

FCWS - TRILITH STUDIOS ELEVATED WATER STORAGE TANK

ISSUED FOR BID
JULY 2023

OWNER:



ENGINEER OF RECORD

LEGAL ENTITY: ARCADIS-U.S., INC.



2839 PACES FERRY ROAD, SUITE 400, ATLANTA,
GA 30339-3769 TEL: 770-431-8666 FAX: 770-435-2666
www.ARCADIS.com



ARCADIS ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL AND VERTICAL). THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



LEGAL ENTITY:
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CONSULTANTS

SEALS

ISSUE FOR BID

FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER
SYSTEM



FCWS-TRILITH STUDIOS
ELEVATED WATER
STORAGE TANK

400 VETERANS PARKWAY,
FAYETTEVILLE, GA 30214,
UNITED STATES

REVISIONS

0	07/07/2023	ISSUE FOR BID	TT
NO.	DATE	ISSUED FOR	BY

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2023

PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: G-01

DESIGNED BY: T. THOMAS

DRAWN BY: M. DEEPALI

CHECKED BY: H. GILES

SHEET TITLE

GENERAL

COVER SHEET AND
SITE LOCATION

SCALE: NTS

G-01

SHEET 1 OF 60

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7/7/2023 7:01:34 PM

BIM 360://AUS-30135792-Trilith Studios Elevated Storage Tank/M-3D-FCWS_R20.rvt 7/7/2023 7:01:34 PM

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PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: G-02

DESIGNED BY: T. THOMAS

DRAWN BY: M. DEEPALI

CHECKED BY: H. GILES

SHEET TITLE

GENERAL

DRAWING INDEX

SCALE: NTS

G-02

SHEET 2 OF 60

GENERAL NOTES

- THE CONTRACTOR SHALL FURNISH ALL MATERIALS FOR, AND PROPERLY RESTORE ALL PAVEMENT, DRIVES, SIDEWALK, AND CURBS, WHICH MAY HAVE BEEN DAMAGED, REMOVED OR DISTURBED AS RESULT OF ACCOMPLISHING THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING GRADES AND DIMENSIONS AND NOTIFYING THE ENGINEER IN ADVANCE AND IN WRITING OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK.
- EXISTING UTILITY LOCATIONS SHOWN ARE BASED ON SURFACE OBSERVATION AND LIMITED DETECTION SERVICES. NOT ALL EXISTING UTILITIES ARE SHOWN ON THE DRAWING. CONTRACTOR IS RESPONSIBLE FOR DETERMINING BOTH THE EXACT LOCATION OF ALL EXISTING UTILITIES AND FOR DETERMINING THEIR PROTECTION DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL OPERATIONS WITH ALL UTILITIES WHICH MAY BE IN CONFLICT WITH HIS WORK.
- A COPY OF THE APPROVED SET OF CONSTRUCTION PLANS MUST BE ON THE JOBSITE AT ALL TIMES DURING CONSTRUCTION.
- ALL EROSION AND SEDIMENTATION CONTROLS AND TREE PROTECTION SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBANCE ACTIVITY.
- NO WORK SHALL TAKE PLACE PRIOR TO 7:00AM OR AFTER 5:30PM, MONDAY THROUGH FRIDAY. WORK ON WEEKENDS SHALL BE PROHIBITED UNLESS AUTHORIZED BY THE CITY OF DALTON PUBLIC WORKS PROJECT MANAGER.
- UNLESS NOTED OTHERWISE ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF DALTON AND STATE OF GEORGIA STANDARDS AND SPECIFICATIONS.
- WHERE SHOWN ON DRAWINGS ALL SUBSURFACE TOPOGRAPHICAL FEATURES WHICH INCLUDE GROUND WATER TABLE, PARTIALLY WEATHERED ROCK, AND ROCK SHOWN ARE APPROXIMATE. THE CONTRACTOR AT HIS EXPENSE SHALL CONDUCT ADDITIONAL SUBSURFACE SOIL EXPLORATION IF DEEMED NECESSARY.
- BECAUSE THE PROJECT CONSTRUCTION SITE IS LOCATED NEAR RESIDENTIAL STREETS ADJACENT TO OCCUPIED RESIDENCES, ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN SUCH A MANNER THAT WILL PROVIDE ACCEPTABLE LEVELS OF SAFETY AND MAINTENANCE OF UTILITIES ROADWAY, TRAFFIC, DRIVEWAYS, SIDEWALKS, ETC. TO ALL OWNERS, CITY OF DALTON DEPARTMENT OF PUBLIC WORKS, MANAGEMENT, AND OTHER UTILITIES. THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN AND PROTECT ALL UTILITY SERVICES AND DRIVEWAY ACCESS, TO BUT NOT LIMITED TO, RESIDENTS, EMERGENCY SERVICES, VEHICLES, AND PEDESTRIAN TRAFFIC, ETC.
- THE CONTRACTOR SHALL COORDINATE, OBTAIN APPROVAL AND PROVIDE TEMPORARY TRAFFIC ROUTING PLANS PRIOR TO ANY LANE CLOSURES WITH THE CITY OF DALTON DEPARTMENT OF PUBLIC WORKS TRANSPORTATION DIVISION.
- ALL WORK AROUND THE EXISTING UTILITIES AND UTILITY STRUCTURES WHETHER ABOVE OR BELOW GROUND SHALL BE PERFORMED IN A MANNER THAT WILL AVOID DAMAGE TO THE UTILITIES AND STRUCTURES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL ACCURATELY LOCATE ABOVE AND BELOW UTILITIES WHICH MAY BE AFFECTED BY THE WORK AND PROTECT ALL UTILITIES NOT DESIGNATED FOR REMOVAL, RESTORATION, OR REPLACEMENT IN THE COURSE OF CONSTRUCTION. PROVIDE 72 HOURS OF ADVANCE NOTICE TO THE UTILITY OWNER AND WHITFIELD COUNTY PRIOR TO BEGINNING CONSTRUCTION IN THE VICINITY OF THE EXISTING UTILITIES. FOR EXISTING UTILITY LOCATION ASSISTANCE CALL THE UNDERGROUND UTILITIES PROTECTION CENTER (GA 811).
- ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR, CONTRACTOR'S CREW AND/OR EQUIPMENT SHALL BE THE CONTRACTOR'S COST AND RESPONSIBILITY TO REPLACE PER OWNER'S STANDARDS AND SPECIFICATIONS.
- THE REFUSE RESULTING FROM THE CLEARING AND GRUBBING OPERATION SHALL BE HAULED TO A DISPOSAL SITE SECURED BY THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, COUNTY AND MUNICIPAL REGULATIONS. NO DEBRIS OF ANY KIND SHALL BE DEPOSITED IN ANY STREAM OR BODY OF WATER OR IN ANY STREET OR ALLEY. NO DEBRIS SHALL BE DEPOSITED UPON ANY PRIVATE PROPERTY EXCEPT BY WRITTEN CONSENT OF THE PROPERTY OWNER. IN NO CASE SHALL ANY MATERIAL BE LEFT ON THE PROJECT, SHOVED ONTO ADJUTING PRIVATE PROPERTIES, OR BE BURIED IN THE EMBANKMENTS OR TRENCHES ON THE PROJECT.
- FINISHED GRADING OF THE DISTURBED AREA SHALL BE ACCORDING TO CIVIL DRAWINGS. NO STANDING WATER OR PONDING OF ANY KIND IS ALLOWED. ALL DISTURBED AREA SHALL BE IMMEDIATELY GRASSED.
- THIS PROJECT IS LOCATED IN THE VICINITY OF POLES AND POWER LINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITIES TO OBTAIN AN OVERHEAD UTILITY TICKET PRIOR TO WORKING ADJACENT TO THE POWER LINES AND POLES.
- THE CONTRACTOR SHALL COMPLY WITH THE STATE OF GEORGIA MANUAL FOR EROSION AND SEDIMENT CONTROL STANDARDS, LATEST EDITION.
- IN THE EVENT ACTIVE UTILITY SERVICES REQUIRE INTERRUPTION, THE CONTRACTORS SHALL COORDINATE AND CONSULT WITH THE OWNER OR/OWNERS AND OBTAIN APPROVAL FROM THEM PRIOR TO SERVICES BEING DISRUPTED.
- THE CONTRACTOR SHALL ALL TIMES CONTROL DUST AND DEBRIS FROM THE OPERATIONS TO A LEVEL ACCEPTABLE TO THE CITY OF DALTON AND LOCAL BUSINESSES AT ALL TIMES.
- ALL UTILITY WORK WITHIN THE WHITFIELD COUNTY RIGHT OF WAY SHALL BE PERFORMED IN ACCORDANCE TO WHITFIELD COUNTY STANDARDS AND SPECIFICATIONS, LATEST EDITION. WORK ON THE SITE SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
- TEMPORARY DISCONNECTION, REMOVAL AND/OR REPLACEMENT OF THE FOLLOWING ITEMS BUT NOT LIMITED TO, FIRE HYDRANTS, WATER METERS, BACK FLOW PREVENTION DEVICES, VAULTS, MANHOLE AND OTHER POTABLE WATER SYSTEM APPURTENANCES. ASSOCIATED APPURTENANCES SHALL BE IN STRICT ACCORDANCE WITH THE LATEST WHITFIELD COUNTY STANDARDS AND SPECIFICATIONS. BEFORE CONNECTION, REMOVAL AND/OR REPLACEMENT OF ANY UTILITIES, THE CONTRACTOR SHALL CONTACT AND OBTAIN APPROVAL FROM THE CITY OF DALTON PUBLIC WORKS REPRESENTATIVES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE WHITFIELD COUNTY OR LOCAL AUTHORITY FIRE MARSHAL PRIOR TO REMOVING ANY FIRE HYDRANTS OR ANY FIRE PROTECTION UTILITIES. ANY WORK OR MATERIALS REQUIRED BY THE FIRE MARSHAL TO TEMPORARILY PROVIDE FOR FIRE PROTECTION TO THE LOCAL BUSINESS SHALL BE PART OF THE CONTRACTOR'S SCOPE OF WORK. "OUT-OF-SERVICE RINGS" WILL BE REQUIRED FOR HYDRANTS WHILE OUT OF SERVICE.
- ALL EXCAVATION SHALL BE ADEQUATELY SHORED TO ENSURE WORKER SAFETY. ALL PIPE LAYING OPERATIONS SHALL COMPLY WITH OSHA REQUIREMENTS FOR TRENCH SAFETY.
- MAINTENANCE AND TRAFFIC: THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL ROAD PERMITS FROM THE CITY OF DALTON DEPARTMENT OF PUBLIC WORKS INCLUDING PROVIDING ANY RESTORATION BONDS. THE CONTRACTOR SHALL PROVIDE A DETAILED PHASED TRAFFIC CONTROL PLAN BASED ON THE PROPOSED WORK PHASING AS DETERMINED BY THE CONTRACTOR.
- 72 HOURS NOTICE IS REQUIRED TO GEORGIA 811 UTILITY PROTECTION CENTER BEFORE ANY PLANNED DIGGING. <http://www.georgia811.com>

STAKING NOTES

- THE EXISTING CONDITIONS SITE FEATURES ARE BASED ON FIELD SURVEY CONDUCTED BY CHASTAIN & ASSOCIATES, P.C. IN JANUARY AND SEPTEMBER OF 2021.
- HORIZONTAL DATUM IS REFERENCED TO NAD-83 GEORGIA STATE PLANE, WEST ZONE.
- VERTICAL DATUM IS REFERENCED TO NAVD 88.

GRADING NOTES:

- CONTRACTOR SHALL NOT PERMIT EQUIPMENT TO BE USED IN SUCH A MANNER AS TO CAUSE EQUIPMENT TO EXCESSIVELY BUMP OR RUT THE SUBGRADE OR OTHER PREPARED AREAS.
- CONTRACTOR SHALL GRADE IN A MANNER TO ESTABLISH LONG SMOOTH GRADIENTS IN ORDER TO REDUCE ABRUPT CHANGES, DIPS AND SHARP TRANSITIONS IN THE FINISHED GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE POSITIVE DRAINAGE ON GRADED SURFACE AREAS AT 1% MINIMUM ON HARDSCAPE AT 2% MINIMUM ON GRADE UNLESS OTHERWISE INDICATED.
- ANY REQUIRED DETENTION FACILITIES AND EROSION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
- SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
- UNLESS SHOWN ON THE EROSION & SEDIMENT CONTROL PLANS AND / OR LANDSCAPING PLANS, ALL DISTURBED AREAS NOT RECEIVING A SURFACE SHALL BE COVERED IN GRASS.
- GENERALLY TAKE STANDARD PRECAUTIONS TO PROTECT TREES. SEE LANDSCAPE DRAWINGS FOR TREE PROTECTION REQUIREMENTS WHEN APPLICABLE.

DEMOLITION NOTES:

- THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL EXISTING, PAVEMENT, SIDEWALK, CURB, GUTTER, PAVERS, ETC., NOTED TO BE REMOVED WITHIN THE DEMOLITION LIMITS AS SHOWN ON THIS PLAN UNLESS OTHERWISE NOTIFIED.
- CONTRACTOR TO PROVIDE AND MAINTAIN NECESSARY FENCES, BARRICADES, LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL MEASURES AS REQUIRED FOR THE PROTECTION AND SAFETY OF THE PUBLIC THROUGHOUT THE DEMOLITION AND CONSTRUCTION ACTIVITIES ON THE SITE.
- CONTRACTOR SHALL MINIMIZE THE IMPACT OF CONSTRUCTION ACTIVITIES ON THE TRAFFIC FLOW TO SURROUNDING FACILITIES TO REMAIN.
- CONTRACTOR SHALL SAW CUT PAVEMENT, SIDEWALKS AND CURB & GUTTER AT THE LIMIT OF DEMOLITION FOR REMOVAL.
- ALL EXISTING PIPE TO BE ABANDONED SHALL BE CUT, AND PLUGGED OR CAPPED AT EACH END. WHERE EXISTING PIPING INTERFERES WITH NEW PIPING OR CONSTRUCTION, IT SHALL BE REMOVED BEYOND THE LIMITS REQUIRED FOR THE PROPER COMPLETION OF THE WORK AND THE OPEN ENDS PLUGGED OR CAPPED UNLESS OTHERWISE SHOWN. LINES SHALL BE PLUGGED OR CAPPED AT LEAST 12-INCHES BEHIND OR BELOW FINISH BUILDING SURFACE AND AT LEAST 12-INCHES BELOW PROPOSED GRADE SURFACE.
- THE CONTRACTOR SHALL INSTALL ALL INITIAL EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO BEGINNING DEMOLITION OPERATIONS.

PROJECT COMPLETION

- PRIOR TO ACCEPTANCE AND FINAL PAYMENT, CONTRACTOR IS TO PROVIDE AN AS-BUILT SURVEY, WHICH IS A DRAWING PREPARED AND SIGNED BY A REGISTERED LAND SURVEYOR REGISTERED IN THE STATE OF GEORGIA ILLUSTRATING THE LOCATIONS, DIMENSIONS AND ELEVATIONS OF A DEVELOPMENT AS IT HAS BEEN CONSTRUCTED FOLLOWING COMPLETION OF CONSTRUCTION ON DIRECT FIELD MEASUREMENTS AND SHOWN TO SCALE.

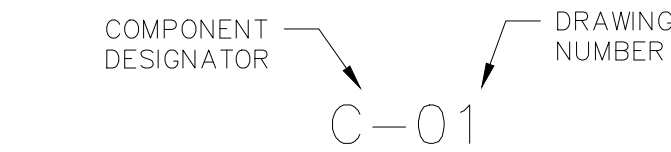
LEGEND & SYMBOLS

---	-800-	EXISTING MAJOR CONTOUR
----	-801-----	EXISTING MINOR CONTOUR
---	NYS	EXISTING SANITARY SEWER
---	UP	EXISTING UNDERGROUND POWER
---	W	EXISTING WATER LINE
---	UC	EXISTING UNDERGROUND COMMUNICATIONS
---		EXISTING STORM SYSTEM
		EXISTING LANDSCAPE
		EXISTING PAVEMENT
		EXISTING CONCRETE
---	-800-	PROPOSED MAJOR CONTOUR
---	-801-	PROPOSED MINOR CONTOUR
---		PROPOSED PROPERTY LINE
---	W	PROPOSED WATER LINE
---	X	PROPOSED SECURITY FENCE
---		PROPOSED STORM SYSTEM
---		PROPOSED EASEMENT
		PROPOSED BUILDING
		PROPOSED CONCRETE
		PROPOSED GRAVEL
		GRASSED AREA

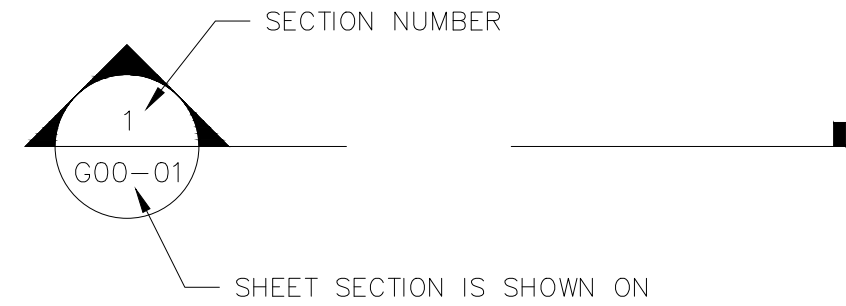
CIVIL ABBREVIATIONS

APPROX.	APPROXIMATE	GRAT.	GRATING
ASPH	ASPHALT	HORIZ.	HORIZONTAL
BLDG.	BUILDING	ID	INSIDE DIAMETER
BOC	BOTTOM OF CURB	IN., "	INCHES
CL	CENTERLINE	INF.	INFLUENT
CB	CATCH BASIN	INV.	INVERT
CO	CLEANOUT	JT.	JOINT
CONC.	CONCRETE	LF	LINEAR FOOT/FEET
CONT.	CONTINUED	MAS	MASONRY
CPLG.	COUPLING	MAX.	MAXIMUM
CY	CUBIC YARD(S)	MFR.	MANUFACTURER
DE	DIATOMACEOUS EARTH	MGD	MILLION GALLONS PER DAY
DET.	DETAIL	MH	MANHOLE
DI	DROP INLET	MIN.	MINIMUM
DIP	DUCTILE IRON PIPE	NC	NORMALLY CLOSED
DIA.	DIAMETER	NO	NORMALLY OPEN
DISCH.	DISCHARGE	NO.	NUMBER
DWG	DRAWING	OD	OUTSIDE DIAMETER
EA.	EACH	PDW	PROCESS DRAIN TO WASTE
EFF.	EFFLUENT	PE	POLYETHYLENE
EJ	EXPANSION JOINT	PG.	PROPOSED GROUND
ELEV.	ELEVATION	PROP.	PROPOSED
ELEC.	ELECTRIC	PSI	POUNDS PER SQUARE INCH
EQ.	EQUAL	R	REDUCER
EXIST.	EXISTING	REINF.	REINFORCEMENT OR REINFORCE
FCV	FLOW CONTROL VALVE	REQ'D.	REQUIRED
FD	FLOOR DRAIN	ROW	RIGHT OF WAY
FDN	FOUNDATION	SHT.	SHEET
FIN.	FINISHED	SS	STAINLESS STEEL
FLEX.	FLEXIBLE	STD.	STANDARD
FLG	FLANGE	STRUC.	STRUCTURAL
FLR.	FLOOR	TOC	TOP OF CURB
FTG.	FOOTING	THK.	THICK
FT.	FEET	TYP.	TYPICAL
GRD.	GROUND	VERT.	VERTICAL
		W/	WITH

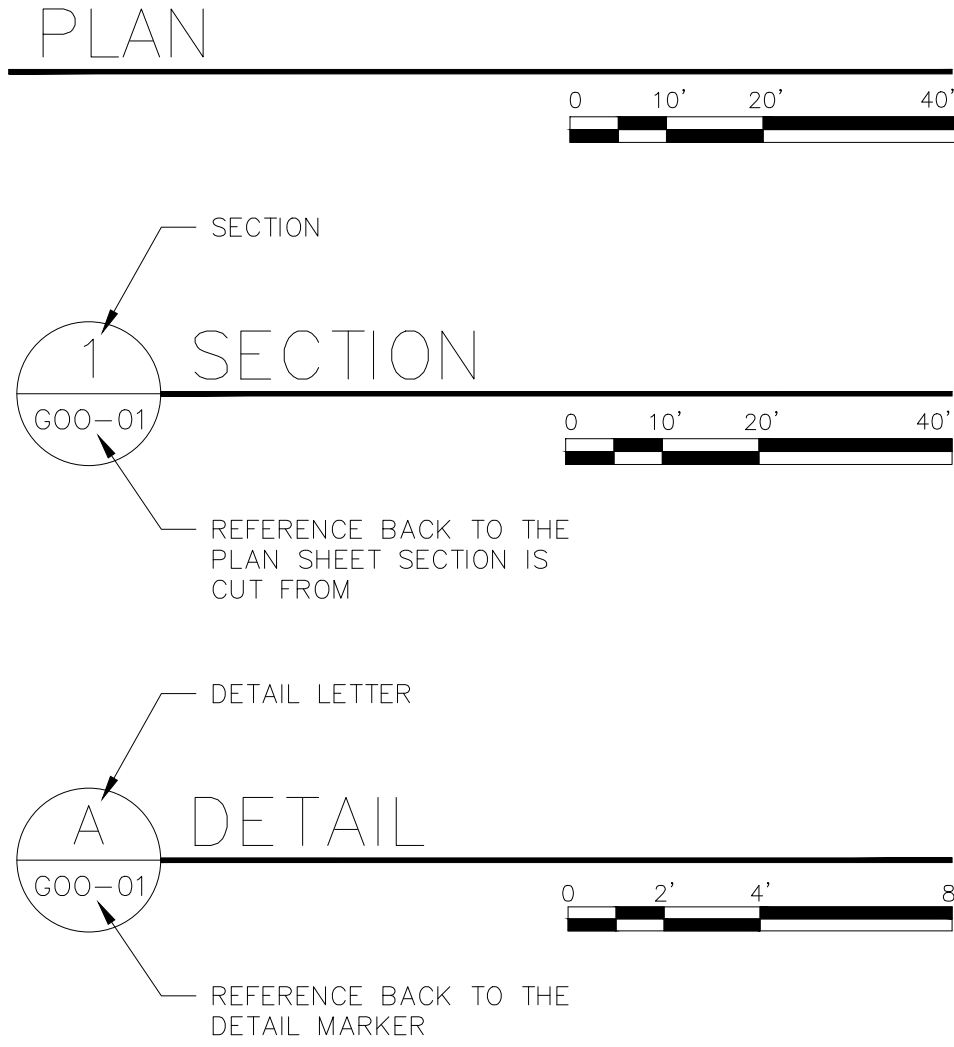
DRAWING NUMBER EXPLANATION



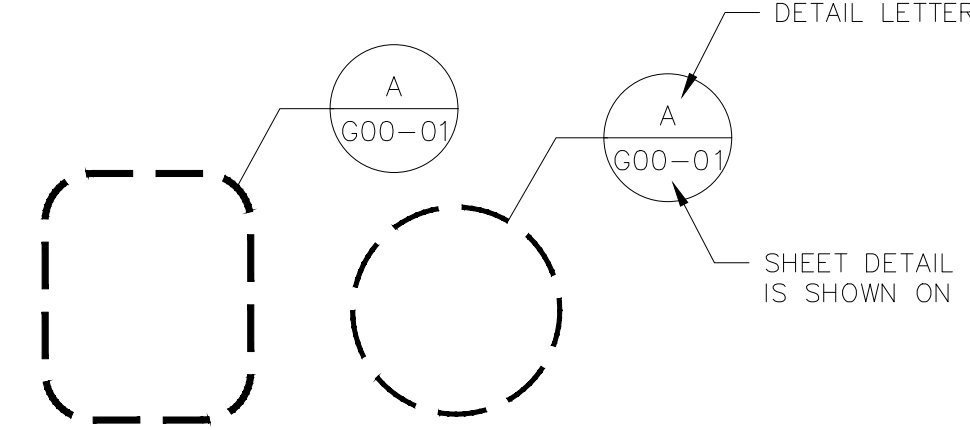
SECTION MARKERS



TITLE MARKERS



DETAIL MARKERS



TYPICAL DETAILS



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DATE: JULY 2023

FILE NAME: C-00

DESIGNED BY: TAYLOR H. TITTLE, PE

DRAWN BY: MADISON A. SMITH, EIT

CHECKED BY: DAVID A. WILSON, PE

SHEET TITLE

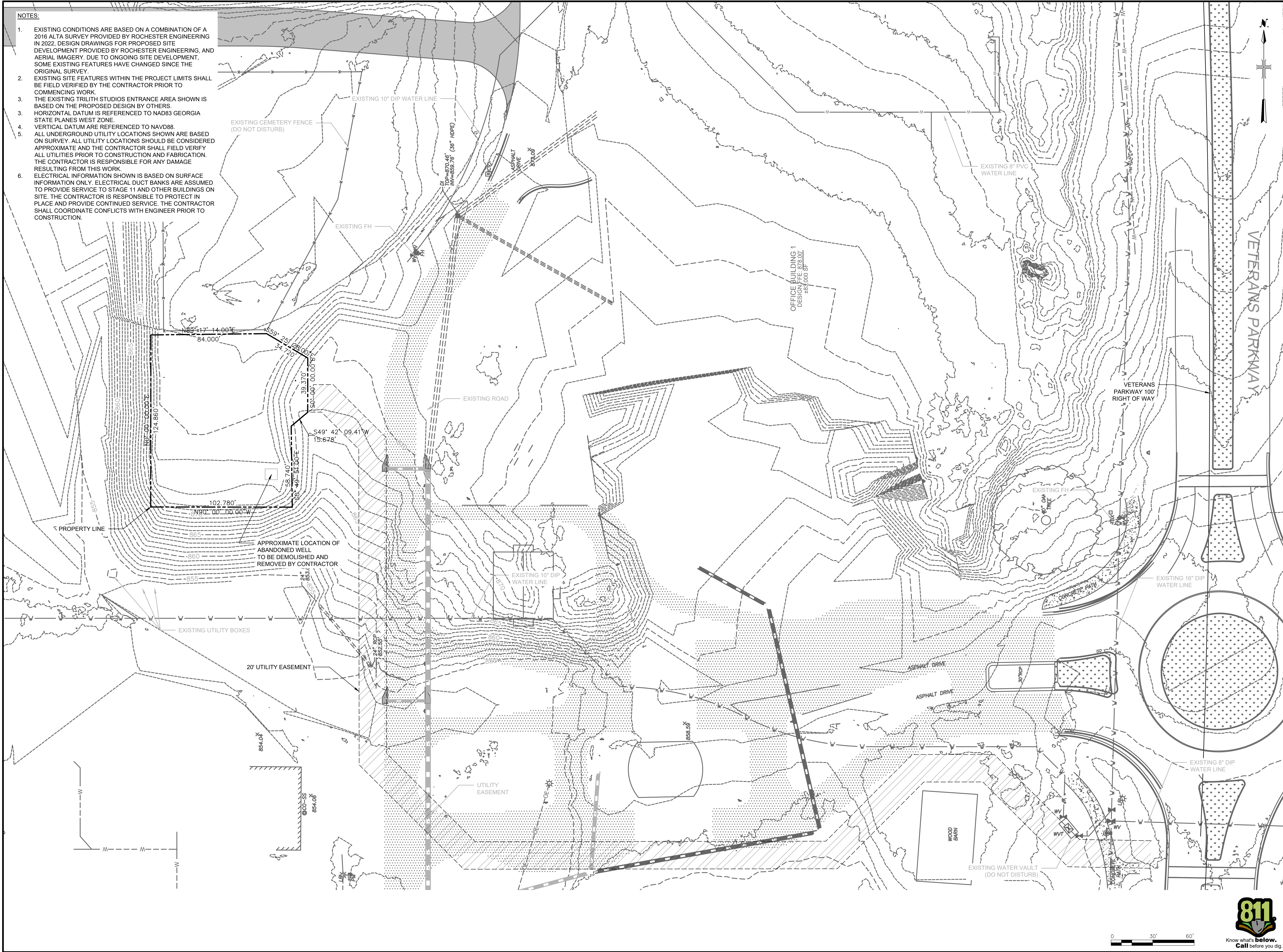
CIVIL

CIVIL NOTES, SYMBOLS,
& ABBREVIATIONS

SCALE: AS SHOWN

C-00
SHEET 3 OF 60

- NOTES:
- EXISTING CONDITIONS ARE BASED ON A COMBINATION OF A 2016 ALTA SURVEY PROVIDED BY ROCHESTER ENGINEERING IN 2022, DESIGN DRAWINGS FOR PROPOSED SITE DEVELOPMENT PROVIDED BY ROCHESTER ENGINEERING, AND AERIAL IMAGERY. DUE TO ONGOING SITE DEVELOPMENT, SOME EXISTING FEATURES HAVE CHANGED SINCE THE ORIGINAL SURVEY.
 - EXISTING SITE FEATURES WITHIN THE PROJECT LIMITS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK.
 - THE EXISTING TRILITH STUDIOS ENTRANCE AREA SHOWN IS BASED ON THE PROPOSED DESIGN BY OTHERS.
 - HORIZONTAL DATUM IS REFERENCED TO NAD83 GEORGIA STATE PLANES WEST ZONE.
 - VERTICAL DATUM ARE REFERENCED TO NAVD88.
 - ALL UNDERGROUND UTILITY LOCATIONS SHOWN ARE BASED ON SURVEY. ALL UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE AND THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION AND FABRICATION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THIS WORK.
 - ELECTRICAL INFORMATION SHOWN IS BASED ON SURFACE INFORMATION ONLY. ELECTRICAL DUCT BANKS ARE ASSUMED TO PROVIDE SERVICE TO STAGE 11 AND OTHER BUILDINGS ON SITE. THE CONTRACTOR IS RESPONSIBLE TO PROTECT IN PLACE AND PROVIDE CONTINUED SERVICE. THE CONTRACTOR SHALL COORDINATE CONFLICTS WITH ENGINEER PRIOR TO CONSTRUCTION.



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DESIGNED BY: TAYLOR H. TITTLE, PE

DRAWN BY: MADISON A. SMITH, EIT

CHECKED BY: DAVID A. WILSON, PE

SHEET TITLE

CIVIL

EXISTING CONDITIONS PLAN

SCALE: AS SHOWN

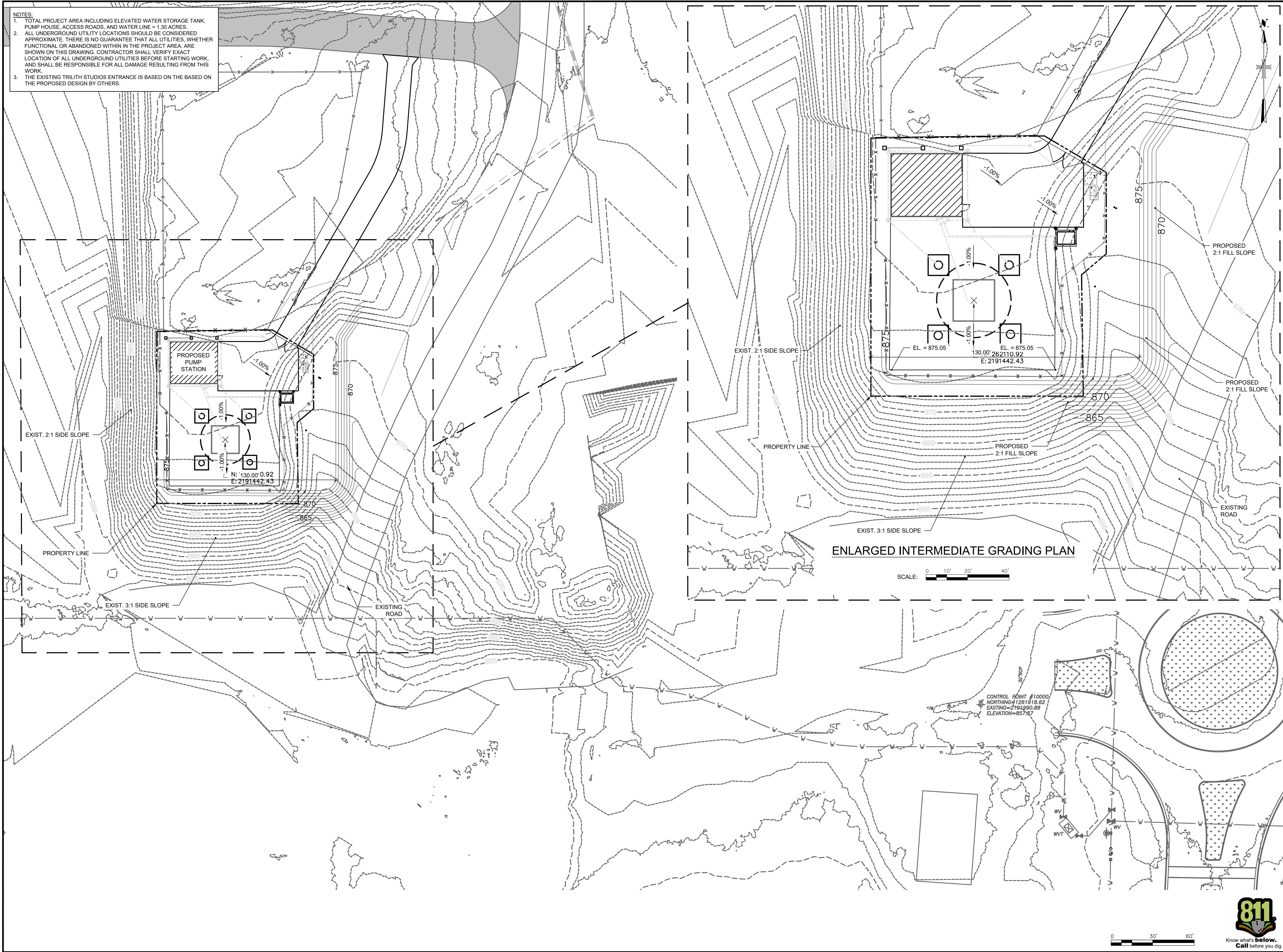
C-01

SHEET 4 OF 60

Know what's below.
Call before you dig.



User: NNA_Spec-AUS-NC5MOD File: C:\USERS\NNA\ACAD\DWG\PROJECT FILES\01 - WPCIVIL\SHEET\SSC-03.DWG Scale: 11 Saved Date: 7/7/2023 Time: 10:34 Plot Date: N/A, Noplot, 7/7/2023, 14:29 Layout: 6



- NOTES:
1. TOTAL PROJECT AREA INCLUDING ELEVATED WATER STORAGE TANK, PUMP HOUSE, ACCESS ROADS, AND WATER LINE = 1.30 ACRES
 2. ALL UNDERGROUND UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. THERE IS NO GUARANTEE THAT ALL UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN IN THE PROJECT AREA, ARE SHOWN ON THIS DRAWING. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE STARTING WORK, AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THIS WORK.
 3. THE EXISTING TRILITH STUDIOS ENTRANCE IS BASED ON THE BASED ON THE PROPOSED DESIGN BY OTHERS.

LEGAL ENTITY:
ARCADIS U.S., INC.
2839 PACES FERRY ROAD
SUITE 900, ATLANTA, GA 30339
TE: 770-431-8666
WWW.ARCADIS.COM

CONSULTANTS

SEALS

ISSUE FOR BID

FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER SYSTEM

FCWS-TRILITH STUDIOS
ELEVATED WATER STORAGE TANK

400 VETERANS PARKWAY
FAYETTEVILLE, GA 30214

REVISIONS				
NO.	DATE	ISSUED FOR	DW	BY
0	07/07/2028	ISSUE FOR BID	DW	

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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: C-03

DESIGNED BY:

DRAWN BY: MADISON A. SMITH, EIT

CHECKED BY: DAVID A. WILSON, PE

SHEET TITLE

CIVIL

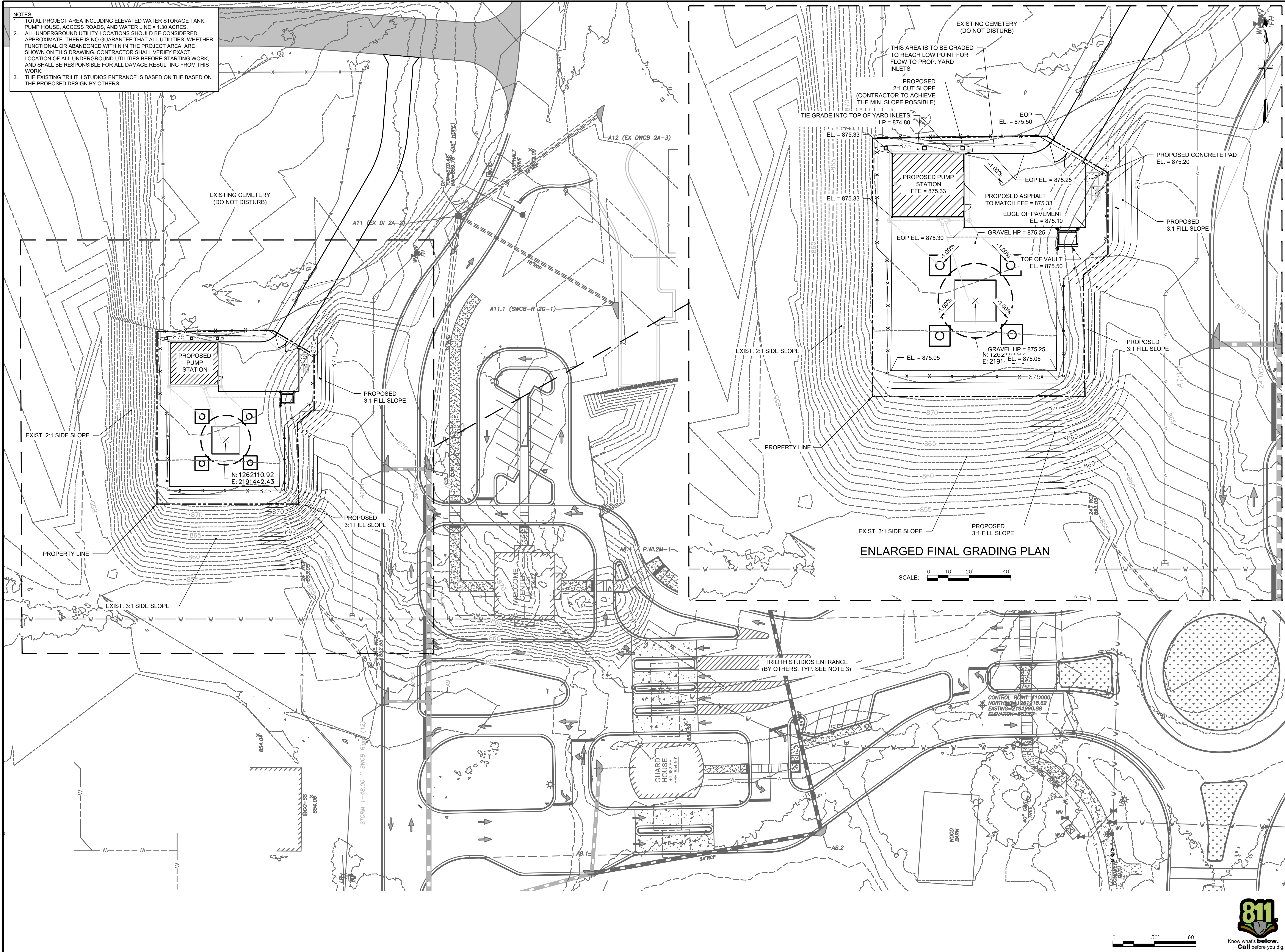
INTERMEDIATE GRADING PLAN

SCALE: 1" = 30'

C-03

SHEET 6 OF 60

Know what's below.
Call before you dig.



NOTES:
1. TOTAL PROJECT AREA INCLUDING ELEVATED WATER STORAGE TANK, PUMP HOUSE, ACCESS ROADS, AND WATER LINE = 1.30 ACRES
2. ALL UNDERGROUND UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. THERE IS NO GUARANTEE THAT ALL UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT AREA, ARE SHOWN ON THIS DRAWING. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE STARTING WORK, AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THIS WORK.
3. THE EXISTING TRILITH STUDIOS ENTRANCE IS BASED ON THE BASED ON THE PROPOSED DESIGN BY OTHERS.

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CONSULTANTS

SEALS

ISSUE FOR BID

FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER SYSTEM

FCWS-TRILITH STUDIOS
ELEVATED WATER STORAGE TANK

400 VETERANS PARKWAY
FAYETTEVILLE, GA 30214

REVISIONS			
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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: C-04.1

DESIGNED BY:

DRAWN BY: MADISON A. SMITH, EIT

CHECKED BY: DAVID A. WILSON, PE

SHEET TITLE

CIVIL

FINAL GRADING PLAN

SCALE: 1" = 30'

C-04

SHEET 7 OF 60

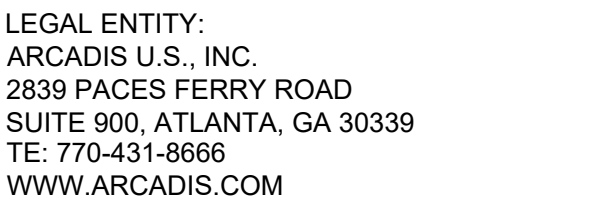
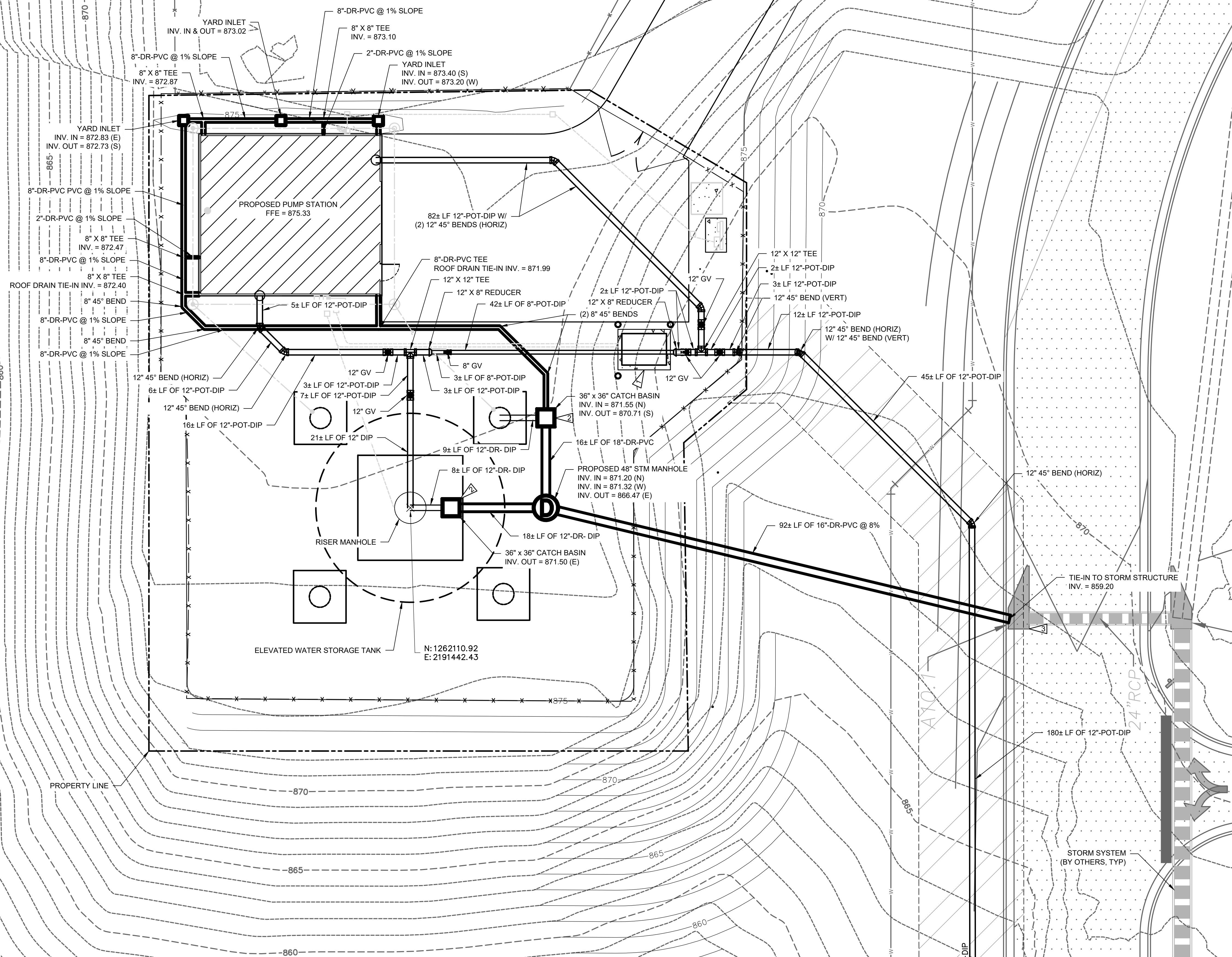
Know what's below.
Call before you dig.

1. ALL WATER MAIN PIPING AND FITTINGS TO BE CLASS 350 WITH RESTRAINED JOINTS.
2. ALL UNDERGROUND UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. THERE IS NO GUARANTEE THAT ALL UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT AREA, ARE SHOWN ON THIS DRAWING. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE STARTING WORK, AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THIS WORK.
3. THE EXISTING TRILLIUM STUDIOS ENTRANCE SHOWN IS BASED ON THE PROPOSED DESIGN OF OTHERS.
4. INCLUDE VALVE MARKER AT EACH VALVE LOCATION.
5. INCLUDE WATERLINE UPRIGHT MARKERS SHOWING THE PIPELINE ALIGNMENT EVERY 100-FT.

12' X 6' PROPOSED WATER VAULT (SEE DRAWING M-06)

- 2 CONTRACTOR TO COORDINATE WITH TANK FOUNDATION PROVIDED BY TANK MANUFACTURER. TANK DRAIN AND OVERFLOW DRAIN SPILL IN ABOVE FG.

- 3 TIE-IN TO EXISTING INLET. EXISTING INLET IS GDOT STANDARD PRECAST CATCH BASIN I033D INLET.



CONSULTANTS

SEALS

ISSUE FOR BID

FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER
SYSTEM



FCWS-TRILITH STUDIOS ELEVATED WATER STORAGE TANK

400 VETERANS PARKWAY
FAYETTEVILLE, GA 30214

REVISIONS

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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: C-06

DESIGNED BY: TAYLOR H. TITTLE, PE

DRAWN BY: MADISON A. SMITH, E

CHECKED BY: DAVID A. WILSON PE

SHEET TITLE

CIVIL

ENLARGED
UTILITY PLAN

SCALE:

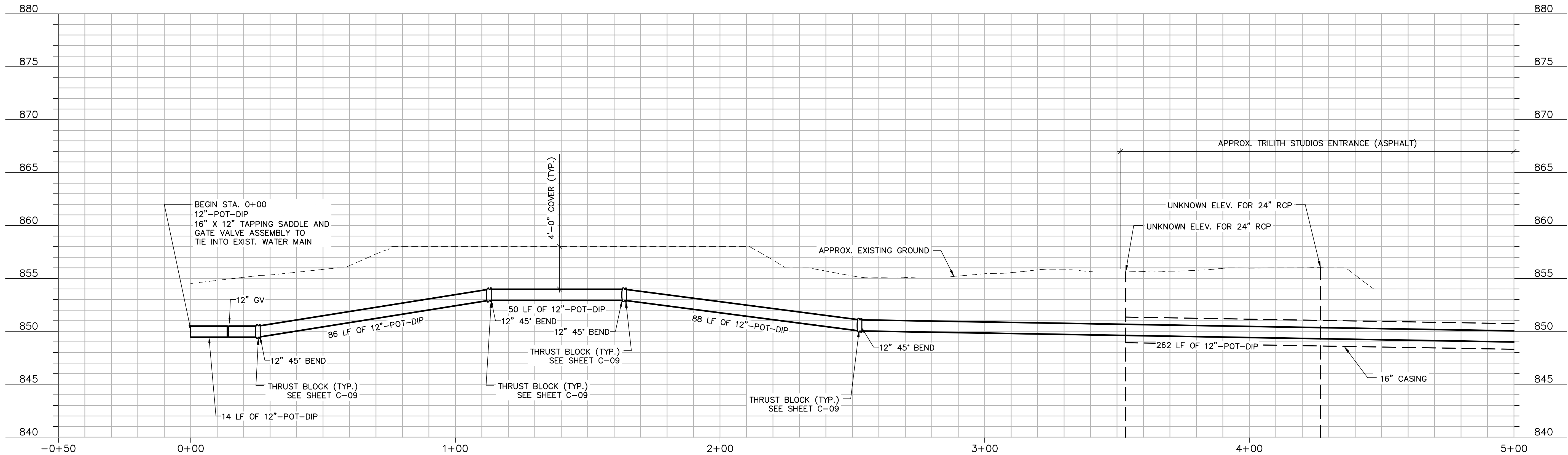
AS SHOWN

C-06

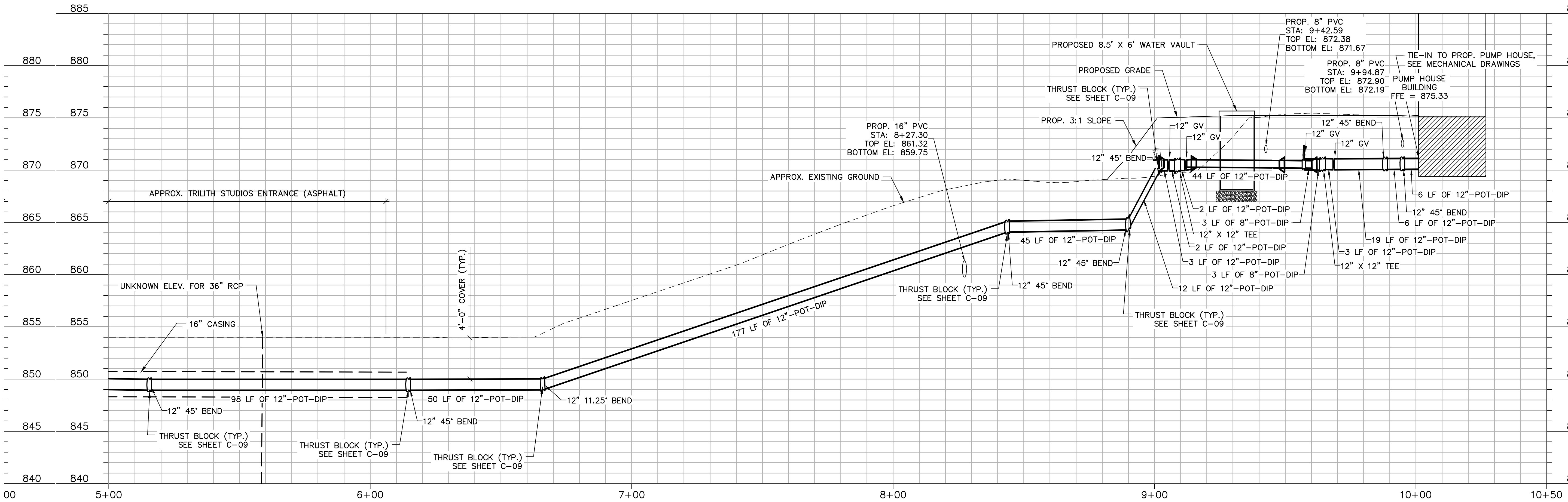
SHEET 9 OF 60



Know what's **below**.
Call before you dig.



WATER MAIN PRESSURE PIPE PROFILE: STA. 0+00 TO STA. 5+00



WATER MAIN PRESSURE PIPE PROFILE: STA. 5+00 TO STA. 9+78

NOTES:
1. ALL WATER MAIN PIPING AND FITTINGS TO BE CLASS 350 WITH RESTRAINED JOINTS.
2. ALL UNDERGROUND UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. THERE IS NO GUARANTEE THAT ALL UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN IN THE PROJECT AREA, ARE SHOWN ON THIS DRAWING. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE STARTING WORK, AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THIS WORK.

LEGEND

- EXISTING GROUND
- PROPOSED GROUND
- PROPOSED PRESSURE PIPE

SCALE: HORIZ. 0 10' 20' 40'
VERT. 0 5' 10'



SEALS

ISSUE FOR BID

FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER
SYSTEM



400 VETERANS PARKWAY
FAYETTEVILLE, GA 30214

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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.:	30135792
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DATE: JULY 2023

FILE NAME: C-07

DESIGNED BY: TAYLOR H. TITTLE, PE

DRAWN BY: MADISON A. SMITH, EIT

CHECKED BY: DAVID A. WILSON PE

SHEET TITLE

CIVIL

PRESSURE PIPE
PROFILES
(SHEET 2 OF 2)

SCALE: AS SHOWN

C-08

SHEET 11 OF 60



NOTES

- NOTES:**
1. ALL WATER MAIN PIPING AND FITTINGS TO BE CLASS 350 WITH RESTRAINED JOINTS.
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LEGEND

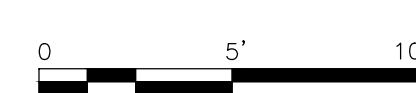
_____ EXISTING GROUND
 - - - - - PROPOSED GROUND
 _____ PROPOSED PRESSURE PIPE

SCALE:

HORIZ.



VERT.





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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: C-07

DESIGNED BY: TAYLOR H. TITTLE, PE

DRAWN BY: MADISON A. SMITH, EIT

CHECKED BY: DAVID A. WILSON, PE

SHEET TITLE

CIVIL

STORM SEWER PROFILES

SCALE: AS SHOWN

-09

SHEET 12 OF 60



NOTES:

1. ALL WATER MAIN PIPING AND FITTINGS TO BE CLASS 350 WITH RESTRAINED JOINTS.
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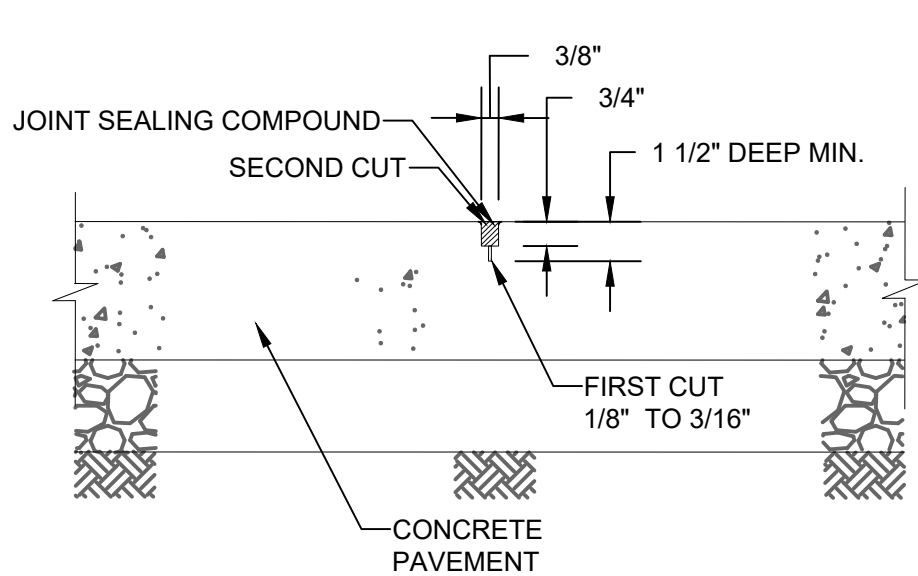
 EXISTING GROUND
 PROPOSED GROUND
 PROPOSED STORM SEWER PIPE

0 10' 20' 40'

0 5' 10'



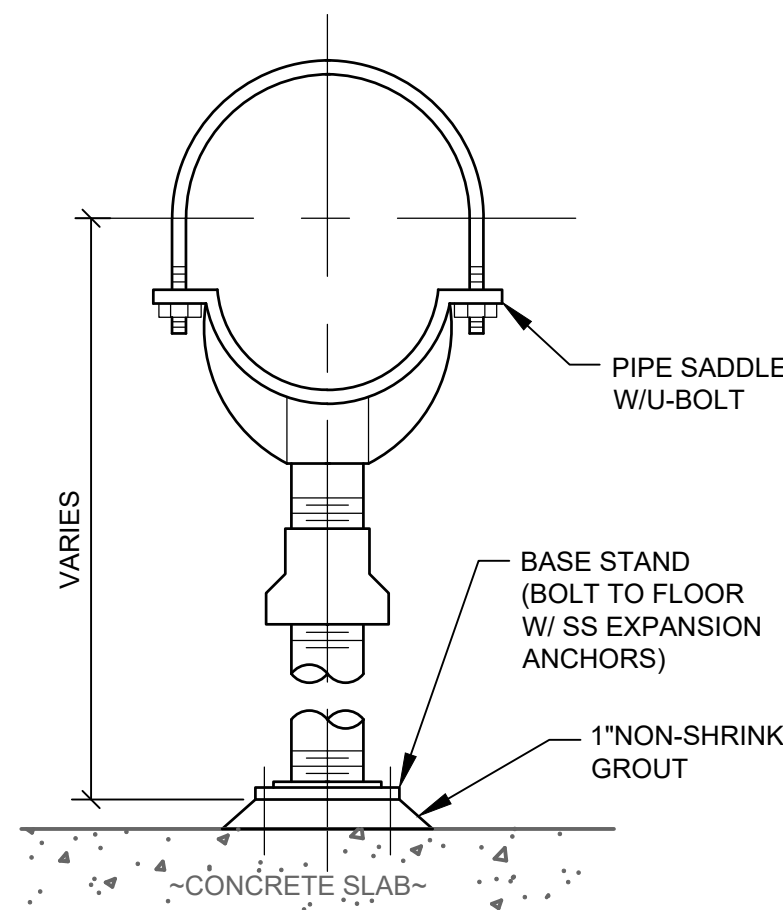
User: NNA_Spec-AUS-ACSMD08 File: C:\USERS\NNA\ACD\DCS\ARCADIS\AUS-30135792-TRUTH STUDIOS ELEVATED STORAGE TANK\PROJECT FILES\01 - WPC\DWG\11 SHEETS\11-01.DWG Scale: 1:1 Saved Date: 7/7/2023 Time: 14:45 Plot Date: N/A, Noplot: 7/7/2023 14:47 Layout: 13



NOTE:
ALLOW 30 DAYS CONC. CURING THEN FILL JOINTS W/
"DYNATRE" POLYURETHANE NON-SAG TRAFFIC GRADE
SEALANT PECORA CORP. (W/ PRIMERS) OR APPROVED
EQUAL. APPLIED IN ACCORDANCE W/ MANUFACTURERS
INSTRUCTIONS.

