



SYRACUSE DIVISION

PLANS FOR

REHABILITATION OF THE WASTEWATER TREATMENT

PLANT

AT

PORT BYRON SERVICE AREA

AT

MILEPOST 310.00±

IN

CAYUGA COUNTY

TAS 26-28A D215118
44 SHEETS

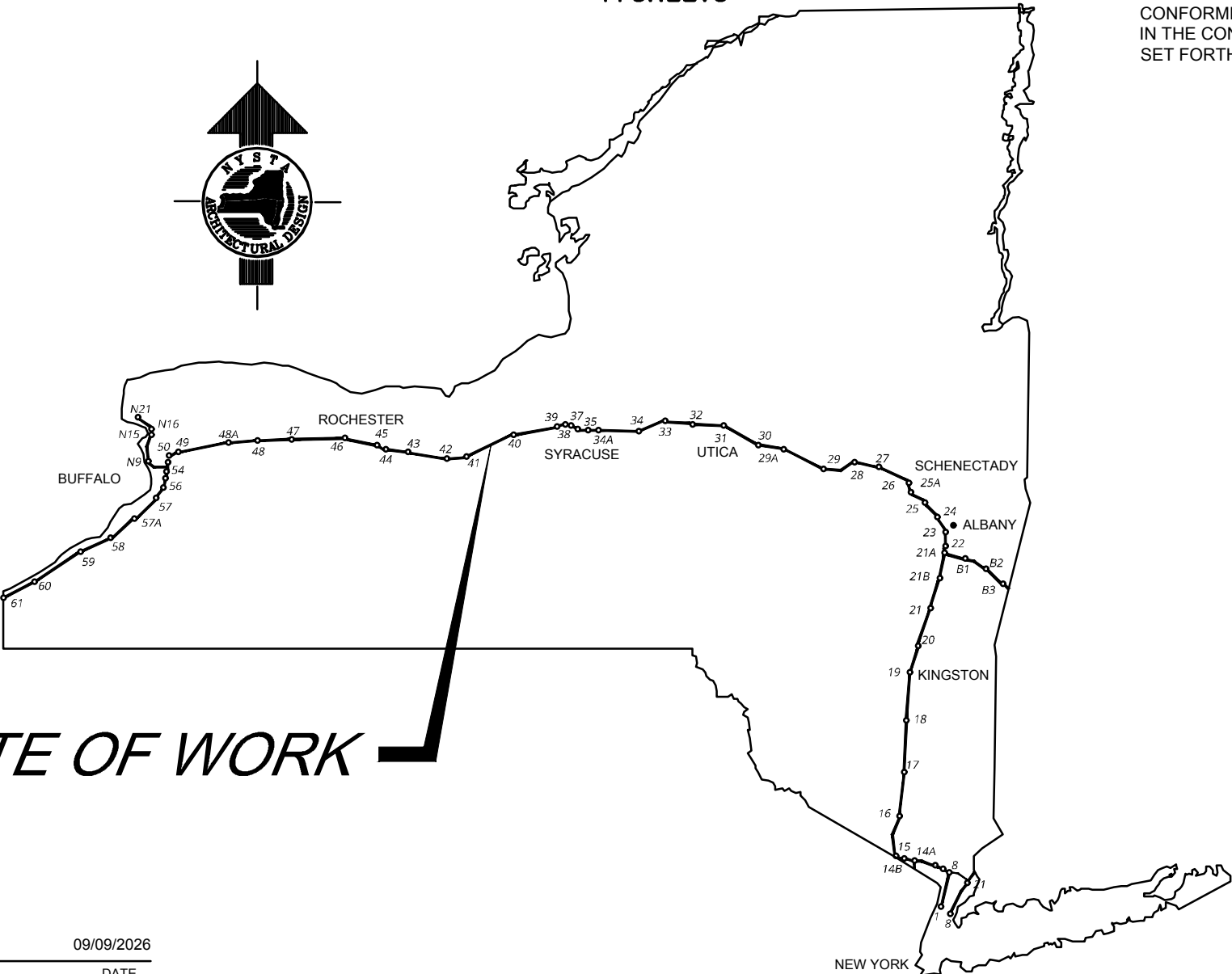
UDIG NEW YORK
UNDERGROUND FACILITIES PROTECTION ORGANIZATION
CALL 811

TYPE OF CONSTRUCTION:
INSTALLATION AND REHABILITATION OF SANITARY FACILITIES FOR THE IMPROVEMENTS
TO THE WASTEWATER TREATMENT PLANT AT THE PORT BYRON SERVICE AREA

CODE COMPLIANCE:
ALL WORK DESCRIBED AND TO BE PERFORMED UNDER THIS CONTRACT, SHALL
CONFORM TO THE PROVISIONS OUTLINED BY 19 NYCRR, THE NEW YORK STATE
UNIFORM FIRE PREVENTION AND BUILDING CODE(s) AND ITS REFERENCE STANDARDS.

BUILDING CLASSIFICATIONS:
OCCUPANCY CLASSIFICATION: N/A
CONSTRUCTION CLASSIFICATION: N/A

NOTES:
ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN
CONFORMITY WITH THE STANDARD SPECIFICATIONS (US CUSTOMARY) REFERENCED
IN THE CONTRACT "PROPOSAL" EXCEPT AS MODIFIED BY THESE PLANS OR CHANGES
SET FORTH IN THE CONTRACT "PROPOSAL".



CONTRACTOR'S NAME:	
AWARD DATE:	
COMPLETION DATE:	
FINAL ACCEPTANCE DATE:	
INSPECTION FIRM'S NAME:	
RESIDENT ENG./EIC:	
FINAL COST TOTAL:	
FISCAL SHARE	COST(S)
INSPECTION FIRM:	
CONSULTANT STAMP:	

RECOMMENDED BY: [Signature] 09/09/2026
DIRECTOR, OFFICE OF DESIGN
96911BB0CE9E4EB...

RECOMMENDED BY: [Signature]
DIVISION DIRECTOR
231E6A92B8F14F3...

RECOMMENDED BY: [Signature] 09/10/2026
TRAFFIC ENGINEER
A7201EA3D432495...

RECOMMENDED BY: [Signature] 09/09/2026
DIRECTOR, OFFICE OF CONSTRUCTION
MANAGEMENT

RECOMMENDED BY: [Signature] 09/10/2026
CHIEF MAINTENANCE AND
OPERATIONS OFFICER

APPROVED BY: [Signature] 09/14/2026
CHIEF ENGINEER
301E5D84F9B44A7...

PREPARED AND RECOMMENDED BY: [Signature] DATE 08/14/2026
COLLIERS ENGINEERING & DESIGN
JOSEPH B. AWALD, P.E.
LICENSE NUMBER: 089707

INDEX OF SHEETS		
DWG. NO.	TITLE	SHT. NO.
-	TITLE SHEET	1 OF 44
GN-1	INDEX OF SHEETS, LOCATION MAP, SPDES PARAMETERS AND LEGEND	2 OF 44
GN-2	GENERAL NOTES	3 OF 44
GN-3	PROJECT DESCRIPTION NOTES	4 OF 44
C-1	EXISTING SITE CONDITIONS & DEMOLITION PLAN	5 OF 44
C-2	SITE IMPROVEMENTS & YARD PIPING PLAN	6 OF 44
C-3	CIPP LINING PLAN	7 OF 44
M-1	PROCESS FLOW DIAGRAM	8 OF 44
M-2 TO M-3	HYDRAULIC PROFILE	9-10 OF 44
M-4	INFLUENT PUMP STATION DEMOLITION PLAN AND SECTION	11 OF 44
M-5	INFLUENT PUMP STATION PROPOSED PLAN AND SECTION	12 OF 44
M-6	HEADWORKS PROPOSED PLAN AND SECTION	13 OF 44
M-7	FLOW DIVERSION STRUCTURE DEMOLITION PLAN AND SECTION	14 OF 44
M-8	FLOW DIVERSION STRUCTURE PROPOSED PLAN AND SECTION	15 OF 44
M-9	CONTROL BUILDING DEMOLITION PLAN AND SECTIONS	16 OF 44
M-10	CONTROL BUILDING PROPOSED PLAN AND SECTIONS	17 OF 44
M-11	TRICKLING FILTER DEMOLITION SECTIONS	18 OF 44
M-12	TRICKLING FILTER PROPOSED SECTIONS AND DETAILS	19 OF 44
M-13	TRICKLING FILTER PROPOSED ACCESS STAIRS AND PLATFORM	20 OF 44
M-14 TO M-17	TRICKLING FILTER PROPOSED DETAILS	21-24 OF 44
M-18	SECONDARY CLARIFIER DEMOLITION AND PROPOSED PLANS	25 OF 44
M-19	DOSING CHAMBER DEMO PLAN AND SECTION	26 OF 44
M-20	DOSING CHAMBER PROPOSED PLAN AND SECTION	27 OF 44
M-21	SAND FILTER BEDS DEMOLITION AND PROPOSED SECTIONS	28 OF 44
M-22	EQUALIZATION TANK DEMOLITION PLAN AND SECTION	29 OF 44
M-23	EQUALIZATION TANK PROPOSED PLAN AND SECTION	30 OF 44
SD-1 TO SD-4	SITE DETAILS	31-34 OF 44
E-1	ELECTRICAL LEGEND	35 OF 44
E-2	ELECTRICAL SITE PLAN	36 OF 44
E-3	ELECTRICAL POWER FLOOR PLAN	37 OF 44
E-4	SCHEDULES	38 OF 44
ED-1	ELECTRICAL DEMOLITION PLAN	39 OF 44
FA001-FA002	FIRE ALARM NOTES	40-41 OF 44
FA101	FIRE ALARM PLAN	42 OF 44
FA501-FA502	FIRE ALARM DETAIL	43-44 OF 44

ALTERED ON:

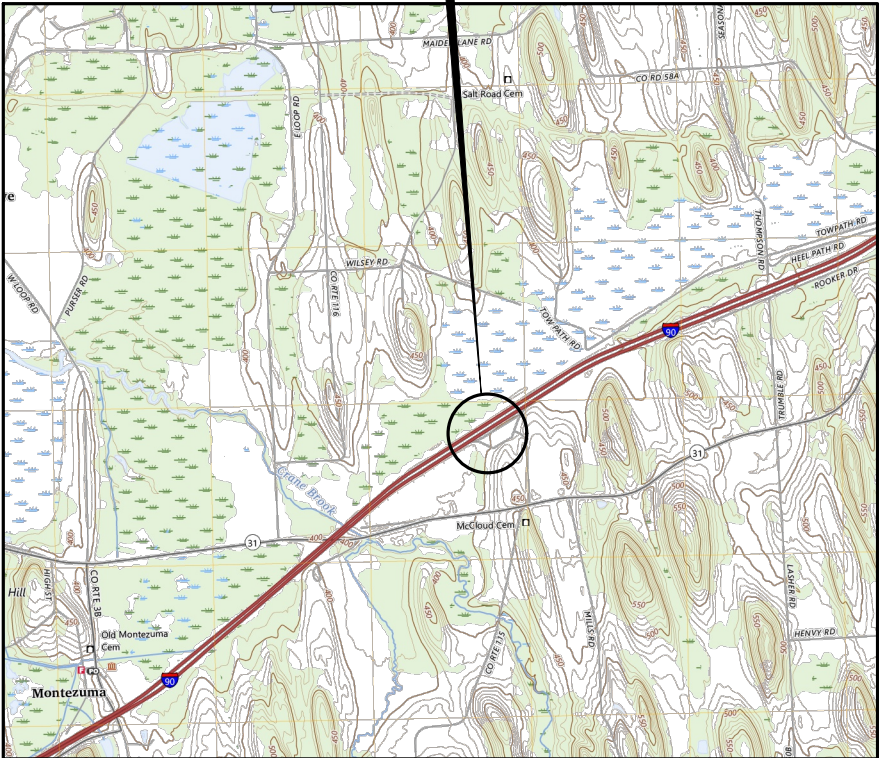
SIGNATURE:
STAMP:

AFFIRMED ON:
08/14/2026



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

PORT BYRON SERVICE AREA
MILEPOST 310.0



LOCATION MAP
SCALE 1"=4,000'

PORT BYRON WWTP SPDES EFFLUENT LIMITATIONS			
EFFLUENT PARAMETER	30 DAY ARITHMETIC MEAN	7 DAY ARITHMETIC MEAN	DAILY MAXIMUM VALUE
FLOW (GPD)	40,000	-	-
BIOCHEMICAL OXYGEN DEMAND, 5 DAY (BOD ₅) (mg/L)	-	-	10
BIOCHEMICAL OXYGEN DEMAND, 5 DAY (BOD ₅) (LBS/DAY)	-	-	3.3
TOTAL SUSPENDED SOLIDS (TSS) (mg/L)	30	45	-
TOTAL SUSPENDED SOLIDS (TSS) (LBS/DAY)	10	15	-
SETTLEABLE SOLIDS (ML/L)	-	-	0.30
pH (DAILY MAX - DAILY MIN)	6.0 - 9.0		

EXISTING

PROPOSED

TRaverse LINE, CENTER LINE OR BASELINE (LABEL AS SUCH)

RIGHT OF WAY LINE

PROPERTY LINE

EDGE OF PAVEMENT

SIDEWALK

FENCES

TREELINE

ROADWAY SIGNS

WETLAND LINE

STORM INLET

STORM MANHOLE

SANITARY MANHOLE

FLARED END SECTION

HEADWALL

HYDRANT

POLE MOUNTED LIGHT

OVER HEAD WIRE

WATER MAIN

GAS MAIN

TELEPHONE CONDUIT

ELECTRIC CONDUIT

SANITARY PIPE

STORM PIPE

SANITARY FORCE MAIN

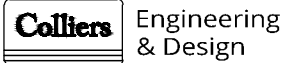
CHECK VALVE

GATE VALVE

PLUG VALVE

BUTTERFLY VALVE

TO BE DEMOLISHED



TITLE OF PROJECT
REHABILITATION OF WASTEWATER TREATMENT PLANT

LOCATION OF PROJECT
MP 310.00 EASTBOUND
PORT BYRON SERVICE AREA

TITLE OF DRAWING
INDEX OF SHEETS, LOCATION MAP,
SPDES PARAMETERS AND LEGEND

CONTRACT NUMBER:
TAS 26-28A

DATE:
08/14/2026

DRAWING NUMBER:
GN-1

PW:/

CHECKED BY: JBA / RAP

DRAFTED BY: SMB /

CHECKED BY: JBA / RAP

DESIGNED BY: ERE / SWB

DESIGN SUPERVISOR: JBA

GENERAL NOTES

REFERENCE NOTES

- 1. CONSTRUCTION DRAWINGS ARE BASED ON TOPOGRAPHIC, PROPERTY AND UTILITY SURVEY PREPARED BY COLLIER'S ENGINEERING & DESIGN ON 7/15/2025 AND BY HISTORICAL AND RECORD DRAWINGS PROVIDED BY THRUWAY AUTHORITY.
- 2. THE LOCATION, NATURE AND ALIGNMENT OF UNDERGROUND UTILITIES ARE BASED ON HISTORIC AND RECORD DRAWINGS, AND UTILITY EVIDENCE VISIBLE AT THE GROUND SURFACE AND ARE CONSIDERED TO BE SCHEMATIC ONLY.
- 3. THE SURVEY INFORMATION DOES NOT CLAIM TO SHOW ALL UNDERGROUND UTILITIES. OTHERS MAY EXIST IN THE WORK AREA. IDENTIFICATION OF ALL UTILITIES IN THE WORK AREA SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

WASTEWATER DISPOSAL

- 1. INFLUENT WASTEWATER SHALL BE TEMPORARILY STORED WITHIN THE EXISTING SLUDGE HOLDING TANK WHILE THE WASTEWATER TREATMENT PLANT PROCESSES ARE UNDER CONSTRUCTION AND / OR OFFLINE. SEE PROJECT DESCRIPTION ON FOLLOWING SHEET FOR DETAILS ON TEMPORARY WASTEWATER STORAGE.
- 2. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT INFLUENT WASTEWATER SHALL BE HAULED OFF BY A LICENSED HAULER TO ANOTHER REGULATED WASTEWATER TREATMENT PLANT WHILE THE WASTEWATER TREATMENT PLANT PROCESSES ARE UNDER CONSTRUCTION AND / OR ARE OFFLINE. RESPONSIBILITY, INCLUDING BUT NOT LIMITED TO, ALL COST INCURRED FOR STORAGE, TRANSFER, HAULING AND DISPOSAL OF THE WASTEWATER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 3. COORDINATE CONSTRUCTION OPERATIONS WITH WASTEWATER HAULING TO ENSURE SUFFICIENT STORAGE CAPACITY IS MAINTAINED WITHIN THE EXISTING SLUDGE HOLDING TANK.
- 4. CONSTRUCTION/HAULING SHALL BE LIMITED TO THE WINTER MONTHS OF DECEMBER-MARCH DURING WHICH INFLUENT FLOWS TO THE WWTP WILL BE LOWER. SEE NEXT SHEET FOR MONTHLY FLOW DATA.

COORDINATION

- 1. DURING THE CONSTRUCTION PERIOD COORDINATE ACTIVITIES, INCLUDING USE OF THE SITE, TO MINIMIZE INTERFERENCE WITH THE ONGOING THRUWAY AND TRAVEL PLAZA OPERATIONS. CONTRACTOR'S ACTIVITIES ARE SUBJECT TO PRIOR APPROVAL OF THE THRUWAY AUTHORITY.

LAYOUT

- 1. THE THRUWAY AUTHORITY WILL DETERMINE LOCATIONS OF CONTRACTOR STAGING AND LAYDOWN AREAS, THE SITE HAS LIMITED SPACE FOR PARKING, MATERIAL AND EQUIPMENT. AT PROJECT COMPLETION, RESTORE ANY AREAS DISTURBED BY STAGING, PARKING, OR OTHER CONSTRUCTION ACTIVITIES TO THEIR ORIGINAL CONDITION.
- 2. ESTABLISH BENCHMARKS FOR SURVEY CONTROL AND MAINTAIN FOR THE DURATION OF CONSTRUCTION ACTIVITIES. PROTECT AND MAINTAIN BENCHMARKS DURING CONSTRUCTION.

CONFINED ENTRY NOTE:

- 1. CONTRACTOR IS REQUIRED TO SUBMIT A LIST OF VESSELS REQUIRING CONFINED ENTRY DURING CONSTRUCTION TO THE THRUWAY AUTHORITY'S CODES COMPLIANCE OFFICER.

- 2. CONTRACTOR SHALL FOLLOW ALL PROPER OSHA REGULATIONS FOR ENTRANCE INTO CONFINED SPACES.

EXISTING CONDITIONS

- 1. VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD BEFORE COMMENCING WORK. IMMEDIATELY NOTIFY THE THRUWAY AUTHORITY OF ANY DISCREPANCIES.
- 2. CONTRACTOR IS ADVISED OF THE PRESENCE OF METHANE, PROPANE, AND OTHER POTENTIALLY FLAMMABLE GASES AT THE SITE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO CHECK FOR CONCENTRATIONS OF FLAMMABLE VAPORS / GASES BEFORE CONDUCTING ANY ACTIVITY (WELDING, CUTTING, TORCHING, ETC.) THAT COULD CAUSE IGNITION OF THOSE GASES.
- 3. PROTECT FROM DAMAGE ALL EXISTING FEATURES NOT INDICATED OR REQUIRED TO BE REMOVED FOR THE WORK.
- 4. REPAIR ITEMS THAT ARE TO REMAIN IF DAMAGED DURING THE PERFORMANCE OF THE WORK. REPAIR OR REPLACE TO THEIR ORIGINAL CONDITION AS DETERMINED BY THE THRUWAY AUTHORITY, OR REPLACE WITH NEW IN-KIND.

EXISTING UTILITIES

- 1. THE LOCATION OF UTILITIES INDICATED ON THE SITE SURVEY AND DRAWINGS ARE APPROXIMATE ONLY. ACCURATELY LOCATE SUBSURFACE UTILITIES BEFORE EXCAVATING.
- 2. PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES, CONTACT UDIG-NY AT 1-800-962-7962 OR 811 FOR INFORMATION ON EXISTING UNDERGROUND UTILITIES.
- 3. PERFORM EXCAVATION IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.
- 4. SLOPE OR SUPPORT THE SIDES OF ALL EXCAVATIONS AS REQUIRED BY LOCAL, STATE AND FEDERAL SAFETY REGULATIONS.
- 5. EXISTING WATER SUPPLY PIPING AND APPURTENANCES WHICH ARE CUT, TAPPED, OR OTHERWISE DISTURBED DURING CONSTRUCTION SHALL BE PROTECTED FROM CONTAMINATION AND DISINFECTED AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.

SPOILS

- 1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT NO SPOIL AREA IS AVAILABLE FOR THIS CONTRACT WITHIN THE THRUWAY'S RIGHT-OF -WAY. THEREFORE, ALL SPOIL MATERIAL (INCLUDING WASTEWATER, WASH WATERS, CONCRETE, METAL, SOIL, AND SLUDGE) REMOVED FROM THE JOB SITE SHALL BE DISPOSED OF, BY THE CONTRACTOR, OFF OF THE THRUWAY'S PROPERTY. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS THAT APPLY TO THE OFF-STE AREA CHOSEN FOR THIS SPOIL MATERIAL. ALL COST ASSOCIATED WITH THE REMOVAL AND LAWFUL DISPOSAL OF ALL SPOIL MATERIAL OFF THRUWAY PROPERTY SHALL BE INCLUDED IN THE BID.

DEMOLITION

- 1. CONDUCT REMOVAL OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT EXISTING FEATURES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AND AUTHORIZED VEHICLES AROUND THE WORK AREA.
- 2. PROVIDE CONSTRUCTION FENCES, BARRICADES OR OTHER SUITABLE DEVICES AS DIRECTED BY THE THRUWAY AUTHORITY TO PREVENT DAMAGE BY VEHICLES AND UNAUTHORIZED ENTRY INTO WORK, CONSTRUCTION STAGING AND EQUIPMENT STORAGE AREAS.
- 3. PROVIDE ALL REMOVALS INCIDENTAL TO AND NECESSARY TO PROVIDE THE WORK OF THIS CONTRACT AND LEGALLY DISPOSE OF OFF-SITE. REMOVE EXISTING FEATURES AND UNUSED EARTH MATERIALS INCLUDING EXCESS TOPSOIL IN THEIR ENTIRETY UNLESS OTHERWISE INDICATED BY THE THRUWAY AUTHORITY.

- 4. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS AND TRASH OFF-SITE. DO NOT ALLOW DEBRIS TO ACCUMULATE ON-SITE. THERE SHALL BE NO BURIAL OF RUBBLE OR REUSE AS BACKFILL.
- 5. UTILIZE SAW-CUTS IN AREAS WHERE PAVEMENT IS TO BE REMOVED FOR INSTALLATION OF IMPROVEMENTS AND WHERE NEW PAVEMENT IS JOINED WITH EXISTING. TREAT ALL JOINTS BETWEEN NEW AND EXISTING ASPHALT PAVEMENT WITH AN ASPHALT EMULSION.
- 6. REMOVE EXISTING TREES AND VEGETATION AS REQUIRED TO INSTALL IMPROVEMENTS. NOT ALL TREE REMOVALS ARE EXPLICITLY IDENTIFIED IN WOODED AREAS. PRIOR TO CONSTRUCTION, STAKE OUT PROPOSED PIPE ROUTING AND STRUCTURE LOCATIONS FOR REVIEW AND APPROVAL BY THE THRUWAY AUTHORITY.
- 7. UNLESS OTHERWISE NOTED, ALL PIPES TO BE ABANDONED SHALL BE ABANDONED IN PLACE BY PLUGGING ENDS WITH CONCRETE.
- 8. ENDS OF PIPES ENTERING MANHOLES / STRUCTURES TO BE ABANDONED SHALL BE PLUGGED WITH 2 FT. OF CONCRETE. AFTER REMOVAL OF EQUIPMENT, ALL STRUCTURES TO BE ABANDONED SHALL BE CUT AND REMOVED A MINIMUM OF 3' BELOW GRADE AND REMAINING STRUCTURE SHALL HAVE HOLES CORED THE BOTTOM SLAB AND FILLED WITH CLEAN STONE.

PIPING

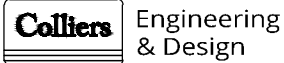
- 1. MINIMUM COVER ON SANITARY SEWER PIPES SHALL BE 5'-0", UNLESS NOTED OTHERWISE.
- 2. ALL WATER AND SEWER LINES TO BE INSTALLED IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE WATER MAIN/SEWER CROSSING DETAIL PROVIDED IN THE CONTRACT DOCUMENTS.
- 3. ALL VERTICAL AND HORIZONTAL BENDS MAY NOT BE DEPICTED ON THE DRAWINGS.
- 4. PROVIDE ALL NECESSARY FITTINGS AND ADAPTERS THAT ARE REQUIRED TO CONNECT DIFFERENT TYPES OF PIPING MATERIAL.

SITE WORK

- 1. PROVIDE A MINIMUM OF 4 INCHES OF NEW TOPSOIL AND SEEDING, AND MAINTAIN LAWN GROUND COVER UNTIL CONCLUSION OF THE PROJECT.
- 2. AT PROJECT COMPLETION, RESTORE ANY SITE AREA OR FEATURE DISTURBED DURING CONSTRUCTION TO ORIGINAL CONDITION AS DETERMINED BY THRUWAY AUTHORITY.
- 3. PROVIDE AND MAINTAIN EROSION CONTROL MEASURES AS INDICATED ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS FOR THE DURATION OF THE PROJECT.
- 4. PROVIDE AND MAINTAIN TEMPORARY FENCING AS INDICATED ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS FOR THE DURATION OF THE PROJECT.
- 5. PROVIDE AND MAINTAIN ACCESS TO THE SLUDGE HOLDING TANK FOR THE LICENSED HAULER TO PUMP EFFLUENT FROM SLUDGE HOLDING TANKS.

LEAD HANDLING NOTES:

- 1. PERFORM HANDLING AND DISPOSAL OF ALL LEAD-CONTAINING MATERIALS/PAINTS AND MATERIALS COATED WITH LEAD-CONTAINING PAINT IN ACCORDANCE WITH OSHA WORKER PROTECTION STANDARDS (29 CFR PART 1926.62) AND OTHER APPLICABLE REGULATIONS. REFER TO THE LIMITED HAZARDOUS MATERIAL SURVEY REPORT PROVIDED IN THE CONTRACT DOCUMENTS.
- 2. PROVIDE ALL NECESSARY DROP CLOTHS, DUST BARRIERS, AND CONTAINMENT STRUCTURES TO PREVENT THE SPREAD OF DUST FROM WORK AREA AND PREVENT LEAD EXPOSURE TO THE PUBLIC AND ENVIRONMENT.

ALTERED ON:		AFFIXED ON: 08/14/2026					
SIGNATURE: STAMP:		SIGNATURE: STAMP:					
							
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		DATE	DESCRIPTION	BY	SYM.		
				TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT		CONTRACT NUMBER: TAS 26-28A	
				LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA		DATE: 08/14/2026	
				TITLE OF DRAWING GENERAL NOTES		DRAWING NUMBER: GN-2	

PORT BYRON PROJECT DESCRIPTION

THE FOLLOWING IS A GENERALIZED OUTLINE OF THE SCOPE OF WORK, MORE COMPLETELY DESCRIBED ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS:

PORT BYRON WASTEWATER TREATMENT PLANT OPERATION

- 1. COORDINATE ALL WORK WITH THE THRUWAY AUTHORITY.
- 2. CONSTRUCTION ACTIVITIES, TEMPORARY BYPASS MEASURES, AND OPERATIONAL ADJUSTMENTS SHALL BE COORDINATED WITH THE THRUWAY AUTHORITY FOR THE DURATION OF THE CONTRACT TO MAINTAIN THE OPERATION OF THE WASTEWATER TREATMENT PLANT IN CONFORMANCE WITH THE CONDITIONS OF THE EXISTING NEW YORK "STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) PERMIT."
- 3. WORK CLOSELY WITH THRUWAY AUTHORITY PERSONNEL RESPONSIBLE FOR THE OPERATION OF THE WASTEWATER TREATMENT PLANT TO ENSURE THAT THE NYSDEC SPDES PERMIT CONDITIONS, INCLUDING, BUT NOT LIMITED TO, EFFLUENT LIMITS ARE COMPLIED WITH FOR THE DURATION OF THE CONTRACT.
- 4. ALL COSTS INCURRED BY THE THRUWAY AUTHORITY FOR ANY VIOLATION OF THE SPDES PERMIT CAUSED BY THE ACTIONS OF THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. A COPY OF THE SPDES PERMIT IS INCLUDED IN THE CONTRACT DOCUMENTS.
- 5. THE CONTRACTOR SHALL HAUL OFF FOR DISPOSAL INFLUENT WASTEWATER TO ANOTHER REGULATED WASTEWATER TREATMENT PLANT WHILE THE WASTEWATER TREATMENT PLANT PROCESSES ARE UNDER CONSTRUCTION AND/OR ARE OFFLINE. ALL COST INCURRED FOR STORAGE, TRANSFER, HAULING AND DISPOSAL OF THE WASTEWATER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

GENERAL SITE

- 1. REPLACE ALL EXISTING YARD VALVES. CONTRACTOR TO VERIFY ALL VALVE SIZES.
- 2. SITE WORK INCLUDING CUT AND FILL, GRADING, TOPSOIL AND SEEDING AS NEEDED.
- 3. REMOVE OLD AND INSTALL NEW PIPING BY CUT AND COVER AS DETAILED ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS.

EXISTING SLUDGE HOLDING TANK

- 1. PRIOR TO ANY WORK ON THE IMPROVEMENTS IN WHICH THE PROCESSES ARE TAKEN OFFLINE, THE EXISTING TANK SHALL BE DRAINED AND CLEANED.
- 2. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OFF-SITE ALL MATERIAL IN THE TANKS AND ANY WASH WATER UTILIZED.
- 3. FOLLOWING CLEANING, THE FACILITY MAY BE USED AS A HOLDING TANK FOR THE PLANT INFLUENT.
- 4. CONTRACTOR SHALL PROVIDE TEMPORARY GRAVITY PIPING FROM THE PLANT FLOW DIVERSION STRUCTURE TO THE TANK. SEE FLOW DIVERSION STRUCTURE FOR FURTHER DETAILS.
- 5. CONTRACTOR SHALL REMOVE THE INFLUENT WASTEWATER OFF-SITE AS NOTED ABOVE ON A CONTINUING BASIS ALLOWING NO MORE THAN **7,500** GALLONS OF STORAGE AT ANY TIME. RECENT FLOW RECORDS INDICATE AN AVERAGE DAILY FLOW OF 2,000 GPD, AND A MAX DAILY FLOW OF 10,000 GPD.
- 6. FOLLOWING COMMISSIONING OF THE NEW PLANT, CONTRACTOR SHALL CLEAN THE TANK AND REMOVE ALL SEWAGE FROM THE TANK FOR OFF-SITE DISPOSAL, CORE FOUR (4) 8-INCH DIAMETER

HOLES FULL DEPTH IN THE TANK BOTTOM CONCRETE SLAB, DEMOLISH THE TANK AND ALL COMPONENTS TO 3-FEET BELOW FINISHED GRADE, AND FILL THE STRUCTURE WITH CLEAN STONE.

- 7. STONE SHALL BE COVERED WITH A WOVEN FILTER FABRIC COVERED BY 1-FOOT OF COMMON FILL AND 4" TOPSOIL. SEE DETAIL ON SD-4.

FLOW DIVERSION STRUCTURE

- 1. TEMPORARILY PLUG THE TWO (2) EXISTING EFFLUENT PIPES AND CORE DRILL AND PROVIDE TEMPORARY GRAVITY PIPE TO CONNECT TO EXISTING SLUDGE HOLDING TANK.

INFLUENT PUMP STATION

- 1. REPLACE ONE (1) SUBMERSIBLE PUMP WITH A NEW SOLIDS HANDLING PUMP WITH MIXING VALVE.

HEADWORKS STRUCTURE

- 1. MODIFY GRINDER CHANNEL TO BETTER HANDLE LOW FLOWS.

EQUALIZATION TANK & SLUDGE HOLDING TANK

- 1. EXISTING EQUALIZATION TANK SHALL BE SPLIT INTO TWO CHAMBER.
- 2. CHAMBER NO. 1 TO REMAIN AS EQUALIZATION TANK. CHAMBER NO. 2 SHALL BE CONVERTED TO PROPOSED SLUDGE HOLDING TANK.
- 3. REMOVE EXISTING DIFFUSERS AND HEADER PIPING. INSTALL NEW DIFFUSERS AND HEADER PIPING IN CHAMBER NO. 1.
- 4. PROVIDE NEW FRP COVER FOR PROPOSED SLUDGE HOLDING TANK.
- 5. CORE THREE (3) 6" PENETRATIONS TO ALLOW DECANTING FROM PROPOSED SLUDGE HOLDING TANK (CHAMBER NO. 2) TO EQUALIZATION TANK (CHAMBER NO. 1).

SECONDARY CLARIFIER

- 1. REMOVE AND REPLACE CHAIN AND FLIGHT SYSTEM IN THE SECONDARY CLARIFIER AND INSTALL SCUM COLLECTION.

TRICKLING FILTER

- 1. EXISTING ROTATING ARM MECHANISM TO BE REPLACED IN KIND. EXISTING STONE FILTER MEDIA TO BE REPLACED WITH NEW POLYPROPYLENE MEDIA. EXISTING ROOF SHALL BE REMOVED AND REPLACED WITH PREFABRICATED ALUMINUM DOME . BLOWER VENT AND CEILING LIGHTS TO BE REPLACED.

ELECTRICAL / CONTROL BUILDING

- 1. REMOVE ALL PUMPS, ELECTRICAL CONTROLS AND OTHER RELATED EQUIPMENT AND APPURTENANCES.
- 2. PROVIDE NEW PUMPS, PIPING, CONTROLS, EQUIPMENT AND APPURTENANCES FOR THE PROPOSED SYSTEM.
- 3. REMOVE AND REPLACE TRICKLING FILTER FEED PUMPS, SLUDGE PUMPS, CONTROLS, AND PIPING.
- 4. INSTALL NON-SKID FLOORING COATING AND REPAIR / RE-PAINT WALLS.

DOSING CHAMBER

- 1. REMOVE AND REPLACE THE EXISTING SIPHON SYSTEM WITHIN THE CHAMBER AND ALL CORRESPONDING YARD VALVES.

SAND FILTER BEDS

- 1. REMOVE AND REPLACE-IN-KIND THE EXISTING TIMBERS BORDERING SAND FILTER BEDS.

PORT BYRON WWTP 2024 INFLUENT FLOWS AND LOADING

	PARAMETER	AVERAGE	MAX
	FLOW (GPD)	2,000	10,000
MONTHLY AVERAGE	MAX INF. pH	8.7	8.9
	MAX EFF. pH	7.1	7.8
	INF. SETTLE SOLIDS (mL/L)	136.7	200.0
	EFF. SETTLE SOLIDS (ML/L)	0.1	0.1
MEASURED ONCE PER MONTH	INF. BOD ₅ (mg/L)	820	2010
	EFF. BOD ₅ (mg/L)	3.0	3.1
	INF. SUSPENDED SOLIDS (mg/L)	574	3280
	EFF. SUSPENDED SOLIDS (mg/L)	5	5

PORT BYRON WWTP 2024 - TO DATE MONTHLY FLOWS

MONTH	AVG. FLOW (MGD)	PEAK DAY FLOW (MGD)
SEP-24	0.002	0.005
OCT-24	0.001	0.004
NOV-24	0.002	0.004
DEC-24	0.002	0.004
JAN-25	0.002	0.007
FEB-25	0.002	0.006
MAR-25	0.002	0.006
APR-25	0.002	0.003
MAY-25	0.003	0.010
JUN-25	0.002	0.004
JUL-25	0.002	0.004
AUG-25	0.022	0.004
SEP-25	0.002	0.004
OCT-25	0.002	0.004
NOV-25	0.001	0.005
DEC-25	0.001	0.004
JAN-26	0.002	0.003
FEB-26	0.002	0.008
MAR-26	0.003	0.005
APR-26	0.004	0.013
MAY-26	0.002	0.014

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SIGNATURE: STAMP:



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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT

REHABILITATION OF WASTEWATER TREATMENT PLANT

LOCATION OF PROJECT

MP 310.00 EASTBOUND PORT BYRON SERVICE AREA

TITLE OF DRAWING

PROJECT DESCRIPTION NOTES

CONTRACT NUMBER:

TAS 26-28A

DATE:

08/14/2026

DRAWING NUMBER:

GN-3



DEMOLITION SITE PLAN
SCALE 1"=40'



SCALE : 1" = 40'

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

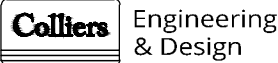
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING EXISTING SITE CONDITIONS & DEMOLITION PLAN	DRAWING NUMBER: C-1

I.D.	ASSET
1	8" PVC GRAVITY PLANT INFLUENT PIPE AND INFLUENT MANHOLE TO REMAIN
2	INFLUENT PUMP STATION TO REMAIN,EXISTING PUMPS TO BE REPLACED WITH TWO (2) NEW SOLIDS HANDLING PUMP WITH MIXING VALVE
3	HEADWORKS STRUCTURE / GRINDER EQUIPMENT TO REMAIN. CHANNEL TO BE MODIFIED
4	FLOW DIVERSION STRUCTURE TO REMAIN. STOP GATE TO BE REPLACED
5	EQUALIZATION TANK BLOWERS AND ENCLOSURES TO BE REPLACED
6	EQUALIZATION TANK TO BE MODIFIED WITH HALF USED AS A SLUDGE HOLDING TANK. DIFFUSERS AND HEADER PIPING TO BE REPLACED
7	PRIMARY CLARIFIER STRUCTURE TO REMAIN
8	PROCESS CONTROL BUILDING (PUMP HOUSE). REMOVE AND REPLACE EXISTING PUMPS AND PIPING IN BASEMENT. ACCESS HATCH TO WET WELL TO BE SEALED AND LEVEL CONTROLS SHALL BE RELOCATED TO BE ACCESSIBLE FROM EXTERNAL DOOR.
9	TRICKLING FILTER CONCRETE STRUCTURE TO REMAIN, EXISTING STAIRS AND ACCESS DOOR TO BE REMOVED. TRICKLING FILTER MECHANISM, ROTATING ARM, MEDIA AND ROOF TO BE REPLACED
10	SECONDARY CLARIFIER STRUCTURE TO REMAIN. CHAIN AND FLIGHT SYSTEM TO BE REPLACED
11	DEMOLISH EXISTING SLUDGE HOLDING TANK - SEE DEMOLITION NOTES BELOW
12	PIPING TO AND FROM SLUDGE HOLDING TANK TO BE REMOVED / ABANDONED
13	PROVIDE TEMPORARY PIPE - SEE DEMOLITION NOTE 2 BELOW
14	EXISTING DOSING CHAMBER TO REMAIN. INTERNALS TO BE MODIFIED
15	EXISTING SAND FILTERS TO REMAIN. TIMBER PERIMETER STAKE FRAMES TO BE REPLACED
16	EXISTING CHLORINE CONTACT TANK TO REMAIN
17	30" ACP GRAVITY PLANT EFFLUENT PIPE TO BE REHABILITATED. SEE SHEET C-3
18	ALL EXISTING YARD VALVES TO BE REPLACED

EXISTING CONDITIONS AND DEMOLITION SCHEDULE

DEMOLITION NOTES:

1. ALL STRUCTURES SCHEDULED FOR DEMOLITION SHALL BE CUT AND REMOVED 3-FEET BELOW GRADE. REMAINING BELOW-GRADE STRUCTURE TO BE ABANDONED SHALL HAVE HOLES CORED IN THE BOTTOM SLAB AND BE FILLED WITH CLEAN STONE. STONE SHALL BE COVERED WITH A WOVEN FILTER FABRIC COVERED BY 1-FOOT OF COMMON FILL AND 4" TOPSOIL.
2. CONTRACTOR SHALL UTILIZE THE EXISTING SLUDGE HOLDING TANK DURING CONSTRUCTION AS A HOLDING TANK FOR INFLUENT FROM THE REST AREA AND PROVIDE REMOVAL OF WASTE EVERY 7,500 GALLONS. REFER TO SLUDGE HOLDING TANK NOTES ON SHEET GN-3 FOR INFORMATION.



PROPOSED SITE PLAN
SCALE 1"=40'



SCALE : 1" = 40'

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

 	TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
	LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
	TITLE OF DRAWING SITE IMPROVEMENTS & YARD PIPING PLAN	DRAWING NUMBER: C-2

I.D.	ASSET	PROPOSED IMPROVEMENT
1	INFLUENT GRAVITY PIPE AND MANHOLE	NONE
2	INFLUENT PUMP STATION	INSTALL ONE (1) NEW SOLIDS HANDLING PUMP WITH MIXING VALVE
3	HEADWORKS STRUCTURE	GRINDER CONCRETE CHANNEL TO BE NARROWED / MODIFIED
4	FLOW DIVERSION STRUCTURE	INSTALL NEW ALUMINUM STOP GATE ON EFFLUENT TO EQ TANK WITH ABOVE GRADE OPERATING WHEEL
5	EQUALIZATION TANK BLOWERS	BLOWERS AND ENCLOSURES TO BE REPLACED.
6.A	EQUALIZATION TANK CHAMBER 1	REPLACE AIR HEADER PIPE, DIFFUSERS, RETURN PUMPS, AND PUMP CONTROL PANEL
6.B	EQUALIZATION TANK CHAMBER 2	CONVERT TO NEW SLUDGE HOLDING TANK
7	PRIMARY CLARIFIER	NONE
8	PROCESS CONTROL BUILDING (PUMP HOUSE)	INSTALL NEW TRICKLING FILTER PUMPS, SLUDGE PUMPS, AND ASSOCIATED PIPING. SEAL HATCH BETWEEN WET WELL AND PUMP ROOM. SEE NOTE 3 BELOW. INSTALL NEW FIRE PROTECTION SYSTEM
8.A	PROCESS CONTROL BUILDING (PUMP HOUSE)	INSTALL NEW WET WELL RE-CIRCULATION PIPING. SEE SHEET M-10 FOR DETAILS
9	TRICKLING FILTER	INSTALL NEW TRICKLING FILTER MECHANISM, ROTATING ARM, AND PLASTIC MEDIA. INSTALL ALUMINUM DOME WITH NEW ACCESS DOOR/PLATFORM
10	SECONDARY CLARIFIER	REPLACE CHAIN AND FLIGHT SYSTEM WITH 4 POINT SYSTEM. INSTALL NEW SCUM COLLECTION PIPE, SCUM BOX, SKIMMER, AND CONNECT SCUM PIPING TO EXISTING SLUDGE PIPING
11	DOSING CHAMBER	REPLACE SIPHON SYSTEM AND CORRESPONDING VALVES TO ALLOW EVEN DISTRIBUTION OF FLOWS
12	SAND FILTER BEDS	REPLACE TIMBERS BORDERING THE FILTER BEDS IN-KIND.
13	CHLORINE CONTACT CHAMBER	NONE
14	30" ACM EFFLUENT GRAVITY PIPE	70 LF OF 30" ACP PIPE TO BE REPAIRED VIA CIPP LINING. REFER TO SHEET C-3 FOR DETAILS
15	SLUDGE PIPING	INSTALL NEW 6" SLUDGE PIPING AND YARD VALVE FROM PUMP DISCHARGE TO SLUDGE HOLDING TANK
16	FACILITY YARD VALVES	INSTALL ALL NEW FACILITY YARD VALVES. SEE NOTE 2 BELOW.

