



SHEET NO.	
101	C
102	G
103	S
104	S
105	El
201	P
202	P
206	P
207	P
208	P
501	EF
502	EF
507	М



N.T.S.



DRAWING INDEX
SHEET TITLE
VER SHEET
IERAL NOTES
RUCTURAL GENERAL NOTES
RUCTURAL SPECIAL INSTRUCTIONS
CTRICAL SYMBOLS LEGEND, ABBREVIATIONS & SCHEDULES
3101 EXISTING SITE PLAN
3101 EROSION CONTROL & SEDIMENT PLAN
3101 ELECTRICAL DEMOLITION PLAN
3101 ELECTRICAL SITE PLAN
3101 ELECTRICAL DIAGRAMS AND DETAILS
DSION CONTROL & SEDIMENT PLAN DETAILS
DSION CONTROL & SEDIMENT PLAN DETAILS
C. TYP. STRUCTURAL DETAILS AND SECTIONS



JENNIFER THORINGTON-HINES	
CALL 2 BUSINESS DAYS BEFORE YOU DIG	
IT'S THE LAW! DIAL 811 Call before you dig.	
SUNSHINE STATE ONE CALL OF FLORIDA INC 🧱 🔪	

s, Inc.	GE	NERAL NOTES:
and Associate	1.	ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL RELATIVE BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION GUIDELINES, STANDARDS AND THE ENVIRONMENTAL PROTECTION DIVISION OF GEORGIA REGULATIONS, EXCEPT AS MODIFIED HEREIN.
imley-Horn	2.	CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE WORK.
ut liability to K	3.	CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION OF THE SITE PRIOR TO THE BEGINNING OF THE WORK. CONTRACTOR SHALL INFORM THE OWNER AT LEAST 48 HOURS PRIOR TO THE SCHEDULED INSPECTION.
es, Inc. shall be witho	4.	THE LOCATION OF UTILITIES SHOWN ON THE DRAWINGS ARE FROM THE SURVEYS PROVIDED BY EMC ENGINEERING SERVICES, INC. DATED MAY 12, 2022 AND MAY 18, 2022. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM, IN THE FIELD, THE LOCATION AND ELEVATION OF ALL UTILITIES WITHIN PROJECT LIMITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SHOULD CONDITIONS VARY FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD PRIOR TO CONTINUING CONSTRUCTION
nd Associat	5.	CONTRACTOR SHALL LOCATE, VERIFY AND IDENTIFY ALL EXISTING UNDERGROUND UTILITIES SHOWN, OR NOT SHOWN, ON THE PLANS PRIOR TO ANY EXCAVATING ACTIVITIES.
vimley-Horn ar	6.	CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT EXISTING AND NEWLY CONSTRUCTED UTILITIES DURING THE CONSTRUCTION. SHOULD ANY UTILITY LINE OR COMPONENT BECOME DAMAGED OR REQUIRE RELOCATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER.
ion by h	7.	CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THEIR OPERATIONS.
on and adaptat	8.	CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION WITH OTHER WORK WHICH MAY BE ONGOING ADJACENT TO, OR AFFECTING, THIS CONSTRUCTION. CONTRACTOR SHALL COOPERATE WITH OTHER CONTRACTORS AND ALL AFFECTED UTILITY COMPANIES.
en authorizatio	9.	CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY COMPANIES, THE COMPANY REPRESENTATIVE 48 HOURS PRIOR TO THE INITIATING OF ANY EXCAVATION ACTIVITIES, OR AS SPECIFIED BY THE UTILITY COMPANY AND ANY PERMITS REQUIRED FOR THE WORK.
ment without writt	10.	CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL/DISPOSAL OF ANY UNSUITABLE MATERIAL FROM THE CONSTRUCTION OPERATION, FURNISHING AND COMPACTING SUITABLE REPLACEMENT BACKFILL MATERIAL. DISPOSAL OF UNSUITABLE MATERIAL SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
e on this docu	11.	THE EXISTING STORMWATER DRAINAGE SYSTEM SHALL REMAIN FUNCTIONAL AND BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT CONTROL AND SHALL SUBMIT THE EROSION AND SEDIMENT CONTROL PLAN TO THE ENGINEER.
d improper relianc	12.	CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE EROSION AND TURBIDITY CONTROLS IN ACCORDANCE WITH GEORGIA ENVIRONMENTAL PROTECTION DIVISION DURING AND FOLLOWING CONSTRUCTION, UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED TO AVOID ADVERSE ENVIRONMENTAL IMPACTS TO OFF-SITE PROPERTY AND DRAINAGE SYSTEMS.
d. Reuse of an	13.	CONSTRUCTION WARNING SIGNS SHALL BE MOUNTED AND ERECTED BEFORE CONSTRUCTION CAN COMMENCE. THESE, AND ALL TRAFFIC CONTROL DEVICES, SHALL FOLLOW THE STANDARDS SET FORTH BY THE MANUAL OF UNIFORM TRAFFIC DEVICES AND GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) STANDARD INDEX.
it was prepared	14.	CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARLY IDENTIFYING THE AREA OF CONSTRUCTION AND SAFELY ROUTING ALL VEHICULAR AND PEDESTRIAN TRAFFIC AROUND THE CONSTRUCTION AREA. THE CONSTRUCTION AREA SHALL BE CLEARLY MARKED AT ALL TIMES.
for which	15.	CONTRACTOR SHALL SEED AND MULCH ALL AREAS DISTURBED BY THE CONSTRUCTION ACCORDING TO LOCAL REGULATIONS. USE SOD ON ANY AREAS WITH SLOPES GREATER THAN 6:1.
ific purpose and client	16.	CONTRACTOR SHALL MAINTAIN "AS-BUILT" INFORMATION ON A REGULAR BASIS. CONTRACTOR SHALL EMPLOY THE SERVICES OF A SURVEYOR REGISTERED IN THE STATE OF GEORGIA TO DETERMINE ALL "AS-BUILT" INFORMATION. WITHIN 14 DAYS OF THE COMPLETION OF THE WORK, CONTRACTOR SHALL PROVIDE SIGNED AND SEALED COPIES AND THE DIGITAL CAD FILE OF THE "AS-BUILT" DRAWINGS AND SUPPORTING SURVEY RECORDS TO THE COMPANY REPRESENTATIVE. CAD FILES SHALL BE IN THE AUTOCAD FORMAT.
the speci	17.	CONTRACTOR SHALL HAVE RED LINED AS-BUILT PLANS AND SPECIFICATIONS AVAILABLE ON SITE DURING CONSTRUCTION. RED LINE DRAWINGS SHALL BE UPDATED DAILY.
ed only for	18.	IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PRODUCE, SUBMIT, AND OBTAIN APPROVAL OF THE REPRODUCIBLE AS-BUILT DRAWINGS FOR ANY JURISDICTIONAL AGENCIES AS MAY BE REQUIRED.
u, zuzu ce, is intend	19.	CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF 48 HOURS NOTICE OF ALL MEETINGS OR TESTING MEASURES REQUIRED TO BE WITNESSED BY THE ENGINEER ACTIVITIES RELATED TO THE WORK.
nt of servic	20.	CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF THREE (3) BUSINESS DAYS NOTICE FOR ANY FINAL INSPECTION. THE ENGINEER WILL SCHEDULE INSPECTIONS FOR SUBSTANTIAL AND FINAL COMPLETION.
n instrumer	21.	A BUILDING PERMIT MUST BE OBTAINED FROM THE GLYNN COUNTY BUILDING DEPARTMENT PRIOR TO COMMENCEMENT OF ANY WORK AT PS3101.
erein, as a	22.	A RIGHT OF WAY PERMIT MUST BE OBTAINED FROM GLYNN COUNTY PRIOR TO COMMENCEMENT OF ANY WORK WITHIN GLYNN COUNTY RIGHT OF WAY.
uyuut. TU. presented h	23.	ALL CONSTRUCTION WORK WITHIN GLYNN COUNTY SHALL BE IN ACCORDANCE WITH ORDINANCE CHAPTER 2-9 ARTICLE 2 NOISE CONTROL SECTION 16-57.
d designs p	24.	A BUILDING PERMIT MUST BE OBTAINED FROM THE CITY OF BRUNSWICK PLANNING, DEVELOPMENT AND CODES DEPARTMENT PRIOR TO COMMENCEMENT OF ANY WORK AT PS3101.
oncepts an	25.	A RIGHT OF WAY PERMIT MUST BE OBTAINED FROM THE CITY OF BRUNSWICK PRIOR TO COMMENCEMENT OF ANY WORK WITHIN CITY OF BRUNSWICK RIGHT OF WAY.
with the c	26.	ALL CONSTRUCTION WORK WITHIN THE CITY OF BRUNSWICK SHALL BE IN ACCORDANCE WITH ORDINANCE DIVISION 3 NOISE CONTROL SECTION 16-57.
t, together	27.	CONTRACTOR RESPONSIBLE TO SECURE ACCESS TO AREAS OUTSIDE OF BGJWSC EASEMENTS AS REQUIRED FOR STAGING AND STORAGE.
is documen	28.	ALL PROPOSED BELOW GRADE PIPING TO BE RESTRAINED JOINT. FOR SPECIFIC RESTRAINED JOINT REQUIREMENTS AND DETAILS SEE BGJWSC "STANDARDS FOR WATER AND SEWER DESIGN AND CONSTRUCTION."