SAWED CONTROL JOINT

NTS



STANCHION SADDLE PIPE SUPPORT DETAIL

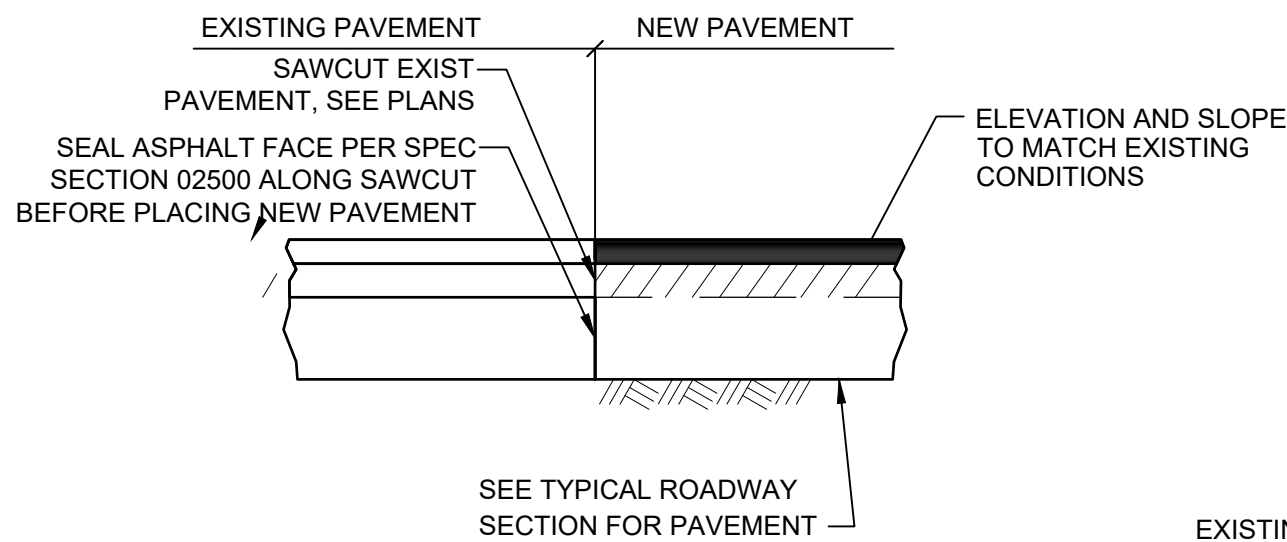
NTS

PIPE SIZE X	A	B	DEPTH C
90° BEND			
12"	1'-6"	2'-0"	3'-0"
10"	1'-4"	2'-0"	2'-6"
8"	1'-0"	1'-6"	2'-0"
6"	1'-0"	1'-0"	2'-0"
4"	0'-9"	1'-0"	1'-0"
45° BEND			
12"	1'-0"	3'-4"	1'-0"
10"	0'-9"	2'-6"	1'-0"
8"	0'-9"	1'-6"	1'-0"
6"	0'-9"	1'-0"	1'-0"
4"	0'-6"	1'-0"	1'-0"
22 1/2° BEND			
12"	1'-0"	1'-9"	1'-0"
10"	0'-9"	1'-6"	0'-10"
8"	0'-9"	1'-0"	0'-8"
6"	0'-9"	1'-0"	0'-6"
4"	0'-6"	1'-0"	0'-4"

TABLE OF DIMENSIONS FOR
HORIZONTAL & VERTICAL SAG
BENDS.

PIPE SIZE X	A	B	DEPTH C
11 1/4° BEND			
12"	1'-0"	1'-0"	1'-0"
10"	0'-9"	1'-0"	0'-10"
8"	0'-9"	1'-0"	0'-8"
6"	0'-9"	1'-0"	0'-6"
4"	0'-6"	1'-0"	0'-4"
UNBALANCED TEE & PLUG			
12"	2'-0"	4'-6"	2'-0"
10"	1'-0"	3'-0"	2'-0"
8"	1'-0"	2'-9"	1'-6"
6"	1'-0"	1'-0"	1'-0"
4"	1'-0"	1'-0"	1'-0"
TEE			
12"	2'-0"	4'-6"	2'-0"
10"	1'-9"	3'-0"	2'-0"
8"	1'-6"	2'-9"	1'-6"
6"	1'-0"	1'-0"	1'-0"
4"	1'-0"	1'-0"	1'-0"

TABLE OF DIMENSIONS FOR
HORIZONTAL & VERTICAL SAG
BENDS.



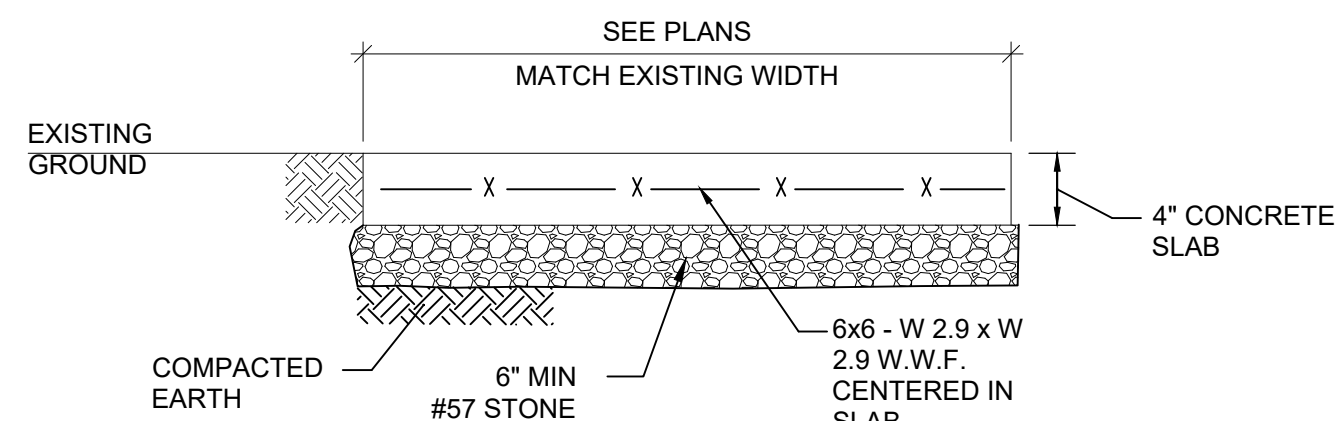
NOTES:
1. JOINT SHALL BE SMOOTH AND PATCH TO BE LEVEL FROM ONE END TO THE OTHER. IF SURFACE IS NOT SMOOTH, GRIND ASPHALT TO PROVIDE SMOOTH SURFACE.

PAVEMENT TRANSITION DETAIL

NTS

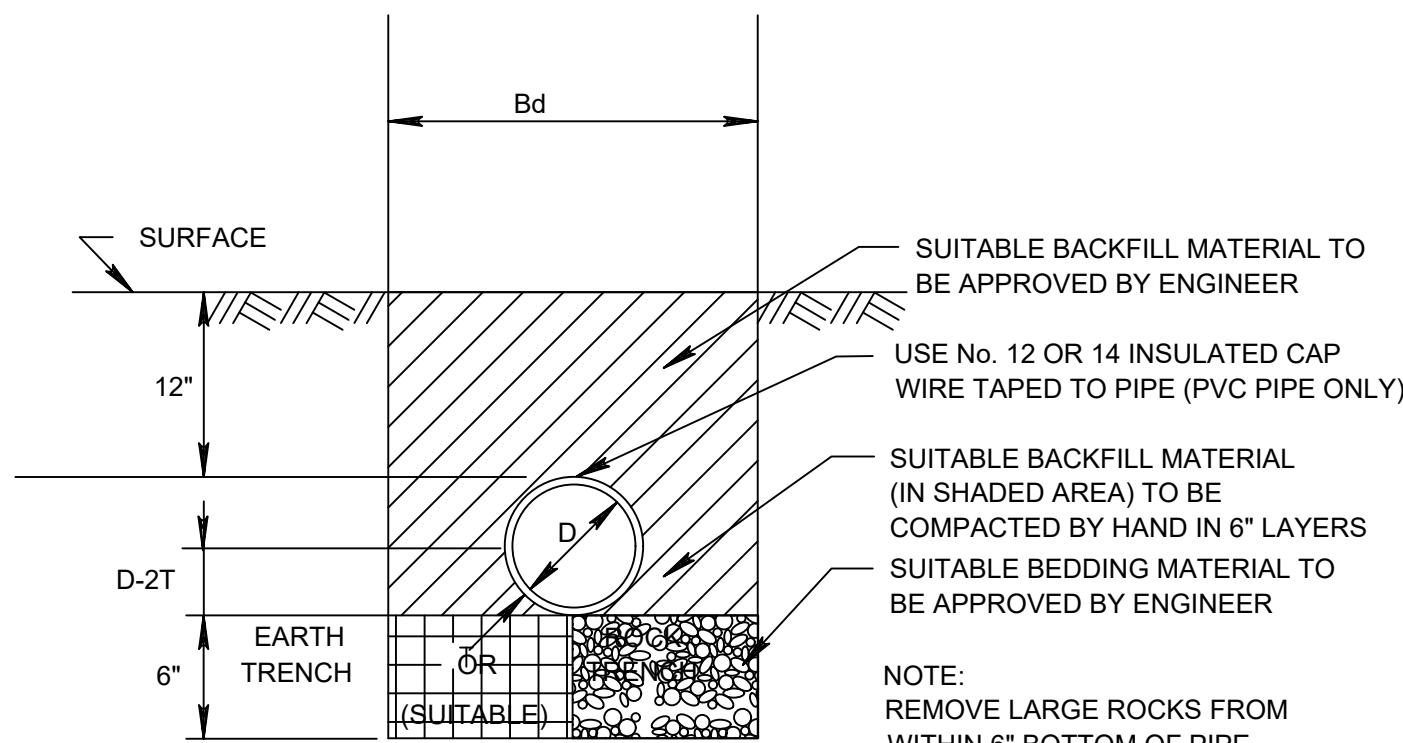
PIPE OR CASING DIA INCHES	Bd TRENCH WIDTH TOP OF PIPE FEET
4"	2.00
6"	2.00
8"	2.33
10"	2.50
12"	2.67
15"	3.00
18"	3.25
20"	3.54
24"	3.83

Bd - MAXIMUM TRENCH WIDTH AT
12" ABOVE TOP OF PIPE IF
DITCH IS CUT WIDER THAN Bd
SHOWN THE CONTRACTOR WILL BE
REQUIRED TO INCREASE BEDDING
TO COMPENSATE FOR ADDITIONAL
LOAD ON PIPE AT HIS OWN
EXPENSE.



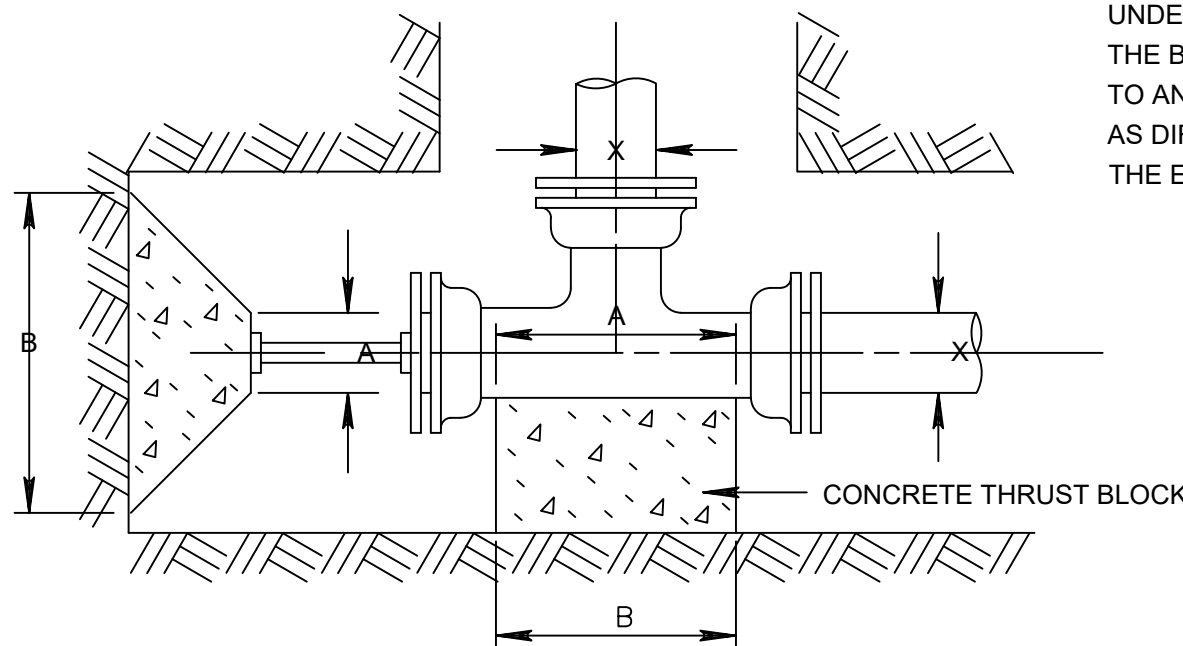
CONCRETE PAVEMENT

NTS

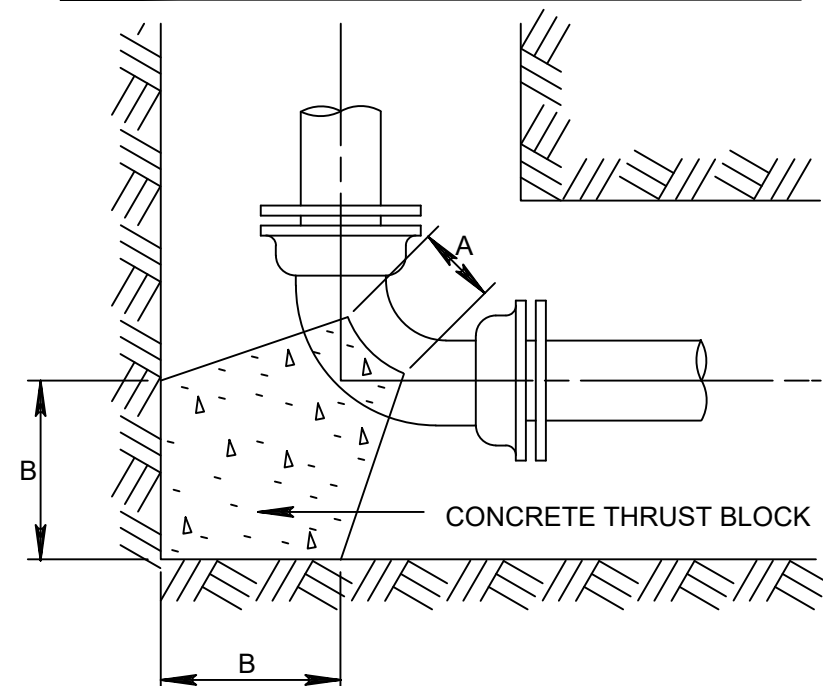


WATER LINE DETAILS FOR PVC & D.I. PIPE OPEN AREAS

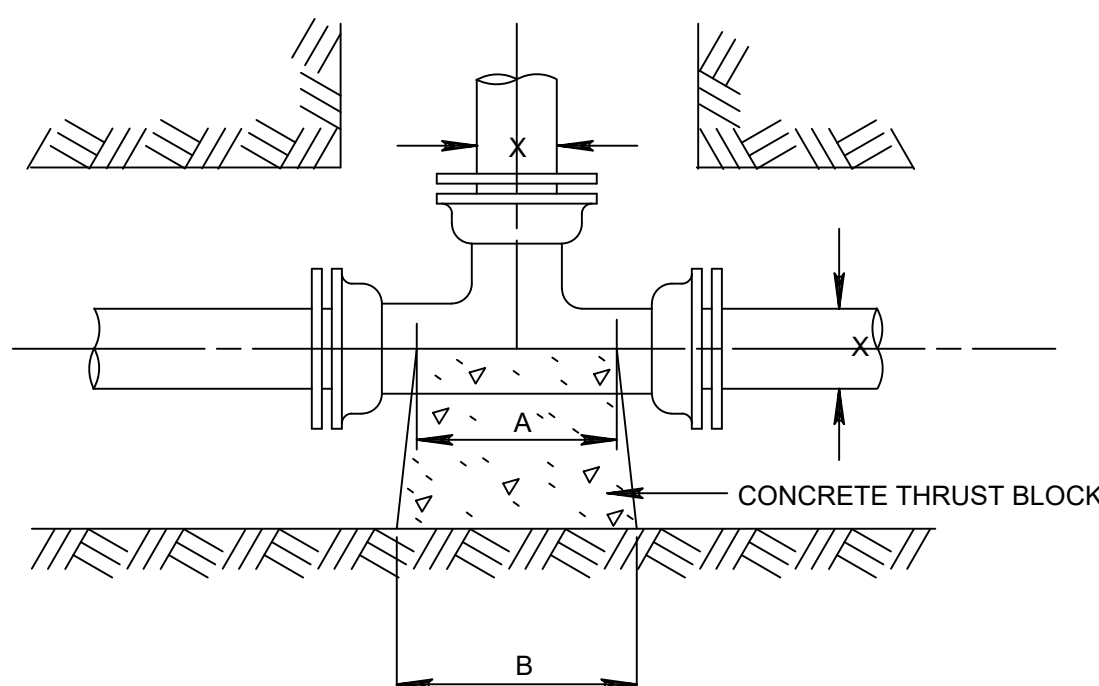
NOTE:
BLOCK MAY BE POURED
UNDER THE BEND WITH
THE BEND STRAPPED
TO ANCHOR.
AS DIRECTED BY
THE ENGINEER.



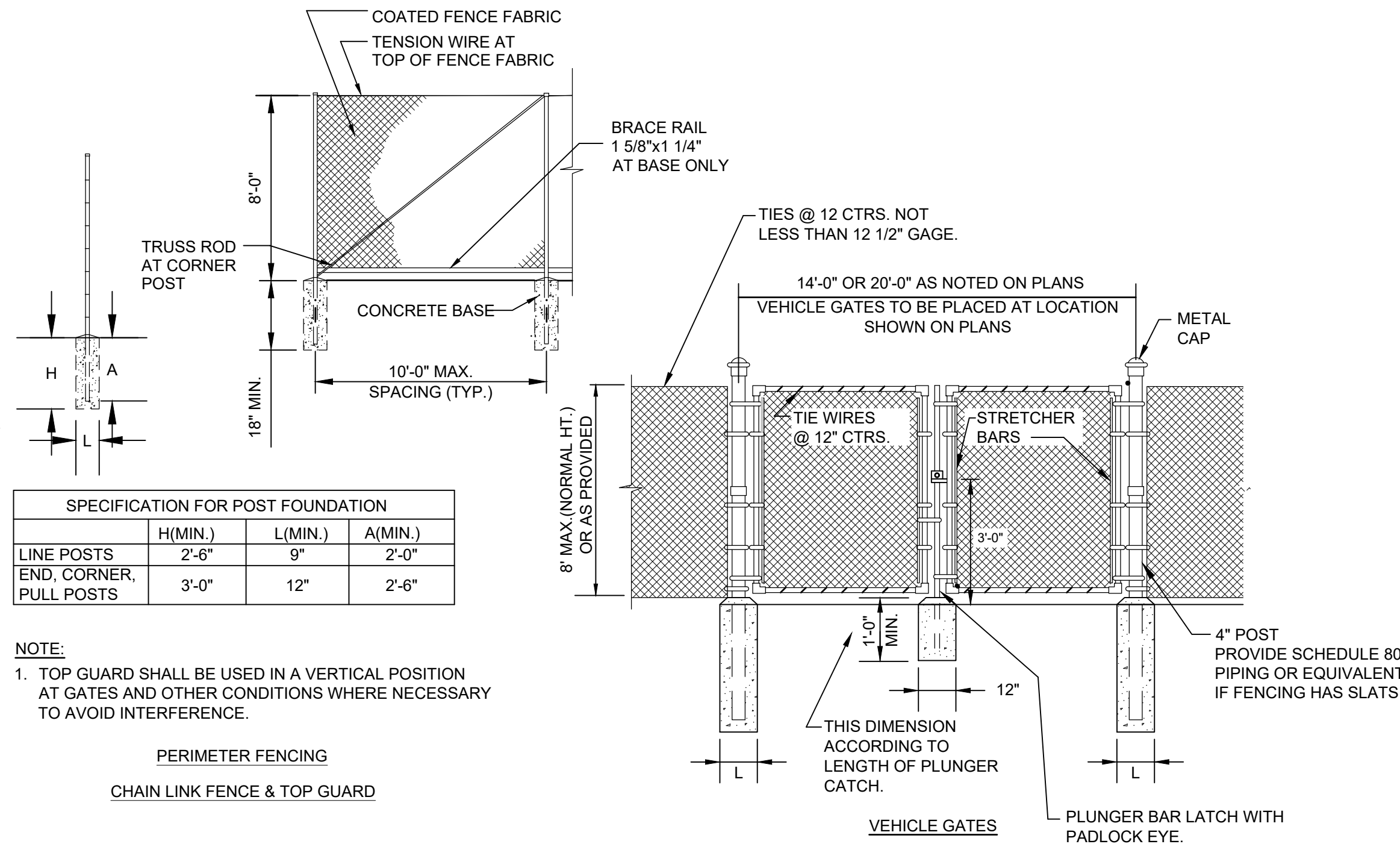
PLAN-TYPICAL PLUG



PLAN-TYPICAL HORIZONTAL BEND

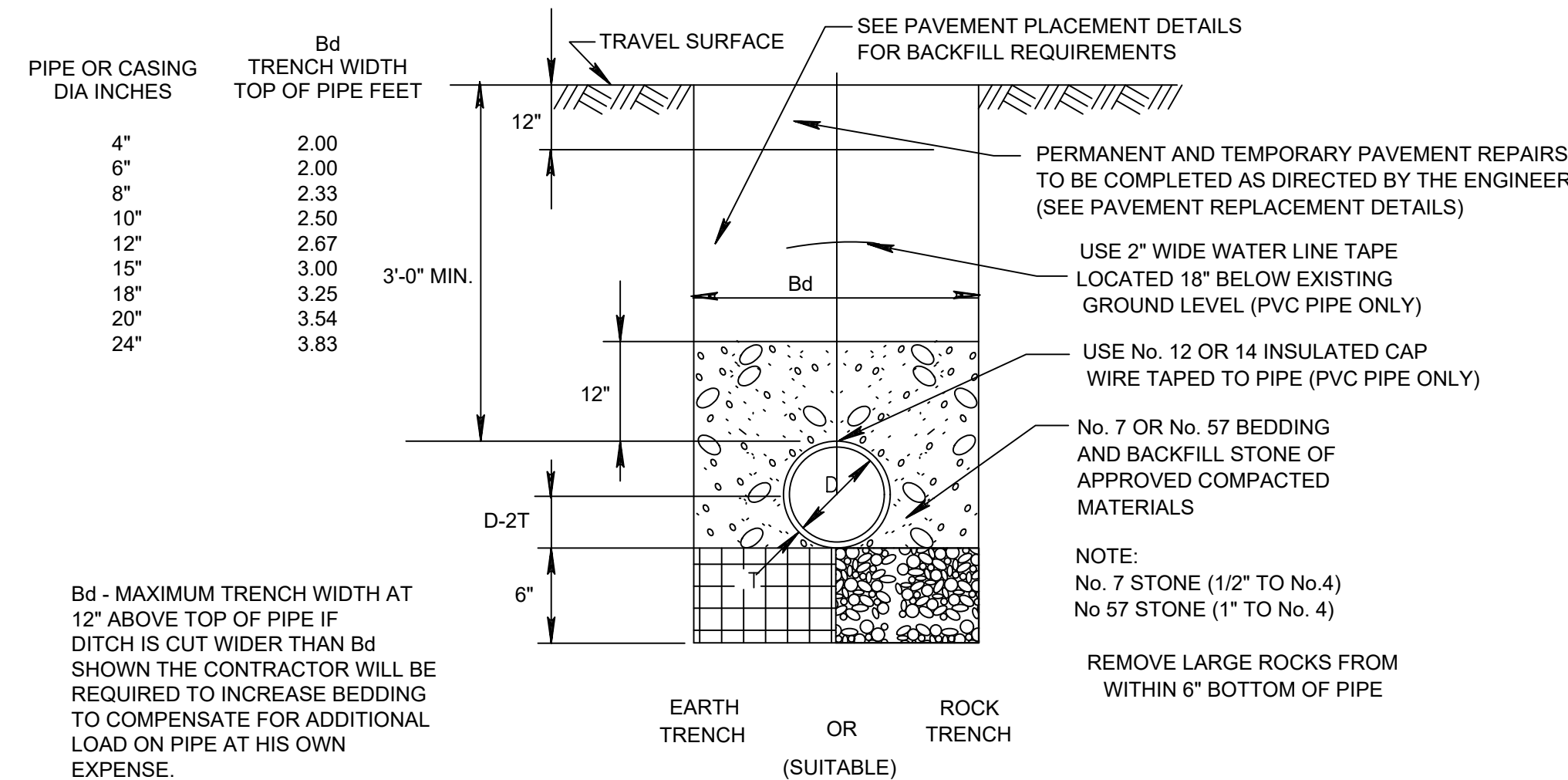


PLAN-TYPICAL TEE



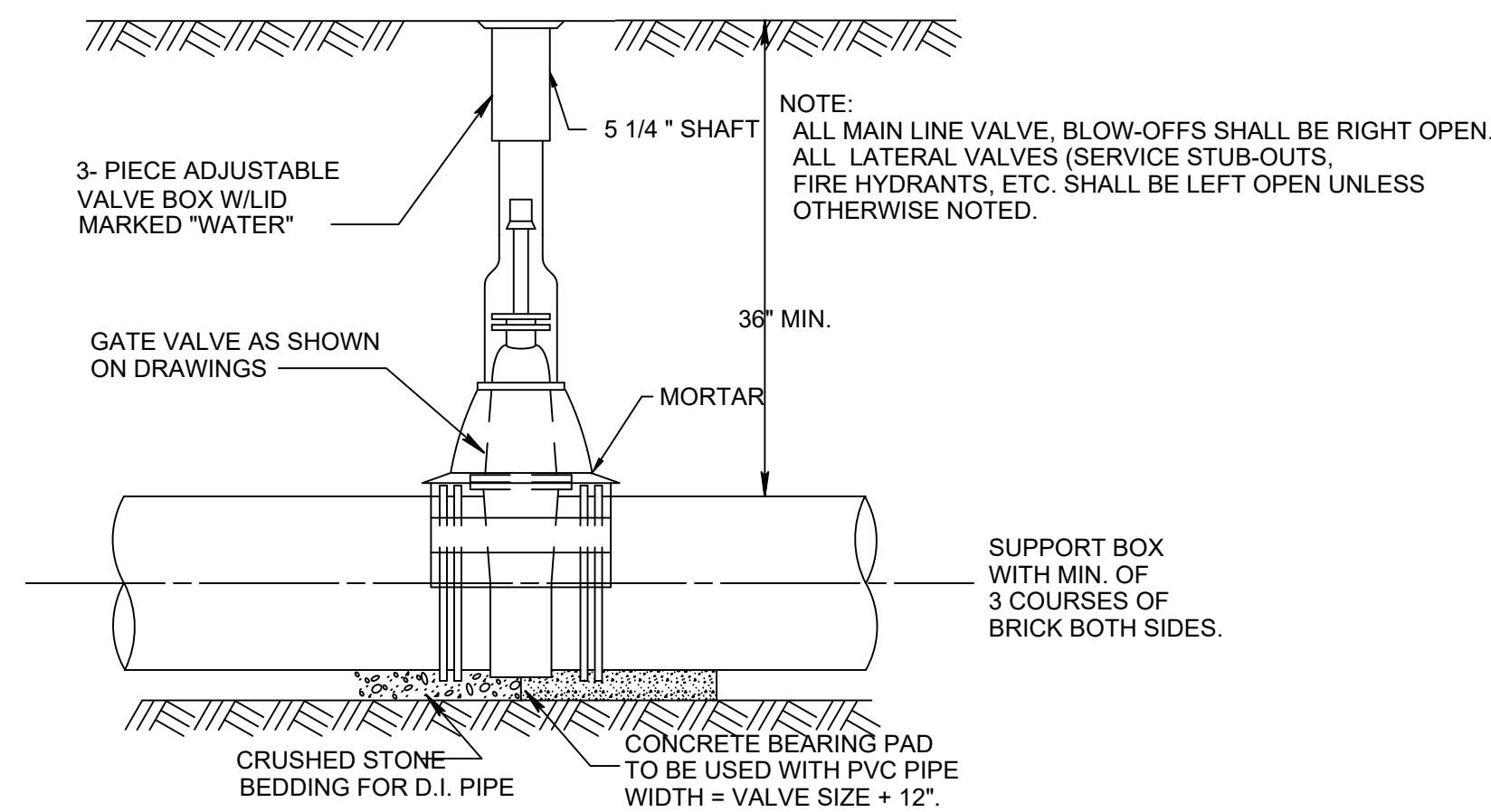
CHAIN LINK PERIMETER FENCING AND GATE DETAILS

NOT TO SCALE.



WATER LINE DETAILS FOR PVC & D.I. PIPE TRAVELED AREAS

Bd - MAXIMUM TRENCH WIDTH AT
12" ABOVE TOP OF PIPE IF
DITCH IS CUT WIDER THAN Bd
SHOWN THE CONTRACTOR WILL BE
REQUIRED TO INCREASE BEDDING
TO COMPENSATE FOR ADDITIONAL
LOAD ON PIPE AT HIS OWN
EXPENSE.



TYPICAL VALVE BOX AND GATE VALVE PIPE DIAMETER OR LESS

User: NNA_Spec-AUS-NC5MOD File: C:\Users\NNA\Documents\ARCADIS\AUS-30135792-TRILITH STUDIOS ELEVATED STORAGE TANK\PROJECT FILES\01 - WPC\CVS\SHSHEET\SSC-01.DWG Scale: 1:1 Save Date: 7/7/2023 Time: 14:49 Plot Date: N/A, Noplot: 7/7/2023, 14:50 Layout: 11

GEORGIA UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, section of conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			A linear control device constructed as a diversion perpendicular to the direction of the runoff to enhance dissipation and infiltration of runoff, while creating multiple sedimentation chambers with the employment of intermediate dikes.

CONSTRUCTION SEQUENCE:

- FOR EACH STAGE OF CONSTRUCTION THE FOLLOWING SEQUENCE WILL APPLY:
 - CONFIRM LOCATIONS OF AND CONSTRUCT/INSTALL INITIAL EROSION AND SEDIMENT CONTROL BMPs WITHIN THE LIMITS OF THE STAGE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES ON SITE. INITIAL EROSION AND SEDIMENT CONTROL BMPs SHALL INCLUDE THE FOLLOWING: CONSTRUCTION FENCING, TREE PROTECTION FENCING, SILT FENCING, INLET SEDIMENT TRAPS, SAND BAG SEDIMENT BARRIER, AND CONSTRUCTION ENTRANCES. ALL EROSION AND SEDIMENT CONTROL BMPs TO BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS.
 - CLEAR AND GRUB TO THE LIMITS REQUIRED FOR CONSTRUCTION AND REMOVE EXISTING TREES AS SHOWN ON PLANS.
 - EXCAVATE TRENCHES FOR INSTALLATION OF THE WATER INFRASTRUCTURE PIPING, AS NECESSARY, CONSTRUCT PIPE DIVERSIONS TO DIVERT AND BYPASS RUNOFF FROM EXISTING SYSTEM.
 - BEGIN INTERMEDIATE PHASE EXCAVATION AND GRADING ACTIVITIES AFTER ALL REQUIRED INITIAL EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND CONSTRUCTED.
 - BEGIN CONSTRUCTION OF WATER TANK AND WATER INFRASTRUCTURE PIPING, UTILITY RELOCATIONS, CURB AND GUTTER, DRIVEWAYS, ROADWAYS, AND REMAINING STRUCTURES AS SHOWN ON PLANS. INSTALL INLET PROTECTION AS SHOWN ON PLANS.
 - ESTABLISH FINISHED GRADES AT EARLIEST POSSIBLE DATE.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or stake barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH BMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SEEDING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Cd	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.

DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY VEGETATION AND MULCH IF LAND-DISTURBING ACTIVITIES CEASE FOR MORE THAN 14 CALENDAR DAYS IN ACCORDANCE WITH NPDES REQUIREMENTS. ONCE FINAL GRADES ARE ESTABLISHED, APPLY PERMANENT SOIL STABILIZATION IN ACCORDANCE WITH PLANS. ANY DISTURBED AREA REMAINING IDLE FOR 30 DAYS SHALL BE STABILIZED WITH PERMANENT VEGETATION.

- THE FOLLOWING SHALL APPLY AFTER ALL CONSTRUCTION STAGES ARE COMPLETE:
 - AFTER FINAL STABILIZATION FOR THE PROJECT AS DEFINED BY NPDES GAR100001 IS ACHIEVED, RETURN TO THE SITE AND REMOVE ALL TEMPORARY MEASURES INCLUDING SILT FENCES, SEDIMENT TRAPS, AND DIVERSIONS. INSTALL PERMANENT VEGETATION TO ALL AREAS (EXCEPT IMPERVIOUS SURFACES) DISTURBED BY THE TEMPORARY MEASURES.
 - REMOVE ALL TEMPORARY EROSION CONTROL MEASURES INCLUDING CONSTRUCTION FENCING, TREE PROTECTION FENCING, AND CONSTRUCTION ENTRANCES WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION.

MANAGEMENT PLAN:

- ALL EROSION CONTROL MEASURES SHALL BE INSPECTED DAILY AND AFTER EVERY RAINFALL. ALL NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO PREVENT FURTHER DAMAGE AND EROSION. STRUCTURES THAT SHALL BE INSPECTED INCLUDE:
- SEDIMENT BARRIER - SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. SEDIMENT BARRIERS SHALL BE REPLACED PER MANUFACTURER'S RECOMMENDATIONS OR THE HEIGHT OF THE PRODUCT IS NOT MAINTAINING 80% OF ITS PROPERLY INSTALLED HEIGHT.
 - STORM DRAIN INLET PROTECTION - INSPECT STONE FILTER RING INLET STRUCTURE AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE FILTER RING HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.
 - SLOPE STABILIZATION - ALL EROSION CONTROL BLANKETS AND MATTING SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION, PARTICULARLY AFTER RAINSTORMS TO CHECK FOR EROSION AND UNDERMINING. ANY DISLOCATION OR FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUTS OR BREAKAGE OCCURS, REINSTALL THE MATERIAL AFTER REPAIRING DAMAGE TO THE SLOPE OR DITCH. CONTINUE TO MONITOR THESE AREAS UNTIL THEY BECOME PERMANENTLY STABILIZED.
 - INLET SEDIMENT TRAP - TRAP SHOULD BE CLEANED OUT AFTER HEAVY RAIN EVENTS. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP.
 - SEEDING, FERTILIZING, AND MULCHING - SEEDED AREAS SHALL BE INSPECTED FOR FAILURE AND NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY.
 - CONSTRUCTION ENTRANCE/EXIT - INSPECT CONSTRUCTION ROAD SURFACE DAILY, MAINTAIN WHEN NEEDED IN A CONDITION TO PREVENT SEDIMENT AND TOPSOIL FROM LEAVING THE SITE.

SITE NOTES:

- PROJECT IS LOCATED IN FAYETTE COUNTY WITHIN THE CITY OF FAYETTEVILLE, GEORGIA.
- PROJECT LATITUDE/LONGITUDE: (33.469325, -84.511536)
- APPROXIMATE TOTAL DISTURBED ACREAGE OF THE TRILITH STUDIOS ELEVATED WATER TANK SITE IS 1.30 ACRES.
- THE RECEIVING WATER FOR THIS PROJECT IS SANDY CREEK.
- IT IS ANTICIPATED THAT THE PROJECT WILL NOT HAVE ANY BUFFER ENCROACHMENTS AND BUFFER VARIANCE WILL NOT BE REQUIRED.
- WETLAND CERTIFICATION: THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING: 1) THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED, AND 2) THE APPROPRIATE PLAN SHEET 1) DOES/DOES NOT INDICATE AREAS OF UNITED STATES ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS AS SHOWN ON THE MAPS; AND, 3) IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLAND SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS ALTERATION ("SECTION 404") PERMIT HAS BEEN OBTAINED.
- NO PORTION OF THIS SITE LIES WITHIN A SPECIAL FLOOD HAZARD ZONE "AE" OR "A". THE SITE LIES WITHIN THE FIRM MAPS OF THE CITY OF FAYETTEVILLE FLOOD INSURANCE STUDY. FIRM MAP NUMBERS: 13113C0082E AND 13113C0084E, EFFECTIVE DATE: SEPTEMBER 26, 2008.
- THE PRE-DEVELOPMENT RUNOFF COEFFICIENT (CN) IS 61 AND THE POST-DEVELOPMENT RUNOFF COEFFICIENT IS 68.
- MAINTENANCE AND TRAFFIC: THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL ROAD PERMITS FROM THE CITY OF DALTON DEPARTMENT OF PUBLIC WORKS TRANSPORTATION DIVISION INCLUDING PROVIDING ANY RESTORATION BONDS. THE CONTRACTOR SHALL PROVIDE A DETAILED PHASED TRAFFIC CONTROL PLAN BASED ON THE PROPOSED WORK PHASING AS DETERMINED BY THE CONTRACTOR.
- PRIMARY PERMITTEE & 24-HOUR CONTACT: VANESSA TIGERT FAYETTE COUNTY WATER SYSTEM ADDRESS: 245 MCDONOUGH RD. FAYETTEVILLE, GA 30214 PHONE: 770-320-6016 EMAIL: VTIGERT@FAYETTECOUNTYGA.GOV

EROSION CONTROL

- EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND SHALL COMPLY WITH THE STANDARDS SPECIFICATIONS IN THE "MANUAL FOR EROSION CONTROL AND SEDIMENT CONTROL IN GEORGIA", LATEST EDITION.
- EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE.
- PERMANENT VEGETATION SHALL BE PLACED AT ALL AREAS GRADED TO FINAL GRADE IMMEDIATELY UPON COMPLETION. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING. DURING UNSUITABLE GROWING SEASONS, MULCH WILL BE USED AS A TEMPORARY COVER (DS1). ON SLOPES THAT ARE 2:1 OR STEEPER, MULCH WILL BE ANCHORED.
- IN CONCENTRATED FLOW AREAS, ALL SLOPES STEEPER THAN 2.5:1 AND WITH THE HEIGHT TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFER, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
- SEDIMENT / EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN ANY ADDITIONAL EROSION CONTROL MEASURES AS DIRECTED BY THE GOVERNING JURISDICTION AND/OR THE ENGINEER.
- THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES AND ENSURE THAT THEY ARE PROPERLY FUNCTIONING PRIOR TO ANY LAND DISTURBANCE ACTIVITIES.
- AMENDMENTS/REVISIONS TO THE ESSAP PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- ANY DISTURBED AREAS LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- BUILDING MATERIALS AND BUILDING PRODUCTS NOT IN USE SHALL BE COVERED BY HEAVY PLASTIC.

CONSTRUCTION SCHEDULE						
ACTIVITY	MONTH 2	MONTH 4	MONTH 6	MONTH 8	MONTH 10	MONTH 12
SITE PREPARATION						
EROSION CONTROL						
TANK AND WATER INFRASTRUCTURE INSTALLATION						
PAVEMENT REPLACEMENT						
RESTORATION						

TREE PROTECTION

- WHEN DIGGING NEAR TREES, THE CONTRACTOR SHALL PRUNE ALL EXPOSED ROOTS ONE INCH IN DIAMETER OR LARGER ON THE SIDE OF THE TRENCH ADJACENT TO THE TREES. PRUNING SHALL CONSIST OF MAKING A CLEAN CUT FLUSH WITH THE SIDE OF THE TRENCH TO PROMOTE NEW ROOT GROWTH.
- THE CONTRACTOR SHALL PROTECT ALL TREES AND VEGETATION ON SITE EXCEPT AS APPROVED BY THE ENGINEER AND/OR FAYETTE COUNTY.
- PROTECT THE TRUNKS OF ANY TREES BEING PRESERVED WITHIN THE TEMPORARY OR PERMANENT EASEMENTS WITH STRAPPED OR SIMILAR PROTECTIVE DEVICE.
- TREE PROTECTION DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY CLEARING, GRUBBING OR GRADING.

POLLUTION CONTROLS

- BMPs SUCH AS CONSTRUCTION EXITS, WATERING STATIONS, AND SWEEPERS MAY BE UTILIZED TO MINIMIZE OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST.
- NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
- PETROLEUM BASED PRODUCTS: CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
- SOLVENTS: ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- CONCRETE TRUCK WASHING: WASHOUT OF CONCRETE DRUMS AT THE CONSTRUCTION SITE IS PROHIBITED. CONTRACTOR IS TO SELECT LOCATIONS ON THE SITE FOR CONCRETE WASH DOWN THAT MEET THE CONDITIONS OF THE NPDES STAND ALONE PERMIT. CONCRETE WASH DOWN AREA SHOULD BE OUTSIDE OF THE AREA THAT IS MARKED FOR EXCAVATION. CONTRACTOR SHALL SELECT AN EPA RECOMMENDED WASHOUT BMP TO BE USED AND SUBMIT LOCATIONS AND WASH OUT BMP TYPE FOR ENGINEER'S APPROVAL.
- FERTILIZER/HERBICIDES: THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.
- CONSTRUCTION MATERIALS: NO CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF ACCORDING TO APPLICABLE STATE AND LOCAL REGULATIONS.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- SOIL CLEANUP AND CONTROL PRACTICES
 - LOCAL STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES MADE AVAILABLE TO SITE PERSONNEL.
 - MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO: BROOMS, SHOVS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERTY LABELED PLASTIC AND METAL WASTE CONTAINERS.
 - SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
 - ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
 - FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
 - FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS A 1-800-424-8802.
 - FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
 - FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.
 - THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 680 GALLONS, THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY A LICENSED PROFESSIONAL.
- SANITARY UNIT WILL BE ONSITE TO COLLECT ALL SANITARY WASTE DURING CONSTRUCTION ACTIVITY.

PROJECT DESCRIPTION

THE EXISTING TRILITH STUDIOS SITE IS A MOVIE PRODUCTION CAMPUS THAT HAS MULTIPLE STAGE BUILDINGS FOR PRODUCTION. THE PROJECT AREA FOR THE WATER TANK IS ON AN EXISTING GRASSED HILL ADJACENT TO THE CEMETERY NEAR THE ENTRANCE OF THE TRILITH CAMPUS.

THE TRILITH STUDIOS IMPROVEMENTS INCLUDE CONSTRUCTION OF A WATER TANK, PUMP HOUSE, WATER LINE, AND ACCESS ROAD.



LEGAL ENTITY:
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CONSULTANTS

SEALS

ISSUE FOR BID

FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER
SYSTEM



FCWS-TRILITH STUDIOS
ELEVATED WATER
STORAGE TANK

400 VETERANS PARKWAY
FAYETTEVILLE, GA 30214

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PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: ESC-01

DESIGNED BY: TAYLOR H. TITTLE, PE

DRAWN BY: MADISON A. SMITH, EIT

CHECKED BY: DAVID A. WILSON, PE

SHEET TITLE

EROSION & SEDIMENT CONTROL

EROSION & SEDIMENT
CONTROL
LEGEND & NOTES

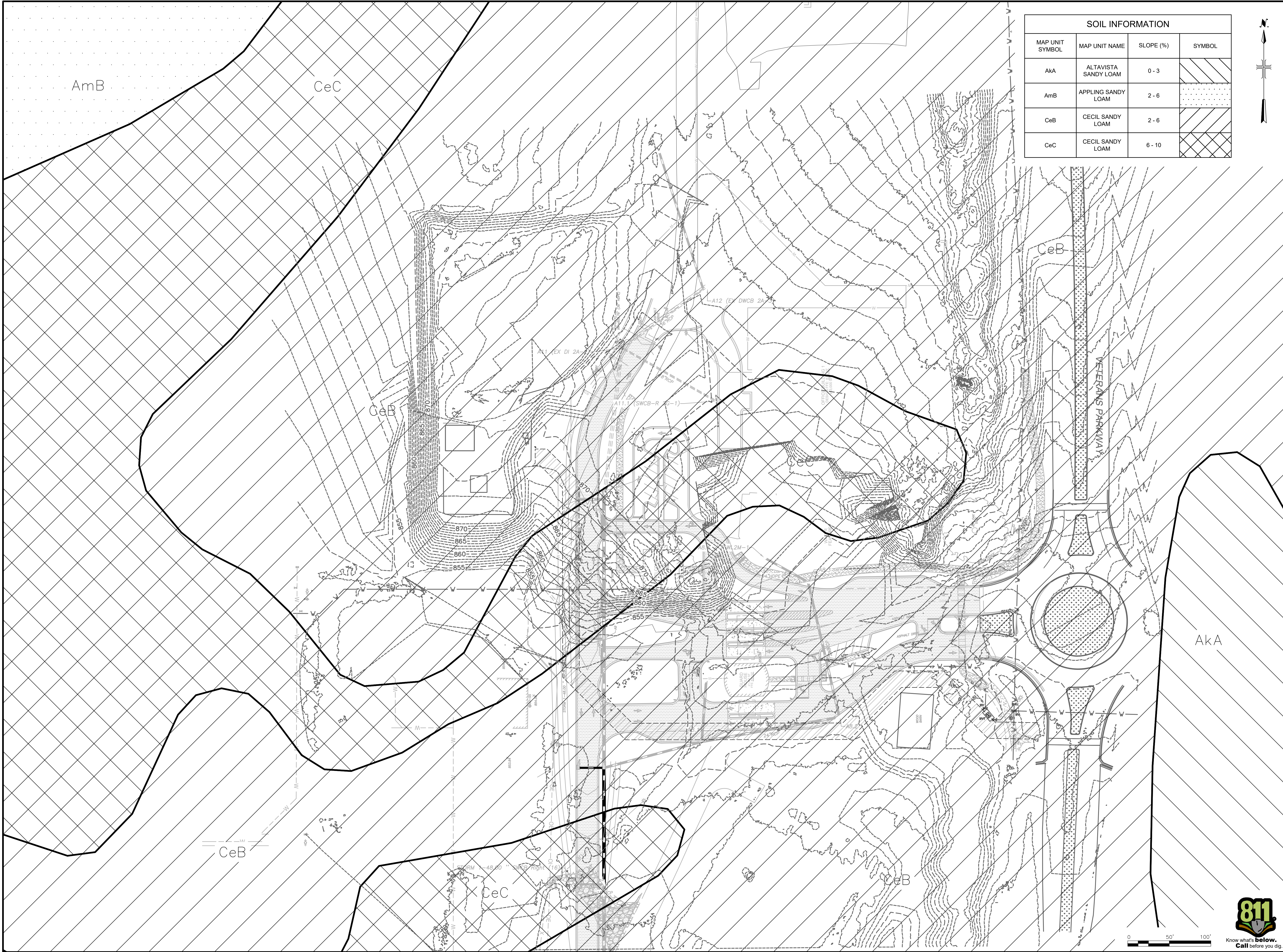
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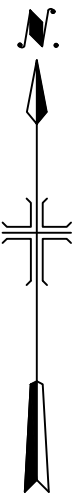
SHEET 14 OF 60



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SOIL INFORMATION			
MAP UNIT SYMBOL	MAP UNIT NAME	SLOPE (%)	SYMBOL
AkA	ALTAVISTA SANDY LOAM	0 - 3	
AmB	APPLING SANDY LOAM	2 - 6	
CeB	CECIL SANDY LOAM	2 - 6	
CeC	CECIL SANDY LOAM	6 - 10	



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FCWS-TRILITH STUDIOS
ELEVATED WATER STORAGE TANK

400 VETERANS PARKWAY
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FILE NAME: ESC-04

DESIGNED BY: TAYLOR H. TITTLE, PE

DRAWN BY: MADISON A. SMITH, EIT

CHECKED BY: DAVID A. WILSON, PE

SHEET TITLE

CIVIL

SOIL MAP

SCALE: AS SHOWN

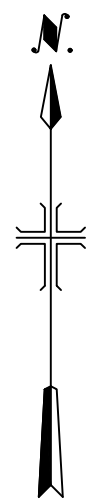
ESC-04

SHEET 17 OF 60



STORMWATER MONITORING POINT (MP)				
MP#	SITE SIZE (AC)	SURFACE WATER DRAINAGE AREA (SQ.MI.)	APPENDIX B NTU VALUE	WARM OR COLD WATER STREAM
1	1.30	0.00203	200	WARM

SEDIMENT STORAGE DESIGN TABLE					
TOTAL DRAINAGE AREA (ACRES)	DRAINAGE AREA (ACRES)	REQUIRED SEDIMENT STORAGE VOLUME (CY)	TOTAL STORAGE VOLUME PROVIDED (CY)	SILT FENCE	
				LF @ 3:1 (0.25 CY/LF)	LF @ 6:1 (0.50 CY/LF)
0.75	1.30	87	490	235.50	254.10



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FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER
SYSTEM



FCWS-TRILITH STUDIOS
ELEVATED WATER
STORAGE TANK

400 VETERANS PARKWAY
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DRAWN BY: MADISON A. SMITH, EIT

CHECKED BY: DAVID A. WILSON, PE

SHEET TITLE

CIVIL

NPDES COMPLIANCE
MAP

SCALE: AS SHOWN

ESC-05

SHEET 18 OF 60

- NOTES:
- THE TOTAL DRAINAGE BASIN AREA IS 0.75 ACRES.
 - THE EXISTING TRILITH STUDIOS ENTRANCE AREA SHOWN IS BASED ON THE PROPOSED DESIGN BY OTHERS.

--- -800 --- EXISTING MAJOR CONTOUR
--- -801 --- EXISTING MINOR CONTOUR
--- SAN --- EXISTING SANITARY SEWER
--- UP --- EXISTING UNDERGROUND POWER
--- W --- EXISTING WATER LINE
--- UC --- EXISTING UNDERGROUND COMMUNICATIONS
--- --- EXISTING STORM SYSTEM

LEGEND



EXISTING LANDSCAPE



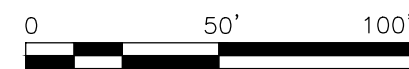
EXISTING SIDEWALK

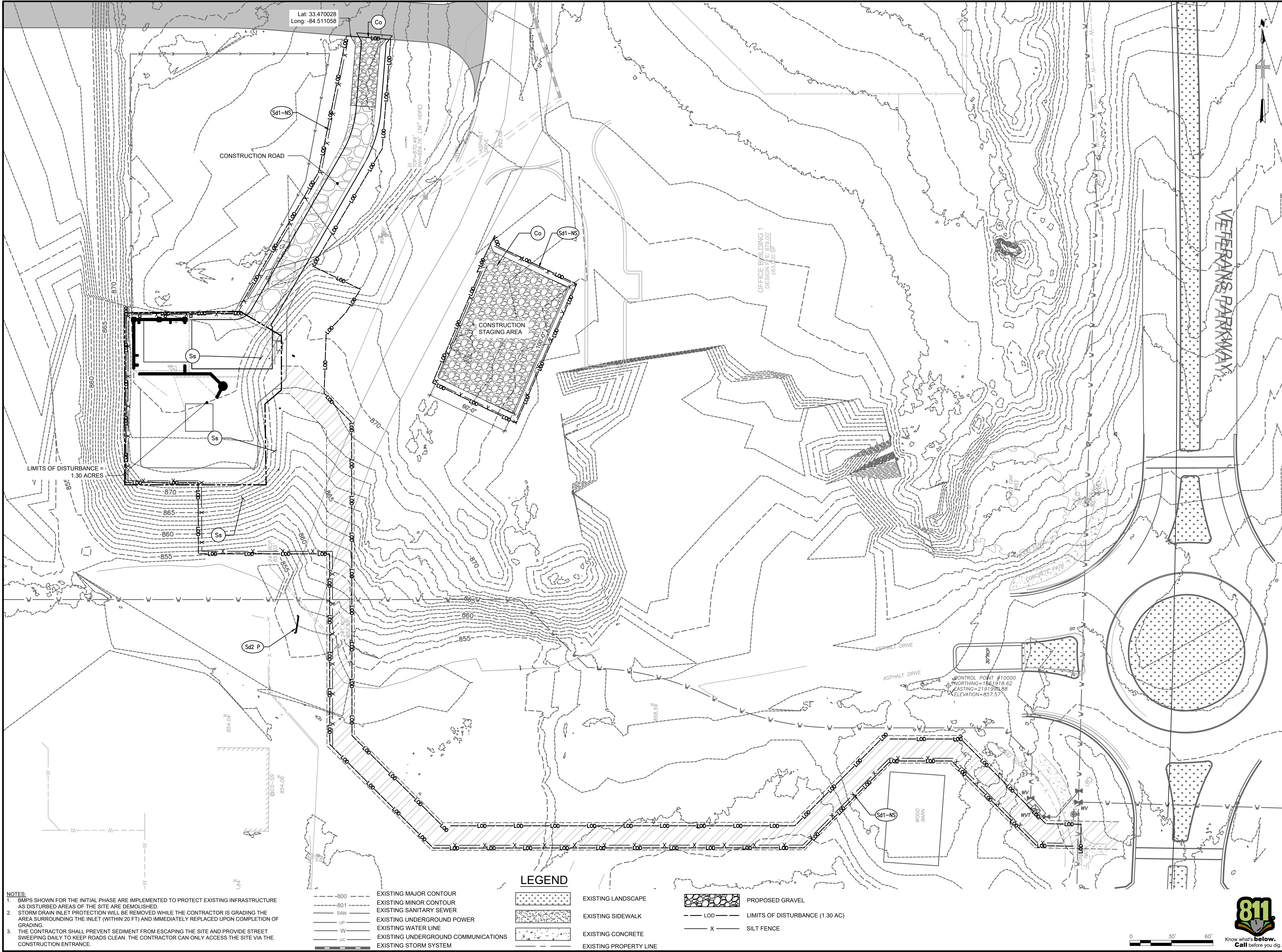


EXISTING CONCRETE



EXISTING PROPERTY LINE





- NOTES:
1. BMPs SHOWN FOR THE INITIAL PHASE ARE IMPLEMENTED TO PROTECT EXISTING INFRASTRUCTURE AS DISTURBED AREAS OF THE SITE ARE DEMOLISHED.
 2. STORM DRAIN INLET PROTECTION WILL BE REMOVED WHILE THE CONTRACTOR IS GRADING THE AREA SURROUNDING THE INLET (WITHIN 20 FT) AND IMMEDIATELY REPLACED UPON COMPLETION OF GRADING.
 3. THE CONTRACTOR SHALL PREVENT SEDIMENT FROM ESCAPING THE SITE AND PROVIDE STREET SWEEPING DAILY TO KEEP ROADS CLEAN. THE CONTRACTOR CAN ONLY ACCESS THE SITE VIA THE CONSTRUCTION ENTRANCE.

