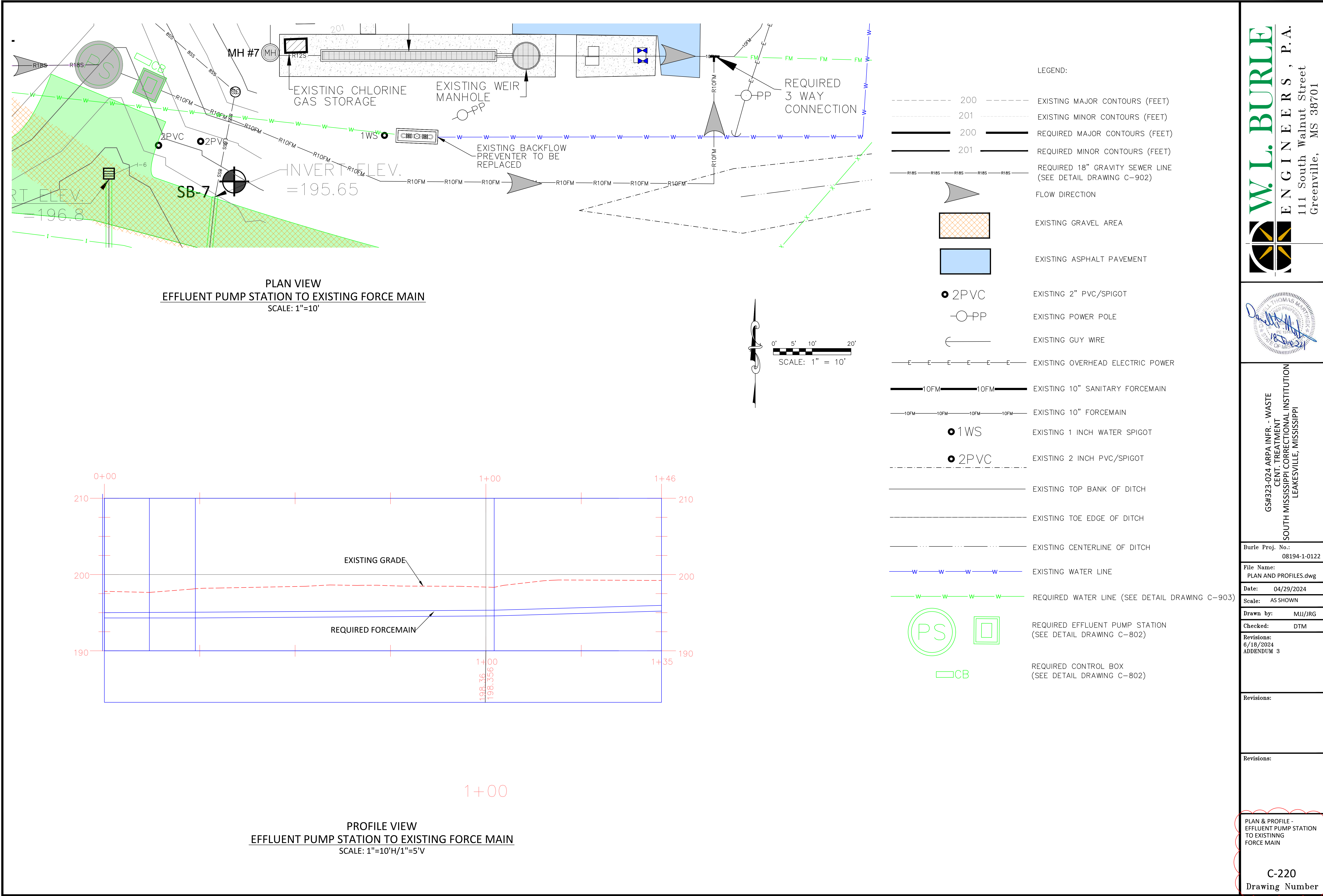
Checked: DTM

Revisions:
6/18/2024
ADDENDUM 3

Revisions:

Revisions:

PLAN & PROFILE -
DISINFECTION SYSTEM TO
EFFLUENT PUMP STATION



W.L. BURLE

ENGINEERS, P.A.

111 South Walnut Street

Greenville, MS 38701

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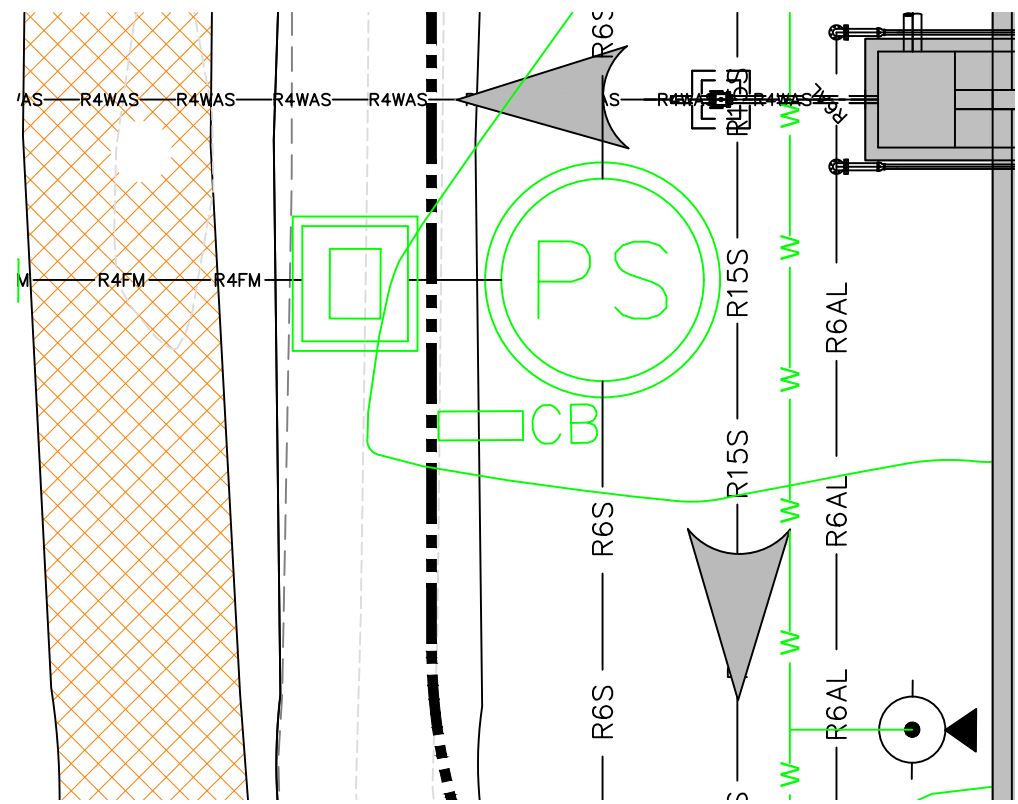
Revisions:
6/18/2024
ADDENDUM 3

Revisions:

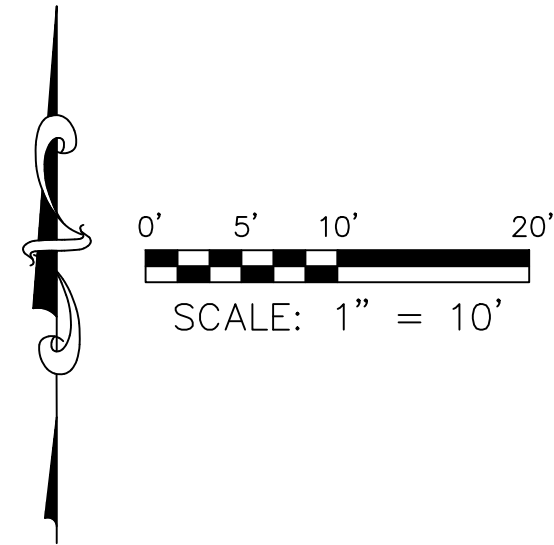
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PLAN & PROFILE -
EFFLUENT PUMP STATION
TO EXISTING
FORCE MAIN

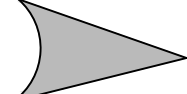
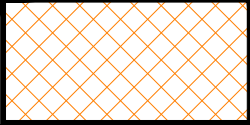
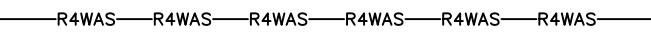
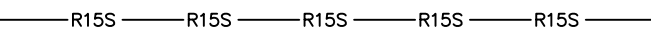
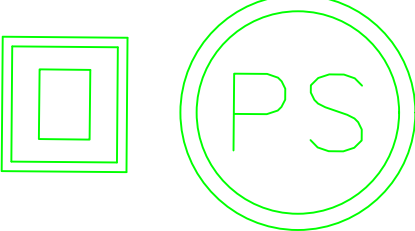
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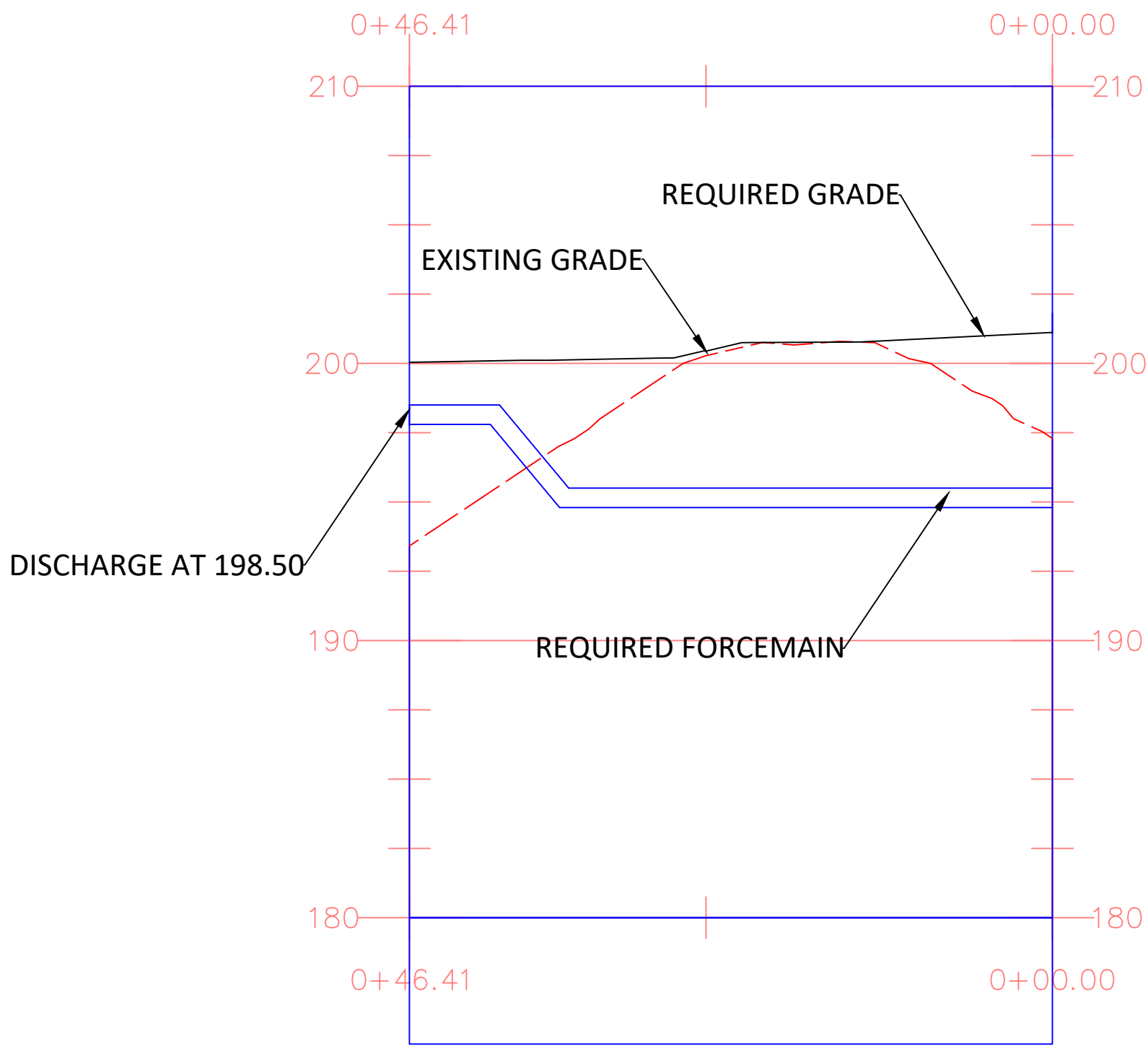


PLAN VIEW
SCUM PUMP STATION TO WEST LAGOON
SCALE: 1"=10'



LEGEND:

- 200 --- EXISTING MAJOR CONTOURS (FEET)
- 201 --- EXISTING MINOR CONTOURS (FEET)
- 200 — REQUIRED MAJOR CONTOURS (FEET)
- 201 — REQUIRED MINOR CONTOURS (FEET)
-  FLOW DIRECTION
-  EXISTING GRAVEL AREA
-  REQUIRED WATER LINE (SEE DETAIL DRAWING C-903)
-  REQUIRED 4" WAS LINE (SEE DETAIL DRAWING C-902)
-  REQUIRED 6" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
-  REQUIRED 15" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
-  REQUIRED 6" AIR LINE (SEE DETAIL DRAWING C-902)
-  REQUIRED SCUM PUMPING STATION
(SEE DETAIL DRAWING C-804)



PROFILE VIEW
SCUM PUMP STATION TO WEST LAGOON
SCALE: 1"=10'H/1"=5'V



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Burle Proj. No.:
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File Name:
PLAN AND PROFILES.dwg

Date: 04/29/2024

Scale: AS SHOWN

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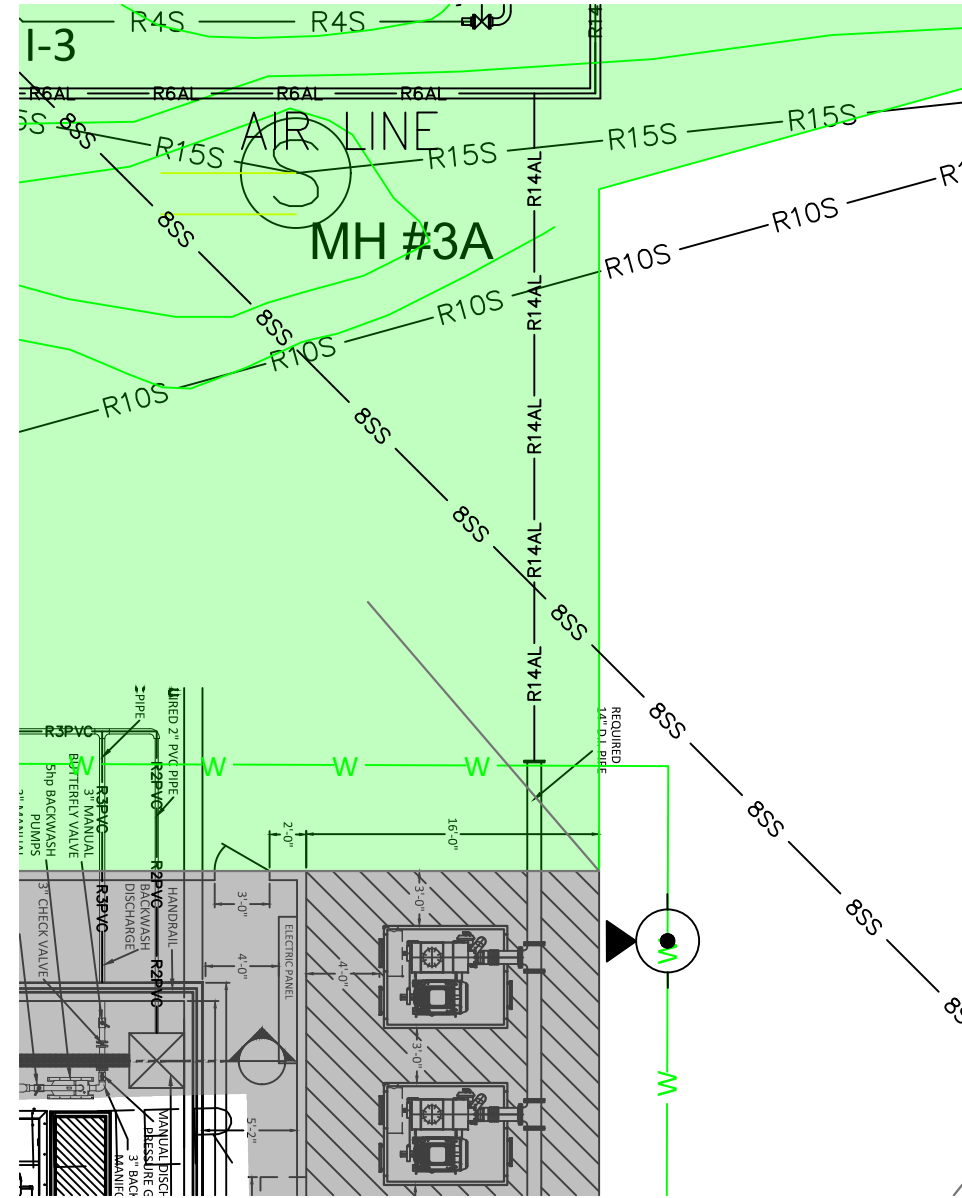
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Revisions:
6/18/2024
ADDENDUM 3

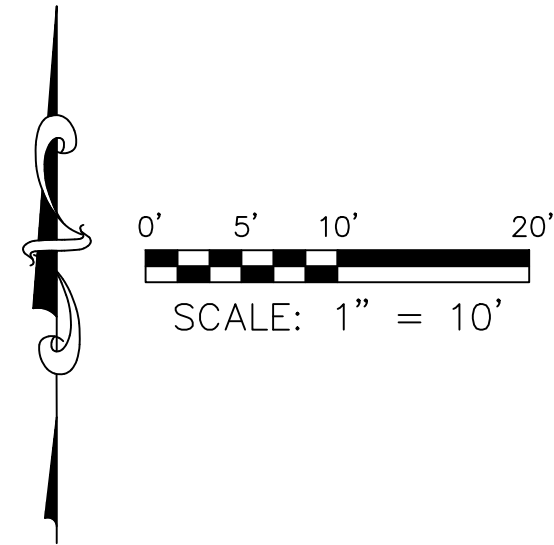
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Revisions:

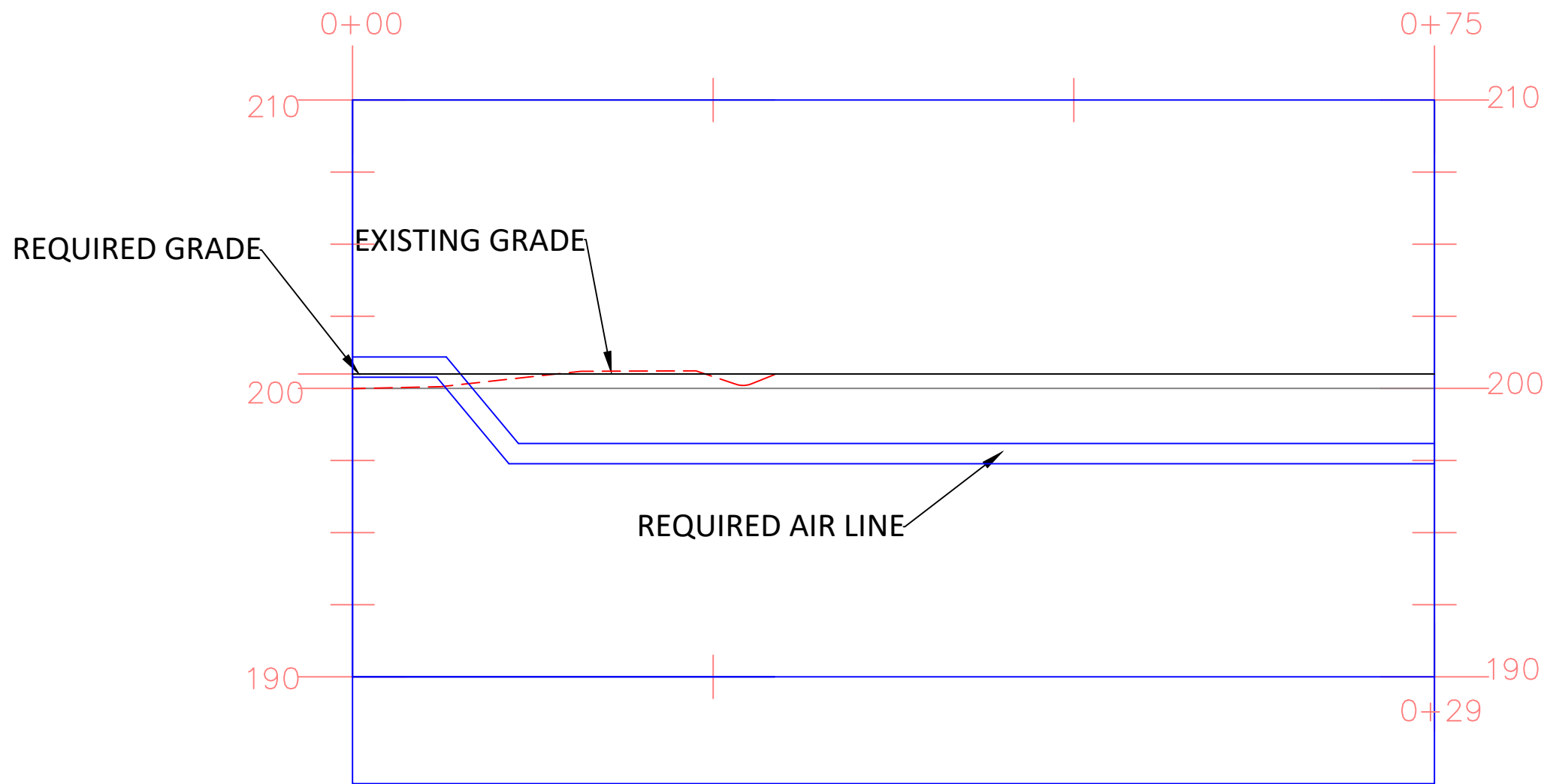
PLAN & PROFILE -
SCUM PUMP STATION TO
WEST LAGOON



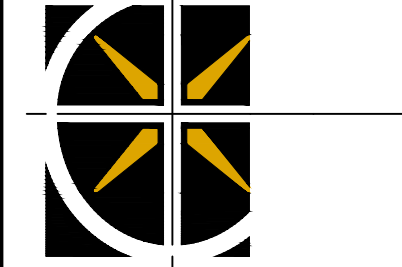
PLAN VIEW
AIR BLOWERS TO EAST LAGOON
SCALE: 1"=10'



- LEGEND:
- 200 ----- EXISTING MAJOR CONTOURS (FEET)
 - 201 ----- EXISTING MINOR CONTOURS (FEET)
 - ===== 200 ===== REQUIRED MAJOR CONTOURS (FEET)
 - ===== 201 ===== REQUIRED MINOR CONTOURS (FEET)
 - R14AL ----- R14AL ----- R14AL ----- R14AL ----- R14AL ----- REQUIRED 14" AIR LINE (SEE DETAIL DRAWING C-902)
 - R6AL ----- R6AL ----- R6AL ----- R6AL ----- R6AL ----- REQUIRED 6" AIR LINE (SEE DETAIL DRAWING C-902)
 - R4S ----- R4S ----- R4S ----- R4S ----- R4S ----- REQUIRED 4" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
 - R10S ----- R10S ----- R10S ----- R10S ----- R10S ----- REQUIRED 10" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
 - R15S ----- R15S ----- R15S ----- R15S ----- R15S ----- REQUIRED 15" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
 - W ----- W ----- W ----- W ----- W ----- REQUIRED WATER LINE (SEE DETAIL DRAWING C-903)
 - R3PVC ----- R3PVC ----- R3PVC ----- R3PVC ----- R3PVC ----- REQUIRED 3" PVC (SEE DETAIL DRAWING C-902)
 - R2PVC ----- R2PVC ----- R2PVC ----- R2PVC ----- R2PVC ----- REQUIRED 2" PVC (SEE DETAIL DRAWING C-902)
 - [Hatched Box] REQUIRED GRAVEL (SEE DETAIL DRAWING C-904)
 - [Cross-hatched Box] EXISTING GRAVELED AREA



PROFILE VIEW
AIR BLOWERS TO EAST LAGOON
SCALE: 1"=10'H/1"=5'V



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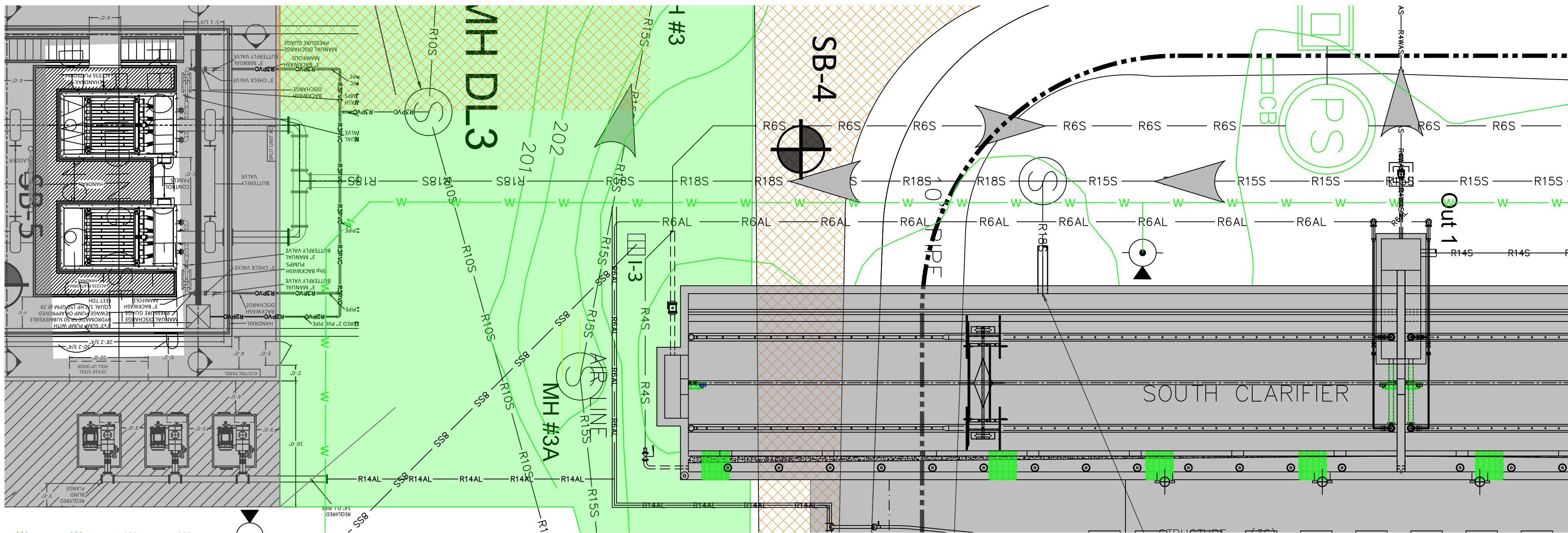
Revisions:
6/18/2024
ADDENDUM 3

Revisions:

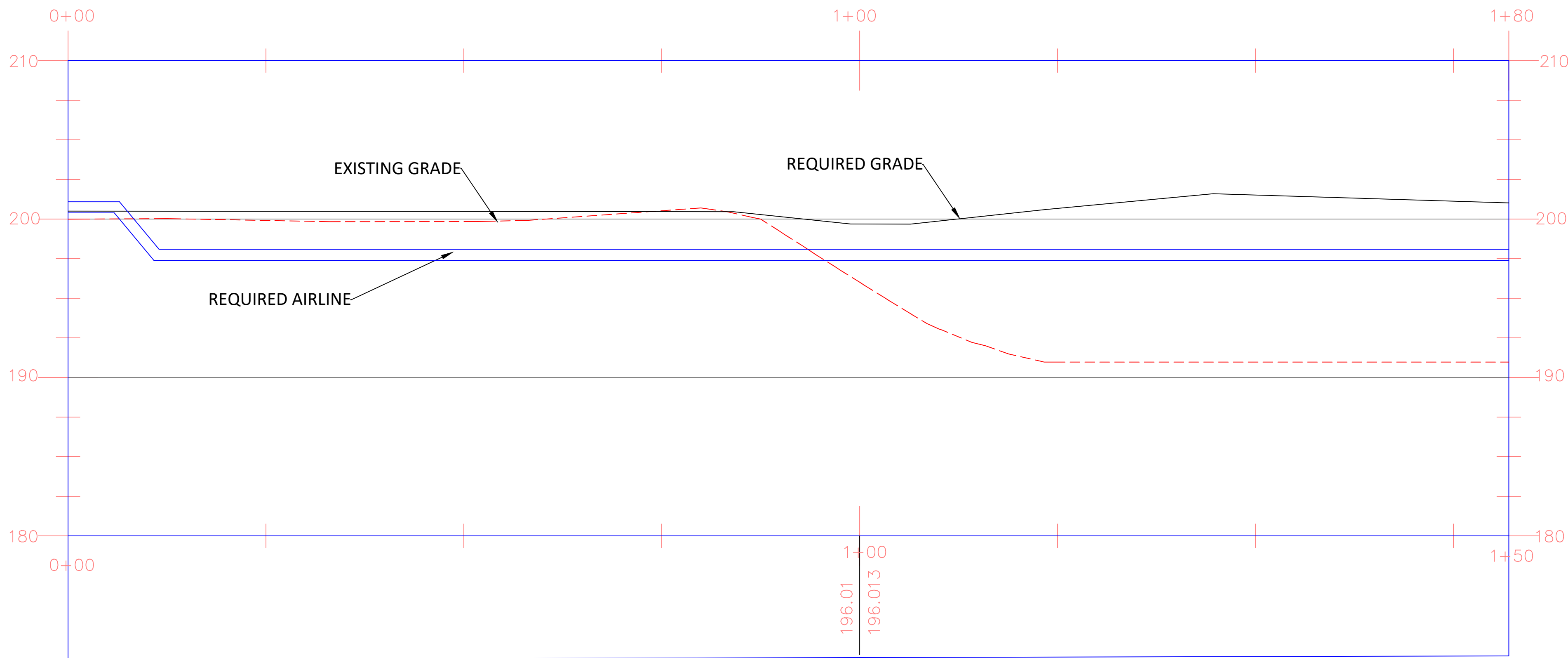
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PLAN & PROFILE -
AIR BLOWERS TO EAST
LAGOON

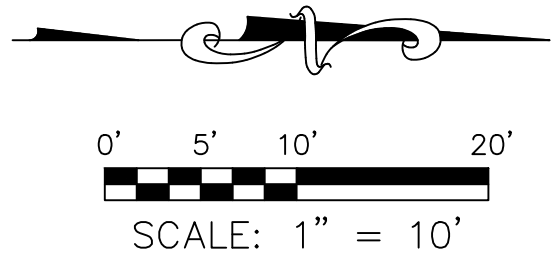
C-223
Drawing Number



PLAN VIEW
AIR BLOWERS TO CLARIFIER
SCALE: 1"=10'



PROFILE VIEW
AIR BLOWERS TO CLARIFIER
SCALE: 1"=10'H/1"=5'V



LEGEND:

- 200

EXISTING MAJOR CONTOURS (FEET)
- 201

EXISTING MINOR CONTOURS (FEET)
- 200

REQUIRED MAJOR CONTOURS (FEET)
- 201

REQUIRED MINOR CONTOURS (FEET)
- R14AL R14AL R14AL R14AL R14AL

REQUIRED 14" AIR LINE (SEE DETAIL DRAWING C-902)
- R6AL R6AL R6AL R6AL R6AL

REQUIRED 6" AIR LINE (SEE DETAIL DRAWING C-902)
- R4S R4S R4S R4S R4S

REQUIRED 4" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
- R10S R10S R10S R10S R10S

REQUIRED 10" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
- R15S R15S R15S R15S R15S

REQUIRED 15" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
- R18S R18S R18S R18S R18S

REQUIRED 18" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
- W W W W W

REQUIRED WATER LINE (SEE DETAIL DRAWING C-903)
- R3PVC R3PVC R3PVC R3PVC R3PVC

REQUIRED 3" PVC (SEE DETAIL DRAWING C-902)
- R2PVC R2PVC R2PVC R2PVC R2PVC

REQUIRED 2" PVC (SEE DETAIL DRAWING C-902)
- 12SS 12SS 12SS 12SS 12SS

REQUIRED 12 INCH STORM SEWER PIPE (SEE DETAIL DRAWING C-907)
- REQUIRED GRAVEL (SEE DETAIL DRAWING C-904)
- EXISTING GRAVELED AREA
- REQUIRED HYDRANT (SEE DETAIL DRAWING C-903)
- I-3

REQUIRED SURFACE INLET
(SEE DETAIL DRAWING C-907)
(SEE TABLE DRAWING C-204)



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File Name:
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Date: 04/29/2024

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Drawn by: MJJ/JRG

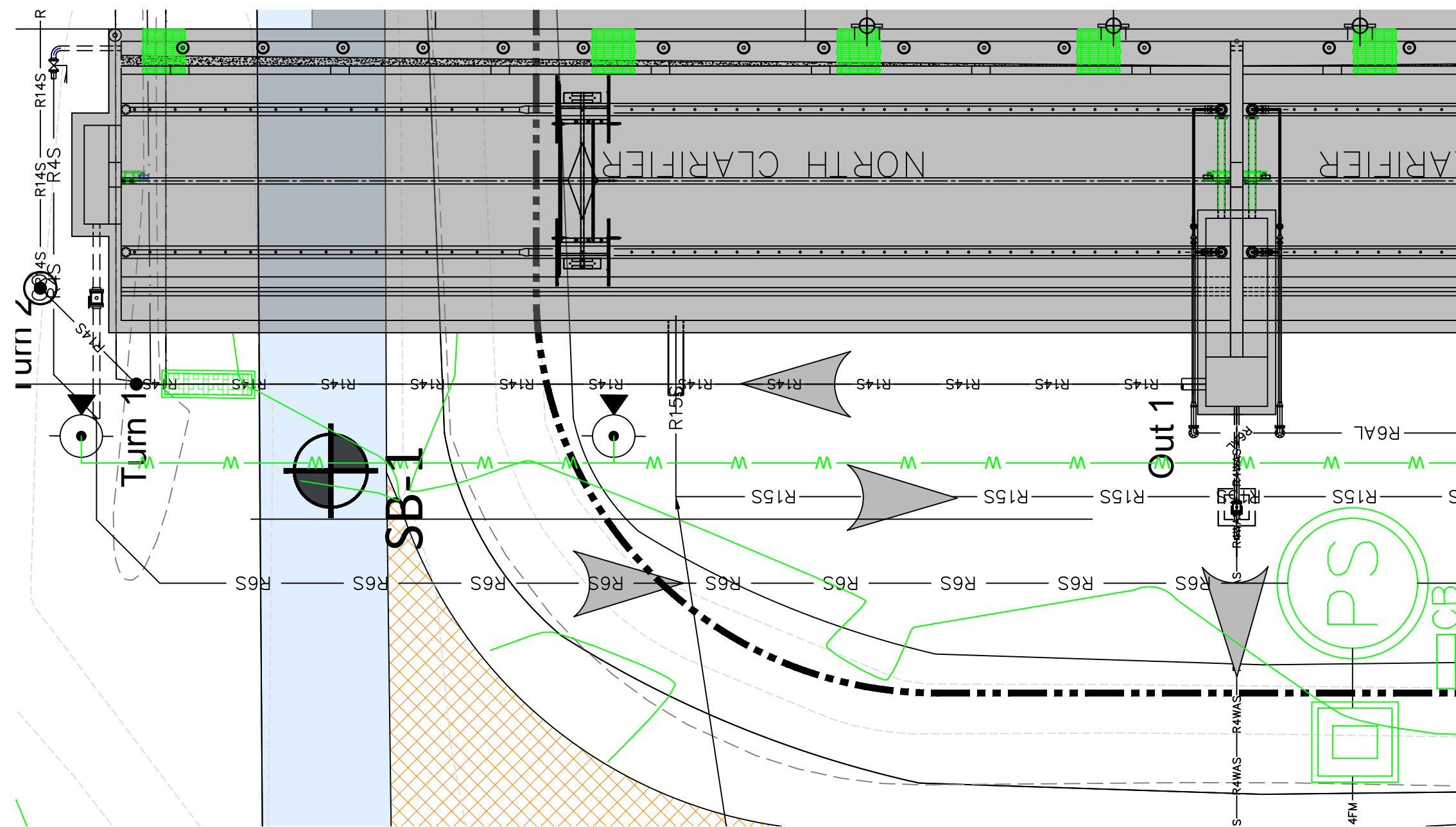
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Revisions:
6/18/2024
ADDENDUM 3

Revisions:

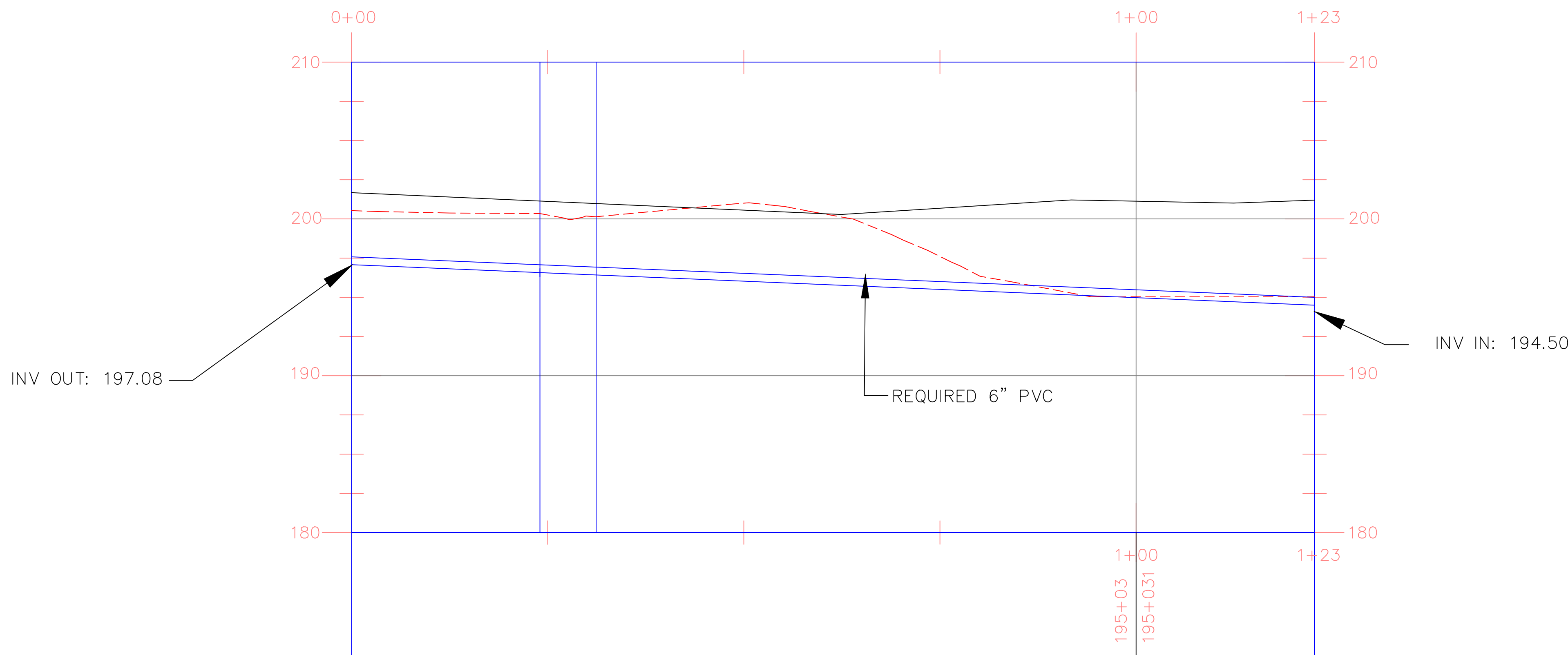
Revisions:

PLAN & PROFILE -
AIR BLOWERS TO
CLARIFIERS



PLAN VIEW
NORTH CLARIFIER TO SCUMP PUMP
SCALE: 1"=10'

- LEGEND:
- 200 --- EXISTING MAJOR CONTOURS (FEET)
 - 201 --- EXISTING MINOR CONTOURS (FEET)
 - 200 — REQUIRED MAJOR CONTOURS (FEET)
 - 201 — REQUIRED MINOR CONTOURS (FEET)
 - R4WAS — R4WAS — R4WAS — R4WAS — R4WAS — R4WAS — REQUIRED 4" WAS LINE (SEE DETAIL DRAWING C-902)
 - R6S — R6S — R6S — R6S — R6S — R6S — REQUIRED 6" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
 - R6AL — R6AL — R6AL — R6AL — R6AL — R6AL — REQUIRED 6" AIR LINE (SEE DETAIL DRAWING C-902)
 - R12S — R12S — R12S — R12S — R12S — R12S — REQUIRED 12" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
 - R15S — R15S — R15S — R15S — R15S — R15S — REQUIRED 15" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
 - W — W — W — W — W — W — REQUIRED WATER LINE (SEE DETAIL DRAWING C-903)
 - REQUIRED GRAVEL (SEE DETAIL DRAWING C-904)
 - EXISTING GRAVELED AREA
 - REQUIRED SCUM PUMPING STATION (SEE DETAIL DRAWING C-804)
 - REQUIRED HYDRANT (SEE DETAIL DRAWING C-903)



PROFILE VIEW
NORTH CLARIFIER TO SCUMP PUMP
SCALE: 1"=10'H/1"=5'V



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LEAKESVILLE, MISSISSIPPI

Burle Proj. No.:
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File Name:
PLAN AND PROFILES.dwg

Date: 04/29/2024

Scale: AS SHOWN

Drawn by: MJJ/JRG

Checked: DTM

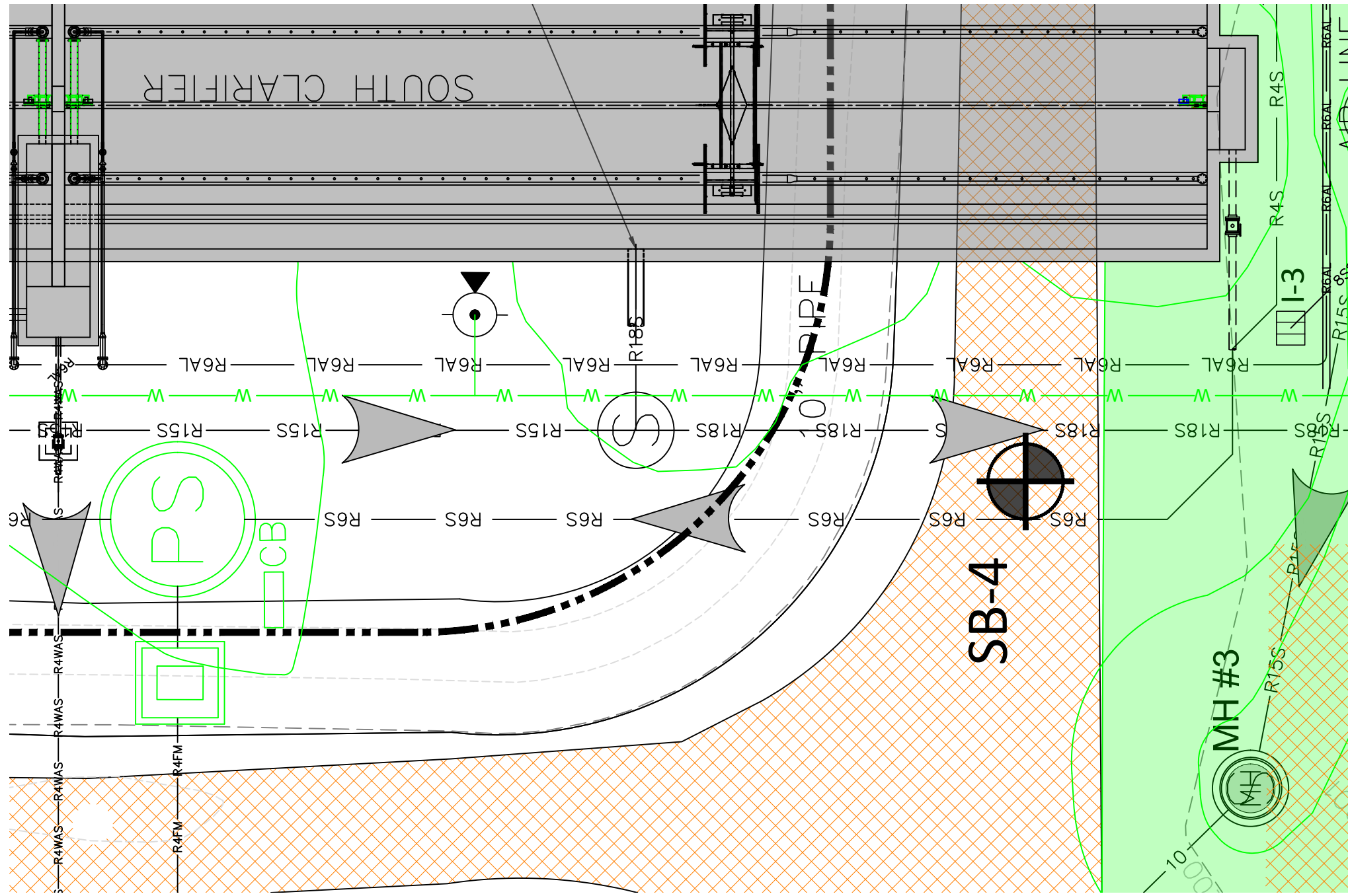
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6/18/2024
ADDENDUM 3

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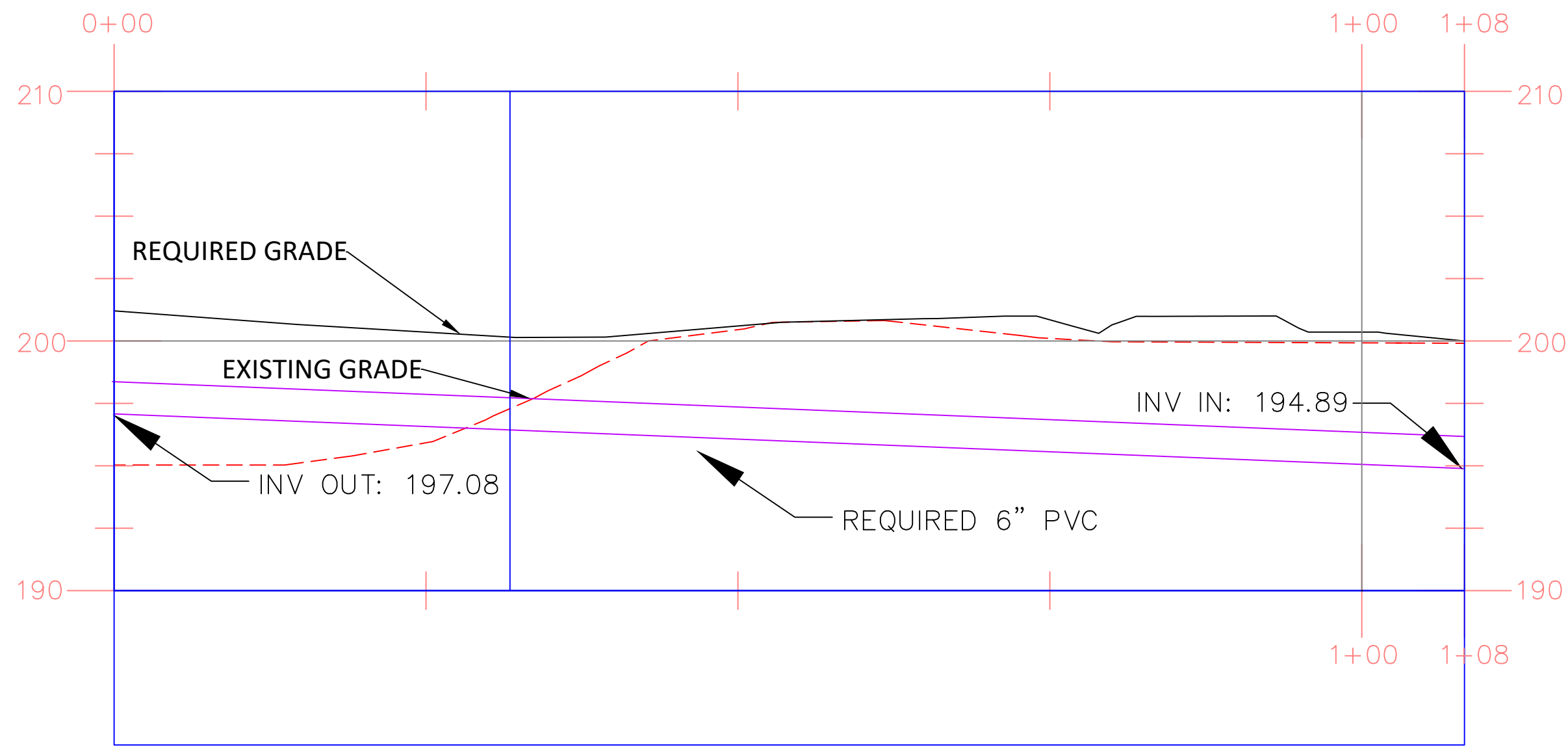
Revisions:

PLAN & PROFILE -
NORTH CLARIFIER TO
SCUMP PUMP STATION

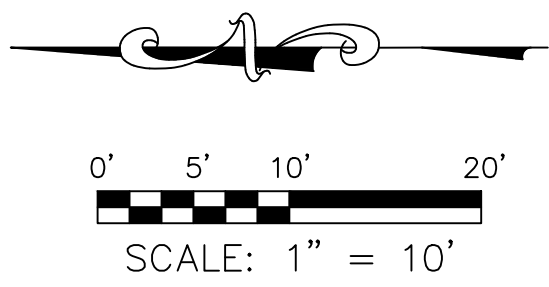
C-225
Drawing Number



PLAN VIEW
SOUTH CLARIFIER TO SCUMP PUMP
SCALE: 1"=10'

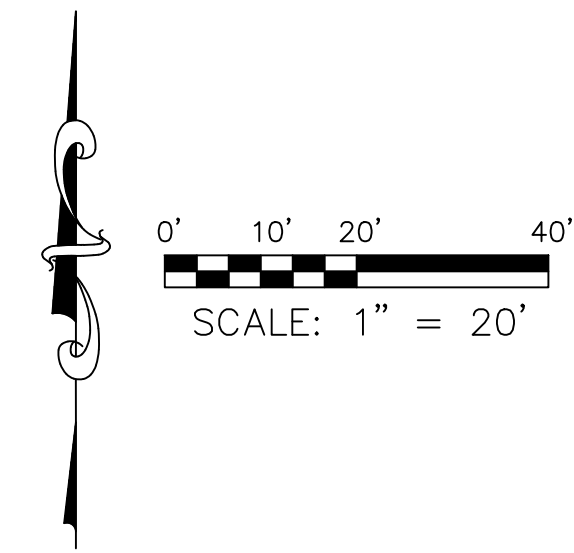


PROFILE VIEW
SOUTH CLARIFIER TO SCUMP PUMP
SCALE: 1"=10'H/1"=5'V

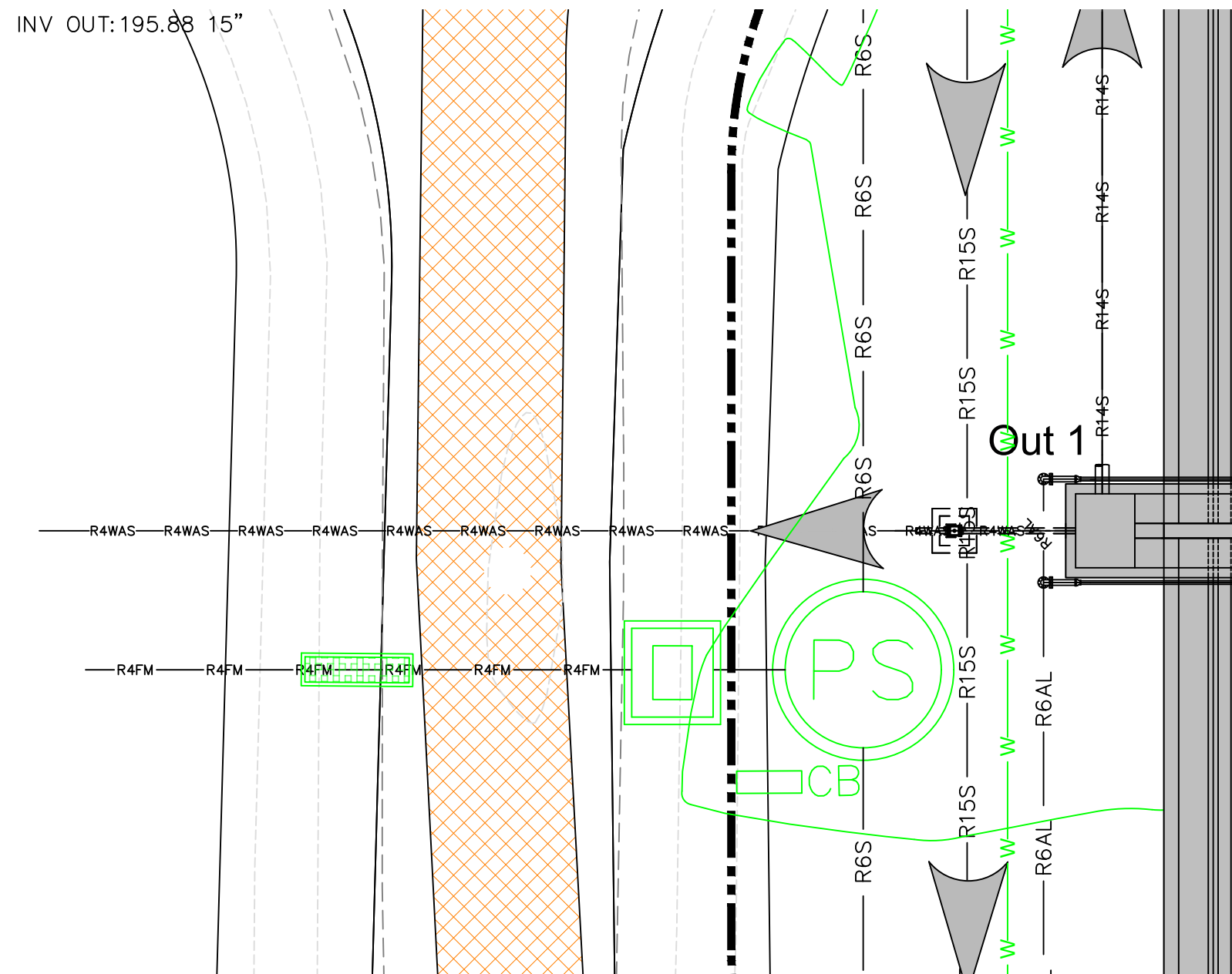


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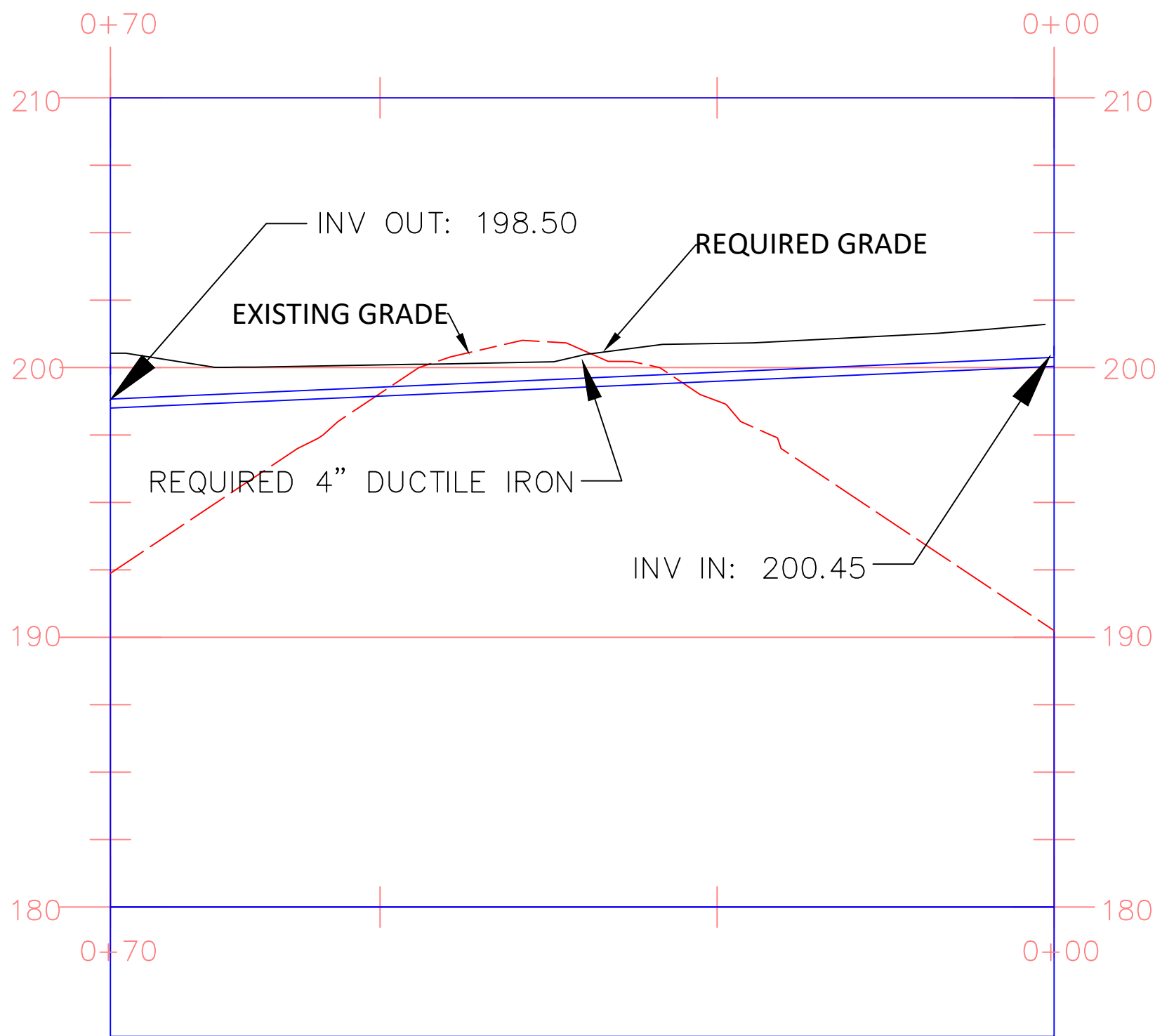
---	200	---	EXISTING MAJOR CONTOURS (FEET)
---	201	---	EXISTING MINOR CONTOURS (FEET)
---	200	---	REQUIRED MAJOR CONTOURS (FEET)
---	201	---	REQUIRED MINOR CONTOURS (FEET)
---	R4WAS	---	REQUIRED 4" WAS LINE (SEE DETAIL DRAWING C-902)
---	R4S	---	REQUIRED 4" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
---	R6S	---	REQUIRED 6" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
---	R6AL	---	REQUIRED 6" AIR LINE (SEE DETAIL DRAWING C-902)
---	R12S	---	REQUIRED 12" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
---	R15S	---	REQUIRED 15" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
---	R18S	---	REQUIRED 18" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
---	8FM	---	REQUIRED 8" FORCE MAIN (SEE DETAIL DRAWING C-902)
---	W	---	REQUIRED WATER LINE (SEE DETAIL DRAWING C-903)
---		---	REQUIRED GRAVEL (SEE DETAIL DRAWING C-904)
---		---	EXISTING GRAVELED AREA
---	MH #1	---	EXISTING MANHOLE
---	PS	---	REQUIRED SCUM PUMPING STATION (SEE DETAIL DRAWING C-804)
---		---	REQUIRED HYDRANT (SEE DETAIL DRAWING C-903)



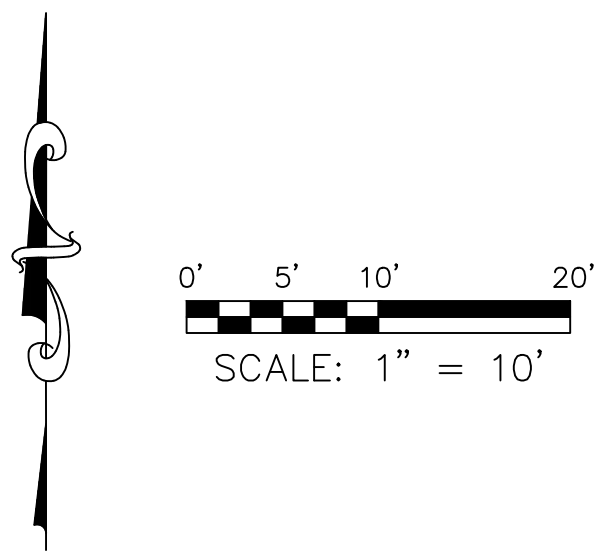
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	EXISTING MAJOR CONTOURS (FEET)
	EXISTING MINOR CONTOURS (FEET)
	REQUIRED MAJOR CONTOURS (FEET)
	REQUIRED MINOR CONTOURS (FEET)
	EXISTING WATER LINE
	EXISTING CHAIN-LINK FENCE
	REQUIRED 8" FORCE MAIN (SEE DETAIL DRAWING C-902)
	EXISTING CHAIN-LINK FENCE
	REQUIRED CHAIN-LINK FENCE (SEE DETAIL DRAWING C-905)
	EXISTING OVERHEAD ELECTRIC POWER LINE
	REQUIRED 4" WAS LINE (SEE DETAIL DRAWING C-902)
	REQUIRED 6" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
	REQUIRED 12" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
	REQUIRED 14" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
	REQUIRED 15" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
	REQUIRED 18" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
	REQUIRED WATER LINE (SEE DETAIL DRAWING C-903)
	REQUIRED 8 INCH STORM SEWER PIPE (SEE DETAIL DRAWING C-907)
	EXISTING TREE LINE TO REMAIN
	REQUIRED SCUM PUMPING STATION (SEE DETAIL DRAWING C-804)
	REQUIRED HYDRANT (SEE DETAIL DRAWING C-903)
	REQUIRED GRAVEL (SEE DETAIL DRAWING C-904)
	EXISTING GRAVELED AREA
	EXISTING MANHOLE
	REQUIRED SURFACE INLET (SEE DETAIL DRAWING C-907) (SEE TABLE DRAWING C-204)



PLAN VIEW
WAS LINE TO WEST LAGOON
SCALE: 1"=10'



PROFILE VIEW
WAS LINE TO WEST LAGOON
SCALE: 1"=10'H/1"=5'V

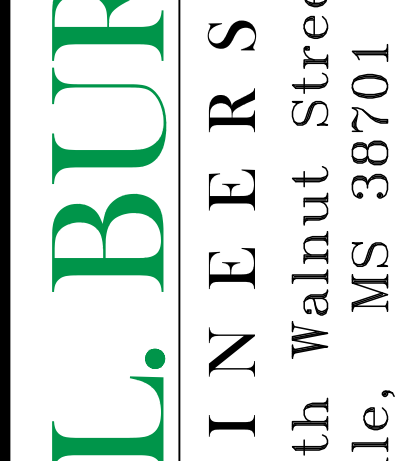


LEGEND:

- 200 --- EXISTING MAJOR CONTOURS (FEET)
- 201 --- EXISTING MINOR CONTOURS (FEET)
- 200 — REQUIRED MAJOR CONTOURS (FEET)
- 201 — REQUIRED MINOR CONTOURS (FEET)
- W — W — W — W — W — REQUIRED WATER LINE (SEE DETAIL DRAWING C-903)
- R4WAS — R4WAS — R4WAS — R4WAS — R4WAS — R4WAS — REQUIRED 4" WAS LINE (SEE DETAIL DRAWING C-902)
- R6S — R6S — R6S — R6S — R6S — R6S — REQUIRED 6" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
- R12S — R12S — R12S — R12S — R12S — R12S — REQUIRED 12" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
- R15S — R15S — R15S — R15S — R15S — R15S — REQUIRED 15" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)
- R6AL — R6AL — R6AL — R6AL — R6AL — R6AL — REQUIRED 6" AIR LINE (SEE DETAIL DRAWING C-902)
- R4FM — R4FM — R4FM — R4FM — R4FM — R4FM — REQUIRED 4" FORCE MAIN (SEE DETAIL DRAWING C-902)
- PS — REQUIRED SCUM PUMPING STATION (SEE DETAIL DRAWING C-804)
- FLOW DIRECTION
- EXISTING GRAVEL AREA



W.L. BURLE
ENGINEERS, P.A.
111 South Walnut Street
Greenville, MS 38701



Professional Engineer
State of Mississippi
No. 10000
Exp. 12/31/2024

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LEAKESVILLE, MISSISSIPPI

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Checked: DTM

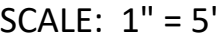
Revisions:
6/18/2024
ADDENDUM 3

Revisions:

Revisions:

PLAN & PROFILE -
WAS LINE TO WEST
LAGOON

C-228
Drawing Number



EXISTING MAJOR CONTOURS (FEET)

EXISTING MINOR CONTOURS (FEET)

REQUIRED MAJOR CONTOURS (FEET)

REQUIRED MINOR CONTOURS (FEET)

REQUIRED 3" FORCE MAIN

REQUIRED 8 STORM SEWER WA

REQUIRED IN-LINE FLOW METER

(SEE DRAWING C-903)

REQUIRED SURFACE INLET

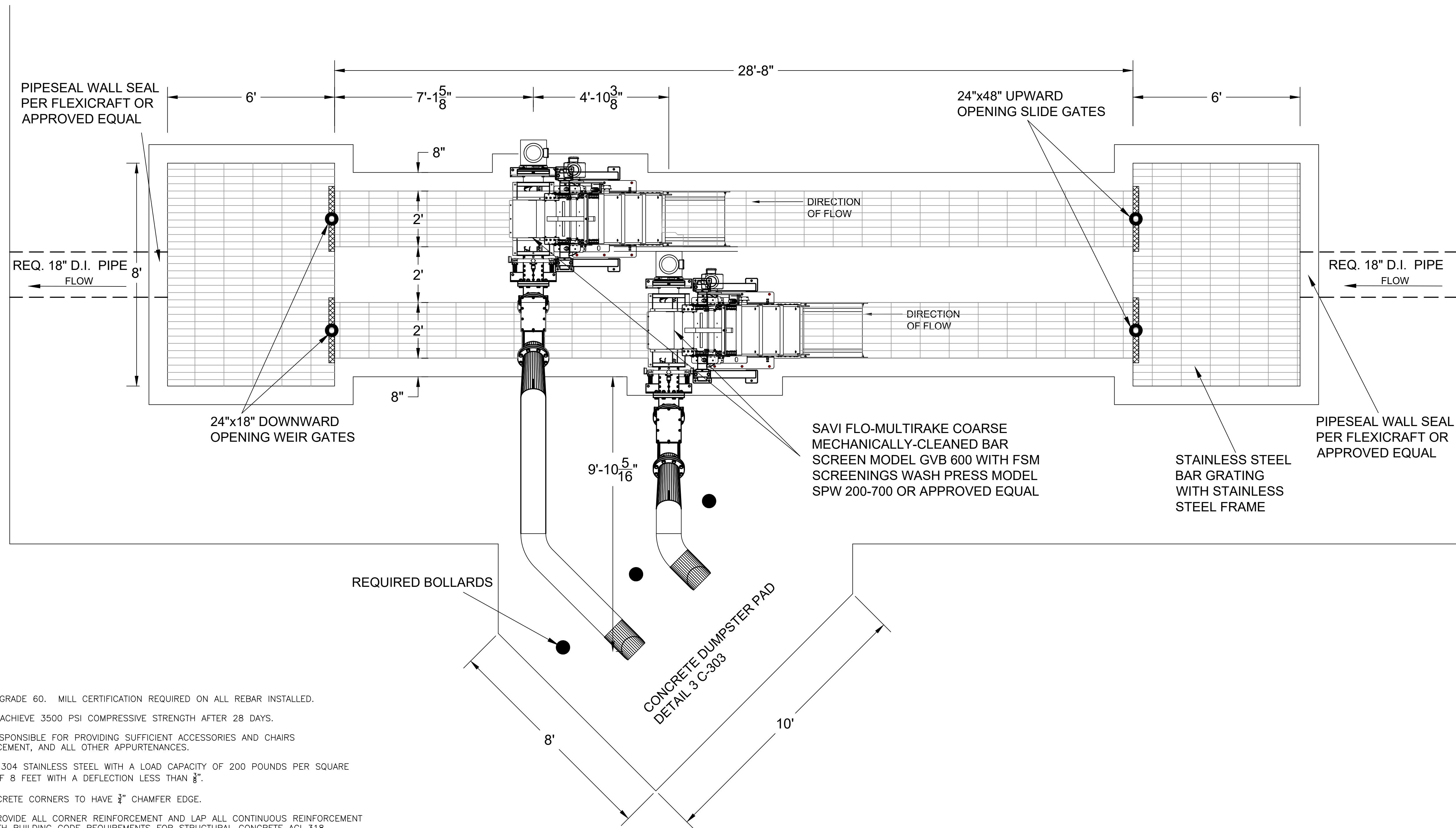
(SEE DETAIL DRAWING C-901)

(SEE DRAWING C-904)

REQUIRED 4" CONCRETE

(SEE DRAWING C-904)

REQUIRED HYDRANT

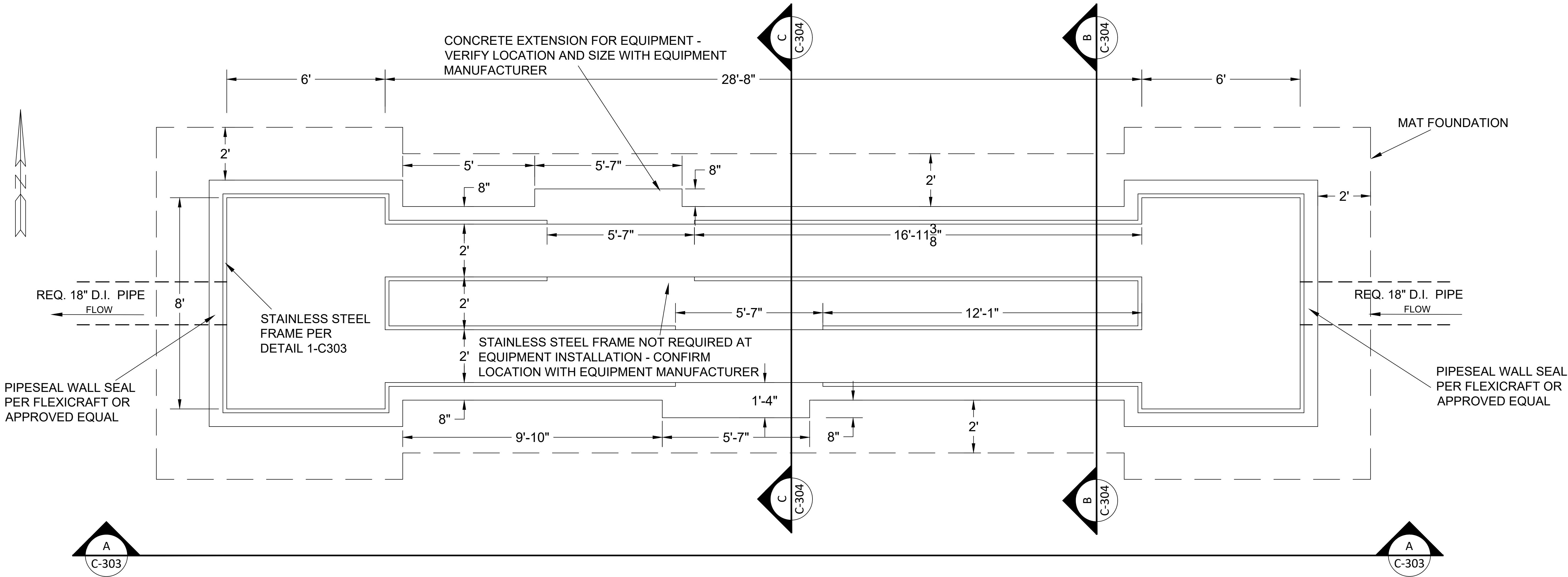


GENERAL NOTES:

1. ALL REBAR TO BE GRADE 60. MILL CERTIFICATION REQUIRED ON ALL REBAR INSTALLED.
2. ALL CONCRETE TO ACHIEVE 3500 PSI COMPRESSIVE STRENGTH AFTER 28 DAYS.
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT ACCESSORIES AND CHAIRS TO PLACE REINFORCEMENT, AND ALL OTHER APPURTENANCES.
4. BAR GRATE TO BE 304 STAINLESS STEEL WITH A LOAD CAPACITY OF 200 POUNDS PER SQUARE FOOT AT A SPAN OF 8 FEET WITH A DEFLECTION LESS THAN $\frac{1}{8}$ ".
5. ALL EXPOSED CONCRETE CORNERS TO HAVE $\frac{3}{4}$ " CHAMFER EDGE.
6. CONTRACTOR TO PROVIDE ALL CORNER REINFORCEMENT AND LAP ALL CONTINUOUS REINFORCEMENT IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318 BY AMERICAN CONCRETE INSTITUTE (ACI).
7. CONTRACTOR TO BACKFILL AROUND FINISHED CONCRETE STRUCTURE WITH EXISTING EXCAVATED SOIL. ALL BACKFILL SOIL AND EXISTING FOUNDATION SOILS TO BE COMPACTED TO 95% STANDARD PROCTOR ASTM D698.
8. CONTRACTOR TO PROVIDE POTABLE WATER SOURCE AND REQUIRED ELECTRICAL POWER AS REQUIRED BY MANUFACTURER EQUIPMENT SPECIFICATIONS.