PROPOSED IMPROVEMENTS SCHEDULE

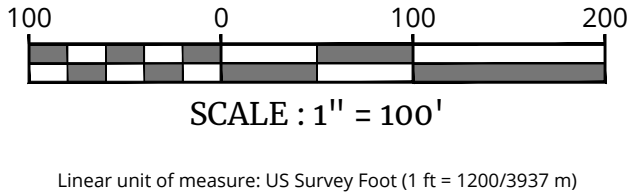
NOTES:

1. THE NUMBERED ASSETS IN THE ABOVE TABLE ARE SPECIFIC TO THIS SHEET ONLY.
2. ALL YARD VALVES ARE TO BE REPLACED. CONTRACTOR SHALL VERIFY ALL SIZES. SAW CUT, REMOVE, AND REPLACE EXISTING ASPHALT / CONCRETE PAVEMENT AS NECESSARY TO PERFORM VALVE REPLACEMENTS. IF SOIL IS DISTURBED, FILL EXCAVATION WITH COMMON FILL AND 4" TOPSOIL.
3. INTERIOR HATCH BETWEEN WET WELL AND PUMP ROOM TO BE FILLED WITH CONCRETE AND SEALED WITH SIKA SWELLSTOP OR APPROVED EQUAL. LEVEL CONTROL FLOATS ADJACENT TO INTERIOR HATCH SHALL BE RELOCATED AND MADE ACCESSIBLE FROM EXTERIOR ACCESS DOOR. COORDINATE WITH OPERATIONS STAFF ON LOCATION OF FLOATS,
4. REFER TO SHEETS FA-001 TO FA-502 FOR FIRE ALARM SYSTEM INFORMATION

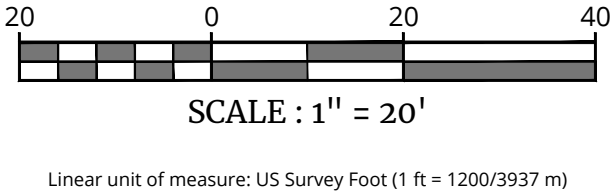
PW:/
DESIGNED BY: ERE / SMB
CHECKED BY: JBA / RAP
DRAFTED BY: SMB /
CHECKED BY: JBA / RAP
DESIGN SUPERVISOR: JBA



OVERALL LOCATION MAP
SCALE 1"=100'



CIPP LINING PLAN
SCALE 1"=20'



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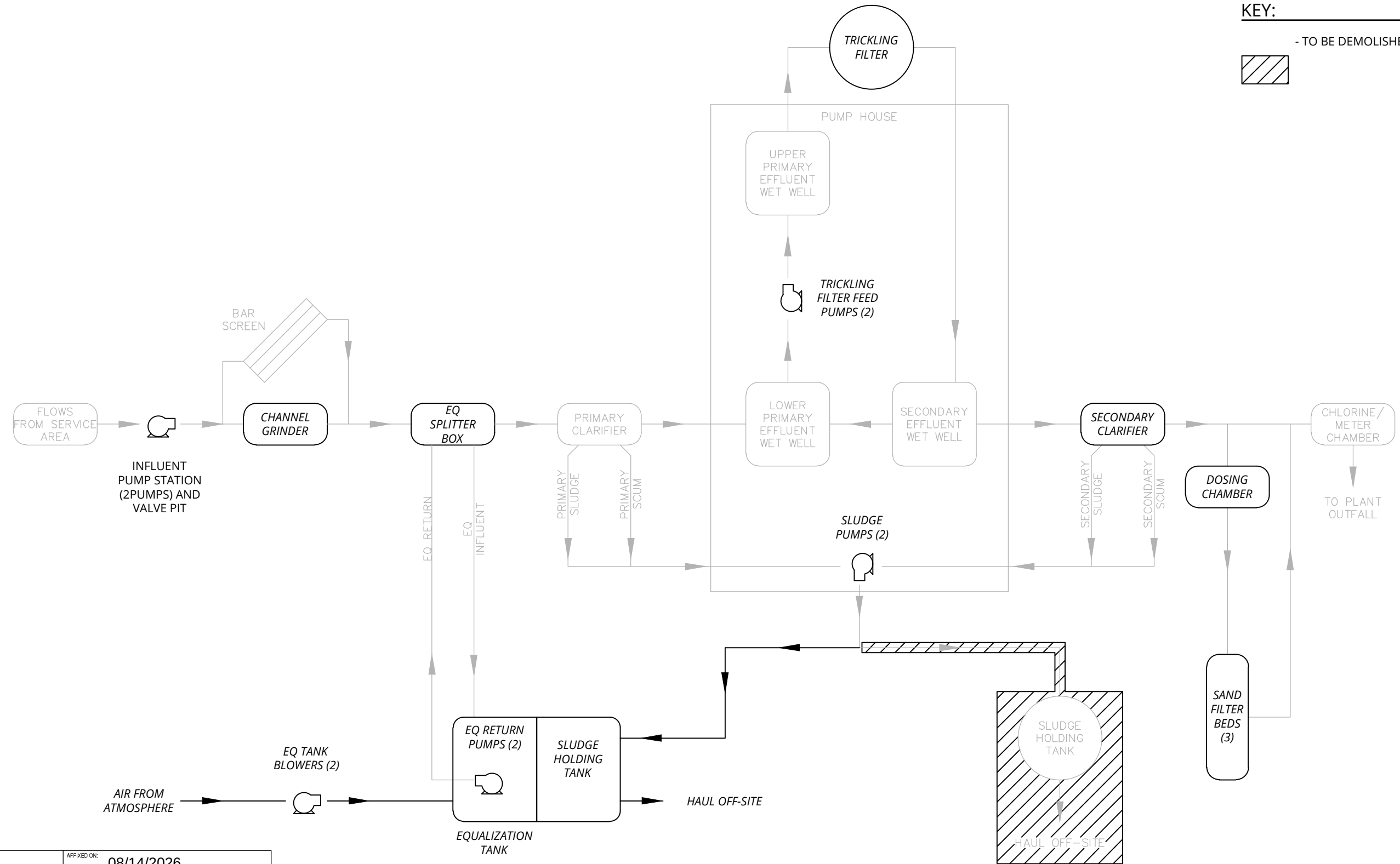
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING CIPP LINING PLAN	DRAWING NUMBER: C-3

KEY:

- TO BE DEMOLISHED

PROCESS FLOW DIAGRAM
SCALE: NONE

ALTERED ON:	AFFIXED ON: 08/14/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP: 

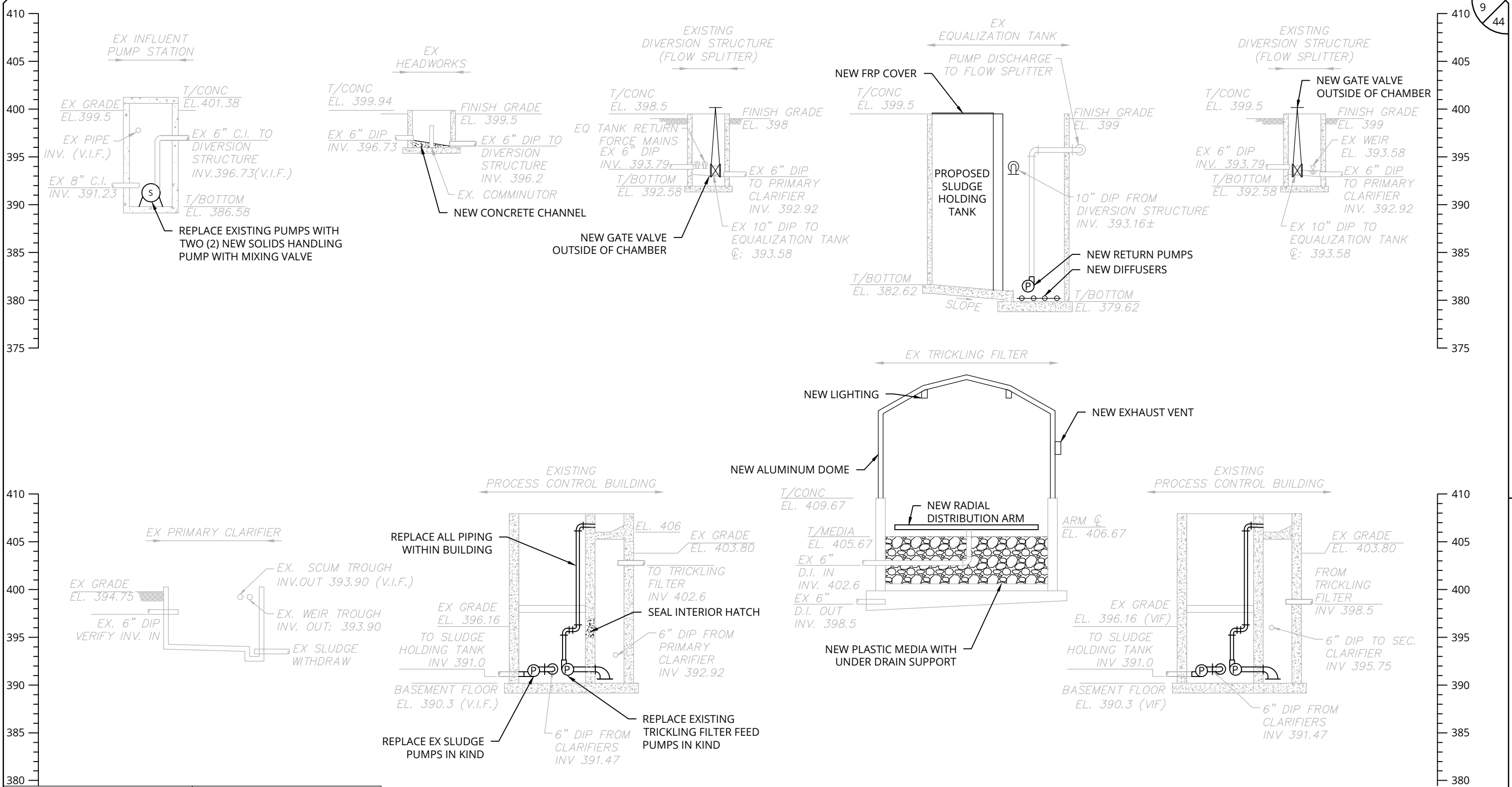
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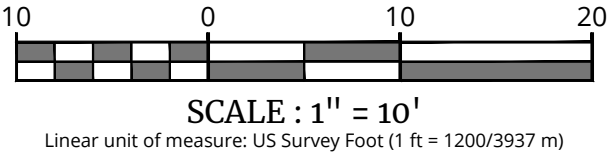


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LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING PROCESS FLOW DIAGRAM	DRAWING NUMBER: M-1

PW:/
CHECKED BY: JBA / RAP
DRAFTED BY: SMB /
CHECKED BY: JBA / RAP
DESIGNED BY: ERE / SMB
DESIGN SUPERVISOR: JBA



HYDRAULIC PROFILE
SCALE: VERT - 1"=10'
HORIZ - NONE



ALTERED ON:

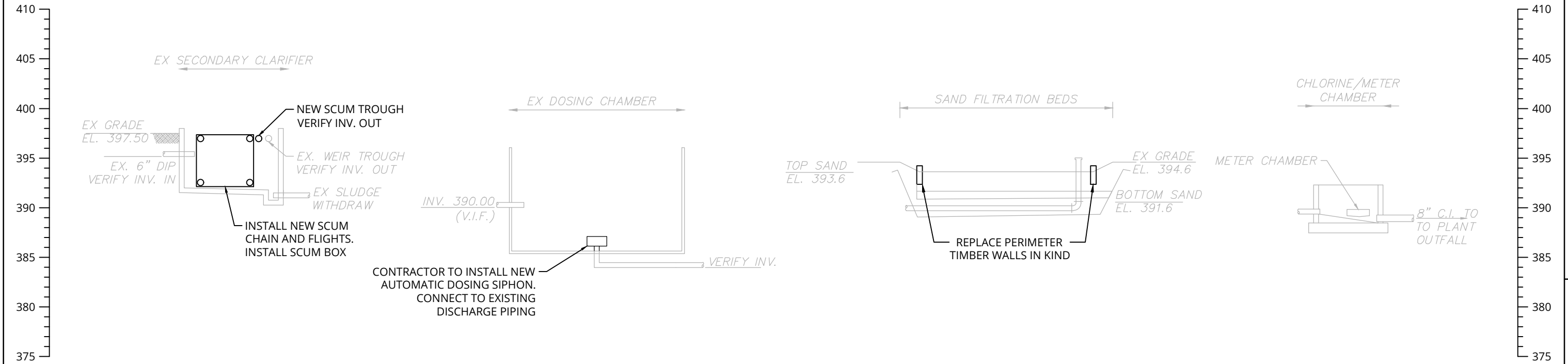
08/14/2026

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DATE	DESCRIPTION	BY	SYM.

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LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING HYDRAULIC PROFILE	DRAWING NUMBER: M-2

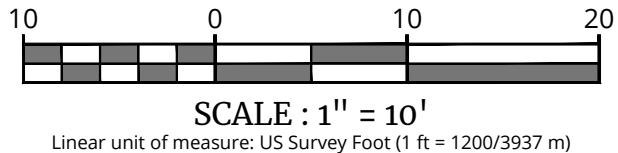


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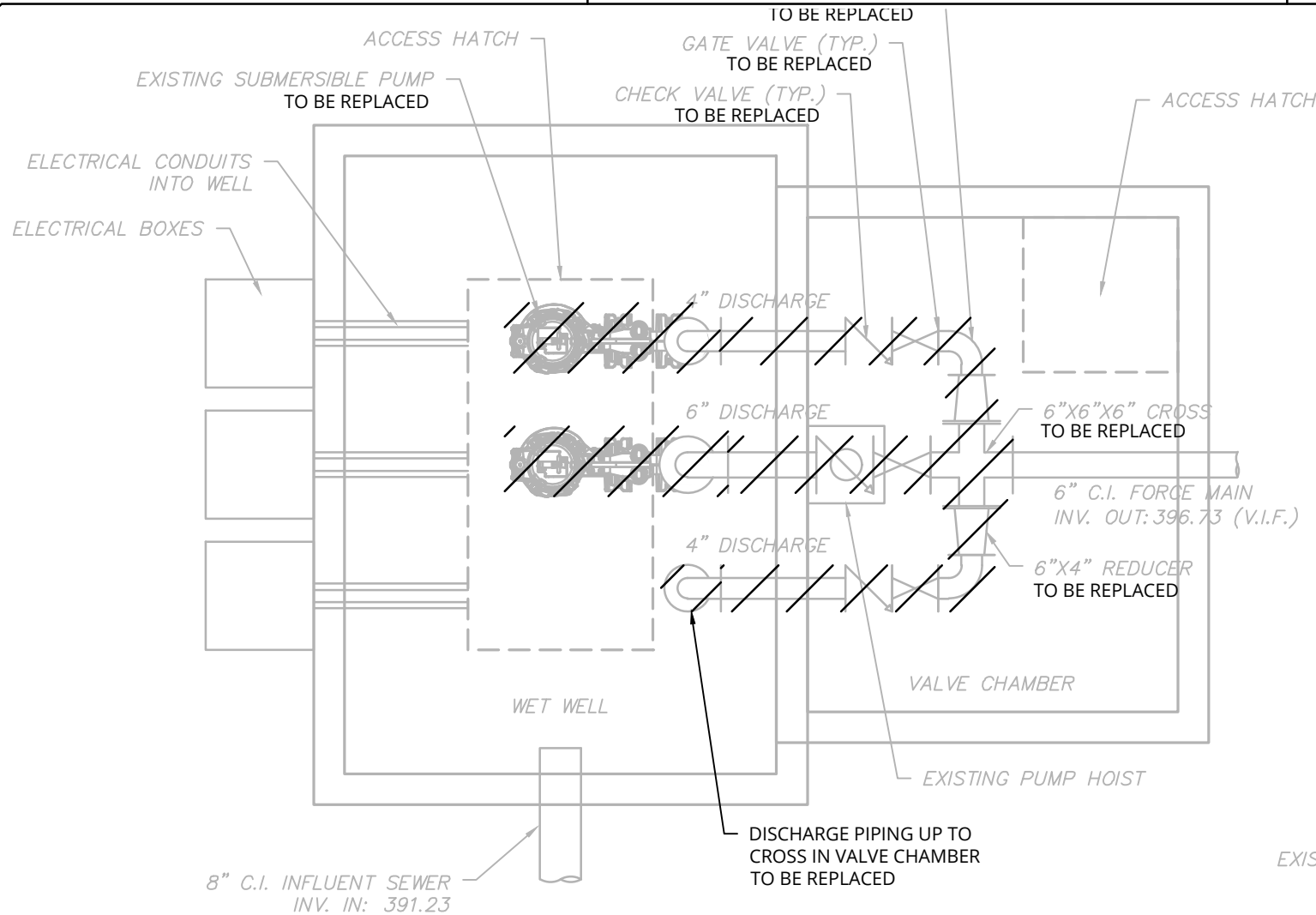
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HORIZ - NONE



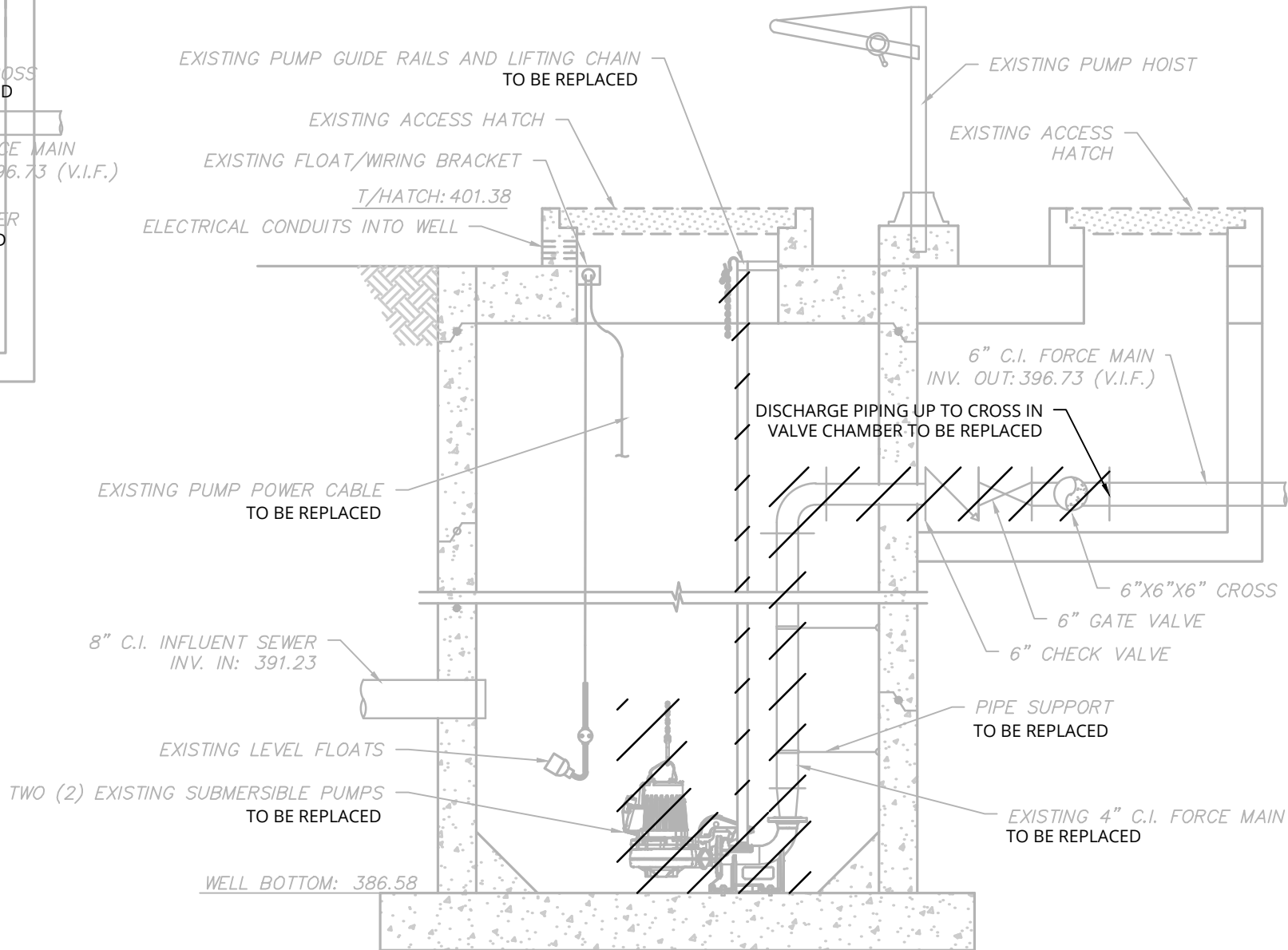
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LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING HYDRAULIC PROFILE	DRAWING NUMBER: M-3

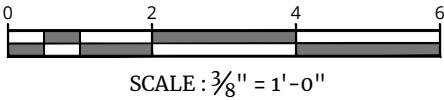


INFLUENT PUMP STATION DEMOLITION PLAN
NOT TO SCALE



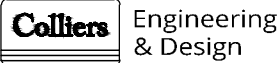
INFLUENT PUMP STATION DEMOLITION SECTION
NOT TO SCALE

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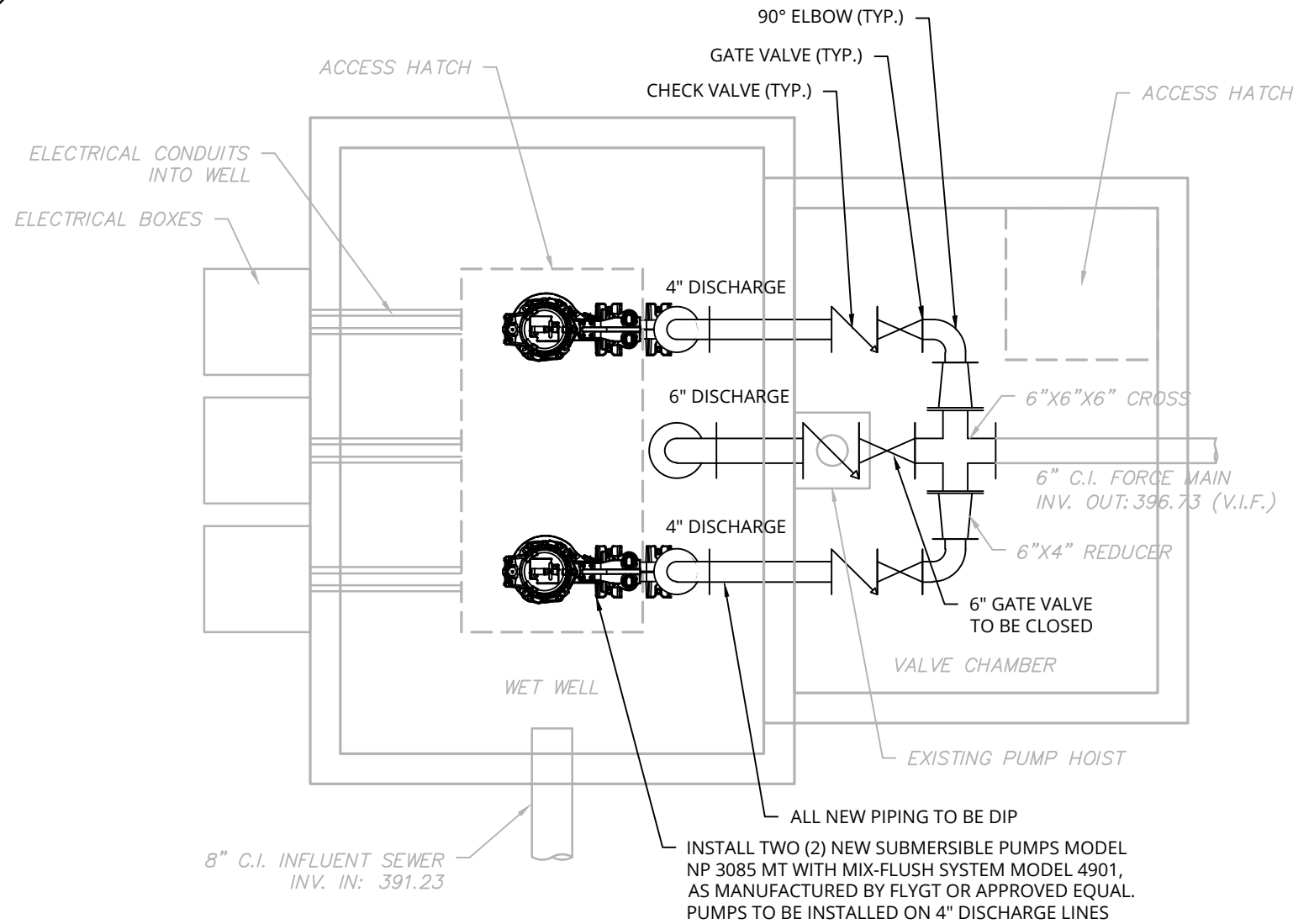


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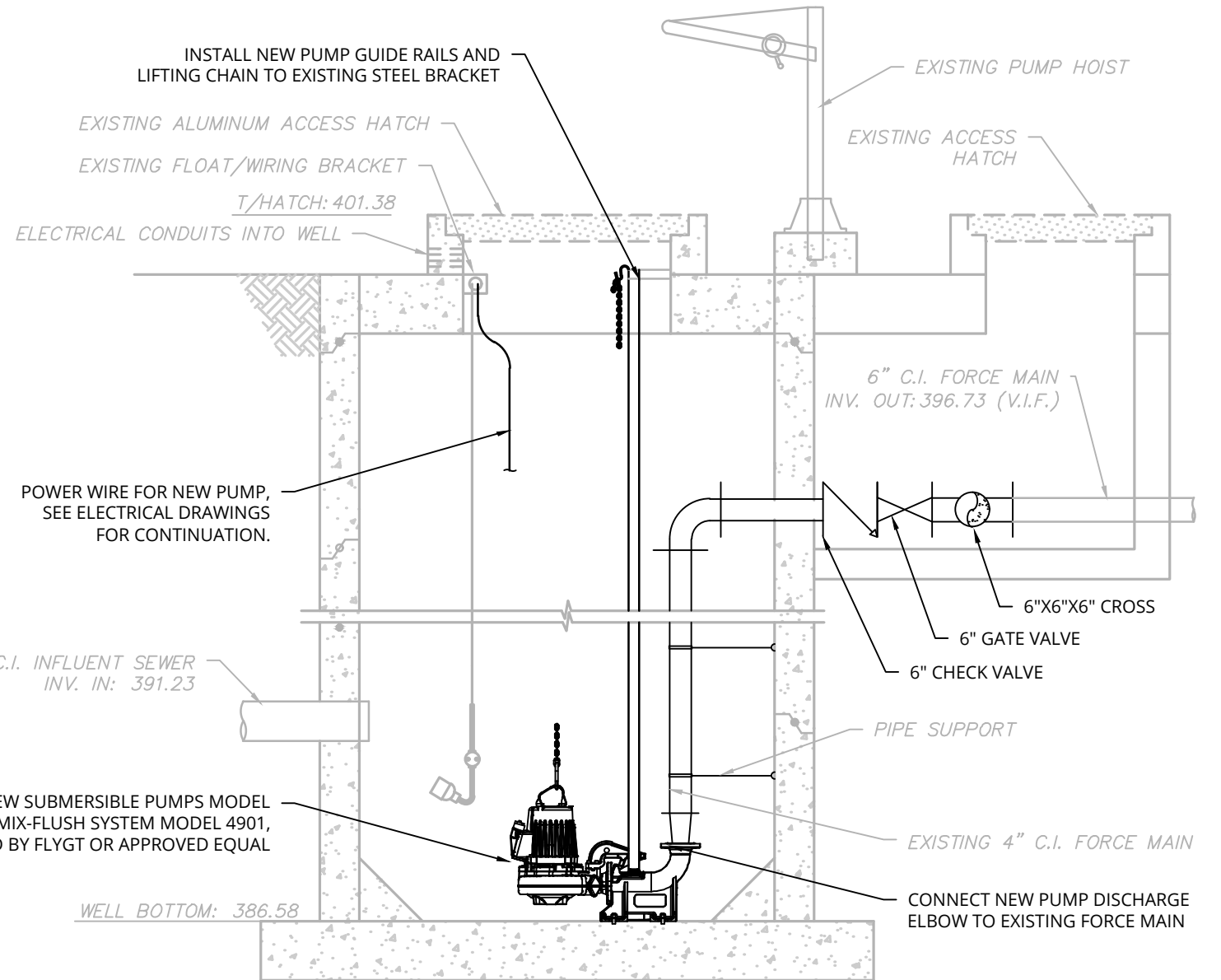
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DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING INFLUENT PUMP STATION DEMOLITION PLAN AND SECTION	DRAWING NUMBER: M-4

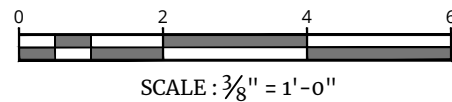


INFLUENT PUMP STATION PROPOSED PLAN
NOT TO SCALE



INFLUENT PUMP STATION PROPOSED SECTION
NOT TO SCALE

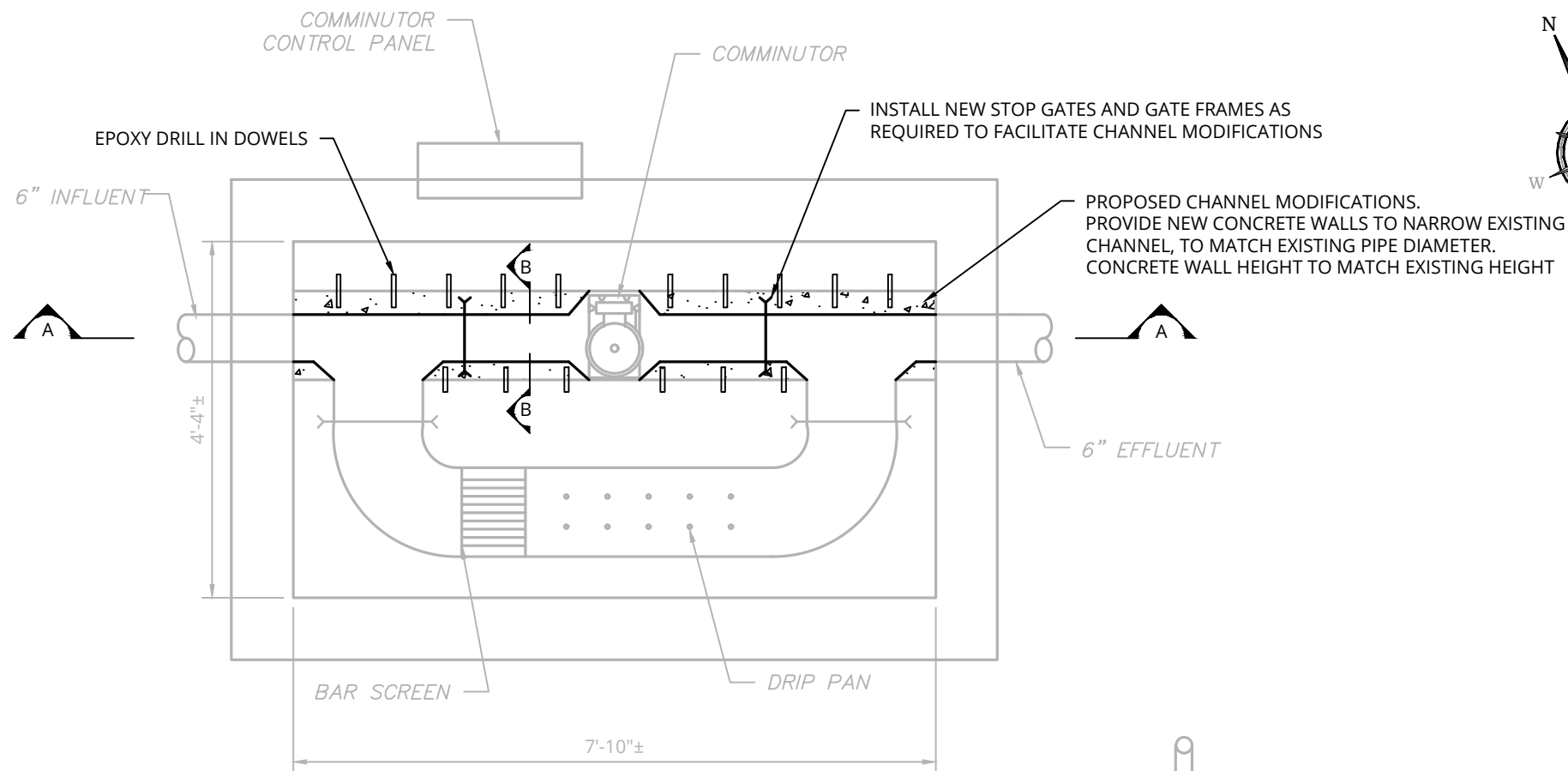
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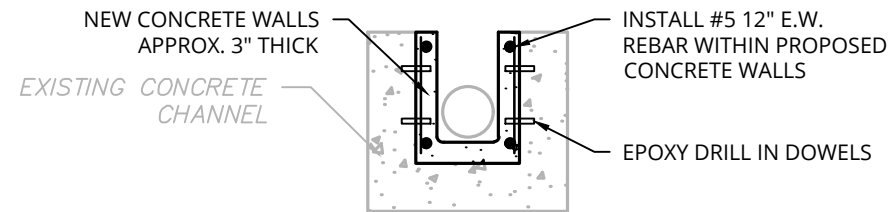
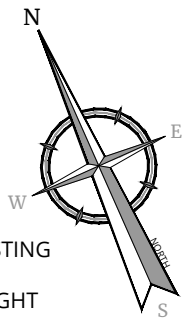
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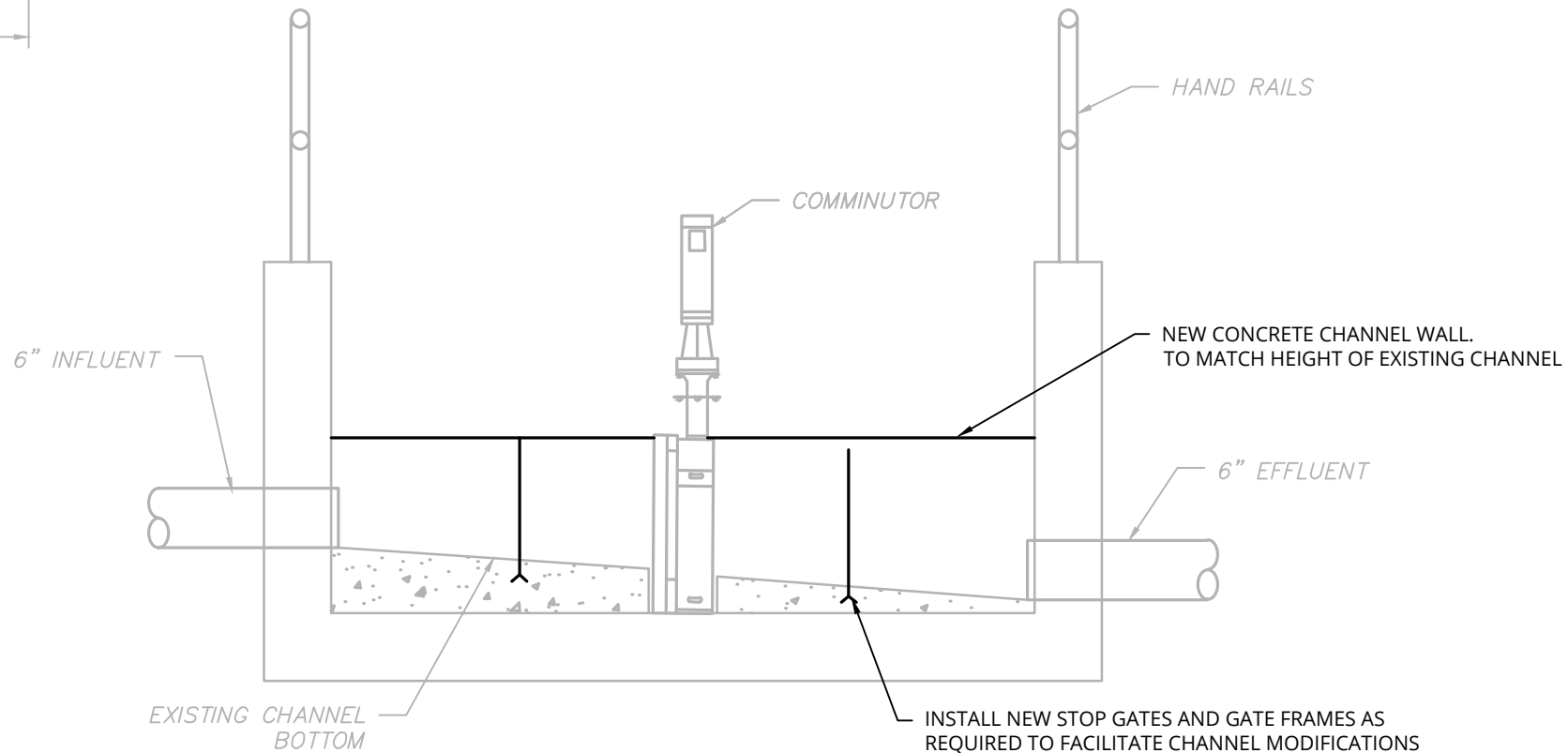
TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING INFLUENT PUMP STATION PROPOSED PLAN AND SECTIONS	DRAWING NUMBER: M-5



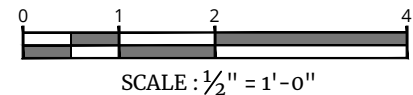
HEADWORKS PROPOSED PLAN
SCALE: 1/2"=1'



HEADWORKS PROPOSED SECTION 'B-B'
SCALE: 1/2"=1'



HEADWORKS PROPOSED SECTION 'A-A'
SCALE: 1/2"=1'



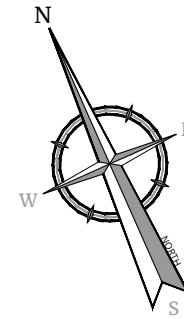
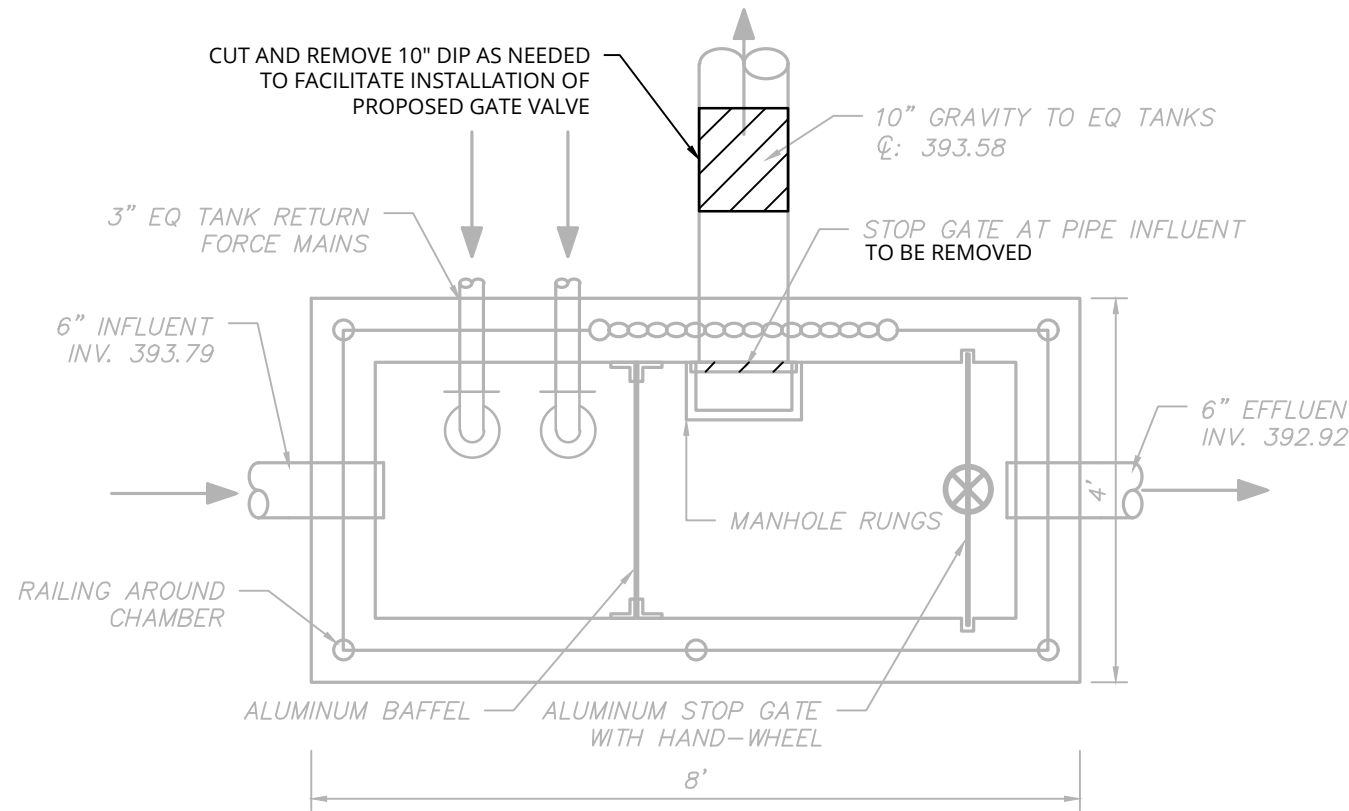
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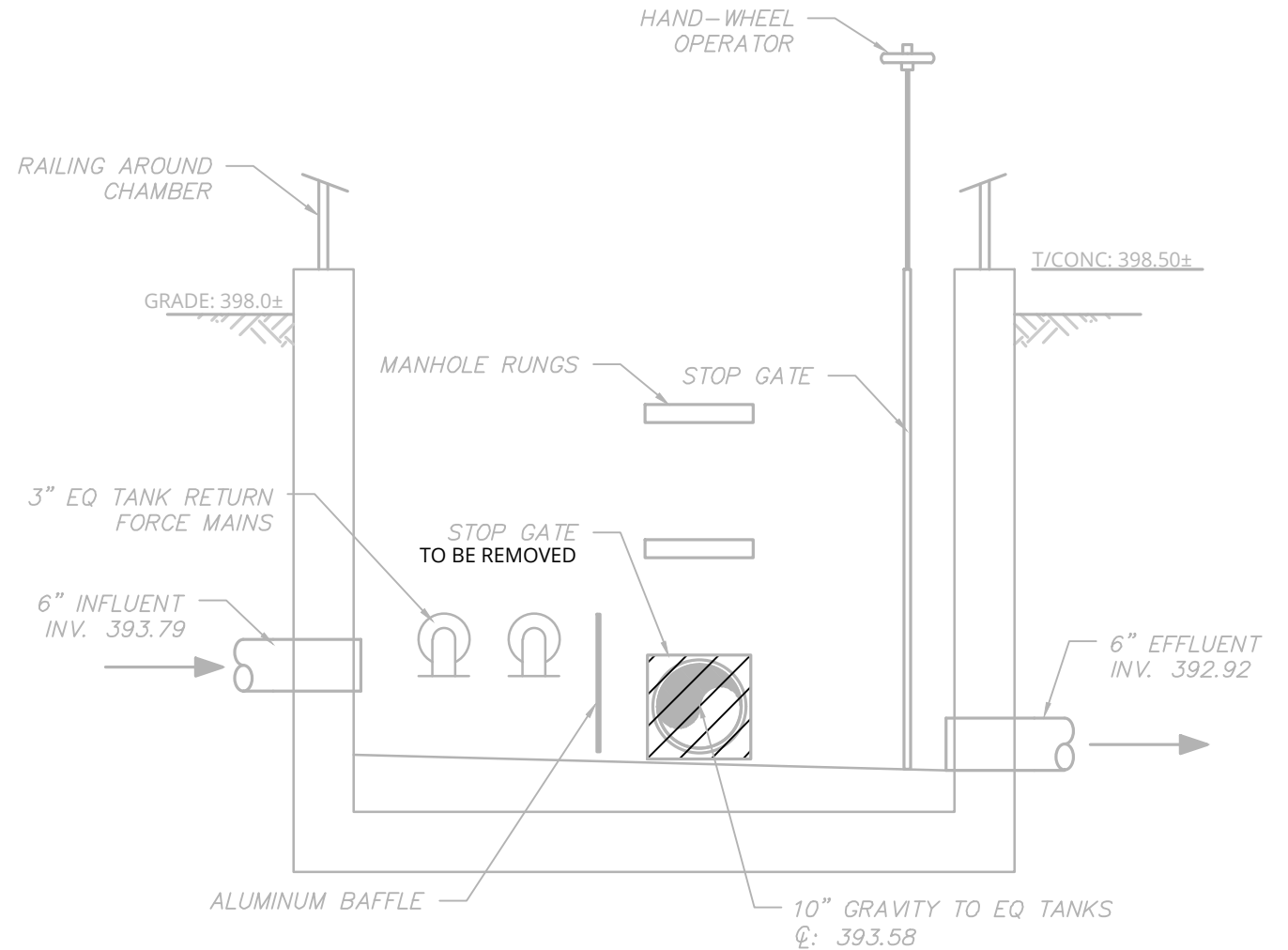


TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING HEADWORKS PROPOSED PLAN AND SECTION	DRAWING NUMBER: M-6



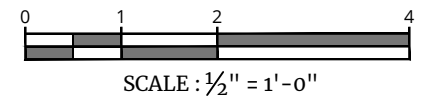
FLOW DIVERSION STRUCTURE DEMOLITION PLAN

SCALE: 1/2"=1'



FLOW DIVERSION STRUCTURE DEMOLITION SECTION

SCALE: 1/2"=1'



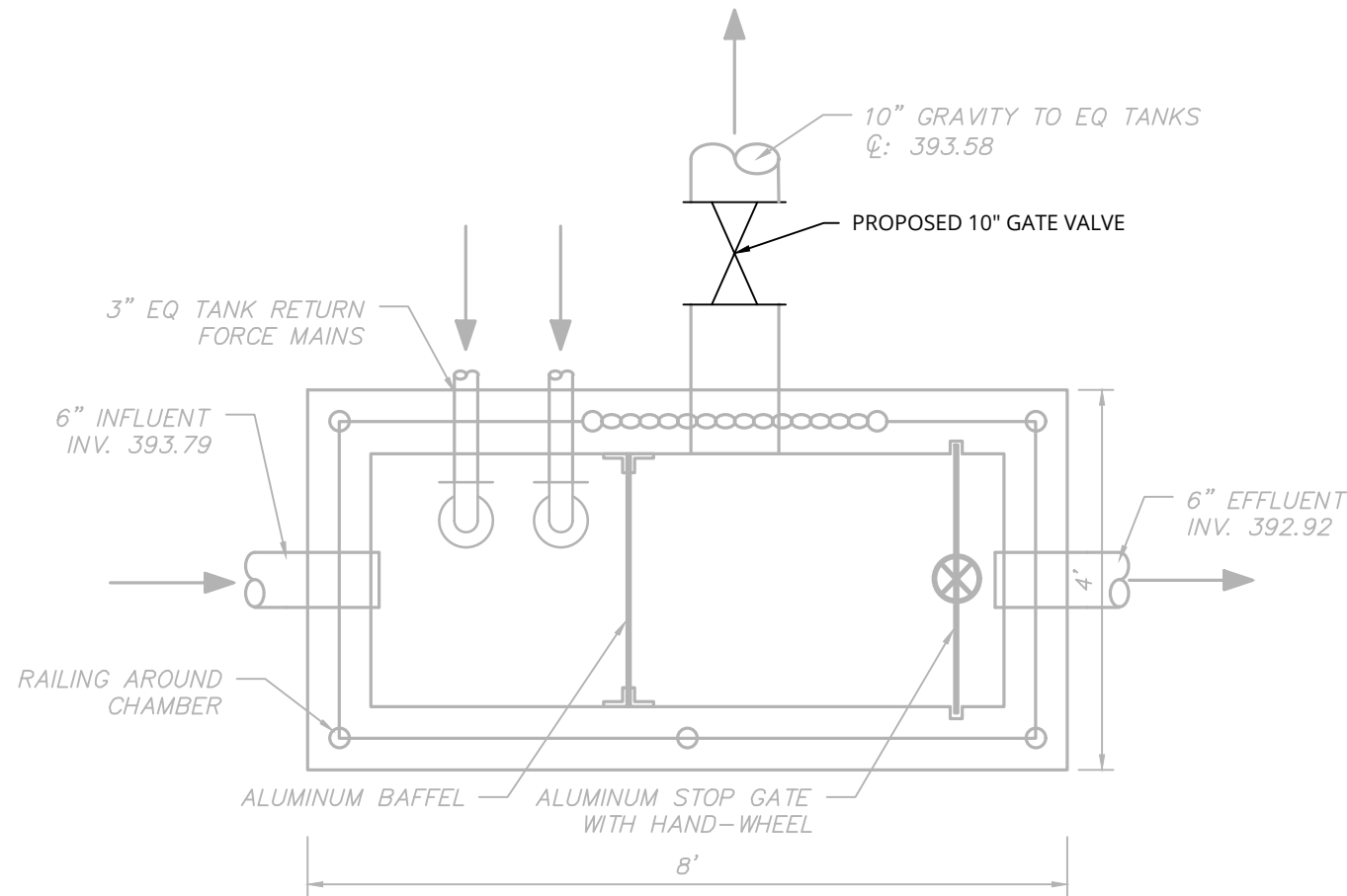
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SIGNATURE: STAMP:	SIGNATURE: STAMP:

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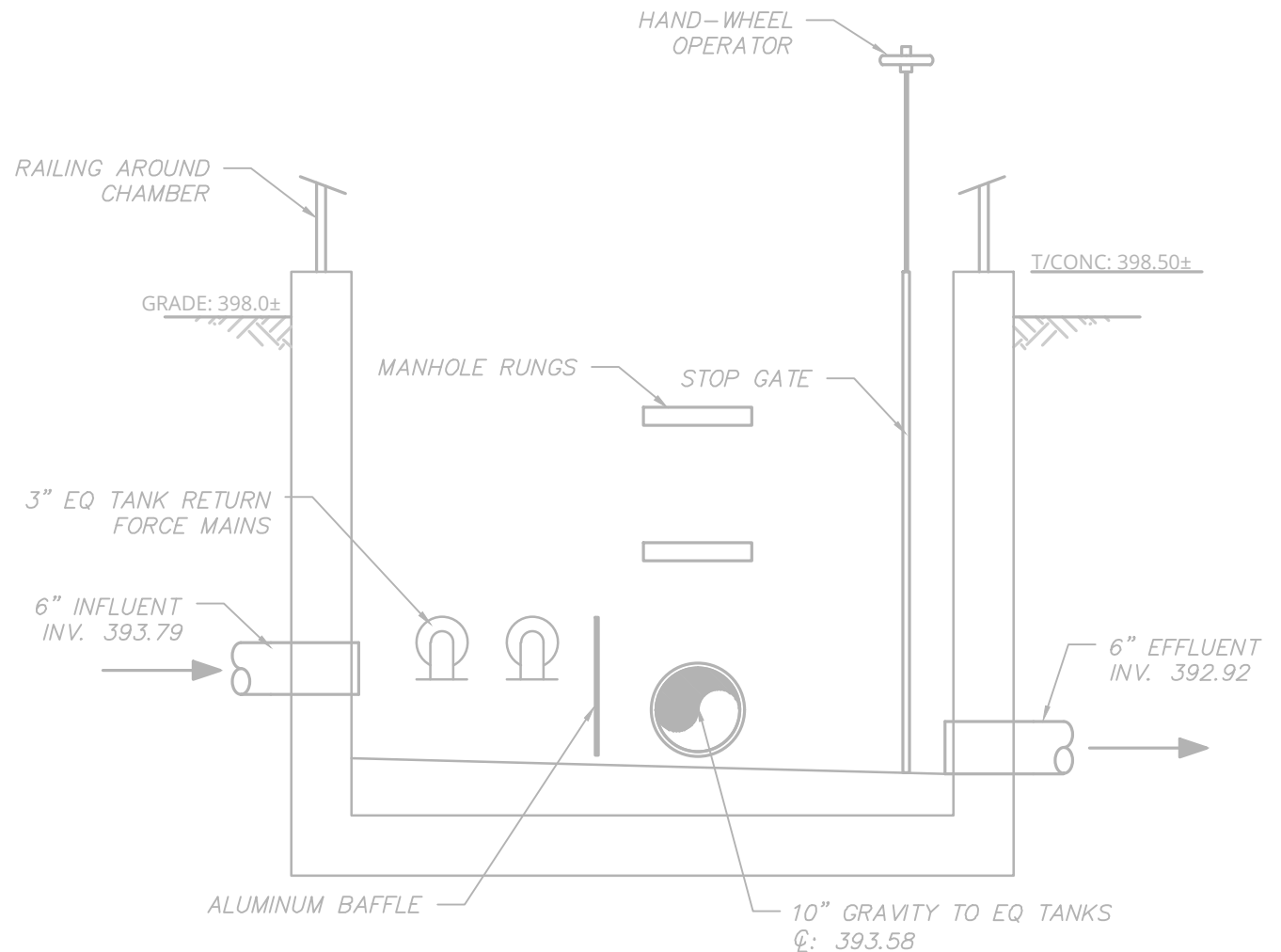
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



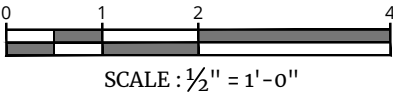
TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING FLOW DIVERSION STRUCTURE DEMOLITION PLAN AND SECTION	DRAWING NUMBER: M-7



FLOW DIVERSION STRUCTURE PROPOSED PLAN
SCALE: 1/2"=1'



FLOW DIVERSION STRUCTURE PROPOSED SECTION
SCALE: 1/2"=1'



ALTERED ON:	AFFIXED ON: 08/14/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP: 

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

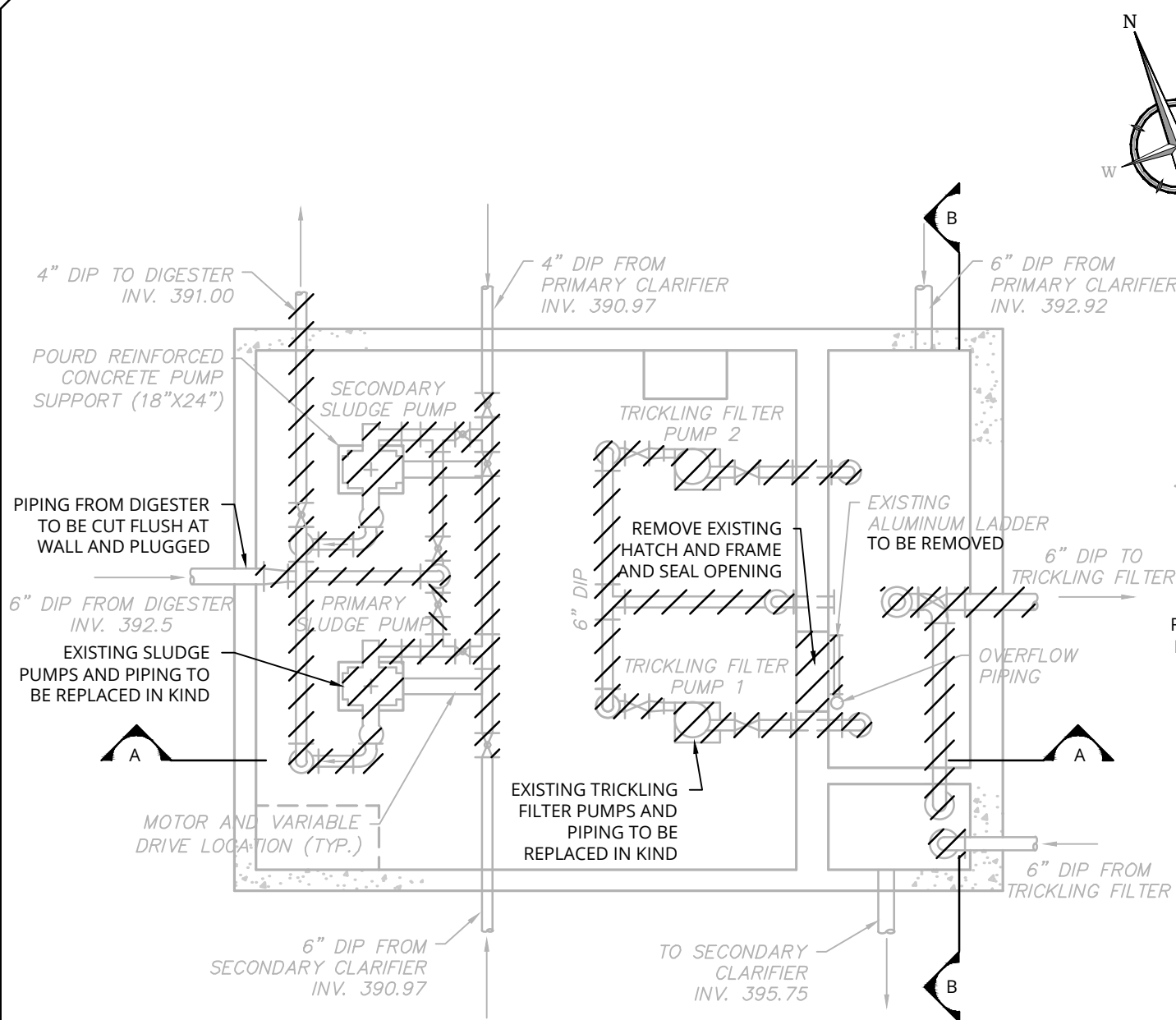
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



Engineering
& Design

TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING FLOW DIVERSION STRUCTURE PROPOSED PLAN AND SECTION	DRAWING NUMBER: M-8

PW:/
CHECKED BY: JBA / RAP
DRAFTED BY: SMB /
CHECKED BY: JBA / RAP
DESIGNED BY: ERE / SMB
DESIGN SUPERVISOR: JBA

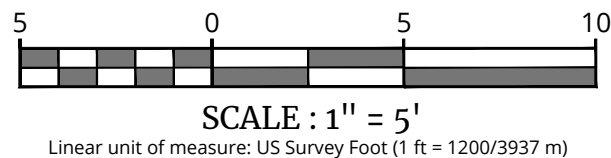


CONTROL BUILDING BASEMENT DEMOLITION PLAN
SCALE: 1"=5'

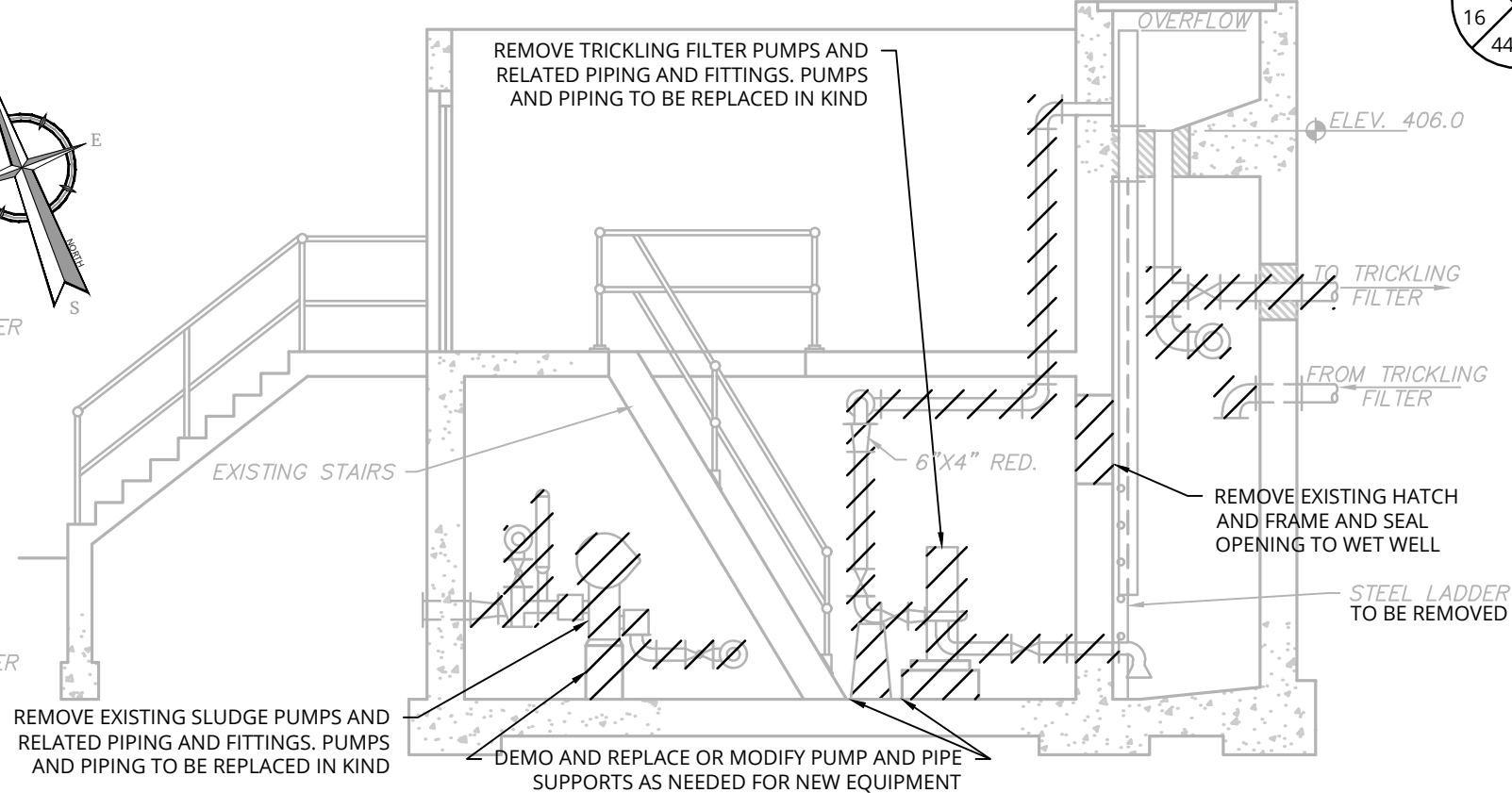
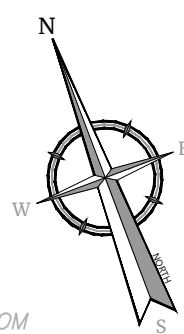
NOTES:

1. ALL INVERTS ARE TO BE VERIFIED IN THE FIELD PRIOR TO THE COMMENCEMENT OF WORK

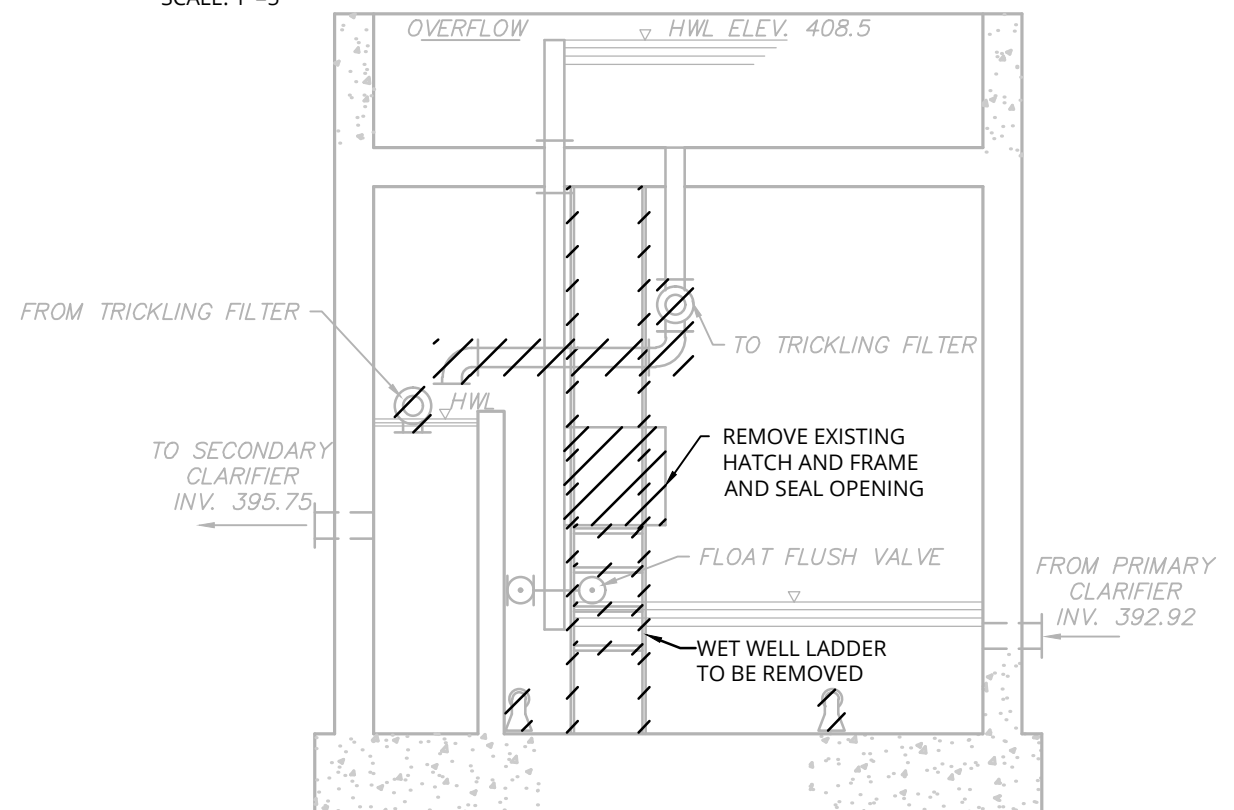
ALTERED ON:	APPROVED ON: 08/14/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP:



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(A) CONTROL BUILDING DEMOLITION SECTION
SCALE: 1"=5'

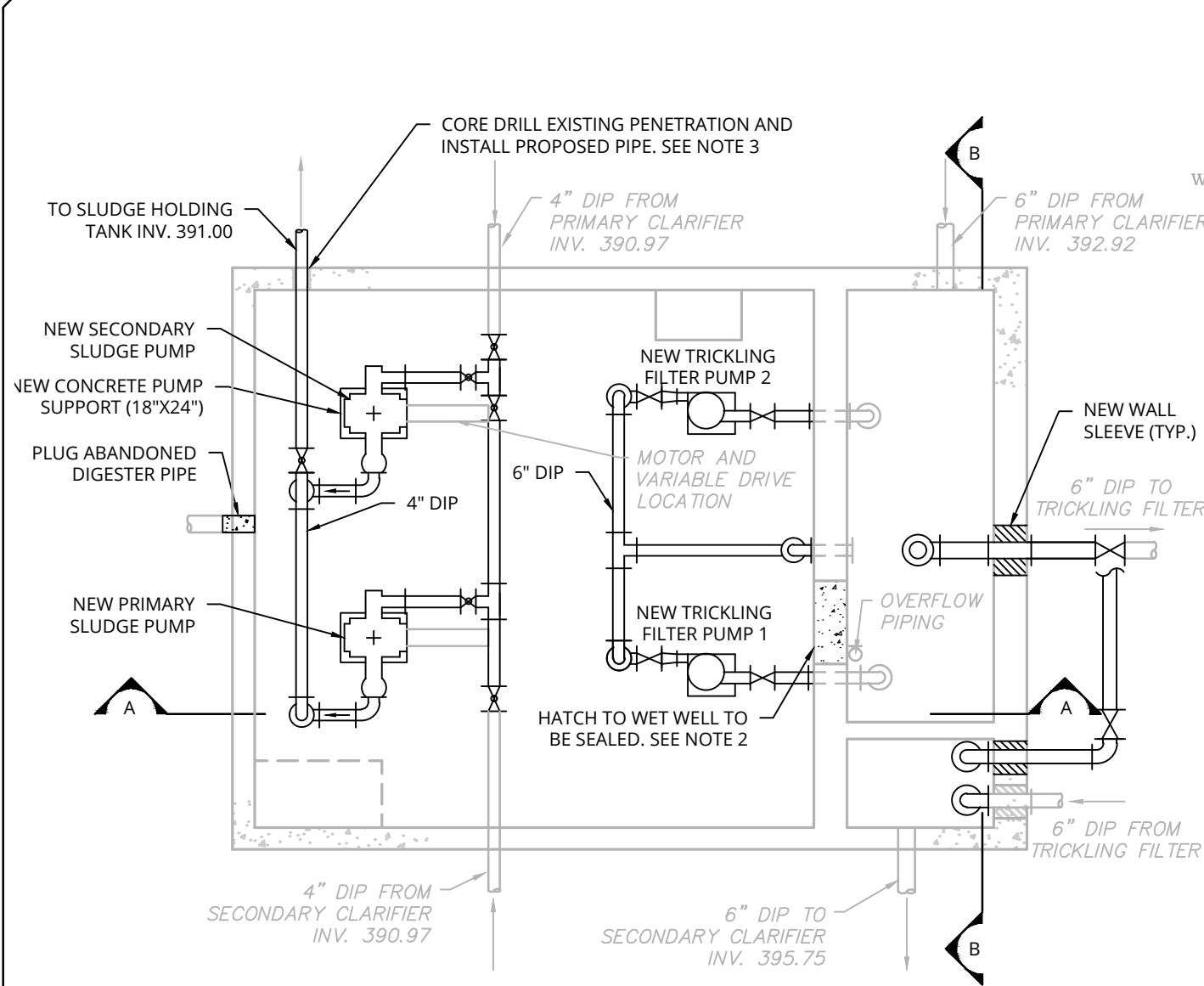


(B) CONTROL BUILDING DEMOLITION SECTION
SCALE: 1"=5'

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING CONTROL BUILDING DEMOLITION PLAN AND SECTIONS	DRAWING NUMBER: M-9

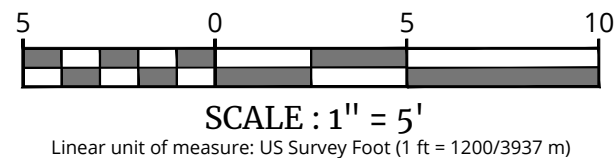


CONTROL BUILDING BASEMENT PROPOSED PLAN
SCALE: 1"=5'

NOTES:

1. ALL INVERTS ARE TO BE VERIFIED IN THE FIELD PRIOR TO THE COMMENCEMENT OF WORK.
2. WET WELL ACCESS HATCH TO BE FILLED WITH CONCRETE AND SEALED WITH SIKA SWELLSTOP OR APPROVED EQUAL. LEVEL CONTROL FLOATS ADJACENT TO HATCH SHALL BE RELOCATED AND MADE ACCESSIBLE FROM EXTERIOR ACCESS DOOR.
3. EXISTING STRUCTURES SHALL BE CORE-DRILLED AND NEW PIPES TO BE INSTALLED WITH MECHANICAL LINK SEAL. REFER TO "EXISTING MANHOLE / STRUCTURE PENETRATION" DETAIL ON SHEET SD-1.
4. INSTALL NON-SKID FLOORING COATING AND REPAIR / RE-PAINT WALLS

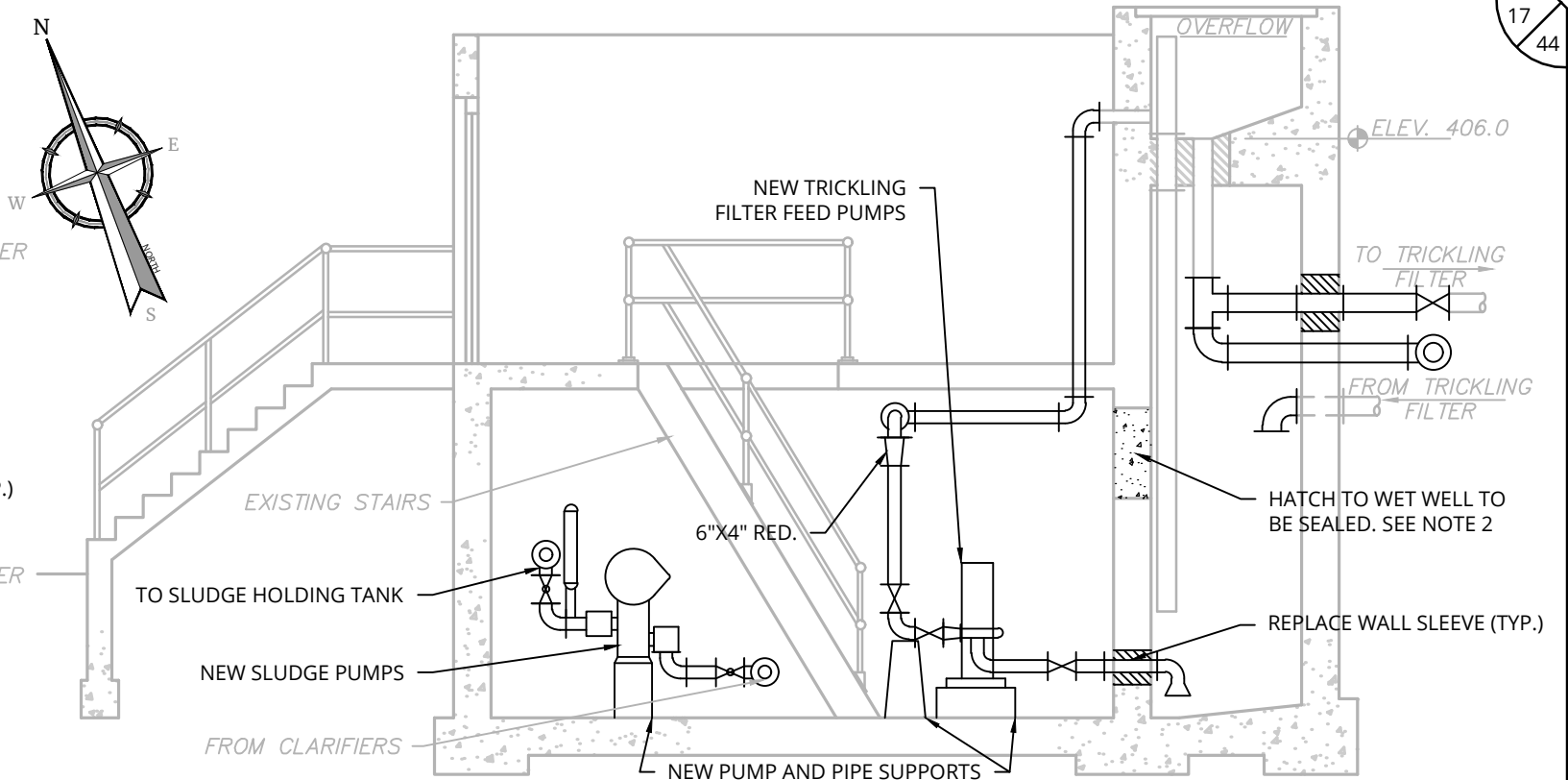
ALTERED ON:	APPROVED ON: 08/14/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP:



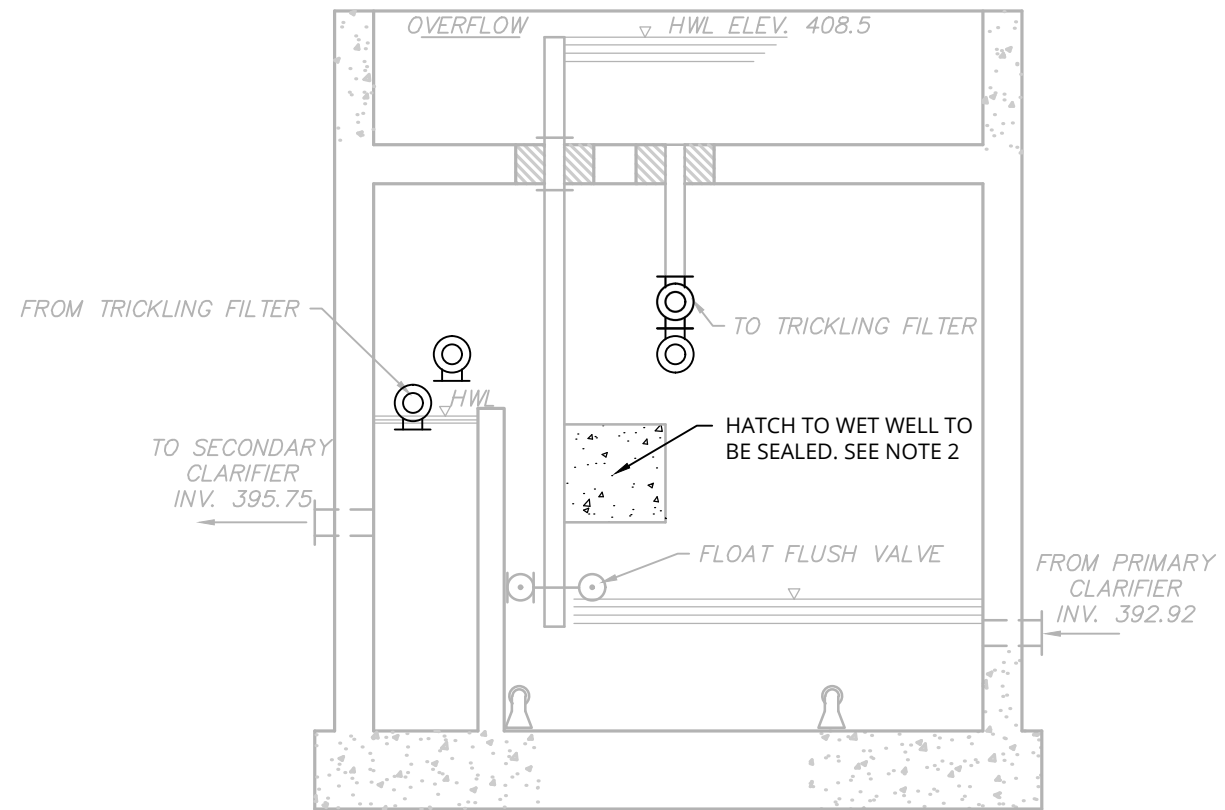
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

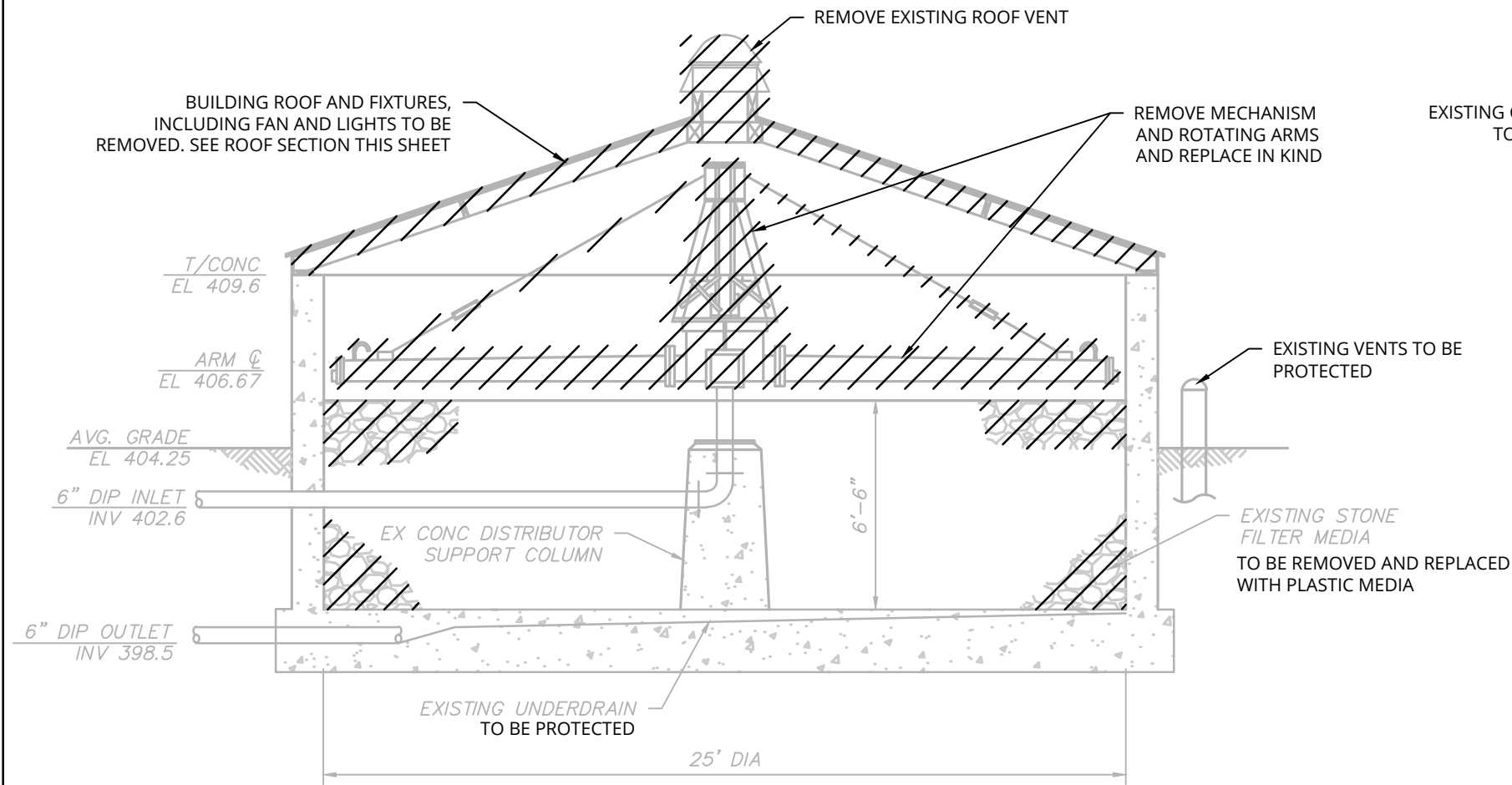
TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING CONTROL BUILDING PROPOSED PLAN AND SECTIONS	DRAWING NUMBER: M-10



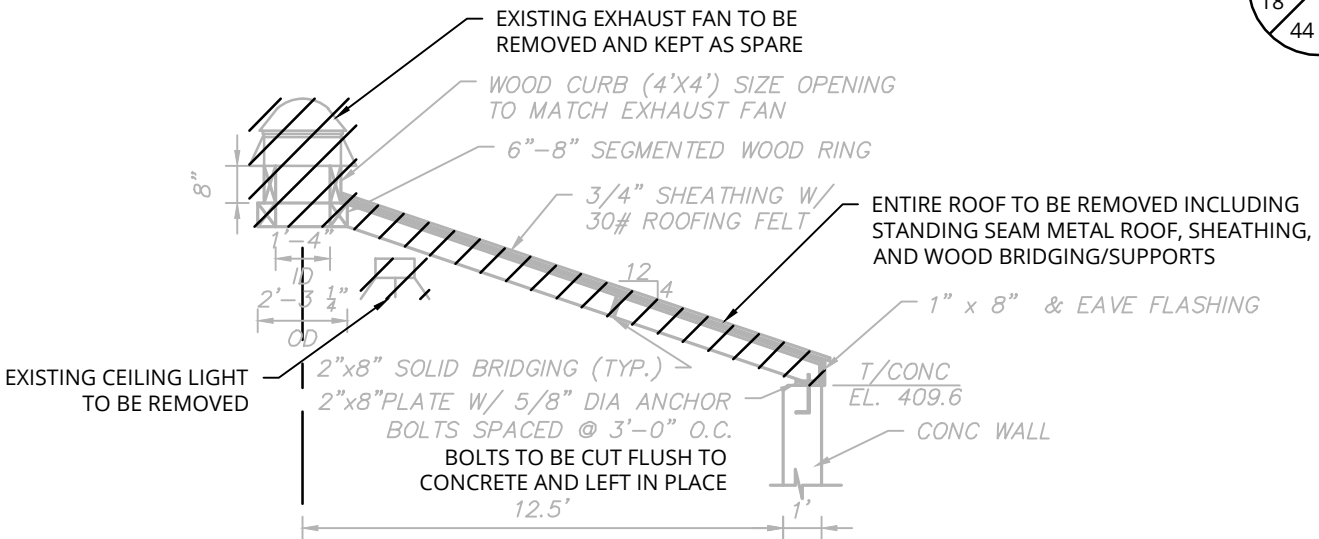
(A) CONTROL BUILDING PROPOSED SECTION
SCALE: 1"=5'



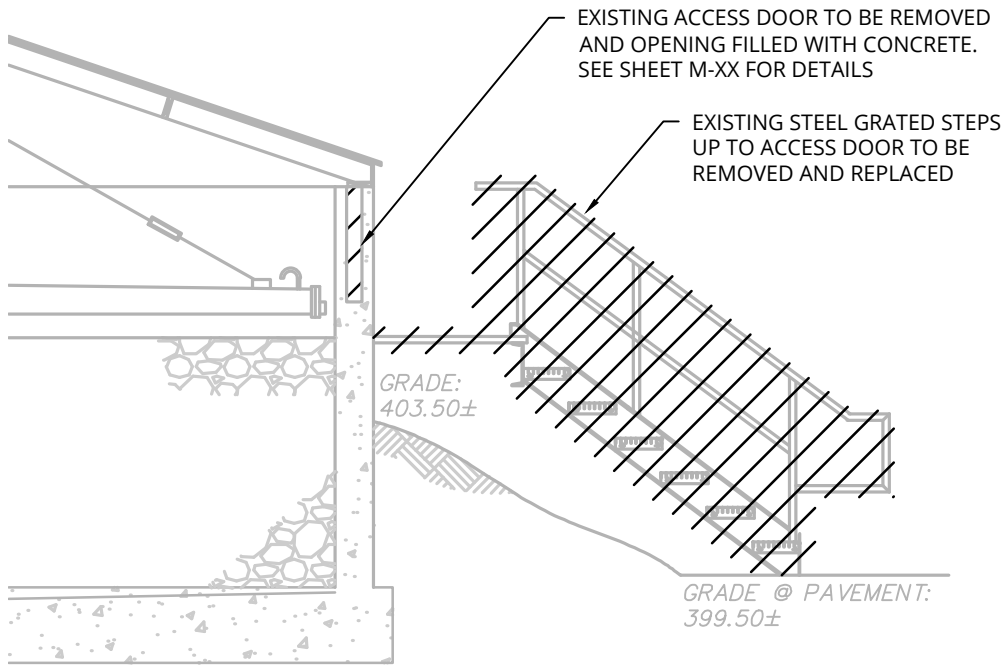
(B) CONTROL BUILDING PROPOSED SECTION
SCALE: 1"=5'