- 800--- EXISTING MAJOR CONTOUR
---801--- EXISTING MINOR CONTOUR
---SAN--- EXISTING SANITARY SEWER
---UP--- EXISTING UNDERGROUND POWER
---W--- EXISTING WATER LINE
---UC--- EXISTING UNDERGROUND COMMUNICATIONS
---X--- EXISTING STORM SYSTEM

LEGEND

- EXISTING LANDSCAPE
EXISTING SIDEWALK
EXISTING CONCRETE
EXISTING PROPERTY LINE

- PROPOSED GRAVEL
LIMITS OF DISTURBANCE (1.30 AC)
SILT FENCE

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FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER SYSTEM

FAYETTE
County
Water

FCWS-TRILITH STUDIOS
ELEVATED WATER STORAGE TANK

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FILE NAME: ESC-06
DESIGNED BY: TAYLOR H. TITTLE, PE
DRAWN BY: MADISON A. SMITH, EIT
CHECKED BY: DAVID A. WILSON, PE

SHEET TITLE
CIVIL

EROSION & SEDIMENT CONTROL INITIAL PHASE

SCALE: AS SHOWN

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SHEET TITLE

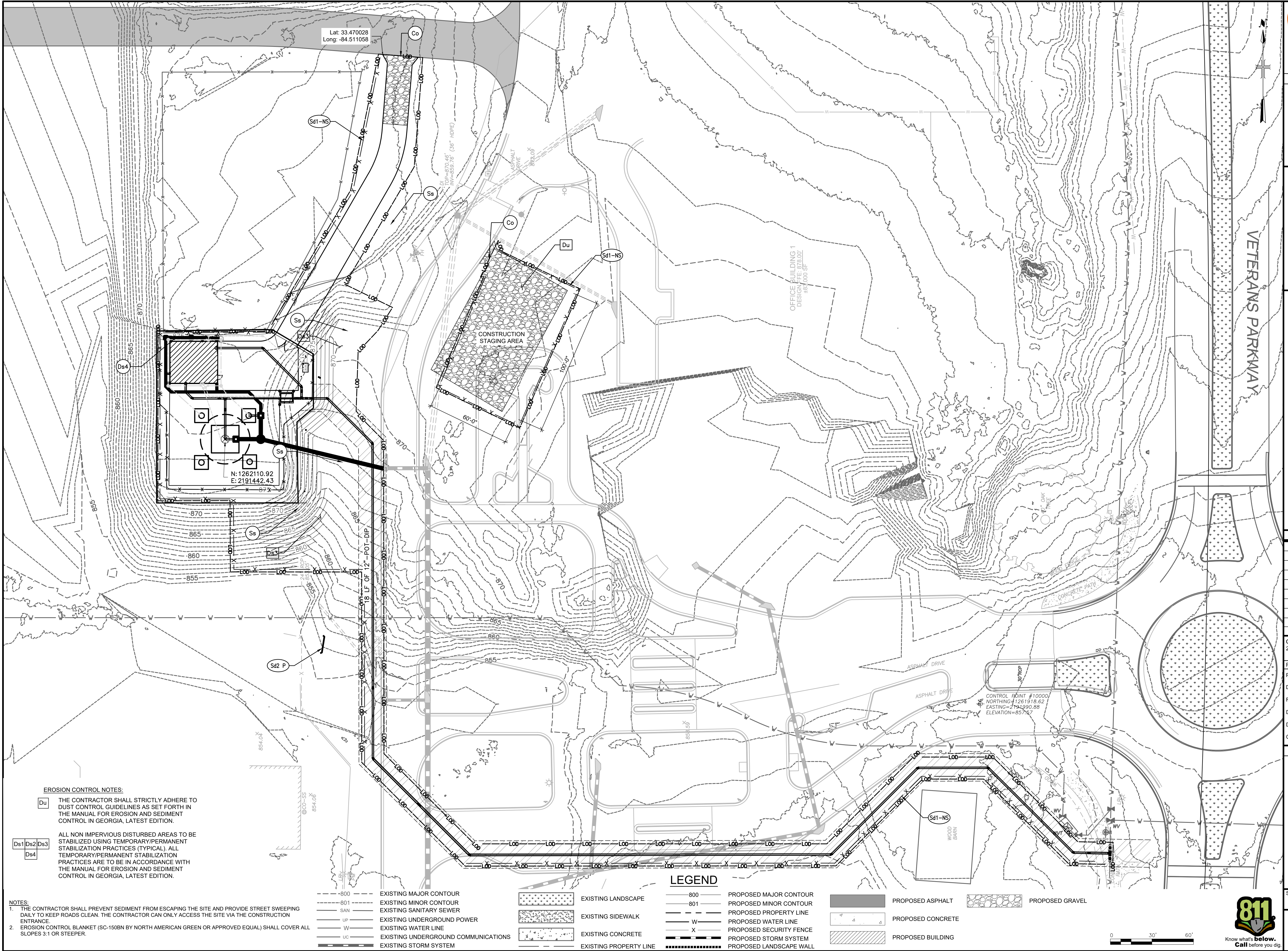
CIVIL

EROSION & SEDIMENT CONTROL INTERMEDIATE PHASE

SCALE: AS SHOWN

SC-07

SHEET 20 OF 60





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DRAWN BY: MADISON A. SMITH, EIT

CHECKED BY: DAVID A. WILSON, PE

SHEET TITLE

CIVIL

EROSION & SEDIMENT CONTROL FINAL PHASE

SCALE: AS SHOWN

ESC-08

SHEET 21 OF 60

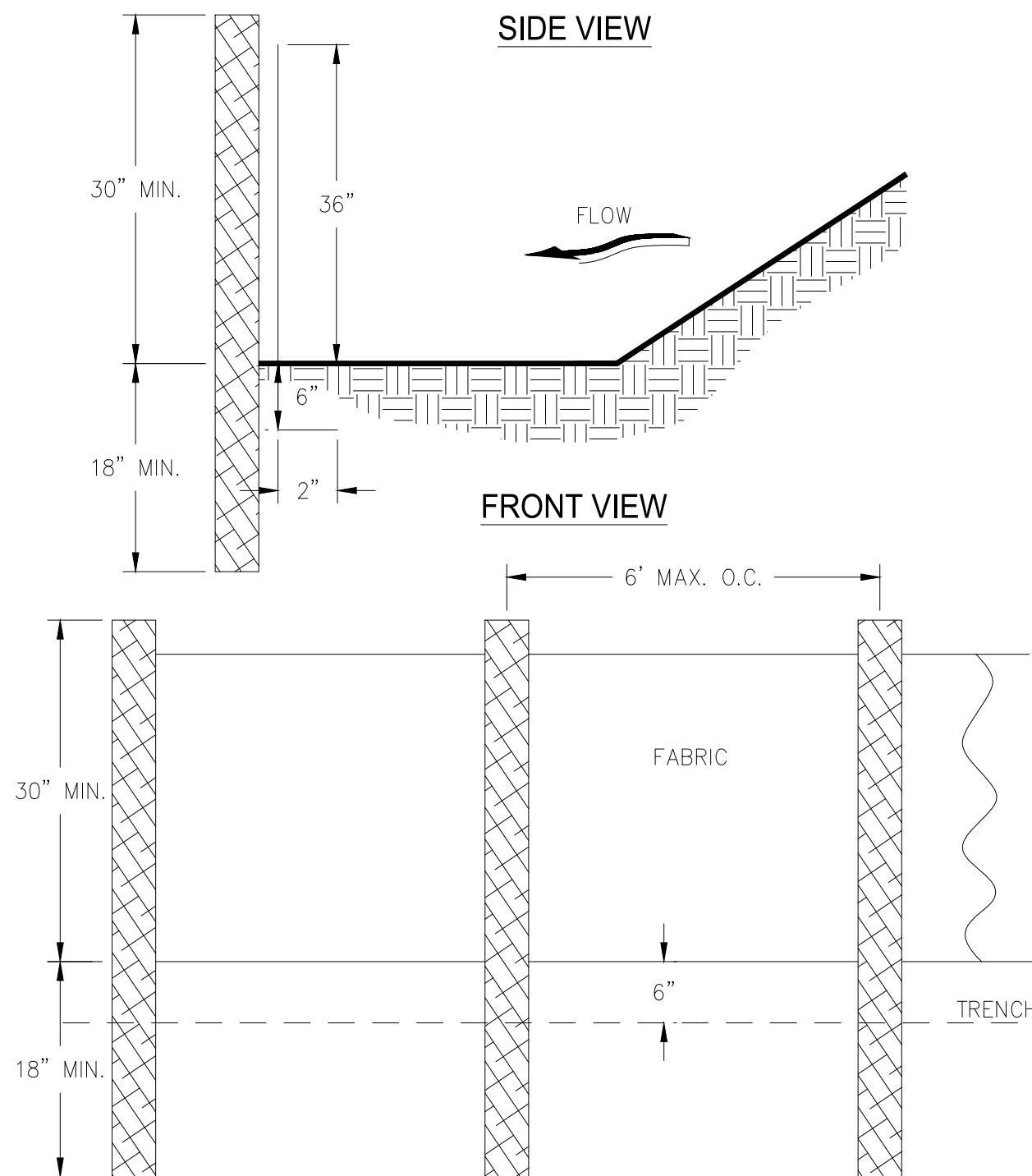


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TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

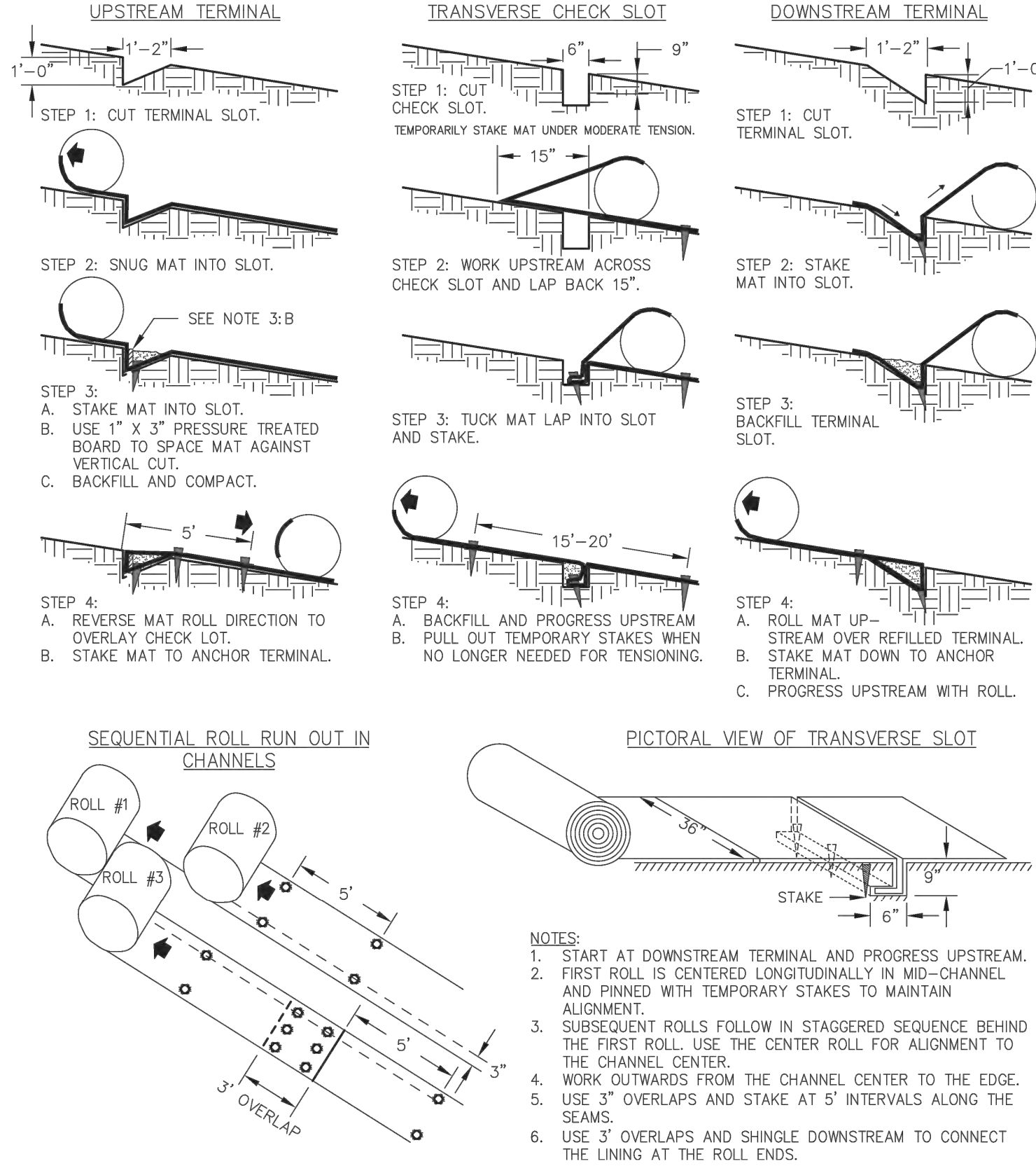
BLANKET AND MATTING CROSS-SECTIONS



- NOTES:
- USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
 - SILT FENCE - TYPE NON-SENSITIVE (SD1-NS) SHALL MEET THE SPECIFICATIONS OF SILT FENCE, TYPE A AS DESCRIBED IN SECTION 171 OF THE "GDOT STANDARD SPECIFICATIONS CONSTRUCTION OF TRANSPORTATION SYSTEMS", 2013 EDITION.
 - SD1-NS = TYPE A SILT FENCE.

SILT FENCE - TYPE NON-SENSITIVE

Sd1-NS
N.T.S.



Ss

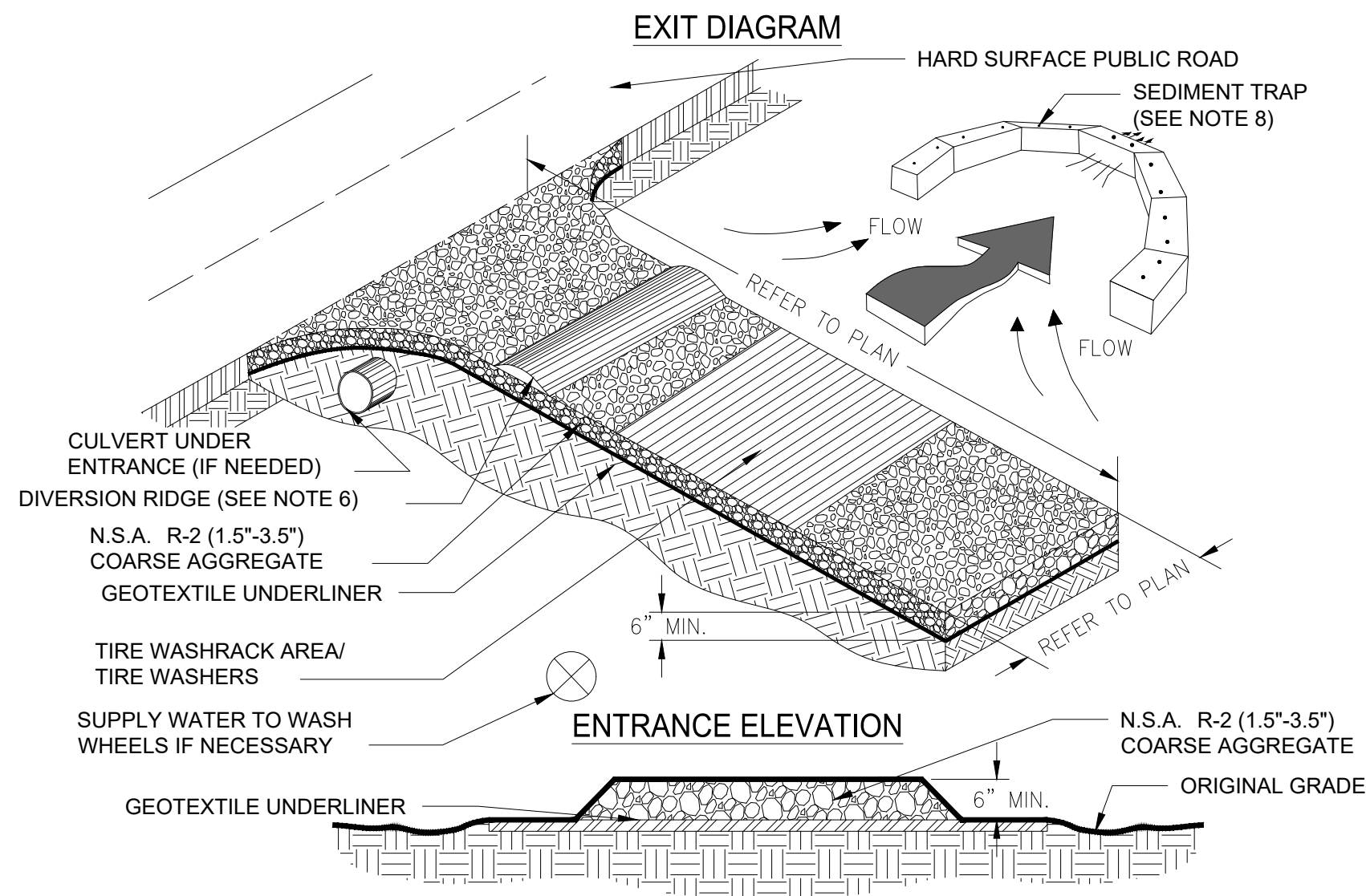
Figure 6-10.1 - Typical Installation Guidelines for Matting and Blankets

SLOPE STABILIZATION

- DEFINITION**
- CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.
- CONDITIONS**
- THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.
- METHOD AND MATERIALS**
- A. TEMPORARY METHODS
- MULCHES. SEE STANDARD DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO STANDARD TB-TACKIFIERS AND BINDERS. RESINS SUCH AS CURASOL OR TERRATAK SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- VEGETATIVE COVER. SEE STANDARD DS2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).
- SPRAY-ON ADHESIVES. THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. REFER TO STANDARD TB-TACKIFIERS AND BINDERS.
- TILLAGE. THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- IRRIGATION. THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.
- BARRIERS. SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.
- CALCIUM CHLORIDE. APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.
- B. PERMANENT METHODS
- PERMANENT VEGETATION. SEE STANDARD DS3 -DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
- TOPSOILING. THIS ENTAILS COVERING THE SURFACE WITH LESS EROSION SOIL MATERIAL. SEE STANDARD TP - TOPSOILING.
- STONE. COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE STANDARD OR-CONSTRUCTION ROAD STABILIZATION.

Du

DUST CONTROL ON DISTURBED AREAS

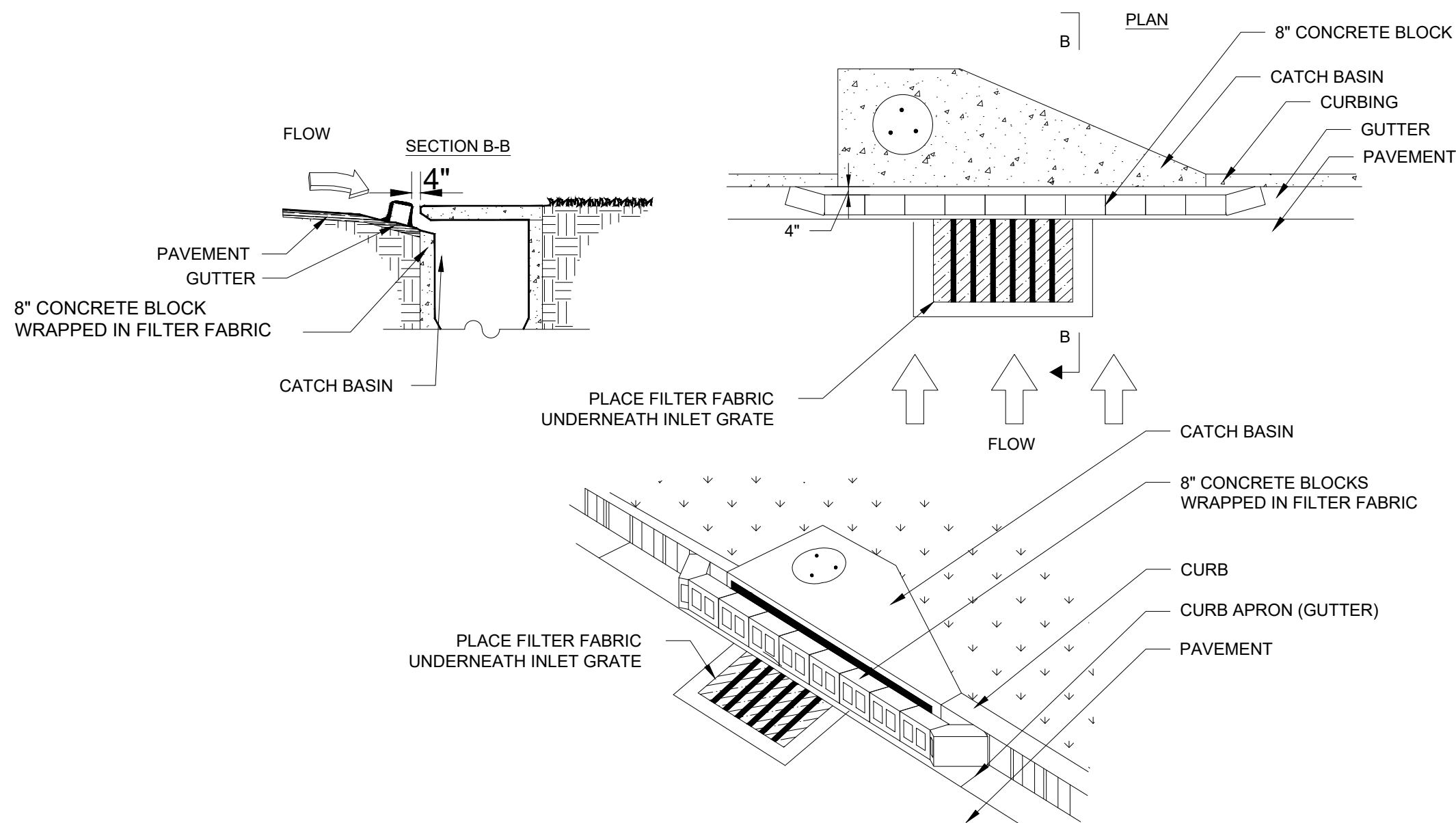


- NOTES:
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 - REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 - AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
 - GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
 - PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
 - A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 - INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 - WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
 - WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
 - MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Co

TEMPORARY CONSTRUCTION EXIT

SCALE: NONE



- NOTES:
- INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
 - WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
 - FACE OPENINGS IN BLOCKS OUTWARD.
 - LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
 - INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

Sd2-P

CURB INLET FILTER

SCALE: N.T.S.



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CONSULTANTS

SEALS

ISSUE FOR BID

FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER
SYSTEM



FCWS-TRILITH STUDIOS
ELEVATED WATER
STORAGE TANK

400 VETERANS PARKWAY
FAYETTEVILLE, GA 30214

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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: ESC-09

DESIGNED BY: TAYLOR H. TITTLE, PE

DRAWN BY: MADISON A. SMITH, EIT

CHECKED BY: DAVID A. WILSON, PE

SHEET TITLE

EROSION & SEDIMENT CONTROL

EROSION & SEDIMENT
CONTROL DETAILS
(SHEET 1 OF 2)

SCALE: AS SHOWN

ESC-09

SHEET 22 OF 60



User: NNA_Spec-AUS-ACSMD00 File: C:\Users\NNA\Documents\ARCADIS\AUS-30135792-TRILITH STUDIOS ELEVATED STORAGE TANK\PROJECT FILES\01 - WPCIVIL\SHEETS\ESC-06.DWG Scale: 1:1 Saved Date: 7/7/2023 Time: 15:21 Plot Date: N/A, Nogat: 7/7/2023, 15:21 Layout: 20

SEEDING SCHEDULE TEMPORARY COVER

SPECIES	BROADCAST RATES - PLS PER ACRE	BROADCAST RATES - PLS PER 1000 SQ. FT.	RESOURCE AREA*3	PLANTING DATES (SOLID LINES INDICATE OPTIMUM DATES, DOTTED LINES INDICATED PERMISSIBLE BUT MARGINAL DATES.)
BARLEY (HORDEUM VULGARE)			M-L	J F M A M J J A S O N D
ALONE	3 BU. (144 LBS.)	3.3 LB.	P	
IN MIXTURES	½ BU. (24 LBS.)	0.6 LB.	C	J F M A M J J A S O N D
LESPEDEZA, ANNUAL (LEZPEDEZA STRIATA)			M-L	
ALONE	40 LBS.	0.9 LB.	P	
IN MIXTURES	10 LBS.	0.2 LB.	C	J F M A M J J A S O N D
LOVEGRASS, WEEPING (ERAGROSTIS CURVULA)			M-L	
ALONE	4 LBS.	0.1 LB.	P	
IN MIXTURES	2 LBS.	0.05 LB.	C	J F M A M J J A S O N D
MILLET, BROWNTOP (Panicum fasciculatum)			M-L	
ALONE	40 LBS.	0.9 LB.	P	
IN MIXTURES	10 LBS.	0.2 LB.	C	J F M A M J J A S O N D
MILLET, PEARL (PENNESETUM GLAUCUM)			M-L	
ALONE	50 LBS.	1.1 LB.	P	
IN MIXTURES			C	J F M A M J J A S O N D
OATS (Avena sativa)			M-L	
ALONE	4 BU. (128 LBS.)	2.9 LB.	P	
IN MIXTURES	1 BU. (32 LBS.)	0.7 LB.	C	J F M A M J J A S O N D
RYE (SECALE CEREALE)			M-L	
ALONE	3 BU. (168 LBS.)	3.9 LB.	P	
IN MIXTURES	½ BU. (28 LBS.)	0.6 LB.	C	J F M A M J J A S O N D
TRITICALE (X-TRITICOSECALE)			C	
ALONE	3 BU. (144 LBS.)	3.3 LB.	P	
IN MIXTURES	½ BU. (24 LBS.)	0.6 LB.	C	J F M A M J J A S O N D
RYEGRASS, ANNUAL (LOLIUM TEMULENTUM)			M-L	
ALONE	40 LBS.	0.9 LB.	P	
IN MIXTURES			C	J F M A M J J A S O N D
SUDANGRASS (SORGHUM SUDANESE)			M-L	
ALONE	60 LBS.	1.4 LB.	P	
IN MIXTURES			C	J F M A M J J A S O N D
WHEAT (TRITICUM AESTIVUM)			M-L	
ALONE	3 BU. (180 LBS.)	4.1 LB.	P	
IN MIXTURES	½ BU. (30 LBS.)	0.7 LB.	C	

LIME: APPLY AT A RATE OF ONE TON PER ACRE
FERTILIZER: APPLY 500-700 POUNDS OF 10-10-10 OR EQUIVALENT PER ACRE

FERTILIZER REQUIREMENTS PERMANENT COVER

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. COOL SEASON GRASSES	FIRST	6-12-12	1500 lbs./AC.	50-100 lbs./AC. 1/2/
	SECOND	6-12-12	1000 lbs./AC.	---
	MAINTENANCE	10-10-10	400 lbs./AC.	30 lbs./AC.
2. COOL SEASON GRASSES & LEGUMES	FIRST	6-12-12	1500 lbs./AC.	0-50 lbs./AC. 1/
	SECOND	10-10-10	1000 lbs./AC.	---
	MAINTENANCE	10-10-10	400 lbs./AC.	---
3. GROUND COVERS	FIRST	10-10-10	1300 lbs./AC. 3/	---
	SECOND	10-10-10	1300 lbs./AC. 3/	---
	MAINTENANCE	10-10-10	1100 lbs./AC.	---
4. PINE SEEDLINGS	FIRST	20-10-5	ONE 21-GRAM PELLET PER SEEDLING PLACED IN THE CLOSING HOLE	---
5. SHRU LESPEDEZA	FIRST	0-10-10	700 lbs./AC.	---
	MAINTENANCE	0-10-10	700 lbs./AC. 4/	---
6. TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10-10-10	500 lbs./AC.	30 lbs./AC. 5/
7. WARM SEASON GRASSES	FIRST	6-12-12	1500 lbs./AC.	50-100 lbs./AC. 2/6/
	SECOND	6-12-12	800 lbs./AC.	50-100 lbs./AC. 2/
	MAINTENANCE	10-10-10	400 lbs./AC.	30 lbs./AC.
8. WARM SEASON GRASSES & LEGUMES	FIRST	6-12-12	1500 lbs./AC.	50 lbs./AC. 6/
	SECOND	0-10-10	1000 lbs./AC.	---
	MAINTENANCE	0-10-10	400 lbs./AC.	---

LIME: APPLY AT A RATE OF ONE TON PER ACRE
1/ APPLY IN SPRING FOLLOWING SEEDING.
2/ APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.
3/ APPLY IN 3 SPLIT APPLICATIONS.
4/ APPLY WHEN PLANTS ARE PRUNED.
5/ APPLY TO GRASS SPECIES ONLY.
6/ APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

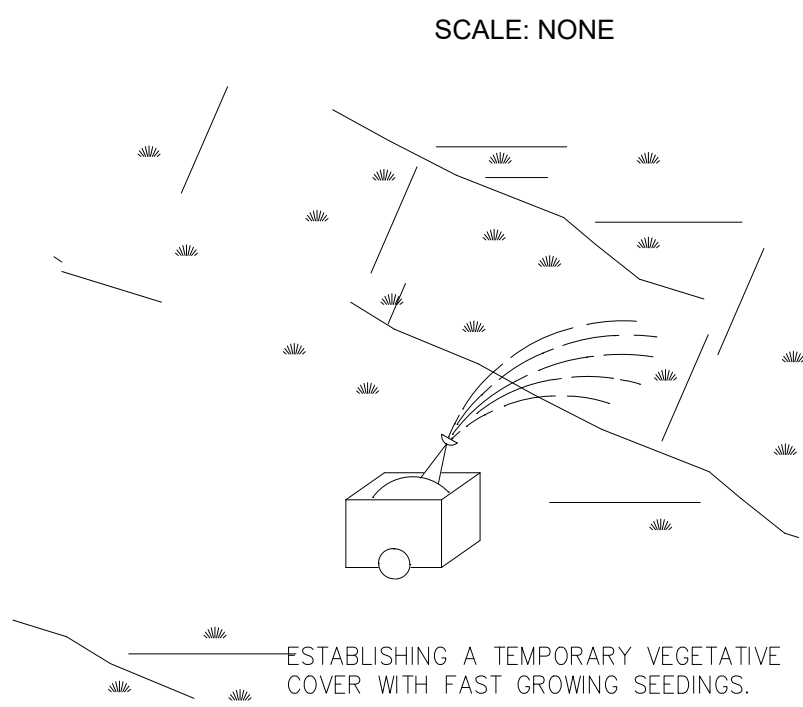


ESTABLISHING A TEMPORARY PROTECTION FOR DISTURBED AREAS USING SPECIFIC MULCH MATERIALS.

- MULCH MATERIALS SHALL CONSIST OF DRY STRAW OR HAY AT 2.5 TONS PER ACRE, WOOD CHIPS AT 6 TO 9 TONS PER ACRE, EROSION CONTROL MATTING OR NETTING, OR POLYETHYLENE FILM.
- THIS STANDARD APPLIED TO GRADES OR CLEARED AREAS WHICH MAY BE SUBJECTED TO EROSION CONTROL FOR 6 MONTHS OR LESS, AND CAN BE STABILIZED WITH A MULCH COVER.

Ds2

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDINGS)



- SCALE: NONE
- < 12 MONTHS OR UNTIL ESTABLISHMENT OF FINISHED GRADE OR PERMANENT VEGETATION.
 - SITE PREPARATION:
 - GRADING AND SHAPING
 - SEEDBED PREPARATION
 - APPLY LIME AND FERTILIZER
 - PLANT SEEDINGS, SELECT SPECIES BY SEASON AND REGION
 - APPLY MULCHING MATERIAL IF NEEDED
 - IRRIGATE IF NEEDED BUT NOT @ RATE TO CAUSE EROSION
 - PLANTING DATES DEPEND ON SPECIES AND REGION (MOUNTAIN, PIEDMONT OR COASTAL)

NOTES:
CONTRACTOR SHALL STABILIZE ALL AREAS WITH TEMPORARY VEGETATION THAT ARE TO BE EXPOSED WITHOUT STORM WATER PROTECTION FOR LONGER THAN 7 DAYS.

SEEDING SCHEDULE PERMANENT COVER

SPECIES	BROADCAST RATES - PLS PER ACRE	BROADCAST RATES - PLS PER 1000 SQ. FT.	RESOURCE AREA*3	PLANTING DATES (SOLID LINES INDICATE OPTIMUM DATES, DOTTED LINES INDICATED PERMISSIBLE BUT MARGINAL DATES.)
BERMUDA, SPRIGS (CYNODON DACTYLON)	40 CU. FT. OR SOD PLUGS 3'x3'	0.9 CU. FT.	M-L	J F M A M J J A S O N D
COASTAL COMMON OR TIFT 44			P	
			C	J F M A M J J A S O N D
BERMUDA, COMMON (CYNODON DACTYLON)			M-L	
ALONE	10 LBS.	0.2 LB.	P	
W/ OTHER PERENNIALS	6 LBS.	0.1 LB.	C	J F M A M J J A S O N D
FESCUE, TALL (FESTUCA ARUNDINACEA)			M-L	
ALONE	50 LBS.	1.1 LB.	P	
W/ OTHER PERENNIALS	30 LBS.	0.7 LB.	C	J F M A M J J A S O N D
CROWN VETCH (CORONILLA VARIA)			M-L	
W/ WINTER ANNUALS OR COOL SEASON GRASSES	15 LBS.	0.3 LB.	P	J F M A M J J A S O N D
REED CANARY GRASS (PHARLARIS ARUNDINACEA)			M-L	
ALONE	50 LBS.	1.1 LB.	P	
W/ OTHER PERENNIALS	30 LBS.	0.7 LB.	C	J F M A M J J A S O N D
CENTPEDE (EREMOCHLOA OPHIOIDES)	BLACK SOD ONLY		P	
			C	J F M A M J J A S O N D
LOVEGRASS, WEEPING (ERAGROSTIS CURVULA)			M-L	
ALONE	4 LBS.	0.1 LB.	P	
W/ OTHER PERENNIALS	2 LBS.	0.05 LB.	C	J F M A M J J A S O N D
LESPEDEZA, SERICEA (LESPEDEZA CUNEATA)			M-L	
SCARIFIED	60 LBS.	1.4 LB.	P	
UNSCARIFIED	75 LBS.	1.7 LB.	P	
SEED-BEARING HAY	3 TONS	138 LB.	C	

- NOTE:
- YOU MAY USE ANY OTHER SPECIES IF APPROVED BY MANUAL OF EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
 - ALL FERTILIZER RATE AND APPLICATION, SEED QUALITY, SEEDBED PREPARATION, INNOCULANTS, PLANTING, AND MULCHING SHALL COMPLY WITH MANUAL OF EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.

Ds1

DISTURBED AREA STABILIZATION (WITH MULCHING)

ESTABLISHING A PERMANENT VEGETATIVE COVER AS A DISTURBED AREA.

- APPLICABLE ON HIGHLY ERODIBLE OR SEVERELY ERODED AREAS, SOMETIMES CALLED "CRITICAL AREAS" INCLUDING:

- CUT OR FILL SLOPES
- EARTH SPILLWAYS
- BORROW AREAS
- CHANNEL BANKS
- BERMS
- ROADSIDES
- SPOIL AREAS
- GULLIED LANDS

- GRADING AND SHAPING REQ'D. WHERE FEASIBLE AND PRACTICAL.

- SEEDBED PREPARATION (NOT REQ'D. IF USING HYDRAULIC SEEDING AND FERTILIZING)

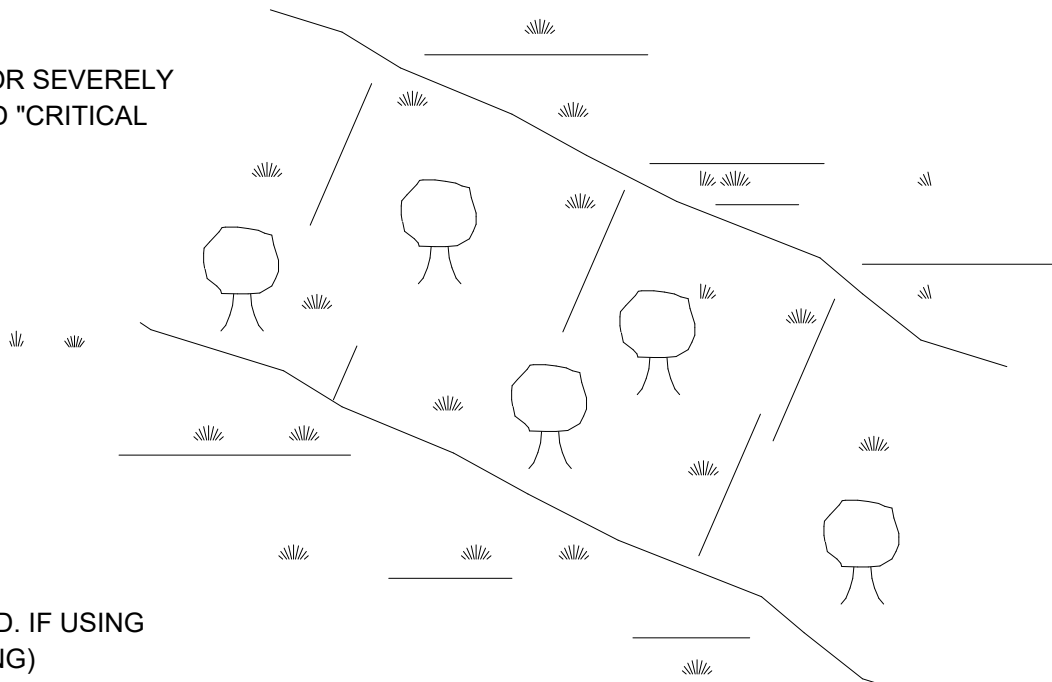
SLOPE SEEDBED

- 3:1 OR FLATTER > 4" DEEP
- 2:1 TO 3:1 1" TO 4" DEEP
- 2:1 OR STEEPER DEPRESSIONS EVERY 6"-8" WITH HAND TOOL

- HAVE SOIL ANALYZED FOR LIME AND FERTILIZER RATE.
- MULCH ALL SLOPES STEEPER THAN 3% AND IN BOTTOM OF SPILLWAYS AND ON ROADBANKS.
- ANCHOR MULCH IMMEDIATELY.

Ds3

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)



Ds4

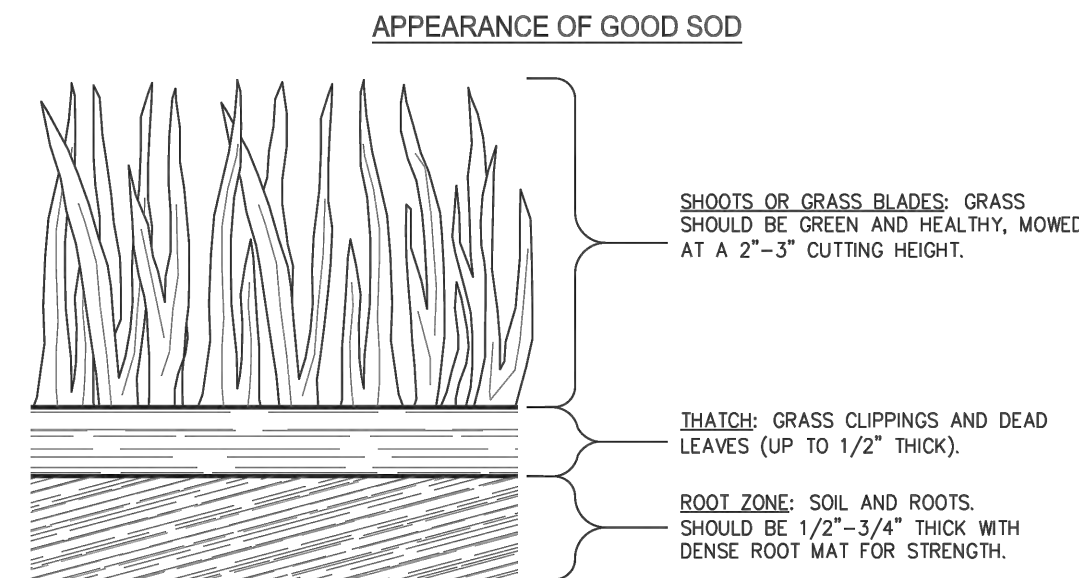
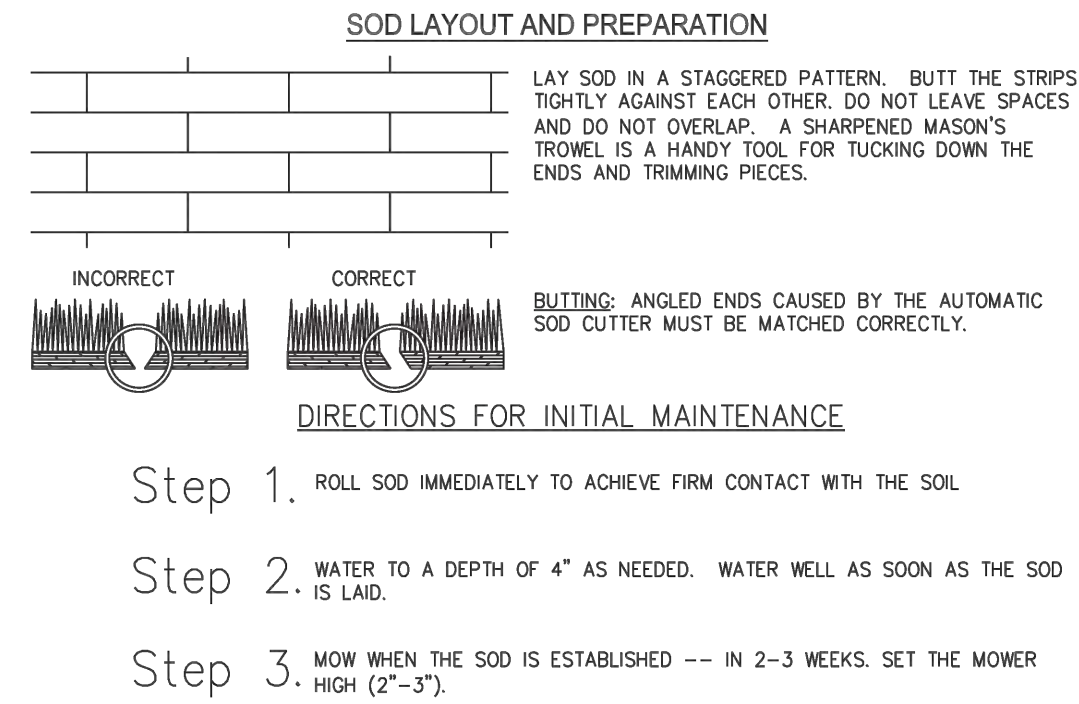
DISTURBED AREA STABILIZATION (WITH SOD)

Table 6-6.1. Fertilizer Requirements for Soil Surface Application			
Fertilizer Type	Fertilizer Rate (lbs/acre)	Fertilizer Rate (lbs/sq ft)	Season
10-10-10	1000	.025	Fall

Table 6-6.2 Sod Planting Requirements			
Grass	Varieties	Resource Area	Growing Season
Bermudagrass	Common Tifway Tifgreen Tiflawn	M-L,P P,C P,C P,C	warm weather
Bahiagrass	Pensacola	P,C	warm weather
Centipede	---	P,C	warm weather
St. Augustine	Common Bitterblue Raleigh	C	warm weather
Zoysia	Emerald Myer	P,C	warm weather
Tall Fescue	Kentucky	M-L,P	cool weather

Table 6-6.3 Fertilizer Requirements for Sod				
Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Nitrogen Top Dressing Rate (lbs./acre)
cool season grasses	first	6-12-12	1500	50-100
	second	6-12-12	1000	-
warm season grasses	first	6-12-12	1500	50-100
	second	6-12-12	800	30

SOD MAINTENANCE AND INSTALLATION



Source: Va. DSWC

Figure 6-6.2



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CONSULTANTS

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FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER SYSTEM



FCWS-TRILITH STUDIOS
ELEVATED WATER STORAGE TANK

400 VETERANS PARKWAY
FAYETTEVILLE, GA 30214

REVISIONS

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DATE: JULY 2023

FILE NAME: ESC-09

DESIGNED BY: TAYLOR H. TITTLE, PE

DRAWN BY: MADISON A. SMITH, EIT

CHECKED BY: DAVID A. WILSON, PE

SHEET TITLE

EROSION & SEDIMENT CONTROL

EROSION & SEDIMENT CONTROL DETAILS (SHEET 2 OF 2)

SCALE: AS SHOWN

ESC-10

SHEET 23 OF 60

BIM 360://AUS-30135792-Trilith Studios Elevated Storage Tank/M-3D-FCWS R20.rvt
7/7/2023 7:01:34 PM

NOTES:

1. PIPELINES, VALVES AND EQUIPMENT SHALL BE FURNISHED, FABRICATED, ERECTED AND OTHERWISE INSTALLED TO LINES, ELEVATIONS LOCATIONS, AND DIMENSIONS AS SHOWN, SPECIFIED OR REQUIRED FOR A COMPLETE INSTALLATION. THE CONTRACTOR SHALL MEASURE ALL DIMENSIONS SHOWN PROPERLY AND SHALL TAKE SUCH FIELD DIMENSIONS AS MAY BE NECESSARY TO PROPERLY INSTALL ALL PIPELINES, VALVES AND EQUIPMENT. DIMENSIONS AND LOCATIONS OF EXISTING EQUIPMENT, PIPING, AND STRUCTURES SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO NEW EQUIPMENT FABRICATION.

2. ALL PIPELINES, VALVES AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND MANUFACTURER'S SPECIFICATIONS, IN A NEAT WORKMANLIKE MANNER, AND IN ACCORDANCE WITH APPROVED SHOP AND WORKING DRAWINGS.

3. ALL CONSTRUCTION MATERIALS REQUIRING STORAGE SHALL BE STORED IN STRICT CONFORMANCE WITH CONTRACT DOCUMENTS, MANUFACTURER'S SPECIFICATIONS, RECOMMENDATIONS AND INSTRUCTIONS.

4. SEQUENCE OF WORK : REFER TO SPECIFICATION SECTION 01 14 16 - COORDINATION WITH OWNER'S OPERATIONS.

5. THE INSTALLATION DEPICTED IN THESE PLANS IS BASED UPON THE PEERLESS AE SERIES SPLIT-CASE PUMP. IF A DIFFERENT MANUFACTURER THAN THAT IS LISTED IN THE SPECIFICATION SECTION 43 21 12.23 - CENTRIFUGAL AXIAL SPLIT CASE PUMPS IS USED, THE CONTRACTOR IS FULLY RESPONSIBLE TO MAKE ALL ADJUSTMENTS FOR A COMPLETE AND OPERABLE SYSTEM, INCLUDING ANY REDESIGN COST BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

6. REFER TO ELECTRICAL FOR ROOM HAZARDOUS & CORROSIVE AREA CLASSIFICATION.

PIPING SYMBOLS

WELD NECK FLANGE

FLANGED

MECHANICAL JOINT

GROOVED END

WELDED

CONCRETE BELL & SPIGOT

CPVC/PVC/COPPER

FASTITE (RESTRAINED JOINT)

FORGED STEEL SOCKET/THREADED

HDPE IPS (FLANGED)

HDPE IPS

CAST IRON HUBLESS

FLANGED FLARE

BLIND FLANGE

EXPANSION JOINT

FLEXIBLE COUPLING

FLANGED COUPLING ADAPTER

FLANGED COUPLING ADAPTER

DISMANTLING JOINT

HARNESSED DISMANTLING JOINT

SCHEMATIC VALVE LEGEND

SYM

PLAN

ELEV

AIR RELEASE VALVE (AR)

AIR/VACUUM VALVE (AV)
COMBINATION AIR VALVE (CA)

BALL VALVE (BV)

BALL CHECK VALVE (BC)

BUTTERFLY VALVE (BFV)

BUTTERFLY DAMPER (BD)

CHECK VALVE (CH)

TELESCOPING VALVE (TV)

DIAPHRAGM VALVE (DV)

SUCTION FOOT VALVE (FV)

THREE-WAY PLUG VALVE (TW)

FOUR-WAY VALVE (FW)

GLOBE VALVE (GL)

GATE VALVE (GV)
CURB STOP (CS)

KNIFE GATE VALVE (KV)

MUD VALVE (MD)

NEEDLE VALVE (NV)

PINCH VALVE (PI)

AUTOMATIC PRESSURE
REDUCING VALVES (PR)

AUTOMATIC PRESSURE
SUSTAINING VALVES (PS)

ECCENTRIC PLUG VALVE (PV)

RELIEF VALVE (RV)

SLUICE GATE (SL)

SLIDE GATE (SG)
SLIDE PLATE (SP)

SOLENOID VALVE (SV)

FO=FAIL OPEN
FC=FAIL CLOSED

ABBREVIATIONS

PIPE SERVICE

ALP
CA
DR
DG
HO
HPW3
LS
OF
POT
SAM
SAN

AIR (LOW PRESSURE PROCESS)
COMPRESSED AIR
DRAIN
DIVERTER GATE
HYDRAULIC OIL
HIGH PRESSURE PLANT WATER
LEVEL SENSOR
OVERFLOW
POTABLE WATER
SAMPLE
SANITARY

VALVE TYPES

AECV
ARV
AVV
BFV
BLV
ECV
GV
GBV
KGV
PRV
PSV
SG
SV

AUTOMATIC ELECTRONIC CONTROL VALVES
AIR RELEASE VALVE
AIR VACUUM VALVE
BUTTERFLY VALVE
BALL VALVE
ELECTRIC CHECK VALVE
GATE VALVE
GLOVE VALVE
KNIFE GATE VALVE
PRESSURE REDUCING VALVE
PRESSURE SUSTAINING VALVE
SLUICE GATE
SOLENOID VALVE

PIPE MATERIALS

BS
CU
CPVC
CS
DIP
PVC
RPVC
SSTL
ST

BLACK STEEL
COPPER
CHLORINATED POLYVINYL CHLORIDE
CARBON STEEL
DUCTILE IRON
POLYVINYL CHLORIDE
REINFORCED PVC FLEXIBLE HOSE
STAINLESS STEEL
STEEL

EXAMPLE: NEW PIPE LABEL

36"

↑

DIAMETER (INCHES)

-

RW

↑

PIPE SERVICE

-

DIP

↑

PIPE MATERIAL

-

HT/I

↑

HEAT TRACED/
INSULATED

EXAMPLE: VALVE LABEL

16"

↑

DIAMETER (INCHES)

-

BFV

↑

VALVE TYPE

LEGAL ENTITY:
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2839 PACES FERRY ROAD
SUITE 900 ATLANTA, GA 30339
TEL: 770-431-8666
WWW.ARCADIS.COM

CONSULTANTS

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ISSUE FOR BID

FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER SYSTEM

FAYETTE
County
Water

FCWS-TRILITH STUDIOS
ELEVATED WATER STORAGE TANK

400 VETERANS PARKWAY,
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UNITED STATES

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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: M-01

DESIGNED BY: T. THOMAS

DRAWN BY: M. DEEPALI

CHECKED BY: H. GILES

SHEET TITLE

MECHANICAL

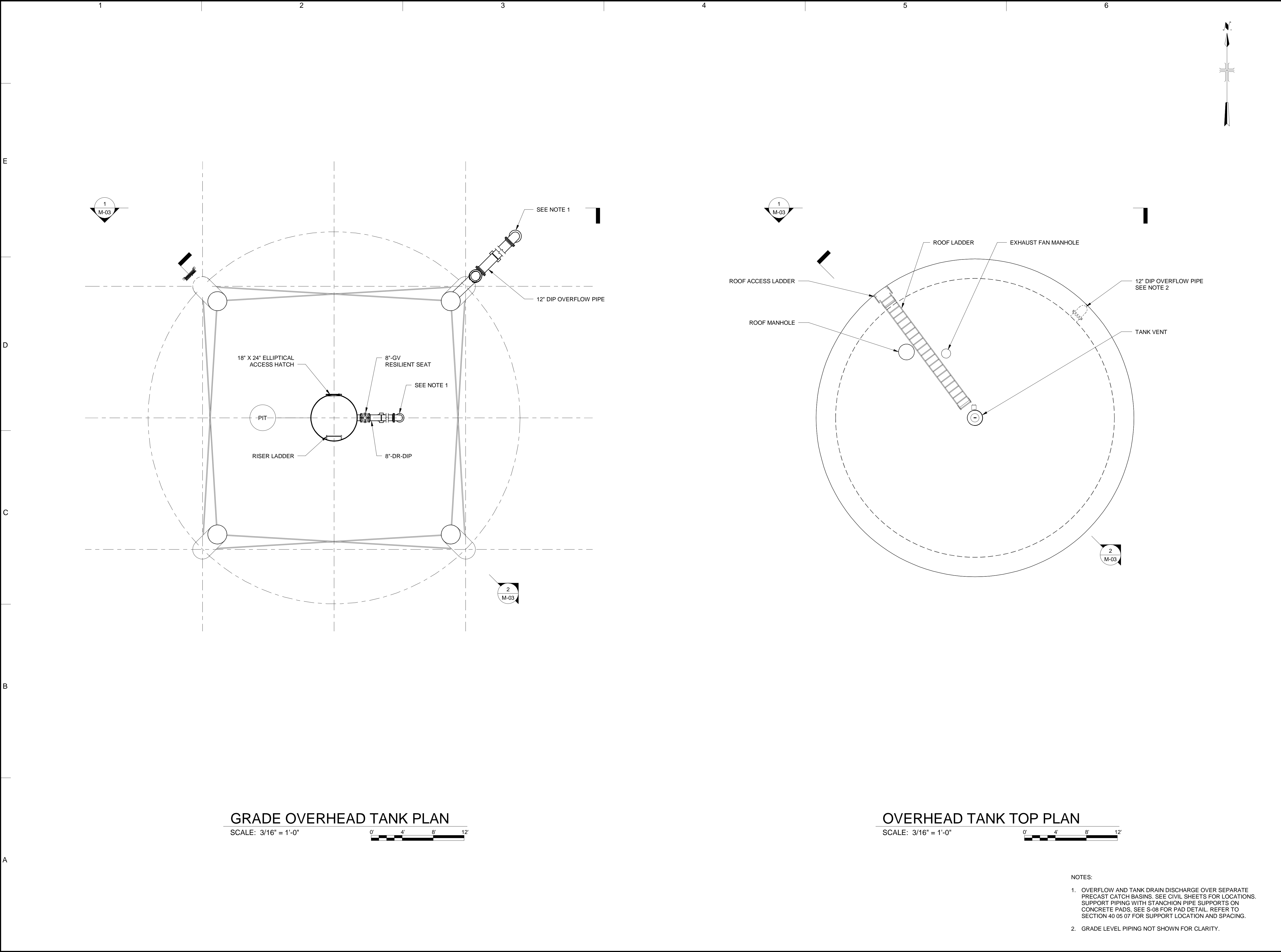
MECHANICAL
LEGENDS, SYMBOLS
AND ABBREVIATIONS

SCALE: NTS

M-01

SHEET 24 OF 60

BIM 360://AUS-30135792-Trilith Studios Elevated Storage Tank/M-3D-AV_R20.rvt 7/7/2023 7:02:24 PM



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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: M-02

DESIGNED BY: T. THOMAS

DRAWN BY: M. DEEPALI

CHECKED BY: H. GILES

SHEET TITLE

MECHANICAL

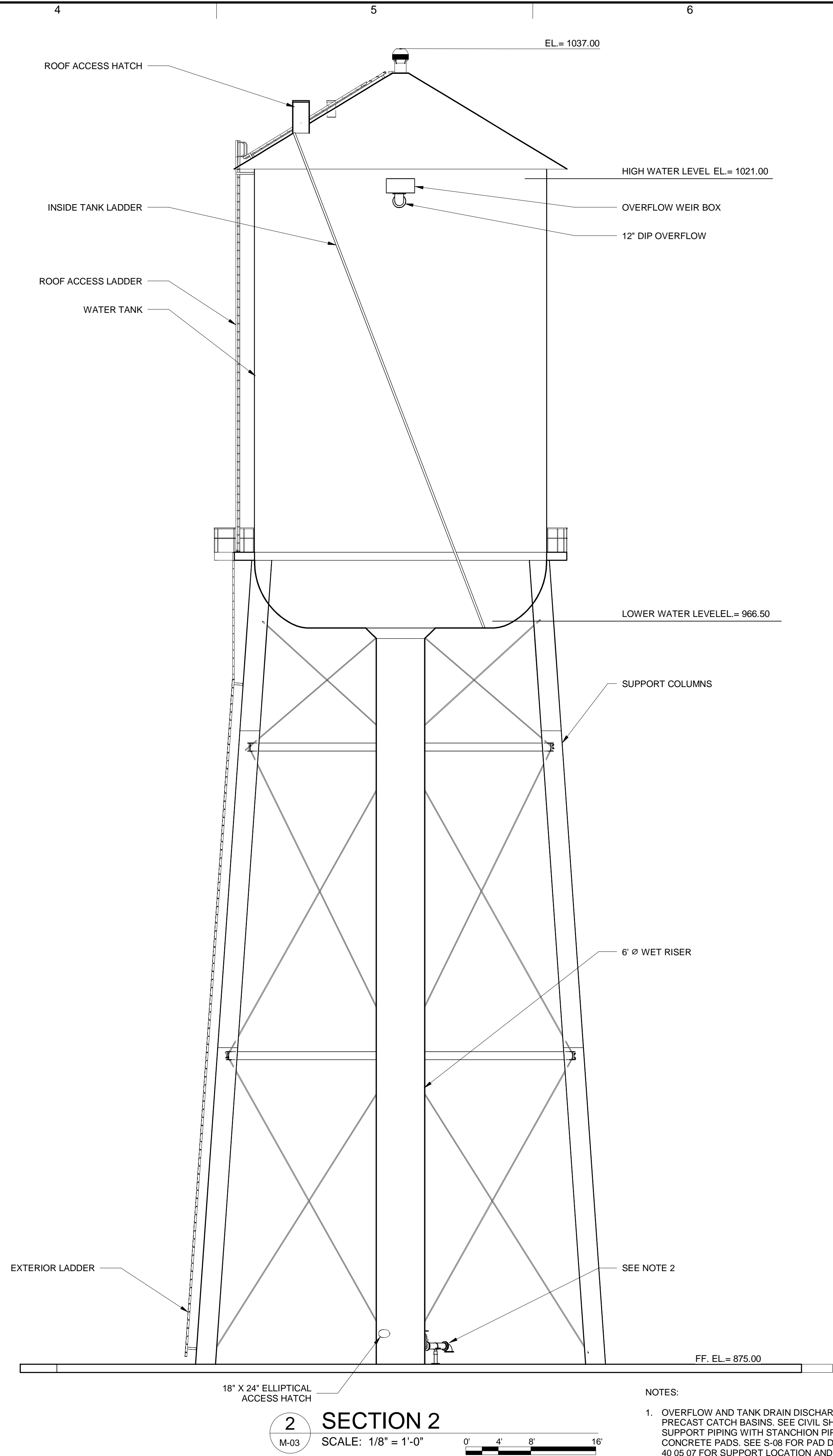
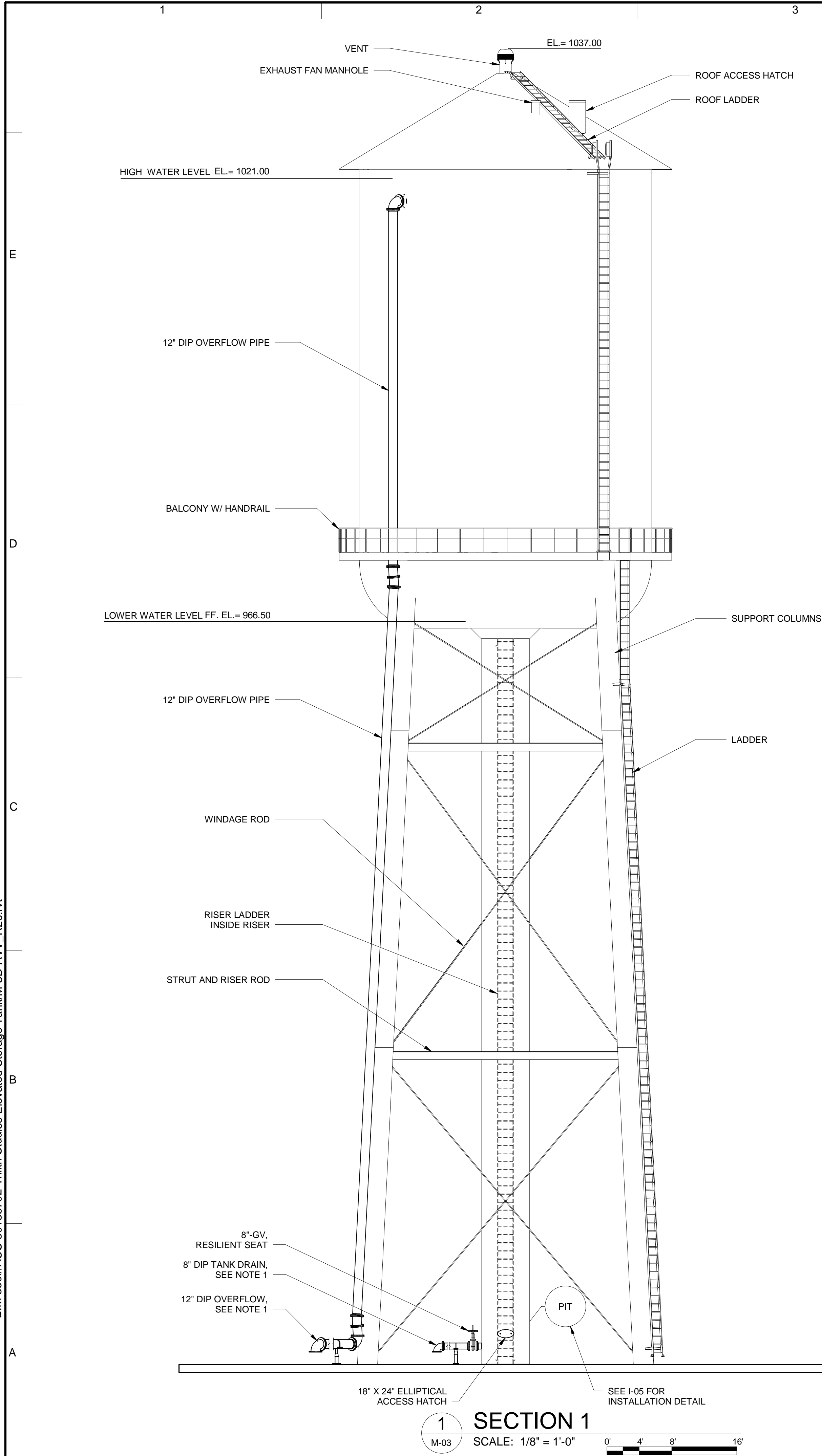
ELEVATED STORAGE TANK PLAN

M-02

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

SHEET 25 OF 60

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- NOTES:
- OVERFLOW AND TANK DRAIN DISCHARGE OVER SEPARATE PRECAST CATCH BASINS. SEE CIVIL SHEETS FOR LOCATIONS. SUPPORT PIPING WITH STANCHION PIPE SUPPORTS ON CONCRETE PADS. SEE S-08 FOR PAD DETAIL. REFER TO SECTION 40 05 07 FOR SUPPORT LOCATION AND SPACING. INSTALL 316SS 24-MESH SCREEN BETWEEN FLANGES OF DOWNTURNED 90 BEND.
 - TANK OVERFLOW AND DRAIN NOT SHOWN.