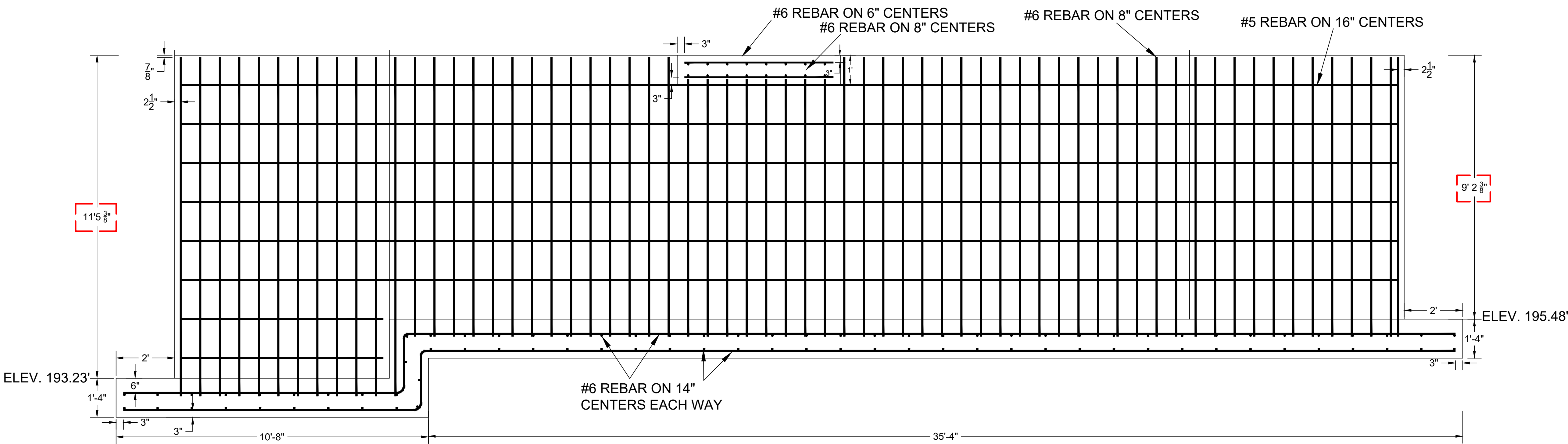
PLAN VIEW - COARSE MECHANICAL BAR SCREENS LAYOUT

SCALE: 1/2" = 1'



PLAN VIEW - CONCRETE STRUCTURE FOR COARSE MECHANICAL BAR SCREENS

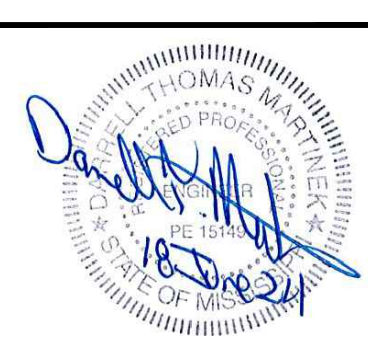
SCALE: 1/2" = 1'



SECTION - COARSE MECHANICAL BAR SCREENS

SCALE: 1/2" = 1'

W.L. BURLE
ENGINEERS, P.A.
111 South Walnut Street
Greenville, MS 38701



G5#323-024 ARPA INFR. - WASTE
CENT. TREATMENT
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LEAKESVILLE, MISSISSIPPI

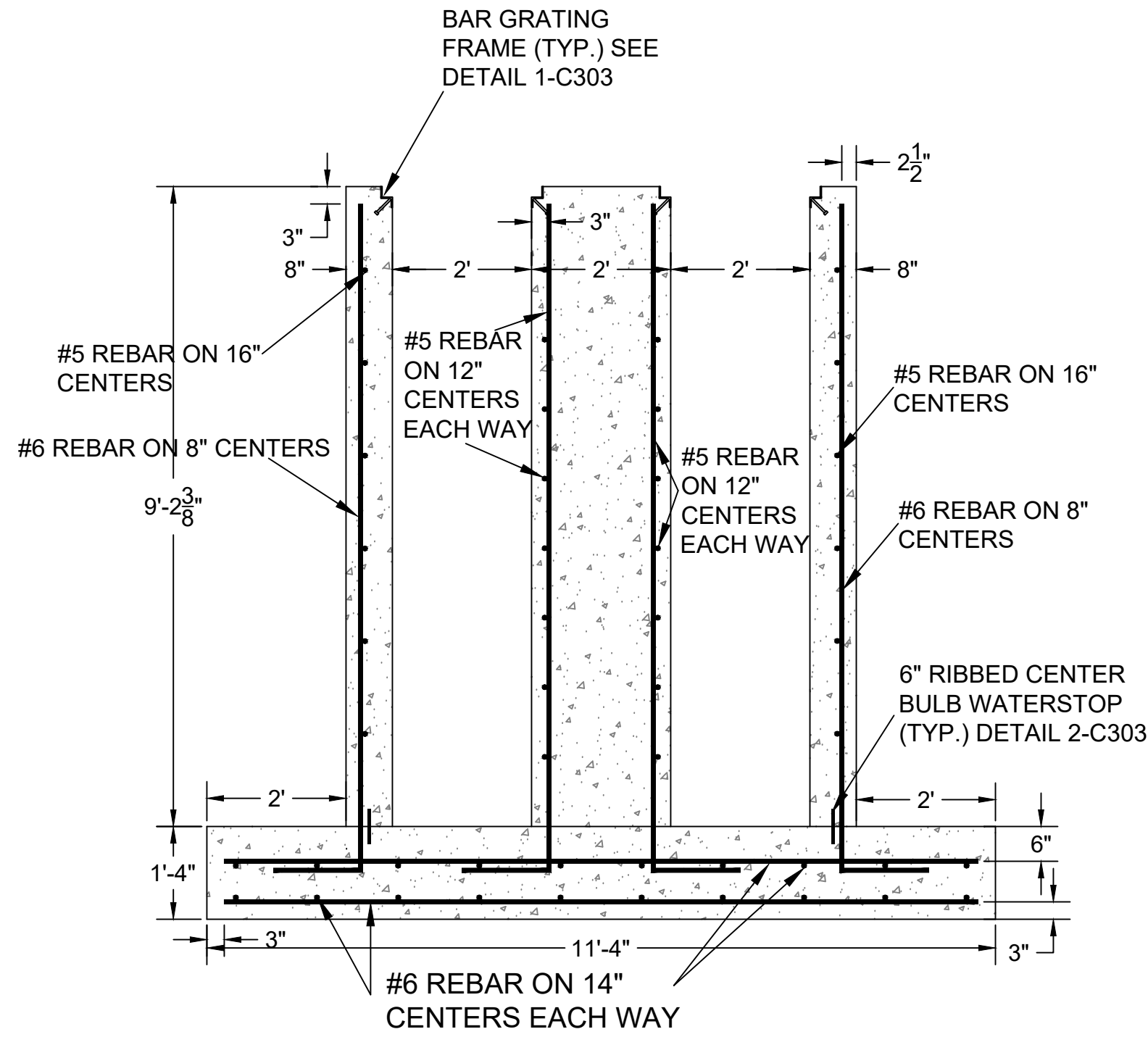
Burle Proj. No.:
08194-1-0122
File Name:
HEADWORKS COARSE-FINE SCREEN.DWG
Date: 04/29/2024
Scale: AS SHOWN
Drawn by: MJC
Checked: DTM
Revisions:
06/18/2024 ADDENDUM 3

Revisions:

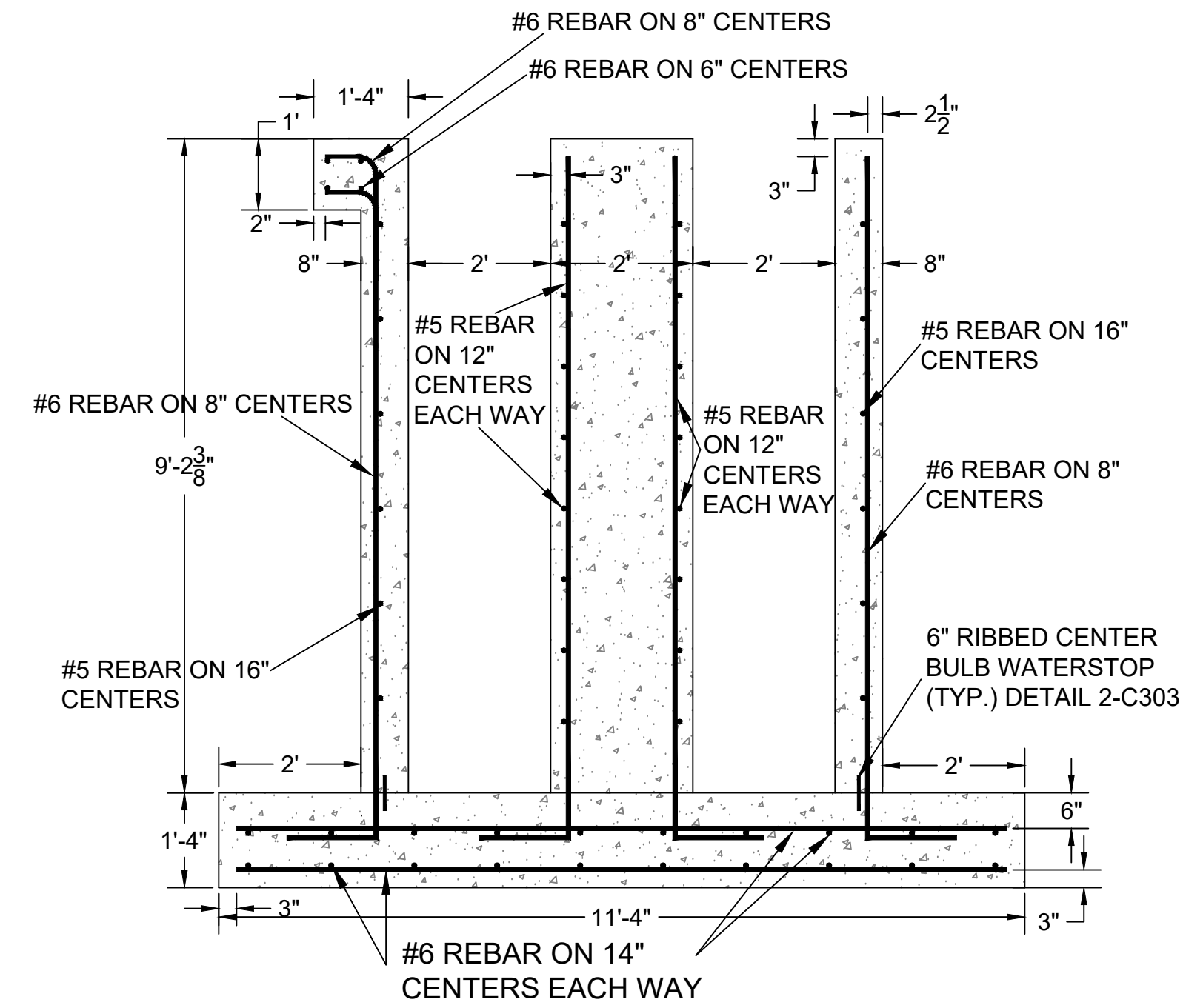
Revisions:

PLAN VIEW - CONCRETE
STRUCTURE FOR COARSE
MECHANICAL BAR
SCREENS

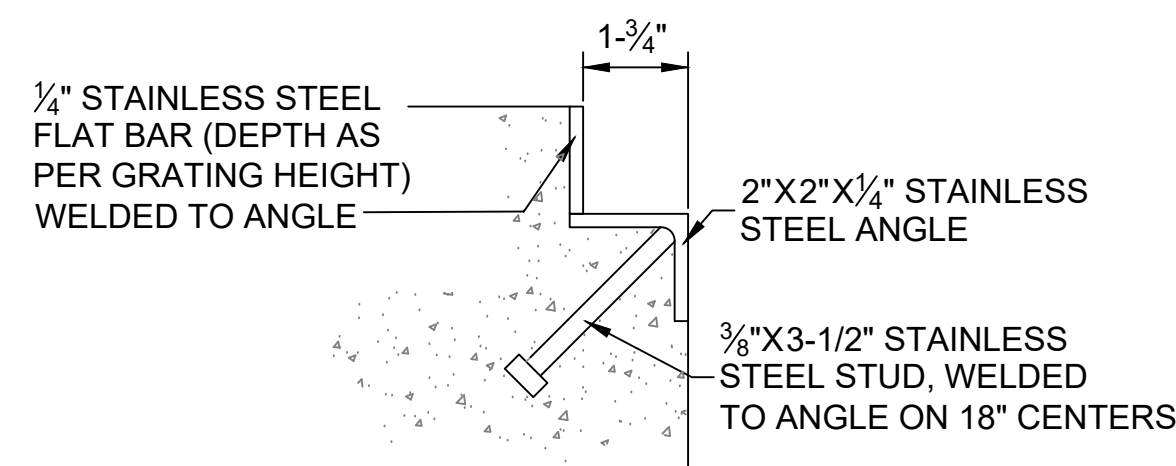
C-303
Drawing Number



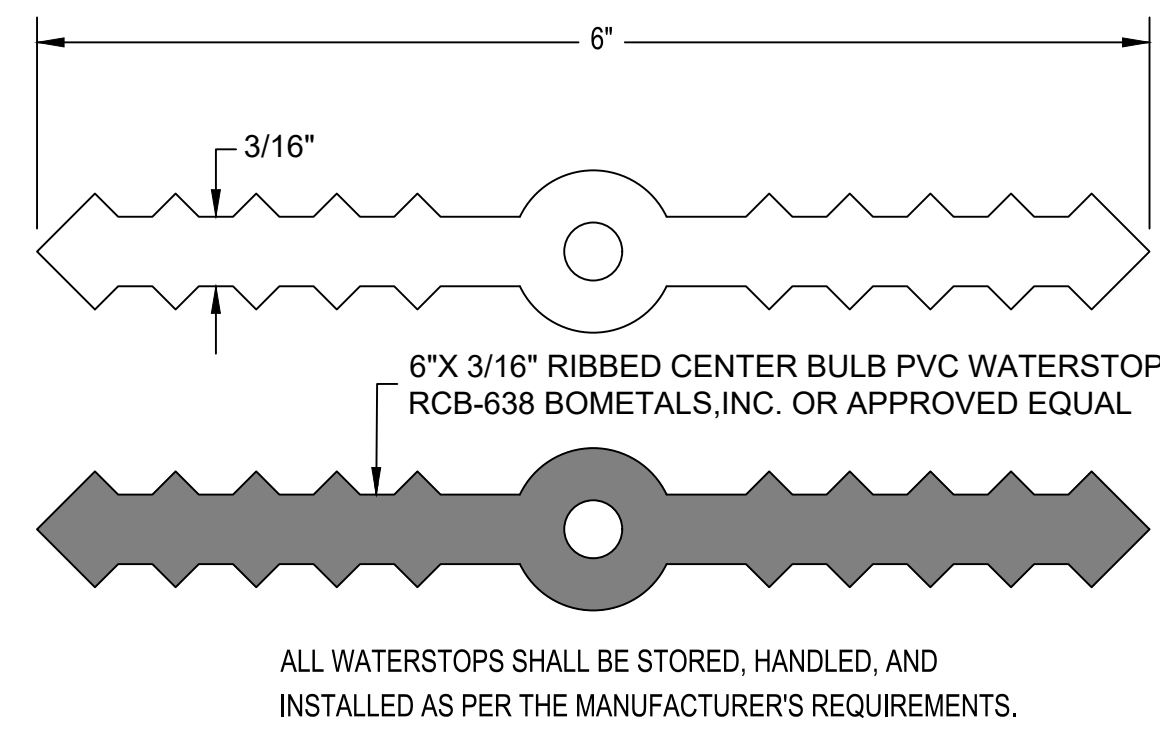
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SECTION - COARSE MECHANICAL BAR SCREENS
SCALE: 1/2" = 1'



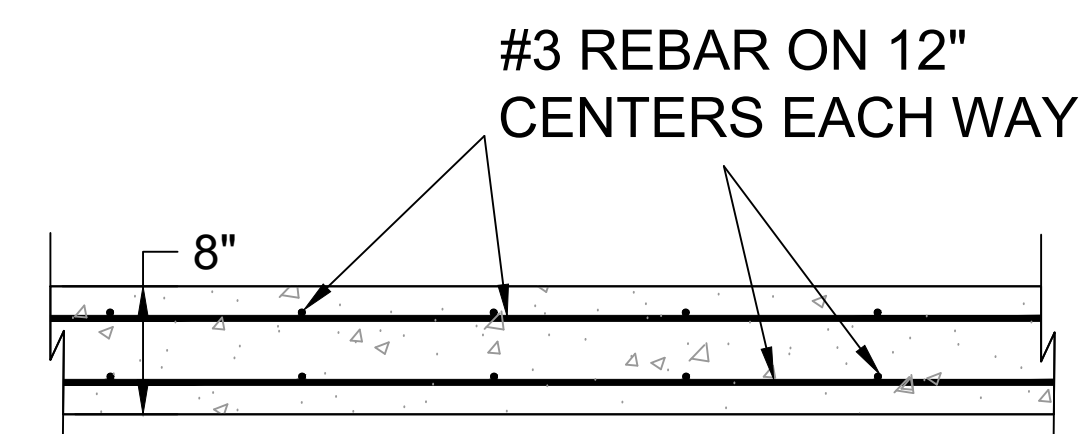
C
SECTION - COARSE MECHANICAL BAR SCREENS
SCALE: 1/2" = 1'



1
DETAIL - GRATING FRAME
N.T.S.

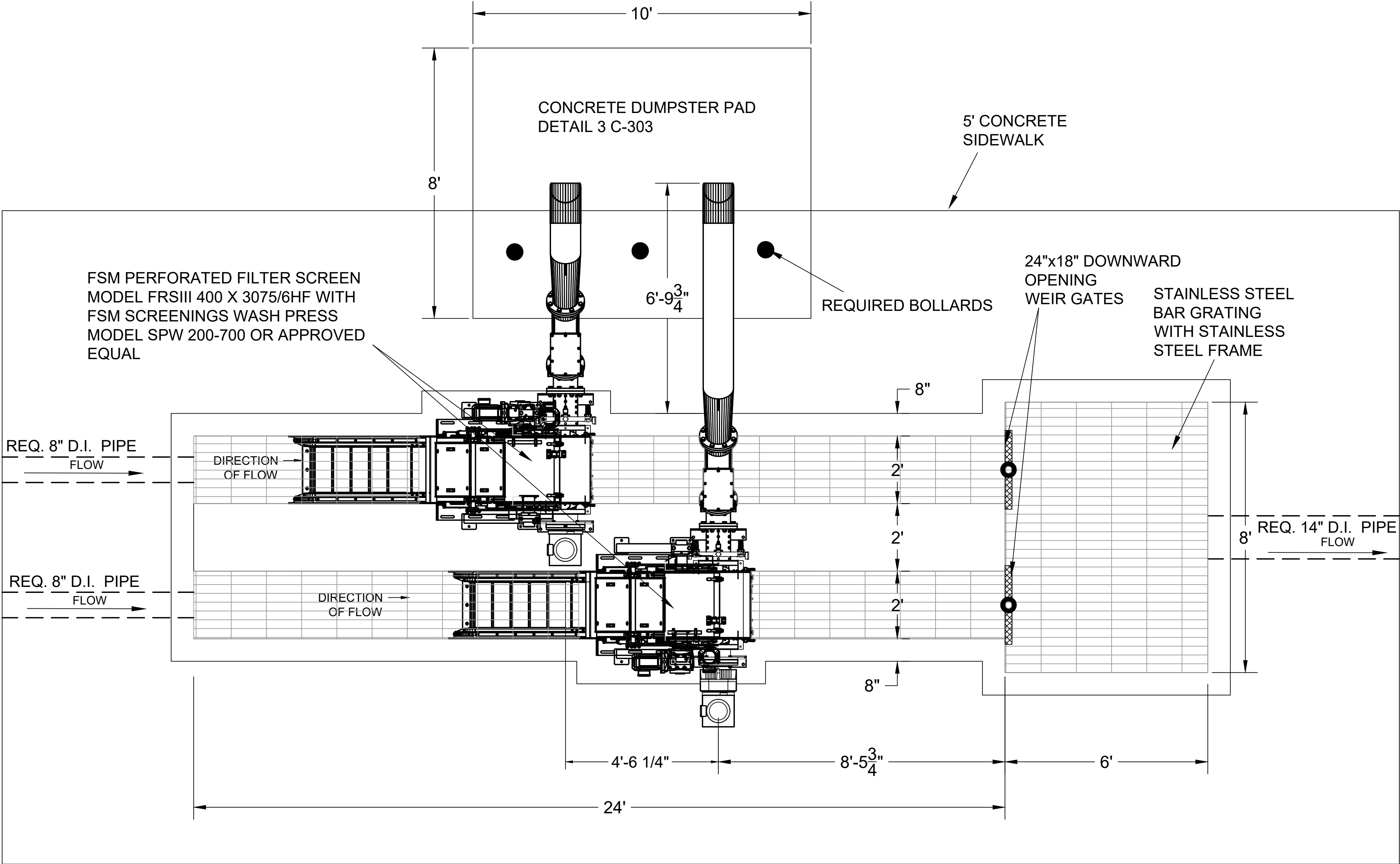


2
DETAIL - WATERSTOP
N.T.S.



3
CONCRETE DUMPSTER PAD DETAIL
N.T.S.

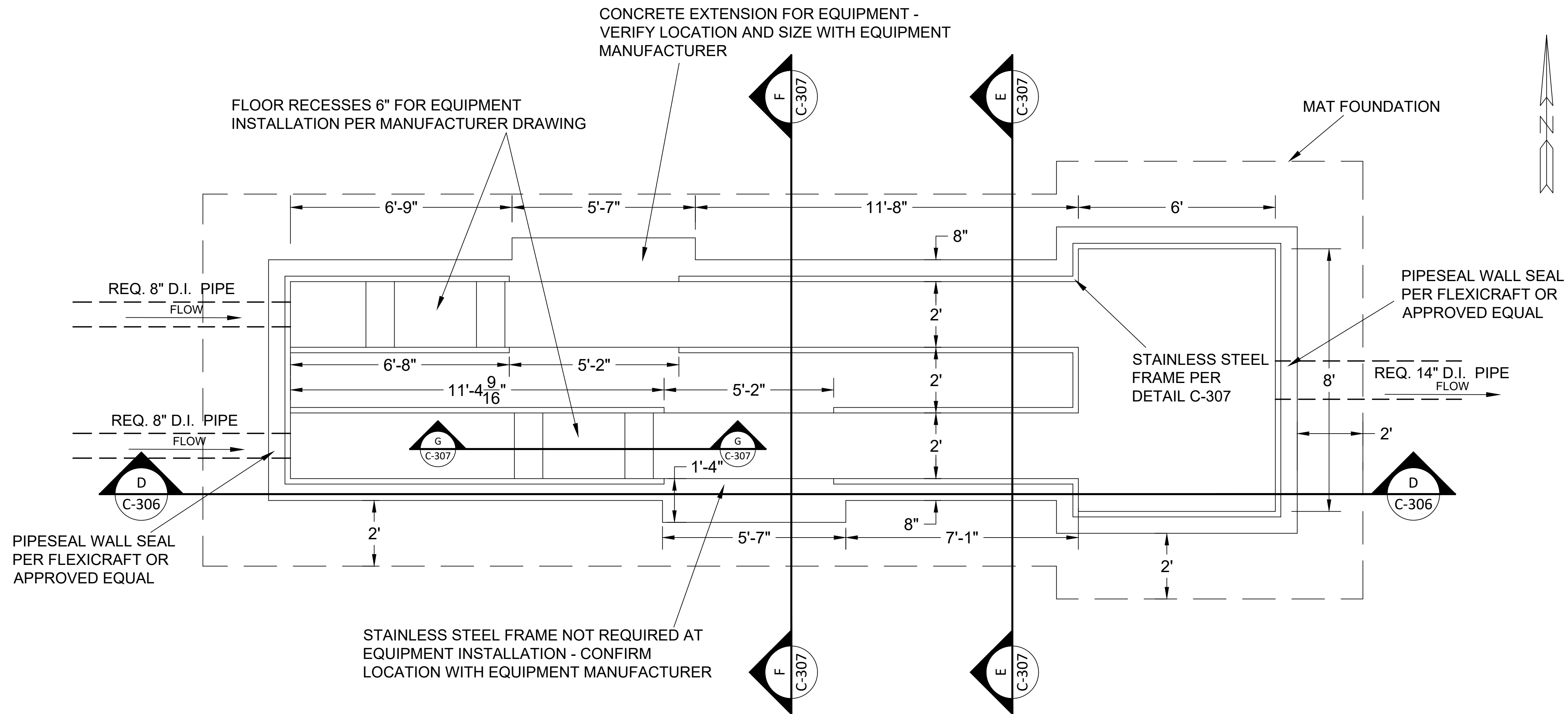




PLAN VIEW - FINE MECHANICAL BAR SCREENS LAYOUT

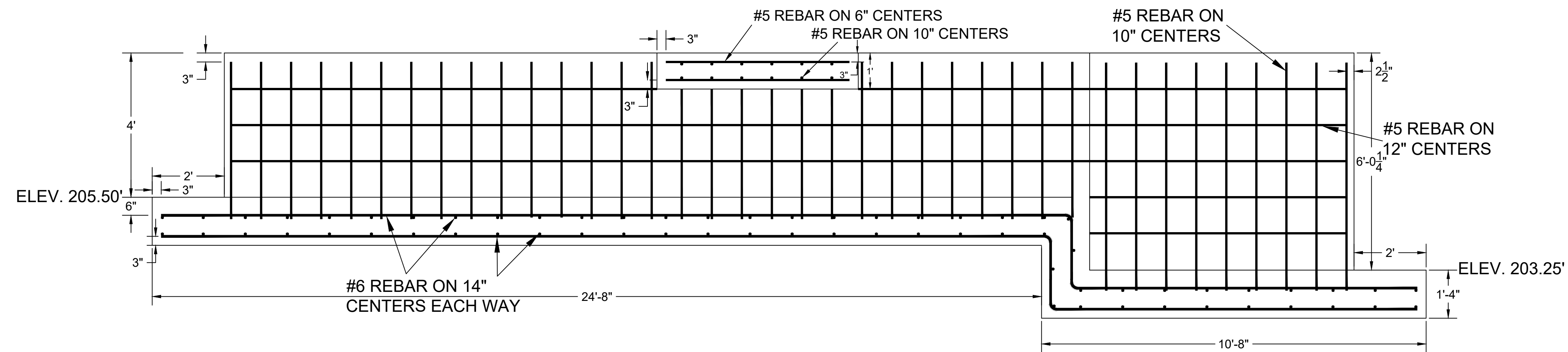
SCALE: 1/2" = 1'

- GENERAL NOTES:
1. ALL REBAR TO BE GRADE 60. MILL CERTIFICATION REQUIRED ON ALL REBAR INSTALLED.
 2. ALL CONCRETE TO ACHIEVE 3500 PSI COMPRESSIVE STRENGTH AFTER 28 DAYS.
 3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT ACCESSORIES AND CHAIRS TO PLACE REINFORCEMENT, AND ALL OTHER APPURTENANCES.
 4. BAR GRATE TO BE 304 STAINLESS STEEL WITH A LOAD CAPACITY OF 200 POUNDS PER SQUARE FOOT AT A SPAN OF 8 FEET WITH A DEFLECTION LESS THAN $\frac{1}{8}$ ".
 5. ALL EXPOSED CONCRETE CORNERS TO HAVE $\frac{3}{4}$ " CHAMFER EDGE.
 6. CONTRACTOR TO PROVIDE ALL CORNER REINFORCEMENT AND LAP ALL CONTINUOUS REINFORCEMENT IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318 BY AMERICAN CONCRETE INSTITUTE (ACI).
 7. CONTRACTOR TO BACKFILL AROUND FINISHED CONCRETE STRUCTURE WITH EXISTING EXCAVATED SOIL. ALL BACKFILL SOIL AND EXISTING FOUNDATION SOILS TO BE COMPACTED TO 95% STANDARD PROCTOR ASTM D698.
 8. CONTRACTOR TO PROVIDE POTABLE WATER SOURCE AND REQUIRED ELECTRICAL POWER AS REQUIRED BY MANUFACTURER EQUIPMENT SPECIFICATIONS.



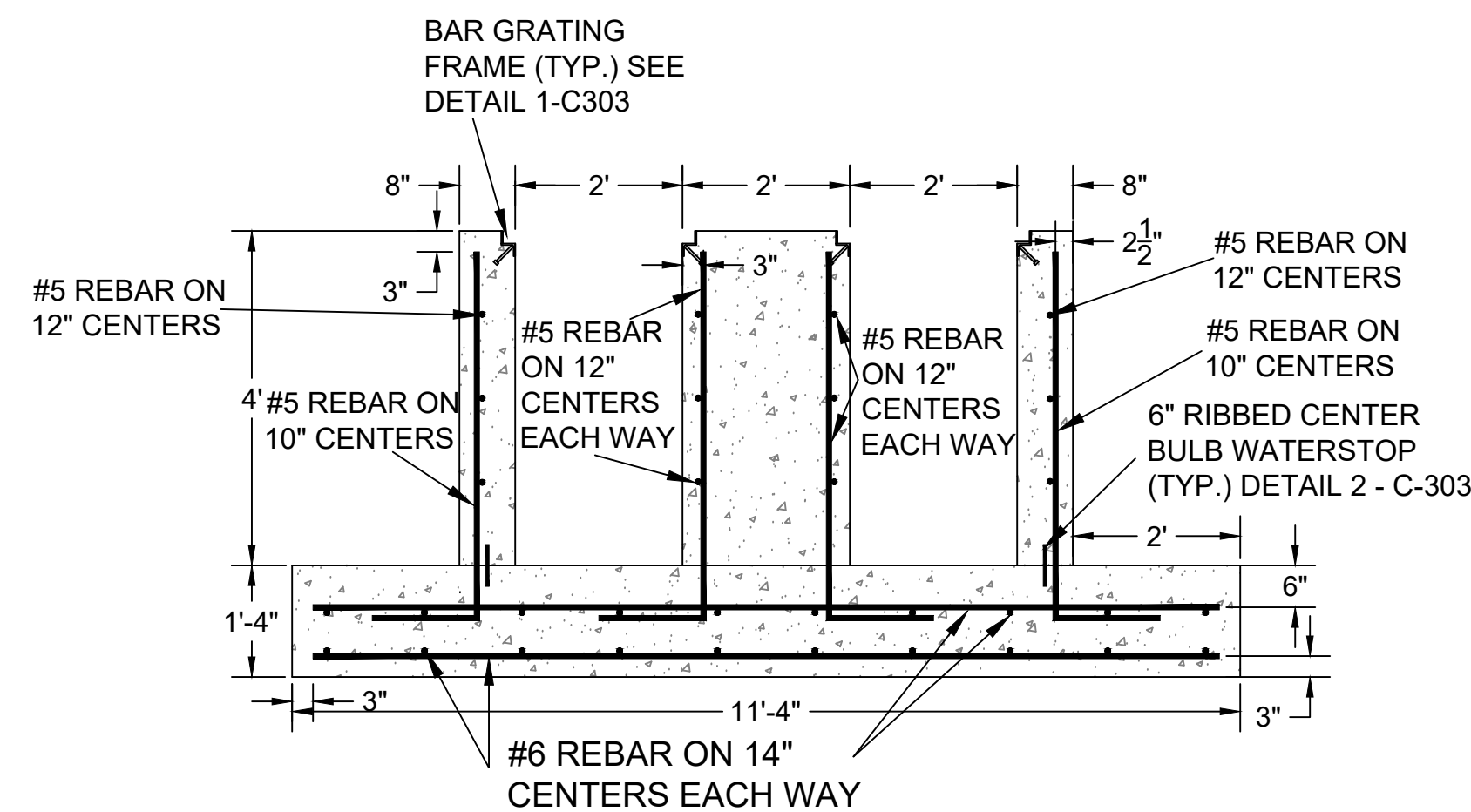
PLAN VIEW - CONCRETE STRUCTURE FOR FINE MECHANICAL BAR SCREENS

SCALE: 1/2" = 1'

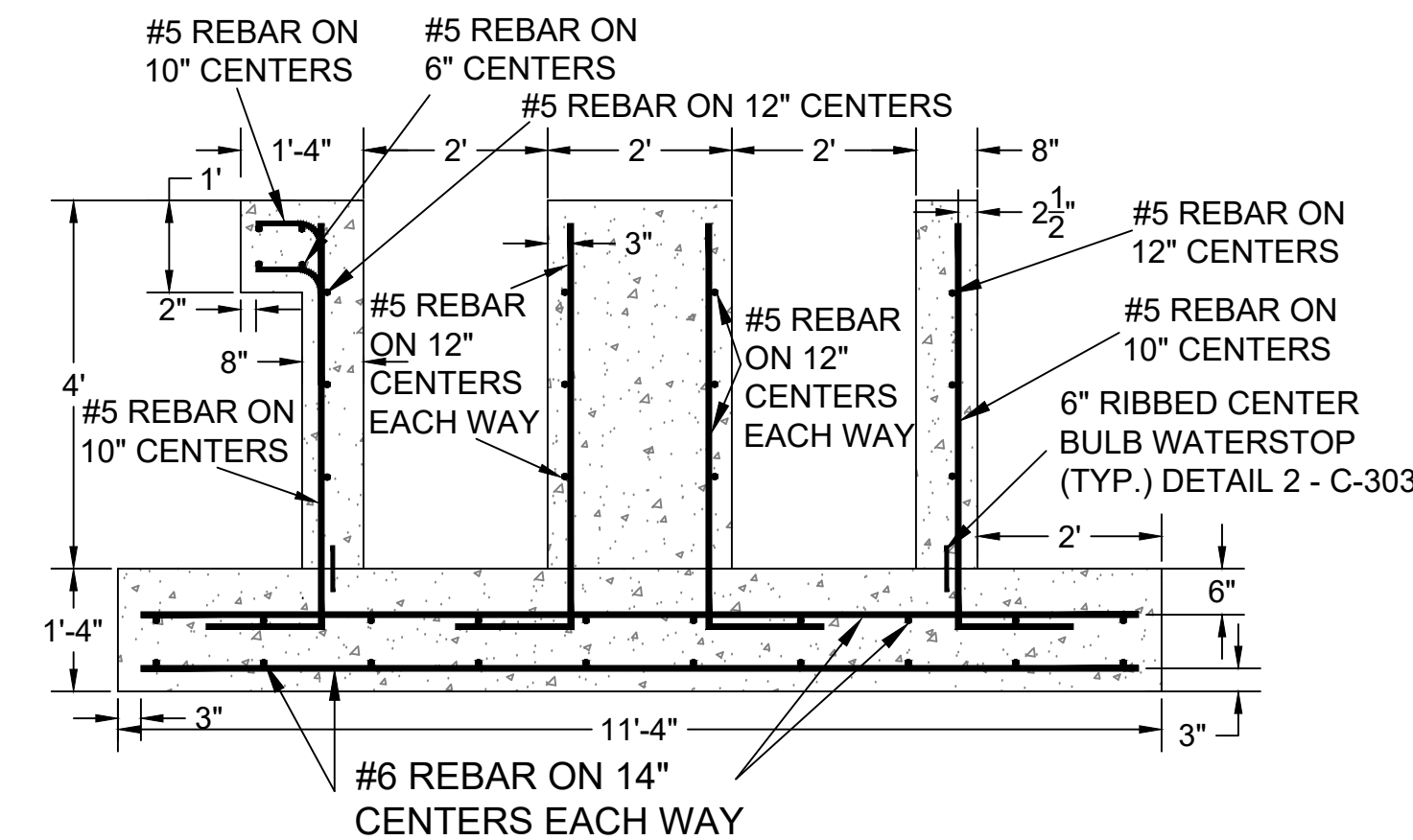


D SECTION - FINE MECHANICAL BAR SCREENS
C-306

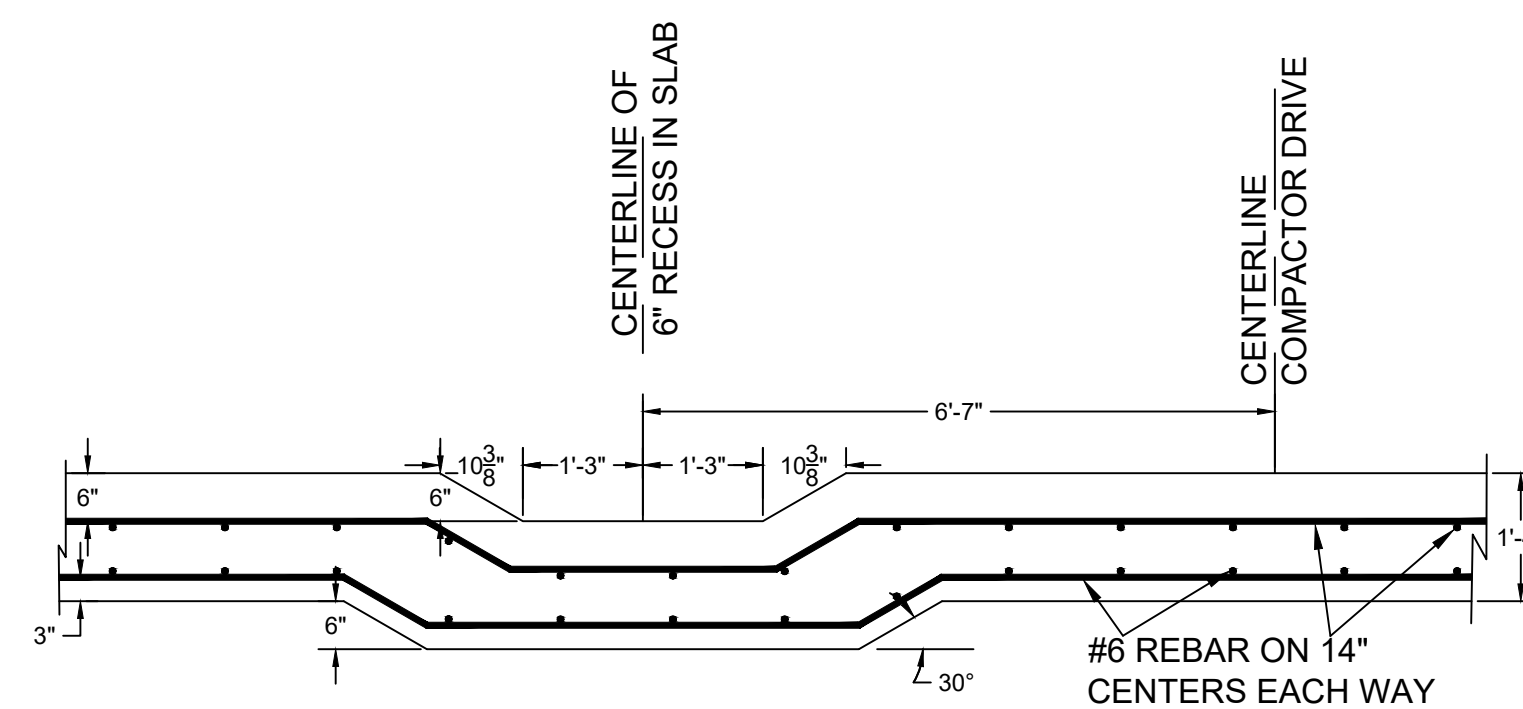
SCALE: 1/2" = 1'



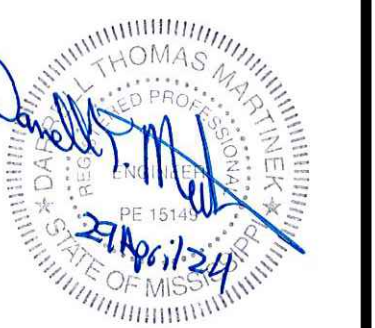
E
C-307 SECTION - FINE MECHANICAL BAR SCREENS
SCALE: 1/2" = 1'



F
C-307 SECTION - FINE MECHANICAL BAR SCREENS
SCALE: 1/2" = 1'



G
C-307 SECTION - FINE MECHANICAL BAR SCREENS
SCALE: 1/2" = 1'



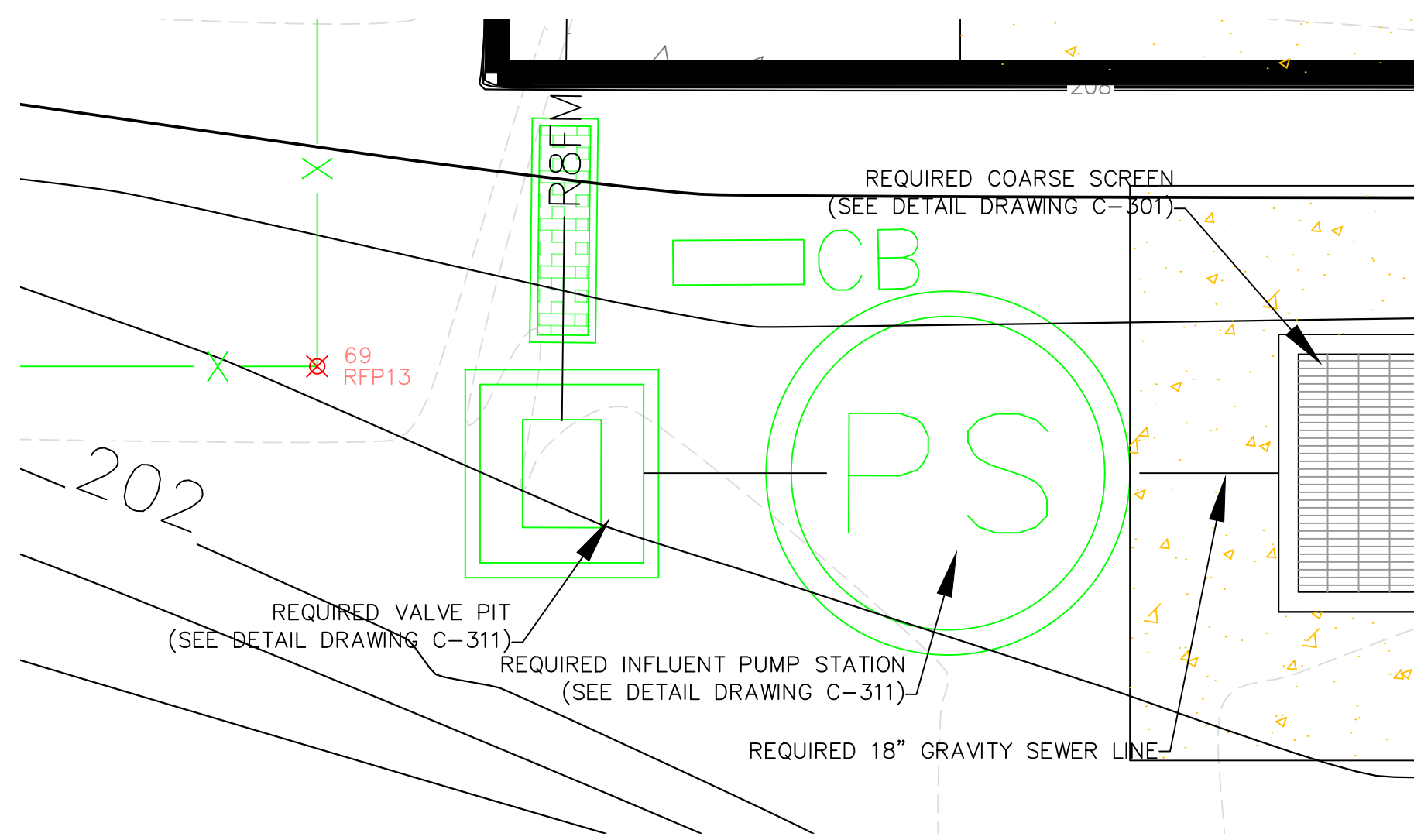
GS#323-024 ARPA INFR. - WASTE
CENT. TREATMENT
SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION
LEAKESVILLE, MISSISSIPPI

Burle Proj. No.:	08194-1-0122
File Name:	HEADWORKS COARSE-FINE SCREEN.DWG
Date:	04/29/2024
Scale:	AS SHOWN
Drawn by:	MJC
Checked:	DTM
Revisions:	

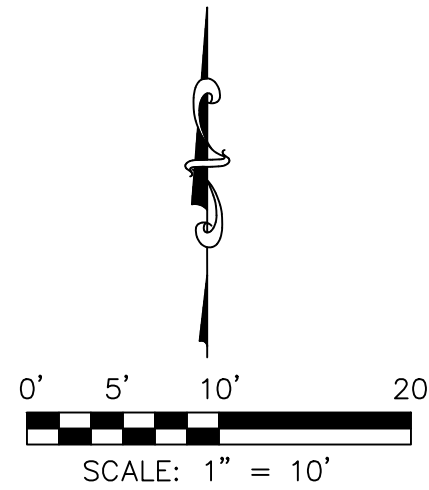
Revisions:	
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Revisions:	
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FINE SCREEN SECTIONS &
DETAILS



PLAN VIEW - INFLUENT PUMP STATION
SCALE: 1" = 30'



- LEGEND:
- 200 --- EXISTING MAJOR CONTOURS (FEET)
 - 201 --- EXISTING MINOR CONTOURS (FEET)
 - 200 — REQUIRED MAJOR CONTOURS (FEET)
 - 201 — REQUIRED MINOR CONTOURS (FEET)
 - REQUIRED CONCRETE (SEE DETAIL DRAWING C-904)
 - REQUIRED INFLUENT PUMP STATION (SEE DRAWING C-311)
 - REQUIRED IN-LINE FLOWMETER (SEE DRAWING C-901)
 - R8FM — R8FM — REQUIRED 8" FORCE MAIN
 - REQUIRED CONTROL BOX (SEE DETAIL DRAWING E-310)



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TREATMENT
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LEAKESVILLE, MS.

Burle Proj. No.:
08194-1-0122

File Name:
C-310 PLAN VIEW - INFLUENT PUMP
STATION.DWG

Date: 04/29/2024

Scale: SHOWN

Drawn by: JRG

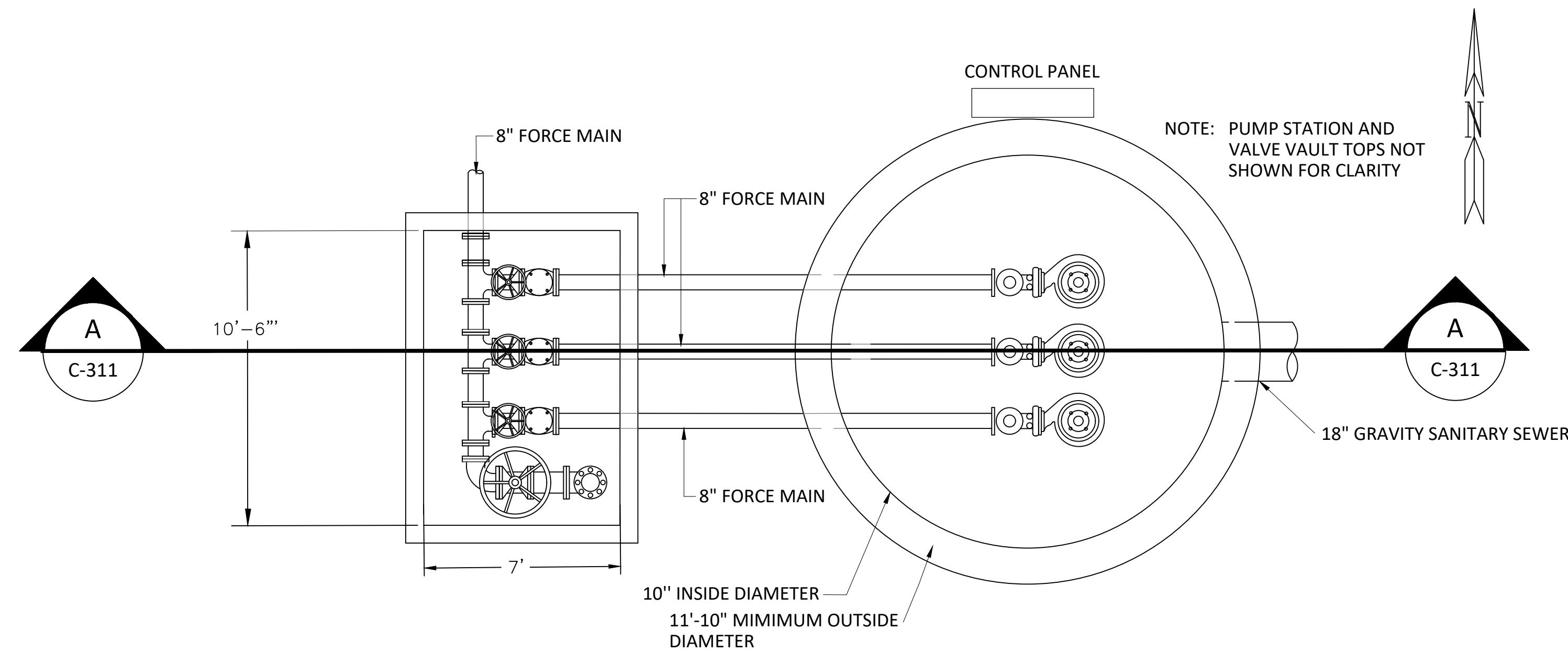
Checked: DTM

Revisions:

Revisions:

Revisions:

PLAN VIEW -
INFLUENT PUMP STATION

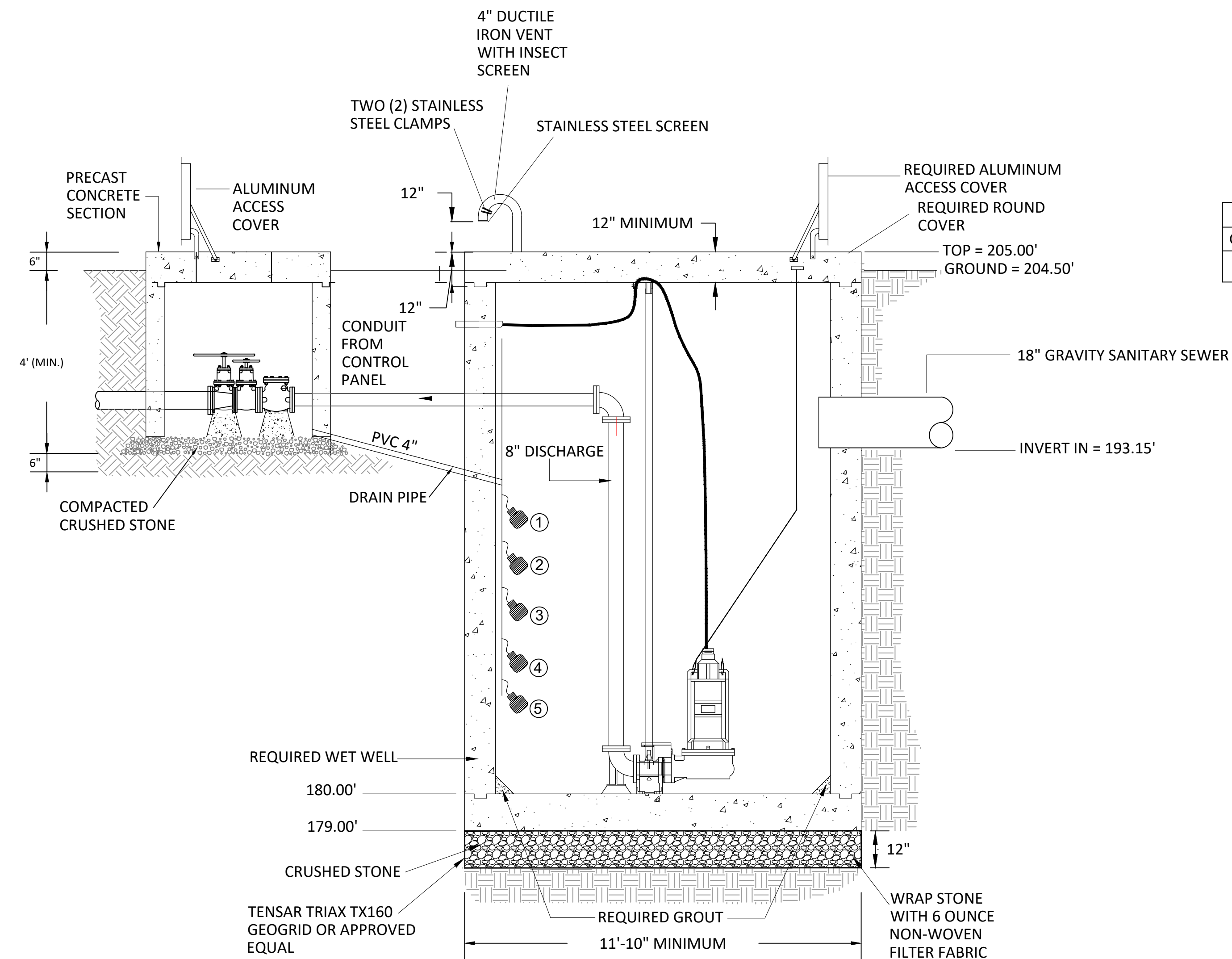


DETAIL - REQUIRED INFLUENT PUMP STATION

NOT TO SCALE

NOTES:

1. STANDARD PRECAST CONCRETE SECTIONS SHALL COMPLY WITH ASTM C478.
2. ALL PRECAST CONCRETE SECTIONS SHALL BE COATED WITH A MINIMUM OF 20 MIL THICKNESS COAL TAR EPOXY INSIDE AND OUTSIDE.
3. ALL JOINTS SHALL BE COATED INSIDE AND OUTSIDE. JOINT MATERIAL SHALL BE PREFORMED FLEXIBLE MASTIC AND SHALL COMPLY WITH ASTM C990.
4. ALL PIPE ENTERING WETWELLS SHALL BE FITTED WITH WATERSTOP, SEE DETAIL DRAWING C-901.

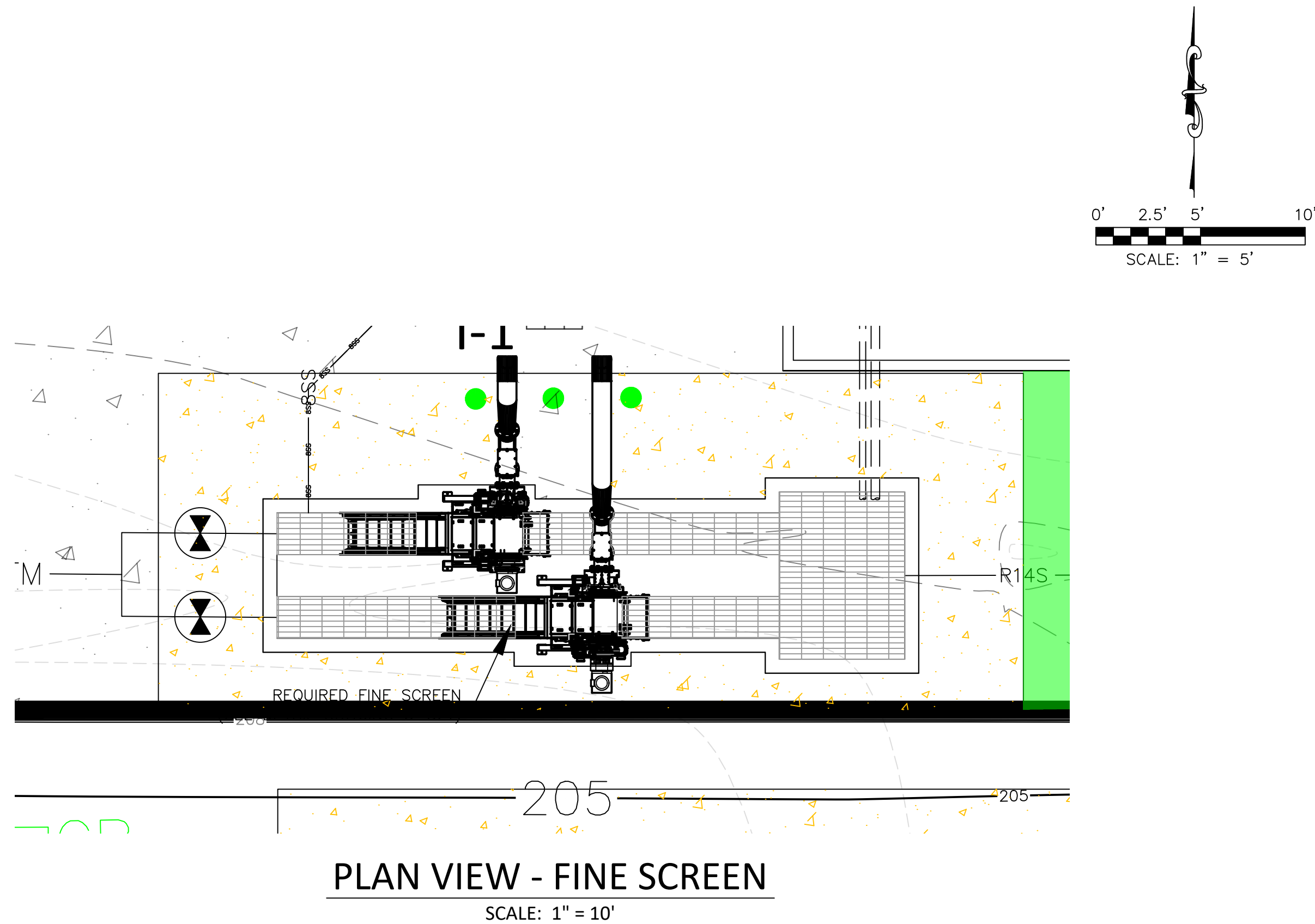


SECTION- REQUIRED INFLUENT PUMP STATION

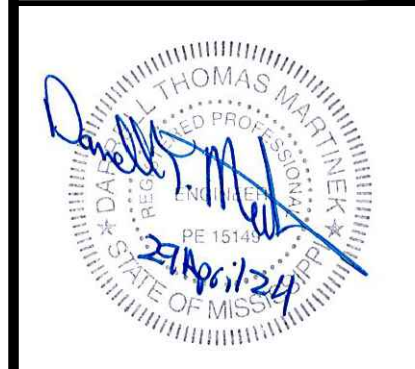
NOT TO SCALE

PUMP STATION CONDITIONS				
QUANTITY	H.P.	G.P.M.	T.D.H.	VOLTAGE
3	15	1,100	23	460(3 PH.)

FLOAT SETTING TABLE	
ALARM NAME	ELEVATION
① HIGH LEVEL ALARM	189.01
② LAG PUMP 2 ON	188.51
③ LAG PUMP 1 ON	188.01
④ LEAD PUMP ON	187.51
⑤ PUMPS OFF	183.76

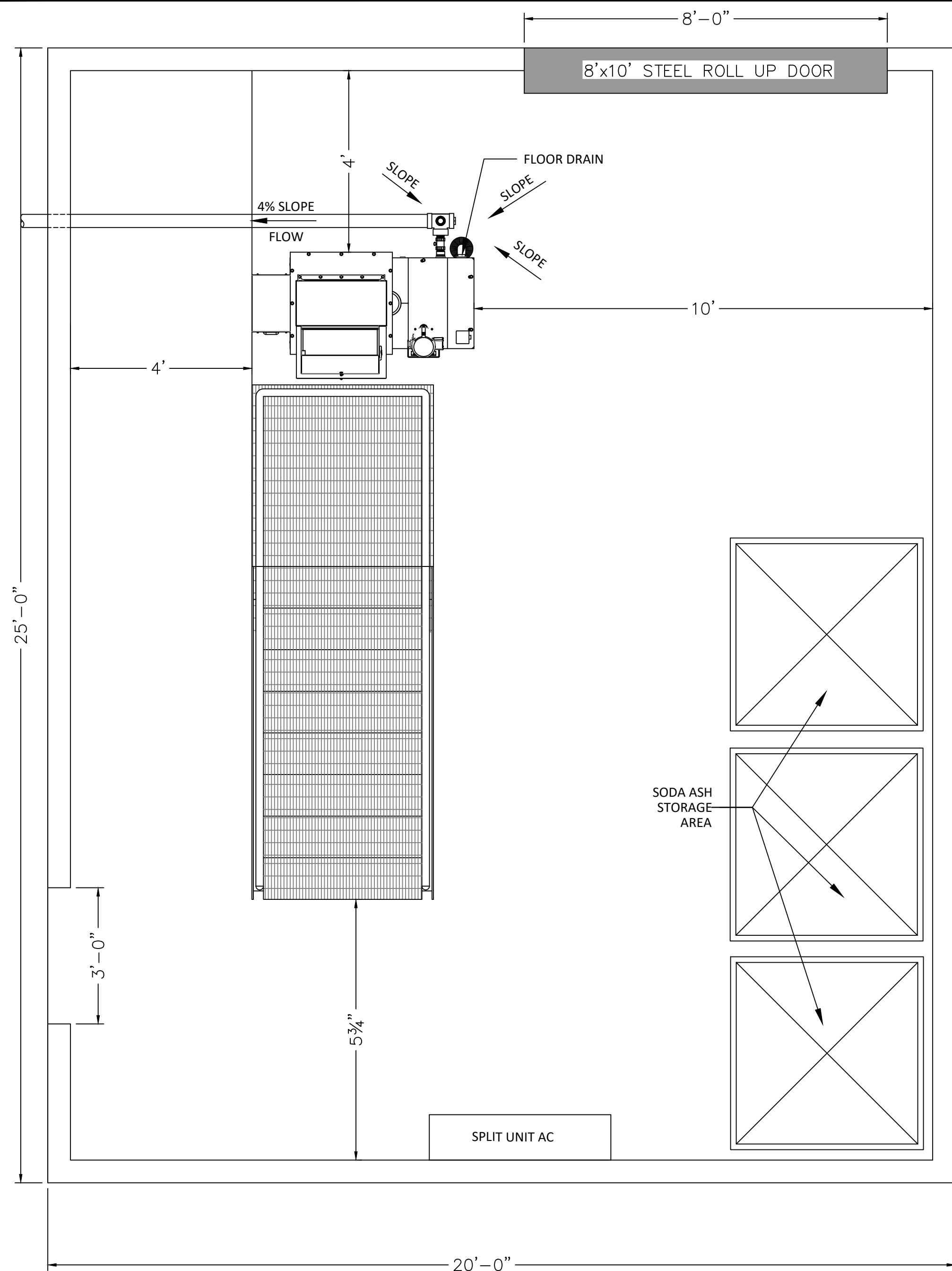


- LEGEND:
- 200 --- EXISTING MAJOR CONTOURS (FEET)
 - 201 --- EXISTING MINOR CONTOURS (FEET)
 - 200 — REQUIRED MAJOR CONTOURS (FEET)
 - 201 — REQUIRED MINOR CONTOURS (FEET)
 - R8FM — R8FM — REQUIRED 8" FORCE MAIN
 - R14S — REQUIRED 14" GRAVITY SEWER LINE
 - [Concrete symbol] REQUIRED CONCRETE (SEE DETAIL DRAWING C-904)
 - [Flowmeter symbol] REQUIRED IN-LINE FLOWMETER (SEE DRAWING C-901)
 - R8FM — R8FM — REQUIRED 8" FORCE MAIN
 - R14S — REQUIRED 14" GRAVITY SEWER LINE
 - [Pinch valve symbol] REQUIRED PINCH VALVE (SEE DETAIL DRAWING C-901)
 - [Bollard symbol] REQUIRED BOLLARD (SEE DRAWING C-904)

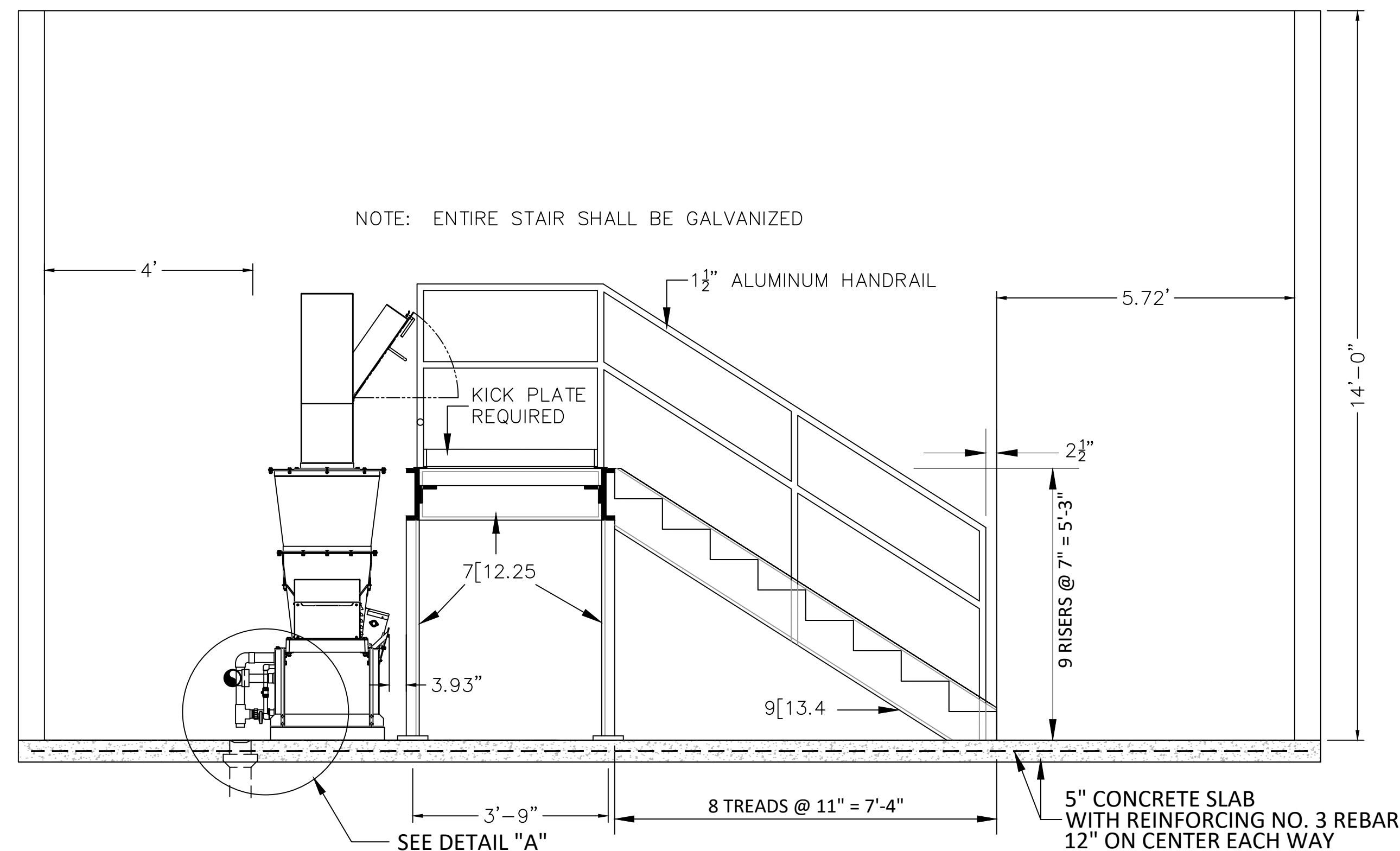


GSH323-024 APPA INFR. - WASTE CENT.
TREATMENT
SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION
LEAKESVILLE, MS.

Burle Proj. No.: 08194-1-0122
File Name: C-310 PLAN VIEW - FINE SCREEN.DWG
Date: 04/29/2024
Scale: SHOWN
Drawn by: JRG
Checked: DTM
Revisions:
Revisions:
Revisions:
Revisions:



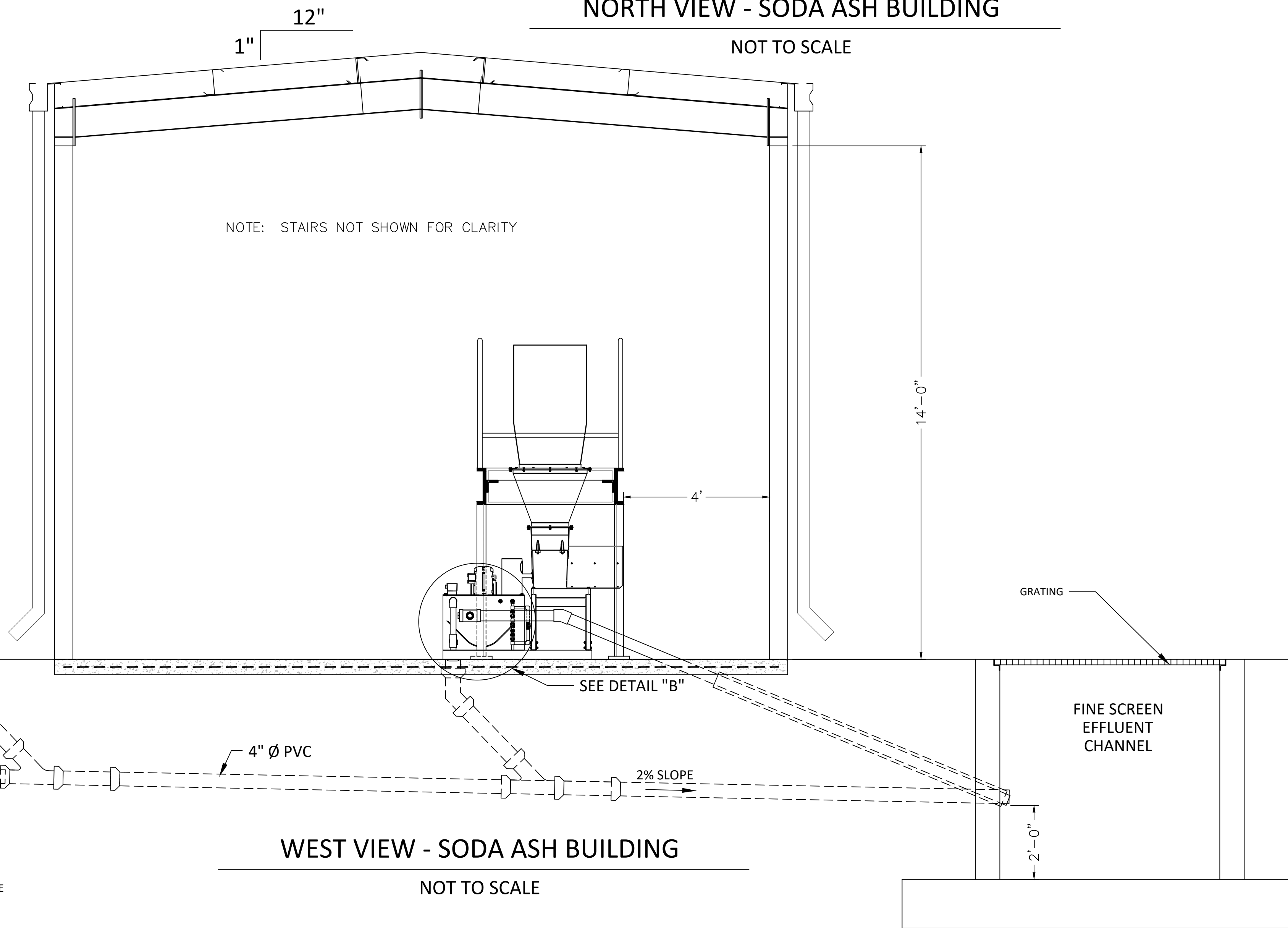
- NOTES:
1. ENCLOSED METAL BUILDING SHALL BE PRE-ENGINEERED, METAL FRAMED STRUCTURE. PLANS AND SPECIFICATIONS BEARING PROFESSIONAL ENGINEER'S SEAL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. COLOR OF METAL BUILDING EXTERIOR SHEETS SHALL BE SELECTED BY THE OWNER.
 2. BRIDGE CRANE SHALL HAVE A $\frac{1}{2}$ TON CAPACITY AND BE ELECTRICALLY OPERATED IN LIFTING DIRECTION WITH A LIFT SPEED OF 15 FEET PER MINUTE. THE AVAILABLE LIFT SHALL BE 20 FEET AND FEATURE AN UPPER LIMIT SWITCH. THE TROLLEY TYPE SHALL BE PUSH/PULL WITH RUBBER BUMPERS AND SAFETY LUGS. CRANE POWER SUPPLY SHALL BE 120 VOLT, SINGLE PHASE, 60 HERTZ. CROSS CONDUCTORS SHALL BE ROUND FESTOONED CABLE. BRIDGE CRANE AND SUPPORT SYSTEM SHALL BE CONNECTED TO METAL BUILDING STRUCTURAL MEMBERS. DESIGN OF BRIDGE CRANE AND SUPPORT SYSTEM BEARING PROFESSIONAL ENGINEER'S SEAL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
 3. FOOTINGS AND REINFORCEMENT SHOWN FOR INFORMATION ONLY, PLANS AND SPECIFICATIONS BEARING PROFESSIONAL ENGINEER'S STAMP TO BE SUBMITTED TO ENGINEER FOR APPROVAL BASED UPON AN ALLOWABLE SOIL BEARING PRESSURE OF 1,000 POUNDS PER SQUARE FEET.
 4. SPLIT AIR CONDITIONING UNITS SHALL BE THREE (3) TON UNIT AS MANUFACTURED BY MITSUBISHI OR APPROVED EQUAL.



NOTE: ENTIRE STAIR SHALL BE GALVANIZED

NORTH VIEW - SODA ASH BUILDING

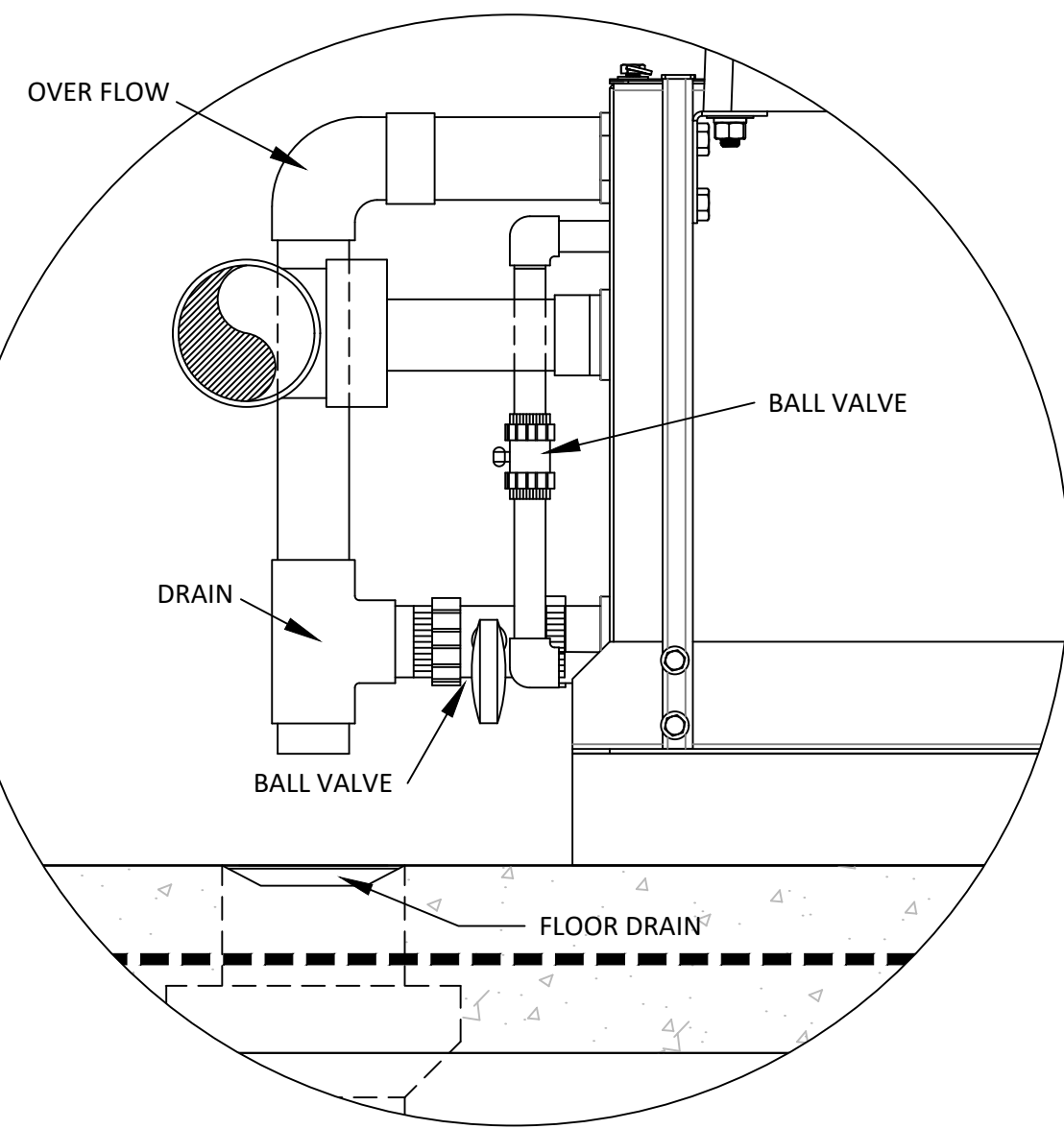
NOT TO SCALE



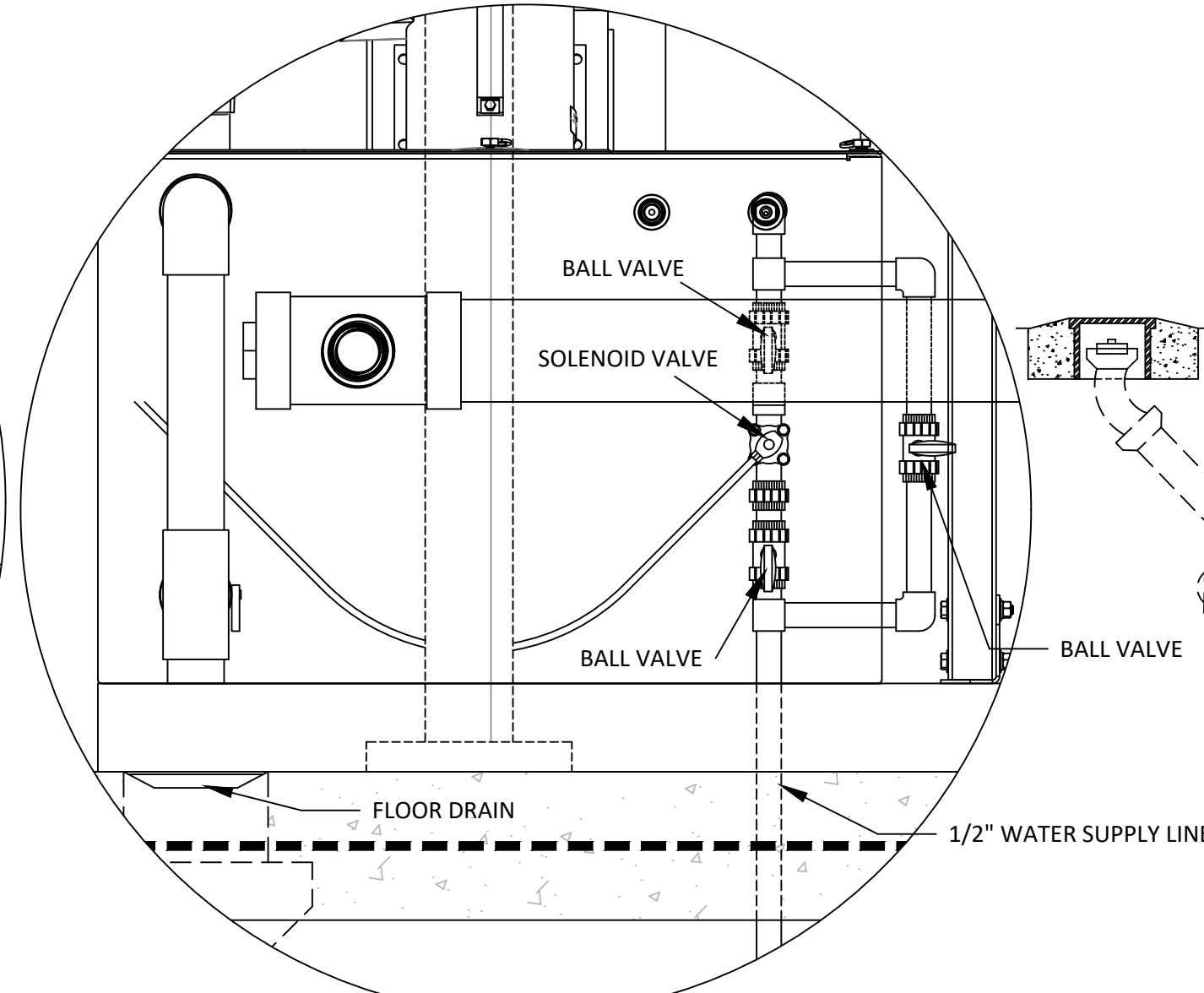
NOTE: STAIRS NOT SHOWN FOR CLARITY

WEST VIEW - SODA ASH BUILDING

NOT TO SCALE



DETAIL "A"
NOT TO SCALE



DETAIL "B"
NOT TO SCALE



GS#323-024 APPA INFER - WASTE CENT.
TREATMENT
SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION
LEAKESVILLE, MS.

Burle Proj. No.:
08194-1-0122

File Name:
C-310 PLAN VIEW - PH
ADJUSTMENT GRADING.DWG

Date: 04/29/2024

Scale: SHOWN

Drawn by: JRG

Checked: DTM

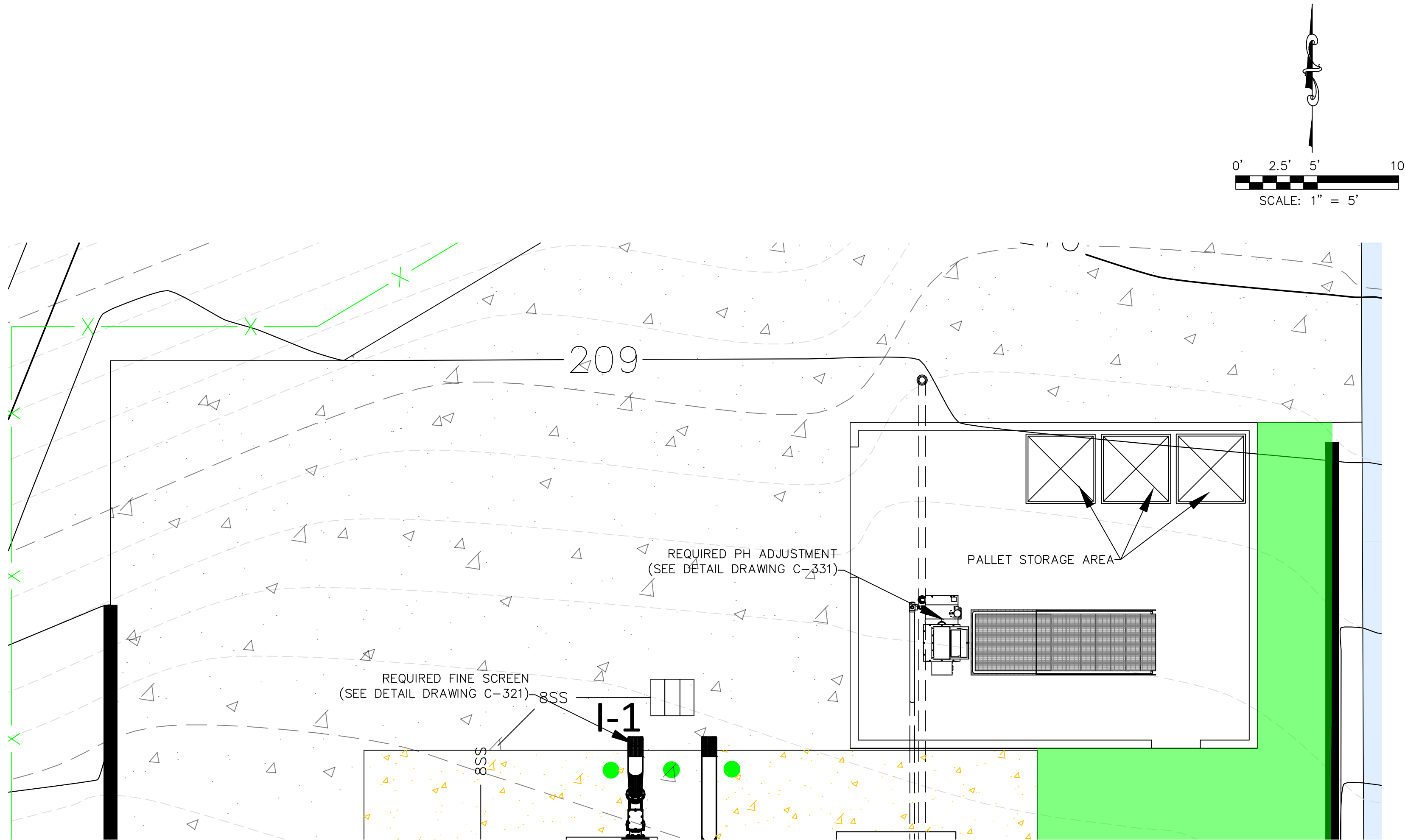
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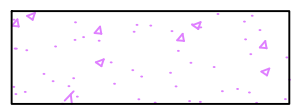
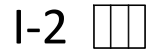
Revisions:

Revisions:

PLAN VIEW -
PH ADJUSTMENT
GRADING

C-331
Drawing Number



- LEGEND:
- 200 --- EXISTING MAJOR CONTOURS (FEET)
 - 201 --- EXISTING MINOR CONTOURS (FEET)
 - 200 — REQUIRED MAJOR CONTOURS (FEET)
 - 201 — REQUIRED MINOR CONTOURS (FEET)
 - 8SS — 8SS — REQUIRED 8" STORM SEWER LINE (SEE DETAIL DRAWING C-907)
 -  REQUIRED 4" CONCRETE (SEE DETAIL DRAWING C-904)
 -  REQUIRED 8" CONCRETE (SEE DETAIL DRAWING C-904)
 -  REQUIRED BOLLARD (SEE DRAWING C-904)
 -  I-2 REQUIRED SURFACE INLET (SEE DETAIL DRAWING C-907)



GSH323-024 APPA INF. - WASTE CENT.
TREATMENT
SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION
LEAKESVILLE, MS.