TRICKLING FILTER DEMOLITION PLAN
SCALE: 1"=5'



ROOF DEMOLITION SECTION
SCALE: 1"=5'



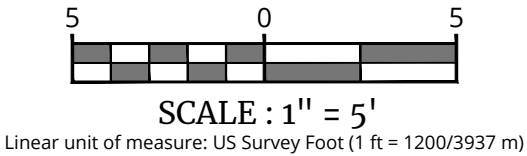
TRICKLING FILTER ACCESS PLATFORM DEMOLITION SECTION
SCALE: 1"=5'

ALTERED ON:	AFFIXED ON: 08/14/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP:

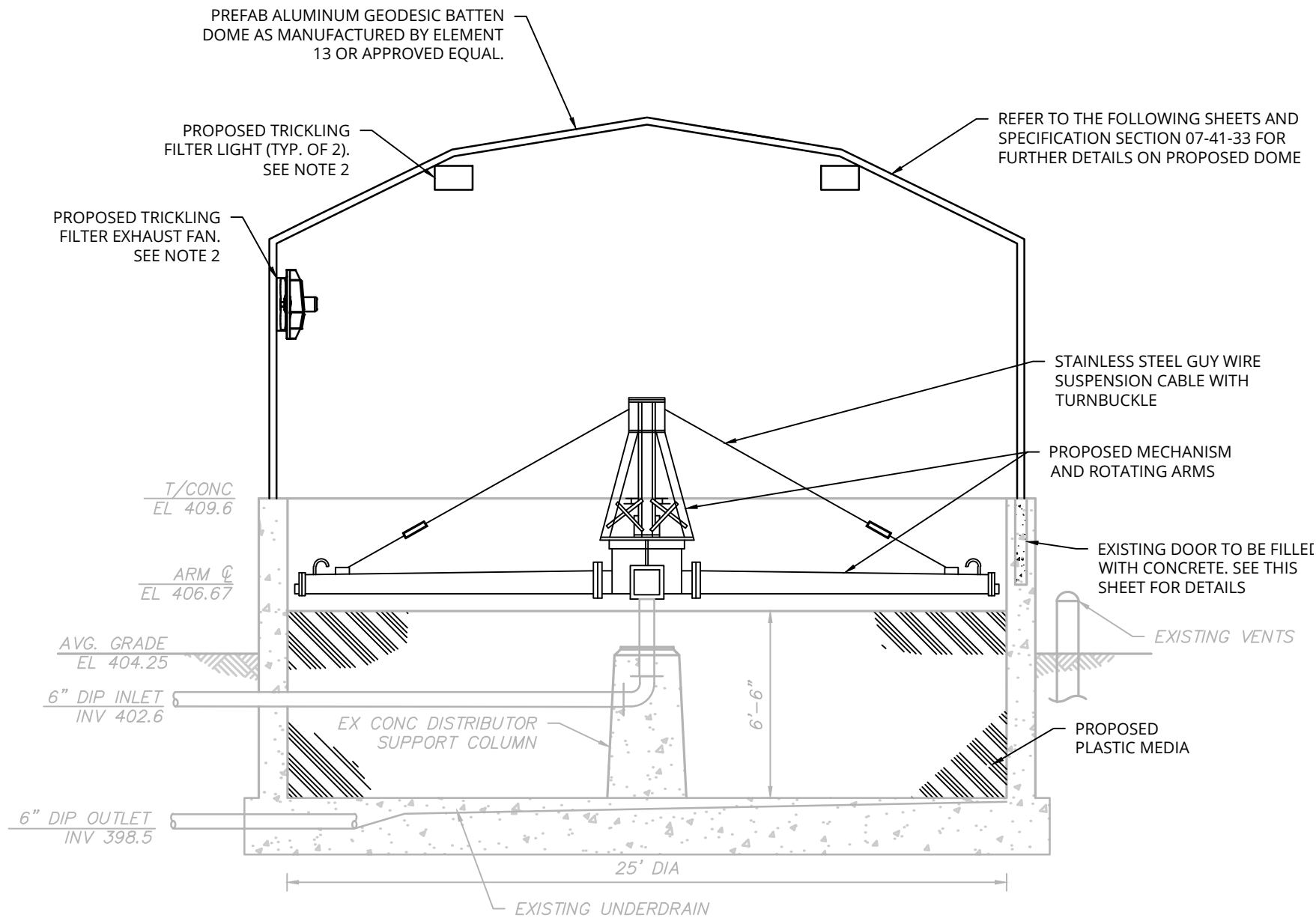
- NOTES:**
- ALL INVERTS ARE TO BE VERIFIED IN THE FIELD PRIOR TO THE COMMENCEMENT OF WORK

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

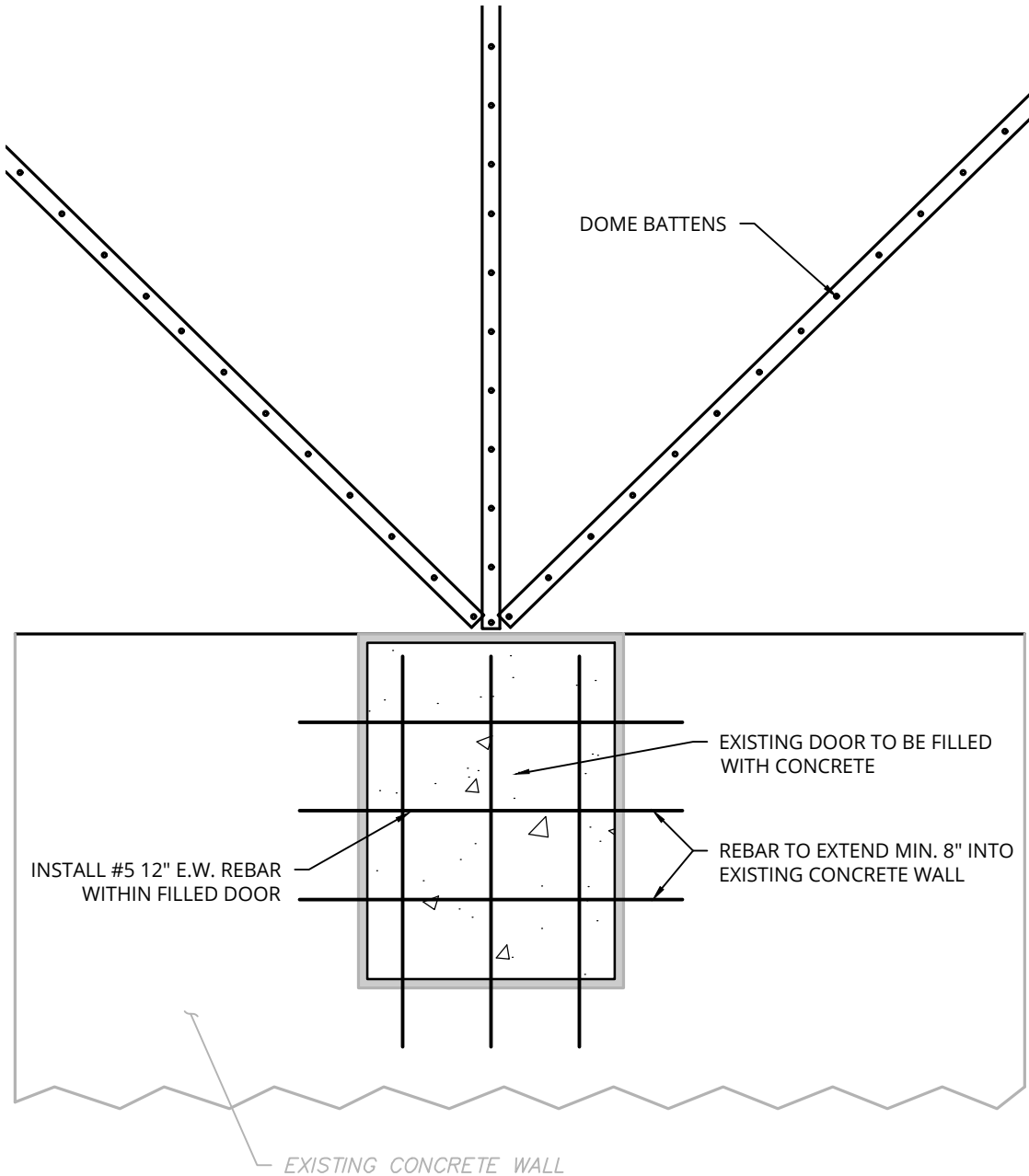
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING TRICKLING FILTER DEMOLITION SECTIONS	DRAWING NUMBER: M-11



TRICKLING FILTER PROPOSED SECTION
SCALE: 1"=5'



TRICKLING FILTER DOOR FILLING DETAIL
SCALE: 1/2"=1"

NOTES:

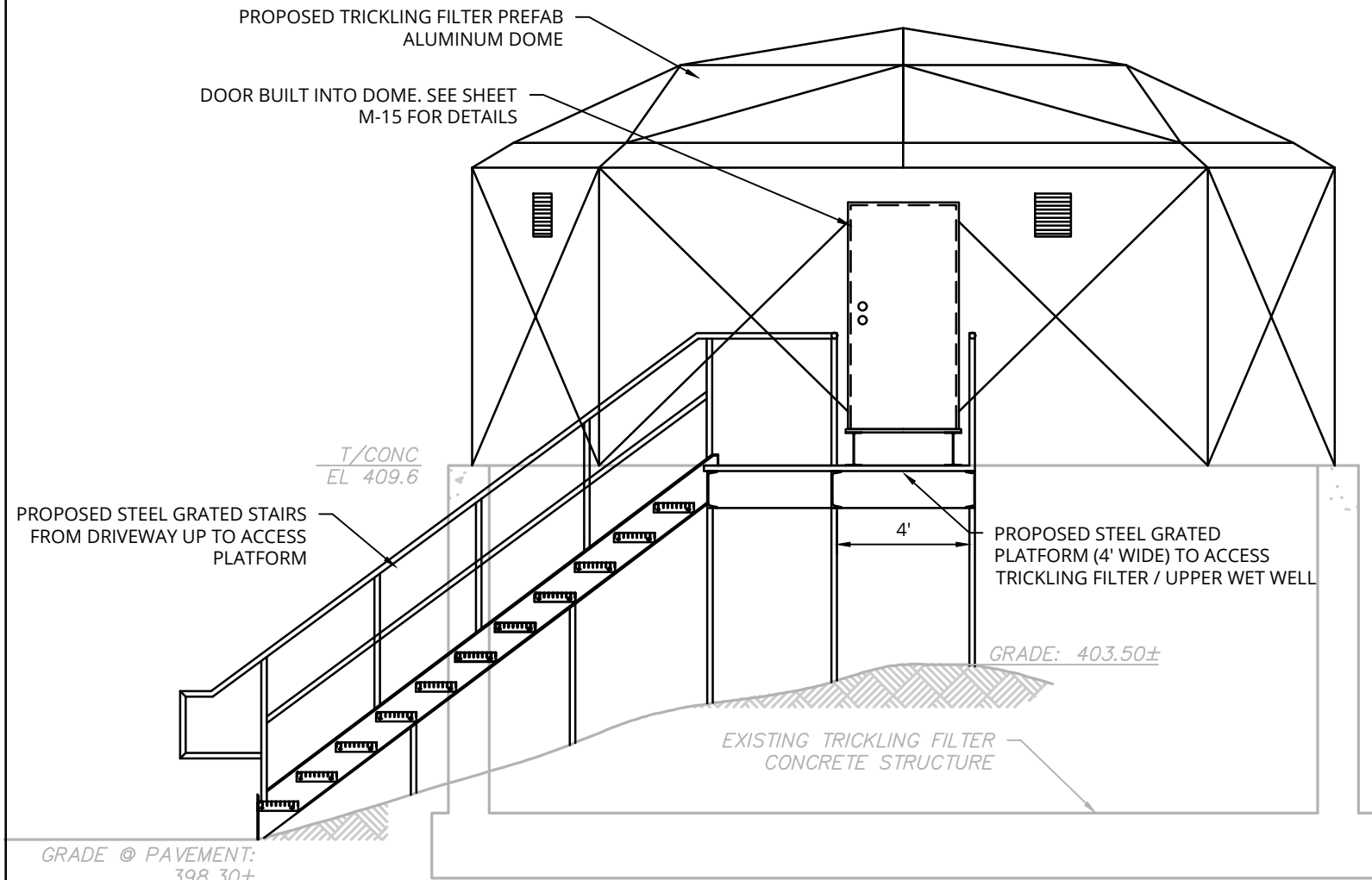
1. ALL INVERTS ARE TO BE VERIFIED IN THE FIELD PRIOR TO THE COMMENCEMENT OF WORK.
2. PROPOSED EXHAUST FAN AND CEILING LIGHTS TO BE EXPLOSION PROOF AND SUITABLE FOR CLASS 1, DIVISION 1, GROUP D HAZARDOUS ATMOSPHERE.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

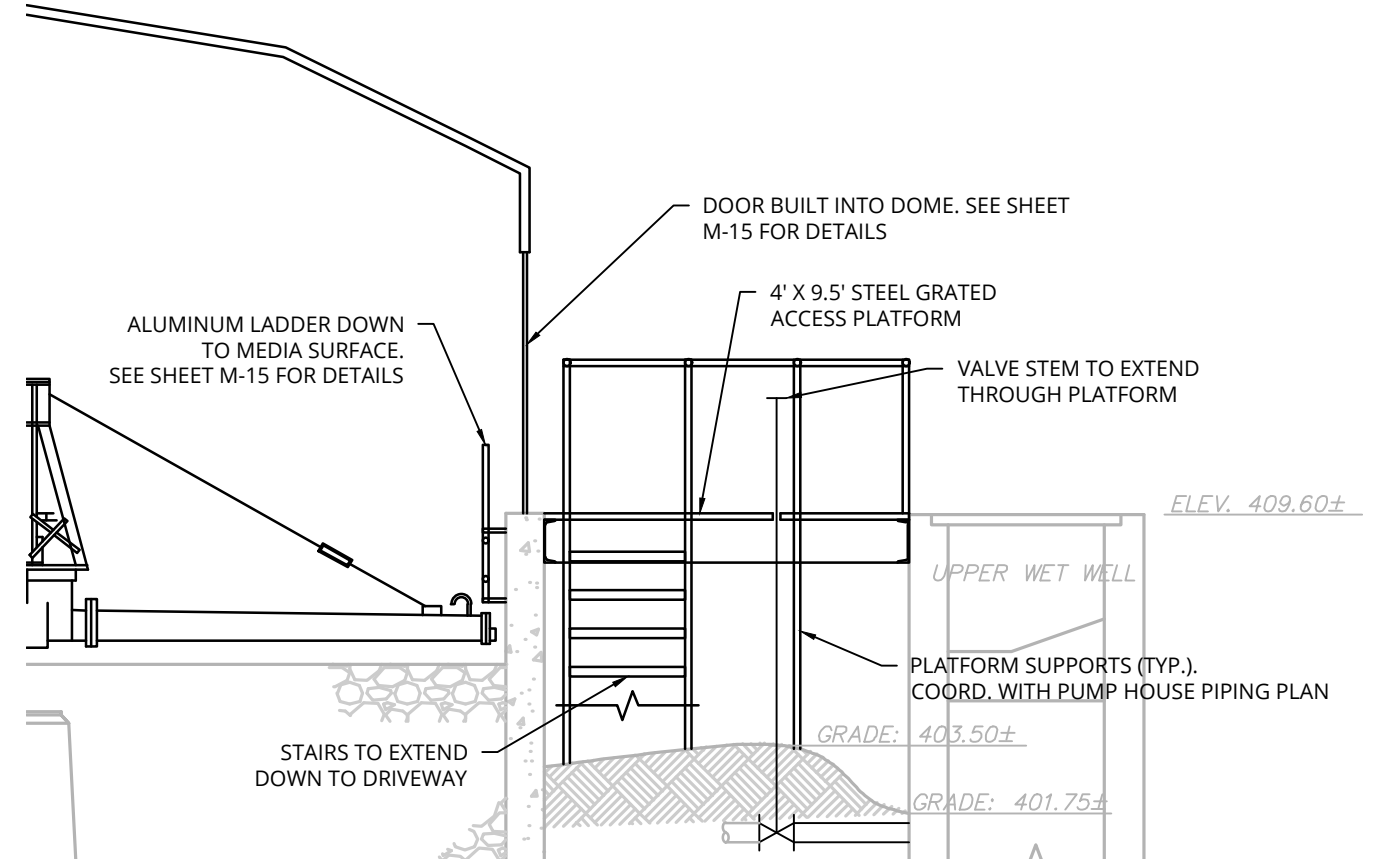
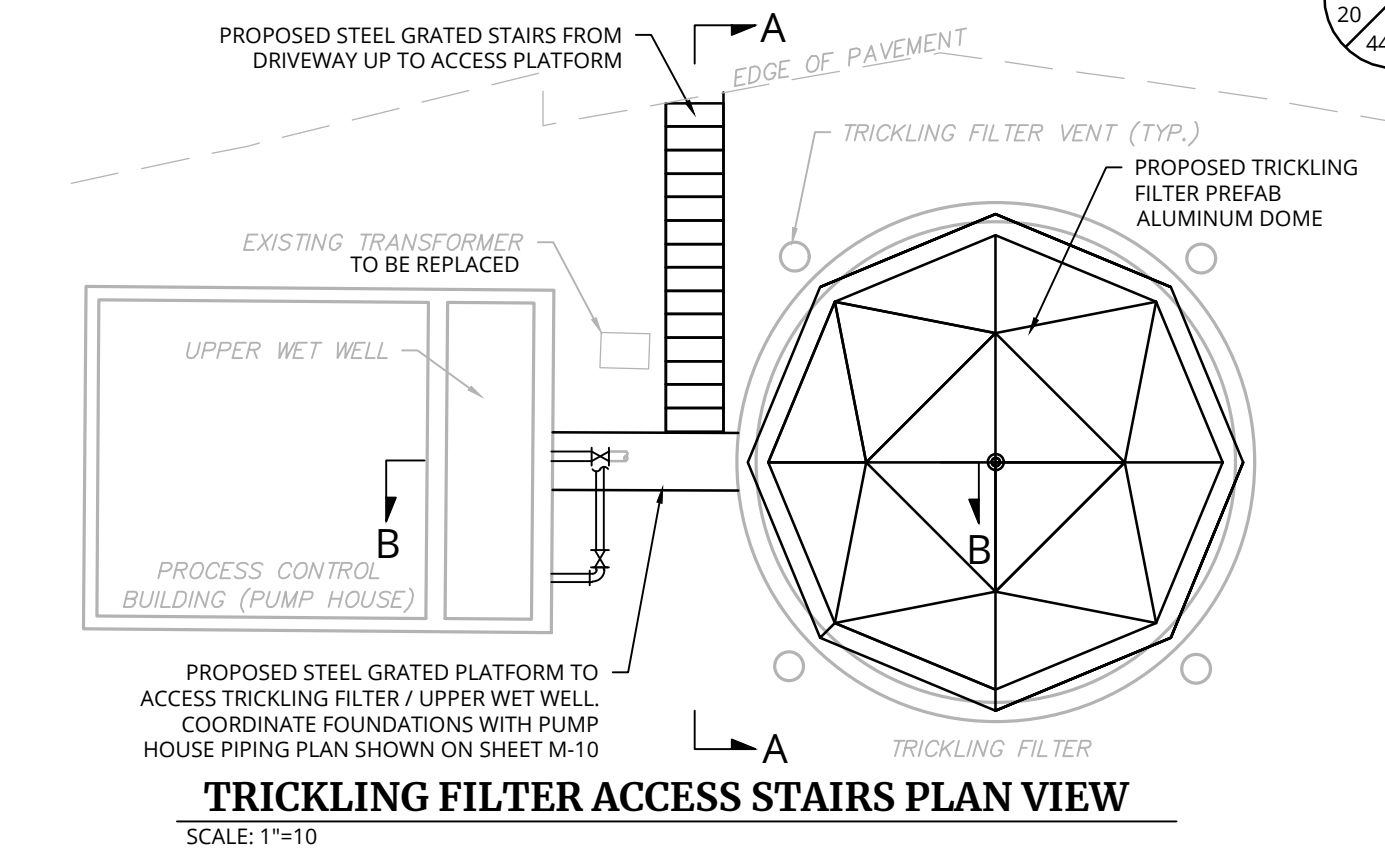
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING TRICKLING FILTER PROPOSED SECTIONS AND DETAILS	DRAWING NUMBER: M-12



TRICKLING FILTER ACCESS STAIRS SECTION 'A-A'
SCALE: 1"=5'

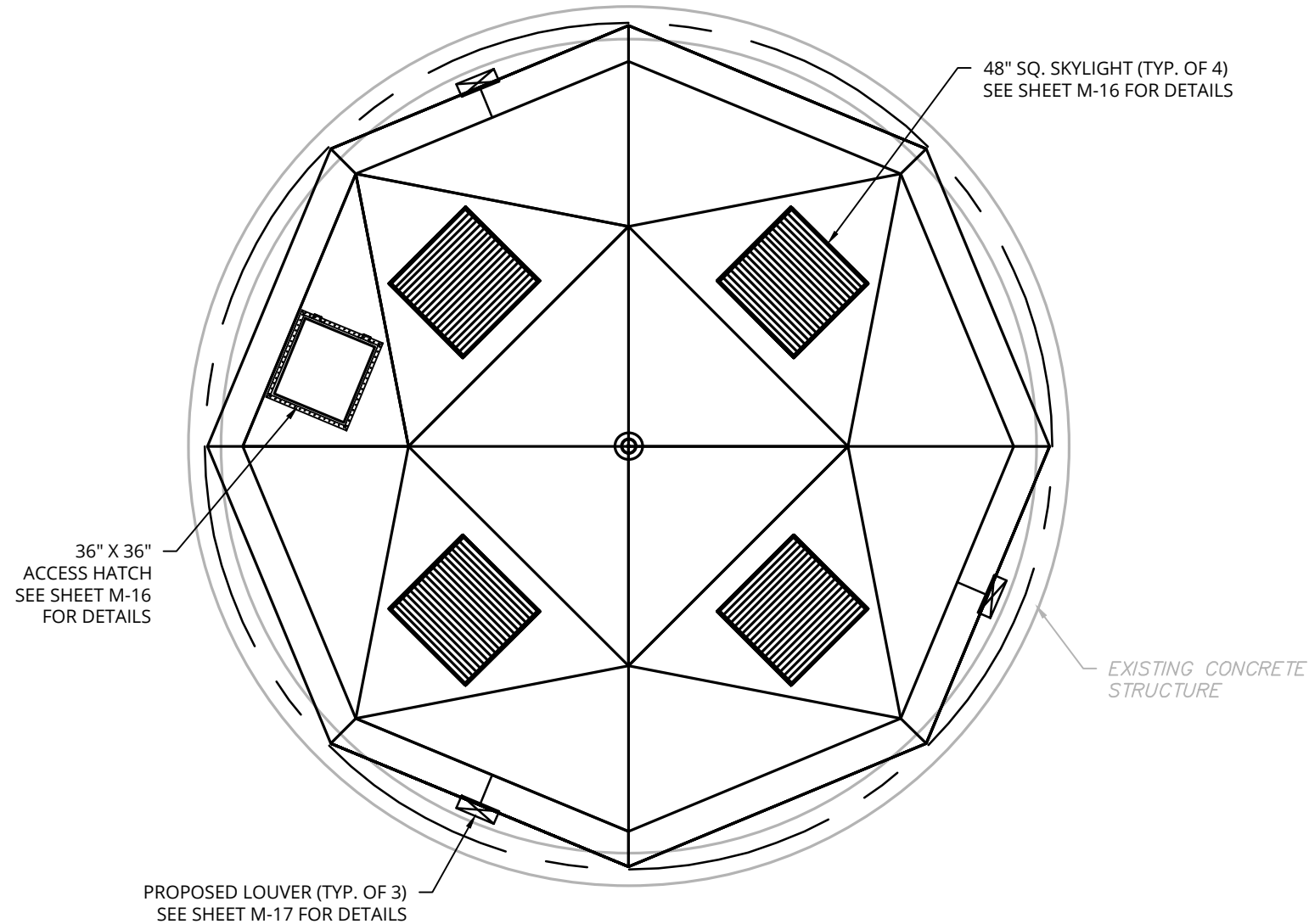


ALTERED ON:	APPROVED ON: 08/14/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP:

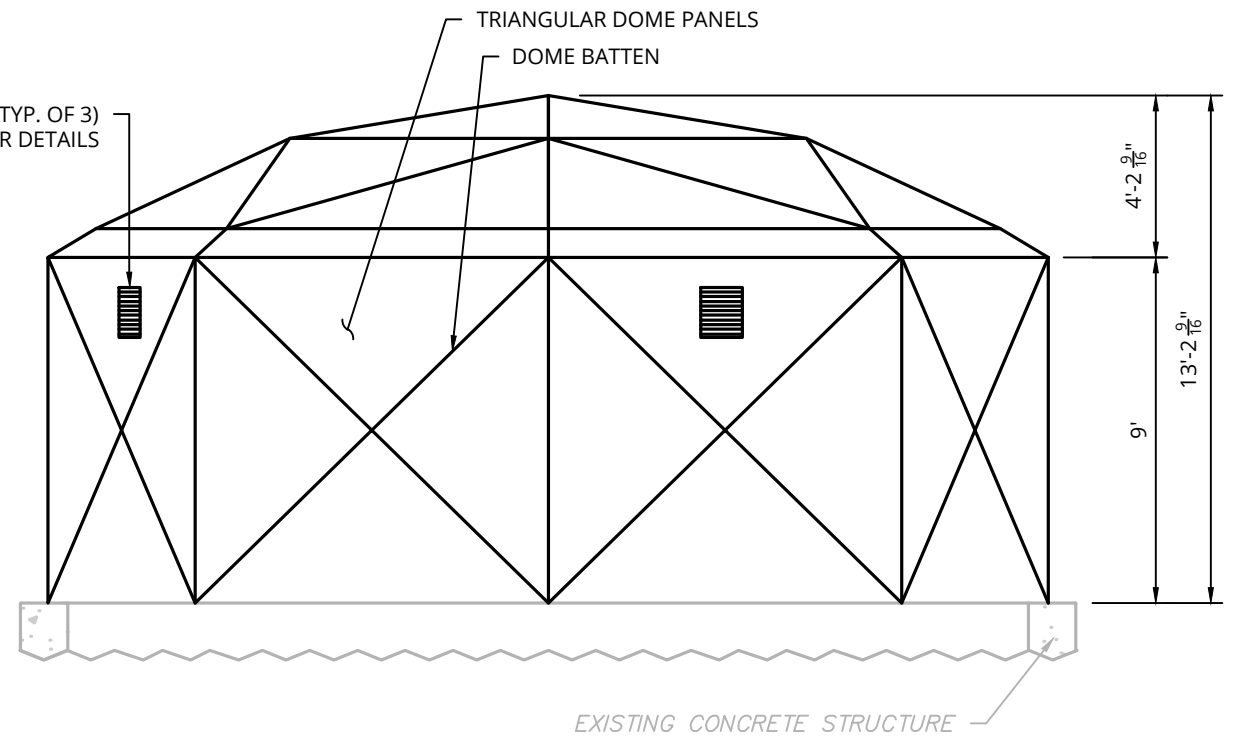
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

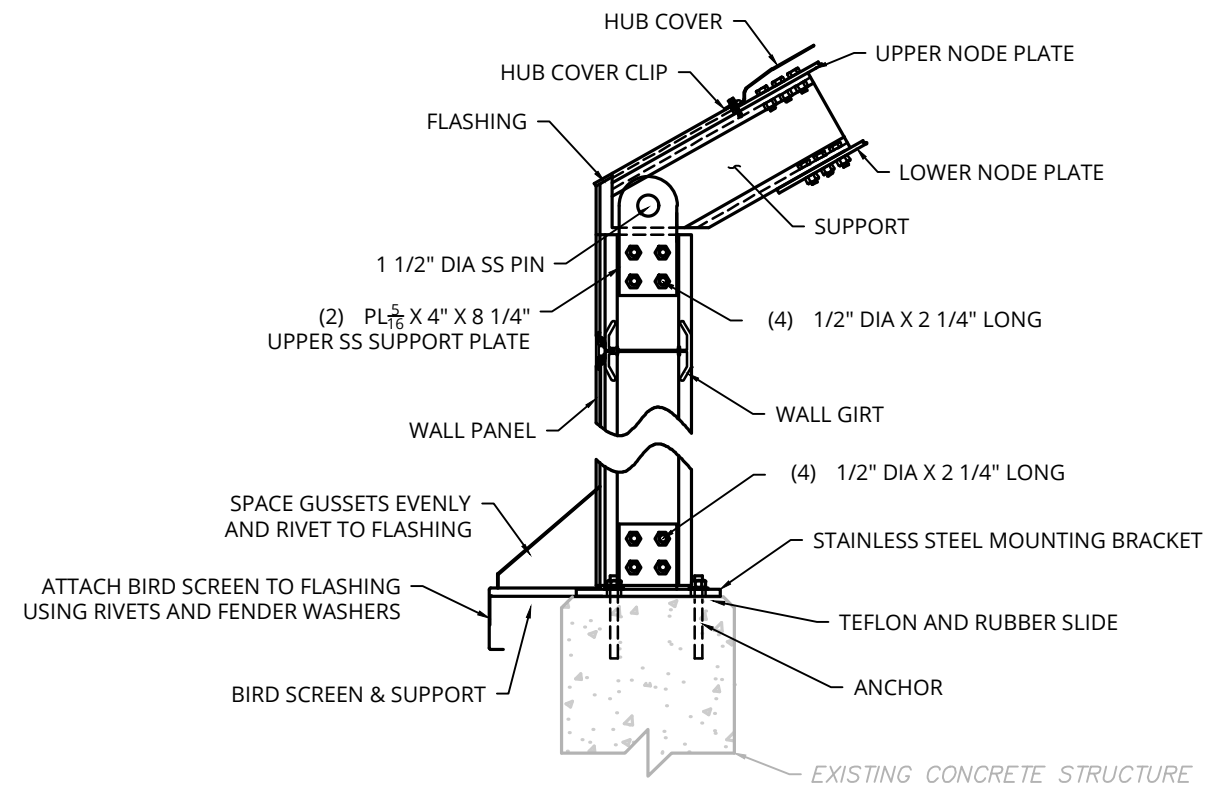
TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING TRICKLING FILTER PROPOSED ACCESS STAIRS AND PLATFORM	DRAWING NUMBER: M-13



TRICKLING FILTER PROPOSED DOME PLAN
SCALE: 1"=5'

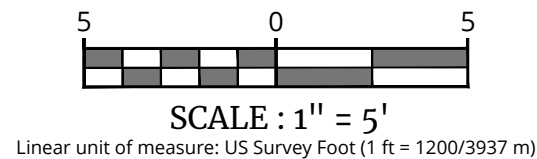


TRICKLING FILTER PROPOSED DOME SECTION
SCALE: 1"=5'



DOME WALL & CONNECTION TO EXISTING CONCRETE WALL DETAIL
NOT TO SCALE

ALTERED ON:	AFFIXED ON: 08/14/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP:



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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

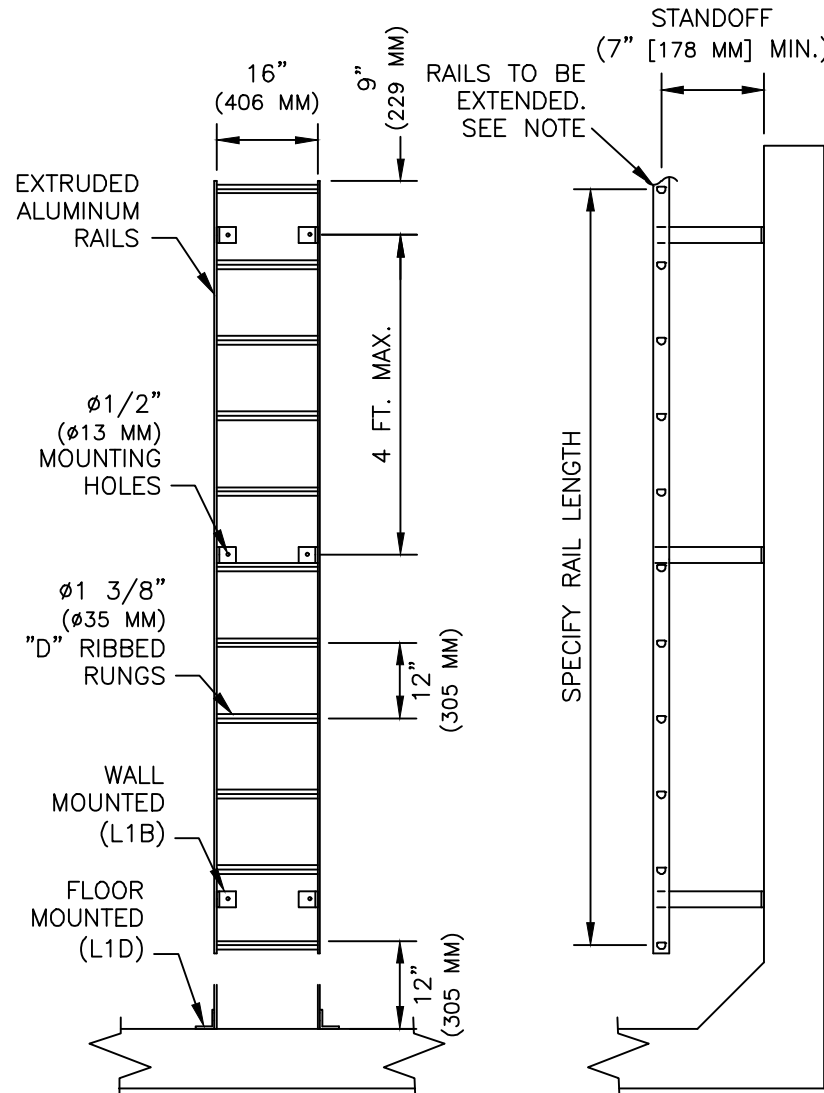
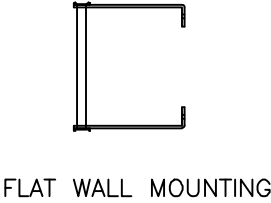


TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING TRICKLING FILTER PROPOSED DETAILS	DRAWING NUMBER: M-14

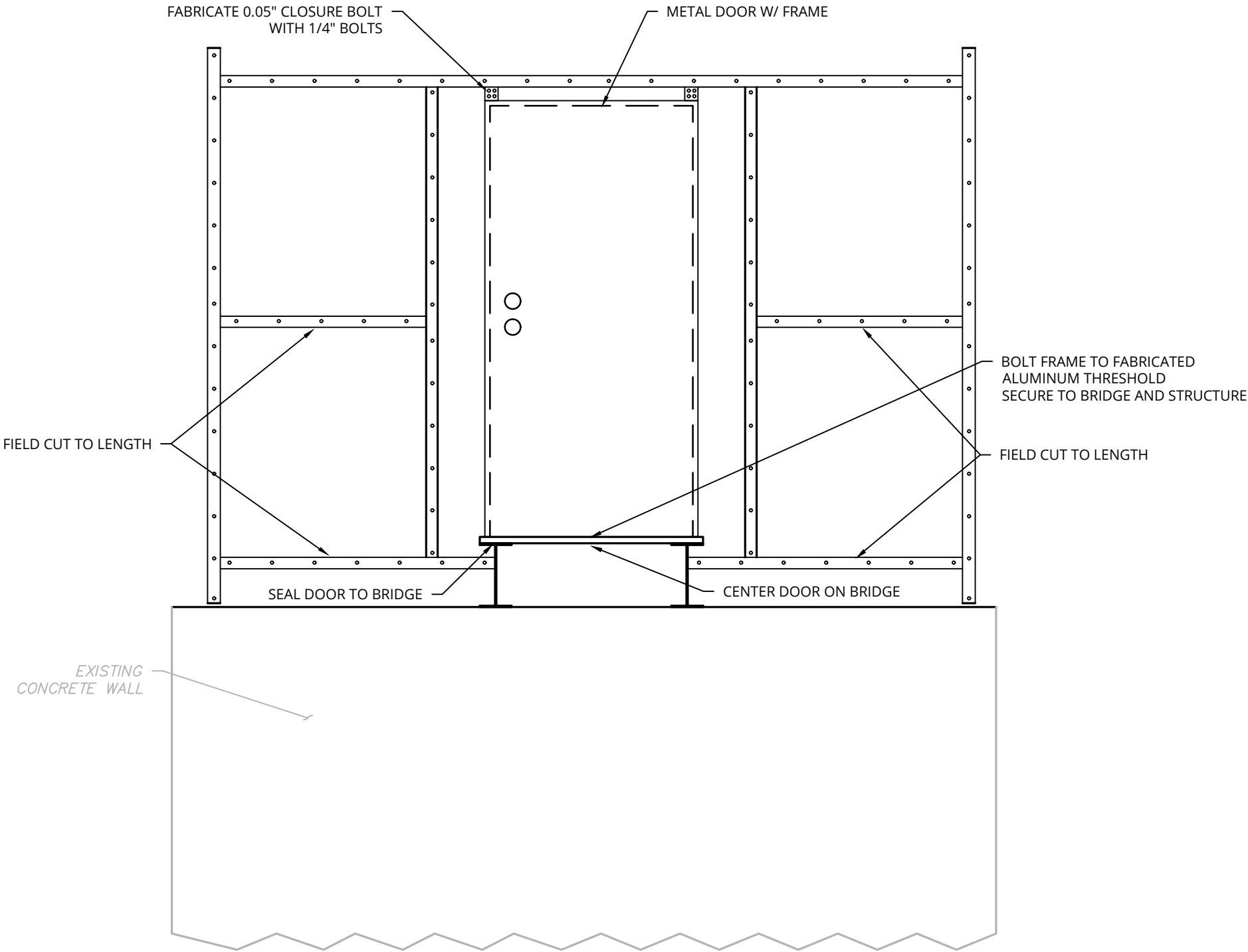
PW:/
CHECKED BY: JBA / RAP
DRAFTED BY: SMB /
CHECKED BY: JBA / RAP
DESIGNED BY: ERE / SMB
DESIGN SUPERVISOR: JBA

NOTES

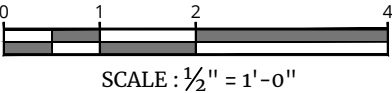
- ALL ALUMINUM WELDED CONSTRUCTION
- 1 3/8 DIA. TYPE "D" RUNG WITH SLIP RESISTANT RIBBED RUNG
- ACCESS LADDER AND SUPPORTS SHALL BE ALUMINUM ALLOY 6061-T6 OR 6063-T6.
- LADDER SHALL BE REQUIRED LENGTH TO REACH DIRECTLY ABOVE ROTATING ARM. LADDER SHALL NOT CONFLICT WITH ARM LOCATION.
- LADDER TO HAVE EXTENDED HANDRAIL 2' ABOVE TOP OF CONCRETE WALL



ALUMINUM ACCESS LADDER DETAIL
NOT TO SCALE



TRICKLING FILTER DOME DOOR SECTION
SCALE: 1/2"=1"



ALTERED ON:

08/14/2026

SIGNATURE:

STAMP:

SIGNATURE:

STAMP:

STATE OF NEW YORK

JOSEPH B. AWALD

089707

LICENSED PROFESSIONAL ENGINEER

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

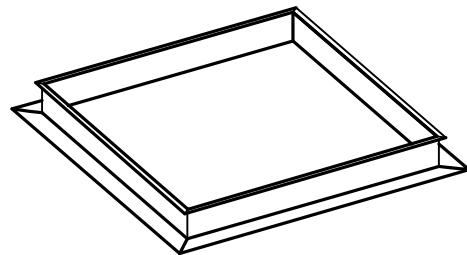
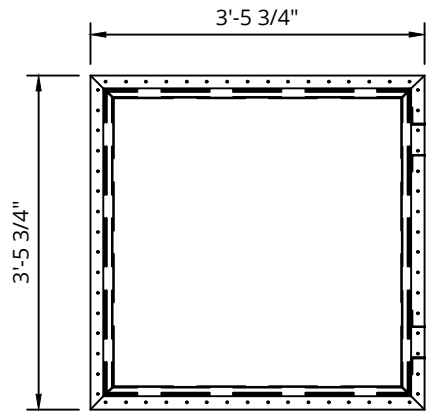
NEW YORK STATE

Thruway Authority

Colliers

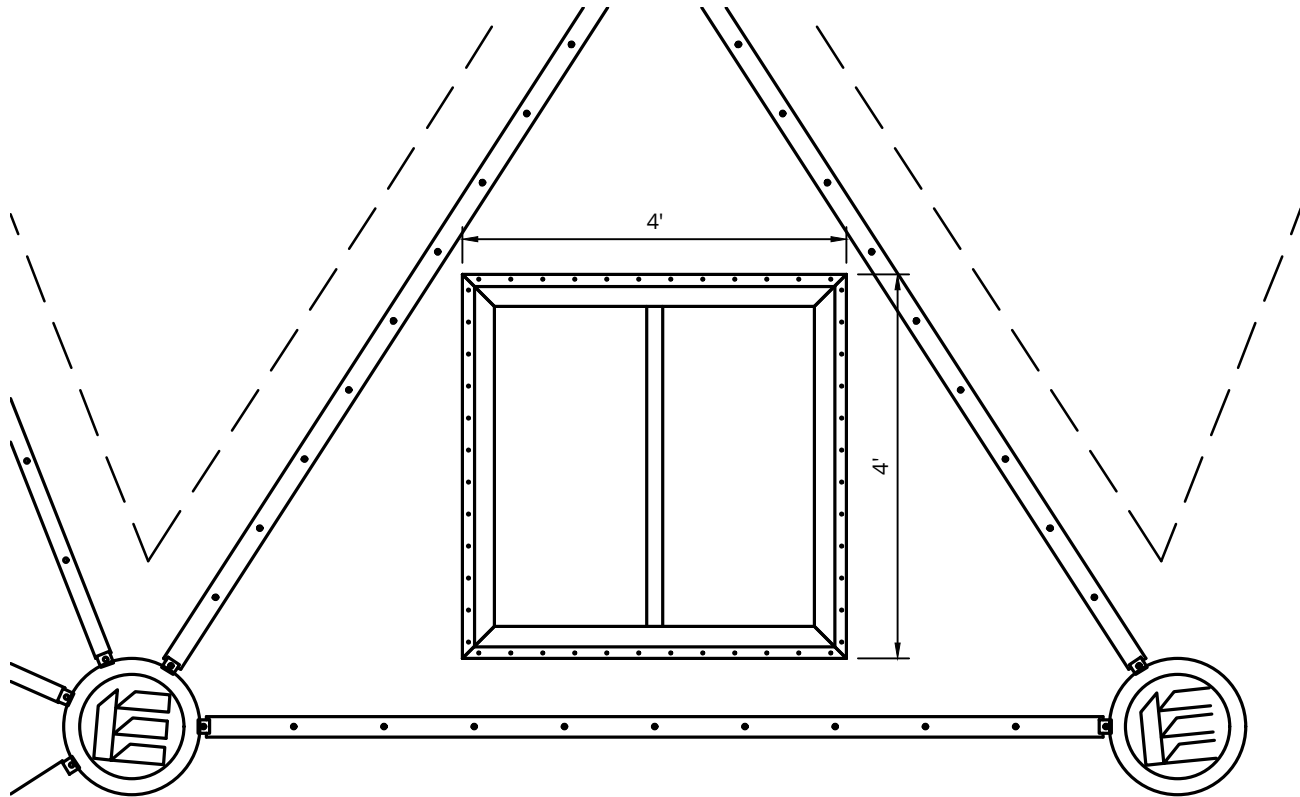
Engineering & Design

TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING TRICKLING FILTER PROPOSED DETAILS	DRAWING NUMBER: M-15



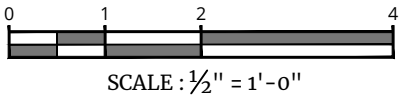
TRICKLING FILTER DOME ACCESS HATCH DETAIL

SCALE: 1/2"=1"



