

Plotted By: D:\proj\Nabil_Sheet_Sets\kha_Layout\G-01 COVER December 27, 2023 09:23:51am k:\NPN_Civil\117513002 - WTP UV Improvements\CADD\PlanSheets\G-01 - TITLE SHEET.dwg
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PROJECT DESCRIPTION:

1. REMOVE EXISTING UV LAMP SYSTEM
2. INSTALL NEW UV LAMP SYSTEM
3. REPLACE GANTRY CRANE
4. ADD COVER FOR CONTROL PANELS
5. ADD 37'X29' COVER OVER TANK (BID ALT. NO. 2)

UTILITY AND GOVERNING AGENCIES CONTACT LIST

PUBLIC WORKS
 CITY OF FRANKLIN PUBLIC WORKS
 1050 PRETLOW STREET
 FRANKLIN, VA 23851
 PHONE: 757-562-8564
 FAX: 757-562-7883
 CONTACT: CHAD EDWARDS

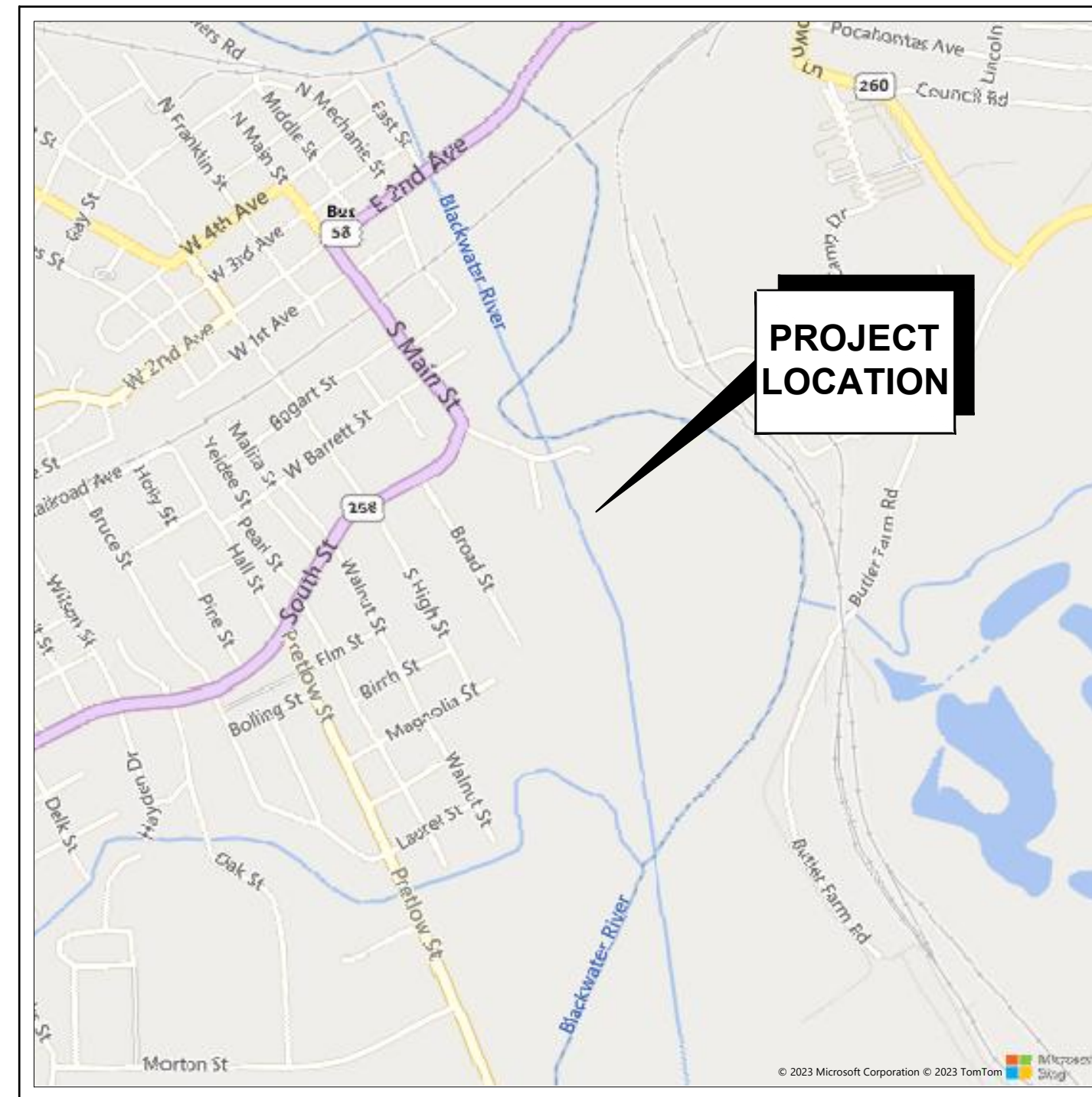
COMMUNITY DEVELOPMENT
 CITY OF FRANKLIN COMMUNITY DEVELOPMENT
 207 WEST SECOND AVENUE
 FRANKLIN, VIRGINIA 23851
 TEL: (757) 562-8681
 CONTACT: CARLEE GURSKIY

DEPARTMENT OF ENVIRONMENTAL QUALITY
 TIDEWATER REGIONAL OFFICE
 WATER PERMIT MANAGER
 5636 SOUTHERN BLVD.
 VIRGINIA BEACH, VIRGINIA 23462
 (757) 799-8000
 CONTACT: LOAN PHAM

ENGINEER
 KIMLEY-HORN AND ASSOCIATES
 4525 MAIN ST, SUITE 1000
 VIRGINIA BEACH, VA 23462
 TEL. (757) 213-8617
 CONTACT: JAMES VEEN, P.E.



FRANKLIN WASTEWATER TREATMENT PLANT UV DISINFECTION REPLACEMENT DECEMBER 27, 2023



VICINITY MAP
 1" = 1000'

APPROVED BY THE CITY OF FRANKLIN _____ DATE _____

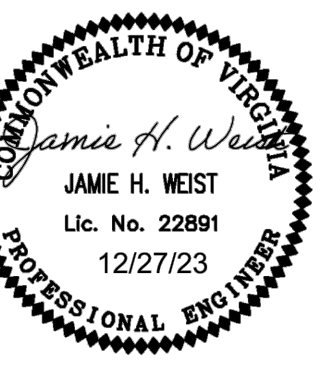
Chad Edwards 12/27/23
 CHAD EDWARDS - DIRECTOR, DEPARTMENT OF PUBLIC WORKS

PRIOR TO CONSTRUCTION, CONTRACTOR SHALL
 CALL
"MISS UTILITY"
 OF VIRGINIA
DIAL - 811
 FOR LOCATION OF UNDERGROUND UTILITIES



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KHA PROJECT 117513002
 DATE DEC. 2023
 SCALE AS SHOWN
 DESIGNED BY JDV
 DRAWN BY KTN
 CHECKED BY JHW

COVER

FRANKLIN WASTEWATER
 TREATMENT PLANT UV
 DISINFECTION
 REPLACEMENT
 PREPARED FOR
 CITY OF FRANKLIN
 VIRGINIA

SHEET NUMBER
 G-01

RESPONSIBLE LAND DISTURBER — CERTIFICATION

THE FOLLOWING PERSON _____ (PRINT), _____ (SIGN), IS IDENTIFIED AS THE RESPONSIBLE LAND DISTURBER WHO WILL BE IN CHARGE OF AND RESPONSIBLE FOR CARRYING OUT THE LAND DISTURBING ACTIVITY. THIS PERSON MEETS THE APPLICABLE REQUIREMENTS OF VIRGINIA CODE SECTION 10.1-563 AND 10.1-566 BY VIRTUE OF THE FOLLOWING (CHECK THE CATEGORY THAT APPLIES):

____ RESPONSIBLE LAND DISTURBER CERTIFICATE

____ DCR CERTIFICATION FOR COMBINED ADMINISTRATOR, ADMINISTRATOR, LAND REVIEWER, INSPECTOR, OR CONTRACTOR.

____ VA PROFESSIONAL ENGINEER, LAND SURVEYOR, LANDSCAPE ARCHITECT, OR ARCHITECT.

UPON AWARD OF THE CONTRACT AND BEFORE ANY LAND DISTURBING ACTIVITY CAN BEGIN, THE CONTRACTOR SHALL BE DESIGNATED AS THE "PERMITEE" OF RECORD AND SHALL EXECUTE THE CERTIFICATE FOR RESPONSIBLE LAND DISTURBER WITH THE DEPARTMENT OF CITY PLANNING, ENVIRONMENTAL SERVICES. THIS EXECUTED FORM IS TO BE SUBMITTED TO THE DEPARTMENT OF UTILITIES AND THE DEPARTMENT OF PLANNING. AWARD OF THE CONTRACT WILL RELIEVE THE ABOVE SIGNER OR ALL RESPONSIBILITY.

Plotted By: Djaf, Nabil Sheet: Sct:kha Layout: G-02 GENERAL NOTES December 27, 2023 09:23:58am K:\NPN_Civil\117513002 - WWP UV Improvements\CADD\PlanSheets\G-02 - GENERAL NOTES.dwg
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GENERAL NOTES:

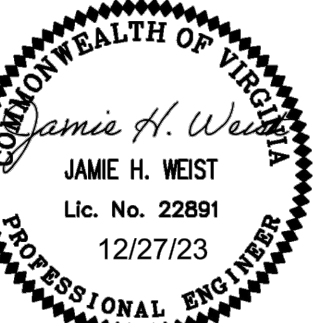
1. **WARRANTY/DISCLAIMER:** THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER THE ENGINEER NOR ITS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON A CONTINUOUS BASIS AT THE SITE.
2. **SAFETY NOTICE TO CONTRACTOR:** IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.
3. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE CURRENT EDITION OF THE CITY OF FRANKLIN CONSTRUCTION SPECIFICATIONS AND STANDARDS AND HAMPTON ROADS PLANNING DISTRICT COMMISSION REGIONAL CONSTRUCTION STANDARDS.
4. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY AND THE AFFECTED UTILITY, IN THE EVENT THAT ANY UTILITIES ARE DAMAGED DURING CONSTRUCTION. ANY UTILITIES DAMAGED AS A RESULT OF THE CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE UTILITY OWNER AT NO ADDITIONAL COST TO THE PROJECT.
A. CITY OF FRANKLIN PUBLIC WORKS (757-562-8563)
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SHOULD ANY FIELD CONDITIONS BE ENCOUNTERED THAT VARY FROM THE INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS.
6. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION, ELEVATION, ORIENTATION, DIMENSIONS, MATERIALS, ETC. OF EXISTING PIPE PRIOR TO ORDERING MATERIAL AND SHALL USE NECESSARY FITTINGS FOR CONNECTIONS.
7. THE CONTRACTOR SHALL RESTORE GRADE TO PRE-CONSTRUCTION CONDITION UNLESS OTHERWISE NOTED ON THE DRAWINGS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EQUIPMENT, MATERIAL AND GENERAL CONSTRUCTION DEBRIS FROM THE SITE, STREET, PUBLIC RIGHT OF WAY OR PROPERTY THEREIN OR ADJACENT THERETO, DUMPING OF SUCH DEBRIS INTO SEWERS, ONTO ADJACENT PROPERTY OR ONTO OTHER LAND IN THE CITY IS PROHIBITED.
9. THE CONTRACTOR SHALL NOT PARK EQUIPMENT IN THE RIGHT OF WAY OVERNIGHT OR ON WEEKENDS WITHOUT PRIOR PERMISSION FROM THE CITY OF FRANKLIN.
10. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE LIMITS OF THE PUBLIC RIGHT OF WAY AND CITY OF FRANKLIN PROPERTY, UNLESS OTHER AGREEMENTS BETWEEN THE CONTRACTOR AND PRIVATE LAND OWNER(S) ARE ESTABLISHED. THE CONTRACTOR SHALL PROVIDE THE CITY WITH A COPY OF ALL FINAL AGREEMENTS FOR THE USE OF PRIVATE LAND(S).
11. VEHICULAR INGRESS AND EGRESS FOR PROPERTIES ALONG THE AFFECTED RIGHT OF WAY, INCLUDING BUT NOT LIMITED TO MAIL AND PARCEL DELIVERY, SCHOOL BUSES, REFUSE COLLECTION, POLICE, FIRE AND OTHER EMERGENCY VEHICLES, ETC., SHALL BE MAINTAINED AT ALL TIMES.
12. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND THE CITY OF FRANKLIN EROSION AND SEDIMENT CONTROL ORDINANCE.
13. EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF-SITE. A SOIL AND EROSION CONTROL PLAN SHALL BE SUBMITTED BY THE CONTRACTOR AND APPROVED FOR THE DISPOSAL SITE(S).
14. FINAL INSPECTION SHALL BE REQUIRED BY THE CITY OF FRANKLIN PRIOR TO ACCEPTANCE OF THE PROJECT.
15. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL PAVED OR GRAVEL DRIVEWAYS, CURB AND GUTTER, AND CONCRETE APRONS DAMAGED DURING CONSTRUCTION IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE CITY OF FRANKLIN CONSTRUCTION SPECIFICATIONS.
16. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SHEETING REQUIRED FOR THE PROJECT AND THE SHEETING SHALL BE INSTALLED AS REQUIRED TO PROTECT EXISTING UTILITIES.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL LINES AND GRADES.
18. ALL ROADWAYS SHALL BE KEPT FREE OF MUD AND DEBRIS AND SHALL BE CLEANED AT THE END OF EACH WORK DAY.
19. DAMAGE TO EXISTING PAVEMENT AREAS OUTSIDE THE LIMITS SHOWN IN THE DETAILS WILL BE RESTORED BY THE CONTRACTOR BY PAVEMENT REPLACEMENT REPAIR FOLLOWED BY MILLING AND OVERLAYING AT NO ADDITIONAL COST TO THE PROJECT.
20. THE CONTRACTOR SHALL COMPLY WITH THE TERMS OF THE "UNDERGROUND UTILITY DAMAGE PREVENTION ACT" TITLE 56, CHAPTER 10.3, SECTIONS 56-265.14 THROUGH 56-265.29 OF THE CODE OF VIRGINIA, AS AMENDED, PRIOR TO DOING ANY EXCAVATION TO ENSURE THAT NO DAMAGE WILL BE DONE TO EXISTING UNDERGROUND FACILITIES AND AGREES TO HOLD THE CITY OF FRANKLIN AND THE ENGINEER HARMLESS AGAINST ANY LOSS, DAMAGES, OR CLAIMS OF ANY NATURE WHATSOEVER ARISING OUT OF THE CONTRACTOR'S FAILURE TO SO COMPLY WITH THE REQUIREMENTS OF SAID ACT. WHERE UNDERGROUND FACILITIES ARE ENCOUNTERED, THEY SHALL BE PROTECTED, EVEN TO THE EXTENT THAT HAND EXCAVATION SHALL BE PERFORMED.
21. THE WORK IN THIS CONTRACT WILL BE PERFORMED ADJACENT TO OVERHEAD POWER LINES. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR EQUIPMENT AND MATERIALS OR OTHER MEASURES AS REQUIRED FOR PROTECTION FROM INDUCED CURRENTS OR SHOCK HAZARD. CONTRACTOR SHALL COMPLY WITH THE "OVERHEAD HIGH VOLTAGE LINE SAFETY ACT" (SECTION 59.1-406, ET. SEC. OF THE CODE OF VIRGINIA).
22. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION SCHEDULE AND ACTIVITIES THROUGH CHAD EDWARDS OF THE CITY OF FRANKLIN'S DEPARTMENT OF PUBLIC UTILITIES (757-562-8564).

DEMO NOTES:

1. THE CONTRACTOR SHALL COORDINATE THE DEMOLITION OF THE ELECTRICAL CONDUIT, WIRE, EQUIPMENT AND DEVICES WITH THE GENERAL DEMOLITION AND SCHEDULE. THE DRAWINGS ARE INTENDED TO CONVEY THE GENERAL NATURE AND SCOPE OF THE DEMOLITION WORK. EVERY ITEM TO BE DEMOLISHED MAY NOT BE SHOWN. FIELD VERIFY WITH OWNER PRIOR TO BID, AND INCLUDE ALL DEMOLITION WORK IN THE CONTRACT PRICE.
2. PROVIDE TEMPORARY WIRE AND CONDUIT FOR THE EQUIPMENT WHICH MAY BE AFFECTED BY THE DEMOLITION BUT TO REMAIN IN SERVICE. WHERE NECESSARY TO MAINTAIN PLANT OPERATION, THE CONTRACTOR SHALL PROVIDE A GENERATOR OR GENERATORS TO KEEP THE PROCESS IN OPERATION WHILE SERVICE SWITCHOVER IS BEING PERFORMED.
3. RELOCATE AND RECONNECT POWER AND CONTROL RACEWAYS AND CONDUCTORS TO EQUIPMENT AFFECTED BY DEMOLITION WORK.
4. ALL CONDUCTORS BEING DEMOLISHED SHALL BE DISCONNECTED AND REMOVED FROM THE LOAD TO THE SURFACE MOUNTED CONDUITS AND MOUNTING HARDWARE SHALL BE REMOVED. UNDERGROUND CONDUITS WHICH ARE NOT BEING REMOVED OR NOT BEING REUSED SHALL BE CAPPED AND TAGGED AS SPARE, WITH INFORMATION CLEARLY INDICATING THE LOCATION OF THE OTHER END, UNLESS NOTED OTHERWISE.
5. ALL SURFACES WHERE DEMOLISHED EQUIPMENT OR CONDUIT IS REMOVED SHALL BE CLEANED, PATCHED AND PAINTED TO MATCH THE SURROUNDING SURFACE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO CHECK THE FUNCTION OF EACH CONDUCTOR BEFORE REMOVING OR DISCONNECTING.
7. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO BID TO DETERMINE IF CONDUCTORS WHICH ARE TO STAY IN SERVICE (NOT BEING DEMOLISHED) ARE INSTALLED IN A COMMON CONDUIT WITH CONDUCTORS WHICH ARE BEING DEMOLISHED. THE CONTRACTOR SHALL REMOVE ALL CONDUCTORS FROM THE CONDUIT, PROVIDE NEW CONDUCTORS WHICH ARE REPLACEMENTS FOR THE CONDUCTORS THAT ARE TO REMAIN IN SERVICE AND RE-INSTALL THE NEW CONDUCTORS. AFTER THE CONDUCTORS ARE PULLED, MEGGER OR HIPOUT TEST EACH CONDUCTOR, CONNECT BOTH ENDS OF THE NEW CONDUCTORS AND TEST THE SYSTEM FOR PROPER FUNCTION. DO NOT RE-PULL USED CONDUCTORS.
8. WHERE EQUIPMENT IS BEING RE-FED FROM A NEW SOURCE, EXISTING CONDUIT MAY BE REUSED ONLY IF THE CONDUIT AND FITTINGS ARE OF THE TYPE SPECIFIED FOR NEW WORK ON THIS CONTRACT. IF NOT, THE CONDUIT AND CONDUCTORS SHALL BE REPLACED WITH NEW MATERIAL MEETING THE SPECIFICATIONS, AT NO ADDITIONAL COST TO THE OWNER.
9. THE CONTRACTOR SHALL NOT MAKE ANY MODIFICATIONS UNTIL THE FOLLOWING HAS BEEN DONE:
 - 9.1. THE OWNER/CONTRACTOR SHALL WITNESS AND RECORD THE CONDITION OF THE EXISTING EQUIPMENT, THE CONTRACTOR SHALL NOTE DOWN ANY DEFECTS OR DEFICIENCIES.
 - 9.2. THE OWNER SHALL OPERATE THE EQUIPMENT TO DEMONSTRATE THE CURRENT CONDITIONS. THE CONTRACTOR SHALL NOTE DOWN ANY DEFECTS OR DEFICIENCIES.
 - 9.3. A WRITTEN AND PHOTOGRAPHIC RECORD OF THE OPERATION AND EXISTING CONDITION SHALL BE KEPT IN A THREE RING BINDER IN THE OWNERS ADMINISTRATIVE BUILDING, IN FORM OF PICTURES AND INFORMATION ON A FORM.
 - 9.4. A FORM SHALL BE GENERATED BY THE CONTRACTOR TO RECORD THE OBSERVATIONS. BOTH PARTIES SHALL SIGN ON THE FORM.
 - 9.5. AFTER THE CHANGES ARE MADE, THE EQUIPMENT SHALL BE INSPECTED AND RE-TESTED TO DEMONSTRATE THAT IT FUNCTIONS CORRECTLY.
 - 9.6. NO PORTION OF EXISTING CONDUCTORS SHALL BE SPLICED TO NEW CONDUCTORS FOR RE-USE WITHOUT SPECIFIC APPROVAL FROM THE OWNER/ENGINEER ON A CASE-BY-CASE BASIS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH AND INSTALL MATERIAL OR EQUIPMENT DAMAGED DURING THE COURSE OF HIS WORK

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KHA PROJECT	117513002
DATE	DEC. 2023
SCALE	AS SHOWN
DESIGNED BY	JDV
DRAWN BY	KTN
CHECKED BY	JHW

GENERAL NOTES

FRANKLIN WASTEWATER
 TREATMENT PLANT UV
 DISINFECTION
 REPLACEMENT
 PREPARED FOR
 CITY OF FRANKLIN VIRGINIA

SHEET NUMBER
 G-02

No.	REVISIONS	DATE	BY

ELECTRICAL GENERAL NOTES:

- 1. ALL EQUIPMENT WIRING, RACEWAYS, ETC. SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, LOCAL CODES, AND INDUSTRY STANDARDS (UL, NEMA, IEEE, ANSI, ETC.) THE DRAWING NOTES AND DETAILS SHALL BE COMPLIED WITH IN ADDITION TO THE REQUIREMENTS IN THE SPECIFICATIONS. REFER TO EACH SPECIFICATION SECTION FOR SPECIFIC REQUIREMENTS.
2. ALL RACEWAY INSTALLATIONS SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURAL CONDITIONS. ALL EXPOSED RACEWAY SHALL BE INSTALLED PARALLEL TO BEAMS, CEILINGS, FLOORS AND WALLS.
3. CONDUITS SHALL BE TERMINATED IN A NEAT MANNER AND STRICTLY IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWING DETAILS.
4. CONDUITS TERMINATED INTO ENCLOSURES SHALL BE PERPENDICULAR TO THE WALLS OF THE ENCLOSURE. THE USE OF SHORT SEALTIGHT ELBOW FITTINGS FOR SUCH TERMINATIONS WILL NOT BE PERMITTED.
5. ALL RACEWAY INSTALLATIONS, CROSSING EXPANSION JOINTS OR TRANSITIONS FROM BELOW GRADE TO EXPOSED ABOVE GRADE, SHALL HAVE EXPANSION OR EXPANSION/DEFLECTION TYPE FITTINGS AS SPECIFIED FOR THE APPLICATION. SEE THE DRAWINGS FOR THE EXACT TYPE OF FITTING TO BE USED.
6. NO EXPOSED CONDUIT SMALLER THAN 3/4", NOR WIRE SMALLER THAN NO. 12 AWG, SHALL BE USED UNLESS SPECIFICALLY NOTED.
7. LIQUID TIGHT FLEXIBLE ALUMINUM CONDUIT SHALL BE USED FOR THE PRIMARY AND SECONDARY OF TRANSFORMERS, GENERATOR TERMINATIONS AND OTHER EQUIPMENT WHERE VIBRATION IS PRESENT. USE IN OTHER LOCATIONS IS NOT PERMITTED, EXCEPT FOR CONNECTIONS TO INSTRUMENTATION TRANSMITTERS, WHERE MULTIPLE PENETRATIONS ARE REQUIRED. LIQUID TIGHT FLEXIBLE ALUMINUM CONDUIT SHALL HAVE A MAXIMUM LENGTH NOT GREATER THAN THAT OF A FACTORY MANUFACTURED LONG RADIUS ELBOW OF THE CONDUIT SIZE BEING USED. THE MAXIMUM BENDING RADIUS SHALL NOT BE LESS THAN THAT SHOWN IN THE NEC CHAPTER 9, TABLE 2, "OTHER BENDS". BX OR AC TYPE PREFABRICATED CABLES WILL NOT BE PERMITTED.
8. THE WIRING DIAGRAMS, BLOCK DIAGRAMS, QUANTITY, SIZE OF WIRES, AND CONDUIT REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY APPROVED. ALL MODIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND/OR SPECIFIED.
9. FOR ALL JUNCTION BOXES, PULL BOXES AND TERMINATION BOXES IN THE RACEWAY SYSTEM IN NEMA 12 AREAS, BOXES SHALL BE OF ALUMINUM. FOR NEMA 4X AREAS BOXES SHALL BE OF 316 STAINLESS STEEL, UNLESS NOTED OTHERWISE.
10. WHERE RACEWAYS ENTER JUNCTION BOXES OR CONTROL PANELS CONTAINING ELECTRICAL OR INSTRUMENTATION EQUIPMENT, ALL ENTRANCES SHALL BE SEALED WITH WATERTIGHT SEALANT.
11. ALL EQUIPMENT AND ELECTRICAL EQUIPMENT ENCLOSURE LOCATIONS, OR TERMINAL BOX LOCATIONS, ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER/ENGINEER, DURING CONSTRUCTION, AT NO ADDITIONAL COST TO THE OWNER.
12. ALL EQUIPMENT AND ELECTRICAL EQUIPMENT ENCLOSURES DIMENSIONS ARE APPROXIMATE. ALL EQUIPMENT AND ELECTRICAL EQUIPMENT ENCLOSURES OR TERMINAL BOX DIMENSIONS SHALL BE VERIFIED WITH THE EQUIPMENT SUPPLIER. ALLOW FOR LOCATION CHANGES AND INCLUDE IN THE CONTRACT PRICE. THE EXACT LOCATIONS OF ALL ELECTRICAL EQUIPMENT AND ROUTING OF ALL CABLES AND CONDUITS SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER/ENGINEER DURING CONSTRUCTION.
13. CORING OF AN EXISTING STRUCTURE SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER/ENGINEER. CORING THROUGH STRUCTURAL BEAMS IS STRICTLY PROHIBITED, WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER/ENGINEER.
14. PROVIDE CONDUIT SEALS FOR CONDUIT PENETRATIONS.
15. THIS IS AN OPERATING FACILITY. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER. NO SHUTDOWN OF ELECTRICAL OR CONTROL EQUIPMENT WILL NOT BE PERMITTED WITHOUT A SHUTDOWN REQUEST IN WRITING BEING SUBMITTED AND APPROVED PER SPECIFICATIONS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE TO POTHOLE AS REQUIRED IN ORDER TO LOCATE AND DETERMINE DIRECTION OF ALL UNDERGROUND UTILITIES, PIPES, AND DUCTBANKS BEFORE DIGGING AT EVERY NEW POLE, GUY WIRE ANCHORS, DUCTBANK, AND MANHOLE LOCATIONS. CONTRACTOR SHALL COORDINATE THIS PROCEDURE WITH THE OWNER PRIOR TO COMMENCING WORK. CONTRACTOR IS RESPONSIBLE TO REPAIR WITHOUT COST TO THE OWNER ANY DAMAGES THAT OCCURRED TO UNDERGROUND UTILITIES DURING CONSTRUCTION.
17. ALL SLOTTED CHANNEL, SLOTTED CHANNEL SUPPORT MATERIAL, WASHERS, SCREWS, NUTS, CONDUIT CLAMPS, ALL THREAD SPRING NUTS AND MISC. MOUNTING HARDWARE SHALL BE 316 STAINLESS STEEL.
18. ALL CONDUITS AND WIRES SHOWN ON THE INTERFACE DIAGRAM SHALL BE INSTALLED BY THE CONTRACTOR. GROUPING OF CONDUIT AND WIRE MAY BE CHANGED, IF APPROVED BY THE ENGINEER AND OWNER.
19. ALL CONDULETS SHALL BE ALUMINUM FORM 7 AND SHALL HAVE 316 SS CLAMP COVERS WITH 316 SS CLAMPS AND SCREWS. SCREW DOWN COVERS ARE UNACCEPTABLE.
20. ALL BARE COPPER GROUNDING CONDUCTORS SHALL BE TINNED, ALL GROUND RODS SHALL BE COPPER CLAD STEEL, 3/4" BY 10' LONG. ALL EXPOSED COPPER GROUND CABLES SHALL BE GREEN INSULATED CONDUCTORS. PROVIDE XHHW-2 INSULATION.
21. WHERE NOTES ON THE DRAWING INDICATE THAT THE CONTRACTOR SHALL FIELD VERIFY, THE INTENT IS FOR THE CONTRACTOR TO INVESTIGATE TO THE EXTENT NECESSARY TO PROVIDE THE WORK AND MATERIALS PRIOR TO BIDDING AND INCLUDE ALL COSTS IN THE BID PRICE. THE CONTRACT PRICE SHALL NOT BE INCREASED WHEN THE CONTRACTOR HAS NOT INVESTIGATED PER THE NOTES DIRECTING THAT TO BE DONE.
22. CONDUITS SHALL NOT BE INSTALLED INTO THE TOP OF ANY NEMA ENCLOSURES RATED FOR DAMP, WET OR HOSE DOWN AREAS MOUNTED IN INDOOR PROCESS AREAS, OUTDOOR AREAS, OR ANY AREA NOT RATED TO BE DRY (ELECTRICAL ROOMS, CONTROL ROOMS, OR OFFICE AREAS). ANY ENCLOSURES THAT HAVE BEEN INSTALLED WITH TOP CONDUIT ENTRIES SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
23. ALL PORTIONS OF CONDUITS INDICATED FOR REUSE SHALL BE CLEANED BY THE CONTRACTOR BEFORE REUSE. CLEANING PROCEDURES ARE AS FOLLOWS:
A. PULL A WIRE BRUSH OF THE APPROPRIATE SIZE THROUGH THE CONDUIT.
B. PULL A CONDUIT SWAB OF THE APPROPRIATE SIZE THROUGH THE CONDUIT.
C. PULL A MANDREL OF THE APPROPRIATE SIZE THROUGH THE CONDUIT.
D. THIS PROCEDURE MAY HAVE TO BE REPEATED SEVERAL TIMES UNTIL THE CONDUIT IS CLEAN.
E. LEAVE A PULL STRING IN THE EMPTY CONDUIT AND PLUG BOTH ENDS OF THE CONDUIT AFTER CLEANING. PLUGS ARE TO BE REMOVED ONLY TO INSTALL NEW CONDUCTORS. THE CONTRACTOR IS RESPONSIBLE TO REPLACE ANY CONDUIT DAMAGED DURING THESE CLEANING PROCEDURES AT NO ADDITIONAL COST TO OWNER.
29. THE CONTRACTOR SHALL INSTALL ON ALL CONDUITS PROVIDED OR MODIFIED UNDER THE SCOPE OF THIS PROJECT WITH CONDUIT IDENTIFICATION PLATES. MODIFICATIONS TO CONDUITS INCLUDE CHANGES IN CONDUIT ROUTING AND/OR REPLACING EXISTING OR INSTALLING NEW CONDUCTORS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER THE NAMING SYSTEM TO USE IN IDENTIFYING CONDUITS. WHEN MORE THAN TWO CONDUITS ENTER A JUNCTION BOX, PULL BOX,

- 30. THE CONTRACTOR SHALL PROVIDE NAMEPLATES ON ALL EQUIPMENT WITH DESIGNATIONS AS REQUIRED BELOW, UNLESS NOTED OTHERWISE BY OWNER.
A. SWITCHGEAR, SWITCHBOARDS, PANELBOARDS, SUBSTATIONS, ETC., SHALL HAVE NAMEPLATE DESIGNATIONS AS SHOWN ON THE DRAWINGS. FOR EXAMPLE, P1-35, LCS-2, SWBD-1, ETC.
B. JUNCTION BOXES, PULL BOXES, TERMINAL ENCLOSURES, ETC. SHALL HAVE NAMEPLATE DESIGNATIONS THAT ARE UNIQUE AND SEQUENTIAL. FOR EXAMPLE, JB-1, PB-2, ETC.
C. NAMEPLATES SHALL BE ENGRAVED, LAMINATED PLASTIC, NOT LESS THAN 1/16" IN THICK BY 3/4" IN HIGH BY 2 1/2" IN WIDE (MINIMUM) WITH 3/16" IN HIGH BLACK LETTERS ON A WHITE BACKGROUND.
D. NAMEPLATES SHALL BE 316 SS SCREW MOUNTED TO ALL ENCLOSURES. SCREWS ON NEMA 4 ENCLOSURES SHALL BE SEALED BY UL LISTED METHOD. CONTRACTOR SHALL PROVIDE SUBMITTAL FOR METHOD OF SEALING SCREWS FOR APPROVAL. EPOXY ADHESIVE OR FOAM TAPE IS NOT ACCEPTABLE. THE CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS INDICATING ALL EQUIPMENT IDENTIFIED ABOVE WITH THEIR APPROPRIATE NAMEPLATE DESIGNATION.
31. REFER TO THE CONDUIT TABLE BELOW FOR APPLICABLE TYPE OF CONDUIT PER LOCATION.

DEMO NOTES:

- 1. THE CONTRACTOR SHALL COORDINATE THE DEMOLITION OF THE ELECTRICAL CONDUIT, WIRE, EQUIPMENT AND DEVICES WITH THE GENERAL DEMOLITION AND SCHEDULE. THE DRAWINGS ARE INTENDED TO CONVEY THE GENERAL NATURE AND SCOPE OF THE DEMOLITION WORK. EVERY ITEM TO BE DEMOLISHED MAY NOT BE SHOWN. FIELD VERIFY WITH OWNER PRIOR TO BID, AND INCLUDE ALL DEMOLITION WORK IN THE CONTRACT PRICE.
2. PROVIDE TEMPORARY WIRE AND CONDUIT FOR THE EQUIPMENT WHICH MAY BE AFFECTED BY THE DEMOLITION BUT TO REMAIN IN SERVICE. WHERE NECESSARY TO MAINTAIN PLANT OPERATION, THE CONTRACTOR SHALL PROVIDE A GENERATOR OR GENERATORS TO KEEP THE PROCESS IN OPERATION WHILE SERVICE SWITCHOVER IS BEING PERFORMED.
3. RELOCATE AND RECONNECT POWER AND CONTROL RACEWAYS AND CONDUCTORS TO EQUIPMENT AFFECTED BY DEMOLITION WORK.
4. ALL CONDUCTORS BEING DEMOLISHED SHALL BE DISCONNECTED AND REMOVED FROM THE LOAD TO THE SOURCE. SURFACE MOUNTED CONDUITS AND MOUNTING HARDWARE SHALL BE REMOVED. UNDERGROUND CONDUITS WHICH ARE NOT BEING REMOVED OR NOT BEING REUSED SHALL BE CAPPED AND TAGGED AS SPARE, WITH INFORMATION CLEARLY INDICATING THE LOCATION OF THE OTHER END, UNLESS NOTED OTHERWISE.
5. ALL SURFACES WHERE DEMOLISHED EQUIPMENT OR CONDUIT IS REMOVED SHALL BE CLEANED, PATCHED AND PAINTED TO MATCH THE SURROUNDING SURFACE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO CHECK THE FUNCTION OF EACH CONDUCTOR BEFORE REMOVING OR DISCONNECTING.
7. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO BID TO DETERMINE IF CONDUCTORS WHICH ARE TO STAY IN SERVICE (NOT BEING DEMOLISHED) ARE INSTALLED IN A COMMON CONDUIT WITH CONDUCTORS WHICH ARE BEING DEMOLISHED. THE CONTRACTOR SHALL REMOVE ALL CONDUCTORS FROM THE CONDUIT, PROVIDE NEW CONDUCTORS WHICH ARE REPLACEMENTS FOR THE CONDUCTORS THAT ARE TO REMAIN IN SERVICE AND RE-INSTALL THE NEW CONDUCTORS, AFTER THE CONDUCTORS ARE PULLED, MEGSER OR HIPOT TEST EACH CONDUCTOR, CONNECT BOTH ENDS OF THE NEW CONDUCTORS AND TEST THE SYSTEM FOR PROPER FUNCTION. DO NOT RE-PULL USED CONDUCTORS.
8. WHERE EQUIPMENT IS BEING RE-FED FROM A NEW SOURCE, EXISTING CONDUIT MAY BE REUSED ONLY IF THE CONDUIT AND FITTINGS ARE OF THE TYPE SPECIFIED FOR NEW WORK ON THIS CONTRACT. IF NOT, THE CONDUIT AND CONDUCTORS SHALL BE REPLACED WITH NEW MATERIAL MEETING THE SPECIFICATIONS, AT NO ADDITIONAL COST TO THE OWNER.
9. THE OWNER HAS THE RIGHT OF FIRST REFUSAL TO THE EQUIPMENT BEING REMOVED. THE CONTRACTOR SHALL DELIVER THE EQUIPMENT WHICH THE OWNER WISHES TO KEEP TO A LOCATION DESIGNATED BY THE OWNER. SEE SECTION 26 05 33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS AND PERMITS REQUIRED TO DISPOSE OFF SITE ALL DEMOLISHED EQUIPMENT REFUSED BY OWNER.
10. THE CONTRACTOR SHALL NOT MAKE ANY MODIFICATIONS UNTIL THE FOLLOWING HAS BEEN DONE:
A. THE OWNER/CONTRACTOR SHALL WITNESS AND RECORD THE CONDITION OF THE EXISTING EQUIPMENT, THE CONTRACTOR SHALL NOTE DOWN ANY DEFECTS OR DEFICIENCIES.
B. THE OWNER SHALL OPERATE THE EQUIPMENT TO DEMONSTRATE THE CURRENT CONDITIONS. THE CONTRACTOR SHALL NOTE DOWN ANY DEFECTS OR DEFICIENCIES.
C. A WRITTEN AND PHOTOGRAPHIC RECORD OF THE OPERATION AND EXISTING CONDITION SHALL BE KEPT IN A THREE RING BINDER AT THE OWNER/CONTRACTOR TRAILER, IN FORM OF PICTURES AND INFORMATION ON A FORM.
D. A FORM SHALL BE GENERATED BY THE CONTRACTOR TO RECORD THE OBSERVATIONS. BOTH PARTIES SHALL SIGN ON THE FORM.
E. AFTER THE CHANGES ARE MADE, THE EQUIPMENT SHALL BE INSPECTED AND RE-TESTED TO DEMONSTRATE THAT IT FUNCTIONS CORRECTLY.
F. NO PORTION OF EXISTING CONDUCTORS SHALL BE SPLICED TO NEW CONDUCTORS FOR RE-USE WITHOUT SPECIFIC APPROVAL FROM THE OWNER/ENGINEER ON A CASE-BY-CASE BASIS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH AND INSTALL MATERIAL OR EQUIPMENT DAMAGED DURING THE COURSE OF HIS WORK.

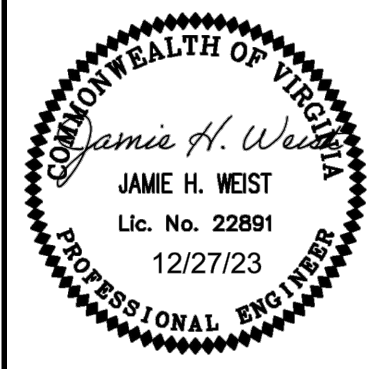
Table with 2 columns: CONDUIT TYPE and LOCATION. Rows include: 1. LIQUID TIGHT FLEXIBLE ALUMINUM CONDUIT (RACEWAY CONNECTION TO VIBRATING EQUIPMENT ONLY, IN ALL AREAS), 2. RIGID ALUMINUM CONDUIT (ALL ABOVE GRADE AREAS, EXCEPT FOR CONCRETE EMBEDDED AND THOSE AREAS DESCRIBED IN LOCATION 2), 3. PVC COATED RIGID ALUMINUM CONDUIT (ALL ELBOWS UNDERGROUND ENCASED IN RED DYE REINFORCED CONCRETE AND USED AS SHOWN ON VARIOUS ELECTRICAL STANDARD DETAILS), 4. PVC SCHEDULE 40 CONDUIT (UNDERGROUND ENCASED IN RED IN RED DYE REINFORCED CONCRETE).

Plotted By: D:\Info, Nabil - Sheet - Set:kha - Layout:G-02 GENERAL ELEC NOTES - December 27, 2023 09:23:58am K:\NPN_Civil\117513002 - WTP UV Improvements\CADD\PlanSheets\G-02 - GENERAL NOTES.dwg

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Table with 2 columns: REVISIONS and DATE. Includes a 'No.' column for revision tracking.

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Metadata table: KHA PROJECT 117513002, DATE DEC. 2023, SCALE AS SHOWN, DESIGNED BY JDV, DRAWN BY KTN, CHECKED BY JHW.

GENERAL ELECTRICAL NOTES

FRANKLIN WASTEWATER TREATMENT PLANT UV DISINFECTION REPLACEMENT PREPARED FOR CITY OF FRANKLIN VIRGINIA

Plotted By: D:\Info_Nabil_Sheet_Sect\kha_Layout\EXISTING CONTACT TANK December 27, 2023 09:24:07am k:\NPRN_Civil\117513002 - WWTP UV Improvements\CADD\PlanSheets\G-03 EXISTING CONDITIONS.dwg
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INFLUENT FROM CLARIFIERS

EXISTING CONTACT TANK
24-INCH BYPASS

UV CONTROL PANEL

UV DISINFECTION SYSTEM

AERATOR
(TYP. OFF)