Burle Proj. No.:
08194-1-0122

File Name:
C-310 PLAN VIEW - PH
ADJUSTMENT PIPING.DWG

Date: 04/29/2024

Scale: SHOWN

Drawn by: JRG

Checked: DTM

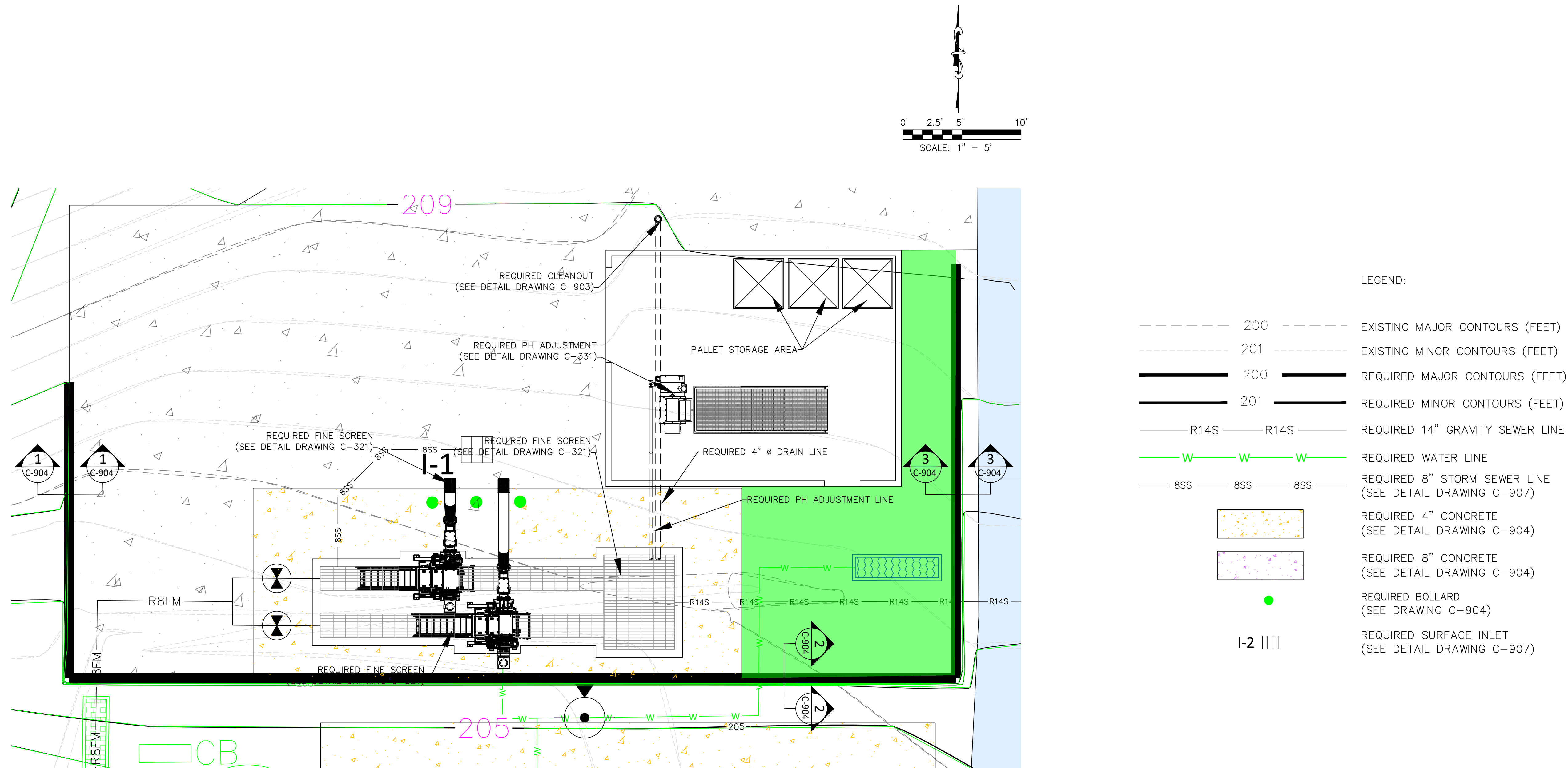
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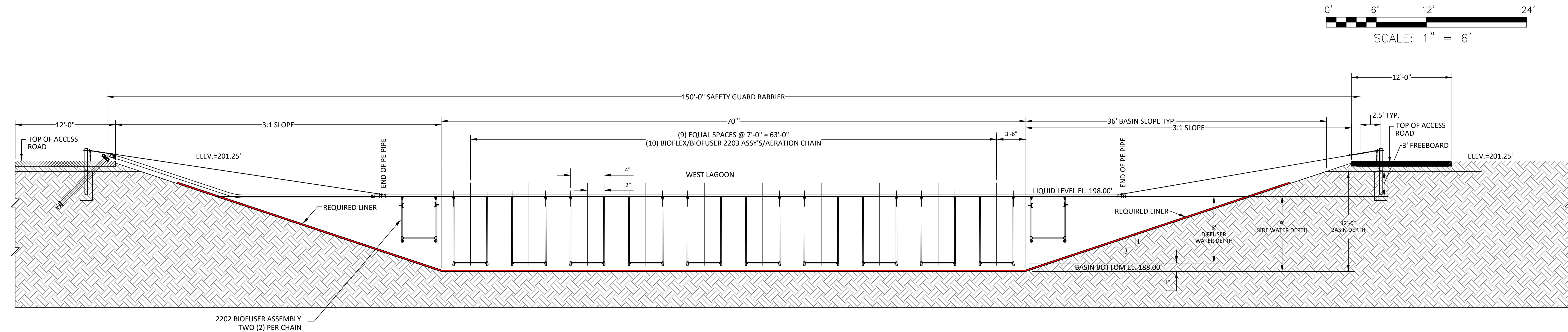
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Revisions:

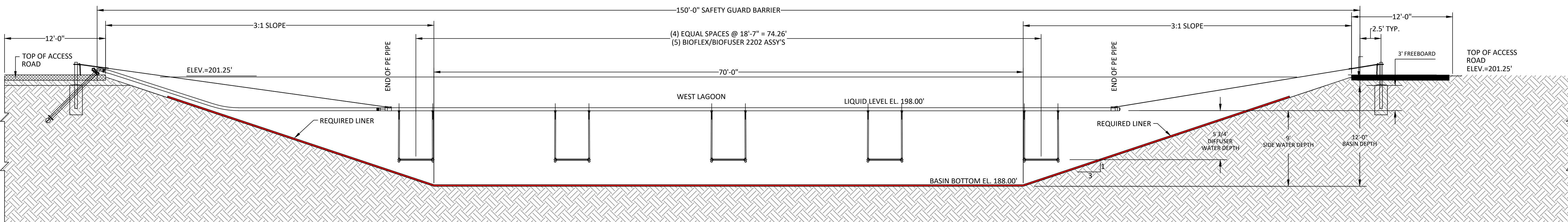
PLAN VIEW -
PH ADJUSTMENT PIPING

C-332
Drawing Number

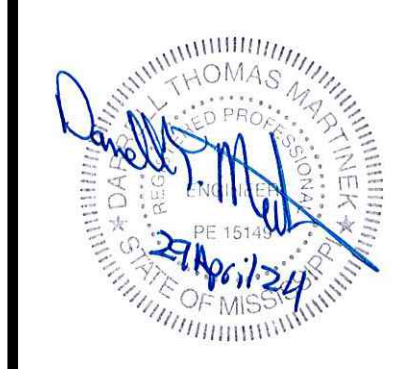
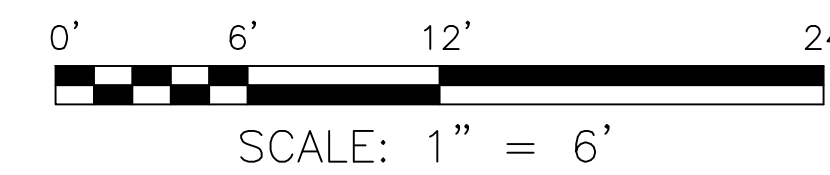




A SECTION - REQUIRED WORK EAST LAGOON
C-403 SCALE: 1"=10'-0"

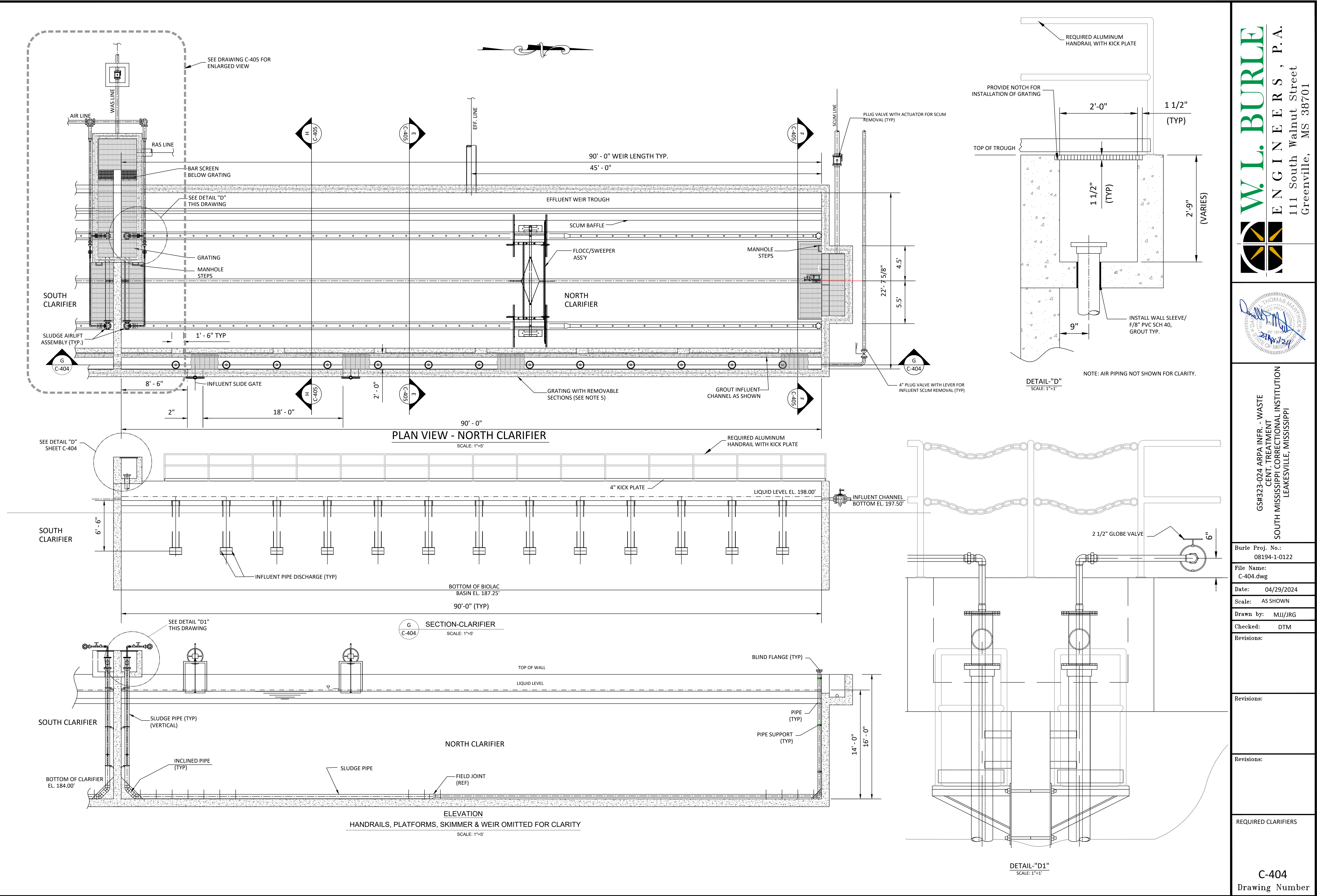


B SECTION - REQUIRED WORK EAST LAGOON
C-403 SCALE: 1"=10'-0"

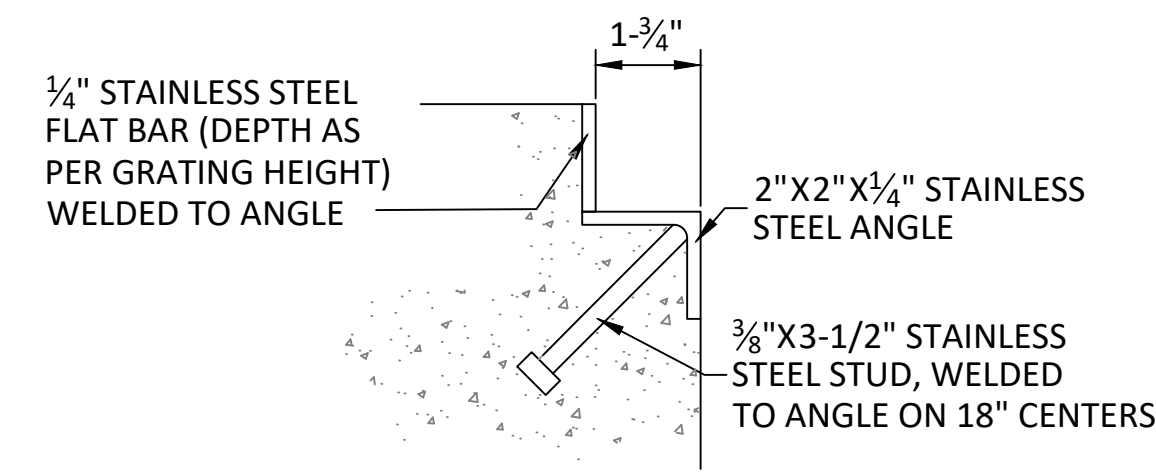


GS#323-024 ARPA INFR. - WASTE
CENT. TREATMENT
SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION
LEAKESVILLE, MISSISSIPPI

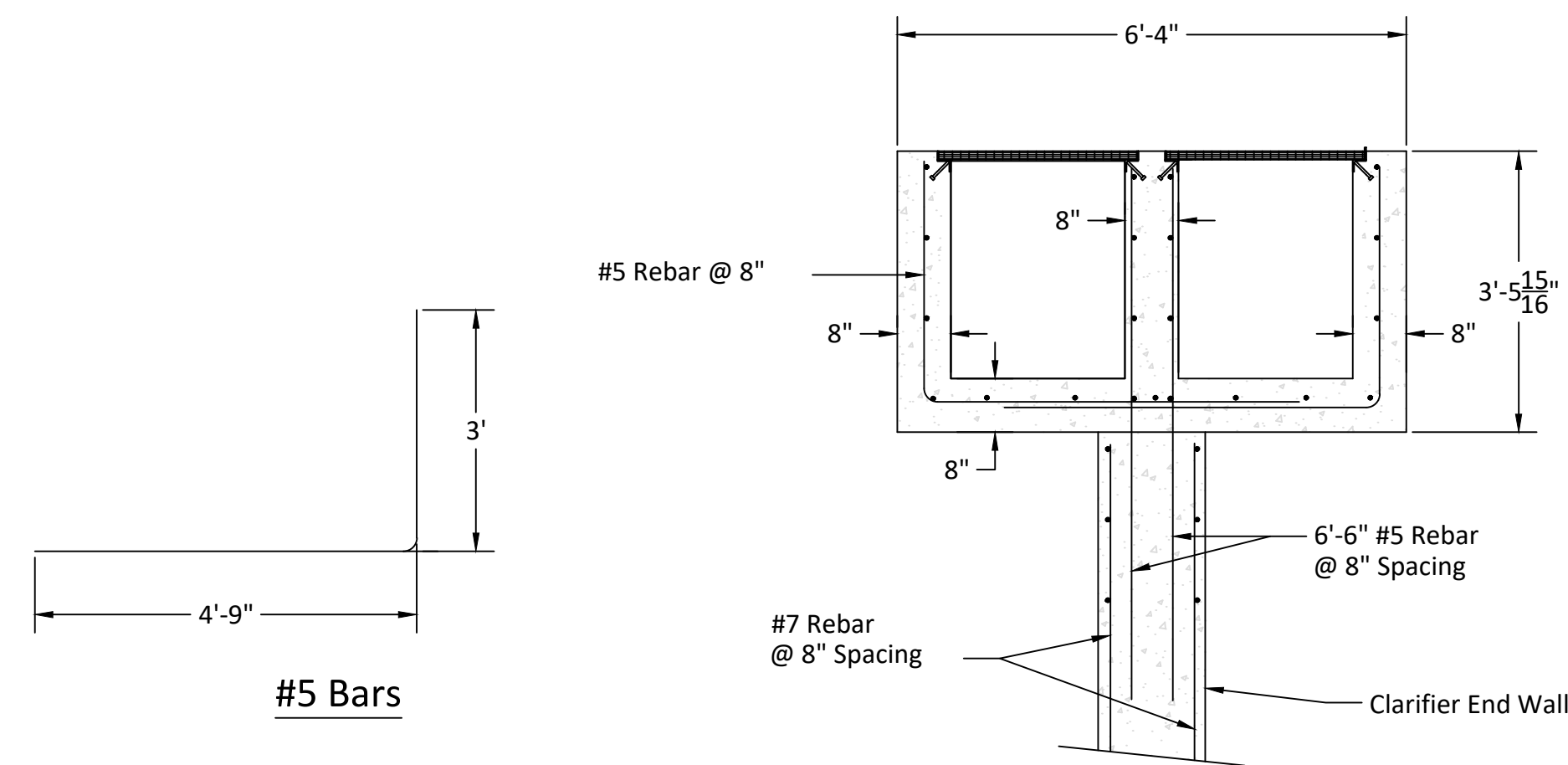
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Date:	04/29/2024
Scale:	1"=6'
Drawn by:	MJJ/JRG
Checked:	DTM
Revisions:	
Revisions:	
Revisions:	
SECTIONS- REQUIRED WORK EAST LAGOON	



Burle Proj. No.:	08194-1-0122
File Name:	C-404.dwg
Date:	04/29/2024
Scale:	AS SHOWN
Drawn by:	MJJ/JRG
Checked:	DTM
Revisions:	
Revisions:	
Revisions:	
Revisions:	

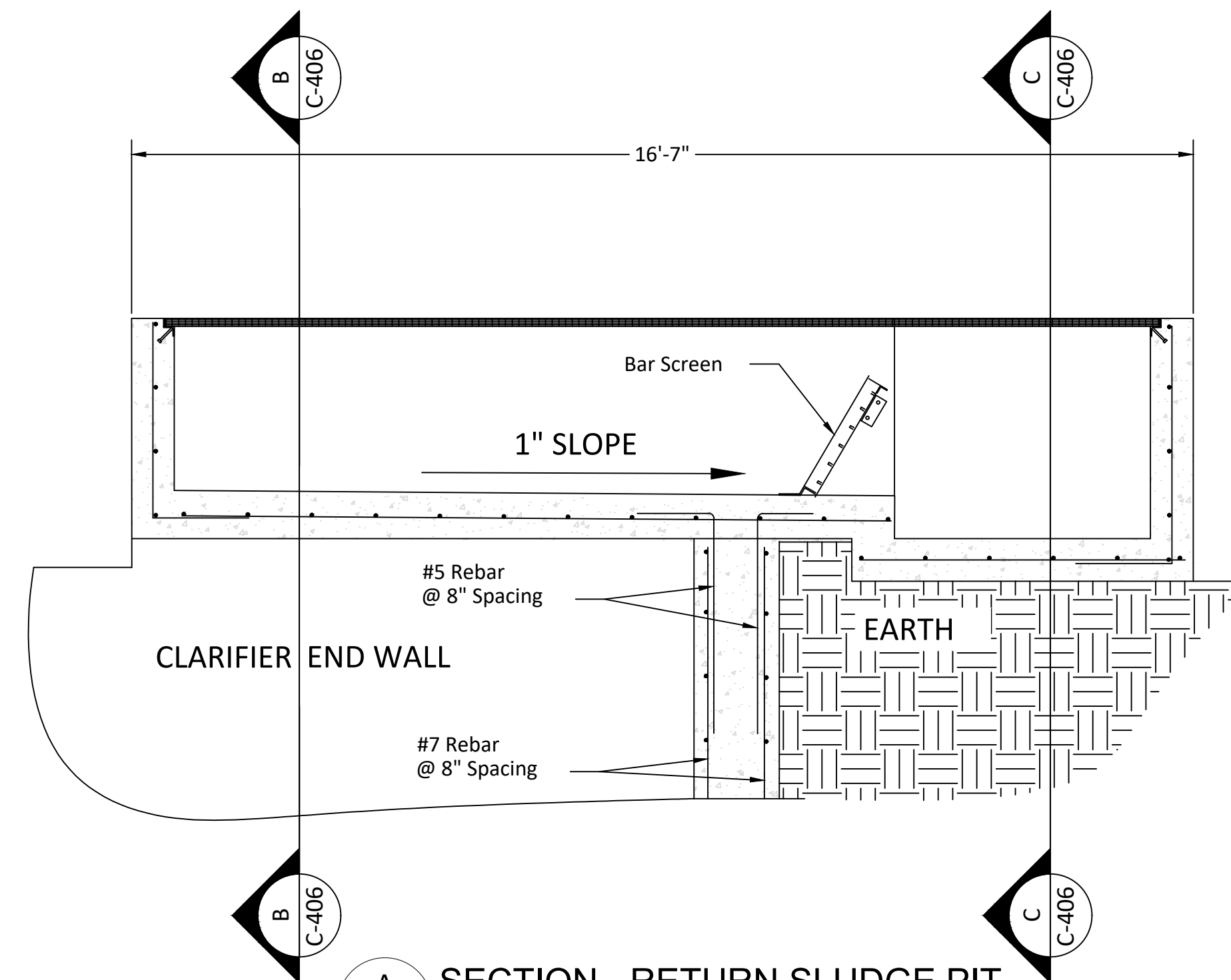


1 GRATING FRAME DETAIL
C-406 N.T.S.

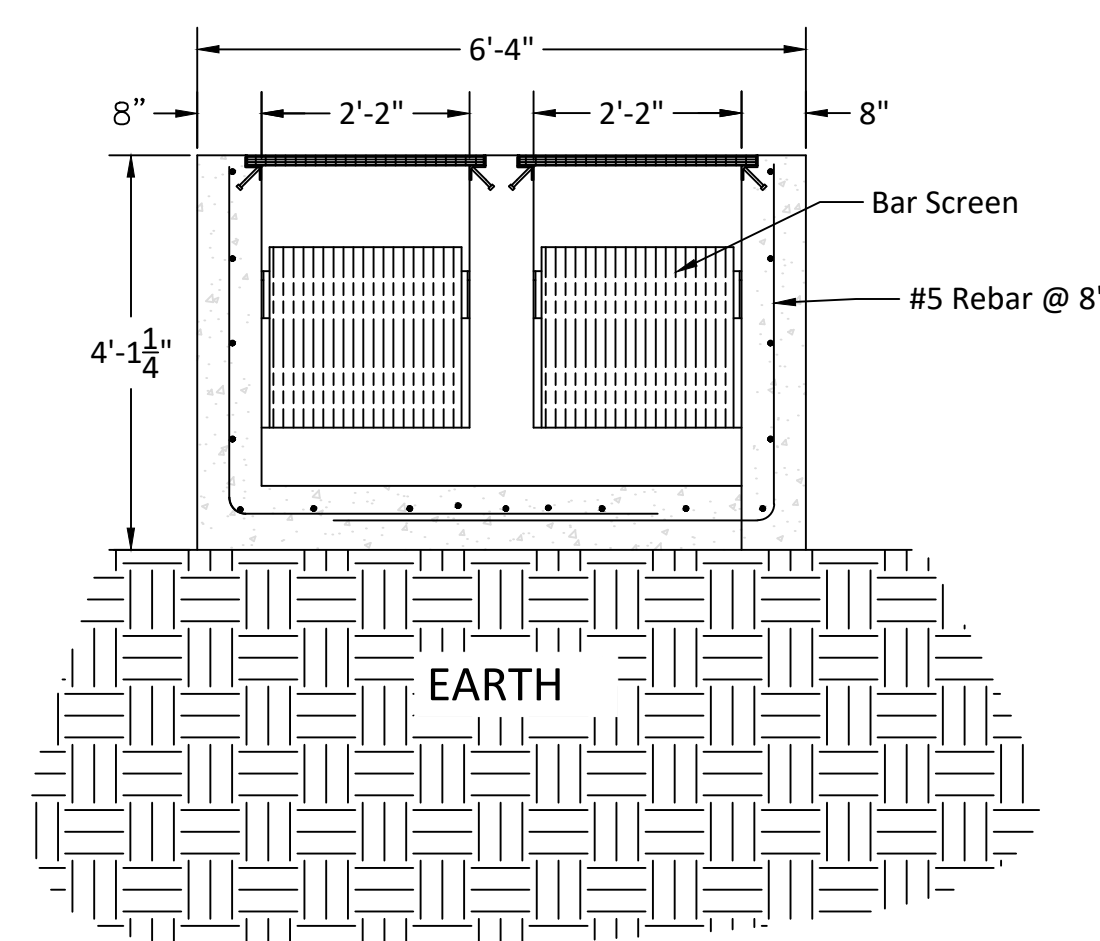


B SECTION - RETURN SLUDGE PIT
C-406 N.T.S.

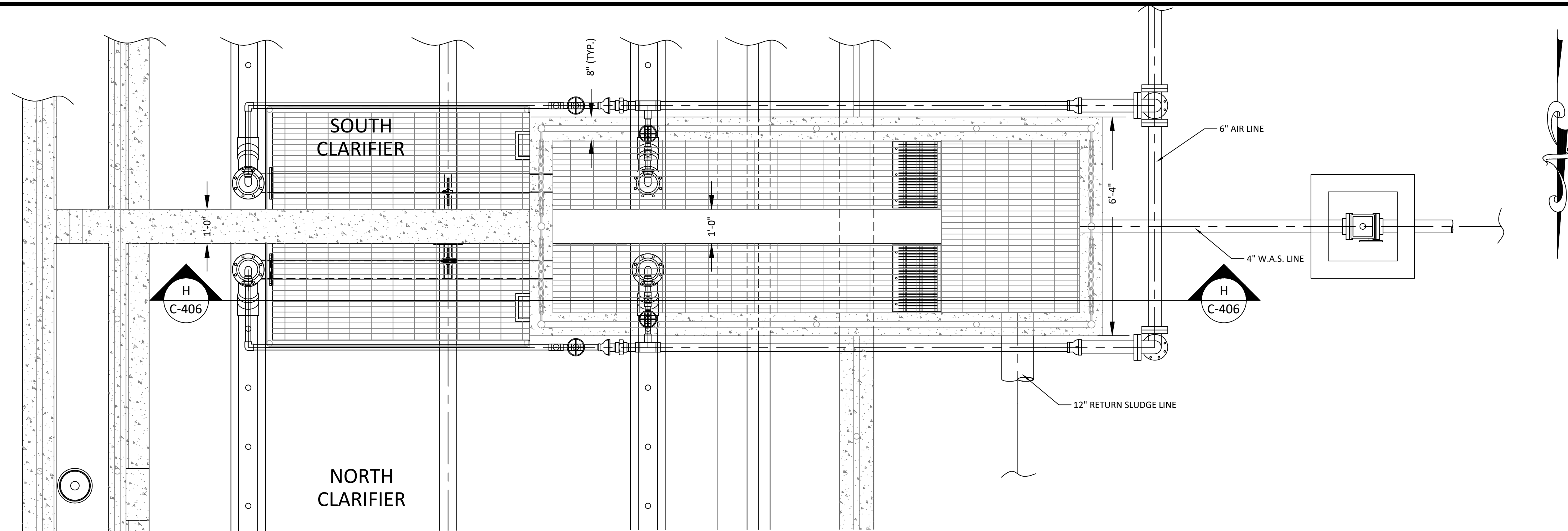
PLAN VIEW - RETURN SLUDGE PIT
N.T.S.

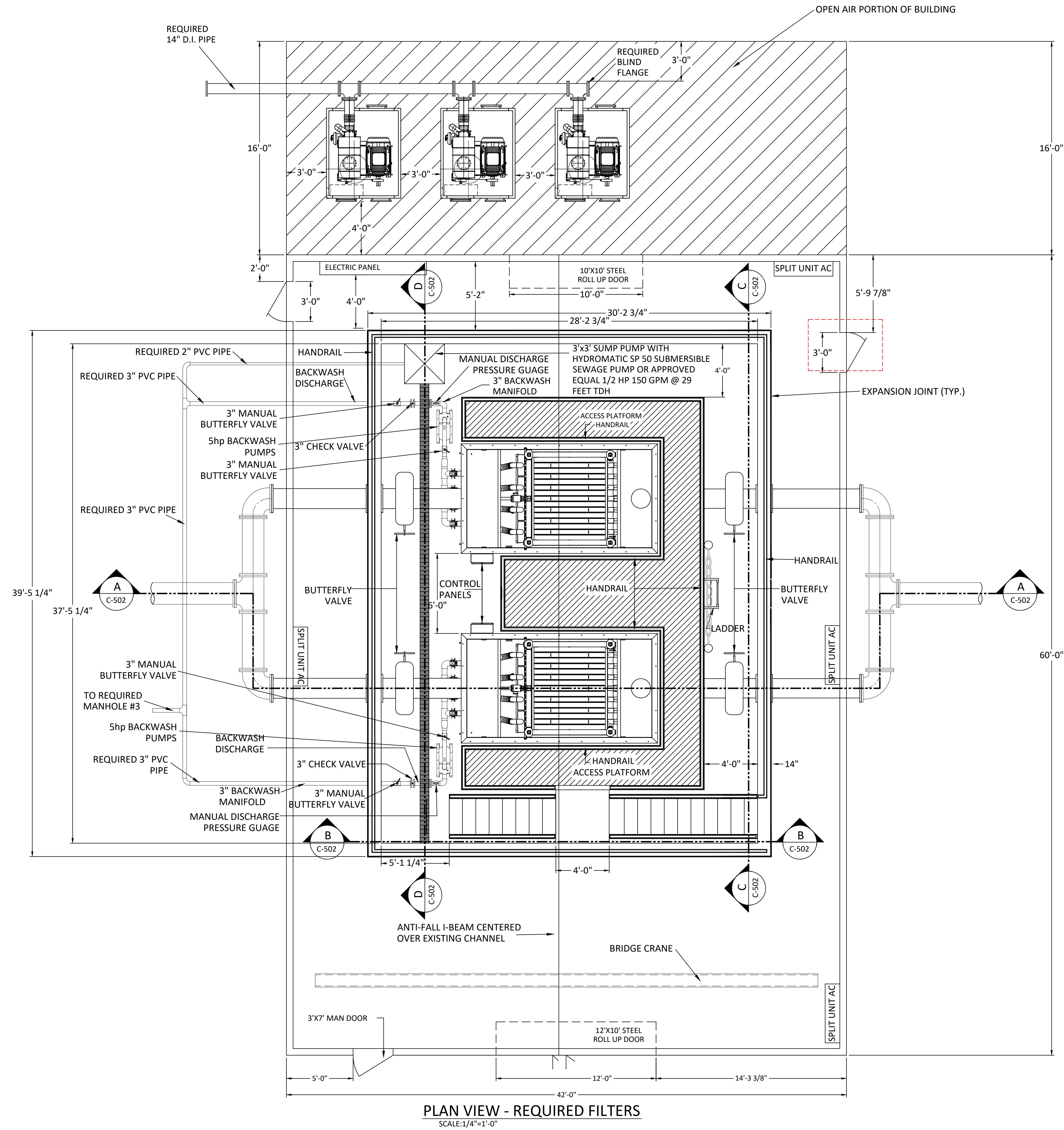


A SECTION - RETURN SLUDGE PIT
C-406 N.T.S.



C SECTION - RETURN SLUDGE PIT
C-406 N.T.S.

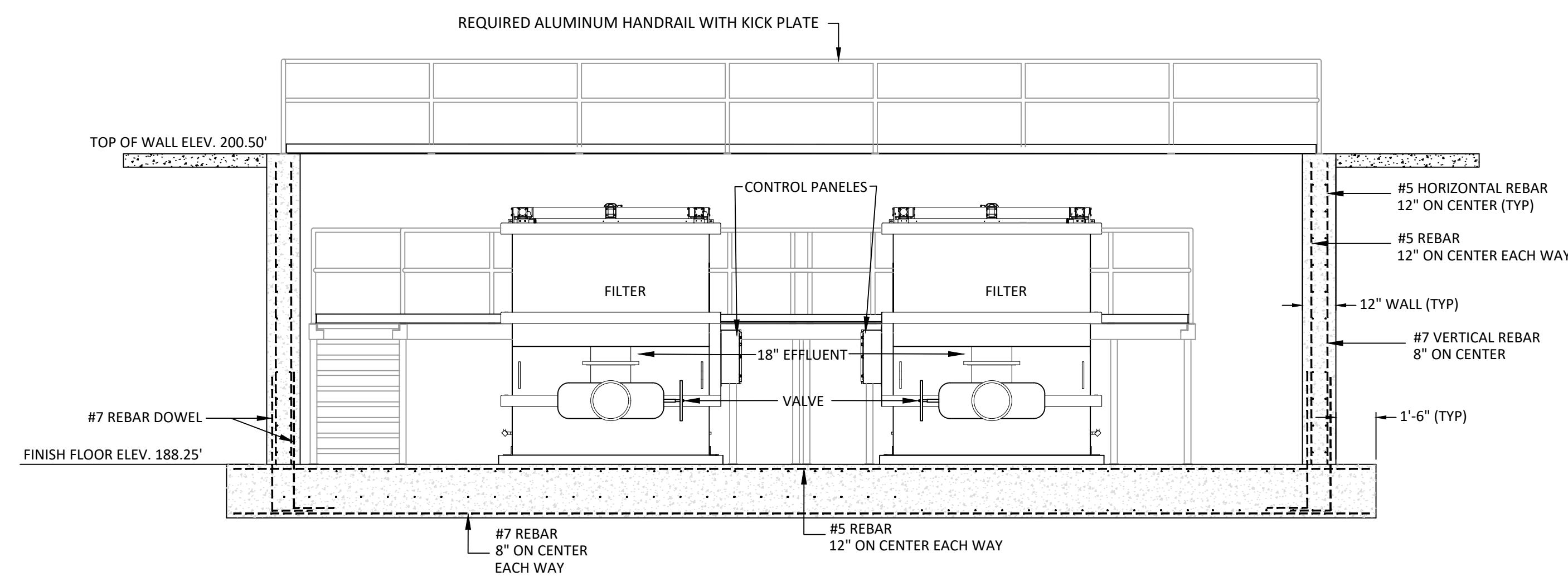




- NOTES:
- ENCLOSED METAL BUILDING SHALL BE PRE-ENGINEERED, METAL FRAMED STRUCTURE. PLANS AND SPECIFICATIONS BEARING PROFESSIONAL ENGINEER'S SEAL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. COLOR OF METAL BUILDING EXTERIOR SHEETS SHALL BE SELECTED BY THE OWNER.
 - ROLL UP STEEL DOORS SHALL BE RAYNOR DURACOIL MODEL FF DOORS WITH MANUAL OPENERS OR APPROVED EQUAL. COLOR OF DOORS SHALL BE SELECTED BY THE OWNER.
 - BRIDGE CRANE SHALL HAVE A $\frac{1}{2}$ TON CAPACITY AND BE ELECTRICALLY OPERATED IN LIFTING DIRECTION WITH A LIFT SPEED OF 15 FEET PER MINUTE. THE AVAILABLE LIFT SHALL BE 20 FEET AND FEATURE AN UPPER LIMIT SWITCH. THE TROLLEY TYPE SHALL BE ELECTRICALLY OPERATED PULL WITH RUBBER BUMPERS AND SAFETY LUGS. CRANE POWER SUPPLY SHALL BE 120 VOLT, SINGLE PHASE, 60 HERTZ. CROSS CONDUCTORS SHALL BE ROUND FESTOONED CABLE. BRIDGE CRANE AND SUPPORT SYSTEM SHALL BE CONNECTED TO METAL BUILDING STRUCTURAL MEMBERS. DESIGN OF BRIDGE CRANE AND SUPPORT SYSTEM BEARING PROFESSIONAL ENGINEER'S SEAL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
 - FOOTINGS AND REINFORCEMENT SHOWN FOR INFORMATION ONLY, PLANS AND SPECIFICATIONS BEARING PROFESSIONAL ENGINEER'S STAMP TO BE SUBMITTED TO ENGINEER FOR APPROVAL BASED UPON AN ALLOWABLE SOIL BEARING PRESSURE OF 1,000 POUNDS PER SQUARE FEET.
 - SPLIT AIR CONDITIONING UNITS SHALL BE THREE (3) TON UNIT AS MANUFACTURED BY MITSUBISHI OR APPROVED EQUAL.

-
- The drawing consists of two parts: a plan view of a filter and a side elevation of the building structure.
- Plan View (Bottom):**
- Filter:** A central rectangular unit with a 1/2" SLOPE indicated on its base.
 - Backwash System:** Includes a 3" BACKWASH MANIFOLD, 18" INFLUENT line, BACKWASH DISCHARGE, BUTTERFLY VALVE, and #7 REBAR DOWEL. A 5hp BACKWASH PUMP is shown at the bottom left.
 - Effluent System:** Includes an 18" EFFLUENT line and a BUTTERFLY VALVE.
 - Reinforcement:** #7 REBAR 8" ON CENTER EACH WAY and #5 REBAR 12" ON CENTER EACH WAY are shown around the filter and in the walls.
 - Drainage:** ADD 2" ON/OFF MANUAL BALL VALVE TO FEMALE THREADED 2" TANK DRAIN and 3" BACKWASH FLEX HOSE.
 - Gate Valve:** REQUIRED GATE VALVE & CHECK VALVE (TYPICAL ALL BACKWASH PUMPS AND SUMP PUMP).
 - Dimensions:** 1'-11-1/2", 3'-0", 1'-6", 2'-0", 4'-6", 1'-6".
 - Ground Level:** FINISH FLOOR ELEV. 188.25'.
- Side Elevation (Top):**
- Structure:** A building with a gabled roof and a ROLL-UP STEEL DOOR.
 - Crane:** 1/2 TON BRIDGE CRANE mounted on a track.
 - Filters:** Two rectangular filter units are shown, one of which is being lifted by the crane.
 - Dimensions:** 16'-0" (height), 12" (width), 1" (width), 1'-6" (MINIMUM) (height), 5' (width).
 - Labels:** ANTI-FALL I-BEAM CENTERED OVER REQUIRED FILTERS, REQUIRED ALUMINUM HANDRAIL WITH KICK PLATE, TOP OF WALL ELEV. 199.50'.

NOTE: BUILDING NOT SHOWN FOR CLARITY



ALUMINUM GRATING

3'-0"

6"

8"

BLOWUP
SCALE: 1"=3/8"

NOTE: EQUIPMENT AND STAIRS NOT SHOWN FOR CLARITY

EQUIPMENT PAD

1/2% SLOPE

B
C-502

SECTION - DRAIN
SCALE: 1"=3/8"

D
C-502

SECTION - TRENCH DRAIN
SCALE: 1"=3'/16"

6"

BOTTOM OF TRENCH DRAIN 1/2% SLOPE

9 3/4"

3'-0"

3' SUMP

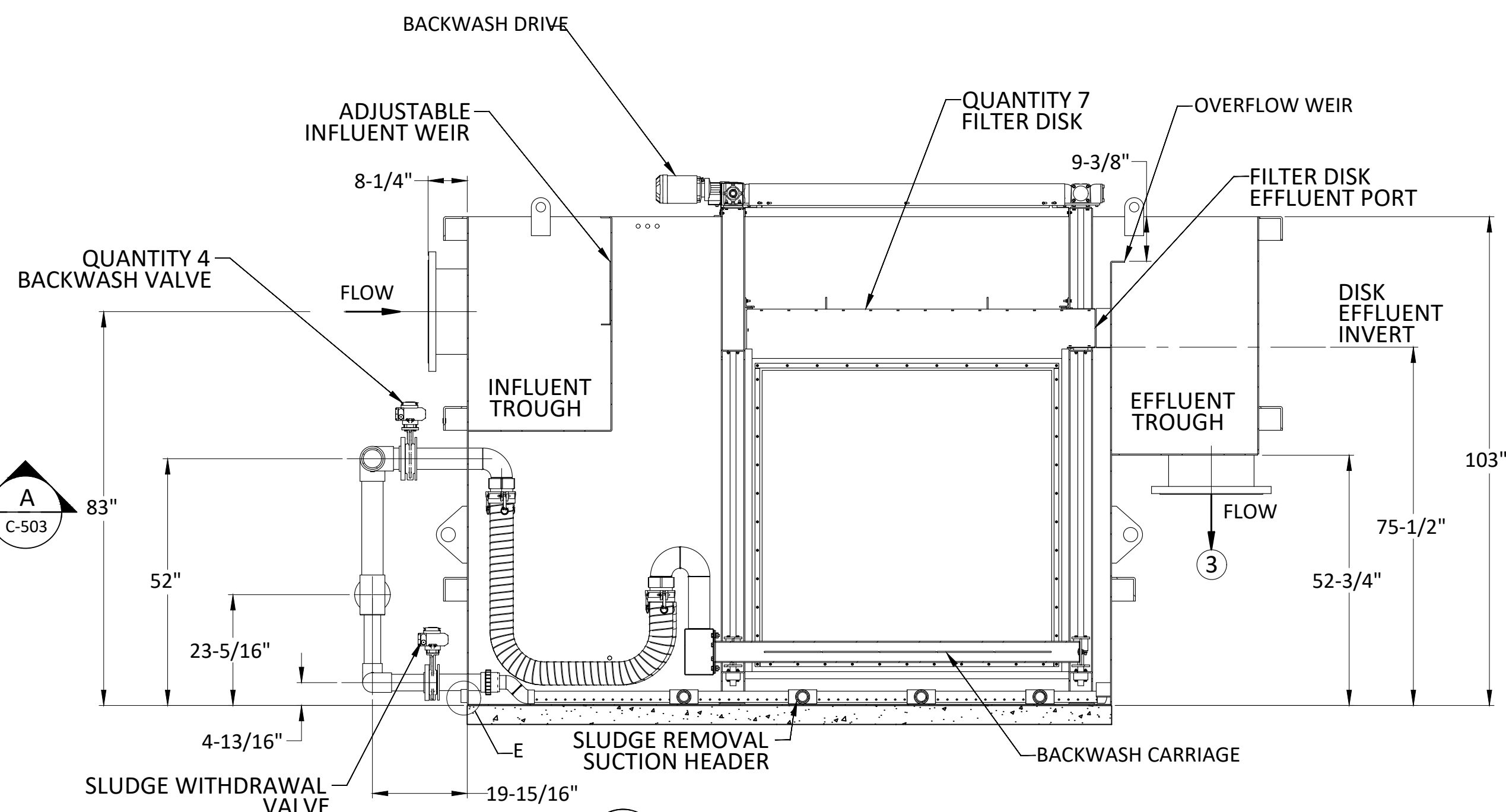
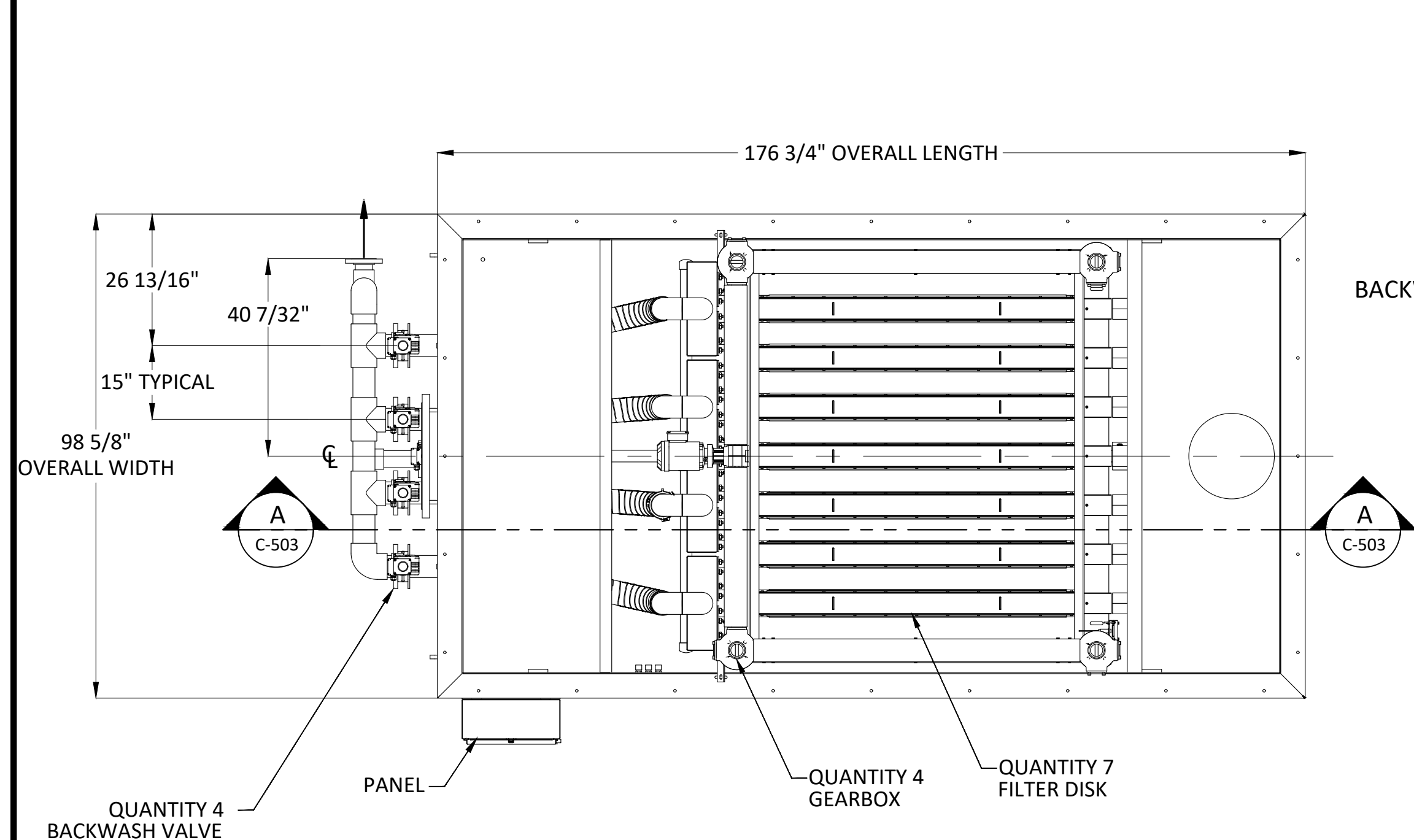
3'-0"

SEE SUMP DETAILS

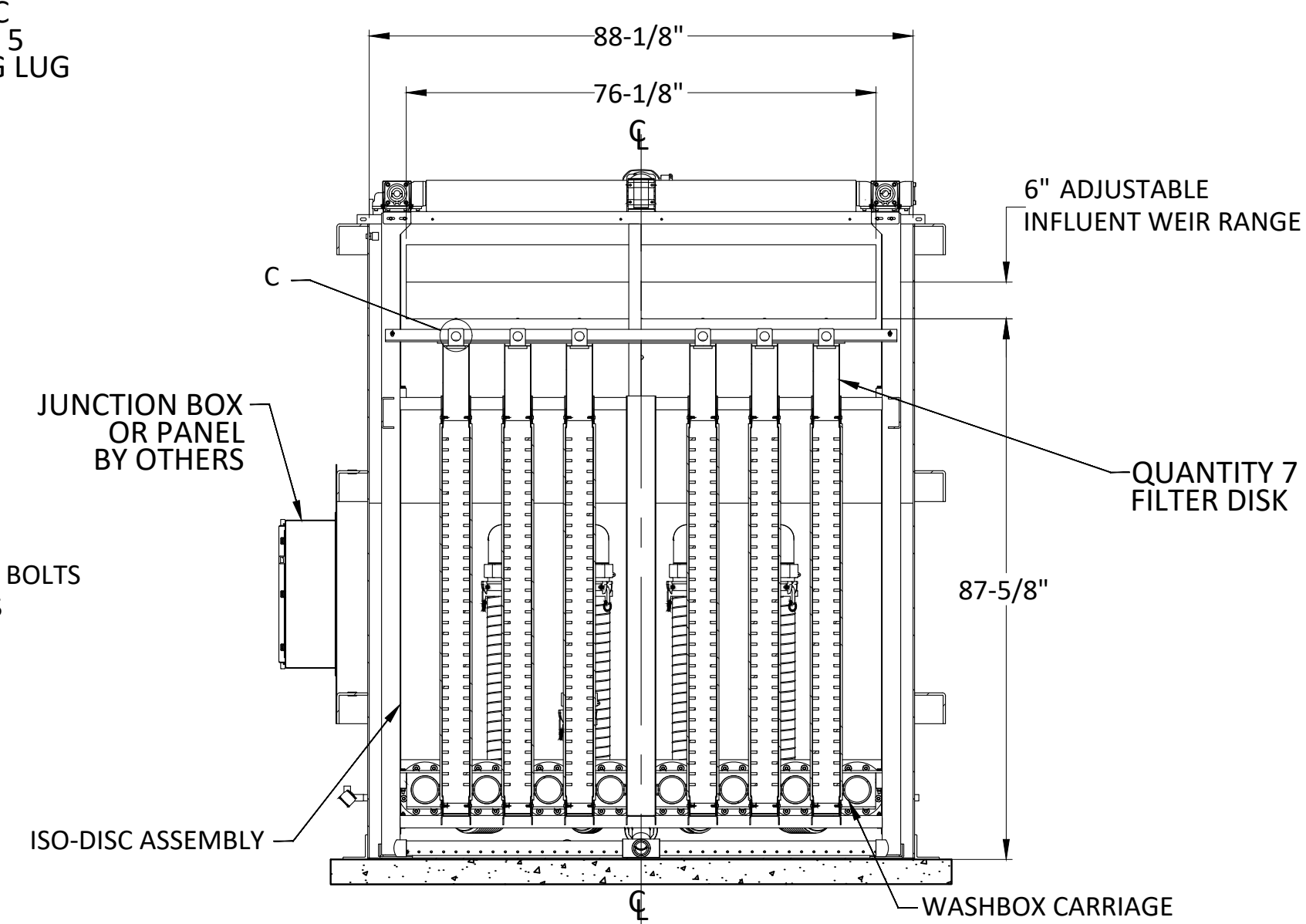
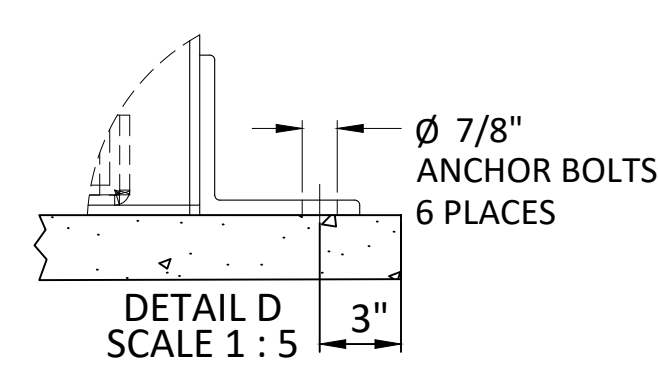
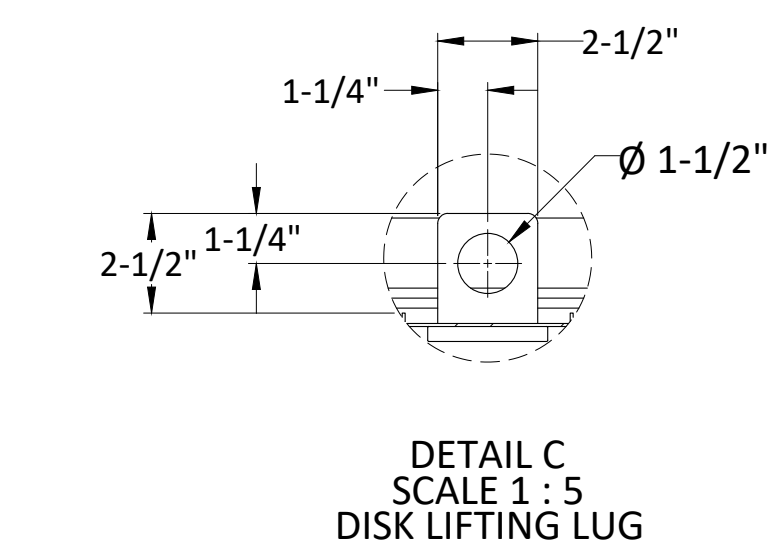
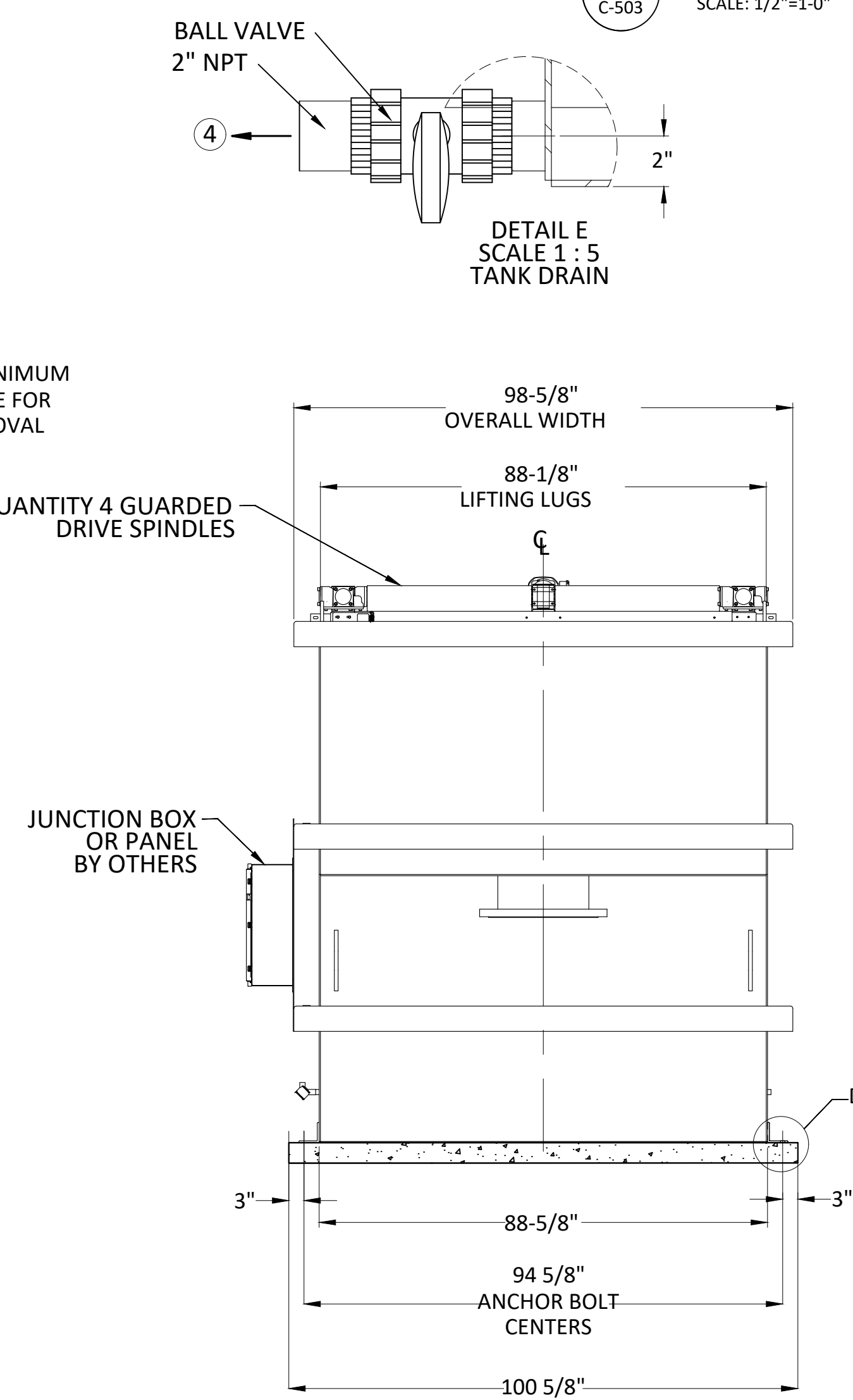
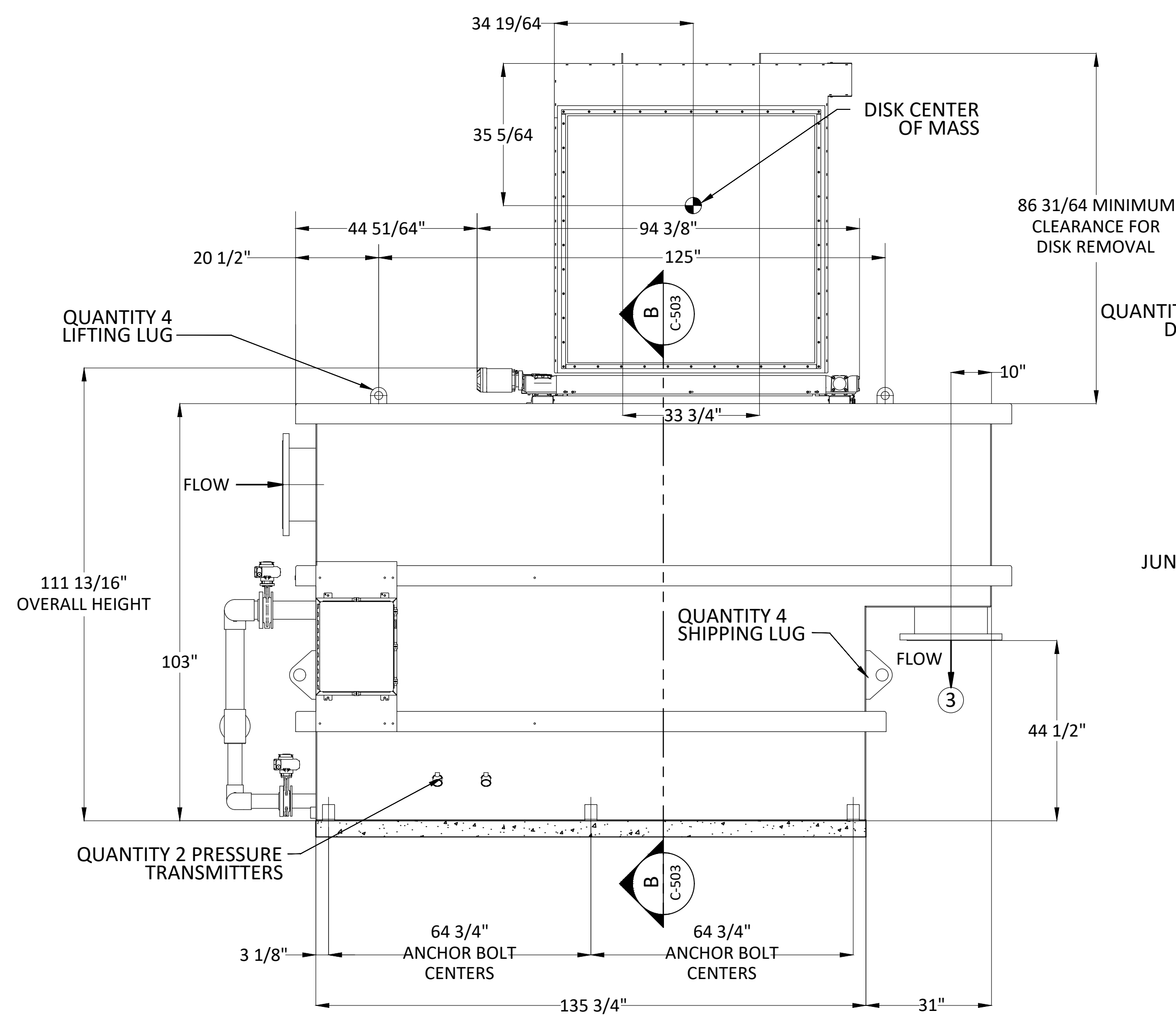
SECTION A-A

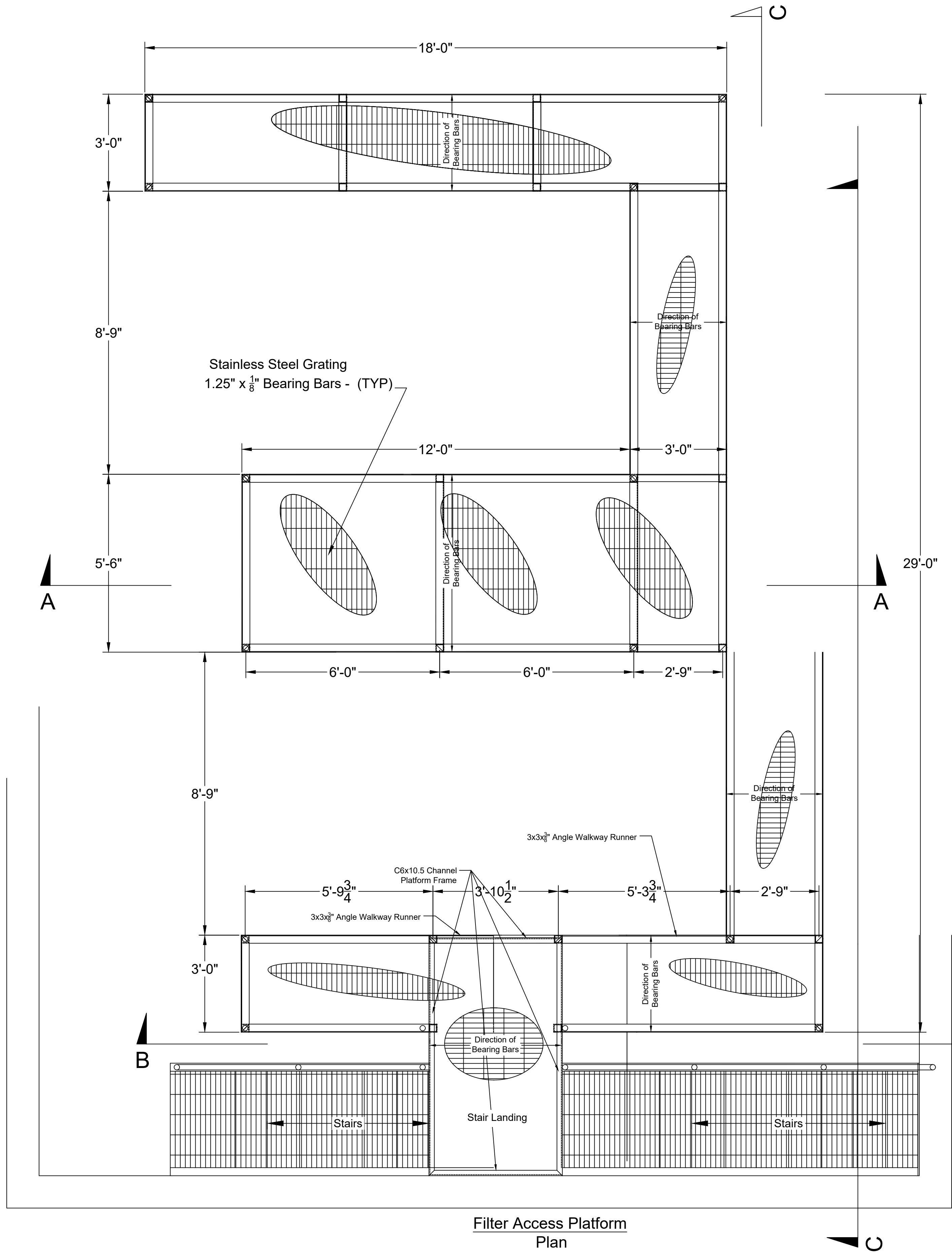
The diagram is a plan view of a sump. It features a central square sump labeled "SUMP" with dimensions of 3'-0" by 3'-0". This sump is surrounded by an 8" (Typ) thick wall. The wall is reinforced with #5 Straight Bars (Typ) and #5A Bars (Typ). The entire sump assembly is enclosed by a 12" enclosure wall, which is supported by an enclosure footing. A section line A-A is indicated on the left side of the diagram.

SUMP DETAILS

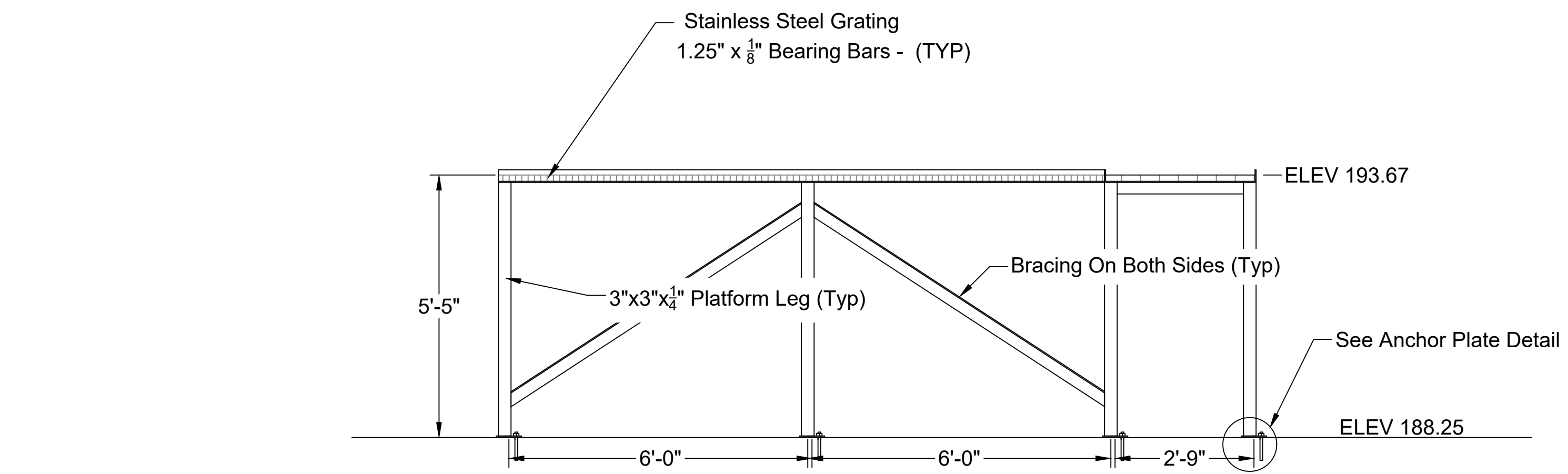


Connections			
Ref. No.	Port Description	Size	Type
1	Influent	18"	150#
2	Backwash\Sludge Withdrawl	4"/3"	150#
3	Effluent	18"	150#
4	Tank Drain	2" NB	NPT





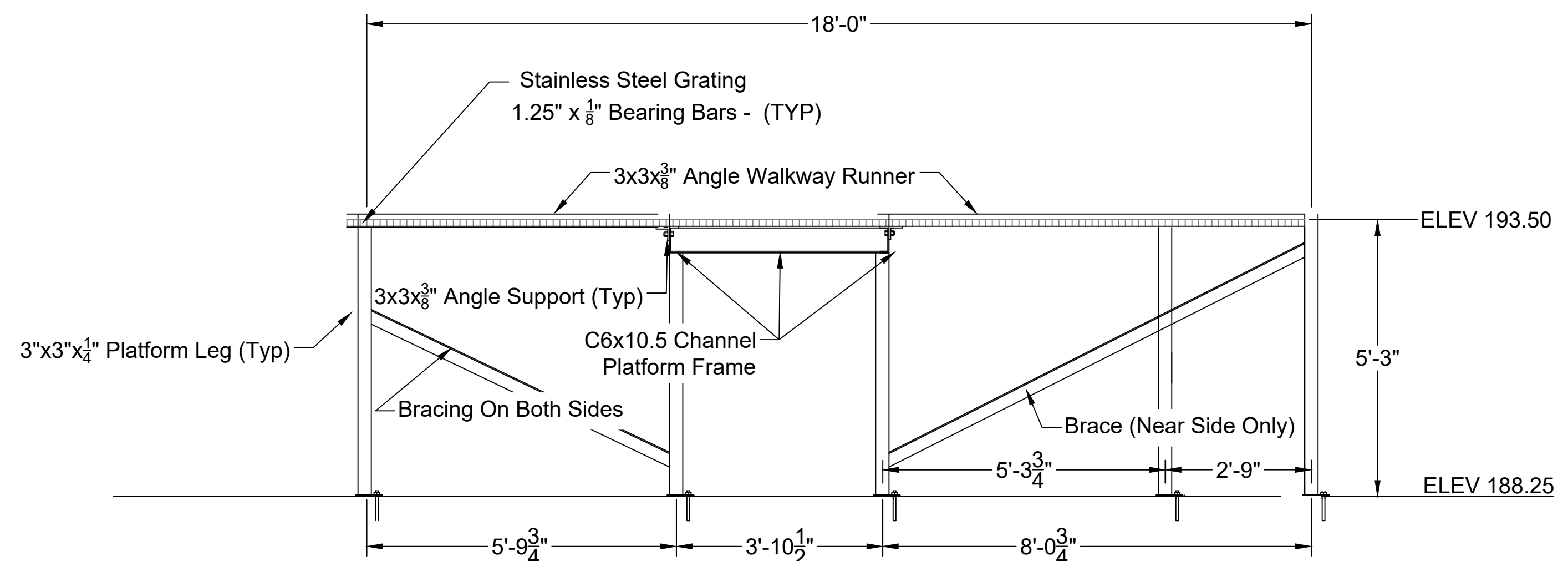
Filter Access Platform
Plan



Section A - A

Platform Runners and Bracing are 3"x3"x³/₈"
Stainless Steel Single Angles

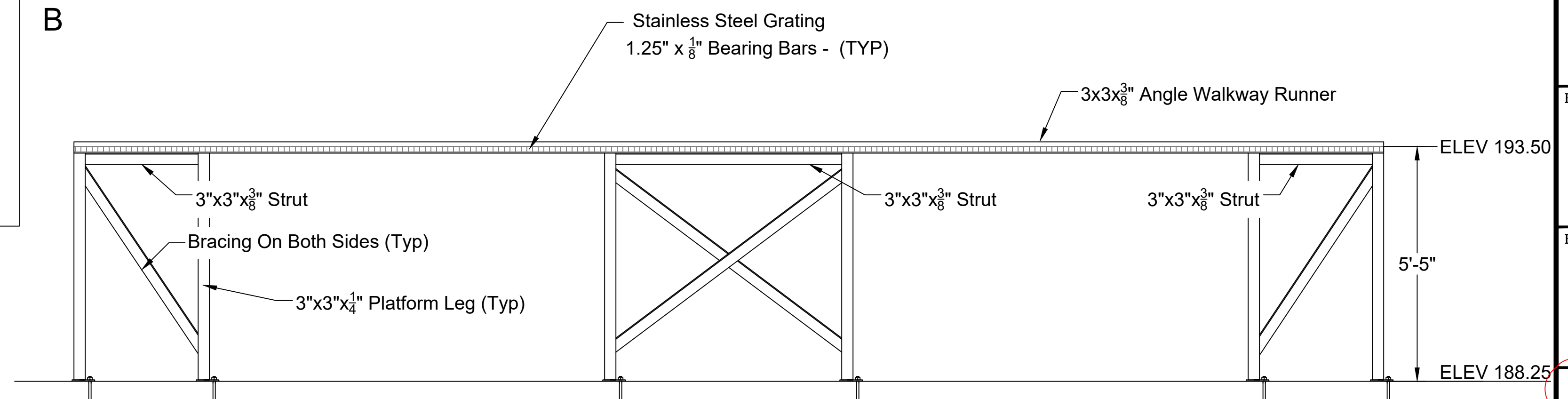
Platform Legs are 3"x3"x¹/₄" Stainless Steel
Square Tubing



Section B - B

Platform Runners and Bracing are 3"x3"x³/₈"
Stainless Steel Single Angles

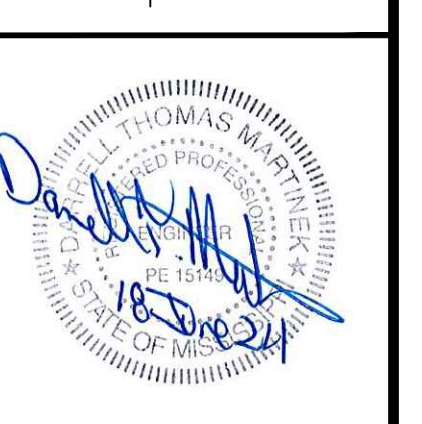
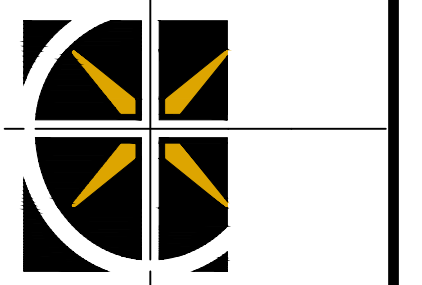
Platform Legs are 3"x3"x¹/₄" Stainless Steel
Square Tubing



View C - C

Platform Runners and Bracing are 3"x3"x³/₈"
Stainless Steel Single Angles

Platform Legs are 3"x3"x¹/₄" Stainless Steel
Square Tubing

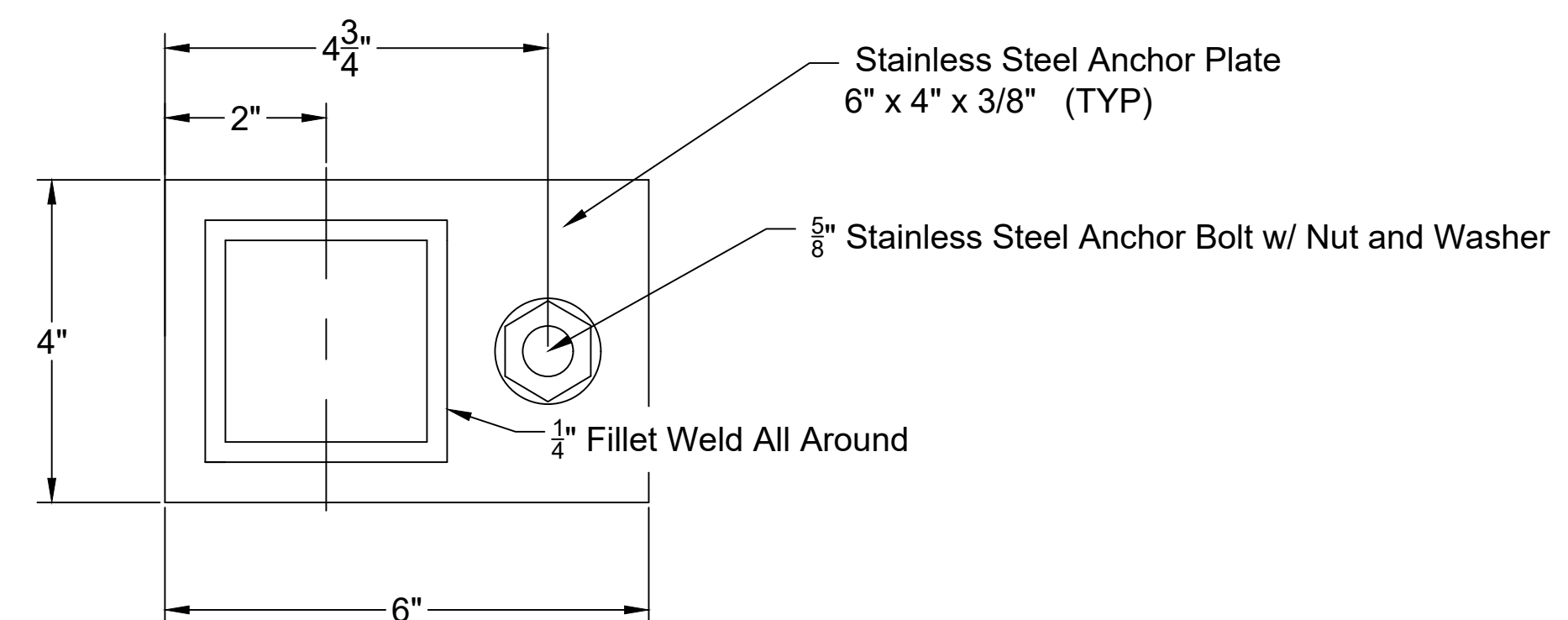
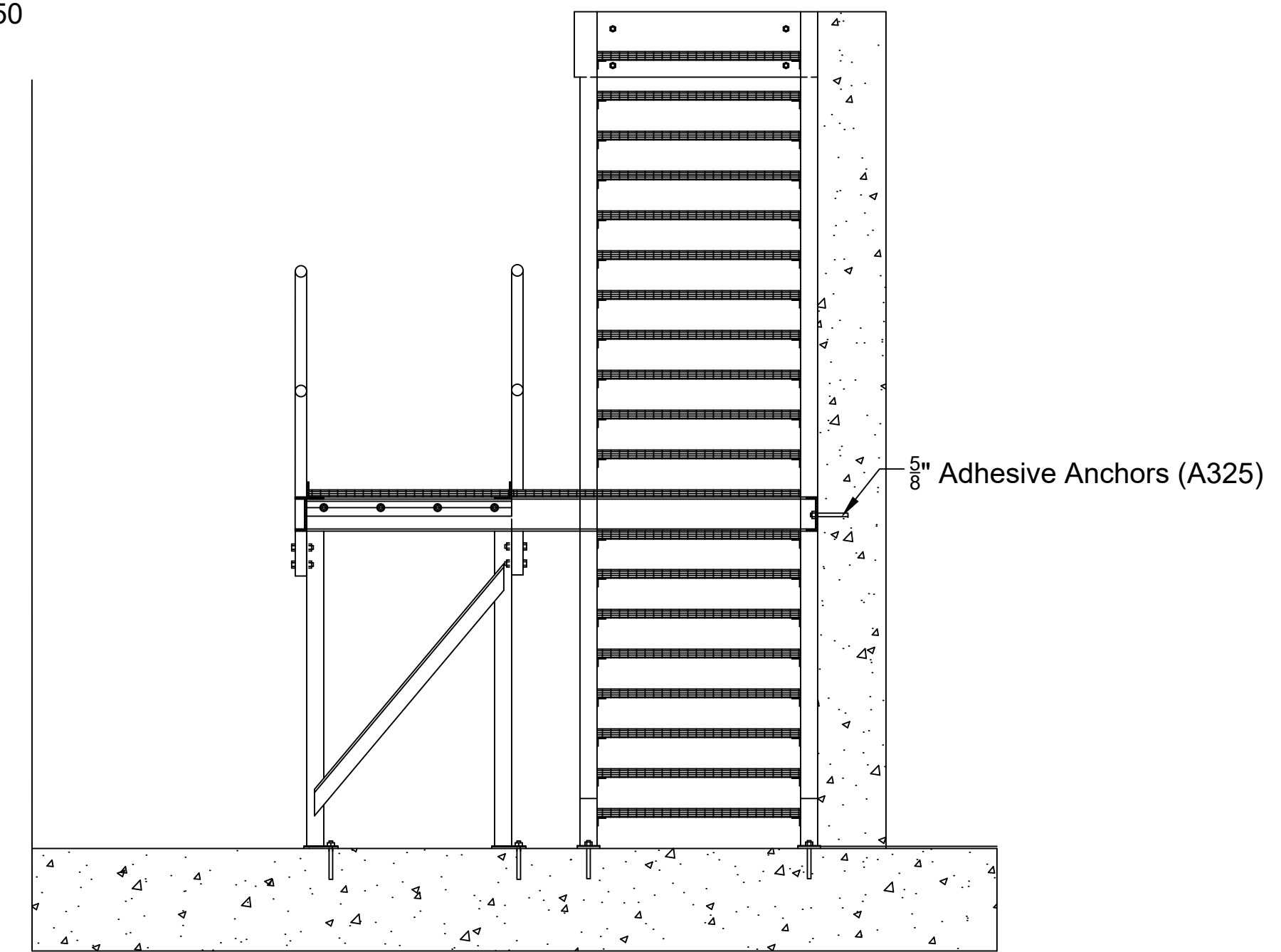
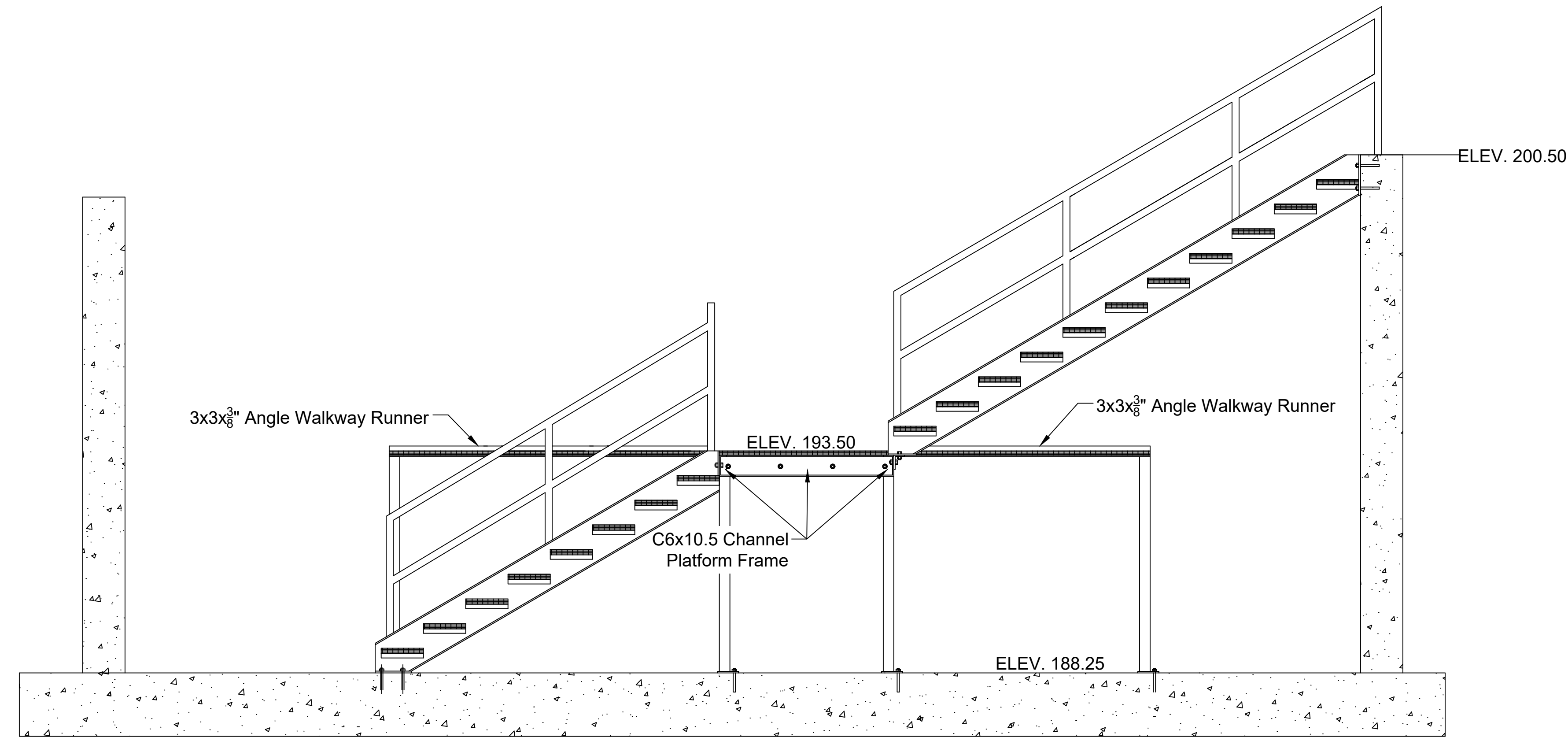


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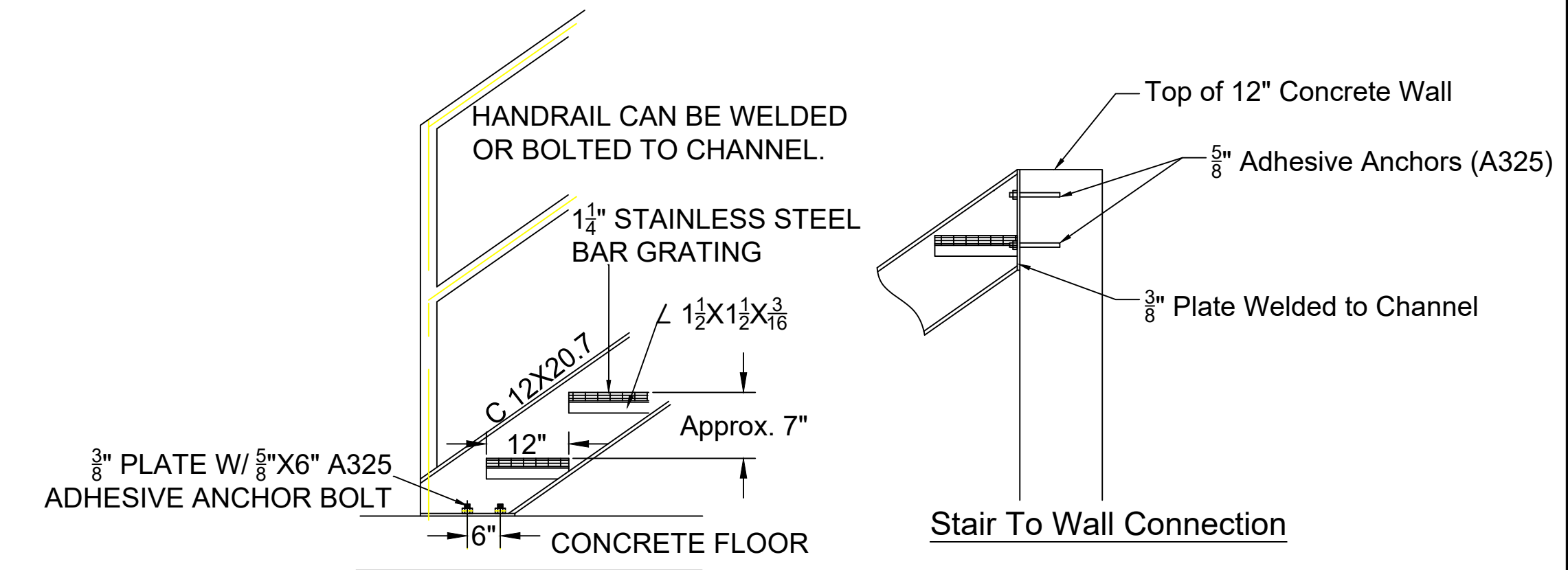
Burle Proj. No.:
08194-1-0122
File Name:
FILTER PIT PLATFORM.dwg
Date: 04/29/2024
Scale: 1"=2'
Drawn by: MC
Checked: DTM
Revisions:
06/18/2024
ADDENDUM NO. 3.