TRICKLING FILTER DOME TYPICAL SKYLIGHT DETAIL

SCALE: 1/2"=1"



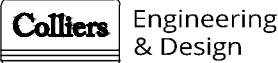
ALTERED ON:

08/14/2026

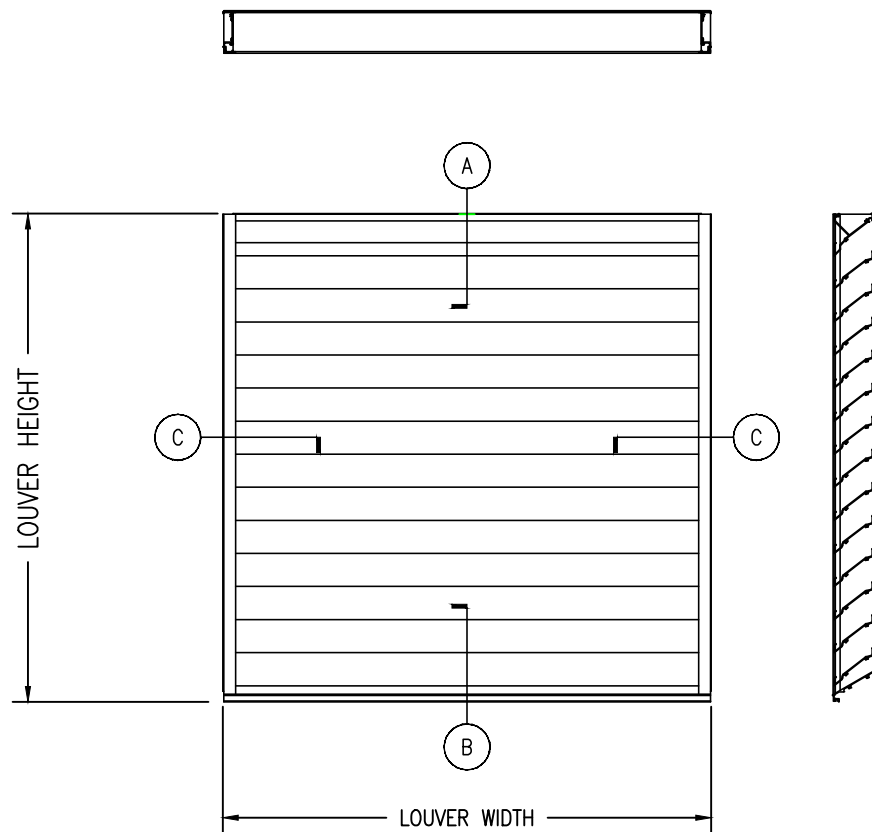
SIGNATURE:
STAMP:

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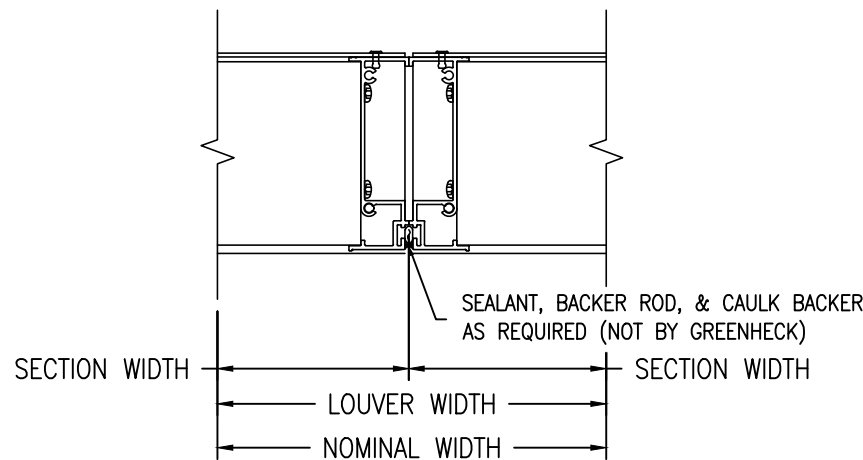
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



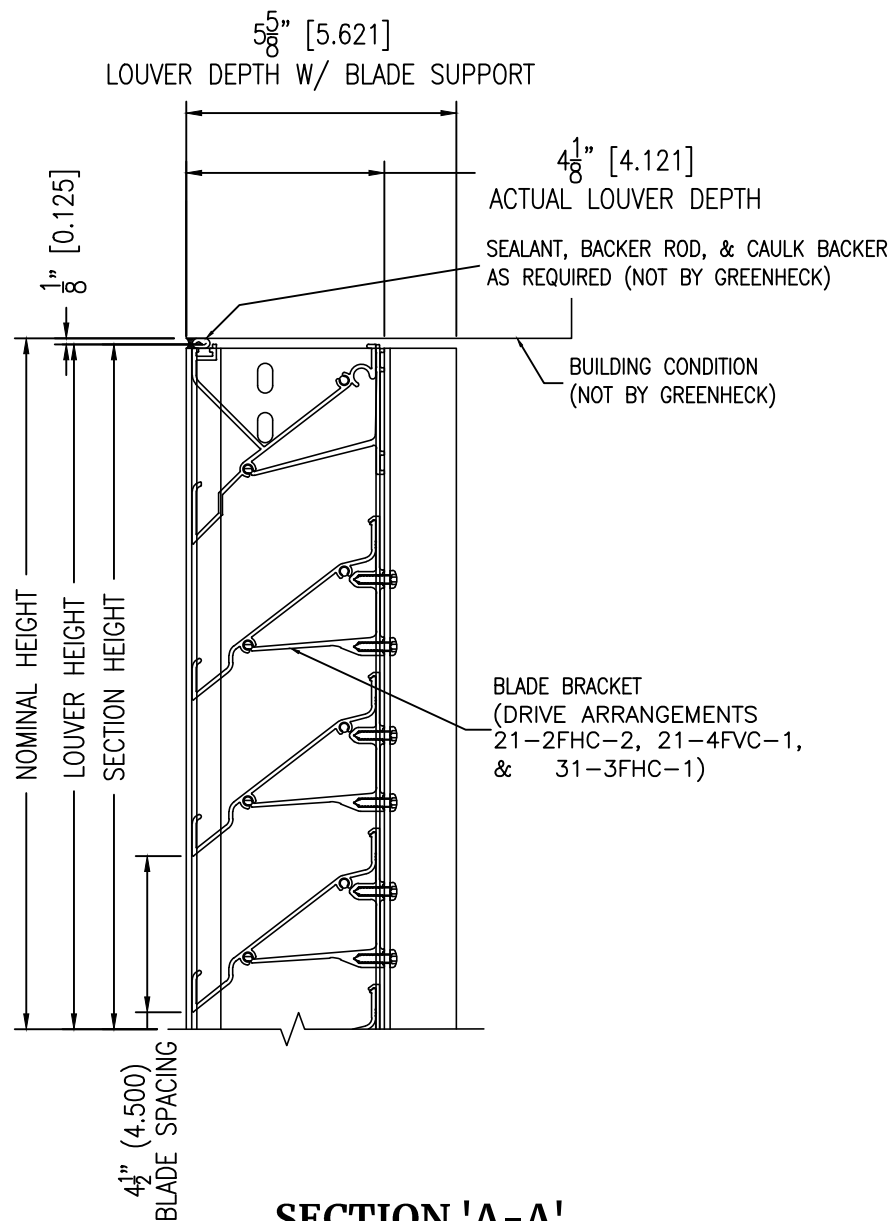
TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING TRICKLING FILTER PROPOSED DETAILS	DRAWING NUMBER: M-16



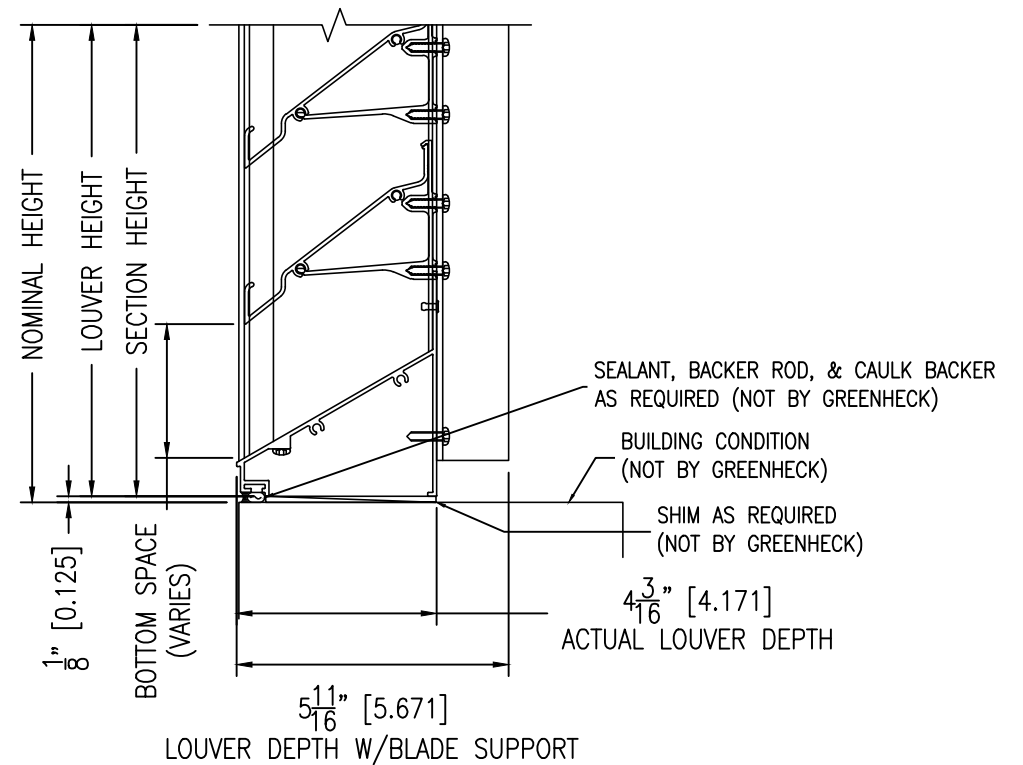
PLAN VIEW



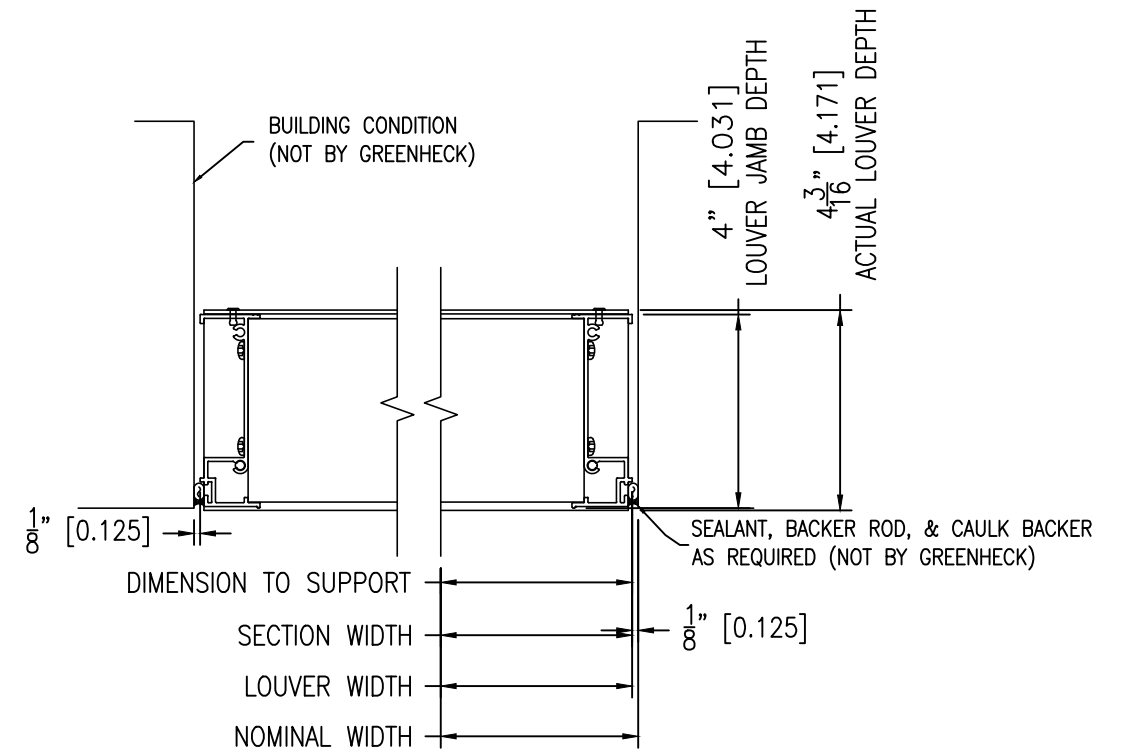
SECTION 'D-D'



SECTION 'A-A'



SECTION 'B-B'



SECTION 'C-C'

NOTES:

1. TRICKLING FILTER DOME LOUVER TO BE STATIONARY LOUVER, DRAINABLE BLADE, 4" DEPTH, MODEL ESD-435 AS MANUFACTURED BY GREENHECK OR APPROVED EQUAL.

TRICKLING FILTER DOME LOUVER DETAILS

NOT TO SCALE

ALTERED ON:

08/14/2026

SIGNATURE:

STAMP:

STATE OF NEW YORK

JOSEPH B. AWALD

089707

LICENSED PROFESSIONAL ENGINEER

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

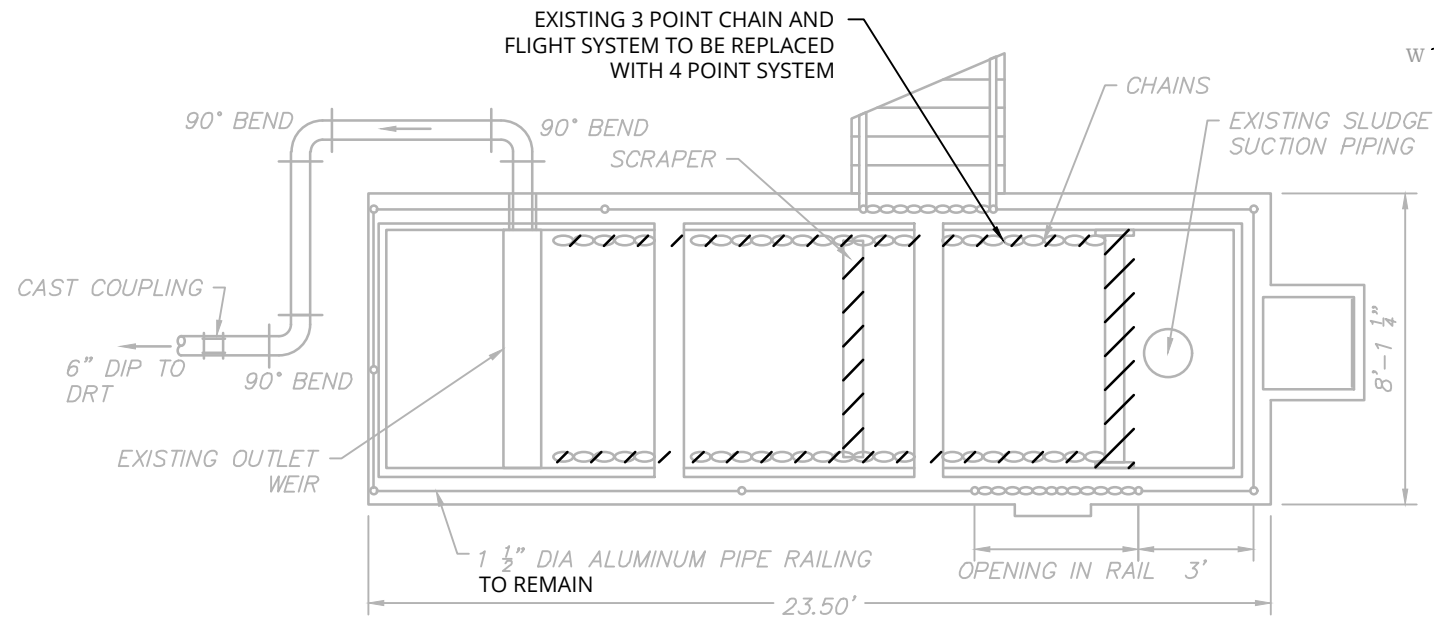
NEW YORK STATE

Thruway Authority

Colliers

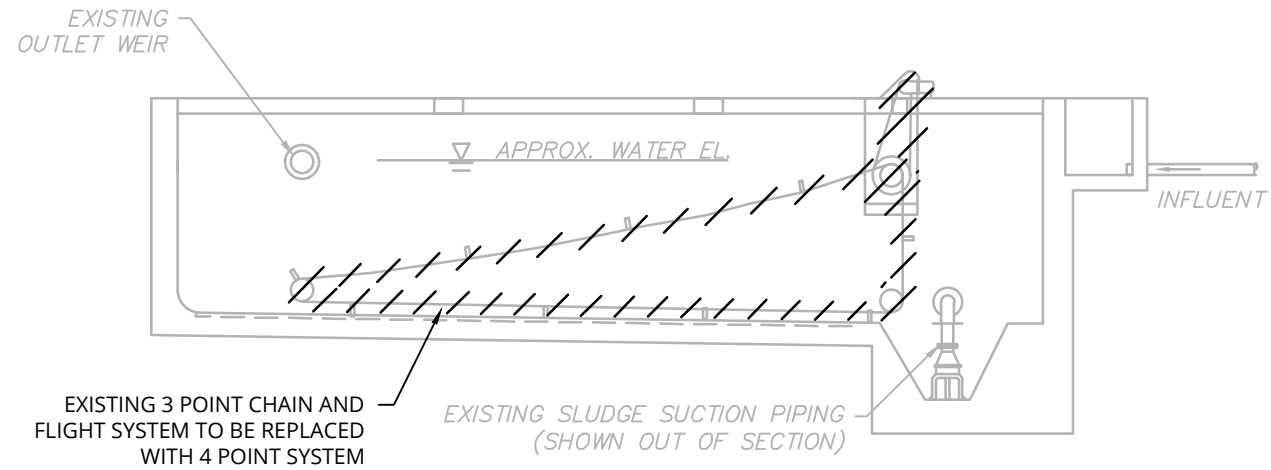
Engineering & Design

TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING TRICKLING FILTER PROPOSED DETAILS	DRAWING NUMBER: M-17



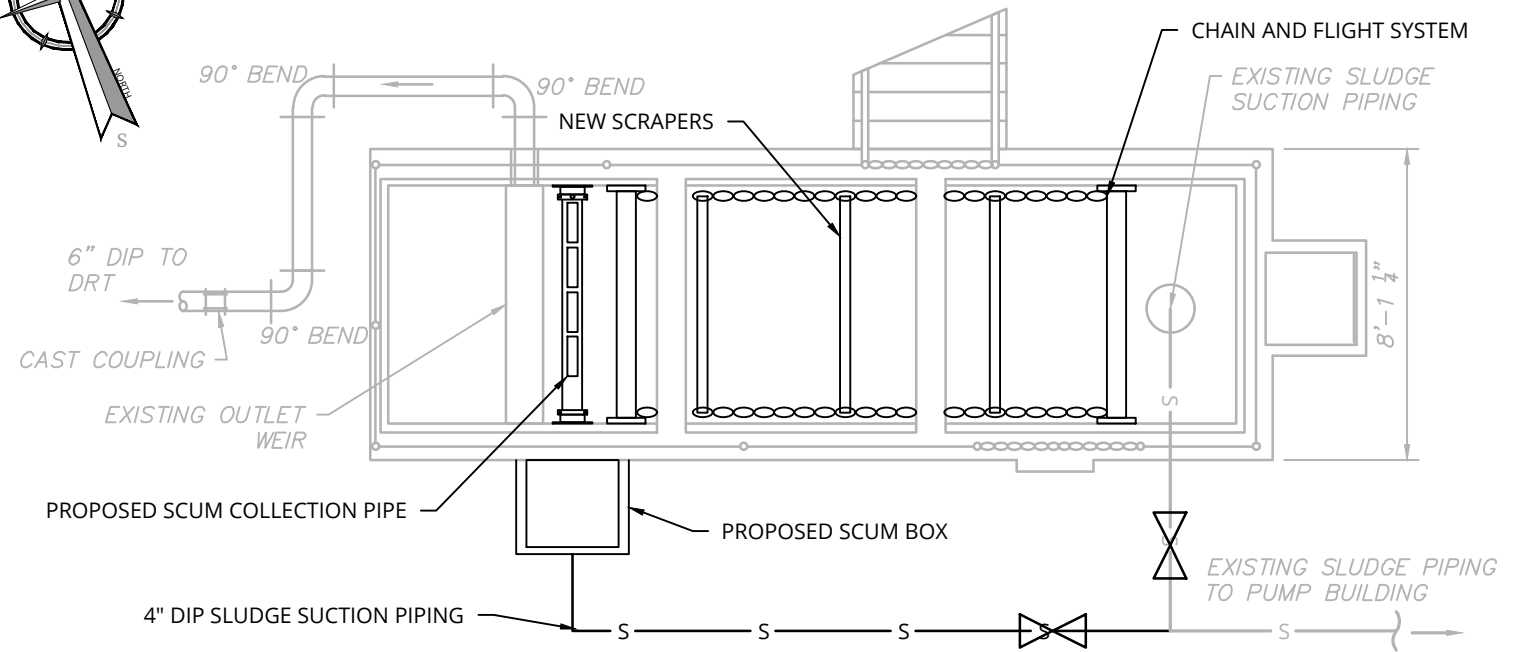
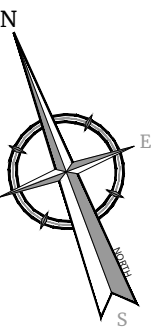
SECONDARY CLARIFIER DEMOLITION PLAN

SCALE: 1"=5'



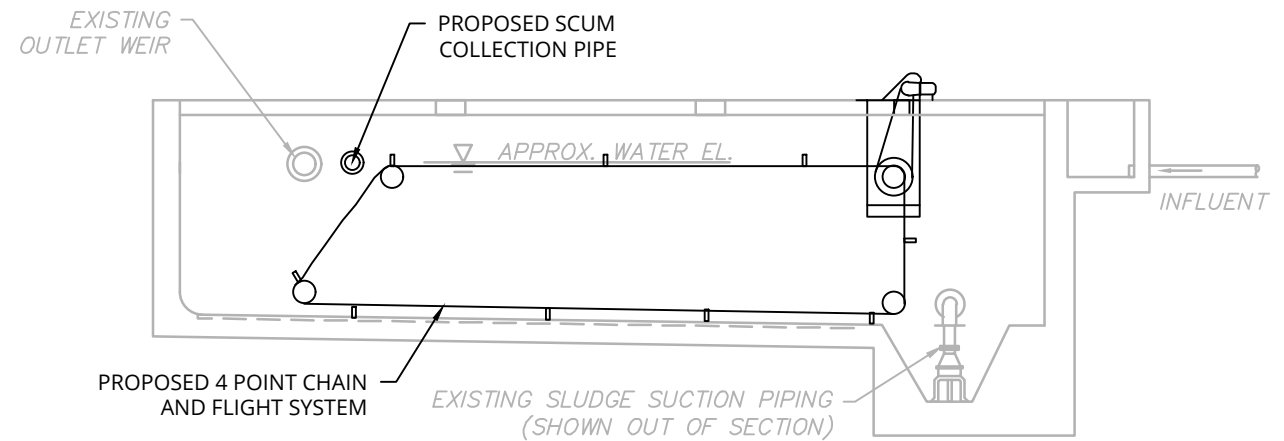
SECONDARY CLARIFIER DEMOLITION SECTION

SCALE: 1"=5'



SECONDARY CLARIFIER PROPOSED PLAN

SCALE: 1"=5'



SECONDARY CLARIFIER PROPOSED SECTION

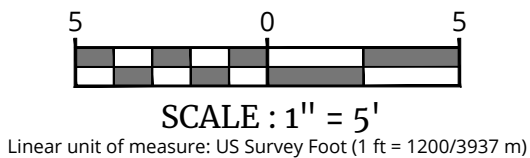
SCALE: 1"=5'

NOTES:

1. ALL INVERTS ARE TO BE VERIFIED IN THE FIELD PRIOR TO THE COMMENCEMENT OF WORK

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING SECONDARY CLARIFIER DEMOLITION AND PROPOSED PLANS	DRAWING NUMBER: M-18

PW:/

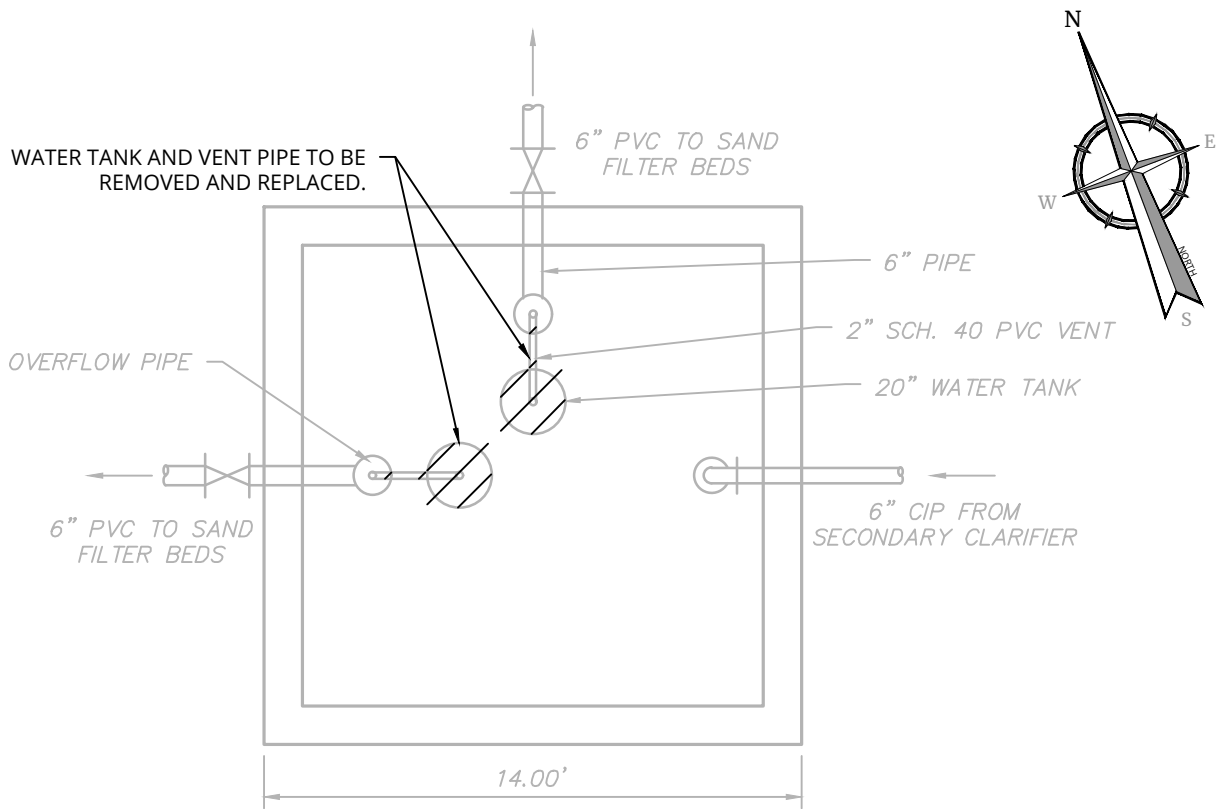
CHECKED BY: JBA / RAP

DRAFTED BY: SMB /

CHECKED BY: JBA / RAP

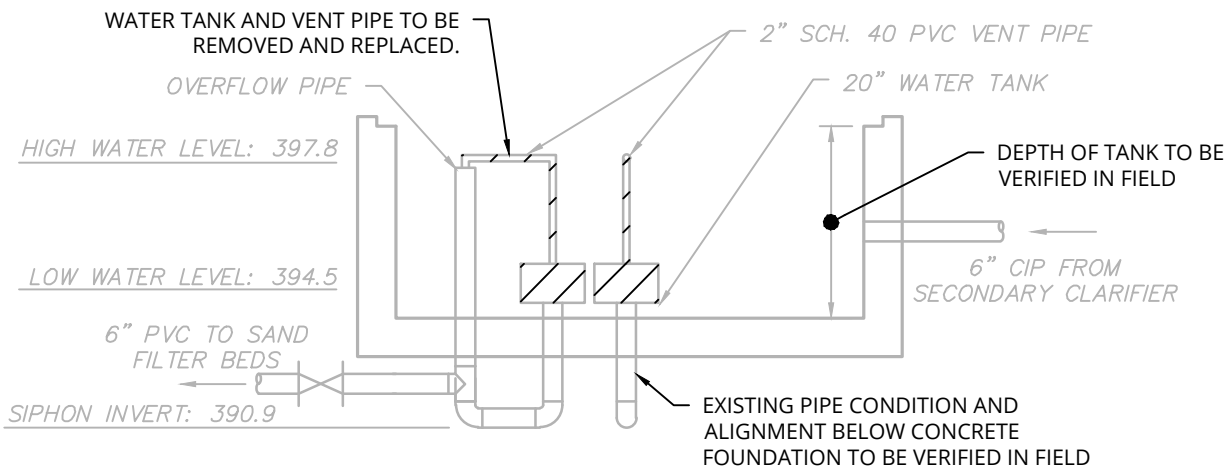
DESIGNED BY: ERE / SMB

DESIGN SUPERVISOR: JBA



DOSING CHAMBER PROPOSED PLAN

SCALE: 1"=5'



DOSING CHAMBER DEMOLITION SECTIONS

SCALE: 1"=5'

ALTERED ON:

08/14/2026

SIGNATURE:

STAMP:

SIGNATURE:

STAMP:



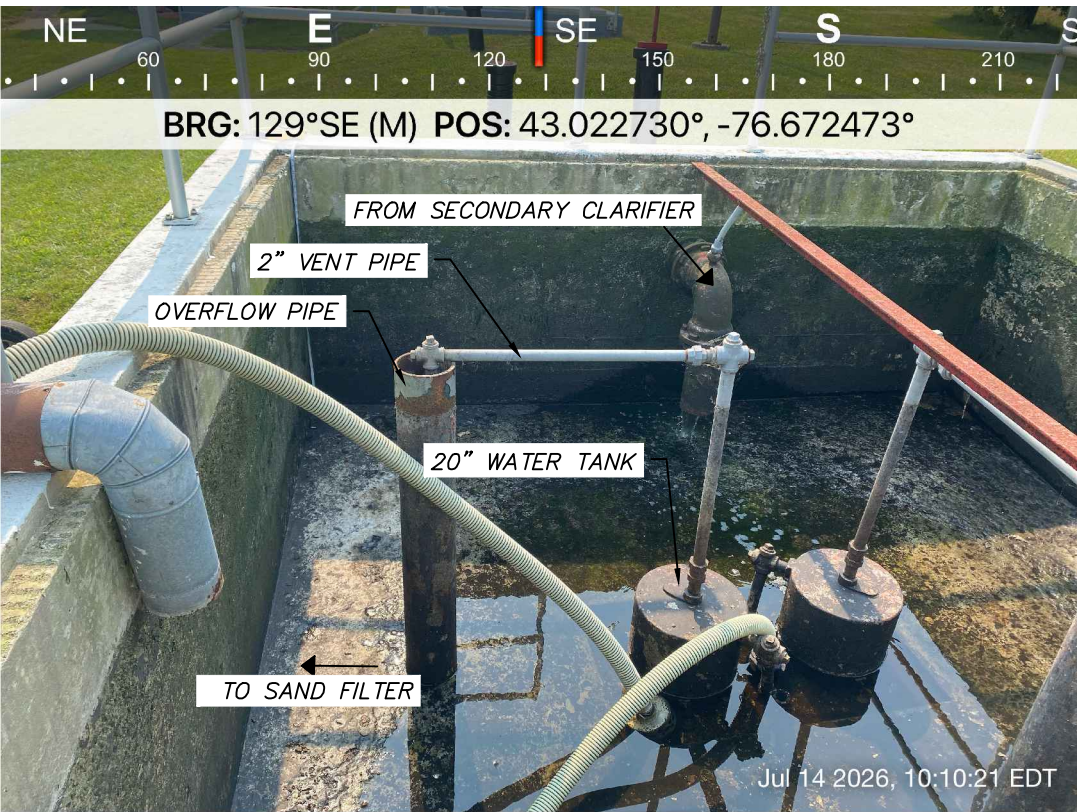
SCALE : 1" = 5'

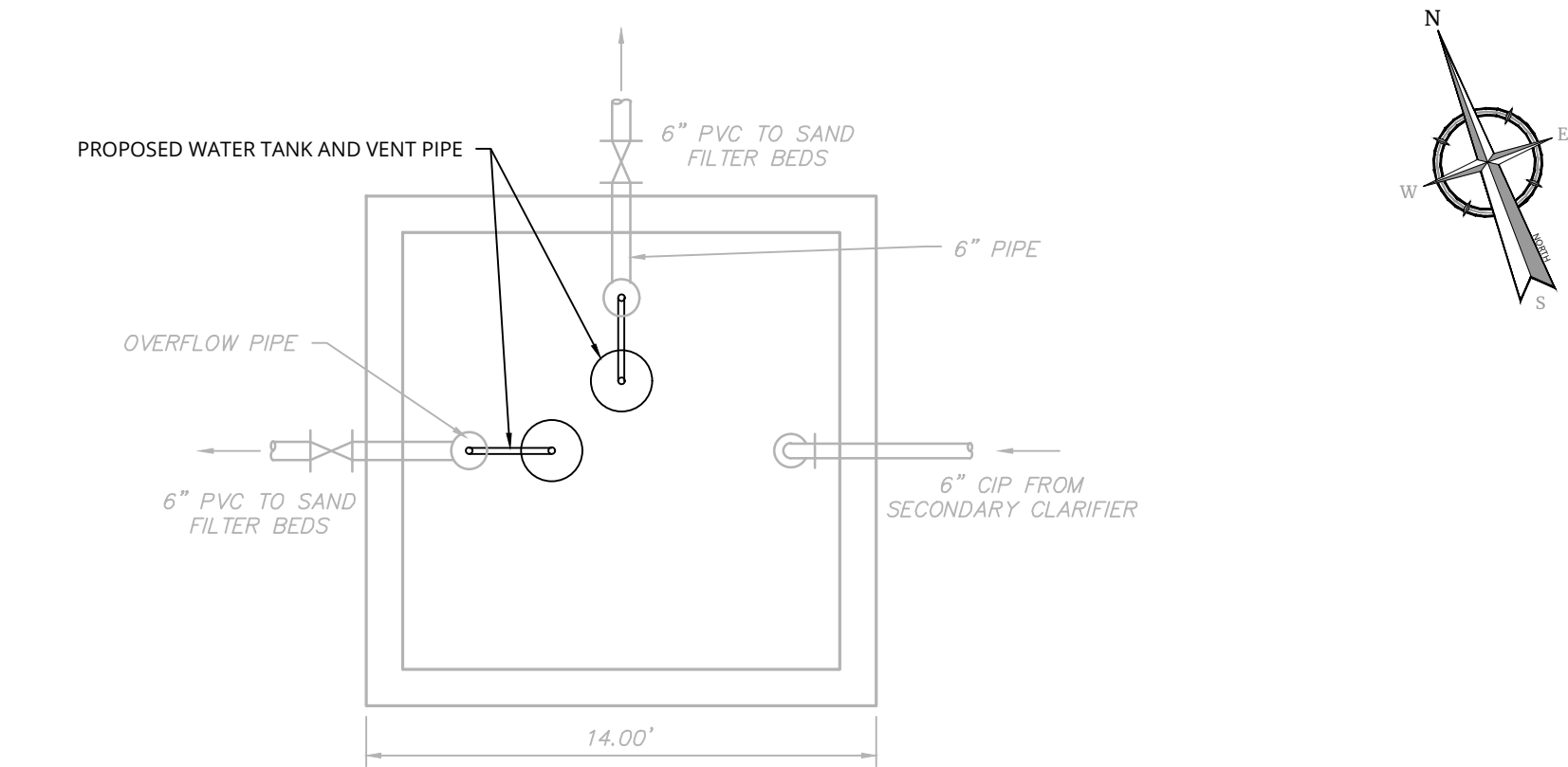
Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

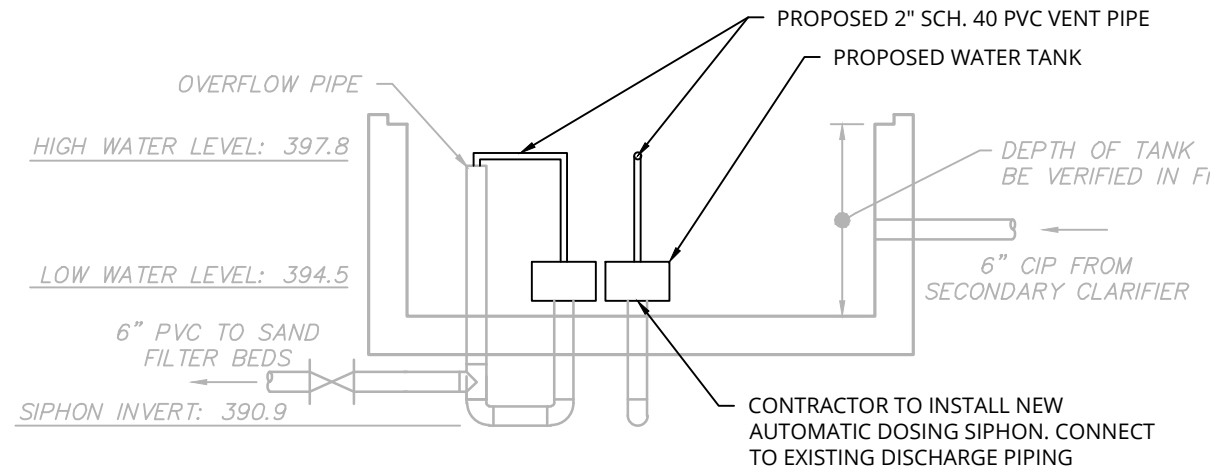
TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING DOSING CHAMBER DEMO PLAN AND SECTION	DRAWING NUMBER: M-19





DOSING CHAMBER PROPOSED PLAN

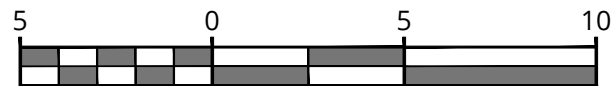
SCALE: 1"=5'



DOSING CHAMBER PROPOSED SECTION

SCALE: 1"=5'

ALTERED ON:	AFFIXED ON: 08/14/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP: 



SCALE : 1" = 5'

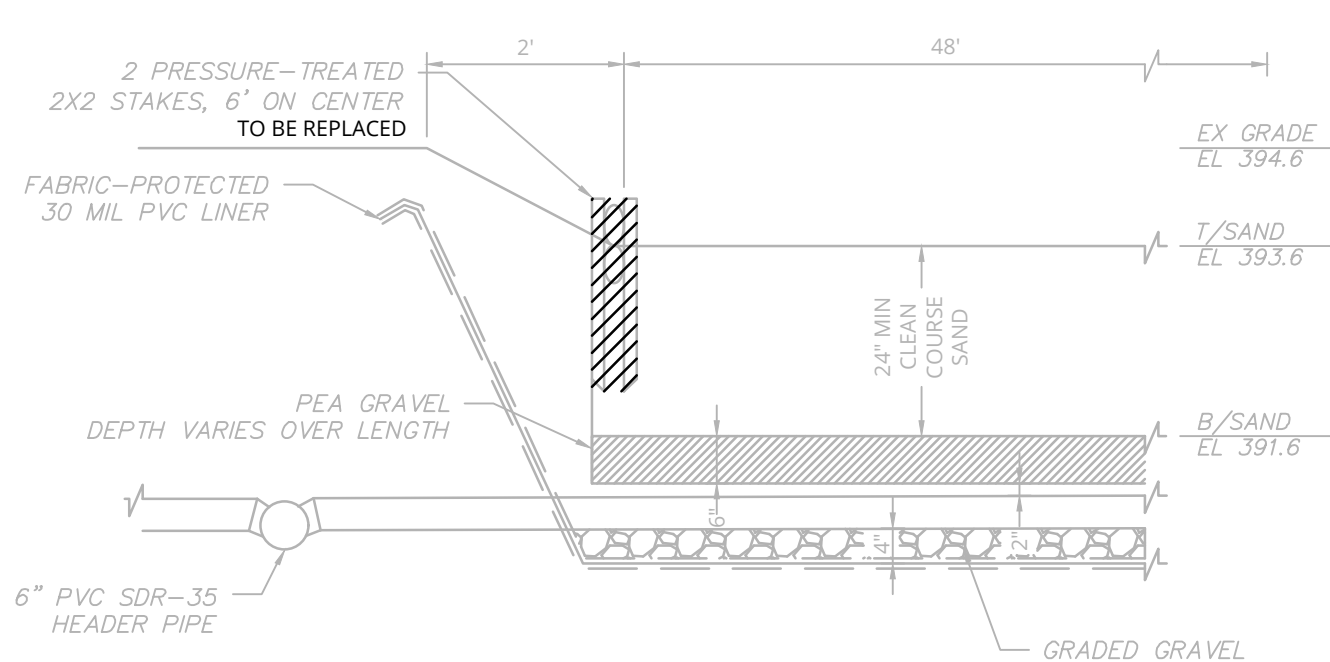
Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

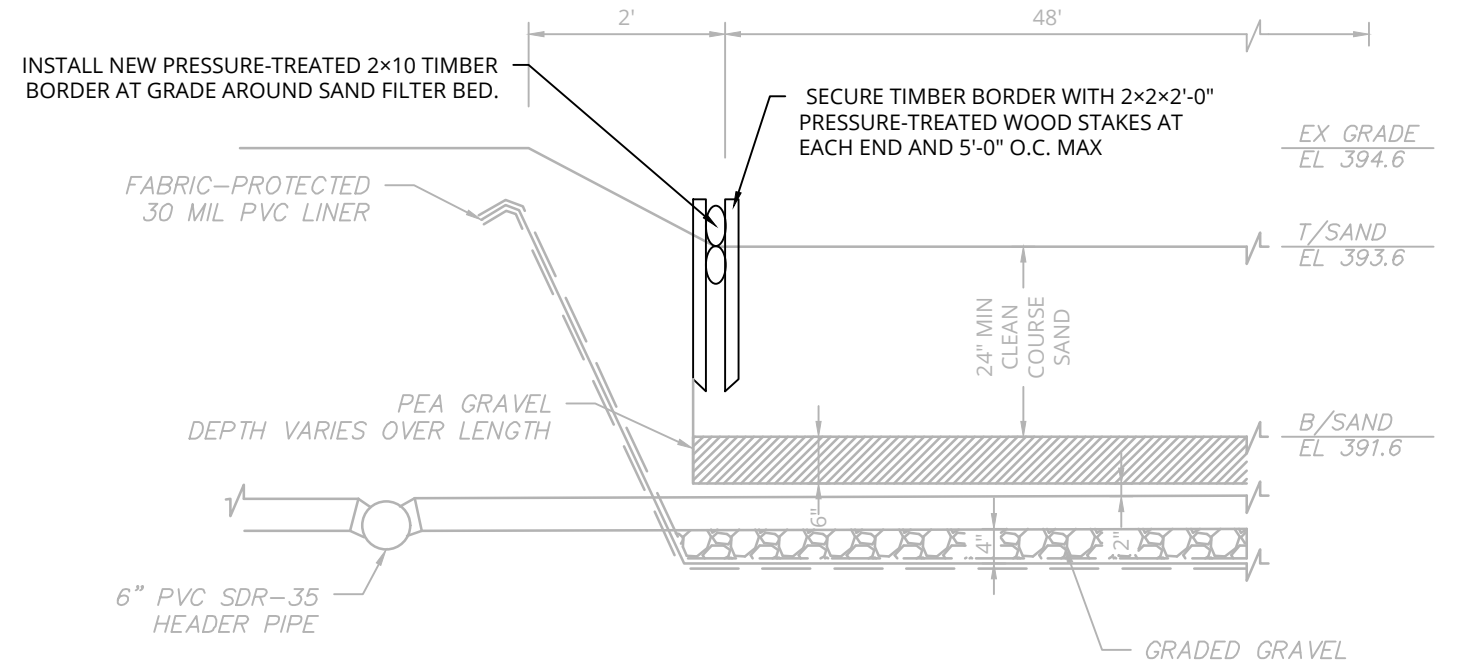


TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING DOSING CHAMBER PROPOSED PLAN AND SECTION	DRAWING NUMBER: M-20



SAND FILTER BEDS DEMOLITION SECTION

SCALE: 1/2"=1'



SAND FILTER BEDS PROPOSED SECTION

SCALE: 1/2"=1'

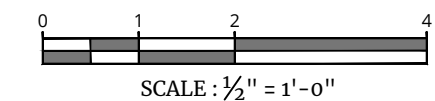
NOTES:

1. REFER TO SITE IMPROVEMENTS PLAN SHEET C-2 FOR REQUIRED LENGTHS. APPROXIMATELY 375 LF OF TIMBER BORDERS TO BE REPLACED.

