

VICINITY MAP

OWNER

(PRIMARY PERMITEE)

DEKALB COUNTY **DEPARTMENT OF WATERSHED MANAGEMENT 4572** MEMORIAL DRIVE DECATUR, GA 30032 PHONE: (770) 621-7200 CONTACT: TINA STRICKLAND, P.E. TSTRICKLAND@DEKALBCOUNTYGA.GOV

ENGINEER

R2T, INC 1841 PEELER ROAD, UNIT C ATLANTA, GA 30328 PHONE: (770)752-5262 CONTACT: GEORGE AJY, P.E. GEORGE.AJY@R2TINC.COM

DEVELOPER

DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT 4572 MEMORIAL DRIVE DECATUR, GA 30032 PHONE: (770) 621-7200 CONTACT: TINA STRICKLAND, P.E. TSTRICKLAND@DEKALBCOUNTYGA.GOV

NPDES FEE TABLE

\$40.00/ACRE x 1.3 ACRES DISTRIBUTED = \$52.00 FEE TO PAY TO DEKALB COUNTY \$40.00/ACRE x 1.3 ACRES DISTRIBUTED = \$52.00 FEE TO PAY TO GEORGIA EPD TOTAL FEES TO PAY = \$104.00

I, LUCK WATFORD (GSWCC LEVEL II CERTIFICATE NO. 0000060876), HEREBY CERTIFY THAT I HAVE VISITED THE SITE PRIOR TO CREATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN.

GASWCC LEVEL II DESIGN PROFESSIONAL

07/06/2020 0000060876 DATE CERTIFICATION #

DEKALB COUNTY IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS BY ENGINEERS OR OTHER DESIGN PROFESSIONALS ON DESIGN OR COUNTY CODE REQUIREMENTS FOR THIS PROJECT.

PROJECT SUMMARY

EXISTING SITE CONDITIONS

THE SITE LAND IS ALL OWNED BY DEKALB COUNTY WITHOUT THE COMMERCIAL OR PRIVATE PROPERTIES LOCATED WITHIN THE CONSTRUCTION CORRIDOR.

PROPOSED SITE CONDITIONS

THE PROPOSED ROJECT INCLUDES THE INSTALLATION OF A SANITARY SEWER LIFT STATION, INCLUDING WET WELL, VALVE VAULT, BACKUP GENERATOR, ADDITIONALLY GRAVITY SEWER, AND 226 LF OF 6" FORCE MAIN, AND **INSTALLED**

24 HOUR EMERGENCY CONTACT: **TINA STRICKLAND** (770) 414-2385

DAYS PRIOR TO START OF LAND DISTURBANCE ACTIVITIE



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

72 HRS NOTICE IS REQUIRED TO GEORGIA 811 UTILITY PROTECTION CENTER BEFORE ANY PLANNED DIGGING http://www.georgia811.com 1-800-282-7411

> <u>NGS</u>WCC Georgia Soil and Water Conservation Commission

Luck Watford Level II Certified Design Professional

CERTIFICATION NUMBER 0000060876 Issued: 07/06/2020 Expires: 03/01/2023

DISTRICT	15	16	18	18 (EAST)	18 (\
INSPECTOR	LONNIE KELLEY	BRUCE MAYHEW	LES MOSLEY	DANIEL TUCKER	MERCEF
PHONE	(404) 391-4164	(678) 516-8627	(404) 538-5101	(404) 732-6411	(770) 2
PHONE (M)	(404) 371-2149	(404) 371-3218	(404) 371-3231	(404) 687-4050	(404) 6

DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT KENSINGTON ROAD PUMP STATION AND PIPELINE PROJECT DEKALB COUNTY DEVELOPMENT FILE # 1244223





PROJECT LOCATION MAP

PROJECT INFORMATION

ADDRESS: 3550 KENSINGTON RD DECATUR GA, 30032 PID: 15 251 05 001 ZONING: R-75 COUNTY: DEKALB LAND LOT: 251 DISTRICT: 15

PARCEL SITE AREA: ±6.1 AC TOTAL DISTURBED AREA: ±1.3 AC ON-SITE DISTURBED AREA: ±0.8 AC 3550 KENSINGTON RD: 25821 SF (0.59 AC) DISTURBED IN RIGHT-OF-WAY DISTURBED AREA: ±0.5 AC NEW IMPERVIOUS: 4,925 SF TOTAL IMPERVIOUS: 4,925 SF (1.85% OF PARCEL SITE AREA) PROPOSED PERVIOUS PAVERS: 6,611 SF

(WEST)

R McGUIRE 274-9024 687-4060

BOARD OF COMMISSIONERS:	CHIEF EXECUTIVE OFFICER:
NANCY JESTER - DISTRICT 1	MICHAEL THURMOND
JEFF RADER - DISTRICT 2	<u>CONTACT:</u>
LARRY JOHNSON - DISTRICT 3	DEKALB COUNTY DEPT. OF WATERSHED MANAGEMENT
STEVE BRADSHAW - DISTRICT 4	4572 MEMORIAL DRIVE,
MEREDA DAVIS JOHNSON - DISTRICT 5	DECATUR, GA 30032
KATHIE GANNON - DISTRICT 6	PHONE: (770) 621-7200
LORRAINE COCHRAN-JOHNSON - DISTRICT 7	FAX: (770) 724-1407



HE 100 YEAR INTERMEDIATE REGIONA EMERGENCY MANAGEMENT AGENCY AS SHOWN

SHEET INDEX

1	G-01	GENERAL - COVER SHEET	
2	G-02	GENERAL - ABBREVIATIONS & LEGEND	
3	G-03	GENERAL - NOTES	
4	G-04	GENERAL - NOTES	
5	G-05	GENERAL - NOTES	
6	C-00	CIVIL - PROPERTY BOUNDARIES	
7	C-01	CIVIL - EXISTING CONDITIONS	
8	C-02	CIVIL - DEMOLITION PLAN	
9	C-03	CIVIL - HORIZONTAL CONTROL PLAN	
10	C-04	CIVIL - GRADING & DRAINAGE PLAN	
11	C-05	CIVIL - SEWER PLAN AND PROFILE	
12	C-06	CIVIL - SEWER PLAN AND PROFILE	
13	C-07	CIVIL - PUMP STATION ENLARGED PLAN	
14	C-08	CIVIL - PUMP STATION PLAN, SECTION, & DETAILS	
15	C-09	CIVIL - STORMWATER & ACCESS ROAD PROFILE	
16	C-10	CIVIL - ACCESS ROAD SECTIONS	
17	CE-01	EROSION CONTROL - NOTES	
18	CE-02	EROSION CONTROL - NOTES	
19	CE-03	EROSION CONTROL - PHASE I PLAN	
20	CE-04	EROSION CONTROL - PHASE II PLAN	
21	CE-05	EROSION CONTROL - DETAILS	
22	CE-06	EROSION CONTROL - DETAILS	
23	CE-07	EROSION CONTROL - DETAILS	
24	TP-01	TREE PROTECTION - PLAN	
25	S-01	STRUCTURAL - PLANS & SECTION	
26	E-01	ELECTRICAL - LEGEND & NOTES	
27	E-02	ELECTRICAL - ONE LINE DIAGRAM	
28	E-03	ELECTRICAL - ELECTRICAL POWER PLAN	DeKalb County
29	E-04	ELECTRICAL - INSTALLATION DETAILS	GEORGIA
30	E-05	ELECTRICAL - INSTALLATION DETAILS	DEVELOPMENT SERVICES
31	I-01	INSTRUMENTATION - P&ID LEGEND	APPROVED
32	I-02	INSTRUMENTATION - P&ID PUMP STATION	1244223
33	CD-01	CIVIL - DETAILS	AP
34	CD-02	CIVIL - DETAILS	
35	CD-03	CIVIL - DETAILS	omissions by engineers or other design professionals on design or county code
36	CD-04	CIVIL - DETAILS	requirements of this project.
37	CD-05	CIVIL - DETAILS	The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any
38	CD-06	CIVIL - DETAILS	violation of any of the provisions of applicable code or of any other ordinance of the jurisdiction. Permit
39	CD-07	CIVIL - DETAILS	presuming to give authority to violate or cancel the provisions of applicable codes or any othe ordinance of the jurisdiction shall not be valid. The
			enter a page de la pag

documents and other data shall not prevent the GEORGIA CERTIFICATE OF AUTHORIZATION OR Planding, McGanical, Gas, and Electrical sections LICENSE WE PEFORA 653 been reviewed for compliance with technical codes and will be EXPIRATED being had been and will be

Development Services.



ABBREVIATIONS

C/L	CENTERLINE
DIP	DUCTILE IRON PIPE
EL	ELEVATION
Е	EAST
HP	HIGH POINT
HWL	HIGH WATER LEVEL
INV	INVERT
LWL	LOW WATER LEVEL
Ν	NORTH
PVC	POLYVINYL CHLORIDE
RJ	RESTRAINED JOINT
SCH	SCHEDULE
SST	STAINLESS STEEL
TOC	TOP OF CONCRETE
TOS	TOP OF SLAB
TYP	TYPICAL

<u>SYMBOLS</u>

NUMBER
AND
ANGLE
AT
DELTA
CENTERLINE

YARD PIPING LEGEND

DOUBLE LINE SINGLE LINE



NOTES:

- 1. EXISTING PIPING AND EQUIPMENT IS SHOWN LIGHT-LINED AND/OR SCREENED AND IS NOTED AS EXISTING. NEW PIPING AND EQUIPMENT IS SHOWN HEAVY-LINED.
- 2. THIS IS A STANDARD LEGEND SHEET, THEREFORE SOME ABBREVIATIONS MAY NOT APPEAR ON THIS SHEET AND NOT ON THE DRAWINGS.
- 3. CONTACT ENGINEER FOR ABBREVIATIONS NOT USED.

GENERAL LEGEND

Α SHT. NO

SECTION (LETTER) DESIGNATION

SHEET NUMBER (REPLACED WITH A LINE IF TAKEN AND SHOWN ON THE SAME SHEET)

STANDARD DETAIL AS INDICATED _____



ON DRAWING WHERE SECTION OR DETAIL IS TAKEN DRAWING NUMBER WHERE SHOWN

└ ON DRAWING WHERE SECTION OR DETAIL IS SHOWN DRAWING NUMBER(S) WHERE TAKEN

COLOR CODES	THREE WORKING DAYS
UTILITY LOCATING	YOU DIG GEORGIA CALL
YELLOW GAS-OIL	Utilities Protection
ORANGE TELEPHONE/CATV	Center, Inc.
BLUE WATER	
GREEN SEWER	
IF YOU DIG GEORGIA	
CALL US FIRST !	BEFORE YOU (R)
1-800-282-7411	1 - 800 - 282 - 7/11
It's The Law !	
tilities Protection Center, http://www.georgia811.com	Inc. /t's The Law !

CIVIL LEGEND

G
——————————————————————————————————————
w
—— SF —— SF ——
— LOD — LOD — LOD —
X
—— SS —— SS ——
SFM SFM

GAS ELECTRIC WATER SERVICE SILT FENCE LIMITS OF DISTURBANCE FENCE (CHAINLINK) SANITARY SEWER SANITARY FORCE MAIN DRAINAGE PIPE

	F PH \	184 ATLA	E (W.R	22 22 2 T(NIT (A, G 378) 2 TIN		AP RD. 0338	321	
CLIENT:	DEVALD COUNTV	DENALD CUUNII	DEPARTMENT OF		WALEKOREU	MANAGEMENT		
PROJECT:				PUMP STATION &	DIDEI INE DRO IECT			© 2010 R2T INC.
REV DATE DESCRIPTION	0 9/25/20 ISSUED FOR CONSTRUCTION	1 11/3/20 LDP COMMENTS	2 12/4/20 LDP COMMENTS					
STAMP: STAMP: STAMP: STAMP: STAMP: STAMP: STAMP: STAMP: STAMP: SHEET TITLE: ABBREVIATIONS & LEGEND ISSUED: NOVEMBER 03, 2020 PROJECT NO. 14–902883 SCALE: NONE CHKD BY: AR								
CHKD BY: AR DESIGNED BY: JRC DRAWN BY: JRC								



APPROVED

AP ______ DATE 01/11/21 This Department is not responsible for any errors or omissions by engineers or other design professionals on design or county code requirements of this project.

NOTE:

The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any THIS IS A STANDAR of any other of the jurisdiction shall not be valid. The

documents and other data shall not prevent the GEORGIA CERTIFICATE OF AUTHORIZATION FOR PIRET, MG anical, Gas, and Electrical sections LICENSE NO: PEFDO2633 been reviewed for compliance with technical codes and will be EXPIRATIONEMENT Uning Aspector 2

GENERAL NOTES:

- 1. CONTRACTOR SHALL NOTIFY DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT INSPECTOR 48 HOURS PRIOR TO START OF CONSTRUCTION.
- 2 CAUTION, UNDERGROUND SERVICE ALERT! THE CONTRACTOR SHALL TELEPHONE TOLL FREE 1-800-282-7411 A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY EXCAVATION AS SHOWN AND NOTED ON THE APPROVED PLANS.
- 3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO PERFORM THE WORK AS SHOWN AND NOTED HEREON AUTHORIZATION SHALL BE OBTAINED PRIOR TO THE START OF CONSTRUCTION FROM DEKALB COUNTY.
- 4. ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE STATE, FEDERAL, AND LOCAL ISSUING AUTHORITY RULES, REGULATIONS AND STANDARDS, INCLUDING THE DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT (DCDWM) POTABLE WATER MAIN, GRAVITY SANITARY SEWER, AND SANITARY SEWER AND FORCE MAIN DESIGN STANDARDS AND DWM STANDARD SPECIFICATIONS, LATEST EDITIONS.
- ^{5.} UNDERGROUND UTILITY LINE LOCATIONS ARE APPROXIMATE ONLY, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF ANY SUCH UTILITIES. UTILITIES SHOWN ON PLANS ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY TO VERIFY UTILITY LOCATIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY EXISTING UTILITIES WILL AFFECT OR IMPEDE THE PROGRESSION OR COMPLETION OF THE DESIGN INTENT OF THESE CONSTRUCTION DOCUMENTS.
- ^{6.} THE CONTRACTOR SHALL COORDINATE RELOCATION OF ANY EXISTING UTILITIES WITH THE APPROPRIATE UTILITY ENTITY PRIOR TO THE START OF ANY CONSTRUCTION.
- 7. UTILITIES SHOWN ARE LOCATIONS OF GROUND IDENTIFIABLE ITEMS. ADDITIONAL UTILITIES MAY EXIST ABOVE OR BELOW THE GROUND. THE SURVEYOR ACCEPTS COMPLETENESS OF THIS DATA. THIS NO RESPONSIBILITY FOR THE PROPERTY IS SUBJECT TO ALL RIGHT-OF-WAYS & EASEMENTS SHOWN OR NOT SHOWN, RECORDED OR NOT RECORDED.
- 8. THE CONTRACTOR SHALL REMOVE AND ABANDON EXISTING UTILITIES ONLY AFTER APPROVAL FROM ALL INTERESTED PARTIES. THESE FACILITIES MAY INCLUDE, BUT NOT BE LIMITED TO: EXISTING ON-SITE DRAINAGE PIPING, ON-SITE PRIVATE ELECTRICAL LINES AND APPURTENANCES, AND ABANDONED EROSION CONTROL DEVICES AND STRUCTURES. THE CONTRACTOR SHALL COORDINATE ANY AND ALL ABANDONMENT AND/OR RELOCATION WITH THE APPROPRIATE UTILITY COMPANIES OR ENTITY. ANY DISPOSAL OF SAID FACILITIES SHALL BE DONE IN ACCORDANCE WITH LOCAL UTILITY AND/OR GOVERNMENTAL REGULATIONS. RELOCATION AND/OR ABANDONMENT OF SAID FACILITIES AND/OR UTILITIES SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR. PERMITS (IF ANY) SHALL BE OBTAINED BY THE CONTRACTOR.
- 9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT PRIOR TO ORDERING PROJECT MATERIALS, THAT THE MOST CURRENT SET OF CONSTRUCTION DOCUMENTS HAVE BEEN OBTAINED FROM THE PROJECT ENGINEER INCLUDING, BUT NOT LIMITED TO, THE PERMITTED SET(S) FROM ALL APPLICABLE AGENCIES AS APPROPRIATE. THE PROJECT ENGINEER ACCEPTS NO RESPONSIBILITY FOR IMPROPER ORDERING OF MATERIALS.
- 10. ALL CONSTRUCTION MUST CONFORM TO THE LOCAL AUTHORITIES STANDARDS AND SPECIFICATIONS, WHETHER OR NOT REVIEW COMMENTS WERE MADE.
- 11. ALL PRIVATE AND PUBLIC PROPERTY, WHICH IS OFF-SITE OR IN EASEMENTS ON-SITE, THAT IS AFFECTED BY THIS WORK, SHALL BE RESTORED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN EXISTED BEFORE COMMENCING CONSTRUCTION WORK, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION TO BE ALLOWED.
- 12. NO BURIAL PITS OR BURNING WILL BE ALLOWED ON SITE WITHOUT PRIOR APPROVALS FROM THE PROPER PERMITTING AGENCIES AND DEKALB COUNTY.
- 13. CONTRACTOR SHALL PROVIDE THE TEMPORARY TRAFFIC CONTROL PLAN AND SUBMIT IT TO DCDWM A MINIMUM OF 2 WEEKS PRIOR TO THE START OF WORK REQUIRING THE TCP. WORK AND IMPLEMENTATION OF THE TCP MAY NOT BE INITIATED WITHOUT PRIOR APPROVAL FROM DCDWM. ALL TRAFFIC CONTROL AND WARNING DEVICES MUST BE SHOWN AND PLACED PER 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 14. CURB & GUTTER IMPROVEMENTS TO BE BUILT PER G.D.O.T. STANDARDS.
- 15. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THE DISCOVERY OF ANY GROUNDWATER, SUBSURFACE SEEPAGE OR SPRINGS DURING THE COURSE OF CONSTRUCTION. A GEOTECHNICAL INVESTIGATION WAS UNDERTAKEN TO IDENTIFY SUBSURFACE CONDITIONS INCLUDING THE PRESENCE OF GROUNDWATER. A COPY OF THIS REPORT IS INCLUDED AS AN ATTACHMENT TO THE SPECIFICATIONS, AND IS MARKED "FOR INFORMATION ONLY." INCLUSION OF THIS "FOR INFORMATION" REPORT DOES NOT RELIEVE THE CONTRACTOR OF HIS/HER OBLIGATIONS TO COLLECT ALL INFORMATION NECESSARY TO DETERMINE THE MEANS AND METHODS OF EXECUTING THE REQUIRED WORK.

- 16. THE CONTRACTC LOCAL PERMITS MAY INCLUDE, B PUBLIC UTILITY I DISTURBANCE P
- 17. CONTRACTOR SH CONDITIONS, AG ALL OTHER CON SUBMITTAL LOG CONSTRUCTION CONTRACT REQ

UTILITY NO

- 1. ACCOUNT FOR N NAME TOWARDS
- 2. CONTRACTOR S INSTALLATION O ASSOCIATED WI EXPENSE.
- ELECTRIC: GA PO LAND LOLI (706)
- WATER: DEK/ (404) GAS: ATLA THOM

770-9

SURVEY RE

SURVEY DATA WAS F MAKES NO GUARANT VALIDITY OF THE DA

SURVEY PREPARED

- SURVEYORS NOTE: 1. THE HORIZONTAL WEST 1002 REV.20 TO ORTHOMETRIC
- 2. ALL HORIZONTAL M OTHERWISE SPECIE
- 3. COORDINATE SYST USING TRIMBLE DO OPUS FOR POST PR
- 4. THE INFORMATION **RESULTS OF THE S**
- OVER GROUND INSPECTION

- 8. CONTOUR INTERVAL IS ONE (1) FOOT.
- CONTRACTOR.

GRADING NOTES:

- PLANS.