Revisions:

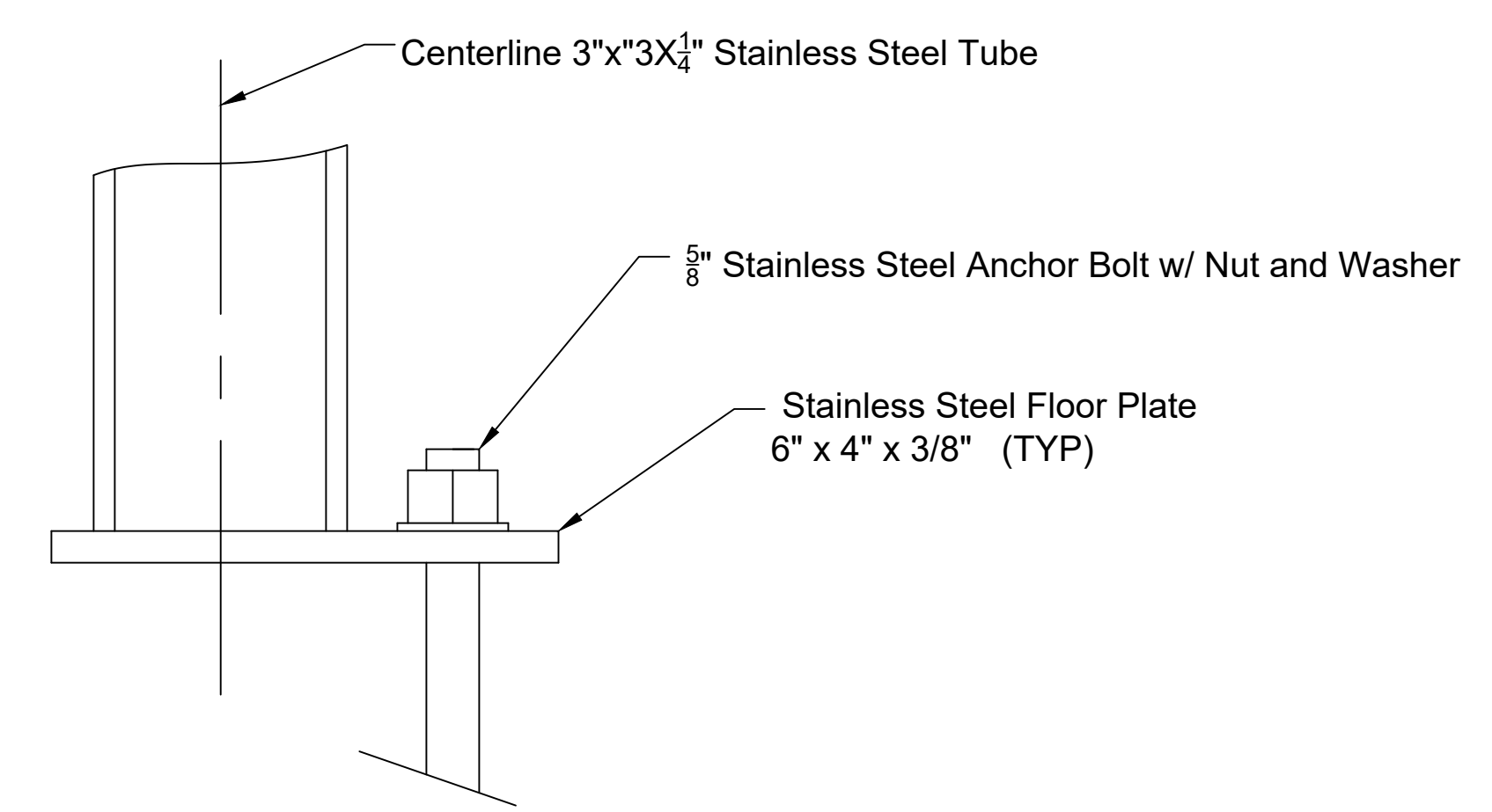
Revisions:



Anchor Plate
Plan

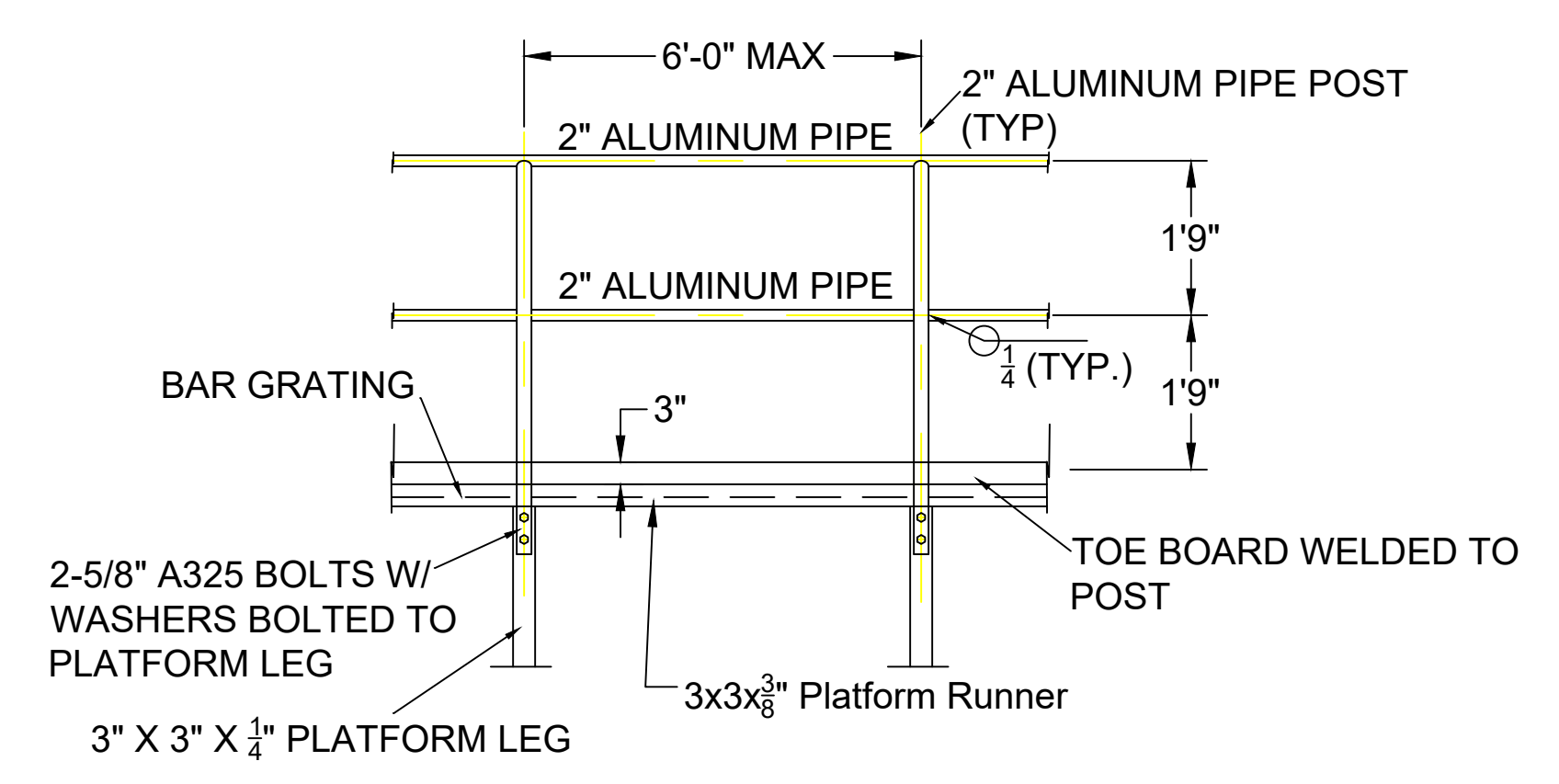


Stair Detail

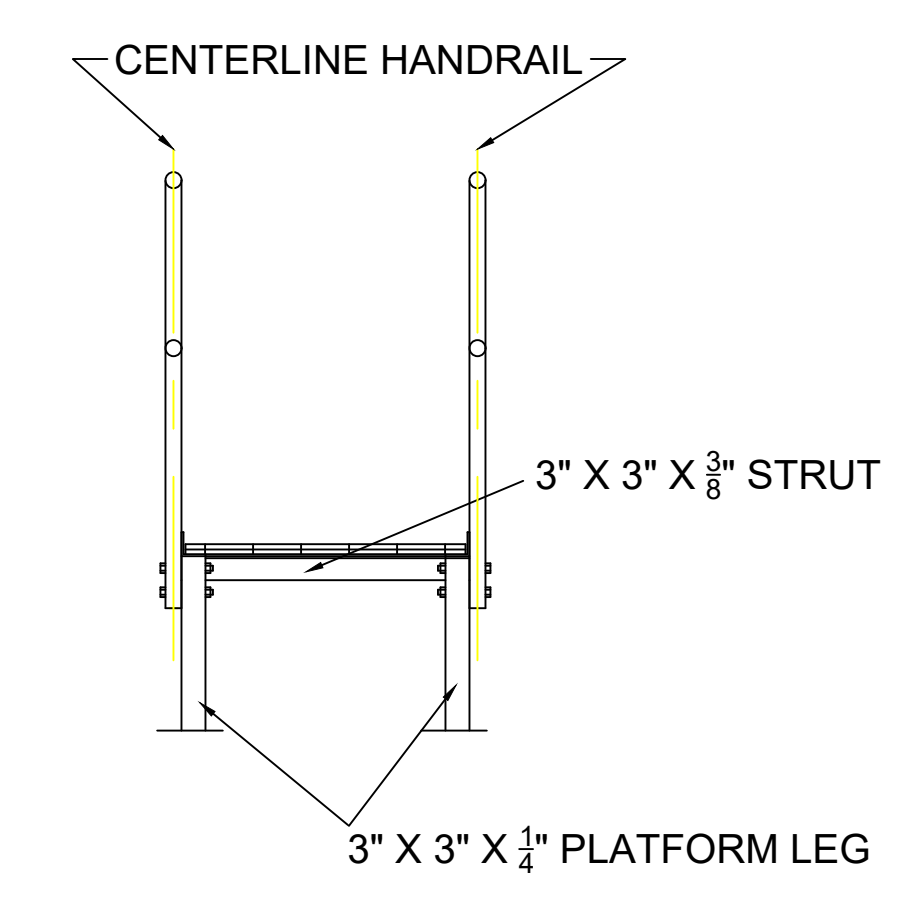


Section A - A

Anchor Plate Detail



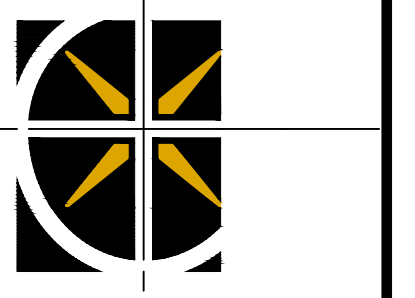
ALUMINUM HANDRAIL ELEVATION



ALUMINUM HANDRAIL CROSS SECTION

ALUMINUM HANDRAIL DETAIL

W. L. BURLE
ENGINEERS, P.A.
111 South Walnut Street
Greenville, MS 38701



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08194-1-0122

File Name:
FILTER PIT PLATFORM.dwg

Date: 04/29/2024

Scale: 1"=2'

Drawn by: MC

Checked: DTM

Revisions:
06/18/2024
ADDENDUM NO. 3.

Revisions:

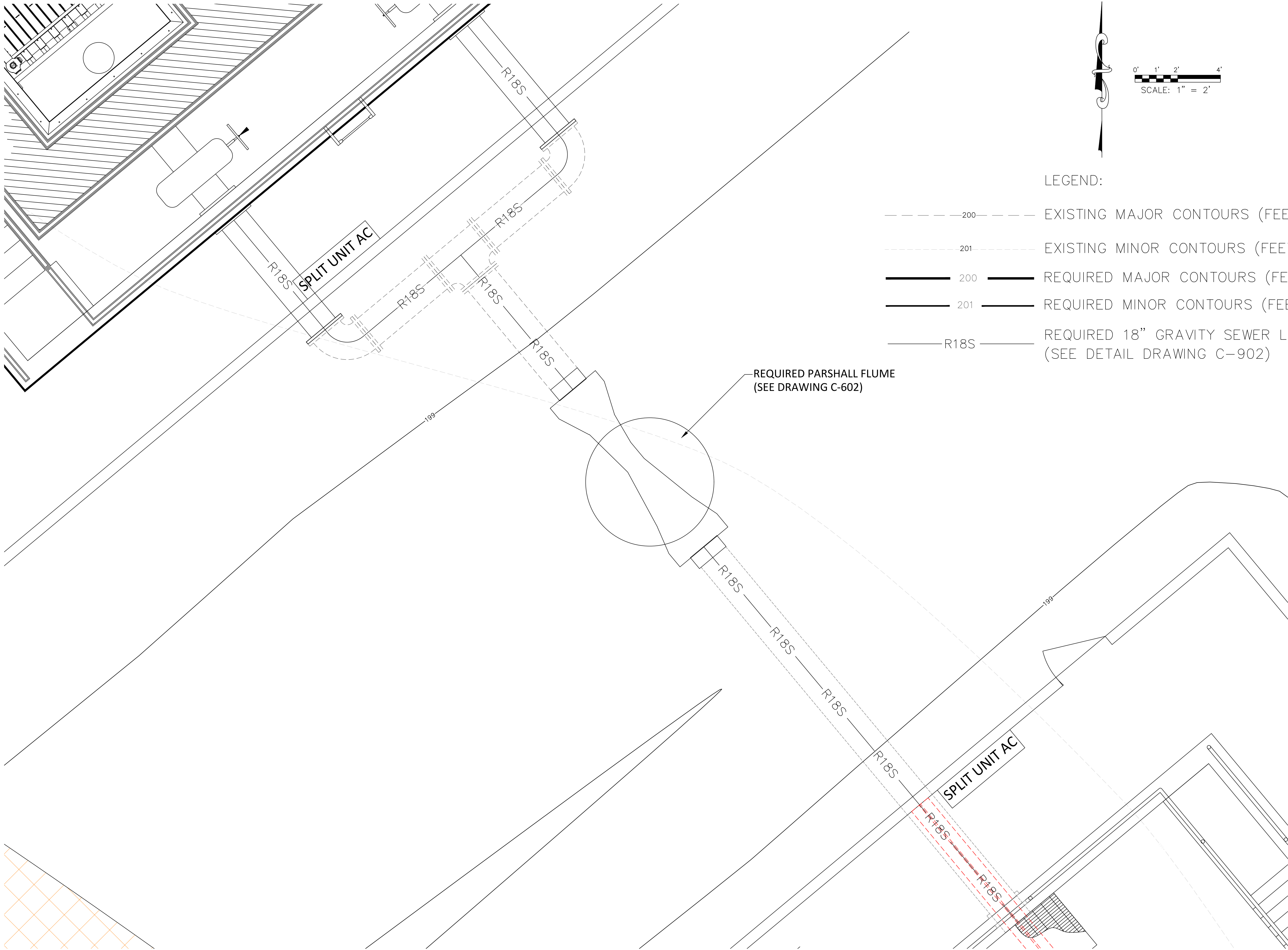
Revisions:

Revisions:

Revisions:

DETAILS - FILTER PIT STAIRS

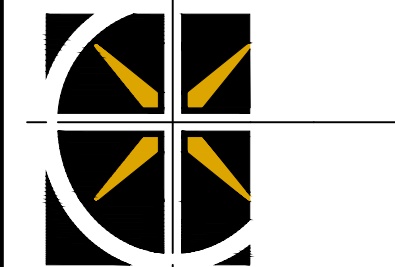
C-505
Drawing Number



LEGEND:

- 200 --- EXISTING MAJOR CONTOURS (FEET)
- 201 --- EXISTING MINOR CONTOURS (FEET)
- 200 — REQUIRED MAJOR CONTOURS (FEET)
- 201 — REQUIRED MINOR CONTOURS (FEET)
- R18S — REQUIRED 18" GRAVITY SEWER LINE (SEE DETAIL DRAWING C-902)

W.L. BURLE
ENGINEERS, P.A.
111 South Walnut Street
Greenville, MS 38701



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Burle Proj. No.:
08194-1-0122

File Name:
C-601 PLAN SHEET -
PARSHALL FLUME.DWG

Date: 04/29/2024

Scale: AS SHOWN

Drawn by: MJJ/JRG

Checked: DTM

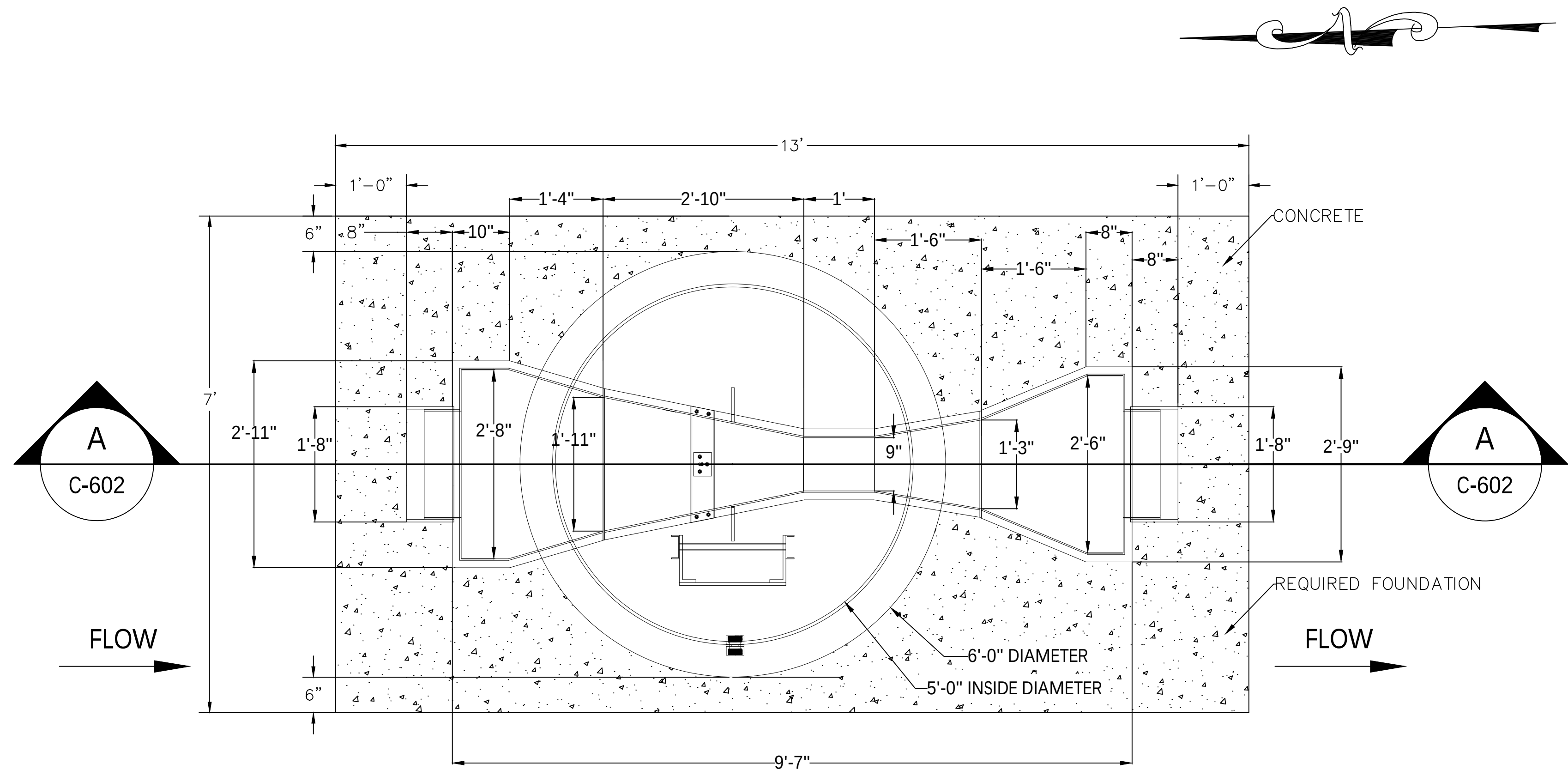
Revisions:

Revisions:

Revisions:

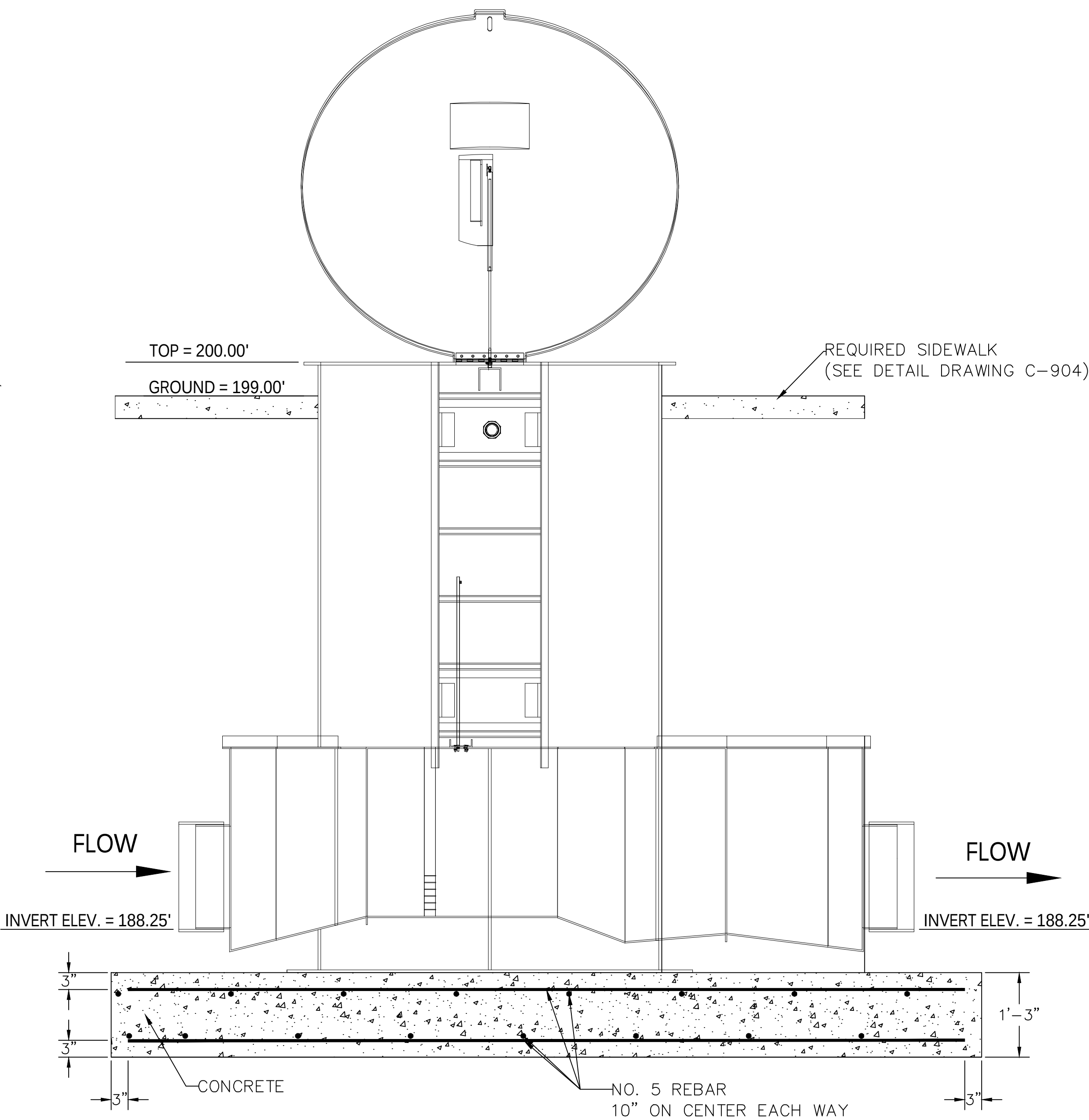
PLAN VIEW -
PARSHALL FLUME

C-601
Drawing Number



NOTE: CONCRETE MAINTENANCE PAD NOT SHOWN FOR CLARITY (SEE DRAWING C-601)

PLAN VIEW - REQUIRED PARSHALL FLUME
NOT TO SCALE



SECTION - PARSHALL FLUME
NOT TO SCALE



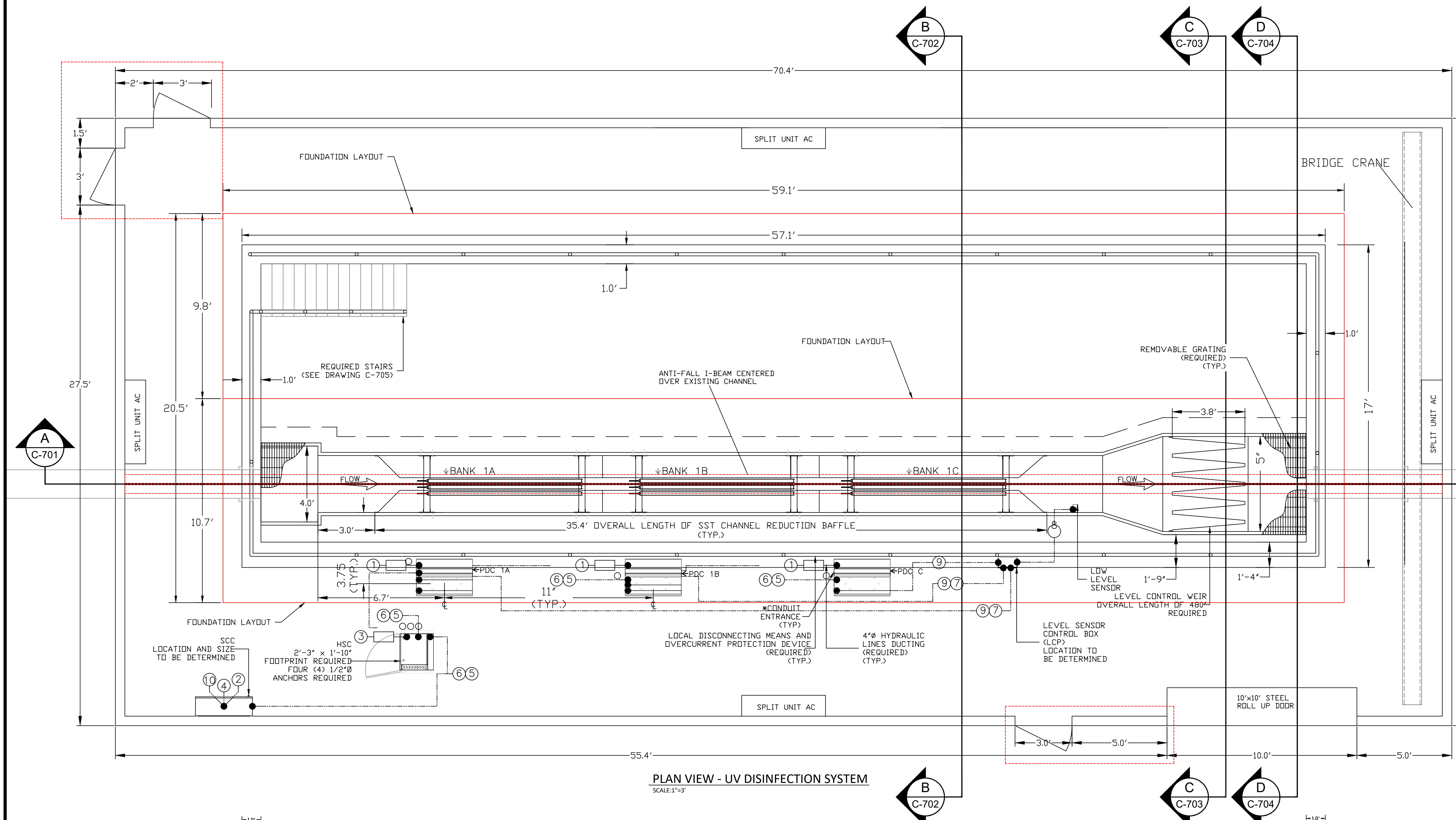
GS#323-024 ARPA INFR. - WASTE
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Burle Proj. No.:
08194-1-0122
File Name:
C-602 PARSHALL FLUME.dwg
Date: 04/29/2024
Scale: 1"=30'
Drawn by: MJJ/JRG/AGG
Checked: DTM
Revisions:
06/18/2024
ADDENDUM NO. 3.

Revisions:

Revisions:

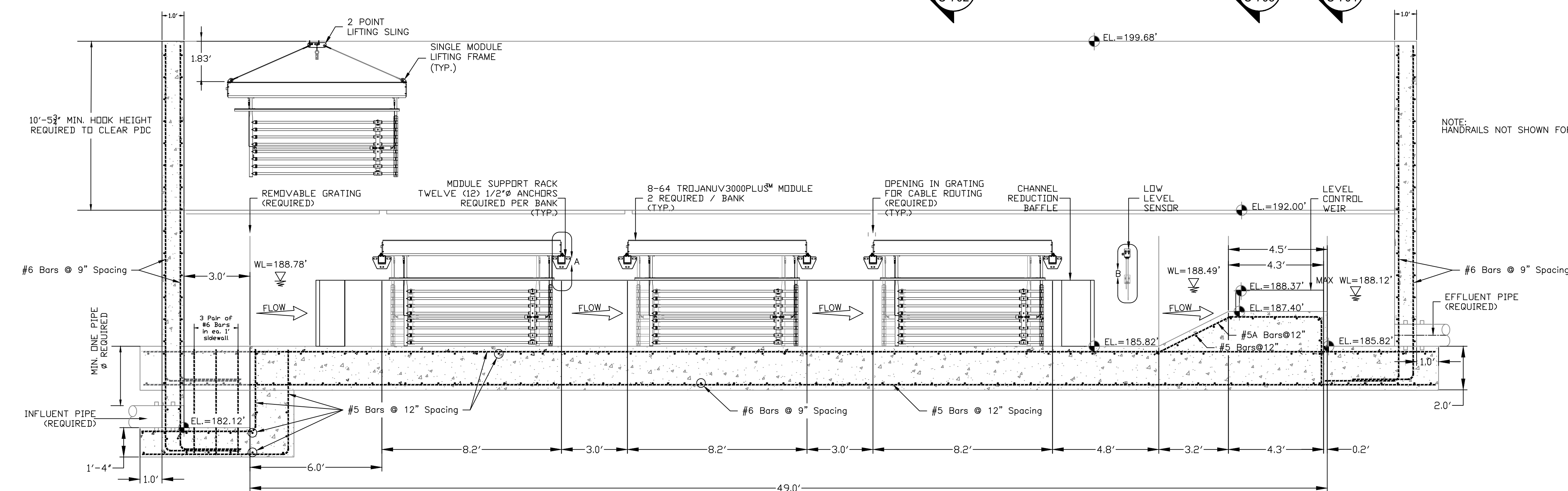
SECTION -
PARSHALL FLUME



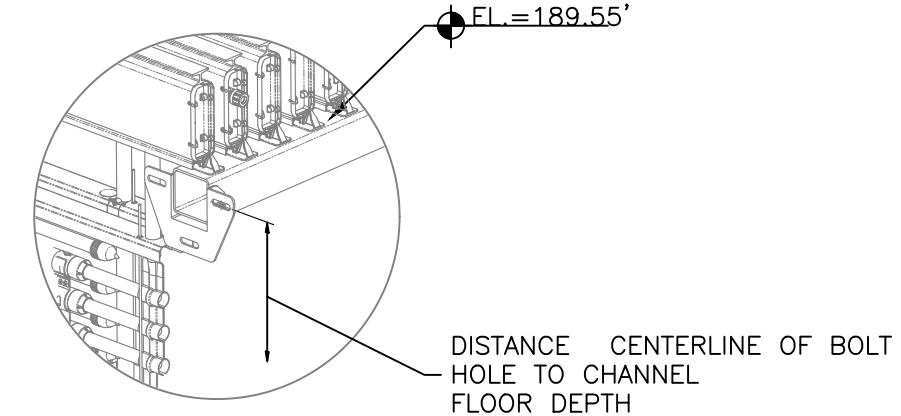
PLAN VIEW - UV DISINFECTION SYSTEM
SCALE: 1"=3'

No.	DESCRIPTION	FROM	TO
1	POWER DISTRIBUTION CENTER (PDC) POWER SUPPLY 480Y/277V, 3 PHASE, 4 WIRE + GROUND 4.1 kVA/PDC POWER DRAW 8 AMPS MAXIMUM CURRENT/PHASE	DISTRIBUTION PANEL (DP) (REQUIRED) (NOT SHOWN)	PDCs
2	SYSTEM CONTROL CENTER (SCC) POWER SUPPLY 120V, 1 PHASE, 2 WIRE + GROUND 1.44 kVA, 12 AMPS	DISTRIBUTION PANEL (DP) (REQUIRED) (NOT SHOWN)	SCC
3	HYDRAULIC SYSTEMS CENTER (HSC) POWER SUPPLY 480V, 3 PHASE, 3 WIRE + GROUND 2.5 kVA, 3 AMPS	DISTRIBUTION PANEL (DP) (REQUIRED) (NOT SHOWN)	HSC
4	FLOW METER 4-20 mA, DC ANALOG INPUT	FLOW METER PANEL (NOT SHOWN) (REQUIRED)	SCC
5	GROUND LINK 14 AWG TYPE TWH STRANDED	SCC	PDCs THRU HSC (DAISY CHAINED)
6	MODBUS 1 SHIELDED TWISTED PAIR	SCC	PDCs THRU HSC (DAISY CHAINED)
7	LEVEL CONTROL BOX (LCP) POWER SUPPLY 24 VDC - 2 CONDUCTORS	PDC 1A & 1B	LCP
X	DISCRETE LOW LEVEL SIGNAL 24 VDC - 2 CONDUCTORS	SOURCE	FROM
9	DISCRETE WATER LEVEL SIGNAL 24 VDC - 2 CONDUCTORS	LCP	PDCs
10	MODBUS ETHERNET (PLC) COMMUNICATION	SCC	PLANT SCADA (REQUIRED) (NOT SHOWN)

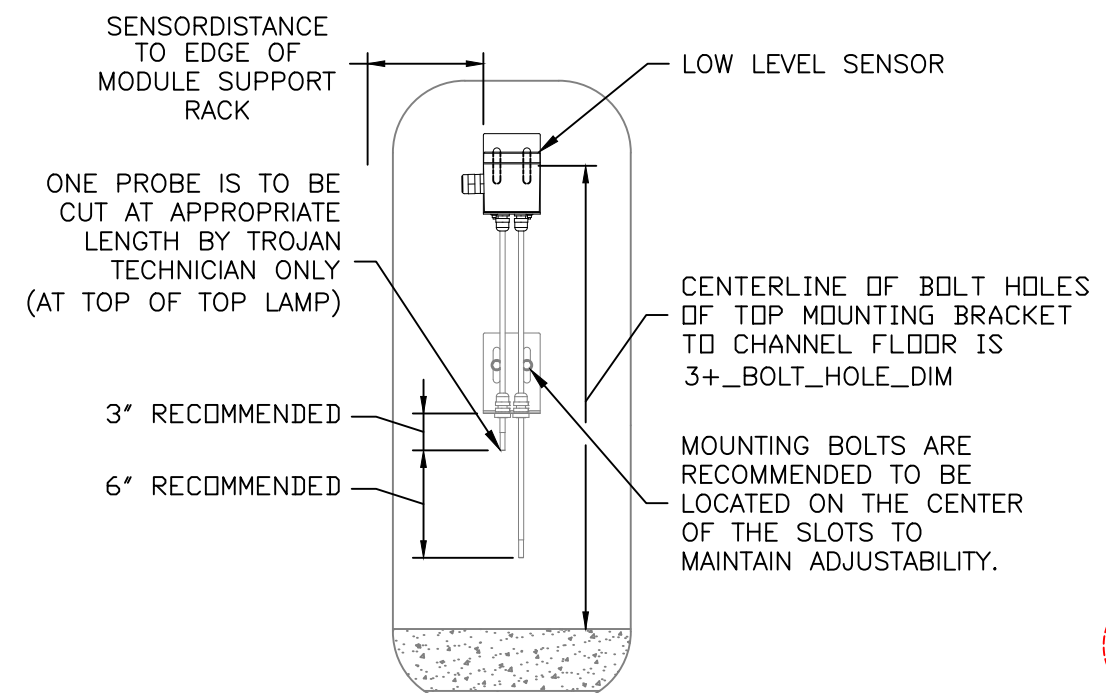
NOTES:
DO NOT SLOPE CHANNEL FLOOR.
CHANNEL WIDTH & DEPTH MUST BE KEPT WITHIN A TOLERANCE OF + OR - 1/4".
SYSTEM CONDUIT, WIRING, DISTRIBUTION PANELS & INTERCONNECTIONS REQUIRED.
CONDUIT RUN BETWEEN HSC AND PDC 1A & 1B IS 20' MAXIMUM. CONDUIT RUN BETWEEN HSC AND PDC 1C IS 45' MAXIMUM.
HSC HYDRAULIC ENTRANCES NOT BE MORE THAN 1'-0" BELOW PDC MOUNTING ELEVATION TO PREVENT HSC PUMP FLOODING.
POWER AND LOW VOLTAGE CONDUITS MUST ENTER LABELED LOCATION ON LEFT SIDE OF PDC.



SECTION - UV DISINFECTION SYSTEM
SCALE: 1"=3'

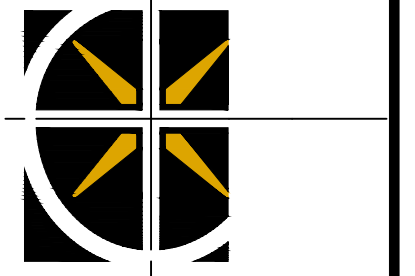


DETAIL A
SCALE: NOT TO SCALE



DETAIL B
SCALE: NOT TO SCALE

W.L. BURLE
ENGINEERS, P.A.
111 South Walnut Street
Greenville, MS 38701



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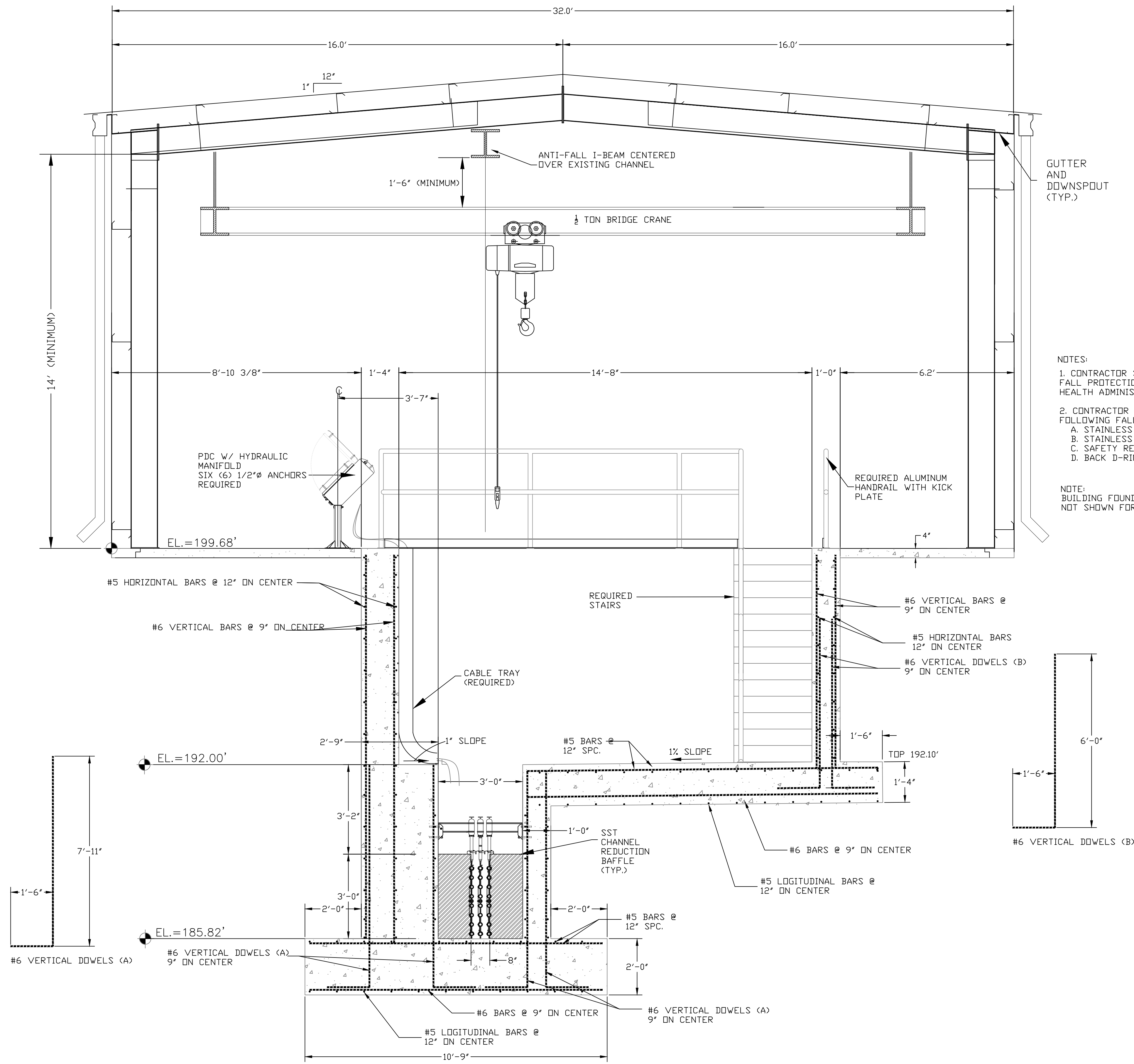
Burle Proj. No.:
08194-1-0122
File Name:
C-701 DISINFECTION SYSTEM.dwg
Date: 04/29/2024
Scale: AS SHOWN
Drawn by: MJJ/JRG/AGG
Checked: DTM
Revisions:
06/18/2024
ADDENDUM NO. 3.

Revisions:
Revisions:

Revisions:

PLAN VIEW - REQUIRED UV
DISINFECTION SYSTEM

C-701
Drawing Number



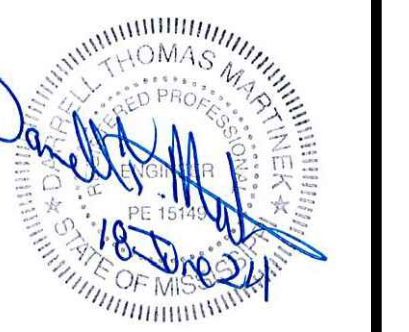
1. ENCLOSED METAL BUILDING SHALL BE PRE-ENGINEERED, METAL FRAMED STRUCTURE. PLANS AND SPECIFICATIONS BEARING PROFESSIONAL ENGINEER'S SEAL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. COLOR OF METAL BUILDING EXTERIOR SHEETS SHALL BE SELECTED BY THE OWNER.
2. ROLL UP STEEL DOORS SHALL BE RAYNOR DURACOIL MODEL FF DOORS WITH MANUAL OPENERS OR APPROVED EQUAL. COLOR OF DOORS SHALL BE SELECTED BY THE OWNER.
3. BRIDGE CRANE SHALL HAVE A 1/2 TON CAPACITY AND BE ELECTRICALLY OPERATED IN LIFTING DIRECTION WITH A LIFT SPEED OF 15 FEET PER MINUTE. THE AVAILABLE LIFT SHALL BE 20 FEET AND FEATURE AN UPPER LIMIT SWITCH. THE TROLLEY TYPE SHALL BE PUSH/PULL WITH RUBBER BUMPERS AND SAFETY LUGS. CRANE POWER SUPPLY SHALL BE 120 VOLT, SINGLE PHASE, 60 HERTZ. CROSS CONDUCTORS SHALL BE ROUND FESTOINED CABLE. BRIDGE CRANE AND SUPPORT SYSTEM SHALL BE CONNECTED TO METAL BUILDING STRUCTURAL MEMBERS. DESIGN OF BRIDGE CRANE AND SUPPORT SYSTEM BEARING PROFESSIONAL ENGINEER'S SEAL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
4. FOOTINGS AND REINFORCEMENT SHOWN FOR INFORMATION ONLY, PLANS AND SPECIFICATIONS BEARING PROFESSIONAL ENGINEER'S STAMP TO BE SUBMITTED TO ENGINEER FOR APPROVAL BASED UPON AN ALLOWABLE SOIL BEARING PRESSURE OF 1,000 POUNDS PER SQUARE FEET.
5. SPLIT AIR CONDITIONING UNITS SHALL BE THREE (3) TON UNIT AS MANUFACTURED BY MITSUBISHI OR APPROVED EQUAL.

NOTES:

1. CONTRACTOR SHALL DESIGN AND PROVIDE OVERHEAD FALL PROTECTION THAT MEETS OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS
2. CONTRACTOR SHALL PROVIDE TWO (2) OF THE FOLLOWING FALL PROTECTION DEVICES:
 - A. STAINLESS STEEL ANTI-FALL STANCHION;
 - B. STAINLESS STEEL SELF RETRACTING LIFE LINE;
 - C. SAFETY RETRIEVAL STATIC LINE; AND
 - D. BACK D-RING HARNESS

NOTE:
BUILDING FOUNDATION
NOT SHOWN FOR CLARITY.

B SECTION - UV DISINFECTION SYSTEM
C-702 SCALE: 1"=2'



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Burle Proj. No.:
08194-1-0122

File Name:
C-701 DISINFECTION SYSTEM.dwg

Date: 04/29/2024

Scale: AS SHOWN

Drawn by: MJJ/JRG/AGG

Checked: DTM

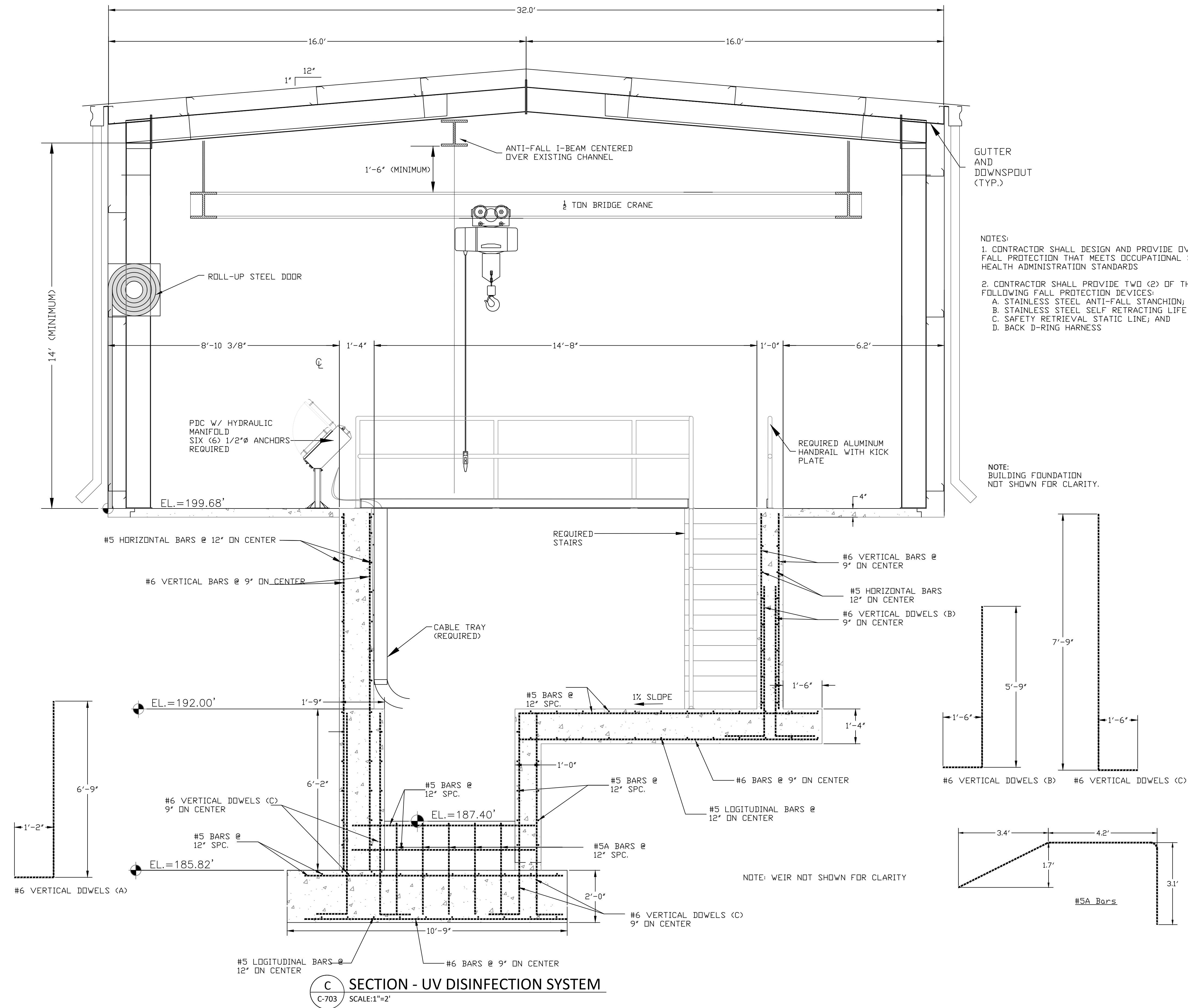
Revisions:
06/18/2024
ADDENDUM NO. 3.

Revisions:

Revisions:

SECTION - UV DISINFECTION
SYSTEM

C-702
Drawing Number



GUTTER
AND
DOWNSPOUT
(TYP.)

- NOTES:
1. CONTRACTOR SHALL DESIGN AND PROVIDE OVERHEAD FALL PROTECTION THAT MEETS OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS
 2. CONTRACTOR SHALL PROVIDE TWO (2) OF THE FOLLOWING FALL PROTECTION DEVICES:
A. STAINLESS STEEL ANTI-FALL STANCHION;
B. STAINLESS STEEL SELF RETRACTING LIFE LINE;
C. SAFETY RETRIEVAL STATIC LINE; AND
D. BACK D-RING HARNESS

NOTE:
BUILDING FOUNDATION
NOT SHOWN FOR CLARITY.



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Burle Proj. No.:
08194-1-0122

File Name:
C-701 DISINFECTION SYSTEM.dwg

Date: 04/29/2024

Scale: AS SHOWN

Drawn by: MJJ/JRG/AGG

Checked: DTM

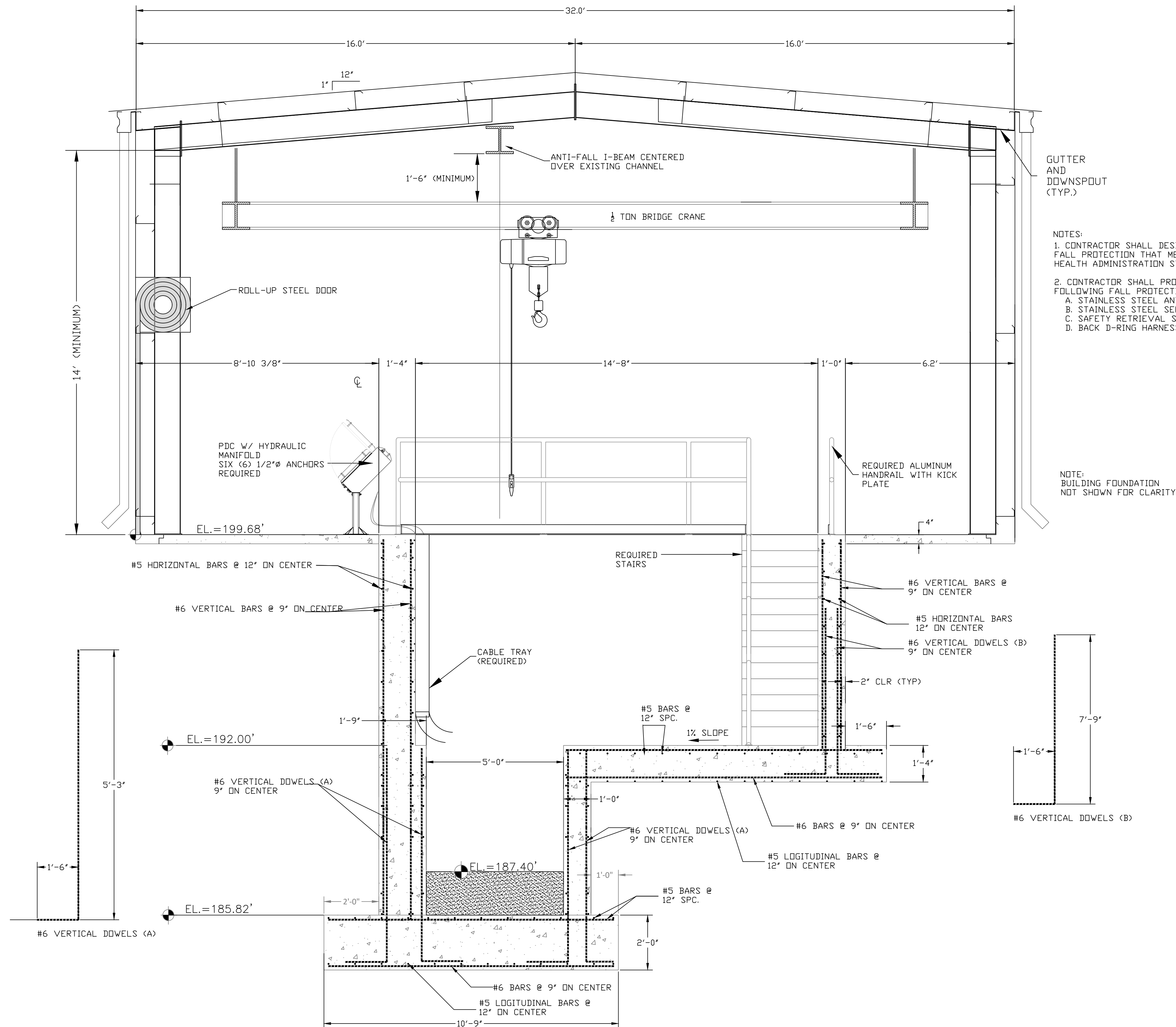
Revisions:
06/18/2024
ADDENDUM NO. 3.

Revisions:

Revisions:

SECTION - UV DISINFECTION
SYSTEM

C-703
Drawing Number

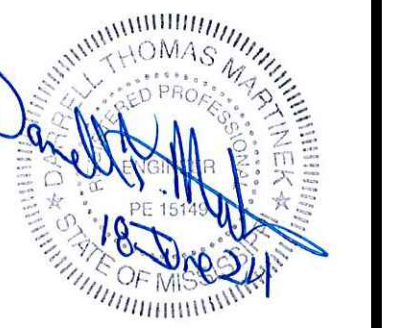


GUTTER
AND
DOWNSPOUT
(TYP.)

- NOTES:
1. CONTRACTOR SHALL DESIGN AND PROVIDE OVERHEAD FALL PROTECTION THAT MEETS OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS
 2. CONTRACTOR SHALL PROVIDE TWO (2) OF THE FOLLOWING FALL PROTECTION DEVICES:
 - A. STAINLESS STEEL ANTI-FALL STANCHION;
 - B. STAINLESS STEEL SELF RETRACTING LIFE LINE;
 - C. SAFETY RETRIEVAL STATIC LINE; AND
 - D. BACK D-RING HARNESS

NOTE:
BUILDING FOUNDATION
NOT SHOWN FOR CLARITY.

D SECTION - UV DISINFECTION SYSTEM
C-704 SCALE:1"=2'



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CENT. TREATMENT
SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION
LEAKESVILLE, MISSISSIPPI

Burle Proj. No.:
08194-1-0122

File Name:
C-701 DISINFECTION SYSTEM.dwg

Date: 04/29/2024

Scale: AS SHOWN

Drawn by: MJJ/JRG/AGG

Checked: DTM

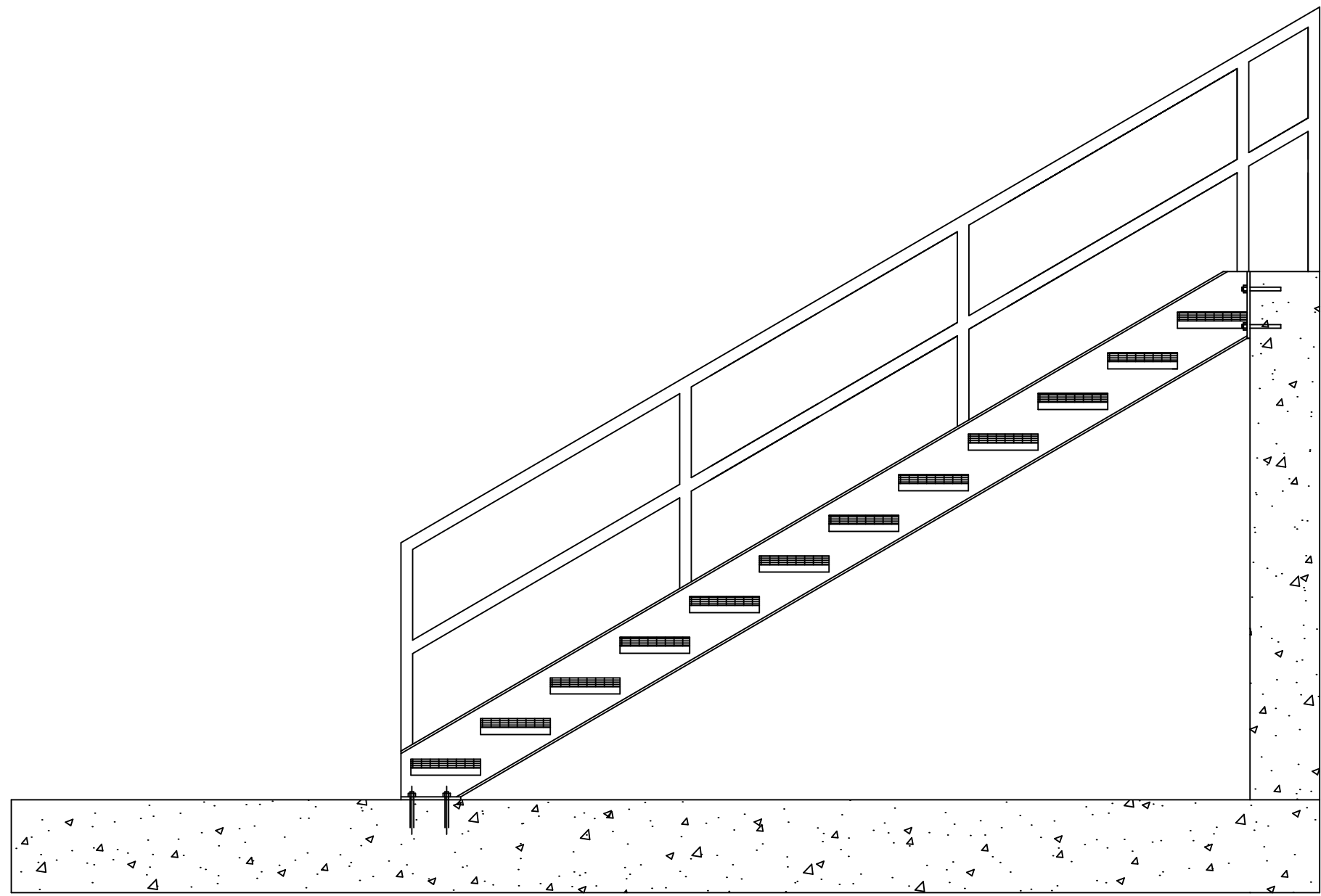
Revisions:
06/18/2024
ADDENDUM NO. 3.