JWSC WATER & SEWER NOTES:

- 1. ALL WATER AND SEWER CONSTRUCTION SHALL CONFORM WITH THE REQUIREMENTS OF THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION. IN THE EVENT OF A DISCREPANCY BETWEEN THESE CONSTRUCTION PLANS AND THE AFOREMENTIONED STANDARDS AND SPECIFICATIONS, THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS SHALL TAKE PRECEDENCE UNLESS THE DIVISION HAS BEEN APPROVED IN WRITING BY THE JWSC.
- 2. THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER LINES, SEWER LINES, AND STORM DRAINS SHALL CONFORM TO THE LATEST GEORGIA EPD REQUIREMENTS.
- 3. A MINIMUM DISTANCE OF 20' OR TWO TIMES THE DEPTH OF THE MAIN, WHICHEVER IS GREATER, SHALL BE MAINTAINED FROM ALL BUILDINGS. FOUNDATIONS AND THE TOP OF BANK OF ALL PONDS. ANY DEVIATION FROM THIS REQUIREMENT MUST BE APPROVED IN WRITING BY THE JWSC.
- 4. PRESSURE AND LEAKAGE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE JWSC.
- 5. AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF THE WORK, THE CONTRACTOR SHALL NOTIFY THE UTILITIES PROTECTION CENTER (UPC) AT 1-800-282-7411 TO REQUEST UNDERGROUND UTILITY LOCATE SERVICE.
- 6. ALL GRAVITY SEWERS SHALL BE LOW PRESSURE AIR TESTED IN ACCORDANCE WITH JWSC STANDARDS 3.6.9.
- 7. ALL SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH JWSC STANDARDS 3.6.9.3.
- 8. ALL PORTIONS OF NEW SEWAGE FORCE MAIN SHALL UNDERGO A HYDROSTATIC TEST PER JWSC STANDARDS 4.7.7.
- 9. SEE JWSC STANDARD 2.5.3.3 FOR MINIMUM PIPE COVER REQUIREMENTS.
- 10. RECORD DRAWINGS MUST BE PROVIDED TO JWSC FOR ALL WATER AND SEWER INFRASTRUCTURE IN ACCORDANCE WITH JWSC RECORD DRAWINGS STANDARDS.
- 11. THE CONTRACTOR SHALL IMMEDIATELY REPAIR EXISTING WATER & SEWER SERVICES DAMAGED DURING CONSTRUCTION AT THE CONTRACTORS EXPENSE.
- 12. BYPASS PUMPING UNIT SHALL BE PRESENT AND READY TO OPERATE ON-SITE AT ALL TIMES WHILE IMPROVEMENT WORK IS IN PROGRESS. ALL TEMPORARY BYPASS PUMPING REQUIRED FOR REHAB WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THESE PUMPING REQUIREMENTS. ALL LABOR, DESIGN, EQUIPMENT, MATERIALS, RENTAL FEES, TEMPORARY PIPING AND INCIDENTALS SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION TO THE CONTRACT.
- 13. THE BGJWSC RESERVES FIRST RIGHT OF SALVAGE FOR ALL EQUIPMENT REMOVAL.
- 14. CONTRACTOR MUST SUBMIT INDIVIDUAL BYPASS PLANS FOR EACH PUMP STATION (PS3101) TO BGJWSC FOR **REVIEW AND APPROVAL.**

NORTH
NOTE (TYP
NOTE

	_ SECTION
A	DETAIL
M-2	SCALE:
	AWING W TAIL IS R

	MEC
년고	FLAI
₩ _₽	SOL
	BALI
	GAT
	PLU



GENERAL

- 1. THE STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2018 EDITION
- 2. ALL REFERENCES AND ASTM SPECIFICATIONS NOTED ON THESE DRAWINGS PERTAIN TO THE LATEST EDITIONS.
- 3. THE STRUCTURAL DRAWINGS ARE NOT STAND ALONE DOCUMENTS. THEY SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL. CIVIL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- 4. THE CONTRACTOR SHALL COORDINATE THE SIZES AND LOCATIONS OF ALL PENETRATIONS WITH THE ARCHITECTURAL. MECHANICAL. AND PLUMBING DRAWINGS.
- 5. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE A METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEANS NECESSARY TO PROTECT THE STRUCTURE AND PERSONNEL DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT LIMITED TO TEMPORARY BRACING, SHORING, FORMING, SCAFFOLDING, PLANKING, AND SAFETY NETS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES.