PR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY FROM THE LOCAL ISSUING AUTHORITY. LOCAL PERMITS UT NOT BE LIMITED TO A LAND DISTURBANCE PERMIT, PERMIT, WATER SERVICE PERMIT, AND A TREE ERMIT.	Image: Construction of the second s
ALL REFER TO THE GENERAL REQUIREMENTS, GENERAL GREEMENT, ITB, ADDENDA, TECHNICAL SPECIFICATIONS AND TRACT DOCUMENTS FOR REQUIREMENTS FOR SUBMITTAL, S, SUBMITTAL SCHEDULE, SCHEDULE OF VALUES, SCHEDULE, MEETINGS, AS-BUILT MARKUPS, AND OTHER	Chief Executive Officer DEPARTMENT OF PLANNING & SUSTAINABILITY Director Michael Thurmond Andrew A. Baker, AICP ***ENGINEER'SCERTIFICATE***
UIREMENTS. TES:	PROPOSED WATER QUALITY FACILITY
NATURAL GAS SHALL BE TRANSFERRED TO THE OWNER'S STHE END OF THE ONE (1) YEAR WARRANTY PERIOD.	I, GEORGE AJY, a registered professional engineer in the State of
HALL BE RESPONSIBLE FOR COORDINATION AND F NATURAL GAS SERVICE WITH AGL RESOURCES. ALL FEES TH SECURING NATURAL GAS SHALL BE PAID FROM CONTRACTOR'S OWER OON OLIVER VER@SOUTHERNCO.COM 814-8143	Georgia, hereby certify with my signature and seal, that the Water Quality facility (facilities) for the project known as KENSINGTON ROAD PUMP STATION AND PIPELINE PROJECT
ALB COUNTY WATERSHED MANAGEMENT 378-4475	Development/Building Permit No. <u>1244223</u> lying in Land Lot <u>251</u> of the District,
NTA GAS LIGHT WAS PARKS 94-6105	DeKalb County, has (have) been designed to comply with the approved plans and specifications, and in accordance with DeKalb County requirements.
	This, the THIRD day of NOVEMBER 20_20 Signature Georgia Degrature 26889
FERENCE: PROVIDED BY ENTITIES IDENTIFIED BELOW. ENGINEER EES OR REPRESENTATION REGARDING THE ACCURACY OR TA PRESENTED BY SURVEY PROFESSIONALS.	Georgia Registration No
BY : FS SURVEYING, P.O. BOC 2075, AIBONITO, P.R., 00705, TEL (787) 7465039	
CONTROL USED ON THIS PLAN ARE NAD 83 GEORGIA 11 EPOCH 2010:0000 AND ELEV. ARE REFERRED HEIGHT (NAVD '88 COMPUTED USING GEOID 2012B).	
IEASUREMENTS ARE IN US FEET UNLESS FIED.	
EM WAS ESTABLISHED BY GNSS OBSERVATIONS OUBLE FREQUENCY RECEIVERS AND NGS/NOAA ROCESSING.	
DEPICTED ON THIS PLAN REPRESENTS THE SURVEY PERFORMED ON THE DATE INDICATED.	

5. THE INFORMATION PROVIDED ON THIS PLAN SHOW ALL CURRENTLY EXISTING STRUCTURES, PROPERTIES AND UTILITIES ABOVE OR BELOW THE GROUND AS REVEALED BY OBSERVABLE EVIDENCE

6. SOLID UTILITY LINES ARE SHOWN PER SITE PLANS AND ARE APPROXIMATE BASED ON ABOVE GROUND STRUCTURES AND INFORMATION PROVIDED TO THE SURVEYOR, NOT FIELD LOCATED.

7. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES OR STRUCTURES MAY EXIST. THE SURVEYOR MAKES NO CERTIFICATION AS TO THE ACCURACY AND COMPLETENESS OF THE LOCATIONS SHOWN HEREON.

9. PROPERTY LIMITS AS SHOWN ON THESE DRAWINGS ARE BASED ON PUBLIC GIS INFORMATION AND MAY NEED ADDITIONAL FIELD DELINEATION BY THE

1. MAXIMUM CUT-FILL SLOPES SHALL BE 3H:1V EXCEPT WHERE NOTED ON THE

2. EXCAVATION WORK SHALL BE DONE IN ACCORDANCE WITH D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.

RIVER TO TAP 1841 PEELER RD. UNIT C ATLANTA, GA 30338 PHONE: (678) 336-5721 WWW.R2TINC.COM								
CLIENT:	DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT Dekalb county, georgia							
PROJECT:		KENSINGTON ROAD PUMP STATION & PIPELINE PROJECT 2010 R2T INC.						
REV DATE DESCRIPTION	0 9/25/20 ISSUED FOR CONSTRUCTION	1 11/3/20 LDP COMMENTS	2 12/4/20 LDP COMMENTS					
STAMP: STAMP: STAMP: STAMP: SHEET TITLE: STAMP: SHEET TITLE: STAMP: ST								
GENERAL NOTES ISSUED: NOVEMBER 03, 2020 PROJECT NO. 14-902883 SCALE: NONE CHKD BY: AR DESIGNED BY: JRC DRAWN BY: JRC								
G-03								



APPROVED

1244223 ΔP DATE_____01/11/21 This Department is not responsible for any errors or omissions by engineers or other design professionals on design or county code requirements of this project

The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any violation of any of the provisions of applicable codes or of any other ordinance of the jurisdiction. Permits presuming to give authority to violate or cancel the

provisions of applicable codes or any other

ordinance of the jurisdiction shall not be valid. The documents and other data shall not prevent the GEORGIA CERTIFICATE OF AUTHORIZATION ON Pl Razing, McGanical, Gas, and Electrical sections LICENSE NO. PEFO024653 been reviewed for compliance with technical codes and will be EXPIRATED Reflect LEinghage 2022

Development Services.