Revisions:

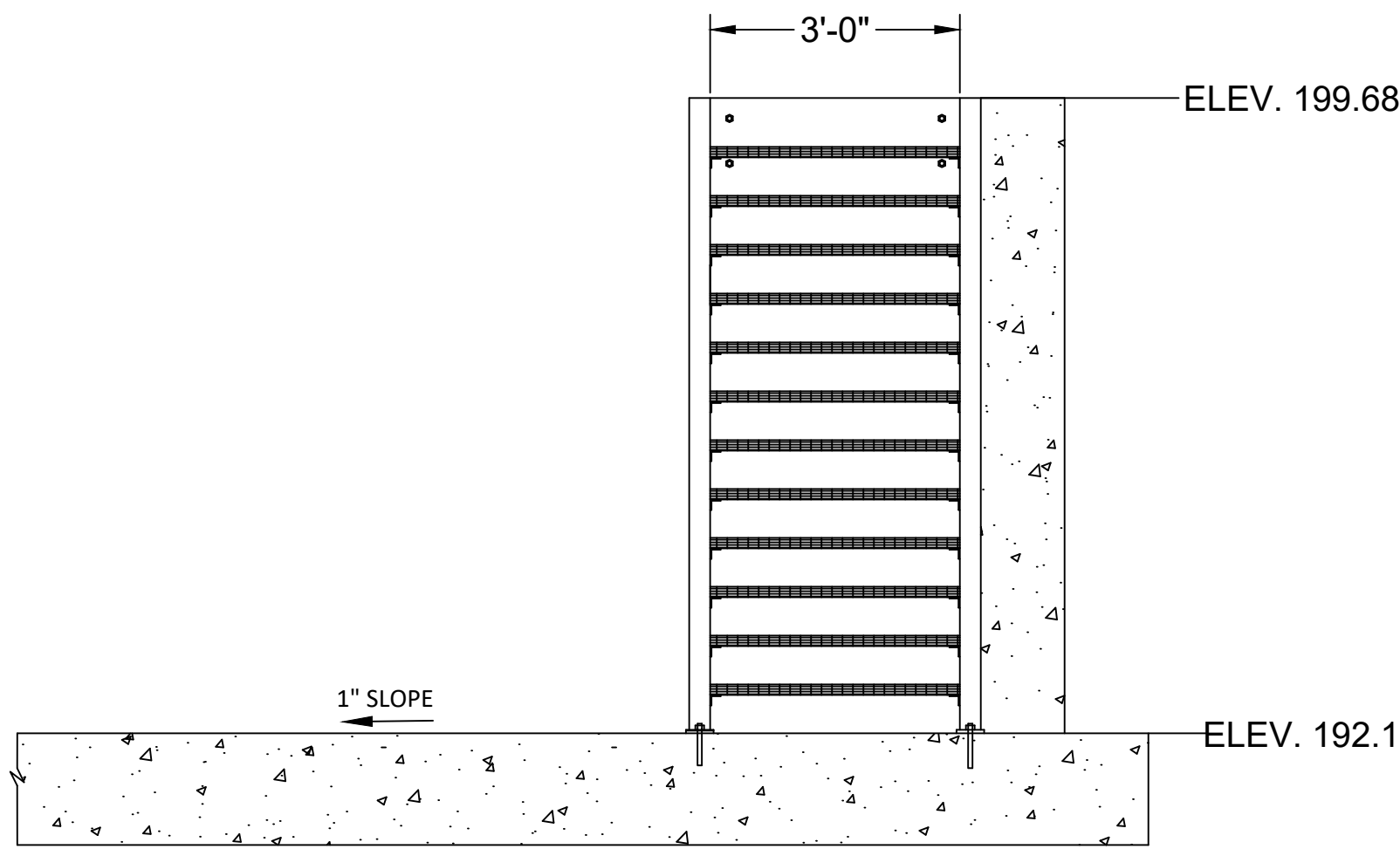
Revisions:

SECTION - UV DISINFECTION
SYSTEM

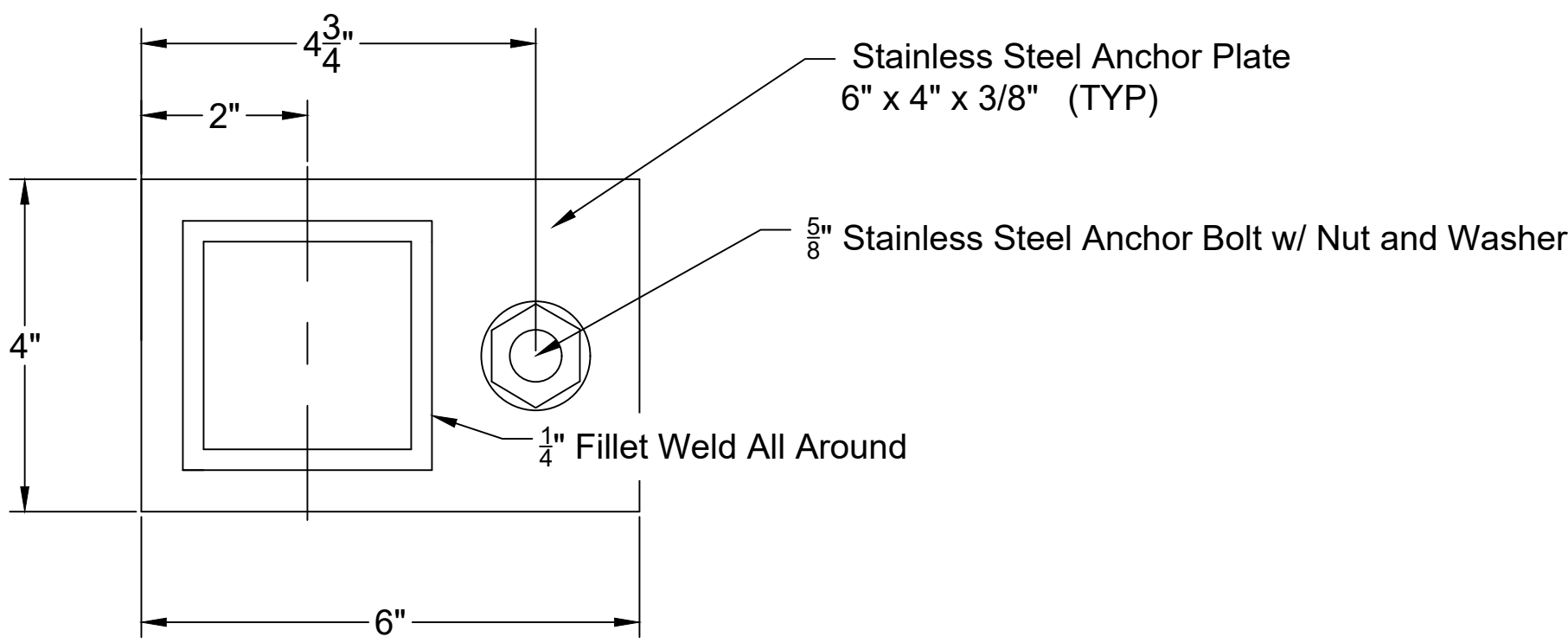
C-704
Drawing Number



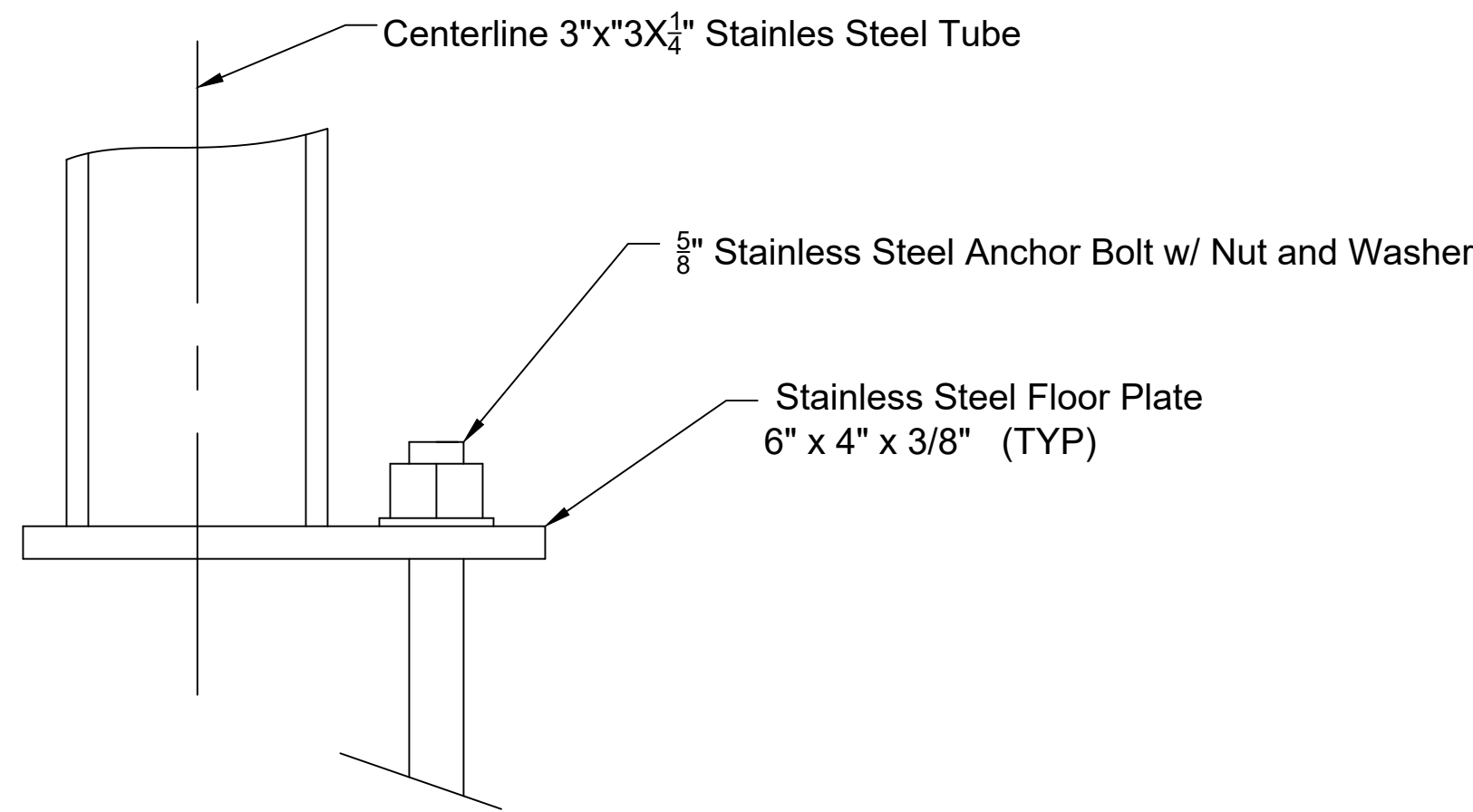
Stair Side Elevation



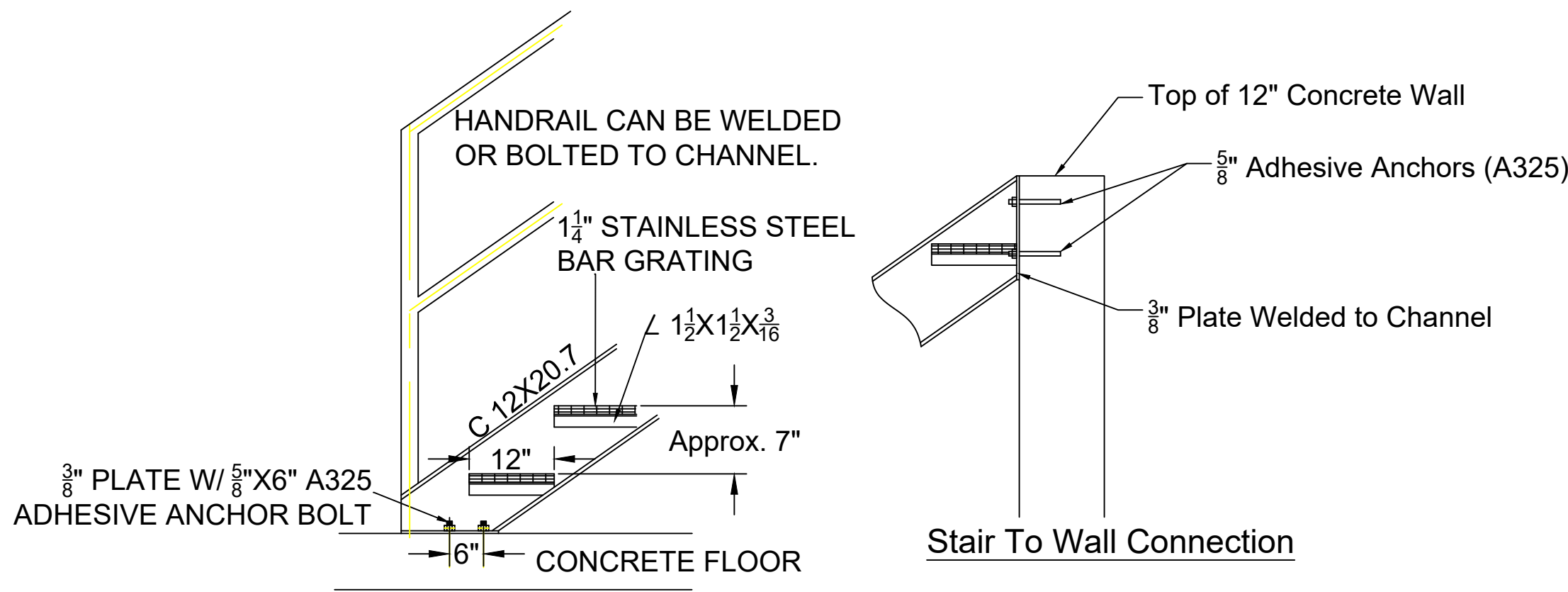
Stair End Elevation



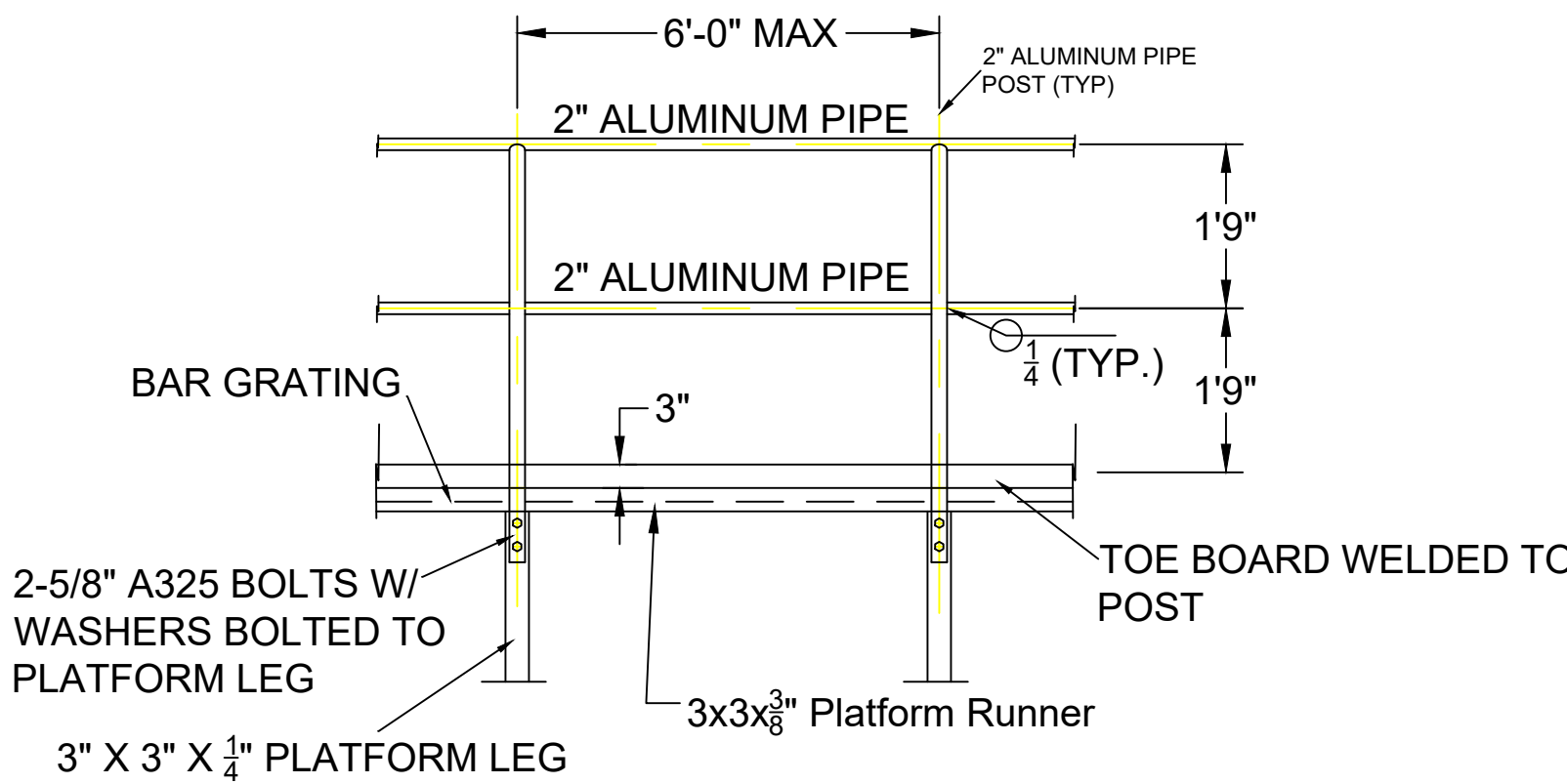
Anchor Plate Plan



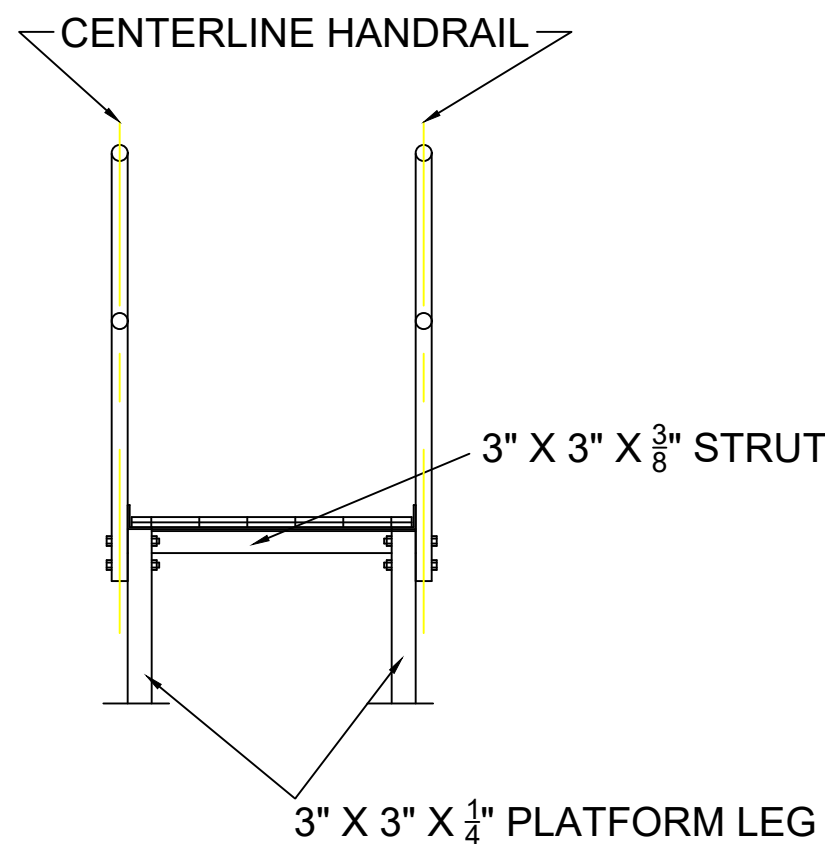
Anchor Plate Detail



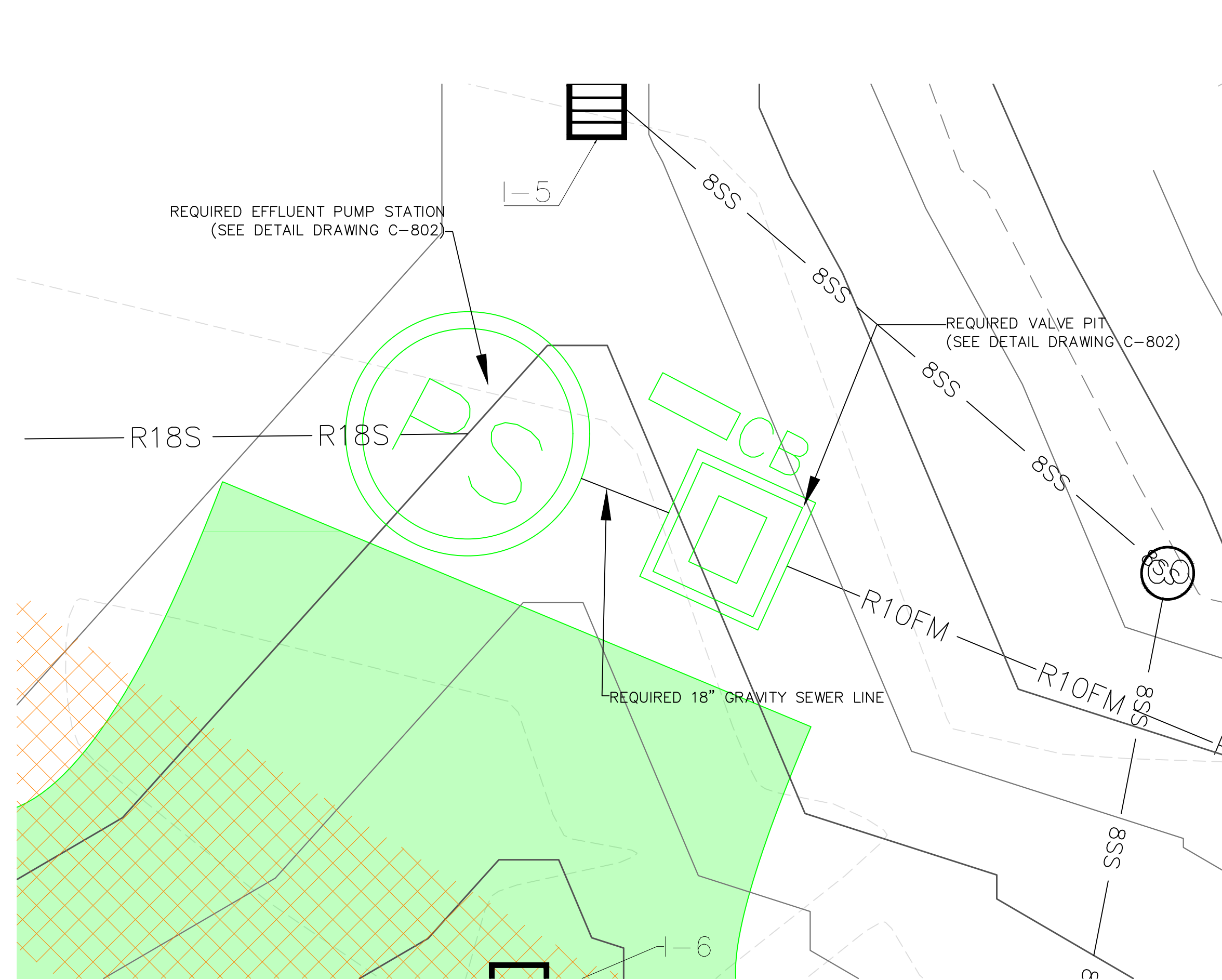
Stair Detail



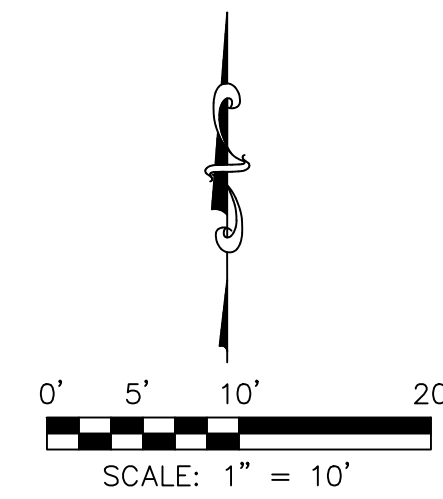
ALUMINUM HANDRAIL ELEVATION



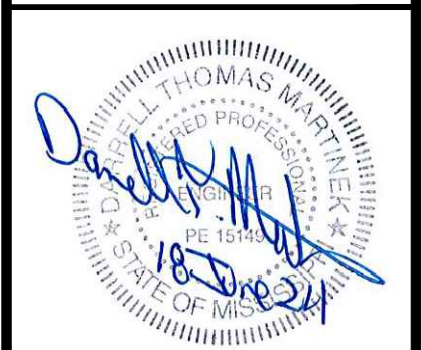
ALUMINUM HANDRAIL CROSS SECTION



PLAN VIEW - REQUIRED EFFLUENT PUMP STATION
SCALE: 1"= 5'



LEGEND:			
---	200	---	EXISTING MAJOR CONTOURS (FEET)
---	201	---	EXISTING MINOR CONTOURS (FEET)
---	200	---	REQUIRED MAJOR CONTOURS (FEET)
---	201	---	REQUIRED MINOR CONTOURS (FEET)
			REQUIRED CONCRETE (SEE DETAIL DRAWING C-904)
			REQUIRED EFFLUENT PUMP STATION (SEE DETAIL DRAWING C-802)
			REQUIRED CONTROL BOX (SEE DETAIL DRAWING E-801)
---	R8FM	---	REQUIRED 8" FORCE MAIN
---	R18S	---	REQUIRED 18" GRAVITY SEWER LINE



GS#323-024 ARPA INFR. - WASTE CENT.
TREATMENT
SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION
LEAKESVILLE, MS.

Burle Proj. No.:
08194-1-0122

File Name:
C-801 PLAN VIEW - EFFLUENT
PUMP STATION.DWG

Date: 04/29/2024

Scale: SHOWN

Drawn by: JRG

Checked: DTM

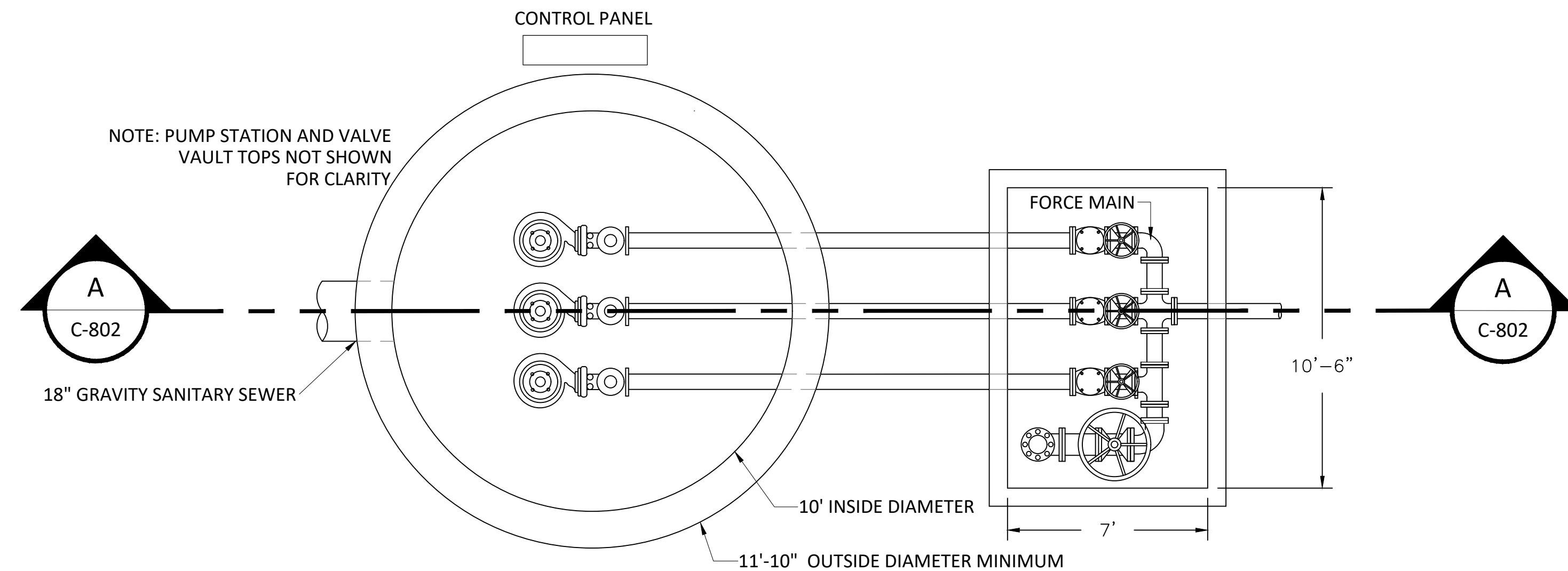
Revisions:
06/18/2024 ADDENDUM 3

Revisions:

Revisions:

PLAN VIEW - REQUIRED
EFFLUENT PUMP
STATION

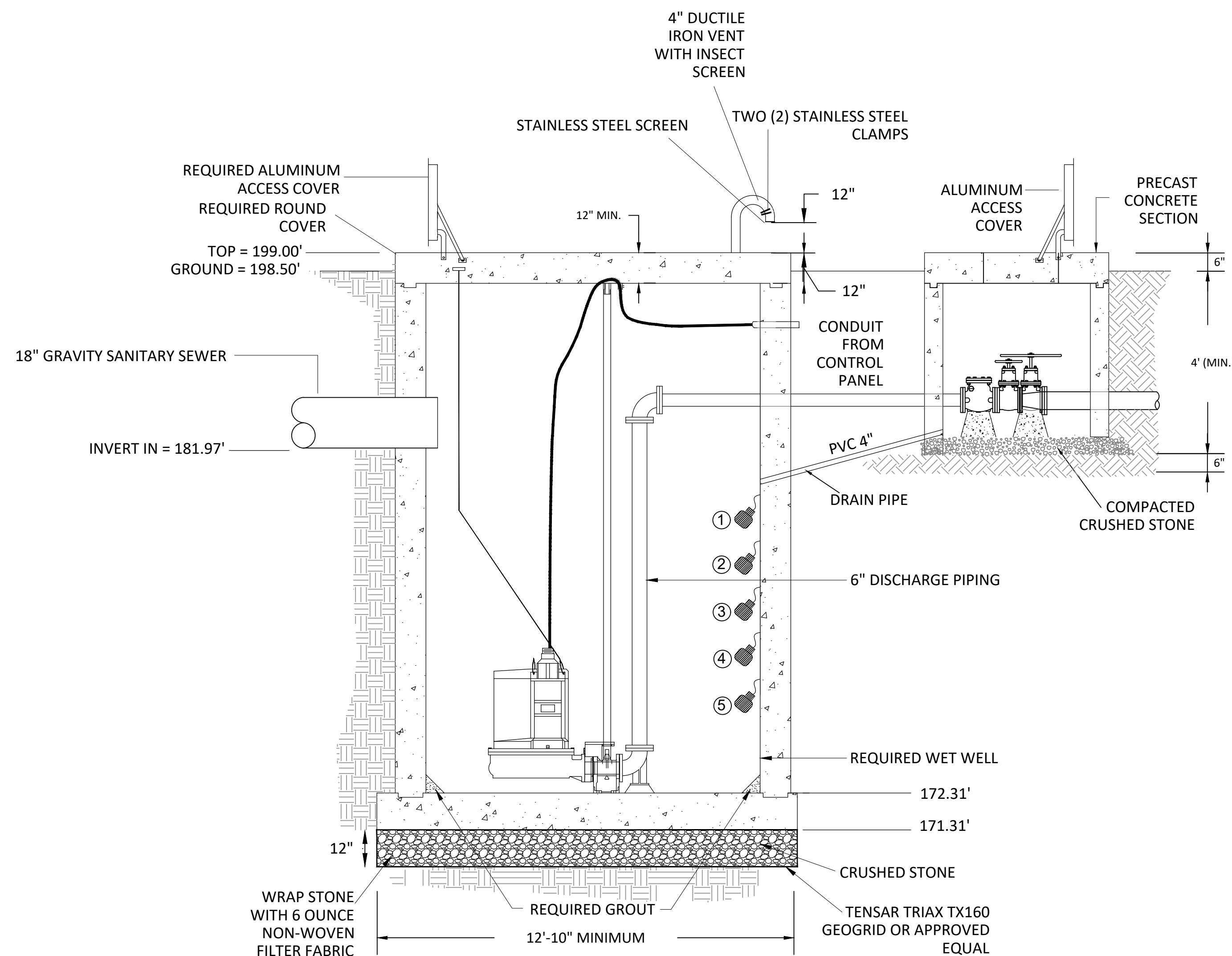
C-801
Drawing Number



PLAN VIEW - REQUIRED EFFLUENT PUMP STATION

NOT TO SCALE

- NOTES:
1. STANDARD PRECAST CONCRETE SECTIONS SHALL COMPLY WITH ASTM C478.
 2. ALL PRECAST CONCRETE SECTIONS SHALL BE COATED WITH A MINIMUM OF 20 MIL THICKNESS COAL TAR EPOXY INSIDE AND OUTSIDE.
 3. ALL JOINTS SHALL BE COATED INSIDE AND OUTSIDE. JOINT MATERIAL SHALL BE PREFORMED FLEXIBLE MASTIC AND SHALL COMPLY WITH ASTM C990.
 4. ALL PIPE ENTERING WETWELLS SHALL BE FITTED WITH WATERSTOP, SEE DETAIL DRAWING C-901.

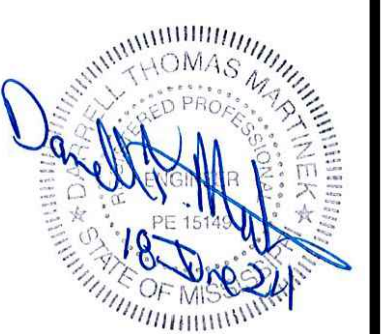


PUMP STATION CONDITIONS				
QUANTITY	H.P.	G.P.M.	T.D.H.	VOLTAGE
3	60	1,100	107	460(3 PH.)

FLOAT SETTING TABLE	
ALARM NAME	ELEVATION
① HIGH LEVEL ALARM	181.47'
② LAG PUMP 2 ON	180.97'
③ LAG PUMP 1 ON	180.47'
④ LEAD PUMP ON	179.97'
⑤ PUMP OFF	176.23'

SECTION-REQUIRED EFFLUENT PUMP STATION

NOT TO SCALE



GS#323-024 ARPA INFR. - WASTE
CENT. TREATMENT
SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION
LEAKESVILLE, MISSISSIPPI

BURLE PROJECT NUMBER:

08194-1-0122

FILE NAME:

EFFLUENT PUMP STATION.dwg

DATE: 04/29/2024

SCALE: NOT TO SCALE

DRAWN BY: JRG

CHECKED BY: DTM

REVISIONS:

06/18/2024 ADDENDUM 3

REVISIONS:

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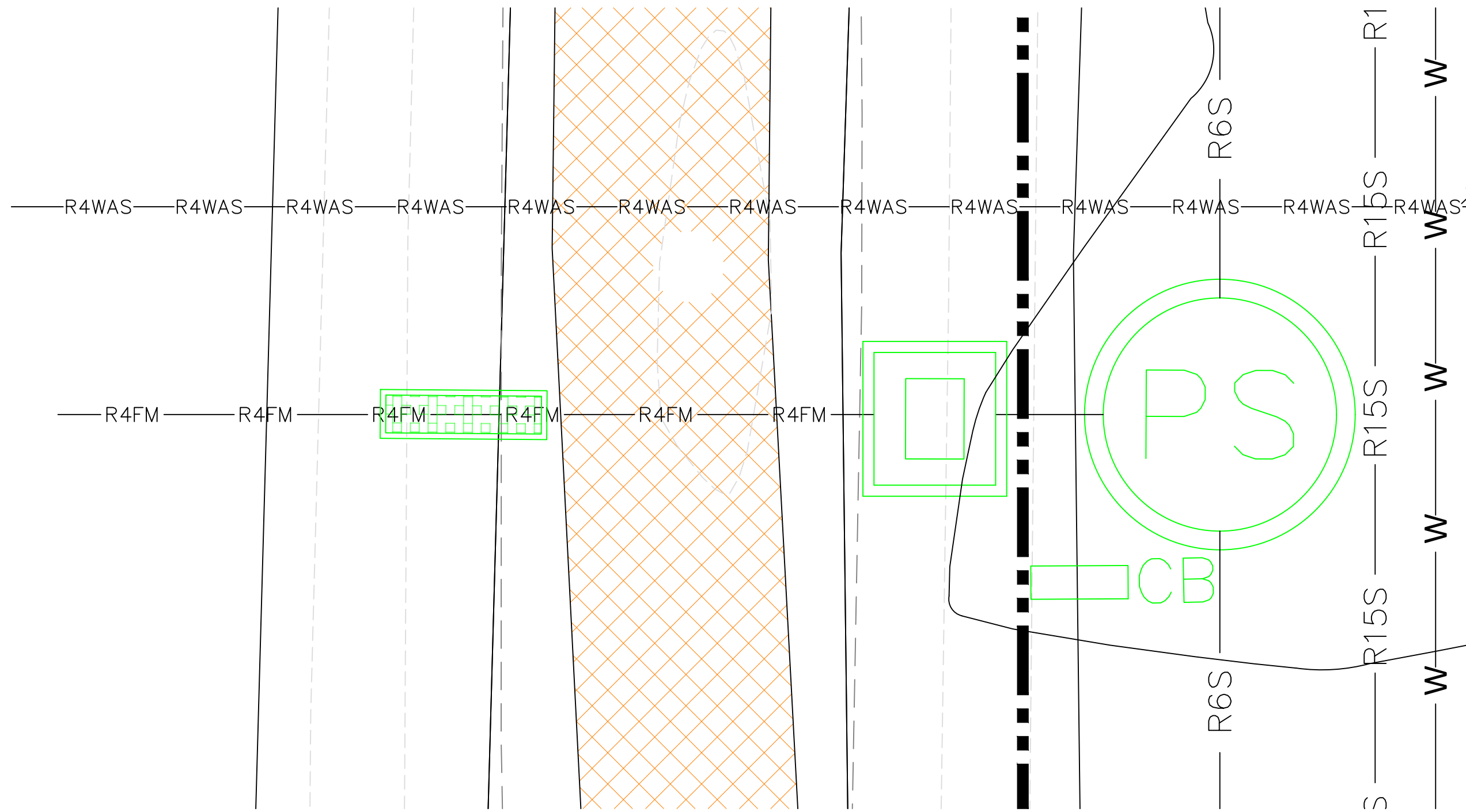
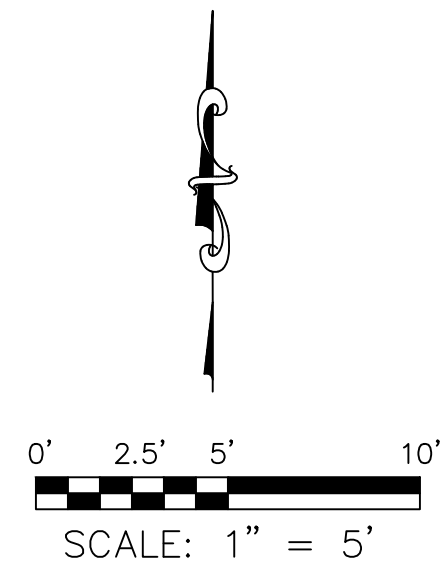
REVISIONS:

REVISIONS:

REVISIONS:

REVISIONS:

REVISIONS:



PLAN VIEW - REQUIRED SCUM PUMP STATION
SCALE: 1"= 5'

- LEGEND:
- 200--- EXISTING MAJOR CONTOURS (FEET)
 - 201--- EXISTING MINOR CONTOURS (FEET)
 - EXISTING TOP BANK OF DITCH
 - EXISTING TOE EDGE OF DITCH
 - EXISTING CENTERLINE OF DITCH
 - REQUIRED 8" FORCE MAIN
(SEE DETAIL DRAWING C-902)
 - R12S --- REQUIRED RETURN ACTIVATED SLUDGE GRAVITY LINE
(SEE DETAIL DRAWING C-902)
 - R15S --- REQUIRED 15" GRAVITY SEWER LINE
(SEE DETAIL DRAWING C-902)
 - W --- REQUIRED WATER LINE
(SEE DETAIL DRAWING C-903)
 - REQUIRED 6" AIR LINE
(SEE DETAIL DRAWING C-902)
 - REQUIRED 18" GRAVITY SEWER LINE
(SEE DETAIL DRAWING C-902)
 - R4WAS --- REQUIRED 4" WAS LINE
(SEE DETAIL DRAWING C-902)
 - FLOW DIRECTION ---
 - REQUIRED SCUM PUMP STATION
(SEE DETAIL DRAWING C-804)
 - REQUIRED HYDRANT
 - EXISTING GRAVELED AREA
 - REQUIRED MANHOLE
 - REQUIRED CONTROL BOX
(SEE ELECTRICAL DRAWINGS)



GSH323-024 ARPA INFR. - WASTE
CENT. TREATMENT
SOUTH MISSISSIPPI CORRECTIONAL INSTITUTION
LEAKESVILLE, MISSISSIPPI

Burle Proj. No.:
08194-1-0122

File Name:
C-803 - PLAN VIEW - REQUIRED
SCUM PUMP STATION.DWG

Date: 04/29/2024

Scale: 1"=30'

Drawn by: JRG

Checked: DTM

Revisions:

Revisions:

Revisions:

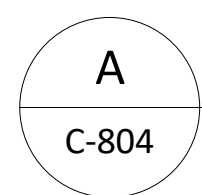
PLAN VIEW -
REQUIRED SCUM PUMP
STATION

C-803
Drawing Number



NOT TO SCALE

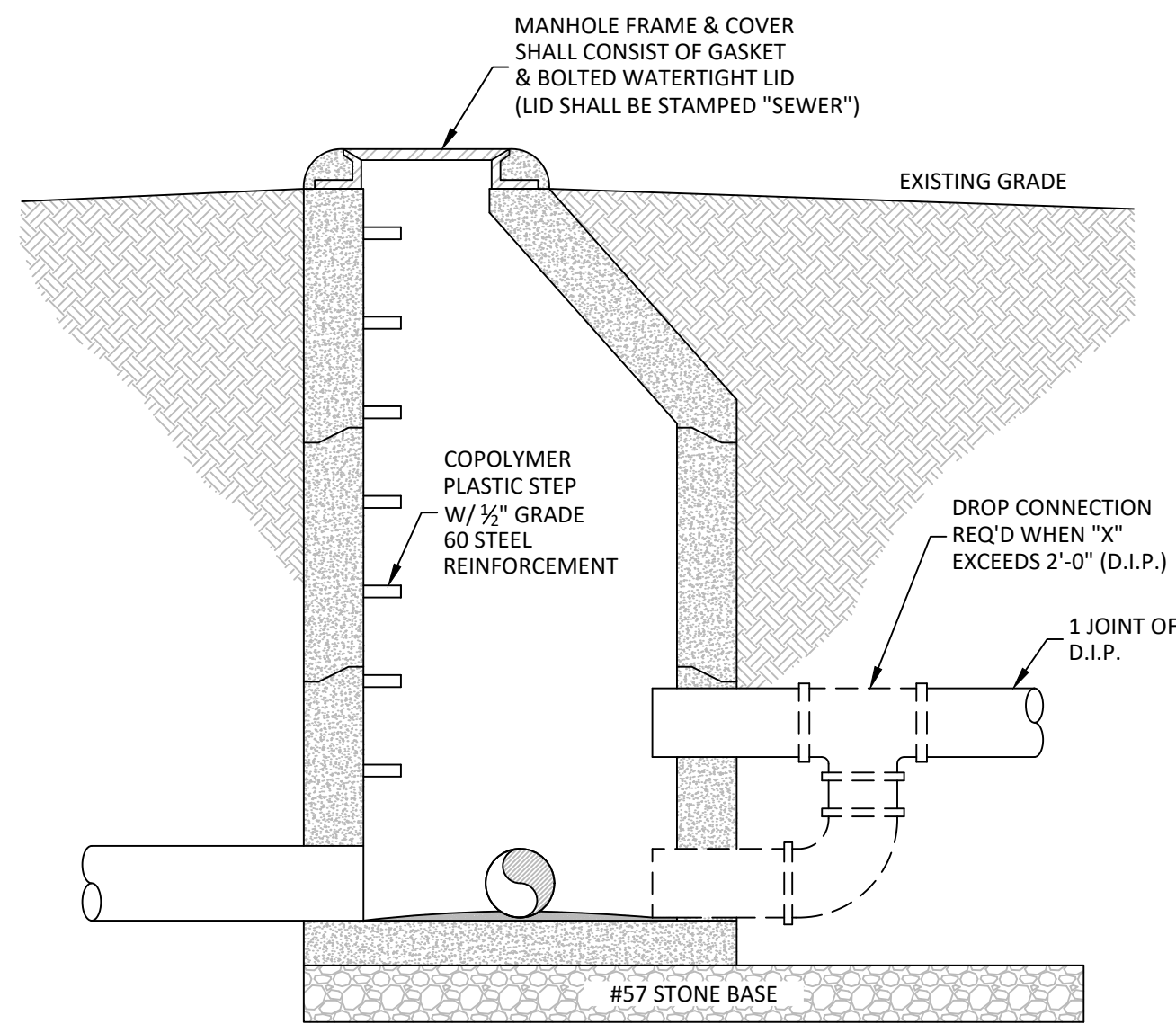
- NOTES:



NOT TO SCALE

PUMP STATION CONDITIONS				
QUANTITY	H.P.	G.P.M.	T.D.H.	VOLTAGE
2	3	250	11	460(3 PH.)

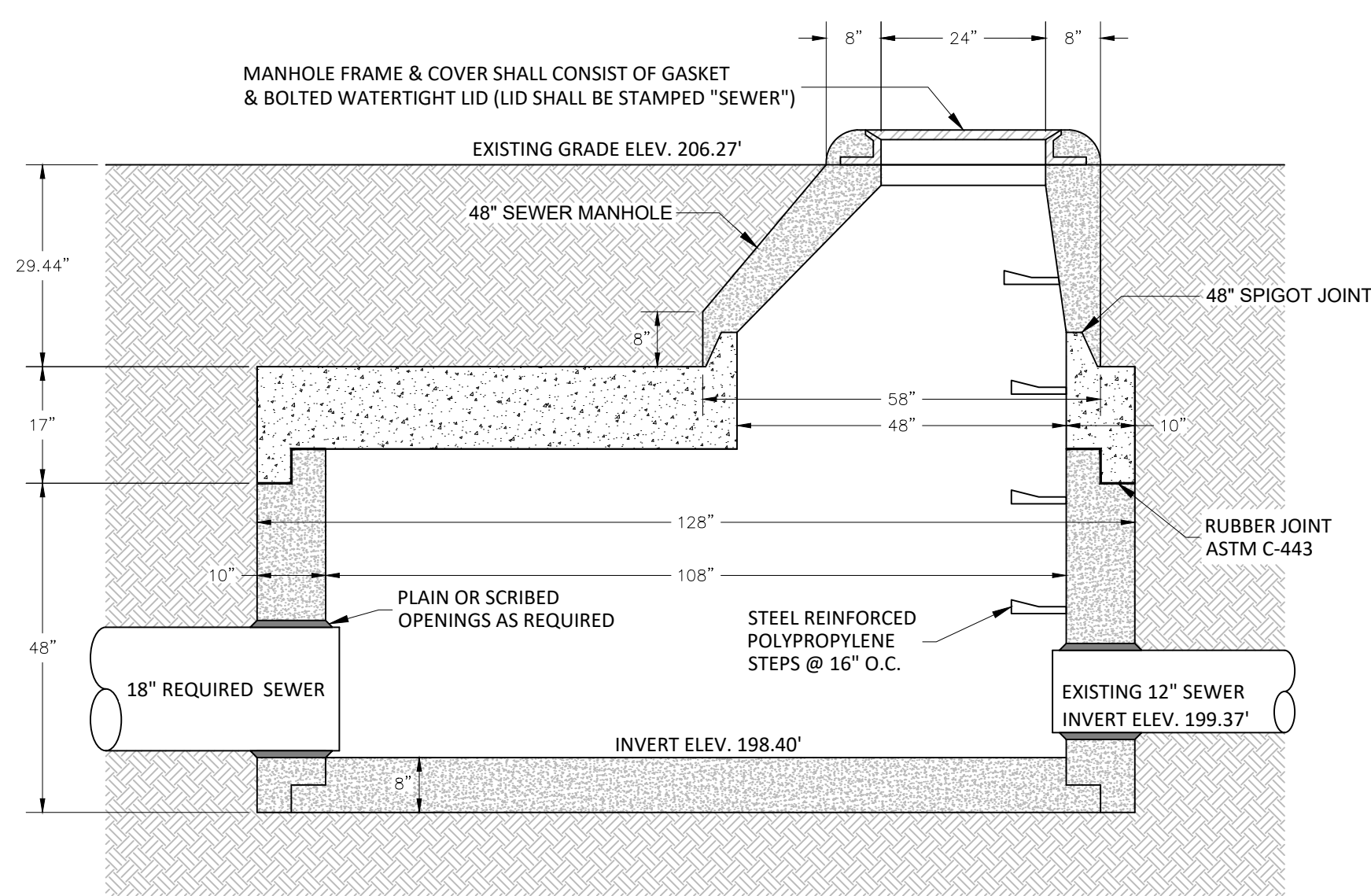
FLOAT SETTING TABLE		
	ALARM NAME	ELEVATION
①	HIGH LEVEL ALARM	194.00'
②	LAG PUMP 1 ON	193.00'
③	LEAD PUMP ON	192.00'
④	PUMP OFF	189.75'



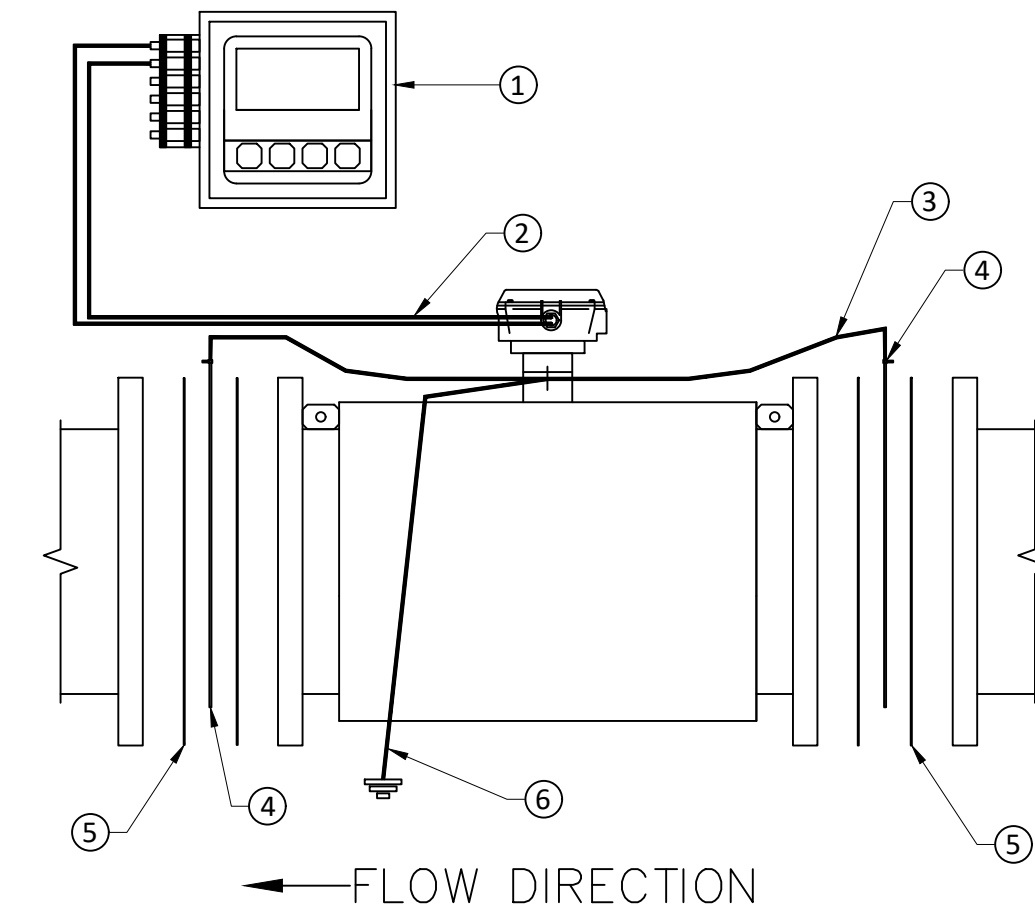
DETAIL - STANDARD MANHOLE
NOT TO SCALE

NOTES:

1. STANDARD PRECAST CONCRETE MANHOLE SHALL COMPLY WITH ASTM STANDARD C478
2. ALL PRECAST MANHOLE SECTIONS SHALL BE COATED WITH 20 MIL THICKNESS COAL TAR EPOXY.
3. ALL JOINTS SHALL BE GROUTED INSIDE AND OUTSIDE. JOINT MATERIAL SHALL BE PREFORMED FLEXIBLE MASTIC AND SHALL COMPLY WITH ASTM C990
4. ALL PIPES ENTERING MANHOLES SHALL BE FITTED WITH WATERSTOP SEE DETAIL.
5. THICKNESS OF CONCRETE OF BENCHES SHALL BE A MINIMUM OF SIX (6) INCHES THROUGHOUT THE ENTIRE AREA OF BENCH. BENCHES SHALL BE BUILT/ RECONSTRUCTED SUCH THAT THERE IS A CONSISTENT MINIMUM SURFACE GRADE OF ONE PERCENT (1%) FROM INSIDE OF MANHOLE WALL TO EDGE OF TROUGH PIPING.
6. CONTRACTOR SHALL VERIFY MANHOLE DIAMETERS, DEPTH OF COVER AND NECESSARY COMPONENTS TO COMPLETE PROJECT.

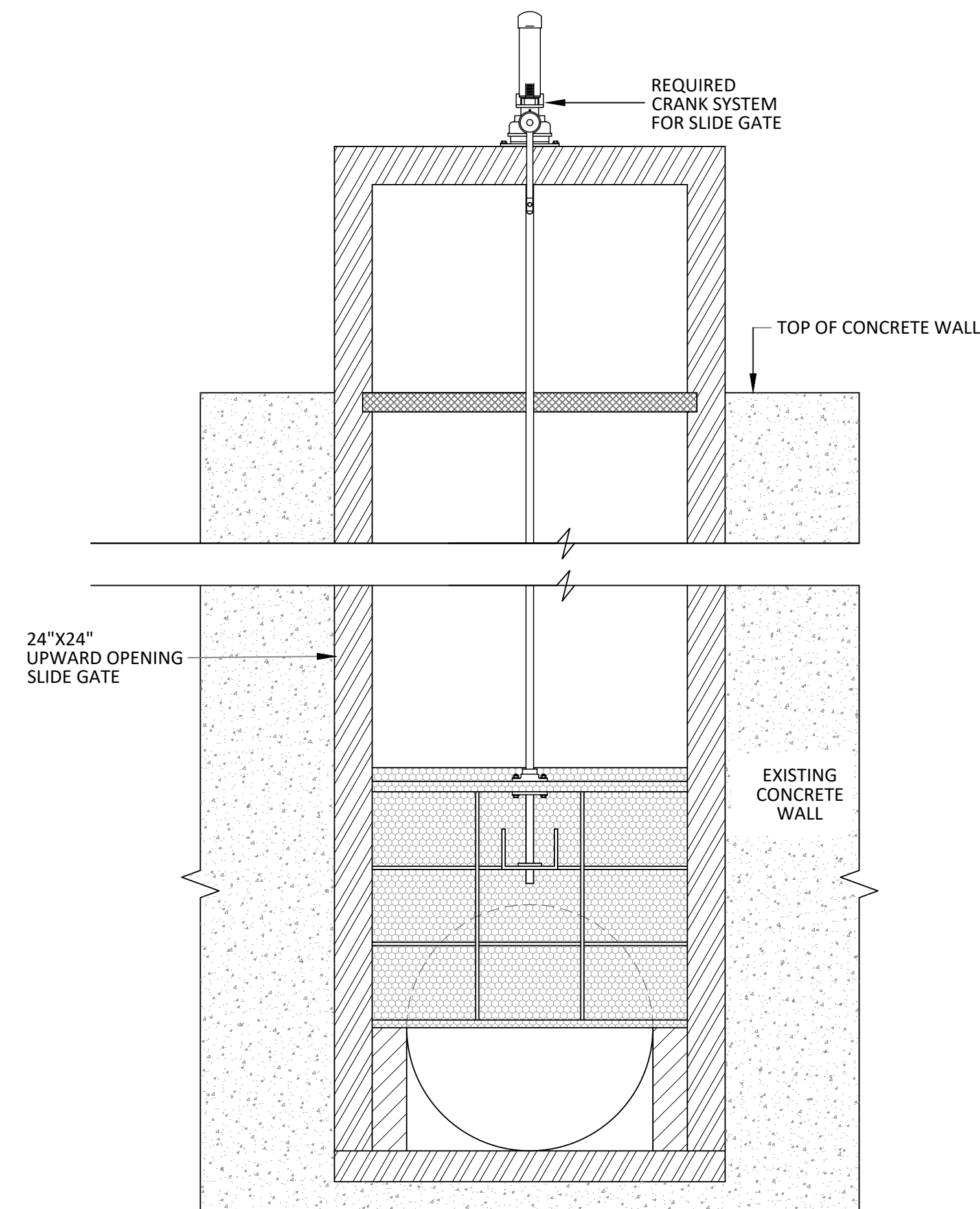


DETAIL - MANHOLE No. 8
NOT TO SCALE



NO.	DESCRIPTION
①	CONVERTER (DUAL 4-20mA OUTPUT)
②	DUAL CABLES - SUBMERSIBLE
③	GROUNDING WIRE ASSEMBLY - 10 AWG
④	GROUNDING RINGS, STAINLESS STEEL
⑤	GASKETS
⑥	EARTH GROUND

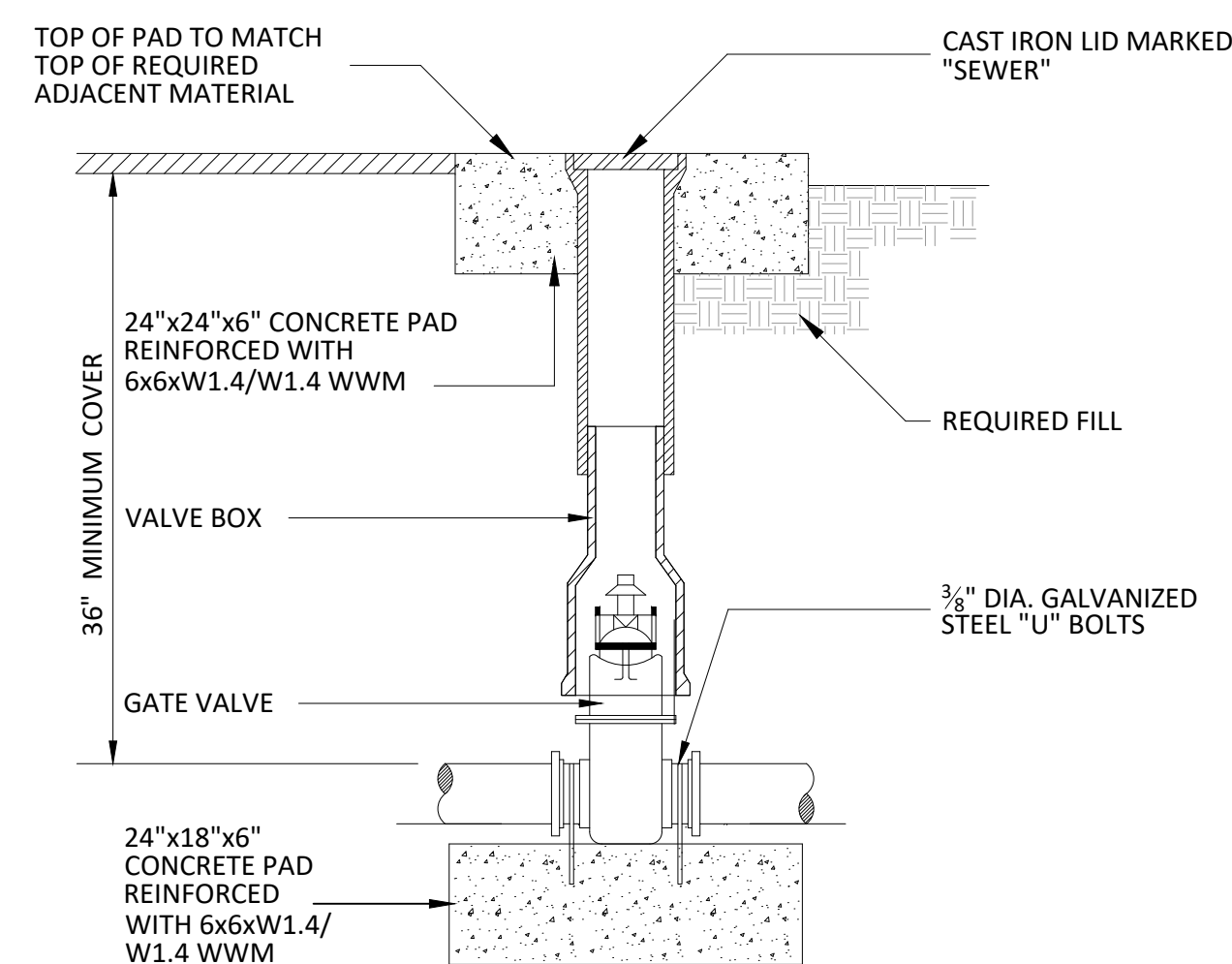
SECTION - FLOW METER
NOT TO SCALE



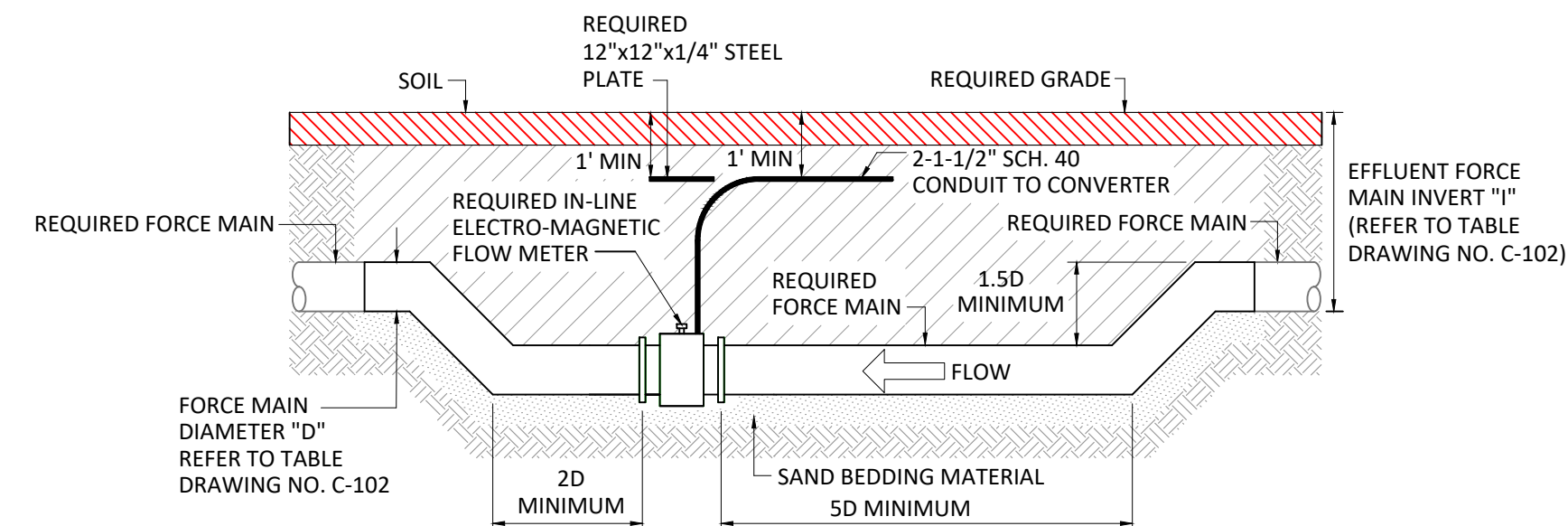
DETAIL - UPWARD OPENING SLIDE GATE
NOT TO SCALE

NOTE:

1. SLIDE GATES SHALL BE 24"x24" FABRICATED SLIDE GATE TYPE 304 STAINLESS STEEL FRAME AND SLIDE.



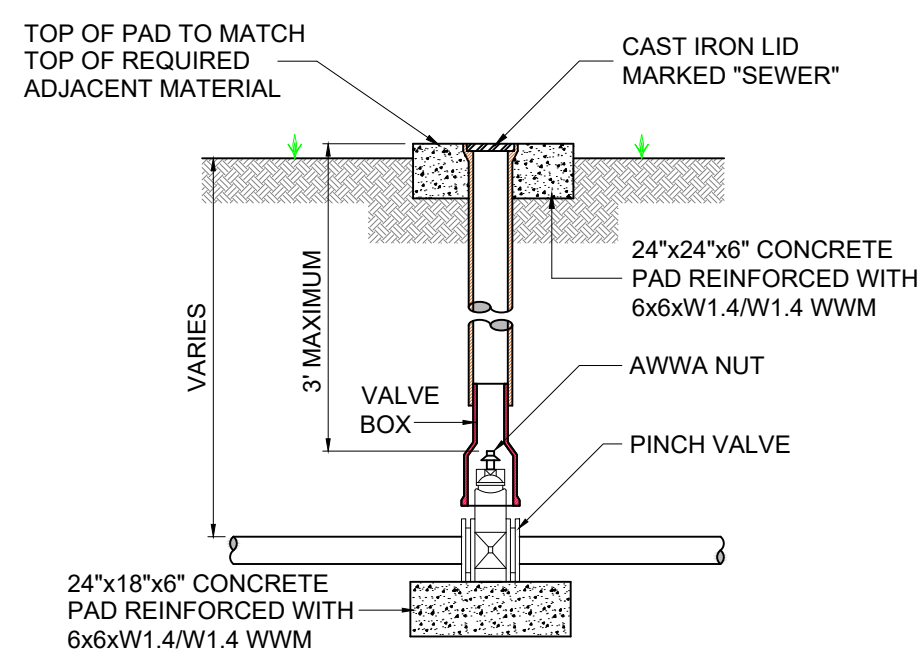
DETAIL - GATE VALVE
NOT TO SCALE



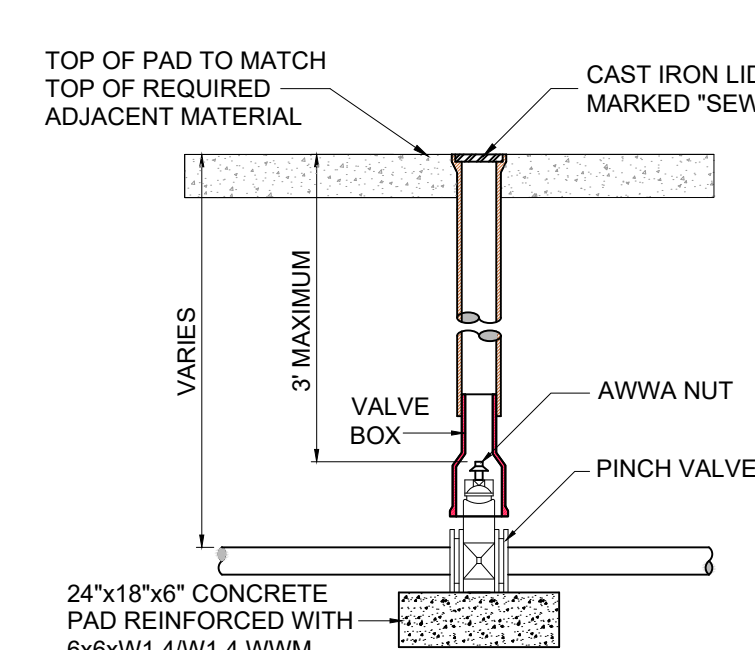
NOTES:

1. METALLIC MARKING TAPE AND THRUST BLOCKS NOT SHOWN FOR CLARITY.
2. ALL FITTINGS SHALL BE FLANGED DUCTILE IRON.
3. GROUNDING RINGS AND GASKETS REQUIRED PER DETAILS. (SEE DETAIL THIS DRAWING)
4. "D" EQUALS NOMINAL PIPE DIAMETER.
5. BEDDING MATERIAL THICKNESS SHALL BE "D/2" PLUS TWO (2) INCHES, AS MEASURED, FROM THE SPRING LINE OF THE PIPE.
6. MECHANICAL COMPACTION EQUIPMENT SHALL NOT BE USED ADJACENT TO OR ABOVE FLOW METER.

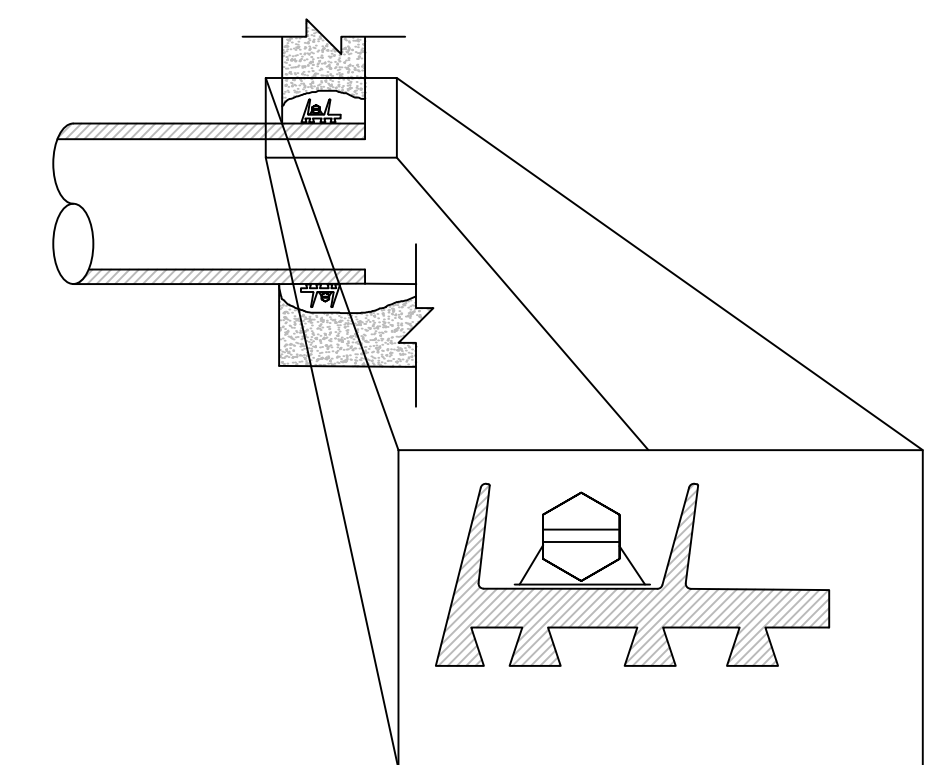
DETAIL - FLOW METER & FORCE MAIN TRAP
NOT TO SCALE



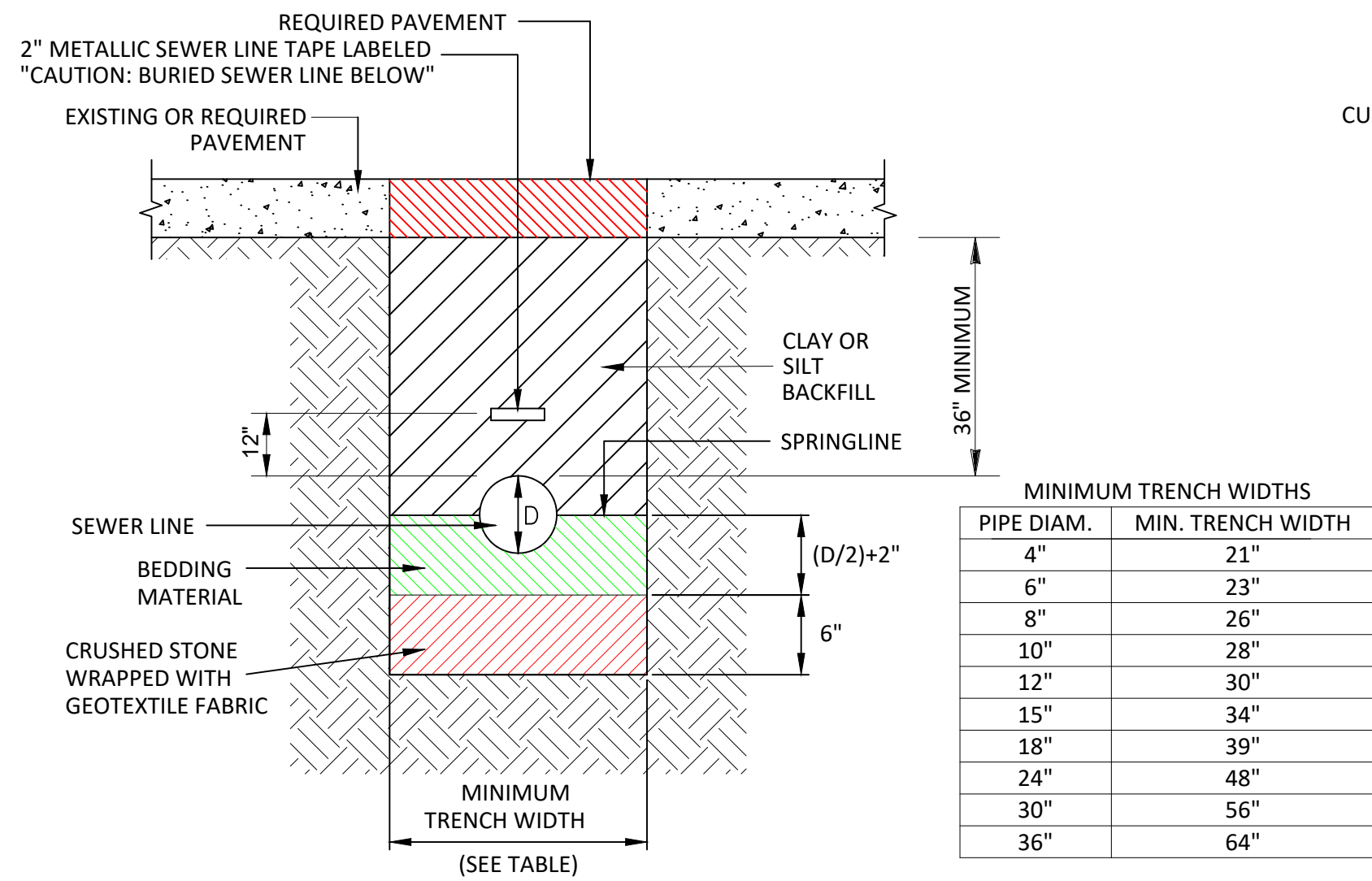
**DETAIL - PINCH VALVE
INSTALLED IN TURF**
NOT TO SCALE



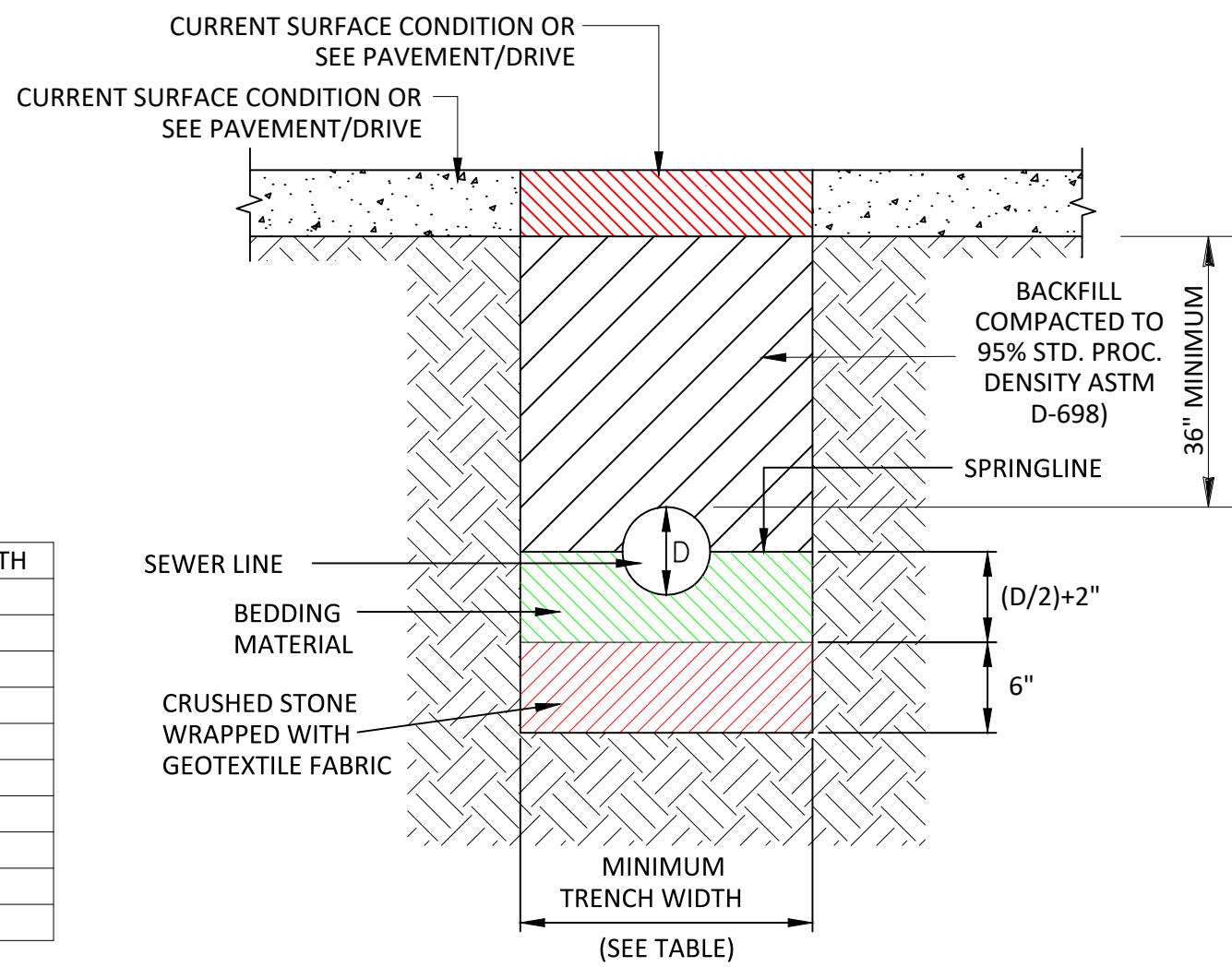
**DETAIL - PINCH VALVE
INSTALLED IN PAVEMENT**
NOT TO SCALE



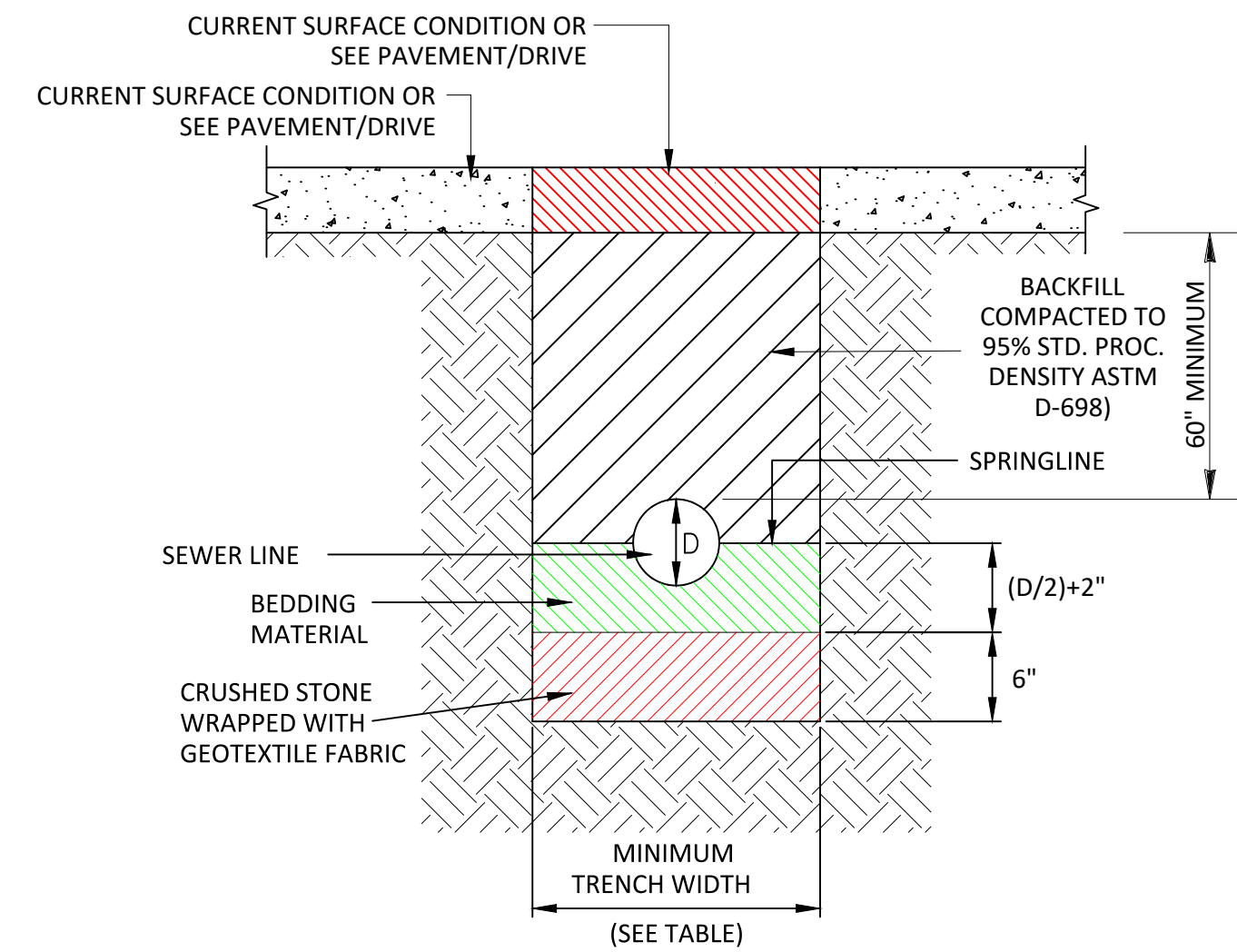
DETAIL - REQUIRED WATER STOP
NOT TO SCALE



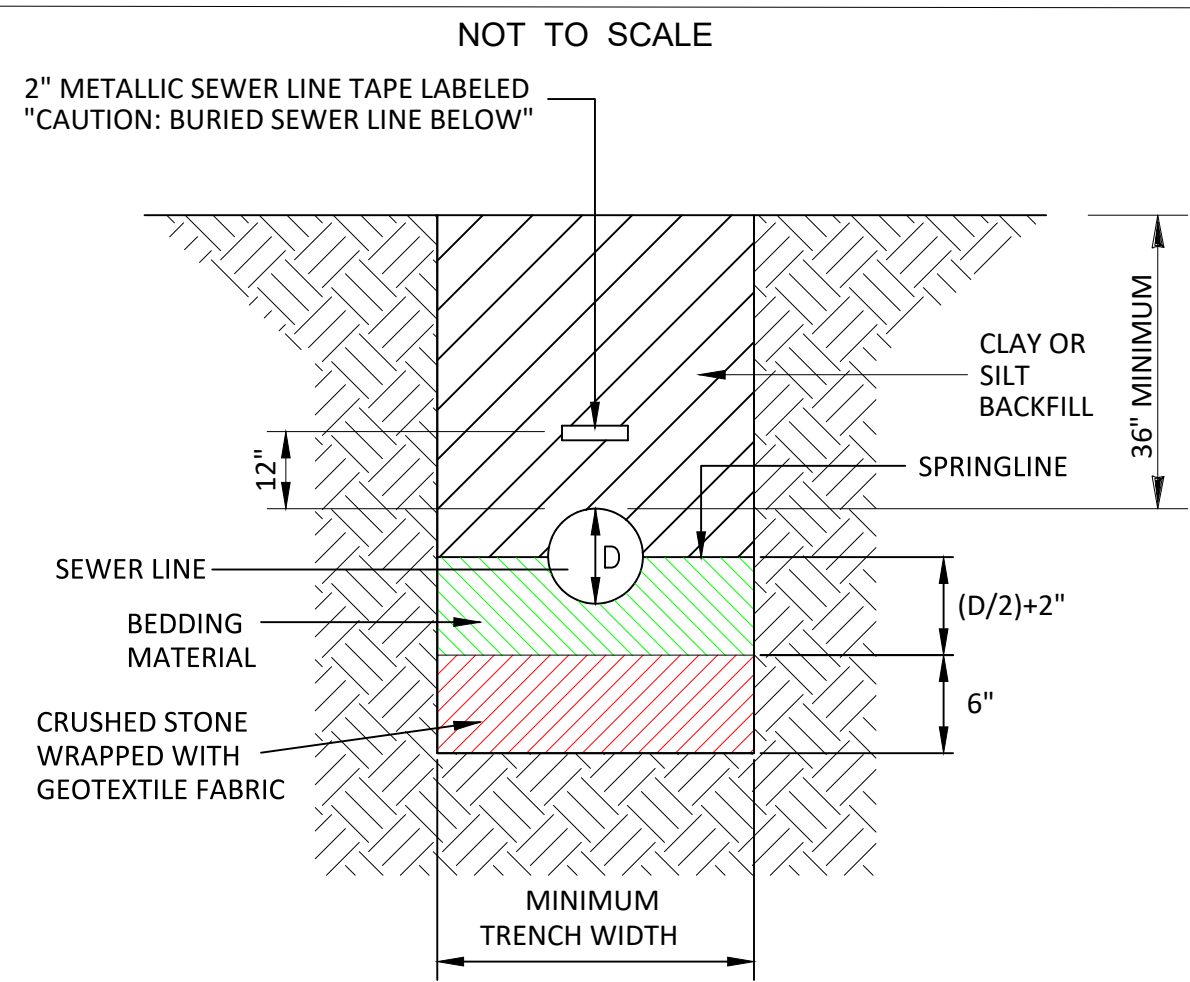
DETAIL - SEWER LINE TRENCH PAVED AREAS



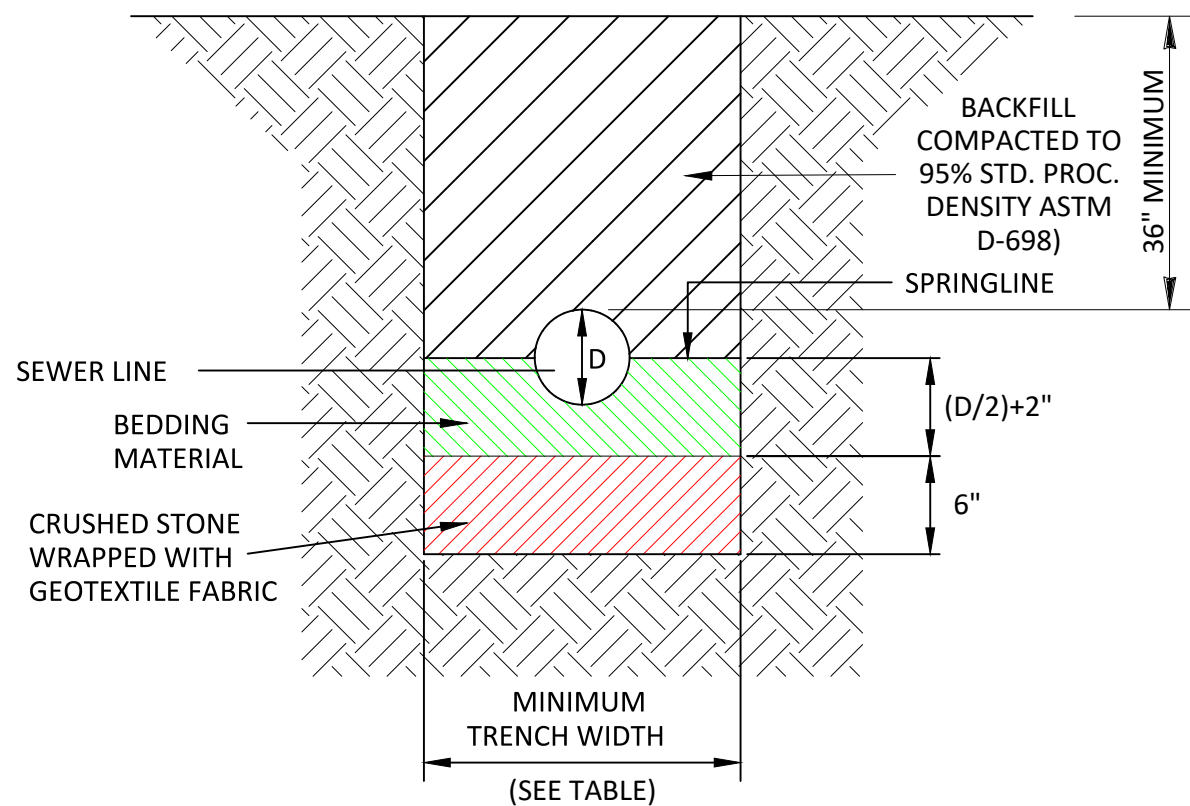
DETAIL - FORCE MAIN OPEN TRENCH PAVED AREAS



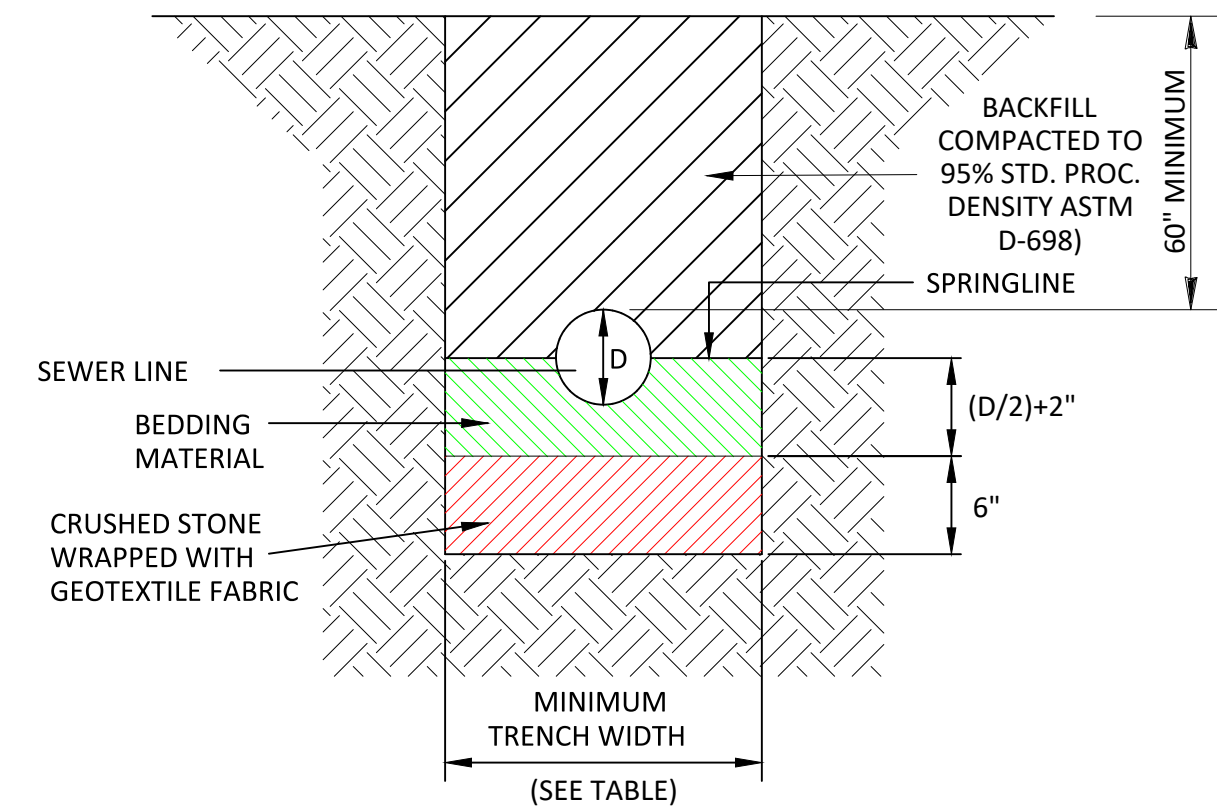
DETAIL - AIR LINE OPEN TRENCH PAVED AREAS



DETAIL - SEWER LINE TRENCH



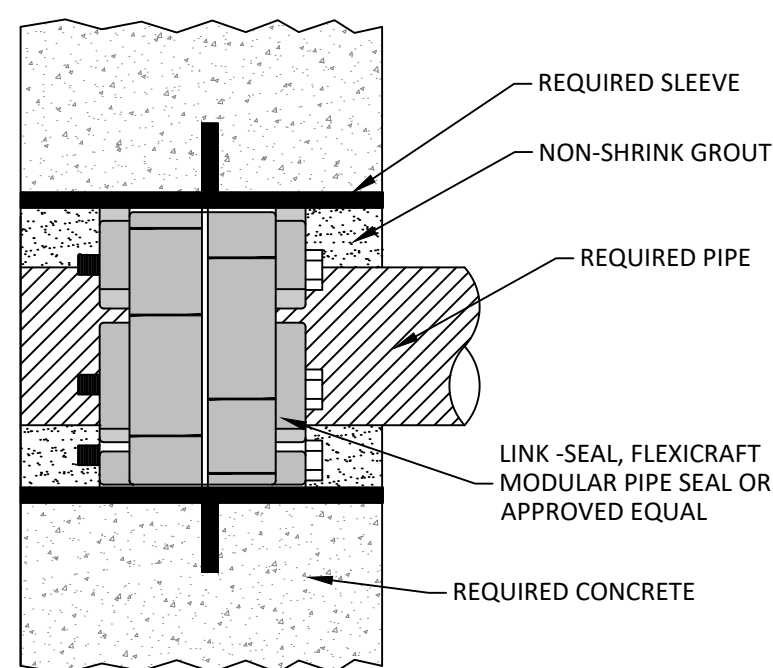
DETAIL - FORCE MAIN OPEN TRENCH



DETAIL - AIR LINE OPEN TRENCH

NOTES:

1. REINFORCING NOT SHOWN FOR CLARITY
2. PIPE SEALS SHALL BE INSTALLED AT ALL PIPE PENETRATIONS THROUGH REQUIRED CONCRETE
3. PIPE SEALS SHALL BE INSTALLED PER MANUFACTURES WRITTEN INSTALLATION INSTRUCTIONS.