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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: M-03

DESIGNED BY: T. THOMAS

DRAWN BY: M. DEEPALI

CHECKED BY: H. GILES

SHEET TITLE

MECHANICAL

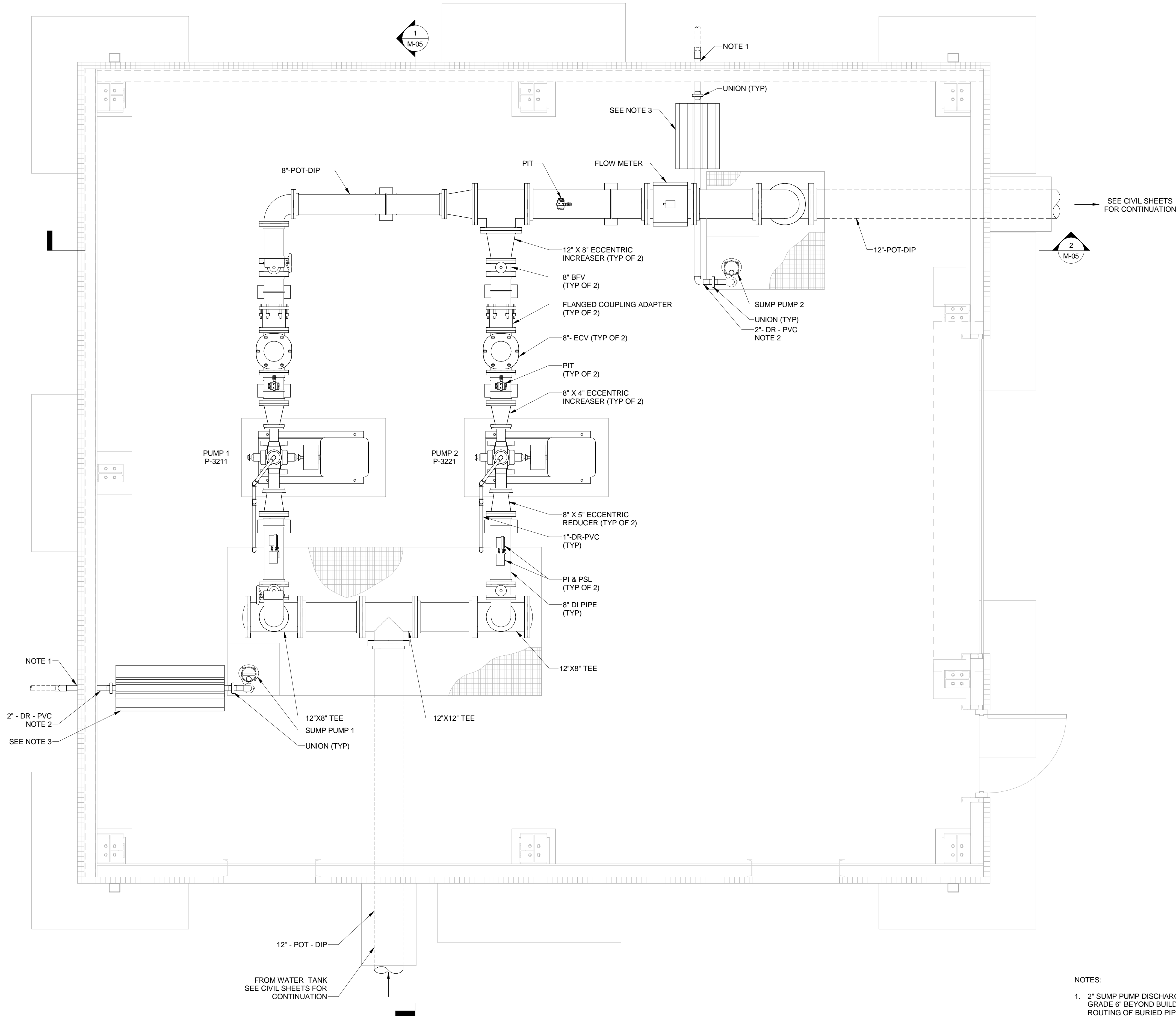
ELEVATED STORAGE
TANK SECTION

SCALE: 1/8" = 1'-0"

M-03

SHEET 26 OF 60

BIM 360://AUS-30135792-Trilith Studios Elevated Storage Tank/M-3D-FCWS R20.rvt 7/7/2023 7:01:35 PM



FINISHED FLOOR

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

- NOTES:
- 2" SUMP PUMP DISCHARGE EXITS BUILDING 2" ABOVE FFEL. TRANSITION TO BELOW GRADE 6" BEYOND BUILDING SLAB. SEE CIVIL DRAWINGS FOR ELEVATION AND ROUTING OF BURIED PIPING. PROVIDE WALL PANEL MANUFACTURER'S STANDARD FLASHING TRIM AND INSULATION AT PIPE PENETRATIONS.
 - SUPPORT PVC DRAIN PIPING ON 316SS UNISTRUT SECTIONS. TYPICAL EVERY 5 FEET.
 - ANTI-SLIP ALUMINUM PIPE COVER BY SAFEGUARD TECHNOLOGY, OR EQUAL. COVER TO BE SAFETY YELLOW.



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PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: M-04

DESIGNED BY: T. THOMAS

DRAWN BY: M. DEEPALI

CHECKED BY: H. GILES

SHEET TITLE

MECHANICAL

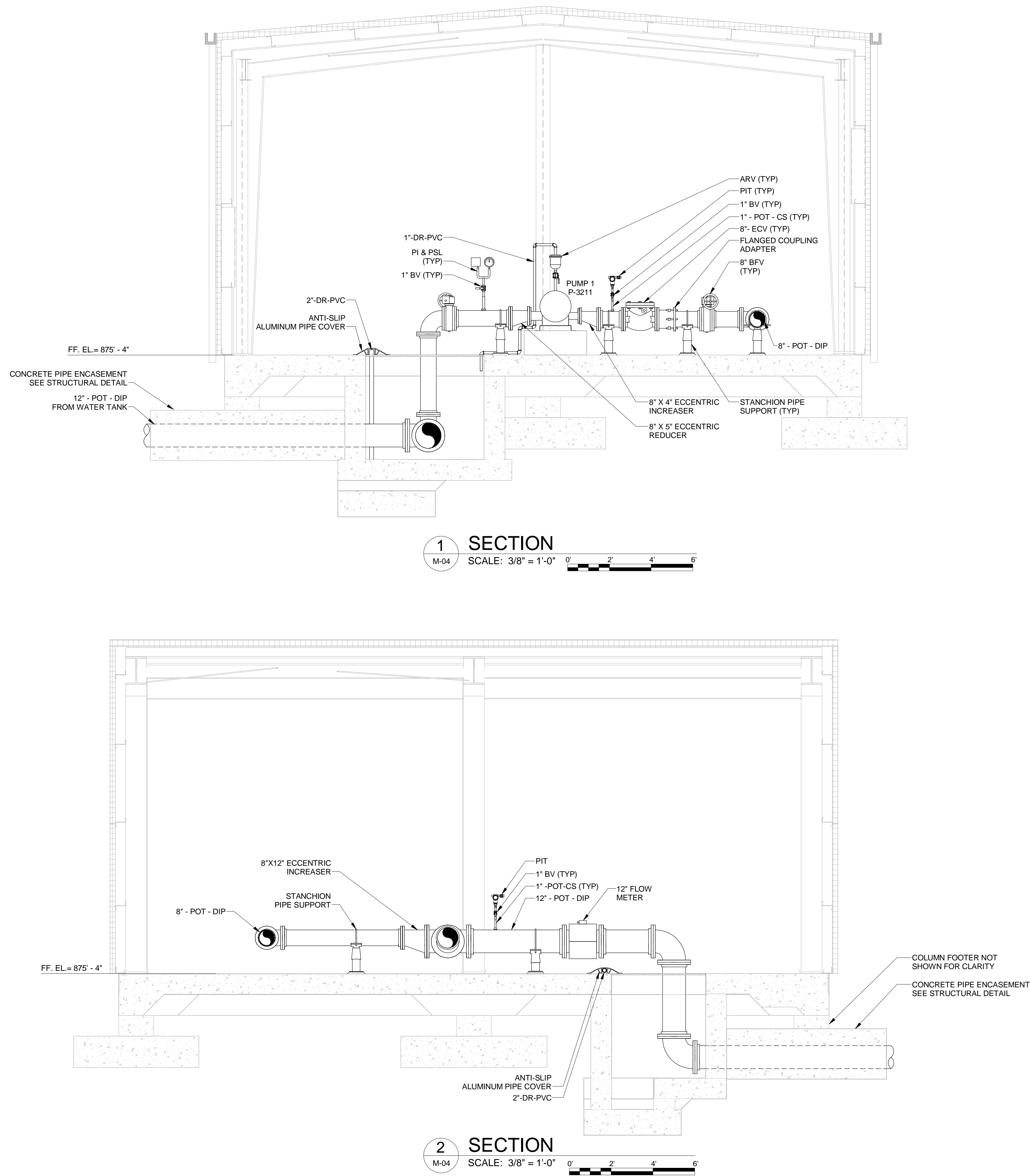
BOOSTER PUMP
STATION PLAN

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

M-04

SHEET 27 OF 60

BIM 360://AUS-30135792-Trilith Studios Elevated Storage Tank/M-3D-FCWS_R20.rvt 7/7/2023 7:01:36 PM



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PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: M-05

DESIGNED BY: T. THOMAS

DRAWN BY: M. DEEPALI

CHECKED BY: H. GILES

SHEET TITLE

MECHANICAL

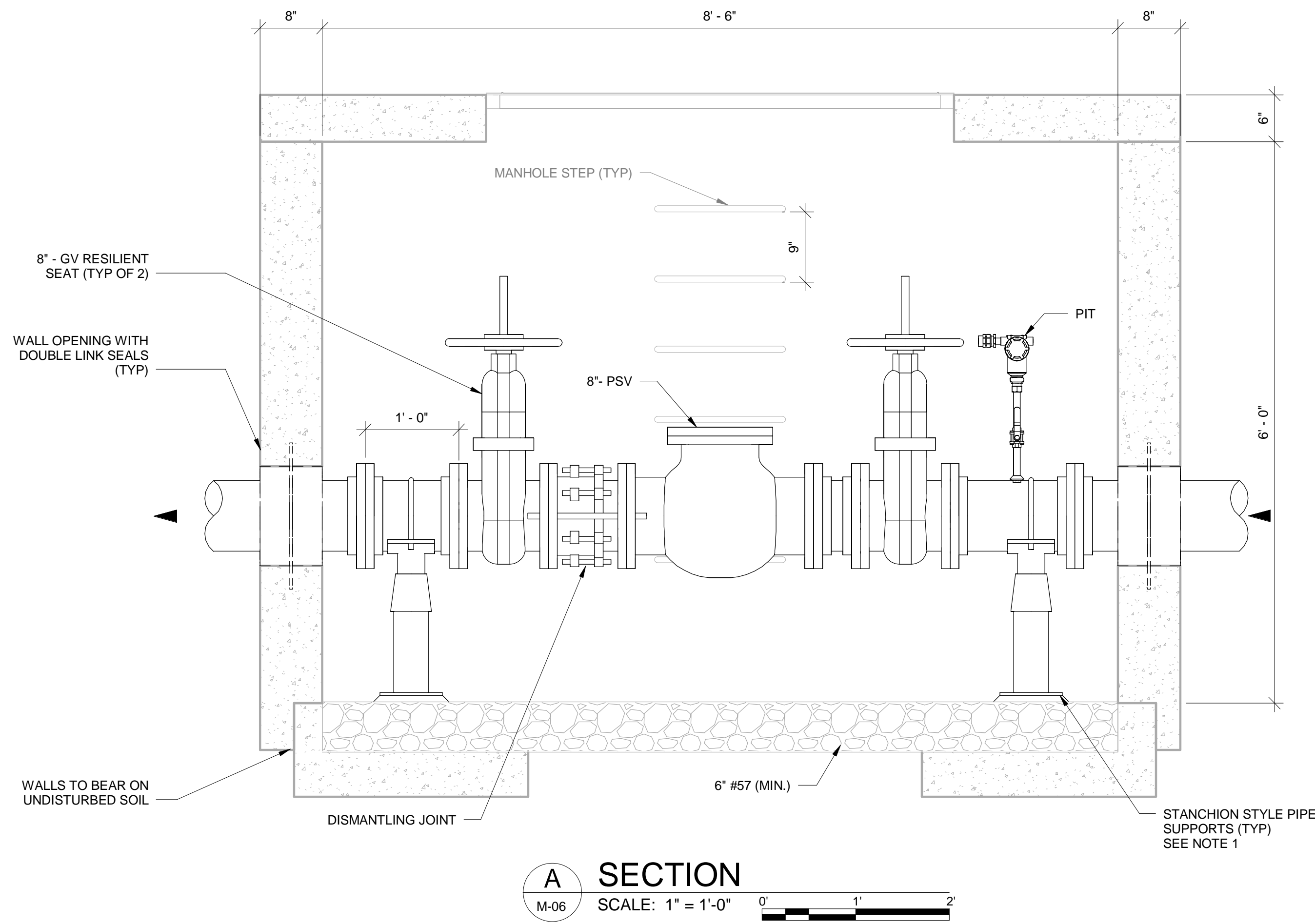
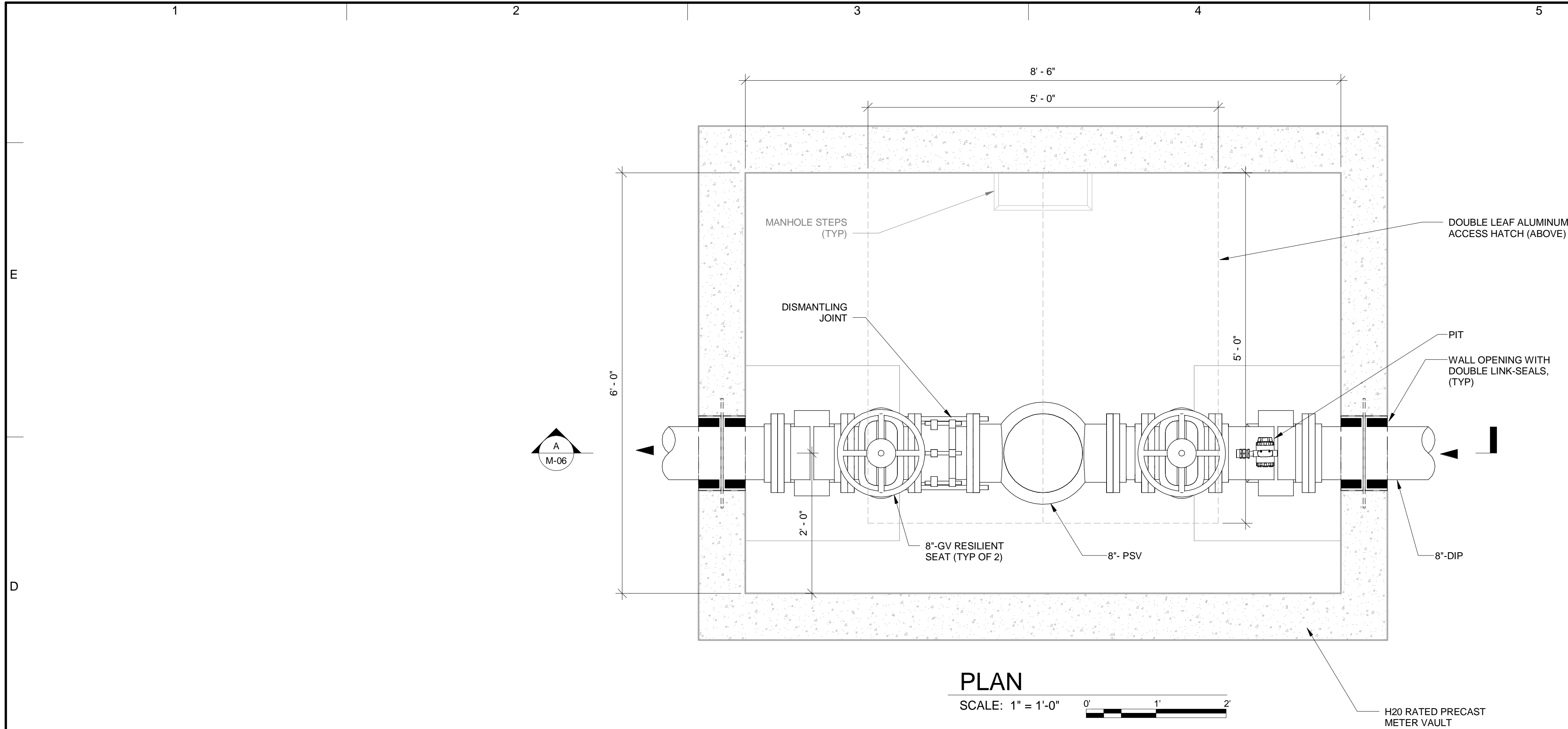
BOOSTER PUMP
STATION SECTIONS

SCALE: 3/8" = 1'-0"

M-05

SHEET 28 OF 60

BIM 360://AUS-30135792-Trilith Studios Elevated Storage Tank/M-3D-AV_V_R20.rvt
7/7/2023 7:02:26 PM



- NOTES:
1. PROVIDE CONCRETE PAD FOR STANCHION SUPPORTS, SEE S-08 FOR PAD DETAIL.



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PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: M-06

DESIGNED BY: T. THOMAS

DRAWN BY: M. DEEPALI

CHECKED BY: H. GILES

SHEET TITLE

MECHANICAL

TANK CONTROL VALVE
VAULT PLAN &
SECTION

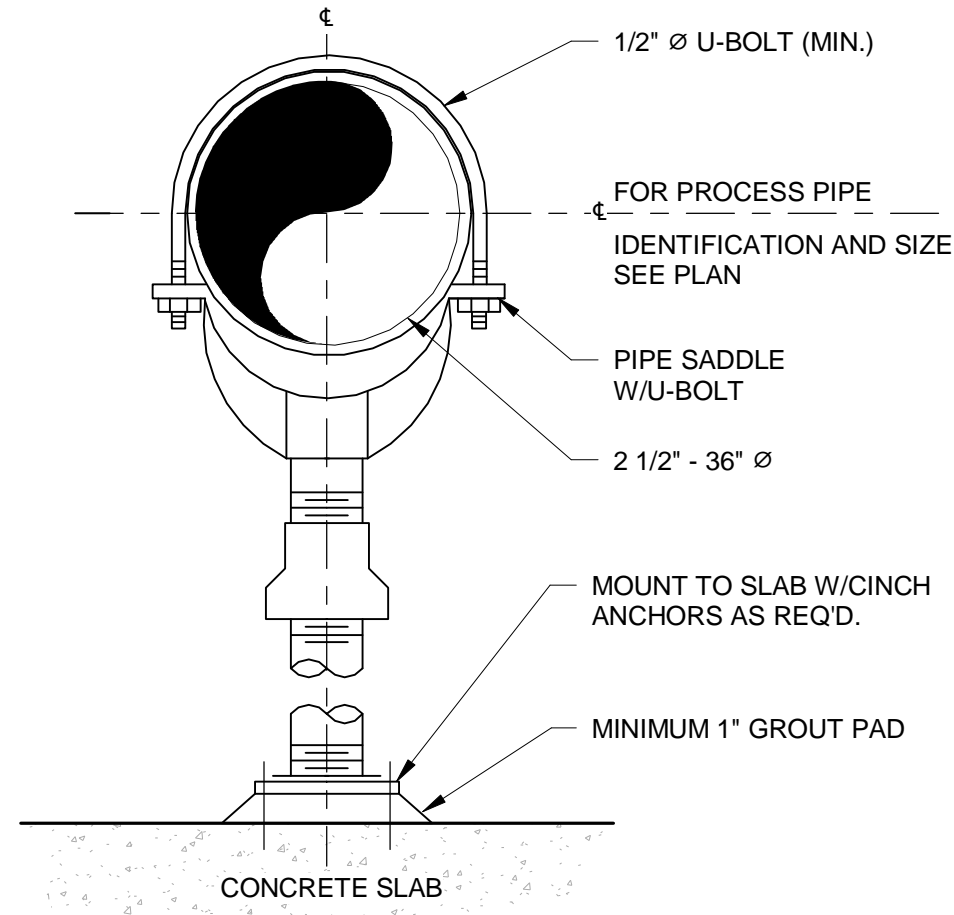
SCALE:

1" = 1'-0"

M-06

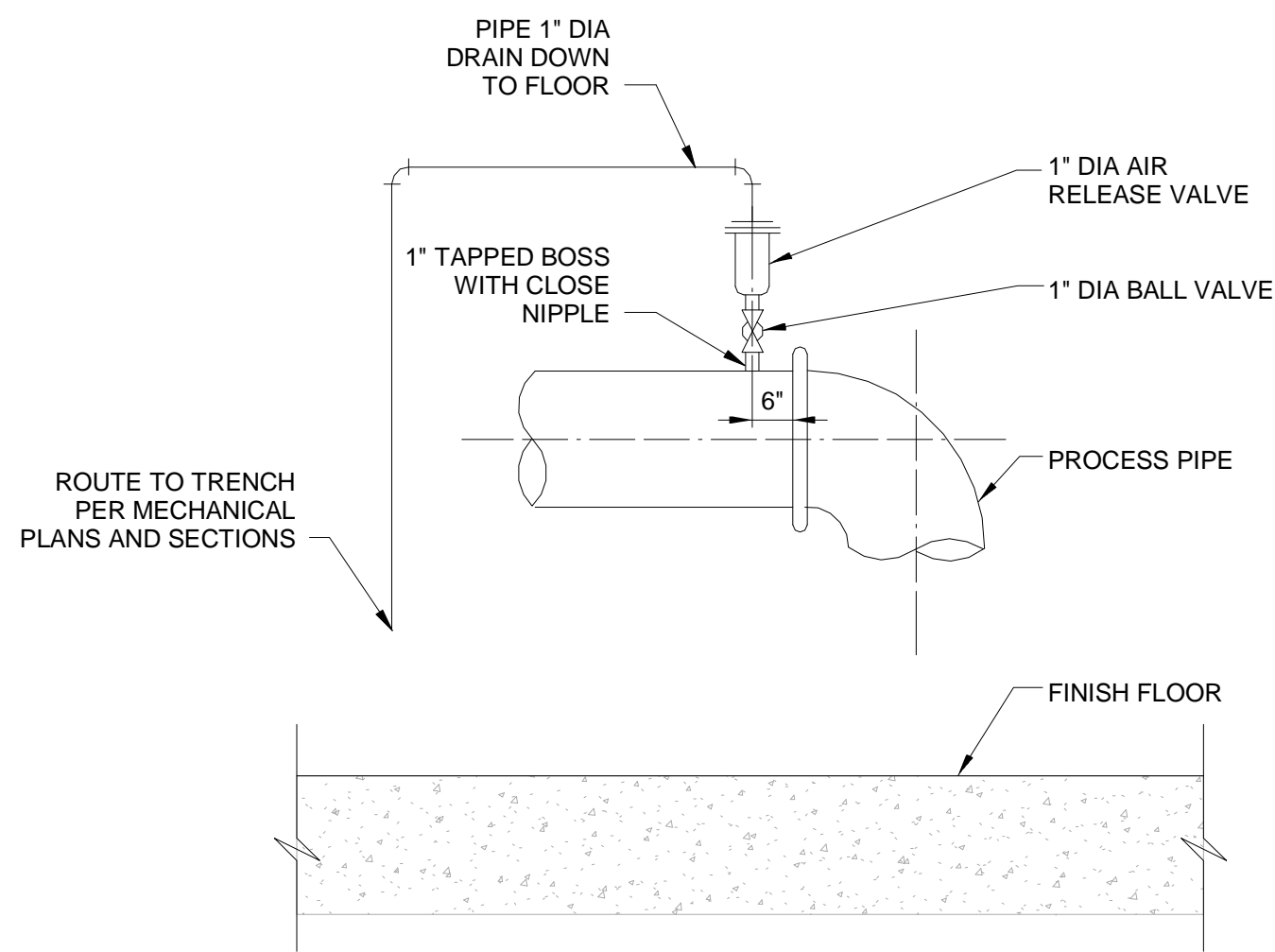
SHEET 29 OF 60

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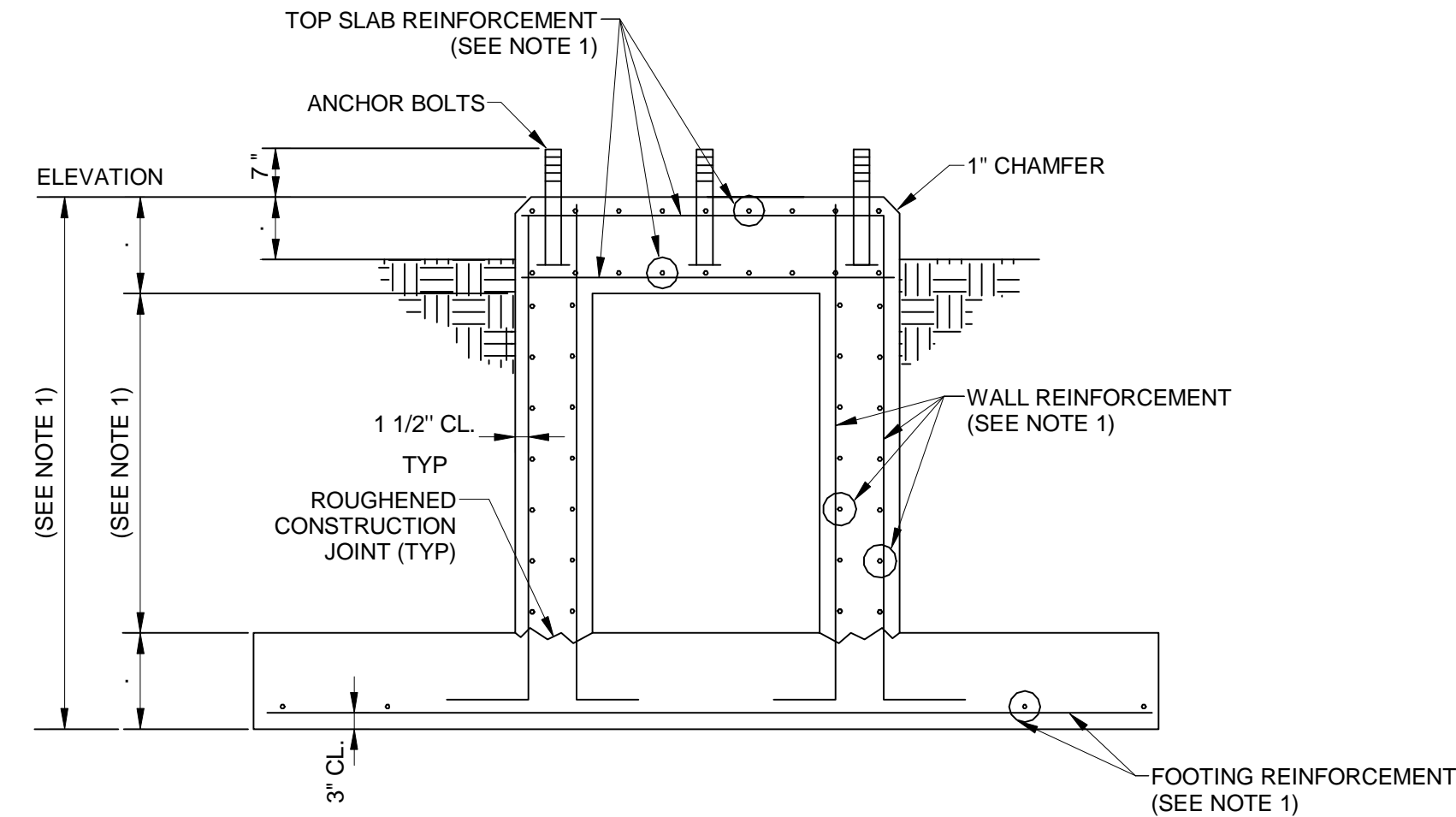
STANCHION PIPE SUPPORT DETAIL

NOT TO SCALE



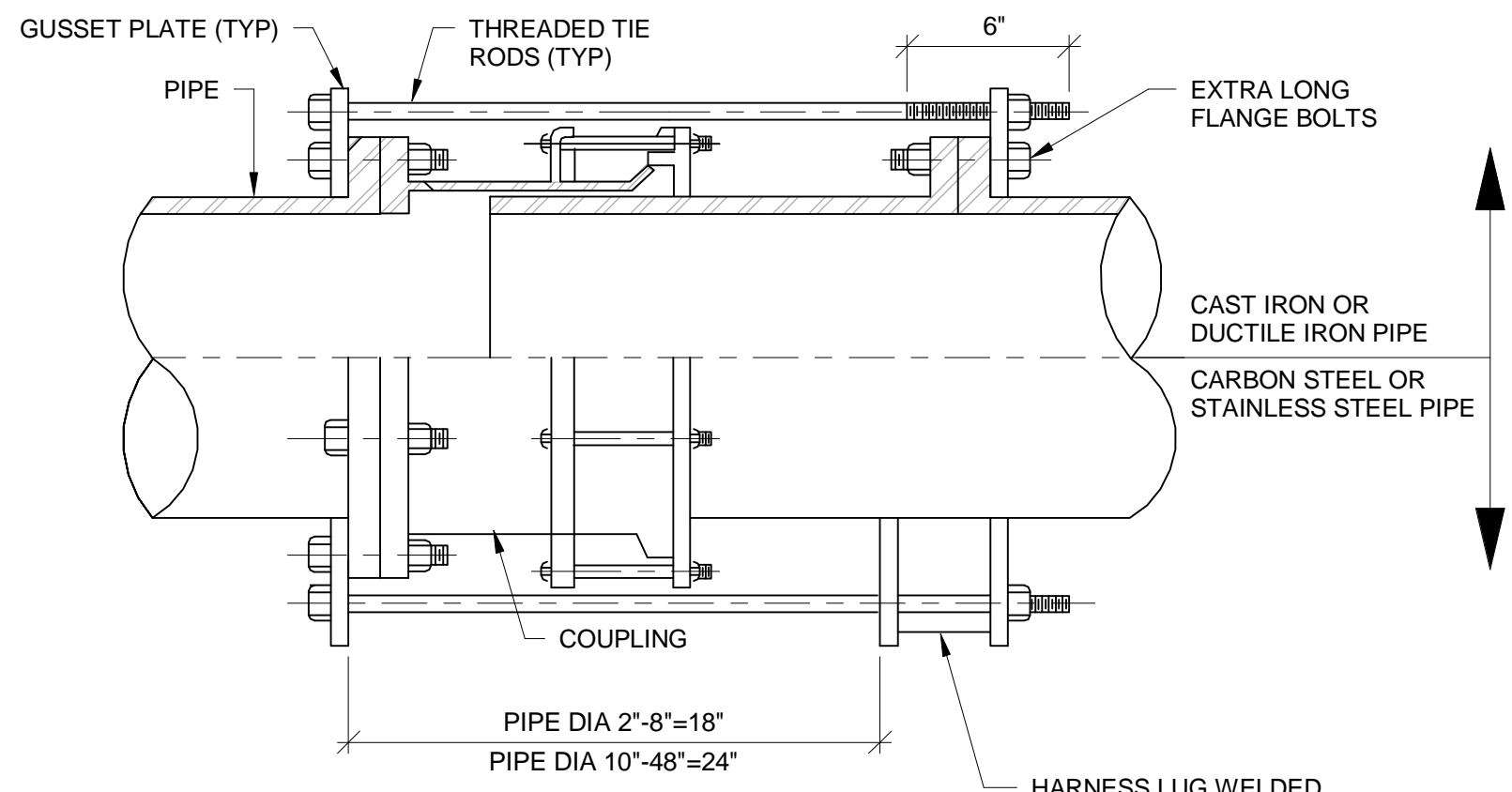
AIR RELEASE VALVE DETAIL

NOT TO SCALE



1 SECTION

NOT TO SCALE

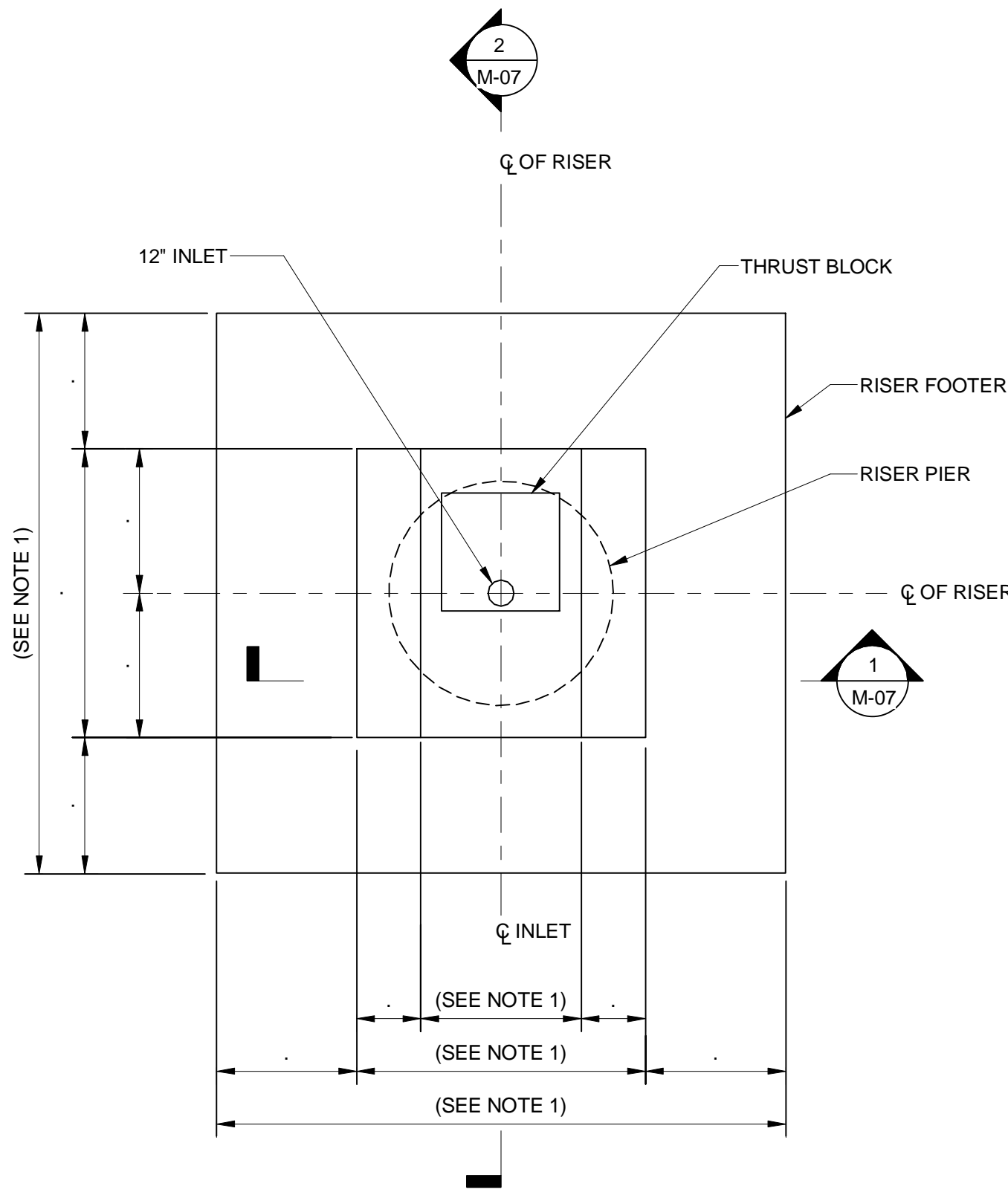


DETAIL NOTE:

1. THE NUMBER OF TIE RODS, HARNESS LUGS CONFIGURATION AND MATERIAL THICKNESS SHALL BE IN ACCORDANCE WITH ANSI/HI 14.4.A.4.6.1 FOR PIPING CONNECTED TO A PUMP. OTHER PIPING CONNECTIONS SHALL CONFORM TO AWWA M11.

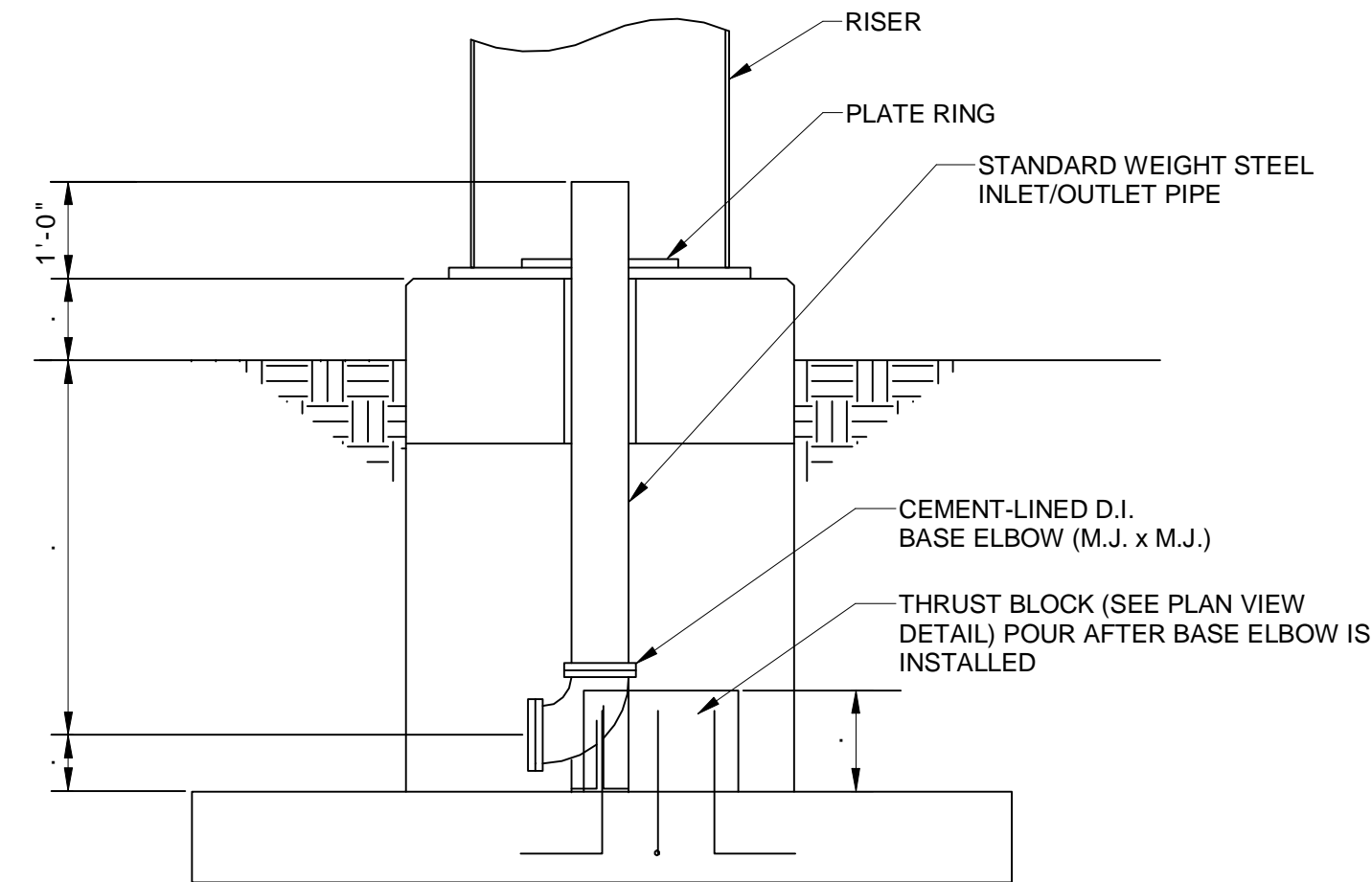
HARNESSED FLANGED COUPLING ADAPTER DETAIL

NOT TO SCALE



CENTER PIER PLAN

NOT TO SCALE



2 SECTION

NOT TO SCALE

- NOTE:
1. CENTER PIER FOUNDATION DIMENSIONS AND CONCRETE REINFORCEMENT REQUIREMENTS SHALL BE DETERMINED BY TANK CONTRACTOR.



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PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: M-07

DESIGNED BY: T. THOMAS

DRAWN BY: M. DEEPALI

CHECKED BY: H. GILES

SHEET TITLE

MECHANICAL

MECHANICAL DETAILS

SCALE:

NTS

M-07

SHEET 30 OF 60

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PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: S-01

DESIGNED BY: C. GALLO / P. LUNKAD

DRAWN BY: V. SRIPAL

CHECKED BY: D. DUNCAN

SHEET TITLE

STRUCTURAL

GENERAL NOTES

SCALE: NO SCALE

S-01

SHEET 31 OF 60

GENERAL:

A WEEKLY REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED. AT THE COMPLETION OF THE SPECIAL INSPECTIONS, THE LICENSED PROFESSIONAL ENGINEER IN CHARGE OF PERFORMING THE SPECIAL INSPECTION SHALL CERTIFY THE FINAL SPECIAL INSPECTION REPORT AND AFFIX HIS/HER SEAL TO THE SPECIAL INSPECTOR'S FINAL REPORT. PROVIDE THREE (3) COPIES OF THIS REPORT TO THE PROJECT ENGINEER.

SOILS:

C = CONTINUOUS
P = PERIODIC

CAST-IN-PLACE CONCRETE:

TYPE	C	P	REFERENCE STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	-	X	ACI 318 Ch: 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; b. INSPECT SINGLE PASS FILET WELDS, MAXIMUM 5/16" ; AND c. INSPECT ALL OTHER WELDS.	- X	X X	AWS D1.4 ACI 318: 26.6.4	-
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS. NOT DEFINED IN 4.a.	X X	 X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	-
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318 Ch: 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCE; AND b. GROUTING OF BONDED PRESTRESSING TENDONS.	X X	- -	ACI 318: 26.10 ACI 318: 26.10	-
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: Ch. 26.9	-
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.11.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1.2 (b)	-

C = CONTINUOUS P = PERIODIC

MANUFACTURERS:

1. HILTI HIT-RE 500 V3 EPOXY ADHESIVE ANCHORS
2. OR AS APPROVED.
 - A. INJECTABLE TWO-COMPONENT ADHESIVE.
 - B. HILTI ANCHOR ROD HAS-R 316 STAINLESS STEEL THREADED ROD COMPLYING WITH ASTM F593 CONDITION C IV.
 - C. ADHESIVE ANCHORAGE SYSTEM SHALL BE SEISMIC QUALIFIED WITH CURRENT ICC-ES ESR REPORT (ICC-ES ESR 3814).
 - D. INSTALLERS TO BE TRAINED BY ANCHOR MANUFACTURER.
 - E. 10% OF ALL ADHESIVE ANCHORS TO BE LOAD TESTED, AS INSTALLED IN FIELD, TO ENSURE ALLOWABLE MANUFACTURER LOADS ARE ACHIEVED.

STRUCTURAL STEEL

1. SUBMIT CERTIFICATION THAT THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM REQUIRED WORK WITHOUT SPECIAL INSPECTIONS PER IBC 1704.2.5.2.
2. IF FABRICATOR IS NOT APPROVED, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED. SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.
3. CONTRACTOR TO COORDINATE BUILDING DEPARTMENT INSPECTIONS AND SPECIAL INSPECTIONS.
4. SUBMIT CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL.
5. SUBMIT MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR HIGH-STRENGTH BOLTING AND WELD FILLER MATERIALS.

1. SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360-16.
2. SUBMIT CERTIFICATION THAT THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM REQUIRED WORK WITHOUT SPECIAL INSPECTIONS.
3. IF FABRICATOR IS NOT APPROVED, SPECIAL INSPECTION OF THE FABRICATED SHALL BE REQUIRED. SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.
4. SPECIAL INSPECTION FOR SEISMIC RESISTANCE FOR STRUCTURAL STEEL SHALL BE PERFORMED AS SPECIFIED.

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:			
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.		X	ASTM MATERIAL SPECS; AISC 360 SECTION A3.3
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.		X	
2. INSPECTIONS OF HIGH-STRENGTH BOLTING:			
A. SNUG TIGHT JOINTS		X	AISC 360 SECTION M2.5
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD FORMED STEEL DECK:			
A. FOR STRUCTURAL STEEL IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.		X	AISC 360 SECTION A3.1
B. FOR OTHER STEEL IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.		X	APPLICABLE ASTM STANDARDS
C. MANUFACTURER'S CERTIFIED TEST REPORT.		X	
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:			
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.		X	AISC 360, SECTION A3.5, AND APPLICABLE AWS A5 DOCUMENT
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.		X	
5. INSPECTION OF WELDING:			
A. STRUCTURAL STEEL & COLD-FORMED STEEL DECK:			
1) COMPLETE AND PARTIAL PENETRATION AND GROOVE WELDS		X	AWS D1.1
2) MULTIPLE FILLET WELDS		X	
3) SINGLE PASS FILLET WELDS > 5/16"		X	
4) PLUG AND SLOT WELDS		X	
5) SINGLE PASS FILLET WELDS <= 5/16"		X	AWS D1.3
6) FLOOR AND DECK ROOF WELDS		X	
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:			
A. DETAILS SUCH AS BRACING AND STIFFENING		X	
B. MEMBER LOCATIONS		X	
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION		X	
7. VERIFY EACH FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES		X	

C = CONTINUOUS
P = PERIODIC



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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: S-02

DESIGNED BY: C. GALLO / P. LUNKAD

DRAWN BY: V. SRIPAL

CHECKED BY: D. DUNCAN

SHEET TITLE

STRUCTURAL

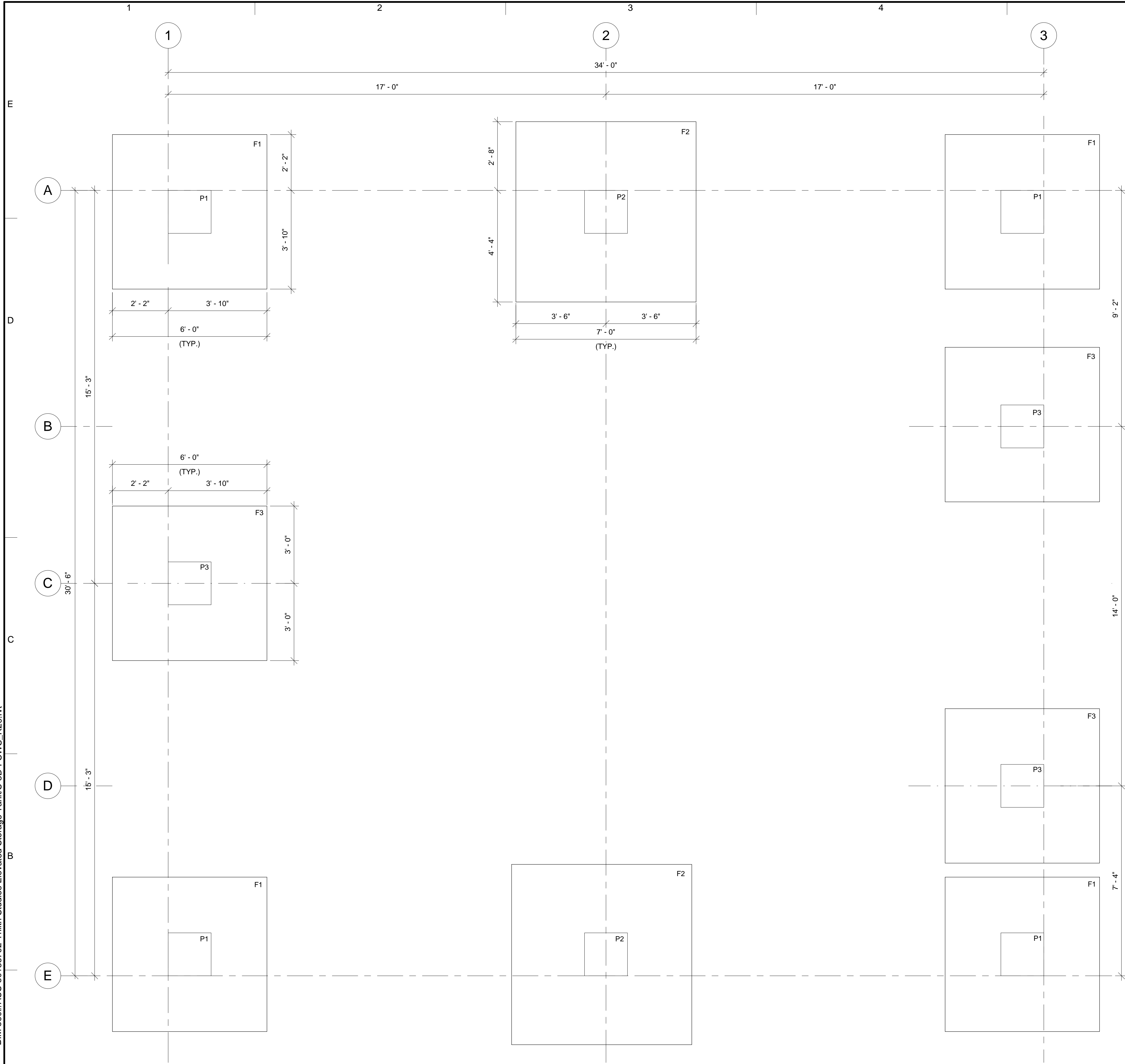
STRUCTURAL NOTES AND SPECIAL INSPECTIONS

SCALE: NO SCALE

S-02

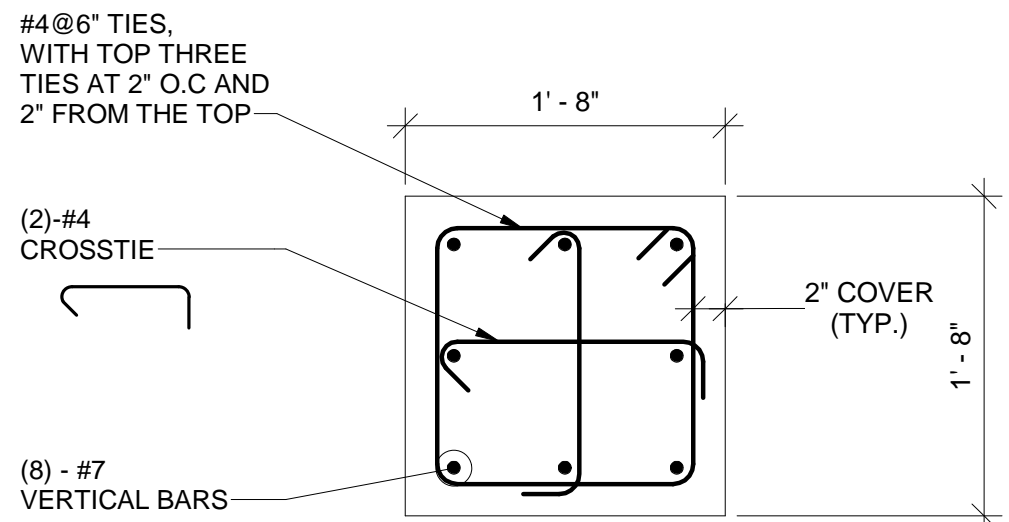
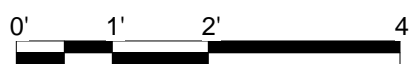
SHEET 32 OF 60

07-07-2023 13:13:32 BIM 360://AUS-30135792-Trilith Studios Elevated Storage Tank/S-3D-FCWS_R20.rvt



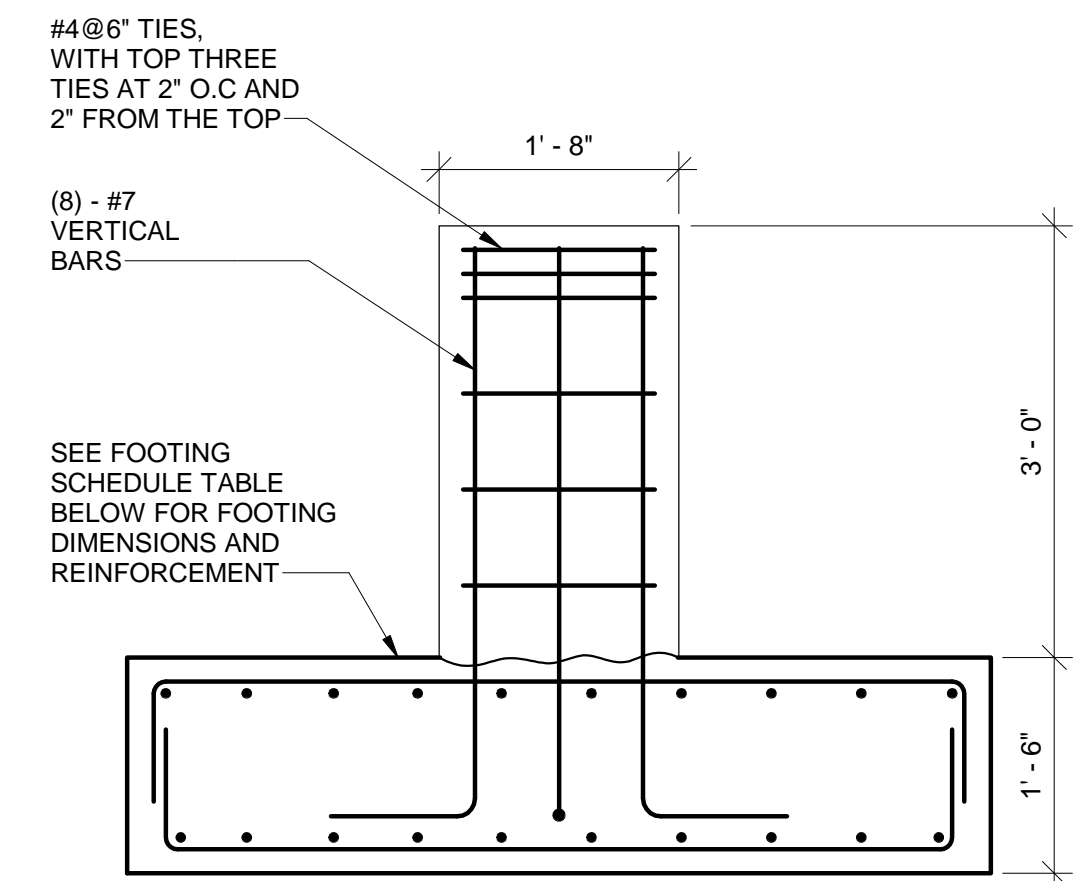
FOUNDATION PLAN

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



TYPICAL COLUMN PIER DETAIL

SCALE: 1" = 1'-0"



TYPICAL COLUMN PIER AND FOOTING DETAIL

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



PIER SCHEDULE	
MARK	SIZE
P1	1'-8" x 1'-8"
P2	1'-8" x 1'-8"
P3	1'-8" x 1'-8"

FOOTING SCHEDULE			
MARK	SIZE	DEPTH	REINFORCEMENT
F1	6'-0" x 6'-0"	1'-6"	(9) #6 T&B EW
F2	7'-0" x 7'-0"	1'-6"	(10) #6 T&B EW
F3	6'-0" x 6'-0"	1'-6"	(9) #5 T&B EW

NOTES:

- ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF.
- BUILDING FOUNDATION SHOWN HAS BEEN PRELIMINARY SIZED FOR LOADS PER 2018 INTERNATIONAL BUILDING CODE. ONCE BUILDING MANUFACTURER IS SELECTED, CONTRACTOR SHALL SUBMIT FINAL REACTIONS AND BUILDING MANUFACTURER'S SHOP DRAWINGS AS REQUIRED PER SPECIFICATION TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OF BUILDING AND FOUNDATION.