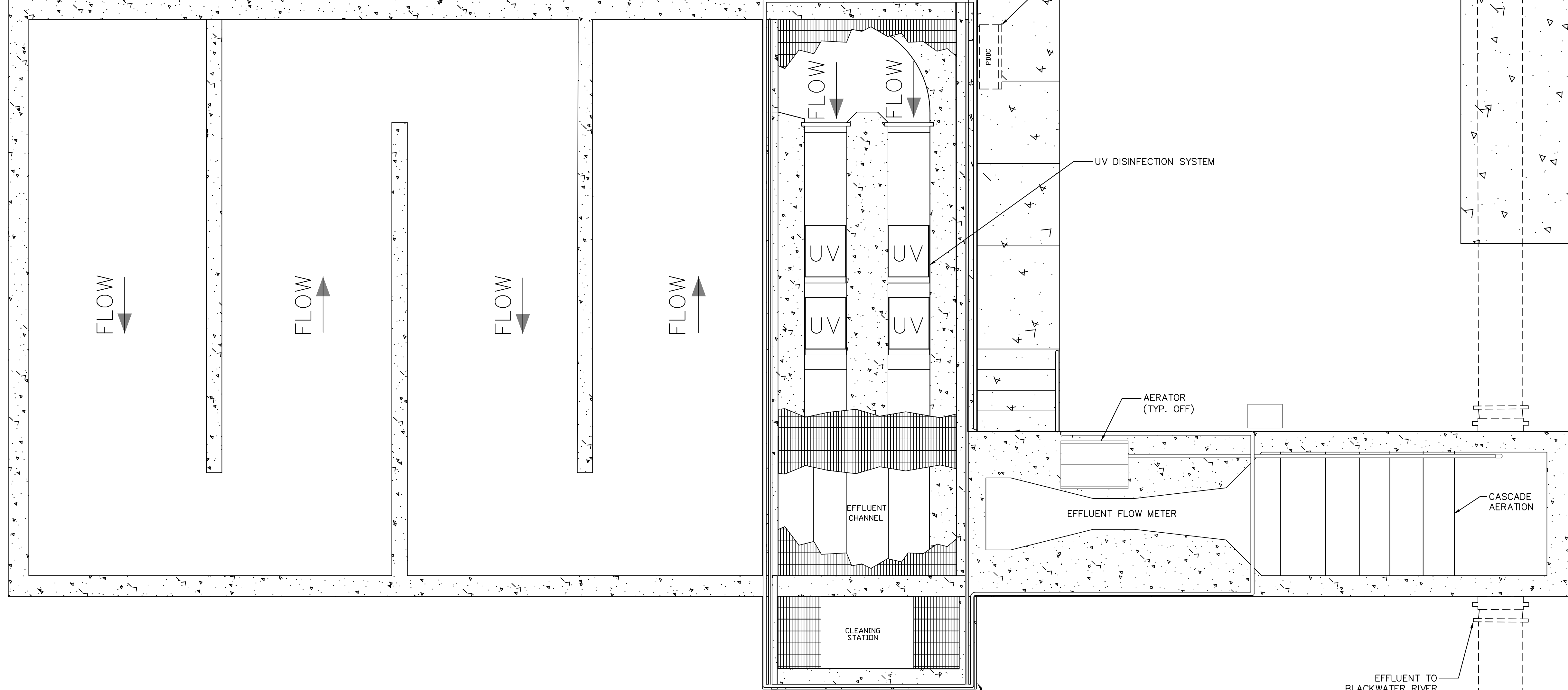
EFFLUENT FLOW METER

CASCADE AERATION

EFFLUENT TO
BLACKWATER RIVER

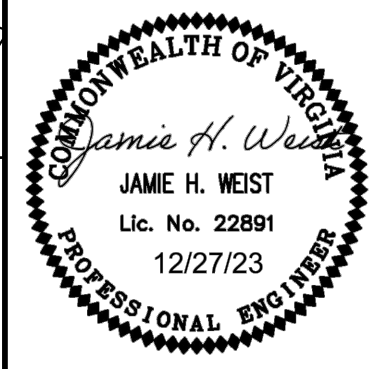
SAFETY RAILING

WWTP PROPERTY FENCE



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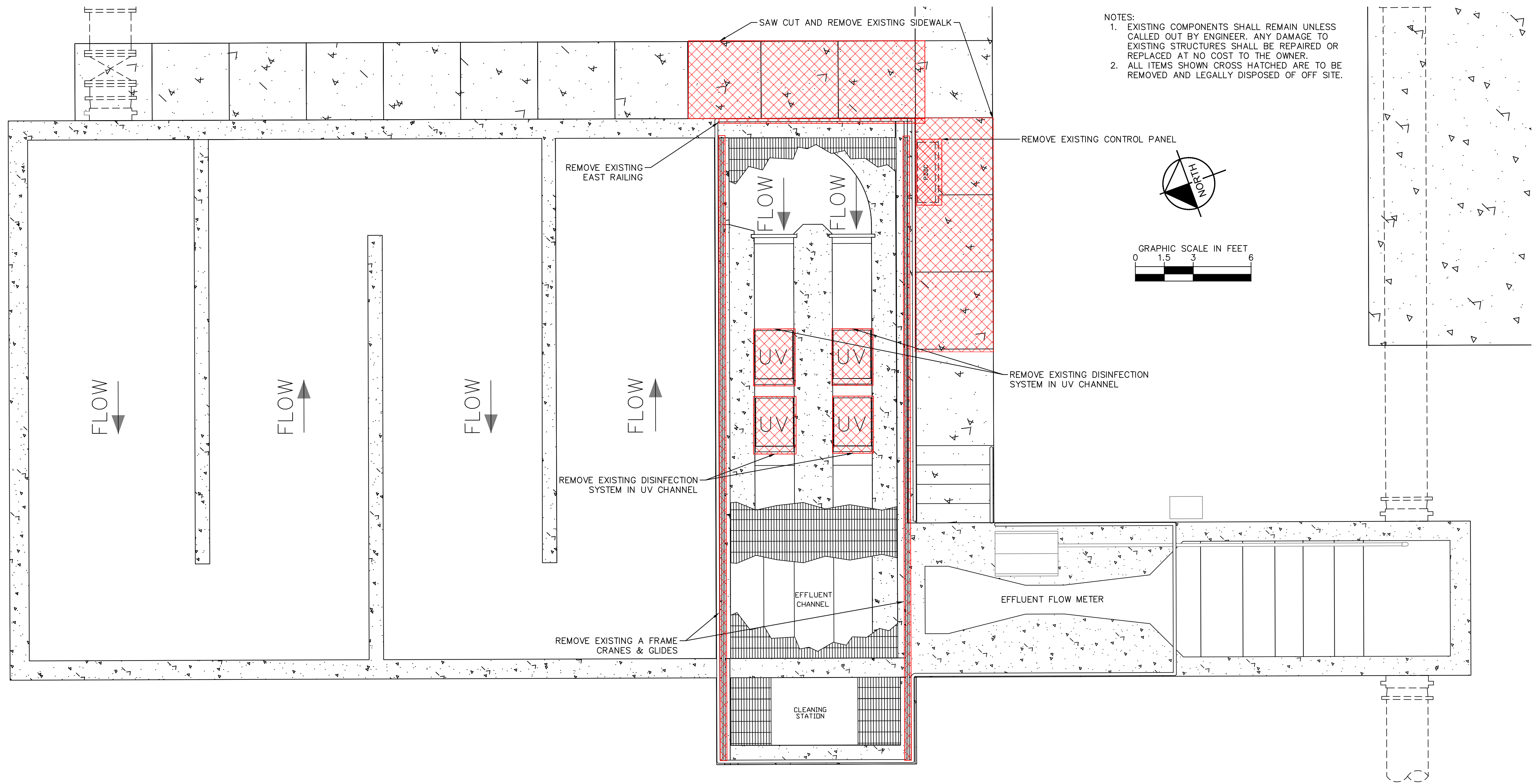
KHA PROJECT	117513002
DATE	DEC. 2023
SCALE	AS SHOWN
DESIGNED BY	JDV
DRAWN BY	KTN
CHECKED BY	JHW

EXISTING UV DISINFECTION &
CONTACT TANK

FRANKLIN WASTEWATER
TREATMENT PLANT UV
DISINFECTION
REPLACEMENT
PREPARED FOR
CITY OF FRANKLIN VIRGINIA

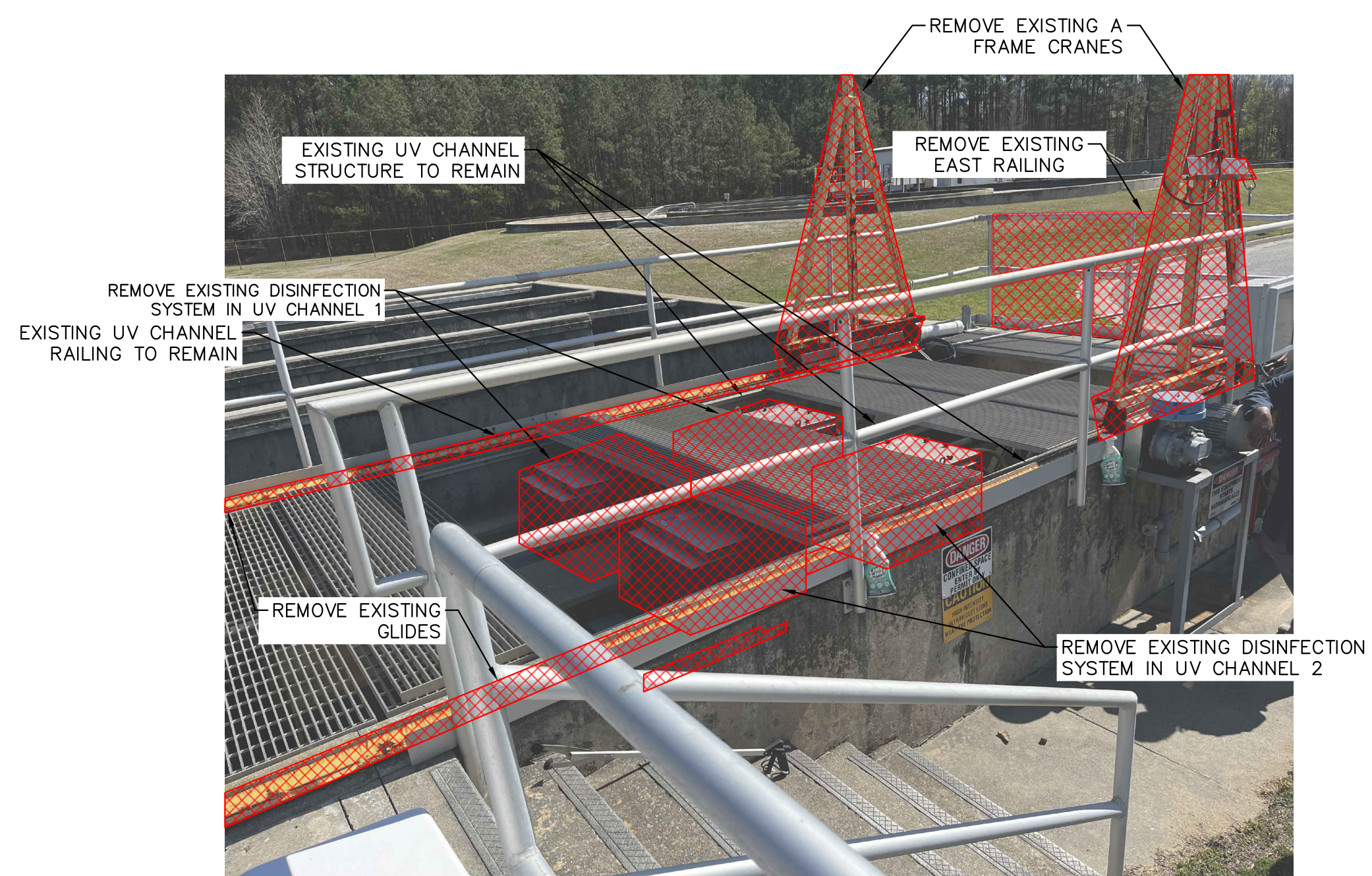
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C-02

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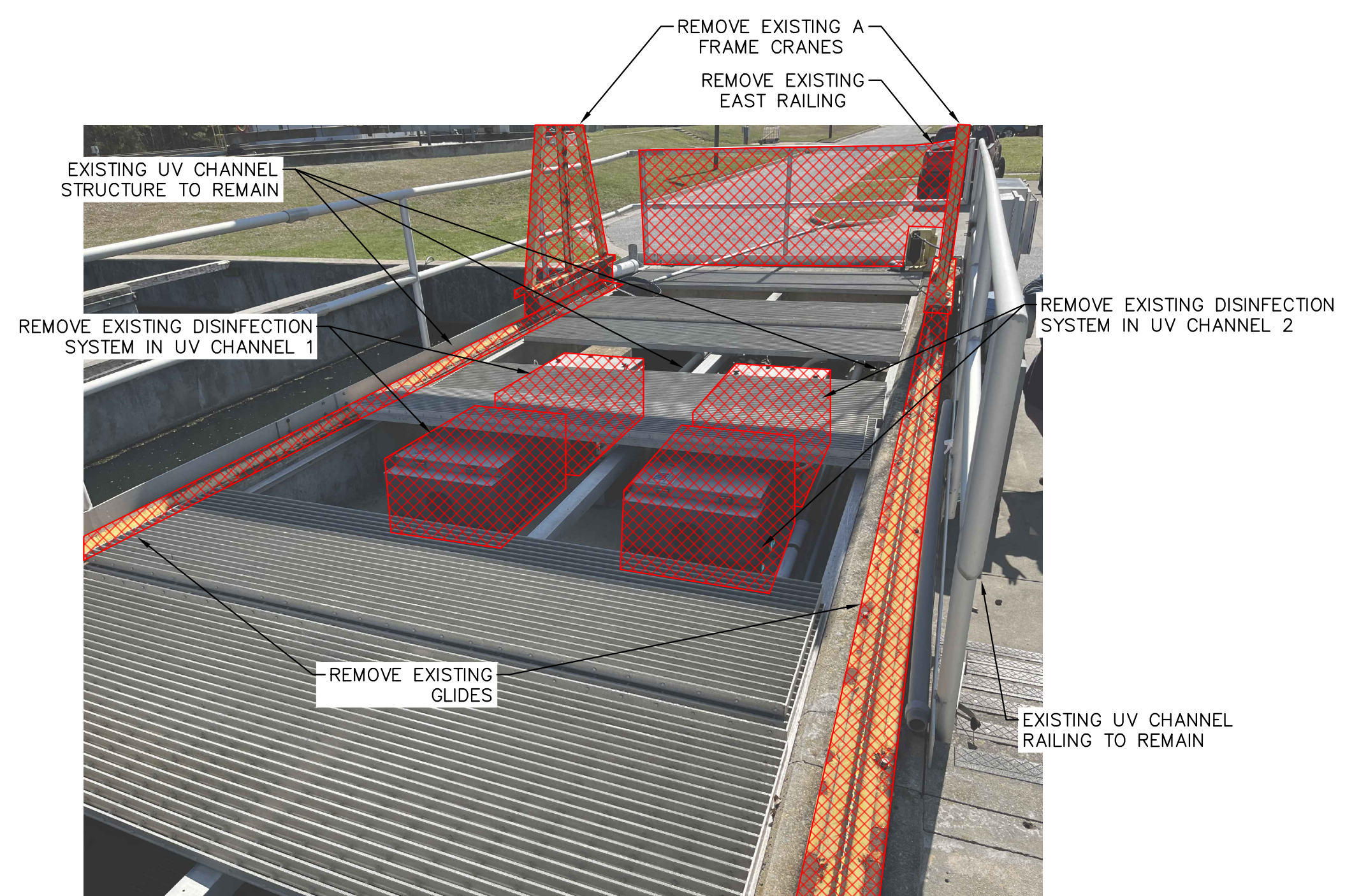
UV DISINFECTION REMOVAL 1

1" = 3'



UV DISINFECTION REMOVAL 2

NTS



UV DISINFECTION REMOVAL 3

NTS

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COMMONWEALTH OF VIRGINIA
 JAMIE H. WEIST
 Lic. No. 22891
 12/27/23
 PROFESSIONAL ENGINEER

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DATE	DEC. 2023
SCALE	AS SHOWN
DESIGNED BY	JDV
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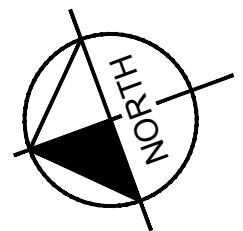
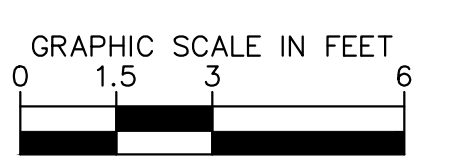
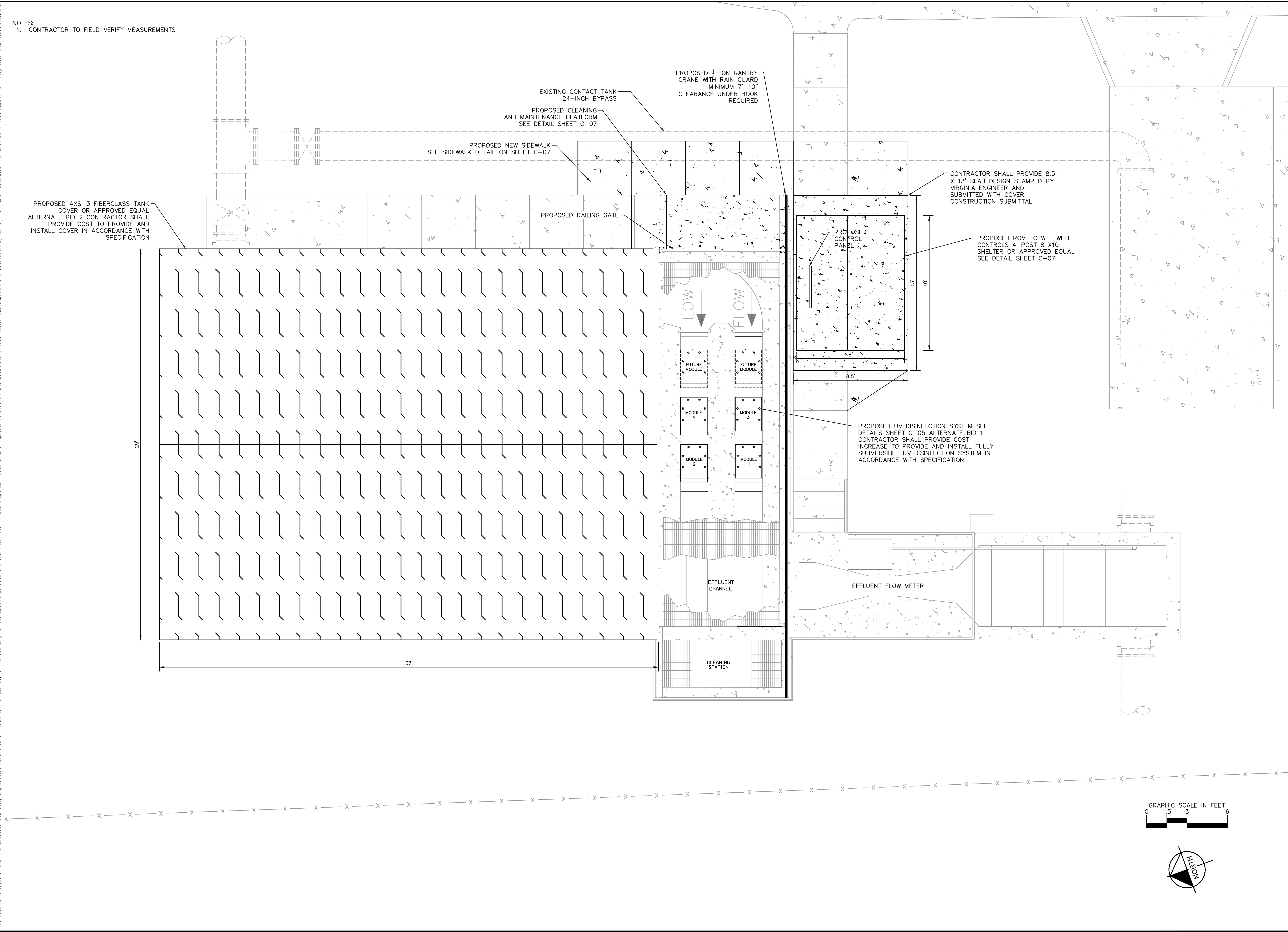
EXISTING UV DISINFECTION SYSTEM DEMOLITION PLAN

FRANKLIN WASTEWATER TREATMENT PLANT UV DISINFECTION REPLACEMENT PREPARED FOR CITY OF FRANKLIN VIRGINIA

SHEET NUMBER C-03

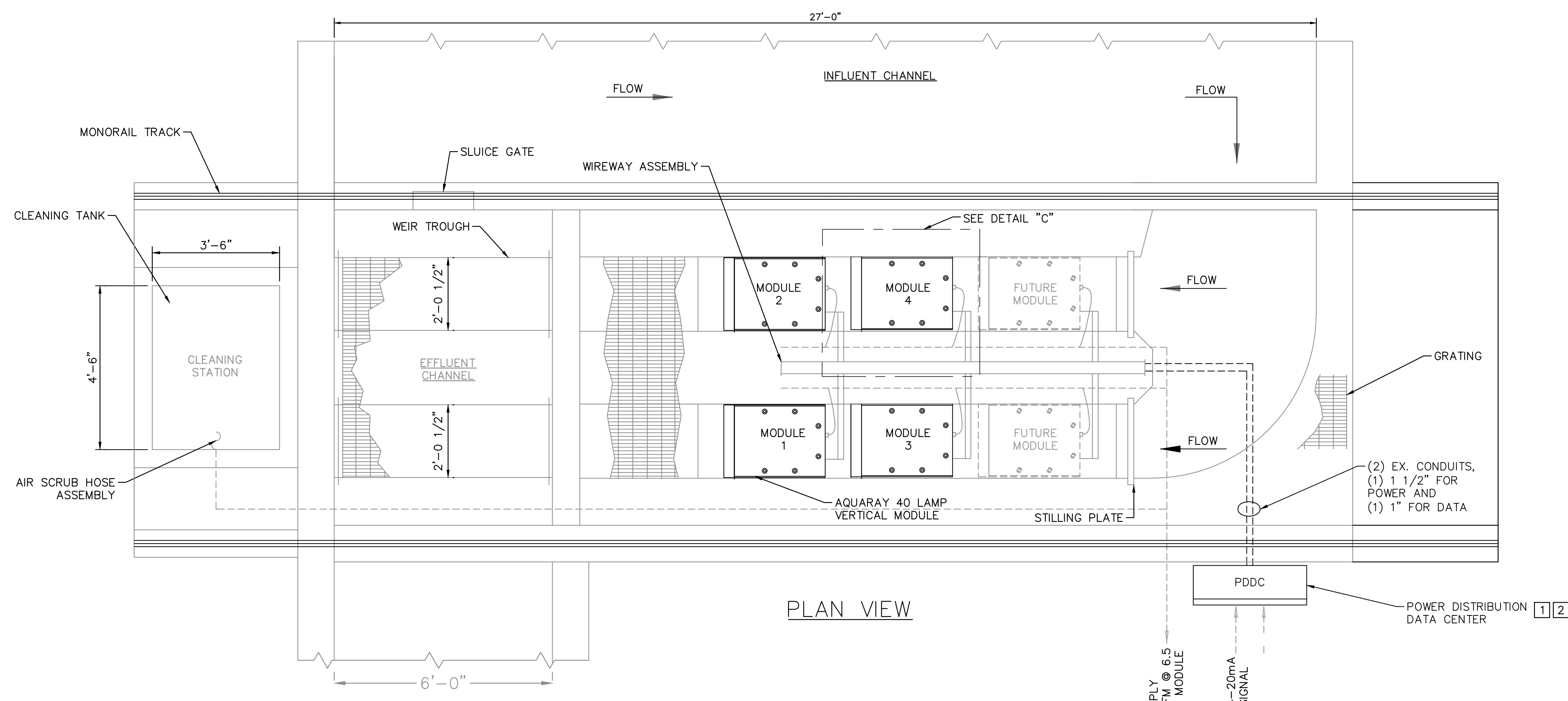
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NOTES:
 1. CONTRACTOR TO FIELD VERIFY MEASUREMENTS



PROPOSED UV DISINFECTION SYSTEM	FRANKLIN WASTEWATER TREATMENT PLANT UV DISINFECTION REPLACEMENT PREPARED FOR CITY OF FRANKLIN VIRGINIA									
KHA PROJECT: 117513002 DATE: DEC. 2023 SCALE: AS SHOWN DESIGNED BY: JDV DRAWN BY: KTN CHECKED BY: JHW										
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SHEET NUMBER C-04	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 80%;">Description</th> <th style="width: 15%;">DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	DATE						
No.	Description	DATE								