1. DESIGN CRITERIA		
1.1. GOVERNING CODES:	2.7. PRIOR TO CORING, L	
1.1.1. 2018 INTERNATIONAL BUILDING CODE (IBC)	CONCRETE OR MAS	
1 1 2 2020 STATE OF GEORGIA AMENDMENTS TO THE IBC	LIMITED TO, REINFO	
	TECHNOLOGY (SUCH	
1.1.3. ASCE/ SEI 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER	TO AVOID HITTING E	
STRUCTURES		
1.1.4. ALL OTHER APPLICABLE LOCAL AGENCIES		
1.2. ALL LOADS SHOWN ARE UNFACTORED VALUES AS ESTABLISHED BY IBC, UNLESS	2.8. FOR COMPONENTS /	
OTHERWISE INDICATED I OADS SHALL BE FACTORED IN ACCORDANCE WITH IBC	SENSITIVE TO AND A	
	VERIFY DIMENSIONS	
USING THE STRENGTH DESIGN LUAD COMBINATIONS OR ALLOWABLE STRESS	COMPONENTS AND	
DESIGN (BASIC) LOAD COMBINATIONS. ALTERNATIVE BASIC LOAD COMBINATIONS		
SHALL NOT BE USED.	2.9. THE CONTRACTOR I	
	TECHNIQUES, SEQU	
1.3. FOR ADDITIONAL LOADS AND CRITERIA, SEE STRUCTURE-SPECIFIC DRAWINGS	ADEQUACY AND SAF	
(PLANS).		
1.4. RISK CATEGORY III	SUPPORTS, ETC.	
1.5 DEAD LOADS'	2.10. STRUCTURES SHOW	
	UNDER FINAL COND	
1.6. FLOOR LIVE LOADS (UNIFORM / CONCENTRATED) AND DEFLECTION CRITERIA:		
1.6.1. TYPICAL, UON 100 PSF		
1.6.2 FLOOR DOORS / HATCHES 300 PSE	STABILITY OF THE S	
	RESPONSIBLE FOR A	
	METHODS BRACING	
1.7.1. GROUND SNOW LOAD, Pg 5 PSF		
1.8. WIND DESIGN PARAMETERS:	UTHER WORK AIDS I	
	2.11. REVIEW OF SUBMITT	
	CONTRACTOR OF TH	
1.8.2. BASIC (ULTIMATE) DESIGN WIND SPEED (3-SECOND GUST), V 115 MPH		
1.8.3. ALLOWABLE STRESS DESIGN WIND	BEFORE SUBMITTING	
SPEED (3-SECOND GUST) Vasd 80 MPH	RESPONSIBLE FOR E	
	PREPARATION OF SU	
1.8.4. EXPOSURE C		
1.8.5. IMPORTANCE FACTOR, Iw		
1.8.6. INTERNAL PRESSURE COFFEICIENT GCpi 0.00 LION	DOCUMENTS.	
	2.12. VISITS TO THE JOB S	
PRESSURES, SEE PLANS.		
1.9 FARTHQUAKE DESIGN PARAMETERS	WORK, NOR RESPOR	
	COORDINATION, SUF	
1.9.1. MAPPED SPECTRAL RESPONSE ACCELERATIONS,	2 13 WHERE DRAWINGS	
1.9.1.1. SHORT PERIODS, SS		
1.9.1.2. 1-SECOND PERIOD. S1	REQUIREMENT SHAL	
1.9.2. DESIGN SPECTRAL RESPONSE ACCELERATIONS		
1.9.2.1. SHORT PERIODS, SDS	J. INSPECTIONS AN	
1.9.2.2. 1-SEC PERIOD. SD1	3.1. INSPECTION AND TE	
1.9.4. SEISMIC DESIGN CATEGORY C	TESTING, AND ADDI	
1.9.5. IMPORTANCE FACTOR. le	AND TESTING.	
	3.2. INSPECTION AND TE	
1.9.7. ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE, UON	OTHERWISE NOTED.	
1.9.8. FOR PRE-ENGINEERED CONTRACTOR-DESIGNED STRUCTURES. THE	3.4. INSPECTIONS REQU	
FOUL OWING SEISMIC CRITERIA SHALL BE DETERMINED BY THE		
MANUFACTURER, UON: FRAMING SYSTEM, SEISMIC FORCE-RESISTING	3.5. SPECIAL INSPECTION	
SYSTEM RESPONSE MODIFICATION FACTOR (R) RESPONSE COFFICIENT	THROUGH AN ALLOV	
(C_{S}) AND BASE SHEAR (V)		
(Cs) AND BASE SHEAR (V).	AGENCY TO PERFOR	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS:	AGENCY TO PERFOR STATEMENT OF SPE	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY:	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTIO	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1. TYPICAL UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION	
 (Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON 2,000 PSF 	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON 2,000 PSF 1.10.1.2. WET WELL 3,500 PSF	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH	
 (Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1.1 REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS.	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7 SPECIFIED LABORAT	
 (Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON 2,000 PSF 1.10.1.2. WET WELL	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT	
 (Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON 2,000 PSF 1.10.1.2. WET WELL 3,500 PSF 1.10.2. DESIGN GROUND WATER ELEVATION: 961.00 FT 1.10.3. DESIGN SOIL UNIT WEIGHT 125 PCF 1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES 	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V	
 (Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON 2,000 PSF 1.10.1.2. WET WELL 3,500 PSF 1.10.2. DESIGN GROUND WATER ELEVATION: 961.00 FT 1.10.3. DESIGN SOIL UNIT WEIGHT 125 PCF 1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 250 PCF 	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE	
 (Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV	
(Cs) AND BASE SHEAR (V).1.10.SOIL DESIGN PARAMETERS:1.10.1.REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY:1.10.1.1.TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV	
<th and="" column="" end="" line="" of="" td="" the="" the<=""><td>AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC</td></th>	<td>AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC</td>	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC
(Cs) AND BASE SHEAR (V).1.10.SOIL DESIGN PARAMETERS:1.10.1.REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY:1.10.1.1.TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L	
(Cs) AND BASE SHEAR (V).1.10. SOIL DESIGN PARAMETERS:1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY:1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1 CONCRETE MAT	
(Cs) AND BASE SHEAR (V).1.10. SOIL DESIGN PARAMETERS:1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY:1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT	
(Cs) AND BASE SHEAR (V).1.10.SOIL DESIGN PARAMETERS:1.10.1.REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY:1.10.1.1.TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS (
(Cs) AND BASE SHEAR (V).1.10. SOIL DESIGN PARAMETERS:1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY:1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS (3.7.3. SOIL FILL, BACK	
(Cs) AND BASE SHEAR (V).1.10.SOIL DESIGN PARAMETERS:1.10.1.REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY:1.10.1.1.TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS (3.7.3. SOIL FILL, BACK 3.7.4 SEISMIC QUALIE	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS (3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF	
(Cs) AND BASE SHEAR (V).1.10.SOIL DESIGN PARAMETERS:1.10.1.REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY:1.10.1.1.TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS.	
(Cs) AND BASE SHEAR (V).1.10. SOIL DESIGN PARAMETERS:1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY:1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING	
(Cs) AND BASE SHEAR (V).1.10. SOIL DESIGN PARAMETERS:1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY:1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING	
Construction of the construction of t	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3	
(Cs) AND BASE SHEAR (V).1.10. SOIL DESIGN PARAMETERS:1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY:1.10.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3 CONTRACTOR. SPEC	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONTRACTOR. SPEC	
(Cs) AND BASE SHEAR (V).1.10.SOIL DESIGN PARAMETERS:1.10.1.REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY:1.10.1.1.TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONTRACTOR. SPEC LIMITED TO: 3.8.4 DOST INICIDALLES	
(Cs) AND BASE SHEAR (V).1.10.SOIL DESIGN PARAMETERS:1.10.1.REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY:1.10.1.1.TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLE	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONFORMANCE TO S CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLE 3.8.2. VACUUM (LIQUIT	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONFORMANCE TO S C C S C S C S C S C S C S C S C S C S	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLE 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLE 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE BY THE CONTRACTOR	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLE 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE BY THE CONTRACTO 3.10. SPECIAL INSPECTION	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1. TYPICAL, UON 2,000 PSF 1.10.1. WET WELL 3,500 PSF 1.10.2. WET WELL 1.10.3. DESIGN GROUND WATER ELEVATION: 961.00 FT 1.10.3. DESIGN GROUND WATER ELEVATION: 961.00 FT 1.10.4. VET WELL 1.10.5. ANGLE OF INTERNAL FRICTION, φ 961.00 FT 30 DEG 1.10.6. COEFFICIENT OF LATERAL EARTH PRESSURE (LEVEL BACKFILL): 1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka 1.10.6.2. AT-REST (RESTRAINED WALLS), Ka 1.10.6.3. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp 1.10.6.3. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp 1.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 1.10.7. COEFFICIENT OF SLIDING FRICTION (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE FRICTION), μ 1.10.8. MODULUS OF SUBGRADE REACTION 1.10.8. MODULUS OF SUBGRADE REAC	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONFORMANCE TO S CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLES 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE BY THE CONTRACTOR 3.10. SPECIAL INSPECTION SECTION 1704 2 4 OF	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS BY TH BOTH INSPECTIONS BY TH BOTH INSPECTIONS 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS C 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLEI 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE BY THE CONTRACTOC 3.10. SPECIAL INSPECTION SECTION 1704.2.4 OF OFEICIAL DEPODE TO	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS INSPECTIONS BY TH BOTH INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3 CONFORMANCE TO 3 CO	
(CS) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS INSPECTIONS BY TH BOTH INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3 CONFORMANCE TO 3 CO	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. TYPICAL, UON 2.000 PSF 1.10.1.1. TYPICAL, UON 3.500 PSF 1.10.1.2. WET WELL 1.10.3. DESIGN GROUND WATER ELEVATION: 961.00 FT 1.10.3. DESIGN SOIL UNIT WEIGHT 1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 250 PCF 1.10.6. COEFFICIENT OF LATERAL EARTH PRESSURE (LEVEL BACKFILL): 1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka 0.10.6.2. AT-REST (RESTRAINED WALLS), Ka 0.33 1.10.6.3. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp 2.00 1.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 1.10.7. COEFFICIENT OF SLIDING FRICTION (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE FRICTION), μ 1.10.8. MODULUS OF SUBGRADE REACTION 1.11.1. FROST DEPTH 1.12.1. LIQUID DENSITIES: RAW SEWAGE 1.13. SPECIAL LOADS: 1.14.1. HYDRAULC LOADS: 1.15.1. LIQUID DENSITIES: RAW SEWAGE 1.16.2. DESIGN WATER SURFACE ELEVATION SEE PLANS 1.13. SPECIAL LOADS: <	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLEI 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE BY THE CONTRACTO 3.10. SPECIAL INSPECTION SECTION 1704.2.4 OF OFFICIAL PRIOR TO OCCUPANCY.	
(Cs) AND BASE SHEAR (V).1.10. SOIL DESIGN PARAMETERS:1.10.1. TYPICAL, UON1.10.1. TYPICAL, UON2.000 PSF1.10.1. TYPICAL, UON1.10.2. DESIGN GROUND WATER ELEVATION:961.00 FT1.10.3. DESIGN SOIL UNIT WEIGHT1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES(EQUIVALENT OF 2 FT OF SOIL)250 PCF1.10.6. ANGLE OF INTERNAL FRICTION, φ 30 DEG1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka0.501.10.6.2. AT-REST (RESTRAINED WALLS), Ka0.10.6.3. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp1.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON.1.10.7. COEFFICIENT OF SUBING FRICTION (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE FRICTION), μ 1.10.8. MODULUS OF SUBGRADE REACTION1.10.9. MODULUS OF SUBGRADE REACTION1.12.1. LIQUID DENSITIES: RAW SEWAGE1.12.1. LIQUID DENSITIES: RAW SEWAGE1.13. SPECIAL LOADS:1.14.1. DESIGN WATER SURFACE ELEVATION2.1. DESIGN AND STANDARD DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT.2.2. COORDINATE STRUCTURAL DRAWINGS WITH OTHER DISCIPLINE DRAWINGS AND	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS INSPECTIONS BY TH BOTH INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLEI 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE BY THE CONTRACTO 3.10. SPECIAL INSPECTION SECTION 1704.2.4 OF OFFICIAL PRIOR TO OCCUPANCY.	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON 2.000 PSF 1.10.1.2. WET WELL 3.500 PSF 1.10.2. DESIGN GROUND WATER ELEVATION: 961.00 FT 1.10.3. DESIGN SOIL UNIT WEIGHT 1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 1.10.5. ANGLE OF INTERNAL FRICTION, φ 30 DEG 1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka 0.50 1.10.6.2. AT-REST (RESTRAINED WALLS), Ka 0.10.6.3. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp 0.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 1.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 1.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 1.10.7. COEFFICIENT OF SUBGRADE REACTION	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS INSPECTIONS BY TH BOTH INSPECTIONS 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLEI 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE BY THE CONTRACTO 3.10. SPECIAL INSPECTION SECTION 1704.2.4 OF OFFICIAL PRIOR TO OCCUPANCY. 4. DEFERRED SUBM	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON 2.000 PSF 1.10.1.2. WET WELL 3.500 PSF 1.10.2. DESIGN GROUND WATER ELEVATION: 961.00 FT 1.10.3. DESIGN SOIL UNIT WEIGHT 1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 1.10.5. ANGLE OF INTERNAL FRICTION, φ 1.10.6. COEFFICIENT OF LATERAL EARTH PRESSURE (LEVEL BACKFILL): 1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka 1.10.6.2. AT-REST (RESTRAINED WALLS), Ka 1.10.6.3. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp 1.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 1.10.7. COEFFICIENT OF SLIDING FRICTION (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE FRICTION), μ 1.10.8. MODULUS OF SUBGRADE REACTION 1.11.1. FROST DEPTH 1.12.1. LIQUID DENSITIES: RAW SEWAGE 1.13. SPECIAL LOADS: 1.14.1. HORAULIC LOADS: 1.13. SPECIAL LOADS: 1.13. SPECIAL LOADS: 1.14.1. LIQUID DENSITIES: RAW SEWAGE 2.1.1.12. LIQUID DENSITIES: RAW SEWAGE	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLEI 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE BY THE CONTRACTO 3.10. SPECIAL INSPECTION SECTION 1704.2.4 OF OFFICIAL PRIOR TO OCCUPANCY. 4. DEFERRED DESIGN	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON 2.000 PSF 1.10.1.2. WET WELL 3.500 PSF 1.10.2. DESIGN GROUND WATER ELEVATION: 961.00 FT 1.10.3. DESIGN SOIL UNIT WEIGHT 1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 250 PCF 1.10.5. ANGLE OF INTERNAL FRICTION, φ 30 DEG 1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka 1.10.6.2. AT-REST (RESTRAINED WALLS), Ka 0.10.6.3. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp 1.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 1.10.7. COEFFICIENT OF SLIDING FRICTION (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE FRICTION), μ 1.10.8. MODULUS OF SUBGRADE REACTION 120 PCI 1.11.1. FROST DEPTH 121 IN. 1.12.1. LIQUID DENSITIES: RAW SEWAGE SEE PLANS 1.13. SPECIAL LOADS: SEE PLANS 1.13. SPECIAL LOADS: SEE PLANS 1.14. HYDRAULIC LOADS: SEE PLANS 1.15. SPECIAL LOADS: SEE PLANS 1.16.	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLE 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE BY THE CONTRACTO 3.10. SPECIAL INSPECTION SECTION 1704.2.4 OF OFFICIAL PRIOR TO OCCUPANCY. 4. DEFERRED DESIGN I	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON 2,000 PSF 1.10.1.2. WET WELL 3,500 PSF 1.10.2. DESIGN GROUND WATER ELEVATION: 961.00 FT 1.10.3. DESIGN SOIL UNI WEIGHT 125 PCF 1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 1.10.5. ANGLE OF INTERNAL FRICTION, φ 250 PCF 1.10.6. COEFFICIENT OF LATERAL EARTH PRESSURE (LEVEL BACKFILL): 1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka 0.30 1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka 0.33 0.106.3. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp 2.00 1.10.6.3. PASSIVE (INCLUDING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 2.00 1.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 1.10.7. COEFFICIENT OF SLIDING FRICTION (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE FRICTION), μ 0.27 1.10.8. MODULUS OF SUBGRADE REACTION 120 PCI 121 N. 1.11. FROST DEPTH 121 N. 121 N. 1.12. HYDRAULIC LOADS: 121 N. 121 N. 1.13. SPECIAL LOADS: SEE PLANS SEE PLANS	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLE 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE BY THE CONTRACTOR 3.10. SPECIAL INSPECTION SECTION 1704.2.4 OF OFFICIAL PRIOR TO OCCUPANCY. 4. DEFERRED DESIGN THE CONTRACTOR'S	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON 2.000 PSF 1.10.1.2. WET WELL 3.500 PSF 1.10.2. DESIGN GROUND WATER ELEVATION: 961.00 FT 1.10.3. DESIGN SOIL UNIT WEIGHT 1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 1.10.6. COEFFICIENT OF LATERAL FARCITION, φ 1.10.6. COEFFICIENT OF LATERAL EARTH PRESSURE (LEVEL BACKFILL): 1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka 1.10.6.2. AT-REST (RESTRAINED WALLS), Ka 0.10.6.3. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp 1.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 1.10.7. COEFFICIENT OF SLIDING FRICTION (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE FRICTION), μ 1.10.8. MODULUS OF SUBGRADE REACTION 1.10.8. MODULUS OF SUBGRADE REACTION 1.11.1. FROST DEPTH 1.12. HYDRAULIC LOADS: 1.13. SPECIAL LOADS: 1.14. LIQUID DENSITIES: RAW SEWAGE 1.15. 1.16.8. COEFFICIENT OF THE SURFACE ELEVATION 1.11. FROST DEPTH 1.12. LIQUID DENSITIES: RA	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLE 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE BY THE CONTRACTOR 3.10. SPECIAL INSPECTION SECTION 1704.2.4 OF OFFICIAL PRIOR TO OCCUPANCY. 4. DEFERRED DESIGN I THE CONTRACTOR'S ENGINEER-OF-RECO	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON 2.000 PSF 1.10.1.2. WET WELL 2.100 FT 1.10.1.3. DESIGN GROUND WATER ELEVATION: 961.00 FT 1.10.2. DESIGN GROUND WATER ELEVATION: 961.00 FT 1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 1.10.5. ANGLE OF INTERNAL FRICTION, φ 1.10.6. COEFFICIENT OF LATERAL EARTH PRESSURE (LEVEL BACKFILL): 1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka 1.10.6.2. AT-REST (RESTRAINED WALLS), Ka 0.10.6.3. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp 1.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 1.10.7. COEFFICIENT OF SLIDING FRICTION (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE FRICTION), μ 1.10.8. MODULUS OF SUBGRADE REACTION 1.11.1. FROST DEFTH 1.12.1. LIQUID DENSITIES: RAW SEWAGE 1.12.2. DESIGN AND STANDARD DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR STUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT. 2.2. COORDINATE STRUCTURAL DRAWINGS WITH OTHER DISCIPLINE DRAWINGS AND WITH PROJECT SPECIFICATIONS. NOTIFY THE ENGI	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3 CONFORMANCE TO 3 CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLEI 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE BY THE CONTRACTO 3.10. SPECIAL INSPECTION SECTION 1704.2.4 OF OFFICIAL PRIOR TO OCCUPANCY. 4. DEFERRED DESIGN I THE CONTRACTOR'S ENGINEER-OF-RECO ENGINFER SHALL ME	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON 2.000 PSF 1.10.1.2. WET WELL 3.500 PSF 1.10.2. DESIGN SOIL UNIT WEIGHT 1.10.3. DESIGN SOIL UNIT WEIGHT 1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 2.50 PCF 1.10.6. COEFFICIENT OF LATERAL FARITH PRESSURE (LEVEL BACKFILL): 1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka 1.10.6.2. AT-REST (RESTRAINED WALLS), Ka 0.33 1.10.6.3. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp 1.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 1.10.7. COEFFICIENT OF SLIDING FRICTION (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE FRICTION), μ 1.10.8. MODULUS OF SUBGRADE REACTION 1.10.8. MODULUS OF SUBGRADE REACTION 1.11.1. FROST DEPTH 1.12.1. LIQUID DENSITIES: RAW SEWAGE 1.13. SPECIAL LOADS: 1.14. HYDRAULIC LOADS: 1.15. SPECIAL LOADS: 1.16.1. FROST DEPTH 2.10.1.1.1. FROST DEPTH 1.11.1. FROST DEPTH 1.12.1. LIQUID DENSITI	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3 CONFORMANCE TO 3 CONFORMA	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON 2.000 PSF 1.10.1.2. WET WELL 3.500 PSF 1.10.2. DESIGN SOIL UNIT WEIGHT 1.10.3. DESIGN SOIL UNIT WEIGHT 1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 250 PCF 1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 30 DEG 1.10.6. COEFFICIENT OF LATERAL EARTH PRESSURE (LEVEL BACKFILL): 1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka 30 DEG 1.10.6.2. AT-REST (RESTRAINED WALLS), Ka 31.10.6.3. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp 2.00 1.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 1.10.7. COEFFICIENT OF SLIDING FRICTION (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE FRICTION), μ 1.10.8. MODULUS OF SUBGRADE REACTION 1.11.1. HYDRAULIC LOADS: 1.12.1. LIQUID DENSITIES: RAW SEWAGE 1.12.1. LIQUID DENSITIES: RAW SEWAGE 1.13. SPECIAL LOADS: 1.13. SPECIAL LOADS: 1.13. SPECIAL LOADS:	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS BOTH INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3 CONFORMANCE TO 3 CON	
(CS) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1. TYPICAL, UON 1.10.1. TYPICAL, UON 1.10.1. TYPICAL, UON 961.00 FT 1.10.2. WET WELL 951.00.2 1.10.3. DESIGN SOIL UNIT WEIGHT 961.00 FT 1.10.3. DESIGN SOIL UNIT WEIGHT 961.00 FT 1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 1.10.5. ANGLE OF INTERNAL FRICTION, φ 250 PCF 1.10.6. COEFFICIENT OF LATERAL EARTH PRESSURE (LEVEL BACKFILL): 1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka 0.50 1.10.6.2. AT-REST (RESTRAINED WALLS), Ka 0.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 1.10.7. COEFFICIENT OF SUBGRADE REACTION (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE FRICTION), μ 1.10.8. MODULUS OF SUBGRADE REACTION 1.10.9. HYDRAULIC LOADS: 1.12.1. LIQUID DENSITIES: RAW SEWAGE 1.12.2. DESIGN AND STANDARD DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT.	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS BOTH INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3 CONFORMANCE TO 3 CON	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQURED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1. TYPICAL, UON 2,000 PSF 1.10.1. TYPICAL, UON 961.00 FT 1.10.2. DESIGN GROUND WATER ELEVATION: 961.00 FT 1.10.3. DESIGN SOIL UNIT WEIGHT 125 PCF 1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 250 PCF 1.10.6. COEFFICIENT OF LATERAL EARTH PRESSURE (LEVEL BACKFILL): 1.10.61. ACTIVE (UNRESTRAINED WALLS), Ka 0.50 1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka 0.33 1.10.63. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp 0.20 1.10.6.3. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp 0.27 1.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 0.27 1.10.7. COEFFICIENT OF SUBGRADE REACTION (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE FRICTION), μ 0.27 1.10.8. MODULUS OF SUBGRADE REACTION 120 PCI 1.11. HYDRAULIC LOADS: 121 N. 1.12. LIQUID DENSITIES: RAW SEWAGE 63 PCF 1.12.1. LIQUID DENSITIES: RAW SEWAGE 63 PCF 1.12.2. DESIGN WATER SURFACE ELEVATION SEE PLANS	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS BY TH BOTH INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3 CONFORMANCE TO 3 CONFORMANCE TO 3 CONFORMANCE TO 3 CONFORMANCE TO 3 CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLEE 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE BY THE CONTRACTO 3.10. SPECIAL INSPECTION SECTION 1704.2.4 OF OFFICIAL PRIOR TO OCCUPANCY. 4.1. DEFERRED DESIGN I THE CONTRACTOR'S ENGINEER-OF-RECO ENGINEER SHALL ME SPECIFIED: 4.1.1. CIVIL OR STRUC PRO.IECT WILL F	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1. TYPICAL, UON 2.000 PSF 1.10.1. TYPICAL, UON 961.00 FT 1.10.2. WET WELL 951.00.2 951.00 FT 1.10.3. DESIGN SOIL UNIT WEIGHT 961.00 FT 1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 250 PCF 1.10.6. COEFFICIENT OF LATERAL EARTH PRESSURE (LEVEL BACKFILL): 1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka 0.10.6.2. AT-REST (RESTRAINED WALLS), Ka 0.10.6.3. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp 1.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 1.10.7. COEFFICIENT OF SUBGRADE REACTION (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE FRICTION), μ 1.10.8. MODULUS OF SUBGRADE REACTION 120 PCI 1.11.1. FROST DEPTH 121 NI. 1.12.1 LIQUID DENSITIES: RAW SEWAGE 63 PCF 1.12.2. DESIGN AND STANDARD DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT. 2.2. COORDINATE STRUCTURAL DRAW	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTION INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3 CONFORMANCE TO 3	
(Cs) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQURED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1. TYPICAL, UON 2.000 PSF 1.10.1. TYPICAL, UON 2.10.1. WET WELL 3.500 PSF 1.10.2. WET WELL 3.500 PSF 1.10.3. DESIGN SOIL UNIT WEIGHT 1.0.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2FT OF SOIL) 2.50 PCF 1.10.6. ACTIVE (UNRESTRAINED WALLS), Ka 1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka 1.10.6.2. AT-REST (RESTRAINED WALLS), Ka 1.10.6.3. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGRGE SOIL), Kp 2.00 1.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 1.10.7. COEFFICIENT OF SUBGRADE REACTION (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE FRICTION), μ 1.10.8. MODULUS OF SUBGRADE REACTION 1.10.9. MODULUS OF SUBGRADE REACTION 1.11.1. HYDRAULIC LOADS: 1.12.1. LIQUID DENSITIES: RAW SEWAGE 1.12.2. DESIGN AND STANDARD DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT. 2.2. COORDINATE STRUCTURAL DRAWINGS WITH OTHE	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS BY TH BOTH INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLEI 3.8.2. VACUUM (LIQUII 3.9. INSPECTION AND TE BY THE CONTRACTOR 3.10. SPECIAL INSPECTION SECTION 1704.2.4 OF OFFICIAL PRIOR TO OCCUPANCY. 4. DEFERRED DESIGN 4.1. DEFERRED DESIGN THE CONTRACTORS ENGINEER-OF-RECO ENGINEER SHALL ME SPECIFIED: 4.1.1. CIVIL OR STRUCC PROJECT WILL E 4.1.2. EXPERIENCED II	
(Cs) AND BASE SHEAR (V). 1.10. SOLD DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOLD BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS BY TH BOTH INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3 CONFORMANCE TO 3 CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLEI 3.8.2. VACUUM (LIQUII 3.9. INSPECTION AND TE BY THE CONTRACTOR 3.10. SPECIAL INSPECTION SECTION 1704.2.4 OF OFFICIAL PRIOR TO 0 OCCUPANCY. 4. DEFERRED DESIGN 1 THE CONTRACTOR'S ENGINEER-OF-RECO ENGINEER SHALL ME SPECIFIED: 4.1.1. CIVIL OR STRUC PROJECT WILL E 4.1.2. EXPERIENCED II DESIGNED AT A	
(Cs) AND BASE SHEAR (V). 1.10. SOLD DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOLL BEARING PRESSURE CAPACITY: 1.10.1. REQUIRED ALLOWABLE SOLL BEARING PRESSURE CAPACITY: 1.10.1. REQUIRED ALLOWABLE SOLL BEARING PRESSURE CAPACITY: 1.10.1. TYPICAL UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS BY TH BOTH INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3 CONFORMANCE TO 3 CONFORMANCE TO 3 CONFORMANCE TO 3 CONFORMANCE TO 3 CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLE 3.8.2. VACUUM (LIQUII 3.9. INSPECTION AND TE BY THE CONTRACTOR 3.10. SPECIAL INSPECTION SECTION 1704.2.4 OF OFFICIAL PRIOR TO 7 OCCUPANCY. 4.1. DEFERRED DESIGN 1 THE CONTRACTOR'S ENGINEER-OF-RECO ENGINEER SHALL ME SPECIFIED: 4.1.1. CIVIL OR STRUC PROJECT WILL E 4.1.2. EXPERIENCED II DESIGNED AT A AND SCOPE WIT	
(Cs) AND BASE SHEAR (V). 1.10. SOLD DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOLI BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS BOTH INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3 CONFORMANCE TO 3 CON	
(Cs) AND BASE SHEAR (V). 1.10. SOLD DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOLL BEARING PRESSURE CAPACITY: 1.10.1. REQUIRED ALLOWABLE SOLL BEARING PRESSURE CAPACITY: 1.10.1. REQUIRED ALLOWABLE SOLL BEARING PRESSURE CAPACITY: 1.10.1. VERTWELL	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS BOTH INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3 CONFORMANCE TO 3 S.8.1. POST-INSTALLE 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE BY THE CONTRACTO 3.10. SPECIAL INSPECTION SECTION 1704.2.4 OF OFFICIAL PRIOR TO 0 OCCUPANCY. 4.1. DEFERRED DESIGN 1 THE CONTRACTOR'S ENGINEER-OF-RECO ENGINEER SHALL ME SPECIFIED: 4.1.1. CIVIL OR STRUC PROJECT WILL E 4.1.2. EXPERIENCED II DESIGNED AT A AND SCOPE WIT 4.2. DEFERRED SUBMITT	
(Cs) AND BASE SHEAR (V). 1.10. SOLD DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOL BEARING PRESSURE CAPACITY: 1.10.1.1 TYPICAL, UON 2.000 PSF 1.10.1.2 WET WELL 1.10.1.3 DESIGN GROUND WATER ELEVATION: 961.00 FT 1.10.3 DESIGN SOLUNIT WEIGHT 1.10.4 VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 1.10.4 VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 1.10.6.1 ACTIVE (UNRESTRAINED WALLS), Ka 1.10.6.2 AT-REST (RESTRAINED WALLS), Ka 1.10.6.3 PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp 1.10.6.4 EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 1.10.7 COEFFICIENT OF LAUVEMENT TO ENGAGE FRICTION), μ 0.27 1.10.8 MODULUS OF SUBGRADE REACTION 120 PCI 1.11.1 FROST DEPTH 121 NI 1.12.1 HYDRAULIC LOADS: 121 NI 1.12.1 HYDRAULIC LOADS: 55E PLANS 1.13 SPECIAL LOADS: 55E PLANS 1.14 HYDRAULIC LOADS	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3 CONFORMANCE TO 3 CONFORMA	
(Gs) AND BASE SHEAR (V). 1.10. SOLD DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.2. WET WELL 3.500 PSF 1.10.2. DESIGN GROUND WATER ELEVATION: 961.00 FT 1.10.3. DESIGN SOIL UNIT WEIGHT 1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 250 PCF 1.10.6. COEFFICIENT OF LATERAL EARTH PRESSURE (LEVEL BACKFILL): 1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka 0.50 1.10.6.2. AT.REST (RESTRAINED WALLS), Ka 0.33 1.10.6.3. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp 2.00 1.10.6.4. EARTH RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON 2.00 1.10.6. COEFFICIENT OF SLIDING FRICTION (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE FRICTION), μ 0.27 1.10.8. MODULUS OF SUBGRADE REACTION 120 PCI 1.11. FROST DEPTH 121 N 1.21. LIQUID DENSITIES: RAW SEWAGE 63 PCF 1.12.1	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3 CONFORMANCE TO 3 CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLEI 3.8.2. VACUUM (LIQUII 3.9. INSPECTION AND TE BY THE CONTRACTOR 3.10. SPECIAL INSPECTION SECTION 1704.2.4 OF OFFICIAL PRIOR TO 0 OCCUPANCY. 4. DEFERRED DESIGN 1 THE CONTRACTOR'S ENGINEER-OF-RECO ENGINEER SHALL ME SPECIFIED: 4.1.1. CIVIL OR STRUC PROJECT WILL E 4.1.2. EXPERIENCED II DESIGNED AT A AND SCOPE WIT 4.2. DEFERRED SUBMITT SUBMITTED AT THE SUBMITTED AT THE	
(C3) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1. TYPICAL, UON	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS BOTH INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3 CONFORMANCE TO 3 CONFORMANCE TO 3 CONFORMANCE TO 3 CONFORMANCE TO 3 CONFORMANCE TO 3 CONFORMANCE TO 3 CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLE 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE BY THE CONTRACTOR 3.10. SPECIAL INSPECTION SECTION 1704.2.4 OF OFFICIAL PRIOR TO 0 OCCUPANCY. 4. DEFERRED DESIGN I THE CONTRACTOR'S ENGINEER-OF-RECO ENGINEER SHALL ME SPECIFIED: 4.1.1. CIVIL OR STRUC PROJECT WILL E 4.1.2. EXPERIENCED II DESIGNED AT A AND SCOPE WIT 4.2. DEFERRED SUBMITT SUBMITTED AT THE SUBMITTED AT THE	
 (G3) AND BASE SHEAR (V). 1.10. SOLDESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOLD BEARING PRESSURE CAPACITY: 1.10.1.1. REQUIRED ALLOWABLE SOLD BEARING PRESSURE CAPACITY: 1.10.1.2. WET WELL	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS BY TH BOTH INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO SHALL BE FURNISHE SUBMITTED FOR REA THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO S CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLE 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE BY THE CONTRACTOR SECTION 1704.2.4 OF OFFICIAL PRIOR TO OCCUPANCY. 4. DEFERRED DESIGN 4.1. DEFERRED DESIGN THE CONTRACTOR'S ENGINEER-OF-RECO ENGINEER SHALL ME SPECIFIED: 4.1.1. CIVIL OR STRUCC PROJECT WILL E 4.1.2. EXPERIENCED IN DESIGNED AT A AND SCOPE WIT 4.2. DEFERRED SUBMITT SUBMITTED TO THE	
(C3) AND BASE SHEAR (V). 1.10. SOIL DESIGN PARAMETERS: 1.10.1. REQUIRED ALLOWABLE SOIL BEARING PRESSURE CAPACITY: 1.10.1.1. TYPICAL, UON 2.000 PSF 1.10.2. WET WELL 3.500 PSF 1.10.3. DESIGN GROUND WATER ELEVATION: 961.00 FT 1.10.3. DESIGN GROUND WATER ELEVATION: 961.00 FT 1.10.4. VERTICAL SURCHARGE LIVE LOAD ON EARTH RETAINING STRUCTURES (EQUIVALENT OF 2 FT OF SOIL) 1.10.6. COEFFICIENT OF LATERAL EARTH PRESSURE (LEVEL BACKFILL): 1.10.6. COEFFICIENT OF LATERAL EARTH PRESSURE (LEVEL BACKFILL): 1.10.6.1. ACTIVE (UNRESTRAINED WALLS), Ka 0.33 1.10.6.2. ATREST (RESTRAINED WALLS), Ka 0.33 1.10.6.3. PASSIVE (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENGAGE SOIL), Kp 2.00 1.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST CONDITIONS, UON. 2.01 1.10.6.4. EARTH-RETAINING STRUCTURES ARE DESIGNED FOR AT-REST 2.02 1.10.7. COEFFICIENT OF SLIDING FRICTION (INCLUDING A 66.7% FACTOR TO ACCOUNT FOR MOVEMENT TO ENCAGE FRICTION), μ 2.27 1.10.8. MODULUS OF SUBGRADE REACTION	AGENCY TO PERFOR STATEMENT OF SPE SPECIAL INSPECTION 3.6. SPECIAL INSPECTIONS BY TH BOTH INSPECTIONS BY TH BOTH INSPECTIONS. 3.7. SPECIFIED LABORAT SYSTEMS, ETC. TO V SHALL BE FURNISHE SUBMITTED FOR REV THE PROJECT. SPEC BUT SHALL NOT BE L 3.7.1. CONCRETE MAT 3.7.2. MILL REPORTS O 3.7.3. SOIL FILL, BACK 3.7.4. SEISMIC QUALIF COMPONENTS. 3.7.5. EQUIPMENT TES 3.8. SPECIFIED TESTING CONFORMANCE TO 3 CONFORMANCE TO 3 CONFORMANCE TO 3 CONFORMANCE TO 3 CONFORMANCE TO 3 CONTRACTOR. SPEC LIMITED TO: 3.8.1. POST-INSTALLE 3.8.2. VACUUM (LIQUID 3.9. INSPECTION AND TE BY THE CONTRACTOR 3.10. SPECIAL INSPECTION SECTION 1704.2.4 OF OFFICIAL PRIOR TO 7 OCCUPANCY. 4.1. DEFERRED SUBM 4.1. DEFERRED DESIGN THE CONTRACTOR'S ENGINEER SHALL ME SPECIFIED: 4.1.1. CIVIL OR STRUCC PROJECT WILL E 4.1.2. EXPERIENCED II DESIGNED AT A AND SCOPE WIT 4.2. DEFERRED SUBMITT SUBMITTED AT THE 5 SUBMITTED TO THE	

STRUCTURAL GENERAL NOTES

ENGINEER.