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FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER
SYSTEM



FCWS-TRILITH STUDIOS
ELEVATED WATER
STORAGE TANK

400 VETERANS PARKWAY,
FAYETTEVILLE, GA 30214,
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DATE: JULY 2023

FILE NAME: S-03

DESIGNED BY: C. GALLO / P. LUNKAD

DRAWN BY: V. SRIPAL

CHECKED BY: D. DUNCAN

SHEET TITLE

STRUCTURAL

FOUNDATION PLAN

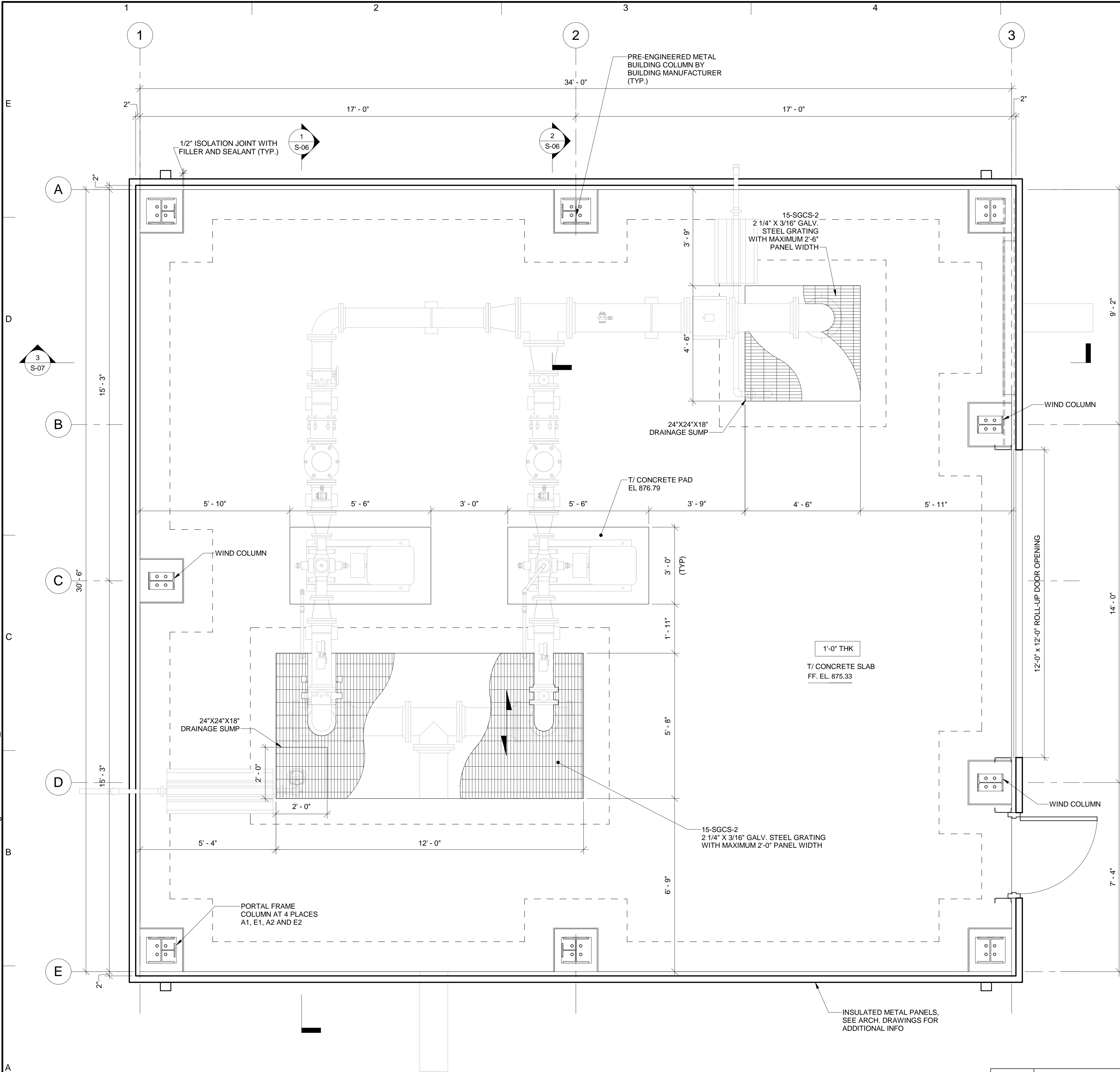
SCALE: AS INDICATED

S-03

SHEET 33 OF 60

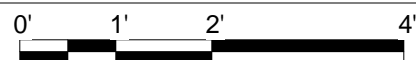
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07-07-2023 13:13:33



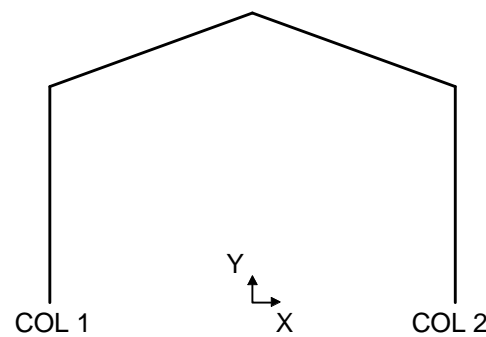
BASE SLAB PLAN

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



NOTES:

- FLOOR LIVE LOAD = 150 PSF. GRATING LIVE LOAD = 500 PSF.
- ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF.
- ALL EQUIPMENT ANCHORS SHALL BE STAINLESS STEEL TYPE 316 ADHESIVE ANCHORS.
- ALL EQUIPMENT, CONNECTIONS, SKIDS AND OTHER COMPONENTS SHALL BE DESIGNED BY EQUIPMENT MANUFACTURER FOR DESIGN LOAD CRITERIA INDICATED ON SHEET S-01.
- COORDINATE ALL EQUIPMENT, PIPING AND OTHER COMPONENT SIZES AND LOCATIONS WITH OTHER DISCIPLINE DRAWINGS.
- EQUIPMENT SHALL BE PROPERLY ANCHORED BY THE MANUFACTURER TO MEET WIND AND SEISMIC LOAD AND OTHER LOADS PER CURRENT APPLICABLE CODES. PROVIDE REQUIRED EDGE DISTANCE FOR ANCHORAGE. EDGE DISTANCE SHALL BE SUFFICIENT TO RESIST SHEAR AND UPLIFT ON ANCHOR BOLTS.
- CONTRACTOR SHALL SUBMIT EQUIPMENT ANCHORAGE SHOP DRAWINGS AND DESIGN CALCULATIONS. ALL SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SIGNED AND SEALED BY PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA.
- ALL MECHANICAL EQUIPMENT NOT SHOWN FOR CLARITY. REFER TO MECHANICAL DRAWINGS.
- REFER TO CIVIL DRAWINGS FOR THE LOCATION OF BUILDING.
- COORDINATE COLUMN LOCATIONS WITH METAL BUILDING MANUFACTURER.



COLUMN	COLUMN BASE REACTIONS (KIPS) - SERVICE (ASD) LOADS													
	ROOF DEAD LOAD (RDL)		ROOF LIVE LOAD (RLL)		ROOF SNOW LOAD (RSL)		WIND LOAD TO LEFT (WL1)		WIND LOAD TO RIGHT (WR1)		SEISMIC LOAD TO LEFT (SL1)		SEISMIC LOAD TO RIGHT (SR1)	
COL 1	2.0	12.0	1.0	7	0.2	1.0	-4.0	-13.0	-8.0	-9.0	-1.0	1.5	0.0	-0.5
COL 2	-2.0	12.0	-1.0	7	-0.2	1.0	-4.0	-13.0	-3.5	-5.0	-0.5	1.5	-0.5	0.5



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DRAWN BY: V. SRIPAL
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STRUCTURAL

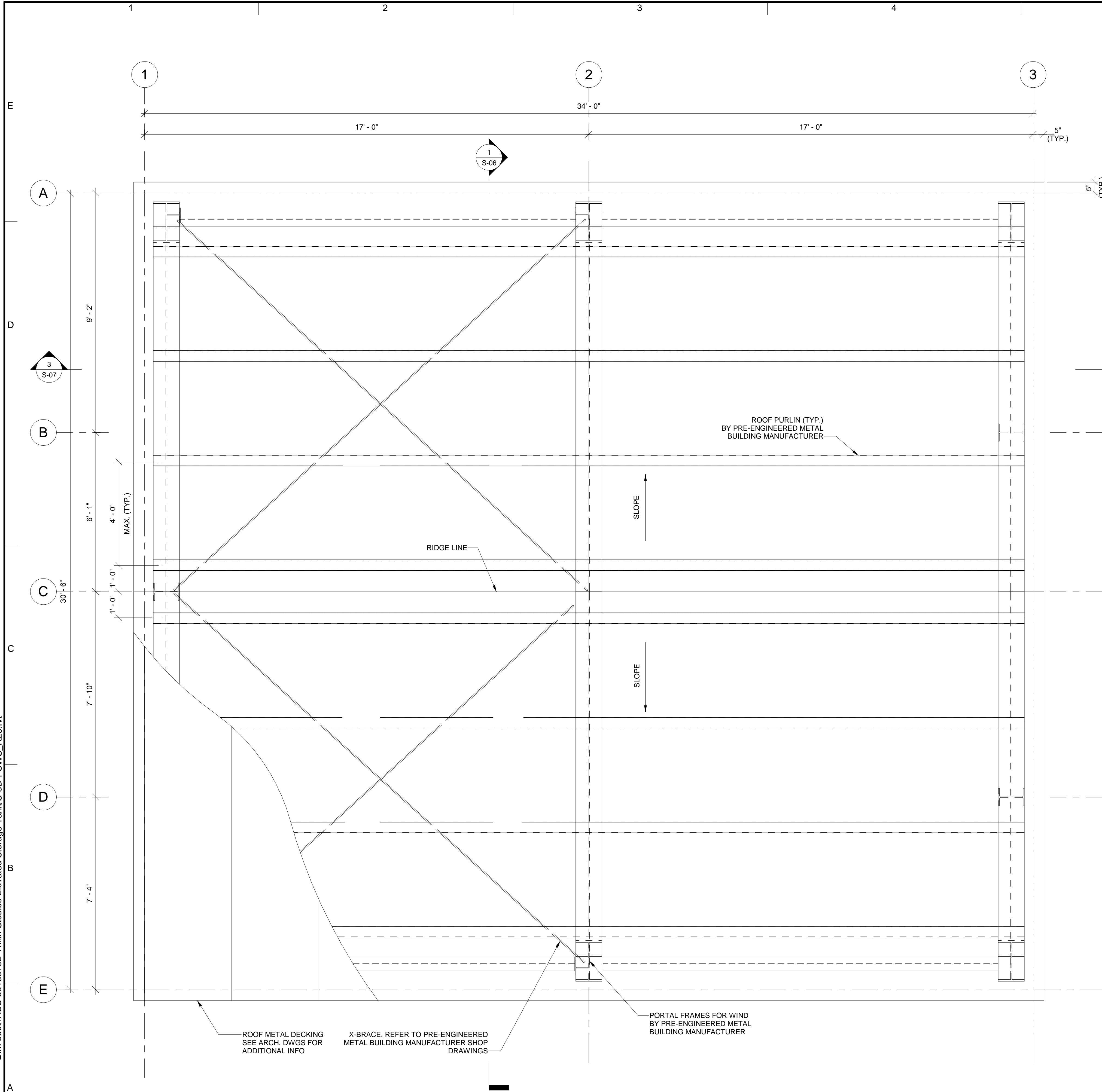
BASE SLAB PLAN

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

S-04

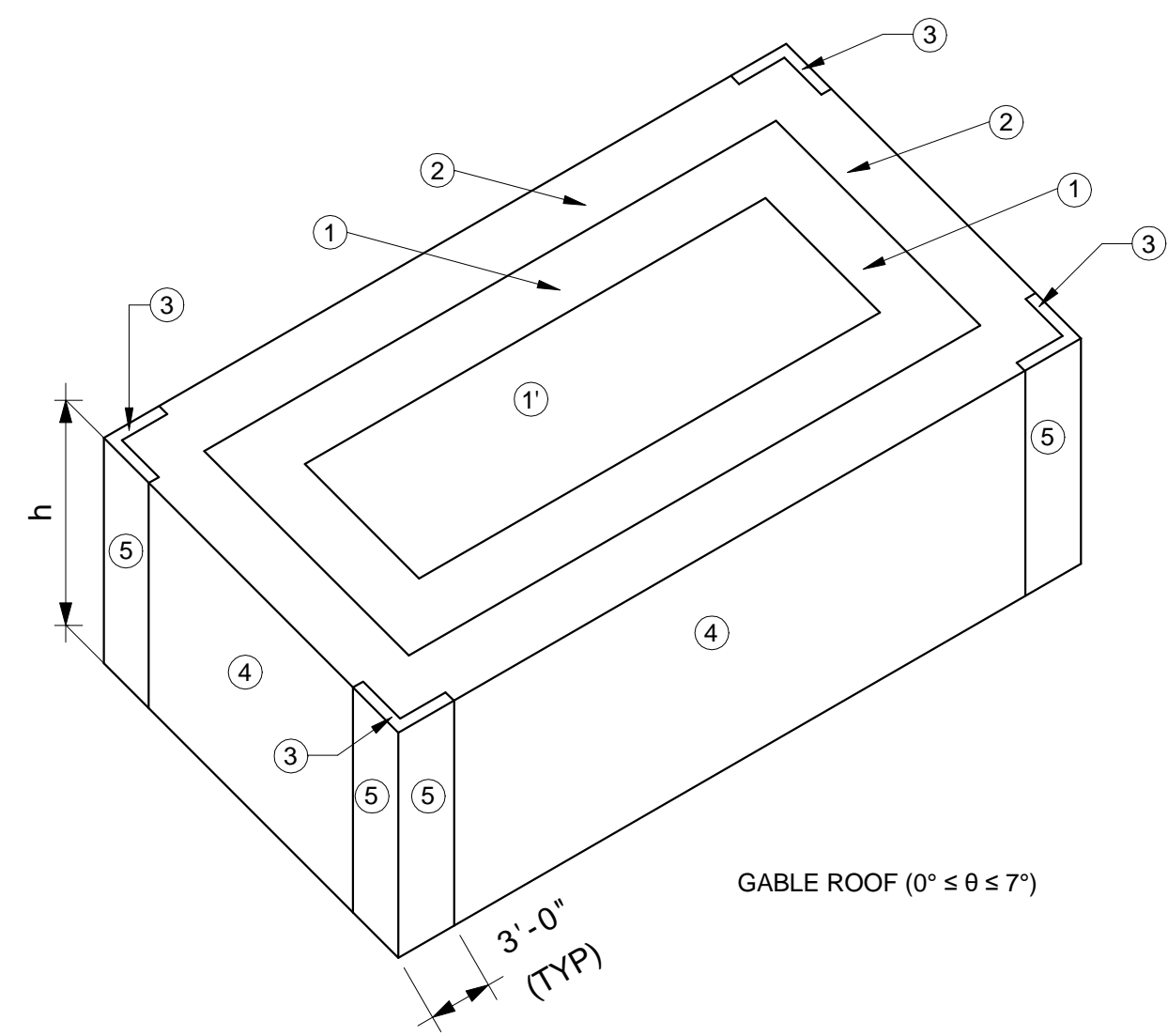
SHEET 34 OF 60

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07-07-2023 19:13:34



ROOF FRAMING PLAN

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



STRUCTURAL DESIGN CRITERIA - BOOSTER PUMP STATION BUILDING		
ITEM	VALUE	REMARKS
ULTIMATE DESIGN 3-SEC GUST WIND SPEED (V_{ult})	114-MPH	ASCE 7-16
NOMINAL DESIGN 3-SEC GUST WIND SPEED (V_{asd})	89-MPH	
RISK CATEGORY	III	
WIND EXPOSURE CATEGORY	C	
ROOF COLLATERAL LOAD	5 PSF	
ROOF LIVE LOAD	20 PSF	
DEAD LOAD	5 PSF	
SNOW LOAD	5 PSF	

COMPONENTS AND CLADDING WIND PRESSURE															
		ULTIMATE DESIGN WIND PRESSURE (PSF)								NOMINAL DESIGN WIND PRESSURE (PSF)					
		TRIBUTARY AREA								TRIBUTARY AREA					
		10 SF		50 SF		100 SF				10 SF		50 SF		100 SF	
ROOF ZONE							ROOF ZONE								
1	20.8	-35.5	18.6	-35.5	18.4	-35.5	1	16.0	-21.6	16.0	-21.6	16.0	-21.6		
1'	20.8	-55.1	18.6	-47.8	18.4	-45.3	1'	16.0	-33.5	16.0	-29.1	16.0	-27.6		
2	20.8	-69.8	18.6	-60.0	18.4	-57.6	2	16.0	-42.5	16.0	-36.5	16.0	-35.0		
3	20.8	-91.9	18.6	-74.7	18.4	-67.4	3	16.0	-55.9	16.0	-45.4	16.0	-41.0		
WALL ZONE							WALL ZONE								
4	38.0	-40.4	34.3	-38.0	33.1	-36.8	4	16.0	-24.6	20.9	-23.1	20.1	-22.4		
5	38.0	-47.8	34.3	-42.6	33.1	-39.2	5	16.0	-29.1	20.9	-25.9	20.1	-23.8		

WIND PRESSURE TABLE NOTES:

- DESIGN WIND PRESSURES REPRESENT THE NET PRESSURE (SUM OF INTERNAL AND EXTERNAL PRESSURE) APPLIED NORMAL TO ALL SURFACES.
- LINEAR INTERPOLATION BETWEEN VALUES OF TRIBUTARY AREA IS PERMISSIBLE.
- (+) POSITIVE VALUES ARE WIND TOWARDS THE SURFACE; (-) NEGATIVE VALUES ARE WIND AWAY FROM SURFACE.
- ROOF ZONES ARE 1 THROUGH 3.
- WALL ZONES ARE 4 & 5.
- ULTIMATE WIND PRESSURES ARE FOR WINDOWS, DOORS, LIGHT GAGE METAL FRAMING, ROOFING AND ACCESSORIES, AND OTHER BUILDING COMPONENTS AND CLADDING.



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DRAWN BY:	V. SRIPAL
CHECKED BY:	D. DUNCAN

SHEET TITLE

STRUCTURAL

ROOF PLAN

SCALE:

1/2" = 1'-0"

S-05

SHEET 35 OF 60



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QUEST TITLE

STRUCTURAL

SECTION (SHEET 1 OF 2)

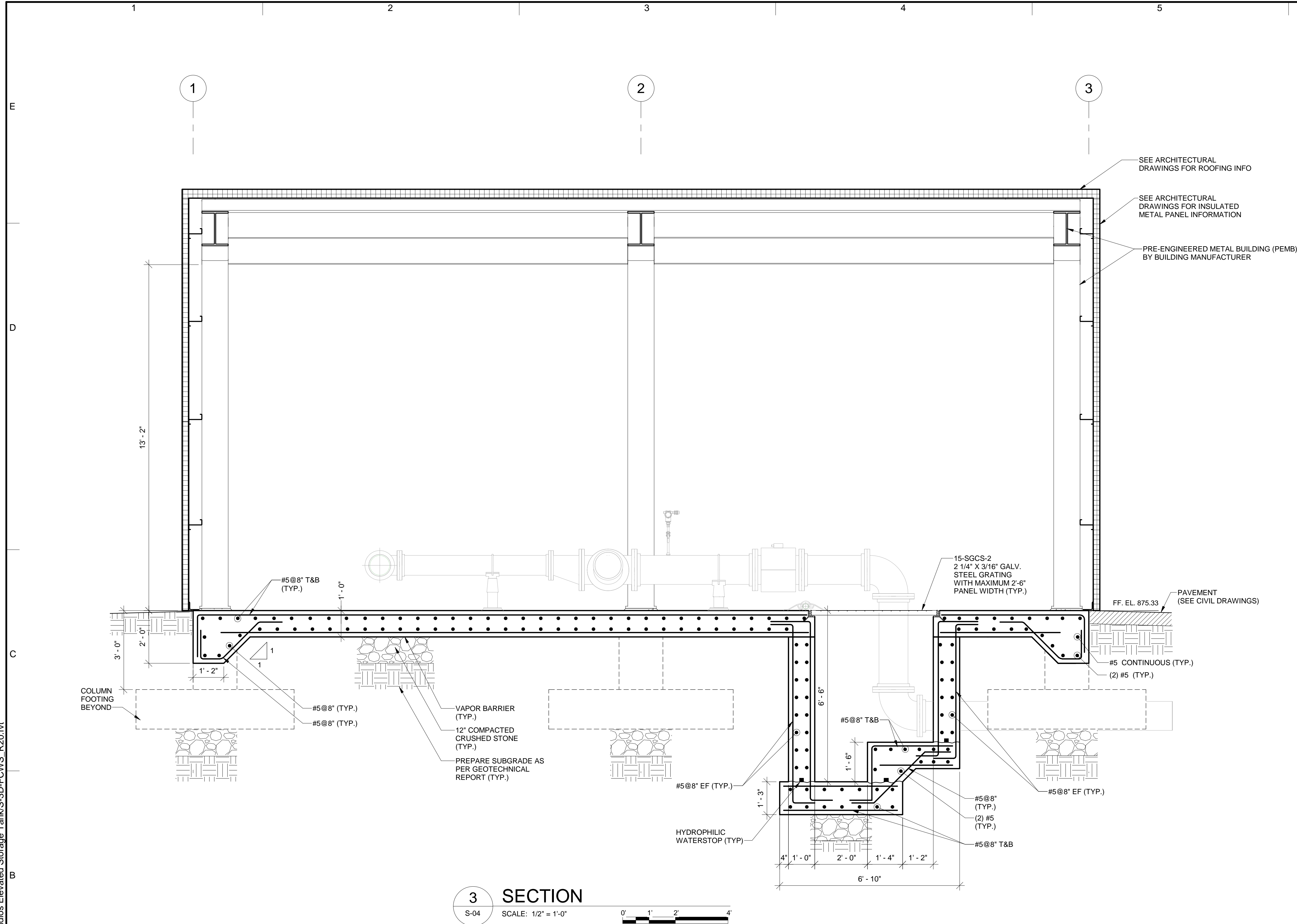
SCALE: $1/2" = 1'-0"$

S-06

SHEET 36 OF 60



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3 SECTION
S-04 SCALE: 1/2" = 1'-0"
0' 1' 2' 4'



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DESIGNED BY: C. GALLO / P. LUNKAD

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SHEET TITLE

STRUCTURAL

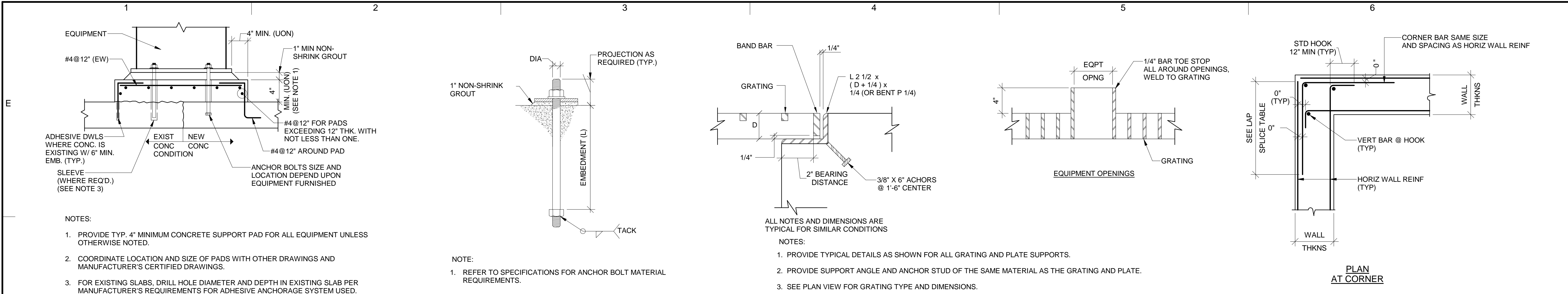
SECTION (SHEET 2 OF 2)

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

S-07

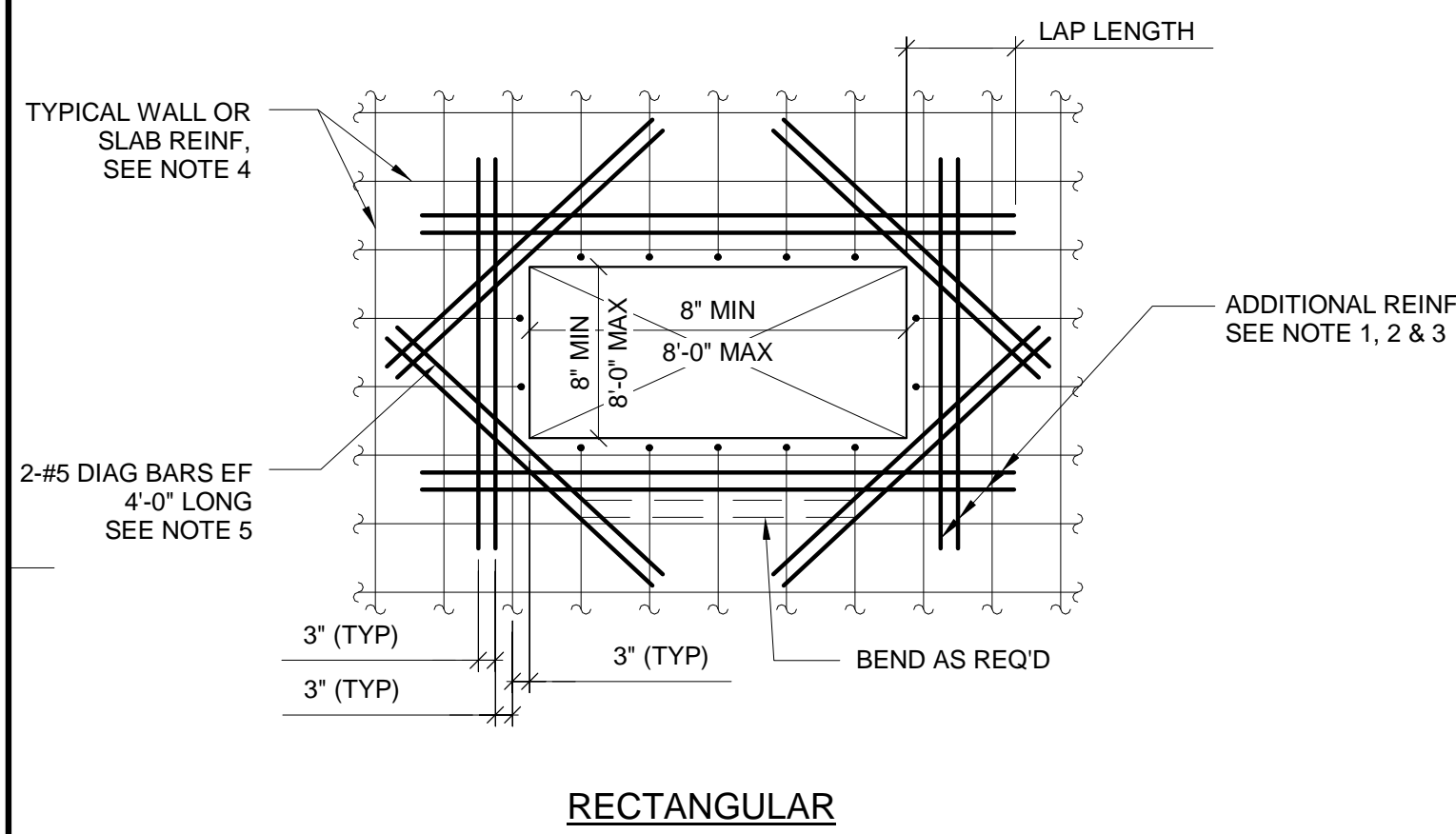
SHEET 37 OF 60

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TYPICAL EQUIPMENT SUPPORT PAD DETAIL

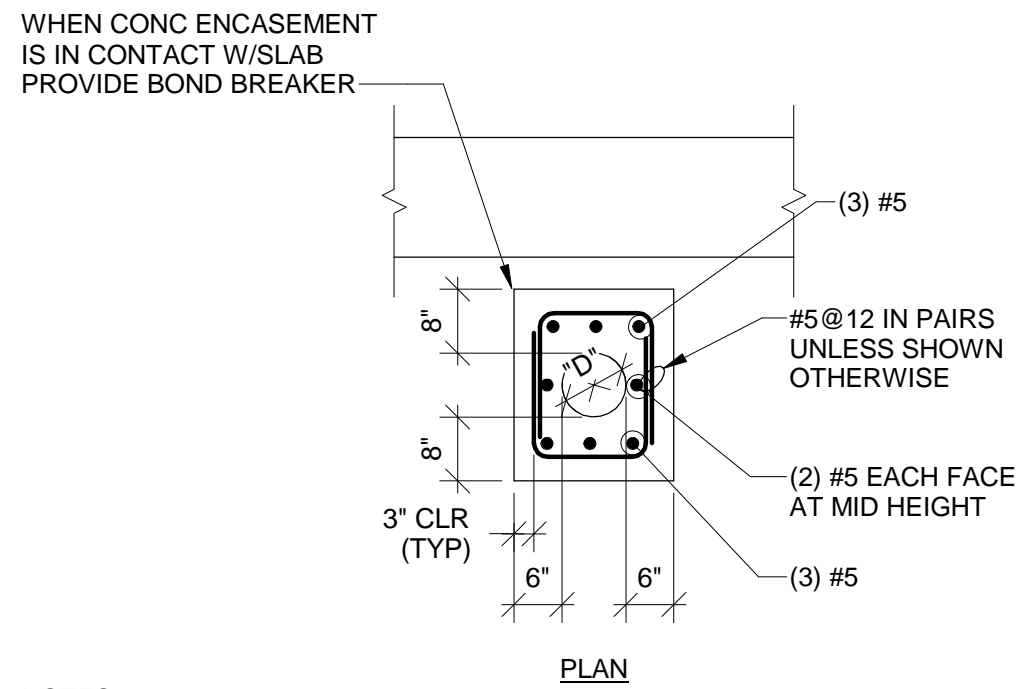
NOT TO SCALE



TYPICAL REINFORCING AROUND OPENING IN WALL AND SLAB

NOT TO SCALE

- NOTES:
1. PROVIDE ADDITIONAL REINFORCEMENT AT EACH SIDE OF ALL OPENINGS, ACCESS HATCHES, PIPE PENETRATIONS, ETC. EQUAL IN AREA TO 1/2 OR MORE OF THE AREA OF REINFORCEMENT CUT BY OPENING IN EACH DIRECTION. ADDITIONAL REINFORCEMENT TO MATCH SIZE OF TYPICAL REINFORCEMENT (MIN. 2 BARS ES AND EF) AND PLACED BETWEEN TYPICAL REINFORCEMENT @ 3" SPACING ON EACH SIDE OF OPENING. IF A WALL OR BEAM IS ADJACENT TO THE OPENING, THE ADDITIONAL REINFORCEMENT ON THAT SIDE OF THE OPENING CAN BE OMITTED.
 2. ANY OPENING 12" OR LESS FROM AN ADJACENT WALL DOES NOT REQUIRE ADDITIONAL REINFORCEMENT AT THAT SIDE OF OPENING.
 3. PROVIDE MATCHING DOWELS WHERE REQUIRED TO PROVIDE CLASS "B" LAP WITH ADDITIONAL REINFORCEMENT. (WHERE LAPPING OF ADDITIONAL REINFORCEMENT FROM ADJACENT OPENINGS OCCUR, ADDITIONAL REINFORCEMENT SHALL BE COMBINED).
 4. PROVIDE STANDARD HOOK AT END OF ALL BARS TERMINATING AT OPENING.
 5. DIAGONAL BARS INNERMOST LAYER.



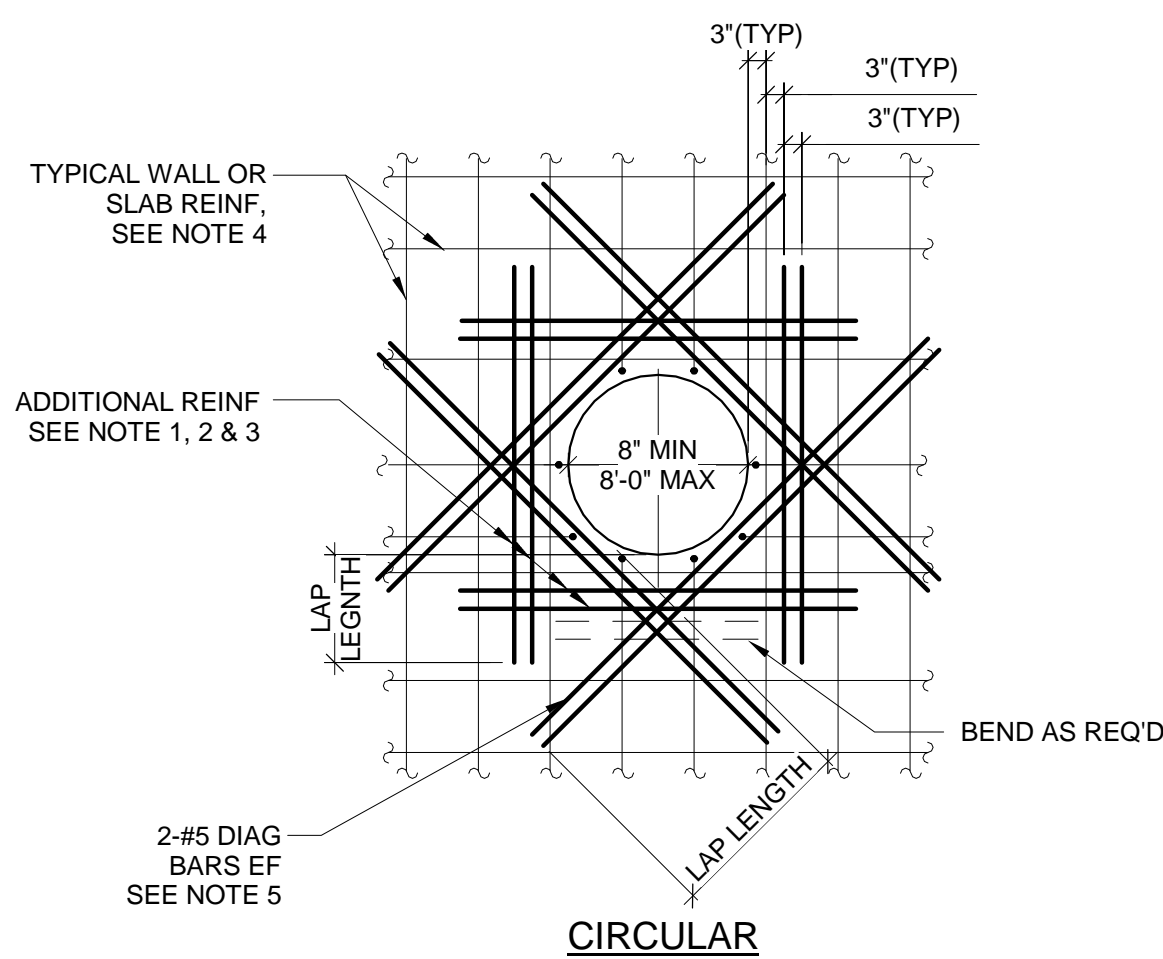
- NOTES:
1. FOR PIPE DIAMETER AND ELEVATION, SEE CIVIL, MECHANICAL, HVAC AND PLUMBING DRAWINGS.
 2. ALL PIPES LOCATED BENEATH STRUCTURES SHALL BE IN CONCRETE. ENCASEMENT SHALL EXTEND 5'-0" (MIN) BEYOND STRUCTURE.
 3. PROVIDE COMPACTED SELECT FILL TO UNDERSIDE OF PIPE ENCASEMENT AS PER GEOTECHNICAL RECOMMENDATIONS.
 4. CONCRETE PIPE ENCASEMENT SHALL BE CAST SEPARATELY FROM THE CONCRETE SLAB. PROVIDE BOND BREAKER OR LAYER OF SELECT FILL BETWEEN ENCASEMENT AND CONCRETE SLAB.
 5. BOTTOM REINFORCEMENT TO BE CONTINUOUS WHERE POSSIBLE.

TYPICAL PIPE ENCASEMENT DETAIL

NOT TO SCALE

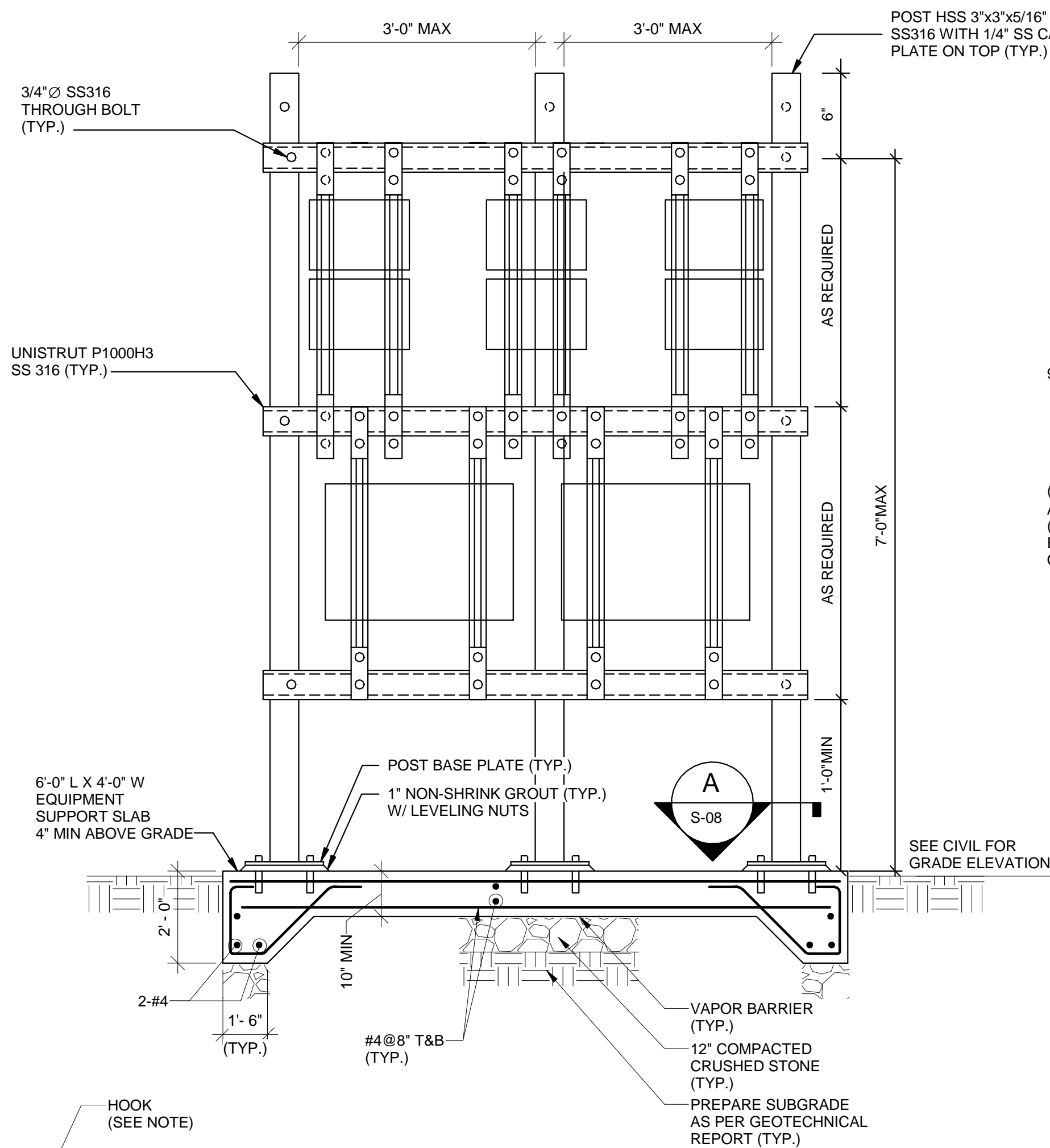
TYPICAL ANCHOR BOLT DETAIL

NOT TO SCALE



TYPICAL GRATING SUPPORT DETAILS

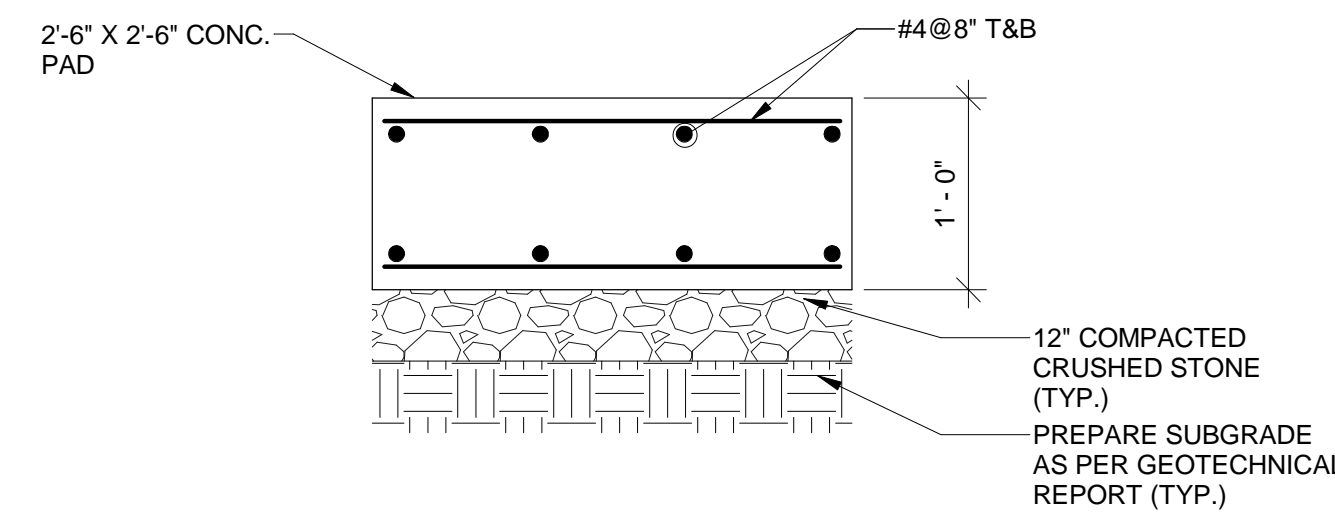
NOT TO SCALE



OUTDOOR ELECTRICAL EQUIPMENT ASSEMBLY SUPPORT DETAIL

NOT TO SCALE

NOTE:
SLOPE SLAB PROJECTION TO DRAIN



TYPICAL PIPE SUPPORT DETAIL

NOT TO SCALE



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DRAWN BY: V. SRIPAL
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SHEET TITLE

STRUCTURAL

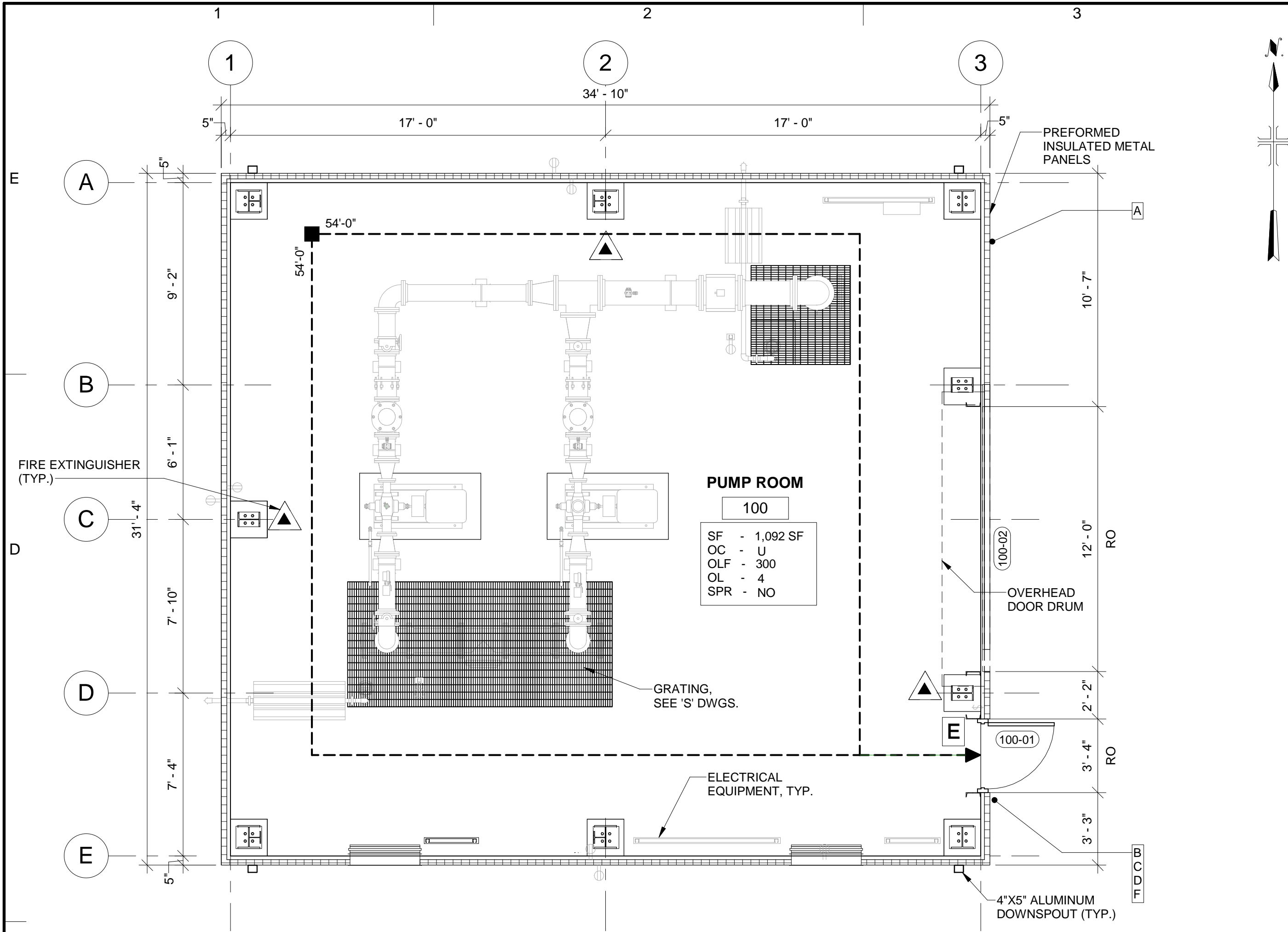
TYPICAL DETAILS

SCALE: NOT TO SCALE

S-08

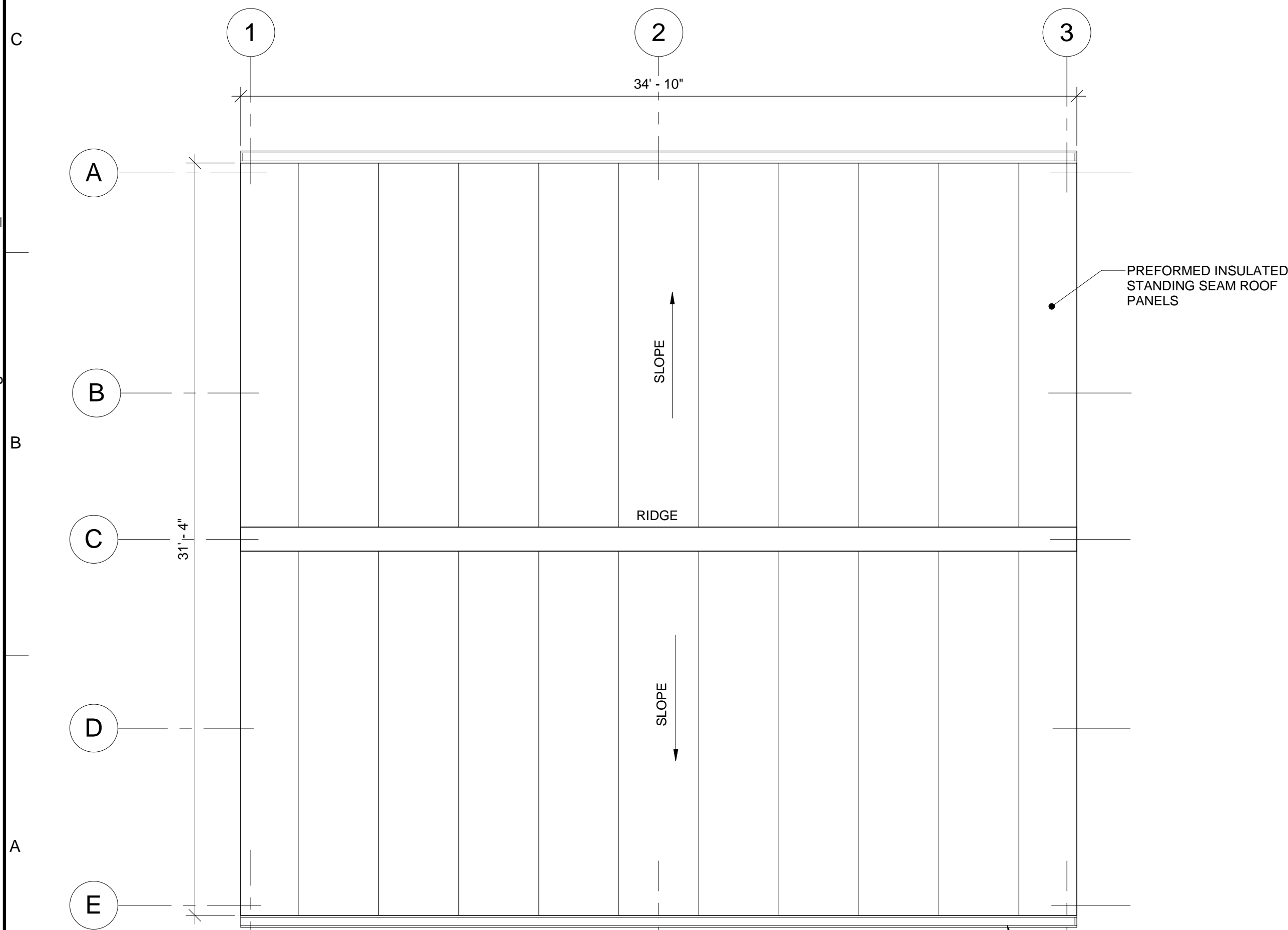
SHEET 38 OF 60

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FLOOR PLAN

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



ROOF PLAN

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



EXTERIOR FINISH AND BASIS OF DESIGN NOTES

1. PREFORMED INSULATED METAL PANELS:
 - 1.1. MANUFACTURER: KINGSPAN
 - 1.2. MODEL: KS OPTIMO, VERTICAL PANELS
 - 1.3. PROFILE/FINISH: EXTERIOR - FLAT, NON-EMBOSSED
INTERIOR - SHADOWLINE, NON-EMBOSSED
 - 1.4. PANEL SIZE: THICKNESS - 2"; WIDTH 40"; 3/8" REVEAL
 - 1.5. PANEL GAUGE: EXTERIOR 22 GA; INTERIOR 24 GA
 - 1.6. COLOR: SOLID PVDF COATING, CUSTOM COLORS; COOL CHARCOAL (PPG 1007-6) & GREYHOUND (PPG 1008-3)
2. PREFORMED INSULATED TRAPEZOIDAL METAL ROOF PANELS:
 - 2.1. MANUFACTURER: KINGSPAN
 - 2.2. MODEL: KINGRIB 3
 - 2.3. PROFILE/FINISH: EXTERIOR - MESA W/ TRAPEZOIDAL RIBS; INTERIOR MESA
 - 2.4. PANEL SIZE: THICKNESS - 4"; WIDTH - 40"
 - 2.5. PANEL GAUGE: EXTERIOR 22GA; INTERIOR 22GA
 - 2.6. COLOR: PREMIUM PVDF COATING, BLACK MAGIC (PPG 1001-7)
 - 2.7. TRIM COLOR: BLACK MAGIC (PPG 1001-7)
3. GUTTER:
 - 3.1. MANUFACTURER: SAF
 - 3.2. SMACNA SHAPE: STYLE I
 - 3.3. SIZE: 6" X 6"
 - 3.4. FEATURE: LEAF GUARD MESH OR PERFORATED PANEL
 - 3.5. COLOR: MATCH BUILDING TRIM COLOR
4. DOWNSPOUT:
 - 4.1. MANUFACTURER: SAF
 - 4.2. SMACNA SHAPE: RECTANGULAR FLAT
 - 4.3. SIZE: 4" X 5"
 - 4.4. STRAP STYLE: "U" SHAPE (SMACNA FIG 1-35A)
 - 4.5. COLOR: MATCH BUILDING TRIM COLOR
5. OVERHEAD DOOR:
 - 5.1. MANUFACTURER: OVERHEAD DOOR COMPANY
 - 5.2. MODEL: 620 HEAVY-DUTY STORMTITE SERVICE DOOR
 - 5.3. DOOR SLAT PROFILE: F-265I, 24GA
 - 5.4. DOOR DESIGN: 50,000 CYCLES
 - 5.5. DOOR OPERATION: MANUAL CHAIN
 - 5.6. COLOR: MATCH MAN DOOR COLOR
6. MAN DOORS:
 - 6.1. MANUFACTURER: CECO DOOR, ASSA ABLOY GROUP
 - 6.2. MODEL: ENERGY EFFICIENT STEEL STIFFENED DOOR (TRIO-E)
 - 6.3. DOOR CLASSIFICATION (SDI): LEVEL 3 AND PHYSICAL PERFORMANCE LEVEL A, MODEL 2
 - 6.4. STEEL TREATMENT: G60 MIN
 - 6.5. DOOR DESIGN (SDI): STYLE G
 - 6.6. COLOR: BLACK MAGIC (PPG 1001-7)

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE STATE OF GEORGIA CODES AND REGULATIONS, REFERENCE CODES:
 - 1.1. INTERNATIONAL BUILDING CODES, 2018 EDITION WITH GEORGIA AMENDMENTS
 - 1.2. INTERNATIONAL FIRE CODES, 2018 EDITION WITH GEORGIA AMENDMENTS
 - 1.3. INTERNATIONAL PLUMBING CODES, 2018 EDITION WITH GEORGIA AMENDMENTS
 - 1.4. INTERNATIONAL MECHANICAL CODES, 2018 EDITION WITH GEORGIA AMENDMENTS
 - 1.5. INTERNATIONAL ENERGY CONSERVATION CODES, 2015 EDITION WITH GEORGIA AMENDMENTS
 - 1.6. NATIONAL ELECTRICAL CODES, 2020 EDITION WITH GEORGIA AMENDMENTS
 - 1.7. NFPA 101 LIFE SAFETY CODE
 - 1.8. INTERNATIONAL FUEL GAS CODES, 2018 EDITION WITH GEORGIA AMENDMENTS
 - 1.9. GEORGIA ACCESSIBILITY CODE
2. ALL CONSTRUCTION WORK SHALL COMPLY WITH OSHA 1926 AND STATE AND LOCAL REGULATIONS.
3. BUILDING CODE CRITERIA
 - 3.1. CONSTRUCTION CLASSIFICATION: TYPE II B
 - 3.2. OCCUPANCY CLASSIFICATION: U "UTILITY", SINGLE TENANT
 - 3.3. FUNCTION: UNOCCUPIED PUMP STATION
 - 3.4. HEIGHT: ALLOWABLE: 55 FEET ; PROPOSED: 15'-6"
 - 3.5. STORY: ALLOWABLE: 2 STORIES ; PROPOSED: 1-STORY
 - 3.6. AREA: ALLOWABLE: 8,500 SF ; PROPOSED: 1,092 GSF
 - 3.7. FIRE PROTECTION:
 - 3.7.1. AUTOMATIC SPRINKLER SYSTEM: NOT REQUIRED; PROPOSED: NO
 - 3.7.2. AUTOMATIC SPRINKLERS: NOT REQUIRED; PROPOSED: NO
 - 3.7.3. ALTERNATIVE AUTOMATIC FIRE EXTINGUISHING SYSTEMS: NOT REQUIRED; PROPOSED: NO
 - 3.7.4. PORTABLE FIRE EXTINGUISHERS: REQUIRED; PROPOSED: YES
 - 3.7.5. FIRE ALARM AND DETECTION SYSTEM: NOT REQUIRED; PROPOSED: NO
 - 3.7.6. CARBON MONOXIDE DETECTION SYSTEM: NOT REQUIRED; PROPOSED: NO
 - 3.7.7. GAS DETECTION SYSTEM: NOT REQUIRED; PROPOSED: NO
 - 3.7.8. EMERGENCY RESPONDER RADIO COVERAGE: NOT REQUIRED; PROPOSED: NO
 - 3.8. MEAN OF EGRESS:
 - 3.8.1. TWO MEANS OF EGRESS NOT REQUIRED; ONE PROVIDED
 - 3.8.2. MAXIMUM TRAVEL DISTANCE ALLOWED: 100'; MAXIMUM ACTUAL TRAVEL DISTANCE: 54'
4. ACCESSIBILITY CRITERIA
 - 4.1. UNMANNED PUMP STATION IS EXEMPT FROM THE ACCESSIBILITY CODE PROVISION BASED ON SECTION BC1103.2.4 UTILITY BUILDINGS AND BC1103.2.9 EQUIPMENT SPACES.
5. PLUMBING FIXTURE - BUILDING IS AN UNMANNED UTILITY OCCUPANCY AND THEREFORE PLUMBING FIXTURE COUNT DOES NOT APPLY.
6. ENERGY CONSERVATION CRITERIA
 - 6.1. CLIMATE ZONE: 3A
 - 6.2. COMPLIANCE METHOD: PRESCRIPTIVE
 - 6.3. ROOF ASSEMBLY: REQUIRED: R-25 CI OR U-0.039; PROPOSED: R-28.4
 - 6.4. WALL ASSEMBLY: REQUIRED: R-7.6CI OR U-0.123 ; PROPOSED: R-14.4
 - 6.5. FLOOR PERIMETER ASSEMBLY: REQUIRED: NOT REQUIRED OR F-0.73; PROPOSED:
 - 6.6. OPAQUE DOOR (OVERHEAD) ASSEMBLY: REQUIRED: R-4.75
PROPOSED: R-5.3
 - 6.7. SWINGING DOOR ASSEMBLY: REQUIRED: U-0.61 ; PROPOSED: U-0.14
 - 6.8. ROOF: SOLAR REFLECTANCE AND THERMAL EMITTANCE
 - 6.8.1. MINIMUM 3-YEAR AGED SOLAR REFLECTANCE OF 0.55
 - 6.8.2. MINIMUM 3-YEAR AGED THERMAL EMITTANCE OF 0.75
 - 6.9. AIR BARRIER COMPLIANCE: SHEET STEEL OR ALUMINUM PER IECC C402.5.1.2.1.

