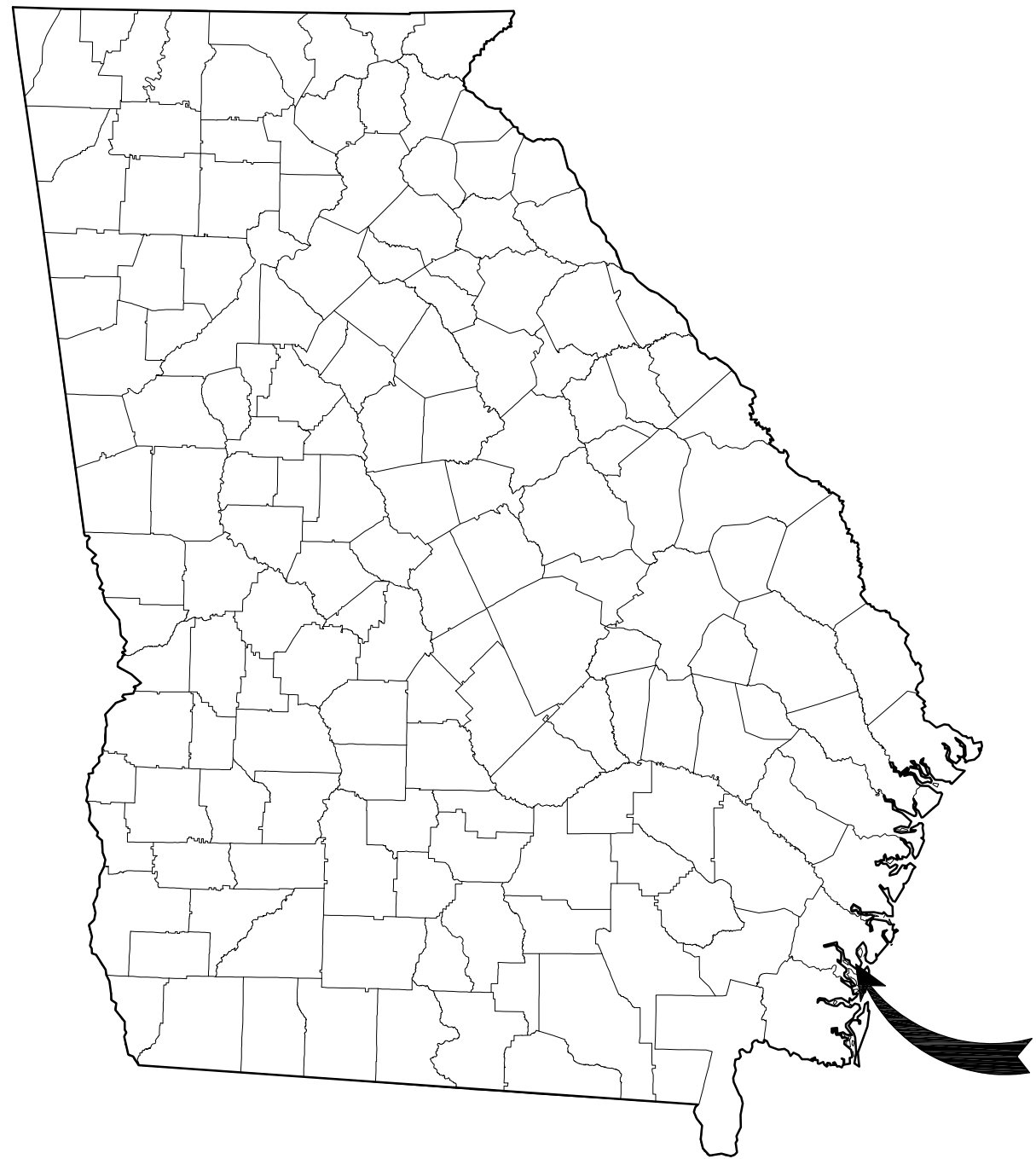


NOTES:
CONTRACTOR SHALL NOTIFY BGJWSC PLANNING
AND CONSTRUCTION DIVISION 48 HOURS BEFORE
STARTING WORK ON THIS PROJECT.



PROJECT
LOCATION

PUMP STATION UPGRADES PS3101

BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

BGJWSC PROJECT #22-014
RE-BID



DRAWING INDEX	
SHEET NO.	SHEET TITLE
101	COVER SHEET
102	GENERAL NOTES
103	STRUCTURAL GENERAL NOTES
104	STRUCTURAL SPECIAL INSTRUCTIONS
105	ELECTRICAL SYMBOLS LEGEND, ABBREVIATIONS & SCHEDULES
201	PS3101 EXISTING SITE PLAN
202	PS3101 EROSION CONTROL & SEDIMENT PLAN
206	PS3101 ELECTRICAL DEMOLITION PLAN
207	PS3101 ELECTRICAL SITE PLAN
208	PS3101 ELECTRICAL DIAGRAMS AND DETAILS
501	EROSION CONTROL & SEDIMENT PLAN DETAILS
502	EROSION CONTROL & SEDIMENT PLAN DETAILS
507	MISC. TYP. STRUCTURAL DETAILS AND SECTIONS

COMMISSION MEMBERS:

MR. BEN TURNIPSEED PE, CHAIRMAN
MR. BOB DUNCAN, VICE CHAIRMAN
MR. CHARLES COOK
MR. WAYNE NEAL
MS. KENDRA ROLLE
MR. TRIPP STEPHENS
MR. CHAD STRICKLAND

EXECUTIVE DIRECTOR:

MR. ANDREW BURROUGHS, PE

PROJECT OWNER AND CONSULTANTS

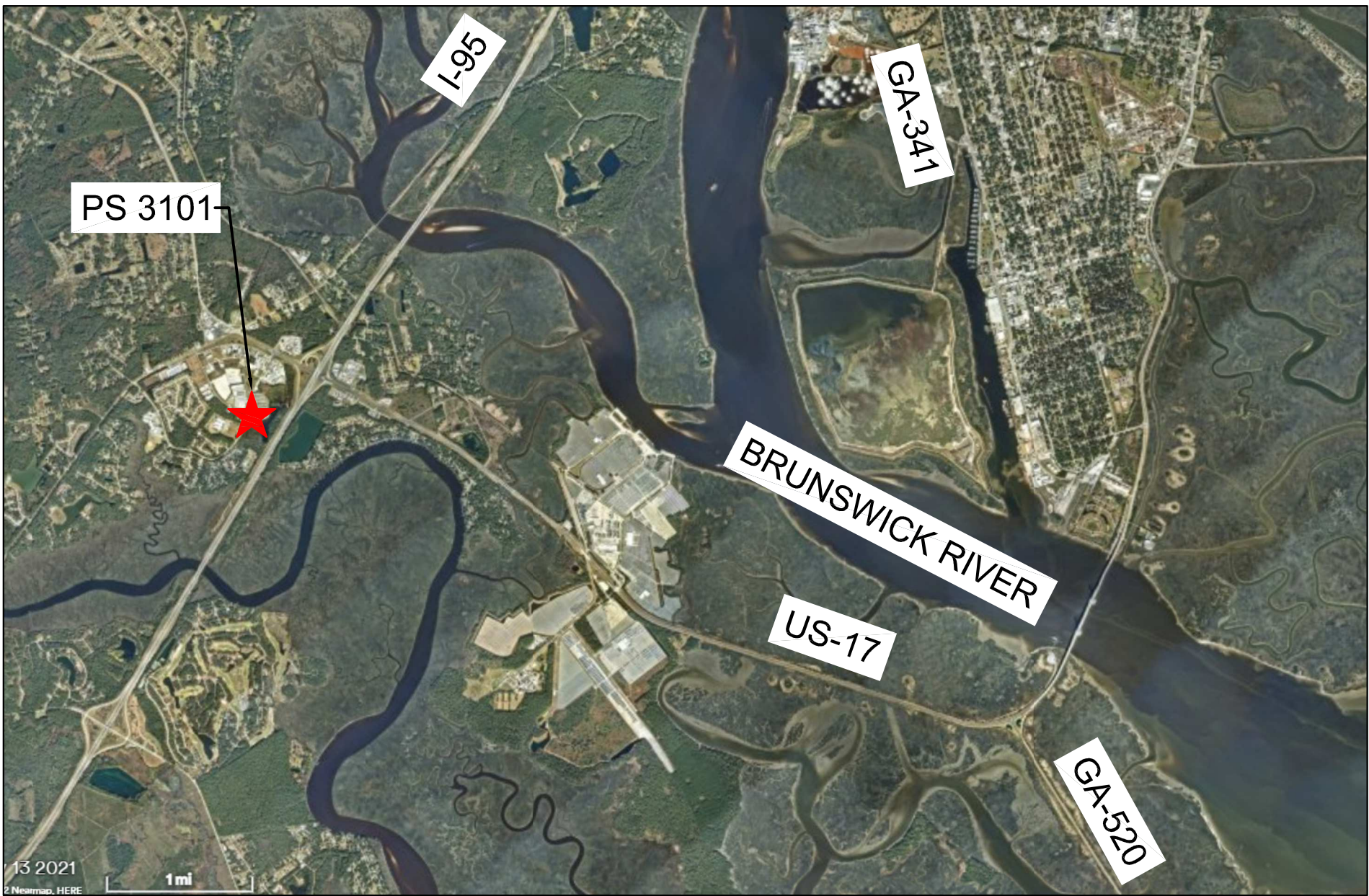
OWNER/APPLICANT:
BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION
1703 GLOUCESTER STREET
BRUNSWICK, GA 31520
PHONE: (912) 261-7100

SURVEYOR:
EMC ENGINEERING SERVICES, INC.
504 GLOUCESTER STREET
BRUNSWICK, GA 31520
(912) 265-7636

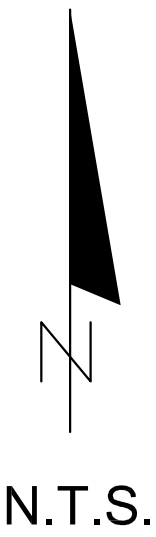
CIVIL/MECHANICAL ENGINEERING CONSULTANT:
KIMLEY-HORN AND ASSOCIATES, INC.
12740 GRAN BAY PARKWAY WEST, SUITE 2350
JACKSONVILLE, FLORIDA 32258
(904) 828-3900

ELECTRICAL/STRUCTURAL ENGINEERING CONSULTANT:
ENGINEERING DESIGN TECHNOLOGIES, INC.
1705 ENTERPRISE WAY, UNIT 200
MARIETTA, GA 30067
(770)988-0400

ARCHITECTURAL CONSULTANT:
ENGINEERING DESIGN TECHNOLOGIES-THORINGTON HINES ARCHITECTS, INC.
218 RANDOLPH AVENUE, SUITE A
HUNTSVILLE, AL 35801
(256) 883-8496



LOCATION MAP



PUMP STATION ADDRESSES:
PS 3101: 293 SOUTH PORT PARKWAY, BRUNSWICK, GA 31523



Kimley»Horn
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LICENSED PROFESSIONAL
JENNIFER THORINGTON-HINES
GEORGIA LICENSE NUMBER
RA019882
DATE:

COVER SHEET

ENGINEERING SERVICES FOR
PUMP STATION UPGRADES FOR
PS3101
PREPARED FOR
BGJWSC

SHEET NUMBER
101



ACI 530 - TABLE 3.1.2 MASONRY LEVEL B QUALITY ASSURANCE				
MINIMUM TESTS				
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5 B.1.b.3 FOR SELF-CONSOLIDATING GROUT				
VERIFICATION OF f'_{m} AND f'_{AAC} IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4 B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE				
MINIMUM SPECIAL INSPECTION				
INSPECTION TASK	FREQUENCY	(a)	REFERENCE FOR CRITERIA	
	CONTINUOUS	PERIODIC	TMS 402/ ACI 530/ ASCE 5	TMS 602/ ACI 530.1/ ASCE 6
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		X		ART. 1.5
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
a. PROPORTIONS OF SITE-PREPARED MORTAR		X		ART. 2.1 , 2.6 A
b. CONSTRUCTION OF MORTAR JOINTS		X		ART. 3.3 B
c. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		—		ART. 2.4 B , 2.4 H
d. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		X		ART. 3.4 , 3.6 A
e. PRESTRESSING TECHNIQUE		—		ART. 3.6 B
f. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	(b) —	(c) —		ART. 2.1 C
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
a. GROUT SPACE		X		ART. 3.2 D , 3.2 F
b. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		X	SEC. 6.1	ART. 2.4 , 3.4
c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		X	SEC. 6.1, 6.2 , 6.2.6 , 6.2.7	ART. 3.2 E , 3.4 , 3.6 A
d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		X		ART. 2.6 B , 2.4 G.1b
e. CONSTRUCTION OF MORTAR JOINTS		X		ART. 3.3 B
4. VERIFY DURING CONSTRUCTION:				
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		X		ART. 3.3 F
b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X	SEC. 1.2.1 (e) , 6.1.4.3 , 6.2.1	
c. WELDING OF REINFORCEMENT	—		SEC. 8.1.6.7.2 , 9.3.3.4 (c) , 11.3.3.4 (b)	
d. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40F (4.4C)) OR HOT WEATHER (TEMPERATURE ABOVE 90F (32.2C))		X		ART. 1.8 C , 1.8 D
e. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	—			ART. 3.6 B
f. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	—			ART. 3.5 , 3.6 C
g. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	(b) —	(c) —		ART. 3.3 B.9 , 3.3 F.1.b
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X		ART. 1.4 B.2.a.3 , 1.4 B.2.b.3 , 1.4 B.2.c.3 , 1.4 B.3 , 1.4 B.4