- ING, DRILLING, CUTTING, ETC. INTO EXISTING OR NEWLY PLACED R MASONRY, LOCATE EMBEDDED ITEMS INCLUDING, BUT NOT EINFORCEMENT AND CONDUIT USING CONCRETE IMAGING (SUCH AS GROUND PENETRATING RADAR) AND MAKE CUTS SO AS ING EMBEDDED ITEMS. IN CASE OF CONFLICT, NOTIFY THE ENGINEER IN WRITING FOR DIRECTION.
- ENTS AND SYSTEMS (SUCH AS RAILINGS, STAIRS, ETC.) THAT ARE AND AFFECTED BY NEWLY-CONSTRUCTED CONDITIONS, FIELD SIONS, ELEVATIONS, CONDITIONS, ETC. PRIOR TO FABRICATION OF AND SYSTEMS.
- TOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, SEQUENCES AND PROCEDURES INCLUDING, BUT NOT LIMITED TO, ID SAFETY OF ERECTION BRACING, SHORING, TEMPORARY
- SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY CONDITIONS ONLY. DESIGN SHOWN DOES NOT INCLUDE IN LOADS OR NECESSARY COMPONENTS OR EQUIPMENT FOR THE STRUCTURES DURING CONSTRUCTION. CONTRACTOR IS FOR ALL WORK RELATING TO CONSTRUCTION ERECTION ACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN. BMITTALS BY THE ENGINEER DOES NOT RELIEVE THE OF THE RESPONSIBILITY TO REVIEW AND CHECK SUBMITTALS ITTING TO THE ENGINEER. THE CONTRACTOR REMAINS SOLELY FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE OF SUBMITTALS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, EVATIONS AND DIMENSIONS SPECIFIED IN THE CONTRACT
- JOB SITE BY THE ENGINEER TO OBSERVE THE CONSTRUCTION DO AY MEAN THAT THE ENGINEER IS GUARANTOR OF CONSTRUCTOR'S ESPONSIBLE FOR THE COMPREHENSIVE OR SPECIAL INSPECTIONS, N, SUPERVISION, OR SAFETY AT THE JOB SITE.
- INGS AND SPECIFICATIONS CONFLICT, THE MORE STRINGENT SHALL APPLY.

S AND TESTING AND OBSERVATIONS

- ND TESTING SHALL INCLUDE, BUT NOT BE LIMITED TO, REQUIRED BY THE BUILDING OFFICIAL, SPECIAL INSPECTIONS AND ADDITIONAL MATERIAL, ASSEMBLY, SYSTEM, ETC. INSPECTION
- ND TESTING SHALL BE FURNISHED BY THE CONTRACTOR. UNLESS
- REQUIRED BY THE BUILDING OFFICIAL WILL BE PROVIDED BY THE VING JURISDICTION.
- ECTIONS AND TESTING WILL BE FURNISHED BY THE OWNER ALLOWANCE. OWNER OR AGENT OF THE OWNER WILL SELECT ERFORM SPECIAL INSPECTIONS AND TESTING. REFER TO THE F SPECIAL INSPECTION AND THE SPECIFICATIONS REGARDING ECTIONS, OBSERVATION AND TESTING.
- ECTIONS DO NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR BY THE BUILDING OFFICIAL. THE CONTRACTOR SHALL SCHEDULE
- 3ORATORY AND / OR SHOP TESTING OF MATERIALS, ASSEMBLIES, . TO VERIFY QUALITY AND CONFORMANCE TO SPECIFICATIONS NISHED BY THE CONTRACTOR. TESTING RESULTS SHALL BE OR REVIEW BY THE ENGINEER PRIOR TO ACCEPTANCE FOR USE ON SPECIFIED LABORATORY AND / OR SHOP TESTING SHALL INCLUDE,
- DT BE LIMITED TO:
- E MATERIALS. ORTS OF METALS.
- BACKFILL AND AGGREGATE MATERIALS.
- QUALIFICATION OF STRUCTURAL AND NONSTRUCTURAL

NT TESTING.

- STING OF INSTALLED SYSTEMS TO VERIFY QUALITY AND
- E TO SPECIFICATIONS SHALL BE FURNISHED BY THE SPECIFIED INSTALLED SYSTEMS SHALL INCLUDE, BUT NOT BE

ALLED ANCHORS

- LIQUID-TIGHTNESS) TESTING.
- ND TESTING OF SHOP AND FIELD WELDING SHALL BE FURNISHED RACTOR IN ACCORDANCE WITH AWS D1.1.
- ECTION REPORTS AND A FINAL REPORT IN ACCORDANCE WITH .2.4 OF THE 2018 IBC SHALL BE SUBMITTED TO THE BUILDING OR TO THE TIME THAT PHASE OF THE WORK IS APPROVED FOR

SUBMITTALS

- SIGN IS THAT PORTION OF THE DESIGN WHICH IS DELEGATED TO TOR'S QUALIFIED PROFESSIONAL ENGINEER TO BE THE RECORD FOR THE SPECIFIED WORK. THE PROFESSIONAL
- ALL MEET THE FOLLOWING QUALIFICATIONS, UNLESS OTHERWISE
- STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE WILL BE CONSTRUCTED.
- CED IN DESIGN AND DETAILING OF THE SPECIFIED WORK HAVING AT A MINIMUM OF 3 PROJECTS WITH SIMILAR CONDITIONS, SIZE PE WITHIN THE PAST 3 YEARS.
- BMITTALS ARE THOSE PORTIONS OF THE DESIGN THAT ARE NOT THE TIME OF PERMIT APPLICATION AND THAT ARE TO BE) THE PERMITTING AGENCY FOR ACCEPTANCE PRIOR TO

INSTALLATION OF THAT PORTION OF THE WORK. UNLESS OTHERWISE S DEFERRED SUBMITTALS SHALL INCLUDE:

- 4.2.1. FABRICATION AND ERECTION DRAWINGS, SUBMITTED FOR ENGINE **REVIEW AND ACCEPTANCE.**
- 4.2.2. CALCULATIONS, SUBMITTED FOR INFORMATION AND REVIEWED BY ENGINEER FOR GENERAL CONFORMANCE TO THE PROJECT CONDI **REQUIREMENTS AND DESIGN CRITERIA.**
- 4.2.3. SUPPORTING ENGINEERING DATA. 4.3. DEFERRED SUBMITTALS ARE REQUIRED IN ACCORDANCE WITH CODE O
- ORDINANCES OF DEKALB COUNTY, GEORGIA, CHAPTER 7, SECTION 7-31 4.4. THE CONTRACTOR'S QUALIFIED PROFESSIONAL ENGINEER SHALL DESIG DETAIL THE SPECIFIED WORK; PREPARE THE DEFERRED SUBMITTALS; A
- SIGN AND DATE THE DEFERRED SUBMITTALS FOR REVIEW BY THE ENGI 4.5. THE DEFERRED SUBMITTAL SHALL INCLUDE SPECIFIC LINE ITEMS TO BE TO THE APPROPRIATE TABLES IN THE PROJECT'S STATEMENT OF SPEC INSPECTIONS PLAN IF THEY ARE NOT ALREADY IDENTIFIED.
- 4.6. WORK REQUIRING DEFERRED SUBMITTALS SHALL INCLUDE, BUT SHALL LIMITED TO:
- STRUCTURAL SYSTEMS (INCLUDING ELEMENTS, COMPONENTS, AND 4.6.1. OR COMBINATIONS THEREOF) NOT SPECIFICALLY DETAILED ON THE DRAWINGS OR DETAILED WITH MINIMUM REQUIREMENTS
- SAFETY RELATED SYSTEMS NOT SPECIFICALLY DETAILED ON THE D 4.6.2. OR DETAILED WITH MINIMUM REQUIREMENTS. STRUCTURAL ASPECTS OF NONSTRUCTURAL (ARCHITECTURAL, 4.6.3.
- MECHANICAL AND ELECTRICAL) SYSTEMS.
- 4.7. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT: DEFERRED SUBMITTALS TO THE ENGINEER FOR REVIEW AND ACCE 4.7.1. 4.7.2. DEFERRED SUBMITTALS AND ENGINEER'S COMMENT FORM INDICAT
- ACCEPTANCE TO THE PERMITTING AGENCY.
- 4.8. THE FOLLOWING IS A LIST OF DEFERRED SUBMITTALS: DUCTILE IRON PIPE 4.8.1.
- 4.8.2. MANHOLES AND UNDERGROUND UTILITY STRUCTURES
- 4.8.3. ANCHORAGE AND BRACING
- 4.8.4. PRECAST CONCRETE
- 4.8.5. METAL CANOPY AND ITS ANCHORAGE AND FOUNDATION 4.8.6. PIPING SUPPORT SYSTEMS
- 4.8.7. GENERATOR SETS
- 4.8.8. JIB CRANE AND ITS ANCHORAGE AND FOUNDATION
- 4.8.9. ANY EQUIPMENT OR COMPONENT IN WHICH A TECHNICAL SPECIFIC REQUIRES SUBMITTAL OF EQUIPMENT OR ANCHORAGE SYSTEM CALCULATIONS

5. FOUNDATIONS

- 5.1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL EXPLORATION RECOMMENDATIONS DOCUMENTED IN THE FOLLOWING REPORT(S):
- GEOTECHNICAL FIRM: GEO-HYDRO ENGINEERS, INC. 5.1.1. 5.1.2. REPORT TITLE: REPORT OF SUBSURFACE EXPLORATION AND
- **GEOTECHNICAL ENGINEERING SERVICES**
- REPORT DATE: JANUARY 28, 2020 5.1.3. 5.1.4. REPORT PROJECT NO(S).: 191248.20
- 5.2. THE REPORT IS NOT PART OF THE CONTRACT DOCUMENT AND SHALL B USED FOR REFERENCE ONLY.
- 5.3. EXCAVATIONS SHALL BE SHORED TO PREVENT SUBSIDENCE OR DAMAG ADJACENT EXISTING STRUCTURES, STREETS, UTILITIES, ETC. ACCEPTA TOLERANCE FOR SETTLEMENT OF ADJACENT EXISTING STRUCTURES IS UNLESS OTHERWISE SPECIFIED.
- A GEOTECHNICAL ENGINEER, REGISTERED IN THE STATE IN WHICH THE 5.4. IS LOCATED, SHALL VERIFY CONDITION AND/OR ADEQUACY OF SUBGRA FILLS AND BACKFILLS BEFORE PLACEMENT OF FOUNDATIONS. FOOTING WALLS, FILLS, BACKFILLS, ETC.
- THE GEOTECHNICAL ENGINEER OR HIS QUALIFIED DESIGNEE SHALL OB FOUNDATION BEARING SURFACES PRIOR TO PLACEMENT OF STONE, MU STEEL REINFORCEMENT OR OTHER MATERIALS TO VERIFY THAT THE AC EXPOSED SUBGRADE MATCHES THE ANTICIPATED CONDITIONS IN THE GOETECHNICAL REPORT AND MEETS THE REQUIRED SOIL BEARING PRE CAPACITY NOTED ON THE DRAWINGS.
- PREPARE THE FOUNDATION SUBGRADE IN ACCORDANCE WITH SPECIFIC 5.6. SECTION 02200. SUBGRADES OF DISTURBED OR UNDISTURBED RESIDUA FILL OR BACKFILL MATERIAL, ETC. SHALL BE COMPACTED
- FOUNDATION SLABS, MATS, BASE SLABS AND FOOTINGS SHALL BEAR OF 5.7. LAYER OF #57 STONE.
- MINIMUM REQUIRED ALLOWABLE SOIL BEARING PRESSURE SHALL BE AS 5.8. INDICATED ON PLANS.
- 5.9. TAKE NECESSARY PRECAUTIONS TO ASSURE BEARING SURFACES DO N BECOME SATURATED OR DRIED OUT. WHEN SOIL SUBGRADE IS LEFT EX FOR MORE THAN 24 HOURS, PROVIDE A 3" THICK MUD MAT WITH LEAN C (MINIMUM 2000 PSI). MUD MAT SHALL NOT BE CONSIDERED PART OF THE CONCRETE FOUNDATION ELEMENT
- WHEREVER FOUNDATIONS BEAR ON STRUCTURAL FILL, THE STRUCTUR 5.10. SHALL EXTEND LATERALLY BEYOND THE EDGES OF THE FOUNDATION F MINIMUM DISTANCE EQUAL TO THE DEPTH OF THE STRUCTURAL FILL BE THE FOUNDATION.
- 5.11. SIDES OF FOUNDATIONS SHALL BE FORMED UNLESS CONDITIONS PERM FORMING. FOUNDATIONS PLACED AGAINST THE EARTH REQUIRE THE FOLLOWING:
- 5.11.1. SLOPE SIDES OF EXCAVATION AS APPROVED BY GEOTECHNICAL EN
- 5.11.2. CLEAN UP SLOUGHING BEFORE AND DURING CONCRETE PLACEME
- 5.11.3. INCREASE ELEMENT SIZE TO ACCOUNT FOR ADDITIONAL CONCRET 5.12. DO NOT USE EXPLOSIVES UNLESS APPROVED IN WRITING BY ENGINEER

PECIFIED, ER'S THE TIONS, F .(m). GN AND ND SEAL, NEER.		Image: constraint of the second sec
ADDED IAL NOT BE CHORAGE E DRAWINGS EPTANCE. ING		CLENT: DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT Dekalb county, georgia
AND		PROJECT: RENSINGTON ROAD KENSINGTON ROAD PUMP STATION & PIPELINE PROJECT © 2010 R2T INC.
ABLE S +/-0", E PROJECT DES, SS, SLABS, SERVE JD MAT, CTUAL ESSURE CATION AL SOILS, N A 12"		REV DATE DESCRIPTION 0 9/25/20 ISSUED FOR CONSTRUCTION 1 1 1 1
S NOT POSED CONCRETE E AL FILL OR A ENEATH MIT EARTH NGINEER NT. E COVER.	<image/> <section-header><section-header><section-header><text><text><text></text></text></text></section-header></section-header></section-header>	With a state of the state

GEORGIA CERTIFICATION OF AUTHORIZATION OF Planding, McGanical, Gas, and Electrical sections LICENSE WE PEFORE 653 been reviewed for EXPIRATION FILE With technical codes and will be