6. DRAWINGS SHALL NOT BE SCALED.

- 7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO PROCEEDING WITH WORK.CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER AND ARCHITECT BY THE RFI SYSTEM OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION, ALONG WITH A RECOMMENDED SOLUTION.
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- WHERE A SECTION OR DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY TO ALL LIKE AND SIMILAR CONDITIONS.
- 10 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAIL OF SIMPLE (SHEAR ONLY CONNECTIONS AND MOMENT CONNECTIONS NOT SHOWN ON THE DRAWINGS.
- 11. CONTRACTOR SHALL ENSURE THAT STRUCTURAL MEMBERS ARE NOT LOADED IN EXCESS OF DESIGN LIVE LOADS DURING CONSTRUCTION. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT WHEN PLACED ON FLOOR AND ROOF FRAMING.
- 12. WHEN DIGGING ADJACENT TO EXISTING BUILDING CONTRACTOR SHALL MAKE SURE TO NOT LOAD EXISTING BUILDING BELOW GROUND WALLS WITH HEAVY EQUIPMENT. PLEASE PLACE THE EQUIPMENT AT 45 DEGREES AWAY FROM THE BOTTOM OF THE FOOTING TO MAKE SURE THE LOAD IS NOT DIRECTLY TRANSFERRED SMALLER OR MANUAL EQUIPMENT SHALL BE USED TO BACKFILL AND COMPACT THE SOIL AFTER THE WORK IS PERFORMED.

DESIGN LOADS

DEAD LOAD

THE WEIGHT OF THE STRUCTURAL MEMBERS THEMSELVES AND ALL PERMANENT CONSTRUCTION INCLUDING WALLS, FLOORS, CEILINGS, ROOF CLADDING AND FIXED EQUIPMENT.

LIVE LOAD ROOF LIVE LOAD REDUCTION WAS NOT USED

.20 PSF ROOF. SNOW LOAD

GROUND SNOW LOAD (Pg) 5 PSF

WIND LOAD

ULTIMATE DESIGN WIND SPEED (V ULT) NOMINAL DESIGN WIND SPEED (V ASD)	120 MPH
	IV
INTERNAL PRESSURE COEFFICIENT	
COMPONENTS AND CLADDING	
ZONE - EFFECTIVE WIND AREA	
ZONE 4 - 10SF	33 PSF
ZONE 4 - 20SF	28 PSF
ZONE 4 - 50SF	25 PSF
ZONE 5 - 10SF	40 PSF
ZONE 5 - 20SF	31 PSF
ZONE 5 - 50SF	25 PSF
BUILDING CLASSIFICATION	ENCLOSED

SEISMIC LOAD	
RISK CATEGORY	II
SEISMIC IMPORTANCE FACTOR	1.5
Ss	0.183
S1	
SITE CLASS	C
SDS	0.196
SD1	0.143
SEISMIC DESIGN CATEGORY	D
BASIC SEISMIC FORCE-RESISTING SYSTEMORDINARY RE	INFORCED
MASONRY SHEAR WALL	
DESIGN BASE SHEAR	30KIP
SEISMIC RESPONSE COEFFICIENT, Cs	0.109
RESPONSE MODIFICATION COEFFICIENT(S), R	2
ANALYSIS PROCEDURE USEDEQUIVALENT STATIC	ANALYSIS

FOUNDATIONS

- ^{1.} THE FOUNDATION AND SLAB ON GRA ASSUMPTIONS.
- 2. THE SHALLOW FOUNDATIONS ARE DE BEARING CAPACITY OF 1500 PSF. TH SHALL BE VERIFIED ON SITE BY A GE TO FOUNDATION CONSTRUCTION.
- 3. FOOTINGS SHALL BEAR ON SUITABLE **16" BELOW ADJACENT FINISHED EXTE**
- 4. FOUNDATION SIDES MAY BE EARTH F GEOTECHNICAL ENGINEER.
- ^{5.} THE SUBGRADE PREPARATION SHALL THOSE MEASURES OUTLINED IN THE WELL AS THE CIVIL DRAWINGS AND S
- 6. CONTROL (SAW CUT) JOINTS SHALL B GRADE AT EACH COLUMN LINE AND A SPACING OF TRANSVERSE CONTROL 12'X12'.

CONCRETE (CAST-IN-PLACE)

- 1. DESIGN OF CONCRETE IS BASED ON CONSTRUCTION SHALL CONFORM TO
- ^{2.} CONCRETE SHALL BE NORMAL WEIGH MINIMUM 28 DAY COMPRESSIVE STRE SLAB ON GRADE. SPREAD FOOTINGS.. GROUT IN MASONRY WALL NON-SHRINK GROUT AT BASE PLAT
- ^{3.} ALL TENSION SPLICES INCLUDING TH SHALL BE CLASS B IN ACCORDANCE STAGGERED WHERE POSSIBLE.
- **4. CONCRETE REINFORCING SHALL BE** PLACED IN ACCORDANCE WITH ACI 3 SHALL CONFORM AS FOLLOWS: REINFORCING STEEL. WELDED WIRE REINFORCING (WWI DOWELS.
- 5. WELDED WIRE REINFORCING SHALL LAPPED A MINIMUM OF TWO FULL PA

DOWELS.

- 6. UNLESS INDICATED OTHERWISE, CON REINFORCEMENT SHALL BE AS FOLL - CONCRETE NOT EXPOSED TO EART FOR #11 BARS OR SMALLER (SLA BEAMS AND COLUMNS..
- -CONCRETE EXPOSED TO EARTH OR FOR #5 BARS OR SMALLER (INCL FOR #6 BARS OR LARGER. CONCRETE CAST DIRECTLY AGA
- 7. ALL REINFORCING STEEL, ANCHOR B INSERTS AND EMBEDS SHALL BE SEC AND APPROVED PRIOR TO PLACING (SLABS AND SLAB ON GRADE SHALL B IN EACH DIRECTION. DOWELS SHALL FRESHLY PLACED CONCRETE.
- 8. REINFORCING BARS AND ACCESSOR WITH ANY PIPE, PIPE FLANGE OR ME CONCRETE, A MINIMUM OF 2 INCHES
- 9. ADDITIONAL REINFORCING (SEE TYPI PROVIDED AT THE FOLLOWING: GRADE BEAM CORNERS AND INTER REENTRANT CORNERS PENETRATIONS
- ALL EXPOSED CONCRETE EDGES SH
- 11. CONCRETE REINFORCEMENT SHALL APPROVED BY THE ENGINEER OF RE

<u>GROUT :</u>

- 1. GROUT UNDER BEARING PLATES SH 60,000 PSI MINIMUM COMPRESSIVE S PLACEMENT SHALL BE IN ACCORDA INSTRUCTIONS.
- 2. ANCHORING CEMENT FOR RAILINGS CEMENT PRODUCT WITH WATER AS MANUFACTURER'S PRODUCT DATE F