- (a) FREQUENCY REFERS TO THE FREQUENCY OF SPECIAL INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODIC DURING THE LISTED TASK, AS DEFINED IN THE TABLE.
- (b) REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.
- (c) REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCE STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	----	X	ACI 318: 3.5, 7.1-7.7	1910.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2B.	----	----	AWS D1.4 ACI 318: 3.5.2	----
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	----	----	ACI 318: 8.1.3,21.1.8	1908.5, 1909.1
4. INSPECTION OF ANCHORS POST INSTALLED IN HARDENED CONCRETE MEMBERS.	----	X	ACI 318: 3.8.6,8.1.3,21.1.8	1909.1
5. VERIFYING USE OF REQUIRED DESIGN MIX.	----	X	ACI 318: CH. 4, 5.2-5.4	1904.2,1910.2, 1910.3
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	----	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	----	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	----	X	ACI 318: 5.11-5.13	1910.9
9. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	----- -----	----	ACI 318: 18.20 ACI 318: 18.18.4	----
10. ERECTION OF PRECAST CONCRETE MEMBERS.	----	----	ACI 318: CH. 16	----
11. VERIFICATION OF 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.	----	----	ACI 318: 6.2	----
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	----	----	ACI 318: 6.1.1	----
NOTES: FOR SI: 1 INCH = 25.4 MM. A. SEE SPECIAL INSPECTION NOTES ON GENERAL NOTE SHEET FOR ADDITIONAL INFORMATION. B. WHERE APPLICABLE, SEE ALSO SECTION 1705.11, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.				

IBC - TABLE 1705.2.2 REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (IBC 2018)			
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCE STANDARD
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:			
a. IDENTIFICATION MARKINGS TO CONFIRM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	----	X	APPLICABLE ASTM MATERIAL STANDARDS
b. MANUFACTURER'S CERTIFICATE TEST REPORTS.	----	X	
2. INSPECTION OF WELDING:			
a . COLD-FORMED STEEL DECK:			
1) FLOOR AND ROOF DECK WELDS.	----	----	AWS D1.4 ACI 318: SECTION 3.5.2
b . REINFORCING STEEL:			
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	----	----	
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	----	----	
3) SHEAR REINFORCEMENT.		----	
4) OTHER REINFORCING STEEL.	----	----	
3. COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER.			
a . VERIFY TEMPORARY AND PERMANENT RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.	----	----	



TYPE		CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	—	X
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	—	X
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	—	X
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	—
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	—	X



BID DOCUMENTS

[illegible]



GEORGIA 811
Utilities Protection Center, Inc.

Know what's below.
Call before you dig.

ENGINEERING SERVICES FOR
PUMP STATION UPGRADES FOR
PS3101
PREPARED FOR
BGJWSC

BID DOCUMENTS

KHOSROW ABDI, P.E.

GEORGIA LICENSE NUMBER
021296

Kimley»Horn

PHONE: 904-828-3900
WWW.KIMLEY-HORN.COM REGISTRY NO. 696

[illegible]

GENERAL NOTES: (APPLICABLE TO ALL DRAWINGS)

DEMOLITION NOTES:

D2. THE CONTRACTOR SHALL COORDINATE WITH GEORGIA POWER FOR MODIFICATIONS AND/OR REMOVAL OF THE EXISTING SERVICES TO THE EXISTING PUMP STATION BUILDING.

N.T.S. NOT TO SCALE

SP SURGE PROTECTION DEVICE

 DRIVEN GROUND ROD LOCATION

\$ SWITCH, 48" AFF

\$3 THREE WAY SWITCH, 48" AFF

\$_{3P} 20A 120/277V, 3-WAY TOGGLE SWITCH WITH PILOT LIGHT, 48" AFF

☐ NEMA 4X STAINLESS STEEL DISCONNECT SWITCH.
RATINGS AS NOTED ON ONE-LINE.

 ALARM HORN. MOUNT 12' AFF ON BUILDING - NOTE G6,G7

 RED ALARM LIGHT. MOUNT 12' AFF ON BUILDING - NOTE G6

 MULTI-COLOR ALARM LIGHT ON BUILDING - NOTE G6.

PHOTO CELL: TORK MODEL 2107: 120/277V,
2000W/1800W/600W TUNGSTON/BALLAST/LED RATED

 WALL MOUNTED LED EMERGENCY BATTERY PACK

 WALL MOUNTED LED EMERGENCY EXIT LIGHT WITH TWO HEADS

EXP EXPLOSION PROOF: CLASS 1, DIV. 1

 GENERATOR RECEPTACLE - SEE 2/209, 2/308, AND 2/425

G3. PROVIDE A TRANS-SOCKET METER. EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF THE GEORGIA POWER BLUE BOOK, 2017 EDITION.

G4. ALL CONDUIT TERMINATIONS TO ELECTRICAL ENCLOSURES SHALL UTILIZE THREADED HUBS; LOCK NUTS AND BUSHINGS ARE NOT ACCEPTABLE. SEE SPECIFICATIONS FOR CONDUIT REQUIREMENTS.

G5. EXTEND UNSWITCHED AND ENERGIZED CONDUCTOR TO ALL EXIT SIGNS AND EMERGENCY BATTERY PACKS.

G6. PROVIDE MULTI-COLOR ALARM LIGHT AND RED LIGHT ON OUTSIDE OF EACH STATION. REFER TO SCADA SPEC ON SHEET 5/425. PROVIDE PLASTIC ENGRAVED SIGN WITH 1-1/2" LETTERING ADJACENT TO FRONT DOOR IDENTIFYING LIGHT STATUS.

G7. IF EITHER ALARM OCCURS, HORN TO SOUND UNTIL SILENCE SWITCH IS PUSHED

G8. THE CONTRACTOR SHALL FURNISH AND INSTALL ONE 4" SCH. 40 PVC CONDUIT FROM THE RELOCATED TRANSFORMER POLE TO THE UTILITY METER ON THE BUILDING. COORDINATE WITH EXISTING UNDERGROUND UTILITIES, THE OWNER AND GEORGIA POWER. THE CONDUIT SHALL BE INSTALLED 36" BELOW GRADE, MINIMUM. PROVIDE A DETECTABLE WARNING TAPE 12" ABOVE THE CONDUIT. THE CONDUIT SHALL TURN UP TO ABOVE GRADE AT THE BASE OF THE TRANSFORMER POLE.