DRAWN BY: JP

G-04

6 CONCRETE REINFORCEMENT	8.2. MINIMUM 28-DAY CON
	8.2.1. TYPICAL, UNO
	8.2.2. PRESTRESSED E
6.1.1. IYPICAL, UON ASTM A615 GRADE 60	8.3 CONCRETE UNIT WEI
6.1.2. WELDING IS NOT PERMITTED.	
6.2. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A1064 AND SHALL BE	0.4. DESIGN OF PRECAST
PROVIDED IN FLAT SHEETS. ROLLS ARE NOT ALLOWED.	ANCHORAGE) IS A DE
6.3 'CARRIER' (INCLUDING 'BURY') BARS ARE NOT ALLOWED	8.5. DESIGN PRECAST CO
	SUPPORT THE LOADS
0.4. FADRICATION AND PLACEMENT OF STEEL REINFORCEMENT SHALL DE IN	TO THE FOLLOWING:
ACCORDANCE WITH CRSI "MANUAL OF STANDARD PRACTICE" AND ACI 301-16	
"SPECIFICATIONS FOR STRUCTURAL CONCRETE".	
6.5. DETAIL CONCRETE REINFORCEMENT AND ACCESSORIES IN ACCORDANCE WITH	8.6. THE PRECAST MANUE
ACI 315-99 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT." SUBMIT	EMBEDDED COMPON
	THE SHEAR WALLS A
SHOP DRAWINGS FOR APPROVAL, SHOWING ALL FABRICATION DIMENSIONS AND	8.7 VERIEY GEOMETRY C
LOCATIONS FOR PLACING STEEL REINFORCEMENT AND ACCESSORIES. DO NOT	
BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED.	
DETAIL ALL CONCRETE WALLS AND BEAMS ON THE SHOP DRAWINGS IN	8.8. PRECAST CONCRETE
	REPRESENTATION OF
ELEVATION UNLESS SPECIFICALLY APPROVED OTHERWISE.	8.9 PRECAST CONCRETE
6.6. CONCRETE COVER FOR REINFORCEMENT, UNLESS SHOWN OTHERWISE, SHALL	
BE:	PRECAST MANUFACT
6.6.1 WHEN PLACED ON GROUND	OF GEORGIA.
	8.10. FACTOR OF SAFETY A
	DESIGN GROUNDWAT
6.7. 90 DEGREE BENDS, UNLESS OTHERWISE SHOWN, SHALL BE ACI 318 STANDARD	
HOOKS.	STRUCTURE AND WE
6.8 REINFORCING STEEL FOR BASE SLABS MATS FOOTINGS AND SLABS-ON-GRADE	RESISTANCE.
	8.11. PRECAST CONCRETE
SHALL DE ADEQUATEET SUFFORTED ON DAR SUFFORTS WITT SPACERS TO REEF	REQUIREMENTS, PRI
REINFORCING ABOVE THE PREPARED GRADE. LIFTING REINFORCING OFF GRADE	
DURING CONCRETE PLACEMENT IS NOT PERMITTED.	
6.9. DO NOT WELD OR TACK WELD STEEL REINFORCEMENT UNLESS APPROVED OR	0.12. FIELD VERIFY GROUN
DIRECTED BY THE STRUCTURAL ENGINEER	VERIFIED GROUNDW
	8.13. REFER TO SPECIFICA
0.10. SHOF DEIND REINFORGEIVIENT, UNLESS AFFRUVED IN WRITING BY ENGINEER. IF	SUBBASE COMPACTION
APPROVED, FIELD BEND REINFORCEMENT USING MACHINES AND TOOLS	
SPECIFICALLY DESIGNED FOR THAT PURPOSE ONLY AND APPROVED BY	
ENGINEER. DO NOT BEND BARS MORE THAN ONE PLACE AT A TIME DO NOT	
	9.1. WELDS SHALL CONFO
6.11. DO NOT HEAT BARS FOR ANY PURPOSE.	9.1.1. D1.1. STRUCTUR
6.12. STEEL REINFORCEMENT PLACEMENT SHALL BE REVIEWED BY A REGISTERED	
STRUCTURAL ENGINEER. OR BY A REPRESENTATIVE RESPONSIBLE FOR	
	9.1.3. D1.3, STRUCTUR/
	9.1.4. D1.6, STRUCTUR/
6.13. PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE; SPLICE ONLY AS	9.2. REPAIR WELDS FOUN
SHOWN OR APPROVED. STAGGER SPLICES, WHERE POSSIBLE. USE (CLASS "B")	5.26
TENSION LAP SPLICE PER "REINFORCEMENT DEVELOPMENT AND LAP SPLICE	
LENGTHS" TABLE LINEESS NOTED OTHERWISE DOWELS SHALL MATCH THE SIZE	9.3. USE INTERMITTENT
	AVOID SPALLING OR
	9.4. BUTT JOINT WELDS S
(CLASS "B") TENSION LAP SPLICE PER "REINFORCEMENT DEVELOPMENT AND LAP	
SPLICE LENGTHS" TABLE, UNLESS NOTED OTHERWISE.	
6.14 LAP SPLICES SHALL BE CONTACT SPLICES IN WHICH BARS ARE DIRECTLY	
	TU. METAL FABRICAT
6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL	10. IVIETAL FABRICAT 10.1. ALUMINUM SHALL CO
6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT	10.1.1. STRUCTURAL SHALL CO
6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS "	10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH
6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS."	10. IVIE TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS."	10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE 	10. INE TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. <u>CAST-IN-PLACE CONCRETE</u> 	10. IVIE TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND FRECTED IN ACC
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. <u>CAST-IN-PLACE CONCRETE</u> 7.1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 	10. IVIE TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. <u>CAST-IN-PLACE CONCRETE</u> 7.1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE 	10. IVIE TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. <u>CAST-IN-PLACE CONCRETE</u> 7.1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 	10. IVIE TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACC AND CURRENT OSHA 10.2.1. STRUCTURAL ST
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. <u>CAST-IN-PLACE CONCRETE</u> 7.1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 	10. IVIE TAL FABRICAT 10.1. ALUMINUM SHALL CC 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACC AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. <u>CAST-IN-PLACE CONCRETE</u> 7.1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 	10. IVIE TAL FABRICAT 10.1. ALUMINUM SHALL CC 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACC AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE 10.2.3. ALUMINUM
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 	10. IVIE TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACO AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE 10.2.3. ALUMINUM 10.3 EASTENERS SHALL B
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED 	10. IVIE TAL FABRICAT10.1. ALUMINUM SHALL CO10.1.1. STRUCTURAL SH10.1.2. PLATES10.1.3. TUBES10.2. STRUCTURAL STEEL,AND ERECTED IN ACOAND CURRENT OSHA10.2.1. STRUCTURAL ST10.2.2. STAINLESS STEE10.2.3. ALUMINUM10.3. FASTENERS SHALL B
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING" 	10. IVIE TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACO AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE 10.2.3. ALUMINUM 10.3. FASTENERS SHALL B ASTM STANDARDS EX
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 	10. IVIE TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACC AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE 10.2.3. ALUMINUM 10.3. FASTENERS SHALL BI ASTM STANDARDS EX 10.3.1. ANCHOR BOLTS
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS' 	10. IVIE TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACC AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE 10.2.3. ALUMINUM 10.3. FASTENERS SHALL BI ASTM STANDARDS EX 10.3.1. ANCHOR BOLTS (10.3.1.1. STAINLESS S
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2. CLASS 'A'LUSE FOR ALL ELEMENTS LION' 	10. IVIE TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACC AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE 10.2.3. ALUMINUM 10.3. FASTENERS SHALL BI ASTM STANDARDS EX 10.3.1. ANCHOR BOLTS 10.3.2. MACHINE BOLTS
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	10. IVIE TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACC AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE 10.2.3. ALUMINUM 10.3. FASTENERS SHALL BI ASTM STANDARDS EX 10.3.1. ANCHOR BOLTS 10.3.2. MACHINE BOLTS 10.3.2. STAINLESS S
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	10. IVIE TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACC AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE 10.2.3. ALUMINUM 10.3. FASTENERS SHALL BI ASTM STANDARDS EX 10.3.1. ANCHOR BOLTS 10.3.2. MACHINE BOLTS 10.3.2.1. STAINLESS S
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. <u>CAST-IN-PLACE CONCRETE</u> 7.1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	10. IVIE TAL FABRICAT10.1. ALUMINUM SHALL CO10.1.1. STRUCTURAL SH10.1.2. PLATES10.1.3. TUBES10.1.3. TUBES10.2. STRUCTURAL STEEL, AND ERECTED IN ACC AND CURRENT OSHA10.2.1. STRUCTURAL ST10.2.2. STAINLESS STEE10.2.3. ALUMINUM10.3. FASTENERS SHALL BI ASTM STANDARDS EX10.3.1. ANCHOR BOLTS10.3.2. MACHINE BOLTS10.3.2.1. STAINLESS STEE10.3.3. ITEMS TO BE EME
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	10. IVIE TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACC AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE 10.2.3. ALUMINUM 10.3. FASTENERS SHALL BI ASTM STANDARDS EX 10.3.1. ANCHOR BOLTS 10.3.2. MACHINE BOLTS 10.3.2.1. STAINLESS S 10.3.2.1. STAINLESS S 10.3.3. ITEMS TO BE EME DIRT AND PAINT.
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. INETAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. INETAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON) 4,000 PSI 7.2.2. CLASS 'B' (USE ONLY WHERE SPECIFIED)	 10. INETAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACO AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE 10.2.3. ALUMINUM 10.3. FASTENERS SHALL BI ASTM STANDARDS EX 10.3.1.1. STAINLESS S 10.3.2.1. STAINLESS S 10.3.2.1. STAINLESS S 10.3.3. ITEMS TO BE EME DIRT AND PAINT.
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR REVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)4,000 PSI 7.2.2. CLASS 'B' (USE ONLY WHERE SPECIFIED)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE 7.1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE VORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACC AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE 10.2.3. ALUMINUM 10.3. FASTENERS SHALL BI ASTM STANDARDS EX 10.3.1. ANCHOR BOLTS 10.3.2. MACHINE BOLTS 10.3.2.1. STAINLESS S 10.3.2.1. STAINLESS S 10.3.3. ITEMS TO BE EME DIRT AND PAINT.
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE VI. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACC AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE 10.2.3. ALUMINUM 10.3. FASTENERS SHALL BI ASTM STANDARDS EX 10.3.1. ANCHOR BOLTS 10.3.2. MACHINE BOLTS 10.3.2.1. STAINLESS S 10.3.2.1. STAINLESS S 10.3.3. ITEMS TO BE EME DIRT AND PAINT.
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'B' (USE FOR ALL ELEMENTS, UON)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON) 4,000 PSI 7.2.2. CLASS 'A' (USE FOR ALL ELEMENTS, UON) 3,000 PSI 7.3. CONCRETE UNIT WHERE SPECIFIED	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE 7.1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACO AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE 10.2.3. ALUMINUM 10.3. FASTENERS SHALL BI ASTM STANDARDS EX 10.3.1. ANCHOR BOLTS 10.3.1. STAINLESS S 10.3.2. MACHINE BOLTS 10.3.2.1. STAINLESS S 10.3.2.1. STAINLESS S 10.3.3. ITEMS TO BE EME DIRT AND PAINT.
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE 7.1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON) 4,000 PSI 7.2.2. CLASS 'B' (USE ONLY WHERE SPECIFIED)	10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACO AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE 10.2.3. ALUMINUM 10.3. FASTENERS SHALL BI ASTM STANDARDS EX 10.3.1. ANCHOR BOLTS 10.3.1.1. STAINLESS S 10.3.2. MACHINE BOLTS 10.3.2.1. STAINLESS S 10.3.2.1. STAINLESS S 10.3.3. ITEMS TO BE EME DIRT AND PAINT.
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE 7.1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE 7.1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT LEX. DULESS OT HERWISE NOTED. 6.15. REINFORCEMENT LEX. DULESS OT HERWISE NOTED. SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE 7.1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT LEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE 7.1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE 7.1 CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1 DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2 DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2. CLASS 'B' (USE FOR ALL ELEMENTS, UON)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE 7.1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. IME TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE 7.1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1 DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2 DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.2. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. IME TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE 7.1 CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1 DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2 DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2 DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1 CLASS 'A' (USE FOR ALL ELEMENTS, UON)4,000 PSI 7.2.2 CLASS 'B' (USE ONLY WHERE SPECIFIED)3,000 PSI 7.3. CONCRETE UNIT WEIGHT SHALL BE 1405 PCF, UNLESS OTHERWISE NOTED. 7.4. CONSTRUCTION JOINTS SHALL BE THOROUGHLY ROUGHENED BY MECHANICAL MEANS AND CLEANED. ROUGHEN SURFACES TO MINIMUM CSP-6 (MINIMUM 1/4" AMPLITUDE). 7.5. ROUGHEN AND CLEAN CONSTRUCTION JOINTS IN WALLS AND SLABS AS SPECIFIED PRIOR TO PLACING ADJACENT CONCRETE. 7.6. THE CONTRACTOR SHALL COORDINATE PLACEMENT OF OPLINGS, CURBS, DOWELS, SLEEVES, CONDUITS, BOLTS AND INSERTS PRIOR TO PLACEMENT OF CONCRETE. 7.6. THE CONTRACTOR SHALL CONCRETE EDGES TO BE LEFT EXPOSED (NOT BURIED OR COVERED BY OTHER MATERIALS). DO NOT CHAMFER EDGED OF WALLS OR COLUMNS ON FACES IN PLANE OF ADJACENT CMU WALLS. 8. PRECAST CONCRETE WORK SHALL CONFORM TO THE FOLLOWING, AS MODIFIED BY THE CONTRACT DOCUMENTS: 8.1.1 ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE." 	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 20-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 MIRE-TIED TOPEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.2. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 MIRE-TIED TOPEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. T.1.1 DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." T.2.1 DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." T.2.2 DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." T.2.2 DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." T.2.1 CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 WIRE THED TOBE THEY, DULESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.2.4. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.5. CLASS 'B' (USE ONLY WHERE SPECIFIED)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 Winker Dieb Tober Development And LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE 7.1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'B' (USE ONLY WHERE SPECIFIED)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 WREE THED TOGETHEN, OLLESS OTHERWISE NOTED. 6.15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'B' (USE ONLY WHERE SPECIFIED)	 10. ME TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACO AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE 10.2.3. ALUMINUM 10.3. FASTENERS SHALL BI ASTM STANDARDS EX 10.3.1. ANCHOR BOLTS I 10.3.2. MACHINE BOLTS 10.3.2.1. STAINLESS S 10.3.2.1. STAINLESS S 10.3.3. ITEMS TO BE EMB DIRT AND PAINT.
 WIRE-TIED TOGENER, DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." DESIGN FOR ILQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 330-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." CLASS '8' (USE ONLY WHERE SPECIFIED)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 WIRE INED TOGENER, DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE 7.1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2.1. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. ME TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 WIRE-TIED JOGE THEY, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. T.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." T.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." T.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." T.2. CLASS 'A' (USE FOR ALL ELEMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." T.2. CLASS 'A' (USE FOR ALL ELEMENTS, UON)	 10. ME TAL FABRICAT 10.1. ALUMINUM SHALL CC 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 anise Notes Not	10. ME TAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACO AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE 10.2.3. ALUMINUM 10.3. FASTENERS SHALL BI ASTM STANDARDS ED 10.3.1. ANCHOR BOLTS 10.3.2. MACHINE BOLTS 10.3.2.1. STAINLESS S 10.3.3. ITEMS TO BE EME DIRT AND PAINT.
 WIRE-TIED JOGETMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE' AS MODIFIED BY THE CONTRACT DOCUMENTS. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: CLASS 'A' (USE FOR ALL ELEMENTS, UON)4000 PSI 7.2. CLASS 'B' (USE ONLY WHERE SPECIFIED)	10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES 10.1.3. TUBES 10.2. STRUCTURAL STEEL, AND ERECTED IN ACO AND CURRENT OSHA 10.2.1. STRUCTURAL ST 10.2.2. STAINLESS STEE 10.2.3. ALUMINUM 10.3. FASTENERS SHALL BI ASTM STANDARDS EX 10.3.1. STAINLESS S 10.3.2. MACHINE BOLTS 10.3.2.1. STAINLESS S 10.3.2.1. STAINLESS S 10.3.3. ITEMS TO BE EMB DIRT AND PAINT.
 WIRE-TIED TOGEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." DESIGN FOR BUILDINGD AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." DESIGN FOR BUILDING DOB REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES. MINUM 250-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." MINUM 250-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." MINUM 250-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." CLASS 'Y' (USE FOR ALL ELEMENTS, UON)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 MIRE-TID TOGET TREV. UNLESS OTHERWISE NOTED. 15. REINFORCEMENT DEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." 7. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. 7.1.1. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.1.2. DESIGN FOR LIQUID-HOLDING AND BELOW-GRADE STRUCTURES IS BASED ON ACI 330-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." 7.2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: 7.2. CLASS B' (USE FOR ALL ELEMENTS, UON)	 10. METAL FABRICAT 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES
 MIRE-TID TOGET IDEVELOPMENT AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE MINIMUM REQUIREMENTS DEFINED IN THE TABLE "REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS." CAST-IN-PLACE CONCRETE (CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AS MODIFIED BY THE CONTRACT DOCUMENTS. DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 318-11 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." DESIGN FOR BUILDINGS AND OTHER STRUCTURES IS BASED ON ACI 350-06 "CODE REQUIREMENTS FOR REINFORCED CONCRETE." MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: CLASS YA' (USE FOR ALL ELEMENTS, UON)	 IU. <u>METAL FABRICAT</u> 10.1. ALUMINUM SHALL CO 10.1.1. STRUCTURAL SH 10.1.2. PLATES

STRUCTURAL GENERAL NOTES (CONTINUED)

DAY CONCRETE COMPRESSIVE STRENGTHS:

-- 4000 PSI UNO ----ESSED ELEMENTS ------ 5000 PSI JNIT WEIGHT SHALL BE 145 PCF, UNLESS OTHERWISE NOTED. RECAST CONCRETE (INCLUDING ITS CONNECTIONS AND E) IS A DEFERRED DESIGN. SUBMIT DEFERRED SUBMITTALS. CAST CONCRETE MEMBERS TO MEET "DESIGN CRITERIA", TO **HE LOADS RESULTING FROM TRANSPORTATION AND ERECTION, AND**

ELEMENTS AND SYSTEM AS INDICATED ON PLANS. ST MANUFACTURER SHALL BE RESPONSIBLE FOR INSTALLING COMPONENTS FOR CONNECTION OF THE PRECAST STRUCTURE TO

NALLS AS INDICATED ON THE PLANS. METRY OF INSERTS AND OPENINGS AS REQUIRED PER OTHER RAWINGS.

NCRETE DETAILS AS SHOWN ARE FOR ILLUSTRATIVE ATION ONLY.

NCRETE STRUCTURES SHALL BE DESIGNED AND DETAILED BY THE NUFACTURER'S PROFESSIONAL ENGINEER LICENSED IN THE STATE

SAFETY AGAINST UPLIFT DUE TO BUOYANCY PRESSURE BASED ON UNDWATER ELEVATION SHALL BE 1.25 WHEN DEAD WEIGHT OF AND WEIGHT OF SOIL DIRECTLY OVER HEEL ARE USED FOR

NCRETE ELEMENT THICKNESSES SHOWN ARE MINIMUM NTS. PRECAST CONCRETE MANUFACTURER SHALL DETERMINE KNESS BUT NOT LESS THAN THOSE SHOWN HERE. GROUNDWATER ELEVATION. DESIGN WET WELL FOR FIELD OUNDWATER ELEVATION, BUT NOT LESS THAN 961.00. PECIFICATION SECTION 02200, EARTHWORK FOR SUBGRADE AND DMPACTION AND FILL REQUIREMENTS AND BACKFILL REQUIREMENTS.

L CONFORM TO AMERICAN WELDING SOCIETY (AWS):

RUCTURAL WELDING CODE - STEEL

RUCTURAL WELDING CODE - ALUMINUM

RUCTURAL WELDING CODE - SHEET STEEL

RUCTURAL WELDING CODE - STAINLESS STEEL DS FOUND DEFECTIVE IN ACCORDANCE WITH AWS D1.1 SECTION

IITTENT WELDS AT FIELD WELDS OF EMBED PLATES AND ANGLES TO LING OR CRACKING OF THE EXISTING CONCRETE. WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) UNLESS THERWISE.

RICATIONS

HALL CONFORM TO THE FOLLOWING ASTM STANDARDS:

URAL SHAPES	B308
	B209
	B221
L STEEL, STAINLESS STEEL AND ALUMINUM SHALL BE FABRI	CATED

ED IN ACCORDANCE WITH THE CURRENT EDITION OF THE FOLLOWING NT OSHA STANDARDS.

URAL STEEL ----- AISC STEEL CONSTRUCTION MANUAL SS STEEL ------ SSINA STAINLESS STEEL FABRICATION JM ----- AA ALUMINUM DESIGN MANUAL

SHALL BE HIGH STRENGTH BOLTS CONFORMING TO THE FOLLOWING ARDS EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE:

BOLTS (AB) INLESS STEEL ----- F593, AISI TYPE 316, GROUP 2, CONDITION CW

EBOLTS (MB) INLESS STEEL ----- F593, AISI TYPE 316, GROUP 2, CONDITION CW

O BE EMBEDDED IN CONCRETE SHALL BE CLEAN AND FREE OF OIL,

REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS

MINIMUM 28-DAY CONCRETE DESIGN STRENGTH = 4,000 PSI, *N1*

GRADE 60 STEEL REINFORCEMENT

CONCRETE COVER \geq 2"

	TEN	ISION DE	VELOPM	ENT	TENSION LAP SPLICE				
	SPACII	NG <u>></u> 3"	SPACII	NG <u>></u> 6"	SPACII	NG <u>></u> 3"	SPACING <u>></u> 6"		
BAR SIZE	TOP BAR *N3*	OTHER BAR	TOP BAR *N3*	OTHER BAR	TOP BAR *N3*	OTHER BAR	TOP BAR *N3*	OTHER BAR	
#3	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	1'-0"	1'-3"	1'-0"	
#4	1'-3"	1'-0"	1'-3"	1'-0"	1'-8"	1'-3"	1'-8"	1'-3"	
#5	1'-8"	1'-3"	1'-7"	1'-3"	2'-2"	1'-8"	2'-0"	1'-7"	
#6	2'-4"	1'-10"	1'-11"	1'-6" 3'-1" 2'-4"		2'-4"	2'-5"	1'-11"	
#7	4'-0"	3'-1"	2'-9"	2'-1"	5'-2"	4'-0"	3'-7"	2'-9"	
#8	5'-2"	4'-0"	3'-1"	2'-5"	6'-9"	5'-2"	4'-1"	3'-1"	
#9	6'-7"	5'-1"	3'-10"	3'-0"	8'-6"	6'-7"	5'-0"	3'-10"	
#10	8'-4"	6'-5"	4'-9"	3'-8"	10'-10"	8'-4"	6'-2"	4'-9"	
#11	10'-3"	7'-11"	5'-8"	4'-5"	13'-4"	10'-3"	7'-5"	5'-8"	
				NOTES					
N1	WHERE BY 16 PE	3,000 PSI ERCENT.	CONCRI	ETE IS US	SED, INCI	REASE AE	BOVE LEI	NGTHS	
N2	WHERE	CONCRE QUIRED.	TE COVE	ER IS LES	S THAN 2	2", LONGE	ER LENG	THS	

I OP BAR SHALL BE DEFINED AS ANY HORIZONTAL BAR PLACED SUCH THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE *N3* MEMBER BELOW THE BAR IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.