LIFE SAFETY SYMBOLS LEGEND:

- | | |
|-----|---|
| | FIRE EXTINGUISHER
(WALL/COLUMN MOUNTED) |
| | EXIT SIGN |
| | INDICATES DIRECTION OF
EGRESS PATH ## IS DISTANCE
IN FEET TO EXIT FROM
SQUARE DOT TO ARROW |
| SF | SQUARE FEET |
| OLF | OCCUPANT LOAD FACTOR (AREA
PER OCCUPANT) |
| OL | OCCUPANT LOAD (EXIT LOAD
ONLY) |
| SPR | AUTOMATIC SPRINKLER SYSTEM |
| OC | OCCUPANT CLASSIFICATION |
| | SIGN TYPE |



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SEALS

ISSUE FOR BID

FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER
SYSTEM



FCWS-TRILITH STUDIOS
ELEVATED WATER
STORAGE TANK

400 VETERANS PARKWAY,
FAYETTEVILLE, GA 30214,
UNITED STATES

REVISIONS

0	07/07/2023	ISSUE FOR BID	ED
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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792
DATE: JULY 2023
FILE NAME: A-01
DESIGNED BY: E. DAWKINS
DRAWN BY: V. SRIPAL
CHECKED BY: E. DAWKINS

SHEET TITLE

ARCHITECTURAL

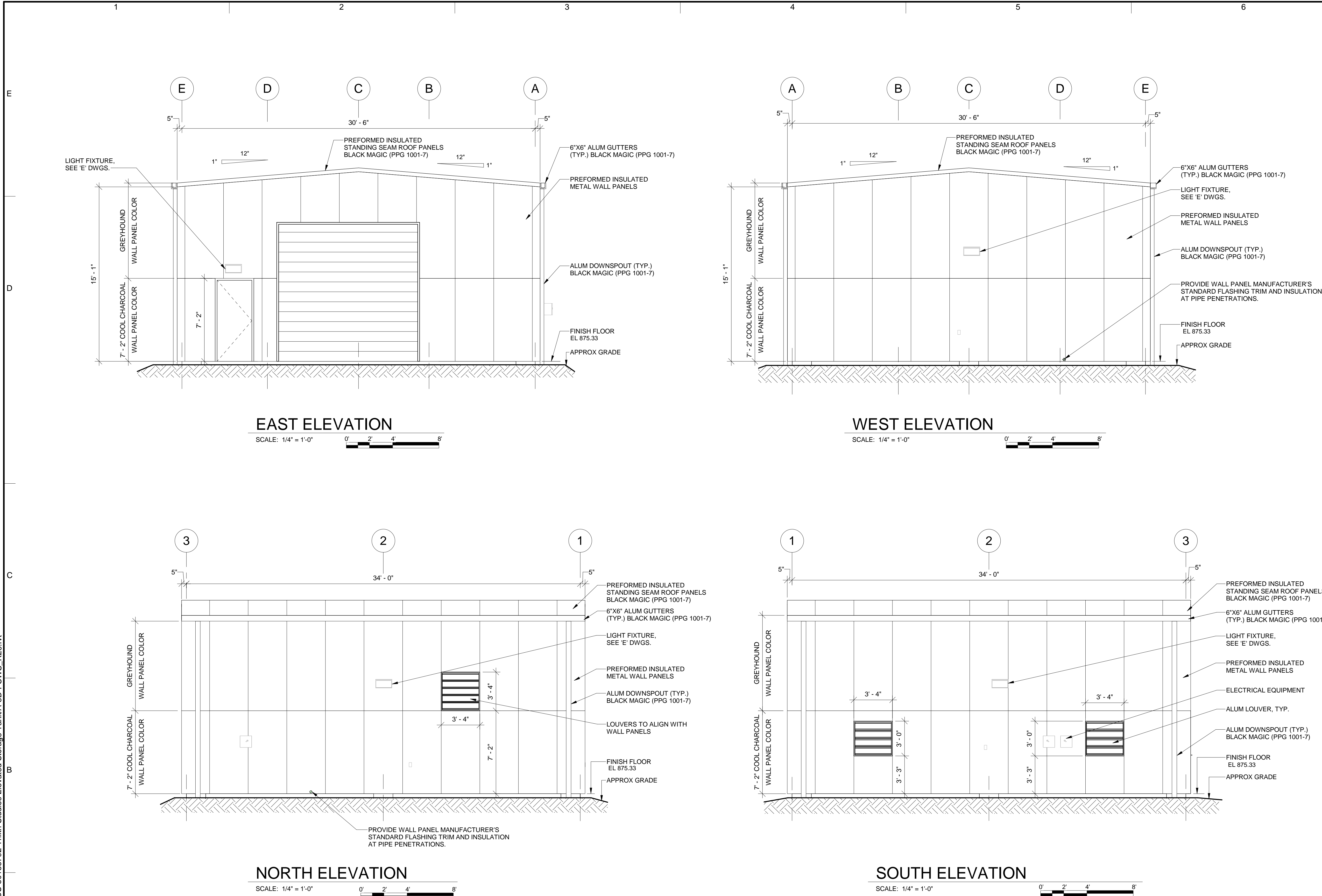
BOOSTER PUMP
STATION BUILDING
GENERAL NOTES,
FLOOR AND ROOF
PLANS

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

A-01

SHEET 39 OF 60

BIM 360://AUS-30135792-Trilith Studios Elevated Storage Tank/A-3D-FCWS_R20.rvt 07-07-2023 14:32:45



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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: A-02

DESIGNED BY: E. DAWKINS

DRAWN BY: V. SRIPAL

CHECKED BY: E. DAWKINS

SHEET TITLE

ARCHITECTURAL

BOOSTER PUMP
STATION BUILDING

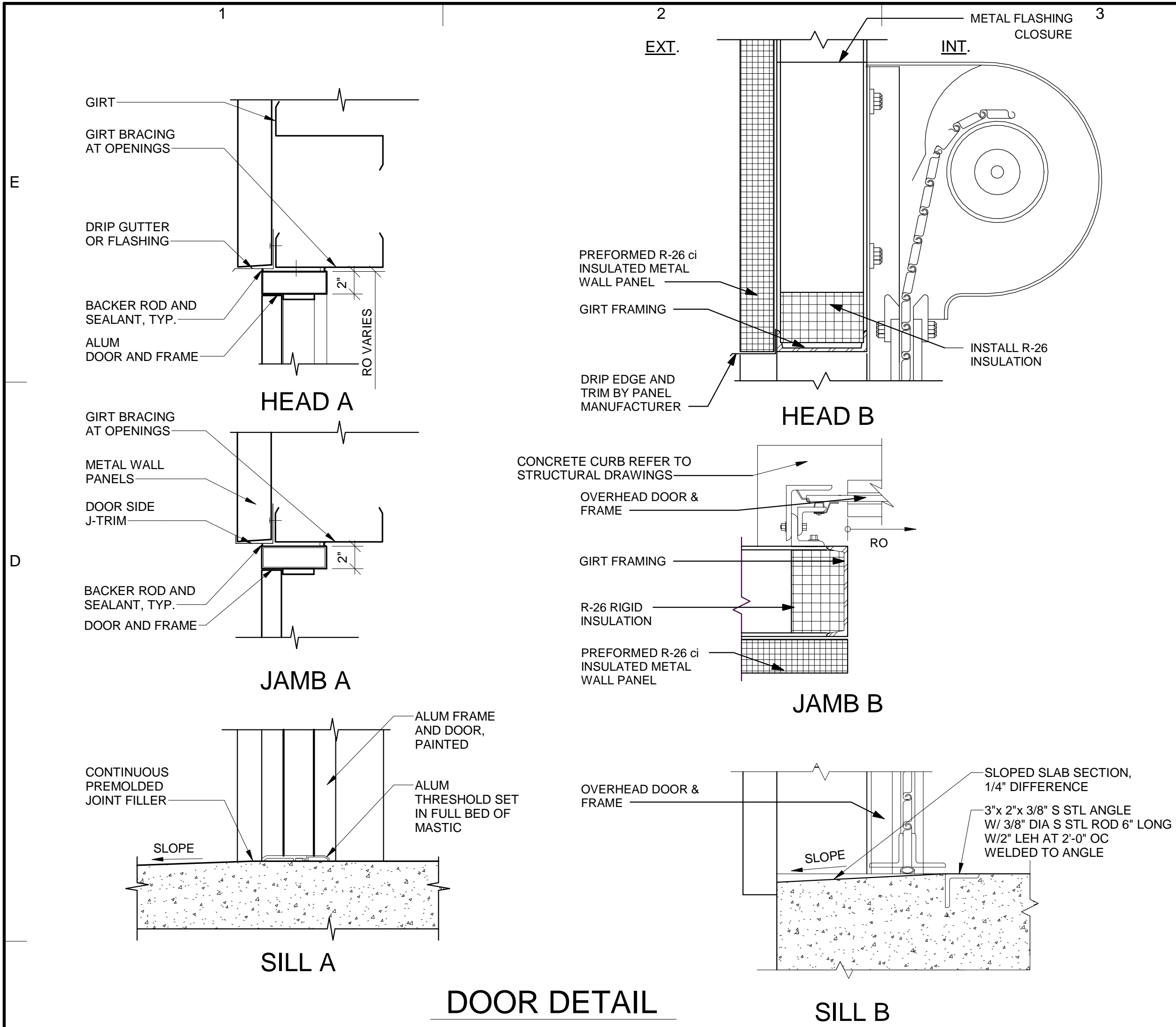
ELEVATIONS

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

A-02

SHEET 40 OF 60

BIM 360//AUS-30135792-Trilith Studios Elevated Storage Tank/A-3D-FCWS_R20.rvt
07-07-2023 14:32:48



DOOR AND FRAME SCHEDULE													
BUILDING NAME	DOOR NO.	DOOR SIZE		FRAME SIZE		FRAME DETAIL			MATERIAL	DOOR TYPE	HWD SET	FIRE RATING	NOTES
		WIDTH	HEIGHT	WIDTH	HEIGHT	HEAD	JAMB	SILL					
PUMP STATION BUILDING	100-01	3' - 0"	7' - 0"	3' - 4"	7' - 2"	A	A	A	1	A	1	N/A	
PUMP STATION BUILDING	100-02	12' - 0"	12' - 0"	12' - 0"	12' - 0"	B	B	B	2	B	-	N/A	

ROOM FINISH SCHEDULE																			
BUILDING NAME	ROOM NO.	ROOM NAME	FLOOR		WALLS												CEILING		NOTES
			MATERIAL	FINISH	NORTH			SOUTH			EAST			WEST			MATERIAL	FINISH	
					MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR			
PUMP STATION BUILDING	100	PUMP ROOM	C	CH	WP	*	WH	WP	*	WH	WP	*	WH	WP	*	WH	OPEN	-	

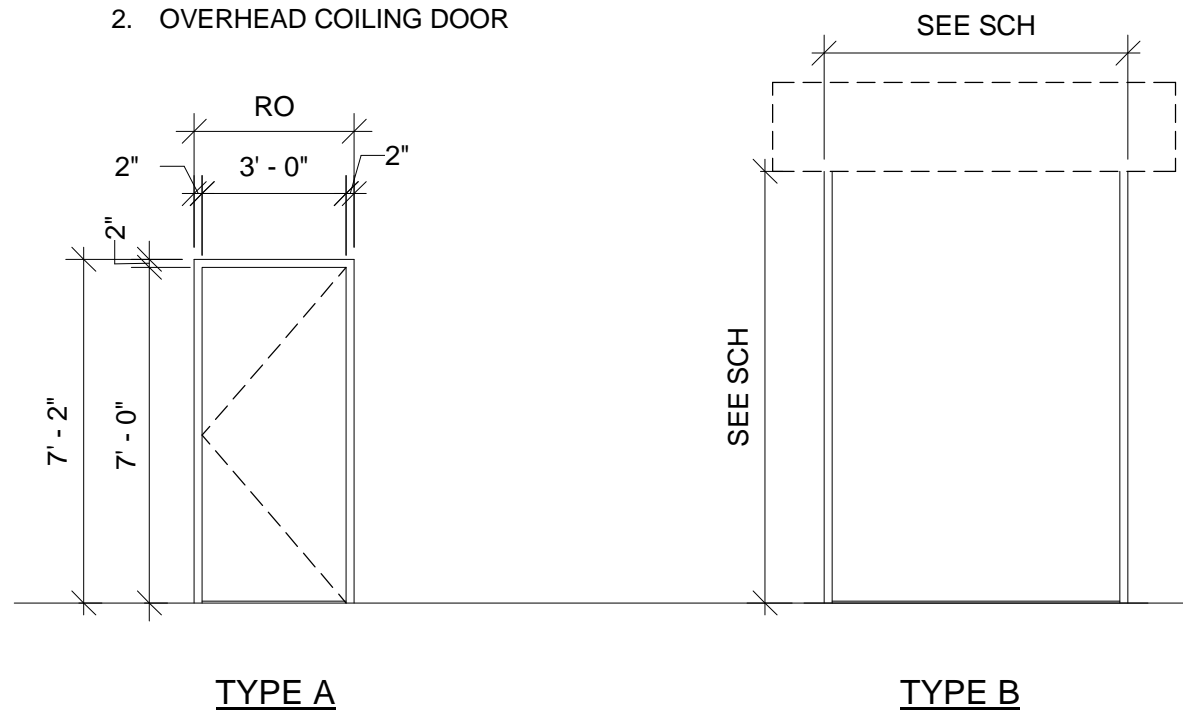
* INTERIOR OF METAL WALL PANELS ARE PREFINISHED FROM MANUFACTURER. CONTRACTOR TO PAINT ALL OTHER WALL AND ROOF SURFACES THAT ARE NOT PREFINISHED IN A WHITE COLOR TO MATCH PREFINISHED ITEMS.

NOTES:

- FIELD VERIFY ALL DIMENSIONS AND CONDITIONS.
- FOR DOOR HARDWARE TYPES SEE SPECIFICATIONS.
- FOR DOOR HAND, REFERENCE ARCHITECTURAL PLAN DRAWINGS.

DOOR MATERIALS:

- HOLLOW METAL DOOR
- OVERHEAD COILING DOOR



ROOM FINISH LEGEND

FLOORING

CH	CONCRETE W/HARDENER
GT	GRATING (SEE STRUCTURAL)
C	CONCRETE
OW	OFF-WHITE
P	PAINT

CEILING

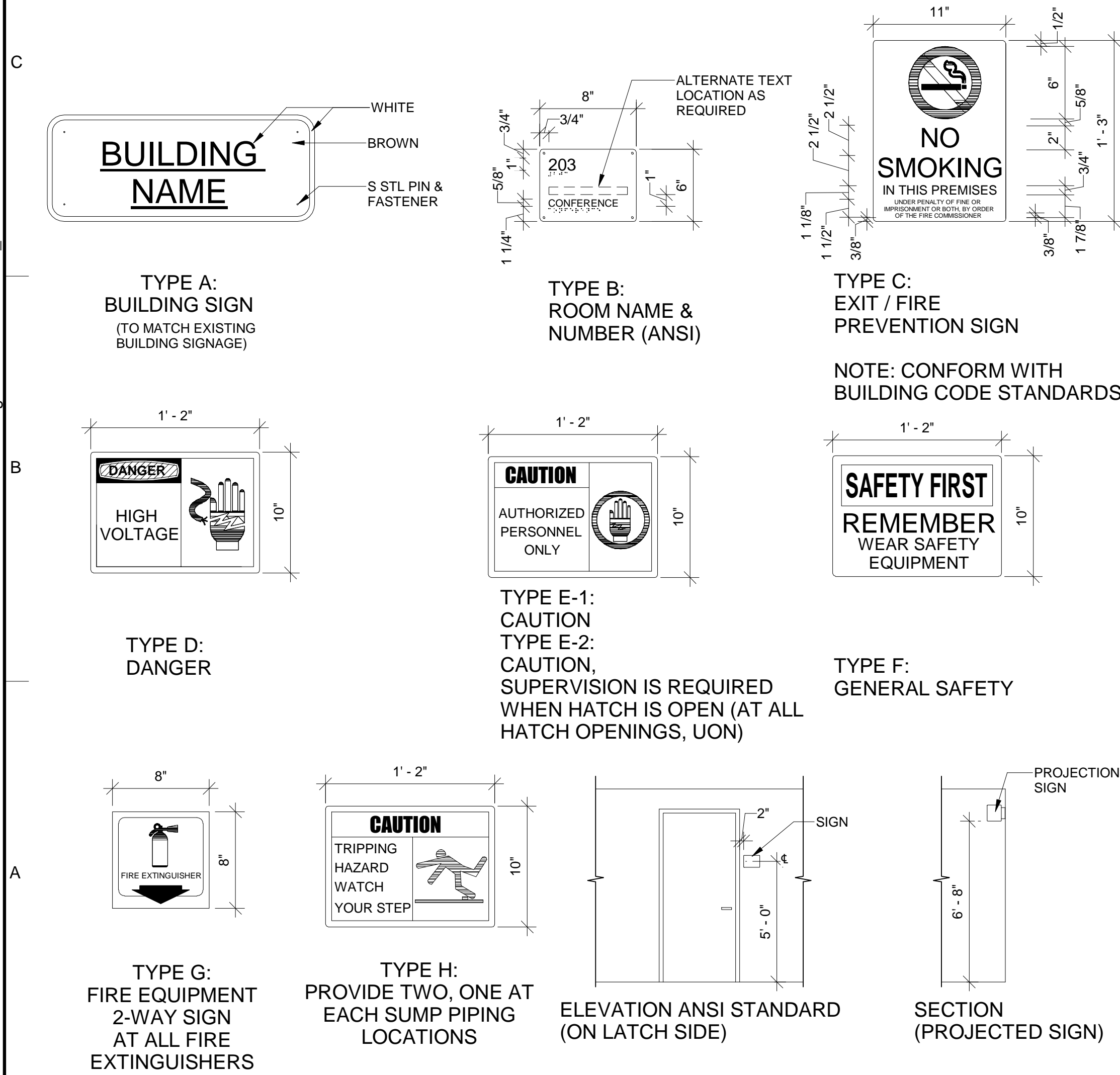
P	PAINT
OPEN	OPEN TO UNDERSIDE OF STRUCTURE

WALLS

CONC	CONCRETE
E-C	EXISTING CONCRETE
WP	WALL PANEL
P	PAINT
WH	WHITE
OW	OFF-WHITE

NOTES:

- REFER TO PAINTING SPECIFICATION SECTION 09 91 00 FOR PAINTING SCHEDULE.



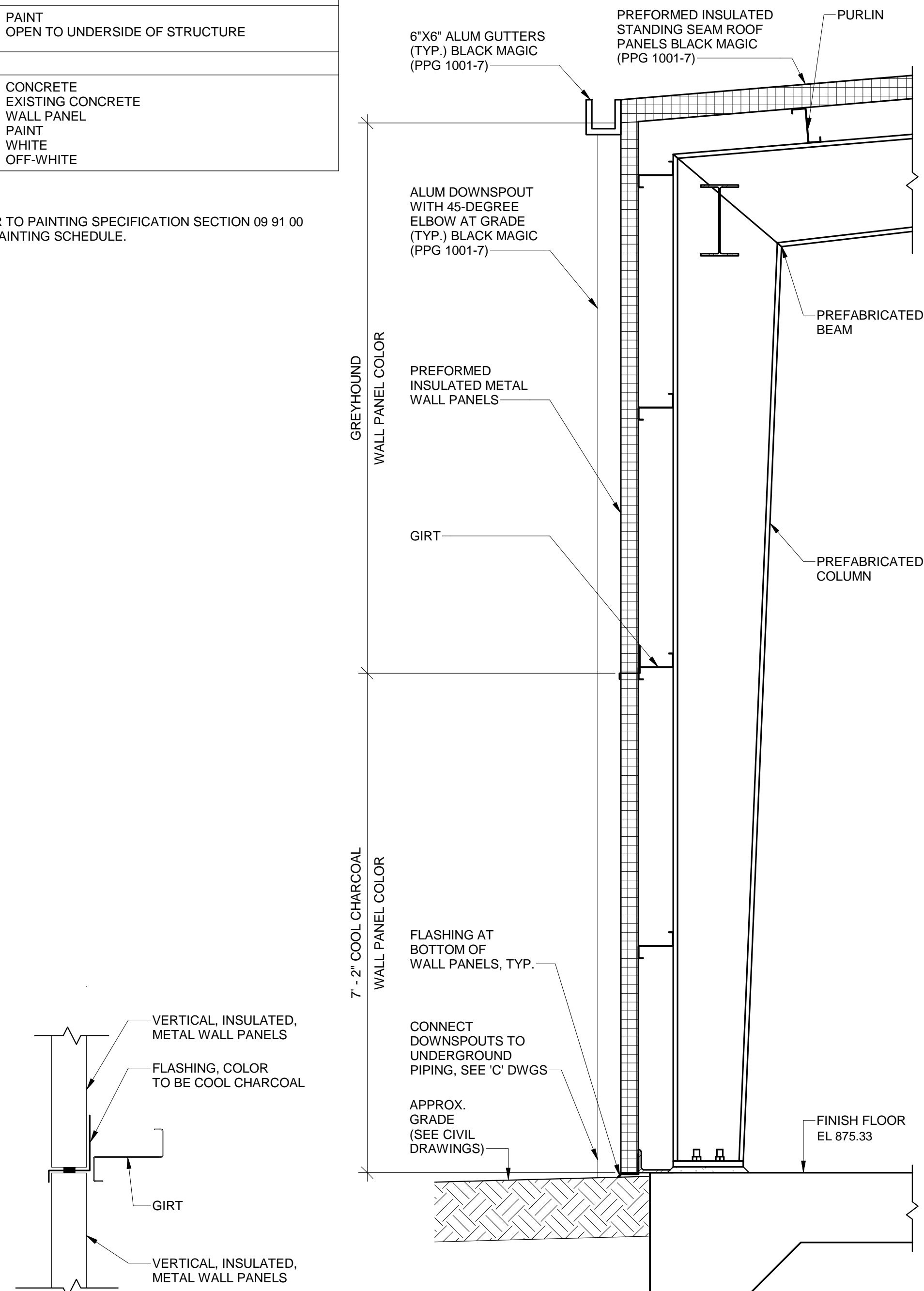
NOTES:

- FINAL SIGNAGE WORDING OF ALL SIGNS TO BE DETERMINED AFTER AWARD OF CONTRACT.
- IN ADDITION TO SIGN DESIGNATIONS SHOWN ON PLANS, PROVIDE THE FOLLOWING SIGNS OF EACH TYPE SHOWN ON THIS DRAWING. TEXT AND LOCATION TO BE PROVIDED TO CONTRACTOR AFTER AWARD OF CONTRACT.

FACILITY NAMES	SIGNAGE TYPE							
	A	B	C	D	E	F	G	H
PUMP STATION	0	0	0	0	2	0	0	0
VALVE VAULT (E-2)	0	0	0	0	1	0	0	0
ENTRANCE GATE (E-1)	0	0	0	0	1	0	0	0
TOTAL # OF EXTRA SIGNS	0	0	0	0	2	0	0	0

- FOR SIGNAGE LOCATIONS REFERENCE DRAWING A-01.

- THE SIGNS SHOWN ON THIS SHEET ARE A COMPREHENSIVE STANDARD GUIDE INTENDED TO GRAPHICALLY INDICATE THE APPEARANCE OF THE SIGNS. THIS SHEET IS FOR GENERAL USE ON THE PROJECT. THEREFORE NOT ALL THE SIGNS CONTAINED ON THIS SHEET ARE NECESSARILY USED ON THIS PARTICULAR PROJECT AND SHOULD BE USED FOR CLARIFICATION ONLY.
- PROVIDE ALL PERMANENT DIRECTIONAL/INFORMATIONAL, ROOM NAME, BUILDING NAME, AREA NAME, ACCESSIBLE AREA, FIRE PREVENTION AND RESTRICTION SIGNS WITH BOTH RAISED TEXT AND BRAILLE TO COMPLY WITH ANSI A117.1, THE AMERICANS WITH DISABILITIES ACT OF 1990, OSHA REGULATIONS, NFPA GUIDELINES, AND THE GEORGIA STATE BUILDING CODE. FIELD VERIFY EXACT LOCATION OF SIGNS WITH PLANT MANAGEMENT AND ENGINEER.
- PROVIDE ALL ACCIDENT PREVENTION, HEALTH, SAFETY AND WARNING SIGNS IN COMPLIANCE WITH ANSI Z535.1, ANSI Z535.2, ANSI Z535.3 AND OSHA 1910.44 AND 1910.145. FIELD VERIFY EXACT LOCATION OF SIGNS WITH PLANT MANAGEMENT AND ENGINEER.
- COORDINATE WITH THE FIRE MARSHALL THE ITEMS REQUIRED TO BE INDICATED AND THEIR LOCATIONS. THE SIGNS SHALL BE REVIEWED AND APPROVED BY THE FIRE MARSHALL AND THE ENGINEER PRIOR TO FABRICATION. FIELD VERIFY WHICH SIGNS REQUIRE BEING SUSPENDED, AND WHAT THEY WILL BE SUSPENDED FROM.
- PROVIDE ENGINEER APPROVED MATERIALS AND FASTENERS TO SECURELY ATTACH AND SUSPEND THESE SIGNS. SUSP. DOUBLE SIDED SIGN - INDICATES SIGNS THAT WILL IN SOME CASES NEED TO BE SUSPENDED.
- THOSE THAT ARE SUSPENDED WILL BE A CUSTOM DOUBLE SIDED SIGN. FIELD VERIFY EXACT LOCATION. FIELD VERIFY DIRECTION ARROW HEADS SHOULD BE POINTING ON ALL DIRECTIONAL SIGNS.
- VERIFY EXACT LOCATION OF SIGNS WITH PLANT MANAGEMENT AND ENGINEER. ALL SIGNS SHALL BE PLACED SO THAT THEY ARE READILY VISIBLE AND READABLE.
- DOORS SHALL NOT BLOCK SIGNS WHEN IN OPEN POSITION. VERIFY EXACT ARRANGEMENT AND PLACEMENT OF SIGNS WITH PLANT MANAGEMENT AND ENGINEER.



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FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER SYSTEM



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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.:	30135792
DATE:	JULY 2023
FILE NAME:	A-03
DESIGNED BY:	E. DAWKINS
DRAWN BY:	V. SRIPAL
CHECKED BY:	E. DAWKINS

SHEET TITLE

ARCHITECTURAL

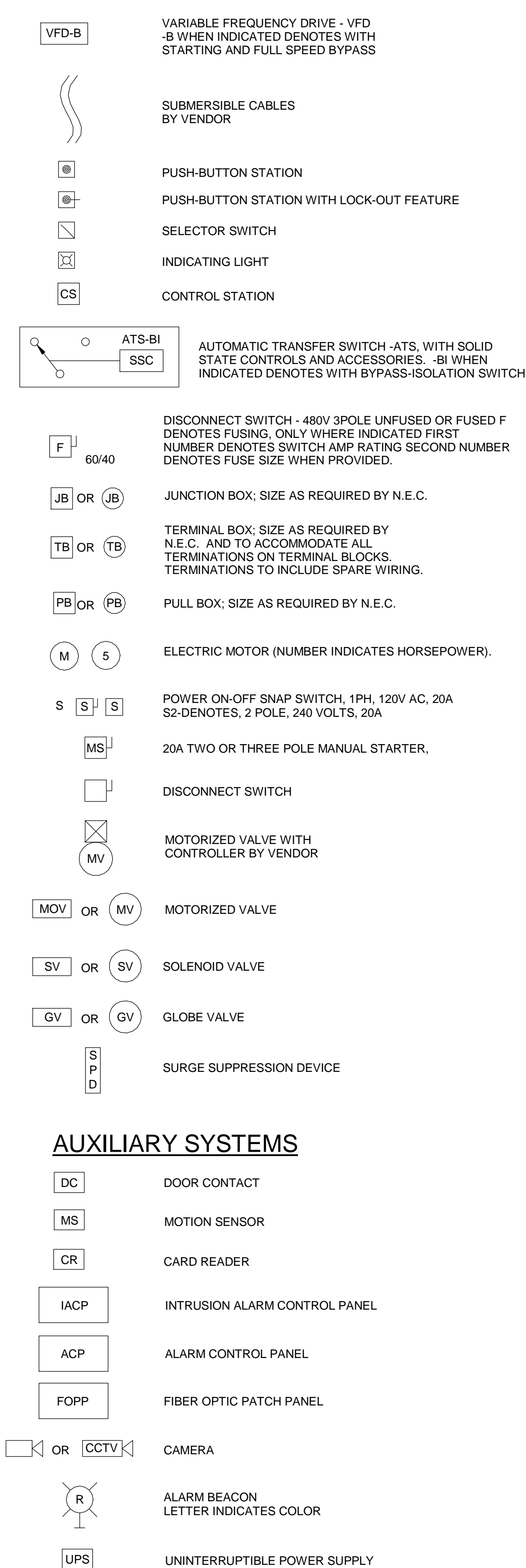
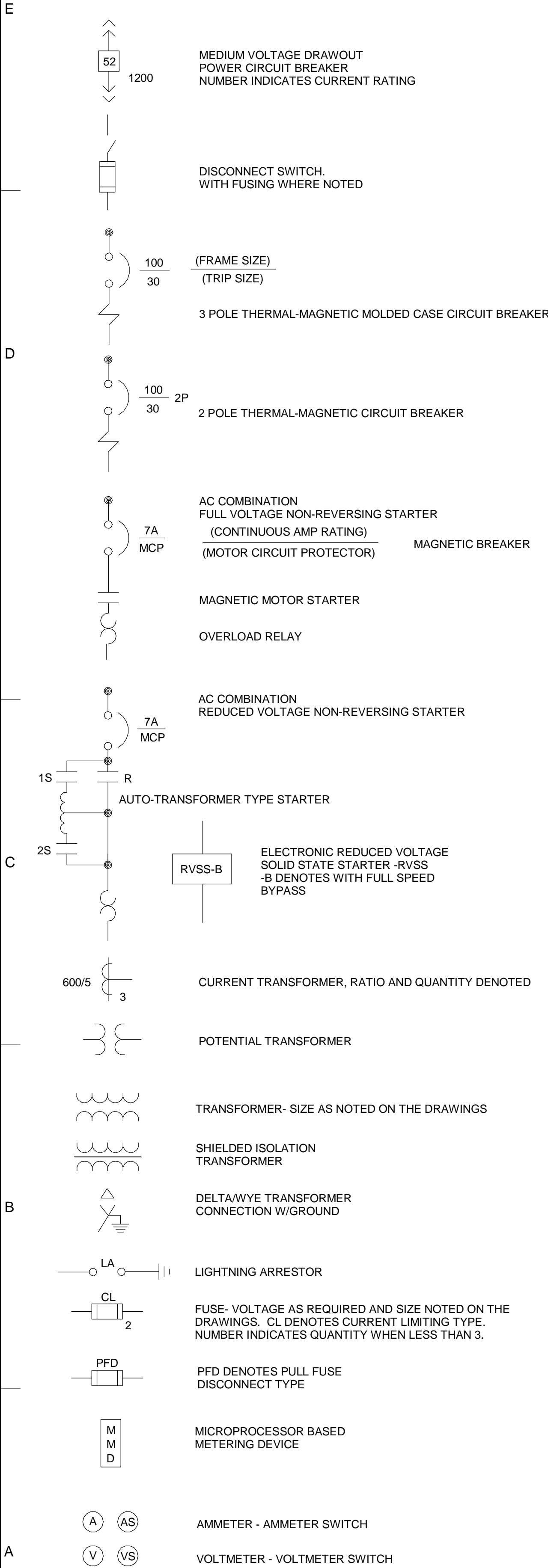
BOOSTER PUMP
STATION BUILDING
TYPICAL DOOR
DETAILS, SCHEDULES
AND SIGNAGE TYPES

SCALE: AS INDICATED

A-03

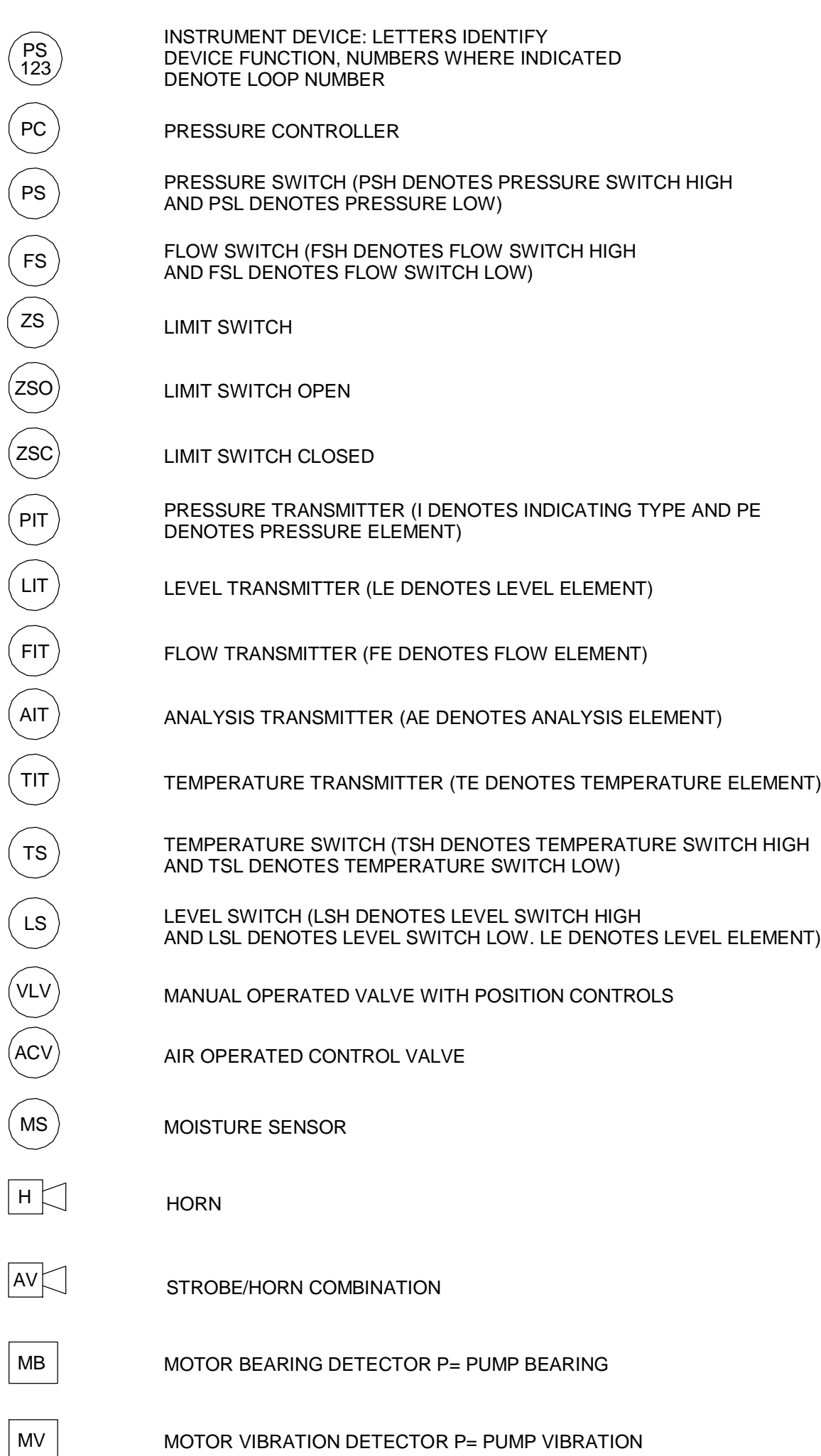
SHEET 41 OF 60

DIAGRAMS



AUXILIARY SYSTEMS

INSTRUMENTS



GENERAL NOTES:

- THE SYMBOLS AND ABBREVIATIONS LISTED REPRESENT A COMPREHENSIVE STANDARD GUIDE INTENDED FOR GENERAL USE ON ALL PROJECTS. THEREFORE, NOT ALL OF THE SYMBOLS AND ABBREVIATIONS CONTAINED ON THESE SHEETS ARE NECESSARILY USED ON THIS PARTICULAR CONTRACT.
- THE CONTRACTOR SHALL READ AND UNDERSTAND THE ENTIRE SET OF CONSTRUCTION DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO THE PLANS AND SPECIFICATIONS FOR ALL DISCIPLINES. THIS WILL ENSURE THAT HE UNDERSTANDS THE FULL SCOPE OF WORK AND IS ABLE TO CONVEY THE REQUIRED MATERIALS AND METHODS OF INSTALLATION TO THE ESTIMATORS, SUPPLIERS AND INSTALLERS.
- CONTRACTOR SHALL VISIT PROJECT SITE AND MAKE HIMSELF/HERSELF AWARE OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID FOR THIS WORK.
- COORDINATE ANY AND ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION IN ORDER TO AVOID CONFLICTS DURING CONSTRUCTION.
- WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OF INSTALLATION OR NATURE OF THE WORK REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT ANY ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN CONSENT FROM THE ENGINEER AND OWNER.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENFORCED EDITION OF THE NATIONAL ELECTRIC CODE, NATIONAL ELECTRIC SAFETY CODE, UFE SAFETY CODE AND ALL OTHER LOCAL AND STATE CODES AND REGULATIONS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE. EXTEND CONDUIT & WIRE TO INSTALLED LOCATIONS AT NO ADDITIONAL COST TO THE OWNER.
- ELECTRICAL SYSTEMS SHALL BE COMPLETE AND OPERABLE AT PROJECT COMPLETION.
- UNLESS OTHERWISE SPECIFIED OR NOTED, ALL WALL MOUNTED ELECTRICAL PANELS, ENCLOSURES, AND SIMILAR EQUIPMENT SHALL BE MOUNTED 6'-6" (MAX) FROM THE TOP OF THE PANEL TO FINISHED FLOOR OR GRADE.
- A SEPARATE EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH CIRCUIT (SEPARATE CONDUCTOR IN THE CONDUIT). THE CONDUCTOR SHALL BE TERMINATED AT THE PROPER DEVICE. TERMINAL OR LUG AT THE POWER SOURCE (MCC GROUND BUS, PANELBOARD GROUND BUS, ETC.), GROUND CONDUCTOR SIZE SHALL BE PER THE LATEST EDITION OF THE NEC.
- CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY ONLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURAL CONDITIONS EXPOSED CONDUITS SHALL BE INSTALLED PARALLEL TO BEAMS AND WALLS.
- NO CONDUIT SMALLER THAN 3/4" PIPE SIZE NOR WIRE SMALLER THAN NO. 12AWG SHALL BE USED UNLESS OTHERWISE NOTED.
- SWITCHES SHALL BE MOUNTED 4'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- ALL SURFACE MOUNTED PANELS AND PANELBOARDS ON THE INSIDE OF THE EXTERIOR WALLS ABOVE GRADE, OR IN OTHER LOCATIONS CONSIDERED AS DAMP, SHALL BE MOUNTED SO AS TO MAINTAIN A 1/4" AIR SPACE BETWEEN THE ENCLOSURE AND THE WALL.
- ALL PANELBOARDS SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE TOP CIRCUIT BREAKER OPERATING HANDLE TO THE FLOOR SHALL NOT EXCEED 6'-6".
- IN GENERAL, PULL BOXES OR JUNCTION BOXES SHALL BE PROVIDED IN ACCORDANCE WITH THE SPECIFICATIONS, NEC ABOVE GRADE, JUNCTION, PULL AND TERMINAL BOXES SHALL BE OF STAINLESS STEEL CONSTRUCTION.
- CONDUIT AND WIRE FOR SWITCHES AND/OR RECEPTACLES AND SHALL BE a. MINIMUM 3/4" CONDUIT, TYPE AS SPECIFIED. b. MINIMUM NO. 12 COPPER WIRE, TYPE AS SPECIFIED. QUANTITY OF WIRES AS REQUIRED. PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT.
- CONTRACTOR SHALL PROVIDE A LIGHTNING PROTECTION SYSTEM IN STRICT ACCORDANCE WITH SPECIFICATION 26 41 13 LIGHTNING PROTECTION FOR STRUCTURES.



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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792
DATE: JULY 2023
FILE NAME: E-01A
DESIGNED BY: N. DESHPANDE
DRAWN BY: K. SATHISH
CHECKED BY: T. POWELL

SHEET TITLE

ELECTRICAL

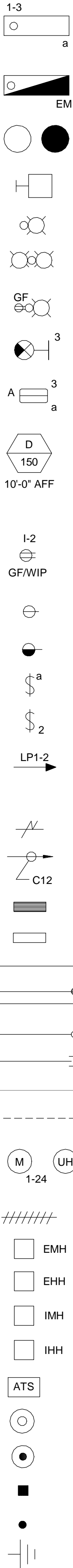
LEGEND, SYMBOLS, AND
ABBREVIATIONS - SHEET
1 OF 2

SCALE: N.T.S

E-01A

SHEET 42 OF 60

PLANS



FLUORESCENT LIGHTING FIXTURE - SURFACE OR PENDANT MOUNTED. FIRST NUMERAL DENOTES LIGHTING PANEL (LP1). SECOND NUMBER DENOTES BRANCH CIRCUIT NUMBER. LOWER CASE LETTER DENOTES SWITCHED CIRCUIT.

FLUORESCENT LIGHTING FIXTURE WITH BATTERY PACK SURFACE OR PENDANT.

PENDANT OR CEILING MOUNTED LIGHTING FIXTURE.

WALL MOUNTED LIGHTING FIXTURE.

POLE OR STANCHION MOUNTED LIGHTING FIXTURE.

TWO (2) POLE OR STANCHION MOUNTED LIGHTING FIXTURES

POLE MOUNTED FIXTURE WITH GF RECEPTACLE

WALL MOUNTED EXIT LIGHT

LED WALL PACK LIGHT FIXTURE WITH FULLCUTOFF LENS, SUITABLE FOR WET AND CORROSIVE LOCATIONS

FIXTURE DESIGNATION SYMBOL. SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND TYPE. ALL FIXTURES SHOWN IN A ROOM WITH THIS SYMBOL SHALL BE OF TYPE INDICATED BY LETTER. NUMBER IN SYMBOL INDICATES LAMP WATTAGE AND NUMBER OF NUMBER IN SYMBOL INDICATES LAMP WATTAGE AND NUMBER OF NUMBER BELOW SYMBOL INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR OR AS NOTED.

DUPLEX CONVENIENCE RECEPTACLE, 2 POLE, 3 WIRE, 120 VOLTS A.C. 20 AMP RECEPTACLE DESIGNATIONS, FIRST NUMBER DENOTES PANEL, SECOND NUMBER DENOTES CIRCUIT NUMBER. GF-DENOTES GROUND FAULT, WIP-WEATHER PROOF WHILE IN USE.

SINGLE CONVENIENCE RECEPTACLE, 2 POLE, 3 WIRE; 120 VOLTS AC. 20 AMP UNLESS NOTED OTHERWISE ON DRAWINGS.

POWER RECEPTACLE, 2 POLE, 3 WIRE 250 VOLTS A.C. 20 AMP UNLESS NOTED OTHERWISE ON DRAWINGS.

SINGLE POLE SWITCH - LOWER CASE LETTER DENOTES SWITCHING.

TWO POLE SWITCH

BRANCH CIRCUIT HOME RUN TO PANELBOARD LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER. AS A MINIMUM, ALL WIRING SHALL BE 3#12 AWG IN 3/4" CONDUIT. #10 AWG WIRE SHALL BE USED FOR RUNS BETWEEN PANEL AND FIRST LIGHTING FIXTURE OR RECEPTACLE EXCEEDING 50 FEET, UNLESS OTHERWISE NOTED ON DRAWING.

INDICATES GROUND CONDUCTOR

INDICATES HOMERUN AND CONDUIT TAG

LIGHTING, APPLIANCE OR INSTRUMENT PANELBOARD

POWER PANELBOARD

INDICATES NEW EQUIPMENT/EXPOSED CONDUIT

CONDUIT TURNING DOWN

CONDUIT TURNING UP

CONDUIT CAPPED

INDICATES EXISTING EQUIPMENT/CONDUIT

INDICATES CONDUIT UNDERGROUND OR CONCEALED IN CEILING, WALLS, BELOW OR IN FLOOR SLAB

MOTOR, UNIT HEATER-NUMERAL DENOTES LIGHTING PANEL AND BRANCH CIRCUIT NUMBER. MOTOR SYMBOL SHOWN DASHED DENOTES EQUIPMENT LOCATED ON ROOF.

DEMOLITION

ELECTRICAL MANHOLE

ELECTRICAL HANDHOLE

INSTRUMENTATION MANHOLE

INSTRUMENTATION HANDHOLE

AUTOMATIC TRANSFER SWITCH

GROUND TEST POINT

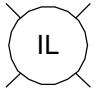
GROUND ROD

EXOTHERMIC WELDED GROUND CONNECTION

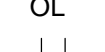
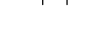
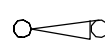
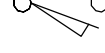
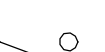
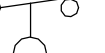
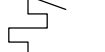
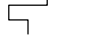
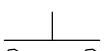
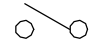
BOLTED GROUND CONNECTION

GROUND

PC



PT



#4/0 GROUND CABLE BURIED 2'-6" BELOW GRADE UNLESS OTHERWISE NOTED

CLASS I COPPER LIGHTNING CONDUCTOR UNLESS OTHERWISE NOTED

PHOTOCELL

INDICATING LIGHT, PT-DENOTES PUSH TO TEST TYPE LETTER INDICATES LENS COLOR

W-WHITE G-GREEN A-AMBER
R-RED B-BLUE C-CLEAR

SWITCH - TOGGLE OPEN

MOMENTARY CONTACT PUSH BUTTON NORMALLY OPEN

MOMENTARY CONTACT PUSH BUTTON NORMALLY CLOSED

SWITCH - TEMPERATURE NORMALLY CLOSED. OPENS ON RISING TEMPERATURE

SWITCH - TEMPERATURE NORMALLY OPEN. CLOSSES ON RISING TEMPERATURE

SWITCH - PRESSURE NORMALLY CLOSED. OPENS ON RISING PRESSURE

SWITCH - PRESSURE NORMALLY OPEN. CLOSSES ON RISING PRESSURE

VALVE LIMIT SWITCH (OPEN)

VALVE LIMIT SWITCH (CLOSED)

SWITCH - LIMIT NORMALLY OPEN.

SWITCH - LIMIT NORMALLY CLOSED.

NORMALLY OPEN CONTACT, NUMBER INDICATES RELAY.

NORMALLY CLOSED CONTACT

THERMALLY ACTUATED MOTOR OVERLOAD RELAY, LATCHES CLOSED ON OVERLOAD

THERMALLY ACTUATED MOTOR OVERLOAD RELAY, LATCHES OPEN ON OVERLOAD

SOLENOID VALVE

MOTOR STARTER CONTACTOR COIL COIL DESIGNATION: M-COIL

MOTOR STARTER CONTACTOR COIL COIL DESIGNATION: R-RUN

CONTROL RELAY COIL DESIGNATION: CR-CONTROL RELAY MX-AUXILIARY RELAY TR-TIMING RELAY AR-ALARM RELAY RR-READY RELAY

SELECTOR SWITCH, 2 POSITION MAINTAINED CONTACT

(O,X) DENOTES CONTACT BLOCK CONFIGURATION X INDICATES CONTACT CLOSED, O DENOTES CONTACT OPEN.

SELECTOR SWITCH, 3 POSITION MAINTAINED CONTACT

ELECTRIC SPACE HEATER ELEMENT

ELAPSED TIME METER

ABBREVIATIONS

A	AMPERE	MCC	MOTOR CONTROL CENTER
AI	ANALOG INPUT	MTS	MANUAL TRANSFER SWITCH
AO	ANALOG OUTPUT	MCP	MOTOR CIRCUIT PROTECTOR
AC	ALTERNATING CURRENT	MFR	MANUFACTURER
AFC	ABOVE FINISHED CONCRETE		
AFF	ABOVE FINISHED FLOOR	MOV	MOTOR OPERATED VALVE
AFG	ABOVE FINISHED GRADE	MTG	MOUNTING
AG	ABOVE GRADE	MH	MANHOLE
AL	ALUMINUM		
ATC	AUTOMATIC TEMPERATURE CONTROL	N/A	NON-APPLICABLE
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED
AUX	AUXILIARY	NO	NORMALLY OPENED
AUTO	AUTOMATIC	NTS	NOT TO SCALE
AWG	AMERICAN WIRE GAUGE		
		OL	OVERLOAD
BD	BOARD	OS	OCCUPANCY SENSOR
BKR	BREAKER		
BLDG	BUILDING	PB	PUSH BUTTON
BV	BUTTERFLY VALVE	PFC	POWER FACTOR CORRECTION
		PNL	PANEL
C	CONDUIT	PR	PAIR
CBV	CABLE BY VENDOR	PT	POTENTIAL TRANSFORMER
CB	CIRCUIT BREAKER	PTZ	PAN-TILT-ZOOM
CKT	CIRCUIT		
CLG	CEILING	REC	RECEPTACLE
CTRL	CONTROL	REQ	REQUIRED
CP	CONTROL PANEL	RGS	RIGID GALVANIZED STEEL
CPT	CONTROL POWER TRANSFORMER	RVSS	REDUCED VOLTAGE SOFT START
CT	CURRENT TRANSFORMER		
CU	COPPER	SP	SPARE
		SS	STAINLESS STEEL
DI	DISCRETE INPUT	SPD	SURGE PROTECTION DEVICE
DO	DISCRETE OUTPUT	SPDT	SINGLE POLE DOUBLE THROW
DB	DECIBELS	SPST	SINGLE POLE SINGLE THROW
DC	DIRECT CURRENT	SV	SOLENOID VALVE
DCS	DISTRIBUTED CONTROL SYSTEM	SW	SWITCH
DISC	DISCONNECT	SWBD	SWITCHBOARD
DN	DOWN	SWGR	SWITCHGEAR
DPDT	DOUBLE POLE DOUBLE THROW		
DP	DISTRIBUTION PANEL	TB	TERMINAL BOX
DS	DISCONNECT SWITCH	TDR	TIME DELAY RELAY
DWG	DRAWING	TEMP	TEMPERATURE
EC	EMPTY CONDUIT	TEW	THERMOCOUPLE EXTENSION WIRE
EL	ELEVATION	TSP	TWISTED SHIELDED PAIR
EMH	ELECTRICAL MANHOLE	TYP	TYPICAL
EMT	ELECTRICAL METALLIC TUBING		
EO	ELECTRICALLY OPERATED	UG	UNDERGROUND
EX	EXISTING	UON	UNLESS OTHERWISE NOTED
		UPS	UNINTERRUPTIBLE POWER SUPPLY
FUT	FUTURE	V	VOLTS
FVNR	FULL VOLTAGE NON-REVERSING	VAC	VOLTS ALTERNATING CURRENT
		VDC	VOLTS DIRECT CURRENT
GALV	GALVANIZED	VFD	VARIABLE FREQUENCY DRIVE
GFI	GROUND FAULT INTERRUPTER		
G, GND	GROUND	W	WATTS
		W/O	WITHOUT
HOA	HAND-OFF-AUTO	WP	WEATHERPROOF
HTR	HEATER		
		XFMR	TRANSFORMER
IMT	INTERMEDIATE METALLIC TUBING	XP	EXPLOSION PROOF
ITB	INSTRUMENT TERMINAL BOX		
		1PH	SINGLE PHASE
JB, J	JUNCTION BOX	3PH	THREE PHASE
		3W	THREE WIRE
KAIC	THOUSAND AMPERE INTERRUPTING CURRENT	4W	FOUR WIRE
KCMIL	THOUSAND CIRCULAR MILS		
KVA	KILOVOLT-AMPERES		
KW	KILOWATTS		
KWH	KILOWATT-HOURS		
		LA	LIGHTNING ARRESTOR
LCP	LOCAL CONTROL PANEL		
LTG	LIGHTING		
LV	LOW VOLTAGE		



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FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER
SYSTEM



FCWS-TRILITH STUDIOS
ELEVATED WATER
STORAGE TANK

400 VETERANS PARKWAY,
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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: E-01B

DESIGNED BY: N. DESHPANDE

DRAWN BY: K. SATHISH

CHECKED BY: T. POWELL

SHEET TITLE

ELECTRICAL

LEGEND, SYMBOLS, AND
ABBREVIATIONS - SHEET
2 OF 2

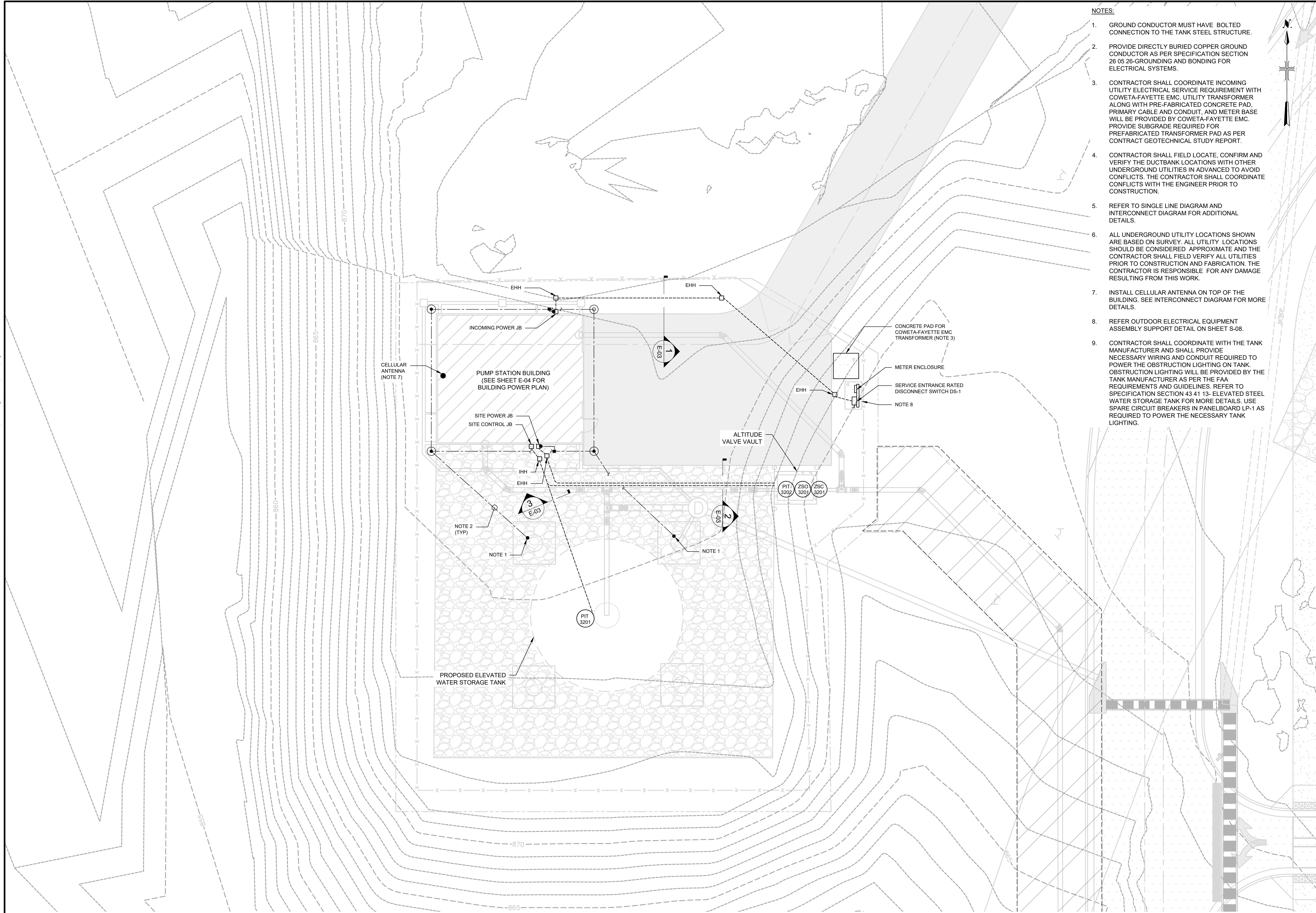
SCALE:

N.T.S

E-01B

SHEET 43 OF 60

User: BMB3016 Spec: AUS-NCSCMOD File: C:\USERS\BMB3016\Documents\ARCADIS\AUS-30135792-TRILITH STUDIOS ELEVATED STORAGE TANK\PROJECT FILES\01 - WIPELECIE-02.DWG Scale: 1:1 Saved Date: 7/7/2023 Time: 12:53 Plot Date: 8/1/2023 Layout: E-02



- NOTES:
- GROUND CONDUCTOR MUST HAVE BOLTED CONNECTION TO THE TANK STEEL STRUCTURE.
 - PROVIDE DIRECTLY BURIED COPPER GROUND CONDUCTOR AS PER SPECIFICATION SECTION 26 05 26-GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS.
 - CONTRACTOR SHALL COORDINATE INCOMING UTILITY ELECTRICAL SERVICE REQUIREMENT WITH COWETA-FAYETTE EMC. UTILITY TRANSFORMER ALONG WITH PRE-FABRICATED CONCRETE PAD, PRIMARY CABLE AND CONDUIT, AND METER BASE WILL BE PROVIDED BY COWETA-FAYETTE EMC. PROVIDE SUBGRADE REQUIRED FOR PREFABRICATED TRANSFORMER PAD AS PER CONTRACT GEOTECHNICAL STUDY REPORT.
 - CONTRACTOR SHALL FIELD LOCATE, CONFIRM AND VERIFY THE DUCTBANK LOCATIONS WITH OTHER UNDERGROUND UTILITIES IN ADVANCED TO AVOID CONFLICTS. THE CONTRACTOR SHALL COORDINATE CONFLICTS WITH THE ENGINEER PRIOR TO CONSTRUCTION.
 - REFER TO SINGLE LINE DIAGRAM AND INTERCONNECT DIAGRAM FOR ADDITIONAL DETAILS.
 - ALL UNDERGROUND UTILITY LOCATIONS SHOWN ARE BASED ON SURVEY. ALL UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE AND THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION AND FABRICATION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THIS WORK.
 - INSTALL CELLULAR ANTENNA ON TOP OF THE BUILDING. SEE INTERCONNECT DIAGRAM FOR MORE DETAILS.
 - REFER OUTDOOR ELECTRICAL EQUIPMENT ASSEMBLY SUPPORT DETAIL ON SHEET S-08.
 - CONTRACTOR SHALL COORDINATE WITH THE TANK MANUFACTURER AND SHALL PROVIDE NECESSARY WIRING AND CONDUIT REQUIRED TO POWER THE OBSTRUCTION LIGHTING ON TANK. OBSTRUCTION LIGHTING WILL BE PROVIDED BY THE TANK MANUFACTURER AS PER THE FAA REQUIREMENTS AND GUIDELINES. REFER TO SPECIFICATION SECTION 43 41 13- ELEVATED STEEL WATER STORAGE TANK FOR MORE DETAILS. USE SPARE CIRCUIT BREAKERS IN PANELBOARD LP-1 AS REQUIRED TO POWER THE NECESSARY TANK LIGHTING.