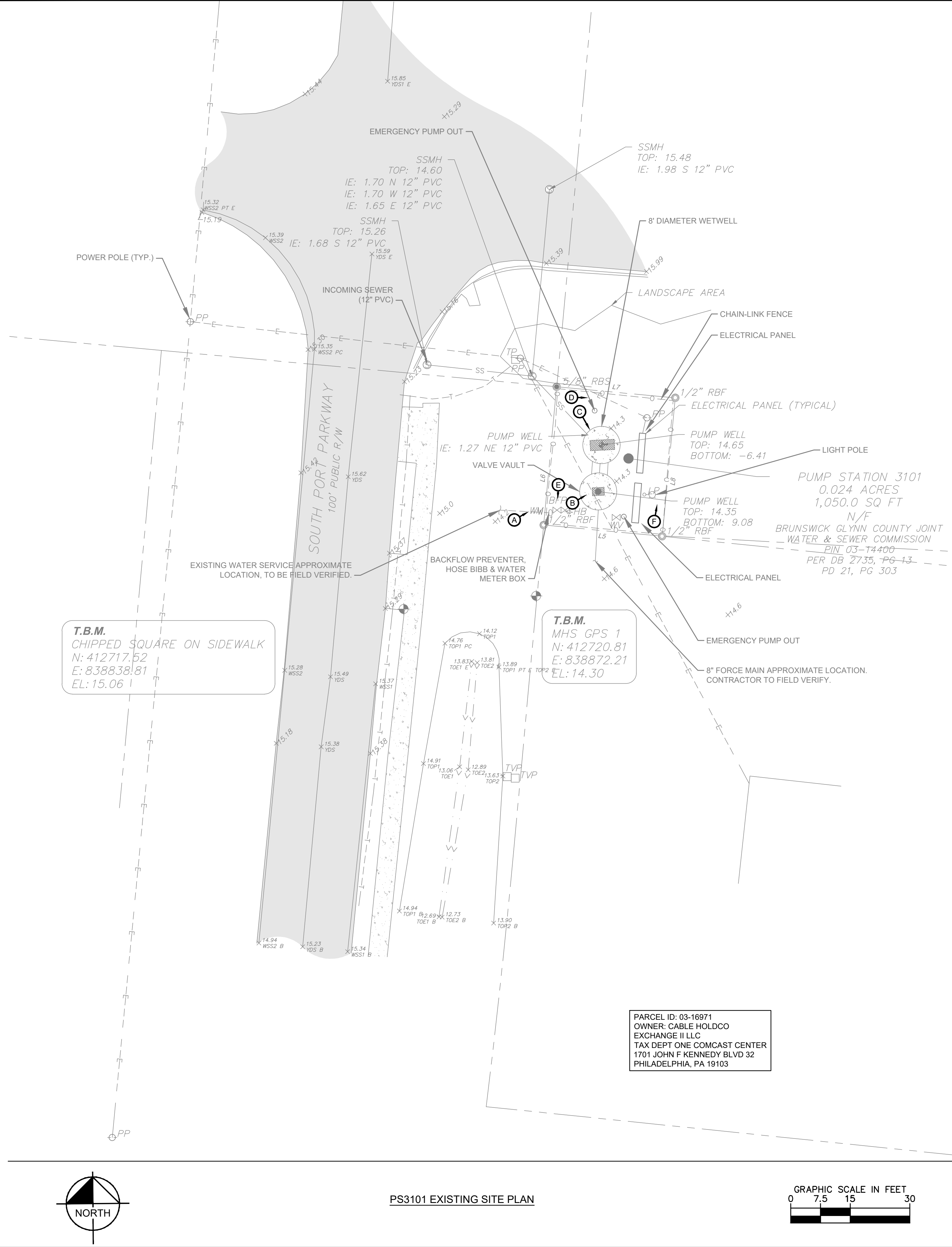
G9. CONNECT AIR FLOW FAN MONITORING SYSTEM, PROVIDED BY DIV. 15, AS REQUIRED. ONE PRESSURE SENSOR SHALL BE INSTALLED IN THE EXHAUST FAN DUCT, THE OTHER SENSOR SHALL BE INSTALLED ADJACENT TO THE MONITOR PANEL. EXTEND ALARM CONDUCTORS TO SCADA PANEL. LIKEWISE, ONE SENSOR FOR THE SUPPLY FAN SHALL BE INSTALLED IN THE DUCT AND THE OTHER ADJACENT TO THE MONITOR PANEL.

G10. EXTEND THROUGH 3-POSITION SWITCH ADJACENT TO MAIN DOOR.

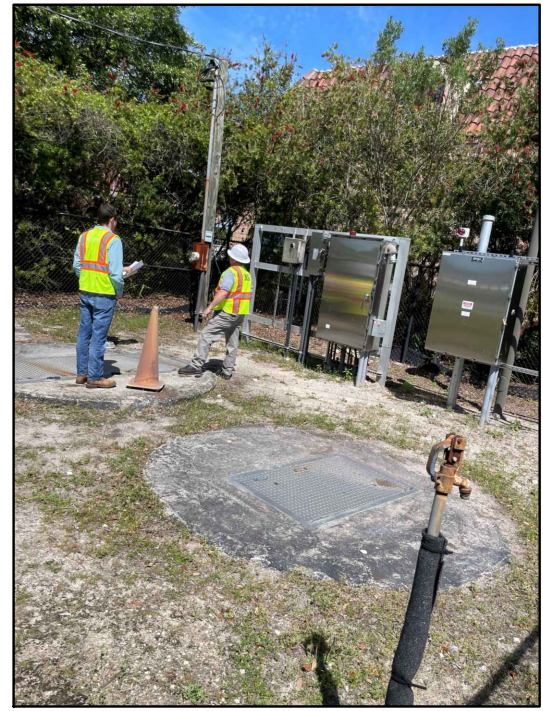
G11. EXTEND PHOTO CONTROL TO 3-POSITION SWITCH. CONNECT TO UP/PHOTO POSITION.

G12. 3-POSITION, MAINTAINED CONTACT, 20A/277V. HUBBELL CAT. NO. HBL1385
 LABEL SWITCH POSITIONS: UP-PHOTO, CENTER-OFF, DOWN-MANUAL/ON.

Plotted: BivEadie, Alex. Sheet: Set: BG: WSC. Layout: 201_PS3101_EXISTING_SITE_PLAN_May_30_2023_10:56:08am. K:\JAX_WaterResources\045709000 - Brunswick Pump Station Upgrades\201_PS3101_EXISTING_SITE_PLAN.dwg
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A