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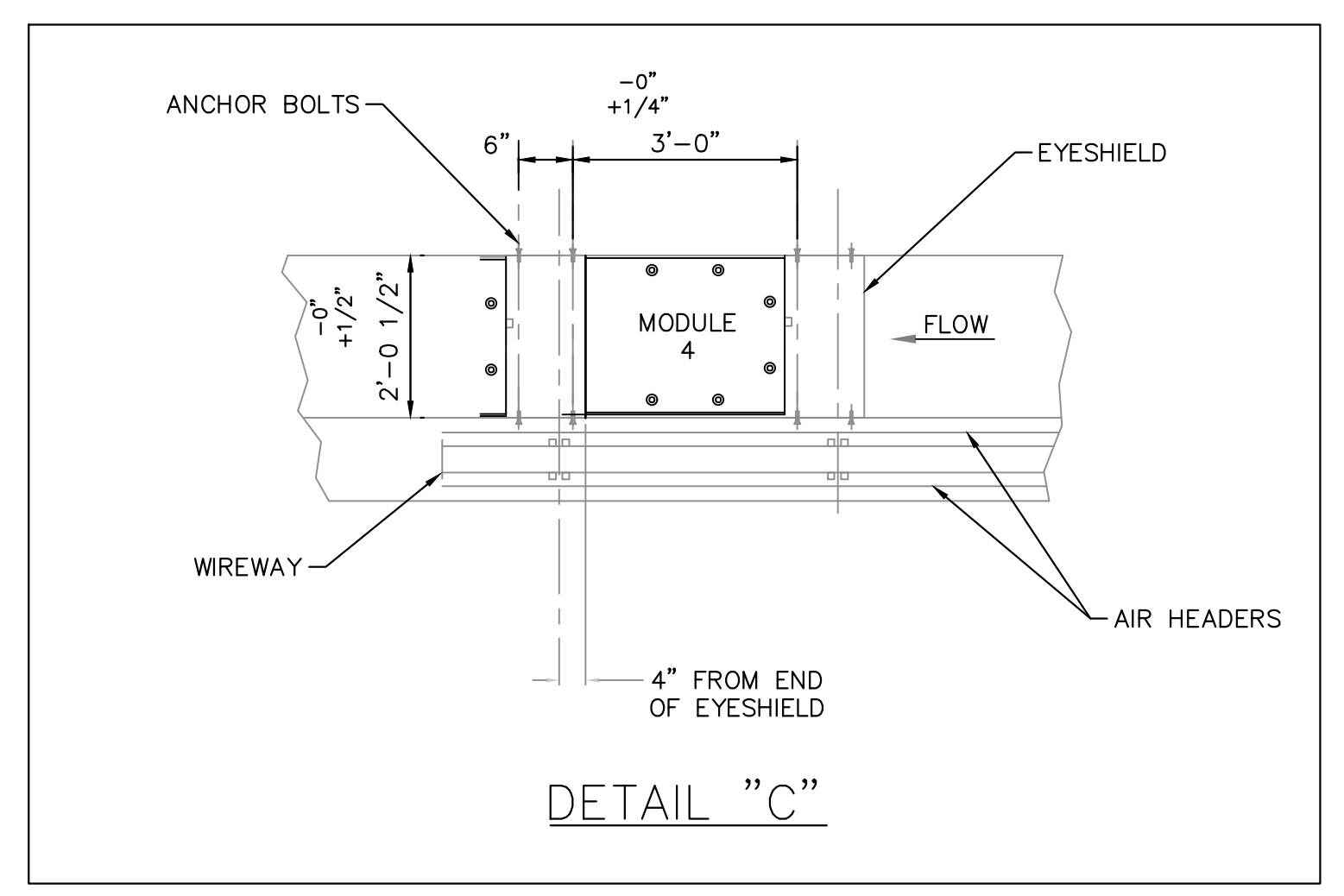
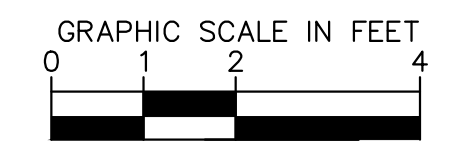


PLAN VIEW

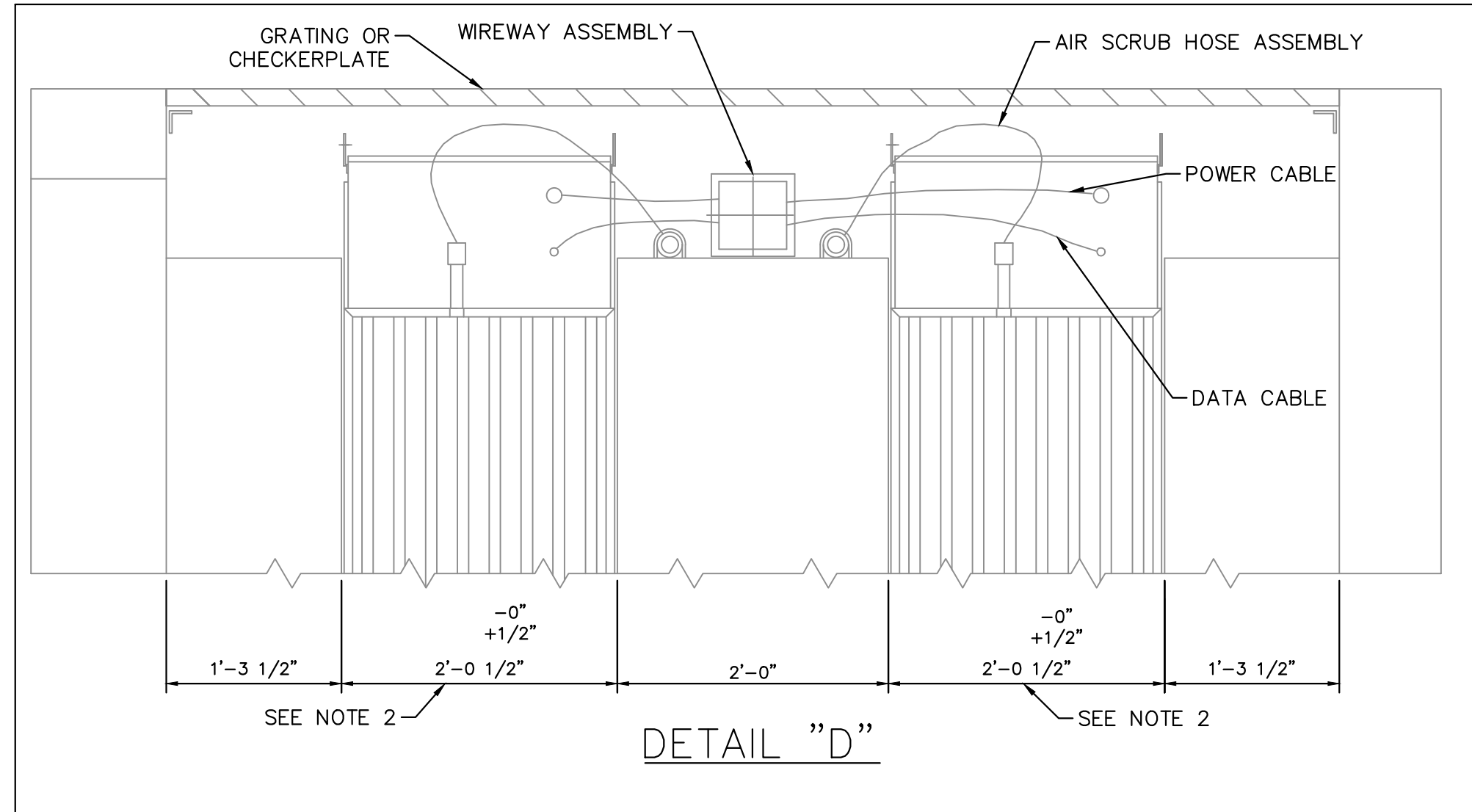
- NOTES**
- CABLES:**
 - POWER** - 3 CONDUCTOR POWER CABLE, 1 PER EACH MODULE. CUT TO LENGTH AND TERMINATED AT PDDC POWER TERMINAL STRIP.
 - DATA** - DATA CABLE WITH DATA CONNECTOR REQUIRES CAUTION WHEN PULLING THROUGH CONDUIT. 3 CONDUCTOR CABLE CUT TO LENGTH & TERMINATE AT PDDC.
 - NOTE:** THIS DIMENSION IS THE MINIMUM WIDTH OF THE CHANNEL. EFFORT MUST BE MADE TO MAINTAIN WIDTH TO ALLOW INSTALLATION OF MODULES WITHOUT INTERFERENCE.
 - WEIR TO MAINTAIN WATER LEVEL BETWEEN 57.5" AND 61".
 - PROPOSED VERTICAL MODULES SHALL BE INSTALLED AT THE SAME ELEVATION AS THE EXISTING MODULES.
 - CONTRACTOR TO REMOVE EXISTING ULTRAVIOLET DISINFECTION EQUIPMENT PER CHANNEL PRIOR TO INSTALLATION OF NEW EQUIPMENT.
 - CONTRACTOR TO CONFIRM UV CHANNEL DIMENSIONS.

DEPTH, AND TOLERANCES WITH UV MANUFACTURER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT, TO THE ENGINEER, SHOP DRAWINGS SHOWING THE FINAL LAYOUT AND DIMENSIONS PRIOR TO CONSTRUCTION.

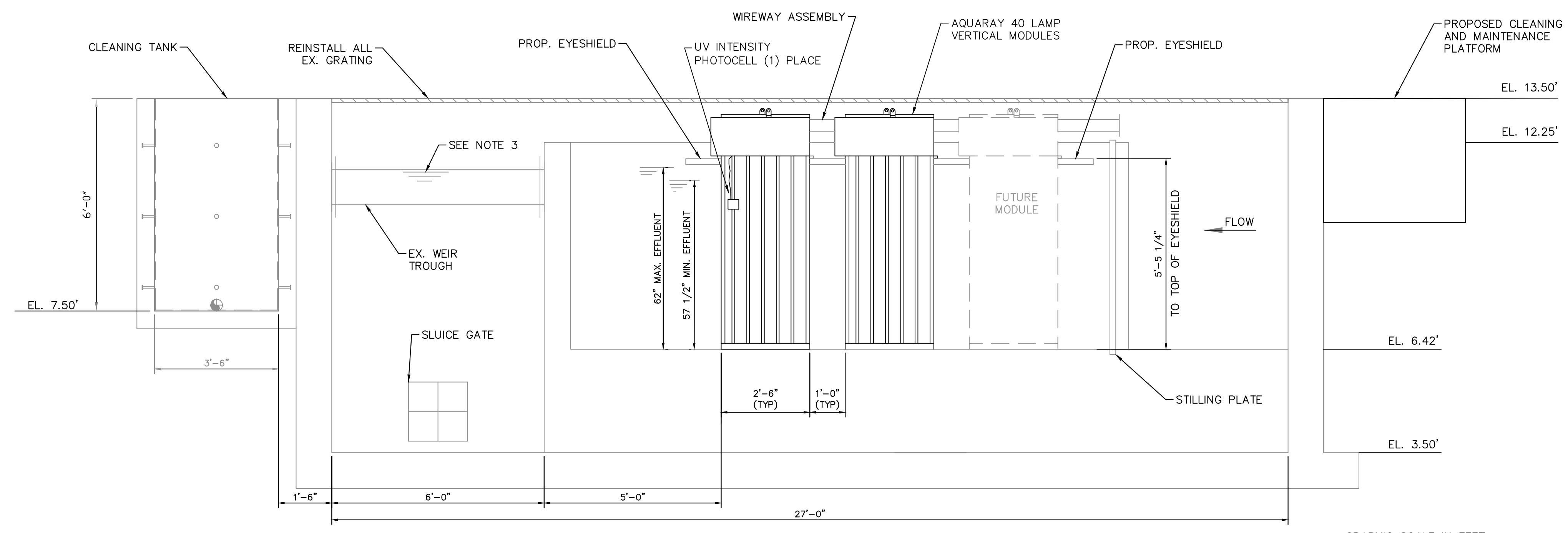
- REFERENCE CORRESPONDING SPECIFICATION FOR ULTRAVIOLET DISINFECTION EQUIPMENT.
- CRANE NOT SHOWN FOR CLARITY. REPLACE REMOVED CHAIN HOIST AND TROLLEY WITH 1/2 TON CHAIN HOIST AND TROLLEY



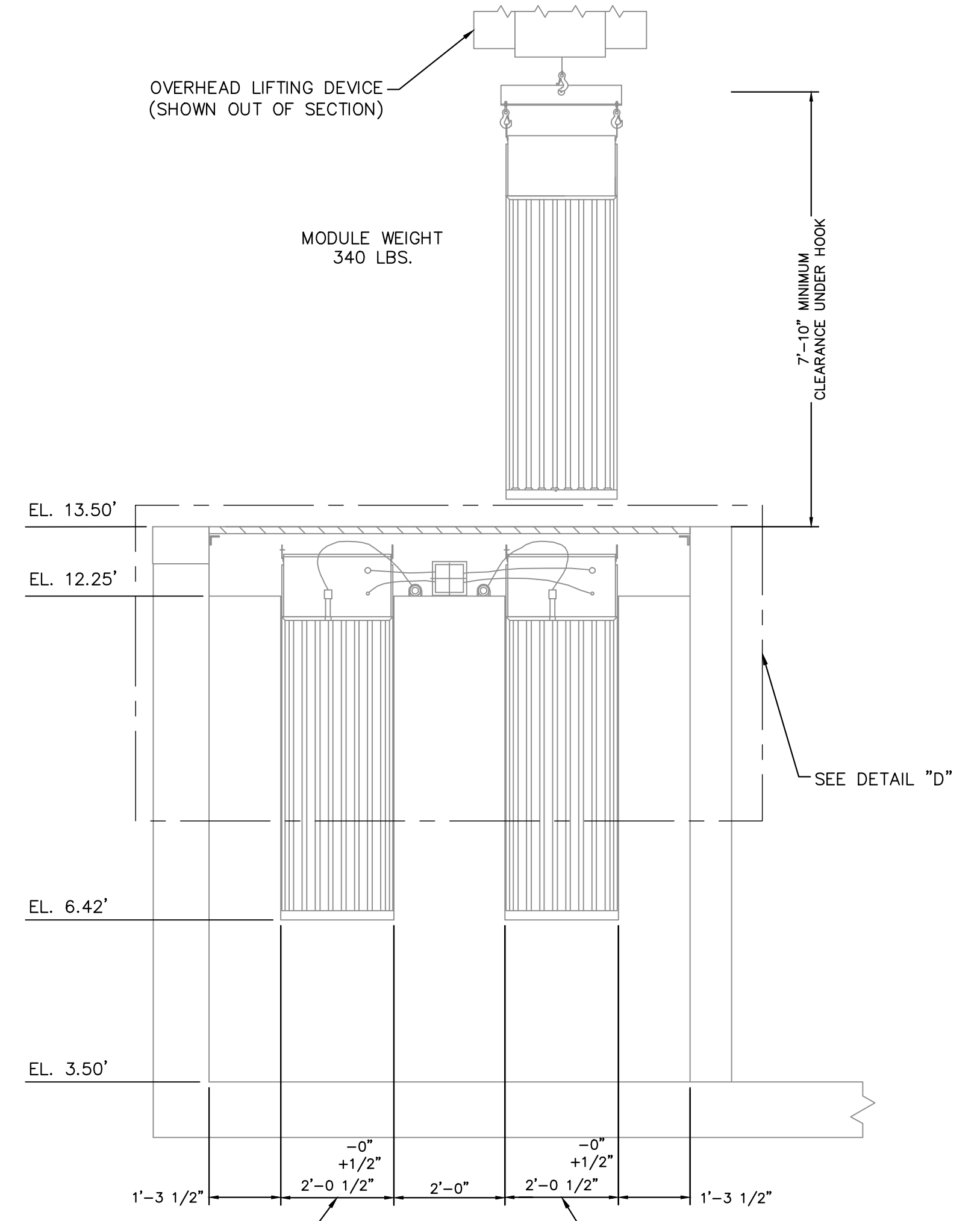
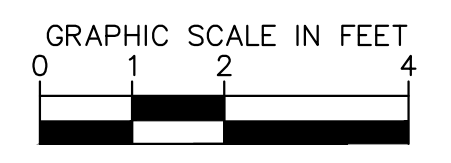
DETAIL "C"



DETAIL "D"



SECTION "A-A"



SECTION "B-B"

N.T.S.

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JAMIE H. WEIST
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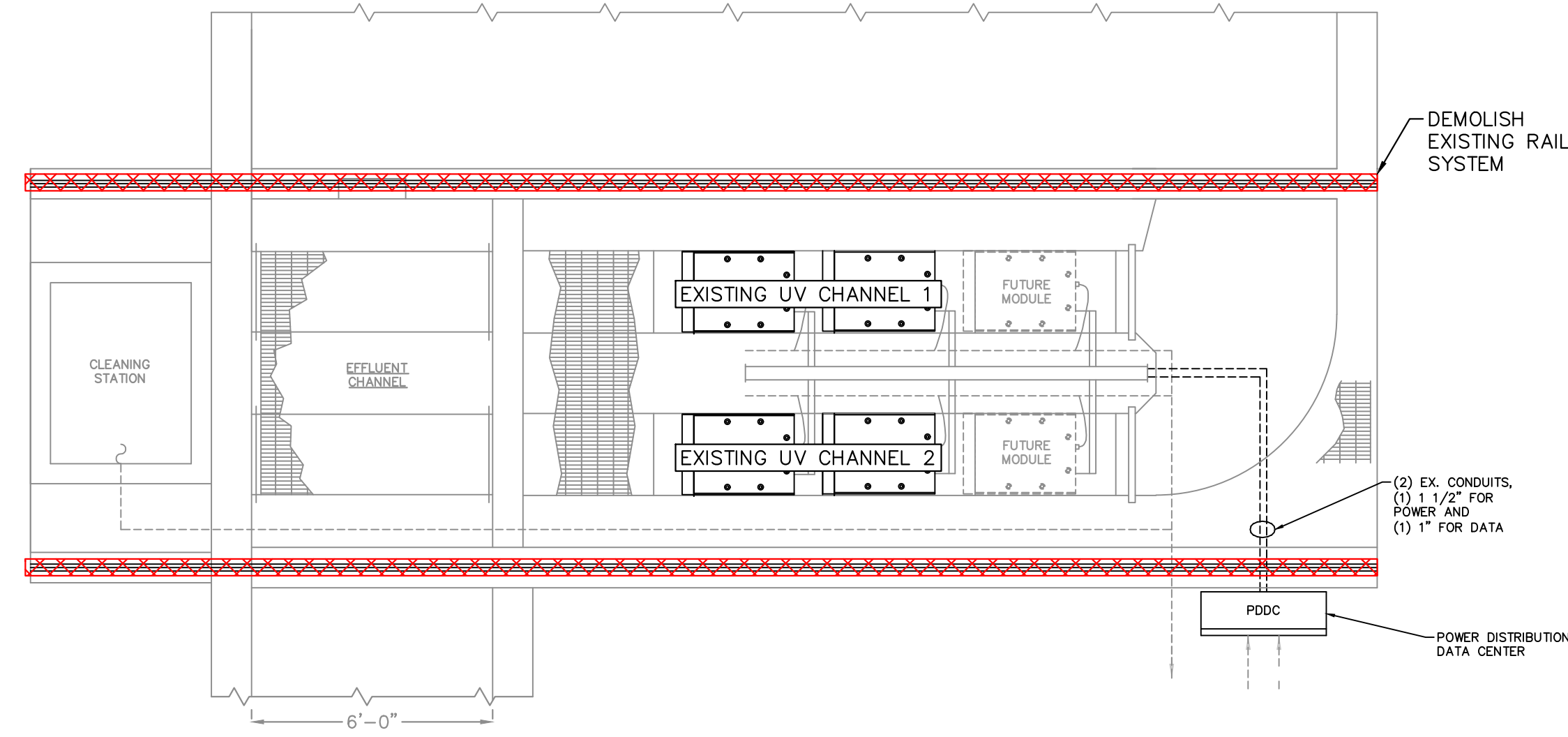
KHA PROJECT	117513002
DATE	DEC. 2023
SCALE	AS SHOWN
DESIGNED BY	JDV
DRAWN BY	KTN
CHECKED BY	JHW

PROPOSED UV DISINFECTION
 DETAIL

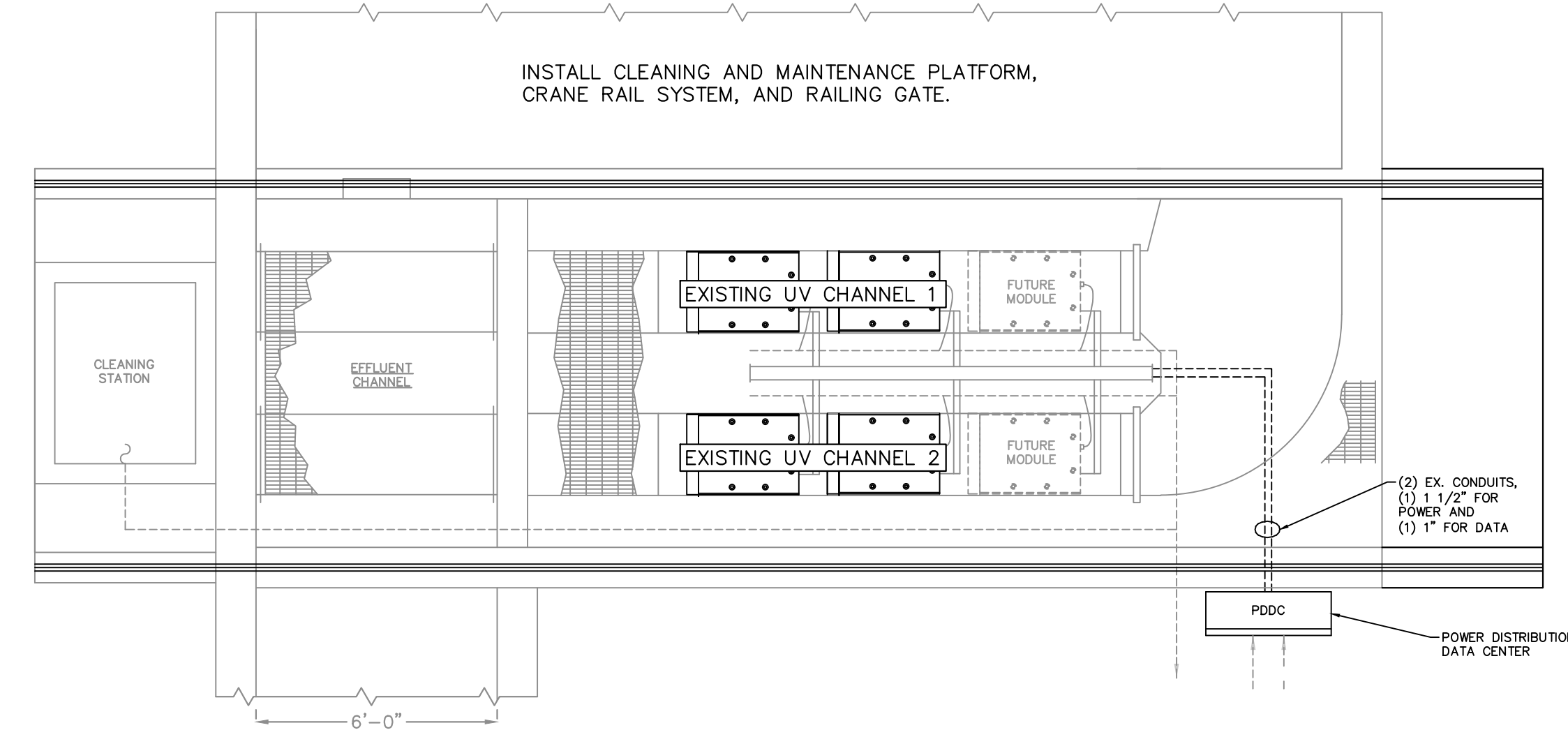
FRANKLIN WASTEWATER
 TREATMENT PLANT UV
 DISINFECTION
 REPLACEMENT
 PREPARED FOR
 CITY OF FRANKLIN, VIRGINIA