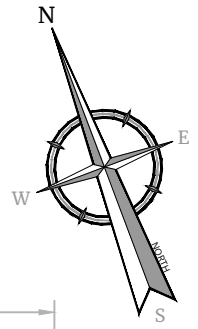
ALTERED ON:	AFFIXED ON: 08/14/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP: 

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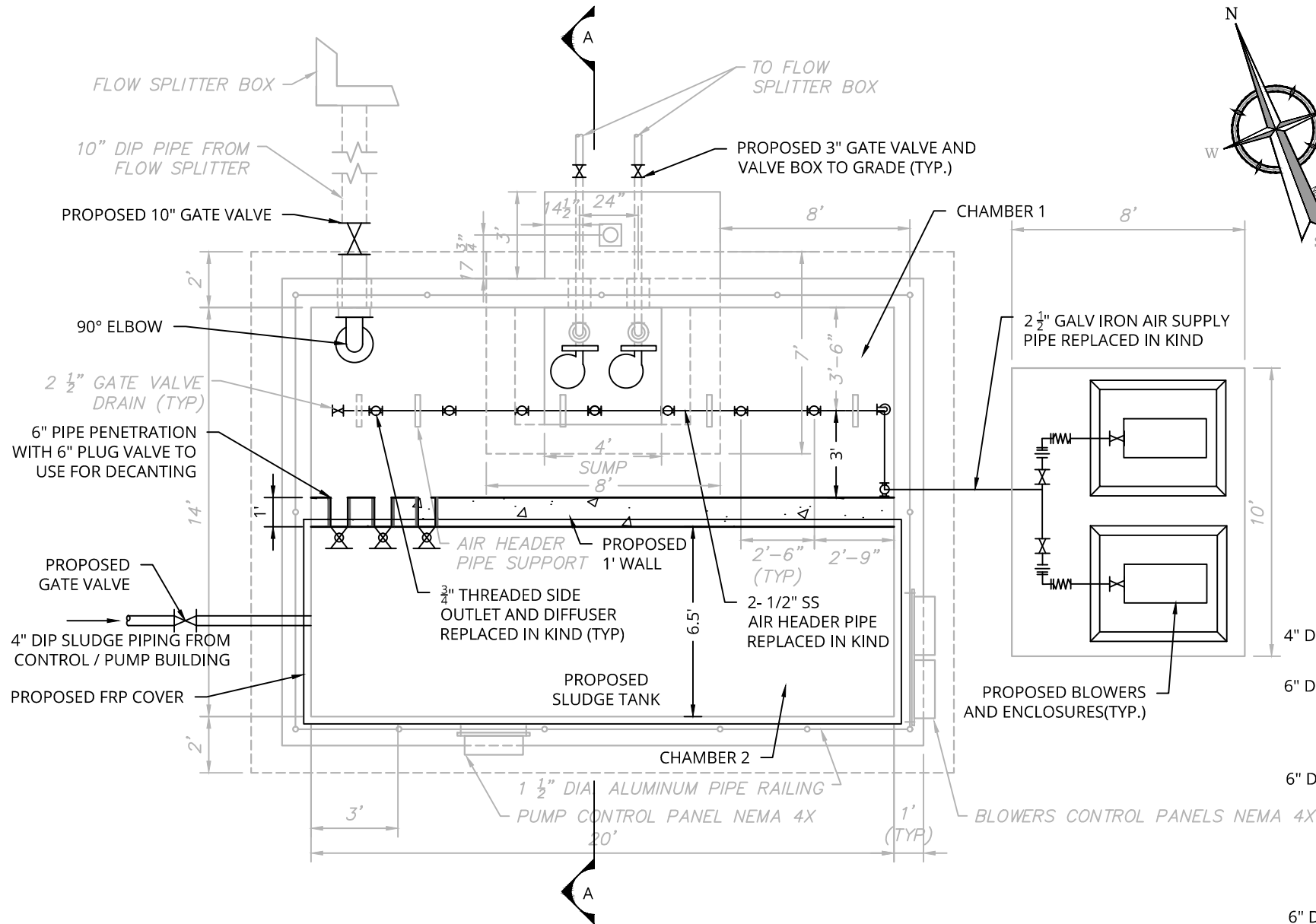
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING SAND FILTER BEDS DEMOLITION AND PROPOSED SECTIONS	DRAWING NUMBER: M-21



TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING EQUALIZATION TANK DEMOLITION PLAN AND SECTION	DRAWING NUMBER: M-22



EQUALIZATION TANK PROPOSED PLAN

SCALE: 1"=5'

NOTES:

- 1. ALL INVERTS ARE TO BE VERIFIED IN THE FIELD PRIOR TO THE COMMENCEMENT OF WORK

ALTERED ON:

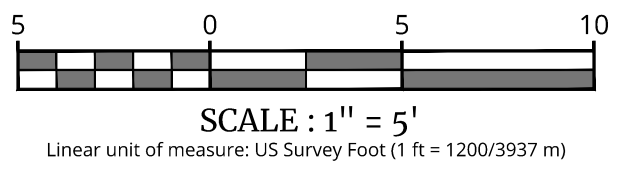
08/14/2026

SIGNATURE:

SIGNATURE:

STAMP:

STAMP:

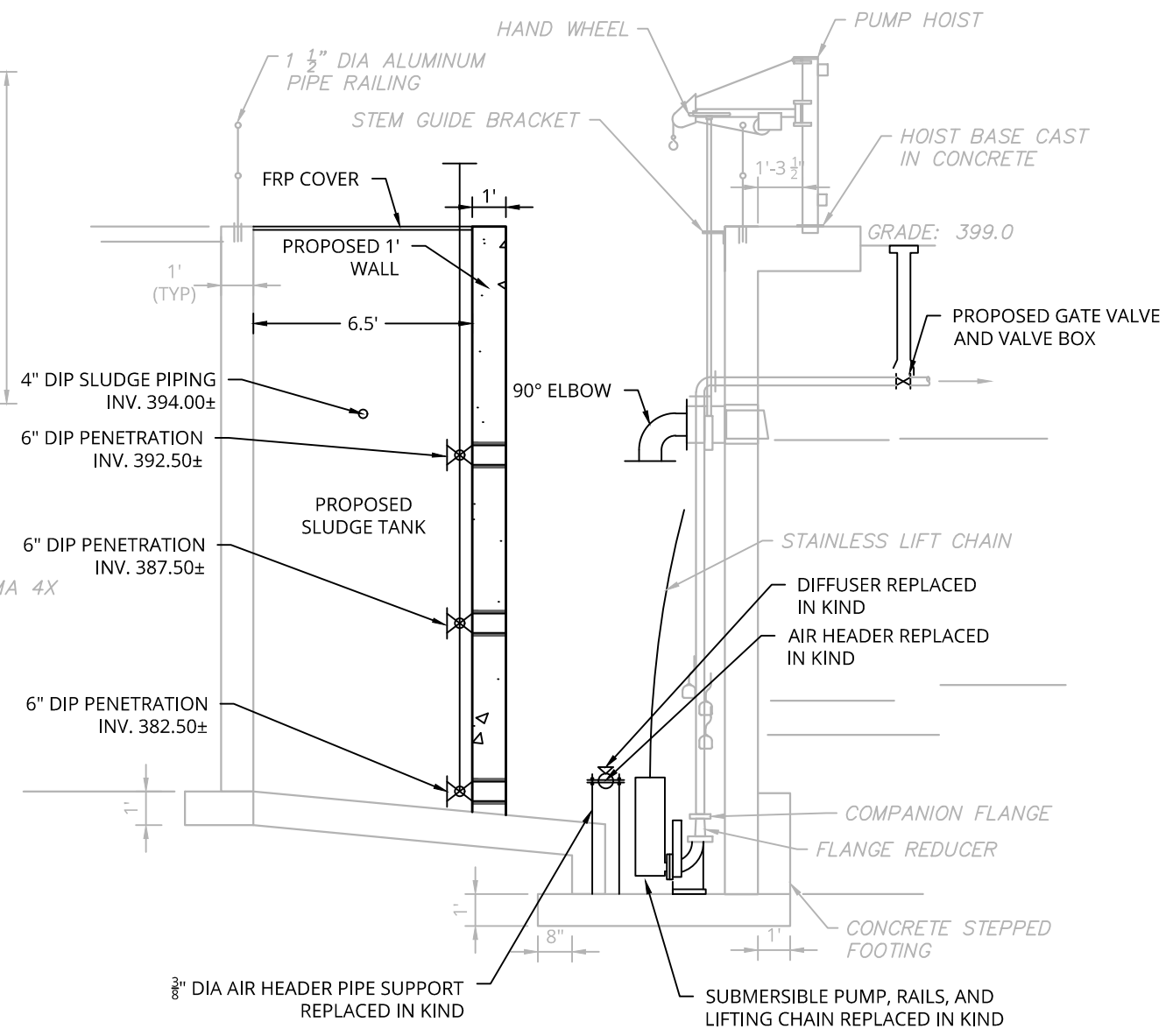


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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

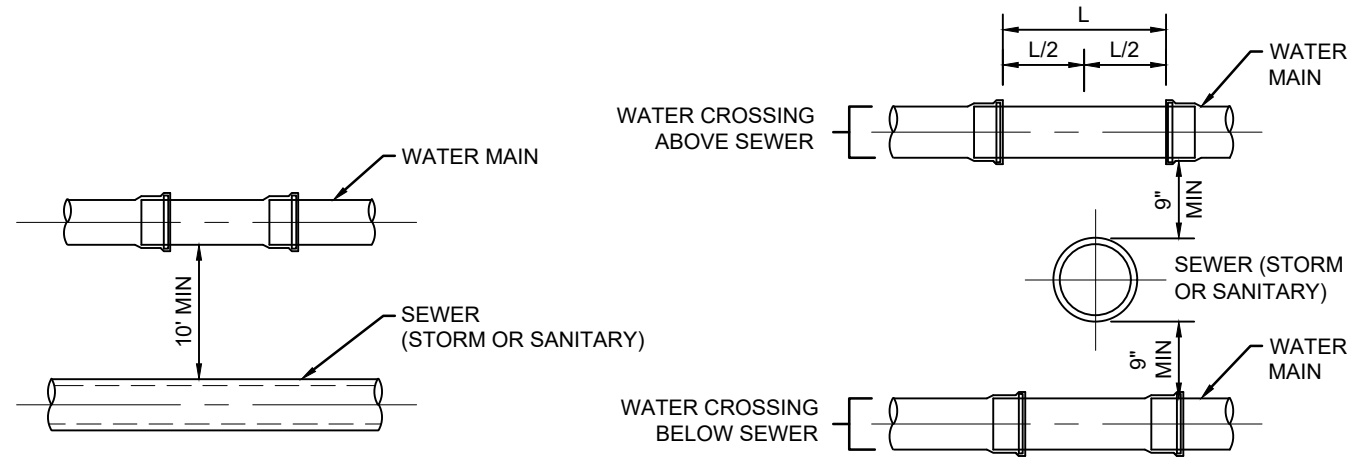


TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING EQUALIZATION TANK PROPOSED PLAN AND SECTION	DRAWING NUMBER: M-23



(A) EQUALIZATION TANK PROPOSED PROFILE

SCALE: 1"=5'



WATER MAIN/SEWER
PARALLEL INSTALLATION

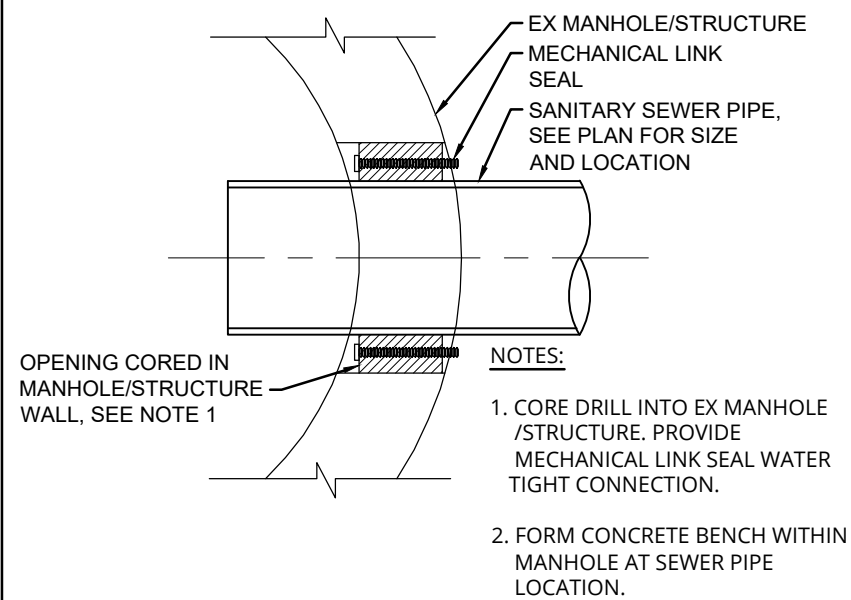
WATER MAIN/
SEWER CROSSING

NOTES:

1. INSTALL WATER MAINS PARALLEL TO STORM AND/OR SANITARY SEWER. PIPES SHALL HAVE A MINIMUM OF 10-FEET HORIZONTAL SEPARATION (MEASURED EDGE OF PIPE TO EDGE OF PIPE).
2. WHEN 10-FEET HORIZONTAL SEPARATION CANNOT BE MAINTAINED, ENCASE THE WATER MAIN WITH FLOW ABLE FILL FOR 10-FEET ON BOTH SIDES OF THE CROSSING.

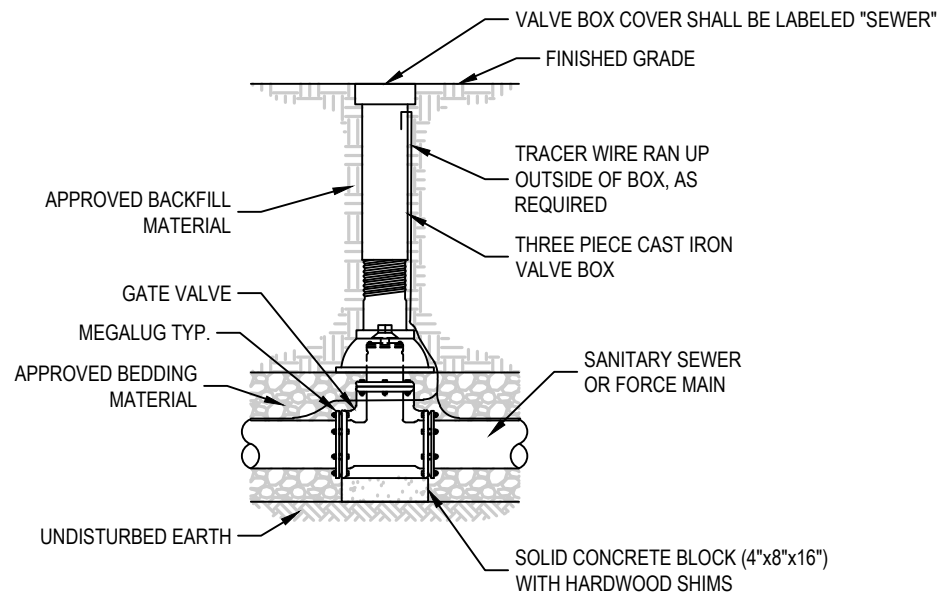
WATER / SEWER CROSSING

SCALE: NONE



EXISTING MANHOLE /
STRUCTURE PENETRATION

SCALE: NONE

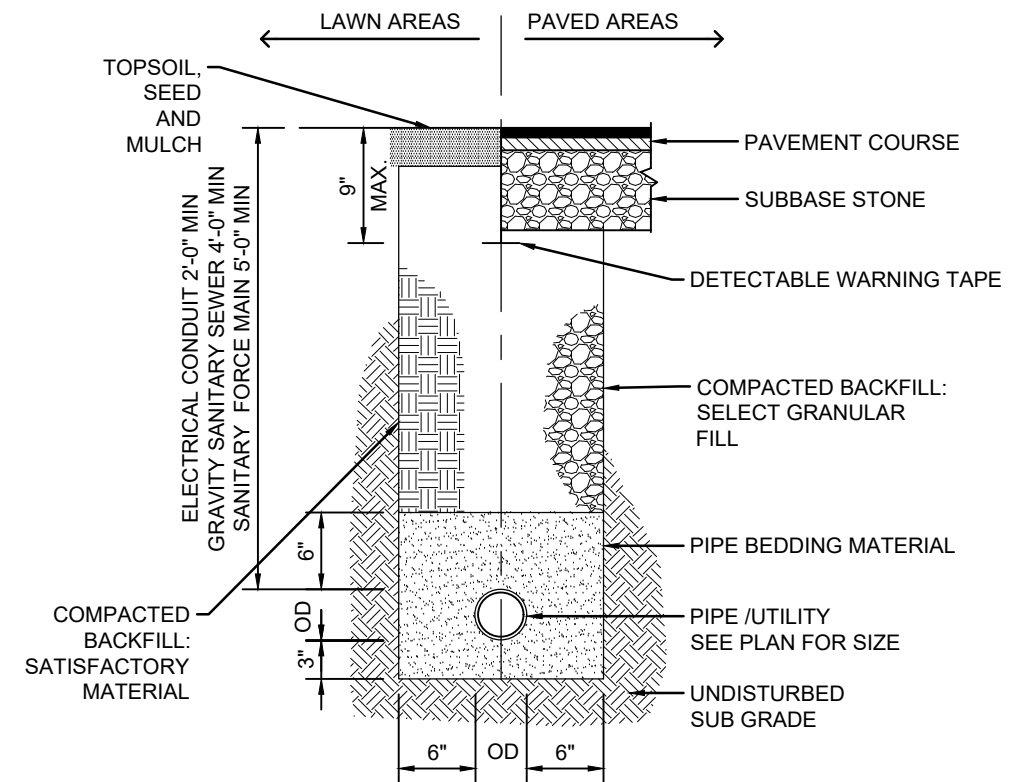


NOTES:

1. VALVE SHALL NOT SUPPORT VALVE BOX.
2. GATE VALVE SHALL BE INSTALLED LEVEL AND VERTICALLY PLUMB.
3. VALVE BOX SHALL BE PLUMB TO GRADE, WITH OPERATING NUT CENTERED IN BOX.

GATE VALVE ASSEMBLY DETAIL

SCALE: NONE

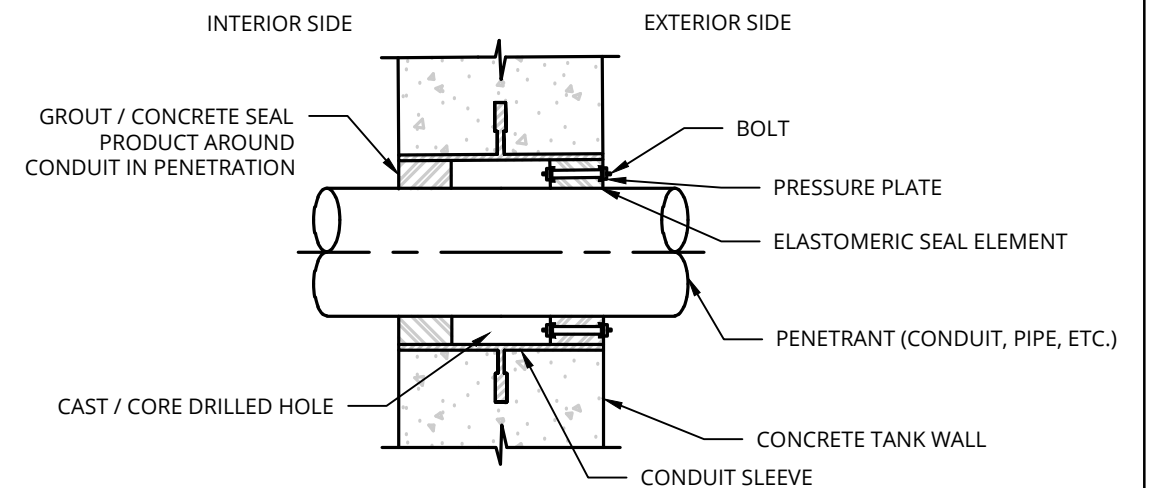


NOTE:

1. UTILIZE TRENCH BOXES, SHEETING AND/OR SHIELDS FOR EXCAVATIONS IN ACCORDANCE WITH OSHA TRENCHING AND EXCAVATION REQUIREMENTS.

TRADITIONAL UTILITY TRENCH

SCALE: NONE



WALL PENETRATION CONDUIT SEAL DETAIL

SCALE: NONE

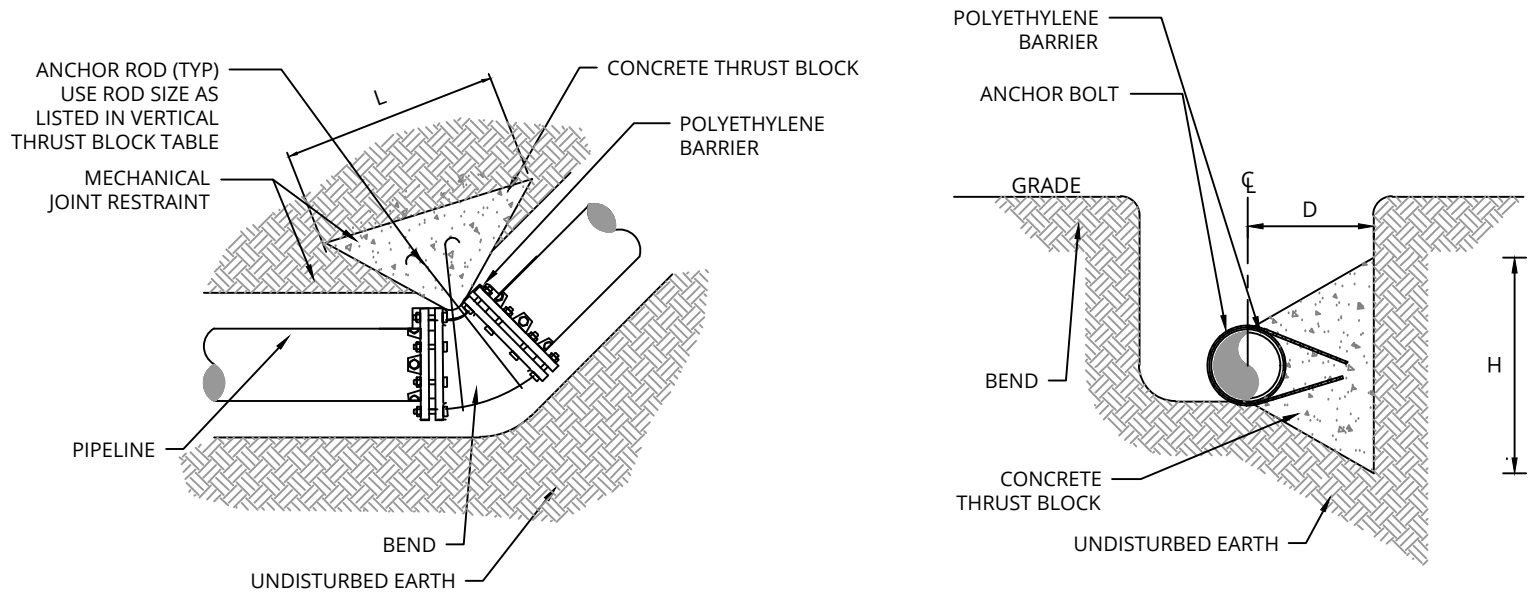
ALTERED ON:	AFFIRMED ON: 08/14/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP:

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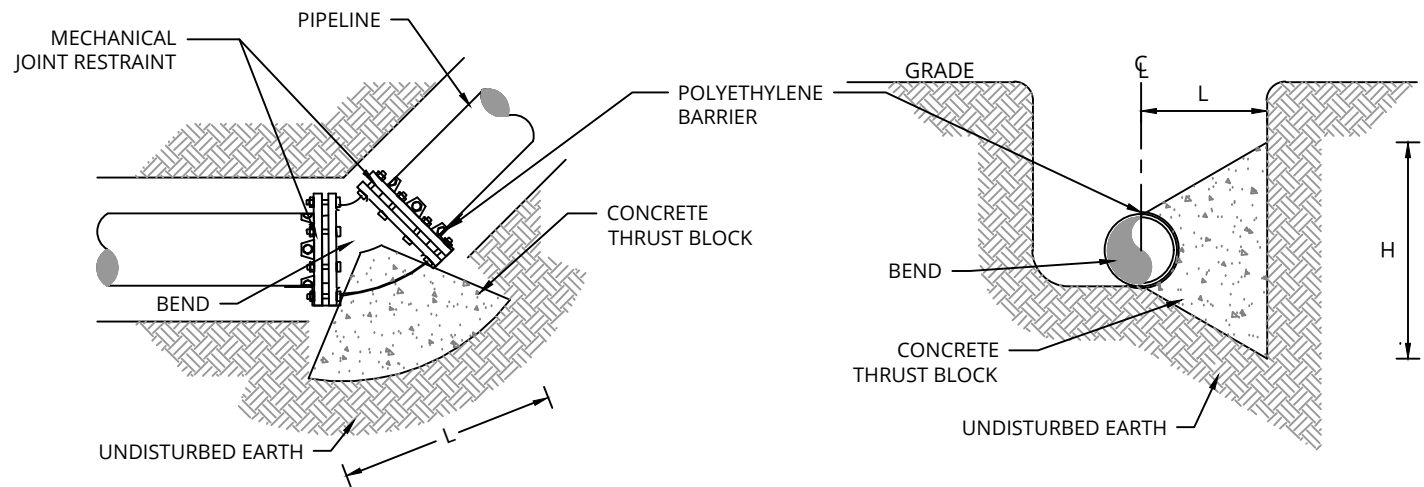
REVISIONS			
DATE	DESCRIPTION	BY	SYM.

TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING SITE DETAILS	DRAWING NUMBER: SD-1

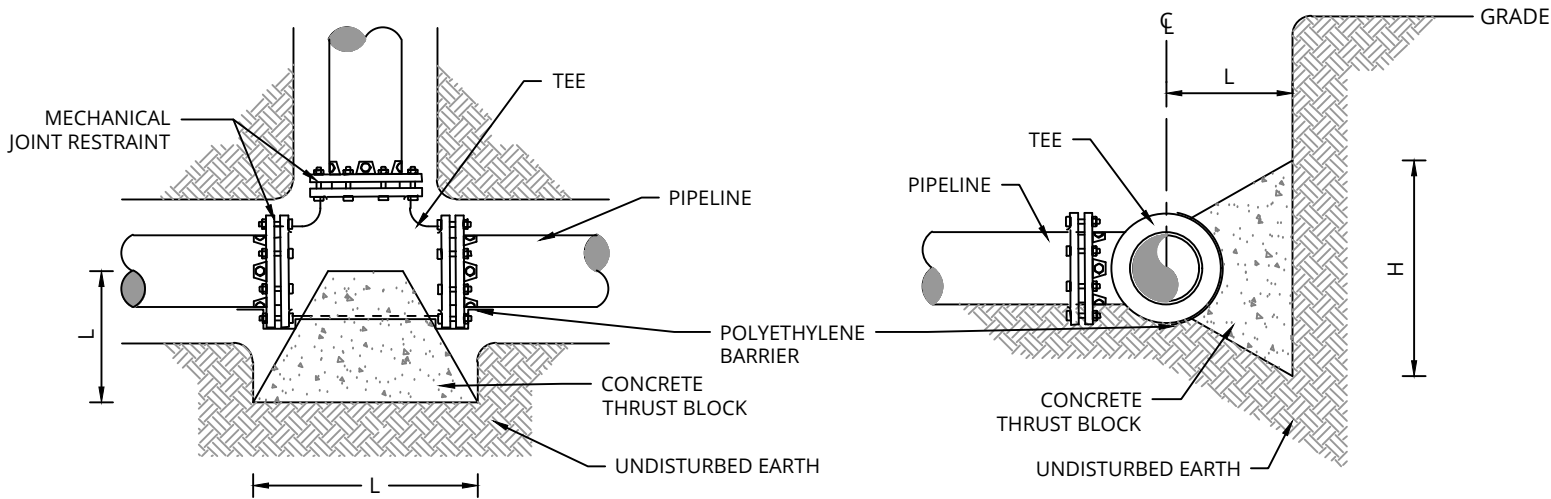
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HORIZONTAL THRUST BLOCK FOR BENDS IN PARALLEL PIPE TRENCH SECTION
SCALE: NONE



HORIZONTAL THRUST BLOCK FOR BENDS
SCALE: NONE



HORIZONTAL THRUST BLOCK FOR TEES
SCALE: NONE

UP TO 150 P.S.I. WORKING PRESSURE										
	H	L	H	L	H	L	H	L	H	L
6"	1'-0"	2'-0"	1'-0"	2'-0"	1'-0"	1'-4"	0'-9"	1'-0"	0'-6"	1'-0"
8"	1'-4"	2'-8"	1'-4"	2'-8"	1'-4"	1'-6"	1'-0"	1'-0"	0'-9"	1'-0"
12"	2'-0"	4'-0"	2'-0"	4'-0"	2'-0"	2'-2"	1'-6"	1'-6"	1'-3"	1'-3"
14"	2'-4"	4'-8"	2'-4"	4'-8"	2'-4"	2'-6"	1'-9"	1'-9"	1'-4"	1'-4"
16"	2'-8"	5'-4"	2'-8"	5'-4"	2'-8"	3'-0"	2'-0"	2'-0"	1'-6"	1'-6"

NOTES:

- SIZES BASED ON 150 PSI PRESSURE IN PIPELINE AND 2,000 PSF SOIL BEARING STRENGTH.
- ALL EXPOSED PORTIONS OF ANCHOR STRAPS TO RECEIVE A MINIMUM OF 2 FIELD COATS OF BITUMASTIC MATERIAL.
- PRIOR TO PLACING CONCRETE WRAP ANCHORS & ALL FITTINGS IN 8-MIL THICK POLYTHENE.
- ALL ANCHOR RODS SHALL BE TYPE 304 STAINLESS STEEL.

THRUST BLOCK - HORIZONTAL (TYP.)
SCALE: NONE

ALTERED ON:

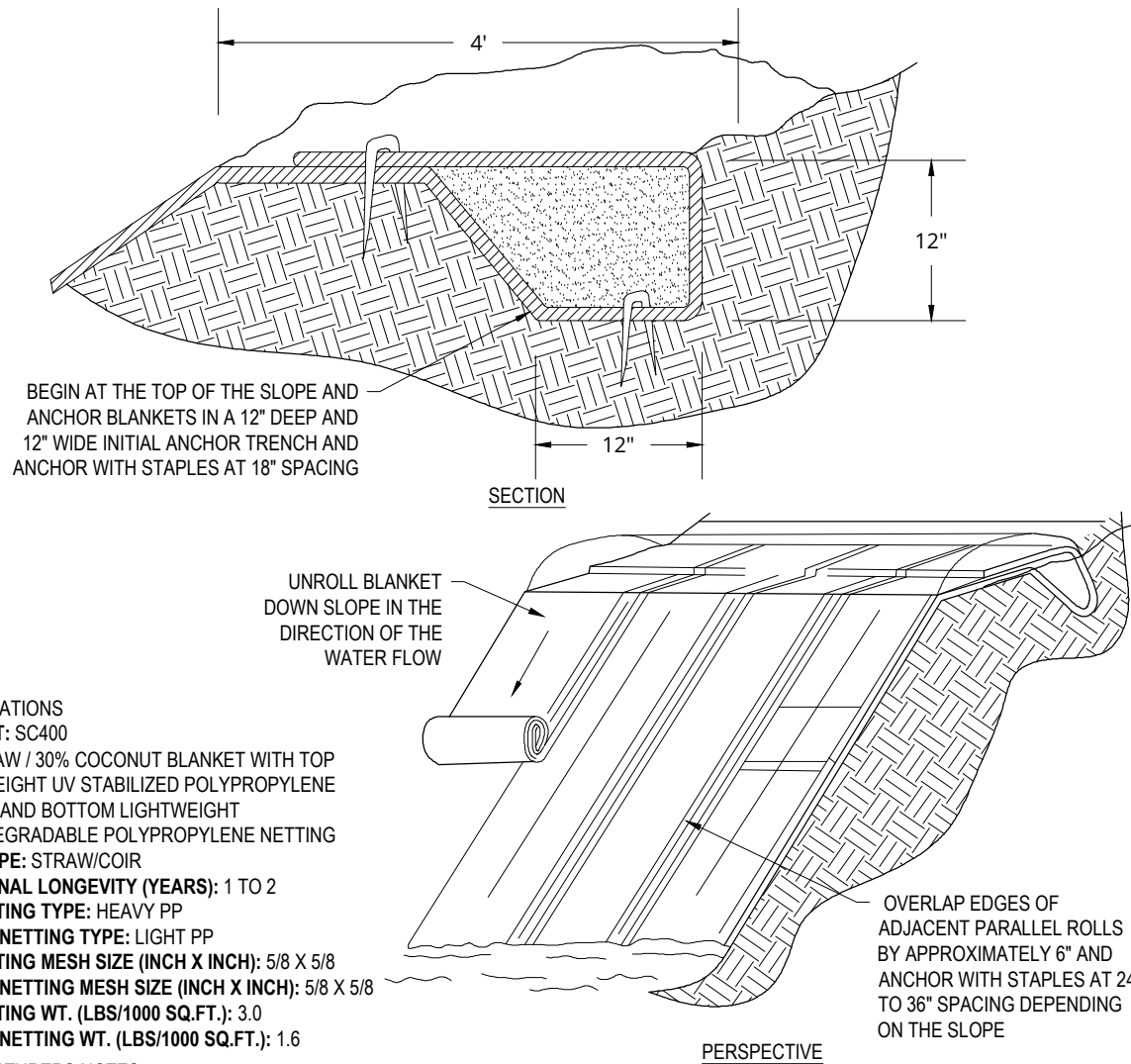
08/14/2026

SIGNATURE:
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING SITE DETAILS	DRAWING NUMBER: SD-3

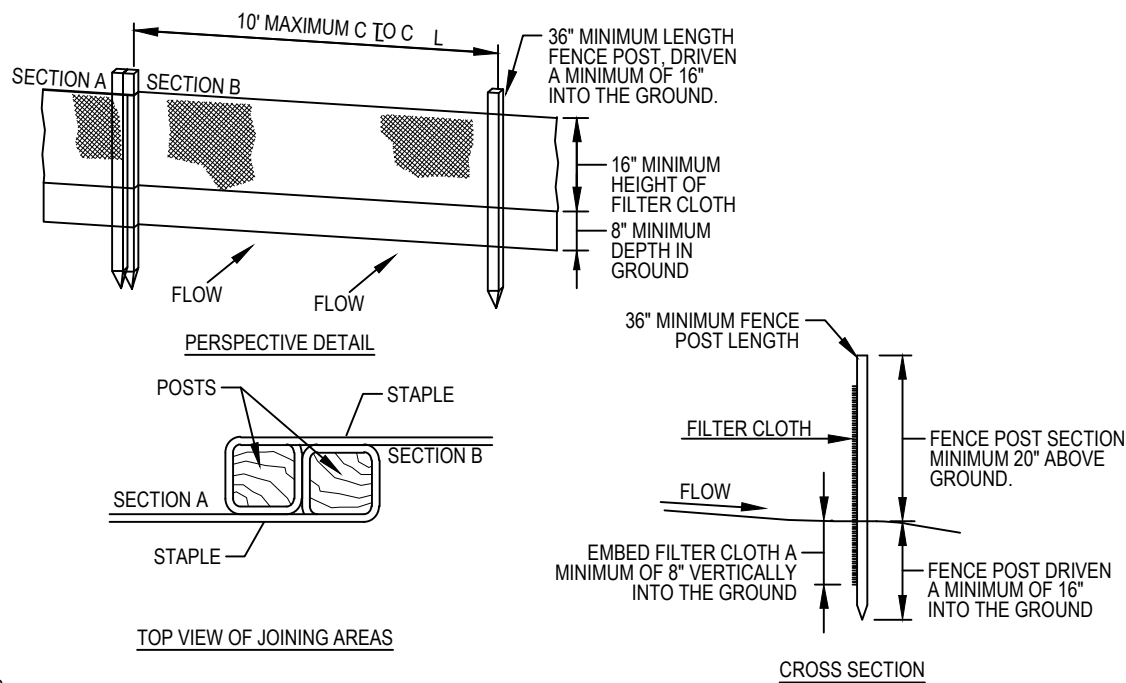


SPECIFICATIONS
PRODUCT: SC400
70% STRAW / 30% COCONUT BLANKET WITH TOP HEAVYWEIGHT UV STABILIZED POLYPROPYLENE NETTING AND BOTTOM LIGHTWEIGHT PHOTODEGRADABLE POLYPROPYLENE NETTING
FIBER TYPE: STRAW/COIR
FUNCTIONAL LONGEVITY (YEARS): 1 TO 2
TOP NETTING TYPE: HEAVY PP
BOTTOM NETTING TYPE: LIGHT PP
TOP NETTING MESH SIZE (INCH X INCH): 5/8 X 5/8
BOTTOM NETTING MESH SIZE (INCH X INCH): 5/8 X 5/8
TOP NETTING WT. (LBS/1000 SQ.FT.): 3.0
BOTTOM NETTING WT. (LBS/1000 SQ.FT.): 1.6

MANUFACTURERS NOTES

1. THESE BLANKETS CAN BE USED ON 2:1 TO 1:1 SLOPES AND IN CHANNELS WITH MODERATE TO SEVERE FLOW CONDITONS.

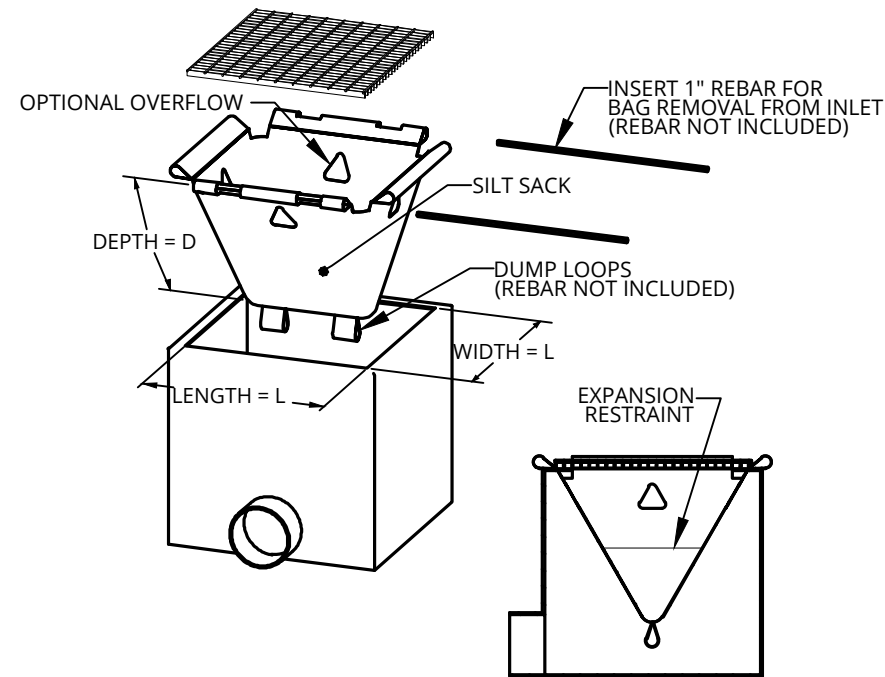
STRAW / COCONUT BLANKETS
SCALE: NONE



NOTES:

- WHERE ENDS OF THE FILTER CLOTH COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS.
- ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE.
- THE AREA BELOW THE FENCE MUST BE UNDISTURBED OR STABILIZED.
- FENCE POSTS (FOR FABRIC UNITS): THE LENGTH SHALL BE A MINIMUM OF 36 INCHES LONG. WOOD POSTS 2 X 2 WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES WILL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS WILL BE STANDARD T OR U SECTION WEIGHT NOT LESS THAN 1.00 POUND PER LINEAR FOOT.