						Ñ		
<u>A</u>	BBREVIA					2		
AA AE AC	A B Cl	ALUMINUM ASSOCIATION ANCHOR BOLT AMERICAN CONCRETE INSTITUTE		F	RIVEF		TAP	,
Al Al	SC (ALUM)	AMERICAN INSTITUTE OF STEEL CONSTRUCTION ALUMINUM			1841 P		R RD.	
AS AS A\	SCE STM WS	AMERICAN SOCIETY OF CIVIL ENGINEERS ASTM INTERNATIONAL AMERICAN WELDING SOCIETY		A PH V	TLANT ONE: (VWW.F	A, GA (678) 3 21100	30338 36-572 CON	3 21 I
A\ B(C:	WWA DT (BOTT) I	AMERICAN WATER WORKS ASSOCIATION BOTTOM CONSTRUCTION JOINT						
C/ Cl	/L LR	CENTER LINE CLEAR			- H	-	r	<
CC CC	ONC ONT RSI	CONCRETE CONTINUOUS CONCRETE REINFORCING STEEL INSTITUTE				ED,		
CS DE DI	SP EG A	CONCRETE SURFACE PROFILE DEGREES DIAMETER				HS		
D\ E\ ET	NG N	DRAWING EACH WAY				LER		
Fy G/	AB	YIELD STRENGTH GRADED AGGREGATE BASE			PAF	VA'	NA	
IC IC	C C RI	INTERNATIONAL BUILDING CODE INTERNATIONAL CODE COUNCIL INTERNATIONAL CONCRETE REPAIR INSTITUTE	ENT:		DE DE		Σ Ϊ	
ID IN JT	" "	INSIDE DIAMETER INCHES JOINT	CLI					
K KS	(KIP) SI S (LBS)	1000 POUNDS KIPS PER SQUARE INCH POUND (POUNDS)			D	ا مر ا	_	
M	AX B				R0/) JEC	
MI MI MI	ECH FR	MINIMUM DRY FILM THICKNESS MECHANICAL MANUFACTURER			lon) Y L	
MI MI NC	IN PII O.	MINIMUM MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS NUMBER			NG ^T	ר : ני ר	Ш Z I	
PC PC PJ	CI CF IF	PRECAST CONCRETE INSTITUTE PER CUBIC FOOT PREMOLDED JOINT FILLER			ENS			
PS PS	SF SI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH	OJECT:		Σ	- (ר	
SE	EINF EI EOR	STRUCTURAL ENGINEERING INSTITUTE STRUCTURAL ENGINEER-OF-RECORD	ЪВ					
SH SS SS	PEC, SPECS S (SST) SINA	SPECIFICATION, SPECIFICATIONS STAINLESS STEEL SPECIALTY STEEL INDUSTRY OF NORTH AMERICA						
ד8 דנ דו	&B DC YP	TOP AND BOTTOM TOP OF CONCRETE TYPICAL						
UC W W	ON // /WR	UNLESS OTHERWISE NOTED WITH WELDED WIRE REINFORCEMENT		CTION				
W	WTP	WASTEWATER TREATMENT PLANT	NOI	R CONSTRU				
			DESCRIPT	ISSUED FO				
			DATE	9/25/20				
			S REV):			
						00000	h.	



HEET TITLE:

GENERAL NOTES

ISSUED: SEPTEMBER 25, 2020

PROJECT NO. 14-902883

SCALE: NONE

CHKD BY: DP

SIGNED BY: DP

RAWN BY: JP

G-05

APPROVED

1244223 AP _____ DATE_______01/11/21 This Department is not responsible for any errors or omissions by engineers or other design professionals on design or county code requirements of this project.

The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any violation of any of the provisions of applicable codes or of any other ordinance of the jurisdiction. Permits

presuming to give authority to violate or cancel the provisions of applicable codes or any other ordinance of the jurisdiction shall not be valid. The documents and other data shall not prevent the

GEORGIA CERTIFICATE OF AUTHORIZATION TORS. PI Razing, We Ganical, Gas, and Electrical sections LICENSE WE :PEFO74653 been reviewed for compliance with technical codes and will be EXPIRATIONER UTION BASE 22

Development Services.







tion
SS RD

Point Table											
Point #	Elevation	Northing	Easting	Description							
2014	1001.41	1372058.42	2272744.74	PS ACCESS RD							
2015	998.80	1372034.38	2272736.27	PS ACCESS RD							
2016	989.99	1371977.71	2272761.85	PS ACCESS RD							
3001	982.51	1372358.11	2272735.76	PS SITE							
3002	982.00	1372418.35	2272736.45	PS SITE							
3003	982.01	1372417.69	2272794.44	PS SITE							
3004	982.53	1372357.70	2272793.76	PS SITE							
3005	982.51	1372358.32	2272755.51	PS SITE							
4001	982.50	1372414.35	2272752.02	BU PWR UNT							
4002	982.50	1372409.01	2272752.02	BU PWR UNT							
4003	982.50	1372409.01	2272740.02	BU PWR UNT							
4004	982.50	1372414.35	2272740.02	BU PWR UNT							
5001	983.33	1372387.58	2272790.86	VALVE VAULT							

Point #	E
5002	
5003	
5004	
6001	
7001	
7002	
7003	
7004	
7005	
8001	
8002	
8003	
8004	

N RD 0032		L C EUx EUx EUx	NOTES: 1. FOR MORE INFORMAT RECORD DOCUMENTS THE EXTENTS PERVIOUS	TION ON EASEMENTS, SEE S OF H–20 RATED S PAVERS	Image: Non-Weight Schwarz (Stresson
EXISTING BUDILDING DEKAL DB 1790 P. ID. 15	N/F B COUNTY 02 PG 0538 5 251 05 001	R45'			CLIENT: DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT Dekalb county, georgia
	SS (1) (2) (2) (2) (2) (2) (2) (2) (2	2015 SS CI STA: 0+11 LI SS -2001	R/W VARES) (45 MPH) 8001- (45 MPH) (45 MPH) (45 MPH) (45 MPH)		PROJECT: KENSINGTON ROAD PUMP STATION & PIPELINE PROJECT © 2010 R2T INC.
LINE # LENGTH (FT) DIRE L1 6.52' N13° 2 L2 33.66' N18° 2 L3 6.87' N03° 4	ACCESS ROAD CENTER CTION START 5' 32"E (2272714.21 0' 57"E (2272726.73 -1' 01"E (2272742.45	RLINE DATA POINT E 1,1371991.31) (227271 3,1372036.35) (227273 5,1372094.61) (227274	ND POINT 5.72,1371997.65) 7.33,1372068.30) 2.89,1372101.46)		KEV DATE DESCRIPTION 0 9/25/20 ISSUED FOR CONSTRUCTION 1 11/3/20 LDP COMMENTS 2 12/4/20 LDP COMMENTS 1 11/3/20 LDP COMMENTS
L4 251.15' NOO° 3	0' 47"E (2272743.30 ACCESS ROAD CU	D,1372112.52) (227274 JRVE DATA	5.55,1372363.66)	DeKalb County	GEORG No. 2689 BROFESSIONAL 12/04/20 ENGINEER GEORGE AUT
# RADIUS (FT) LENGTH (FT)	CHORD DIRECTION	START POINT	END POINT C	EVELOPMENT SERVICES	SHEET TITLE:
		1371007 65 1771007 05		APPROVED	
408.43 40.25	14.33 [°] E (10/199/.00,10/199/.05	/ (22/2/20./3,13/2030.35)	1 244223	CONTROL PLAN
104.99 26.87	N11°00'58.64"E (1372068.30,1372068.30) (2272742.45,1372094.61)	ATE01/11/21	
200.00 11.07	N2°05'53.88"E (1372101.46,1372101.46) (2272743.30,1372112.52)	is Department is not responsible for any errors or hissions by engineers or other design ofessionals on design or county code quirements of this project	ISSUED: NOVEMBER 03, 2020
. I			Th co vic or pr pr or or or or or or or	he issuance or granting of a permit shall not be onstrued to be a permit for, or an approval of, any olation of any of the provisions of applicable codes of any other ordinance of the jurisdiction. Permits resuming to give authority to violate or cancel the ovisions of applicable codes or any other dinance of the jurisdiction shall not be valid. The	PROJECT NO. 14–902883 SCALE: AS NOTED CHKD BY: AR DESIGNED BY: GR
				RATE OF AUTHORIZATION	DRAWN BY: YZ
				Entering, meterial cas, cas, and Electrical sections Ether provide the section of the section o	C-03

BU+			EUX		EUx	EUX		- EU _X	NOTES: 1. FOR RECO	MORE INFORMATI ORD DOCUMENTS	ION ON EASEMENTS, SEE		R	IVER T 841 PEEL UNIT TLANTA, C ONE: (678	O TAP .ER RD. C GA 30338 0 336-5721
KENSINGTON F Tur, ga 3003			сц. М	/WW.R2TI	NC.COM										
002 SS			G	DEKAL DB 1790 P. ID. 15	N/F B COUNTY 02 PG 053 251 05 0		R45'-	APPROX. EXISTING R.W.	-2016	55 ¹ ¹ ¹ ¹ ¹ ¹ ¹ ¹			DFK ALR COUNTV	DEPARTMENT OF	WATERSHED MANAGEMENT Dekalb county, georgia
	200	C3 4 R13	L3		20. 20. 20. 20. 20.	R45		LSTA: 0+11 LI MISNAY -2001	BOOT C ² (42 MPH) (45 MPH) (42 MPH)				PROJECT:	KENSINGTON ROAD	PIPELINE PROJECT
	INE # L1 L2 L3	LENGTH 6.52 33.6 6.8	(FT) 2' 66' 7'	DIRE(N13° 23 N18° 20 N03° 4	ACCESS CTION 5' 32"E 0' 57"E 1' 01"E	ROAD CENTI STAF (2272714. (2272726.7 (2272742.4	ERLINE DATA RT POINT 21,1371991.31) 73,1372036.35) 45,1372094.61)	ENI (2272715. (2272737. (2272742.	D POINT 72,1371997.65) 33,1372068.30) 89,1372101.46)				C REV DATE DESCRIPTION M 0 9/25/20 ISSUED FOR CONSTRUCTION	1 11/3/20 LDP COMMENTS 2 12/4/20 LDP COMMENTS	
-	 L4	251.	, 15'	N00° 3	0'47"E	(2272743.	30,1372112.52)	(2272745.	55,1372363.66)	-				EOR	G
CURVE # C1 C2	RADII 46 10	JS (FT) 58.43 04.99	LENGT 40 26	́Н (FT) 9.25 9.87	ACC CHORD N15° 53 N11° 00	ESS ROAD (DIRECTION 3' 14.33"E 0' 58.64"E	CURVE DATA START P (1371997.65,13 (1372068.30,13	OINT 371997.65) 372068.30)	END PC (2272726.73,1 (2272742.45,1	J DINT 372036.35) 372094.61)	DeKalb County GEORGIA EVELOPMENT SERVICES APPROVED 1244223 ATE 01/11/21 s Department is not responsible for any errors	y s	SHEET H CO	GISTA No. 26 PROFESSI 12/04/ SEORGE TITLE: ORIZO NTROI	NTAL PLAN
C3	20	00.00	11	.07	N2°05	53.88"E	(13/2101.46,1	372101.46)	(22/2/43.30,1	3/2112.52) ^{on} red	ressionals on design or counter design or county co puirements of this project. e issuance or granting of a permit shall not	be -	PROJECT	NO. 14-9	902883
									G	cor viol or c pro ord <u>inc</u> doc <u>BEORGIA CERTIP</u> puli	histrued to be a permit for, or an approval of, a lation of any of the provisions of applicable cod of any other ordinance of the jurisdiction. Perm esuming to give authority to violate or cancel to visions of applicable codes or any off finance of the jurisdiction shall not be valid. The second state of the jurisdiction shall not be valid. The currents and other data shall not prevent the CATPE FOF AUTHORIZATION for Rating Michanical Gas and Electrical section	iny les	SCALE: A CHKD B` DESIGNE DRAWN I	S NOTED f: AR D BY: GR BY: YZ	

	Point	Table	
Elevation	Northing	Easting	Description
983.33	1372364.41	2272790.86	VALVE VAULT
983.33	1372364.41	2272781.70	VALVE VAULT
983.33	1372387.58	2272781.70	VALVE VAULT
982.75	1372398.91	2272786.96	WET WELL CNTR
974.04	1372452.60	2272789.37	STORM
978.93	1372432.92	2272802.47	STORM
985.65	1372357.85	2272801.25	STORM
983.09	1372334.18	2272759.17	STORM
984.06	1372294.94	2272758.43	STORM
991.63	1371971.71	2272732.72	SS MH
1002.23	1372159.31	2272757.83	SS MH
985.07	1372278.87	2272757.76	SFM
987.88	1372309.17	2272788.01	SFM

LICENSE TO ::PEF004653 been reviewed for EXPIRATION of the third codes and will be

3002 982.00

3004

1372418.35 2272736.45 PS SITE

PS SITE

3003 | 982.01 | 1372417.69 | 2272794.44 | PS SITE

3005 982.51 1372358.32 2272755.51 PS SITE

982.53 | 1372357.70 | 2272793.76 |

			Poir		
#	Elevation	Northing	Easting	Description	Structure
1	974.04	1372452.60	2272789.37	STORM	HW A-1:GDOT 1125
2	978.93	1372432.92	2272802.47	STORM	JB A-2:48" GDOT 1011AP
3	985.65	1372357.85	2272801.25	STORM	JB A-3:48" GDOT 1011AP
1	983.09	1372334.18	2272759.17	STORM	DI A-4:48" GDOT 1019AP
5	984.06	1372294.94	2272758.43	STORM	DI A-5:48" GDOT 1019AP

jobsite at all times and shall not be modified or altered without authorization from DeKalb County

1841 PEELER RD. UNIT C ATLANTA, GA 30338 PHONE: (678) 336-5721 WWW.R2TINC.COM											
CLIENT:	DEVALD COUNTV	DENALD CUUNII	DEPARTMENT OF		WALEKJIEU	MANAGEMENT					
PROJECT:				PUMP STATION &				© 2010 R2T INC.			
C REV DATE DESCRIPTION	W 0 9/25/20 ISSUED FOR CONSTRUCTION	1 11/3/20 LDP COMMENTS	2 12/4/20 LDP COMMENTS	R(
SH				STE 201 201 201 201 201 201 201 201 201 201		N 8 2020	8				
CHI DES		1" = BY: ED E BY:	<u> </u>	(v R G	, 6						

	F PH	184 ATLA	Í ER 1 PE UI ANT, E: ((2 2 2 2 2 2 2 2 2 2 2 1 1 2 2 1 1	D T C A 30 336	TAP RD. 0338 S-57: COM	321	
CLIENT:	DEVALD COUNTY	DENALD CUUNII	DEPARTMENT OF		WALEKOREU	NANAGEMENT	DEKALB COLINITY GEODGIA	
PROJECT:				PUMP STATION &				© 2010 R2T INC.
REV DATE DESCRIPTION	0 9/25/20 ISSUED FOR CONSTRUCTION	1 11/3/20 LDP COMMENTS	2 12/4/20 LDP COMMENTS					
SH				R(STE 201 204/1 GINE GE				
ISSI PRC SCA CHI DES DRA		JM LA NOV AS 1 3Y: ED E BY:	P \$ RC /EME 0. 1 NOTE A 33Y: G 0	ST/ SE[BER 4-9 ED R R G	AT D F 03, 0288	101 PLA 202 B3	N N N N N N N N N N N N N N	
							CLER TO TAPE RIVER T	

(IN FEET)

1 inch = 10 ft.

—H—20 RATED PERVIOUS

6

CD-04

1" PVC WATER SERVICE

(2' WIDE #57 GRAVEL)

APPROVED

AP ______ DATE 01/11/21 This Department is not responsible for any errors or omissions by engineers or other design professionals on design or county code requirements of this project.

The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any violation of any of the provisions of applicable codes or of any other ordinance of the jurisdiction. Permits presuming to give authority to violate or cancel the provisions of applicable codes or any other

ordinance of the jurisdiction shall not be valid. The documents and other data shall not prevent the GEORGIA CERTIFICATE OF AUTHORIZATION

Planzing, McGanical, Gas, and Electrical sections LICENSE NG: PPEF10024633 been reviewed for compliance with technical codes and will be EXPIRAT HOME HER ULTING Mapping 22

Pump Station Design Criteria

		Startup Conditions	Design/Future
	Basis	2020	Conditions 2045
Average Daily Flow	GPD	8582	149,423
Peak Hourly Flow	GPD	42,910	747,117
Peak Factor (PHF:ADF)		5	5
Force Main Diameter	in	6	6
Pump Rated Flow	GPM	200	600
Force Main Velocity @ Rated Flow	fps	5.1	6.8
Total Head @ Rated Flow	ft	70	70
No. of Pumps		2	2
Wetwell Diameter	ft	5	10
Volume per Vertical Foot	gallons	147	587
Active Storage Volume	gallons	282	2631
(3 hrs @Peak Hourly Flow)	gallons	5364	93420
	Req'd VF	37	159
PS Top of Slab Elevation	ft	982	982
Emergency Volume Max Water Elevation	ft	981	981
High Level Alarm	ft	957.5	957.5
Lag Pump On	ft	957	957
Lead Pump On	ft	956	956
Cycle Time	min	11.5	16.8
Cycles per Hour	#	5.2	3.6
Pumps Off	ft	954	954
PS Floor Elevation (top of grout)	ft	952	952

APPROVED

1244223 AP _____

DATE_______01/11/21 This Department is not responsible for any errors or omissions by engineers or other design professionals on design or county code requirements of this project.

The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any violation of any of the provisions of applicable codes or of any other ordinance of the jurisdiction. Permits presuming to give authority to violate or cancel the

provisions of applicable codes or any other ordinance of the jurisdiction shall not be valid. The documents and other data shall not prevent the GEORGIA CERTIFICATE OF AUTHORIZATION OR. Planding, McGanical, Gas, and Electrical sections

LICENSE NO.: PEFO004653 been reviewed for compliance with technical codes and will be EXPIRATION EACH LEin Shape 22

jobsite at all times and shall not be modified or altered without authorization from DeKalb County Development Services.

R S

SSUED: SEPTEMBER 25, 2020 ROJECT NO. 14-902883 ALE: AS NOTED HKD BY: AR SIGNED BY: JRC

C-08

RAWN BY: JRC

0 + 00.00

Offset

ACCESS ROAD CROSS SECTIONS

Offset

NOTES: 1. SEE SHEET C-04 FOR PLAN VIEW

Elevation

<u>г</u> е

ation

Offset

2. SEE DETAIL P-012, SHEET CD-04 FOR PUMP STATION TYPICAL DRIVE CROSS SECTION

jobsite at all times and shall not be modified or altered without authorization from DeKalb County Development Services.

ordinance of the jurisdiction shall not be valid. The

DeKalb County

DEVELOPMENT SERVICES

APPROVED

1244223

DATE 01/11/21

documents and other data shall not prevent the GEORGIA CERTIFICATE OF AUTHORIZATION FOR

D

AP

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.

MAINTENANCE OF ALL SOIL, EROSION AN SEDIMENT CONTROL MEASURES AND PRACTICES WETHER TEMPORARY OR PERMANENT SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.

THE DESIGN PROFESSIONAL OR AN AUTHORIZED AGENT WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION THE INITIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROL BMPs AND AND SEDIMENT BASINS IN ACCORDANCE WITH PART IV.A.5. WITHIN (7) SEVEN DAYS AFTER INSTILLATION.

ALL FILL SLOPES SHALL HAVE SILT FENCE AT THE TOE OF THE SLOPE.

CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5:1 WITH A HEIGHT OF 10 FEET OR MORE SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING OR BLANKET

ALL ONSITE PROJECT WETLANDS ARE DELINEATED. WETLANDS WILL BE DISTURBED AS PART OF THIS PROJECT.

SEDIMENT STORAGE INDICATORS AND MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING 1/3 FULL VOLUME.

(15) NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

PLAN ALTERATIONS

THIS ES&PC IS PROVIDED BY THE ENGINEER. IT ADDRESSES THE STAGED CONSTRUCTION OF THE PROJECT ON THE BASIS OF COMMON CONSTRUCTION METHODS AND TECHNIQUES. IF THE CONTRACTOR ELECTS TO ALTER THE STAGED CONSTRUCTION FROM THAT SHOWN ON THE PLANS OR UTILIZE CONSTRUCTION TECHNIQUES THAT RENDER HIS PLAN INEFFECTIVE, AND THE ENGINEER APPROVES THE REQUEST, THE CONTRACTOR SHALL BE RESPONSIBLE FOR TE REVISION OF THE ES&PC PLAN TO REFLECT THE REVISED CONSTRUCTION. THIS WILL INCLUDE ANY REVISIONS TO THE EROSION AND SEDIMENT CONTROL ITEM QUANTITIES.