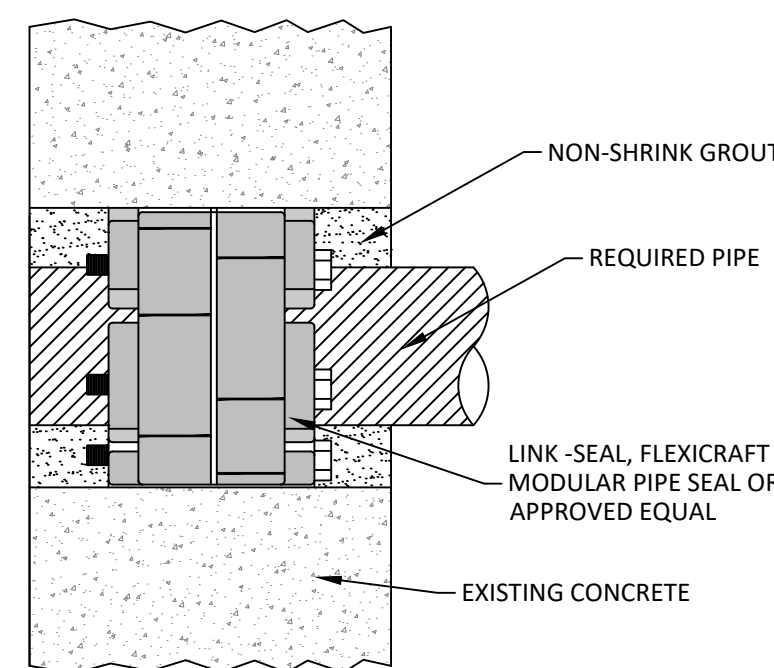


DETAIL - TYPICAL CONCRETE WALL SLEEVE PIPE PENETRATION

NOT TO SCALE

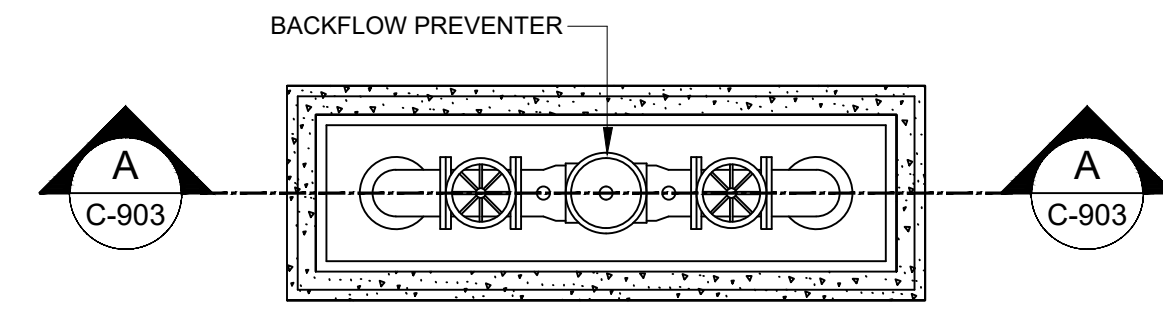
NOTES:

1. REINFORCING NOT SHOWN FOR CLARITY
2. PIPE SEALS SHALL BE INSTALLED AT ALL PIPE PENETRATIONS THROUGH EXISTING CONCRETE
3. PIPE SEALS SHALL BE INSTALLED PER MANUFACTURES WRITTEN INSTALLATION INSTRUCTIONS.

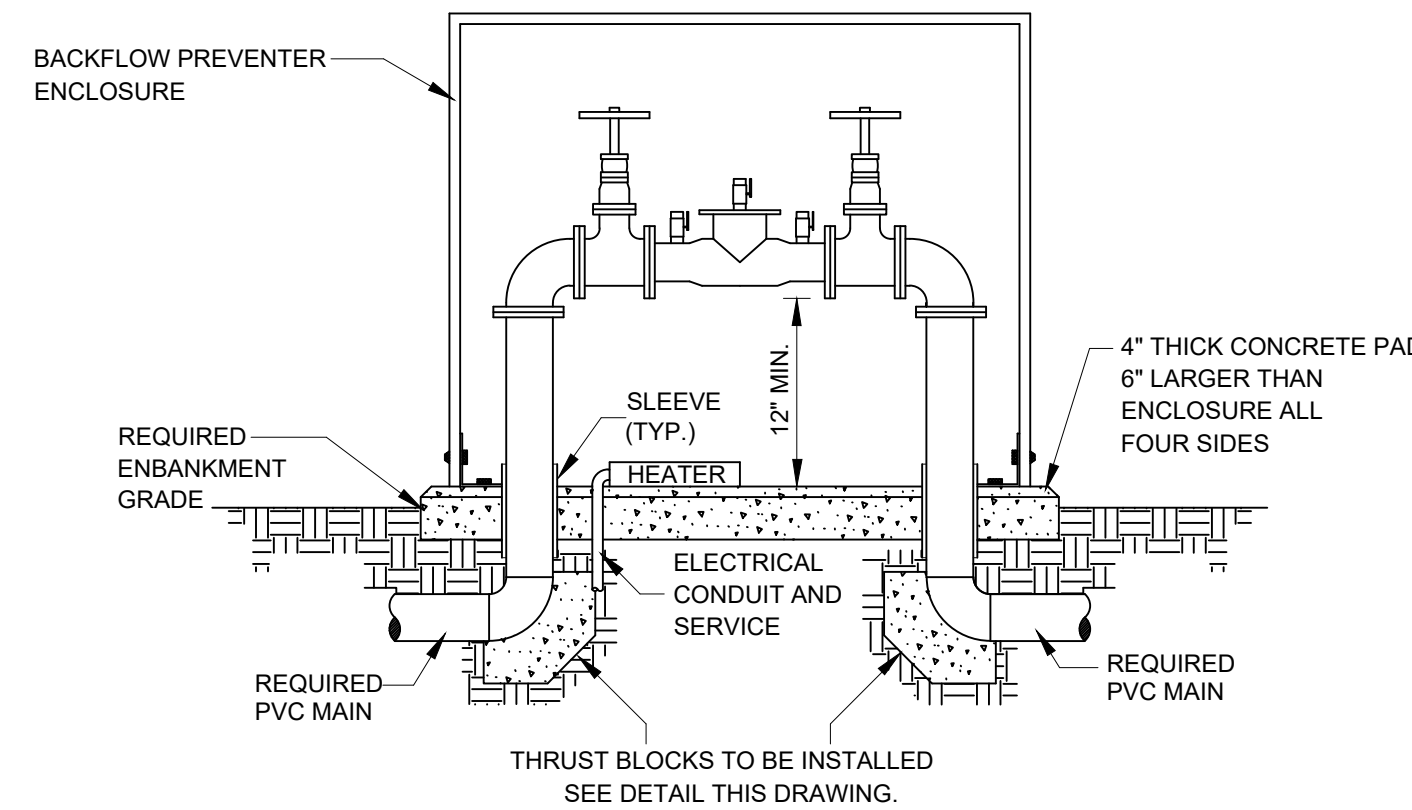


DETAIL - TYPICAL CONCRETE WALL SLEEVE PIPE PENETRATION

NOT TO SCALE

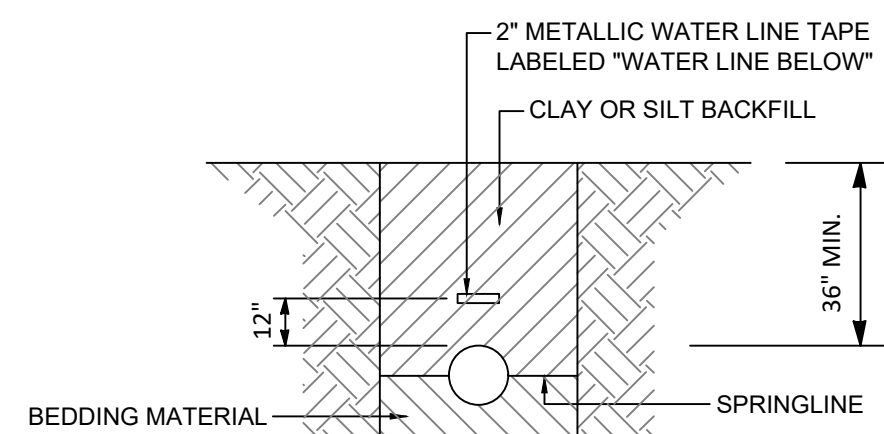


PLAN BACKFLOW PREVENTER ASSEMBLY
NOT TO SCALE

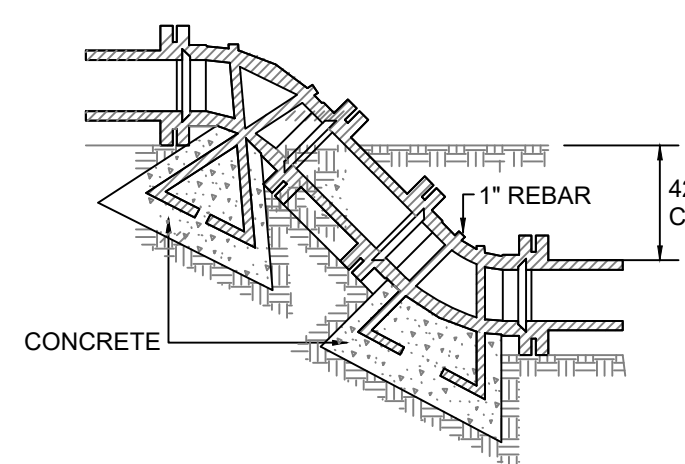


A
C-903

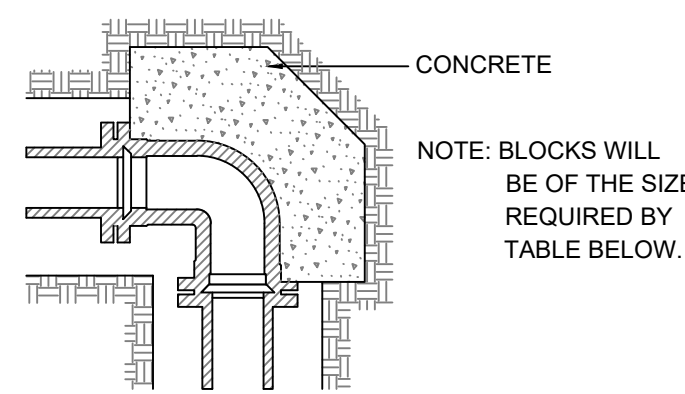
SECTION - BACKFLOW PREVENTER
ASSEMBLY
NOT TO SCALE



WATER LINE TRENCH DETAIL
NOT TO SCALE

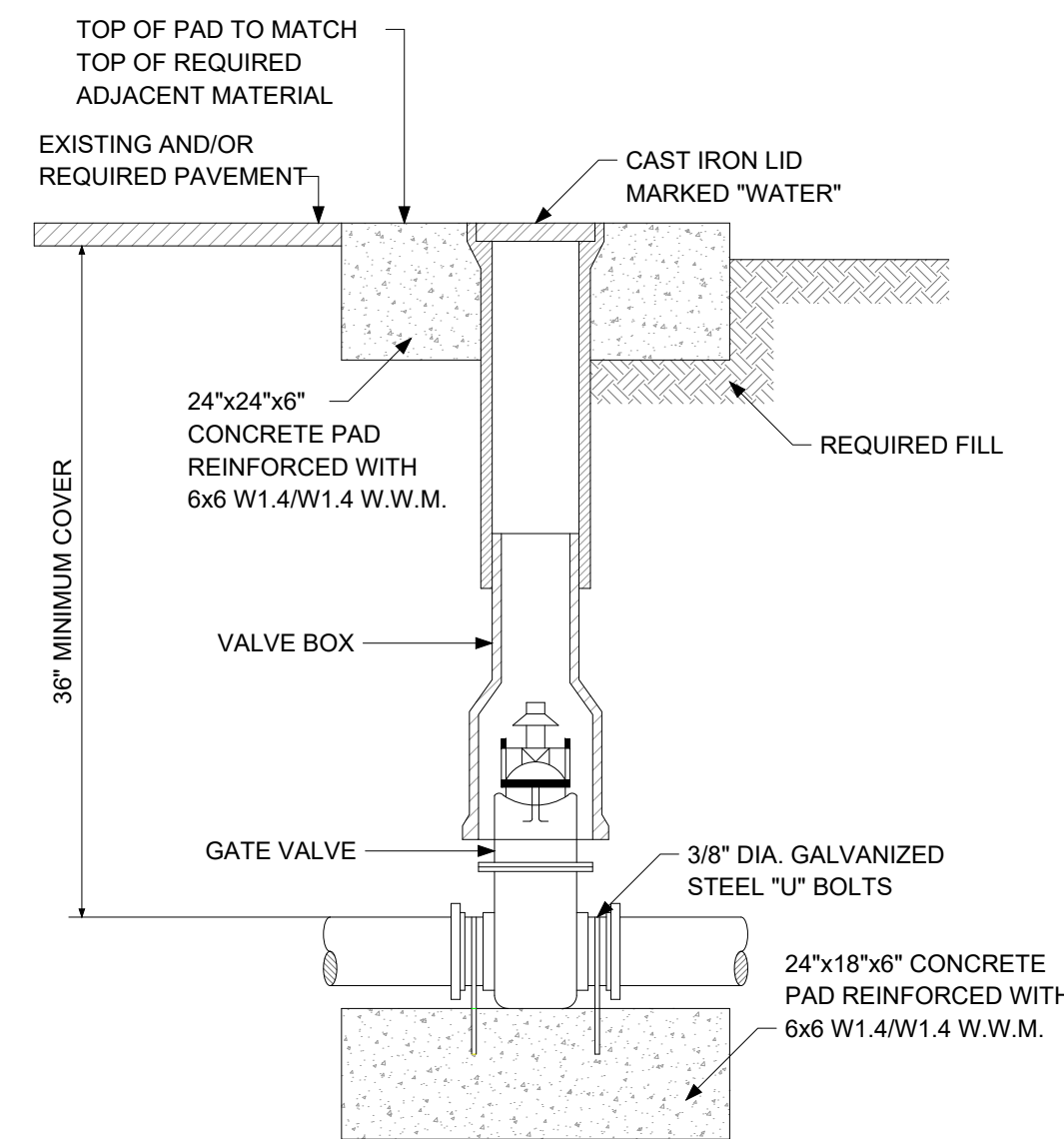


VERTICAL BENDS
NOT TO SCALE

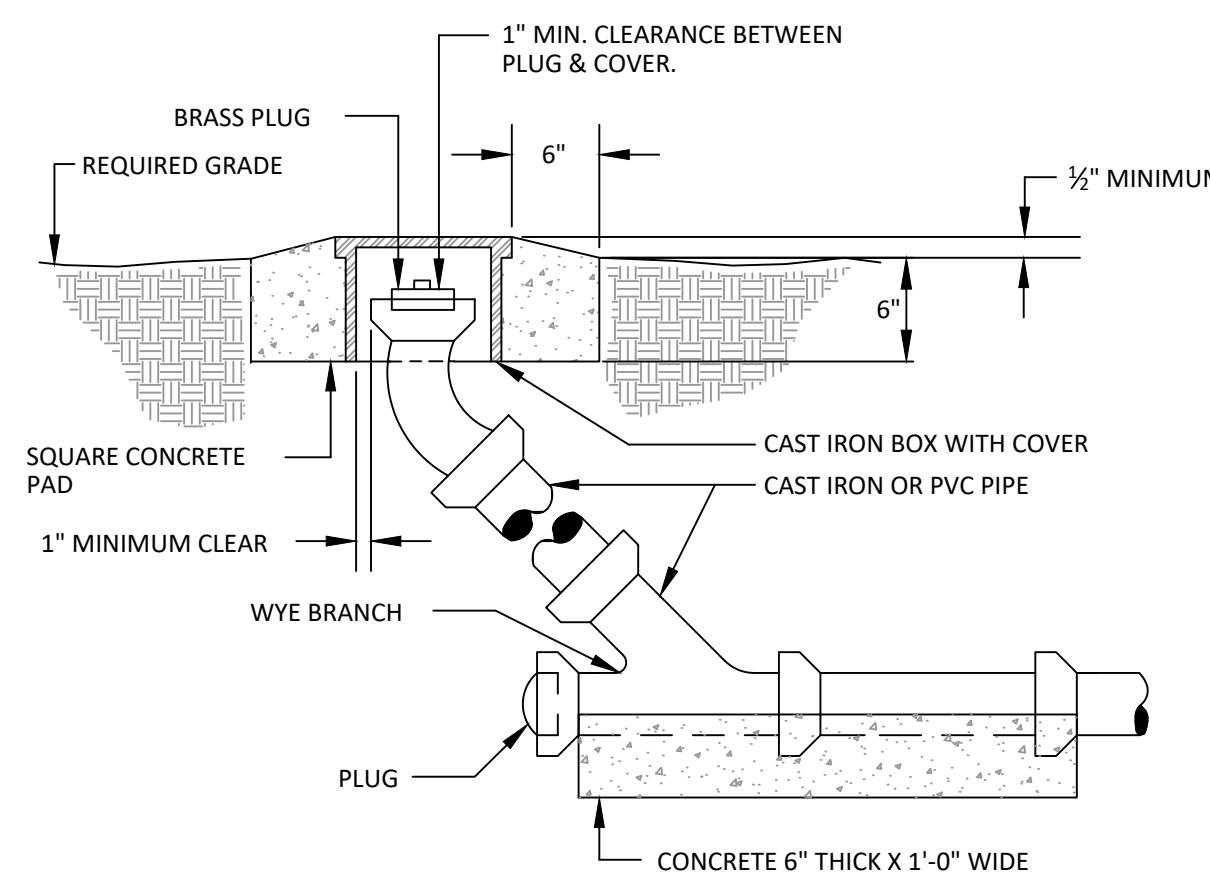


BENDS
WATER MAIN THRUST BLOCKS
NOT TO SCALE

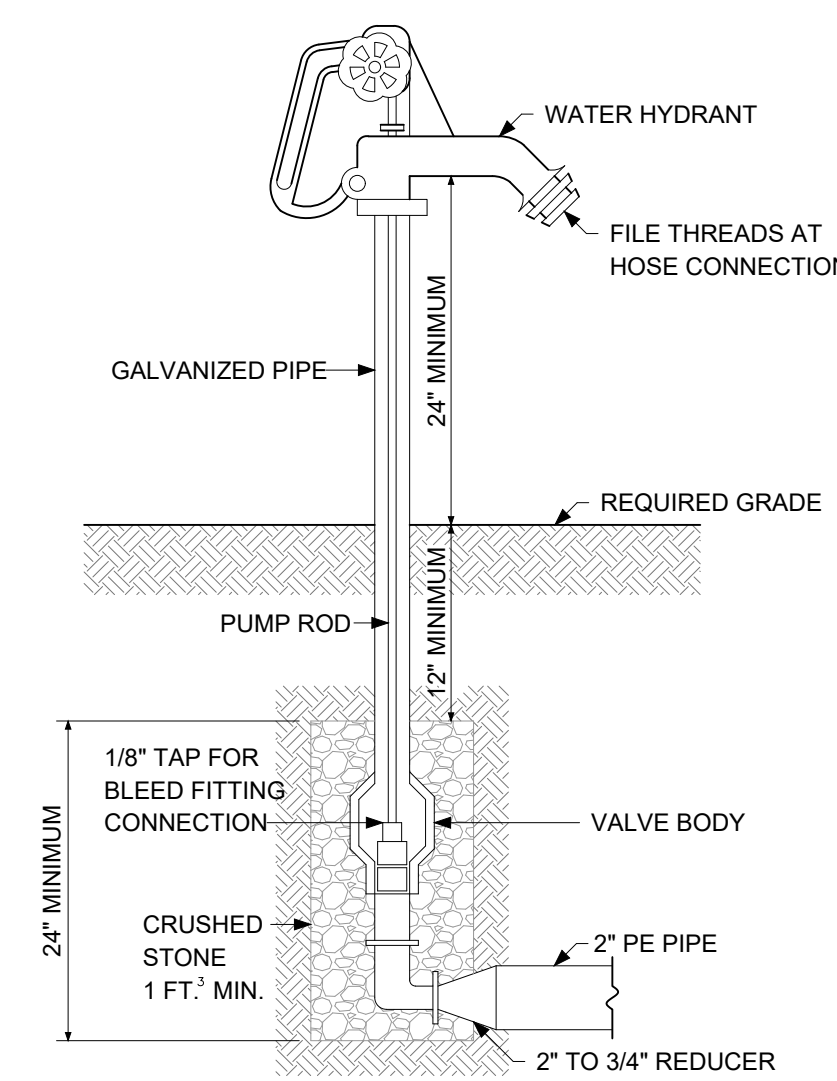
BEARING AREA IN SQ. FT.			
NOMINAL PIPE DIAMETER (IN.)	DEAD-END OR TEE	90° BEND	45° BEND
6	2.0	2.0	2.0
8	3.0	3.0	2.0
VERTICAL BENDS			
6			14.0 (0.52)
8			27.0 (1.00)
VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT.			



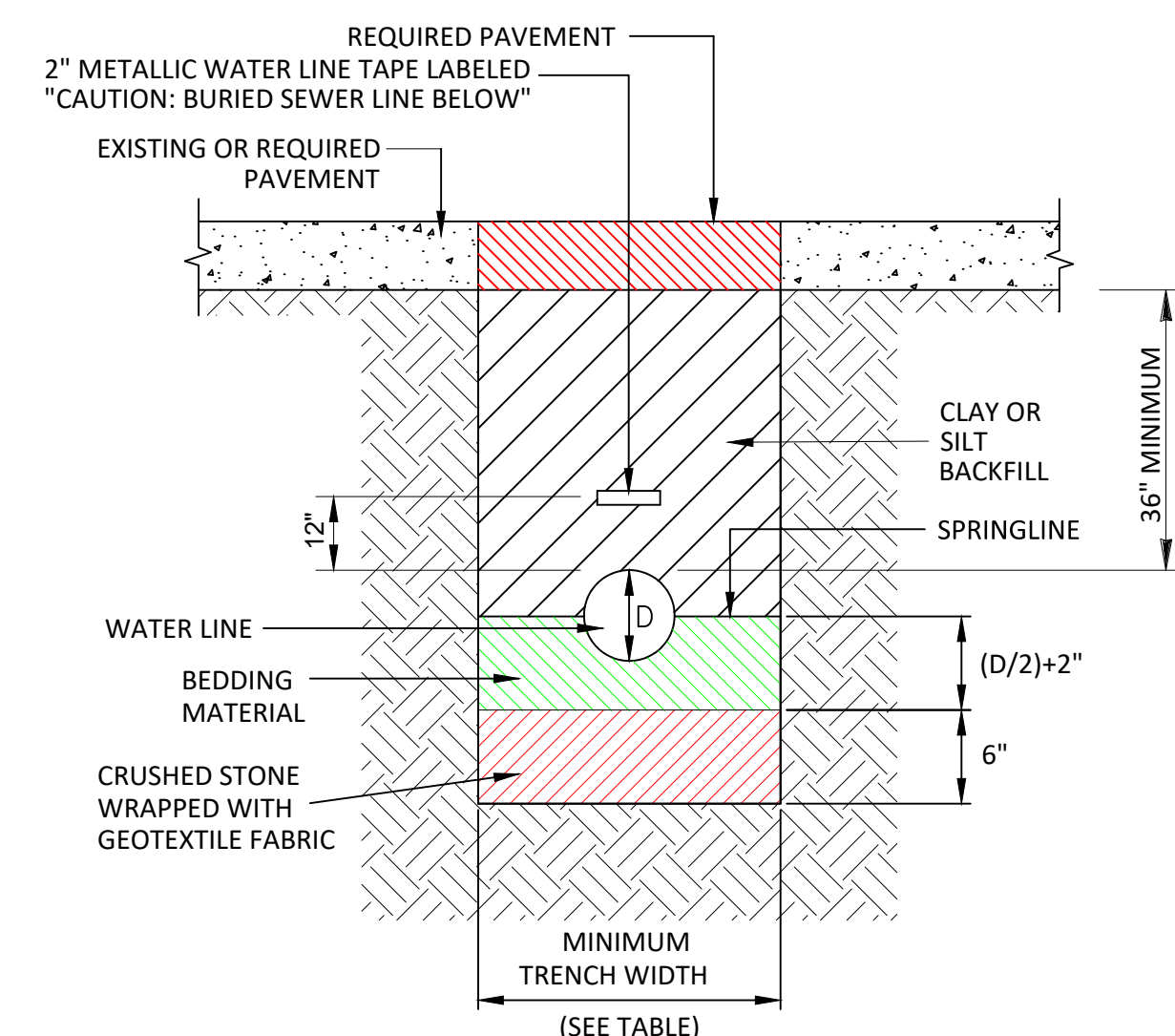
DETAIL - GATE VALVE
NOT TO SCALE



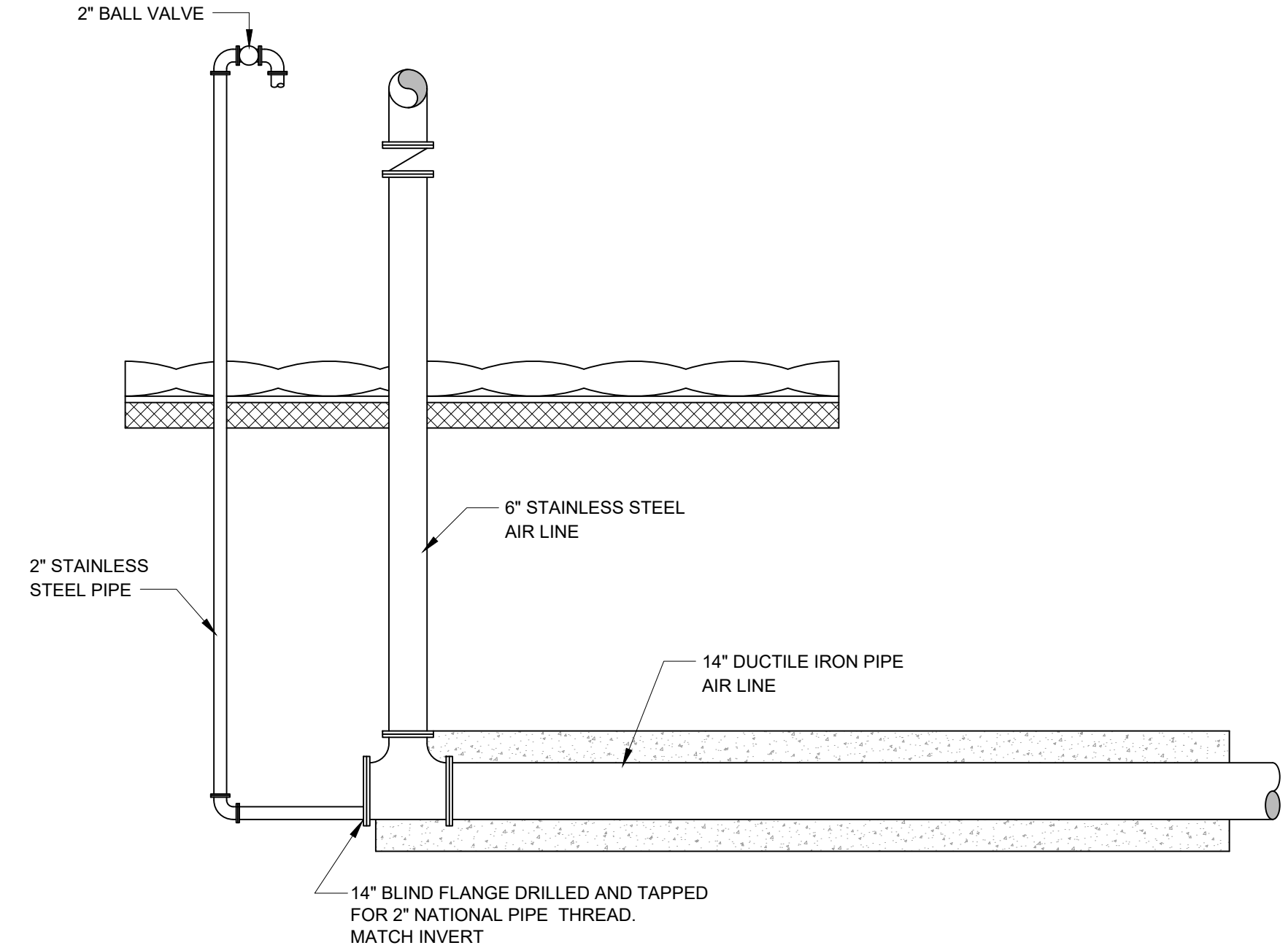
DETAIL -
TYPICAL CLEANOUT
NOT TO SCALE



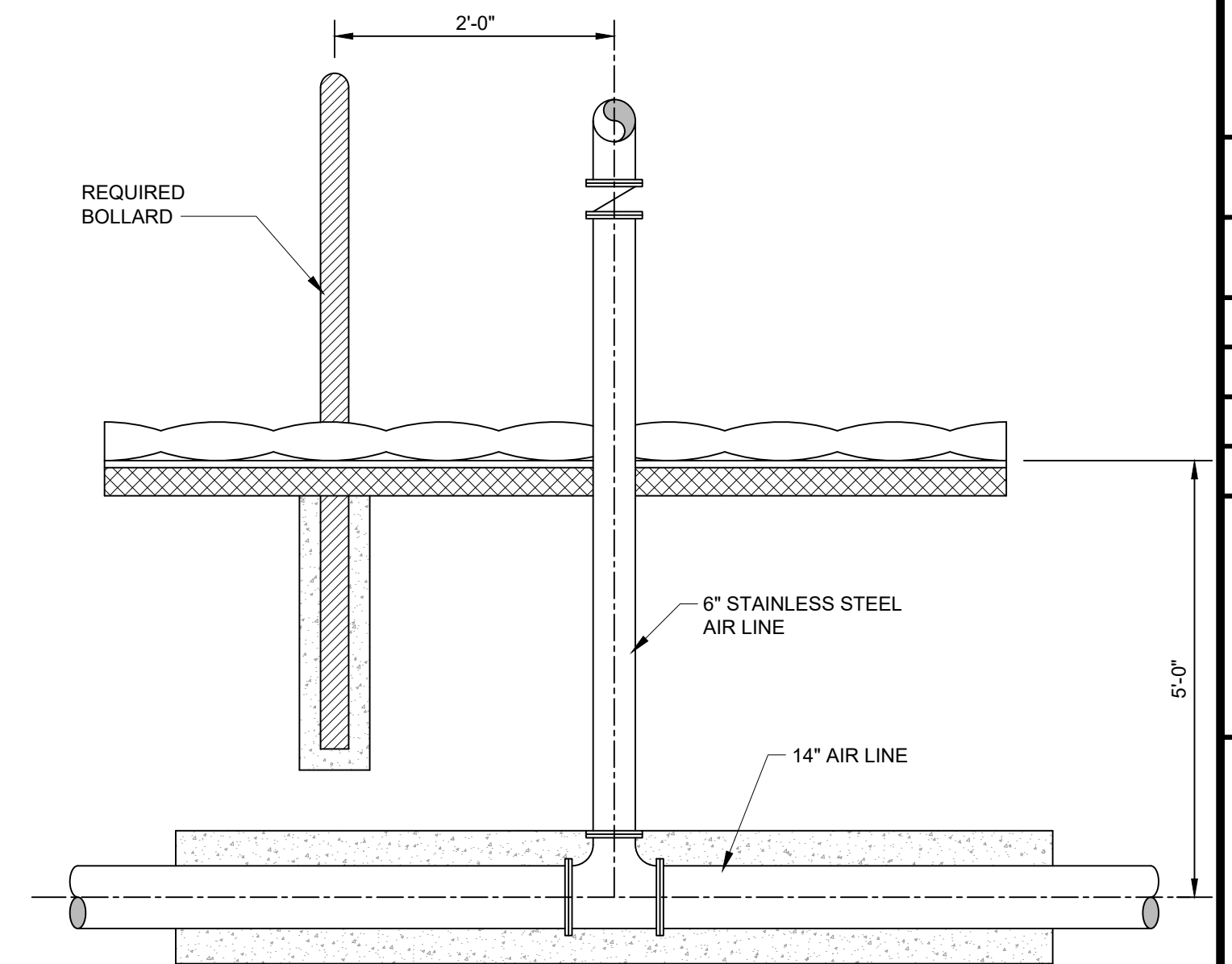
DETAIL - WATER HYDRANT
NOT TO SCALE



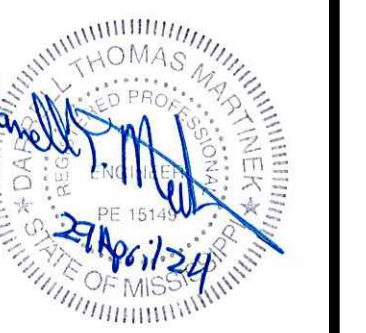
DETAIL - WATER LINE TRENCH PAVED AREAS
NOT TO SCALE

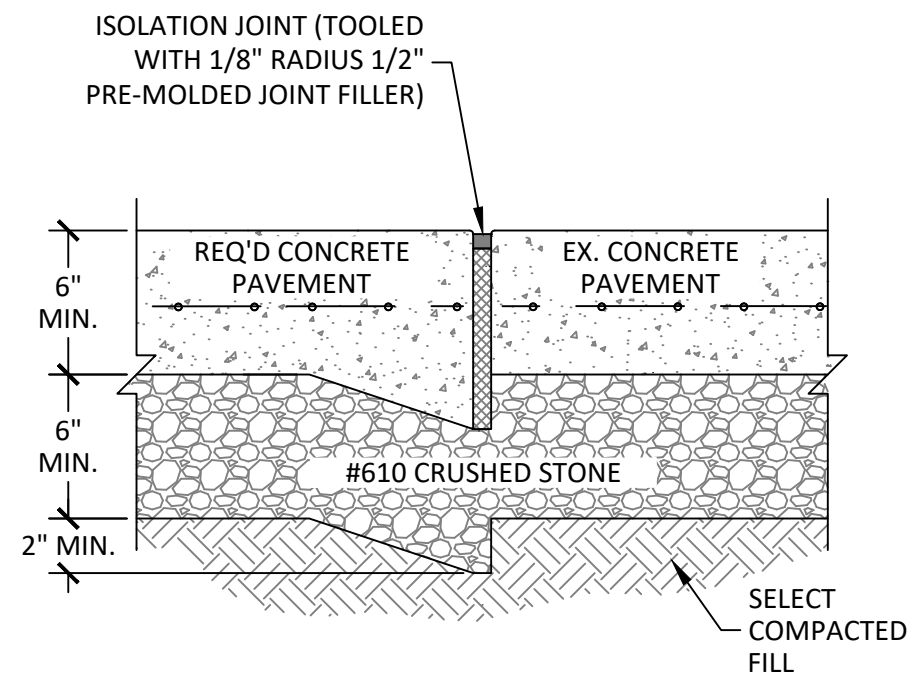


DETAIL - REQUIRED AIR LINE
NOT TO SCALE

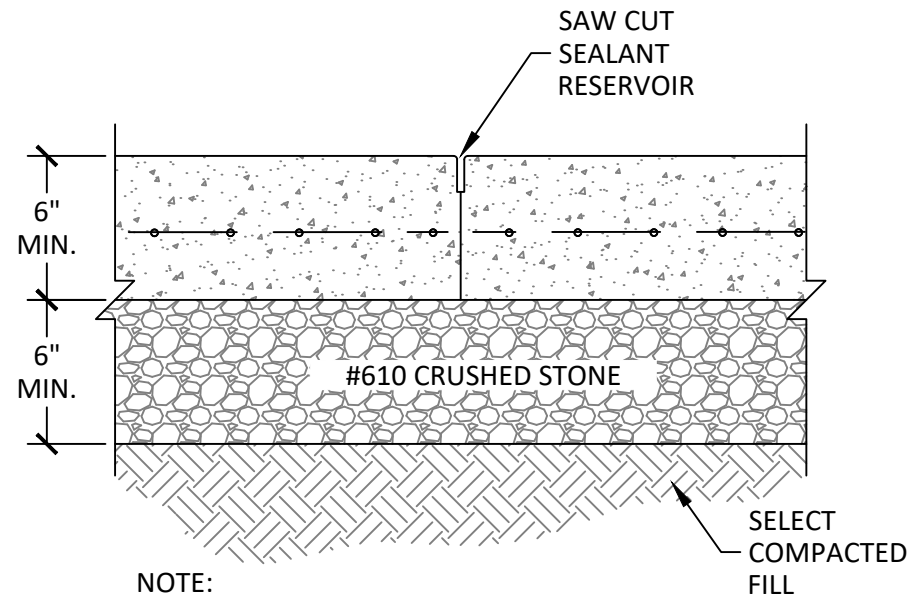


DETAIL - AIR LINE / BOLLARD
NOT TO SCALE





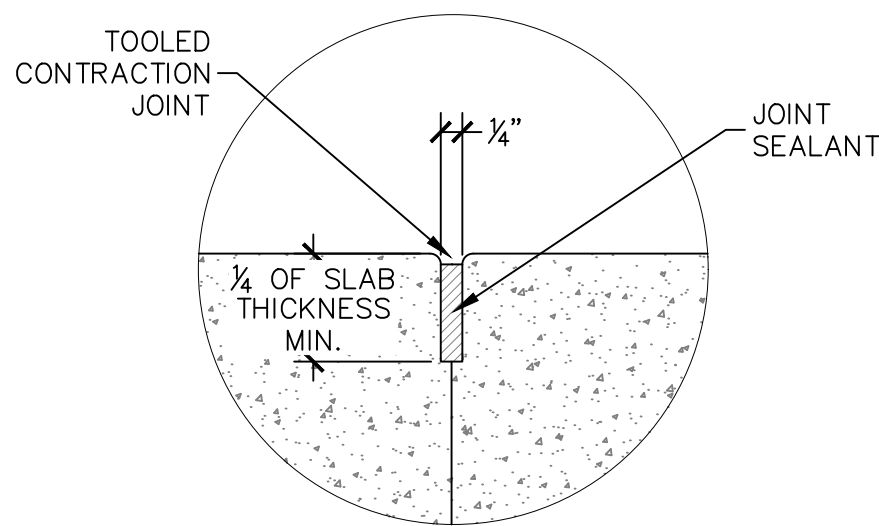
THICKENED EDGE ISOLATION JOINT



NOTE:

1. TRANSVERSE CONSTRUCTION JOINT AT 6" PAVEMENT. LOCATE AT CONTRACTION JOINT.

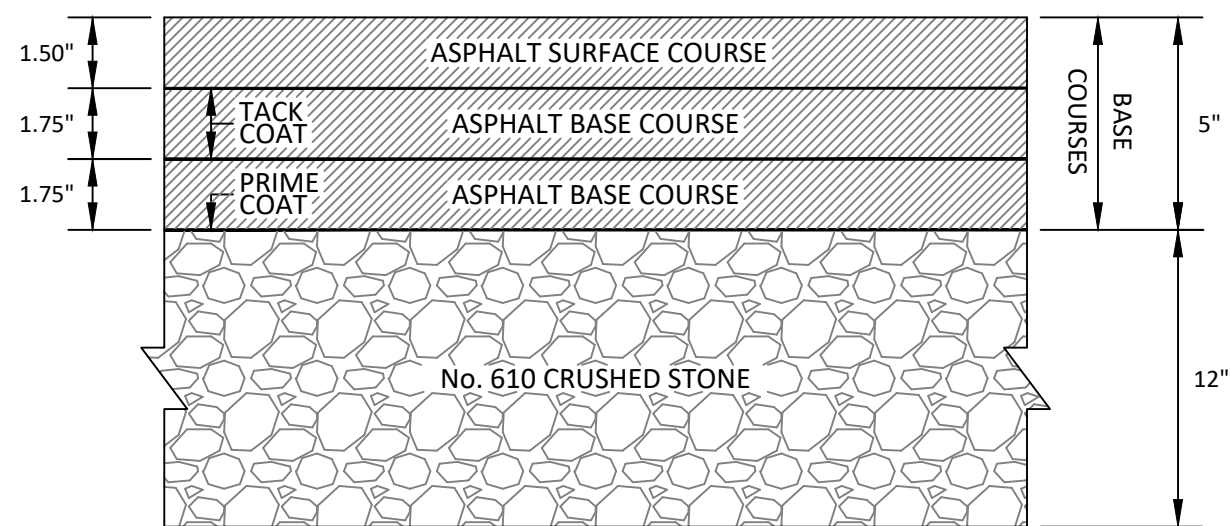
BUTT JOINT



TOOLED CONTRACTION JOINT

DETAILS - CONCRETE CONSTRUCTION JOINTS DETAIL

NOT TO SCALE

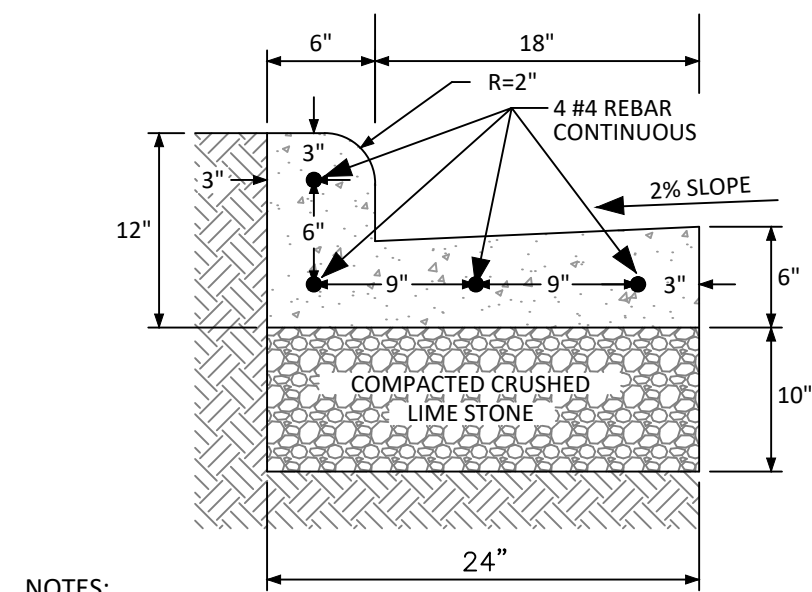


NOTES:

1. ASPHALT, PRIME COAT, AND TACK COAT SHALL BE PLACED IN ACCORDANCE WITH THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
2. ASPHALT BASE COURSES SHALL BE HMA ST 12.5MM.
3. ASPHALT SURFACE COURSE SHALL BE HMA ST 9.5MM.

DETAIL - ASPHALT PAVEMENT DETAIL

NOT TO SCALE

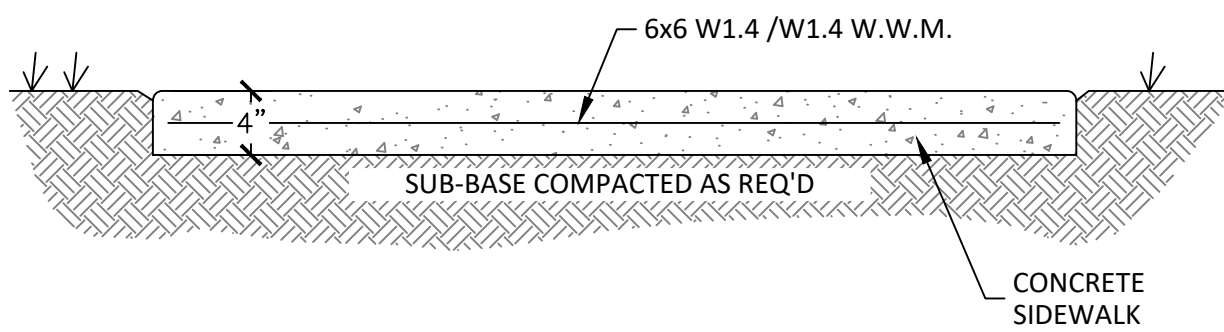


NOTES:

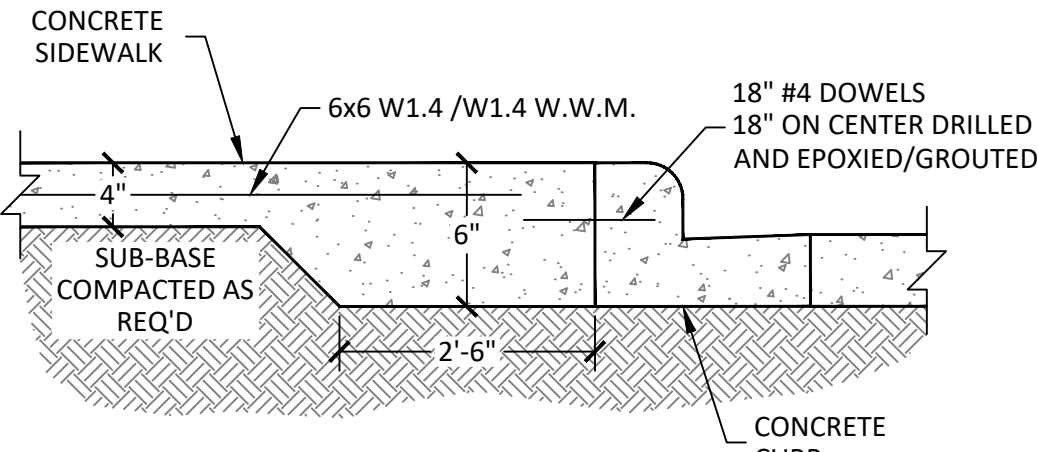
1. CURB AND GUTTER SHALL BE PLACED MONOLITHICALLY.
2. CURB DIMENSIONS SHALL MATCH THE DIMENSIONS OF THE EXISTING CURB ON EACH END OF THE NEW CURB.

DETAIL - CONCRETE CURB & GUTTER

NOT TO SCALE



TYPICAL SIDEWALK



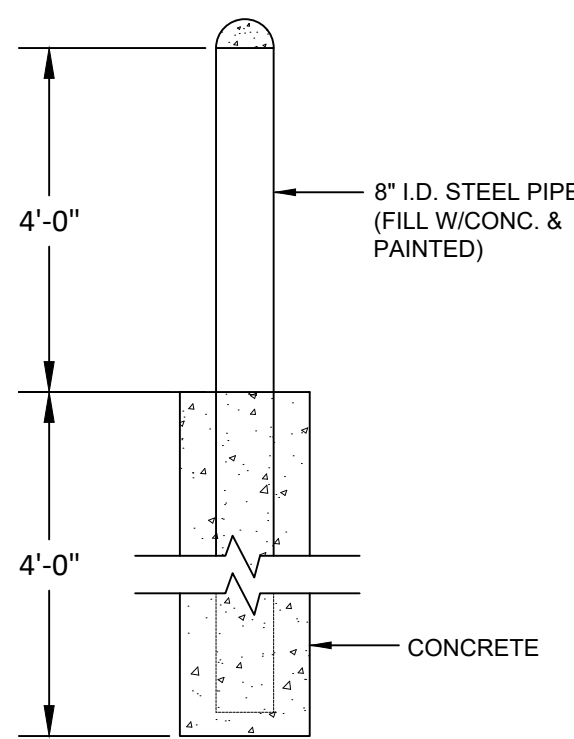
SIDEWALK W/ CURB CONNECTION

NOTE:

1. CONTRACTION JOINT SPACING SHALL NOT EXCEED WIDTH OF SIDEWALK AND SHALL BE EVENLY SPACED. CONTRACTION JOINTS SHALL BE PERPENDICULAR TO DIRECTION OF TRAVEL.

DETAIL - CONCRETE SIDEWALK

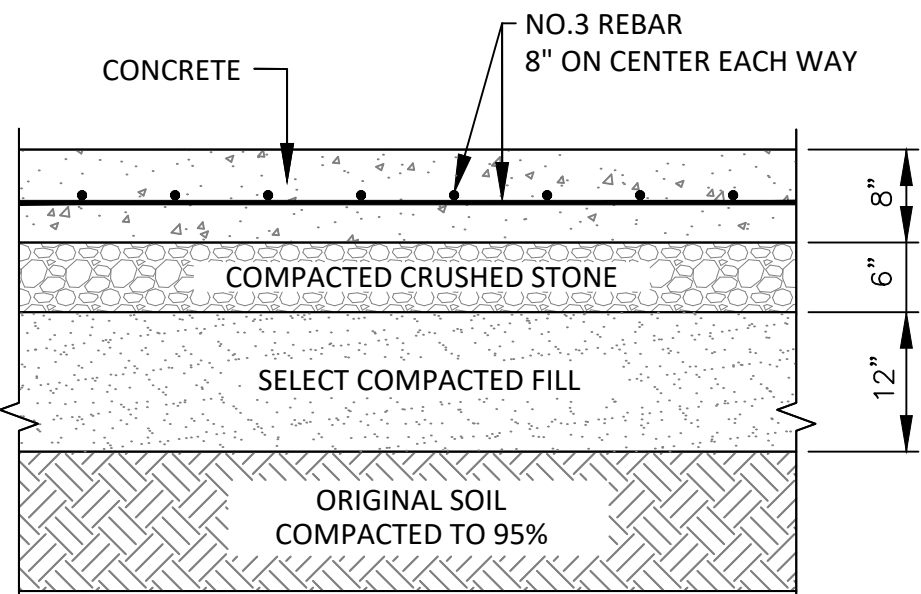
NOT TO SCALE



DETAIL - BOLLARD

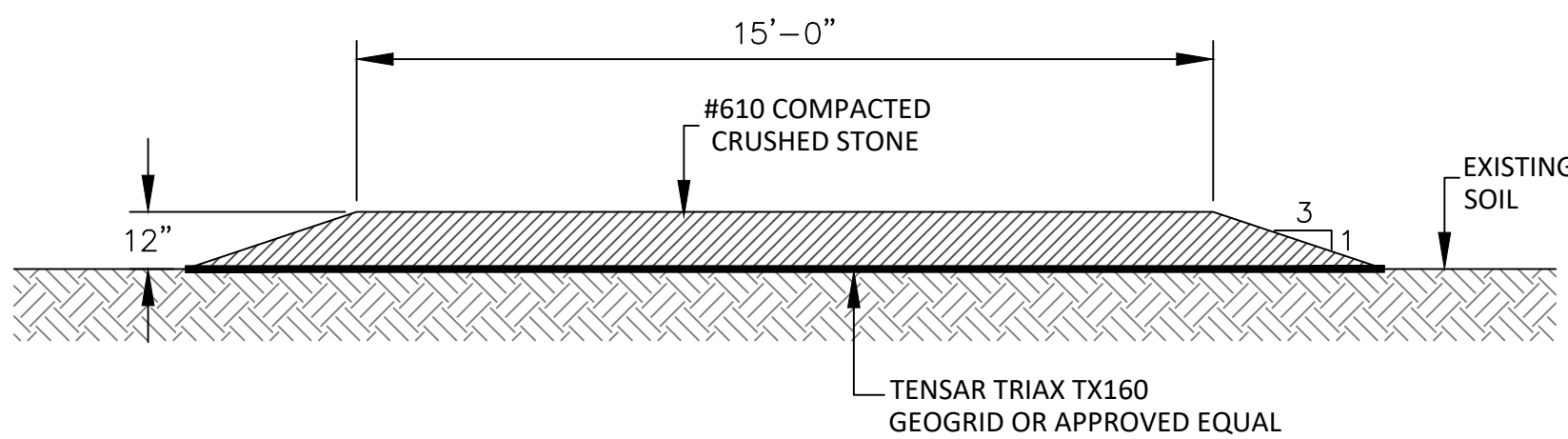
NOT TO SCALE

NOT TO SCALE



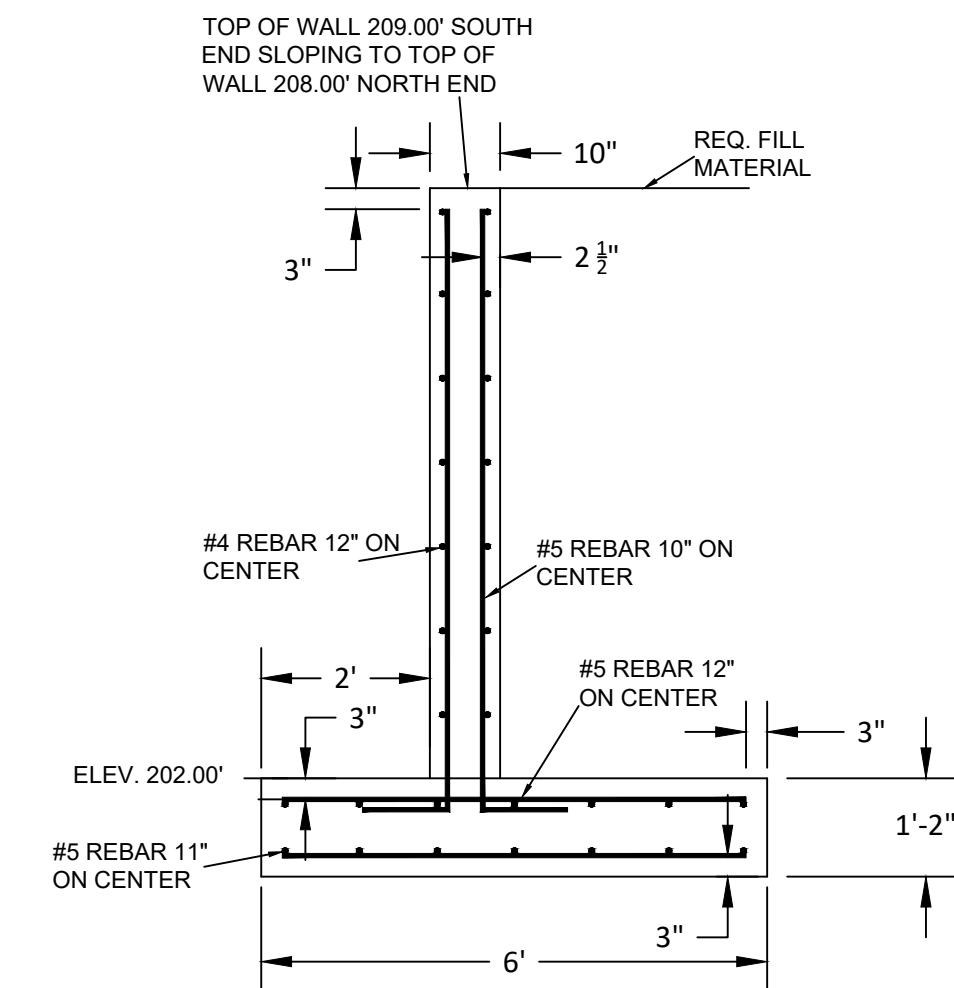
DETAIL - 8" REINFORCED CONCRETE PAVEMENT

NOT TO SCALE



DETAIL - GRAVEL DRIVE

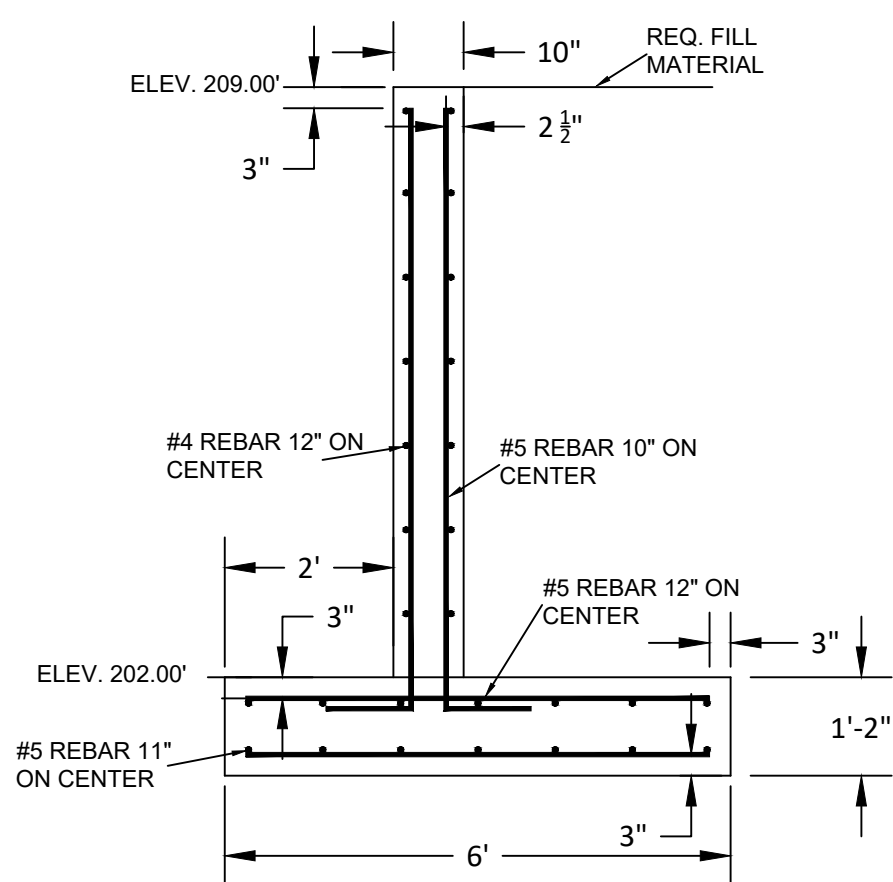
NOT TO SCALE



WEST CONCRETE RETAINING WALL DETAIL

N.T.S.

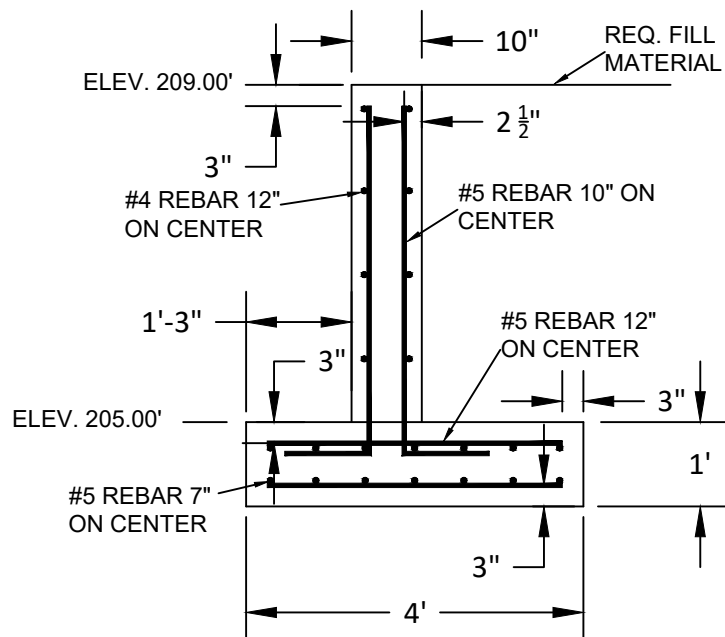
1
C-904



SOUTH CONCRETE RETAINING WALL DETAIL

N.T.S.

2
C-904



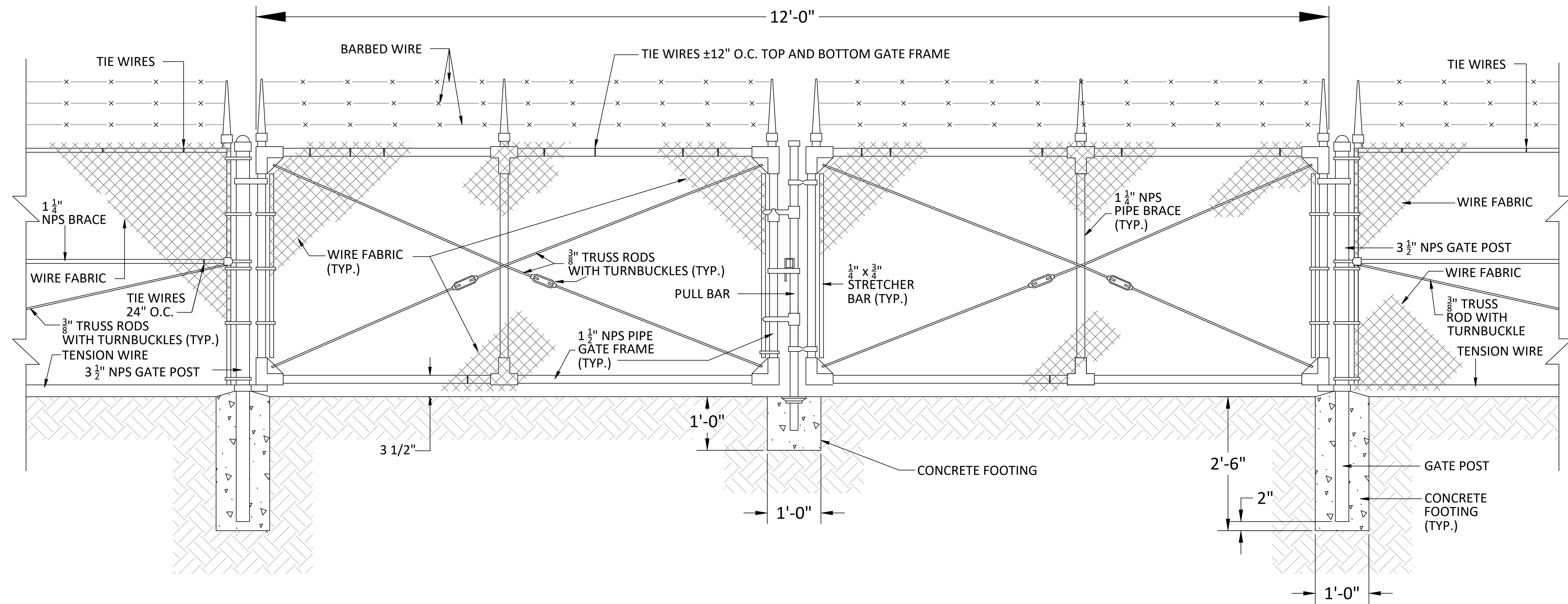
EAST CONCRETE RETAINING WALL DETAIL

N.T.S.

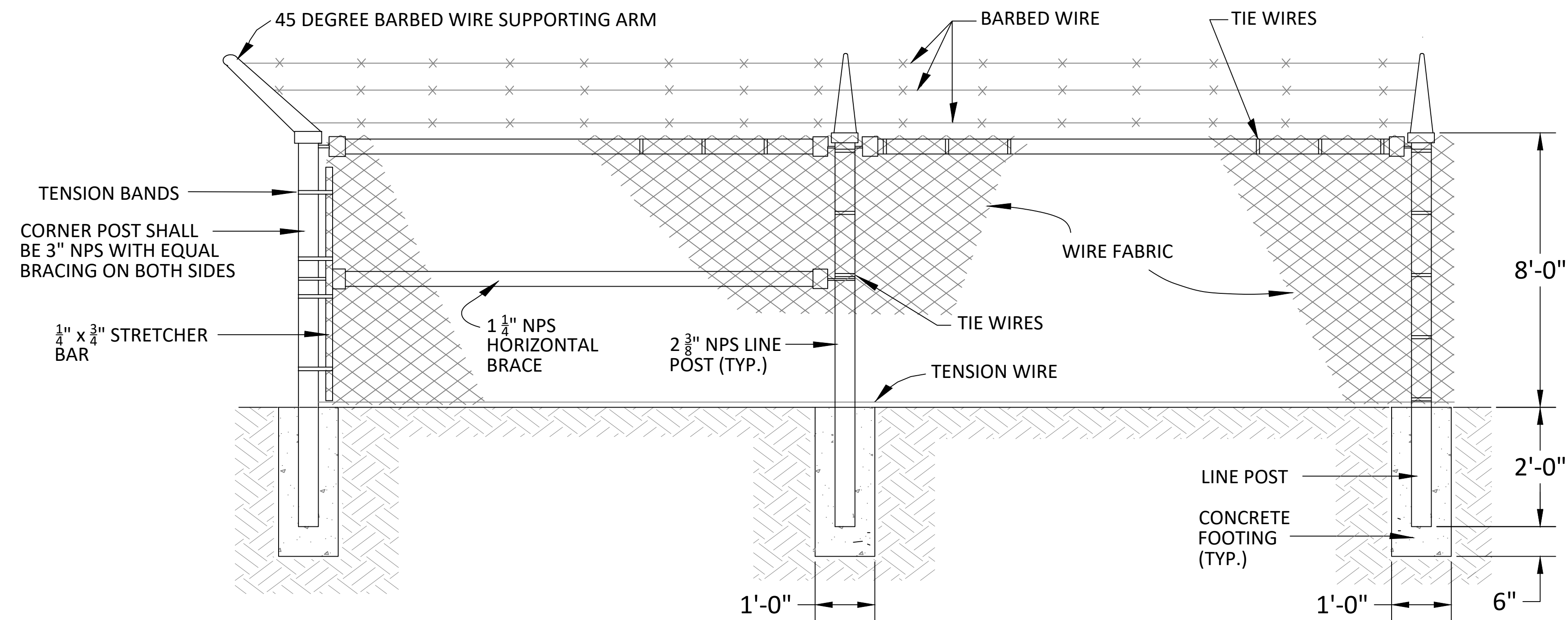
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C-904

GENERAL NOTES:

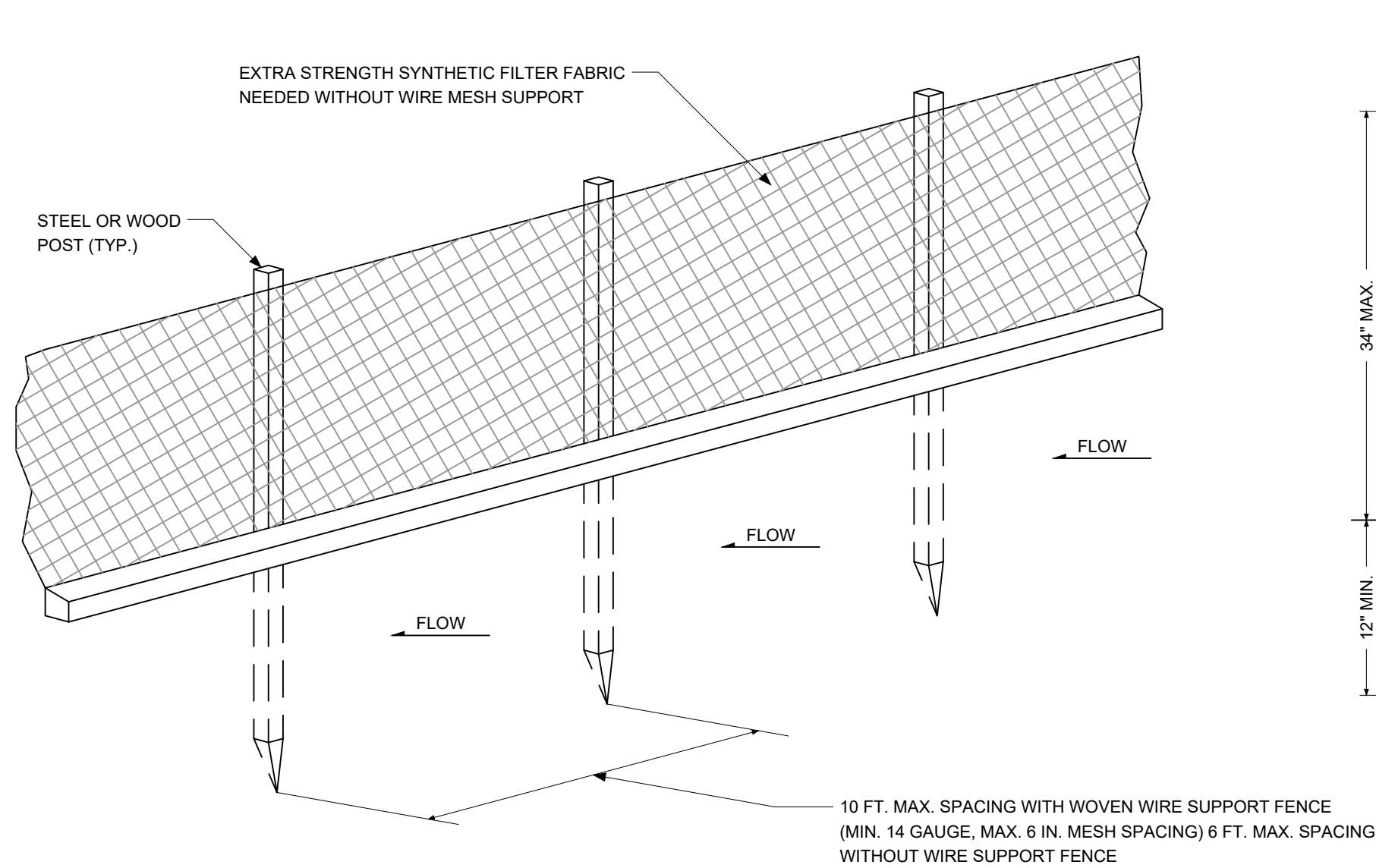
1. ALL REBAR TO BE GRADE 60. MILL CERTIFICATION REQUIRED ON ALL REBAR INSTALLED.
2. ALL CONCRETE TO ACHIEVE 3500 PSI COMPRESSIVE STRENGTH AFTER 28 DAYS.
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT ACCESSORIES AND CHAIRS TO PLACE REINFORCEMENT, AND ALL OTHER APPURTENANCES.
4. ALL EXPOSED CONCRETE CORNERS TO HAVE 3/8" CHAMFER EDGE.
5. CONTRACTOR TO PROVIDE ALL CORNER REINFORCEMENT AND LAP ALL CONTINUOUS REINFORCEMENT IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318 BY AMERICAN CONCRETE INSTITUTE (ACI).
6. CONTRACTOR TO BACKFILL AROUND FINISHED CONCRETE STRUCTURE WITH EXISTING EXCAVATED SOIL. ALL BACKFILL SOIL AND EXISTING FOUNDATION SOILS TO BE COMPACTED TO 95% STANDARD PROCTOR ASTM D698.