SILT FENCE INSTALLATION
SCALE: NONE



SILT SACK - TYPE A
SCALE: NONE

ALTERED ON:	AFFIXED ON: 08/14/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP:

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING SITE DETAILS	DRAWING NUMBER: SD-4

NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED APPEAR ON THESE CONTRACT DRAWINGS. INDIVIDUAL DRAWINGS MAY HAVE SHEET LEGENDS FOR UNIQUE SYMBOLS AND FOR CONVENIENCE.

ELECTRICAL SYMBOL LIST

GENERAL ———— LIGHT LINE WEIGHT INDICATES EXISTING ITEMS TO REMAIN OR PROVIDED BY OTHERS. ———— HEAVY LINE WEIGHT INDICATES ITEMS TO BE REMOVED, RELOCATED, OR PROVIDED BY E.C. LIGHTING  LIGHT FIXTURE - SURFACE OR RECESSED MOUNTED. LETTERS INDICATE FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTERS INDICATE SWITCHING ARRANGEMENT. NUMBER INDICATES BRANCH CIRCUIT. "EM" INDICATES TO PROVIDE WITH INTEGRAL BATTERY. SHADING INDICATES EMERGENCY LIGHTING  LIGHT FIXTURE - SURFACE OR RECESSED MOUNTED. LETTERS INDICATE FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTERS INDICATE SWITCHING ARRANGEMENT. NUMBER INDICATES BRANCH CIRCUIT. SHADING INDICATES EMERGENCY LIGHTING  EXIT SIGN LIGHT. LETTERS INDICATE FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE. ARROWS INDICATE DIRECTION. SHADING INDICATES NUMBER OF FACES.  EXIT SIGN LIGHT WITH EMERGENCY LIGHT HEADS. LETTERS INDICATE FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE. SHADING INDICATES NUMBER OF FACES.  EMERGENCY LIGHT HEADS - SINGLE HEAD AND DOUBLE HEADS  EMERGENCY BATTERY LIGHTING UNIT. WIRE AHEAD OF LOCAL SWITCHING  LIGHT ON CORD REEL  LIGHT SWITCH 20A, 120/277V "K" SINGLE POLE "3" KEY OPERATION "WP" WEATHER PROOF "4" 4-WAY OPERATION "a" SWITCHING ARRANGEMENT "T" TIMER "P" PILOT LIGHT  DUAL TECHNOLOGY WALL SWITCH TYPE OCCUPANCY SENSOR  DUAL TECHNOLOGY WALL SWITCH TYPE OCCUPANCY SENSOR WITH 0-10V DIMMING  DUAL RELAY WALL SWITCH TYPE OCCUPANCY SENSOR  INFRARED WALL SWITCH TYPE OCCUPANCY SENSOR  0-10V WALL SWITCH DIMMER  WALL SWITCH TYPE VACANCY SENSOR  WALL SWITCH TYPE VACANCY SENSOR WITH 0-10V DIMMING  WALL POD WITH PRESET SCENES AND 0-10V DIMMING  OCCUPANCY SENSOR - CEILING MOUNTED "A" - 1000 SQ. FT. COVERAGE "B" - 2000 SQ. FT. COVERAGE "C" - HALLWAY TYPE  VACANCY SENSOR - CEILING MOUNTED "A" - 1000 SQ. FT. COVERAGE "B" - 2000 SQ. FT. COVERAGE  POWER PACK  PHOTOCELL FOR LIGHTING CONTROL LIGHT LEVEL SENSOR - TYPE DENOTED TIME CLOCK	POWER  POWER POLE  LIGHTING ARRESTOR  LIGHTNING PROTECTION AIR TERMINAL  LIGHTNING PROTECTION CONDUCTOR SPLICE  GROUND ROD  GROUND ROD (PLAN VIEW)  GROUND CONNECTION - EXOTHERMIC WELD  GROUND TEST WELL  GROUND CONNECTION TO STEEL OR STRUCTURE  SPECIAL RECEPT. OR CONN. (SEE SCHEDULE)  JUNCTION BOX  PULL BOX  PANEL "X" 100A MLO 208/120V 3Ø,4W 208/120V PANELBOARD - SURFACE MOUNTED, FLUSH MOUNTED  PANEL "X" 400A MCB 480/277V 3Ø,4W 480/277V PANELBOARD - SURFACE MOUNTED, FLUSH MOUNTED  MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER  DRAWOUT CIRCUIT BREAKER  DRAWOUT CIRCUIT BREAKER SPACE  MOLDED CASE CIRCUIT BREAKER  ENCLOSED CIRCUIT BREAKER  TRANSFORMER  GENERATOR  SF-1 MOTOR MANUAL MOTOR STARTER WITH THERMAL OVERLOAD MAG. MOTOR STARTER OR CONTACTOR COMB. MOTOR STARTER (NON-FUSED) COMB. MOTOR STARTER (FUSED) COMBINATION STARTER WITH RESET BUTTON, HAND OPERATED ACTUATOR, AND INDICATOR LIGHT	POWER  FUSE  SAFETY DISC. SW. (NON-FUSED)  SAFETY DISC. SW. (FUSED)  VARIABLE FREQUENCY CONTROLLER  VARIABLE FREQUENCY CONTROLLER WITH HAND OPERATED ACTUATOR AND INDICATOR LIGHT  VARIABLE FREQUENCY CONTROLLER WITH BYPASS, HAND OPERATED ACTUATOR, AND INDICATOR LIGHT  AUTOMATIC TRANSFER SWITCH  BUS PLUG  BUS DUCT WITH PLUG UN DISCONNECT (FUSED)  CONDUIT CONCEALED IN WALL OR OVERHEAD. CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 2 #12 & #12G CONDUCTORS IN 3/4" CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE.  CONDUIT SHOWN WITH SLASH MARKS SHALL CONTAIN 1#12 CONDUCTOR PER SLASH MARK IN 3/4" CONDUIT UNLESS THE CONDUCTOR SIZE AND CONDUIT SIZE ARE SHOWN ADJACENT TO THE SLASH MARKS. SLASH MARK INDICATORS ARE: SHORT STRAIGHT=PHASE CONDUCTOR, LONG STRAIGHT=NEUTRAL CONDUCTOR, SHORT BENT ENDED=SWITCH LEGS, LONG STRAIGHT WITH A DOT=GROUND CONDUCTOR.  CONDUIT CONCEALED  CONDUIT EXPOSED  SURFACE RACEWAY  CONDUIT TRANSITION UP  CONDUIT TRANSITION DOWN  CONDUIT STUBBED OUT  HEAT TRACE WIRING  HOMERUN TO PANEL BOARD, LETTERS INDICATE PANEL NAME. ARROWS INDICATE NUMBER OF CIRCUITS. NUMBERS INDICATE CIRCUIT DESIGNATIONS IN PANEL.  UNDERFLOOR RACEWAY SYSTEM  CABLE TRAY. "FS" INDICATES FIRE STOP LOCATION  CONDUIT SLEEVE	POWER  SINGLE RECEPT. 120V, 20A, NEMA 5-20R UNLESS NOTED OTHERWISE  DUPLEX RECEPT. 120V, 20A, NEMA 5-20R UNLESS NOTED OTHERWISE  SPLIT DUPLEX RECEPT.  ISOLATED GROUND RECEPT (DUPLEX)  RECEPT ON EMERGENCY CKT (DUPLEX)  QUADRUPLEX RECEPT. 120V, 20A, NEMA 5-20R UNLESS NOTED OTHERWISE  QUADRUPLEX RECEPTACLE ON EMERGENCY CIRCUIT  240 VOLT RECEPT.  FLOOR RECEPT. (DUPLEX SHOWN)  RECEPT ON DROP CORD (DUPLEX SHOWN)  RECEPT ON CORD REEL (DUPLEX SHOWN)  SPECIAL RECEPTACLE. NEMA CONFIGURATION AND RATING AS INDICATED  EQUIPMENT PLUG  MULTIPLE SERVICE OUTLET  MULTIPLE SERVICE FLR OUTLET  MULTIOUTLET ASSEMBLY  CEILING RECEPTACLE	SIGNAL  DOOR INTERLOCK  ELECTRIC DOOR OPERATOR  ELECTRIC HINGE  ELECTRIC LATCH  ELECTRIC STRIKE  MOTION SENSOR FOR ACCESS CONTROL  POWER SUPPLY FOR ACCESS CONTROL  REQUEST TO EXIT DEVICE  DOOR STATUS CONTACTS  MAGNETIC LOCK  DOOR CONTACTS  CARD READER  KEYPAD  CCTV CAMERA F=FIXED, P=PAN, T=TILT, Z= ZOOM  WIRELESS ACCESS POINT  SPEAKER (WALL OR CEILING MT.)  VOLUME CONTROL  PUSH BUTTON  RELAY  HUMIDISTAT  THERMOSTAT  TELEPHONE OUTLET BOX TWO GANG JUNCTION BOX WITH 1 " CONDUIT STUBBED TO 6" ABOVE NEAREST ACCESSIBLE CEILING. NYLON BUSHING ON CONDUIT END, AND ALL RACEWAYS. ALL CABLING, TERMINATIONS AND TESTING BY OTHERS. DATA OUTLET BOX TWO GANG JUNCTION BOX WITH 1 " CONDUIT STUBBED TO 6" ABOVE NEAREST ACCESSIBLE CEILING. NYLON BUSHING ON CONDUIT END, AND ALL RACEWAYS. ALL CABLING, TERMINATIONS AND TESTING BY OTHERS. COMBINATION TELE/DATA OUTLET BOX TWO GANG JUNCTION BOX WITH 1 " CONDUIT STUBBED TO 6" ABOVE NEAREST ACCESSIBLE CEILING. NYLON BUSHING ON CONDUIT END, AND ALL RACEWAYS. ALL CABLING, TERMINATIONS AND TESTING BY OTHERS. TELEVISION OUTLET CEILING OR WALL MOUNT MULTIPLE SERVICE FLR OUTLET MULTIOUTLET ASSEMBLY CLOCK (WALL MOUNT)	SITE  POLE WITH STANCHION MOUNTED LIGHT FIXTURE. LETTERS INDICATED FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE. NUMBER INDICATES BRANCH CIRCUIT.  BOLLARD LIGHTING FIXTURE. LETTER INDICATE FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE. NUMBER INDICATES BRANCH CIRCUIT.  EXTERIOR WALL MOUNTED LIGHTING FIXTURE. LETTER INDICATES FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE. NUMBER INDICATES BRANCH CIRCUIT.  UTILITY SERVICE POLE  UNDERGROUND ELECTRIC  UNDERGROUND MEDIUM VOLTAGE ELECTRIC  UNDERGROUND TELEPHONE  UNDERGROUND COMMUNICATIONS  UNDERGROUND CABLE TELEVISION (CATV OR CCTV)  UNDERGROUND FIBER OPTIC  AERIAL ELECTRIC LINE  OVERHEAD TELEPHONE  OVERHEAD ELECTRIC  PIPE TAG  CONDUIT TAG	FIRE ALARM  FIRE ALARM CONTROL MODULE  FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED OR DUCT DETECTOR TYPE.  FIRE ALARM HEAT DETECTOR  FIRE ALARM COMBINATION HORN/STROBE UNIT WITH 15/30/75/110 CANDELA FIELD SELECTABLE UNIT  FIRE ALARM HORN UNIT  FIRE ALARM STROBE UNIT WITH 15/30/75/110 CANDELA FIELD SELECTABLE UNIT  FIRE ALARM MANUEL PULL STATION  FIRE ALARM CONTROL PANEL- WALL MOUNTED  FIRE ALARM ANNUNCIATOR PANEL - WALL MOUNTED  FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE  MAGNETIC HOLD OPEN DEVICE  FLOW SWITCH  TAMPER SWITCH  END OF LINE RESISTOR  CARBON MONOXIDE DETECTOR - CEILING MOUNTED  KNOX BOX
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GENERAL NOTES

1. MINIMUM CIRCUIT BREAKER SIZE FOR CONDUITS SHOWN ON PLANS IS 20A, 1 POLE FOR 120VAC UNLESS OTHERWISE NOTED/SHOWN ON PLANS

2. MINIMUM BRANCH CIRCUIT WIRING SHALL BE #12 AWG. DERATE CONDUCTORS PER NEC FOR VOLTAGE DROP AND CONDUIT FILL.

3. PROVIDE GROUNDING PER NEC (ARTICLE 250).

4. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FROM PANELBOARD FOR EACH BRANCH CIRCUIT.

5. CONTRACTOR SHALL COORDINATE WORK WITH ASSOCIATED TRADES.

6. MOUNTING HEIGHTS ARE TO CENTER OF EQUIPMENT/DEVICE UNLESS OTHERWISE NOTED.

7. CONTRACTOR SHALL SEAL WITH AN APPROVED METHOD ALL ELECTRICAL PENETRATIONS THRU FIRE FLOOR/PROOF/RATED WALLS, FLOORS, CEILINGS OR OTHER AREAS.

8. CONTRACTOR SHALL PROVIDE FUSES SIZED PER MANUFACTURERS RECOMMENDATIONS FOR ALL EQUIPMENT INSTALLED WITH FUSED STARTERS OR DISCONNECTS.

9. ALL EXTERIOR PVC CONDUIT SHALL TRANSITION TO RGS CONDUIT WITHIN 18" OF FOUNDATION WALL PRIOR TO PASSING THRU THAT WALL.

10. CONTRACTOR SHALL PROVIDE RACEWAY, WIRE, CABLE AND ASSOCIATED FITTINGS ALONG WITH COMPLETE CONNECTIONS REQUIRED FOR BRANCH CIRCUITS FROM DEVICES TO FINAL OVERCURRENT DEVICE AND LOCAL CONTROL DEVICE(S) PER PROJECT SPECIFICATIONS.
11. VERIFY EXACT LOCATION OF ELECTRICAL CONNECTION POINTS IN THE FIELD.

12. ALL CONDUCTORS THAT ARE RETAINED FOR REUSE SHALL BE MEGGER TESTED TO CONFIRM THE INSULATION IS NOT COMPROMISED. A VISUAL INSPECTION SHALL BE PERFORMED TO ENSURE THE CONDUCTORS ARE NOT DAMAGED.

13. CONTRACTOR SHALL STRIVE TO CONSOLIDATE CONDUITS AND ARRANGE IN A GEOMETRICALLY ALIGNED FASHION TO HAVE A LOW IMPACT ON THE AESTHETICS OF THE SPACE. EXPOSED CONDUITS SHALL BE PAINTED TO MATCH SURROUNDING CONDITIONS. REFER TO CONSTRUCTION COORDINATION REQUIREMENTS IN THE PROJECT SPECIFICATIONS.

14. PROVIDE LIGHTING CONTROLS INCLUDING DEVICE ITSELF, CONDUIT, CONDUCTORS, 0-10V WIRING, POWER PACKS, SLAVE PACKS, CONNECTORS, AND OTHER ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM.

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REVISIONS

DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT
REHABILITATION OF WASTEWATER TREATMENT PLANT

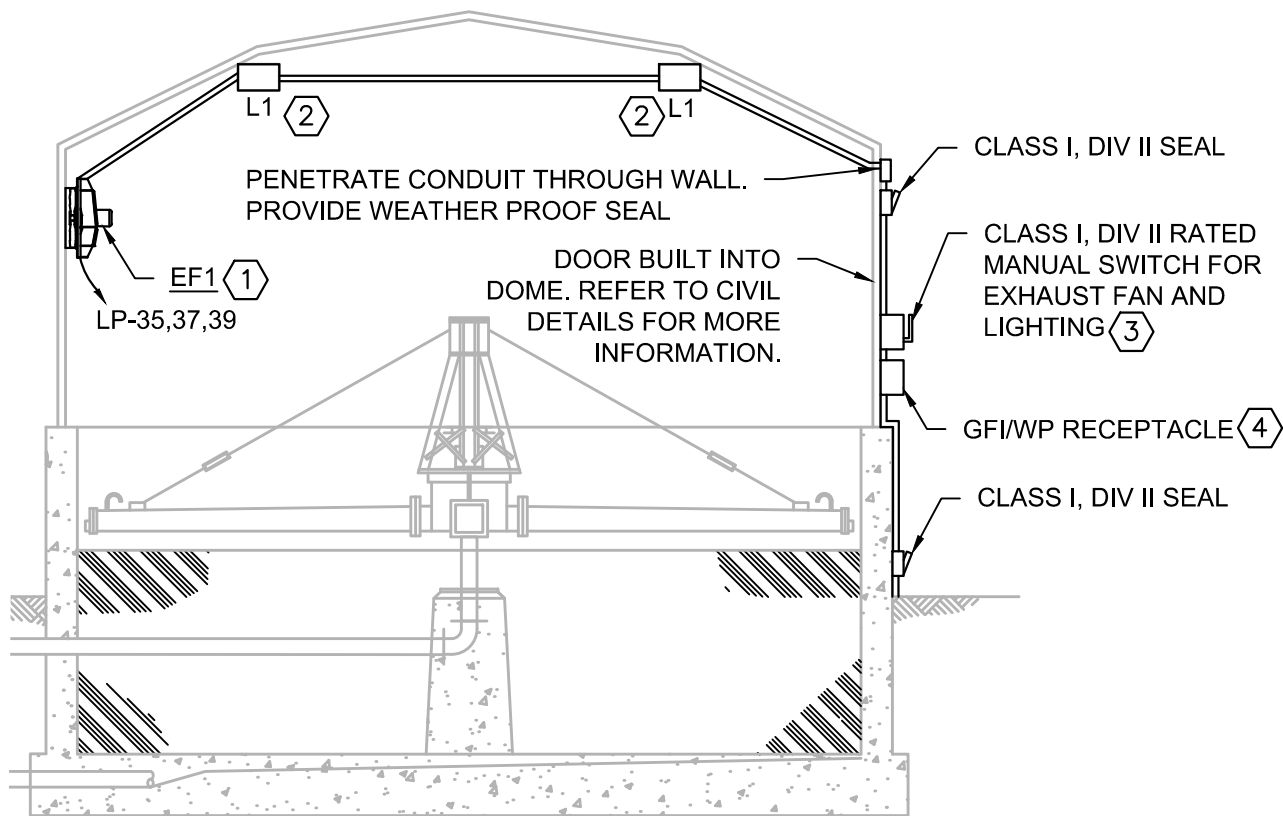
CONTRACT NUMBER:
TAS 26-28A

LOCATION OF PROJECT
MP 310.00 EASTBOUND
PORT BYRON SERVICE AREA

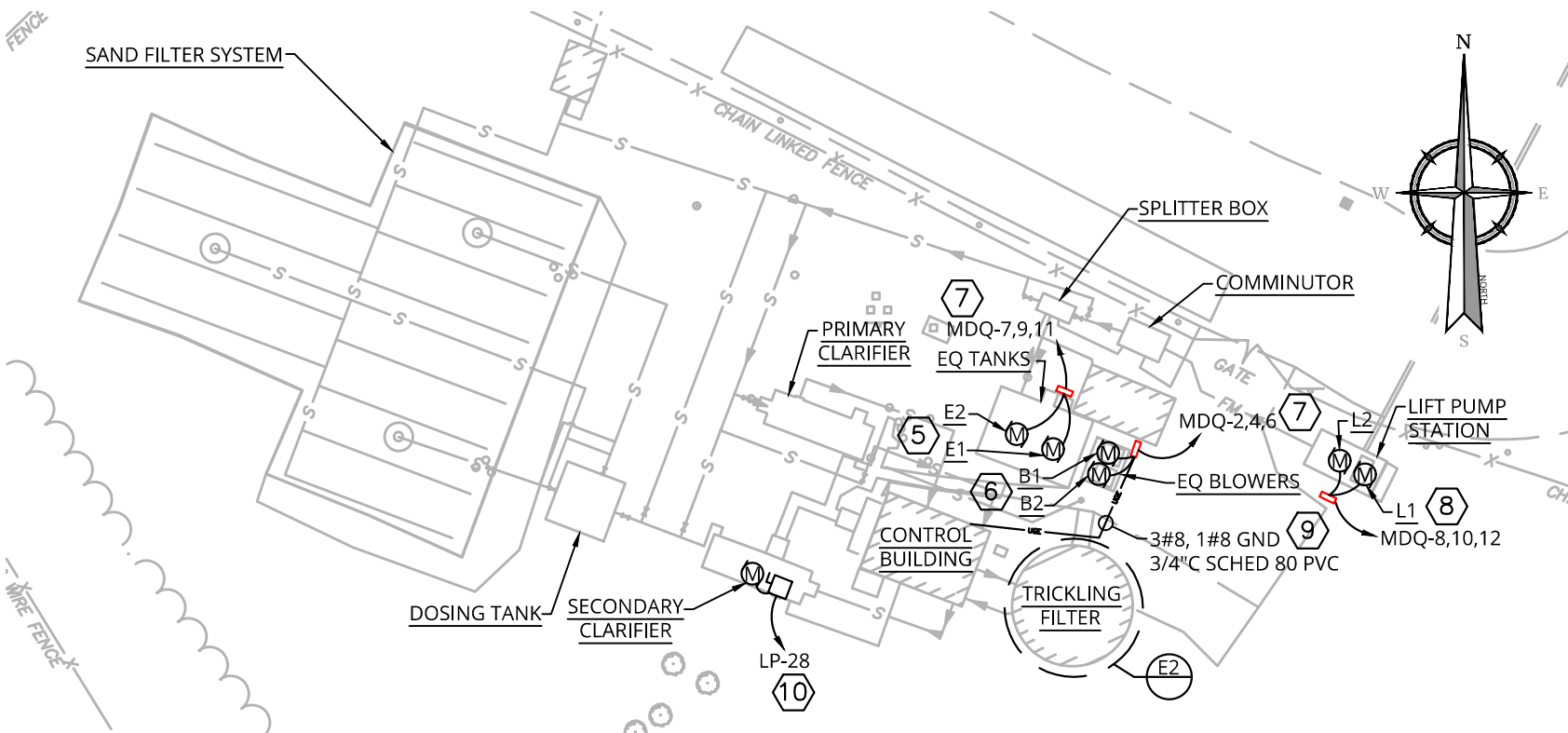
DATE:
08/14/2026

TITLE OF DRAWING
ELECTRICAL LEGEND

DRAWING NUMBER:
E-1



TRICKLER FILTER IMPROVEMENT PLAN
SCALE NTS



ELECTRICAL SITE PROPOSED IMPROVEMENT PLAN
SCALE 1"=40'

ELECTRICAL KEYNOTES:

- EXISTING EXHAUST FAN TO BE REMOVED. PROVIDE CONDUIT AND WIRE FOR NEW EXHAUST FAN. BRANCH CIRCUIT WIRING AND CONDUIT TO BE ROUTED INSIDE OF TRICKLER STRUCTURE. PROVIDE PENETRATION AND CLASS 1 DIV 2 SEAL THROUGH ROOF AS REQUIRED. EXISTING MANUAL MOTOR SWITCH, WITH LED INDICATION, INSIDE CONTROL HOUSE TO REMAIN AND SERVE NEW EXHAUST FAN.
- LIGHTING INSIDE TRICKLING FILTER SHALL BE REPLACED. PROVIDE NEW CONDUIT AND WIRING RATED CLASS I, DIV I ENVIRONMENTS INSIDE TRICKLING FILTER TO EXTEND POWER TO LIGHT FIXTURES. REFER TO LUMINAIRE SCHEDULE ON E-4.
- EXISTING DISCONNECT SWITCH FOR EXHAUST FAN AND LIGHTS TO BE REPLACED. PROVIDE NEMA 4X HOUSING FOR DISCONNECT SWITCH. PROVIDE EXPLOSION PROOF FITTINGS TO PENETRATE STRUCTURE.
- EXISTING WP/GFI RECEPTACLE TO BE REPLACED. PROVIDE WEATHER PROOF ENCLOSURE AND GFI RECEPTACLE. REUSE BRANCH CIRCUIT WIRING AND CONDUIT, EXTEND AS NEEDED.
- EXISTING EQUALIZATION PUMPS TO BE REPLACED IN KIND. PROVIDE ELECTRICAL CONNECTION TO NEW PUMPS. REUSE EXISTING WIRING AND CONDUIT, EXTEND AS NEEDED. REFER TO SHEET E4 FOR MORE INFORMATION. COORDINATE WITH CIVIL DRAWINGS ON EXACT LOCATION OF NEW FLOAT SWITCHES.
- EXISTING BLOWERS TO BE REPLACED. PROVIDE ELECTRICAL CONNECTION TO BLOWERS. PROVIDE BRANCH CIRCUIT WIRING AND CONDUIT AS SHOWN. REFER TO SHEET E4 FOR MORE INFORMATION.
- CONTROL PANEL TO BE REMOVED AND REPLACED WITH PUMP VENDOR PROVIDED CONTROL PANEL. POWER TO EQUIPMENT SHALL BE WIRED THROUGH NEW CONTROL PANEL. CALL SERVICE AUTO DIALER SHALL BE BUILT IN BY MANUFACTURER, HARD WIRED PHONE CABLE BACKUP CONNECTION ONLY REQUIRED IF SPECIFIED BY LOCAL FIRE MARSHALL. REFER TO SPECIFICATIONS. ALL MONITORING SYSTEMS AND FIELD DEVICES SHALL REMAIN. MONITORING SYSTEMS SHALL BE INTEGRATED WITH NEW CONTROL PANEL.
- PROVIDE ELECTRICAL CONNECTION TO NEW INFLUENT PUMPS. PROVIDE BRANCH CIRCUIT WIRING AND CONDUIT. CONTROL PANEL TO BE REMOVED AND REPLACED WITH PUMP VENDOR PROVIDED CONTROL PANEL. CALL SERVICE AUTO DIALER SHALL BE BUILT IN BY MANUFACTURER, HARD WIRED PHONE CABLE BACKUP CONNECTION ONLY REQUIRED IF SPECIFIED BY LOCAL FIRE MARSHALL. REFER TO SPECIFICATIONS. ALL MONITORING SYSTEMS AND FIELD DEVICES SHALL REMAIN. MONITORING SYSTEMS SHALL BE INTEGRATED WITH NEW CONTROL PANEL. REFER TO SHEET E4 FOR MORE INFORMATION.
- DISCONNECT AND REMOVE BRANCH CIRCUIT WIRING AND CONDUIT FOR BLOWERS BACK TO CONTROL HOUSE. PROVIDE BRANCH CIRCUIT WIRING AND CONDUIT ALONG EXISTING PATH.
- EXISTING SECONDARY CHAIN DRIVE TO BE REPLACED. PROVIDE ELECTRICAL CONNECTION TO CHAIN DRIVE. EXISTING DISCONNECT SWITCH TO BE REPLACED. REUSE EXISTING BRANCH CIRCUIT WIRING AND CONDUIT, EXTEND AS NEEDED. REFER TO SHEET E4 FOR MORE INFORMATION.

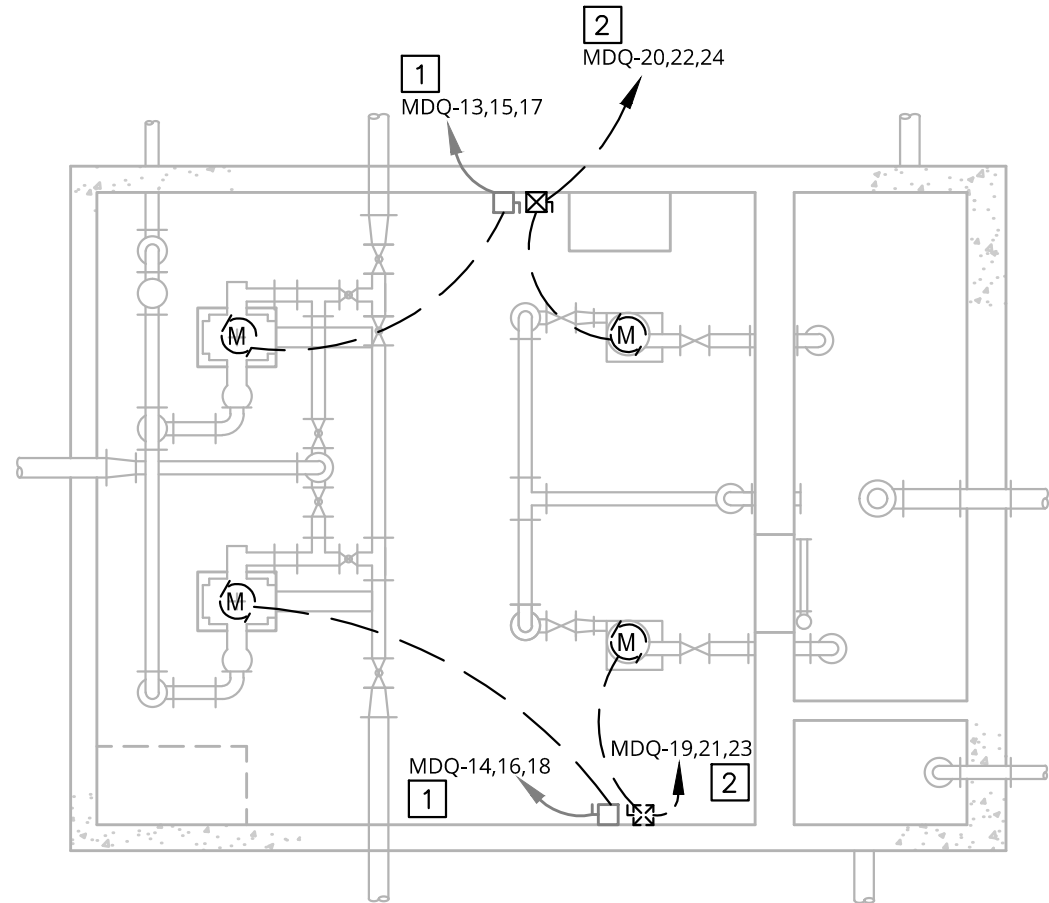
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING ELECTRICAL SITE PLAN	DRAWING NUMBER: E-2



CONTROL BUILDING BASMENT PROPOSED DEMOLITION PLAN

SCALE: 1"=5'



SCALE : 1" = 5'

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

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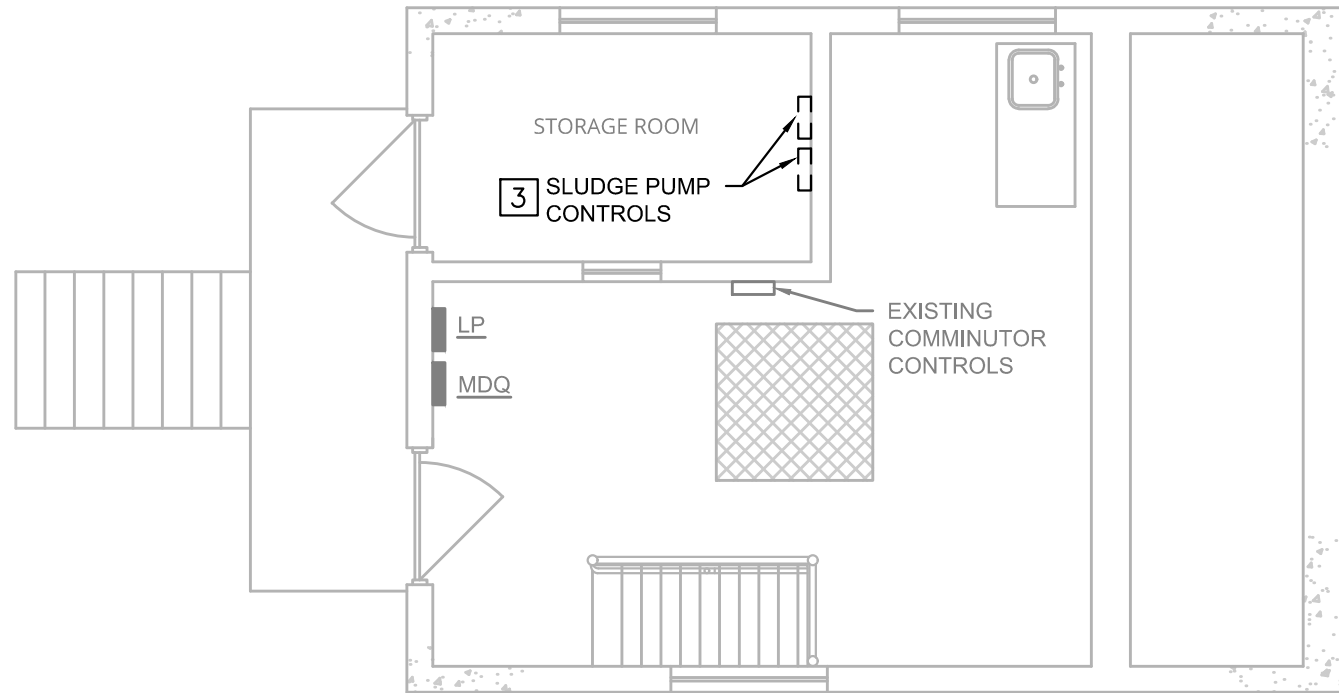
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING ELECTRICAL DEMOLITION PLAN	DRAWING NUMBER: ED-1

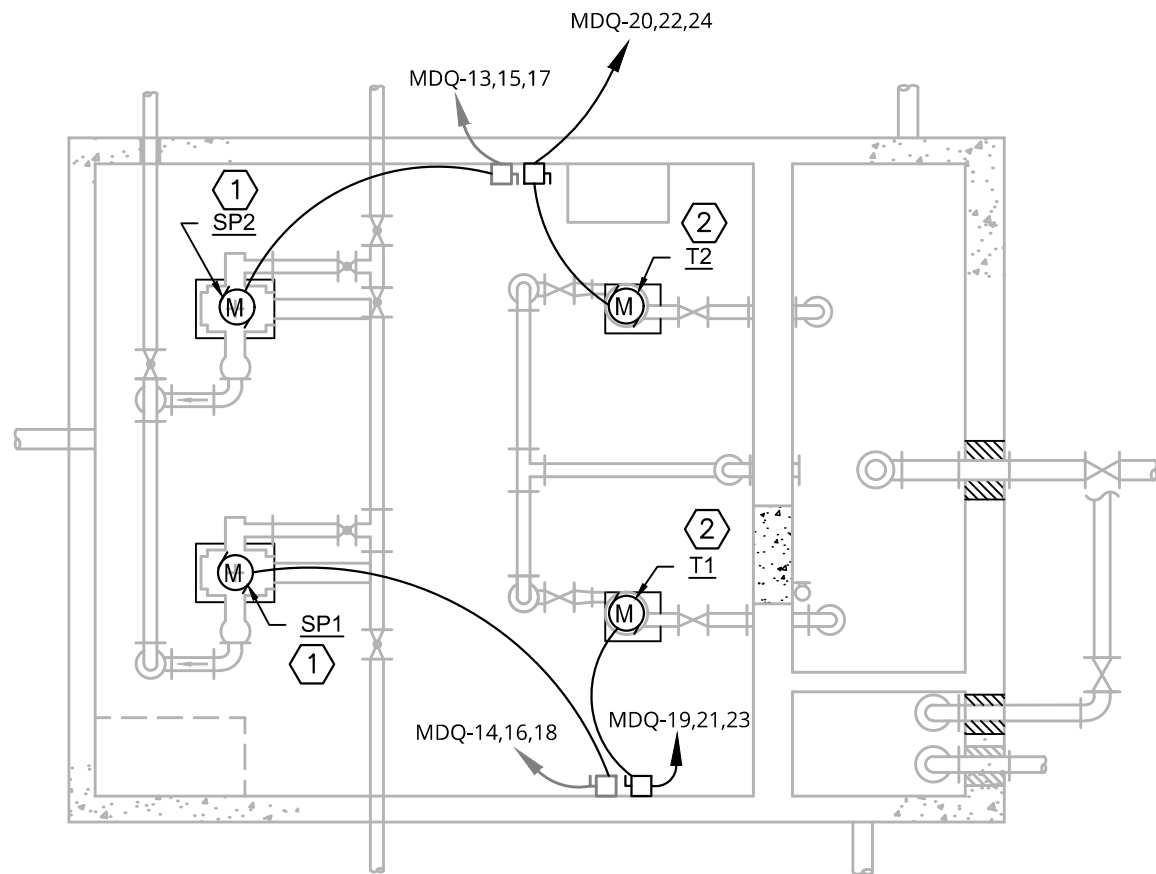
CONTROL BUILDING FIRST FLOOR PROPOSED DEMOLITION PLAN

SCALE: 1"=5'



☒ ELECTRICAL KEYNOTES:

- EXISTING SLUDGE PUMP TO BE REMOVED. RETAIN BRANCH CIRCUIT CONDUIT, WIRE, AND DISCONNECT SWITCH FOR REUSE. DISCONNECT SWITCH TO REMAIN IN SAME LOCATION.
- EXISTING TRICKLER FEED PUMP TO BE REMOVED. RETAIN BRANCH CIRCUIT CONDUIT AND WIRING FOR REUSE. DISCONNECT AND REMOVE COMBINATION STARTER AND RETURN TO OWNER.
- EXISTING SLUDGE PUMP CONTROLS TO BE REMOVED. RETAIN CIRCUIT CONDUIT AND WIRING FOR REUSE. RETURN CONTROL CABINETS TO OWNER.



CONTROL BUILDING BASMENT PROPOSED IMPROVEMENTS PLAN

SCALE: 1"=5'



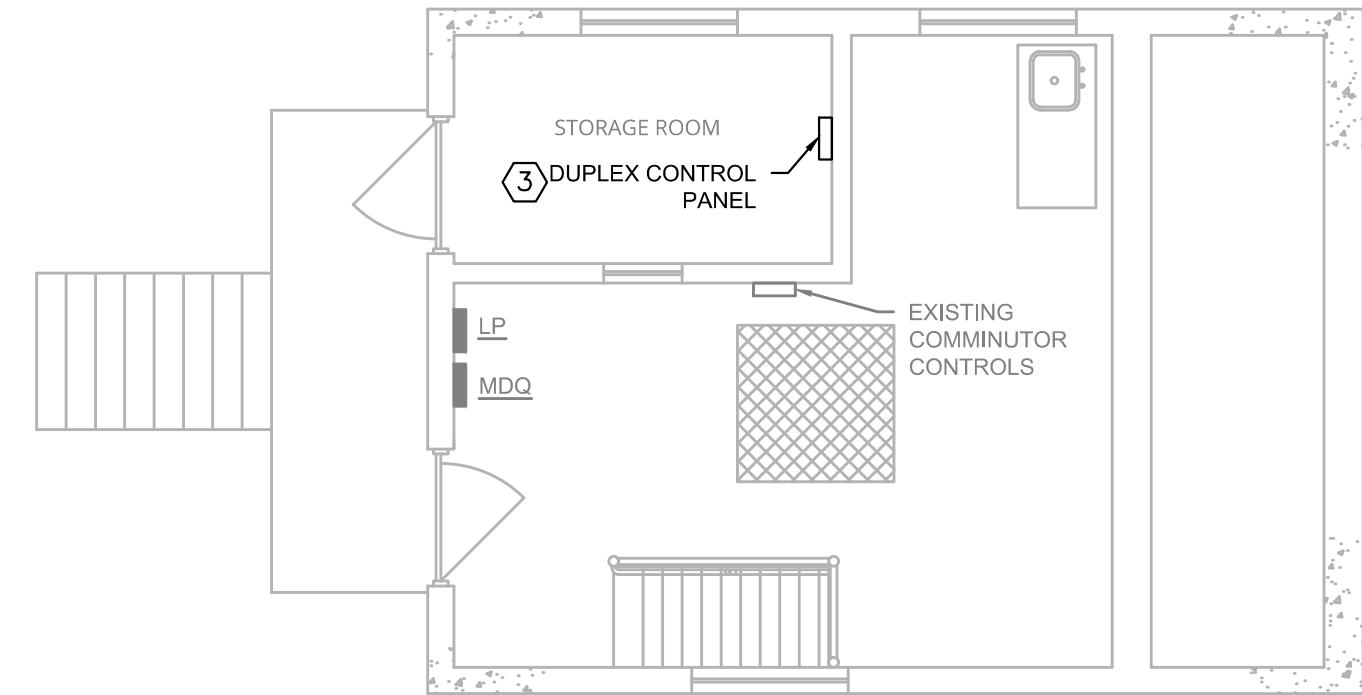
SCALE : 1" = 5'

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

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CONTROL BUILDING FIRST FLOOR PROPOSED IMPROVEMENTS PLAN

SCALE: 1"=5'

ELECTRICAL KEYNOTES:

1. PROVIDE ELECTRICAL CONNECTION TO NEW SLUDGE PUMP. REUSE EXISTING BRANCH CIRCUIT CONDUIT, WIRE, DISCONNECT SWITCH. PROVIDE OVERLOADS SPECIFIC TO MOTOR FULL LOAD CURRENT. SLUDGE PUMPS WILL BE INTEGRATED WITH NEW PUMPS AND CONTROLLED BY NEW DUPLEX PANEL.
2. PROVIDE ELECTRICAL CONNECTION TO NEW TRICKER FILTER PUMP. REUSE EXISTING BRANCH CIRCUIT CONDUIT AND WIRING DISCONNECTED DURING DEMOLITION, EXTEND IF NEEDED. PROVIDE OVERLOADS SPECIFIC TO MOTOR FULL LOAD CURRENT. TRICKLER PUMPS WILL BE INTEGRATED WITH NEW PUMPS AND CONTROLLED BY NEW DUPLEX PANEL.
3. PROVIDE ELECTRICAL CONNECTION TO NEW DUPLEX CONTROL PANEL PROVIDED BY PUMP VENDOR. POWER TO TRICKLER FEED PUMPS AND SLUDGE PUMPS SHALL BE WIRED THROUGH NEW CONTROL PANEL. CALL SERVICE AUTO DIALER SHALL BE BUILT IN BY MANUFACTURER, HARD WIRED PHONE CABLE BACKUP CONNECTION ONLY REQUIRED IF SPECIFIED BY LOCAL FIRE MARSHALL. REFER TO SPECIFICATIONS. ALL MONITORING SYSTEMS AND FIELD DEVICES LOCATED ON BASEMENT AND FIRST FLOOR SHALL REMAIN. MONITORING SYSTEMS SHALL BE INTEGRATED WITH NEW DUPLEX CONTROL PANEL. REUSE EXISTING CONDUIT AND WIRING WHERE POSSIBLE.