SHEET NUMBER
 C-05

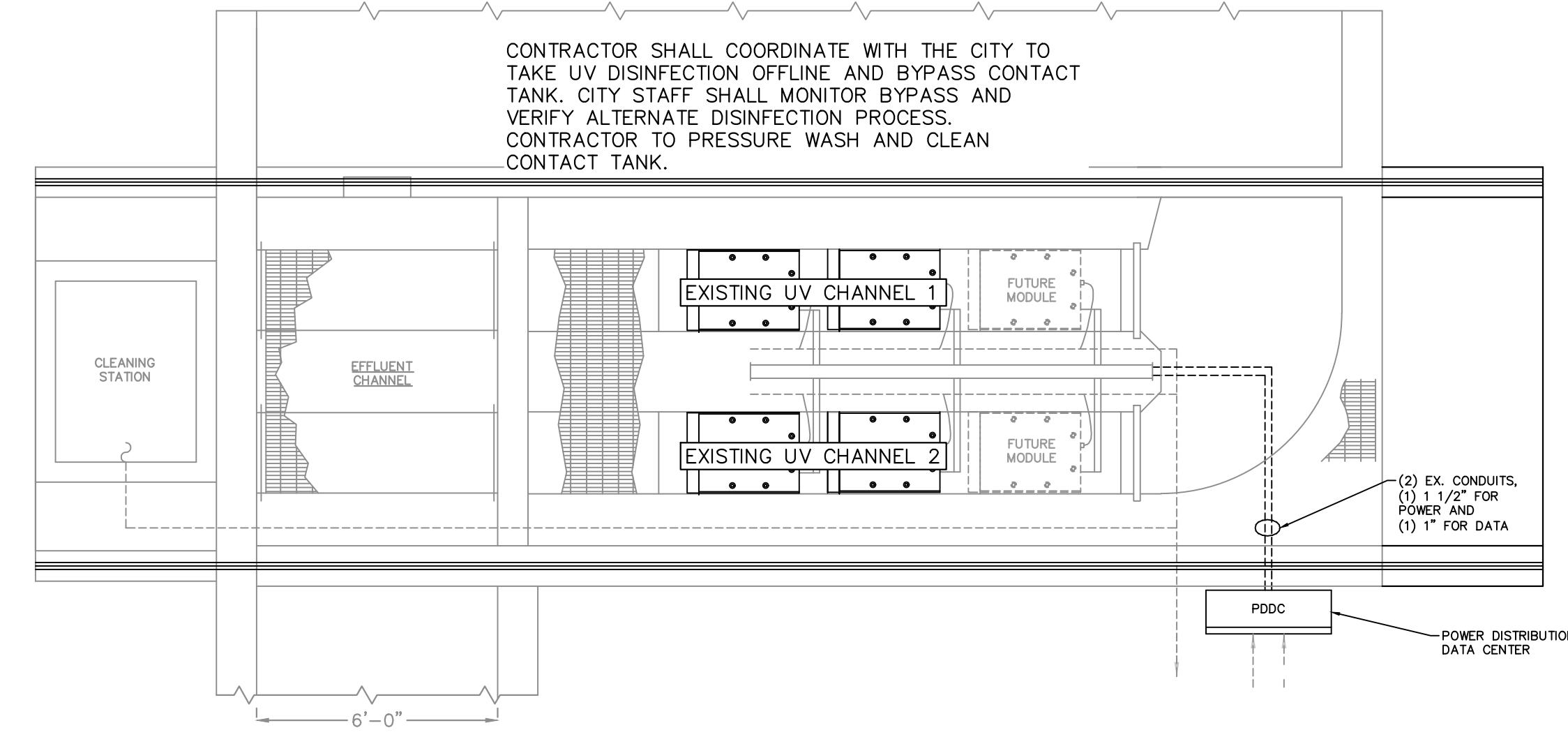
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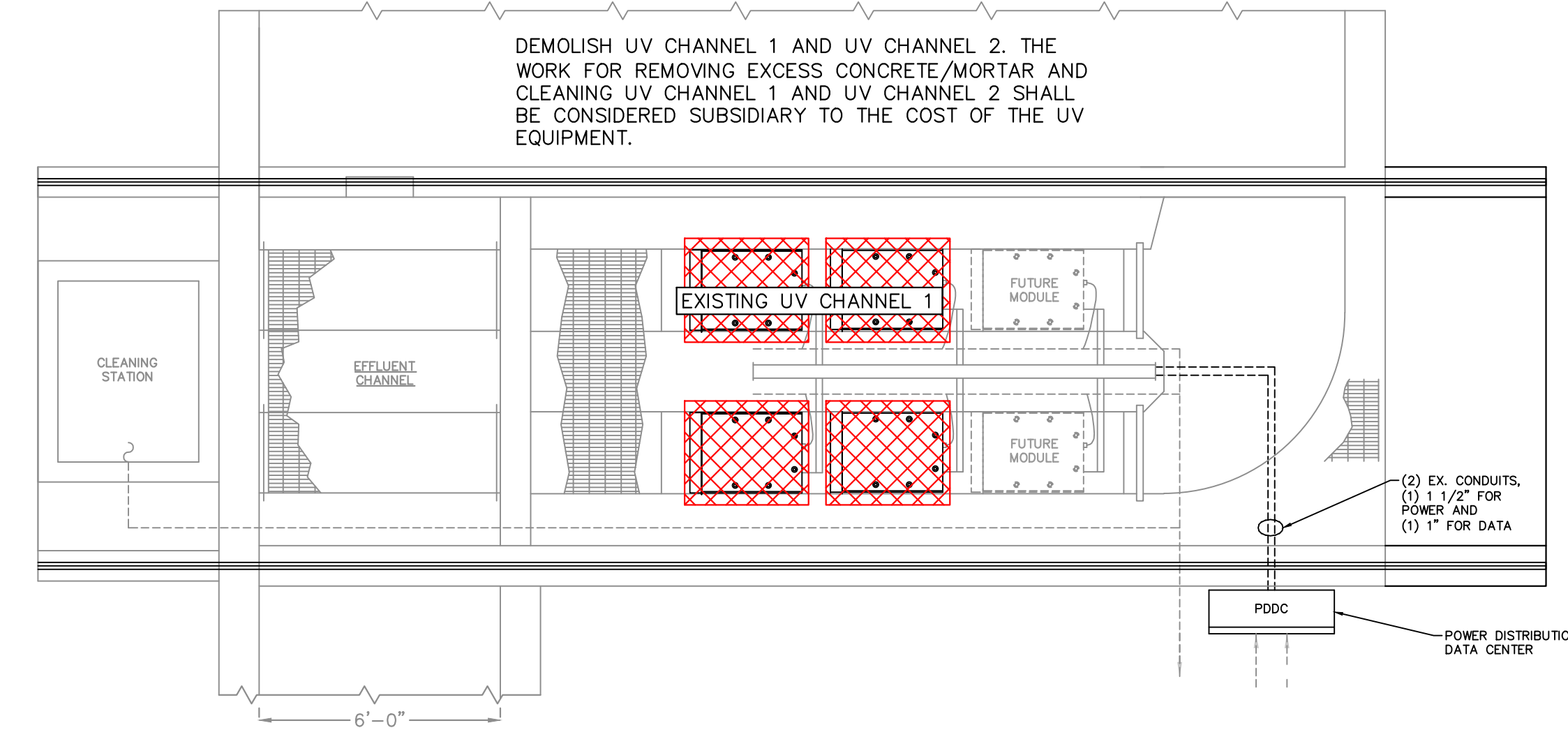
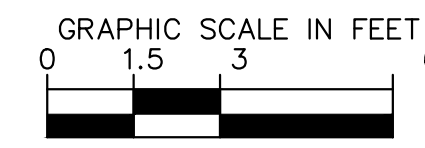
UV REPLACEMENT PROPOSED SEQUENCING
PLAN PHASE 1



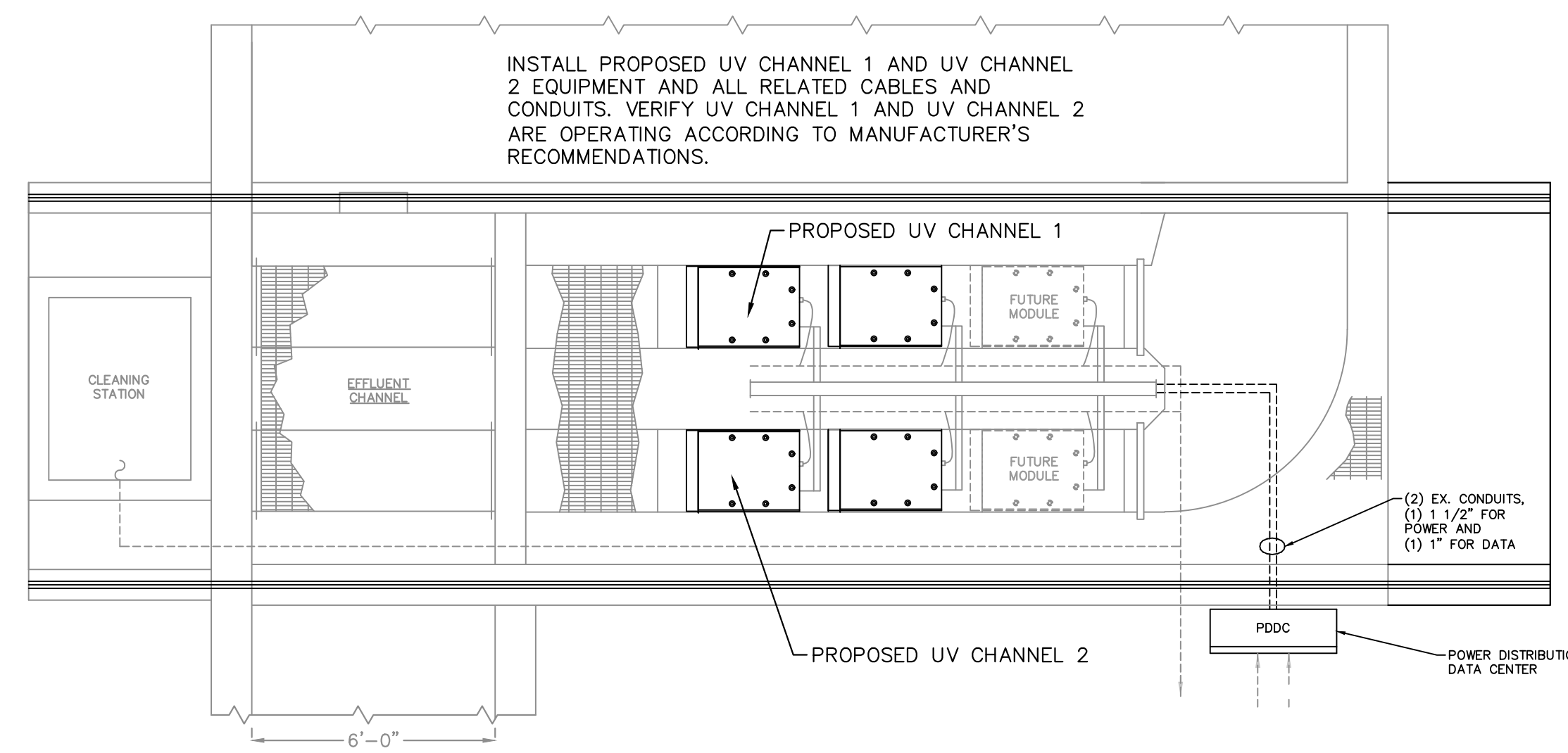
UV REPLACEMENT PROPOSED SEQUENCING
PLAN PHASE 2



UV REPLACEMENT PROPOSED SEQUENCING
PLAN PHASE 3



UV REPLACEMENT PROPOSED SEQUENCING
PLAN PHASE 4



UV REPLACEMENT PROPOSED SEQUENCING
PLAN PHASE 5

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COMMONWEALTH OF VIRGINIA
Jamie H. Weist
 JAMIE H. WEIST
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 12/27/23
 PROFESSIONAL ENGINEER

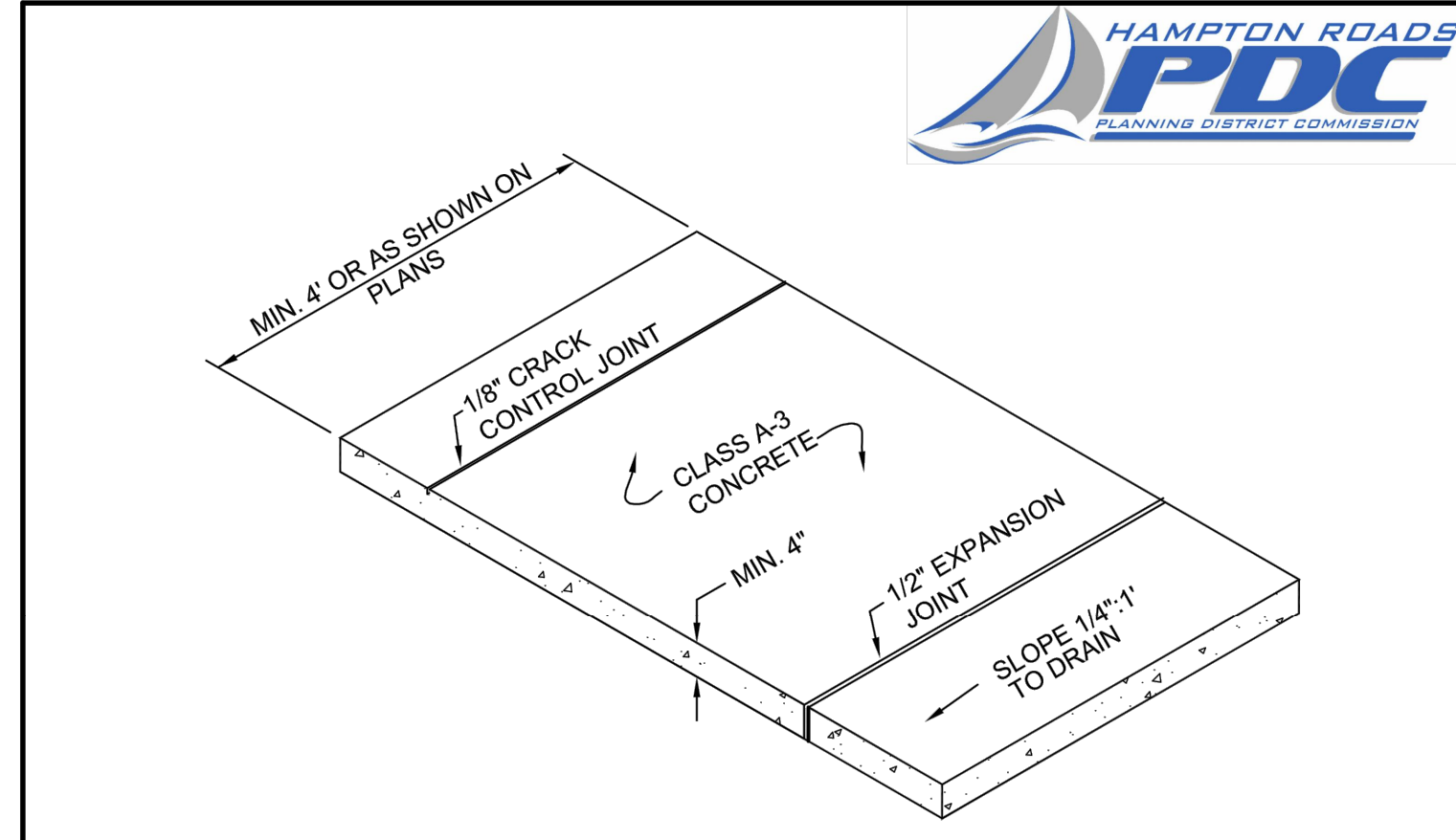
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CHECKED BY	GST

FRANKLIN WASTEWATER
 TREATMENT PLANT UV
 DISINFECTION
 REPLACEMENT
 PREPARED FOR
 CITY OF FRANKLIN

UV DISINFECTION
 CONSTRUCTION SEQUENCING
 PLAN

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ITEM	PART NUMBER	TITLE	MATERIAL
1	631947	ADHESIVE, HILTI HIT-RE 500 V3 EPOXY OR EQ.	EPOXY, HILTI
2	610257	ANCHOR, HILTI KB3, 1/4 X 3 1/4	
3	638981	AXS3 LAP FLASHING, TREADMAX	FR-PE (CHARCOAL GRAY)
4	638579	AXS3 STRUT FLASH	FR-PE (YELLOW)
5	638579	AXS3 STRUT FLASH	FR-PE (YELLOW)
6	638980	AXS3 LOCK CHANNEL, TREADMAX	FR-PE (CHARCOAL GRAY)
7	638980	AXS3 LOCK CHANNEL, TREADMAX	FR-PE (CHARCOAL GRAY)
8	206622	AXS3 LOCK CHNL, TREADMAX, DRL	FR-PE (CHARCOAL GRAY)
9	206622	AXS3 LOCK CHNL, TREADMAX, DRL	FR-PE (CHARCOAL GRAY)
10	637336	BEAM SEAT, 8 X 12 (TYPE E)	316SS
11	624811	BOLT, HEX, 5/8-11 X 2 1/4 LG	316SS
12	630135	CHANNEL NUT, SPRING, 1/4-20	
13	638773	DECK AXS3 PANEL IS TREADMAX	FR-PE (CHARCOAL GRAY)
14	638799	DECK AXS3 PANEL IS TREADMAX	FR-PE (CHARCOAL GRAY)
15	206621	DECK AXS3 STRUT FLASH	FR-PE (YELLOW)
16	638875	GASKET, NEOPRENE, 1 X 3/16	NEOPRENE
17	638875	GASKET, NEOPRENE, 1 X 3/16	NEOPRENE
18	638386	GASKET, NEOPRENE, 1/2 X 3/16	NEOPRENE
19	638386	GASKET, NEOPRENE, 1/2 X 3/16	NEOPRENE
20	638386	GASKET, NEOPRENE, 1/2 X 3/16	NEOPRENE
21	610328	NUT, HEX, 5/8-11	316SS
22	611413	ROD, THREADED, 5/8-11 X 7	316SS
23	638868	SCREW, PHILLIPS PAN HEAD, 1/4-20 X 0.75	316SS
24	638476	SCREW, PHILLIPS PAN HEAD, 1/4-20 X 1.25	316SS
25	638477	SCREW, PHILLIPS PAN HEAD, 1/4-20 X 2.5	316SS
26	635484	SCREW, SELF-TAPPING, 1/4 X 1 1/2	316SS
27	629360	STRUT, 1 5/8	FR-PE (CHARCOAL GRAY)
28	629360	STRUT, 1 5/8	FR-PE (CHARCOAL GRAY)
29	629360	STRUT, 1 5/8	FR-PE (CHARCOAL GRAY)
30	629360	STRUT, 1 5/8	FR-PE (CHARCOAL GRAY)
31	605669	TUBE, FLANGED, 18F17	FR-VE (BEIGE)
32	638303	WASHER, CUP, 1/4" X 2" DIA.	304SS
33	611016	WASHER, FLAT, 1/4	316SS
34	610371	WASHER, FLAT, 5/8	316SS
35	610372	WASHER, LOCK, 5/8	316SS



- NOTES:**
- CRACK CONTROL JOINTS TO BE PROVIDED AT INTERVALS EQUAL TO THE WIDTH OF THE SIDEWALK BY SAWING, SCORING, "LEAVE-IN" INSERTS, OR CUTTER PLATES AND SHALL EXTEND INTO THE CONCRETE TO 1/4 OF THE DEPTH.
 - EXPANSION JOINTS TO BE INSTALLED AT INTERVALS NOT EXCEEDING 50', AND AT JUNCTION POINTS OF CURBS AND ENTRANCES, AND ON BOTH SIDES OF ALL SIDEWALK SECTIONS CONTAINING UTILITIES. PREMOLDED, 1/2" JOINT FILLER IS TO BE USED EXTENDING FROM BOTTOM OF SLAB TO 1/4" OF ITS TOP SURFACE.
 - AS SOON AS CONCRETE WILL NOT SLUMP, FACE FORMS ARE TO BE REMOVED, IRREGULARITIES REMOVED, A LIGHT BROOM FINISH GIVEN, AND A LIQUID MEMBRANE SEAL OR OTHER APPROVED CURING MEDIUM APPLIED.
 - SIDEWALKS ACROSS ENTRANCES SHALL HAVE A DEPTH OF SEVEN INCHES (7") WITH A MAXIMUM SLOPE OF 1":12".
 - THE CONTRACTOR SHALL PREVENT THE TEMPERATURE AT THE SURFACE OF THE CONCRETE FROM FALLING BELOW 40°F DURING THE FIRST 72 HOURS IMMEDIATELY FOLLOWING CONCRETE PLACEMENT. PROTECTIVE MATERIAL SHALL BE LEFT IN PLACE FOR AN ADDITIONAL 48 HOURS IF FREEZING AIR TEMPERATURES ARE EXPECTED TO CONTINUE.

REFERENCE	CATEGORY	DATE	SHEET No.	DETAIL No.
200,502	CONCRETE ITEMS	6/16	1 OF 1	CI.09

ITEM	QTY	STOCK NUMBER	Part List DESCRIPTION
1	4		4-POST SHELTER - COLUMN ASSEMBLY
2	2		4-POST SHELTER - TRUSS ASSEMBLY
5	8		4-POST SHELTER - ROOF PANEL - FULL X 50in
6	2		4-POST SHELTER - ROOF PANEL CUT - 50in X 24in WIDE
7	2		4-POST SHELTER - DROP CAP - LEFT
8	2		4-POST SHELTER - DROP CAP - RIGHT
3	3		4-POST SHELTER - ROOF FRAMING TUBE - 3 X 3 X 3/16 X 114in
4	6		4-POST SHELTER - PERLIN TUBE - 3 X 2 X 120 WALL X 114in
9	1		4-POST SHELTER - RIDGE CAP X 10'-0\"/>

NOTES: ALL DIMENSIONS AND ELEVATIONS SHOWN ARE NOMINAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE ON-SITE CONTRACTOR OR ROMTEC UTILITIES CUSTOMER (NOT ROMTEC UTILITIES) TO VERIFY THE ACCURACY OF ANY CRITICAL DIMENSIONS OR ELEVATIONS PRIOR TO SETTING OR INSTALLING ANY EQUIPMENT.