	METAL ROOF DECK	DESIGN CRITERIA
DE DESIGNS SHALL BE	1. CONFORM TO STEEL DECK INSTITUTE DESIGN MANUAL, LATEST	1. INTERNATIONA
ESIGNED WITH A MINIMUM SOIL E MINIMUM BEARING CAPACITY	 UNLESS NOTED OTHERWISE, ROOF DECK SHALL BE WIDE-RIB (GALVANIZED - ASTM-A653-94, G60). MINIMUM YIELD STRENGTH SHALL BE 32000 DSL 	 ACI318-14-BUIL CONCRETE. ACI301-10-SPE
OTECHNICAL ENGINEER PRIOR		BUILDINGS.
RESIDUAL SOIL A MINIMUM OF	1. AT SUPPORTS: #12 TEK SCREWS (AT STEEL)	4. ANSI/AISC 360-
ORMED IF APPROVED BY A	2. AT SIDELAPS: #10 TEK SCREWS	5. ASCE/SEI 7-10- STRUCTURES.
- BE IN ACCORDANCE WITH GEOTECHNICAL REPORT AS PECIFICATIONS.	 DECK WILL BE PLACED AT THE PERIMETER WITH A COMPLETE RIB BEARING ON THE STEEL SUPPORT. DECK SHALL BE SUPPORTED BY A MINIMUM OF FOUR SUPPORT LOCATIONS (THREE SPAN CONDITION). 	 6. SDI DESIGN MA DECKS–NO31 7. SDI DIAPHRAGI
E PLACED IN THE SLAB ON	STRUCTURAL STEEL	8. SJI STANDARD FOR STEEL JOI
T INTERMEDIATE LOCATIONS. JOINTS SHALL NOT EXCEED	1. DESIGN OF STRUCTURAL STEEL IS BASED ON THE AISC STEEL CONSTRUCTION MANUAL INCLUDING AISC-360. MATERIALS: WIDE ELANGE SECTIONS	9. ACI 530-11 BUIL STRUCTURES.
	RECT. STRUCTURAL TUBING ASTM A500 GR B FY46KSI CHANNELS AND ANGLES	CONCRETE MASON 1. ALL MASONF ASCE 5, TMS 2. CONCRETE M
ACI 318. CONCRETE ACI 301.	 STRUCTURAL STEEL SHALL BE NEW DOMESTIC STEEL WITH ALL DETAILING, FABRICATION AND ERECTION CONFORMING TO ALL APPLICABLE PROVISIONS SPECIFIED BY AISC. 	ASTM C 90. L 3. JOINT REINF VERTICALLY A82
HT AND SHALL DEVELOP A ENGTH AS FOLLOWS: 	3. THE DESIGN OF CONNECTIONS FOR ANY PORTION OF THE STRUCTURE NOT INDICATED ON THE DRAWINGS SHALL BE DESIGNED BY THE FABRICATOR AS FOLLOWS: 3/4" ASTM A325 (GROUP A) HIGH STRENGTH BOLTS SHALL BE USED IN SIMPLE SHEAR BEARING TYPE CONNECTIONS WHERE POSSIBLE. SLIP CRITICAL CONNECTIONS SHALL BE USED FOR MOMENT CONNECTIONS.	 4. VERTICAL REBE DOWELEI AT THE ROOBAR. 5. PROVIDE REEACH SIDE CONSTRUCT
OSE BARS NOTED AS CONTINUOUS WITH ACI 318. SPLICES SHALL BE	SHOP CONNECTIONS SHALL BE WELDED OR BOLTED. FIELD CONNECTIONS SHALL BE BOLTED WHERE POSSIBLE.	ROWS AT 8" AND 2 ROWS 7. CONCRETE
DETAILED, FABRICATED AND 15 AND ACI 318. REINFORCING ASTM A615 GRADE 60 R)ASTM A185 ASTM A615 GRADE 60 ASTM A663 GRADE 60	FOR BEAMS: PROVIDE THE MINIMUM NUMBER OF BOLTS REQUIRED TO DEVELOP THE BEAM SHEAR "V" AND MOMENT "M" (IF APPLICABLE) NOTED ON THE CONTRACT DRAWINGS. IF THE BEAM SHEAR IS NOT NOTED, THE CONNECTION SHALL DEVELOP THE BEAM V = W/2 WHERE W IS THE MAXIMUM TOTAL UNIFORM LOAD BASED ON LATERALLY SUPPORTED SIMPLE SPAN AS SHOWN IN TABLES 3-6 THROUGH 3-9 IN THE AISC STEEL CONSTRUCTION MANUAL.	REQUIRED IN 8. ALL CELLS B SOLID. 9. HORIZONTAL DISCONTINU 10. 16" DEEP BO AND 8" STAN 11. SEE ARCHITI
BE PROVIDED IN FLAT SHEETS AND	4. ALL FIELD WELDING SHALL BE DONE WITH E70XX ELECTRODES.	OF OPENING
NELS AND TIED ON EACH SIDE.	5. ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS AND CONFORM TO THE AMERICAN WELDING SOCIETY ANSI/AWS D1.1.	
OWS:	6. THE MINIMUM WELD SIZE SHALL BE 3/16" U.N.O.	
A OR WEATHER ABS, WALLS, JOISTS)	7. EXPOSED WELDED CONNECTIONS SHALL BE GROUND SMOOTH.	
WEATHER UDING WWR)1 1/2" 	8. THE FABRICATOR SHALL PREPARE AND SUBMIT FOR REVIEW DRAWINGS SHOWING SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS, AND ERECTION DIAGRAMS. FABRICATION SHALL NOT BEGIN UNTIL STEEL SHOP DRAWINGS HAVE BEEN COMPLETED AND REVIEWED BY THE ENGINEER OF RECORD.	
CURED IN POSITION, INSPECTED CONCRETE. REINFORCEMENT IN SE PLACED ON CHAIRS AT 36" MAX NOT BE INSERTED INTO	9. STRUCTURAL STEEL SHALL BE SHOP PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. DO NOT PAINT MEMBERS THAT ARE TO RECEIVE SPRAY ON FIRE PROOFING, SLIP CRITICAL CONNECTIONS, SURFACES TO BE FIELD WELDED, OR THE TOP FLANGE OF COMPOSITE BEAMS TO RECEIVE HEADED STUDS.	
IES SHALL NOT BE IN CONTACT TAL PARTS EMBEDDED IN	10. INSTALL STRUCTURAL STEEL BEAMS WITH NATURAL CAMBER UP.	
CLEARANCE SHALL BE PROVIDED	11. STRUCTURAL STEEL SHALL NOT BE CUT IN THE FIELD FOR WORK OF OTHER TRADES WITHOUT PRIOR APPROVAL OF THE ENGINEER OF	
RSECTIONS	12 ALL STEEL EXPOSED TO WEATHER INCLUDING LINTELS SHALL BE HOT	WIN
	DIPPED GALVANIZED.	
HALL BE CHAMFERED 3/4" . NOT BE WELDED UNLESS ECORD.	13. PACK NON SHRINK HIGH STRENGTH (MIN 6000 PSI) GROUT UNDER ALL COLUMN BASE PLATES AFTER SETTING AND LEVELING BEFORE ADDING ANY LOAD. BASE PLATES SHALL BE LEVELED WITH DOUBLE NUTS.	
ALL BE NON-SHRINK GROUT- STRENGTH. MIXING AND NCE WITH MANUFACTURER'S	14. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STEEL FRAME IN PROPER ALIGNMENT UNTIL ALL FLOOR AND ROOF DECK, DIAGONAL BRACING, FLOOR SLABS, WELDED CONNECTIONS, ETC. HAVE BEEN INSTALLED AND THE CONCRETE HAS DEVELOPED A STRENGTH OF 3000 PSI.	
MIX PREPARED ANCHORING DIRECTED BY OR IMMEDIATE USE.		

RITERIA – CODES AND SPECIFICATIONS

ATIONAL BUILDING CODE 2018.

-14-BUILDING CODE REQUIREMENTS FOR STRUCTURAL

-10–SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR

ISC 360-10–SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

SEI 7-10–MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER

SIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF

PHRAGM DESIGN MANUAL THIRD EDITION.

ANDARD SPECIFICATIONS, LOAD TABLES AND WEIGHT TABLES FEEL JOISTS AND JOISTS GIRDERS 42ND EDITION 2005.