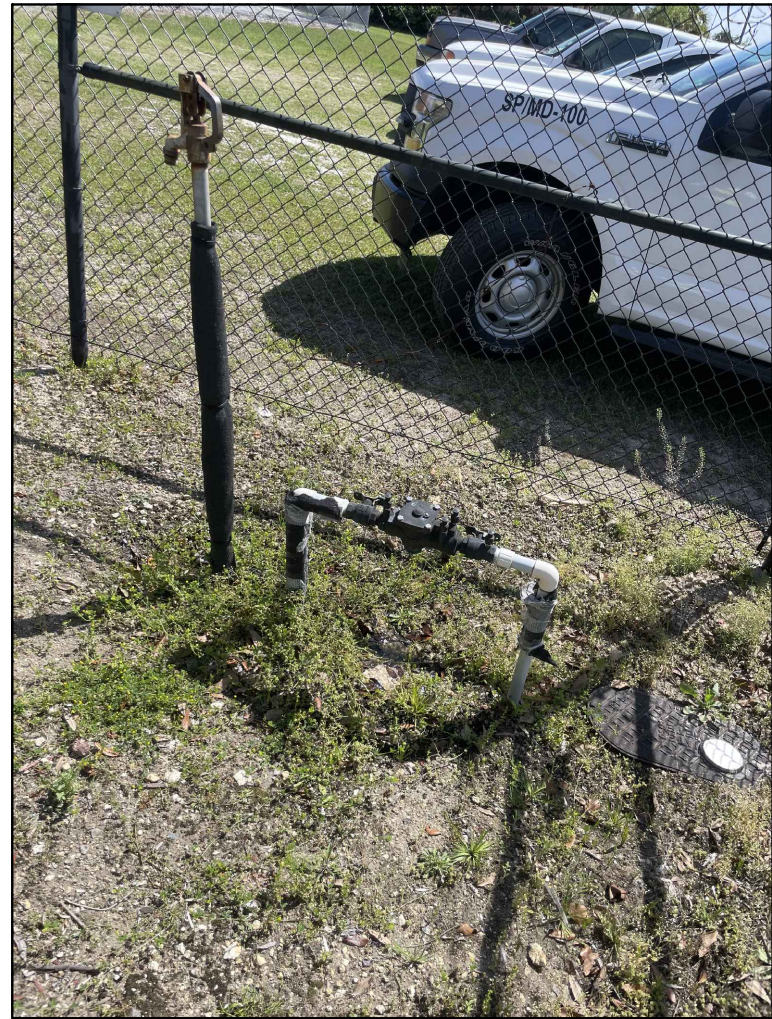
B



C



D



E



F

PS3101 EXISTING CONDITION

NOTES:

- 1) LIFT STATION IS LOCATED AT 293 SOUTH PORT PARKWAY, BRUNSWICK, GEORGIA 31523.
- 2) SURVEY PROVIDED BY EMC ENGINEERING SERVICES, INC. DATED MAY 18, 2022. HORIZONTAL DATUM IS GEORGIA STATE PLANE COORDINATE SYSTEM OF 1985, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83). VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- 3) ALL DIMENSIONS ARE APPROXIMATE AND TO BE FIELD VERIFIED.
- 4) EXISTING WATER SERVICE SIZE, LOCATION, AND MATERIAL TO BE FIELD VERIFIED.
- 5) EXISTING FORCE MAIN SIZE, LOCATION, AND MATERIAL TO BE FIELD VERIFIED.
- 6) CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION AND ORDERING EQUIPMENT. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCIES.
- 7) CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE SCHEDULE AS PART OF HIS SUBMITTALS FOR REVIEW AND APPROVAL FROM OWNER/ENGINEER TO MINIMIZE FLOW INTERRUPTIONS.
- 8) THE EXISTING STORMWATER DRAINAGE SYSTEM SHALL REMAIN FUNCTIONAL AND BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION.
- 9) GEORGIA 811 DESIGN TICKET #220624-003735 RESPONDENT CONTACT INFORMATION IS LISTED BELOW.

UTILITY CONTACT LISTING

ELECTRIC & NATURAL GAS:

ATLANTA GAS LIGHT
10 PEACHTREE PL NE
ATLANTA, GA 30309
PHONE: (800) 427-5463

TELECOMMUNICATIONS:

ALMA TELEPHONE COMPANY
405 W 11TH ST
ALMA, GA 31510
PHONE: (912) 632-8603

TELECOMMUNICATIONS:

AT&T
1100 GLYNN ISLE
BRUNSWICK, GA 31525
(912) 324-2298

MUNICIPAL UTILITIES:

BRUNSWICK GLYNN COUNTY JOINT WATER & SEWER
1703 GLOUCESTER ST
BRUNSWICK, GA 31520
PHONE: (912) 261-7100

WATER:

GEORGIA POWER COMPANY
28 ABERCORN ST.
SAVANNAH, GA 31401
PHONE: (912) 352-9339

MUNICIPAL UTILITIES:

GLYNN COUNTY PUBLIC WORKS
4145 NORWICH ST. EXT
BRUNSWICK, GA 31520
(912) 554-7111

MUNICIPAL UTILITIES:

GLYNN COUNTY BOARD OF EDUCATION
1313 EGMONT ST
BRUNSWICK, GA 31520
PHONE: (912) 267-4100

ELECTRIC & NATURAL GAS:

GEORGIA POWER COMPANY
800 GLOUCESTER ST
BRUNSWICK, GA 31520
PHONE: (888) 891-0938

EXISTING CONDITIONS TABLE	
WET WELL DIAMETER	8 FT
PUMPS (QUANTITY)	2 EXISTING, 1 FUTURE NOT INSTALLED
PUMP MANUFACTURER/MODEL	FLYGT/CP3152.181, 20 H.P. (454 IMPELLER)
BASIS OF DESIGN CAPACITY	809 GPM @ 64 TDH
PUMP DISCHARGE ASSEMBLY (QUANTITY)	3



BID DOCUMENTS

PS3101 EXISTING
SITE PLAN

PUMP STATION
UPGRADES PS3101
PREPARED FOR
BGJWSC

SHEET NUMBER
201

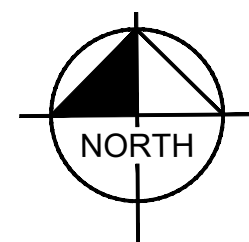
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12740 GRAN BAY PARKWAY WEST, SUITE 2350
JACKSONVILLE, FLORIDA 32256
PHONE: 904-628-3900
WWW.KIMLEY-HORN.COM

LICENSED PROFESSIONAL
JOSHUA S. PETERSON, P.E.
GEORGIA LICENSE NUMBER
036753

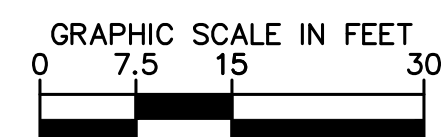
KHA PROJECT
045709000
DATE
MAY 2023
SCALE
AS SHOWN
DESIGNED BY
JSP
DRAWN BY
ACE
CHECKED BY
KBS

BY
DATE
REVISIONS
No.



PS3101 ELECTRICAL DEMOLITION SITE PLAN

SCALE: 1" = 10'



+/+ +/+ +/+ +/+ +/+

EXISTING ELECTRICAL TO BE DEMOLISHED



03/06/2023

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12740 GRAN BAY PARKWAY WEST, SUITE 2350
JACKSONVILLE, FLORIDA 32258
PHONE: 904-828-3900
WWW.KIMLEY-HORN.COM REGISTRY NO. 696

KHOSROW ABDI, P.E.

GEORGIA LICENSE NUMBER
021296

DATE:

DATE _____

SCALE: AS SHOWN

DESIGNED BY: KA

CHECKED BY: KA

PS3101
ELECTRICAL
DEMOLITION PLAN

ENGINEERING SERVICES FOR
PUMP STATION UPGRADES FOR
PS3101
PREPARED FOR
BGJWSC

SHEET NUMBER

206

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.