THE CONTRACTOR AND THE CERTIFIED DESIGN PROFESSIONAL SHALL CAREFULLY EVALUATE THIS PLAN PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITIES.

AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL

A REVISION TO THE EROSION CONTROL PLAN IS REQUIRED WHEREVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE THAT WILL HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT OR IF THE PLAN PROVES TO BE INEFFECTIVE IN ELIMINATING POLLUTANT DISCHARGE.

TEMPORARY STABILIZATION

EXCEPT AS PROVIDED IN EPD GENERAL PERMIT GAR 100002, STABILIZATION MEASURES WILL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. HOWEVER, IN SPECIAL CASES THE PROJECT ENGINEER MAY REQUIRE THE CONTRACTOR TO PERFORM STABILIZATION MORE OFTEN THAN 14 DAYS.

VEGETATION AND PLANTING SCHEDULE

ALL TEMPORARY AND PERMANENT VEGETATIVE PRACTICES INCLUDING PLANT SPECIES, PLANTING DATES, SEEDING, FERTILIZING, LIMING AND MULCHING FOR THIS PROJECT CAN BE FOUND IN THE ES&PC PLAN.

SEQUENCE OF MAJOR ACTIVITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF THE CONSTRUCTION SEQUENCING AND PHASING. THE PERIMETER BMPs AND INLET PROTECTION DEVICES MUST BE IN PLACE AS SHOWN ON THE PLANS PRIOR TO ANY LAND DISTURBANCE ACTIVITIES. ADDITIONAL BMPs SHALL BE INSTALLED AND MAINTAINED DURING CONSTRUCTION ACTIVITIES AS SHOWN OR OTHERWISE REQUIRED. PERMANENT BMPs AND FINAL STABILIZATION SHALL BE COMPLETED AS SHOWN ON THE PLAN OR OTHERWISE REQUIRED.

PETROLEUM STORAGE, SPILLS AND LEAKS

THESE PLANS EXPRESSLY DELEGATE THE RESPONSIBILITY OF PROPER ONSITE HAZARDOUS MATERIAL MANAGEMENT TO THE CONTRACTOR. THE CONTRACTOR SHALL, AT A MINIMUM, PROVIDE AN ACTION PLAN AND KEEP THE NECESSARY MATERIALS ON SITE FOR THE CAPTURE, CLEAN UP, AND DISPOSAL OF ANY PETROLEUM PRODUCT OR OTHER HAZARDOUS MATERIAL, LEAKS OR SPILLS ASSOCIATED WITH THE SERVICING, REFUELING OR OPERATION OF ANY EQUIPMENT UTILIZED AT THE SITE. A COPY OF THE ACTION PLAN SHALL BE KEPT ONSITE. ALL PERSONNEL OPERATING OR SERVICING THE EQUIPMENT SHALL BE FAMILIAR WITH THE ACTION PLAN. THE CONTRACTOR SHALL NOT PARK, REFUEL OR MAINTAIN EQUIPMENT WITHIN DESIGNATED WATERWAYS.

SPILL CLEAN-UP AND CONTROL PRACTICES

- LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. • MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDE, BUT IS NOT LIMITED TO,
- BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY 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 1-800-426-2675. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE
- CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR. THE
- GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTER MEASURERS PLAN PREPARED BY A LICENSED PROFESSIONAL

IF THE CONTRACTOR ELECTS TO STORE PETROLEUM PRODUCTS ONSITE THE CONTRACTOR SHALL PREPARE AN ES&PC PLAN ADDENDUM THAT ADDRESSES THE ADDITIONAL BMPs NEEDED FOR ONSITE STORAGE AND SPILL PREVENTION FOR PETROLEUM PRODUCTS. THIS PLAN SHALL BE PREPARED BY A CERTIFIED DESIGN PROFESSIONAL AS REQUIRED BY GAR 100002 FOR INCLUSION WITH THESE PLANS.

SOIL SERIES INFORMATION

POST CONSTRUCTION BMPs FOR STORMWATER MANAGEMENT ALL PERMANENT POST CONSTRUCTION BMPs ARE SHOWN IN THE ES&PC PLANS. THE POST CONSTRUCTION BMPs CONSIST OF PERMANENT VEGETATION TO PROVIDE PERMANENT STABILIZATION OF THE SITE AND PREVENT ABNORMAL TRANSPORTATION OF SEDIMENT AND POLLUTANTS INTO RECEIVING WATERS.

SILT FENCE INSTALLATION WITH J HOOKS AND SPURS SILT FENCE SHALL NOT BE RUN CONTINUOUSLY. SILT FENCE SHALL EITHER TURN BACK INTO THE FILL OR SLOPE TO CREATE SMALL POCKETS THAT TRAP SILT AND FORCE STORMWATER TO FLOW THROUGH THE SILT FENCE, KNOWN AS USING J-HOOKS OR SPURS. THE J-HOOKS SHALL BE UTILIZED ON ALL SILT FENCES LOCATED AROUND THE PERIMETER OF THE PROJECT SITE AND ALONG THE TOE OF EMBANKMENTS OR SLOPES. THE J HOOKS ARE TO BE SPACED IN ACCORDANCE WITH THE TYPICAL LOCATION DETAILS FOR SILT FENCE / HAY BALES. MAXIMUM J-HOOK SPACING REACHED WHEN THE J-HOOK IS AT THE SAME ELEVATION AS THE BOTTOM OF THE IMMEDIATELY UP GRADIENT J-HOOK.

(27) **PRODUCT SPECIFIC PRACTICES**

PETROLEUM PRODUCTS: ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE DAILY PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY PETROLEUM TO BE STORED IN TANKS WILL HAVE BE SURROUNDED BY AN EARTHEN BERM AS A SECONDARY PROTECTIVE MEASURE. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

PAINTS: ALL CONTAINERS WILL BE TIGHTLY SEALED ND STORED WHEN NOT REQUIRED FOR USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM. EXCESS PRODUCT, PRODUCT CONTAINERS, AND MATERIALS USED WITH THESE PRODUCTS WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND STATE AND LOCAL REGULATIONS.

FERTILIZERS: FERTILIZER USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

WASTE DISPOSAL: KEEP PORTA-JOHNS AWAY FROM STORM DRAIN INLETS AND RECEIVING BODIES OF WATER. RUNOFF FROM PORTA-JOHNS INTO WATER SYSTEMS IS A VIOLATION OF FEDERAL, STATE, AND LOCAL ORDINANCES.

MULCH: MULCH STORAGE MUST COMPLY WITH THE FOLLOWING SECTION OF THE STANDARD FIRE PREVENTION CODE. SECTION 502.31 - NO PERSON SHALL STORE IN ANY BUILDING OR UPON ANY PREMISES IN EXCESS OF 2,500 CU.FT. GROSS VOLUME OF COMBUSTIBLE EMPTY PACKING CASES, BOXES, BARRELS OR SIMILAR CONTAINERS, OR RUBBER TIRES, OR RUBBER OR OTHER SIMILARLY COMBUSTIBLE MATERIALS WITHOUT A PERMIT.

DEWATERING AND PUMPING ACTIVIES

MISCELLANEOUS CONTROLS THE CONTRACTOR SHALL FOLLOW THIS ES&PC PLAN, ENSURE AND DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE STATE AND/OR LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER/SEPTIC SYSTEMS AND PETROLEUM STORAGE.

NON-STORMWATER DISCHARGE

NON-STORM WATER DISCHARGE DEFINED IN PART IV.D.7 OF THE NPDES PERMIT MAY BE DISCHARGED, INCLUDING: WATER LINE FLUSHING, IRRIGATION DRAINAGE, UN-CONTAMINATED GROUNDWATER, ADDITIONAL NON-STORM WATER DISCHARGES MAY BE IDENTIFIED AFTER CONSTRUCTION COMMENCEMENT. THESE DISCHARGES SHALL BE SUBJECT TO THE SAME REQUIREMENTS AS STORMWATER DISCHARGES AS REQUIRED BY THE GEORGIA EROSION AND SEDIMENTATION CONTROL ACT. THE NPDES PERMIT, THE CLEAN WATER ACT, THE MANUAL FOR SOIL EROSION AND SEDIMENT CONTROL IN GEORGIA, DEPARTMENT STANDARDS AND OTHER CONTRACT DOCUMENTS. THE NPDES DOES NOT AUTHORIZE THE DISCHARGE OF SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING OR THE DISCHARGE OF WASTE WATER CONTAINING STUCCO. PAINTS, OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS.

STORMWATER DISCHARGES

POTENTIAL SOURCES OF STORMWATER POLLUTION EXPECTED TO BE PRESENT ON THE SITE INCLUDE:) SEDIMENT, OIL, LUBRICANTS, PAINTS, SOLVENTS, CONCRETE, FERTILIZER AND HERBICIDES. POLLUTANTS SHALL BE MINIMIZED IN THE STORMWATER DISCHARGES BY MAINTAINING GOOD HOUSE KEEPING AND (28) UTILIZING PROPER CARE, HANDLING OF, AND/OR DISPOSAL OF CONSTRUCTION MATERIALS. SOLVENTS. PETROLEUM PRODUCTS AND CONSTRUCTION WASTE. STRUCTURAL AND VEGETATION BMPs SHAL BE UTILIZED AS DEPICTED IN THE ES&PC PLAN.

SEDIMENT STORAGE

THIS SITE HAS A TOTAL DISTURBED AREA OF 1.30 ACRE REQUIRING 87 CUBIC YARDS OF SEDIMENT STORAGE PER THE REQUIRED 67 CU YD/AC. UTILITY MAIN CONSTRUCTION DOES NOT ALLOW FOR CENTRAL SEDIMENT STORAGE BMPs. THE PRIMARY METHOD OF SEDIMENT STORAGE WILL BE IN SILT FENCE AND CHECK DAMS INSTALLED ADJACENT TO THE UTILITY MAIN.

WASTE MATERIALS

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON-SITE.

AUTHORIZED BY A SECTION 404 PERMIT.

ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

BMP MAINTENANCE NOTE

ALL SEDIMENT CONTROL DEVICES OTHER THAN SEDIMENT BASINS SHALL BE CLEANED OF SEDIMENT WHEN ONE HALF OF TH CAPACITY, BY HEIGHT, DEPTH OR VOLUME HAS BEEN REACHED. SEDIMENT BASINS SHALL BE CLEANED OF SEDIMENT WHEN ONE-THIRD OF THE CAPACITY BY VOLUME HAS BEEN REACHED. REFER TO BMP DETAILS INCLUDED WITH THESE PLANS FOR ADDITIONAL MAINTENANCE INFORMATION.

STREAM ENCROACHMENTS

STREAMS AS DEFINED BY O.C.G.A. 12-7-1, ARE NOT IMPACTED BY THIS PROJECT NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN 25 OR 50-FOOT UNDISTURBED STREAM

NECESSARY VARIANCES AND PERMITS.

A PROJECT SPECIFIC SOIL SURVEY WAS NOT PERFORMED AS PART OF THIS PROJECT. SOIL SERIES INFORMATION OBTAINED FROM THE NRCS IS SHOWN ON THE PLAN SHEETS AND SUMMARIZED IN THE TABLE ON SHEET CE-1. THE NRCS SOIL SURVEY AND SOIL SERIES MAPS FOR THE PROJECT AREA ARE AVAILABLE ONLINE AT: HTTP:\\WEBSOILSURVEY.NRCS.USDA.GOV\

ANY PUMPED DISCHARGE FROM AN EXCAVATION OR DISTURBED AREA SHALL BE ROUTED THROUGH AN APPROPRIATELY SIZED SEDIMENT BASIN, SILT FILTER BAG OR SHALL BE TREATED WITH SUITABLE BMPs

THE CONTRACTOR SHALL CONTROL DUST FROM THE SITE O THE MAXIMUM EXTENT PRACTICAL.

 \int_{18} NO WASTE MATERIALS SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS

BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE

READY MIX CHUTE WASH-DOWN

THE WASHING OF READY MIX CONCRETE DRUMS AND DUMP TRUCK BODIES USED IN THE DELIVERY OF PORTLAND CEMENT CONCRETE IS TYPICALLY PROHIBITED ON THIS SITE, HOWEVER A CONTROLLED WASHOUT AREA MAY BE USED PROVIDING ALL HARDENED REMAINS ARE REMOVED FROM SITE AT THE END OF EACH WORK DAY. NEVER DISPOSE OF WASH-DOWN WATER DOWN A STORM DRAIN. IF THE PROJECT SITE DOES NOT PROVIDE ACCESS TO A LOCATION WHICH ALLOWS FOR A WASH-DOWN PIT. THE CONTRACTOR SHALL WASH-DOWN INTO A WHEELBARROW, STEEL DRUM, OR OTHER CONTAINER FOR TRANSPORT TO A ROPER DISPOSAL SITE. FOR ADDITIONAL INFORMATION, REFER TO THE GEORGIA SMALL BUSINESS ENVIRONMENTAL ASSISTANCE PROGRAM'S "A GUIDE FOR READY MIX CHUTE/HOPPER WASH-DOWN".

INSPECTION

- 1. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- MEASURE RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.
- 3. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NONWORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE ; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION ; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
- BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
- A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL. MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A STATEMENT THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

SAMPLING REQUIREMENTS

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS SECTION IS APPLICABLE TO PRIMARY PERMITTEES WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN FIVE (5) ACRES. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

STORM WATER SAMPLING

STORM WATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-8-92-001".

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED. INSTALLED. AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE APPLICABLE VALUE SELECTED FROM APPENDIX B IN PERMIT NO. GAR100002.

THE NTU LIMIT IS BASED UPON THE DISTURBED ACREAGE OF THE PROJECT SITE AND THE SURFACE WATER DRAINAGE AREA DRAINING TO THE RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

SAMPLE TYPE

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

1) SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

2) SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER 3) LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR

COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION. 4) MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV. E.\

FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR ALL OUTFALLS INTO SUCH STREAMS AND OTHER WATER BODIES, OR A COMBINATION THEREOF. HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV.D.6.C.(2). OF THIS PERMIT, PRIMARY PERMITTEE'S ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE PERENNIAL AND INTERMITTENT STREAMS, OTHER WATER BODIES OR OUTFALLS, OR A COMBINATION THEREOF. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE. B) THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE. C) IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S). D) CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL. E) THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM. F) THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS. G) PERMITTEE'S DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL OR SILVICULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICULTURAL USE. H) ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING

APPLICABLE. I) A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF RECEIVING WATER(S) BEING INCREASED BY MORE THAN TEN (10) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS CLASSIFIED AS TROUT STREAMS OR MORE THAN TWENTY-FIVE (25) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS SUPPORTING WARM WATER FISHERIES, REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART 11.8.1.1. J) WHEN THE PERMITTEE HAS ELECTED TO SAMPLE OUTFALL(S), THE DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE VALUE SELECTED FROM APPENDIX 8 APPLICABLE TO THE CONSTRUCTION SITE. AS SET FORTH THEREIN, THE NEPHELOMETRIC TURBIDITY UNIT (NTU) VALUE SHALL BE SELECTED FROM APPENDIX B BASED UPON THE SIZE OF THE CONSTRUCTION SITE, THE SURFACE WATER DRAINAGE AREA AND WHETHER THE RECEIVING WATER(S) SUPPORTS WARM WATER FISHERIES OR IS A TROUT STREAM AS INDICATED IN THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6 AT WWW.GAEPD.ORG.

THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED 5) SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM

SAMPLE POINTS

A) THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED

GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS 111.0 .3. OR 111.0.4., WHICHEVER IS

Development Services.

1244223

uirements of this project

DATE_____01/11/21

omissions by engineers of Level II Certified Designie-Broatessionalign

CERTIFICATION NUMBER

Issued: <u>03/01/2020</u>

1841 PEELER RD.

UNIT C

ATLANTA, GA 30338

PHONE: (678) 336-5721

WWW.R2TINC.COM

 \mathbf{O}

$\frac{\text{SAMPLING FREQUENCY}}{31} (33)$

1) THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.

2) HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

3) SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

A) FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT. AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION;

B) IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST;

C) AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

D) WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND

E) EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

RETENTION OF RECORDS

- 1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
- a) A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD; b) A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
- c) THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.S. OF THIS PERMIT;
- d) A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT:
- e) A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
- f) A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND
- g) DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2).OF THIS PERMIT.

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION), OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

CERTIFICATION STATEMENTS

11) I CERTIFY THAT LOCATIONS DE SUPERVISION	UNDER PENALTY C SCRIBED HEREIN BY	OF LAW THAT TH (MYSELF OR M)	IS PLAN WAS P Y AUTHORIZED	REPARED AFTER AGENT, UNDER D	A SITE VISIT AT 1 DIRECT	ΓHE
	0						

08/31/2020 0000060876 GASWCC LEVEL II DESIGN PROFESSIONAL DATE CERTIFICATION # (12) "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100002."

Luck Watford 08/31/2020 0000060876 GASWCC LEVEL II DESIGN PROFESSIONAL DATE CERTIFICATION #

(13) "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL, INTERMITTENT STREAMS AND OTHER WATER BODIES, OR B) WHERE ANY SUCH IDENTIFIED PERENNIAL AND INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGEMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR 1000002, THAT THE INCREASE IN TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER ."

Luck Waxford

Luck Waxford

08/31/2020 GASWCC LEVEL II DESIGN PROFESSIONAL DATE

(14) "I CERTIFY THAT I AM THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN AND HAVE INSPECTED THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS. PERIMETER CONTROL BMPS, AND SEDIMENT BASINS WITHIN 7 DAYS AFTER INSTALLATION."

DATE

0000060876

CERTIFICATION #

DEKALB COUNTY ES&PC NOTES

- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIME IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FO (20)EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMI CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR SEDIMENT SOURCE.

ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTO

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER TH DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDIN

EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES TO INSPECTED DAILY.

CUT AND FILL SLOPES SHALL NOT EXCEED 3H:1V ON RESIDENTIAL I AND SHALL NOT EXCEED 2H:1V ON ALL OTHER PROJECTS.

WEEKLY EROSION AND CONTROL REPORTS SHALL BE SUBMITTED DEVELOPMENT DEPARTMENT STARTING WITH THE ISSUANCE OF TH DEVELOPMENT PERMIT AND ENDING WHEN THE PROJECT IS RELEA THE INSPECTOR.

INSPECTIONS BY QUALIFIED PERSONNEL PROVIDED BY THE PRIMA PERMITTEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON SI COMPLIANCE WITH GAR100002.

ANY IMPERVIOUS WATER RUNOFF FROM LOTS BY-PASSING WATER POND MUST BE TREATED ON A LOT BY LOT BASIS.

INSTALLATION OF WATER QUALITY DEVICES SHALL BE CONCURREN FINAL STABILIZATION AND/OR PRIOR TO MAINTENANCE/PERFORMA EXPIRATION.

FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED (JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO DEKA COUNTY STANDARDS.

PROJECT NARRATIVE DISTRICT: 15 LAND LOTS: 251 & 252 DEKALB COUNTY, GEORGIA

PARCEL SITE AREA: 6 **DISTURBED AREA: 1.3** ON-SITE WETLANDS: WETLAND DISTURBA (THERE ARE NO WET

THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT A NEW SA LIFT STATION. THE PROJECT INCLUDES THE INSTALLATION OF SEWER LIFT STATION, INCLUDING WET WELL, VALVE VAULT, BA GENERATOR. ADDITIONALLY 375 LF OF 10", 805 LF OF 8", 175 LI SEWER, AND 226 LF OF 6" FORCE MAIN, AND 185 LF OF 18" RCP TO BE INSTALLED. THE PROJECT WILL DISTURB A TOTAL AREA APPROXIMATELY 1.30 ACRES. THE PROJECT AREA IS CURREN COMMERCIAL USE. THE PRE AND POST CONSTRUCTION RUN-C NUMBER IS APPROXIMATELY CN = 65.

THIS IS A LINEAR PROJECT, THE TOTAL DISTURBANCE AND SU PRACTICES ARE TO BE DONE IN SECTIONS. FINAL GRADE STA OCCUR AS EACH SECTION OF PIPE IS INSTALLED AND INSPECT THE EROSION CONTROL PLANS PRESENTED HERE ARE SHOW

BEFORE EACH NEW SECTION OF PIPE IS INSTALLED, SILT FEND CONSTRUCTION ACCESS IS TO BE ESTABLISHED, SILT FENCE REMOVED FROM THE CONSTRUCTION SITE UNTIL THE NOTICE IS FILED FOR THIS PROJECT.