0-11 BUILDING CODE REQUIREMENTS FOR MASONRY TURES.

E MASONRY

MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO ACI 530. E 5, TMS 402, ASCE 6 AMD TMS 602.

CRETE MASONRY UNITS SHALL BE LIGHT WEIGHT AND CONFORM TO VI C 90. LAY IN RUNNING BOND UNLESS NOTED. F'M SHALL BE 2000 PSI IT REINFORCING - TRUSS TYPE, 9 GAUGE OR W1.7 SPACED TICALLY AT 16" UNLESS NOTED OTHERWISE AND CONFORM TO ASTM

TICAL REINFORCING IN CONCRETE MASONRY (AS REQUIRED) SHALL OWELED INTO THE FOUNDATION AND EXTEND INTO THE BOND BEAM HE ROOF. PROVIDE MIN. 4" x 4" OPENING AT U BLOCK FOR VERTICAL

VIDE REINFORCING IN CONCRETE MASONRY GROUTED CELLS AT H SIDE OF OPENING, EQUAL TO THE REINFORCING DISPLACED. VIDE JOINT REINFORCING AT 8" AT MASONRY BELOW GRADE. 2 /S AT 8" AT TOP AND BOTTOM OF OPENINGS, (EXTEND 24" EACH SIDE) 2 ROWS AT 8" AT BOND BEAMS.

CRETE MASONRY UNITS SHALL BE CUT BELOW BOND BEAMS AS UIRED IN ORDER TO GET BOND BEAMS AT THE PROPER ELEVATION. CELLS BELOW GRADE AND SLAB ON GRADE SHALL BE GROUTED

IZONTAL BEAMS, BOND BEAMS AND REINFORCING SHALL BE CONTINUOUS AT CONTROL JOINTS AT CONTRACTOR OPTION. DEEP BOND BEAMS MAY BE CONSTRUCTED OF 8" U BLOCK BELOW 8" STANDARD BLOCK ABOVE WITH BREAK AWAY TOP PART OF WEB. ARCHITECTURAL DRAWINGS FOR LAYING MASONRY AND LOCATION PENINGS.



WIND ZONES. COMPONENTS AND CLADDING.





					BΥ				
					DATE				
					VISIONS				
					RE				
					No.				
Kimbaw Morn		© 2021 KIMLEY-HORN AND ASSOCIATES, INC.	12740 GRAN BAY PARKWAY WEST, SUITE 2350	JACKSONVILLE, FLORIDA 32258 PHONE: 904-828-3900	WWW.KIMLEY-HORN.COM REGISTRY NO. 696				
LICENSED PROFESSIONAL:		BALA GULLIPALLI, P.E.	GEORGIA LICENSE NUMBER	042400	DATE:				
КНА РКОЈЕСТ 045709000	DATE MARCH 2023	SCALE: AS SHOWN	DESIGNED BY: BG	DRAWN BY: AT	CHECKED BY: BG				
STRUCTURAL GENERAL NOTES									
ENGINEERRING SERVICES FOR PUMP STATION UPGRADES FOR PS3101 PREPARED FOR BGJWSC									
SHEET NUMBER									

ACI 530 - TABLE 3.1.2 MASONRY LEVEL B QUALITY ASSURANCE					IBC - TABLE 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION (IBC 2018)					
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INI ACCORDANCE WITH SPECIFICATION ARTICLE 1.5	DEX (VSI) AS DEL 3.1.b.3 FOR SELF	IVERED TO	THE PROJECT SI ATING GROUT	ITE IN	VERIFICATION AND INSPECTION		ERIODIC	REFERENCE STANDARD	IBC REFERENCE	
VERIFICATION OF f' mAND f' AAC IN ACCORDANCE WITH S	PECIFICATION A	RTICLE 1.4 I	B PRIOR TO CON	STRUCTION,	1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.		x	ACI 318: 3.5, 7.1-7.7	1910.4	
EXCEPT WHERE SPECIFICALL	Y EXEMPTED BY	THIS CODE			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			ΔCI 312.	1908.5.	
INSPECTION TASK	FREQUENCY	(a)	REFERENCE TMS 402/	E FOR CRITERIA TMS 602/	ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.			8.1.3,21.1.8	1909.1	
	CONTINUOUS	PERIODIC	ACI 530/ ASCE 5	5 ACI 530.1/ ASCE 6	4. INSPECTION OF ANCHORS POST INSTALLED IN HARDENED CONCRETE MEMBERS.		X	ACI 318: 3.8.6,8.1.3,21.1.8	1909.1	
 VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE. 		X		ART. 1.5	5. VERIFYING USE OF REQUIRED DESIGN MIX.		X	ACI 318: CH. 4, 5.2-5.4	1904.2,1910.2, 1910.3	
a. PROPORTIONS OF SITE-PREPARED MORTAR		x		ART. 2.1 , 2.6 A	6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS,	x		ASTM C 172 ASTM C 31	1910.10	
b. CONSTRUCTION OF MORTAR JOINTS		x		ART. 3.3 B	PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE			ACI 318: 5.6, 5.8		
c. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		_		ART. 2.4 B , 2.4 H	7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X		ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910 8	
d. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		x		ART. 3.4 , 3.6 A						
e. PRESTRESSING TECHNIQUE		_		ART. 3.6 B	8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		Х	ACI 318: 5.11-5.13	1910.9	
f. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	(b) —	(c) _		ART. 2.1 C	9. INSPECTION OF PRESTRESSED CONCRETE:					
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					 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		
a. GROUT SPACE		х		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	10. ERECTION OF PRECAST CONCRETE MEMBERS.			ACI 318: CH. 16		
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	PRIOR TO STRESSING OF TENDONS IN POST TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND EORMS EROM BEAMS AND STRUCTURAL			ACI 318: 6.2		
d. PROPORTIONS OF SITE-PREPARED GROUT AND		x		ART. 2.6 B,	SLABS.					
e. CONSTRUCTION OF MORTAR JOINTS		X		2.4 G.1b ART. 3.3 B	12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED			ACI 318: 6.1.1		
4. VERIFY DURING CONSTRUCTION:					NOTES:					
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		Х		ART. 3.3 F	FOR SI: 1 INCH = 25.4 MM. A. SEE SPECIAL INSPECTION NOTES ON GENERAL NOTE S	HEET FOR ADD	TIONAL IN	IFORMATION.		
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		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					
c WELDING OF REINFORCEMENT			SEC. 8.1.6.7.2		OTHER THAN STRUCTURAL	STEEL (IBC 2018	3)			
	-		9.3.3.4 (c) , 11.3.3.4 (b)		VERIFICATION AND INSPECTION	CONTINUOUS	PERIODI	C REFERENC STANDARD	E D	
d. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER		x		ART. 1.8 C . 1.8 D	1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:		l	-1		
(TEMPERATURE BELOW 40F (4.4C)) OR HOT WEATHER (TEMPERATURE ABOVE 90F (32.2C))					a. IDENTIFICATION MARKINGS TO CONFIRM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.		Х	APPLICABLE A MATERIAL STANDARD	STM	
f. PLACEMENT OF GROUT AND PRESTRESSING GROUT	-			ART. 3.6 B	b. MANUFACTURER'S CERTIFICATE TEST REPORTS.		X			
FOR BONDED TENDONS IS IN COMPLIANCE	_			ART. 3.5 , 3.6 C	2. INSPECTION OF WELDING:		<u> </u>			
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	a . COLD-FORMED STEEL DECK:					
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	1) FLOOR AND ROOF DECK WELDS.					
				B.2.c.3 , 1.4 B.3 , 1.4 B.4	b . REINFORCING STEEL:					
(a) FREQUENCY REFERS TO THE FREQUENCY OF SPECIAL IN TASK LISTED OR PERIODIC DURING THE LISTED TASK, AS	ISPECTION, WHI DEFINED IN THE	CH MAY BE E TABLE.	CONTINUOUS DU	IRING THE	1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.					
(D) REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUA (c) REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQU	KE METERS) OF JARE METERS) (AAU MASON DF AAC MAS	NKY. ONRY.		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.			AWS D1.4 ACI SECTION 3.5	318: 5.2	
					3) SHEAR REINFORCEMENT.					
					4) OTHER REINFORCING STEEL.					
	3. COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GF	REATER.								
					a . VERIFY TEMPORARY AND PERMANENT RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.					