BID DOCUMENTS

[illegible]

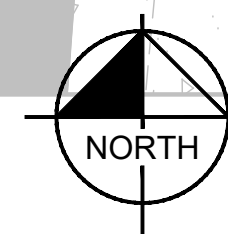
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JACKSONVILLE, FLORIDA 32258
PHONE: 904-828-3900
WWW.KIMLEY-HORN.COM REGISTRY NO. 696

DATE:

CHECKED BY: KA

ENGINEERING SERVICES FOR
PUMP STATION UPGRADES FOR
PS3101
PREPARED FOR
BGJWSC

BID DOCUMENTS



GRAPHIC SCALE IN FEET



A horizontal scale bar with four segments. The first segment (0 to 2.5) is white, the second (2.5 to 5) is black, the third (5 to 7.5) is white, and the fourth (7.5 to 10) is black. The numbers 0, 2.5, 5, and 10 are placed above the corresponding tick marks.

1. SCADA SYSTEM IS EXISTING TO BE REUSED AND REWIRED.
2. SYSTEM IS PROVIDED BY ELECTRIC MACHINE CONTROL, INC. (EMC), CONTACT JAMES DENTON (205) 661-3998, CELL (205) 910-8348. EMC SHALL ALSO PROVIDE ALL INSTRUMENTATION, AUTOMATIC TRANSFER SWITCH, AND VFDS.
3. PROVIDE ALL FIELD WIRING IN CONDUITS AS REQUIRED. COORDINATE ALL CONNECTIONS, ALARMS AND CONTROL WITH EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF THE SPECIFICATIONS.
4. WETWELL LEVEL SENSOR SHALL BE RADAR SENSOR RATED FOR CLASS I, DIV I, LOCATION MODEL C21 VEGA WITH SENSOR CABLE EXTENDING CONTINUOUS TO SCADA PANEL. MOUNT SENSOR ON STAINLESS STEEL BRACKET. CALIBRATE IN FIELD.
5. FLOATS SHL BE MEASUREMENT TYPE WITH CABLES TESTED CONTINUOUS TO FIELD JUNCTION BOX, RATED CLASS I, DIV I, LOCATION. MOUNT ON STAINLESS STEEL BRACKET. SET ELEVATION IN FIELD.
6. REUSE EXISTING NEW HORN AND LIGHT IF WORKING AND NOT DAMAGED. REPLACE WITH NEW TO MATCH EXISTING IF DAMAGED.

1. ALL DIMENSIONS ARE APPROXIMATE AND TO BE FIELD VERIFIED.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE ACCESS TO AREAS OUTSIDE OF BGJWSC EASEMENTS, AS REQUIRED, FOR LAY DOWN, STAGING AND STORAGE.
3. CONTRACTOR SHALL PROVIDE SUE LEVEL B LOCATES FOR ALL UTILITIES WITHIN PUMP STATION SITE. CONTRACTOR SHALL PROVIDE SUE LEVEL A LOCATES AT ALL TIE-IN CONNECTIONS AND AT ANY POTENTIAL CONFLICT LOCATIONS.

- BOND SUPPORTING METAL POSTS OF THE PERIMETER FENCE AT THE BASE OF EACH POST WITH #6 AWG BARE COPPER CONDUCTOR INSTALLED UNDERGROUND IN A 1" PVC CONDUIT AND CONNECT TO SERVICE DISCONNECT GROUNDING ELECTRODE CONDUCTOR. USE MECHANICAL CONNECTORS TO BOND GROUNDING CONDUCTOR TO METAL POSTS.

EXISTING UTILITY POWER POLE

NEW UNDERGROUND UTILITY SERVICE CONDUCTORS.
CONTRACTOR TO COORDINATE WITH GA POWER FOR
FINAL UNDERGROUND SERVICE CONDUCTOR ROUTING
AND POLE LOCATION PRIOR TO ROUGHING. _____

NEW SERVICE POLE AND SERVICE
ENTRANCE FUSED DISCONNECT (BY
BGJWSC) MIN. 5 FEET AWAY FROM
UTILITY POLE

NEW UNDERGROUND SERVICE CONDUCTORS

UNDERGROUND SERVICE FEEDER TO
BE INSTALLED WITHIN TWO (2) FEET
FROM THE SITE BOUNDARY TO CLEAR
THE FUTURE ODOR CONTROL SYSTEM
CONCRETE PAD.

— FUTURE ODOR CONTROL AREA

NEW STAINLESS STEEL PUMP DISCONNECTS AND AIR BREAK BOX. SEE SHEET 208 FOR DETAILS. MOUNT EQUIPMENT RACK PARALLEL TO BOUNDARY FENCE AND ELECTRICAL EQUIPMENT RACKS.

— PROVIDE AND INSTALL A NEMA 4X HAND-OFF-AUTO SWITCH ON EQUIPMENT RACKS TO CONTROL LIGHT FIXTURES. MOUNT A NEMA 4X PHOTOCELL ABOVE THE CANOPY AIMING TOWARDS THE NORTH SKY. INSTALL #12 AWG CONDUCTORS IN A 3/4" CONDUIT TO CONNECT THE PHOTOCELL TO LIGHT SWITCH.

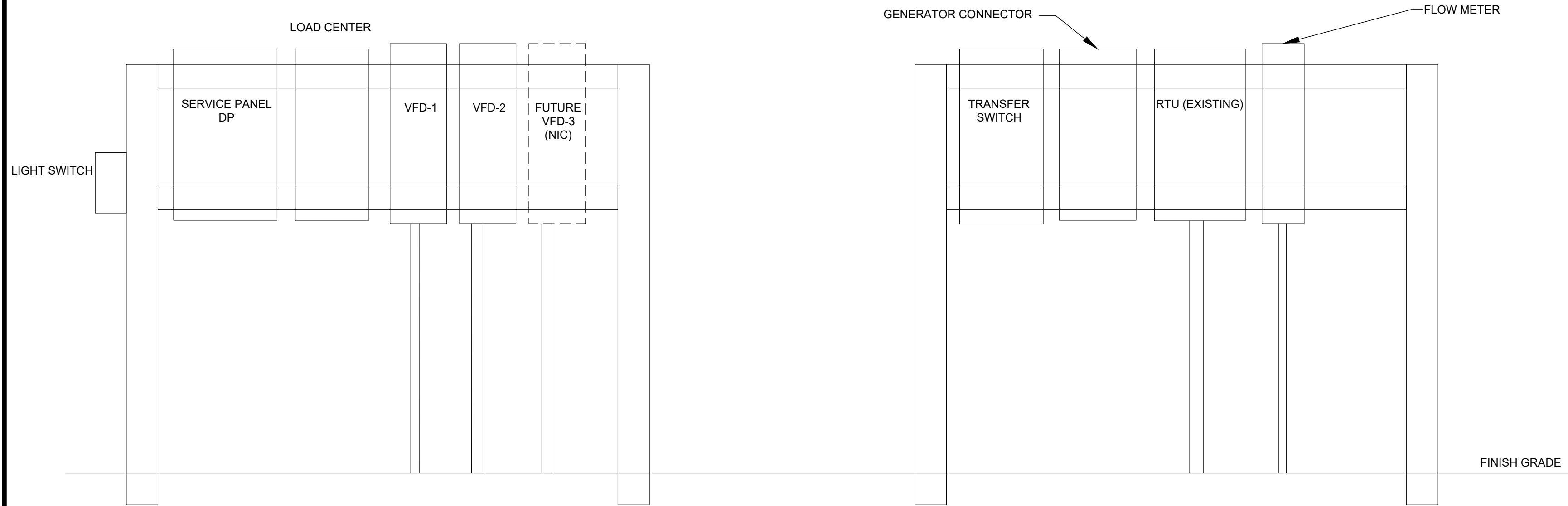
4 FOOT LONG LENSED AND GASKETED VAPOURTIGHT
LED LIGHT FIXTURES (2) 6500K, 3500 LUMENS, NEMA 4X
HOUSING, MOUNTED UNDER CANOPY, 277 VOLT; EQUAL
TO LITHONIA - CSVT L48 AL03 MYOLT SWW3 80CRI (65K)