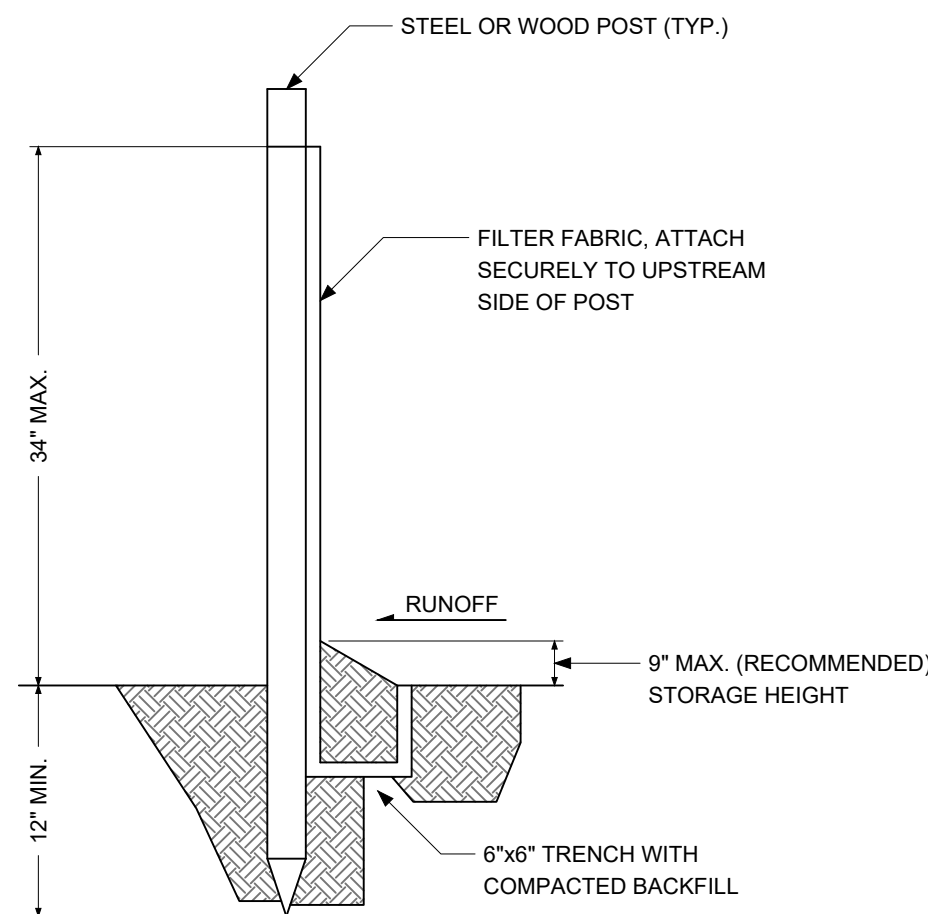
DOUBLE CHAIN LINK GATE
NOT TO SCALE



DETAIL - CHAIN LINK FENCE
NOT TO SCALE

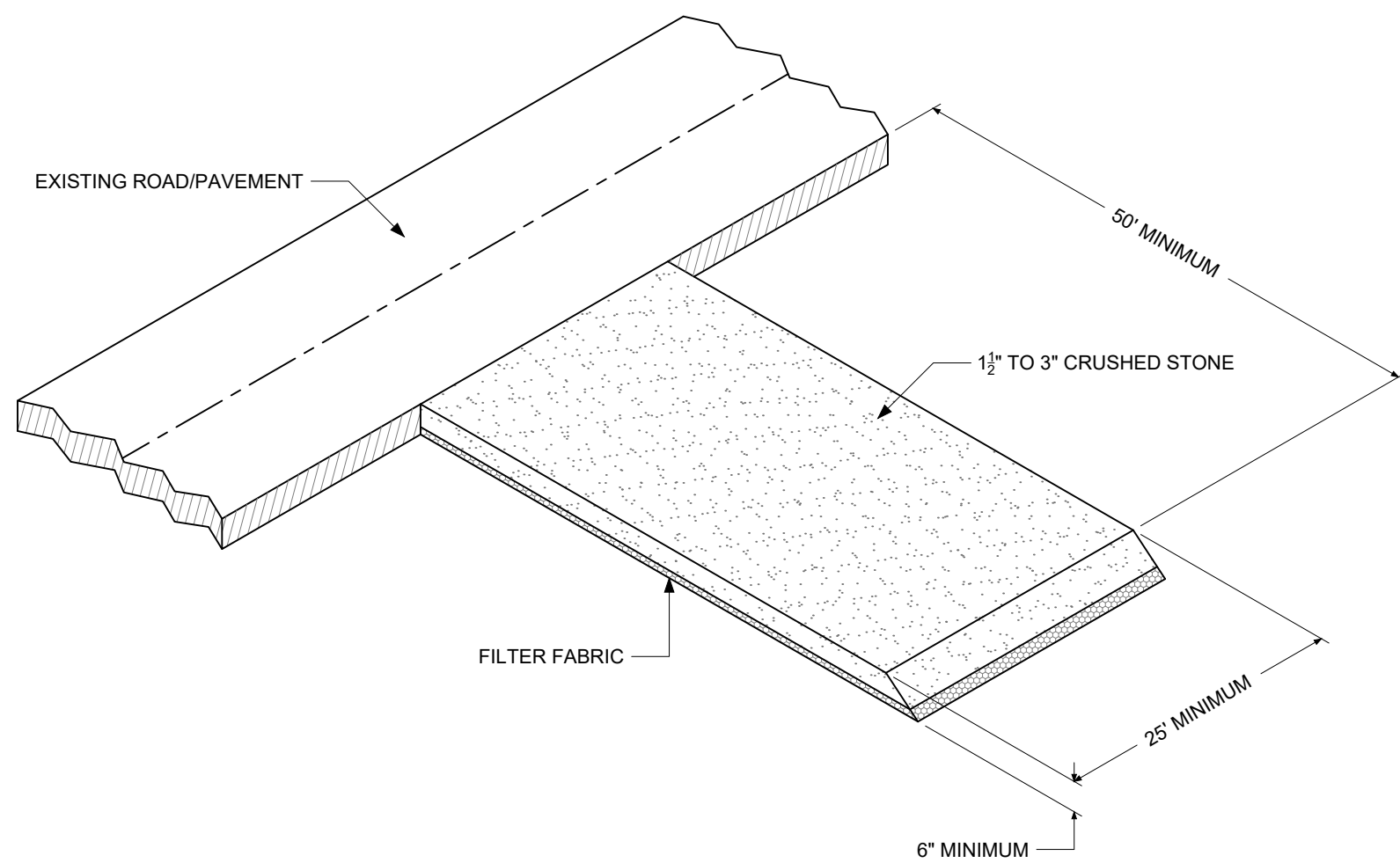


STANDARD DETAIL



SILT FENCE

NOT TO SCALE

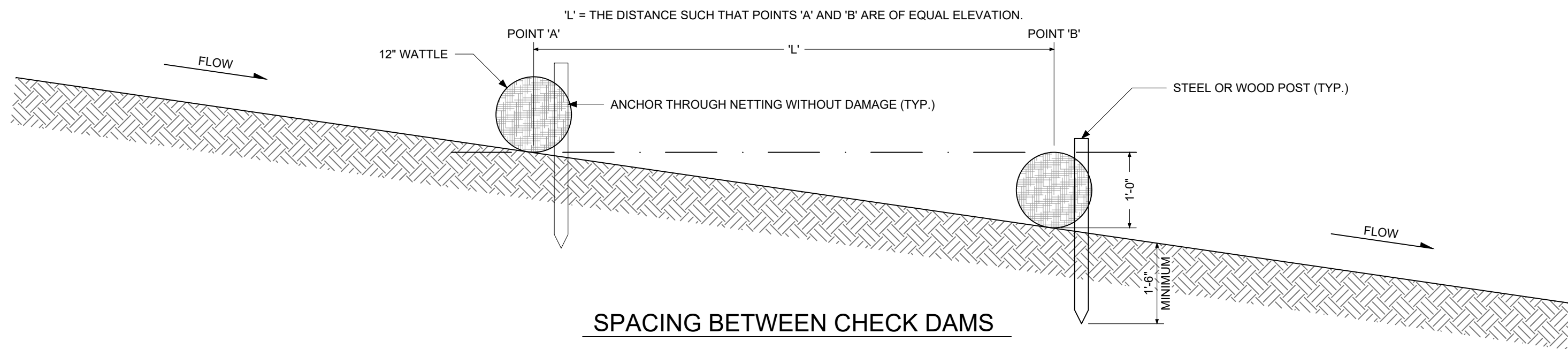


DETAIL - CONSTRUCTION ENTRANCE

NOT TO SCALE

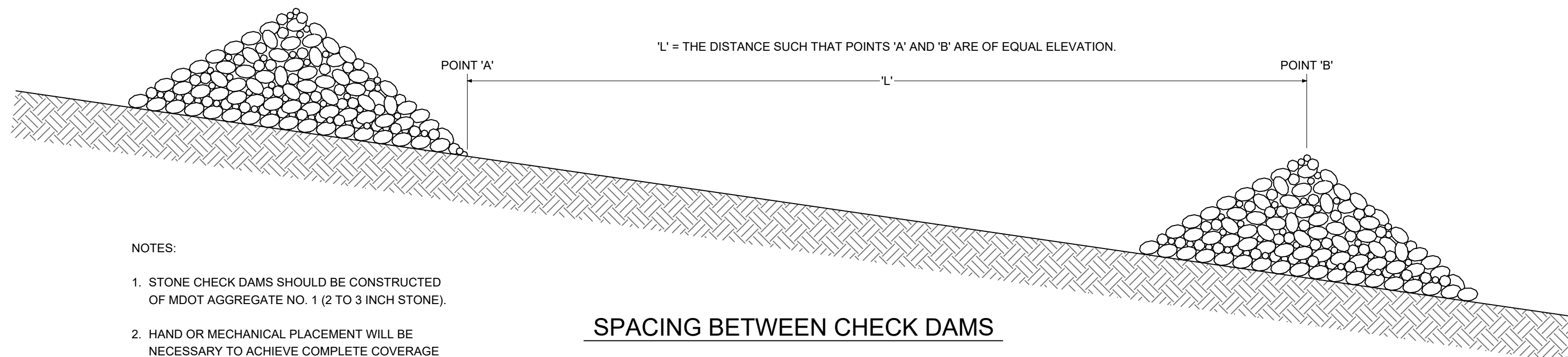
NOTES:

1. IF GRAVEL PAD IS INSUFFICIENT TO REMOVE DIRT FROM TIRES, THEN TIRES MUST BE WASHED BEFORE VEHICLE LEAVES SITE.
2. WIDEN PAD AT CONNECTION WITH ROAD TO PROVIDE FOR TURNING RADIUS OF TRUCKS.
3. SWEEP PAVED ROAD DAILY TO REMOVE DIRT AND STONE.
4. REDRESS STONE AS CONDITIONS DEMAND, DO NOT LET FILTER FABRIC BE EXPOSED.



SILT FENCE CHECK DAM, TYPE II

NOT TO SCALE



SPACING BETWEEN CHECK DAMS

RIPRAP CHECK DAM

NOT TO SCALE

NOTES:

1. STONE CHECK DAMS SHOULD BE CONSTRUCTED OF MDOT AGGREGATE NO. 1 (2 TO 3 INCH STONE).
2. HAND OR MECHANICAL PLACEMENT WILL BE NECESSARY TO ACHIEVE COMPLETE COVERAGE OF THE DITCH OR SWALE AND TO INSURE THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES.



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Burle Proj. No.:
08194-1-0122

File Name:
C-906 EROSION CONTROL.dwg

Date: 04/29/2024

Scale: 1"=30'

Drawn by: JRG

Checked: DTM

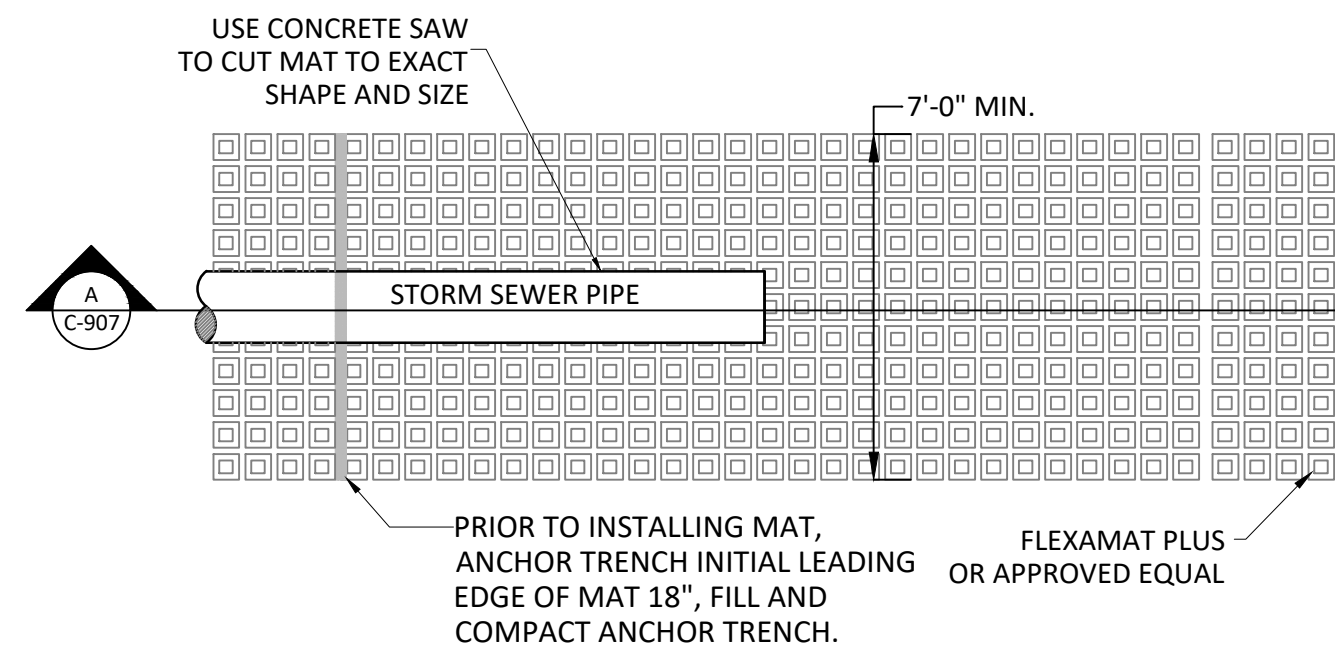
Revisions:

Revisions:

Revisions:

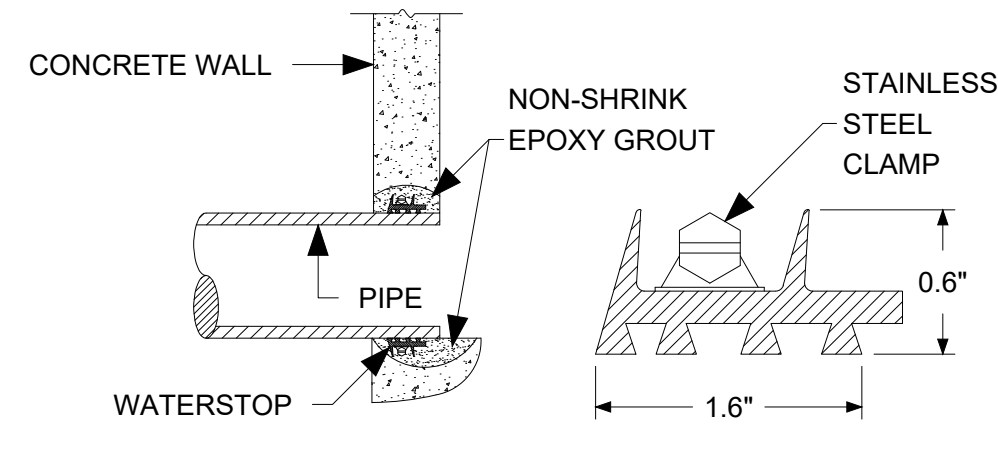
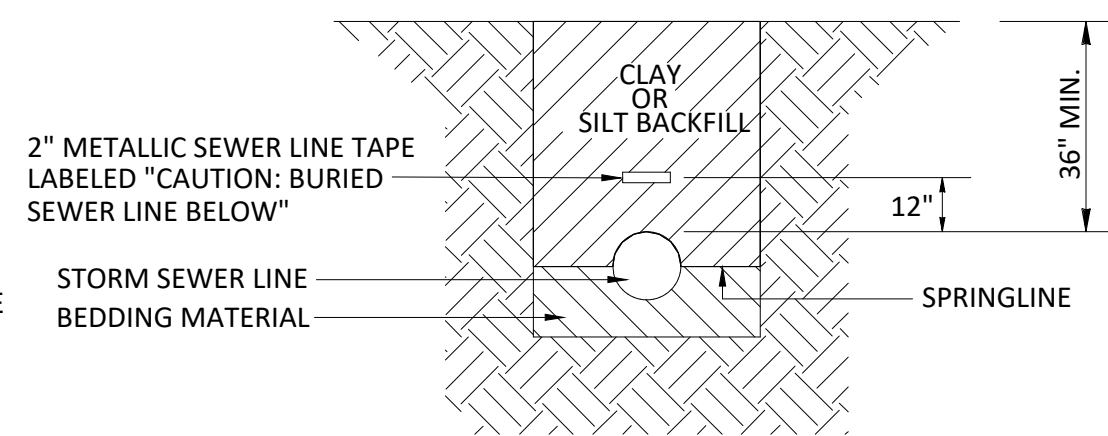
DETAIL -
EROSION CONTROL

C-906
Drawing Number



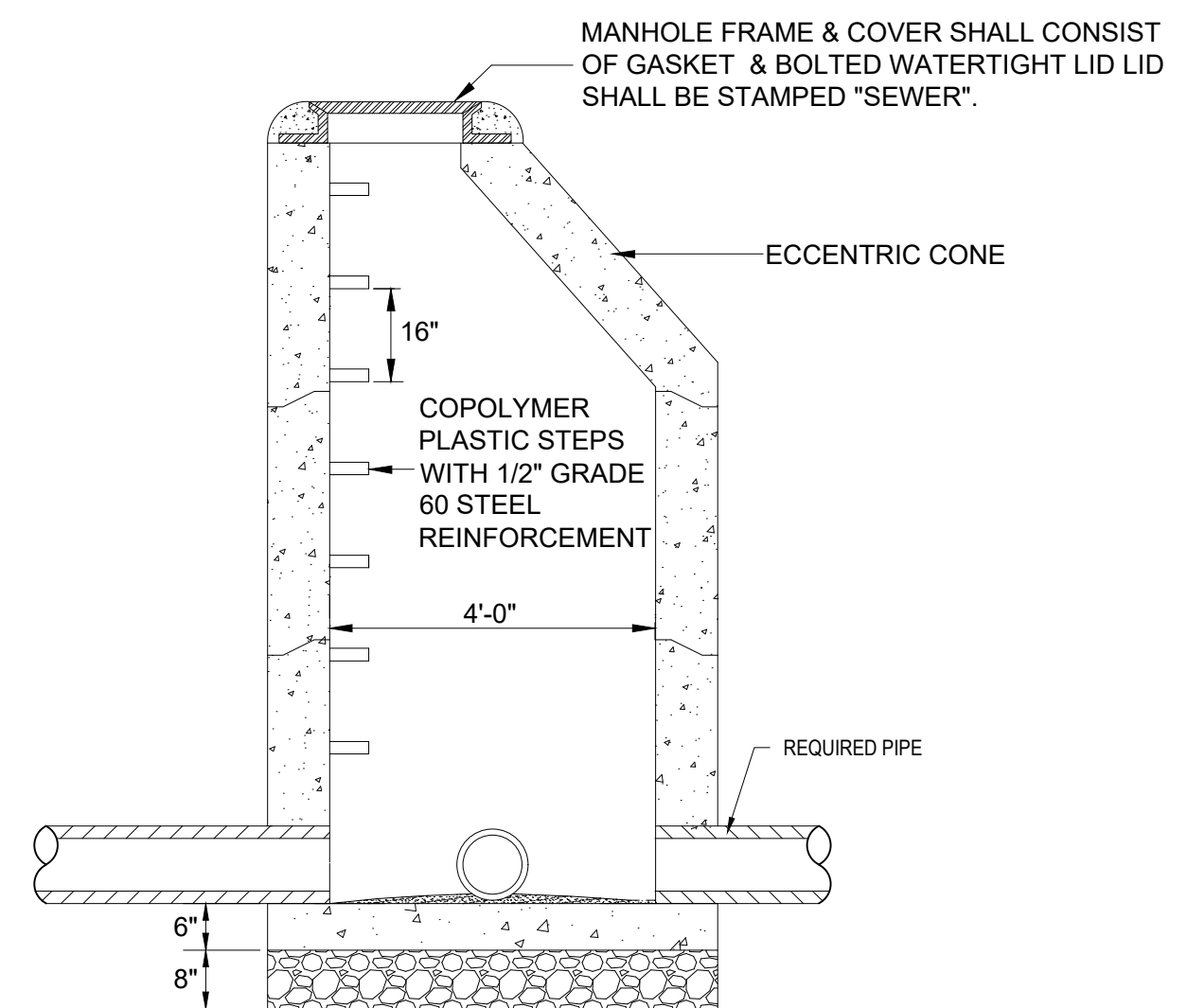
CONSTRUCTION NOTES:

1. GRADE OUTFALL AREA SO THAT WATER WILL FLOW DOWN THE CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION FOR THE MATS WITH NO SHARP OR ABRUPT BREAKS IN THE GRADE.
2. APPLY SEED DIRECTLY TO THE PREPARED SOIL PRIOR TO FLEXAMAT INSTALLATION. USE SEED PER PROJECT SPECIFICATIONS.
3. A CONCRETE SAW SHALL BE USED TO CUT THE MAT TO EXACT SIZE AND SHAPE.

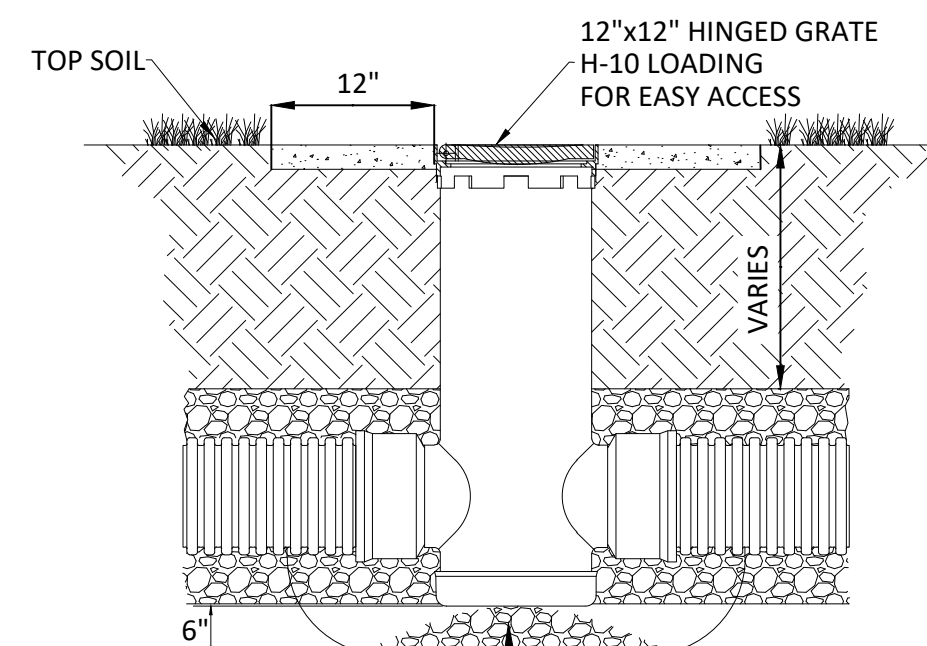


NOTES:

- 1) STANDARD PRECAST CONCRETE MANHOLE SHALL COMPLY WITH ASTM C478.
- 2) ALL PRECAST MANHOLE SECTIONS SHALL BE COATED WITH 20 MIL THICKNESS COAL TAR EPOXY.
- 3) ALL JOINTS SHALL BE GROUTED INSIDE AND OUTSIDE. JOINT MATERIAL SHALL BE PREFORMED FLEXIBLE MASTIC AND SHALL COMPLY WITH ASTM C 990.
- 4) ALL PIPE ENTERING MANHOLES SHALL BE FITTED WITH WATERSTOP.



DRAIN BASIN



THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

CONSTRUCTION NOTES:

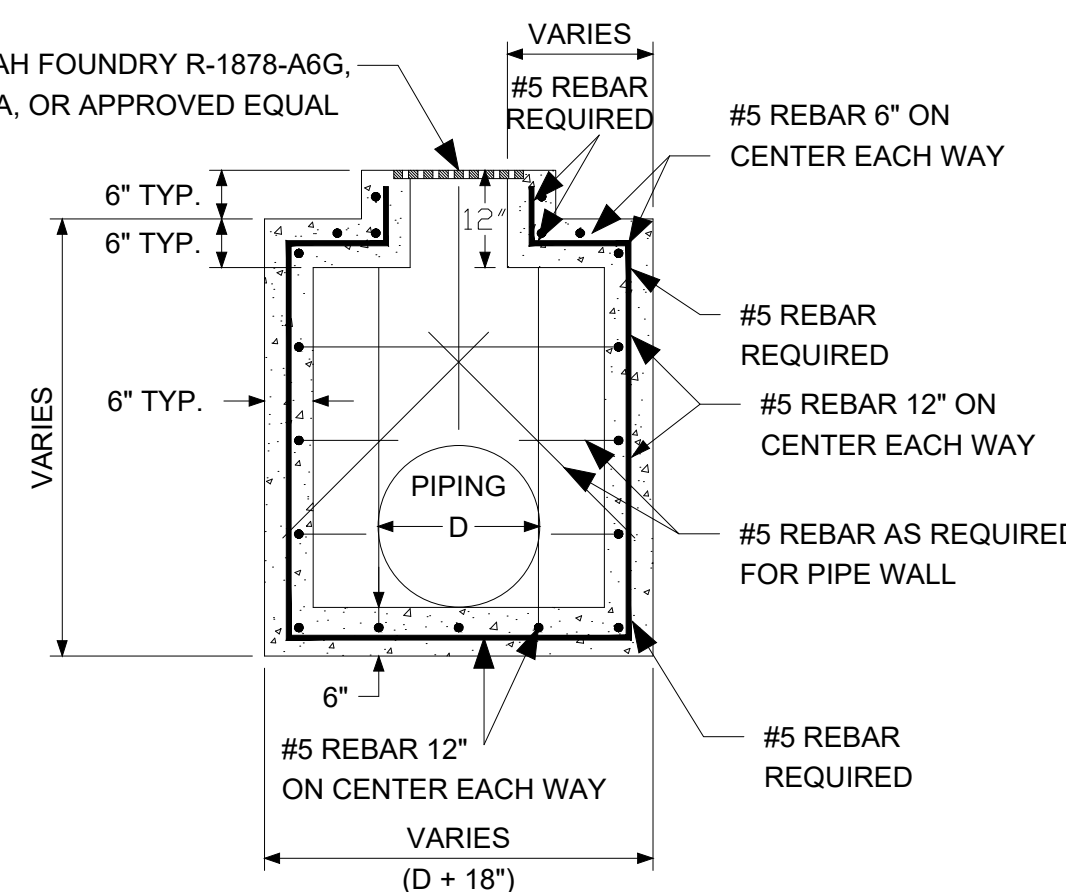
1. GRADE OUTFALL AREA SO THAT WATER WILL FLOW DOWN THE CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION FOR THE MATS WITH NO SHARP OR ABRUPT BREAKS IN THE GRADE.
2. APPLY SEED DIRECTLY TO THE PREPARED SOIL PRIOR TO FLEXAMAT INSTALLATION. USE SEED PER PROJECT SPECIFICATIONS.
3. A CONCRETE SAW SHALL BE USED TO CUT THE MAT TO EXACT SIZE AND SHAPE.

SECTION STORM SEWER OUTFALL

NOT TO SCALE

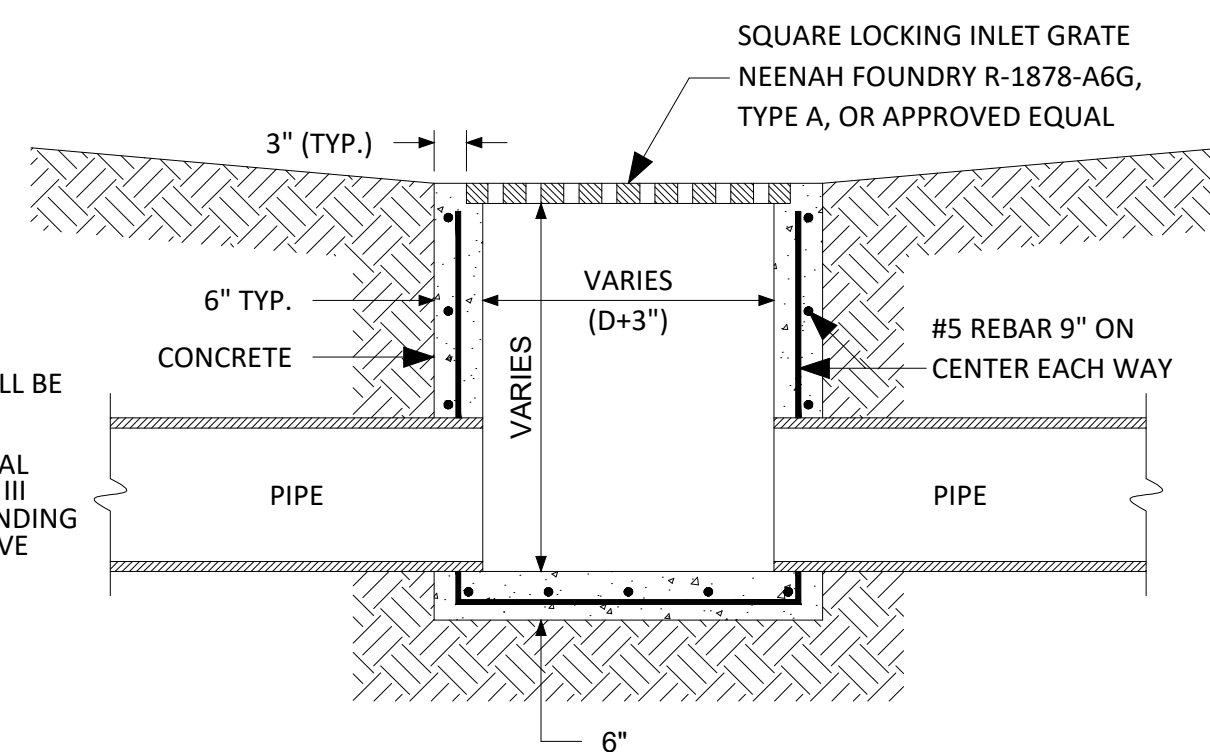
NOTES:

1. ALL REBAR TO BE GRADE 60. MILL CERTIFICATION REQUIRED ON ALL REBAR INSTALLED.
2. REBAR LAP REQUIREMENTS AND BEND REQUIREMENTS PER AMERICAN CONCRETE INSTITUTE (ACI) CODES.
3. THE "D" SHOWN ON THE DETAILS OF THIS DRAWING INDICATES THE OUTSIDE DIAMETER OR SPAN OF THE EXISTING PIPE OR THE PIPE TO BE INSTALLED AS THE PIPE INTERSECTS THE INTERIOR WALL OF THE INLET.



NOTES:

- 1) BEDDING MATERIAL SHALL BE CLASS I, II, OR III.
- 2) INITIAL BACKFILL MATERIAL SHALL BE CLASS I, II, OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE.



LEGEND

	DUPLEX RECEPTACLE, 125 VOLT, "WP" INDICATES WEATHERPROOF DUPLEX "IN-USE" RECEPTACLE, "G" INDICATES GROUND FAULT INTERRUPTER TYPE (GFCI), "1" INDICATES CIRCUIT NO.
	DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTERTOP.
	JUNCTION BOX, NEMA 4X STAINLESS STEEL.
	PANELBOARD, 600 VAC MAX, SURFACE MOUNTED. PANEL "PP-A" INDICATED. SEE PANELBOARD SCHEDULES.
	PANELBOARD, 240 VAC MAX, SURFACE MOUNTED. PANEL "RP-A" INDICATED. SEE PANELBOARD SCHEDULES.
	DISCONNECT SWITCH, FUSED OR NON-FUSED (SEE MECHANICAL EQUIPMENT SCHEDULES)
	BRANCH CIRCUIT CONCEALED BELOW GRADE. DASHES INDICATE NUMBER OF CONDUCTORS (#12 AWG UNLESS OTHERWISE INDICATED). L INDICATES TO PULL GREEN GROUNDING CONDUCTOR.
	BRANCH CIRCUIT, EXPOSED. DASHES INDICATE NUMBER OF CONDUCTORS (#12 AWG UNLESS OTHERWISE INDICATED). L INDICATES TO PULL GREEN GROUNDING CONDUCTOR.
	BRANCH CIRCUIT, CONCEALED. DASHES INDICATE NUMBER OF CONDUCTORS (#12 AWG UNLESS OTHERWISE INDICATED). L INDICATES TO PULL GREEN GROUNDING CONDUCTOR.
	HOMERUN TO PANEL, PANEL DESIGNATION, CIRCUIT NUMBER(S). NUMBER OF CIRCUITS IN ONE CONDUIT INDICATED BY NUMBER OF ARROWS. DASHES INDICATE NUMBER OF CONDUCTORS (#12 AWG UNLESS OTHERWISE INDICATED). L INDICATES TO PULL GREEN GROUNDING CONDUCTOR. SOLID, DASHED, OR DASHED-DOT LINES INDICATE CONCEALED, EXPOSED, OR CONCEALED BELOW GRADE CONDUIT AS SHOWN FOR BRANCH CIRCUITS ABOVE.
	UNDERGROUND FIBER OPTIC CABLE FOR SCADA SYSTEM
	CONTROL CIRCUIT, EXPOSED.
	CONTROL CIRCUIT, CONCEALED BELOW GRADE.
	CONTROL CIRCUIT, EXPOSED, HOMERUN TO CTU.

PB

???

2

MISCELLANEOUS

PULL BOX, ELECTRICAL POWER. SEE DETAIL ON SHEET E-501.

EQUIPMENT MARK. SEE SCHEDULES FOR ELECTRICAL CONNECTION
INFORMATION

CONDUIT AND CONDUCTOR TAG. REFER TO SCHEDULES.

APPLICABLE CODES/STANDARDS

- NATIONAL ELECTRICAL CODE (NFPA 70)

ABBREVIATIONS

ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CTU	SCADA CENTRAL TERMINAL UNIT
EX	EXISTING
FVNR	FULL VOLTAGE NON-REVERSING STARTER
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
LSIG	LONG TERM, SHORT TERM, INSTANTANEOUS, GROUND FAULT
NFDS	NON-FUSED DISCONNECT SWITCH
RTU	SCADA REMOTE TERMINAL UNIT
RVSS	REDUCED VOLTAGE SOLID STATE STARTER
SS	STAINLESS STEEL
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
WP	WEATHERPROOF

DRAWING INDEX

SHEET NO.	SHEET INDEX
E-101	ELECTRICAL LEGEND, DRAWING INDEX, & NOTES
E-201	OVERALL ELECTRICAL SITE PLAN
E-202	OVERALL SCADA SYSTEM PLAN
E-203	POWER RISER DIAGRAM
E-205	ELECTRICAL SCHEDULES
E-206	ELECTRICAL SCHEDULES
E-301	ENLARGED PLAN - HEADWORKS
E-304	ELECTRICAL DETAILS
E-305	ELECTRICAL DETAILS
E-310	ENLARGED PLAN - INFLUENT PUMP STATION
E-404	ENLARGED PLAN - CLARIFIERS
E-501	ENLARGED PLAN - FILTERS & BLOWERS
E-701	ENLARGED PLAN - UV DISINFECTION SYSTEM
E-801	ENLARGED PLAN - EFFLUENT PUMP STATION

GENERAL NOTES

- EXISTING AND PROPOSED SERVICE VOLTAGE ARE 277/480V, 3-PHASE, 4-WIRE.
- ALL WORK SHOWN ON THESE DRAWINGS IS DIAGRAMMATIC. CONTRACTOR SHALL
COORDINATE HIS WORK WITH OTHER TRADES. VERIFY ALL EQUIPMENT LOCATIONS
BEFORE COMMENCING WORK. COORDINATE ALL WORK WITH PROJECT DRAWINGS.
- WORKING SPACES SHALL NOT BE LESS THAN SPECIFIED PER NFPA 70 FOR ALL VOLTAGES
SPECIFIED.
- WIRE AND CONDUIT SIZES AND QUANTITIES FOR FEEDERS AND BRANCH CIRCUITS WHICH
ARE SHOWN ON THE POWER RISER DIAGRAM APPLY TO PLAN SHEETS.
- CONDUIT HOMERUNS NOT MARKED SHALL BE CONSIDERED 2#12 & 1#12 GROUND IN 3/4"
MINIMUM CONDUIT.
- ALL 20 AMPERE, SINGLE POLE CIRCUITS SHALL BE PROVIDED WITH SEPARATE FULL SIZE
NEUTRAL.
- ALL CONDUITS SHALL BE PROVIDED WITH AN EQUIPMENT GROUNDING CONDUCTOR SIZED
PER NFPA 70.
- ALL CONDUITS PASSING THROUGH CONCRETE FLOORS OR WALLS BELOW GRADE SHALL
BE INSTALLED WITH CABLE SEAL FITTINGS.
- CONTRACTOR SHALL COORDINATE MOUNTING EQUIPMENT MOUNTING SUPPORTS AND
ELEVATIONS WITH EQUIPMENT FURNISHED.
- EQUIPMENT LOCATIONS SHALL BE AS CLOSE AS PRACTICAL TO LOCATIONS SHOWN ON
THE DRAWINGS. EXACT STUBOUT LOCATIONS SHALL BE DETERMINED BY CONTRACTOR
BASED ON THE EQUIPMENT MANUFACTURER'S CERTIFIED DRAWINGS OF THE RESPECTIVE
EQUIPMENT. CONDUITS SHALL BE PLACED AS REQUIRED BY EQUIPMENT DRAWINGS.
- CONTRACTOR SHALL FURNISH, INSTALL, AND SIZE ALL SLEEVES, HOLES, CORES,
PATCHING, SLOTS, ANCHORS, BRACKETS, SUPPORTS, JUNCTION BOXES, PULL BOXES AND
OTHER APPURTENANCES NECESSARY TO EXECUTE THE WORK/ SOME OF THESE ITEMS
MAY BE SHOWN ON THE DRAWINGS FOR CLARITY OR DESIGN PREFERENCE.
- THE NUMBER, SIZE AND TYPE OF POWER AND CONTROL CONDUCTORS AND CABLES
SHOWN ON THESE DRAWINGS ARE BASED ON DESIGN CRITERIA. THE CONTRACTOR SHALL
MAKE ADJUSTMENTS WHERE NECESSARY TO REFLECT THE REQUIREMENTS OF THE
ACTUAL EQUIPMENT TO BE INSTALLED PER APPROVED EQUIPMENT SHOP DRAWINGS.
- SEAL CONDUITS, INCLUDING SPARE CONDUITS AT BUILDING ENTRANCES AND AT
OUTDOOR TERMINATIONS FOR EQUIPMENT AND COOLER ENTRANCES WITH A SUITABLE
COMPOUND TO PREVENT THE ENTRANCE OF MOISTURE AND GASES.
- PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL
EXISTING UNDERGROUND UTILITIES AND STRUCTURES. OBTAIN LOCATION DRAWINGS AND
OTHER ASSISTANCE FROM THE VARIOUS LOCAL UTILITY DEPARTMENTS AND OTHER
APPLICABLE AGENCIES, AND MAKE OTHER INVESTIGATIONS AS REQUIRED TO
ACCOMPLISH THIS.
- UNDERGROUND CONDUITS SHALL NOT BE INSTALLED LESS THAN 36" BELOW FINISHED
GRADE. GREATER DEPTHS SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS.



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Burle Proj. No.:
08194-1-0122

File Name:
E-101 ELECTRICAL LEGEND,
NOTES, INDEX.DWG

Date: 04/29/2024

Scale: AS SHOWN

Drawn by: JWB

Checked: JWB

Revisions:

Revisions:

Revisions:



ELECTRICAL
LEGEND, DRAWING
INDEX, AND NOTES

E-101

Drawing Number

1. REFER TO SHEET E-202 FOR SCADA SYSTEM PLAN.
2. REFER TO SHEETS E-301, E-401, E-501, E-701, & E-801 FOR ENLARGED PLANS.
3. REFER TO SHEET E-501 FOR DUCTBANK AND ELECTRICAL DETAILS.
4. REFER TO SHEET E-203 & E-303 FOR POWER RISER DIAGRAMS.
5. REFER TO SPECIFICATIONS FOR CONDUIT AND CONDUCTOR REQUIREMENTS.

- 1 REMOVE EXISTING AERATOR CONTROL PANEL INCLUDING FEEDER CONDUCTORS BACK TO SOURCE. CUT, CAP BELOW GRADE, AND ABANDON CONDUIT IN PLACE AT CONTROL PANEL AND AT SOURCE.
- 2 RELOCATE AERATORS FROM EXISTING LOCATION TO PROPOSED LOCATION AS INDICATED. PROVIDE NEW CONTROL PANEL "CP-AER" AT LOCATION INDICATED. PROVIDE FEEDERS AND SHORE MOUNTED DISCONNECTS PER EQUIPMENT SCHEDULE.
- 3 REMOVE EXISTING SERVICE CONDUCTORS ONCE NEW SERVICE IS INSTALLED AND NEW FEEDER TO EXISTING PANEL "DPA" IS INSTALLED. CUT, CAP BELOW GRADE, AND ABANDON CONDUIT IN PLACE AT EXISTING PANEL "DPA" AND AT EXISTING POWER COMPANY TRANSFORMER SERVICE POLE. COORDINATE POWER OUTAGES FOR TRANSFER TO NEW SERVICE WITH OWNER'S REPRESENTATIVES AND THE POWER COMPANY.
- 4 REMOVE EXISTING AUTOMATIC TRANSFER SWITCH "ATS-DPA". REMOVE EXISTING FEEDER AND CONTROL CONDUCTORS FROM "ATS-DPA" TO EXISTING GENERATOR. CUT, CAP BELOW GRADE, AND ABANDON CONDUIT IN PLACE AT "ATS-DPA" AND AT EXISTING GENERATOR.
- 5 REMOVE EXISTING GENERATOR. MODIFY AND EXTEND PAD TO RECEIVE NEW GENERATOR "A", FEEDER, CONTROL CONDUITS, AND BLOCK HEATER & BATTERY CHARGER BRANCH CIRCUITS. REFER TO SHEET E-304 FOR TYPICAL GENERATOR PAD FOUNDATION REQUIREMENTS.
- 6 COORDINATE RISER CONDUITS AND CONDUCTOR REQUIREMENTS WITH POWER COMPANY PRIOR TO ROUGH-IN. VERIFY LOCATION OF TRANSFORMER SERVICE POLE WITH POWER COMPANY.
- 7 PROVIDE NEW BULLHORN (TWO IN-LINE TYPE) BRACKET MOUNTED ON EXISTING GALVANIZED POLE. BRACKET SHALL BE SIMILAR TO EXISTING BRACKETS. VERIFY TENON FOR ATTACHMENT TO EXISTING POLE. TYPICAL BULLHORN BRACKET SHALL BE LITHONIA #BS28-T35-TD20-GALV.
- 8 UNDERGROUND FEEDER FOR PANEL "DPB" AT HEADWORKS. REFER TO SHEET E-203 FOR CONDUIT AND WIRE SCHEDULE.
- 9 PROVIDE SEPARATE COMMUNICATIONS PULL BOX AT LOCATIONS INDICATED.



REFER TO SHEET E-404
ENLARGED PLAN -
CLARIFIERS

REFER TO SHEET E-501
ENLARGED PLAN - FILTERS

REFER TO SHEET
ENLARGED PLAN -
UV DISINFECTION

— REFER TO SHEET E-801
ENLARGED PLAN -
EFFLUENT PUMP STATION

OVERALL ELECTRICAL SITE PLAN

SCALE: 1"=20'



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urle Proj. No.:
08194-1-0122

File Name:
001 OVERALL ELECTRICAL SITE PLAN -
ADDENDUM (6-18-2024).DWG

ate: 04/29/2024

scale: AS SHOWN

Drawn by: JWB

checked: JWB

Revisions:
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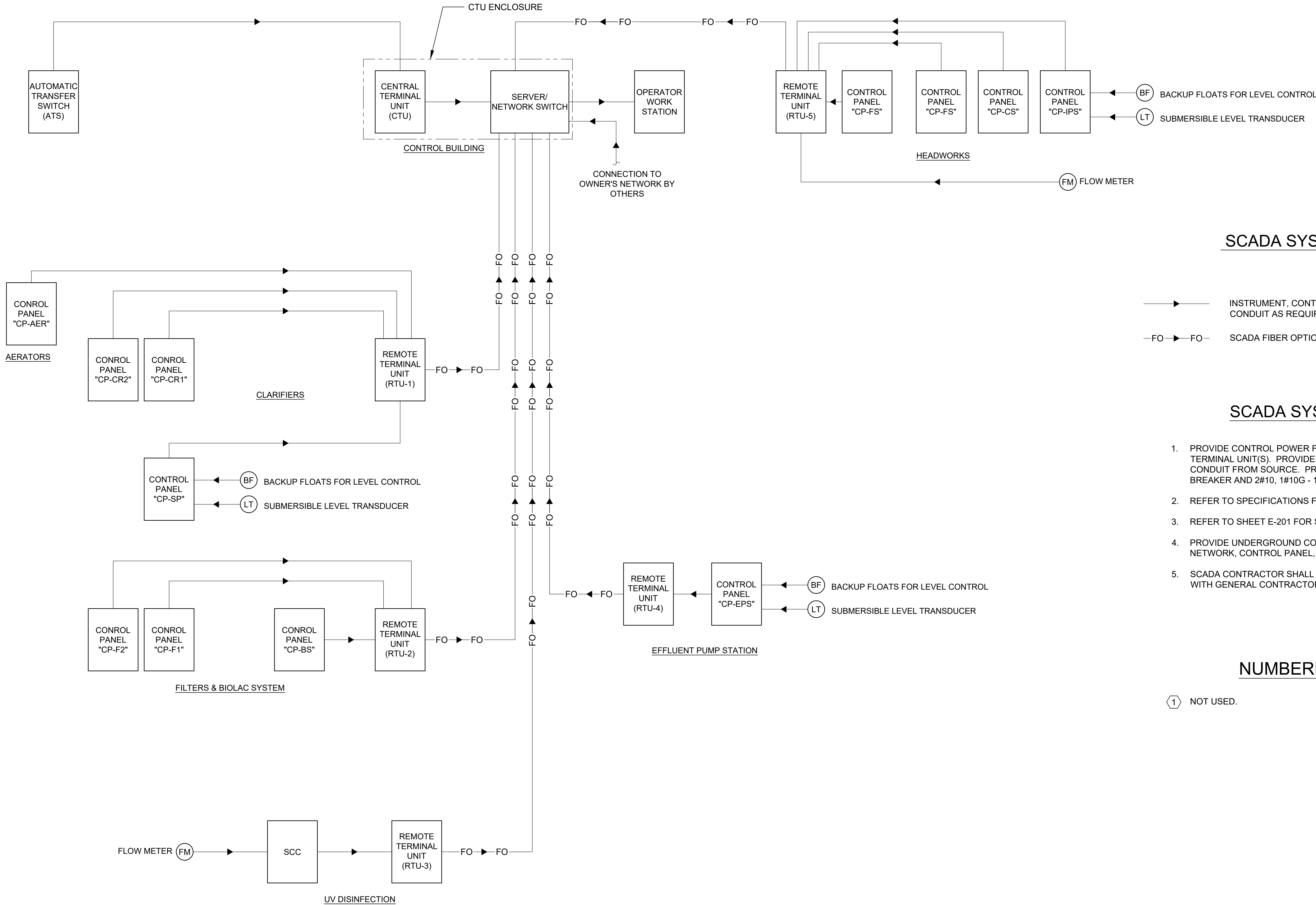
Revisions:

revisions:

OVERALL
ELECTRICAL
SITE PLAN

-201

Drawing Number



OVERALL SCADA SYSTEM PLAN
SCALE: NONE

SCADA SYSTEM LEGEND

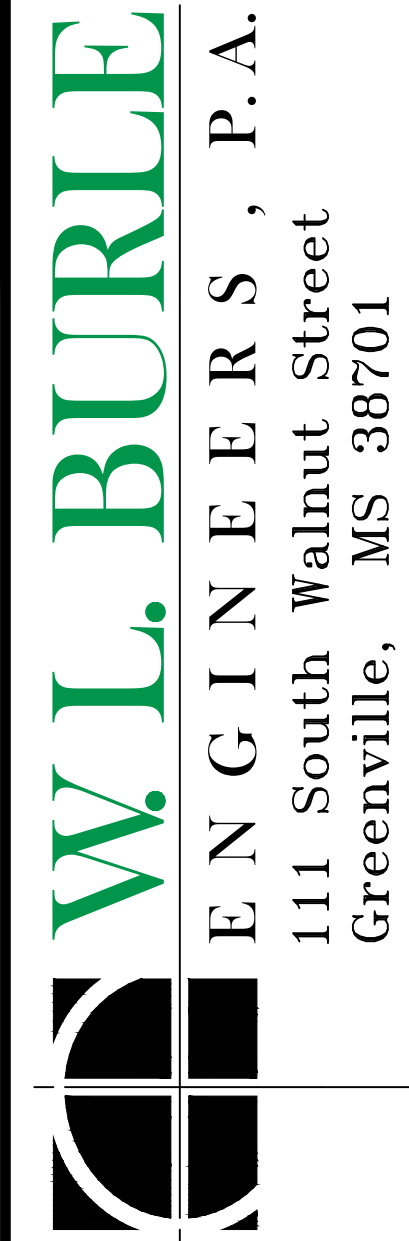
- INSTRUMENT, CONTROLS, OR COMMUNICATIONS CABLING IN CONDUIT AS REQUIRED.
- SCADA FIBER OPTIC COMMUNICATIONS CABLE.

SCADA SYSTEM NOTES

- PROVIDE CONTROL POWER FOR CENTRAL TERMINAL UNIT AND REMOTE TERMINAL UNIT(S). PROVIDE CIRCUIT BREAKERS, CONDUCTORS, AND CONDUIT FROM SOURCE. PROVIDE A MINIMUM 20 AMP, 1-POLE CIRCUIT BREAKER AND 2#10, 1#10G - 1"C. FOR EACH BRANCH CIRCUIT.
- REFER TO SPECIFICATIONS FOR SCADA SYSTEM REQUIREMENTS.
- REFER TO SHEET E-201 FOR SCADA SYSTEM OVERALL PLAN.
- PROVIDE UNDERGROUND CONDUIT AND CABLING FOR ALL SCADA SYSTEM NETWORK, CONTROL PANEL, AND INSTRUMENT CONNECTIONS.
- SCADA CONTRACTOR SHALL COORDINATE ROUTING OF ALL SITE CONDUITS WITH GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR.

NUMBERED NOTES

- 1 NOT USED.



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Burle Proj. No.:	08194-1-0122
File Name:	E-202 OVERALL SCADA SYSTEM PLAN.DWG
Date:	04/29/2024
Scale:	AS SHOWN
Drawn by:	JWB
Checked:	JWB
Revisions:	

Revisions:

Revisions:

OVERALL SCADA
SYSTEM PLAN

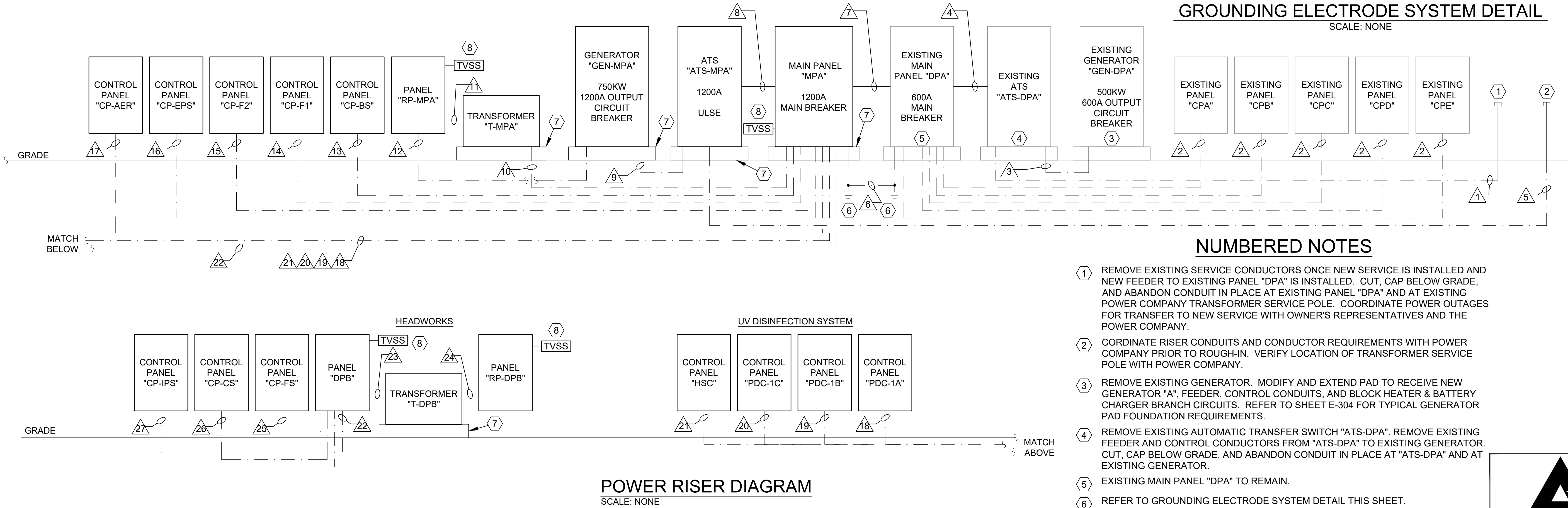
E-202
Drawing Number

CONDUIT AND WIRE SCHEDULE - POWER RISER DIAGRAM					
TAG NO.	CONDUCTORS	CONDUIT	FROM	TO	NOTES
1	EXISTING 2 RUNS EACH OF 3#350, 1#1/0 N TO BE REMOVED	(2) 3"	EXISTING TRANSFORMER SERVICE POLE	EXISTING "ATS-DPA"	
2	EXISTING FEEDERS TO REMAIN	(5) 1-2"	EXISTING MAIN PANEL "DPA"	EXISTING CONTROL PANELS "CPA", "CPB", "CPC", "CPD", & "CPE"	
3	EXISTING 2 RUNS EACH OF 3#350, 1#1/0 N TO BE REMOVED	(2) 3"	EXISTING "ATS-DPA"	EXISTING GENERATOR "DPA"	
4	EXISTING 2 RUNS EACH OF 3#350, 1#1/0 N TO BE REMOVED	(2) 3"	EXISTING "ATS-DPA"	EXISTING MAIN PANEL "DPA"	
5	4 RUNS EACH OF 4#500	(4) 4"	EXISTING TRANSFORMER SERVICE POLE	"ATS-MPA"	
6	#2/0G	1"	MAIN PANEL "MPA" SYSTEM GROUND	EXISTING MAIN PANEL "DPA" SYSTEM GROUND	
7	2 RUNS EACH OF 4#350, 1#2G	(2) 3"	MAIN PANEL "MPA"	EXISTING PANEL "DPA"	
8	4 RUNS EACH OF 4#500, 1#4/0G	(4) 4"	"ATS-MPA"	MAIN PANEL "MPA"	
9	4 RUNS EACH OF 4#500, 1#4/0G & GENERATOR CONTROL CONDUCTORS	(4) 4" (2) 1"	"ATS-MPA"	GENERATOR "GEN-MPA"	
10	3#1/0, 1#6G	1 1/2"	MAIN PANEL "MPA"	TRANSFORMER "T-MPA"	150A
11	4#250, 1#4G	2 1/2"	TRANSFORMER "T-MPA"	PANEL "RP-MPA"	
12	TWO SETS OF 2#10, 1#10G	(2) 1"	PANEL "RP-MPA"	GENERATOR "GEN-MPA" BLOCK HEATER & BATTERY CHARGER CKTS	
13	2 RUNS EACH OF 4#350, 1#2G	(2) 3"	MAIN PANEL "MPA"	CONTROL PANEL "CP-BS"	600A
14	3#10, 1#10G	1"	MAIN PANEL "MPA"	CONTROL PANEL "CP-F1"	20A
15	3#10, 1#10G	1"	MAIN PANEL "MPA"	CONTROL PANEL "CP-F2"	20A

GENERAL NOTES:

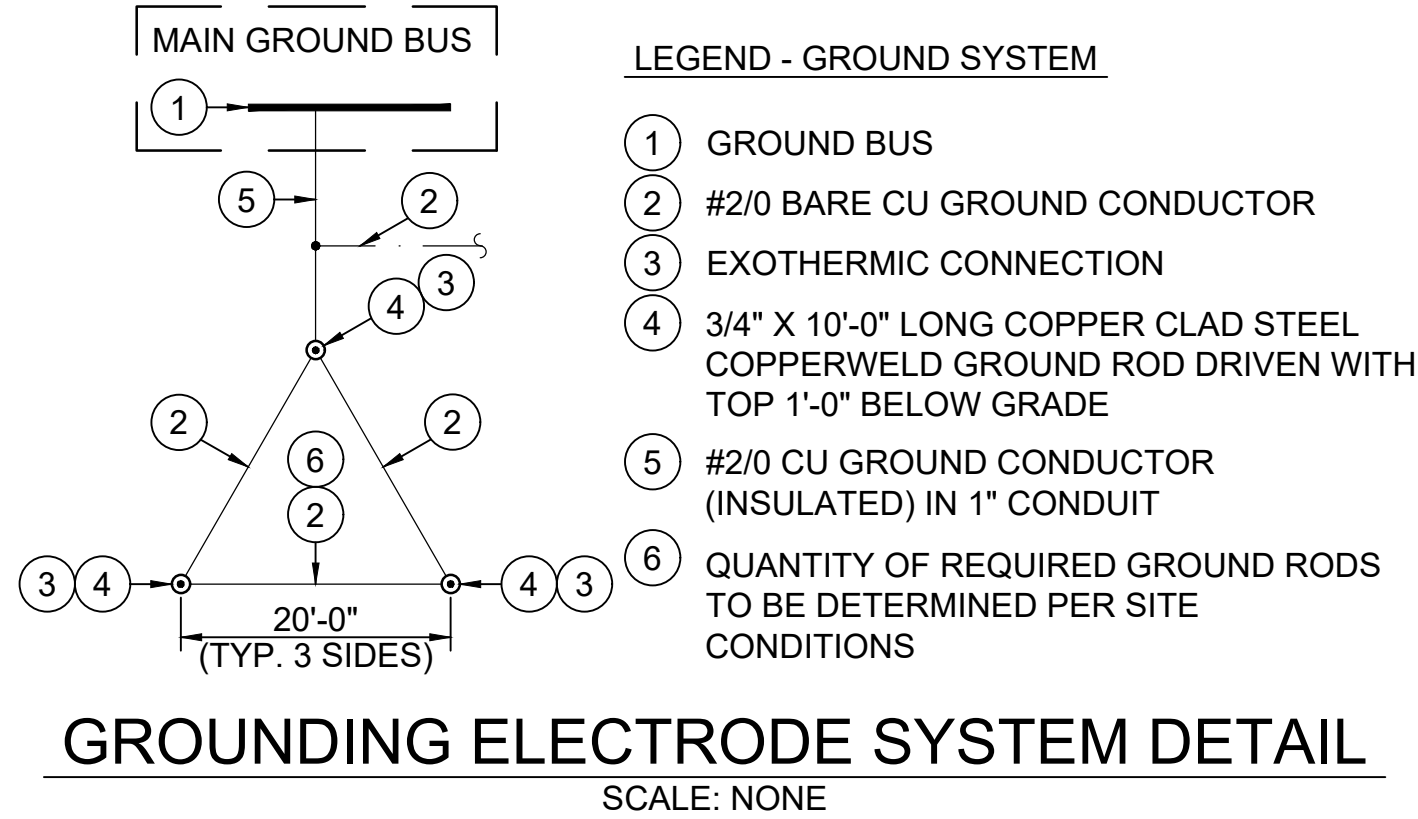
- REFER TO SHEET E-100 FOR OVERALL ELECTRICAL SITE PLAN.
- REFER TO SHEET E-301, E-404, E-501, & E-701 FOR ENLARGED PLANS.
- REFER TO SHEET E-205 FOR MECHANICAL EQUIPMENT SCHEDULE.
- REFER TO SHEET E-206 FOR PANELBOARD SCHEDULES.

TRANSFORMER SCHEDULE						
MARK	SIZE	PRIMARY VOLTAGE	SECONDARY VOLTAGE	PHASE	k RATING	NOTES
T-MPA	75 KVA	480V	120/208	3	13	NEMA 3R
T-DPB	15 KVA	480V	120/208	3	13	NEMA 3R



POWER RISER DIAGRAM
SCALE: NONE

CONDUIT AND WIRE SCHEDULE - POWER RISER DIAGRAM					
TAG NO.	CONDUCTORS	CONDUIT	FROM	TO	NOTES
16	3#250, 1#4G	2 1/2"	MAIN PANEL "MPA"	EFFLUENT PUMP STATION "CP-EPS"	250A
17	3#8, 1#10G	1"	MAIN PANEL "MPA"	AERATOR CONTROL PANEL "CP-AER"	40A 2-7.5HP
18	4#10, 1#10G	1"	MAIN PANEL "MPA"	UV SYSTEM "PDC-1A"	20A (8A)
19	4#10, 1#10G	1"	MAIN PANEL "MPA"	UV SYSTEM "PDC-1B"	20A (8A)
20	4#10, 1#10G	1"	MAIN PANEL "MPA"	UV SYSTEM "PDC-1C"	20A (8A)
21	4#10, 1#10G	1"	MAIN PANEL "MPA"	UV "HSC"	15A (3A)
22	4#500, 1#2G	4"	MAIN PANEL "MPA"	PANEL "DPB"	200A
23	3#10, 1#10G	1"	PANEL "DPB"	TRANSFORMER "T-DPB"	30A
24	4#6, 1#10G	1"	TRANSFORMER "T-DPB"	PANEL "RP-DPB"	
25	4#6, 1#10G	1"	PANEL "RP-DPB"	CONTROL PANEL "FS"	60A
26	4#10, 1#10G	1"	PANEL "RP-DPB"	CONTROL PANEL "CS"	30A
27	4#4, 1#8G	1 1/2"	PANEL "RP-DPB"	CONTROL PANEL "IPS"	80A 3-15HP



- NUMBERED NOTES
- REMOVE EXISTING SERVICE CONDUCTORS ONCE NEW SERVICE IS INSTALLED AND NEW FEEDER TO EXISTING PANEL "DPA" IS INSTALLED. CUT, CAP BELOW GRADE, AND ABANDON CONDUIT IN PLACE AT EXISTING PANEL "DPA" AND AT EXISTING POWER COMPANY TRANSFORMER SERVICE POLE. COORDINATE POWER OUTAGES FOR TRANSFER TO NEW SERVICE WITH OWNER'S REPRESENTATIVES AND THE POWER COMPANY.
 - CORDINATE RISER CONDUITS AND CONDUCTOR REQUIREMENTS WITH POWER COMPANY PRIOR TO ROUGH-IN. VERIFY LOCATION OF TRANSFORMER SERVICE POLE WITH POWER COMPANY.
 - REMOVE EXISTING GENERATOR. MODIFY AND EXTEND PAD TO RECEIVE NEW GENERATOR "A", FEEDER, CONTROL CONDUITS, AND BLOCK HEATER & BATTERY CHARGER BRANCH CIRCUITS. REFER TO SHEET E-304 FOR TYPICAL GENERATOR PAD FOUNDATION REQUIREMENTS.
 - REMOVE EXISTING AUTOMATIC TRANSFER SWITCH "ATS-DPA". REMOVE EXISTING FEEDER AND CONTROL CONDUCTORS FROM "ATS-DPA" TO EXISTING GENERATOR. CUT, CAP BELOW GRADE, AND ABANDON CONDUIT IN PLACE AT "ATS-DPA" AND AT EXISTING GENERATOR.
 - EXISTING MAIN PANEL "DPA" TO REMAIN.
 - REFER TO GROUNDING ELECTRODE SYSTEM DETAIL THIS SHEET.
 - PROVIDE CONCRETE PAD.
 - CONNECT "TVSS" WITH A MINIMUM OF 4#10, 1#10G - 3/4"C. REFER TO MANUFACTURER'S RECOMMENDATIONS.



W. L. BURLE

ENGINEERS, P.A.

111 South Walnut Street
Greenville, MS 38701

JOSEPH W. BOWEN

REGISTERED PROFESSIONAL ENGINEER

25322

STATE OF MISSISSIPPI

04/29/2024

GS#323-024 ARPA INFR. - WASTE
CENT. TREATMENT

SOUTH MISSISSIPPI CORRECTIONAL INSTITUTE
LEAKESVILLE, MISSISSIPPI

Burle Proj. No.:
08194-1-0122

File Name:
E-203 POWER RISER
DIAGRAM.DWG

Date: 04/29/2024

Scale: AS SHOWN

Drawn by: JWB

Checked: JWB

Revisions:

Revisions:

Revisions:

POWER RISER
DIAGRAM -
MAIN PLANT

E-203

Drawing Number

LIGHTING FIXTURE SCHEDULE											
MARK	DESCRIPTION	BASIS OF DESIGN PRODUCT(S)		VOLTAGE	LAMP DATA			MOUNTING LOCATION	MOUNTING TYPE	MOUNTING HEIGHT	REMARKS
		MANUFACTURER	CATALOG NUMBER		QTY PER LUMINAIRE	WATTAGE	TYPE				
LVT	LED, VAPORTIGHT STRIP, SURFACE MOUNTED, 4' L, 4900 LUMENS, 4000K. WET LOCATION LISTED. POLYCARBONATE HOUSING & LENS.	LITHONIA	CSV-T-L48-5000LM-MVOLT-40K-80CRI-WLFEND2	120/277	1	42	LED	CEILING	SURFACE	AT CEILING	
LW	LED, WALL PACK, DIE CAST ALUMINUM HOUSING, TEMPERED GLASS LENS, MSU DARK BRONZE FINISH, INTEGRAL PHOTOCELL, WET LOCATION LISTED.	LITHONIA	TWX2-LED-P4-40K-MVOLT-PE-DDBTXD	120/277	1	54	LED	EXTERIOR WALL	SURFACE	10'-0" AFG	
⊗	LED, EXIT SIGN, THERMOPLASTIC HOUSING, UNIVERSAL MOUNT, RED LETTERS, DOUBLE FACED, SELF DIAGNOSTICS.	LITHONIA	LQM-S-W-R-120/277-M6	120/277	FURNISH WITH FIXTURE		LED	CEILING/ WALL	SURFACE	6'8" TO BOTTOM OR JUST ABOVE DOOR	PROVIDE DIRECTIONAL ARROWS & MOUNT AS REQUIRED
PL □ EX	LED, FLOOD TYPE POLE LIGHT, 14K LUMENS, INTEGRAL PHOTOCELL, WET LOCATION LISTED, GALVANIZED BULLHORN BRACKET AS REQUIRED, ON EXISTING POLE.	LITHONIA	FIXTURE: RSXF1-LED-P3-40K-WFL-MVOLT-IS BRACKET: BS28-T35-TD20-GALV	120/277	1	109	LED	EXISTING POLE	BRACKET	30'-0" AFG	PROVIDE NEW BULLHORN BRACKET AS REQUIRED. LITHONIA #BS28-T35-TD20-GALV.
PLP □ PLP	LED, FLOOD TYPE POLE LIGHT (TWO PER POLE), 14K LUMENS, INTEGRAL PHOTOCELL, WET LOCATION LISTED, GALVANIZED BULLHORN BRACKET, ROUND STRAIGHT STEEL GALVANIZED POLE.	LITHONIA	FIXTURE: RSXF1-LED-P3-40K-WFL -MVOLT-IS-PER7 POLE: HOLOPHANE-FRSS-30-50B-F06-HG BRACKET: BS28-T35-TD20-GALV	120/277	1	109	LED	POLE	BRACKET	32'-6" AFG	REFER TO FOUNDATION DETAIL ON SHEET E-305.

MECHANICAL EQUIPMENT SCHEDULE							
MARK	PHASE	WIRE	VOLTAGE	DISCONNECT	BRANCH CIRCUIT WIRING	SOURCE	NOTES
HEADWORKS							
FINE SCREEN (SCREEN DRIVE, COMPACTOR DRIVE, BRUSH DRIVE)							
FSD-1	3	3	480	WITH CONTROL PANEL "CP-FS"	3#12, 1#12G - 3/4"C.	CP-FS	1, 2
FSD-2	3	3	480	WITH CONTROL PANEL "CP-FS"	3#12, 1#12G - 3/4"C.	CP-FS	1, 2
FCD-1	3	3	480	WITH CONTROL PANEL "CP-FS"	3#12, 1#12G - 3/4"C.	CP-FS	1, 2
FCD-2	3	3	480	WITH CONTROL PANEL "CP-FS"	3#12, 1#12G - 3/4"C.	CP-FS	1, 2
FBD-1	3	3	480	WITH CONTROL PANEL "CP-FS"	3#12, 1#12G - 3/4"C.	CP-FS	1, 2
FBD-2	3	3	480	WITH CONTROL PANEL "CP-FS"	3#12, 1#12G - 3/4"C.	CP-FS	1, 2
COARSE SCREEN (SCREEN DRIVE, COMPACTOR DRIVE)							
CSD-1	3	3	480	WITH CONTROL PANEL "CP-CS"	3#12, 1#12G - 3/4"C.	CP-CS	1, 2
CSD-2	3	3	480	WITH CONTROL PANEL "CP-CS"	3#12, 1#12G - 3/4"C.	CP-CS	1, 2
CCD-1	3	3	480	WITH CONTROL PANEL "CP-CS"	3#12, 1#12G - 3/4"C.	CP-CS	1, 2
CCD-2	3	3	480	WITH CONTROL PANEL "CP-CS"	3#12, 1#12G - 3/4"C.	CP-CS	1, 2
SODA ASH METERING PUMP							
SA-1	1	2	120	RECEPTACLE "IN-USE" WP	2#12, 1#12G - 3/4"C.	RP-DPB	1, 2
FILTERS (DRIVES, BACKWASH PUMPS, AUTOMATIC VALVES, SUMP PUMP)							
FD-1	3	3	480	INTEGRAL WITH CONTROL PANEL	3#10, 1#10G - 3/4"C	CP-F1	1, 2
FD-2	3	3	480	INTEGRAL WITH CONTROL PANEL	3#10, 1#10G - 3/4"C	CP-F2	1, 2
FBP-1	3	3	480	INTEGRAL WITH CONTROL PANEL	3#10, 1#10G - 3/4"C	CP-F1	1, 2
FBP-2	3	3	480	INTEGRAL WITH CONTROL PANEL	3#10, 1#10G - 3/4"C	CP-F2	1, 2
AV-1A	1	2	120	INTEGRAL WITH CONTROL PANEL	2#12, 1#12G - 3/4"C.	CP-F1	1, 2
AV-1B	1	2	120	INTEGRAL WITH CONTROL PANEL	2#12, 1#12G - 3/4"C.	CP-F1	1, 2
AV-2A	1	2	120	INTEGRAL WITH CONTROL PANEL	2#12, 1#12G - 3/4"C.	CP-F2	1, 2
AV-2B	1	2	120	INTEGRAL WITH CONTROL PANEL	2#12, 1#12G - 3/4"C.	CP-F2	1, 2
SP-1	1	2	120	RECEPTACLE "IN-USE" WP	2#10, 1#10G - 3/4"C.	RP-MPA	1, 2
BIOLAC SYSTEM							
B-1	3	3	480	NFDS, 200A, 3-POLE, NEMA 4X SS	3#2, 1#6G - 1 1/2"C.	CP-BS	1, 2
B-1	3	3	480	NFDS, 200A, 3-POLE, NEMA 4X SS	3#2, 1#6G - 1 1/2"C.	CP-BS	1, 2
B-3	3	3	480	NFDS, 200A, 3-POLE, NEMA 4X SS	3#2, 1#6G - 1 1/2"C.	CP-BS	1, 2
AIR CONDITION UNITS							
AC-S1	1	2	208	NFDS, 30A, 2-POLE, NEMA 4X SS	2#10, 1#10G - 1"C.	RP-DPB	1, 2
AC-F1 THRU F4	1	2	208	NFDS, 30A, 2-POLE, NEMA 4X SS	2#8, 1#10G - 1"C.	RP-MPA	1, 2
AC-UV1 THRU UV4	1	2	208	NFDS, 30A, 2-POLE, NEMA 4X SS	2#8, 1#10G - 1"C.	RP-MPA	1, 2
BRIDGE CRANE							
BC-1	1	2	120	NFDS, 30A, 2-POLE, NEMA 4X SS	2#10, 1#10G - 3/4"C.	RP-MPA	1, 2
BC-2	1	2	120	NFDS, 30A, 2-POLE, NEMA 4X SS	2#10, 1#10G - 3/4"C.	RP-MPA	1, 2
UV DISINFECTION SYSTEM							
LCP-1			24VDC	N/A	AS REQUIRED BY UV SYSTEM SUPPLIER	PDC-1A, 1B	1, 2
LLS-1			24VDC	N/A	AS REQUIRED BY UV SYSTEM SUPPLIER	LCP	1, 2
FLOW METER							
FM-1	1	2	120	N/A	2#10, 1#10G - 3/4"C.	RP-MPA	1, 2, 3
FM-1			4-20mA		INSTRUMENT CABLE	RTU-3 & UV SCC	1, 2, 3
FM-2	1	2	120	N/A	2#10, 1#10G - 3/4"C.	RP-DPB	1, 2, 3
FM-2			4-20mA		INSTRUMENT CABLE	RTU-5 & SA-1	1, 2, 3
FM-3	1	2	120	N/A	2#10, 1#10G - 3/4"C.	RP-MPA	1, 2, 3
FM-3			4-20mA		INSTRUMENT CABLE	RTU-1 & CP-BS	1, 2, 3
FM-4	1	2	120	N/A	2#10, 1#10G - 3/4"C.	RP-MPA	1, 2, 3
FM-4			4-20mA		INSTRUMENT CABLE	RTU-1 & CP-BS	1, 2, 3

EQUIPMENT SCHEDULE NOTES:
1. VERIFY LOCATION AND REQUIREMENTS WITH C SHEETS.
2. COORDINATE REQUIREMENTS WITH SYSTEM SUPPLIER(S).
3. VERIFY POWER SUPPLY FOR FLOW METER. VERIFY ROUTING OF 4-20mA ANALOG INPUT WITH EQUIPMENT AND SCADA SYSTEM SUPPLIERS.

CONTROL PANEL POWER SCHEDULE									
MARK	PHASE	WIRE	VOLTAGE	DISCONNECT	TAG NO.	BRANCH CIRCUIT WIRING	FED FROM	NOTES	
FINE SCREEN									
CP-FS	3	3	480	INTEGRAL WITH CONTROL PANEL		AS SHOWN ON E-203	DPB		
COARSE SCREEN									
CP-CS	3	3	480	INTEGRAL WITH CONTROL PANEL		AS SHOWN ON E-203	DPB		
INFLUENT PUMP STATION									
CP-IPS	3	3	480	INTEGRAL WITH CONTROL PANEL		AS SHOWN ON E-203	DPB		
AERATORS									
CP-AER	3	3	480	INTEGRAL WITH CONTROL PANEL		AS SHOWN ON E-203	MPA		
CLARIFIERS (SCUM PUMP, RAKES) FED FROM CONTROL PANEL "BS" FOR BIOLAC SYSTEM									
CP-SP	3	3	480	INTEGRAL WITH CONTROL PANEL		3#10, 1#10G - 3/4"C	CP-BS		
CP-CR1	3	3	480	INTEGRAL WITH CONTROL PANEL		3#10, 1#10G - 3/4"C	CP-BS		
CP-CR2	3	3	480	INTEGRAL WITH CONTROL PANEL		3#10, 1#10G - 3/4"C	CP-BS		
FILTERS (DRIVES, BACKWASH PUMPS, AUTOMATIC VALVES)									
CP-F1	3	3	480	INTEGRAL WITH CONTROL PANEL		AS SHOWN ON E-203	MPA		
CP-F2	3	3	480	INTEGRAL WITH CONTROL PANEL		AS SHOWN ON E-203	MPA		
BIOLAC SYSTEM									
CP-BS	3	3	480	INTEGRAL WITH CONTROL PANEL		AS SHOWN ON E-203	MPA		
UV DISINFECTION SYSTEM (SYSTEM CONTROL CENTER, POWER DISTRIBUTION CENTER, HYDRAULIC SYSTEM CENTER)									
SCC-1	1	2	120	INTEGRAL WITH CONTROL PANEL		2#10, 1#10G - 3/4"C.	RP-MPA		
PDC-1A	3	3	277/480	INTEGRAL WITH CONTROL PANEL		AS SHOWN ON E-203	MPA		
PDC-1B	3	3	277/480	INTEGRAL WITH CONTROL PANEL		AS SHOWN ON E-203	MPA		
PDC-1C	3	3	277/480	INTEGRAL WITH CONTROL PANEL		AS SHOWN ON E-203	MPA		
HSC-1	3	3	480	INTEGRAL WITH CONTROL PANEL		AS SHOWN ON E-203	MPA		
SCADA SYSTEM (CENTRAL TERMINAL UNIT & REMOTE TERMINAL UNITS)									
CTU	1	2	120	INTEGRAL WITH CONTROL PANEL		2#10, 1#10G - 3/4"C.	CONTROL BLDG REC.		
RTU-1	1	2	120	INTEGRAL WITH CONTROL PANEL		2#10, 1#10G - 3/4"C.	RP-MPA	NEMA 4X SS	
RTU-2	1	2	120	INTEGRAL WITH CONTROL PANEL		2#10, 1#10G - 3/4"C.	RP-MPA	NEMA 4X SS	
RTU-3	1	2	120	INTEGRAL WITH CONTROL PANEL		2#10, 1#10G - 3/4"C.	RP-MPA	NEMA 4X SS	
RTU-4	1	2	120	INTEGRAL WITH CONTROL PANEL		2#10, 1#10G - 3/4"C.	RP-MPA	NEMA 4X SS	
RTU-5	1	2	120	INTEGRAL WITH CONTROL PANEL		2#10, 1#10G - 3/4"C.	RP-DPB	NEMA 4X SS	

ELECTRICAL OPERATED VALVE SCHEDULE			
MARK	BRANCH CIRCUIT & CONTROL WIRING	SOURCE	NOTES
AIR LIFT CONTROL VALVE			
ACV-1 THRU ACV-4	6#16, 1#16G - 1"C.	CP-BS	1, 2
SCUM CONTROL VALVE			
SCV-1 THRU SCV-2	6#16, 1#16G - 1"C.	CP-BS	1, 2
WAS CONTROL VALVE			
WCV-1	6#16, 1#16G - 1"C.	CP-BS	1, 2
FUTURE VALVE ACTUATORS			
FVA-2 THRU FVA-15	1"C. WITH PULL STRING VIA PULL BOX	CP-BS	1, 2

ELECTRICAL OPERATED VALVE SCHEDULE NOTES:
1. VERIFY LOCATION AND REQUIREMENTS WITH C SHEETS.
2. COORDINATE REQUIREMENTS WITH SYSTEM SUPPLIER(S).



W. L. BURLE
ENGINEERS, P.A.
111 South Walnut Street
Greenville, MS 38701



GS#323-024 ARPA INFR. - WASTE
CENT. TREATMENT
SOUTH MISSISSIPPI CORRECTIONAL INSTITUTE
LEAVESVILLE, MISSISSIPPI

Burle Proj. No.:
08194-1-0122

File Name:
E-205 ELECTRICAL SCHEDULES -
ADDENDUM (6-18-2024) DWG

Date: 04/29/2024

Scale: AS SHOWN

Drawn by: JWB

Checked: JWB

Revisions:
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ADDENDUM (6/18/2024)

Revisions:

Revisions:

ELECTRICAL
SCHEDULES

E-205

Drawing Number

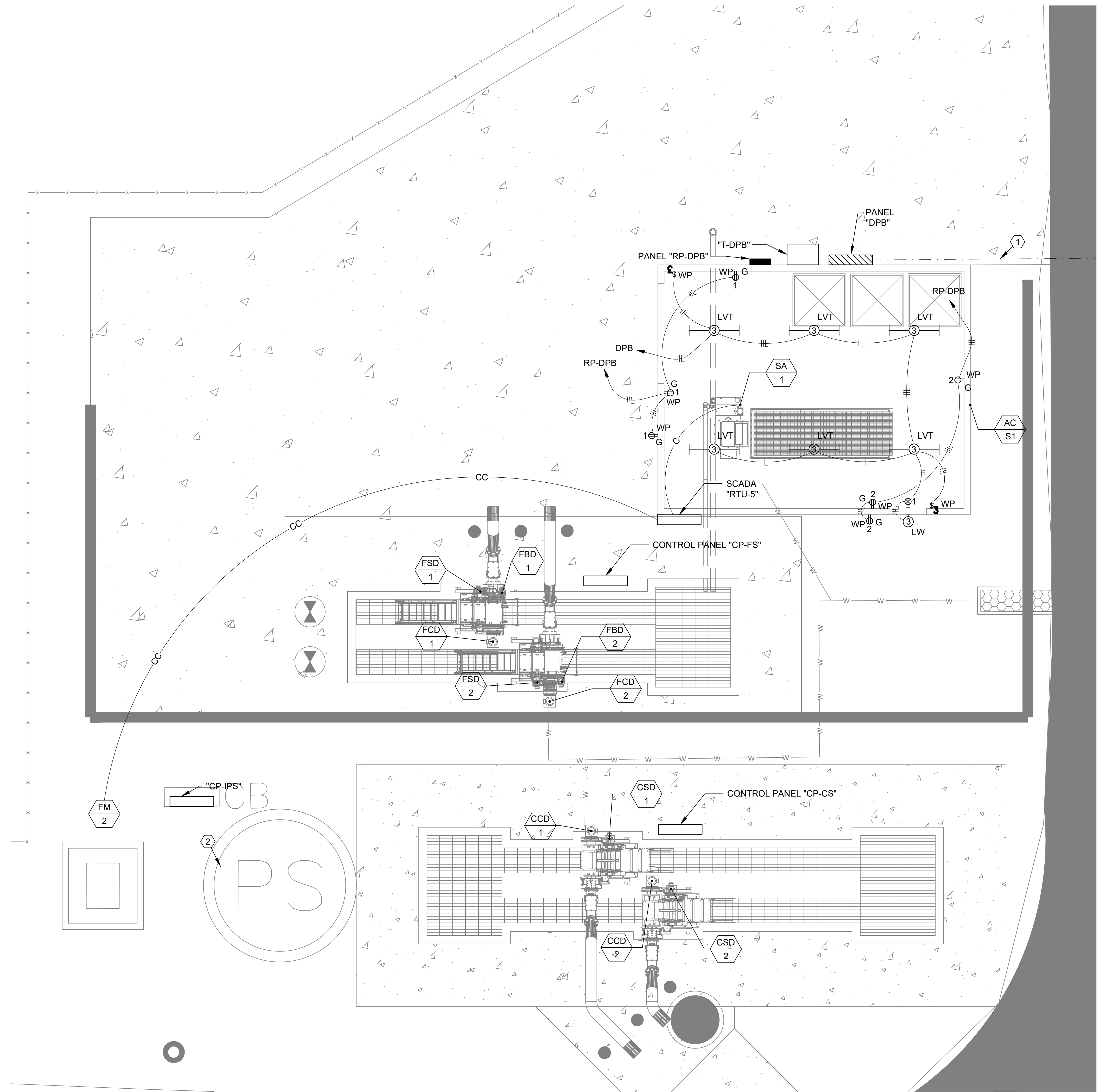
PANELBOARD SCHEDULE								PANEL "MPA"		
277/480 VOLTS, 3 PHASE, 4 WIRE, 1200 AMP MAIN BREAKER - LSIG								I-LINE STYLE PANEL		
ISOLATED NEUTRAL BUS, GROUND BUS, CONCRETE BASE WITH								99" OF MOUNTING SPACE		
EQUIPMENT STAND MOUNT, HINGED FRONT TRIM, NEMA 3R ENCLOSURE								MIN. 65K A (SYM) AVAILABLE FAULT		
CKT NO.	CIRCUIT DESCRIPTION	BRKR A/POLE	CKT VA	VOLT-AMPERES/ PHASE			CKT VA	BRKR A/POLE	CIRCUIT DESCRIPTION	CKT NO.
				PH A	PH B	PH C				
1	EXT. SITE LIGHTS	20/1	2000	88320			86320	600/3 (LSIG)	EXISTING PANEL "DPA"	2
3	FILTER BLDG LTS	20/1	2000		88320		86320			
5	UV BLDG LTS	20/1	2000			88320	86320			
7	TRANSFORMER "T-MPA"	150/3	25000	98538			73538	600/3 (LSIG)	CONTROL PANEL "CP-BS"	4
			25000		98538		73538			
			25000			98538	73538			
9	CONTROL PANEL "CP-F1"	20/3	4150	8300			4150	20/3	CONTROL PANEL "CP-F2"	6
			4150		8300		4150			
			4150			8300	4150			
11	CONTROL PANEL "CP-EPS"	250/3 (LSIG)	17430	23793			6363	40/3	CONTROL PANEL "CP-AER"	8
			17430		23793		6363			
			17430			23793	6363			
13	UV SYSTEM "PDC-1A"	20/3	2213	4426			2213	20/3	UV SYSTEM "PDC-1B"	10
			2213		4426		2213			
			2213			4426	2213			
15	UV SYSTEM "PDC-1C"	20/3	2213	3046			833	15/3	UV SYSTEM "HSC"	12
			2213		3046		833			
			2213			3046	833			
17	PANEL "DPB"	200/3	53708	53708			00	30/3	SPARE	14
			53708		58140		4432			
			53708			53708	0			
23	SPARE	30/3	0	0			0	30/3	SPARE	20
			0		0		0			
			0			0	0			
25	TVSS	30/3	0	0			0	30/3	SPARE	22
			0		0		0			
			0			0	0			
				280131	284563	280131	VA			
FACTORS:					844825		VA	CONN		
EXPANSION		1.15				971549		480	V (L-L)	
DEMAND		.8				777239	VA	DEM	935	A (DEM)
CODE		1.25				971549	VA	CODE	1169	A (CODE)

PANELBOARD SCHEDULE NOTES:

1. "LSIG" DENOTES ELECTRONIC TRIP CIRCUIT BREAKER WITH LONG TIME, SHORT TIME, INSTANTANEOUS, & GROUND FAULT.