	IBC 2018 - TABLE 1705.6 REQUIRED SPECIAL INSPECTION AND TESTS OF SOILS					
	ТҮРЕ	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION			
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		Х			
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		Х			
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	_	х			
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Х				
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		Х			



BID DOCUMENTS

TE OR G

* No. PE042400 PROFESSIONAL

CNGINEER SWARA RAO 03/06/2023

	CIRCUIT BREAKER
20A 🏳	DUPLEX RECEPTACLE, NEMA 5-20R, TYPE WP, CR
WP:	WEATHERPROOF, CR:CORROSION RESISTANT
I	GROUND TO GROUND ROD SYSTEM
GF	GROUND FAULT CIRCUIT INTERRUPTER PROTECTION
AIC	INTERRUPTING CAPACITY IN AMPS
/>	CONDUIT SYSTEM CONCEALED BELOW GRADE
	EXPOSED CONDUIT
/10/	PUMP MOTOR. HORSEPOWER INDICATED
N.T.S.	NOT TO SCALE
SP	SURGE PROTECTION DEVICE
	DRIVEN GROUND ROD LOCATION
\$	SWITCH, 48" AFF
\$ ₃	THREE WAY SWITCH, 48" AFF
\$ ₃₽	20A 120/277V, 3-WAY TOGGLE SWITCH WITH PILOT LIGHT
Ю	NEMA 4X STAINLESS STEEL DISCONNECT SWITCH. RATINGS AS NOTED ON ONE-LINE.
	ALARM HORN. MOUNT 12' AFF ON BUILDING - NOTE G6,G
X	RED ALARM LIGHT. MOUNT 12' AFF ON BUILDING - NOTE
ШН	MULTI-COLOR ALARM LIGHT ON BUILDING - NOTE G6.
PC	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
EXP	EXPLOSION PROOF: CLASS 1, DIV. 1
Ð	GENERATOR RECEPTACLE - SEE 2/209, 2/308, AND 2/425

LEGEND:

GENERAL NOTES: (APPLICABLE TO ALL DRAWINGS)

	G1. FIELD COORDINATE THE ELECTRICAL SERVICE WITH GREG MCCRANIE, GEORGIA POWER DISTRIBUTION ENGINEER, 912-267-5127.
	G2. INSTALL GROUNDING DELTA AS SHOWN ON ELECTRICAL SITE PLANS. REFER TO SECONDARY GROUNDING DETAIL, 3/425, FOR INSTALLATION REQUIREMENTS.
, CR	G3. PROVIDE A TRANS-SOCKET METER. EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF THE GEORGIA POWER BLUE BOOK, 2017 EDITION.
ECTION	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.
E	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.
ILOT LIGHT, 48" AFF ITCH.	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.
NOTE G6,G7	G10. EXTEND THROUGH 3-POSITION SWITCH ADJACENT TO MAIN DOOR.
NG - NOTE G6	G11. EXTEND PHOTO CONTROL TO 3-POSITION SWITCH. CONNECT TO UP/PHOTO POSITION.
DTE G6.	G12. 3-POSITION, MAINTAINED CONTACT, 20A/277V. HUBBELL CAT. NO. HBL1385. LABEL SWITCH POSITIONS: UP-PHOTO, CENTER-OFF, DOWN-MANUAL/ON.
RATED	
РАСК	

VITH TWO HEADS

DEMOLITION NOTES:

D1. THE EXISTING DISTRIBUTION PANEL, TRANSFER SWITCH, LIGHTING SYSTEM, RECEPTACLES, VFDS, AND OTHER ELECTRICAL EQUIPMENT INCLUDING ALL CONDUITS AND CONDUCTORS SHALL BE DEMOLISHED AND REMOVED FROM THE PROJECT SITE AS PART OF THIS CONTRACT. THE CONTRACTOR SHALL DISPOSE OF THE MATERIAL OFF-SITE AS PART OF THE CONTRACT. COORDINATE WITH OWNER FOR ANY MATERIALS TO BE RETAINED BY THE OWNER.

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





BID DOCUMENTS

SHEET NUMBER 105







	GRAPHIC SCALE IN FEET	REVISIONS DATE BY
		OGG S, INC. E 2350 35106 No. F
		© 2023 KIMLEY-HORN AND ASSOCIATE 12740 GRAN BAY PARKWAY WEST, SUIT JACKSONVILLE, FLORIDA 32258 PHONE: 904-828-3900 WWW.KIMLEY-HORN.COM REGISTRY NO.
		HA PROJECT 145709000 DATE AAY 2023 JOSHUA S PETERSON, P.E. LE AS SHOWN GNED BY JSP GEORGIA LICENSE NUMBER O 36753 WN BY KBS DATE:
		PS3101 EROSION CONTROL & DESI SEDIMENT PLAN DESI
	K K	PUMP STATION UPGRADES PS3101 PREPARED FOR BGJWSC
D DOCUMENTS	ULEUNUHAOUI. Utilities Protection Center, Inc. Know what's below. Call before you dig.	SHEET NUMBER





WES1 RIDA 3900 $\widehat{}$ ŚЩŞ E 045 Ζ 1 Ц R PS3101 ELECTRIC/ DEMOLITION I ENGINEERRING SERVICES FOR PUMP STATION UPGRADES FOR PS3101 PREPARED FOR BGJWSC SHEET NUMBER

SYMBOL LEGEND:





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

ies Protection Center, Inc ^L

Know what's below. Call before you dig.