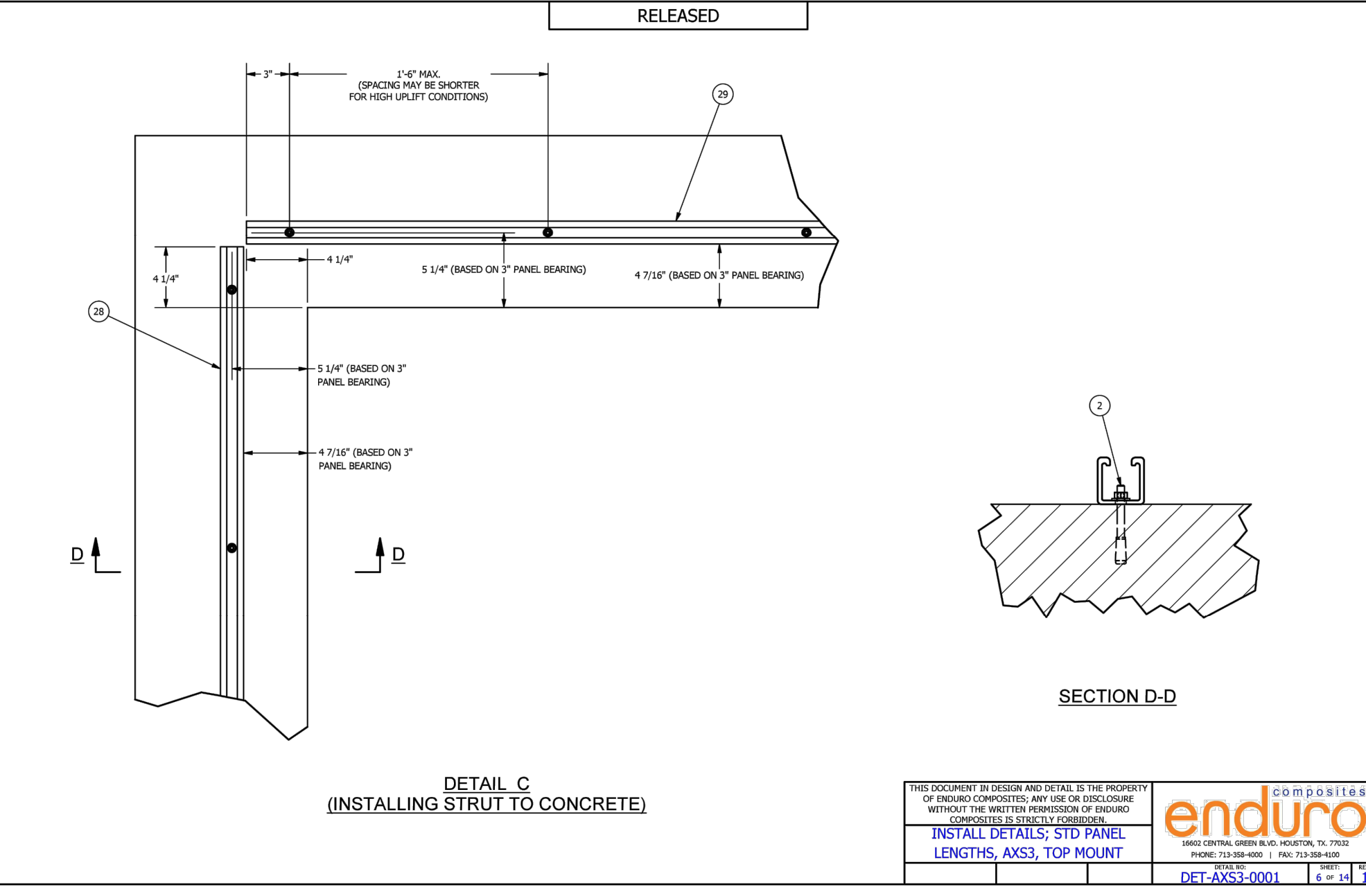
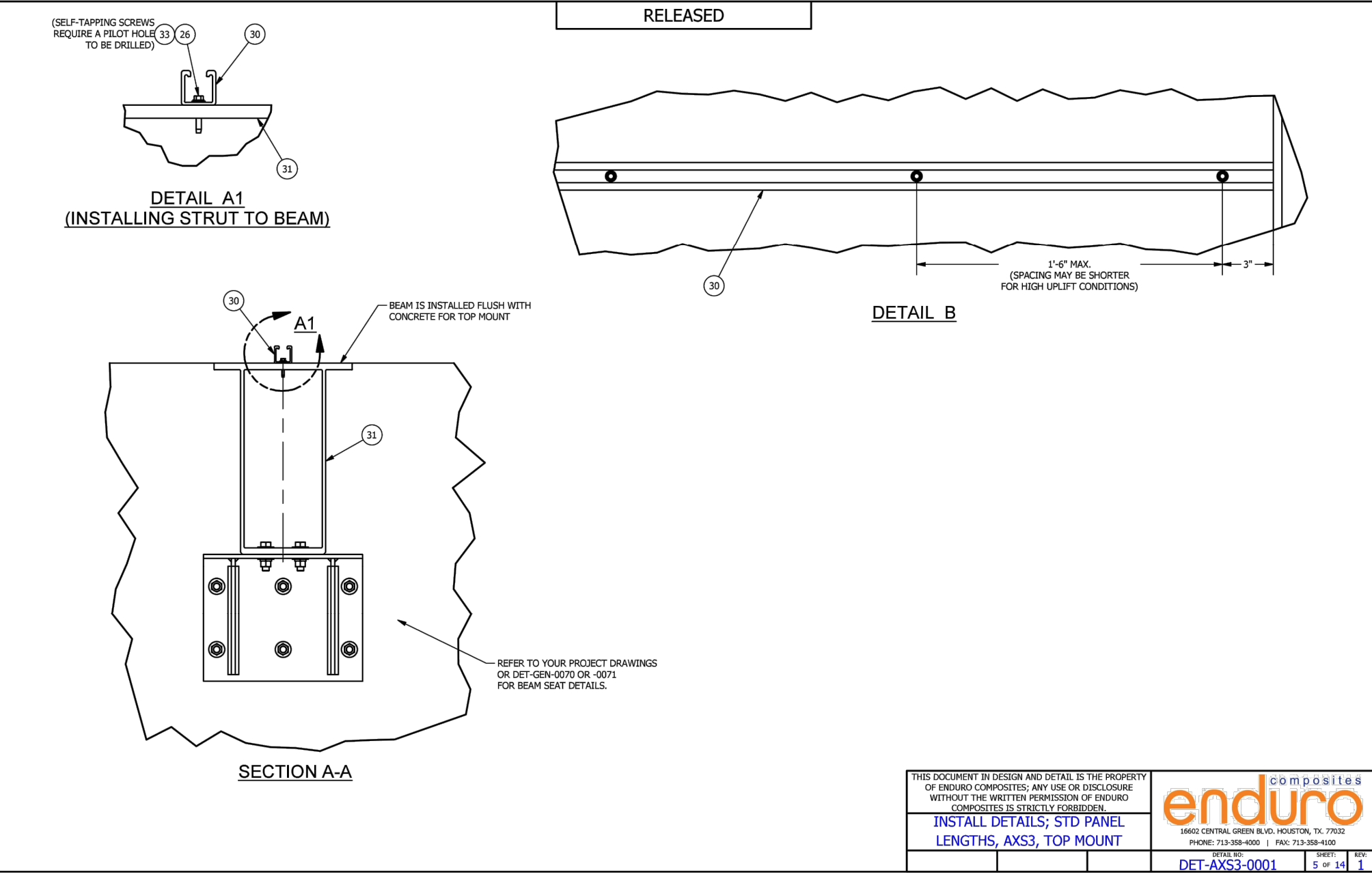
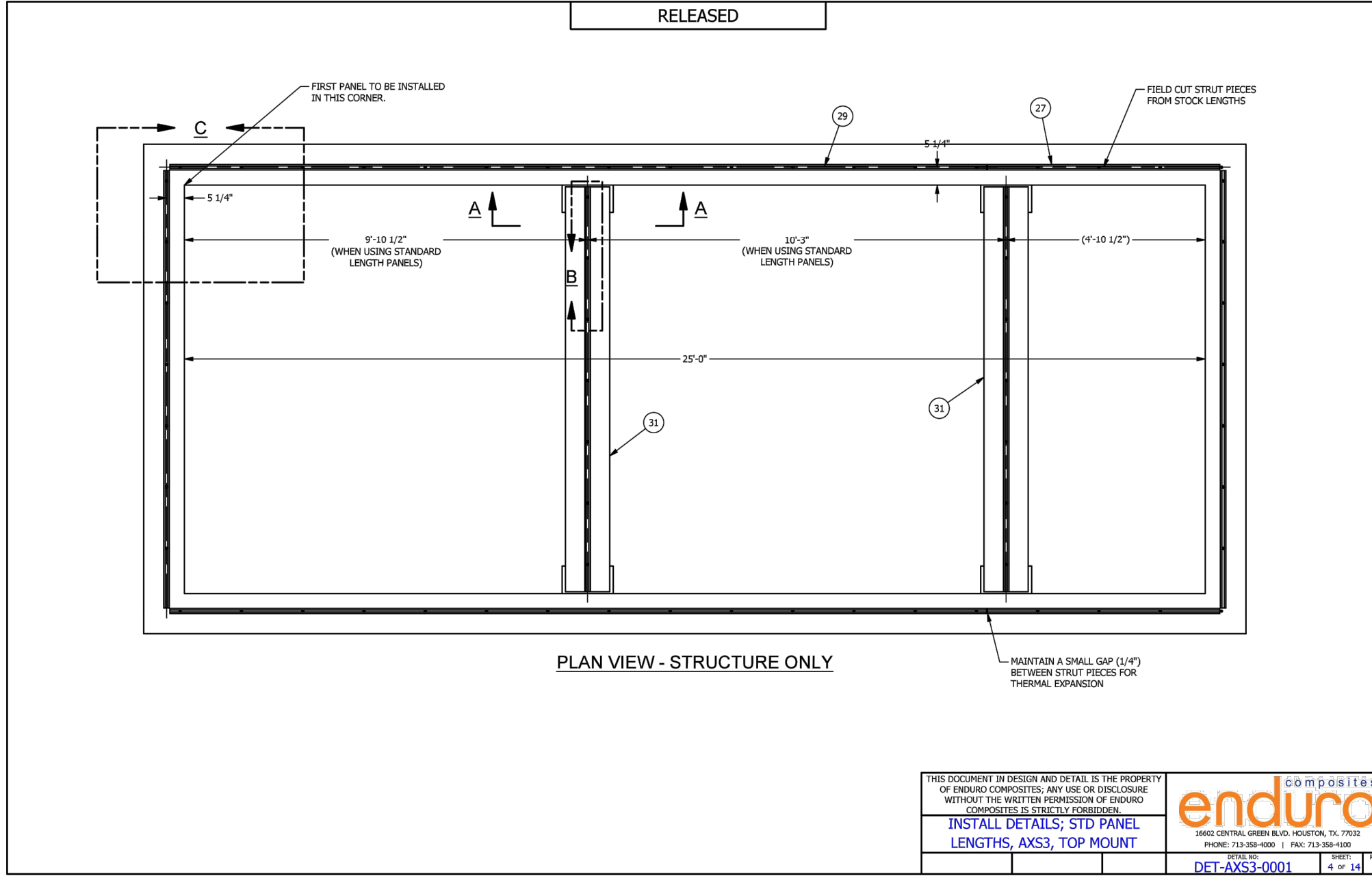
ROMTEC UTILITIES
 10000 NE 10TH AVE
 ROSSBURG, OREGON 97140
 (503) 496-9678
 FAX (503) 496-9684

COMPONENT DRAWING

WET WELL CONTROLS
 4-POST 8 X 10 SHELTER ASSY

SHEET
1 OF 1

JOB NUMBER
 RIMC
 0000



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 PHONE: 713-288-8888 FAX: 713-288-8889
 WWW.ENDUROCOMPOSITES.COM

INSTALL DETAILS; STD PANEL LENGTHS, AXS3, TOP MOUNT
 DET-AXS3-0001 1/4 x 1 1/2

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INSTALL DETAILS; STD PANEL LENGTHS, AXS3, TOP MOUNT
 DET-AXS3-0001 1/4 x 1 1/2

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INSTALL DETAILS; STD PANEL LENGTHS, AXS3, TOP MOUNT
 DET-AXS3-0001 1/4 x 1 1/2

FRANKLIN WASTEWATER TREATMENT PLANT UV DISINFECTION REPLACEMENT

PREPARED FOR
 CITY OF FRANKLIN VIRGINIA

SHEET NUMBER
C-07

KHA PROJECT
 117513002

DATE
 DEC. 2023

SCALE AS SHOWN

DESIGNED BY JUV
 DRAWN BY KTN
 CHECKED BY JHW

PLANT DETAILS (1)

Kimley Horn

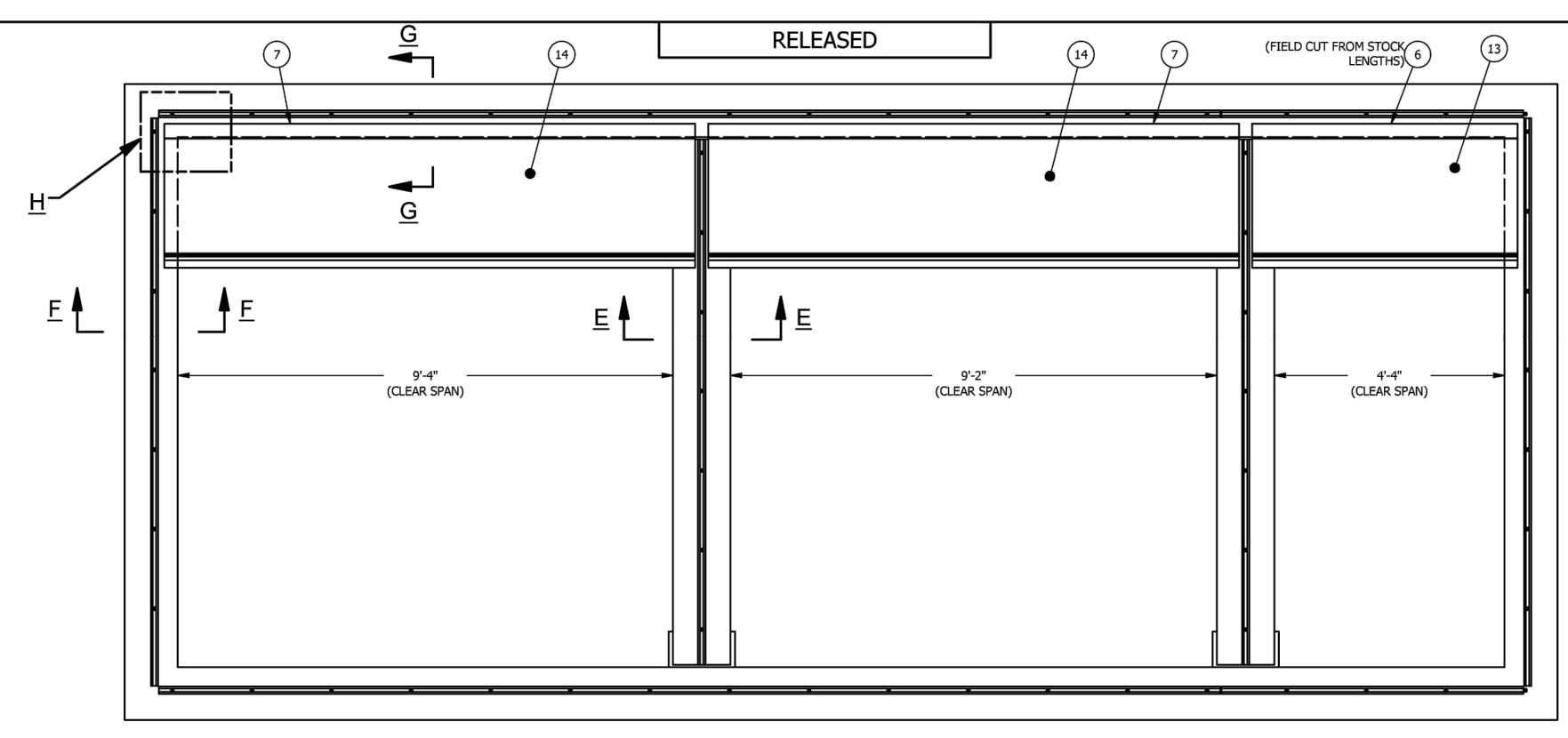
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COMMONWEALTH OF VIRGINIA
JAMIE H. WEIST
 Lic. No. 22891
 12/27/23
 PROFESSIONAL ENGINEER

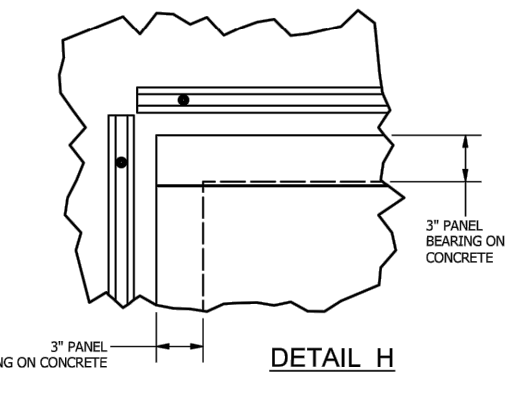
REVISIONS

No.	DATE	BY

Plotted By: D:\Info, Nabil Sheet Set: kha - Layout: C-08 PLANT DETAILS - December 27, 2023 09:24:42am K:\NPN_Civil\17513002 - WWTP UV Improvements\CADD\PlanSheets\C-04 PLANT DETAILS.dwg
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PLAN VIEW - STRUCTURE WITH FIRST ROW OF PANELS INSTALLED



DETAIL H

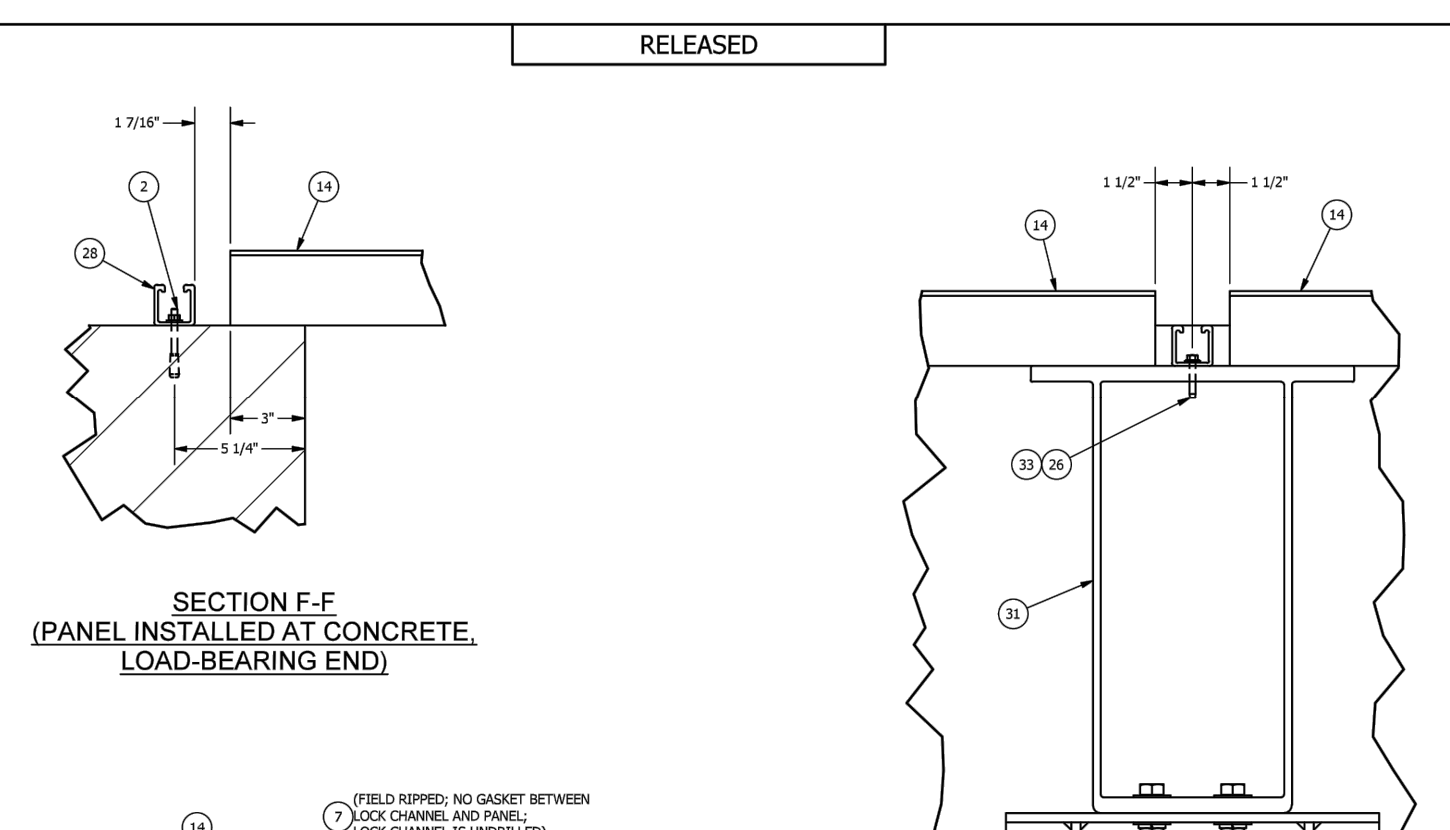
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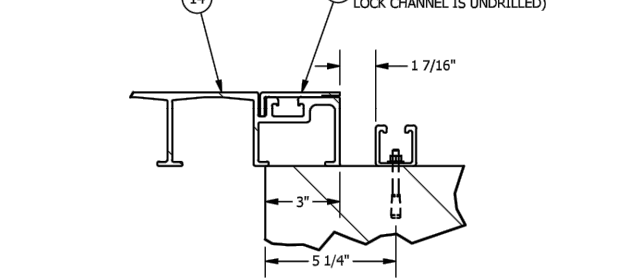
1840 CENTRAL GREEN BLVD., HOUSTON, TX, 77058
PHONE: 281-368-4400 | FAX: 281-368-4408
WWW.ENDUROCOMPOSITES.COM