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FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER SYSTEM

FCWS-TRILITH STUDIOS
ELEVATED WATER STORAGE TANK

400 VETERANS PARKWAY,
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DATE: JULY 2023

FILE NAME: E-02

DESIGNED BY: N. DESHPANDE

DRAWN BY: K. SATHISH

CHECKED BY: T. POWELL

SHEET TITLE

ELECTRICAL

ELECTRICAL SITE PLAN

SCALE:

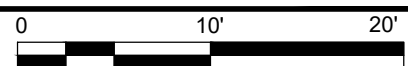
1" = 10'

E-02

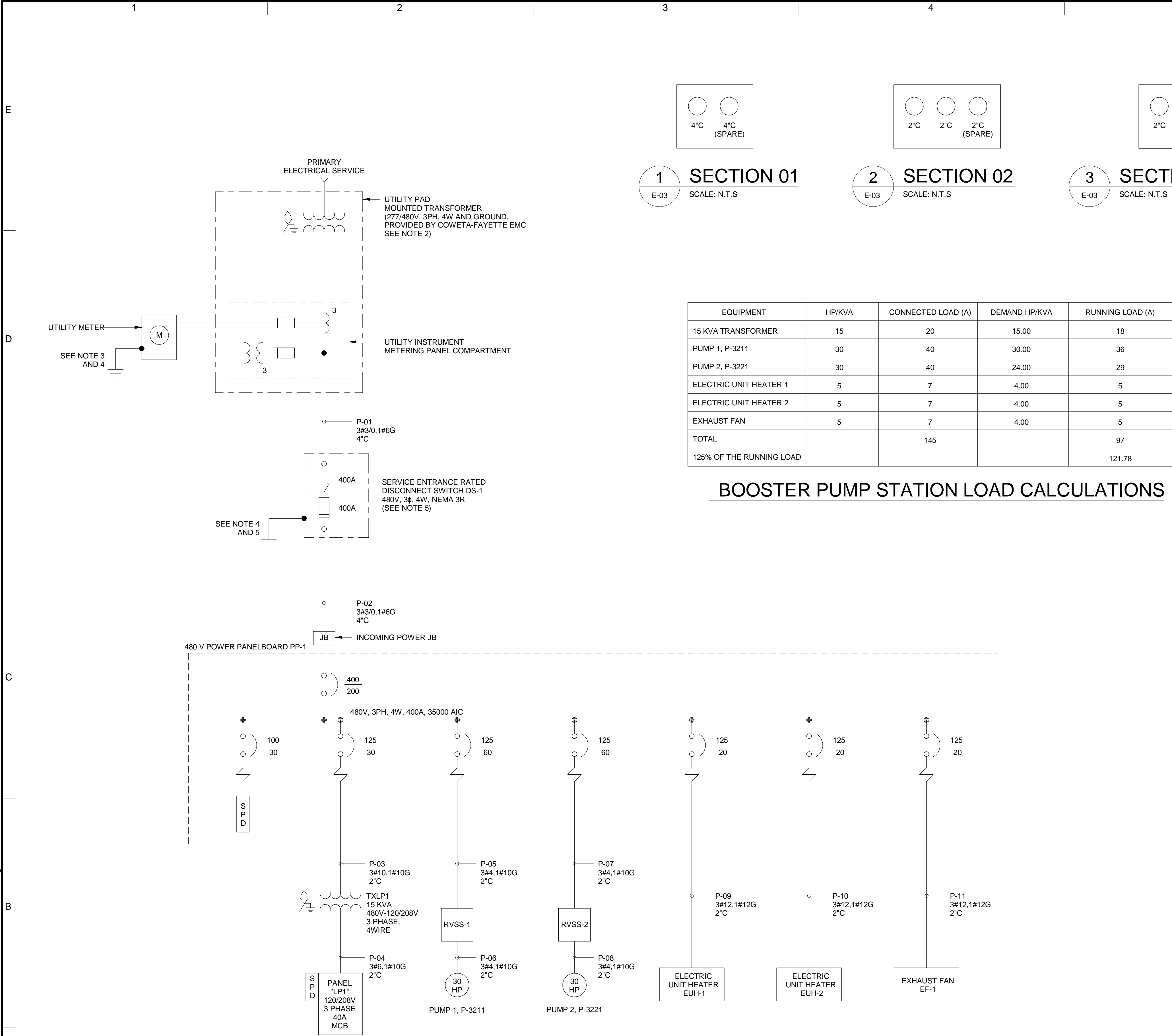
SHEET 44 OF 60

ELECTRICAL SITE PLAN

SCALE: 1"=10'

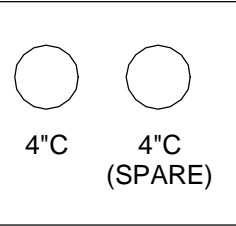


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ONE-LINE DIAGRAM

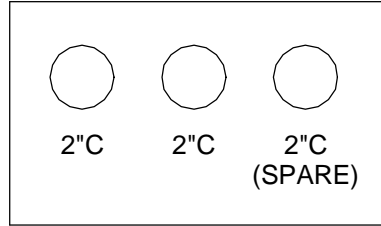
NOT TO SCALE



1 SECTION 01

E-03

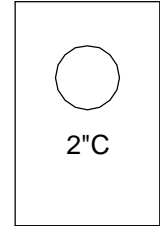
SCALE: N.T.S



2 SECTION 02

E-03

SCALE: N.T.S



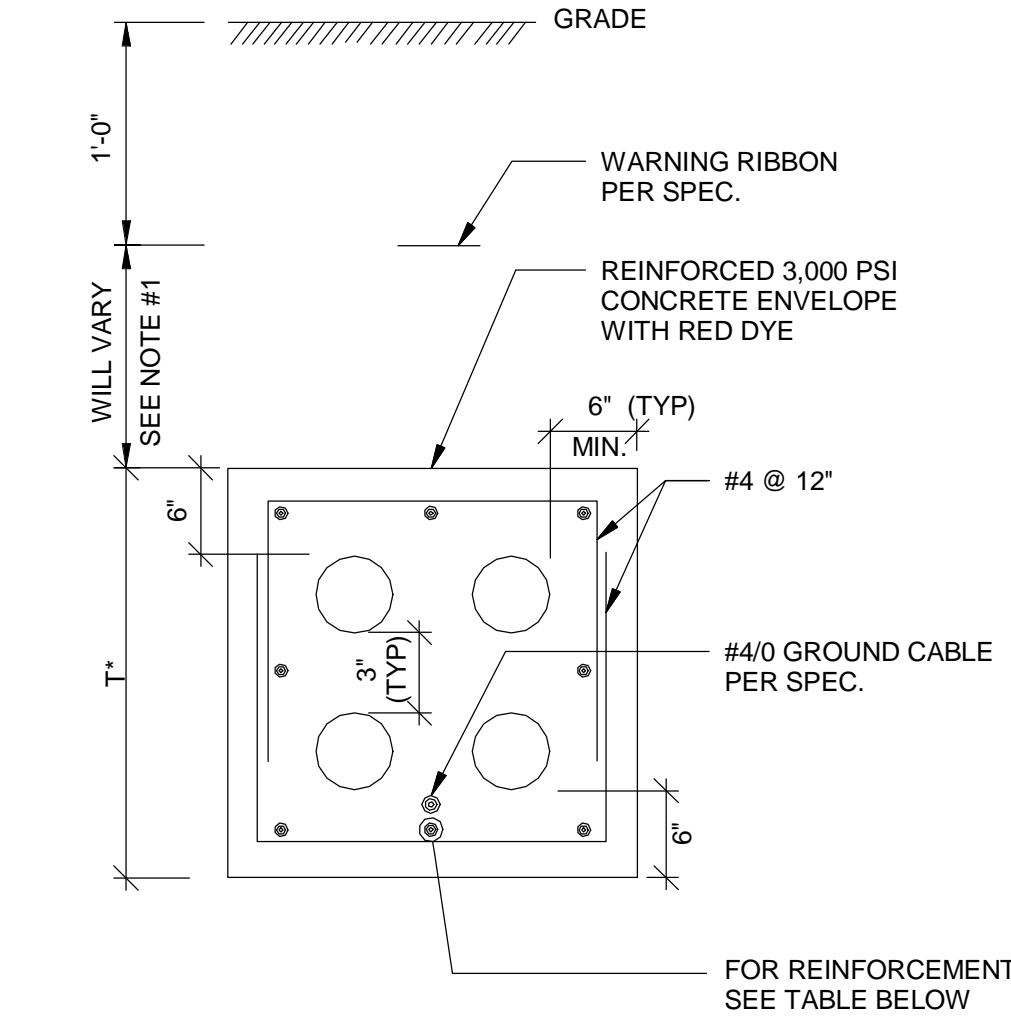
3 SECTION 03

E-03

SCALE: N.T.S

EQUIPMENT	HP/KVA	CONNECTED LOAD (A)	DEMAND HP/KVA	RUNNING LOAD (A)
15 KVA TRANSFORMER	15	20	15.00	18
PUMP 1, P-3211	30	40	30.00	36
PUMP 2, P-3221	30	40	24.00	29
ELECTRIC UNIT HEATER 1	5	7	4.00	5
ELECTRIC UNIT HEATER 2	5	7	4.00	5
EXHAUST FAN	5	7	4.00	5
TOTAL		145		97
125% OF THE RUNNING LOAD				121.78

BOOSTER PUMP STATION LOAD CALCULATIONS



REINFORCEMENT TABLE		
DUCT BANK THICKNESS SEE NOTE #2	UNDER ROADWAY*	AT NON-TRAFFIC AREA
T < 18"	#8 @ 12" (MIN) ALL AROUND	#6 @12" ALL AROUND
T > 18"	#7 @ 12" (MIN) ALL AROUND	#5 @12" ALL AROUND

1 TYPICAL DUCT BANK SECTION DETAIL

E-03

NOT TO SCALE

NOTES:

- DUCT BANK DIMENSION (1'-0" MINIMUM) VARIES TO CLEAR OTHER UNDERGROUND SYSTEMS AND TO MAINTAIN SLOPE AS REQUIRED.
- DUCT BANK DEPTH AND WIDTH VARIES, REFER TO PLAN DRAWINGS FOR SIZES.

NOTES:

- NO UNDERGROUND CONCRETE ENCASED CONDUIT SMALLER THAN 2" PIPE SIZE SHALL BE USING UNLESS OTHERWISE NOTED.
- FOLLOWING ASSUMPTIONS HAVE BEEN CONSIDERED FOR UTILITY TRANSFORMER :
TRANSFORMER KVA- 500
MINIMUM %Z- 2.80
X/R RATIO- 3.5
AVAILABLE FAULT CURRENT- 21,480A
ELECTRICAL EQUIPMENT SPECIFIED UNDER THIS PROJECT IS RATED FOR KILO-AMPERE INTERRUPTING CAPACITY OF 35 KAIC, HENCE MEETS THE INTERRUPTING AND WITHSTAND RATING REQUIREMNT TO HANDLE AVAILABLE FAULT CURRENT IN CASE OF A FAULT CONDITION.
- CONTRACTOR TO COORDINATE AND PROVIDE METER SOCKET PER THE REQUIREMENTS OF COWETA-FAYETTE EMC. PROVIDE CONNECTION FROM THE METER ENCLOSURE TO THE GROUNDING ELECTRODE SYSTEM.
- BOND THE GROUNDING ELECTRODE CONDUCTOR TO AN ACCEPTABLE GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH NEC SECTION 250. THIS MAY INCLUDE A CONCRETE ENCASED ELECTRODE OR A GROUND ROD. THE SYSTEM SHALL BE CONNECTED TO THE GROUND RING AS SHOWN ON SHEET E-02 AND E-04. PROVIDE A SUPPLEMENTAL GROUND ROD IF THE RESISTANCE TO EARTH EXCEEDS 5 OHMS.
- PROVIDE 600V, DUAL ELEMENT, TIME DELAY, 200KAIC, CLASS RK5 TYPE FUSES (SIZE AS SHOWN).



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FCWS-TRILITH STUDIOS
ELEVATED WATER
STORAGE TANK

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PROJECT NO.:	30135792
DATE:	JULY 2023
FILE NAME:	E-03
DESIGNED BY:	N. DESHPANDE
DRAWN BY:	BM. BHAVITHRAJ
CHECKED BY:	T. POWELL

SHEET TITLE

ELECTRICAL

ONE LINE DIAGRAM

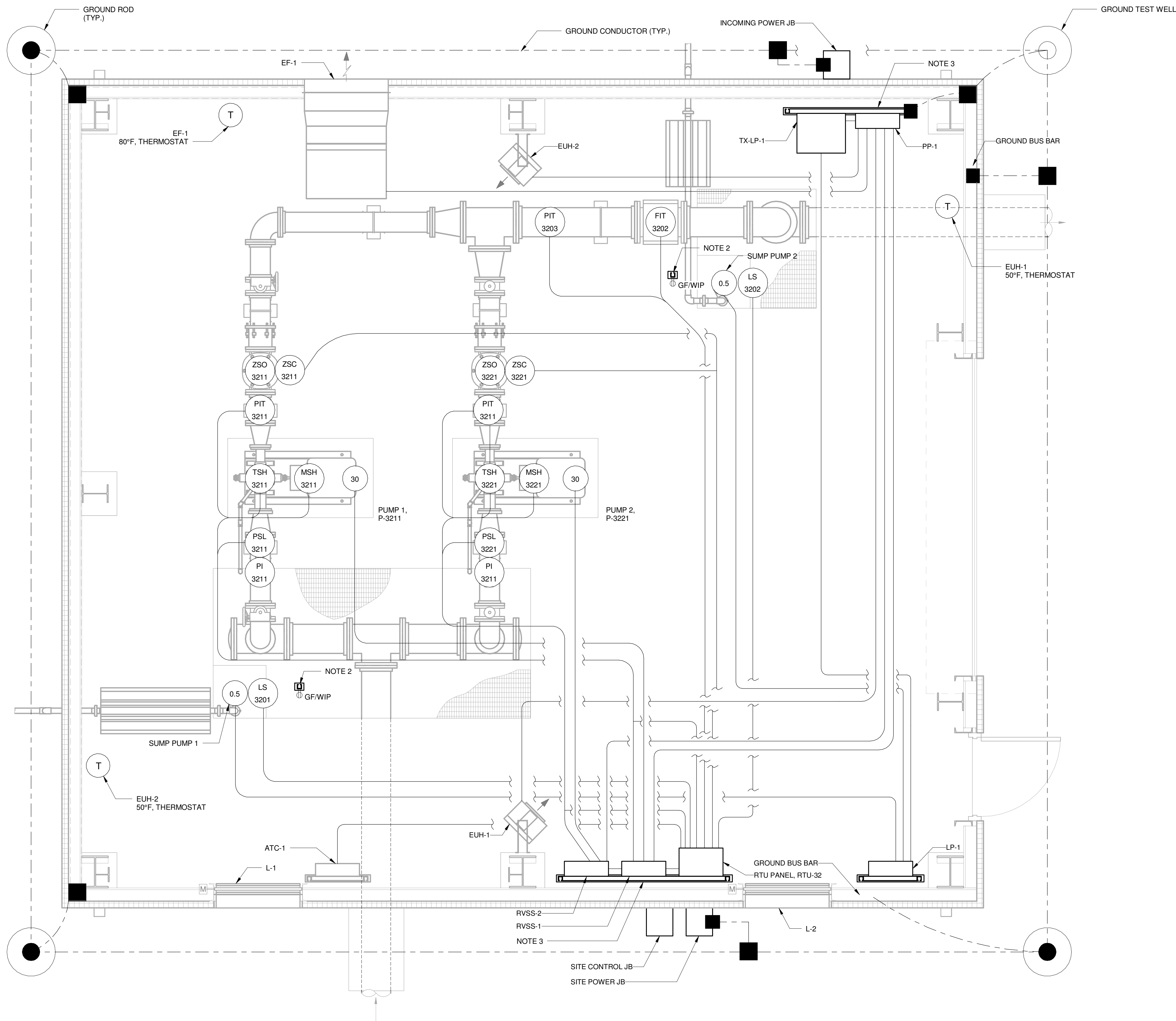
SCALE:

N.T.S

E-03

SHEET 45 OF 60

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- NOTES:
1. CONDUIT ROUTING SHOWN IS FOR DIAGRAMMATIC REPRESENTATION ONLY. CONTRACTOR SHALL FIELD LOCATE AND VERIFY BEFORE WIRING.
 2. PROVIDE SIMPLEX WEATHER PROOF WHILE IN USE CONVENIENCE RECEPTACLE WITH GROUND FAULT PROTECTION. 2 POLE, 3 WIRE, 120 VAC, 20 AMP. THIS RECEPTACLE SHALL BE MOUNTED ON A 18 INCH VERTICAL UNISTRUT SUPPORT.
 3. REFER INDOOR ELECTRICAL EQUIPMENT ASSEMBLY SUPPORT DETAIL ON SHEET E-09A.
 4. REFER TO ONE LINE DIAGRAM AND INTERCONNECT DIAGRAM FOR MORE DETAILS.



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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: E-04

DESIGNED BY: N. DESHPANDE

DRAWN BY: K. SATHISH

CHECKED BY: T. POWELL

SHEET TITLE

ELECTRICAL

BOOSTER PUMP
STATION POWER AND
GROUNDING PLAN

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

E-04

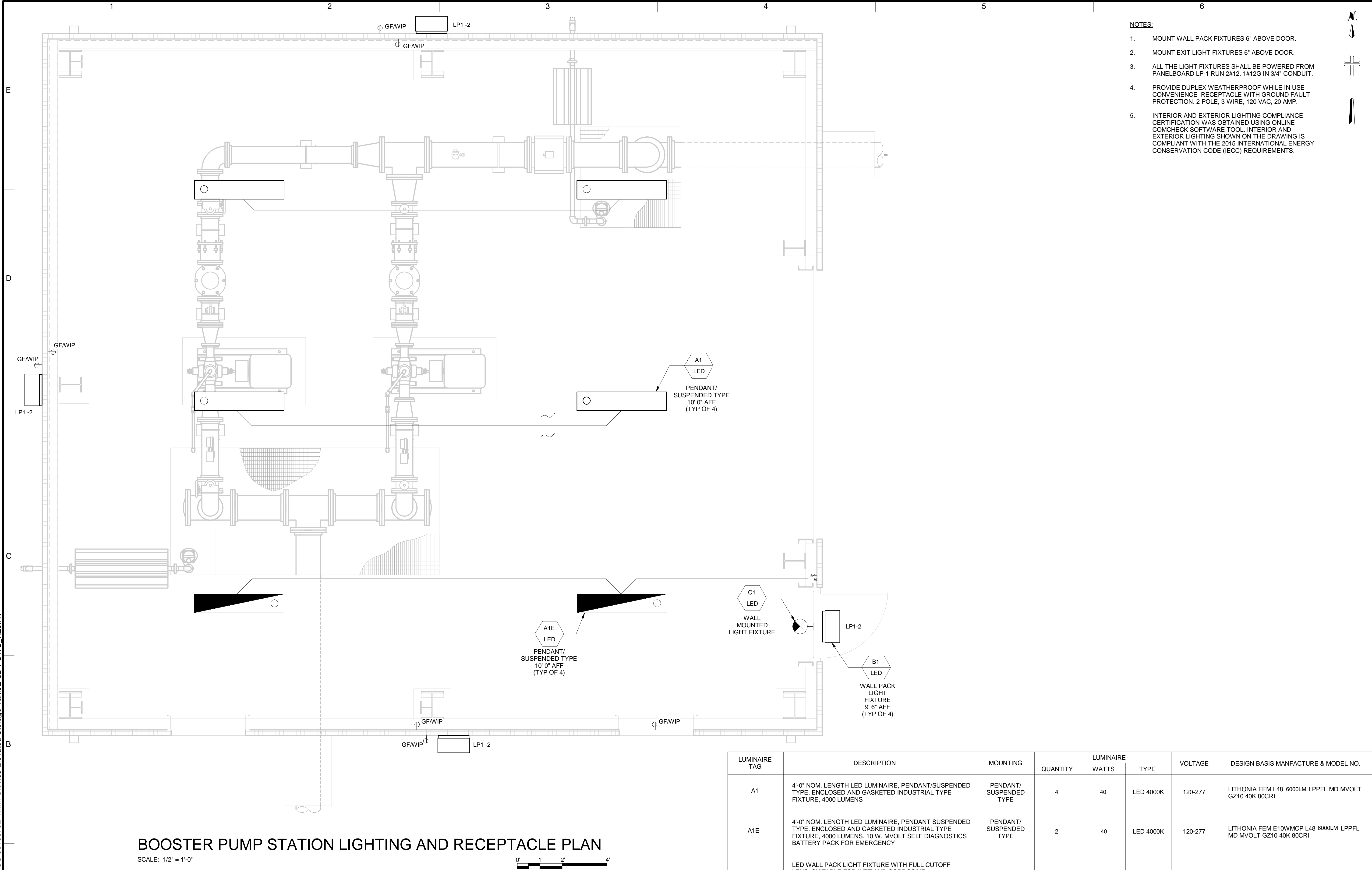
SHEET 46 OF 60

BOOSTER PUMP STATION POWER AND GROUNDING PLAN

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

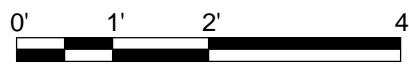
0' 1' 2' 4'

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BOOSTER PUMP STATION LIGHTING AND RECEPTACLE PLAN

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



NOTES:

- MOUNT WALL PACK FIXTURES 6" ABOVE DOOR.
- MOUNT EXIT LIGHT FIXTURES 6" ABOVE DOOR.
- ALL THE LIGHT FIXTURES SHALL BE POWERED FROM PANELBOARD LP-1 RUN 2#12, 1#12G IN 3/4" CONDUIT.
- PROVIDE DUPLEX WEATHERPROOF WHILE IN USE CONVENIENCE RECEPTACLE WITH GROUND FAULT PROTECTION. 2 POLE, 3 WIRE, 120 VAC, 20 AMP.
- INTERIOR AND EXTERIOR LIGHTING COMPLIANCE CERTIFICATION WAS OBTAINED USING ONLINE COMCHECK SOFTWARE TOOL. INTERIOR AND EXTERIOR LIGHTING SHOWN ON THE DRAWING IS COMPLIANT WITH THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) REQUIREMENTS.



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STORAGE TANK

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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: E-05

DESIGNED BY: N. DESHPANDE

DRAWN BY: K. SATHISH

CHECKED BY: T. POWELL

SHEET TITLE

ELECTRICAL

BOOSTER PUMP
STATION LIGHTING AND
RECEPTACLE PLAN

SCALE: AS INDICATED

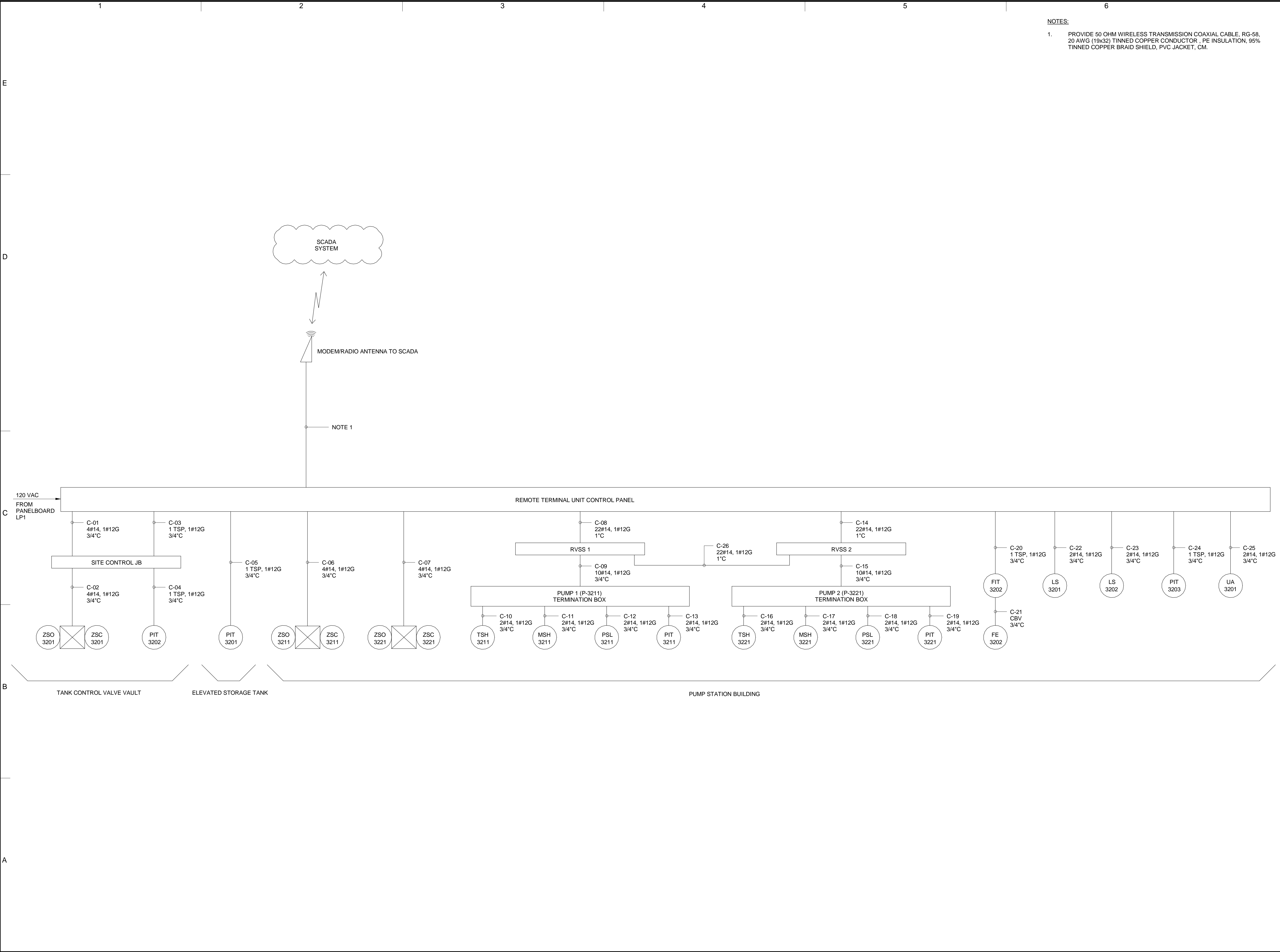
E-05

SHEET 47 OF 60

LUMINAIRE TAG	DESCRIPTION	MOUNTING	LUMINAIRE			VOLTAGE	DESIGN BASIS MANUFACTURE & MODEL NO.
			QUANTITY	WATTS	TYPE		
A1	4'-0" NOM. LENGTH LED LUMINAIRE, PENDANT/SUSPENDED TYPE, ENCLOSED AND GASKETED INDUSTRIAL TYPE FIXTURE, 4000 LUMENS	PENDANT/ SUSPENDED TYPE	4	40	LED 4000K	120-277	LITHONIA FEM L48 6000LM LPPFL MD MVOLT GZ10 40K 80CRI
A1E	4'-0" NOM. LENGTH LED LUMINAIRE, PENDANT SUSPENDED TYPE, ENCLOSED AND GASKETED INDUSTRIAL TYPE FIXTURE, 4000 LUMENS, 10 W, MVOLT SELF DIAGNOSTICS BATTERY PACK FOR EMERGENCY	PENDANT/ SUSPENDED TYPE	2	40	LED 4000K	120-277	LITHONIA FEM E10W/MCP L48 6000LM LPPFL MD MVOLT GZ10 40K 80CRI
B1	LED WALL PACK LIGHT FIXTURE WITH FULL CUTOFF LENS, SUITABLE FOR WET AND CORROSIVE LOCATIONS, IP66 RATED, DIE-CAST ALUMINUM HOUSING WITH IMPACT-RESISTANT GLASS LENS, CORROSION RESISTANT PAINTED FINISH. FIXTURE SHALL HAVE INTEGRAL SURGE PROTECTION, DRIVER AND INTEGRAL PHOTOCELL OPERATE AT 120V AND ARE FULLY ENCLOSED IN THE UPPER HOUSING.	WALL	4	30	LED 4000K	120-277	LITHONIA HLWPC2, OR APPROVED EQUAL
C1	LED EXIT SIGN, SUITABLE FOR WET AND CORROSIVE LOCATIONS, PLASTIC (POLYCARBONATE CONSTRUCTION) HOUSING WITH IMPACT-RESISTANT GLASS LENS, CORROSION RESISTANT PAINTED FINISHED OPTIONS: NICKEL, CADMIUM BATTERY BACKUP PROVIDING MINIMUM OF 90 MINUTES EMERGENCY ILLUMINATION, PROVIDE INTEGRAL SELF-DIAGNOSTIC TESTING, PROVIDE NUMBER OF FACES AS SHOWN ON DRAWINGS AND RED LETTERING.	WALL	1	N/A	N/A	120-277	LITHONIA HLWPC2, OR APPROVED EQUAL

LUMINAIRE SCHEDULE

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NOTES:
1. PROVIDE 50 OHM WIRELESS TRANSMISSION COAXIAL CABLE, RG-58, 20 AWG (19x32) TINNED COPPER CONDUCTOR, PE INSULATION, 95% TINNED COPPER BRAID SHIELD, PVC JACKET, CM.

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PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: E-06

DESIGNED BY: N. DESHPANDE

DRAWN BY: K. SATHISH

CHECKED BY: T. POWELL

SHEET TITLE

ELECTRICAL

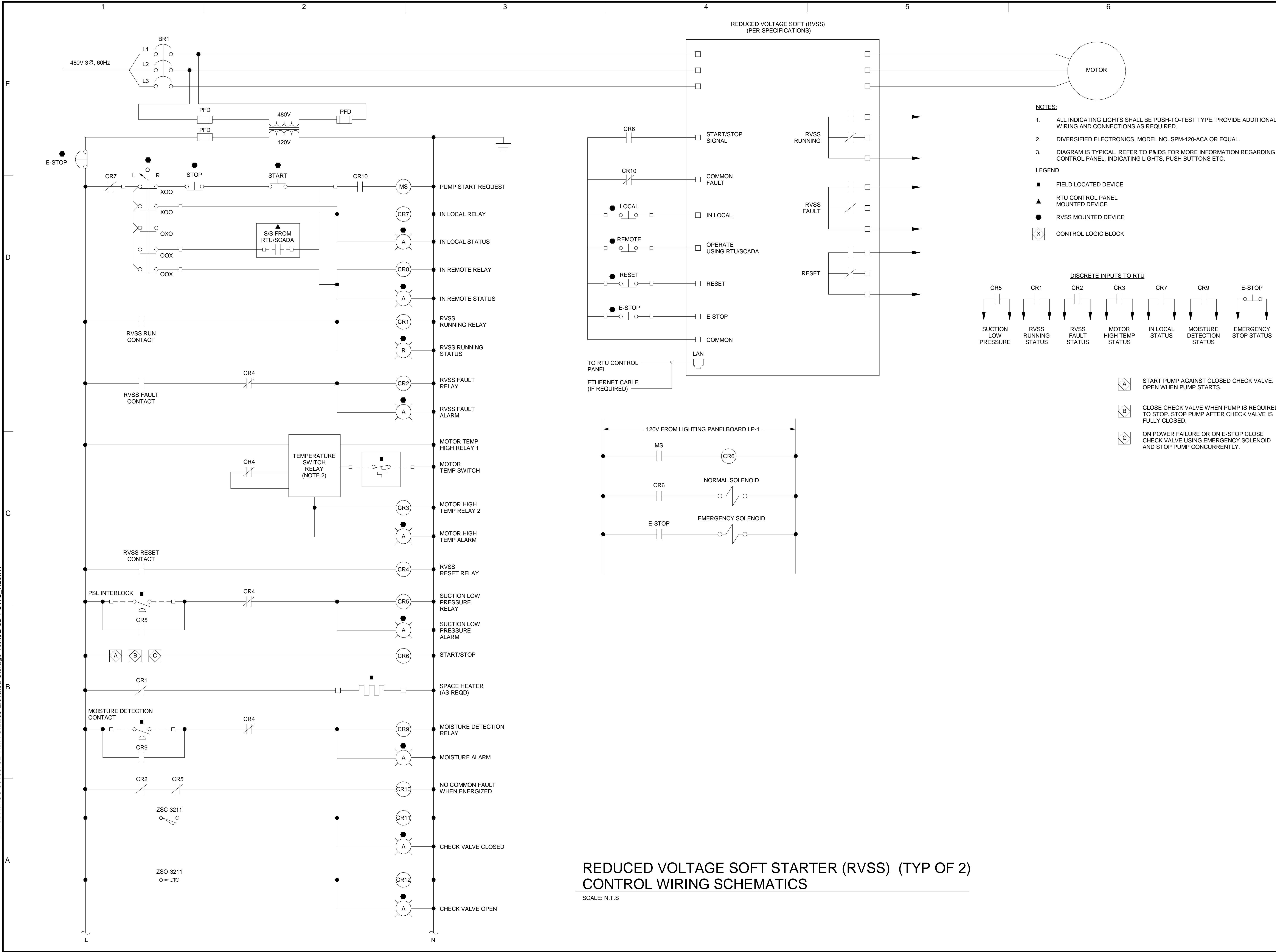
INTERCONNECT WIRING
DIAGRAM

SCALE: N.T.S

E-06

SHEET 48 OF 60

7/7/2023 3:26:47 PM BIM 360://AUS-30135792-Trilith Studios Elevated Storage Tank/E-3D-FCWS_R20.rvt



REDUCED VOLTAGE SOFT STARTER (RVSS) (TYP OF 2) CONTROL WIRING SCHEMATICS

SCALE: N.T.S



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DATE: JULY 2023

FILE NAME: E-07

DESIGNED BY: N. DESHPANDE

DRAWN BY: BM. BHAVITHRAJ

CHECKED BY: T. POWELL

SHEET TITLE

ELECTRICAL

RVSS CONTROL
SCHEMATIC

SCALE:
N.T.S

E-07

SHEET 49 OF 60

BIM 360://AUS-30135792-Trilith Studios Elevated Storage Tank/E-3D-FCWS_R20.rvt 7/7/2023 3:27:15 PM

E

D

C

B

A

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD KVA	AMPS	POLES	KVA PER PHASE			POLES	AMPS	LOAD KVA	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
						A	B	C						
1	20	BUILDING INTERIOR LIGHTING	1	8.3	1	1.5			1	4.2	0.5	BUILDING EXTERIOR LIGHTING	20	2
3	20	BUILDING INDOOR RECEPTACLES	1	8.3	1		1.2		1	1.7	0.2	SWING CHECK VALVE-01 SOLENOIDS	20	4
5	20	RTU CONTROL PANEL	1	8.3	1			1.2	1	1.7	0.2	SWING CHECK VALVE-02 SOLENOIDS	20	6
7	20	FLOWMETER	0.1	0.8	1	0.3			1	1.7	0.2	SOLENOID ACTUATED VALVE	20	8
9	20	SUMP PUMP 1	0.5	4.2	1		1.5		1	8.3	1	BUILDING EXTERIOR RECEPTACLES	20	10
11	20	HVAC ATC PANEL	0.5	4.2	1			1.0	1	4.2	0.5	SUMP PUMP 2	20	12
13	20	SPARE			1	0.0			1			SPARE	20	14
15	20	SPARE			1		0.0		1			SPARE	20	16
17	20	SPARE			1			0.0	1			SPARE	20	18
PANEL LP-1 LOCATION TRIULITH BOOSTER PUMP STATION BUILDING PUMP STATION BUILDING NOTES:			TOTAL KVA			1.8	2.7	2.2	SERVICE CHARACTERISTICS					
			GRAND CONNECTED TOTAL KVA			6.7			VOLTS: 208Y/120			A MLO		
									PHASE: 3			40		
									WIRE: 4			A MCB		
									35k MIN AIC SYMM, FULLY RATED ASSEMBLY					

PANEL SCHEDULE LP1

NOT TO SCALE

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD KVA	AMPS	POLES	KVA PER PHASE			POLES	AMPS	LOAD KVA	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
						A	B	C						
1	40	PUMP 1, P-3211	18	21.7	3	12.0			3	21.7	18	PUMP 2, P-3221	40	2
							12.0							
								12.0						
7	20	ELECTRIC UNIT HEATER, EUH-1	5	6.0	3	2.0			3	1.2	1	EXHAUST FAN, EF-1	20	8
							2.0							
								2.0						
13	20	ELECTRIC UNIT HEATER, EUH-2	5	6.0	3	6.7			3	18.0	15	15 KVA TRANSFORMER, TXLP1	30	14
							6.7							
								6.7						
19	40	SPARE			3	0.0			3			SPARE	20	20
							0.0							
								0.0						
25	40	SPARE			3	0.0			3			SPARE	40	26
							0.0							
								0.0						
31	40	SPARE			3	0.0			3			SPARE	40	32
							0.0							
								0.0						
37	20	SPARE			3	0.0			3			SPARE	20	38
							0.0							
								0.0						
PANEL PP-1 LOCATION TRILITH BOOSTER PUMP STATION BUILDING PUMP STATION BUILDING NOTES:			TOTAL KVA			20.7	20.7	20.7	SERVICE CHARACTERISTICS VOLTS: 480Y/277 PHASE: 3 WIRE: 4 35k MIN AIC SYMM, FULLY RATED ASSEMBLY					
			GRAND CONNECTED TOTAL KVA			62.0								
<div>A MLO</div> <div>200A MCB</div>														

PANEL SCHEDULE PP1

NOT TO SCALE



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SEALS

ISSUE FOR BID

FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER
SYSTEM



FCWS-TRILITH STUDIOS
ELEVATED WATER
STORAGE TANK

400 VETERANS PARKWAY,
FAYETTEVILLE, GA 30214,
UNITED STATES

REVISIONS

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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: E-08

DESIGNED BY: N. DESHPANDE

DRAWN BY: K. SATHISH

CHECKED BY: T. POWELL

SHEET TITLE

ELECTRICAL

PANELBOARD
SCHEDULE

SCALE: N.T.S

E-08

SHEET 50 OF 60

FINISHED GRADE

WATERTIGHT BOX COVER

2'-0" MIN.

24"x24"x24" CAST IRON WATERTIGHT (NEMA 4X) BOX WITH COVER. OZ/GEDNEY TYPE YF OR EQUAL.

CADWELD CABLE-TO-ROD CONNECTOR (TYP)

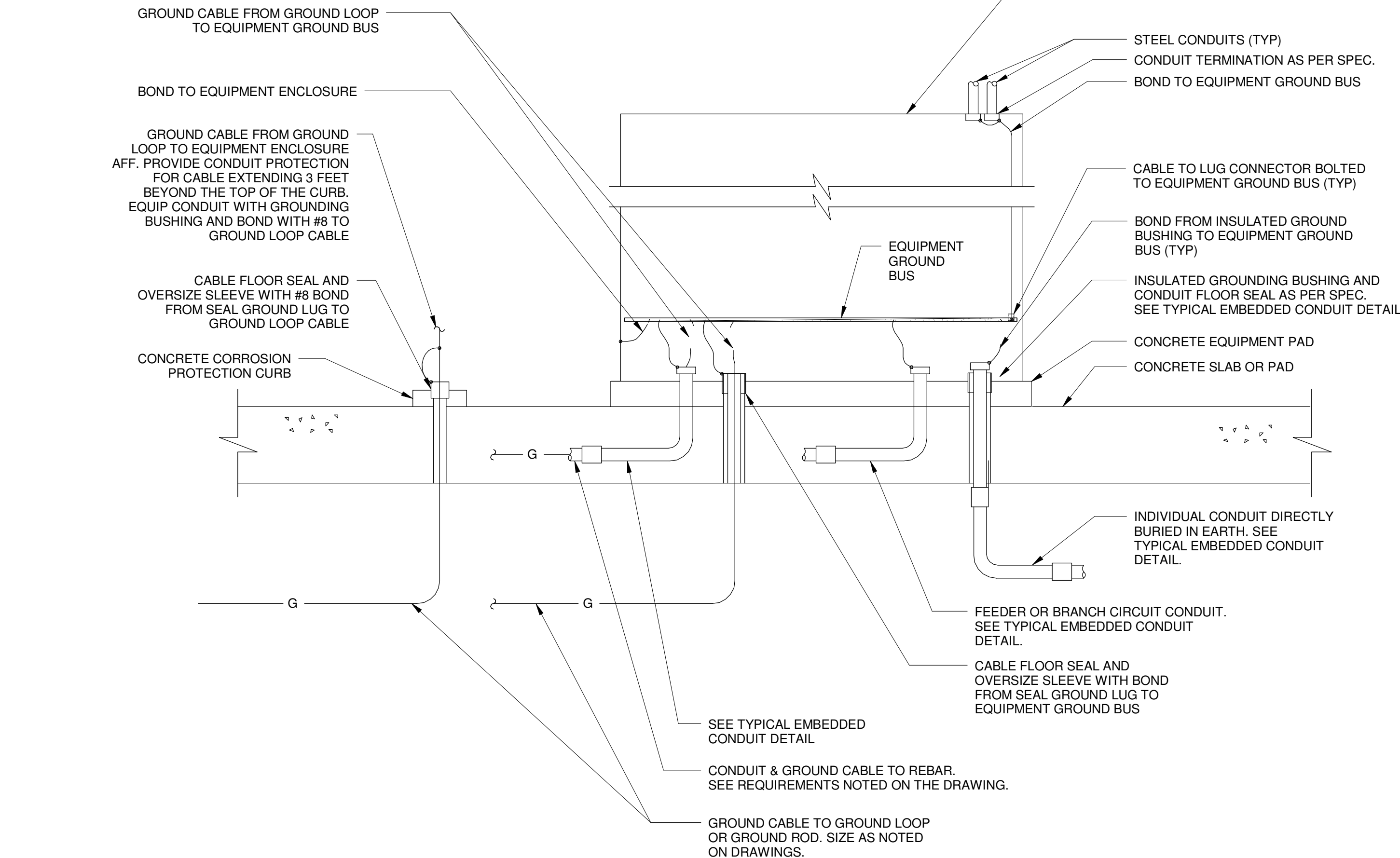
1" NIPPLE WITH LOCKNUT AND GROUNDING BUSHING. BOND GROUNDING BUSHING TO GROUND ROD WITH #8 BARE GROUND (TYP)

GROUND ROD COPPER-CLAD RIGID STEEL, 3/4" DIAMETER, 10' LONG

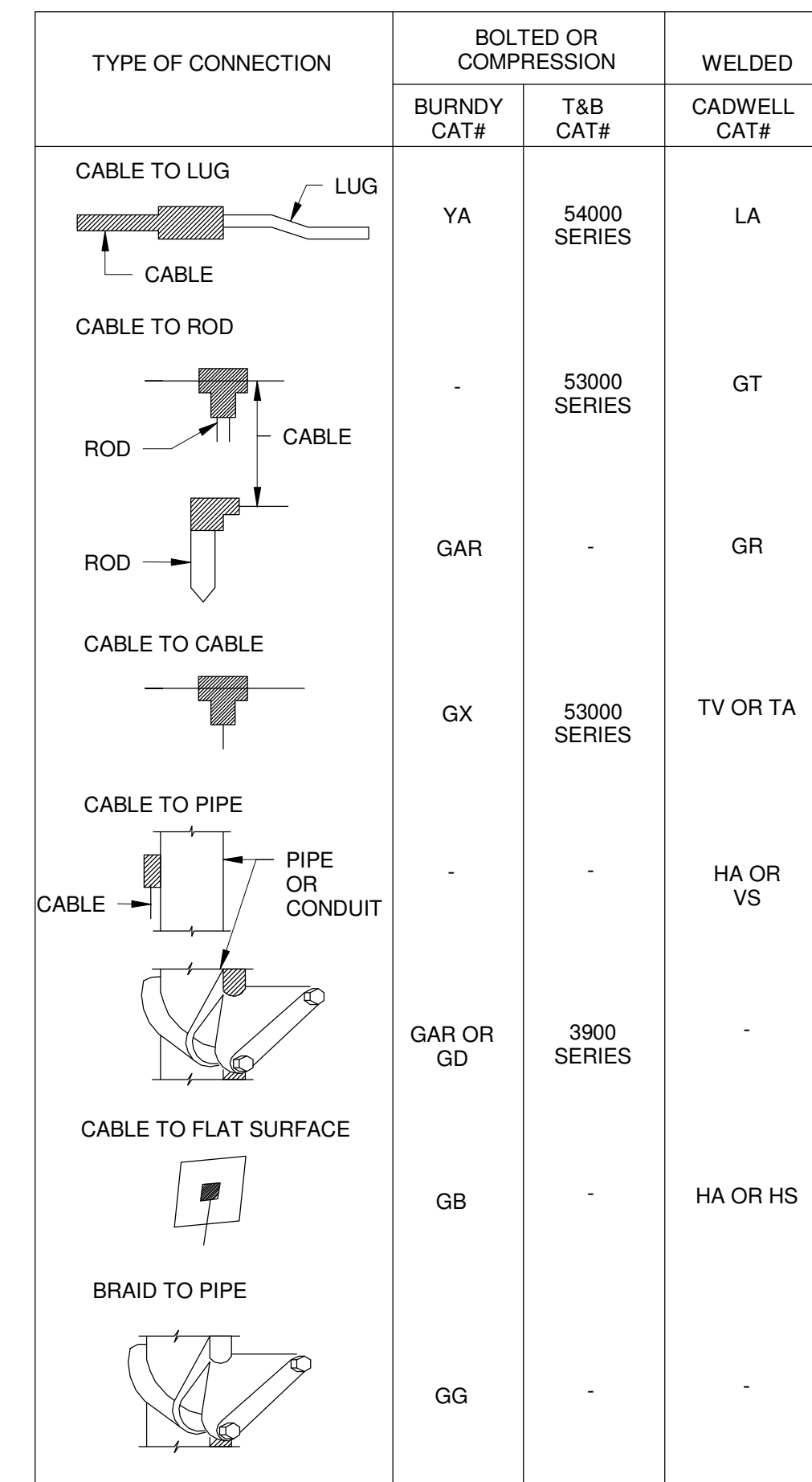
0" GROUND LOOP (TYP)

UNDERGROUND CONNECTIONS SHALL BE WELDED EXOTHERMIC

1/4" OPENING FOR GROUND ROD

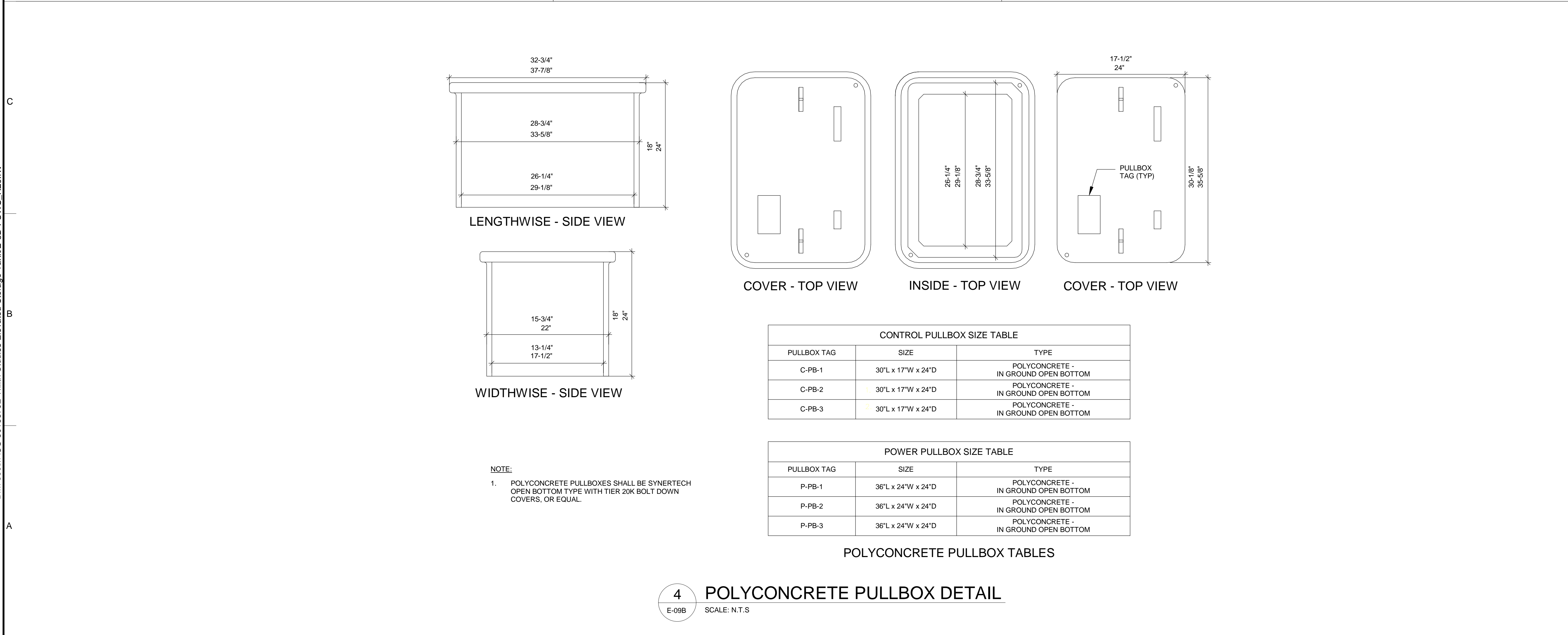
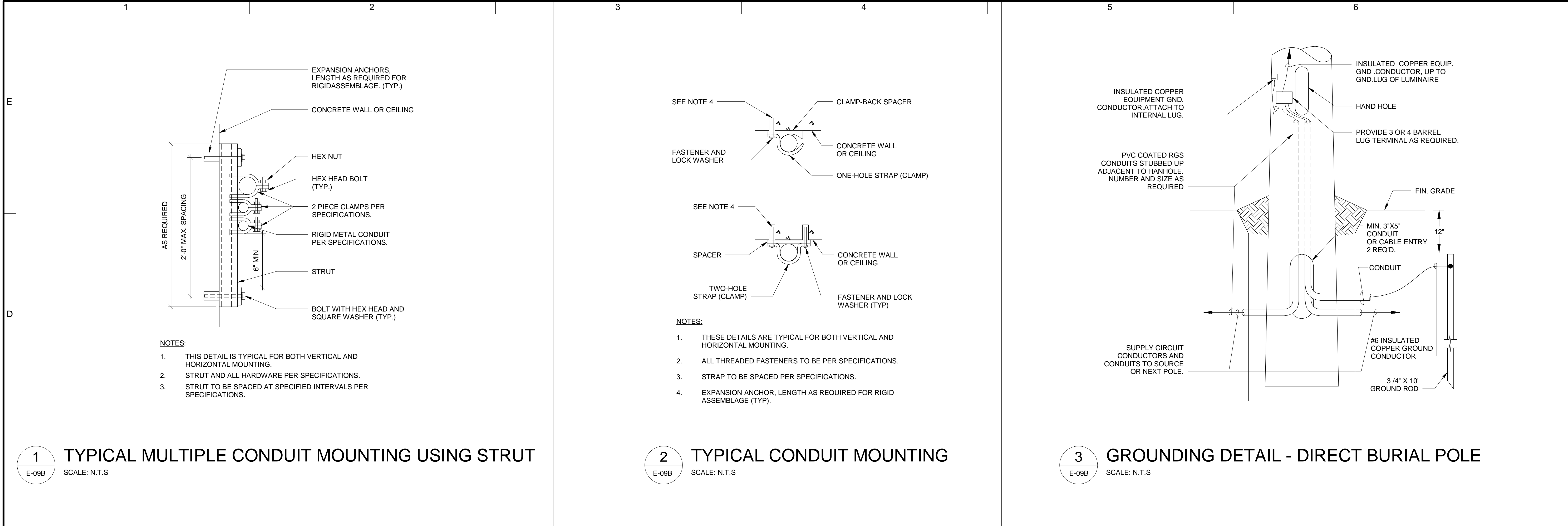


E-04



GROUND
SCALE: N.T.S.