							REVISIONS DATE BY
							No.
Kimbu who have			© 2021 KIMLEY-HUKIN ANU ASSUUATES, INU.	12740 GRAN BAY PARKWAY WEST, SUITE 2350	JACKSONVILLE, FLORIDA 32258 PHONF: 904-828-3900	WWW.KIMLEY-HORN.COM REGISTRY NO. 696	
LICENSED PROFESSIONAL:		KHOSROW ABDI, P.E.		GEORGIA LICENSE NUMBER	021296		DATE:
КНА РКОЈЕСТ 045709000	DATE MARCH 2023			DESIGNED BY: KA	DRAWN BY: TF		CHECKED BY: KA
			L015C1	PREPARED FOR	BG IWCC		

207

- 2. SYSTEM IS PROVIDED BY ELECTRIC MACHINE CONTROL. INC. (EMC). CONTACT JAMES DENTON (205) 661-3998, CELL (205) 3. PROVIDE ALL FIELD WIRING IN CONDUITS AS REQUIRED. COORDINATE ALL CONNECTIONS, ALARMS AND CONTROL WITH
- 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. FLOATS SHALL BE MERCURY TYPE WITH CABLES EXTENDING CONTINUOUS TO FIELD JUNCTION BOX, RATED CLASS I, DIV I,

- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE ACCESS TO AREAS OUTSIDE OF BGJWSC EASEMENTS, AS REQUIRED,
- 3. CONTRACTOR SHALL PROVIDE SUE LEVEL B LOCATES FOR ALL UTILITIES WITHIN PUMP STATION SITE. CONTRACTOR SHALL











DISTURBED AREA STABILIZATION

PERMANENT GRASSING Ds3

PLANTS, PLANTING RATES, AND PLANTING DATES FOR PERMANENT COVER						
TYPES OF SPECIES	RATES PER ACRE	RATES PER 1,000 SF	PLANTII M-L	NG DATES BY F P	REGION C	REMARKS
BAHIA, PENSACOLA ALONE OR WITH TEMPORARY COVER WITH PERENNIALS	60 LBS. 30 LBS.	1.4 LBS. 0.7 LBS.	-	4/1-5/31	3/1-5/31	LOW GROWING AND SOD FORMING. ALLOW TO ESTABLISH. WILL SPREAD INTO BERMUDA LAWNS.
BAHIA, WILMINGTON ALONE OR WITH TEMPORARY COVER WITH PERENNIALS	60 LBS. 30 LBS.	1.4 LBS. 0.7 LBS.	3/15-5/31	3/1-5/31	-	LOW GROWING AND SOD FORMING. ALLOW TO ESTABLISH. WILL SPREAD INTO BERMUDA LAWNS.
BERMUDA, COMMON (HULLED SEED) ALONE OR WITH TEMPORARY COVER WITH PERENNIALS	10 LBS. 6 LBS.	0.2 LBS. 0.1 LBS.	-	4/1-5/31	3/15-5/31	QUICK COVER, LOW GROWING AND SOD FORMING. NEEDS FULL SUN
BERMUDA, COMMON (UNHULLED SEED) ALONE OR WITH TEMPORARY COVER WITH PERENNIALS	10 LBS. 6 LBS.	0.2 LBS. 0.1 LBS.	-	10/1-2/28	11/1-1/31	PLANT WITH WINTER ANNUALS PLANT WITH TALL FESCUE
BERMUDA SPRIGS TEMPORARY COVER	40 CF SOD PLU	0.9 CF GS 3' X 3'	4/15-6/15	4/1-6/15	4/1-5/31	1 CF = 650 SPRIGS 1 BU. = 1.25 CF OR 800 SPRIGS.
CENTIPEDE	BLOCI ON	K SOD ILY	-	11/1-5/31	11/1-5/31	DROUGHT TOLERANT; FULL SUN OR PARTIAL SHADE; EFFECTIVE ADJACENT TO CONCRETE AND IN CONCENTRATED FLOW AREAS; IRRIGATION NEEDED UNTIL FULLY ESTABLISHED; DO NOT PLANT NEAR PASTURES
CROWN VETCH WITH WINTER ANNUALS OR COOL WINTER GRASSES	15 LBS.	0.3 LBS	9/1-10/15	9/1-10/10	-	MIX WITH 30 LBS. TALL FESCUE OF 15 LBS. RYE; INNOCULATE SEED; ONLY NORTH OF ATLANTA, DENSE GROWTH; DROUGHT TOLERANT AND FIRE RESISTENT
FESCUE, TALL ALONE WITH OTHER PERENNIALS	50 LBS. 30 LBS.	1.1 LBS 0.7 LBS	3/1-4/1 - OR - 8/15-10/15	9/1-10/15 - OR - 2/15-4/15	-	NOT FOR DROUGHTY SOILS. MIX WITH PERENNIAL LESPEDEZAS OR CROWNVETCH. APPLY TOPDRESSING IN SPRING FOLLOWING FALL PLANTINGS. NOT FOR HEAVY USE AREAS OR ATHLETIC FIELDS. 227,000 SEED PER POUND.
LESPEDEZA, SERICEA	60 LBS.	1.4 LBS	4/1-5/31	3/15-5/31	3/1-5/15	WIDELY ADAPTED AND LOW MAINTENANCE. TAKES 2-3 YEARS TO ESTABLISH. EXCELLENT ON ROADBANKS. INOCULATE SEED WITH EL INOCULANT. MIX WITH WEEPING LOVEGRASS, COMMON BERMUDA, HAHIA, OR TALL FESCUE.
SCARIFIED UNSCARIFIED SEED-BEARING HAY	75 LBS.	1.7 LBS	9/1-2/28	9/1-2/28	9/1-2/28	MIX WITH TALL FESCUE OR WINTER ANNUALS
	3 TONS	138 LBS.	10/1-2/28	10/1-1/31	9/15-1/15	CUT WHEN SEED IS MATURE, BUT BEFORE IT SHATTERS. ADD TALL FESCUE OR WINTER ANNUALS.
LESPEDEZA, AMBRO VIRGETA OR APPALOW SCARIFIED UNSCARIFIED	60 LBS. 75 LBS.	1.4 LBS 1.7 LBS	4/1-5/31 9/1-2/28	3/15-5/31 9/1-2/28	3/15-5/15 9/1-2/28	SPREADING GROWTH WITH HEIGHT OF 18"-24". GOOD IN URBAN AREAS. MIX WITH WEEPING LOVEGRASS, COMMON BERMUDA, BAHIA, TALL FESCUE, OR WINTER ANNUALS. DO NOT MIX WITH SERICEA LESPEDEZA. SLOW TO DEVELOP SOLID STANDS. INOCULATE SEED WITH EL INOCULANT.
LESPEDEZA, SHRUB LESPEDEZA BICOLOR OR LESPEDEZA THUMBERGIL) PLANTS	3' X 3' S	PACING	10/1-3/31	11/1-3/15	11/15-2/28	PLANT IN SMALL CLUMPS FOR WILDLIFE FOOD AND COVER.
LOVEGRASS, WEEPING ALONE WITH OTHER PERENNIALS	4 LBS. 2 LBS.	0.1 LBS 0.05 LBS	4/1-5/31	3/15-5/31	3/1-5/31	QUICK COVER. DROUGHT TOLERANT. GROWS WELL WITH SERICEA LESPEDEZA ON ROADBANKS.
AAIDENCANE 2' X 3' SPACING 2' X 3' SPACING		2/1-3/31	2/1-3/31	2/1-3/31	FOR VERY WET SITES SUCH AS RIVERBANKS AND SHORELINES. DIG SPRIGS LOCALLY. MAY CLOG CHANNELS.	
PANICGRASS, ATLANTIC COASTAL	20 LBS.	0.5 LBS	-	3/1-4/30	3/1-4/30	GROWS WELL ON COASTAL SAND DUNES, BORROW AREAS, AND GRAVEL PITS. PROVIDES WINTER COVER FOR WILDLIFE. MIX WITH SERICEA LESPEDEZA EXCEPT ON SAND DUNES.
REED CANARY GRASS ALONE WITH OTHER PERENNIALS	50 LBS. 30 LBS.	1.1 LBS 0.7 LBS	6/15-10/15	9/1-10/15	-	GROWS SIMILAR TO TALL FESCUE
SUNFLOWER, 'AZTEC' MAXIMILLIAN	10 LBS.	0.2 LBS	4/15-5/31	4/15-5/31	4/1-5/31	MIX WITH WEEPING LOVEGRASS, LEGUMES, OR OTHER LOW GROWING GRASSES.