NEW PUMP CONTROL PANELS TO BE INSTALLED. REUSE EXISTING RTU AND THE EQUIPMENT RACKS.

NEW ROOF TO BE CONSTRUCTED OVER EXISTING, EXTENDED CONTROL PANEL RACK. REFER TO NEW ROOF DETAIL ON ARCH. PLANS. BOND NEW ROOF STRUCTURE AND EQUIPMENT RACK METAL POSTS WITH NO. 6 AWG BARE COPPER GROUND CONDUCTOR TO ELECTRICAL DISTRIBUTION EQUIPMENT GROUND LUG.

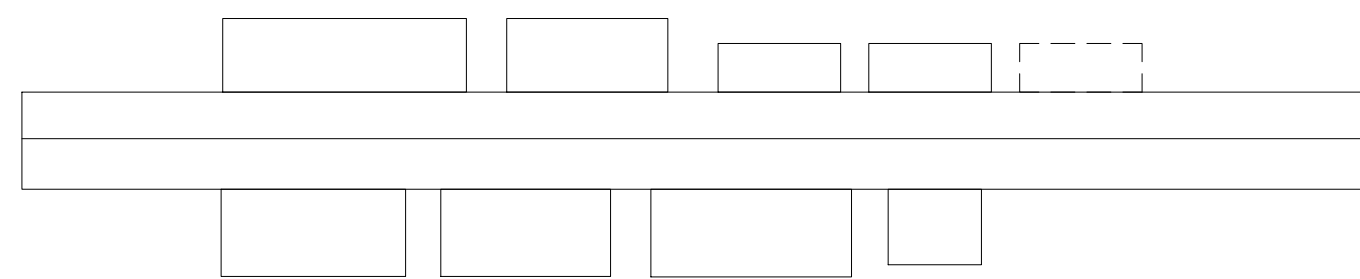
— GROUNDING TRIPOD SEE
DETAILS. CONNECT TO DP
GROUND BUS.