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FAYETTE COUNTY WATER SYSTEM

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ELEVATED WATER STORAGE TANK

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PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: E-09B

DESIGNED BY: N. DESHPANDE

DRAWN BY: K. SATHISH

CHECKED BY: T. POWELL

SHEET TITLE

ELECTRICAL

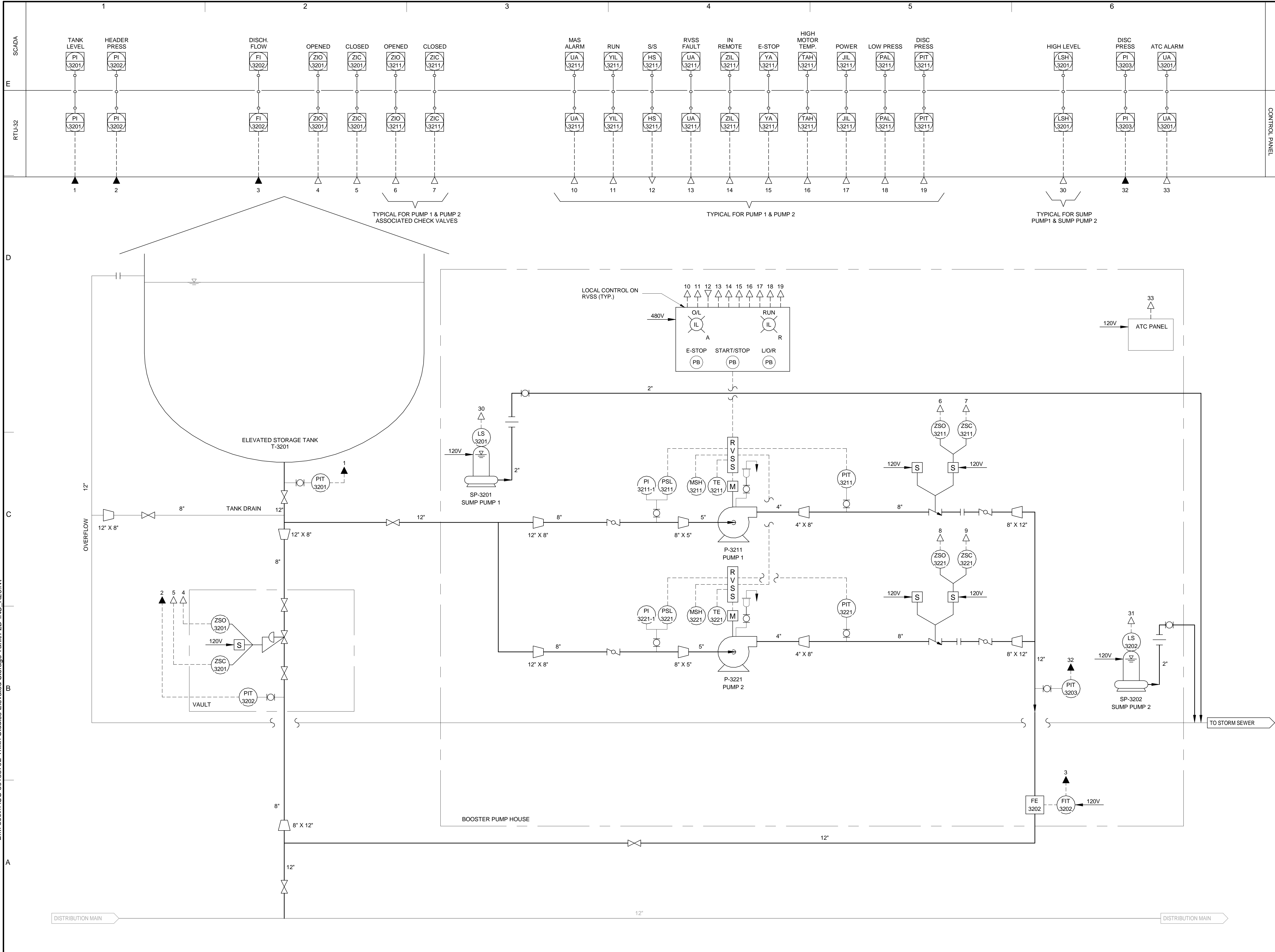
TYPICAL ELECTRICAL DETAILS - SHEET 2 OF 2


SCALE: N.T.S

E-09B

SHEET 52 OF 60

BIM 360://AUS-30135792-Trilith Studios Elevated Storage Tank/L-2D-INS_R20.rvt 07-07-2023 17:43:47





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SCADA


RTU-32

REMOTE
UNIT
CONTROL PANEL

SEALS

ISSUE FOR BID

FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER
SYSTEM



FCWS - TRILITH
STUDIOS ELEVATED
WATER STORAGE TANK

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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: I-02

DESIGNED BY: S. AYOADE

DRAWN BY: M. ANDAVARAPU

CHECKED BY: T. POWELL

SHEET TITLE

INSTRUMENTATION AND
CONTROLS

ELEVATED WATER
STORAGE TANK
P&ID

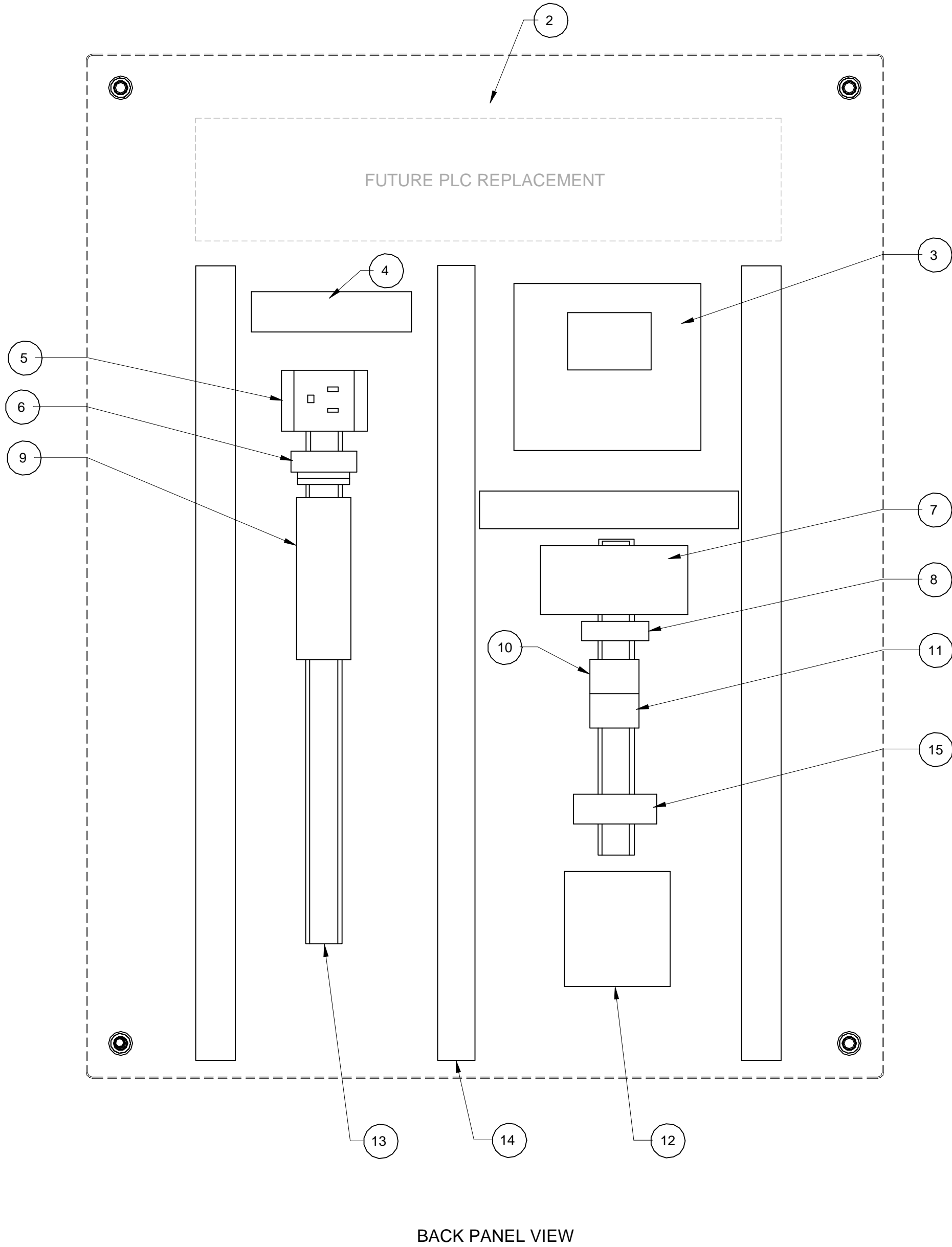
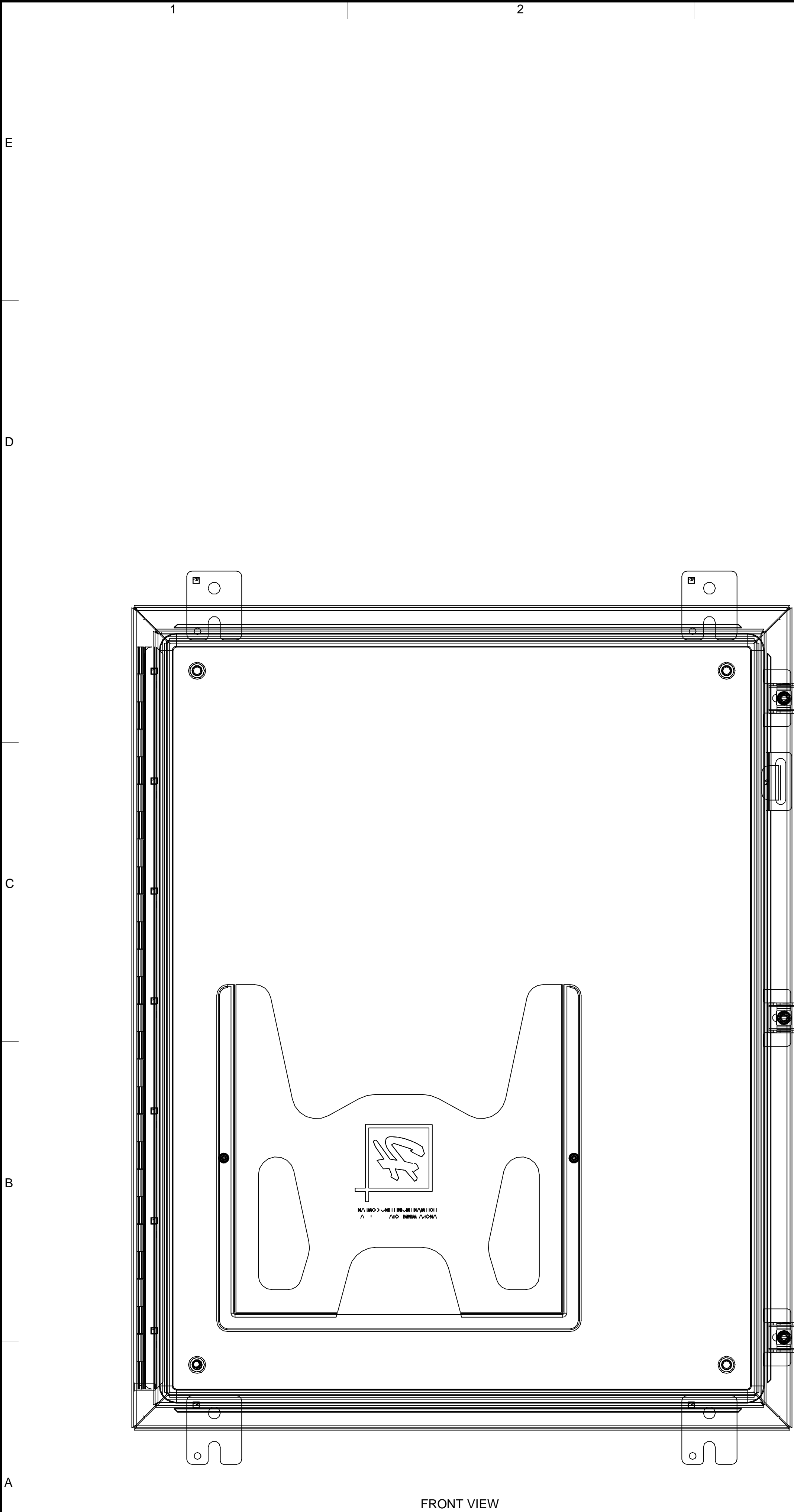
SCALE:

NTS


I-02

SHEET 54 OF 60

07-07-2023 17:43:47 BIM 360://AUS-30135792-Trilith Studios Elevated Storage Tank/L-2D-INS_R20.rvt



BILL OF MATERIAL	
S.NO	DESCRIPTION
1	NEMA 4X ENCLOSURE WALL MOUNT
2	BACKPANEL
3	HORNER
4	CELLULAR MODEM
5	RECEPTACLE
6	120V CIRCUIT BREAKER
7	24VDC POWER SUPPLY
8	SURGE PROTECTION (120V)
9	RELAYS
10	TERMINAL BLOCKS
11	GROUNDING TERMINAL BLOCKS
12	BACK UP POWER
13	DIN RAIL
14	WIRE TRAY
15	HEATER




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WATER STORAGE TANK

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PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: I-03

DESIGNED BY: S. AYOADE

DRAWN BY: M. ANDAVARAPU

CHECKED BY: T. POWELL

SHEET TITLE

INSTRUMENTATION AND
CONTROLS

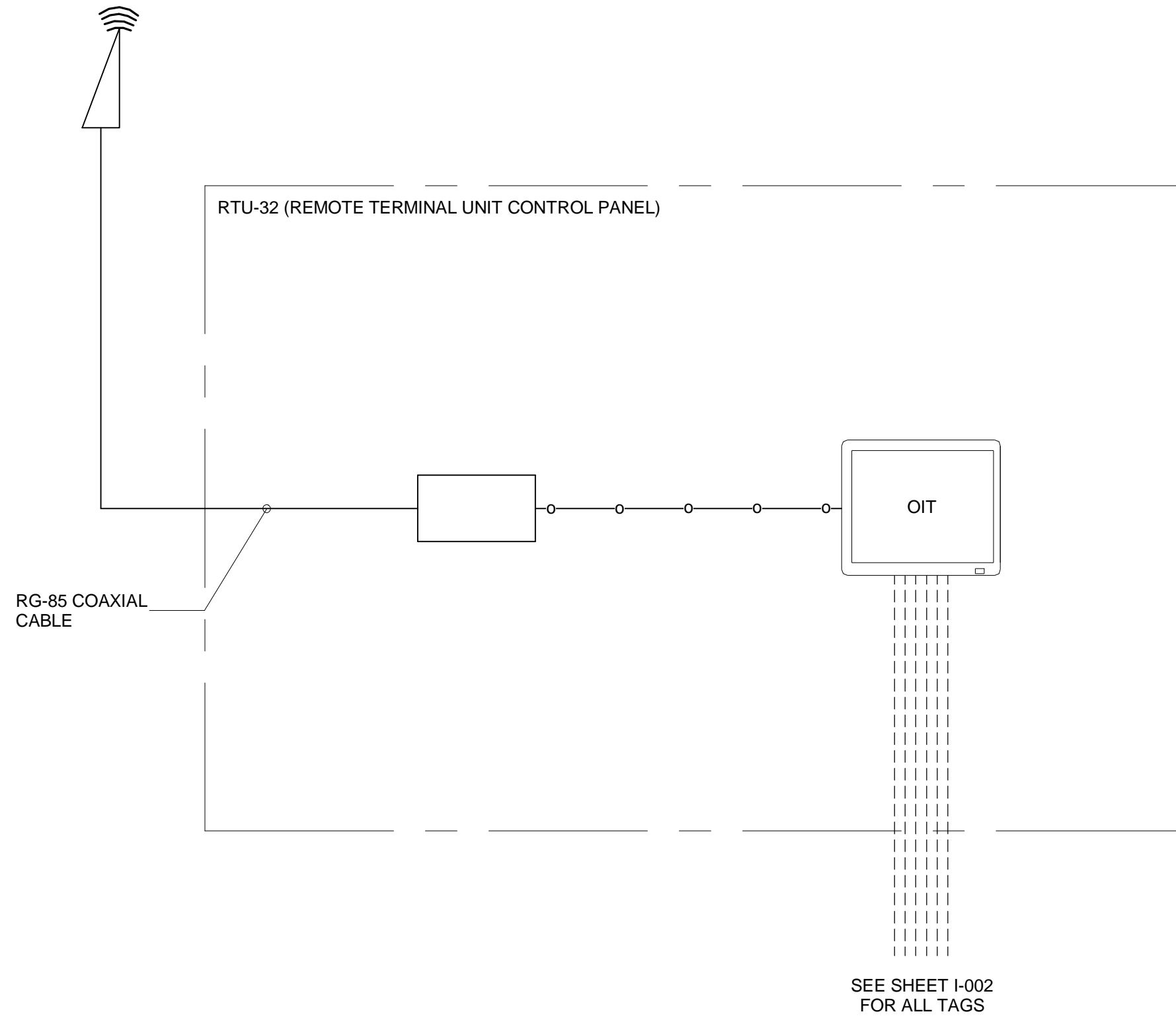
RTU CONTROL PANEL

SCALE:

NTS

I-03

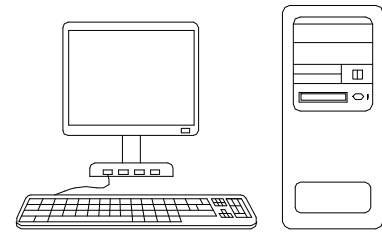
SHEET 55 OF 60



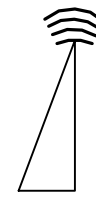
NOTE:

1. ANTENNA TO BE MOUNTED ON SIDE OF BUILDING.
SEE SHEET I-05 FOR MOUNTING DETAILS.

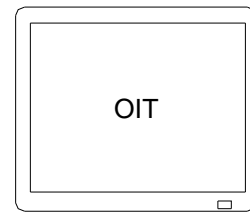
LEGEND:



COMPUTER WORKSTATION
WITH SINGLE MONITOR, KEYBOARD
, AND MOUSE



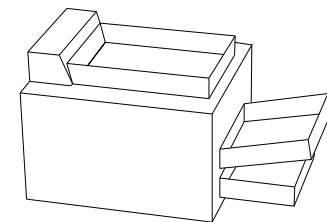
RADIO ANTENNA



OPERATOR INTERFACE TERMINAL



CELLULAR MODEM



PRINTER

ELECTRICAL SIGNAL CABLE

ETHERNET/CAT 6 CABLE



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WATER STORAGE TANK

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DATE: JULY 2023

FILE NAME: I-04

DESIGNED BY: S. AYOADE

DRAWN BY: M. ANDAVARAPU

CHECKED BY: T. POWELL

SHEET TITLE

INSTRUMENTATION AND CONTROLS

NETWORK BLOCK DIAGRAM

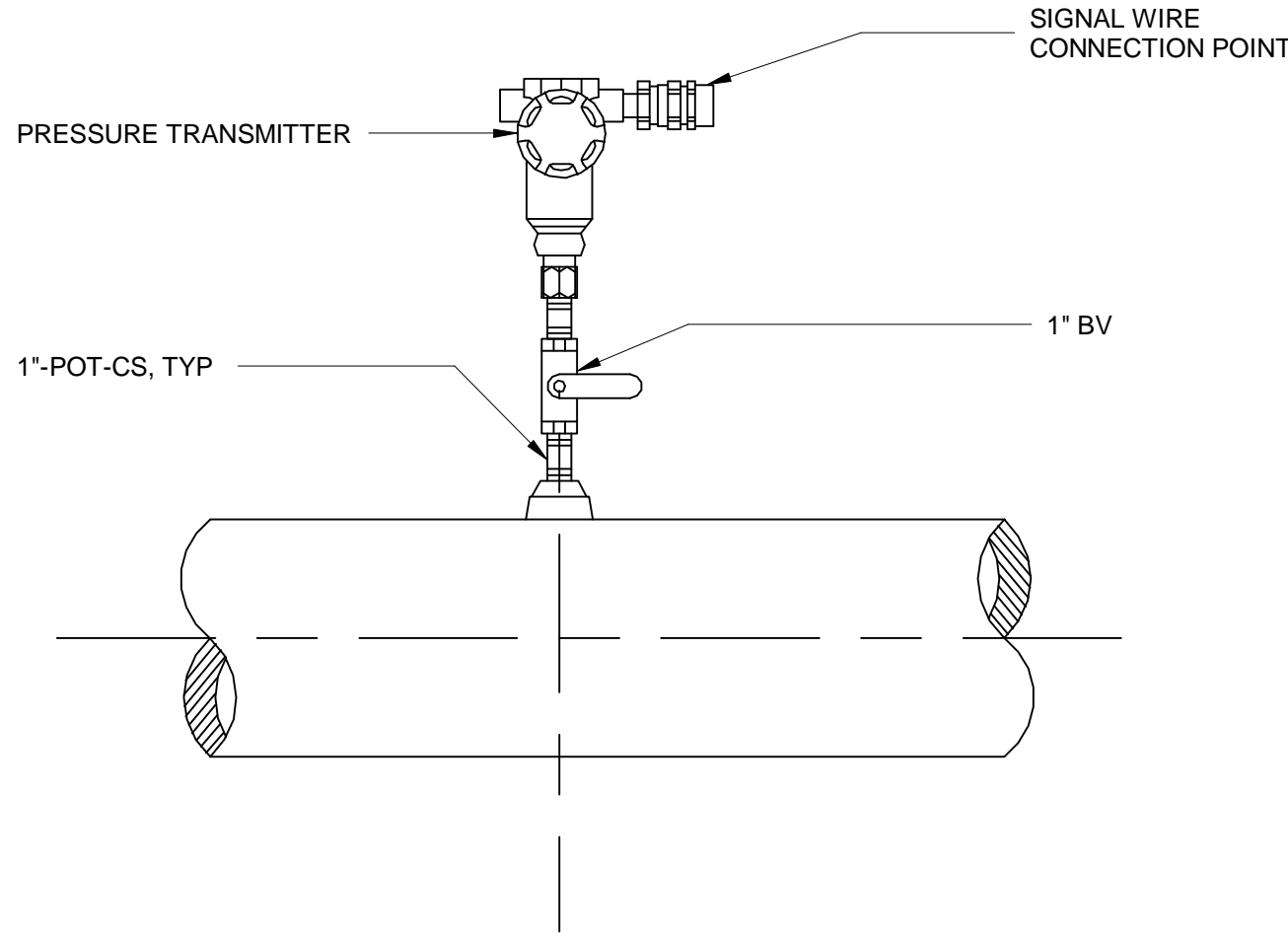
SCALE:

NTS

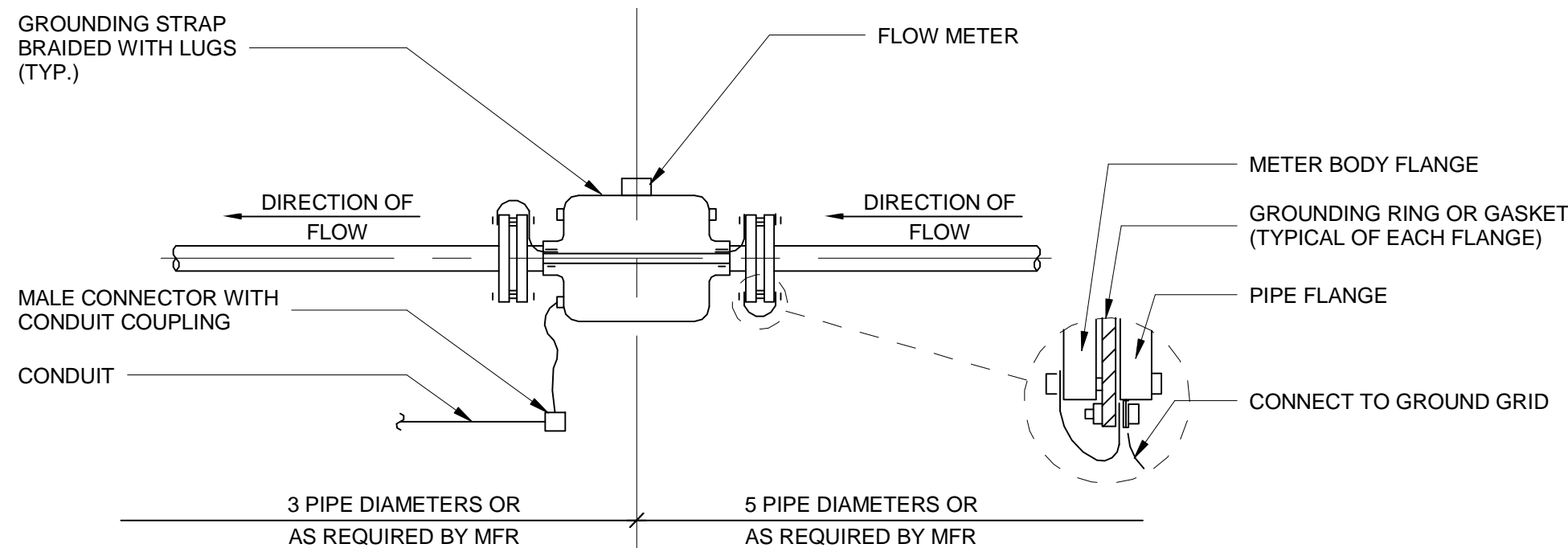
1-04

SHEET 56 OF 60

BIM 360://AUS-30135792-Trilith Studios Elevated Storage Tank/L2D-INS_R20.rvt 07-07-2023 17:43:48



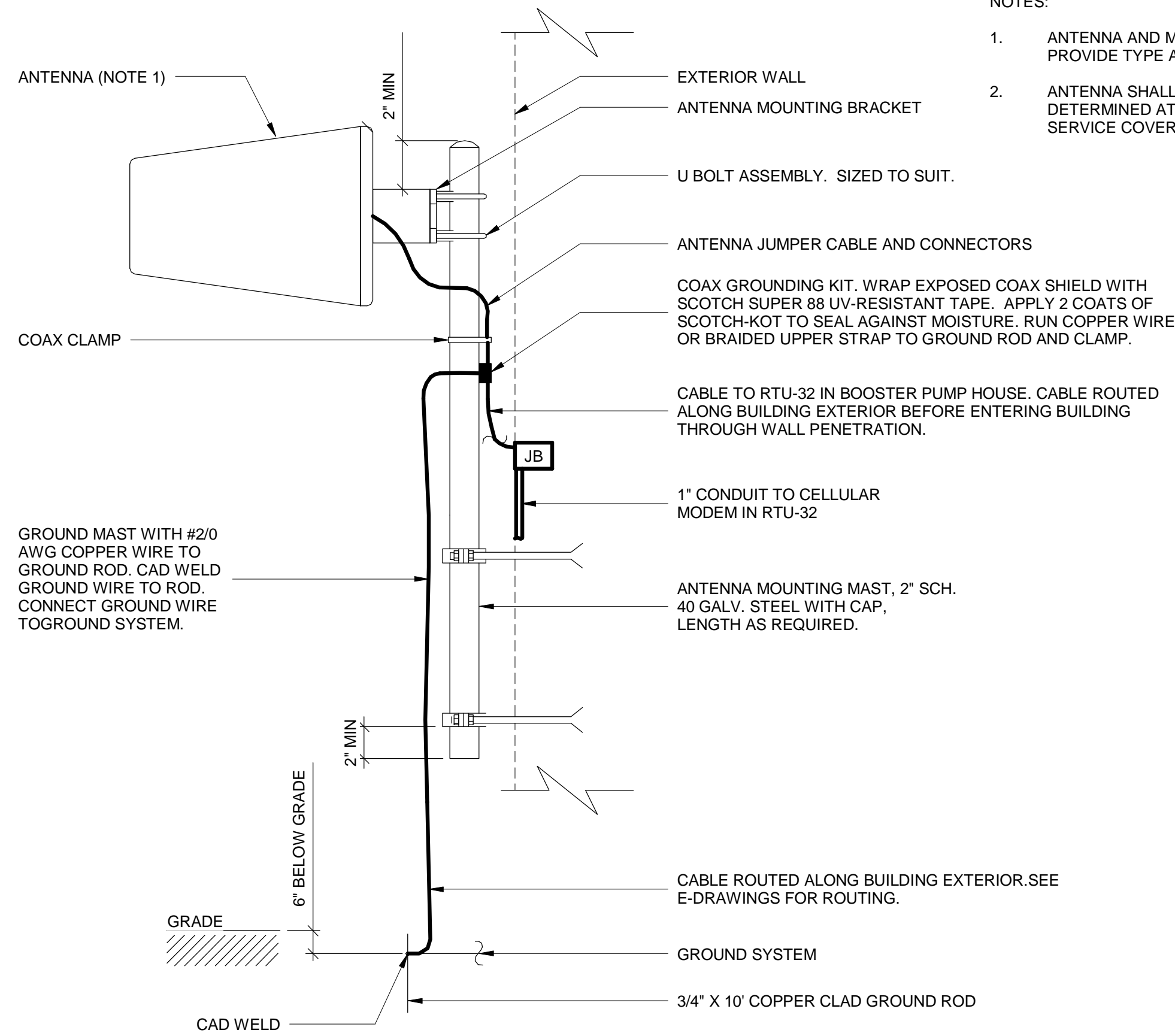
1 PRESSURE TRANSMITTER INSTALLATION DETAIL
SCALE: NOT TO SCALE



NOTES:

1. FLOW METER DETAIL SHOWN SHALL BE USED FOR BOTH ELECTRICALLY NON-CONDUCTIVE AND CONDUCTIVE TYPE PIPELINES.
2. BOND MAGNETIC FLOW METER TO ONE OF THE FOLLOWING ACCEPTABLE GROUNDS:
 - METALLIC WATER PIPE IF BURIED PORTION IS MORE THAN 10 FEET.
 - STRUCTURAL STEEL
3. GROUND WIRE SHALL BE NO. 12AWG INSULATED. IF LENGTH OF GROUND WIRE IS MORE THAN 6 FEET, INSTALL CONDUCTOR IN 3/4" CONDUIT.
4. SIGNAL CABLE SHALL BE INSTALLED IN CONDUIT. CONDUIT NOT SHOWN
5. PROVIDE POWER TO TRANSMITTER.
6. ENSURE CONDUIT CONNECTIONS TO DEVICE IS ADEQUATELY SEALED SUCH THAT SUBMERGENCE WILL NOT ALLOW WATER TO ENTER INTO CONDUIT OR INSTRUMENT.
7. A NON-CONDUCTIVE SILICON OIL SHALL BE USED TO FILL THE CONDUIT RUN. ALTERNATELY AN APPROPRIATE POTTING MAY BE USED TO FILL THE CONDUIT RUN TO OCCUPY THE SPACE IN WHICH CONDENSATION WILL BE NORMALLY FORMED. USE PROPERLY POTTED CONNECTIONS OR SEALED GLAND. ALL SUITABLE FOR SUBMERGENCE (MINIMUM 6FT OF SUBMERGENCE).

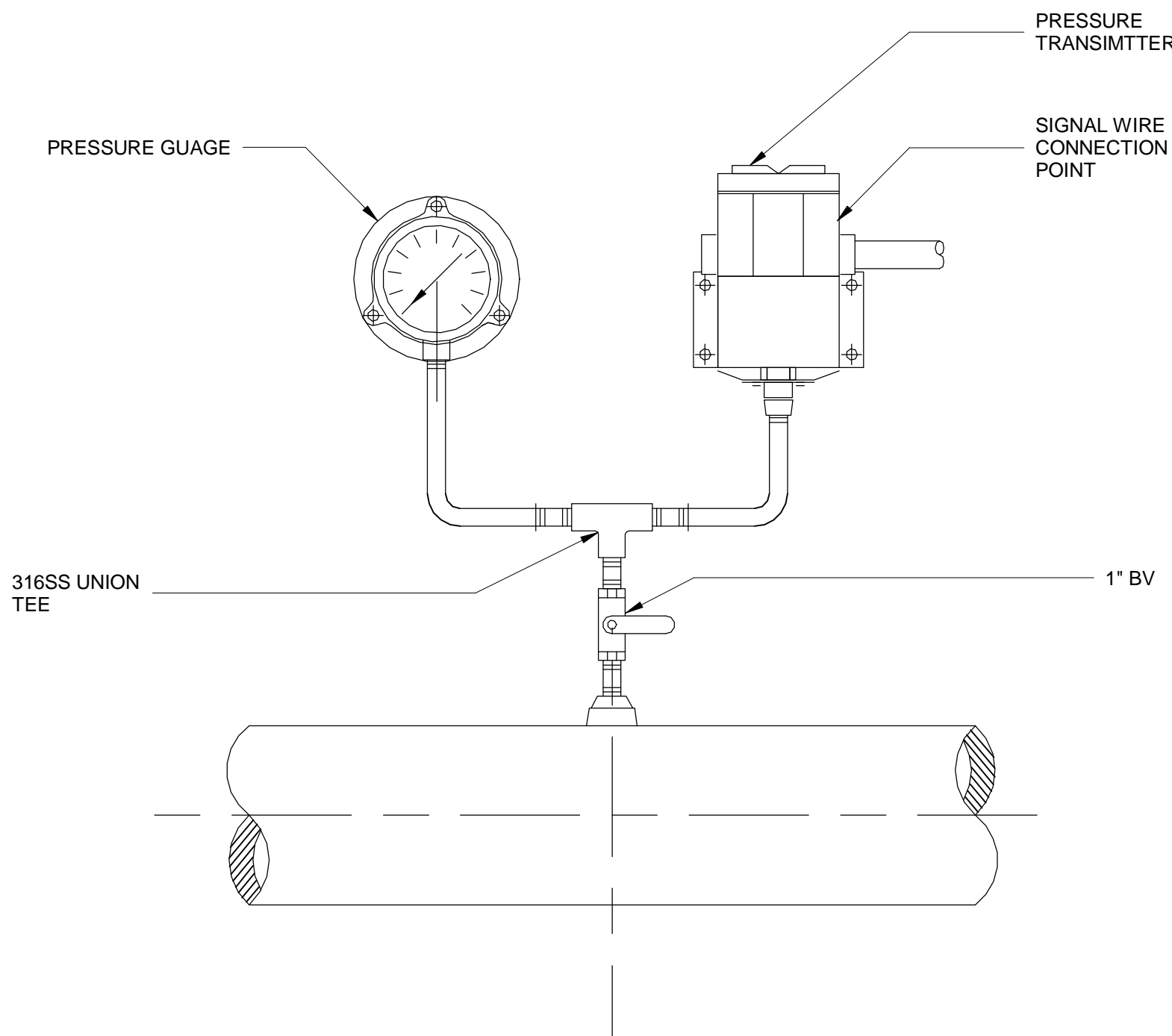
3 MAGNETIC FLOW METER INSTALLATION DETAIL
SCALE: NTS



NOTES:

1. ANTENNA AND MOUNTING BRACKET SHOWING IS REPRESENTATIONAL. PROVIDE TYPE AS SPECIFIED.
2. ANTENNA SHALL BE MOUNTED ON POLE. FINAL LOCATION SHALL BE DETERMINED AT TIME OF INSTALLATION TO RECEIVE BEST CELLULAR SERVICE COVERAGE.

2 OUTDOOR ANTENNA INSTALLATION DETAIL
SCALE: NOT TO SCALE



4 PRESSURE GUAGE AND PRESSURE SWITCH INSTALLATION DETAIL
SCALE: NTS



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PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: I-05

DESIGNED BY: S. AYOADE

DRAWN BY: M. ANDAVARAPU

CHECKED BY: T. POWELL

SHEET TITLE

INSTRUMENTATION AND
CONTROLS

INSTRUMENTATION
DETAILS



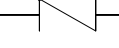

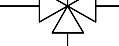
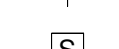


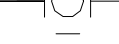

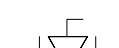
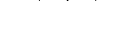


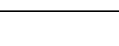
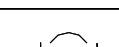







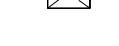
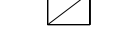
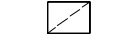

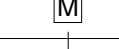
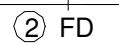
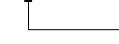
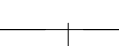


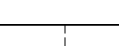
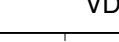
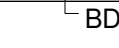


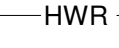
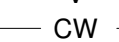

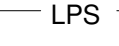
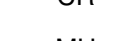


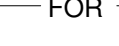
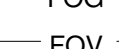

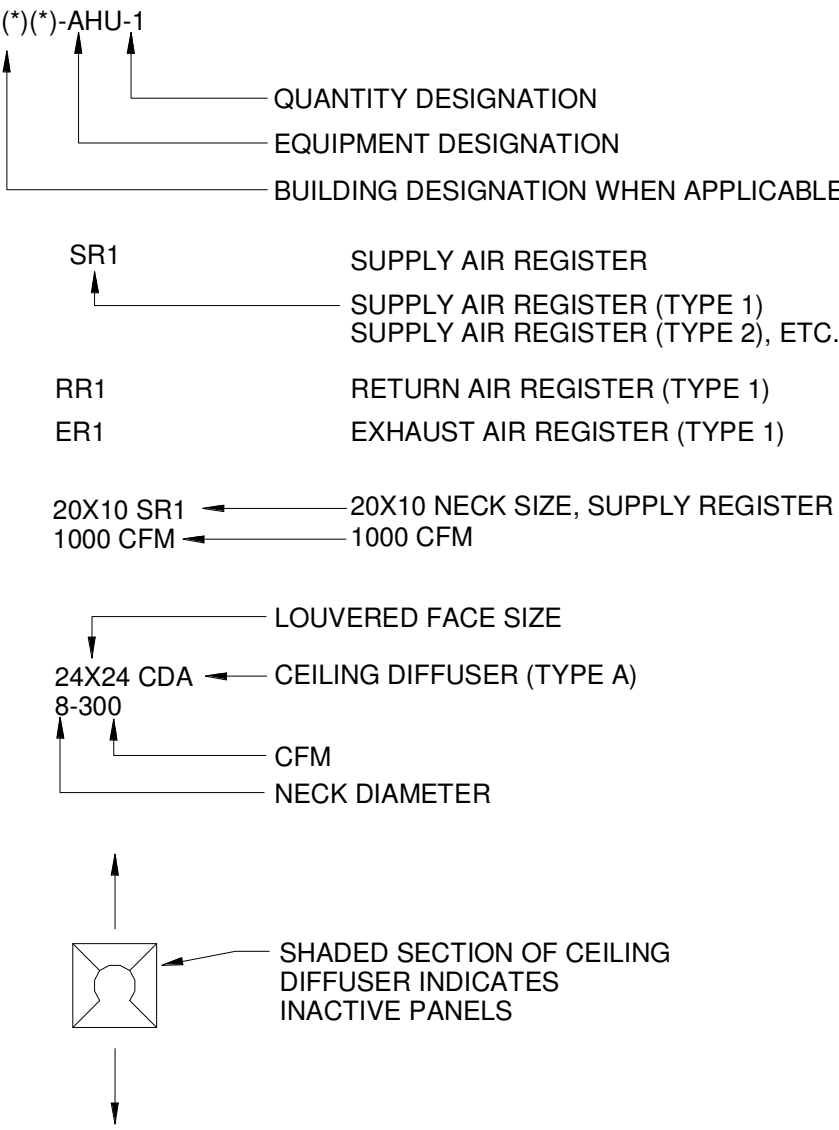
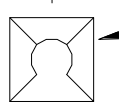
SCALE:


NTS

I-05

SHEET 57 OF 60

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1	2	3	4	5	6	
SYMBOLS:		ABBREVIATIONS:		GENERAL NOTES: (APPLICABLE TO ALL DRAWINGS AND SPECIFICATIONS)		
E		THERMOSTAT/SENSOR	AC	AIR CONDITIONING, AIR CONDITIONING UNIT	NPWS	NON POTABLE WATER SUPPLY
		GATE VALVE	ACCU	AIR COOLED CONDENSING UNIT	NPWR	NO POTABLE WATER RETURN
		CHECK VALVE	AD	ACCESS DOOR	OA	OUTSIDE AIR
		AUTOMATIC CONTROL VALVE 2-WAY	AF/BI FAN	AIRFOIL/BACKWARD INCLINED FAN	ORP	OXYGEN REDUCTION POTENTIAL
		AUTOMATIC CONTROL VALVE 3-WAY	AFF	ABOVE FINISHED FLOOR	P	PUMP
		SOLENOID OPERATED VALVE	AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	PA	PRESSURIZATION AIR
		GLOBE VALVE	AHU	AIR HANDLING UNIT	PD	PRESSURE DROP
		BALL VALVE	APD	AIR PRESSURE DROP	PF	PROPELLER FAN
		BUTTERFLY VALVE	ATC	AUTOMATIC TEMPERATURE CONTROL	PH, Ø	PHASE
		COMBINATION BALANCING COCK & FLOW SENSOR	B	BOILER	PS	PRESSURE SENSOR
D		TRIPLE DUTY VALVE (STRAIGHT, ANGLE PATTERN)	BD	GRAVITY BACKDRAFT DAMPER	PW	POTABLE WATER
		PIPING ELBOW, 90° TURNED DOWN	BHP	BRAKE HORSEPOWER	RA	RETURN AIR
		PIPING ELBOW, 90° TURNED UP	BOD	BOTTOM OF DUCT	RH	RELATIVE HUMIDITY
		PIPING TEE, OUTLET TURNED DOWN	BOR	BOTTOM OF REGISTER	RO	ROOF OPENING
		PIPING TEE, OUTLET TURNED UP	BOU	BOTTOM OF UNIT	RL	REFRIGERANT LIQUID
		PRESSURE GAUGE WITH SHUTOFF COCK (BALL VALVE)	BV	BRICK VENT	RLA	RATED LINE AMPS
		THERMOMETER	CB	CIRCUIT BREAKER	RS	REFRIGERANT SUCTION
		SUPPLY AIR DUCT SECTION-UP	CFM	CUBIC FEET OF STANDARD AIR PER MINUTE	RPM	REVOLUTIONS PER MINUTE
		SUPPLY AIR DUCT SECTION-DOWN	CH	CABINET UNIT HEATER	SA	SUPPLY AIR
		RETURN AIR DUCT SECTION-UP	CWP	CHILLED WATER PUMP	SD	SMOKE DETECTOR
C		RETURN AIR DUCT SECTION-DOWN	CWS	CHILLED WATER SUPPLY	SF	SUPPLY AIR FAN
		MOTORIZED DAMPER	CWR	CHILLED WATER RETURN	SH	SENSIBLE HEAT
		FIRE DAMPER WITH ACCESS DOOR	DB	DRY BULB	SP	STATIC PRESSURE
		# HOUR RATED WALL (2 HR. SHOWN)	DEC	DIRECT EVAPORATIVE COOLING	SPEC	SPECIFICATION
		FIRE/SMOKE DAMPER WITH ACCESS DOOR	DIA	DIAMETER	SS	STAINLESS STEEL
		# HOUR RATED WALL (2 HR. SHOWN)	DM	DAMPER MOTOR	SV	SOLENOID VALVE
		MANUAL VOLUME DAMPER	DWP	DOMESTIC WATER PUMP	SWP	SOLAR WATER PUMP
		BACKDRAFT DAMPER	EA	EXHAUST AIR	TEMP	TEMPERATURE
		CHANGE OF ELEVATION: RISE (R) OR DROP (D)	EAT	ENTERING AIR TEMPERATURE	TF	TRANSFER FAN
		HOT WATER SUPPLY LINE	EAV	EXHAUST AIR VENT OR EXHAUST AIR VALVE	TH	TOTAL HEAT
B		HOT WATER RETURN LINE	EC	EVAPORATIVE COOLING	TOD	TOP OF DUCT
		VENT	EDH	ELECTRIC DUCT HEATER	TOU	TOP OF UNIT
		COLD WATER	EF	EXHAUST FAN	TOR	TOP OF REGISTER
		HIGH PRESSURE STEAM	EL/ELEV	ELEVATION	TSP	TOTAL STATIC PRESSURE
		LOW PRESSURE STEAM	ES	ENTHALPY SENSOR	TS	TEMPERATURE SENSOR
		CONDENSATE RETURN	ESP	EXTERNAL STATIC PRESSURE	TYP	TYPICAL
		MAKE UP WATER	ET	EXPANSION TANK	UH	UNIT HEATER
		DRAIN	EWT	ENTERING WATER TEMPERATURE	UOR	UNDERSIDE OF ROOF
		FUEL OIL SUPPLY	EUH	ELECTRIC UNIT HEATER	VAV	VARIABLE AIR VOLUME
		FUEL OIL RETURN	FA	FREE AREA	V	VOLTS
A		FUEL OIL GAUGE	FC	FLEXIBLE CONNECTOR OR FAN COIL	VEL	VELOCITY
		FUEL OIL VENT	FD	FIRE DAMPER WITH ACCESS DOOR	VD	VOLUME DAMPER
		NATURAL GAS	FLA	FULL LOAD AMPS	VH	HEATING CONTROL VALVE
		CHILLED WATER SUPPLY	FO	FUEL OIL	VC	COOLING CONTROL VALVE
		CHILLED WATER RETURN	FOP	FUEL OIL PUMP	WPD	WATER PRESSURE DROP
		CHEMICAL FEED	FOR	FUEL OIL RETURN	W/	WITH
		CONDENSER WATER SUPPLY	FOS	FUEL OIL SUPPLY	WB	WET BULB
		CONDENSER WATER RETURN	FOV	FUEL OIL VENT	WC	WATER COLUMN
			FPM	FEET PER MINUTE		
			FTR	FINNED TUBE RADIATION		



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SEALS

ISSUE FOR BID

FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER
SYSTEM

FAYETTE
County
Water

FCWS-TRILITH STUDIOS
ELEVATED WATER
STORAGE TANK

400 VETERANS PARKWAY,
FAYETTEVILLE, GA 30214,
UNITED STATES

REVISIONS

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PROJECT STATUS: ISSUE FOR BID

PROJECT NO.: 30135792

DATE: JULY 2023

FILE NAME: H-01

DESIGNED BY: D. OCHARZAK

DRAWN BY: L. BANGARU

CHECKED BY: Q. TU

SHEET TITLE

HVAC

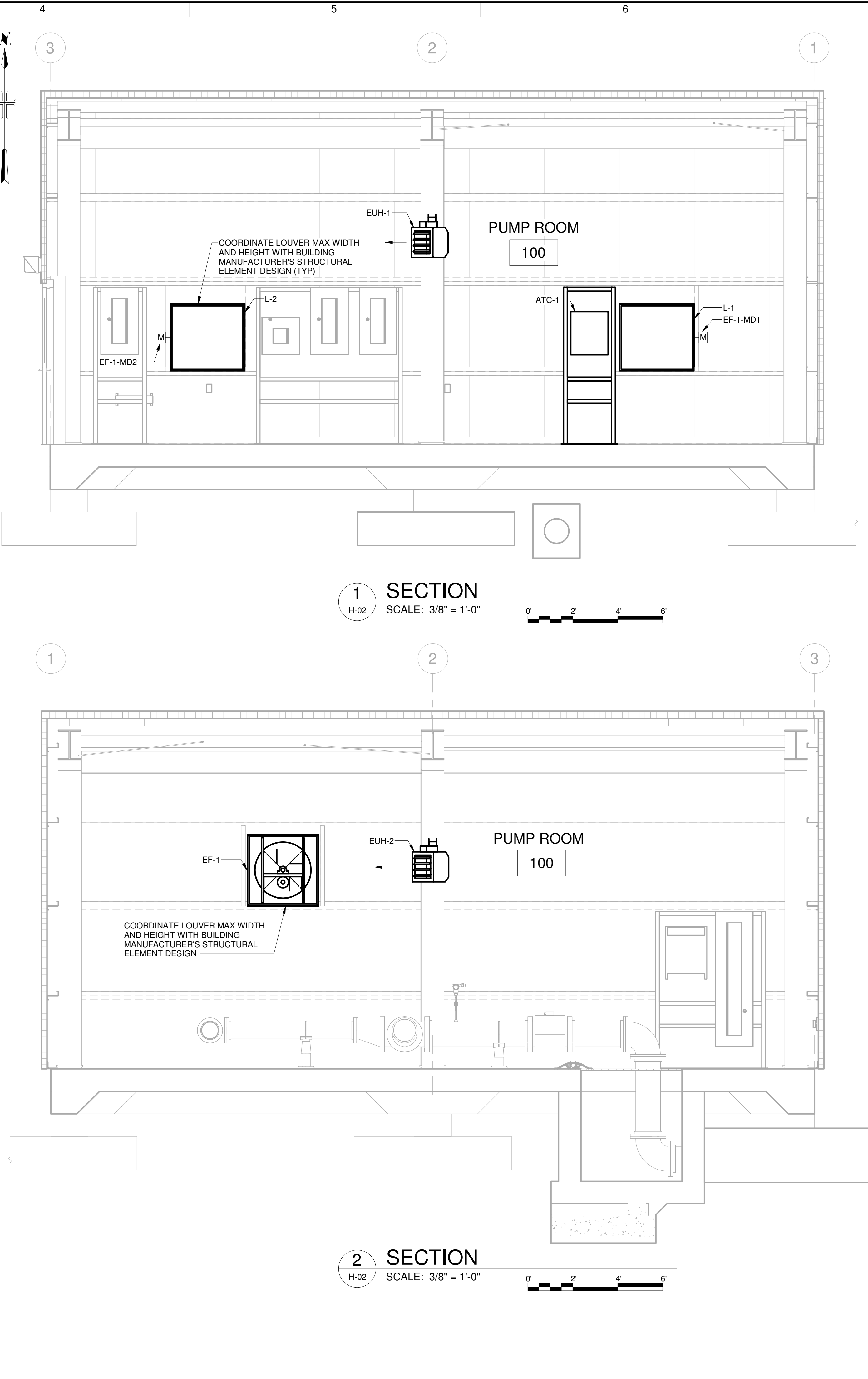
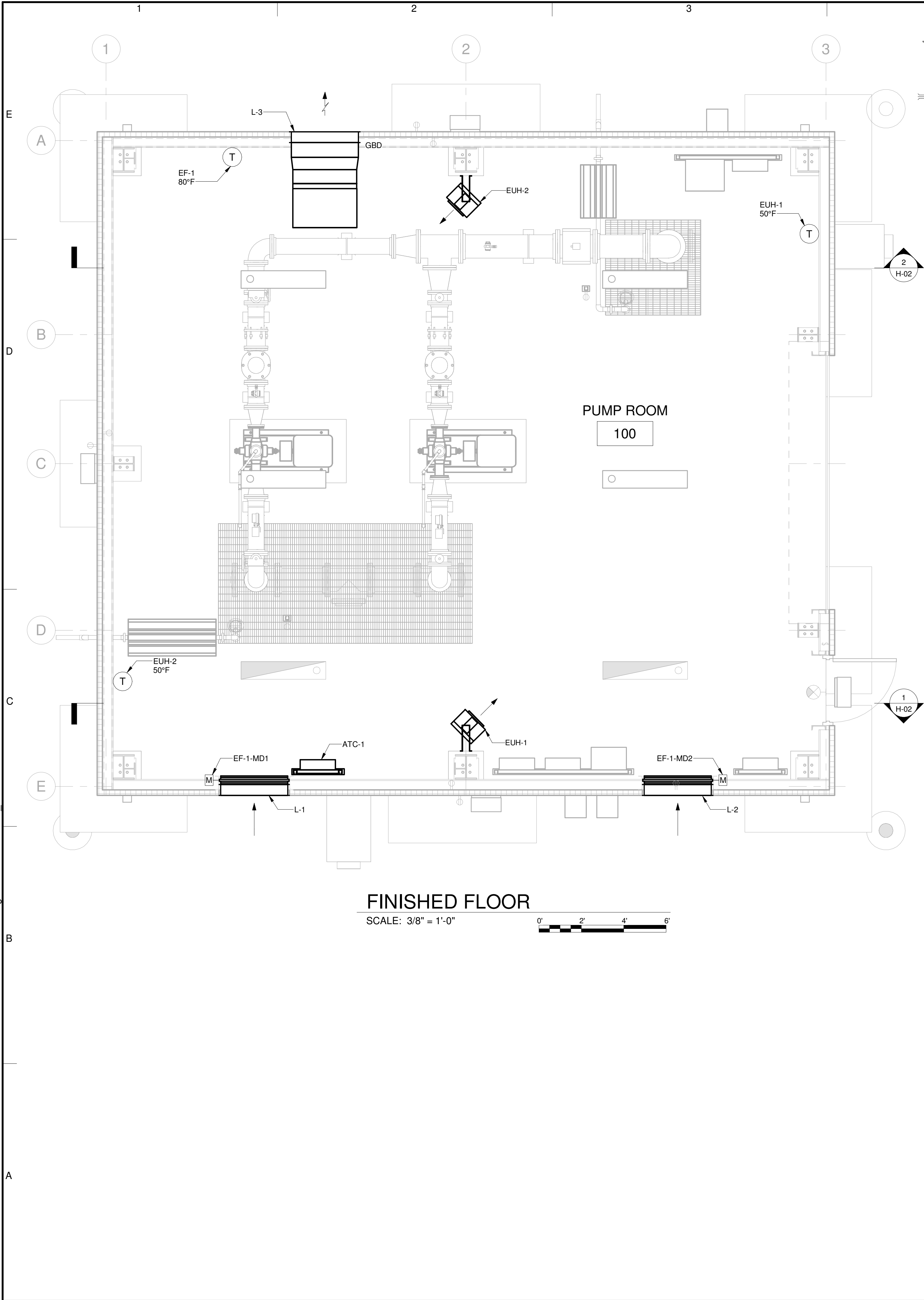
SYMBOLS,
ABBREVIATIONS,
NOTES AND TABLES


SCALE: NTS

H-01

SHEET 58 OF 60

BIM 360://AUS-30135792-Trilith Studios Elevated Storage Tank/H-3D-FCWS R20.rvt 07-07-2023 16:28:35






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FAYETTE COUNTY, GEORGIA
FAYETTE COUNTY WATER SYSTEM



FCWS-TRILITH STUDIOS
ELEVATED WATER
STORAGE TANK

400 VETERANS PARKWAY,
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PROJECT STATUS: ISSUE FOR BID

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FILE NAME: H-02

DESIGNED BY: D. OCHARZAK

DRAWN BY: L. BANGARU

CHECKED BY: Q. TU

SHEET TITLE

HVAC

BOOSTER PUMP
STATION PLAN AND
SECTIONS

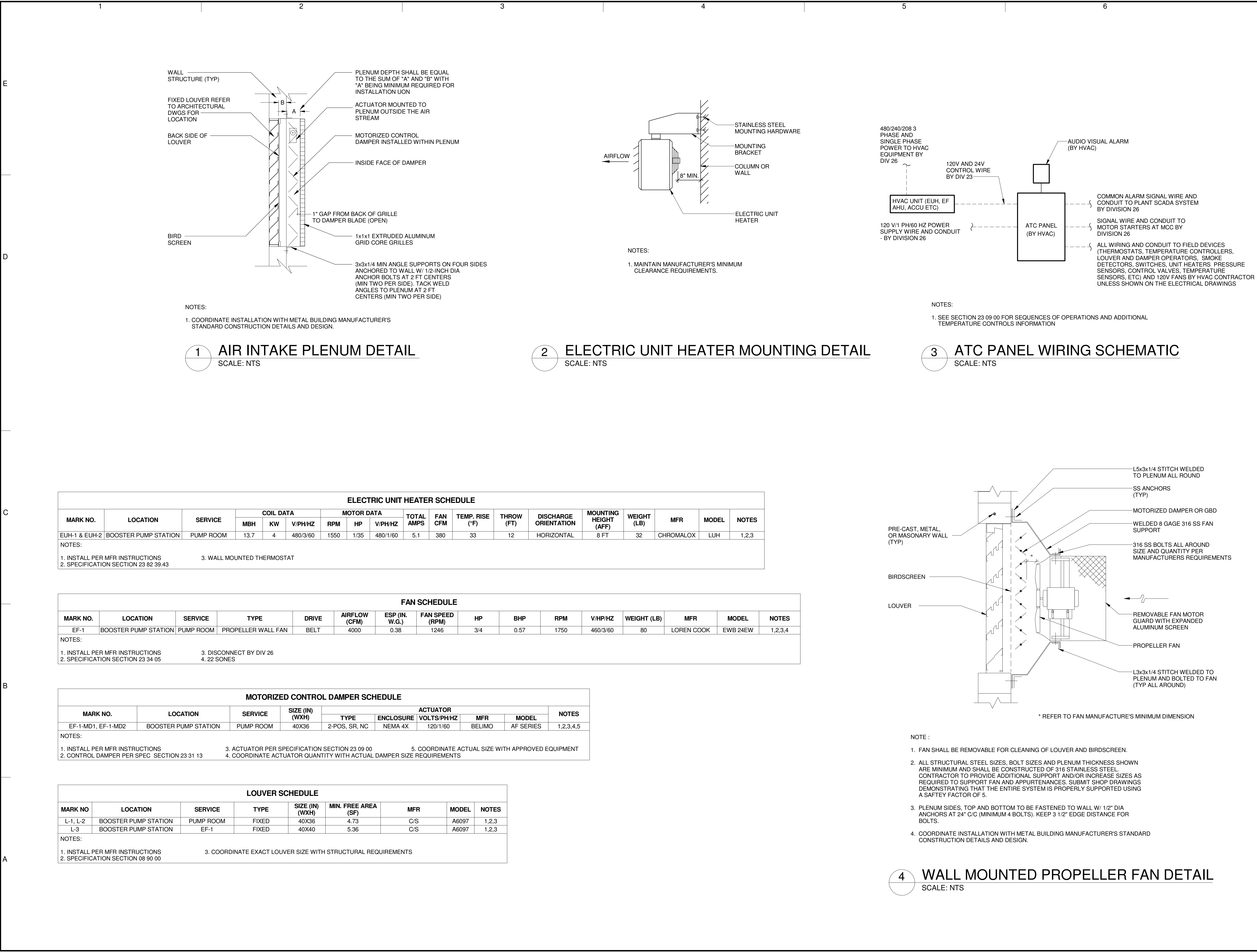
SCALE:

3/8" = 1'-0"

H-02

SHEET 59 OF 60

BIM 360://AUS-30135792-Trilith Studios Elevated Storage Tank/H-3D-FCWS R20.rvt 07-07-2023 16:28:35



ELECTRIC UNIT HEATER SCHEDULE																		
MARK NO.	LOCATION	SERVICE	COIL DATA			MOTOR DATA			TOTAL AMPS	FAN CFM	TEMP. RISE (°F)	THROW (FT)	DISCHARGE ORIENTATION	MOUNTING HEIGHT (AFF)	WEIGHT (LB)	MFR	MODEL	NOTES
			MBH	KW	V/PH/Hz	RPM	HP	V/PH/Hz										
EUH-1 & EUH-2	BOOSTER PUMP STATION	PUMP ROOM	13.7	4	480/3/60	1550	1/35	480/1/60	5.1	380	33	12	HORIZONTAL	8 FT	32	CHROMALOX	LUH	1,2,3
NOTES:																		
1. INSTALL PER MFR INSTRUCTIONS		3. WALL MOUNTED THERMOSTAT																
2. SPECIFICATION SECTION 23 82 39.43																		

FAN SCHEDULE															
MARK NO.	LOCATION	SERVICE	TYPE	DRIVE	AIRFLOW (CFM)	ESP (IN. W.G.)	FAN SPEED (RPM)	HP	BHP	RPM	V/HP/HZ	WEIGHT (LB)	MFR	MODEL	NOTES
EF-1	BOOSTER PUMP STATION	PUMP ROOM	PROPELLER WALL FAN	BELT	4000	0.38	1246	3/4	0.57	1750	460/3/60	80	LOREN COOK	EWB 24EW	1,2,3,4
NOTES:															
1. INSTALL PER MFR INSTRUCTIONS		3. DISCONNECT BY DIV 26													
2. SPECIFICATION SECTION 23 34 05															
4. 22 SONES															

MOTORIZED CONTROL DAMPER SCHEDULE									
MARK NO.	LOCATION	SERVICE	SIZE (IN) (WXH)	ACTUATOR					NOTES
				TYPE	ENCLOSURE	VOLTS/PH/Hz	MFR	MODEL	
EF-1-MD1, EF-1-MD2	BOOSTER PUMP STATION	PUMP ROOM	40x36	2-POS, SR, NC	NEMA 4X	120/1/60	BELIMO	AF SERIES	1,2,3,4,5
NOTES:									
1. INSTALL PER MFR INSTRUCTIONS		3. ACTUATOR PER SPECIFICATION SECTION 23 09 00			5. COORDINATE ACTUAL SIZE WITH APPROVED EQUIPMENT				
2. CONTROL DAMPER PER SPEC SECTION 23 31 13		4. COORDINATE ACTUATOR QUANTITY WITH ACTUAL DAMPER SIZE REQUIREMENTS							

LOUVER SCHEDULE								
MARK NO	LOCATION	SERVICE	TYPE	SIZE (IN) (WXH)	MIN. FREE AREA (SF)	MFR	MODEL	NOTES
L-1, L-2	BOOSTER PUMP STATION	PUMP ROOM	FIXED	40X36	4.73	C/S	A6097	1,2,3
L-3	BOOSTER PUMP STATION	EF-1	FIXED	40X40	5.36	C/S	A6097	1,2,3
NOTES:								
1. INSTALL PER MFR INSTRUCTIONS			3. COORDINATE EXACT LOUVER SIZE WITH STRUCTURAL REQUIREMENTS					
2. SPECIFICATION SECTION 08 90 00								

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FILE NAME: H-03

DESIGNED BY: D. OCHARZAK

DRAWN BY: L. BANGARU

CHECKED BY: Q. TU

SHEET TITLE

HVAC

DETAILS, SCHEMATIC AND SCHEDULES

SCALE: NTS

SHEET 60 OF 60