INSTALL DETAILS; STD PANEL LENGTHS, AXS3, TOP MOUNT

DET-AXS3-0001 1/1" x 1/1" 1/1" x 1/1"



SECTION F-F (PANEL INSTALLED AT CONCRETE LOAD-BEARING END)



SECTION G-G (PANEL INSTALLED ON CONCRETE NON-LOAD BEARING END, FIRST PANEL WITH RIPPED LOCK CHANNEL)

SECTION E-E (PANEL INSTALLED AT BEAM)

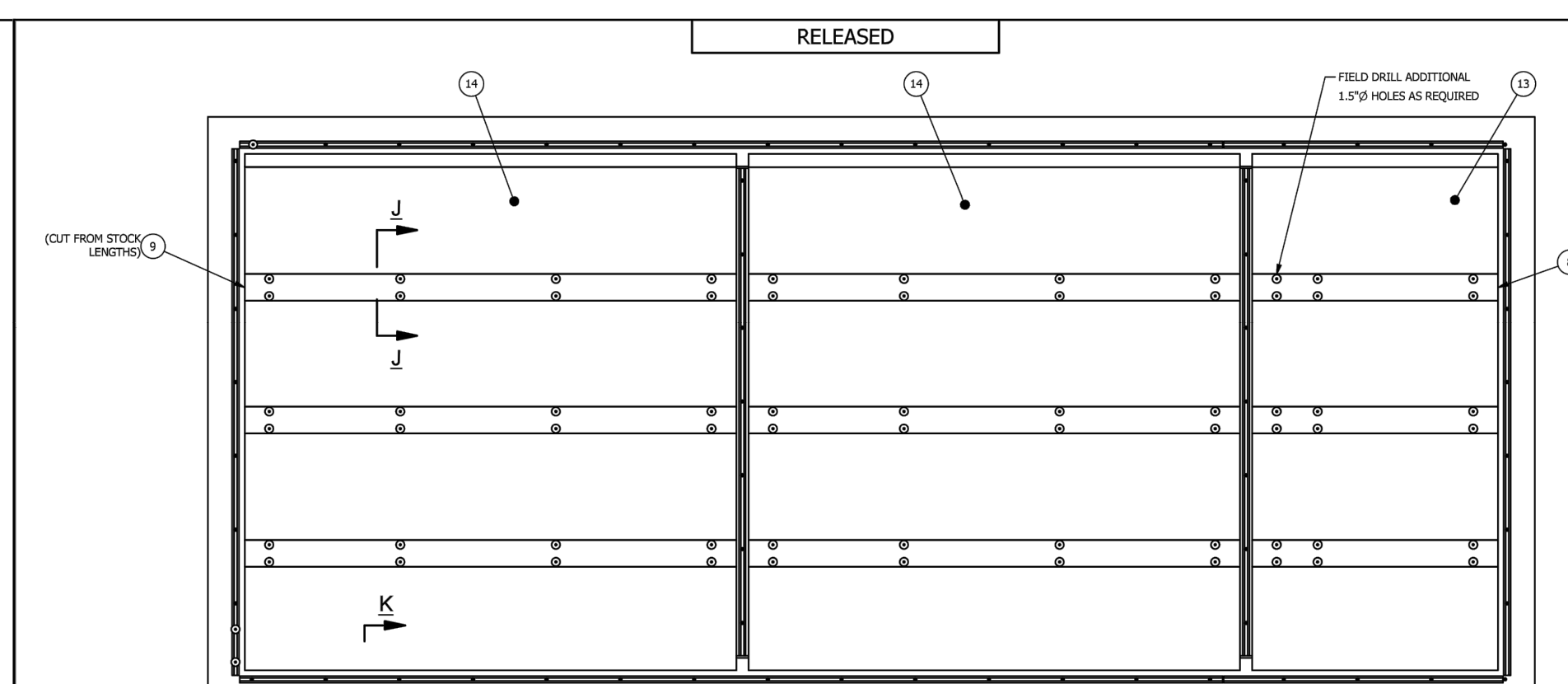
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INSTALL DETAILS; STD PANEL LENGTHS, AXS3, TOP MOUNT

DET-AXS3-0001 1/1" x 1/1" 1/1" x 1/1"



PLAN VIEW - ALL PANELS AND LOCK CHANNELS INSTALLED, NO FLASHING

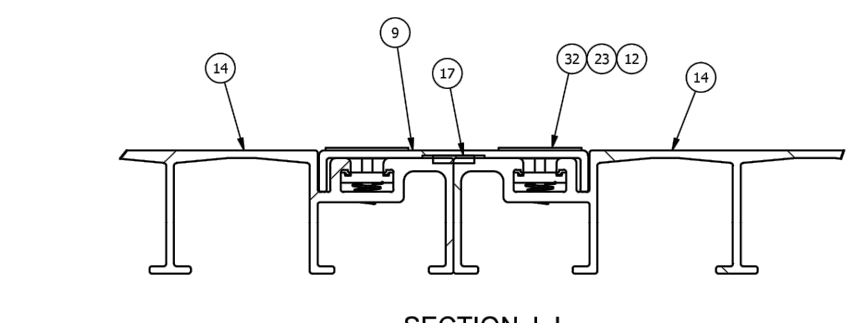
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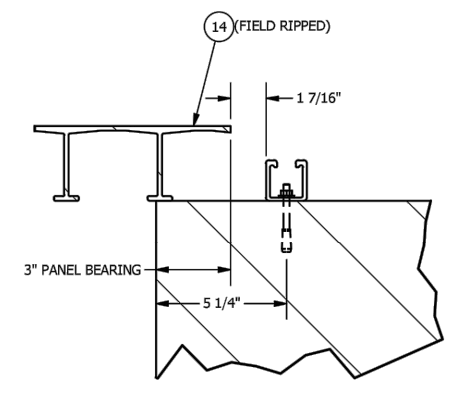
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WWW.ENDUROCOMPOSITES.COM

INSTALL DETAILS; STD PANEL LENGTHS, AXS3, TOP MOUNT

DET-AXS3-0001 1/1" x 1/1" 1/1" x 1/1"



SECTION J-J (LOCK CHANNEL AT PANEL-TO-PANEL CONNECTION)



SECTION K-K (PANEL INSTALLED ON CONCRETE NON-LOAD BEARING END, RIPPED PANEL)

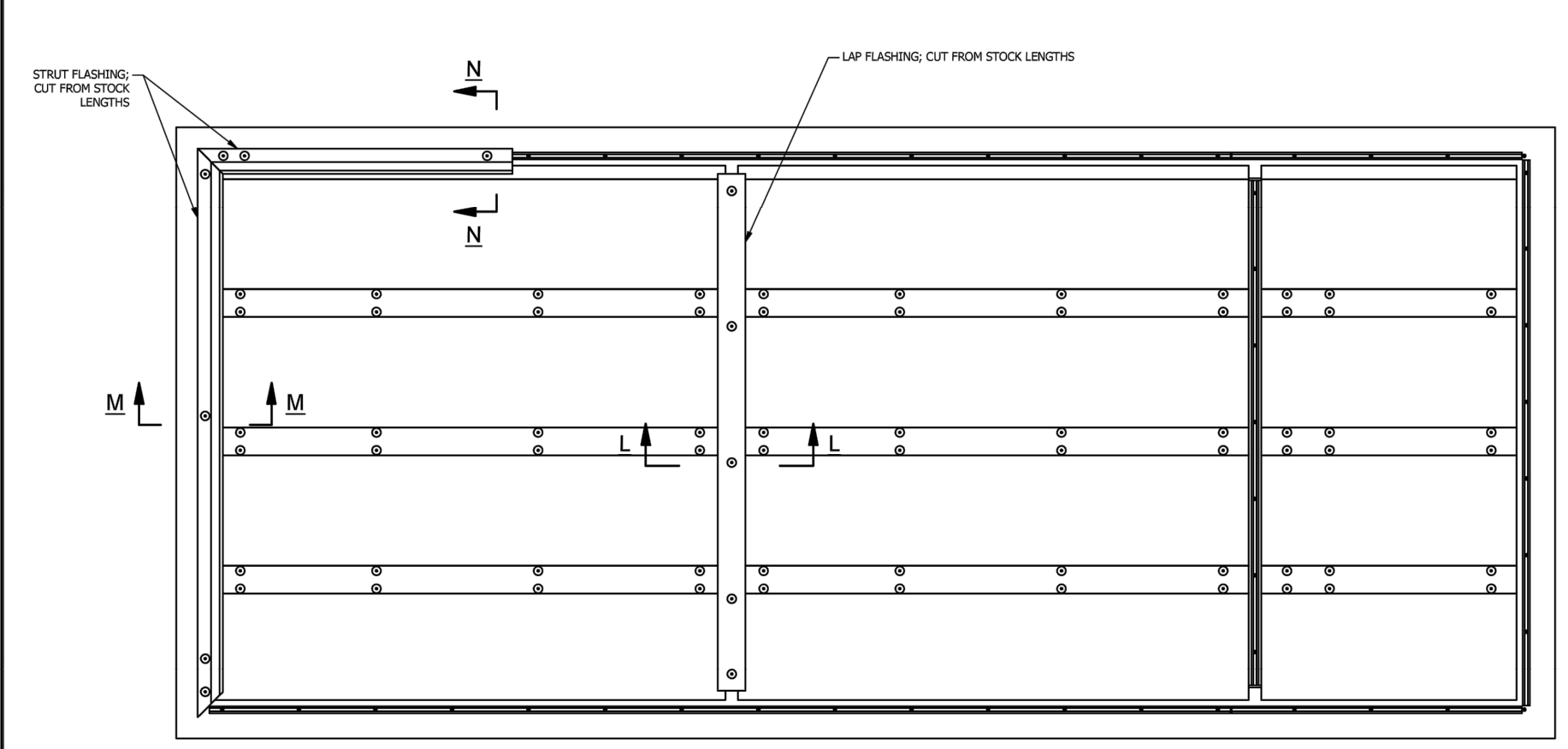
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INSTALL DETAILS; STD PANEL LENGTHS, AXS3, TOP MOUNT

DET-AXS3-0001 1/1" x 1/1" 1/1" x 1/1"



PLAN VIEW - INITIAL FLASHING INSTALLED

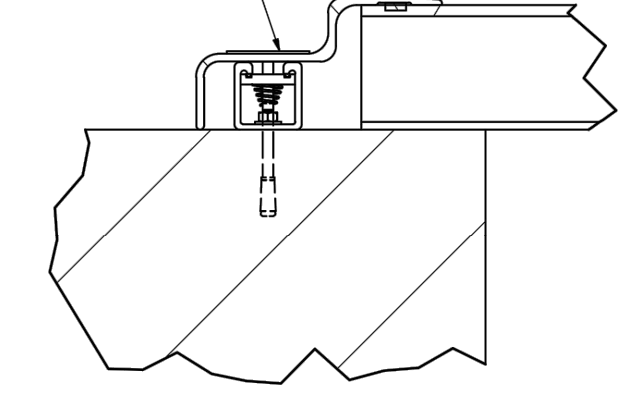
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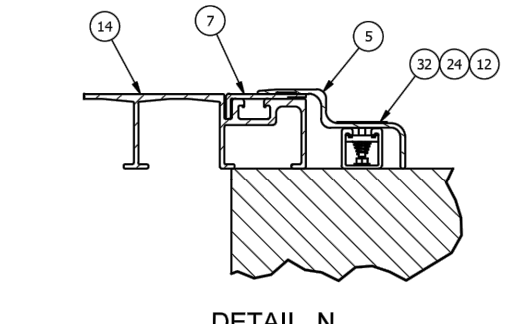
1840 CENTRAL GREEN BLVD., HOUSTON, TX, 77058
PHONE: 281-368-4400 | FAX: 281-368-4408
WWW.ENDUROCOMPOSITES.COM

INSTALL DETAILS; STD PANEL LENGTHS, AXS3, TOP MOUNT

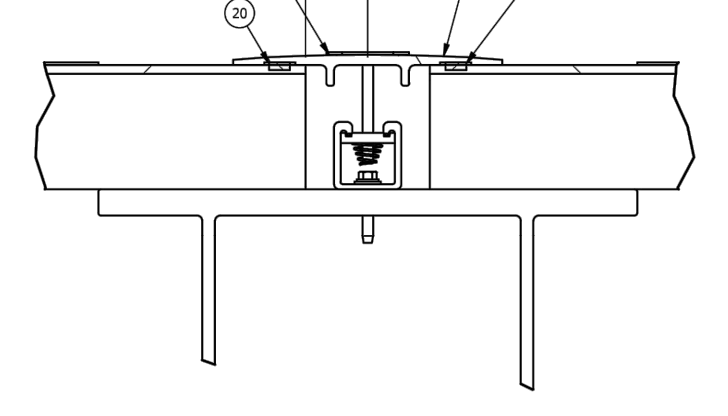
DET-AXS3-0001 1/1" x 1/1" 1/1" x 1/1"



SECTION M-M (STRUT FLASHING INSTALLED, LOAD BEARING PANEL END)



DETAIL N (STRUT FLASHING INSTALLED, NON-LOAD BEARING PANEL END, FULL WIDTH PANEL WITH RIPPED LOCK CHANNEL)



SECTION L-L (LAP FLASHING INSTALLED)

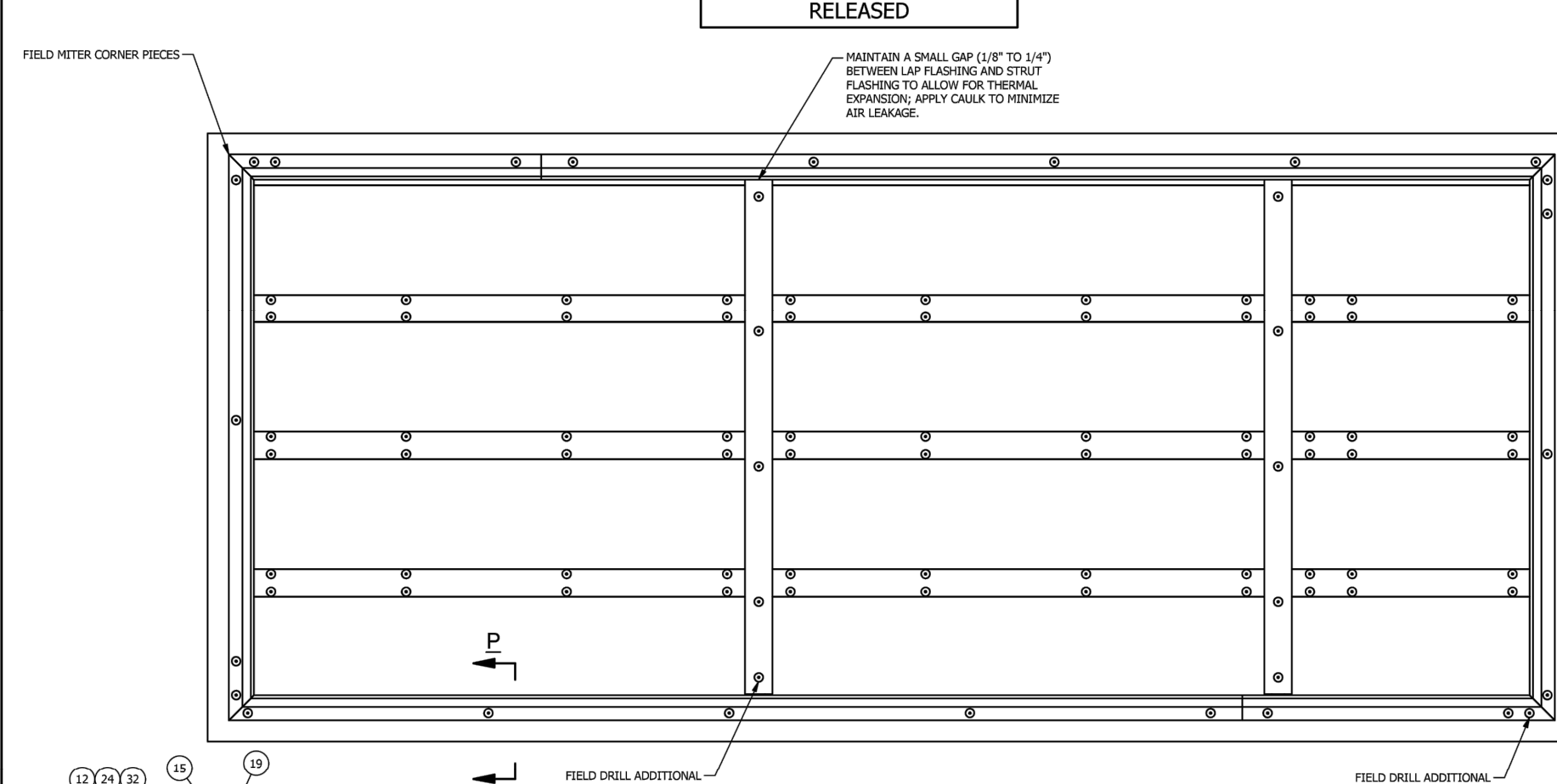
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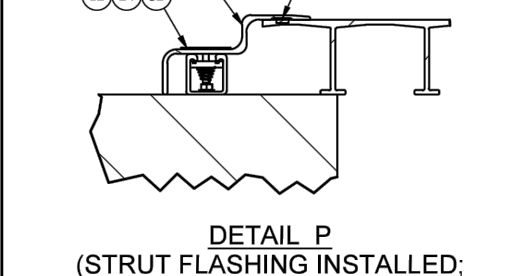
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WWW.ENDUROCOMPOSITES.COM

INSTALL DETAILS; STD PANEL LENGTHS, AXS3, TOP MOUNT

DET-AXS3-0001 1/1" x 1/1" 1/1" x 1/1"



PLAN VIEW - ALL FLASHING INSTALLED



DETAIL P (STRUT FLASHING INSTALLED, NON-LOAD BEARING PANEL END, RIPPED PANEL)

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INSTALL DETAILS; STD PANEL LENGTHS, AXS3, TOP MOUNT

DET-AXS3-0001 1/1" x 1/1" 1/1" x 1/1"

PARTS REFERENCE (REFER TO YOUR PROJECT DRAWINGS FOR A PARTS LIST)			
ITEM	PART NUMBER	TITLE	MATERIAL
1	631947	ADHESIVE, HILTI HIT-RE 500 V3 EPOXY OR EQ.	EPOXY, HILTI
2	610257	ANCHOR/HILTI KB3, 1/4" X 3 1/4"	
3	638981	AXS3 LAP FLASHING, TREADMAX	FR-PE (CHARCOAL GRAY)
4	638579	AXS3 STRUT FLASH	FR-PE (YELLOW)
5	638579	AXS3 STRUT FLASH	FR-PE (YELLOW)
6	638980	AXS3 LOCK CHANNEL, TREADMAX	FR-PE (CHARCOAL GRAY)
7	638980	AXS3 LOCK CHANNEL, TREADMAX	FR-PE (CHARCOAL GRAY)
8	206622	AXS3 LOCK CHNL, TREADMAX, DRL	FR-PE (CHARCOAL GRAY)
9	206622	AXS3 LOCK CHNL, TREADMAX, DRL	FR-PE (CHARCOAL GRAY)
10	637336	BEAM SEAT, 8 X 12 (TYPE E)	316SS
11	624811	BOLT, HEX, 5/8-11 X 2 1/4 LG	316SS
12	630135	CHANNEL NUT, SPRING, 1/4-20	
13	638773	DECK AXS3 PANEL IS TREADMAX	FR-PE (CHARCOAL GRAY)
14	638799	DECK AXS3 PANEL IS TREADMAX	FR-PE (CHARCOAL GRAY)
15	206621	DECK AXS3 STRUT FLASH	FR-PE (YELLOW)
16	638875	GASKET, NEOPRENE, 1 X 3/16	NEOPRENE
17	638875	GASKET, NEOPRENE, 1 X 3/16	NEOPRENE
18	638386	GASKET, NEOPRENE, 1/2 X 3/16	NEOPRENE
19	638386	GASKET, NEOPRENE, 1/2 X 3/16	NEOPRENE
20	638386	GASKET, NEOPRENE, 1/2 X 3/16	NEOPRENE
21	610328	NUT, HEX, 5/8-11	316SS
22	611413	ROD, THREADED, 5/8-11 X 7	316SS
23	638868	SCREW, PHILLIPS PAN HEAD, 1/4-20 X 0.75	316SS
24	638476	SCREW, PHILLIPS PAN HEAD, 1/4-20 X 1.25	316SS
25	638477	SCREW, PHILLIPS PAN HEAD, 1/4-20 X 2.5	316SS
26	635484	SCREW, SELF-TAPPING, 1/4 X 1 1/2	316SS
27	629360	STRUT, 1 5/8	FR-PE (CHARCOAL GRAY)
28	629360	STRUT, 1 5/8	FR-PE (CHARCOAL GRAY)
29	629360	STRUT, 1 5/8	FR-PE (CHARCOAL GRAY)
30	629360	STRUT, 1 5/8	FR-PE (CHARCOAL GRAY)
31	605669	TUBE, FLANGED, 18F17	FR-VE (BEIGE)
32	638303	WASHER, CUP, 1/4" X 2" DIA.	304SS
33	611016	WASHER, FLAT, 1/4	316SS
34	610371	WASHER, FLAT, 5/8	316SS
35	610372	WASHER, LOCK, 5/8	316SS

No.	REVISIONS	DATE	BY

Kimley-Horn

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4525 MAIN STREET, SUITE 1000, VIRGINIA BEACH, VA
PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

COMMONWEALTH OF VIRGINIA
JAMIE H. WEIST
Lic. No. 22891
12/27/23
PROFESSIONAL ENGINEER

KHA PROJECT 117513002
DATE DEC. 2023
SCALE AS SHOWN
DESIGNED BY JDV
DRAWN BY KTN
CHECKED BY JHW

PLANT DETAILS (2)

FRANKLIN WASTEWATER TREATMENT PLANT UV DISINFECTION REPLACEMENT PREPARED FOR CITY OF FRANKLIN VIRGINIA

Plotted By: Djali, Nabil Sheet Set: kha - Layouts-01-STRUCTURAL DETAILS December 27, 2023 09:24:42am K:\NPN_Civil\117513002 - WWP UV Improvements\CADD\PlanSheets\G-04 PLANT DETAILS.dwg
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TITLE
AS SHOWN

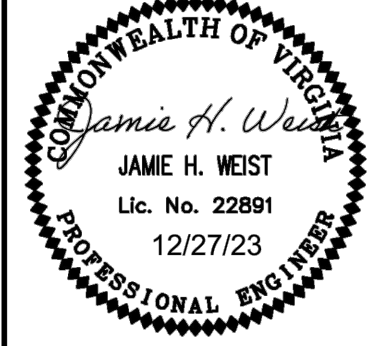
KEY
ASC

SHEET NUMBER
C-07

FRANKLIN WASTEWATER
TREATMENT PLANT UV
DISINFECTION
REPLACEMENT
PREPARED FOR
CITY OF FRANKLIN VIRGINIA

STRUCTURAL DETAILS

KHA PROJECT
117513002
DATE
DEC. 2023
SCALE AS SHOWN
DESIGNED BY JDT
DRAWN BY JDT
CHECKED BY ASC

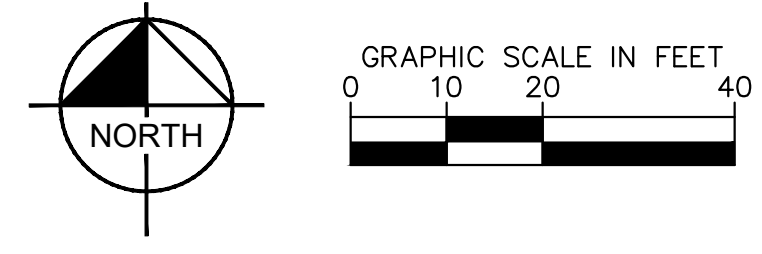


No.	REVISIONS	DATE	BY

Plotted By: D.J. Nabil, Sheet: Sct:kha_LayoutE-01-EXISTING ELECTRICAL, December 27, 2023, 09:24:51am, K:\NPN_CIVIL\117513002 - WWTP UV Improvements\CADD\PlanSheets\0-03-EXISTING CONDITIONS.dwg
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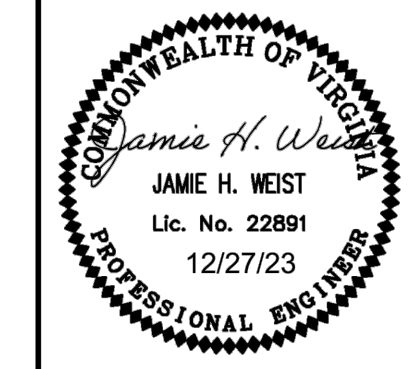
EXISTING BUCKETS IN MOTOR CONTROL CENTER (MCC) TO REMAIN. INSPECT EXISTING UV TREATMENT SYSTEM FEEDER FUSES AND WIRING IN MCC TO ENSURE THEY ARE IN GOOD CONDITION FOR REUSE.