EQUIPMENT RACK - FRONT ELEVATION

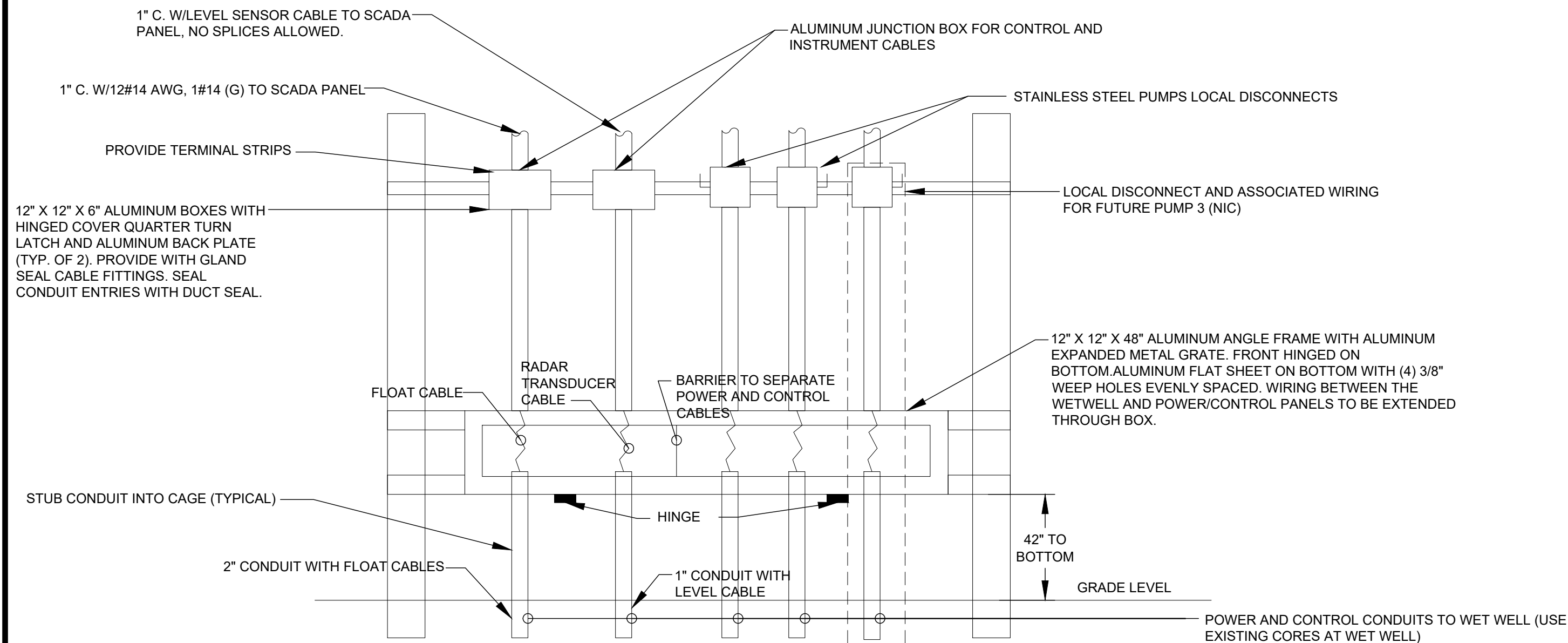
EQUIPMENT RACK - BACK ELEVATION



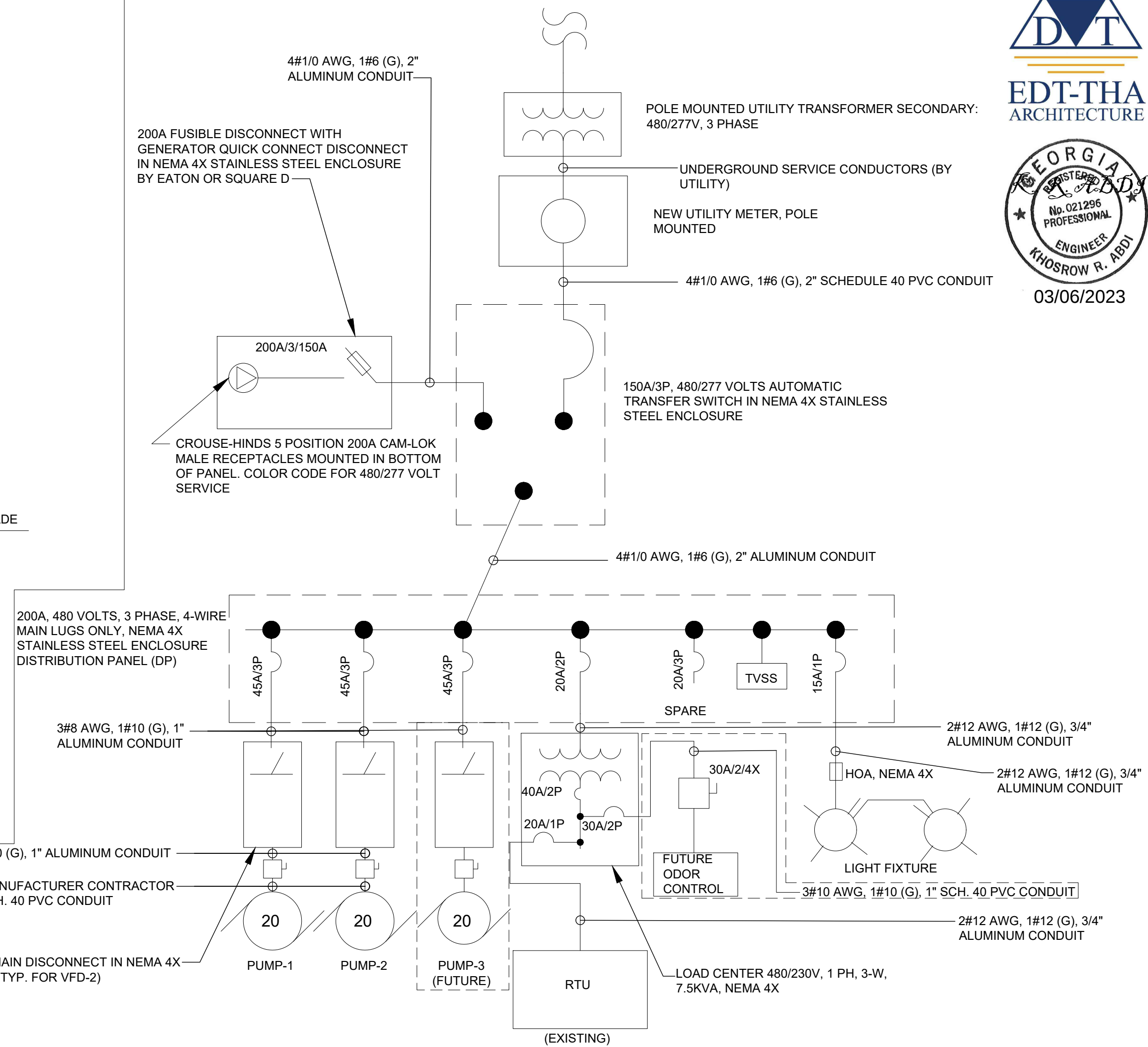
EQUIPMENT RACK - TOP PLAN

1 PUMP STATION PS3101 - ELECTRICAL EQUIPMENT RACK ELEVATION
SCALE: N.T.S.

NOTES:
EXISTING EQUIPMENT RACK TO BE REMOVED AND RELOCATED WHERE SHOWN ON CIVIL SITE PLAN.



PUMP STATION PS3101 - RACK MOUNTED AIR BREAK BOX FOR LOCAL PUMPS DISCONNECTS AND JUNCTION BOXES FOR FLOAT SWITCHES AND RADAR LEVEL TRANSDUCER



2 PUMP STATION PS3101 - SINGLE LINE DIAGRAM
SCALE: N.T.S.



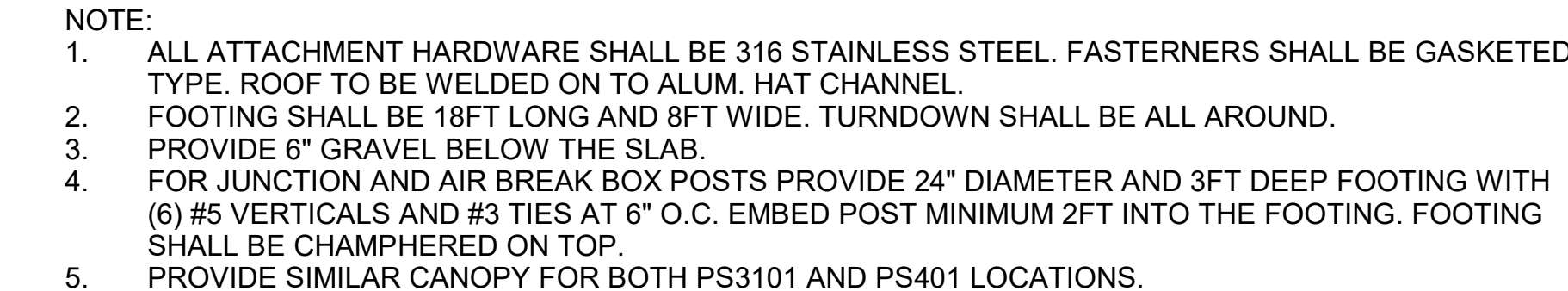
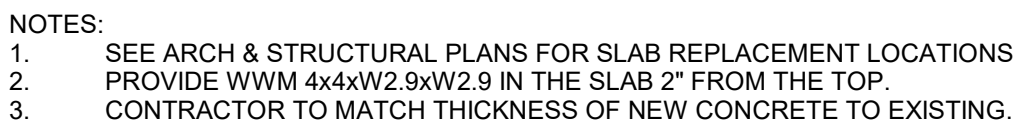
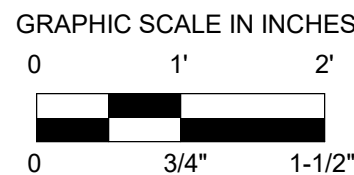
No.	REVISIONS	DATE	BY

Kimley»Horn
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REGISTRY NO. 696

LICENSED PROFESSIONAL:	KIMLEY-HORN AND ASSOCIATES, INC.
DATE:	MARCH 2023
SCALE:	AS SHOWN
DESIGNED BY:	KA
DRAWN BY:	TF
CHECKED BY:	KA

**PS3101
ELECTRICAL
DIAGRAMS AND
DETAILS**

ENGINEERING SERVICES FOR
PUMP STATION UPGRADES FOR
PS3101
PREPARED FOR
BGJWSC


$$3/4" = 1'-0"$$

$$3/4" = 1'-0"$$