PANELBOARD SCHEDULE							PANEL "RP-MPA"			
120/208 VOLTS, 3 PHASE, 4 WIRE, 250 AMP MAIN BREAKER ISOLATED NEUTRAL BUS, GROUND BUS, SURFACE MOUNT ON EQUIPMENT STAND, HINGED FRONT TRIM, NEMA 3R ENCLOSURE							NQO STYLE PANEL 42 CKT PANEL MIN. 22K A (SYM) AVAILABLE FAULT			
CKT NO.	CIRCUIT DESCRIPTION	BRKR A/POLE	CKT VA	VOLT-AMPERES/ PHASE			CKT VA	BRKR A/POLE	CIRCUIT DESCRIPTION	CKT NO.
				PH A	PH B	PH C				
1	REC - FILTER BLDG	20/1	1000	2000			1000	20/1	REC - FILTER BLDG	2
3	REC - FILTER BLDG	20/1	1000		2000		1000	20/1	REC - FILTER BLDG	4
5	RTU-1	20/1	800			1600	800	20/1	RTU-2	6
7	RTU-3	20/1	800	1600			800	20/1	RTU-4	8
9	REC - UV BLDG	20/1	1000		2000		1000	20/1	REC - UV BLDG	10
11	REC - UV BLDG	20/1	1000			2000	1000	20/1	SUMP PUMP "SP-1"	12
13	UV-SCC	20/1	1440	2440			1000	20/1	BRIDGE CRANE "BC1"	14
15	FM-1 (AS REQUIRED)	20/1	400		1400		1000	20/1	BRIDGE CRANE "BC2"	16
17	AC-F1	30/2	2600			5200	2600	30/2	AC-UV1	18
19			2600	5200			2600			20
21	AC-F2	30/2	2600		5200		2600	30/2	AC-UV2	22
23			2600			5200	2600			24
25	AC-F3	30/2	2600	5200			2600	30/2	AC-UV3	26
27			2600		5200		2600			28
29	AC-F4	30/2	2600			5200	2600	30/2	AC-UV4	30
31			2600	5200			2600			32
33	REC - CLARIFIERS	20/1	600		600		0	20/1	SPARE	34
35	SPARE	20/1	0			0	0	20/1	SPARE	36
37	SPARE	20/1	0	0			0	30/3	TVSS	38
39	SPARE	20/1	0		0		0			40
41	SPARE	20/1	0			0	0			42
				21640	16400	19200	VA			
FACTORS:					57240	VA	CONN			
EXPANSION		1.5		85860		208	V (L-L)			
DEMAND		0.8		68688	VA	DEM	191	A (DEM)		
CODE		1.25		85860	VA	CODE	238	A (CODE)		

PANELBOARD SCHEDULE								PANEL "DPB"			
277/480 VOLTS, 3 PHASE, 4 WIRE, 200 AMP MAIN BREAKER (400 AMP RATED)								NF STYLE PANEL			
ISOLATED NEUTRAL BUS, GROUND BUS, LSIG MAIN BREAKER								42 CKT PANEL			
SURFACE MOUNT, HINGED FRONT TRIM, NEMA 3R ENCLOSURE								MIN. 42K A (SYM) AVAILABLE FAULT			
CKT NO.	CIRCUIT DESCRIPTION	BRKR A/POLE	CKT VA	VOLT-AMPERES/ PHASE			CKT VA	BRKR A/POLE	CIRCUIT DESCRIPTION	CKT NO.	
				PH A	PH B	PH C					
1	EXT. SITE LIGHTS	20/1	1000	6000			5000	30/3	TRANSFORMER "T-DPB"	2	
3	INTERIOR LIGHTS	20/1	800		5800		5000			4	
5	SPARE	20/1	0			5000	5000			6	
7	CP-IPS (INFLUENT PUMP STATION)	75/3	17430	26816			9386	60/3	CP-FS (FINE SCREEN)	8	
9			17430		26816		9386			10	
11			17430			26816	9386			12	
13	CP-CS (COARSE SCREEN)	30/3	4683	4683			0	40/3	SPARE	14	
15			4683		4683		0			16	
17			4683			4683	0			18	
19	SPARE	30/3	0	0			0	30/3	SPARE	20	
21			0		0		0			22	
23			0			0	0			24	
25	SPACE	30/3	0	0			0	30/3	SPACE	26	
27			0		0		0			28	
29			0			0	0			30	
31	SPACE	30/3	0	0			0	30/3	SPACE	32	
33			0		0		0			34	
35			0			0	0			36	
37	SPACE	30/3	0	0			0	30/3	TVSS	38	
39			0		0		0			40	
41			0			0	0			42	
				37499	37299	36499	VA				
FACTORS:					111297	VA	CONN				
EXPANSION		1.25			139121			480	V (L-L)		
DEMAND		.8			111297	VA	DEM	134	A (DEM)		
CODE		1.25			139121	VA	CODE	167	A (CODE)		



ENLARGED PLAN - HEADWORKS
SCALE: 1/4"=1'-0"

GENERAL NOTES

1. REFER TO SHEET E-201 FOR ELECTRICAL SITE PLAN.
2. REFER TO SHEET E-202 FOR SCADA SYSTEM PLAN.
3. REFER TO SHEET E-205 FOR MECHANICAL EQUIPMENT SCHEDULE AND CONTROL PANEL SCHEDULE FOR CONDUIT AND WIRE REQUIREMENTS.
4. REFER TO SHEET E-206 FOR PANELBOARD SCHEDULES.
5. REFER TO SHEET E-203 FOR POWER RISER DIAGRAM.
6. REFER TO SPECIFICATIONS FOR CONDUIT AND CONDUCTOR GENERAL REQUIREMENTS.

NUMBERED NOTES

- 1 UNDERGROUND FEEDER CONDUITS. REFER TO E-201 OVERALL ELECTRICAL SITE PLAN FOR CONTINUATION. REFER TO E-203 FOR CONDUIT AND WIRE SCHEDULE.
- 2 INFLUENT PUMP STATION. REFER TO SHEET E-310 FOR ELECTRICAL DETAILS. REFER TO E-205 FOR MECHANICAL EQUIPMENT SCHEDULE.

W. L. BURLE
ENGINEERS, P.A.
111 South Walnut Street
Greenville, MS 38701



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Burle Proj. No.:	08194-1-0122
File Name:	E-301 ENLARGED PLAN - HEADWORKS.DWG
Date:	04/29/2024
Scale:	AS SHOWN
Drawn by:	JWB
Checked:	JWB
Revisions:	

Revisions:

Revisions:

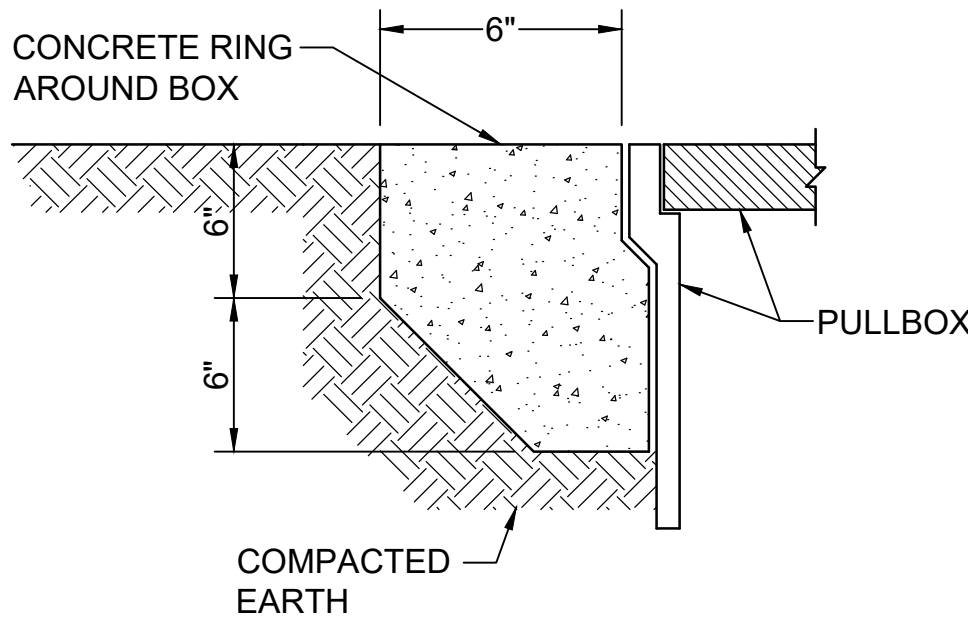
ENLARGED PLAN - HEADWORKS

E-301
Drawing Number



GENERAL PULLBOX NOTES

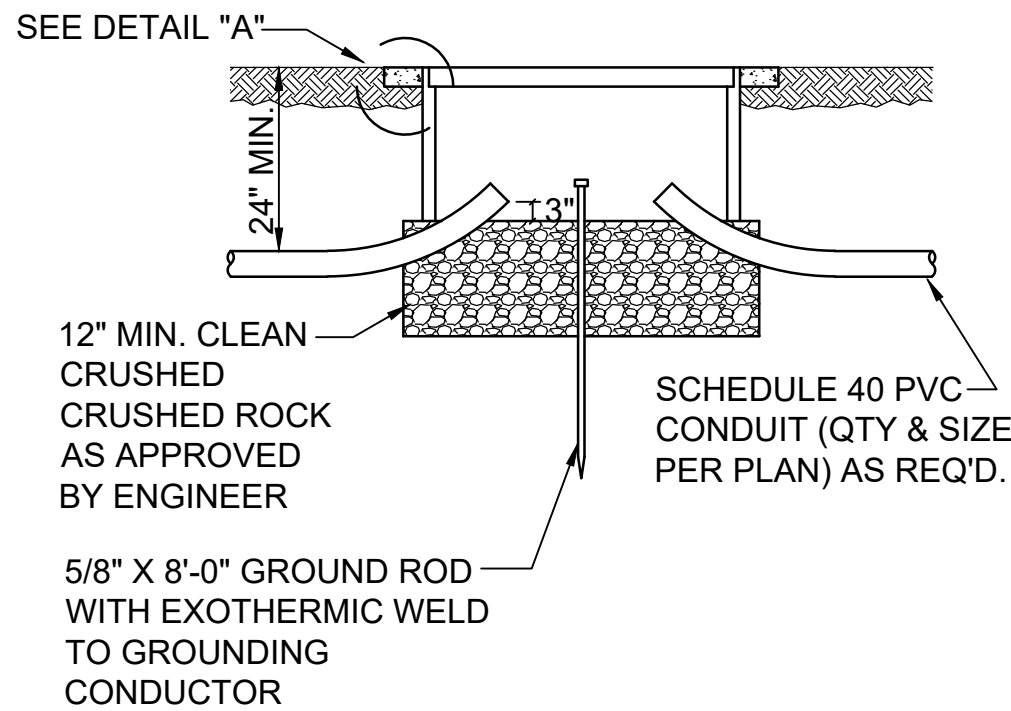
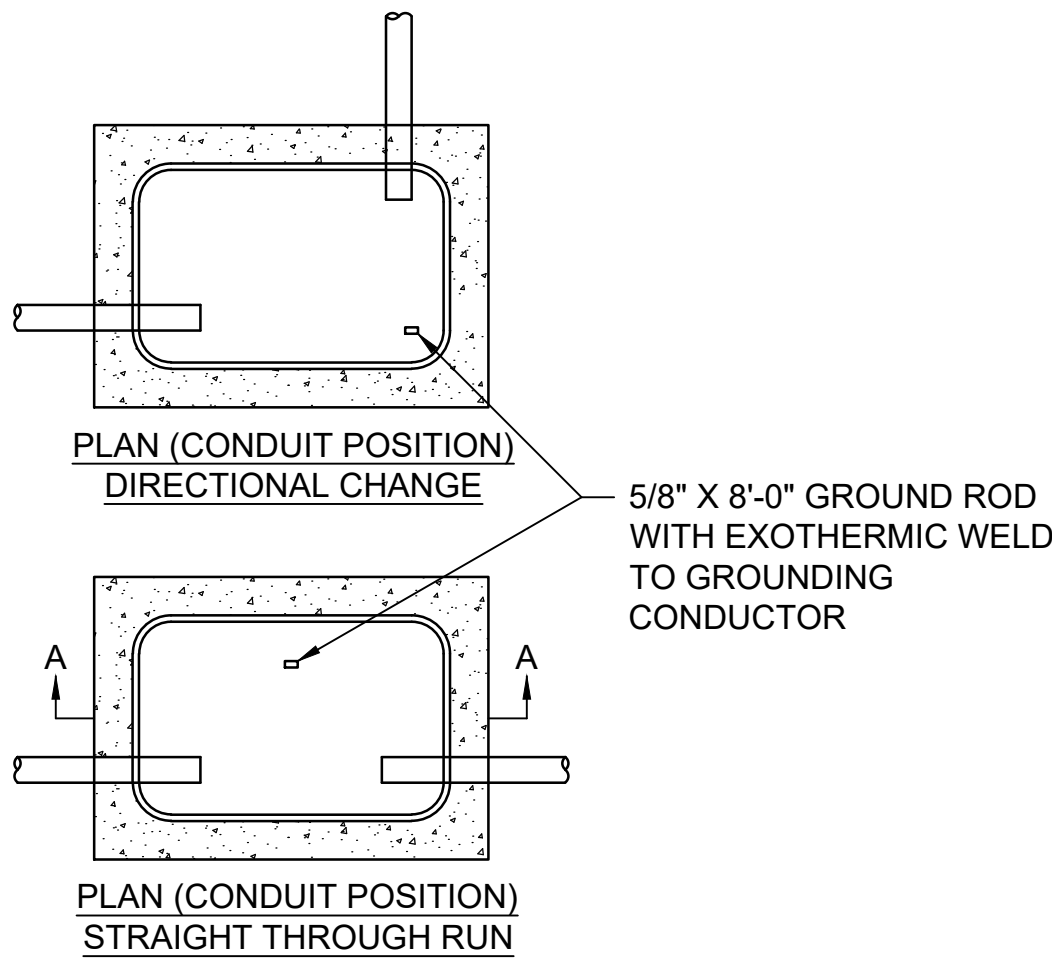
- GRAVEL, 12" DEEP, IS REQUIRED UNDER PULLBOXES FOR DRAINAGE.
- CONCRETE COLLAR, 6"W x 6"D, IS REQUIRED FOR PULLBOXES PLACED IN SOIL.
- "ELECTRIC" LOGO FOR POWER REQUIRED ON COVER. "COMMUNICATIONS" LOGO FOR CONTROLS/COMMUNICATIONS REQUIRED ON COVER.
- COVERS SHALL BOLT DOWN.
- PULL BOX SHALL BE SIZED TO ACCOMMODATE ALL CONDUITS ENTERING AND EXITING. PROVIDE SPACE FOR RADIUS BEND PULLING REQUIREMENTS OF CONDUCTORS AND CABLES. INCLUDE LAYOUT OF EACH PULL BOX IN SUBMITTAL. MINIMUM SIZE SHALL BE 24"L X 24"W X 24"D.



NOTES:

- CONCRETE ENCASEMENT TO BE 3,500 PSI MINIMUM. COMPACT TO AT LEAST 90% OF MAXIMUM DRY DENSITY
- IN ACCORDANCE WITH ASTM D698.

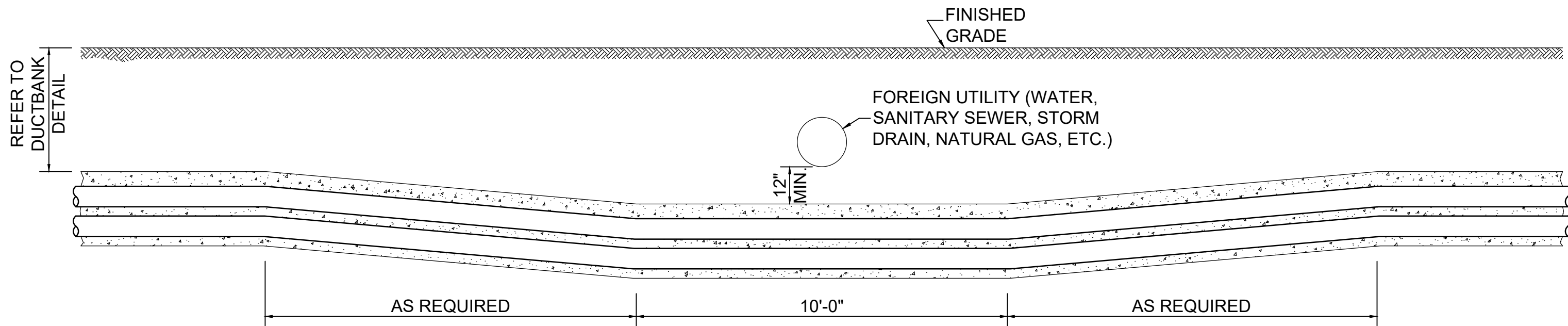
DETAIL "A"



SECTION A - A

PULLBOX DETAIL

SCALE: NONE

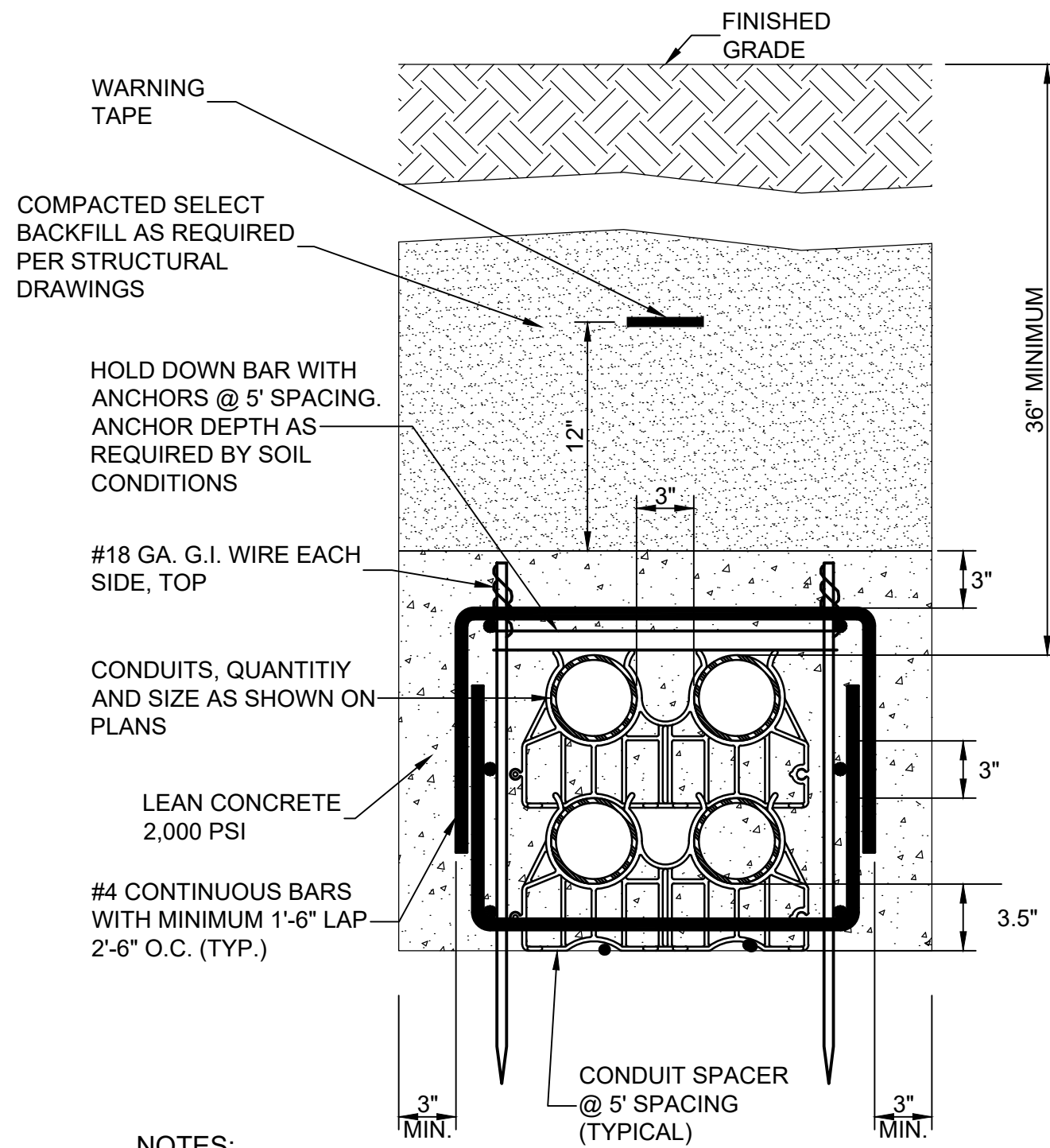


DUCTBANK CROSSING OTHER UTILITIES DETAIL (TYPICAL)

SCALE: NONE

DETAIL NOTES:

- WHERE OTHER UTILITIES (WATER, SANITARY SEWER, SLOT DRAIN, STORM DRAIN, NATURAL GAS, ETC.) MUST BE CROSSED BY DUCTBANK, CONTRACTOR SHALL ADJUST ELEVATION OF DUCTBANK TO MAINTAIN A MINIMUM CLEAR DISTANCE OF 12" ABOVE OR BELOW SUCH UTILITIES. IN ALL CASES, CONTRACTOR SHALL MAINTAIN MINIMUM BURIAL DEPTH SPECIFIED.
- WHERE CHANGES IN ELEVATION ARE REQUIRED, CONTRACTOR SHALL MINIMIZE THE NUMBER OF BENDS IN DUCTBANK DUCTS TO THE GREATEST EXTENT PRACTICABLE.
- CONTRACTOR SHALL USE FIELD FABRICATING TECHNIQUES PER CONDUIT MANUFACTURER'S WRITTEN INSTRUCTIONS. IN ALL CASES, CONTRACTOR SHALL MAINTAIN A MINIMUM BENDING RADIUS OF 35 FEET, BOTH HORIZONTALLY AND VERTICALLY.

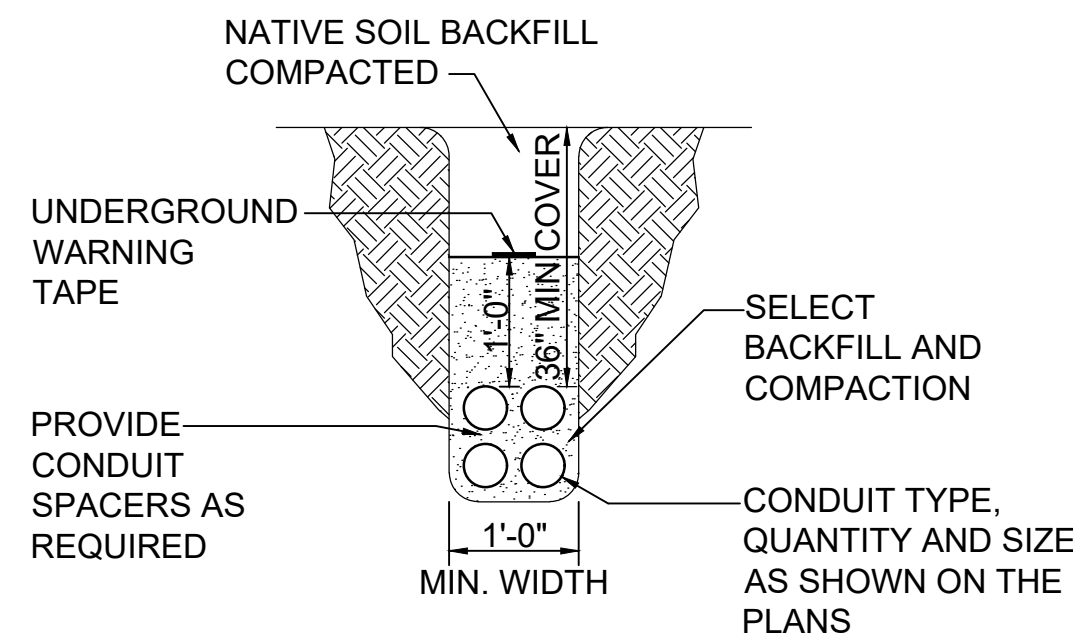


NOTES:

- REFER TO SPECIFICATION SECTIONS 03 11 00 - CONCRETE FORMING, 03 20 00 - CONCRETE REINFORCEMENT, & 03 30 00 - CAST IN PLACE CONCRETE.

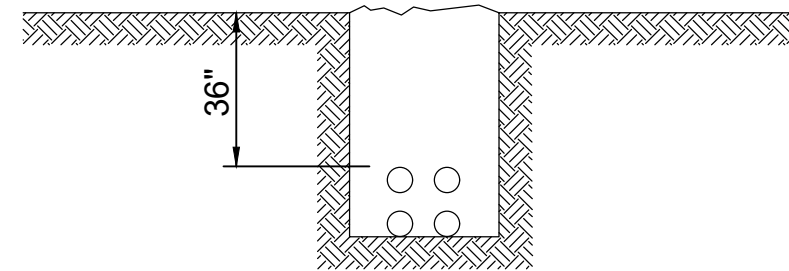
CONCRETE ENCASED DUCTBANK DETAIL (TYPICAL)

SCALE: NONE



DUCT IN TRENCH (TYP.)

SCALE: NONE



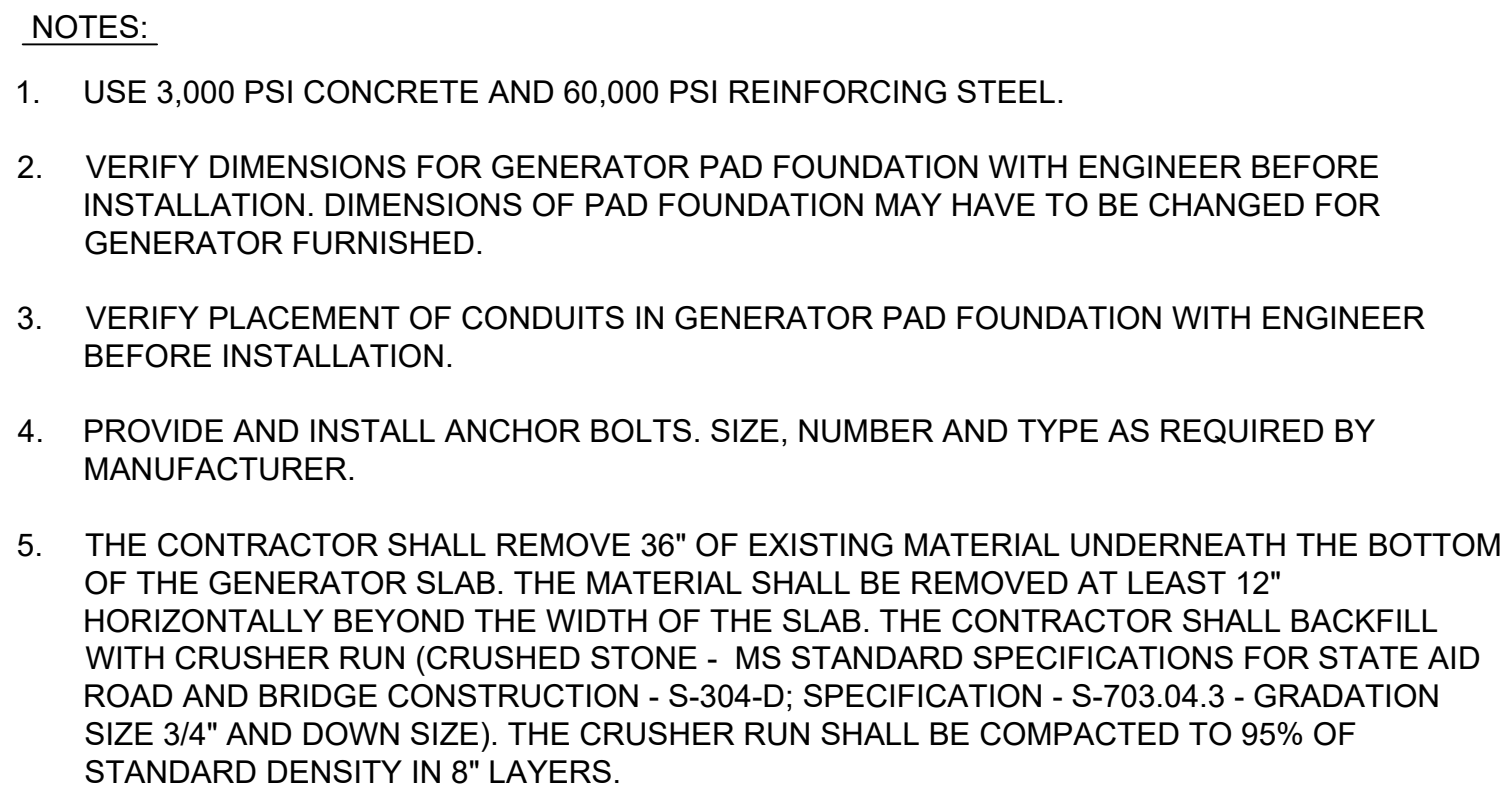
DUCTBANK DETAIL

SCALE: NONE

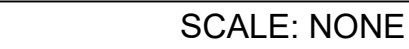


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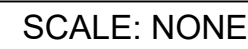
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File Name: E-304 ELECTRICAL DETAILS.DWG
Date: 04/29/2024
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ELECTRICAL DETAILS
E-304
Drawing Number



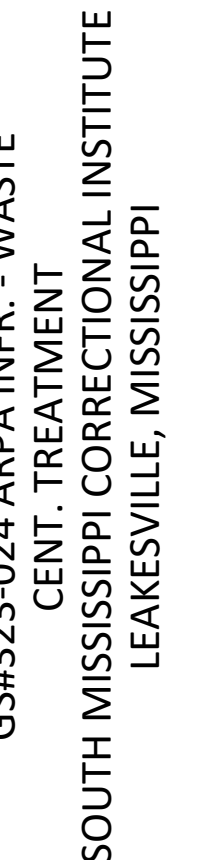
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- ## 1. BOND STEEL TO GROUND



1. CURING: ALL CONCRETE SHALL BE MAINTAINED AT 50 DEGREES FAHRENHEIT MINIMUM AND IN A VISIBLY MOIST CONDITION FOR AT LEAST 7 DAYS AFTER PLACEMENT. ALL EXPOSED CONCRETE SURFACES SHALL BE KEPT MOIST AFTER POURING BY USE OF FORMS, PLASTIC VAPOR BARRIER, OR SUITABLE CURING COMPOUND. INTERMITTENT WETTING SHALL NOT BE PERMITTED. ALL CONCRETE SHALL BE CURED IN ACCORDANCE WITH ACI PUBLICATION "STANDARD PRACTICE FOR CURING CONCRETE".
2. LOADING: LIGHT POLES SHALL NOT BE PLACED ON CONCRETE PIERS AND PEDESTALS FOR AT LEAST 5 DAYS AFTER POURING AND CURING. AT NO TIME DURING CONSTRUCTION SHALL LOADS ON CONCRETE EXCEED THE LIVE AND DEAD LOADS FOR WHICH THE STRUCTURE WAS DESIGNED.
3. GROUTING:
 - ALL BASEPLATES BENEATH POLES FOR AREA LIGHTING SHALL BE FULLY GROUTED.
 - USE A FACTORY PRE-MIXED, HIGH STRENGTH, NON-SHRINK, NON-METALLIC, CEMENTITIOUS GROUT THAT MEETS OR EXCEEDS ASTM C 1107.
 - PREPARE SURFACES, MIX, AND PLACE GROUT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - FILL ALL VOIDS AND ENSURE FULL CONTACT WITH ALL ADJOINING SURFACES. FULLY PACK PLASTIC GROUT. PROVIDE FORMS AND AIR HOLES AS NECESSARY FOR FLOWABLE GROUT.
 - BEFORE FINAL SET, CUT BACK AND SLOPE SIDES OF GROUT TO 45 DEGREES AS SHOWN IN DETAILS.
 - PROVIDE A BRUSHED FINISH ON EXPOSED SURFACES.
 - IMMEDIATELY AFTER COMPLETION OF FINISHING OPERATIONS, WET CURE GROUT FOR 3 DAYS MINIMUM OR IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 - PROVIDE GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 7000 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C 1107.
 - USE BASF MASTERFLOW 928 OR EQUAL.



Curle Proj. No.:
08194-1-0122

File Name:
305 ELECTRICAL DETAILS.DWG

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Revisions:

Revisions:

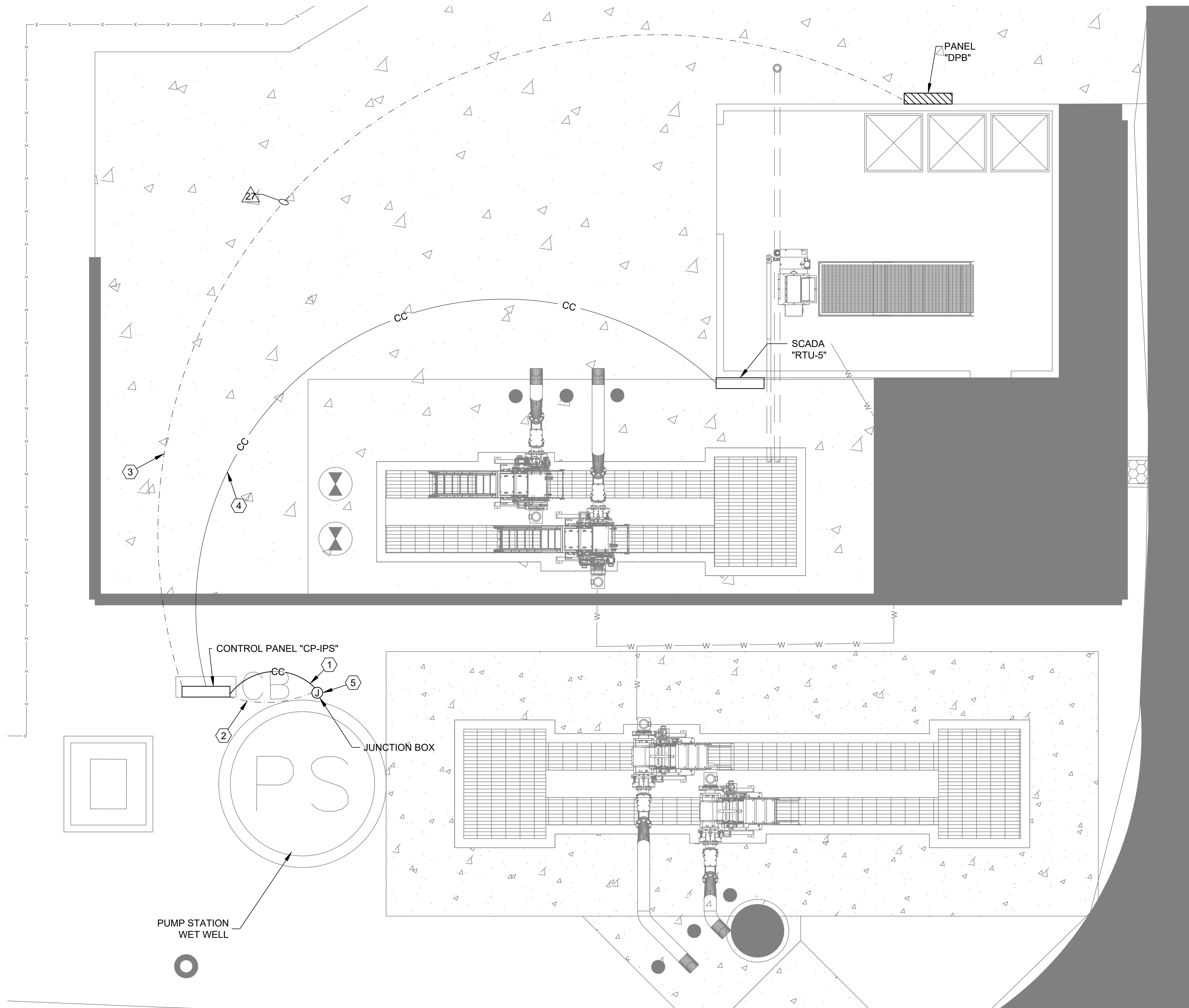
Revisions:



ELECTRICAL DETAILS

-305

Drawing Number



ENLARGED PLAN - INFLUENT PUMP STATION
SCALE: 1/4"=1'-0"

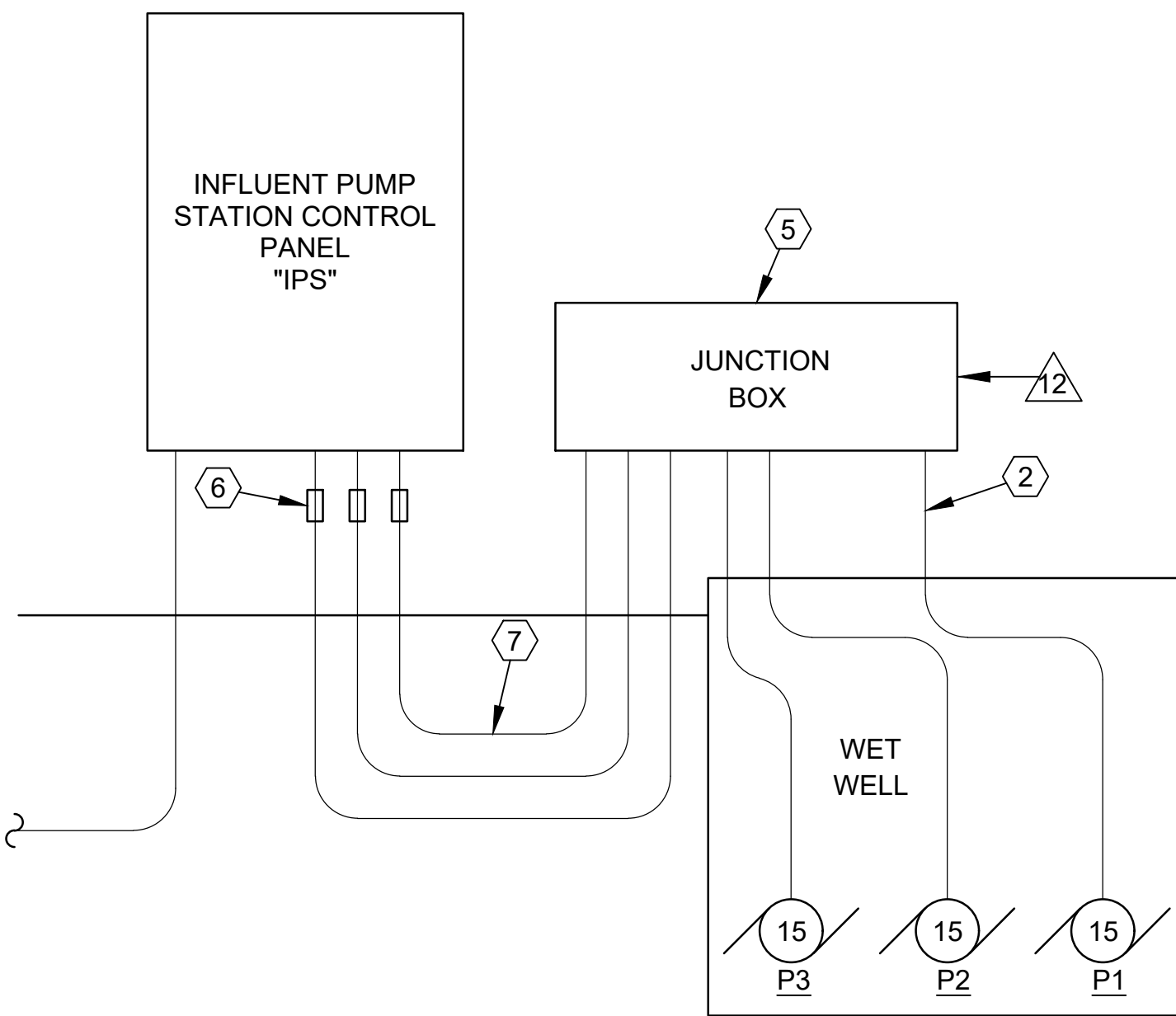
INFLUENT PUMP STATION EQUIPMENT SCHEDULE											
MARK	ITEM DESCRIPTION	VOLTS/ PHASE	HP	AMPS	STARTER			DISCONNECT SWITCH			REMARKS
					SIZE	TYPE	LOCATION	SIZE	FUSE	LOCATION	
P-1	SEWAGE PUMP	480/3	15	21A	15HP	VFD	CONTROL PANEL	N/A	N/A	N/A	VFD SUPPLIED WITH PUMP STATION CONTROL PANEL
P-2	SEWAGE PUMP	480/3	15	21A	15HP	VFD	CONTROL PANEL	N/A	N/A	N/A	VFD SUPPLIED WITH PUMP STATION CONTROL PANEL
P-3	SEWAGE PUMP	480/3	15	21A	15HP	VFD	CONTROL PANEL	N/A	N/A	N/A	VFD SUPPLIED WITH PUMP STATION CONTROL PANEL

GENERAL NOTES

- REFER TO SHEET E-201 FOR ELECTRICAL SITE PLAN.
- REFER TO SHEET E-202 FOR SCADA SYSTEM PLAN.
- REFER TO SHEET E-203 FOR POWER RISER DIAGRAM.
- REFER TO SHEET E-205 FOR MECHANICAL EQUIPMENT SCHEDULE AND CONTROL PANEL SCHEDULE FOR CONDUIT AND WIRE REQUIREMENTS.
- REFER TO SHEET E-206 FOR PANELBOARD SCHEDULES.
- REFER TO SPECIFICATIONS FOR CONDUIT AND CONDUCTOR GENERAL REQUIREMENTS.

NUMBERED NOTES

- CONTROL CIRCUIT(S) TO WET WELL. PROVIDE A MINIMUM OF TWO (2) 1" CONDUITS. PROVIDE CONTROL CONDUCTORS FOR PUMP SEAL FAILURES, FLOAT(S), TRANSDUCER, ETC. AS REQUIRED. VERIFY QUANTITY AND TYPE OF CONTROL CONDUCTORS WITH CONTROL SYSTEM SUPPLIER BEFORE INSTALLATION.
- SUBMERSIBLE PUMPS FEEDER CIRCUITS. (TYPICAL)
- UNDERGROUND POWER FEEDER TO PANEL "DPB". REFER TO SHEET E-203 FOR POWER RISER DIAGRAM CONDUIT & WIRE SCHEDULE.
- UNDERGROUND SCADA CABLES TO RTU-5. REFER TO SPECIFICATIONS.
- JUNCTION BOX, NEMA 4X FIBERGLASS WITH TERMINAL BLOCKS FOR POWER & CONTROL CABLES. SIZE AS REQUIRED. SEAL ALL CONDUITS ENTERING WETWELL PER SPECIFICATIONS.
- EXPLOSIVE GAS SEAL OFF FITTINGS (TYPICAL FOR POWER & CONTROL CONDUITS).
- (3) #8 THWN, (1) #10 THWN (G), 1" CONDUIT PER PUMP FEEDER.



PUMP STATION POWER RISER DIAGRAM
SCALE: NONE



Burle Proj. No.:
08194-1-0122

File Name:
E-310 ENLARGED PLAN - INFLUENT
PUMP STATION.DWG

Date: 04/29/2024

Scale: AS SHOWN

Drawn by: JWB

Checked: JWB

Revisions:

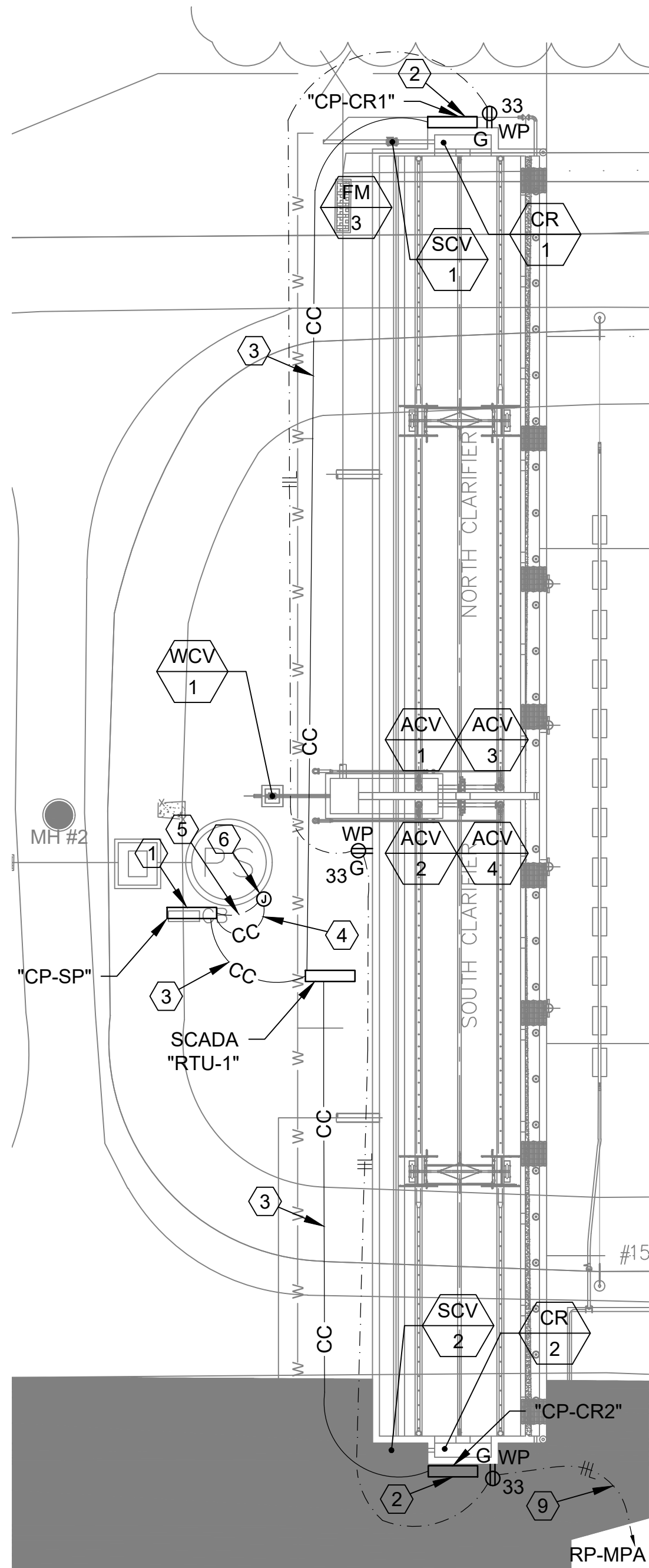
Revisions:

Revisions:

ENLARGED PLAN -
INFLUENT PUMP STATION

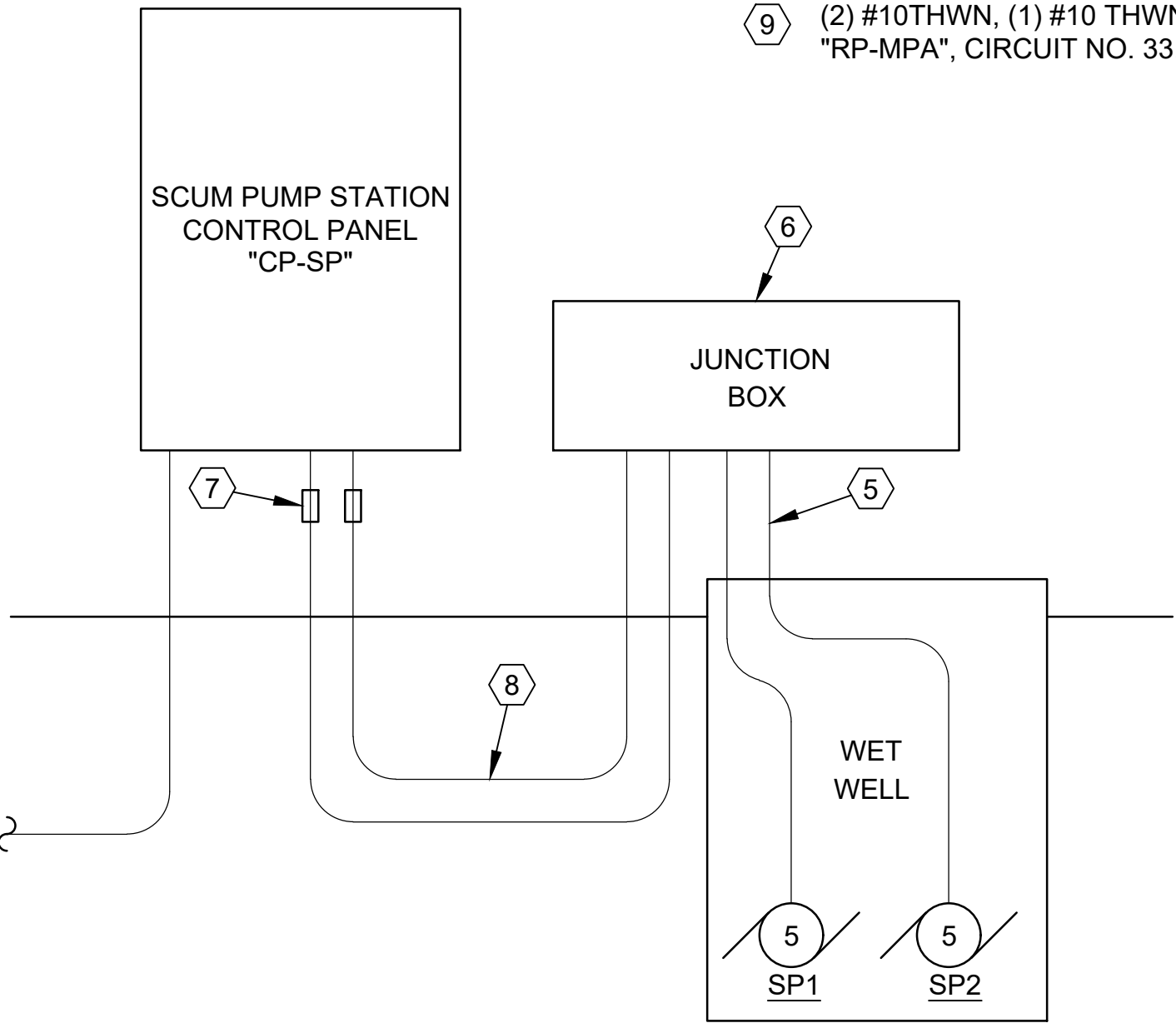
E-310

Drawing Number



ENLARGED PLAN - CLARIFIERS
SCALE: 1/16"=1'-0"

SCUM PUMP STATION EQUIPMENT SCHEDULE											
MARK	ITEM DESCRIPTION	VOLTS/ PHASE	HP	AMPS	STARTER			DISCONNECT SWITCH			REMARKS
					SIZE	TYPE	LOCATION	SIZE	FUSE	LOCATION	
SP-1	SCUM PUMP	480/3	5	7.6A	0	FVNR	CONTROL PANEL	N/A	N/A	N/A	
SP-2	SCUM PUMP	480/3	5	7.6A	0	FVNR	CONTROL PANEL	N/A	N/A	N/A	



PUMP STATION POWER RISER DIAGRAM
SCALE: NONE

GENERAL NOTES

- 1. REFER TO SHEET E-201 FOR ELECTRICAL SITE PLAN.
- 2. REFER TO SHEET E-202 FOR SCADA SYSTEM PLAN.
- 3. REFER TO SHEET E-205 FOR MECHANICAL EQUIPMENT SCHEDULE AND CONTROL PANEL SCHEDULE FOR CONDUIT AND WIRE REQUIREMENTS.
- 4. REFER TO SHEET E-206 FOR PANELBOARD SCHEDULES.
- 5. REFER TO SHEET E-203 FOR POWER RISER DIAGRAM.
- 6. REFER TO SPECIFICATIONS FOR CONDUIT AND CONDUCTOR GENERAL REQUIREMENTS.

NUMBERED NOTES

- 1 SCUM PUMP STATION. PROVIDE SEAL OFF FITTINGS AND JUNCTION BOX SIMILAR TO SHEET E-310. REFER TO E-205 FOR MECHANICAL EQUIPMENT SCHEDULE. SCUM PUMP CONTROL PANEL "CP-SP" FED FROM CONTROL "CP-BS" FOR THE BIOLAC SYSTEM. REFER TO E-501 FOR LOCATION OF CONTROL PANEL "CP-BS" IN FILTER BUILDING.
- 2 RAKE CONTROL PANEL FED FROM CONTROL PANEL "CP-BS" FOR THE BIOLAC SYSTEM. REFER TO E-501 FOR LOCATION OF CONTROL PANEL "CP-BS" IN FILTER BUILDING.
- 3 UNDERGROUND SCADA CONDUIT & CONDUCTORS FOR CONNECTIONS TO EACH CONTROL PANEL. REFER TO SPECIFICATIONS.
- 4 CONTROL CIRCUIT(S) TO WET WELL. PROVIDE A MINIMUM OF TWO (2) 1" CONDUITS. PROVIDE CONTROL CONDUCTORS FOR PUMP SEAL FAILURES, FLOAT(S), TRANSDUCER, ETC. AS REQUIRED. VERIFY QUANTITY AND TYPE OF CONTROL CONDUCTORS WITH CONTROL SYSTEM SUPPLIER BEFORE INSTALLATION.
- 5 SUBMERSIBLE PUMPS FEEDER CIRCUITS. (TYPICAL)
- 6 JUNCTION BOX, NEMA 4X FIBERGLASS WITH TERMINAL BLOCKS FOR POWER & CONTROL CABLES. SIZE AS REQUIRED. SEAL ALL CONDUITS ENTERING WETWELL PER SPECIFICATIONS.
- 7 EXPLOSIVE GAS SEAL OFF FITTINGS (TYPICAL FOR POWER & CONTROL CONDUITS).
- 8 (3) #12 THWN, (1) #12 THWN (G), 1" CONDUIT PER PUMP FEEDER.
- 9 (2) #10THWN, (1) #10 THWN (G), 1" CONDUIT HOMERUN TO "RP-MPA", CIRCUIT NO. 33.

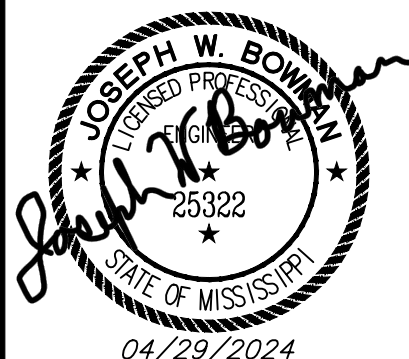


W.L. BURLE

ENGINEERS, P.A.

111 South Walnut Street

Greenville, MS 38701



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Burle Proj. No.:
08194-1-0122

File Name:
E-404 - ENLARGED PLAN -
CLARIFIERS - ADDENDUM (6-18-2024).DWG

Date: 04/29/2024

Scale: AS SHOWN

Drawn by: JWB

Checked: JWB

Revisions:
1
REVISIONS FOR
ADDENDUM (6/18/2024)

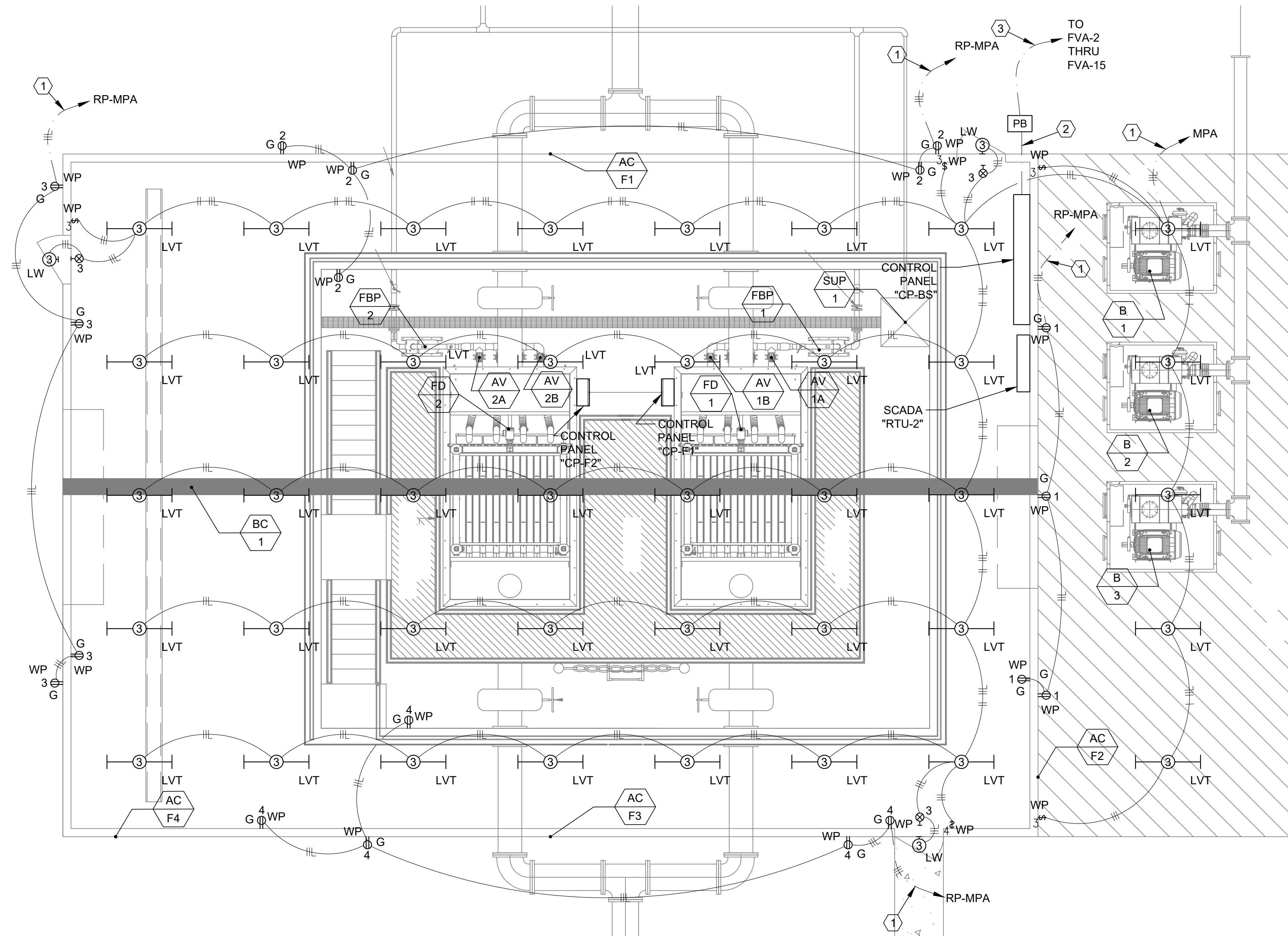
Revisions:

Revisions:

ENLARGED PLAN -
CLARIFIERS

E-404

Drawing Number



ENLARGED PLAN - FILTERS & BLOWERS
SCALE: 1/4"=1'-0"

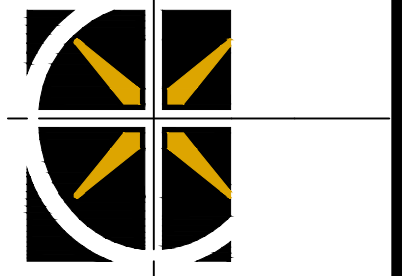
GENERAL NOTES

1. REFER TO SHEET E-201 FOR ELECTRICAL SITE PLAN.
2. REFER TO SHEET E-202 FOR SCADA SYSTEM PLAN.
3. REFER TO SHEET E-205 FOR MECHANICAL EQUIPMENT SCHEDULE AND CONTROL PANEL SCHEDULE FOR CONDUIT AND WIRE REQUIREMENTS.
4. REFER TO SHEET E-206 FOR PANELBOARD SCHEDULES.
5. REFER TO SHEET E-203 FOR POWER RISER DIAGRAM.
6. REFER TO SPECIFICATIONS FOR CONDUIT AND CONDUCTOR GENERAL REQUIREMENTS.

NUMBERED NOTES

1. UNDERGROUND BRANCH CIRCUIT HOMERUNS SHALL BE MINIMUM #10, 1#10G - 3/4"C.
2. UNDERGROUND POWER SUPPLY AND CONTROL CONDUCTORS FOR FUTURE VALVE ACTUATORS. MINIMUM THREE(3) 2" C. WITH PULL STRINGS.
3. UNDERGROUND POWER SUPPLY AND CONTROL CONDUCTORS FOR FUTURE VALVE ACTUATORS. REFER TO SHEET E-205 FOR ELECTRICAL OPERATED VALVE SCHEDULE.

W.L. BURLE
ENGINEERS, P.A.
111 South Walnut Street
Greenville, MS 38701



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CENT. TREATMENT
SOUTH MISSISSIPPI CORRECTIONAL INSTITUTE
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Burle Proj. No.:
08194-1-0122

File Name:
E-501 ENLARGED PLAN - FILTERS &
BLOWERS - ADDENDUM (6-18-2024) DWG

Date: 04/29/2024

Scale: AS SHOWN

Drawn by: JWB

Checked: JWB

Revisions:
1
REVISIONS FOR
ADDENDUM (6/18/2024)

Revisions:

Revisions:

ENLARGED PLAN -
FILTERS & BLOWERS

E-501

Drawing Number

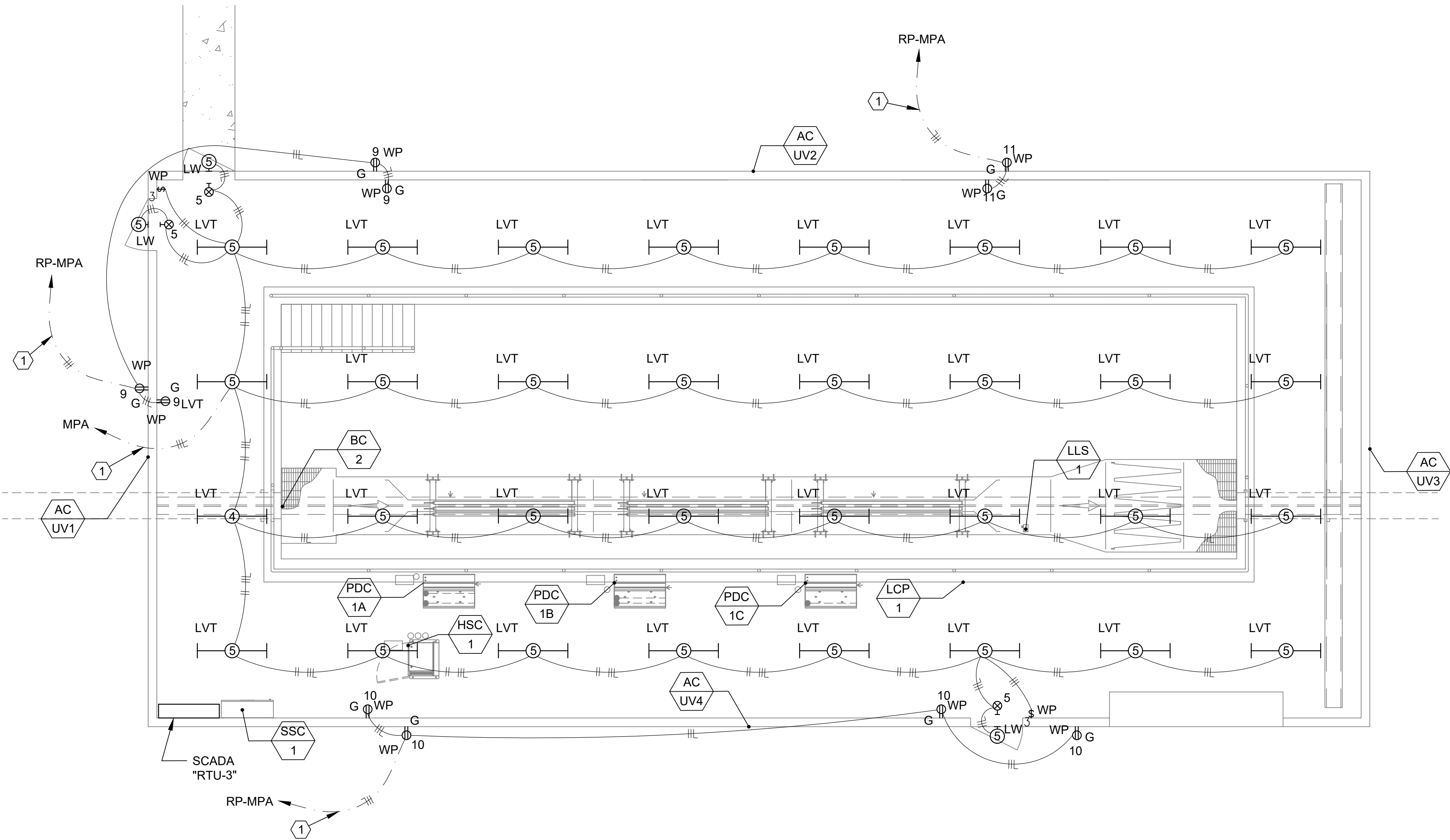


GENERAL NOTES

- 1. REFER TO SHEET E-201 FOR ELECTRICAL SITE PLAN.
- 2. REFER TO SHEET E-202 FOR SCADA SYSTEM PLAN.
- 3. REFER TO SHEET E-205 FOR MECHANICAL EQUIPMENT SCHEDULE AND CONTROL PANEL SCHEDULE FOR CONDUIT AND WIRE REQUIREMENTS.
- 4. REFER TO SHEET E-206 FOR PANELBOARD SCHEDULES.
- 5. REFER TO SHEET E-203 FOR POWER RISER DIAGRAM.
- 6. REFER TO SPECIFICATIONS FOR CONDUIT AND CONDUCTOR GENERAL REQUIREMENTS.

NUMBERED NOTES

1 UNDERGROUND BRANCH CIRCUIT HOMERUNS SHALL BE MINIMUM 2#10, 1#10G - 3/4"C.



ENLARGED PLAN - UV DISINFECTION SYSTEM
SCALE: 1/4"=1'-0"



W.L. BURLE
ENGINEERS, P.A.
111 South Walnut Street
Greenville, MS 38701



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Burle Proj. No.:
08194-1-0122

File Name:
E-701 ENLARGED PLAN - UV DISINFECTION
ADDENDUM (6-18-2024).DWG

Date: 04/29/2024

Scale: AS SHOWN

Drawn by: JWB

Checked: JWB

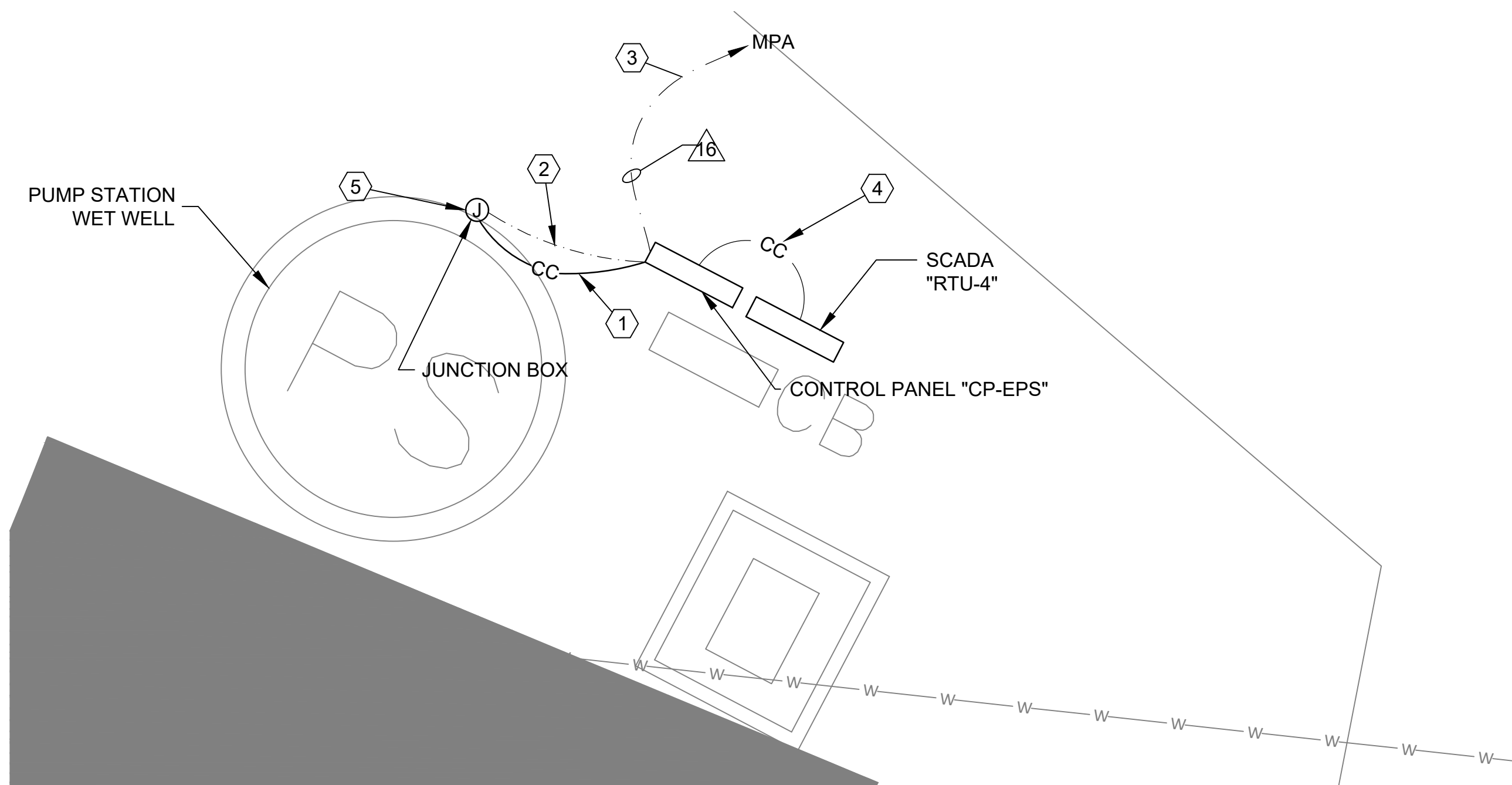
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1
REVISIONS FOR
ADDENDUM (6/18/2024)

Revisions:

Revisions:

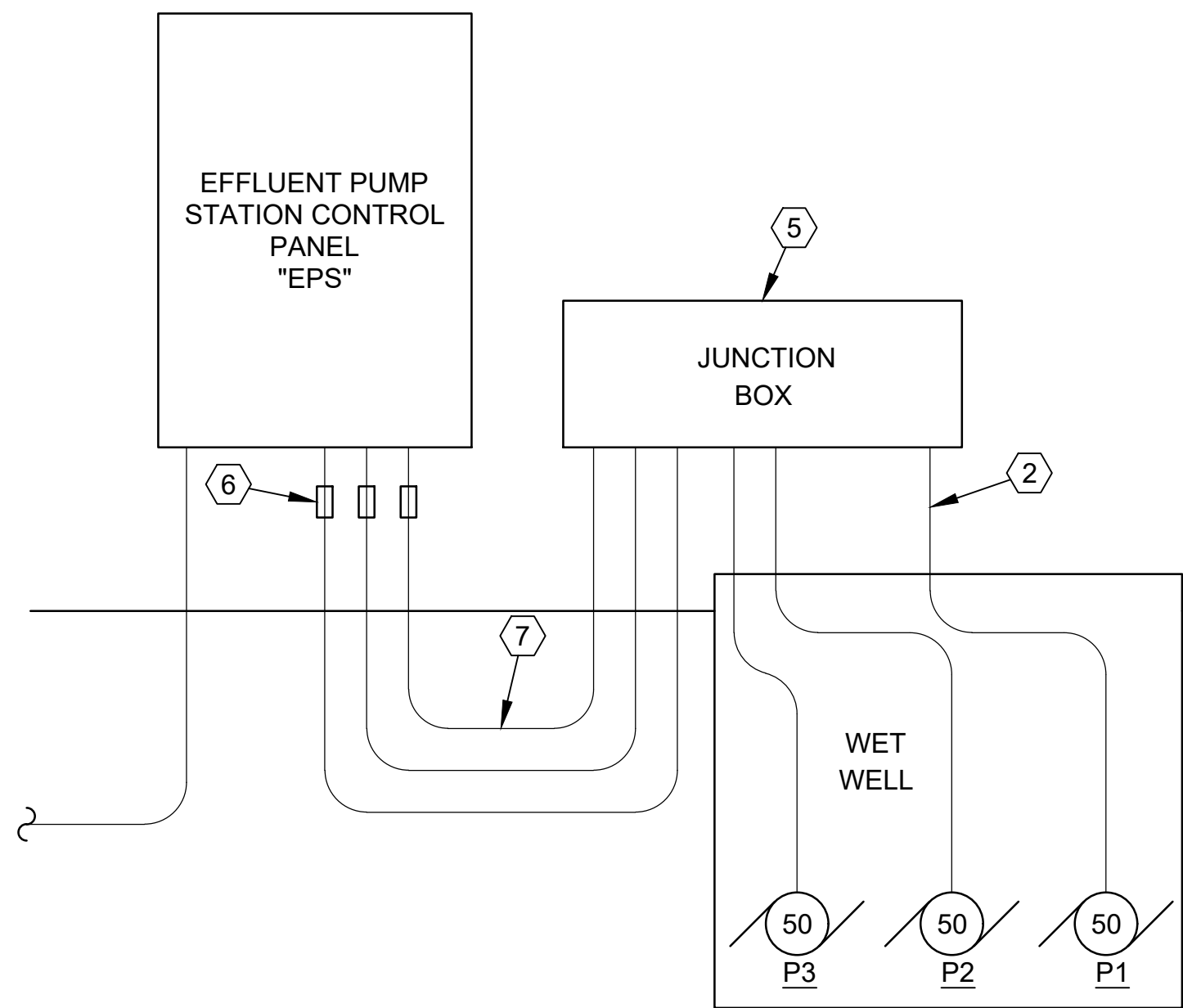
ENLARGED PLAN -
UV DISINFECTION SYSTEM

E-701
Drawing Number



ENLARGED PLAN - EFFLUENT PUMP STATION
SCALE: 1/4"=1'-0"

EFFLUENT PUMP STATION EQUIPMENT SCHEDULE											
MARK	ITEM DESCRIPTION	VOLTS/ PHASE	HP	AMPS	STARTER			DISCONNECT SWITCH			REMARKS
					SIZE	TYPE	LOCATION	SIZE	FUSE	LOCATION	
P-1	SEWAGE PUMP	480/3	50	65A	50HP	VFD	CONTROL PANEL	N/A	N/A	N/A	VFD SUPPLIED WITH PUMP STATION CONTROL PANEL
P-2	SEWAGE PUMP	480/3	50	65A	50HP	VFD	CONTROL PANEL	N/A	N/A	N/A	VFD SUPPLIED WITH PUMP STATION CONTROL PANEL
P-3	SEWAGE PUMP	480/3	50	65A	50HP	VFD	CONTROL PANEL	N/A	N/A	N/A	VFD SUPPLIED WITH PUMP STATION CONTROL PANEL



PUMP STATION POWER RISER DIAGRAM
SCALE: NONE

GENERAL NOTES

- REFER TO SHEET E-201 FOR ELECTRICAL SITE PLAN.
- REFER TO SHEET E-202 FOR SCADA SYSTEM PLAN.
- REFER TO SHEET E-203 FOR POWER RISER DIAGRAM.
- REFER TO SHEET E-205 FOR MECHANICAL EQUIPMENT SCHEDULE AND CONTROL PANEL SCHEDULE FOR CONDUIT AND WIRE REQUIREMENTS.
- REFER TO SHEET E-206 FOR PANELBOARD SCHEDULES.
- REFER TO SPECIFICATIONS FOR CONDUIT AND CONDUCTOR GENERAL REQUIREMENTS.

NUMBERED NOTES

- CONTROL CIRCUIT(S) TO WET WELL. PROVIDE A MINIMUM OF TWO (2) 1" CONDUITS. PROVIDE CONTROL CONDUCTORS FOR PUMP SEAL FAILURES, FLOAT(S), TRANSDUCER, ETC. AS REQUIRED. VERIFY QUANTITY AND TYPE OF CONTROL CONDUCTORS WITH CONTROL SYSTEM SUPPLIER BEFORE INSTALLATION.
- SUBMERSIBLE PUMPS FEEDER CIRCUITS. (TYPICAL)
- UNDERGROUND POWER FEEDER TO PANEL "DPB". REFER TO SHEET E-203 FOR POWER RISER DIAGRAM CONDUIT & WIRE SCHEDULE.
- UNDERGROUND SCADA CABLES TO RTU-4. REFER TO SPECIFICATIONS.
- JUNCTION BOX, NEMA 4X FIBERGLASS WITH TERMINAL BLOCKS FOR POWER & CONTROL CABLES. SIZE AS REQUIRED. SEAL ALL CONDUITS ENTERING WETWELL PER SPECIFICATIONS.
- EXPLOSIVE GAS SEAL OFF FITTINGS (TYPICAL FOR POWER & CONTROL CONDUITS).
- (3) #2 THWN, (1) #8 THWN (G), 1 1/2" CONDUIT PER PUMP FEEDER.