**FRANKLIN WASTEWATER
 TREATMENT PLANT UV
 DISINFECTION
 REPLACEMENT**
 PREPARED FOR
 CITY OF FRANKLIN VIRGINIA

EXISTING ELECTRICAL
 SITE PLAN

KHA PROJECT
 117513002
 DATE
 DEC. 2023
 SCALE AS SHOWN
 DESIGNED BY JCS
 DRAWN BY LDH
 CHECKED BY JCS

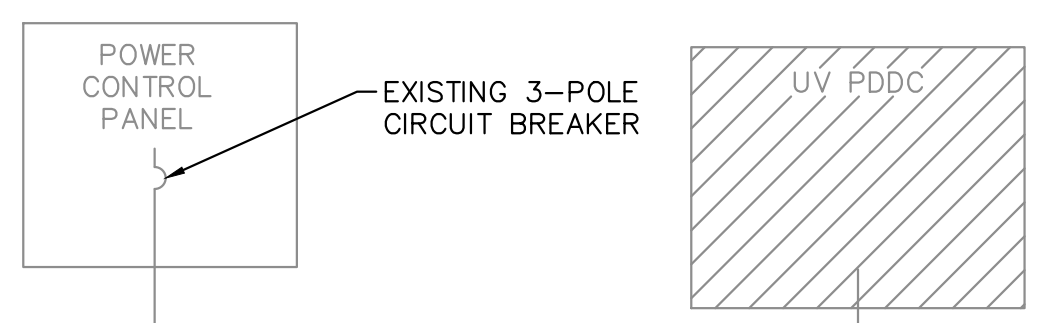


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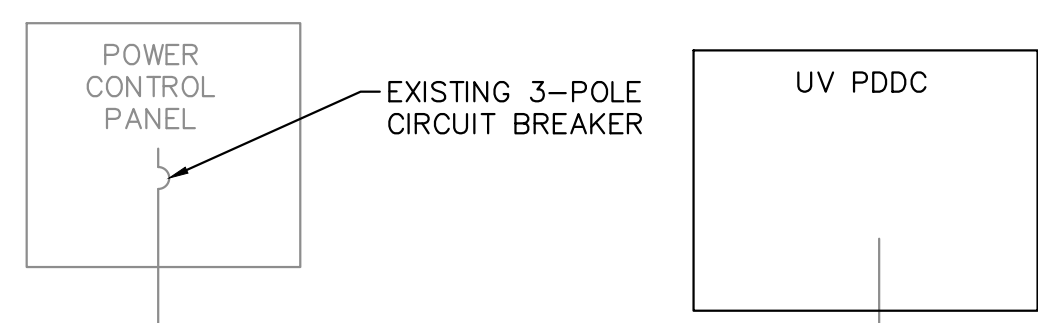
No.	REVISIONS	DATE	BY

SHEET NUMBER
 E-01

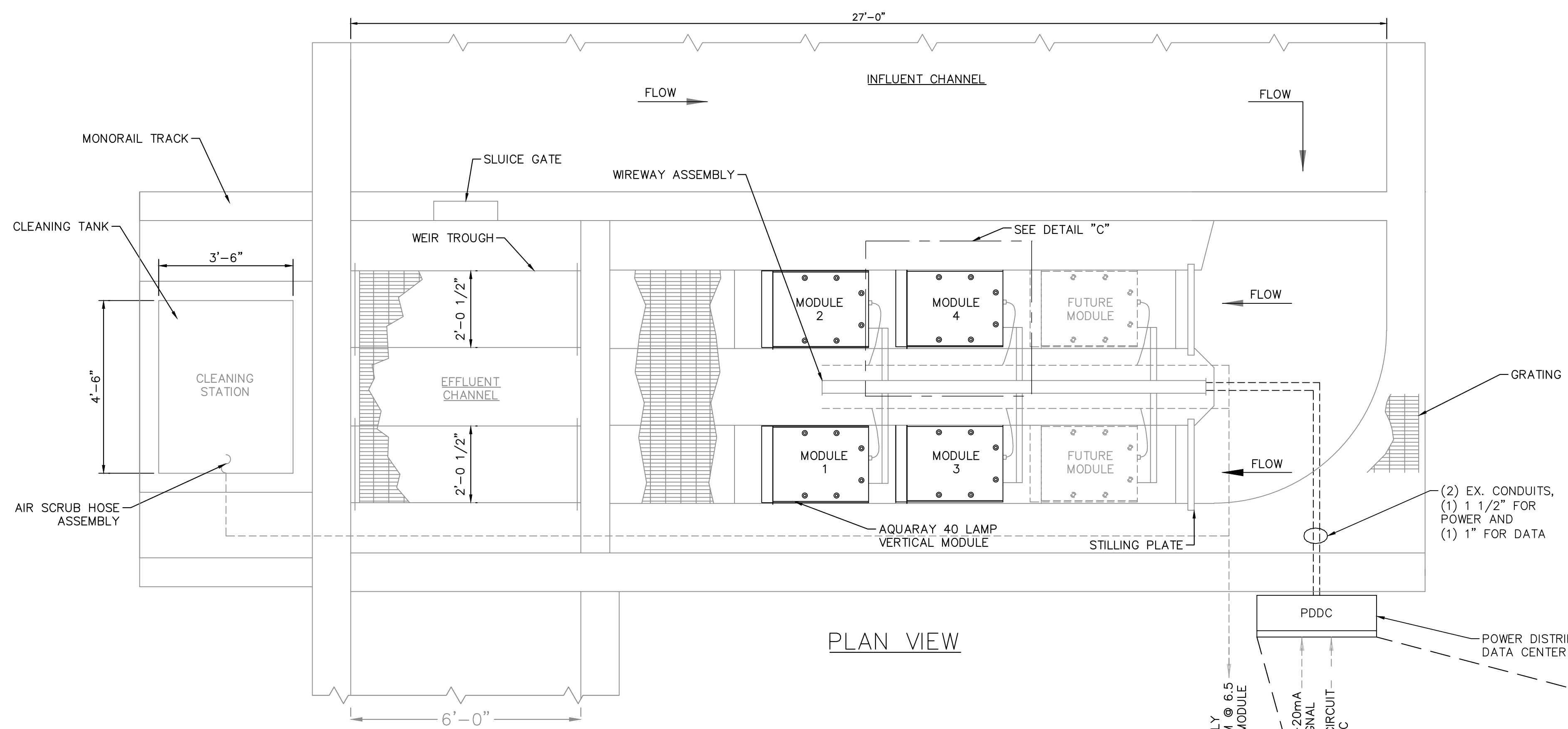
Plotted By: D:\Info\Nabil_Sheet_Sets\kha_Layout\E-02 ELECTRICAL SITE DETAILS December 27, 2023 09:24:57am K:\NPN\Civil\117513002 - WWTP UV Improvements\CADD\PlanSheet\SITE DETAILS.dwg
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EXISTING ONE-LINE DIAGRAM



PROPOSED ONE-LINE DIAGRAM



PLAN VIEW

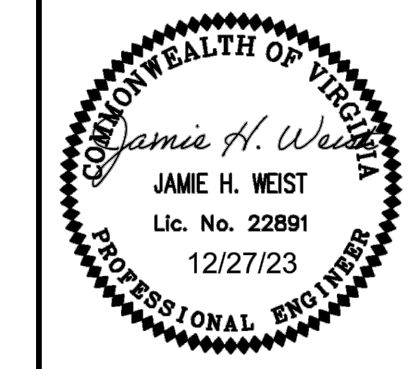
SHEET NOTES

1. DEMOLISH EXISTING PDDC AND REPLACE WITH NEW PDDC. VERIFY EXISTING CONDUCTORS AND CONDUIT ARE IN GOOD CONDITION FOR REUSE. NOTIFY ENGINEER IF CONDUIT OR CONDUCTORS ARE NEEDING REPLACEMENT.
2. DEMOLISH EXISTING CONDUIT AND CONDUCTORS FROM EXISTING PDDC TO UV MODULES.



No.	REVISIONS	DATE	BY

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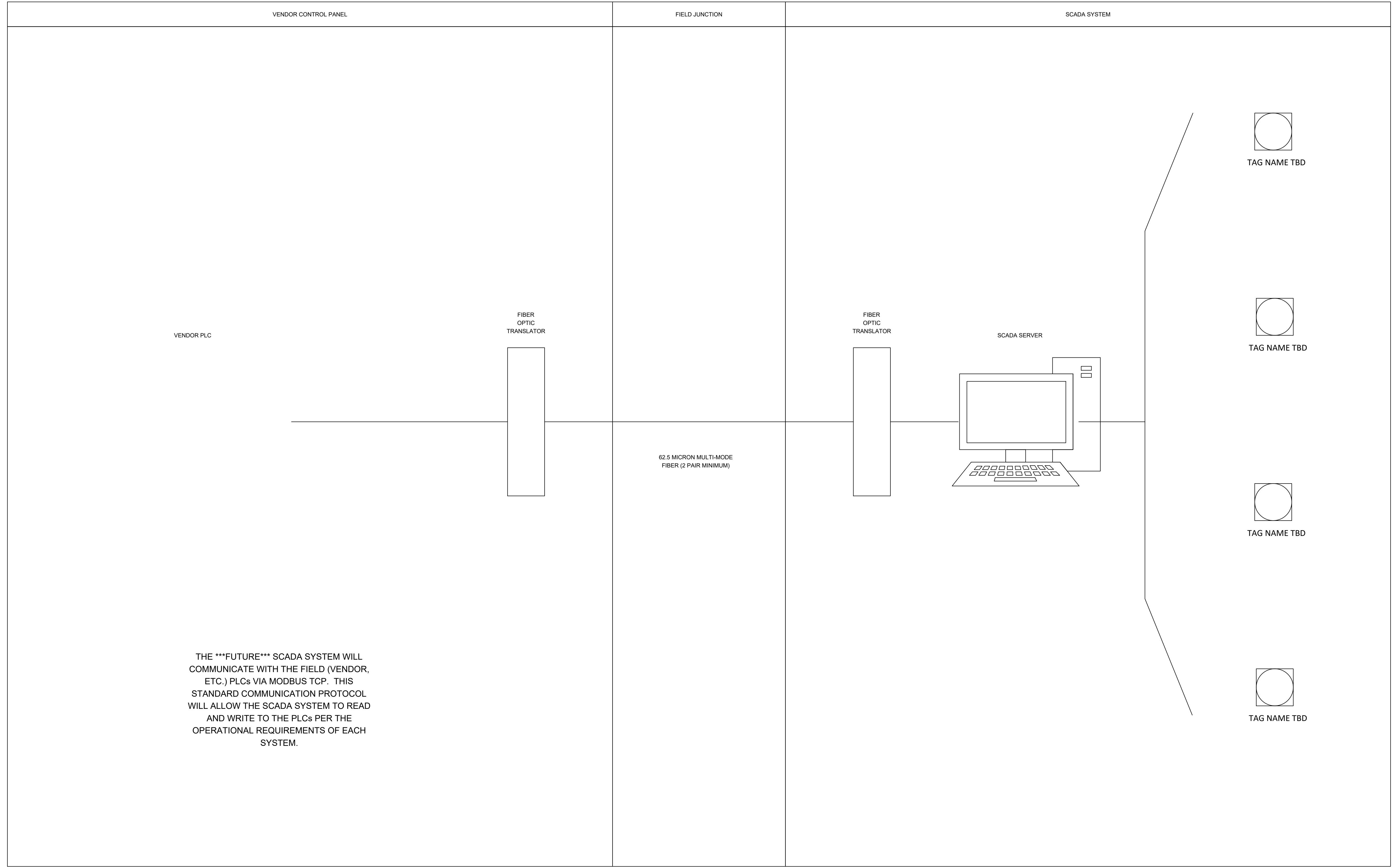


KHA PROJECT	117513002
DATE	DEC. 2023
SCALE	AS SHOWN
DESIGNED BY	JCS
DRAWN BY	LDH
CHECKED BY	JCS

ENLARGED ELECTRICAL PLANS

FRANKLIN WASTEWATER TREATMENT PLANT UV DISINFECTION REPLACEMENT PREPARED FOR CITY OF FRANKLIN VIRGINIA

Plotted By: D:\Jrf, Nabil - Sheet Set: kha - Layout: Layout3 - December 27, 2023 09:25:04am - K:\NPN_CWA\117513002 - WWTIP UV Improvements\CADD\PlanSheets\1-01 TO 1-07 INSTRUMENTATION.dwg
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LEGEND	
FIBER OPTIC CABLE	
ETHERNET CABLE (CAT6)	

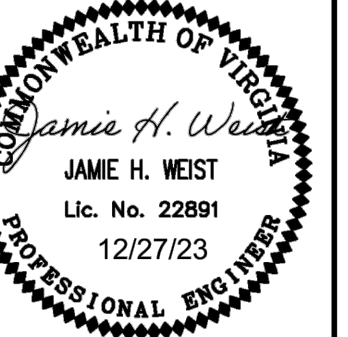


FRANKLIN WASTEWATER TREATMENT PLANT UV DISINFECTION REPLACEMENT PREPARED FOR CITY OF FRANKLIN VIRGINIA

SHEET NUMBER 1-01

INSTRUMENTATION 1

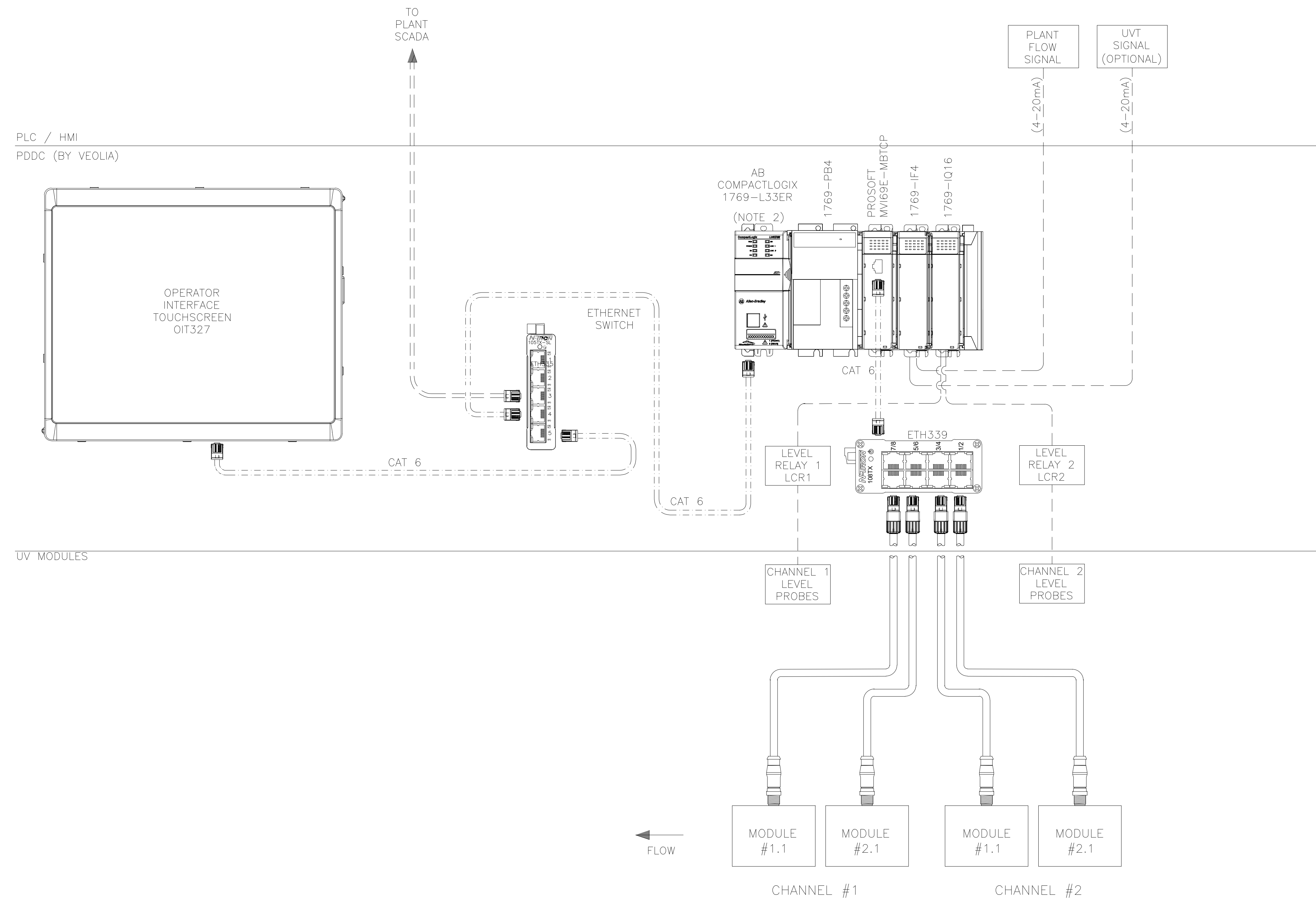
KHA PROJECT	117513002
DATE	DEC. 2023
SCALE	AS SHOWN
DESIGNED BY	RD
DRAWN BY	KTN
CHECKED BY	JHW



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No.	REVISIONS	DATE	BY

Plotted By: Djafi, Nabil Sheet Set: kha - Layout: Layout4 - December 27, 2023 09:25:04am K:\NPN_CWA\117513002 - WWTP UV Improvements\CADD\PlanSheets\1-01 TO 1-07 INSTRUMENTATION.dwg
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NOTE

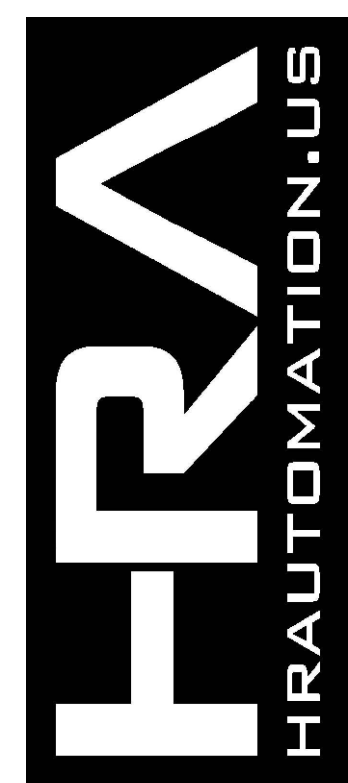
1. LEGEND

- : CABLE & FIELD WIRING (BY OTHERS).
- : CABLES ARE PROVIDED BY VEOLIA. FIELD WIRING BY OTHERS
- - - - : PANEL WIRING (BY VEOLIA).
- ⎓ : INDUSTRIAL ETHERNET WIRING (BY VEOLIA).

2. FOLLOWING ETHERNET I/P ADDRESSES TO BE USED

1. COMPACTLOGIX (PDDC)	: 192.168.10.5
2. PANELVIEW PLUS 7	: 192.168.10.6
3. SUBNET MASK	: 255.255.255.0

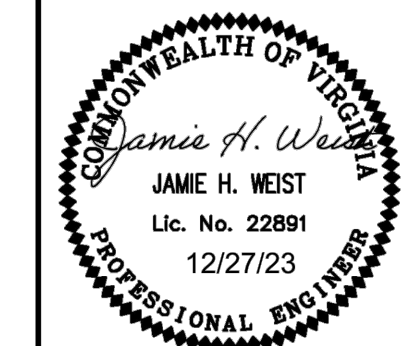
(PLANT PCS TO VERIFY)



FRANKLIN WASTEWATER TREATMENT PLANT UV DISINFECTION REPLACEMENT
 PREPARED FOR CITY OF FRANKLIN VIRGINIA

INSTRUMENTATION 2

KHA PROJECT	117513002
DATE	DEC. 2023
SCALE	AS SHOWN
DESIGNED BY	RD
DRAWN BY	KTN
CHECKED BY	JHW



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