PERMANENT	SEEDING

•				
	PLANTING	FERTILIZER	RATE	N TOP DRESSING
	YEAR	(N-P-K)	(LBS./ACRE)	RATE (LBS./ACRE)
	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	1000	-
	MAINTENANCE	10-10-10	400	30
	FIRST	6-12-12	1500	0-50
3L3 &	SECOND	0-10-10	1000	-
	MAINTENANCE	0-10-10	400	-
	FIRST	10-10-10	1300	-
	SECOND	10-10-10	1300	-
	MAINTENANCE	10-10-10	1100	-
			ONE 21-GRAM PELLET PER	
	FIRST	20-10-5	SEEDLING PLACED IN THE	-
			CLOSING HOLE	
	FIRST	0-10-10	700	-
	MAINTENANCE	0-10-10	700	-
COVER CROPS SEEDED ALONE	FIRST	10-10-10	500	30
	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	800	50-100
	MAINTENANCE	10-10-10	400	30
	FIRST	6-12-12	1500	50
50L0 Q	SECOND	0-10-10	1000	-
	MAINTENANCE	0-10-10	400	-

MATERIAL	DEPTH
DRY STRAW OR HAY	2" TO 4"
OOD WASTE (SAWDUST, BARK, CHIPS)	2" TO 3"
UTBACK ASPHALT (SLOW CURING)	1200 GAL. / ACRE (1/4 GAL. / SQ.YD.)
ACK POLYETHYLENE FILM	COMPLETELY COVE AREA; HOLD IN PLAC WITH SOIL ON OUTE EDGE

MULCHING

Ds1

APPLY AGRICULTURAL LIME

AS PRESCRIBED BY SOIL

TESTS OR AT A RATE OF 1-2 TONS PER ACRE

BARLEY OATS

ANNUAL

RYE LESPEDEZA,

TEMPORARY SEEDING

FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION								
TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS./ACRE)	N TOP DRESSING RATE (LBS./ACRE)				
COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 100 400	50-100 - 30				
COOL SEASON GRASSES & LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 1000 400	0-50 - -				
TEMPORARY COVER CROPS	FIRST	10-10-10	500	30				
SEEDED ALONE WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30				

C REPRESENTS THE SOUTHERN COASTAL PLAIN, SAND HILLS, BLACK LANDS, AND ATLANTIC COAST FLATWOODS MLRAS.

P REPRESENTS THE SOUTHERN PIEDMONT REGION MLRA.

M-L REPRESENTS THE MOUNTAIN, BLUE RIDGE, AND RIDGES & VALLEYS MLRAS.

4. SEEDING RATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.

3. UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.

. TEMPORARY COVER CROPS ARE VERY COMPETITIVE AND WILL CROWN OUT PERENNIALS II PLANTED TOO HEAVILY.

Ds2

2. REDUCE SEEDING RATES BY 50% WHEN DRILLED.

0.9 LBS. 40 LBS.

 ANNOAL
 0.9 LBS.
 40 LBS.
 3/1-3/31
 3/1-3/31
 2/1-2/26

 WEEPING LOVEGRASS
 0.1 LBS.
 4 LBS.
 4/1-5/31
 4/1-5/31
 3/1-5/31

 SUDANGRASS
 1.4 LBS.
 60 LBS.
 4/1-8/31
 4/1-8/31
 3/1-7/31

 MILLET, BROWNTOP
 0.9 LBS.
 40 LBS.
 4/15-6/15
 4/15-6/30
 4/15-6/30

 MILLET, PEARL
 1.1 LBS.
 50 LBS.
 5/15-7/15
 5/1-7/31
 4/15-8/15

 WHEAT
 4.1 LBS.
 3 BU.
 9/15-11/30
 10/1-12/15
 10/15-12/31

 RATES PER 1,000 SQ. FT.
 RATES PER ACRE
 PLANTING DATES BY REGION

 3.3 LBS.
 3 BU.
 9/1-10/31
 9/15-11/15
 10/1-12/31

 2.9 LBS.
 4 BU.
 9/15-11/15
 9/15-11/15
 9/15-11/15
 SPECIES TRITCALE3.3 LBS.3 BU.RYEGRASS, ANNUAL0.9 LBS.40 LBS. 10/15-12/15 --

0.6 LBS. 0.5 BU. 8/15-10/31 9/15-11/30 10/1-12/31

3/1-3/31 3/1-3/31

8/15-11/15 9/1-12/15 9/15-12/31

2/1-2/28

PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS

GEORGIA811. Utilities Protection Center, Inc. Know what's below. Call before you dig.	sheet number 502
No. PEO36753 PROFESSIONAL PROFESSIONAL PETER SUMMER PETER SUMMER	PUMP STATION UPGRADES PS3101 PREPARED FOR BGJWSC
	EROSION CONTROL & SEDIMENT PLAN DETAILS
	KHAPROJECT045709000045709000DATEMAY2023JOTSCALEASSCALEASSCALEASSCALEASSCALEASBATEDESIGNEDBYDRAWNBYCHECKEDBYKBSDATE
	ICENSED PROFESSIONAL SHUA S PETERSON, P.E. GEORGIA LICENSE NUMBER 036753 E:
	Kimley M Horn © 2023 KIMLEY-HORN AND ASSOCIATES, INC. 12740 GRAN BAY PARKWAY WEST, SUITE 2350 JACKSONVILLE, FLORIDA 32258 PHONE: 904-828-3900 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106
	No. REVISIONS
	DATE BY

3/4" = 1'-0"

(2) 5'6"x10'x1/8" THICK ALUMINUM PLATE ROOF PANEL BRUSHED

ALUM. HAT CHANNEL 4 REQD. PER SIDE, EQUALLY SPACED. EXTEND CHANNELS TO WITHIN 1" OF EDGE OF ROOF PANEL

- #4 @ 12" OCEW · ā`* 0' - 10" – #4 CONT. T&B

SPECIFICATIONS. (AT CONTRACTOR'S OPTION, FLOWABLE FILL MAY BE USED TO FILL IN AREAS AS NEEDED)

> NOTES: SEE ARCH & STRUCTURAL PLANS FOR SLAB REPLACEMENT LOCATIONS PROVIDE WWM 4x4xW2.9xW2.9 IN THE SLAB 2" FROM THE TOP. CONTRACTOR TO MATCH THICKNESS OF NEW CONCRETE TO EXISTING. 3.

SLAB-ON-GRADE REPAIR DETAIL 3/4" = 1'-0"

- (1) 1/2" DIA. SMOOTH BAR x 2'-0" LG @ 24" O.C. W/ 4" EMBEDMENT INTO EXIST. SOG W/ HILTI HIT HY 200 (OR EQUAL). GREASE