REVISIONS					TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
DATE	DESCRIPTION	BY	SYM.			
					LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
					TITLE OF DRAWING ELECTRICAL POWER FLOOR PLAN	DRAWING NUMBER: E-3

PANEL 'MDQ'														
VOLTAGE: 120/208V								LOCATION: CONTROL BUILDING						
PHASE: 3								FED FROM:						
WIRE: 4								UL LISTED EQUIPMENT SHORT CIRCUIT RATING: 10KAIC						
MAIN BUS AMPS: 150								MAXIMUM AVAILABLE SHORT CIRCUIT CURRENT:						
MAIN CIRCUIT BREAKER: 150								PHASE CONDUCTOR:						
MOUNTING: SURFACE								NEUTRAL CONDUCTOR:						
FEED: TOP								ELECTRICAL GROUND CONDUCTOR:						
SUB FEED LUGS: NO														
LOAD DESCRIPTION & LOCATION	PHASE AMPS			BREAKER					BREAKER		PHASE AMPS			LOAD DESCRIPTION & LOCATION
	PH. A	PH. B	PH. C	POLES	AMPS	CKT.	PHASE	CKT.	AMPS	POLES	PH. A	PH. B	PH. C	
ON				3	20	1	A	2			25.0			EQUALIZATION BLOWERS
						3	B	4	50	3		25.0		
						5	C	6					25.0	
EQUALIZATION PUMPS	7.8			3	20	7	A	8			8.0			LIFT PUMP STATION
		7.8				9	B	10	20	3		8.0		
			7.8			11	C	12					8.0	
SLUDGE PUMP	9.6			3	20	13	A	14			6.8			SLUDGE PUMP
		9.6				15	B	16	15	3		6.8		
			9.6			17	C	18					6.8	
TRICKLING FILTER PUMP	8.0			3	20	19	A	20			8.0			TRICKLING FILTER PUMP
		8.0				21	B	22	20	3		8.0		
			8.0			23	C	24					8.0	
(BREAKER ON) UNKNOWN				3	20	25	A	26						DIGESTER MOTOR
						27	B	28	20	3				
						29	C	30						
EQUIPMENT ROOM HEATER				2	20	31	A	32	20	2				MAIN FLOOR HEATER
						33	B	34						
						35	C	36		1				
BASEMENT HEATER				2	20	37	A	38						SPACE
						39	B	40	100	3				
						41	C	42						
SPACE				1										PANEL LP
SPACE						41	C	42						
TOTAL AMPS		25.4	25.4	25.4							47.8	47.8	47.8	TOTAL AMPS
						PH. A	PH. B	PH. C	NOTES: SQUARE D TYPE NQOD PANEL					
TOTAL PHASE AMPS						73.20	73.20	73.20	PROVIDE CIRCUIT BREAKERS INDICATED TO FILL					
TOTAL PHASE KVA						8.78	8.78	8.78						
TOTAL 3-PHASE KVA						26.35								

PANEL 'LP'														
VOLTAGE: 120/208V										LOCATION: CONTROL BUILDING				
PHASE: 3										FED FROM:				
WIRE: 4										UL LISTED EQUIPMENT SHORT CIRCUIT RATING: 10KAIC				
MAIN BUS AMPS: 100										MAXIMUM AVAILABLE SHORT CIRCUIT CURRENT:				
MAIN CIRCUIT BREAKER: MLO										PHASE CONDUCTOR:				
MOUNTING: SURFACE										NEUTRAL CONDUCTOR:				
FEED: TOP										ELECTRICAL GROUND CONDUCTOR:				
SUB FEED LUGS: NO														
LOAD DESCRIPTION & LOCATION	PHASE AMPS			BREAKER					BREAKER		PHASE AMPS			LOAD DESCRIPTION & LOCATION
	PH. A	PH. B	PH. C	POLES	AMPS	CKT.	PHASE	CKT.	AMPS	POLES	PH. A	PH. B	PH. C	
MAIN FLOOR & OUTSIDE ENTR. LIGHTS				1	20	1	A	2	20	1				ALARM PANEL
HOT WATER HEATER				1	20	3	B	4	20	1				FLOW METER RECEIPT
BLDG EXHASUT FAN				1	20	5	C	6	20	1				PANEL OUTLET
BASEMENT RECEPT/WORK SHELF				1	20	7	A	8	20	1				PRIMARYY CLARIFIER CHAIN DRIVE
DIGESTER & PRI CLARIFIER RECEPT				1	20	9	B	10	20	1				SPARE
WORK BENCH RECEPT IN BATHROOM				1	20	11	C	12	20	1				SPARE
TRICKING FILTER RECEPT	3.0			1	20	13	A	14	20	1				WET WELL FLOAT CONTROL PROBES
SPARE		0.0		1	20	15	B	16	20	1				SUMP PUMP
(BREAKER ON) UNKNOWN				1	20	17	C	18	20	1				SITE LIGHTING
(BREAKER ON) UNKNOWN				1	20	19	A	20	20	1				OUTSIDE LIGHTING PUMPHOUSE
BATHROOM IN WALL RECEPT				1	20	21	B	22	20	1				EFFLUENT BLDG LIGHTS & RECEPTS
SPARE				1	20	23	C	24	20	1				SINK COUNTER WEST RECEPT
BASEMENT LIGHTS				1	20	25	A	26	20	1				SINK COUNTER EAST RECEPT
BASEMENT HEAT HANGING UNIT				2	30	27	B	28	20	1	1.0			SECONDARY CLARIFIER CHAIN DRIVE
						29	C	30	30	2				MAIN FLOOR HEAT HANGING UNIT
SPLIT UNIT AC				2	15	31	A	32						
						33	B	34	20	1				SPARE
			4.3			35	C	36	20	1				SPACE
TRICKLING FILTER EXHUAST FAN		4.3		3	20	37	A	38	20	1				SPACE
	4.3					39	B	40	20	1				SPACE
SPACE						41	C	42	20	1				SPACE
TOTAL AMPS	7.3	4.3	4.3								0.0	1.0	0.0	TOTAL AMPS
						PH. A	PH. B	PH. C	NOTES: SQUARE D TYPE NQOD PANEL PROVIDE CIRCUIT BREAKERS INDICATED TO FILL					
TOTAL PHASE AMPS						7.30	5.30	4.30						
TOTAL PHASE KVA						0.88	0.64	0.52						
TOTAL 3-PHASE KVA						2.03								

ELECTRICAL MECHANICAL EQUIPMENT CONNECTION SCHEDULE															
EQUIPMENT TAG	DESCRIPTION	LOAD			VOLTAGE	PHASE	CIRCUIT BREAKER	CONDUIT & WIRE	FUSED DISCONNECT SWITCH	NON-FUSED DISCONNECT SWITCH	MANUAL MOTOR STARTER	COMBINATION STARTER WITH H-O-A	VFD WITH INTEGRAL DISCONNECT	FULL VOLTAGE CONTACTOR	NOTES
		HP	AMPS	WATTS											
T1,T2	TRICKLING FILTER PUMP	2.7	8		208	3	20A / 3P	3#12, 1#12 GND IN 3/4" C.		30A/3P NEMA 4X					1
B1,B2	EQUALIZATION BLOWERS	7.5	25.3		208	3	50A / 3P	3#8, 1#8 GND IN 3/4" C.							1
E1	EQUALIZATION PUMP	2	7.8		208	3	20A / 3P	3#12, 1#12 GND IN 3/4" C.							1
E2	EQUALIZATION PUMP	2	7.8		208	3	20A / 3P	3#12, 1#12 GND IN 3/4" C.							1
L1,L2	LIFT STATION PUMP	2.7	8		208	1	20A / 3P	2#12, 1#12 GND IN 3/4" C.							1
C1	CHAIN DRIVE	0.16	1		208	1	20A /1P	2#12, 1#12 GND IN 3/4" C.		30A/1P NEMA 4X					
EF1	TRICKLER EXHUAST FAN	0.75	4.3		208	3	20A / 3P	3#12, 1#12 GND IN 3/4" C.		30A/3P NEMA 4X					
SP1	SLUDGE PUMP	3	9.6		208	3	20A / 3P	3#12, 1#12 GND IN 3/4" C.							1
SP2	SLUDGE PUMP	2	6.8		208	3	20A / 3P	3#12, 1#12 GND IN 3/4" C.							1

- NOTES:
1. START/STOP CONTROLS AND LEAD/LAG CONTROLS WRIED TO DUPLEX CONTROL PANEL. EC SHALL COORDINATE PROVIDING INTERCONNECTED CONDUIT AND WIRING WITH CONTROL PANEL PROVIDER.

LUMINAIRE SCHEDULE									
TYPE	LAMP	MANUFACTURER	MODEL NUMBER	BALLAST/DRIVER	VOLTAGE	MOUNTING	INPUT WATTAGE	DESCRIPTION	NOTES
L1	LED	SOLAS RAY LIGHTING	HJCR1L-040-40-U-120-HJTB	N/A	UNV	SURFACE	40W	LED MAINTENANCE LIGHT	1

- NOTES:
1. LIGHT FIXTURE SHALL BE RATED FOR CLASS I, DIV I ENVIROMENTS.

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DESIGNED BY: MNS

DESIGN SUPERVISOR: JBA

LEGEND:

- ▽CD

⊗

— PROVIDE WALL MOUNTED HORN/STROBE WITH CANDELA RATING AS NOTED.
- F

— PROVIDE MANUAL PULL STATION.
- FACP

— FIRE ALARM CONTROL PANEL.
- FAC

— FIRE ALARM CELLULAR DIALER.
- ⬡S

— PROVIDE PHOTOELECTRIC SPOT–TYPE SMOKE DETECTOR.
- — UNDERGROUND FIRE ALARM CONDUIT.
- FACP

— FIRE ALARM CONTROL PANEL.
- CD

— CANDELA.

SCOPE OF WORK:

1. PROVIDE AND INSTALL A WORKING FIRE ALARM SYSTEM IN THE SCOPE OF WORK AREA.

1.1. THE SYSTEM SHALL BE COMPRISED OF DEVICES AND APPLIANCES AS INDICATED ON THIS SET OF DRAWINGS.

1.2. THE SYSTEM SHALL BE INSTALLED AND PROGRAMMED SO THAT UPON THE ACTUATION OF AN ALARM, TROUBLE OR SUPERVISORY SIGNAL AT THE FIRE ALARM CONTROL UNIT, A CORRESPONDING SIGNAL SHALL BE REPORTED TO A LISTED CENTRAL STATION MONITORING SERVICE IN ACCORDANCE WITH NFPA 72.

1.3. THE LOCATIONS OF FIRE ALARM DEVICES AND APPLIANCES SHALL BE LOCATED AS SHOWN IN THIS SET OF PLANS. DEVIATIONS FROM THIS LAYOUT SHALL NOT BE ALLOWED WITHOUT WRITTEN CONSENT FROM THE ARCHITECT AND ENGINEER.
2. THE FIRE ALARM INSTALLATION CONTRACTOR AND VENDOR SHALL BE LICENSED BY THE NEW YORK DEPARTMENT OF STATE FOR FIRE ALARM SYSTEMS INSTALLATION.
3. THE SYSTEM SHALL BE TESTED FOR ACCEPTANCE IN ACCORDANCE WITH NFPA 72.
4. THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN COMPLIANCE WITH NFPA 72. FINAL LOCATION OF AUDIBLE NOTIFICATION APPLIANCES SHALL BE SHOWN ON THE CONTRACTOR’S SHOP DRAWINGS AND SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND THE OWNER’S REPRESENTATIVE.
5. CONDUCT A THOROUGH EXAMINATION OF THE PREMISES PRIOR TO PREPARING A PROPOSAL. ANY CHANGES TO THE DESIGN MADE NECESSARY BY FIELD CONDITIONS SHALL BE CONVEYED TO THE ENGINEER PRIOR TO PREPARING A PROPOSAL. NO ADDITIONAL COSTS BEYOND THE PROPOSAL PRICE WILL BE ACCEPTED FOR FIELD CONDITIONS THAT COULD HAVE BEEN DETERMINED BY AN INSPECTION OF THE PREMISES.
6. PROVIDE RED–LINE DRAWINGS AND/OR AS–BUILT DRAWINGS. DRAWINGS SHALL BE AVAILABLE IN PDF AND AUTOCAD FORMATS.
7. THE BASE BUILDING "CONTRACT DRAWINGS" INCLUDING ALL RESPECTIVE ADDENDA & BULLETINS SHALL FORM A PART OF THIS WORK & ALL WORK SHALL BE SUBJECT TO RESPECTIVE PROVISIONS THEREOF.

APPLICABLE CODES AND STANDARDS:

SYSTEMS SHALL BE INSTALLED SO THAT THEY ARE COMPLIANT WITH THE CODES AND STANDARDS BELOW. THESE CODES AND STANDARDS SHALL APPLY TO THE CONTRACT AS THOUGH THEY WERE WRITTEN ON THIS DRAWING IN THEIR ENTIRETY.

1. BCNYS, BUILDING CODE OF NEW YORK STATE, 2025
2. FCNYS, FIRE CODE OF NEW YORK STATE, 2025
3. EBCNYS, EXISTING BUILDING CODE OF NEW YORK STATE, 2025
4. NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE, 2025
5. NFPA 70, NATIONAL ELECTRIC CODE, 2026

CENTRAL STATION SERVICE NOTES:

1. ESTABLISH THE MONITORING SERVICE OF THE PROPOSED FIRE ALARM SYSTEM BY A LISTED CENTRAL STATION IN ACCORDANCE WITH NFPA 72.
2. CONSPICUOUSLY INDICATE THAT THE ALARM SYSTEM PROVIDING SERVICE AT A PROTECTED PREMISES COMPLIES WITH ALL THE REQUIREMENTS OF THIS CODE THROUGH THE USE OF A SYSTEMATIC FOLLOW–UP PROGRAM UNDER THE CONTROL OF THE ORGANIZATION THAT HAS LISTED THE PRIME CONTRACTOR. DOCUMENTATION INDICATING CODE COMPLIANCE OF THE ALARM SYSTEM SHALL BE ISSUED BY THE ORGANIZATION THAT HAS LISTED THE PRIME CONTRACTOR. THE DOCUMENTATION SHALL BE PHYSICALLY POSTED WITHIN 3 FT OF THE CONTROL UNIT, AND COPIES OF THE DOCUMENTATION SHALL BE MADE AVAILABLE TO THE AUTHORITY HAVING JURISDICTION AND ENGINEER UPON REQUEST.
3. THE CENTRAL STATION SERVICE SHALL BE PROVIDED UNDER CONTRACT TO THE OWNER.

FIRE ALARM WORKING DRAWINGS AND SUBMITTALS:

1. PROVIDE PRODUCT SUBMITTALS FOR REVIEW AND APPROVAL PRIOR TO SYSTEM INSTALLATION. PRODUCT SUBMITTALS SHALL INCLUDE MANUFACTURERS, MODEL NUMBERS AND LISTING INFORMATION FOR EQUIPMENT, DEVICES AND MATERIALS.
2. PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR REVIEW AND APPROVAL IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS PRIOR TO SYSTEM INSTALLATION. THE SHOP DRAWINGS AND CALCULATIONS SHALL, AT A MINIMUM, INCLUDE:

2.1. A FLOOR PLAN WHICH INCLUDES THE FOLLOWING:

2.1.1. INDICATES THE USE OF ALL ROOMS.

2.1.2. LOCATIONS OF ALARM–INITIATING AND NOTIFICATION APPLIANCES.

2.1.3. ALARM CONTROL AND TROUBLE SIGNALING EQUIPMENT.

2.1.4. POWER CONNECTION.

2.1.5. CONDUCTOR TYPES AND SIZES.

2.1.6. DETAILS OF CEILING HEIGHT AND CONSTRUCTION.

2.2. THE INTERFACE OF SAFETY FIRE CONTROL FUNCTIONS, SUCH AS HVAC SHUTDOWN AND/OR CLOSING OF DAMPERS.

2.3. A DETAILED ONE–LINE DIAGRAM OF THE FIRE ALARM SYSTEM COMPONENTS AND WIRING.

2.4. DOCUMENTATION INDICATING APPLIANCES AND INDICATING INTELLIGIBILITY (WHERE REQUIRED) OF AUDIBLE NOTIFICATION (STI OR CIS) AND/OR MINIMUM SOUND PRESSURE AUDIBILITY LEVEL IS COMPLIANT WITH NFPA 72 FOR ALL AREAS.

2.5. BATTERY CALCULATIONS.

2.6. VOLTAGE DROP CALCULATIONS.
3. PROVIDE CONTRACT CLOSEOUT DOCUMENTS FOR APPROVAL BY THE ENGINEER, [OWNER/DIRECTOR’S REPRESENTATIVE]. THE CONTRACT CLOSEOUT DOCUMENTS SHALL INCLUDE, BUT ARE NOT LIMITED TO:

3.1. SYSTEM RECORD OF COMPLETION IN ACCORDANCE WITH NFPA 72.

3.2. AN OWNER’S MANUAL AND MANUFACTURER’S PUBLISHED INSTRUCTIONS IN ACCORDANCE WITH NFPA 72.

3.3. RECORD (AS–BUILT) DRAWINGS IN ACCORDANCE WITH NFPA 72.

3.4. PROVIDE ADDITIONAL INFORMATION AND/OR CALCULATIONS AS REQUESTED DURING THE SUBMITTAL REVIEW AND APPROVAL PROCESS.

3.5. SUBMITTALS AND SHOP DRAWINGS SUBMISSIONS REQUIRING MORE THAN TWO REVIEW CYCLES DUE TO CONTRACTOR’S OR SUB CONTRACTOR’S OWN ERRORS, OMISSIONS OR INCOMPLETENESS CAUSES ADDITIONAL EFFORTS REQUIRED BY ENGINEER (RAN FIRE PROTECTION ENGINEERING P.C.). THESE ADDITIONAL EFFORTS ARE BACK–CHARGEABLE TO AND AT THE SOLE COST OF THE CONTRACTOR AND/OR SUB CONTRACTOR WHO SHALL PAY RAN’S STANDARD HOURLY RATES AS ADDITIONAL SERVICES UNDER RAN’S CONTRACT WITH OWNER/CLIENT.



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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING FIRE ALARM NOTES (1)	DRAWING NUMBER: FA001

FIRE ALARM SYSTEM NOTES:

1. SECONDARY POWER SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72 TO PROVIDE POWER FOR A MINIMUM OF 24 HOURS STANDBY AND 5 MINUTES ALARM.
2. INSTALLATION WORK SHALL NOT PROCEED UNTIL SUBMITTALS HAVE BEEN RECEIVED, PROCESSED & APPROVED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECTS SPECIFICATIONS.
3. CONSULT THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE SYSTEM DESIGN, INTENDED PERFORMANCE, PRODUCTS AND INSTALLATION.
4. DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER PRIOR TO BID.

4.1. WHERE DISCREPANCIES ARISE BETWEEN THE CONTRACT DRAWINGS, CONTRACT SPECIFICATIONS AND APPLICABLE CODES AND STANDARDS, THE MOST STRINGENT REQUIREMENTS SHALL APPLY TO THE CONTRACT.
5. A WORKING SET OF DOCUMENTS SHALL BE MAINTAINED & USED AS A DRAFT OF THE AS-BUILT DRAWINGS. THIS DRAFT SET SHALL BE AVAILABLE FOR INSPECTION OR REVIEW BY OWNER'S REPRESENTATIVES. THE DRAFT SET OF DOCUMENTS SHALL BE MAINTAINED ON A 48-HOUR BASIS: AS EACH PIECE OF EQUIPMENT IS INSTALLED, THE LOCATION SHALL BE ACCURATELY RECORDED ON THE DRAFT AS-BUILT DOCUMENTS WITHIN 48 HOURS; AS EACH CIRCUIT IS INSTALLED & CONNECTED TO EQUIPMENT, THE ROUTING & CONNECTION ORDER SHALL BE RECORDED ON THE DRAFT AS-BUILT DOCUMENTS WITHIN 48 HOURS. CONSULT THE PROJECT SPECIFICATIONS FOR COMPLETE INFORMATION ON THE REQUIREMENTS FOR AS-BUILT DOCUMENTATION. DOCUMENTS SHALL BE TURNED OVER TO ENGINEER AT COMPLETION OF PROJECT.
4. ALL INITIATING DEVICES, CONTROL MODULES, MONITOR MODULES, NOTIFICATION APPLIANCES, & ALL OTHER EQUIPMENT SHALL BE INSTALLED ON STANDARD ELECTRICAL BACK BOXES THAT ARE SECURED TO THE BUILDING STRUCTURE.
5. WHERE EQUIPMENT MUST BE INSTALLED ON SUSPENDED CEILINGS OR BETWEEN BUILDING STRUCTURAL COMPONENTS, ADEQUATE FIXTURE BARS OR OTHER SUPPORT SHALL BE PROVIDED.
6. CABINET ASSEMBLY & MOUNTING SHALL BE SUCH THAT ALL SWITCHES & OPERATOR CONTROLS ARE NO LESS THAN 36 INCHES & NO MORE THAN 72 INCHES ABOVE THE FINISHED FLOOR.
7. CONTROL UNITS SHALL BE INSTALLED SO THAT WORKING CLEARANCES ARE MAINTAINED AROUND THE UNITS IN ACCORDANCE WITH NFPA 70.
8. ALL CABLES OR CONDUITS SHALL ENTER CONTROL UNITS OR EQUIPMENT IN LOCATIONS PERMITTED BY EQUIPMENT MANUFACTURER.
9. AUDIBLE NOTIFICATION APPLIANCES, VISIBLE NOTIFICATION APPLIANCES, & COMBINATION NOTIFICATION APPLIANCES SHALL HAVE THE SAME STYLE BACKBOX & SHALL BE CAPABLE OF BEING INTERCHANGED.
10. ALL CONNECTIONS TO CONTROLS, DEVICES, & APPLIANCES SHALL BE MADE TO TERMINALS OR PIGTAILS THAT ARE AN INTEGRAL PART OF THE CONTROL, DEVICE, OR APPLIANCE. FIELD MANUFACTURED PIGTAIL LEADS SHALL NOT BE ALLOWED.
11. ALL CONDUCTOR JUNCTIONS SHALL BE MADE ON SCREW-TYPE TERMINAL BLOCKS. TERMINAL CABINETS WITH HINGED, LOCKABLE RED COVERS SHALL BE PROVIDED AT ALL FIRE ALARM & REMOTE CONTROL CIRCUIT JUNCTION POINTS WHERE MORE THAN EIGHT CONNECTIONS MUST BE MADE. JUNCTION BOXES WITH TERMINAL STRIPS MAY BE USED WHERE THE NUMBER OF CONNECTIONS IS EIGHT OR LESS. ALL TERMINALS WITHIN A TERMINAL CABINET OR JUNCTION BOX SHALL BE PROPERLY LABELED & SHALL BE ACCURATELY SHOWN ON THE AS-BUILT DRAWINGS.
15. FIRE ALARM SYSTEM WIRING SHALL NOT BE PERMITTED TO BE INSTALLED IN THE SAME CABLE, CONDUIT, OR RACEWAY AS POWER OR LIGHTING CIRCUITS EXCEPT AS ALLOWED FOR FIRE ALARM SYSTEMS IN NFPA 70.
16. AC & DC WIRING SHALL NOT BE PERMITTED IN THE SAME CABLE, CONDUIT, OR RACEWAY.
17. ALL WIRING WITHIN CONTROL EQUIPMENT SHALL BE INSTALLED SO THAT THE WIRING & THE

- EQUIPMENT ARE ACCESSIBLE. WIRING SHALL BE INSTALLED SO THAT THE EQUIPMENT CAN BE SERVICED OR REMOVED WITHOUT DISCONNECTING OR MOVING UNRELATED CIRCUITS.
18. THE COVERS OF ALL JUNCTION BOXES SHALL BE PAINTED RED UNLESS OTHERWISE NOTED.
19. PENETRATIONS MADE IN ANY FIRE- OR SMOKE- RATED BARRIER, WALL, OR PARTITION, SUCH AS STAIRWELLS, SHALL BE FILLED & PATCHED WITH A MATERIAL THAT PROVIDES A FIRE RATING EQUAL TO OR GREATER THAN THE PENETRATED ASSEMBLY. PROPRIETARY FILLER MATERIALS MUST BE APPROVED OR LISTED AS FIRE-RATED FILLER MATERIALS. PRIOR TO USING SUCH MATERIALS, SUBMIT COMPLETE MANUFACTURER'S INFORMATION FOR APPROVAL.
20. DETERMINE BEST LOCATION FOR ROUTING/RE-ROUTING ALL ASSOCIATED RACEWAYS. RACEWAY ROUTING SHOWN SHALL BE USED & ANY ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, &/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED. VERIFY EXISTING STRUCTURAL, MECHANICAL, ELECTRICAL INSTALLATIONS & AVOID ANY/ALL OBSTRUCTIONS OR INTERFERENCE'S WITH FIRE ALARM RACEWAY ROUTING. RACEWAYS SHALL NOT BE RUN EXPOSED.
21. THE BASE BUILDING "CONTRACT DRAWINGS" INCLUDING ALL RESPECTIVE ADDENDA & BULLETINS SHALL FORM A PART OF THIS WORK & ALL WORK SHALL BE SUBJECT TO RESPECTIVE PROVISIONS THEREOF.
22. ALL FIRE PROTECTION SYSTEMS ARE SHOWN SCHEMATICALLY. IT IS NOT THE INTENT OF THESE PLANS TO SHOW ALL LISTED COMPONENTS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING SYSTEM PER MANUFACTURER REQUIREMENTS. ALL SYSTEM COMPONENTS SHALL BE FROM A SINGLE MANUFACTURER.
23. THE FIRE ALARM LAYOUT SHOWN ON THE CONTRACT DOCUMENTS ARE TO DEFINE THE DESIGN INTENT FOR COMPETITIVE BIDDING & FOR PRELIMINARY SUBMISSION TO THE AUTHORITIES HAVING JURISDICTION. THE WORK OF THE CONTRACT INCLUDES SHOP DRAWINGS FOR THE ACTUAL INSTALLATION CONDITIONS. THE SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER.
24. EGRESS DOOR SWING MAY NOT BE AS SHOWN ON PLANS. LOCATE MANUAL PULL STATIONS ON DOORKNOB SIDE OF DOOR WITHIN 5 FT OF DOOR.
25. THE ACCEPTANCE TESTING OF THE FIRE ALARM SYSTEM SHALL BE INCLUDED IN THE CONTRACT. BEAR THE COST OF ANY FEES FROM THE FIRE DEPARTMENT & FOR ANY OTHER AUTHORITY HAVING JURISDICTION OF MANDATORY FIRE ALARM TESTING & COMMISSIONING.
26. PROVIDE PRIMARY & BATTERY BACKUP POWER & ALL ASSOCIATED WIRING TO ACCOMPLISH WORK.
27. FIRE ALARM SIGNALING SYSTEM MANUAL PULL STATIONS ARE TO BE PROVIDED NOT MORE THAN FIVE FEET AWAY FROM ALL FLOOR EXITS & MOUNTED 48" ABOVE THE FINISHED FLOOR.
28. FIRE ALARM SIGNALING SYSTEM NOTIFYING SPEAKERS SHALL BE WIRED TO THE LOWEST WATTAGE TAP WHILE MAINTAINING REQUIRED AUDIBILITY AND INTELLIGIBILITY LEVELS.
29. ALL DEVICES SHALL BE UL/FM LISTED FOR USE WITH THE FIRE ALARM SYSTEM.
30. FIRE ALARM SIGNALING SYSTEM NOTIFYING AUDIO STROBE COVERAGE IS PER NFPA 72 PUBLIC MODE, THE AMERICANS WITH DISABILITIES ACT (ADA), & FIRE CODE FOR SPACING, CANDELA & AUDIO ALARM AMPLITUDE.
31. WHEN THE FIRE ALARM SYSTEM IS ACTIVATED, ALL HORN STROBES SHALL OPERATE IN A SYNCHRONIZED MANNER. ALARM FOR BUILDING EVACUATION AS DESCRIBED PER APPLICABLE CODES & STANDARDS. ALL AUDIO/STROBES SHALL BE ADA APPROVED & SYNCHRONIZED. CANDELA RATING AS NOTED.
32. ALL DOOR HOLD OPEN DEVICES SHALL BE CONNECTED TO NEW FIRE ALARM SYSTEM.
33. ALL DUCT SMOKE DETECTORS, AND ANY DETECTOR INSTALLED WITHIN A CONCEALED SPACE OR INACCESSIBLE LOCATION, SHALL BE PROVIDED WITH A LISTED ALARM/SUPERVISORY INDICATOR WITH AN INTEGRAL RESET SWITCH IN AN ACCESSIBLE LOCATION.
34. PROVIDE SURGE SUPPRESSORS AT ALL LOCATIONS WHERE METALLIC FIRE ALARM CABLING ENTERS OR EXITS A BUILDING AND/OR FIRE ALARM CONTROL UNITS PER MANUFACTURER'S REQUIREMENTS.
35. FIRE ALARM CONTROL UNITS, POWER SUPPLY PANELS, AND OTHER EQUIPMENT SHALL BE PROVIDED WITH POWER CIRCUITS WHICH ARE DEDICATED TO FIRE ALARM EQUIPMENT. CIRCUIT BREAKERS SUPPLYING FIRE ALARM EQUIPMENT SHALL BE LABELED AND PROVIDED WITH MEASURES TO PREVENT INADVERTENT SHUTOFF OF FIRE ALARM EQUIPMENT.

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DATE	DESCRIPTION	BY	SYM.

 	TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
	LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
	TITLE OF DRAWING FIRE ALARM NOTES (2)	DRAWING NUMBER: FA002


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UNDERGROUND CIRCUIT
WITHIN CONDUIT



REBAR
AVI CBP#20)

WOODEN
POST

VAULT

CONCRETE PAD

BUILDING

UNKNOWN
STRUCTURE

CONCRETE
PAD

STEPS

ASPHA

GRAVEL

SIDEWALK
TIMBER WALL

BUILDING

BUILDING

RIP RAP

ELECTRIC

ALTERED ON:

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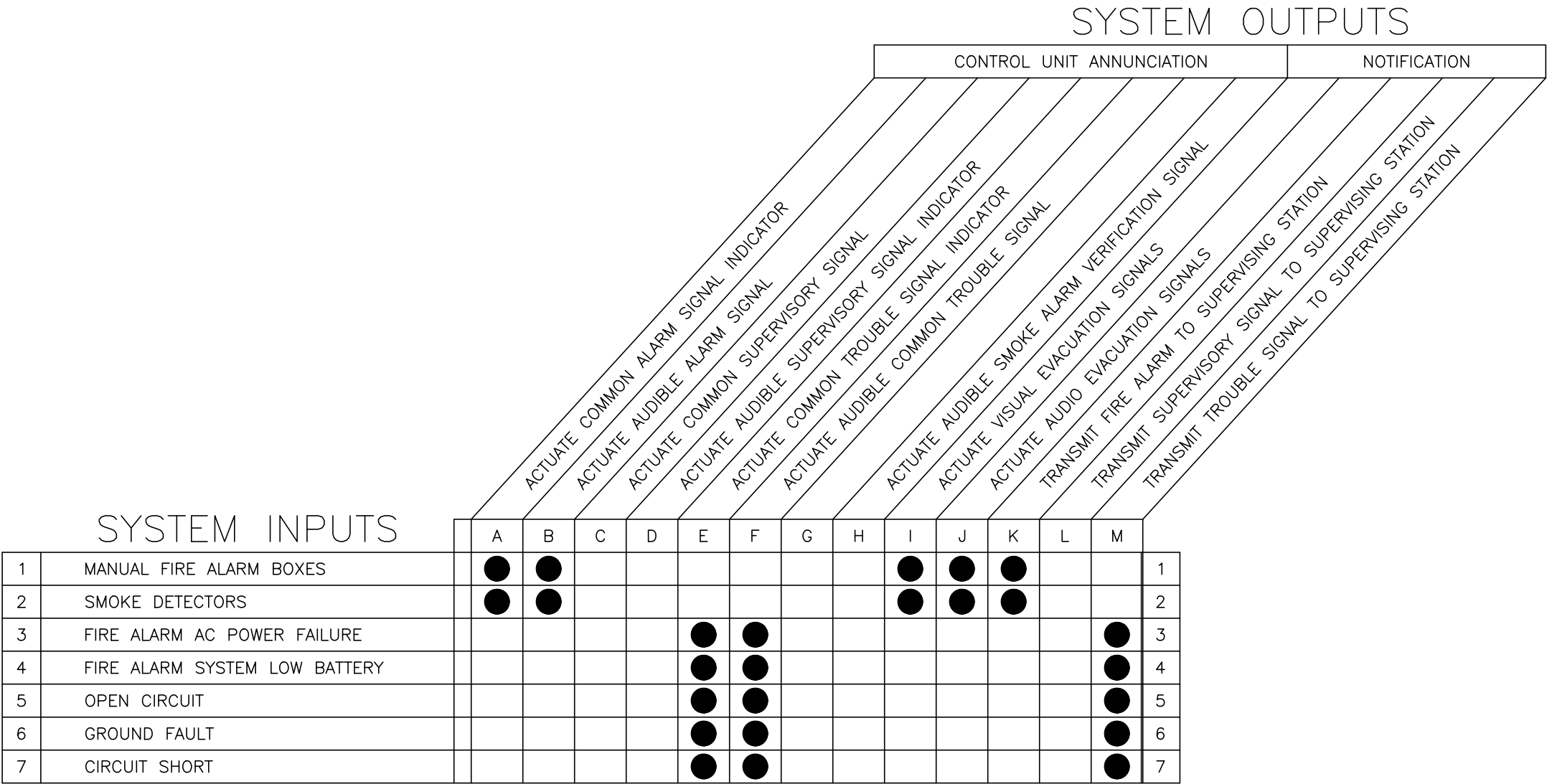
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING FIRE ALARM PLAN	DRAWING NUMBER: FA101



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DESIGNED BY: MNS
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DRAFTED BY: SMB /
CHECKED BY: JBA / RAP



1
FA501

FIRE ALARM OPERATIONS MATRIX

SCALE: NOT TO SCALE

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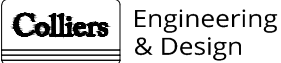
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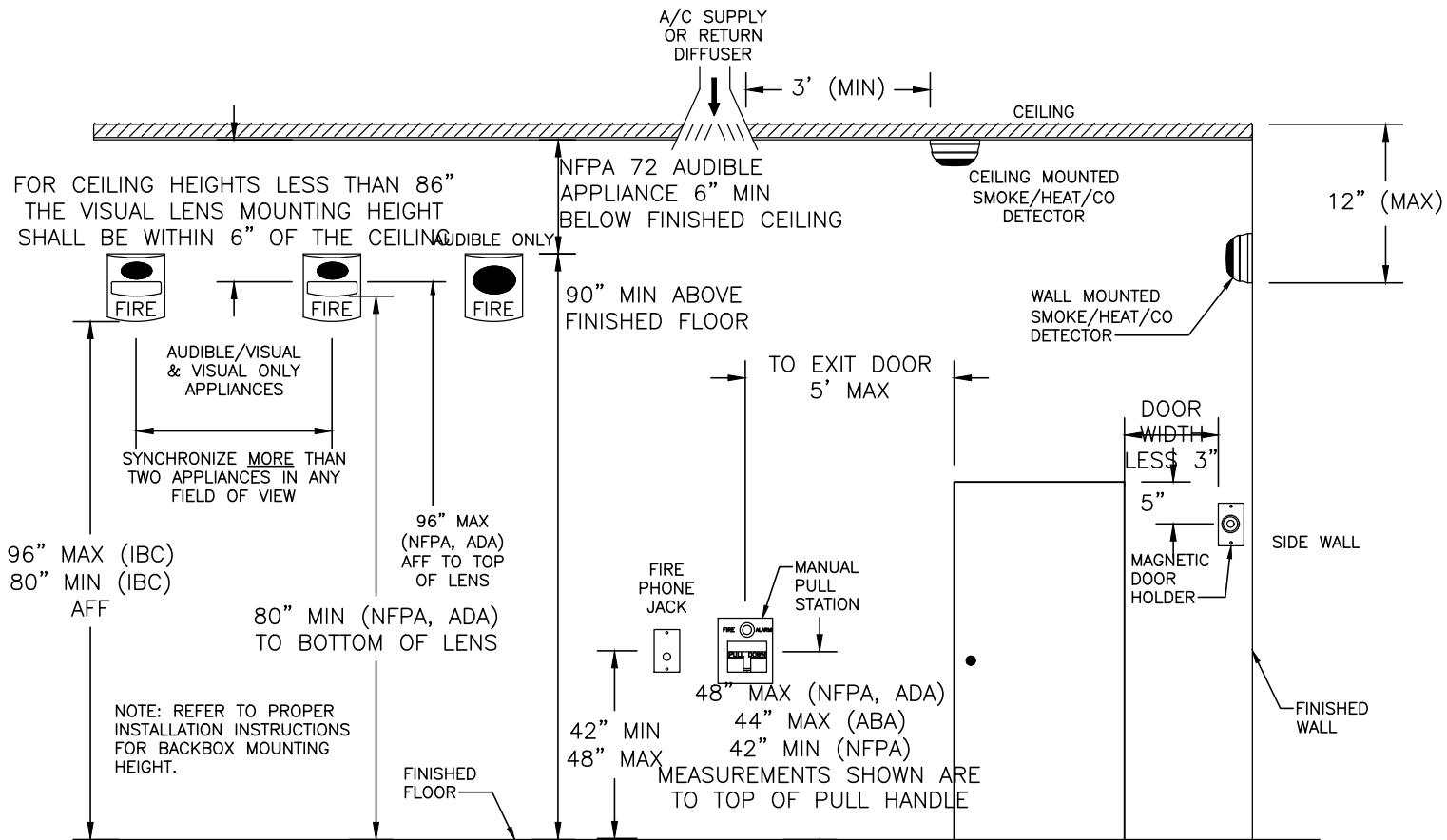


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LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING FIRE ALARM DETAILS (1)	DRAWING NUMBER: FA501

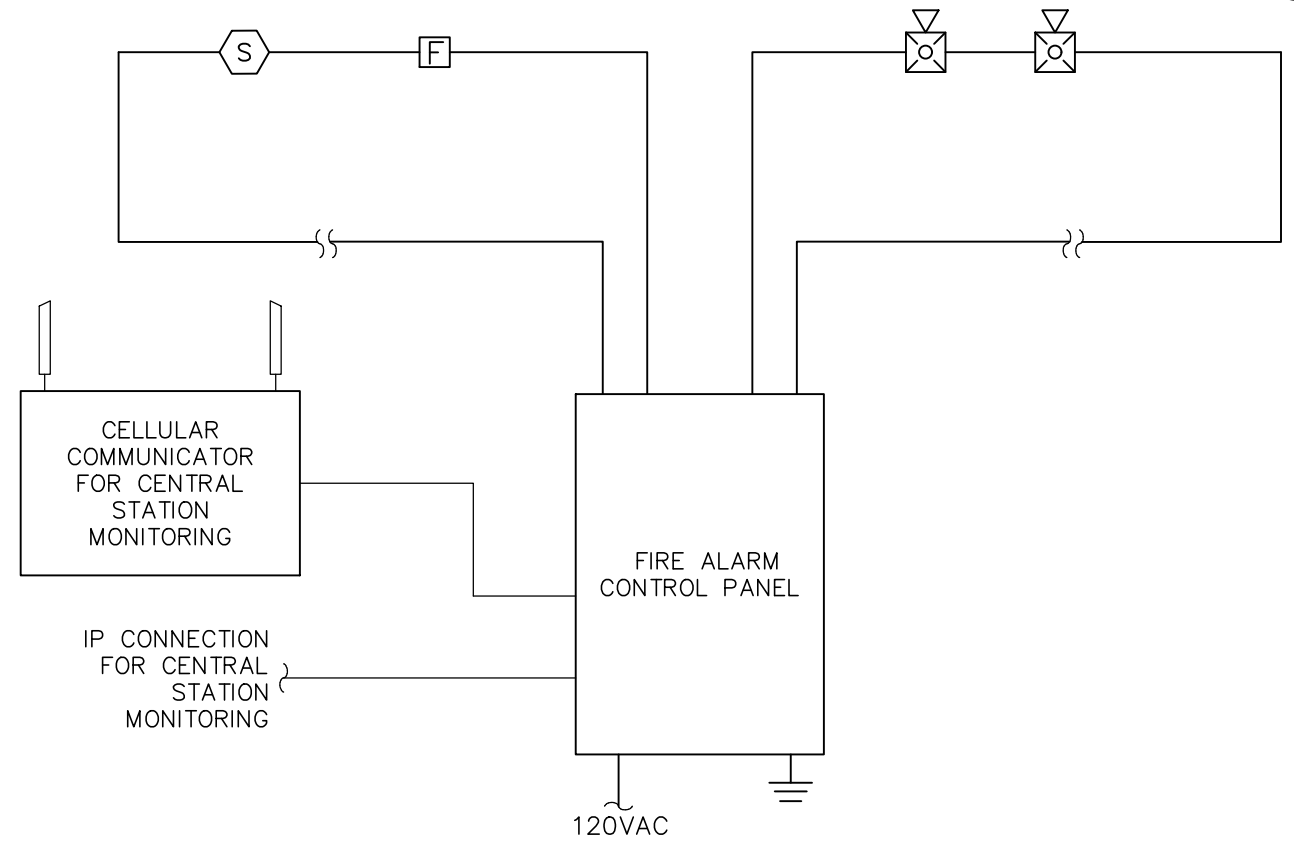

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1
FA502
TYPICAL FIRE ALARM DEVICE MOUNTING HEIGHTS
SCALE: NOT TO SCALE



2
FA502
FIRE ALARM RISER DIAGRAM
SCALE: NOT TO SCALE

FIRE ALARM RISER DIAGRAM NOTES:

- REFER TO FLOOR PLAN FOR QUANTITIES & LOCATIONS OF ALL DEVICES.
- FIRE ALARM SUPPLIER TO PROVIDE FULL SYSTEM RISER DIAGRAM FOR APPROVAL WITH SHOP DRAWING SUBMITTAL.
- PROVIDE ALL INTERFACE MODULES & HARDWARE REQUIRED TO ACCOMMODATE DEVICES AS SHOWN, INCLUDING ALL APPLIANCES AND DEVICES.
- COORDINATE EXACT FIRE ALARM SYSTEM WIRING INCLUDING SIZES, QUANTITIES & ROUTING WITH FIRE ALARM MANUFACTURER & SITE CONDITIONS.
- WIRING INDICATED ON THE RISER DIAGRAM IS DIAGRAMMATIC ONLY & IS NOT INTENDED TO INDICATE ROUTING OR QUANTITIES OF WIRES REQUIRED. PROVIDE WIRING FOR A COMPLETE SYSTEM AS REQUIRED BY SYSTEM MANUFACTURER. ALL DEVICES MAY NOT BE INDICATED ON RISER DIAGRAM. REFER TO FLOOR PLAN FOR QUANTITIES & LOCATIONS OF DEVICES.
- NOT ALL INTERCONNECTING WIRING IS INDICATED ON RISER DIAGRAM. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- CLASS A WIRING FOR DETECTION DEVICES AND AND NOTIFICATION APPLIANCES.
- THE FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM IF DESIRED.
- PROVIDE ALL REQUIRED POWER SUPPLY WIRING ON A DEDICATED CIRCUIT FOR THE FACP.
- T-TAPPING SHALL NOT BE ALLOWED WITH CLASS A CIRCUITS.
- COORDINATE 120V POWER AND EXACT LOCATION OF FACP WITH ELECTRICAL CONTRACTOR.



ALTERED ON:	AFFIXED ON: 08/14/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/14/2026
TITLE OF DRAWING FIRE ALARM DETAILS (2)	DRAWING NUMBER: FA502