AN UNNAMED TRIBUTARY OF INDIAN CREEK CREEK IS THE RE FOR THIS PROJECT. THERE ARE NO POTENTIAL CRITICAL AREA THIS PROJECT AREA.

THERE ARE NO STATE WATERS WITHIN 200 FEET OF THE PRO.

(29)	SCHEDU	JLE	OF N	MAJ	OR A	١СТ	V	
		MO	. 1-2	MO	. 3-4	MO. 5-		
	DECODIDION			(WEEI	KS AF	TER BEC		
	DESCRIPTION	4	8	12	16	20	24	
	INSTALLATION & MAINTENANCE OF TREE PROTECTION AND PERIMETER EROSION CONTROLS							
	ENGINEER'S INSPECTION	Ø						
	PHASE I - CLEARING AND GRUBBING							
	PHASE II - TEMPORARY VEGETATION							
	UTILITY INSTALLATION	E						
	PHASE III - PERMANENT VEGETATION							
	MAINTENANCE OF EROSION CONTROLS DEVICES	E						
	FINAL LANDSCAPING							
	REMOVE SEDIMENT CONTROL STRUCTURES							
I	*SEDIMENT AND EROSION CONTROL M	EASU	RES T	O BE	INSPE	ECTE	D D	

THROUGHOUT LAND DISTURBING ACTIVITIES.

SOILS SERIES INFORMATION

¥7)	CeC	CECIL SANDY LOAM, 6 TO 10 PERCENT SLOPES
	CUC	CECIL URBAN LAND, 2 TO 10 PERCENT SLOPES
	PfD	PACOLET SANDY LOAM, 10 TO 15 PERCENT SLOPES
	PfE	PACOLET SANDY LOAM, 15 TO 30 PERCENT SLOPES
	Ud	URBAN LAND

34	NEPHELOMETRIC TURBIDITY UNIT									
		WAF	RM WA SU	TER (SUPPOR WATER DF	TING W Rainage A	ARM W. Area, squ	ATEI are m		
	ζES		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-2		
	ACF	1.00-10	75	150	200	400	750	7.		
	ZE,	10.01-25	50	100	100	200	300	5		
	SI	25.01-50	50	50	100	100	200	3		
	ITE	50.01-100	50	50	50	100	100	1		
	S	100.01+	50	50	50	50	50	1		

30 32

TED BY THE RES AND	1 EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST INFRASTRUCTURE CONSTRUCTION PROJECTS	N/A 41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.	
IMES. IF FULL	SWCD: Project Name: Kensington Lift Station Address: 3550 Kensington Road	N/A 42 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.	
DE FOR DIMENT	City/County: Dekalb County Date on Plans: 6/2/2020	43 Delineation and acreage of contributing drainage basins on the project site.	
OR TREAT THE	Name & email of person filling out checklist:	45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are	
ND PRACTICES	Page # Y/N	completed.	
ECTOR.	CE-02 Y 1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1	N/A 46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion.	RIVER TO TAP
R THAN 14	(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)	Identity/Delineate all storm water discharge points.	
EDING.	ALL CE Y 2 Level II certification number issued by the Commission, signature and seal of the certified design professional.	Y 47 Soil series for the project site and their delineation.	1841 PEELER RD. UNIT C
S TO BE	(Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)		ATLANTA, GA 30338 PHONE: (678) 336-5721
TAL PROJECTS	CE-02 Y 3 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and polition controls.	Y 48 The limits of disturbance for each phase of construction.	WWW.R2TINC.COM
	CE-03,	retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage	
IED TO THE DF THE	CE-04 Y 5 Note total and disturbed acreage of the project or phase under construction.	volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been	
ELEASED BY	CE-03,	must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written	
	decimal degrees.	justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be	
IN SITE IN	ALL Y 7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.	when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to	
TER QUALITY	CE-02 Y 8 Description of the nature of construction activity.	utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from	
	COVER Y 9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.		
RRENT WITH RMANCE BOND	CE-02 Y 10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.	Y 50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and	
	CE-02 Y 11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC	Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.	
PED ON THE	Plan as stated on Part IV page 21 of the permit.	Y 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in	
	CE-02 Y 12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate	the Manual for Erosion and Sediment Control in Georgia.	
	CE-02 Y 13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative	V 52 Provide vegetative plan, noting all temporary and normanent vegetative practices. Include species, planting dates and	
Δ· 6 11+ ΔCRES	sampling as stated on Part IV.D.6.c.(3) page 37 of the permit as applicable. *	seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding	
: 1.30± ACRES	CE-02 Y 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the	will take place and for the appropriate geographic region of Georgia.	
BANCE: 0.00± ACRES	initial sediment storage requirements, perimeter control BiviPs, and sediment basins within 7 days after installation."	* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.	
V SANITARY SEWER	CE-01 Y 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream	Effective January 1, 2020	
N OF A SANITARY T, BACKUP	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."		
75 LF OF 6" GRAVITY RCP STORM DRAIN ARE	N/A 16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.		
REA OF RENTLY FOR COUNTY	CE-01 Y 17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a		
UN-OFF CURVE	hydraulic component must be certified by the design professional." *		
SUBSEQUENT BMP	CE-01 Y 18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *		
PECTED. THEREFOR	CE-02 Y 19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and		
FENCE AND	sediment control measures and practices prior to land disturbing activities."	(44)(45)	
NCE IS NOT TO BE TICE OF TERMINATION	Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented		
	to control or treat the sediment source."		OUE
ERECEIVING WATER AREAS IDENTIFIED FOR	CE-02 Y 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."	DIAL DR POF	
	N/A 22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream	N DECATUR RD	
RUJEUT AREA.	of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the permit is include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge	407 900 RUE SAINT GERMAIN	
TIES	to the Impaired Stream Segment. *	INDIAN LAKES CIR	
MO. 7-8 MO. 9-10 MO. 11-12	N/A 23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22		
4 28 32 36 40 44 48	requirements included in the TMDL Implementation Plan. *		
	CE-01 Y 24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum		NOLLO
	at the construction site is prohibited. *	154 Total alognation Ducham	VSTRUC
	CE-01 Y 25 Provide BivIPs for the remediation of all petroleum spills and leaks.	MENSINGTON RD	AENTS
	will occur after construction operations have been completed. *		CCRIP 1 COMN
	CE-01 Y 27 Description of practices to provide cover for building materials and building products on site. *	E Courrent C	DES DES DES
	CE-01 Y 28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *		DATE 3/25/1 1/3/2 2/4/2
	CE-02 Y 29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility	2057 REDAN RD REDAN RD NUDGE OR	
	activities, temporary and final stabilization).		
	CE-02 Y 30 Provide complete requirements of inspections and record keeping by the primary permittee. *	SCALE: 1:2400	
AILY. MAINTAIN BMP'S	CE-02 Y 31 Provide complete requirements of sampling frequency and reporting of sampling results. *		GEORG
	CE-02 Y 32 Provide complete details for retention of records as per Part IV.F. of the permit. *		No. 26889
	CE-02 Y 33 Description of analytical methods to be used to collect and analyze the samples from each location. *	404-218-5765	
	CE-02 Y 34 Appendix B rationale for NTO values at all obtain sampling points where applicable.	4 PRIMARY PERMITTEE DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT	FIVGINEER
	discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable. *	TINA STRICKLAND 404-218-5765 DeKalb County	GEORGE ANY
	PLANS Y 36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial	TSTRICKLAND@DEKALBCOUNTYGA.GOV GEORGIA	SHEET TITLE:
	sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs,		FROSION
	intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single	Conservation Commission	CONTROL
	PLANS Y 37 Graphic scale and North arrow	AP 01/11/21	NOTES
R FISHERIES)	PLANS Y 38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:	Luck Watforsdepartment is not responsible for any errors or omissions by engineers or other design	ISSUED: NOVEMBER 03. 2020
MILES	Existing Contours USGS 1": 2000' Topographical Sheets	Level II Certified Designates ion as ignores in the project.	PROJECT NO. 14-902883
249.99 250-499.99 500+	Proposed Contours 1": 400' Centerline Profile	CERTIFICATION NUMBER COMPANY of the provisions of approval of, any violation of any of the provisions of applicable codes	SCALE: NONE
750 750 500 750 750	as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation	ISSUED: U3/01/2020 Expire son of applicable codes or any other	CHKD BY: AR
50 750 750 50 300 600	Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.	ordinance of the jurisdiction shall not be valid. The incurrence of a permit based on construction documents and other data shall not prevent the	DESIGNED BY: GR
.00 200 100	Erosion & Sediment Control in Georgia 2016 Edition. *	GEORGIA CERTIFICATIFIC AT THORIZATION ON TOTAL OF THE ATTENDED	DRAWN BY: RC
		LICENSE 1469, page 658 been reviewed for	

altered without authorization from DeKalb County

				GEC	DRG	[A			
		UN	IIF	FORM CC	DII	٧G	SY	S1	EM
0	r sc	DIL EF	ROS	SION AND SE	DIME	ENT (CONT	RO	L PRACTICE
		GEOR	GIA	SOIL AND WATER	CONS	ERVAT		ОММ	IISSION
	ST	FRUCTU	RAL F	PRACTICES		S	TRUCTU	RAL F	PRACTICES
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION	CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM		ſ	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.	Sr	TEMPORARY STREAM CROSSING		ST (LABEL)	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipmer
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.	St	STORMDRAIN OUTLET PROTECTION		St.	A paved or short section of riprap channel a the outlet of a storm drain system preventi erosion from the concentrated runoff.
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.	Su	SURFACE ROUGHENING		⊢SuJ-1	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Cr	CONSTRUCTION ROAD STABILIZATION		نيب. پېښ	A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.	Tc	TURBIDITY CURTAIN		Te	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Dc	STREAM DIVERSION CHANNEL		\$	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.	Тр	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construct activities.
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.	Tr	TREE PROTECTION	\bigcirc	John Constant	To protect desirable trees from injury during construction activity.
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.	Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.
Dn2	PERMANENT DOWNDRAIN STRUCTURE	The second	0.12	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.					
Fr	FILTER RING	U		A temporary stone barrier constructed at storm drain inlets and pond outlets.					
\frown						· · · · ·		T\ / C C	
(Ga)	GABION		SF	Rock filter baskets which are hand-placed into position forming soil stabilizing structures.	CODE		EGETAT: DETAIL	IVE F	DESCRIPTION
Ga Gr	GABION GRADE STABILIZATION STRUCTURE		S G J	Rock filter baskets which are hand-placed into position forming soil stabilizing structures. Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.	CODE	V PRACTICE BUFFER ZONE			PRACTICES DESCRIPTION Strip of undisturbed original vegetation, enhance or restored existing vegetation or the reestablishment of vegetation surrounding an are of disturbance or bordering streams
Ga Gr Lv	GABION GRADE STABILIZATION STRUCTURE LEVEL SPREADER		Co Co Co Co Co Co Co Co Co Co Co Co Co C	Rock filter baskets which are hand-placed into position forming soil stabilizing structures. Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies. A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.	CODE Bf Cs	U PRACTICE BUFFER ZONE	DETAIL	IVE P SYMBOL	Strip of undisturbed original vegetation, enhance or restored existing vegetation or the reestablishment of vegetation surrounding an arr of disturbance or bordering streams. Planting vegetation on dunes that are denu artificially constructed, or re-nourished.
Ga Gr Lv Rd	GABION GRADE STABILIZATION STRUCTURE LEVEL SPREADER ROCK FILTER DAM		G G G G G G G G G G G G G G G G G G G	Rock filter baskets which are hand-placed into position forming soil stabilizing structures. Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies. A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils. A permanent or temporary stone filter dam installed across small streams or drainageways.	CODE Bf Cs Ds1	V PRACTICE BUFFER ZONE COASTAL DUNE STABILIZATION (WITH VEGETATION) DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	EGETAT	IVE P SYMBOL	DESCRIPTION Strip of undisturbed original vegetation, enhance or restored existing vegetation or the reestablishment of vegetation surrounding an are of disturbance or bordering streams. Planting vegetation on dunes that are denu artificially constructed, or re-nourished. Establishing temporary protection for disturbed areas where seedlings may not ha a suitable growing season to produce an erosion retarding cover
Ga Gr L Z Rd Re	GABION GRADE STABILIZATION STRUCTURE LEVEL SPREADER ROCK FILTER DAM RETAINING WALL			Rock filter baskets which are hand-placed into position forming soil stabilizing structures. Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies. A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils. A permanent or temporary stone filter dam installed across small streams or drainageways. A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.	Code Bf Cs Ds1 Ds2	PRACTICE BUFFER ZONE STABILIZATION (WITH VEGETATION) DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		IVE P SYMBOL (LABEL) CS DS1 DS2	Strip of undisturbed original vegetation, enhance or restored existing vegetation or the reestablishment of vegetation surrounding an arr of disturbance or bordering streams. Planting vegetation on dunes that are denu artificially constructed, or re-nourished. Establishing temporary protection for disturbed areas where seedlings may not ha a suitable growing season to produce an erosion retarding cover. Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ga Gr L Z R d R e R t	GABION GRADE STABILIZATION STRUCTURE LEVEL SPREADER ROCK FILTER DAM RETAINING WALL RETRO FITTING			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.A permanent or temporary stone filter dam installed across small streams or drainageways.A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.	Code Bf Cs Ds1 Ds2 Ds3	BUFFER ZONE BUFFER ZONE STABILIZATION (WITH VEGETATION) DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) DISTURBED AREA STABILIZATION (WITH TEMP SEEDING) DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		IVE P SYMBOL (LABEL) CS DS1 DS2 DS3	PRACTICES DESCRIPTION Strip of undisturbed original vegetation, enhance or restored existing vegetation or the reestablishment of vegetation surrounding an and of disturbance or bordering streams. Planting vegetation on dunes that are denuartificially constructed, or re-nourished. Establishing temporary protection for disturbed areas where seedlings may not ha a suitable growing season to produce an erosion retarding cover. Establishing a temporary vegetative cover with fast growing seedings on disturbed areas. Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ga Gr L Z R d R e R t S d 1	GABION GRADE STABILIZATION STRUCTURE LEVEL SPREADER ROCK FILTER DAM RETAINING RETRO FITTING SEDIMENT BARRIER			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.A permanent or temporary stone filter dam installed across small streams or drainageways.A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.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.	Code Bf Cs Ds1 Ds2 Ds3 Ds4	PRACTICE BUFFER ZONE STABILIZATION (WITH VEGETATION) DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) DISTURBED AREA STABILIZATION (WITH TEMP SEEDING) DISTURBED AREA STABILIZATION (WITH PERM SEEDING) DISTURBED AREA STABILIZATION (WITH PERM SEEDING) DISTURBED AREA STABILIZATION (SODDING)		IVE P SYMBOL CS CS DS1 DS2 DS3 DS4	PRACTICES DESCRIPTION Strip of undisturbed original vegetation, enhance or restored existing vegetation or the reestablishment of vegetation surrounding an and of disturbance or bordering streams. Planting vegetation on dunes that are denuarificially constructed, or re-nourished. Establishing temporary protection for disturbed areas where seedlings may not ha a suitable growing season to produce an erosion retarding cover. Establishing a temporary vegetative cover with fast growing seedings on disturbed areas. Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas. A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Ga Gr L Z R d R e R t S d 1 S d 2 S d	GABION STABILIZATION STRUCTURE LEVEL SPREADER ROCK FILTER DAM RETAINING RETRO FITTING SEDIMENT BARRIER INLET SEDIMENT TRAP			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.A permanent or temporary stone filter dam installed across small streams or drainageways.A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.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.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.	Code Bf Cs Ds1 Ds2 Ds3 Ds4 Du	PRACTICE BUFFER ZONE STABILIZATION (WITH VEGETATION) DISTURBED AREA STABILIZATION (WITH VEGETATION) DISTURBED AREA STABILIZATION (WITH VEGETATION) DISTURBED AREA STABILIZATION (WITH TEMP SEEDING) DISTURBED AREA STABILIZATION (WITH PERM SEEDING) DISTURBED AREA STABILIZATION (WITH PERM SEEDING) DISTURBED AREA STABILIZATION (WITH PERM SEEDING) DISTURBED AREA STABILIZATION (SODDING) DUST CONTROL ON DUST CONTROL ON		IVE P SYMBOL CS CS DS1 DS2 DS3 DS4 Du	PRACTICES DESCRIPTION Strip of undisturbed original vegetation, enhance or restored existing vegetation or the reestablishment of vegetation surrounding an are of disturbance or bordering streams. Planting vegetation on dunes that are denuarificially constructed, or re-nourished. Establishing temporary protection for disturbed areas where seedlings may not ha a suitable growing season to produce an erosion retarding cover. Establishing a temporary vegetative cover with fast growing seedings on disturbed areas. Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas. A permanent vegetative cover using sods on highly erodable or critically eroded lands. Controlling surface and air movement of dus on construction site, roadways and similar sites.
Ga Gr L X R R R R C R C C C C C C C C C C C C C	GABION STABILIZATION STRUCTURE LEVEL SPREADER ROCK FILTER DAM RETAINING RETRO FITTING SEDIMENT SEDIMENT TRAP TEMPORARY SEDIMENT BASIN			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.A permanent or temporary stone filter dam installed across small streams or drainageways.A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.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.A hasin 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.	CODE Bf Cs Ds1 Ds2 Ds3 Ds4 Du FI-Co	PRACTICE BUFFER ZONE STABILIZATION (WITH STABILIZATION (WITH VEGETATION) DISTURBED AREA STABILIZATION (WITH VEGETATION) DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) DISTURBED AREA STABILIZATION (WITH TEMP SEEDING) DISTURBED AREA STABILIZATION (WITH PERM SEEDING) DISTURBED AREA STABILIZATION (WITH PERM SEEDING) DISTURBED AREA STABILIZATION (WITH PERM SEEDING) DISTURBED AREA STABILIZATION (SODDING) DUST CONTROL ON DISTURBED AREAS FLOCCULANTS AND COAGULANTS		IVE P SYMBOL CS CS DS1 DS2 DS3 DS4 Du FI-C0	PRACTICES DESCRIPTION Strip of undisturbed original vegetation, enhance or restored existing vegetation or the reestablishment of vegetation surrounding an are of disturbance or bordering streams. Planting vegetation on dunes that are denuarificially constructed, or re-nourished. Establishing temporary protection for disturbed areas where seedlings may not ha a suitable growing season to produce an erosion retarding cover. Establishing a temporary vegetative cover with fast growing seedings on disturbed areas. Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas. A permanent vegetative cover using sods on highly erodable or critically eroded lands. Controlling surface and air movement of dus on construction site, roadways and similar sites. Substance formulated to assist in the solids/liquid separation of suspended particle in solution.
$ \begin{array}{c c} Ga \\ \hline G \\ \hline \\$	GABION STABILIZATION STRUCTURE LEVEL SPREADER ROCK FILTER DAM RETAINING RETAINING SEDIMENT SEDIMENT SEDIMENT TEMPORARY SEDIMENT TEMPORARY SEDIMENT TRAP			Rock filter baskets which are hand-placed into position forming soil stabilizing structures. Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies. A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils. A permanent or temporary stone filter dam installed across small streams or drainageways. A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design. A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter. 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. 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. A basin created by excavation or a dam acrosss a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out. 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.	Code Bf Cs Ds1 Ds2 Ds3 Ds4 Du Fl-Co Sb	PRACTICE BUFFER ZONE STABILIZATION (WITH VEGETATION) DISTURBED AREA STABILIZATION (WITH MULCHING (WITH MULCHING ONLY) DISTURBED AREA STABILIZATION (WITH TEMP SEEDING) DISTURBED AREA STABILIZATION (WITH TEMP SEEDING) DISTURBED AREA STABILIZATION (WITH TEMP SEEDING) DISTURBED AREA STABILIZATION (SODDING) DISTURBED AREA STABILIZATION (SODDING) DISTURBED AREA STABILIZATION (SODDING) DISTURBED AREA STABILIZATION (SODDING) DUST CONTROL ON DISTURBED AREAS FLOCCULANTS AND COAGULANTS STREAMBANK STREAMBANK STREAMBANK STREAMBANK		IVE P SYMBOL CS CS DS1 DS2 DS3 DS4 DS4 Du FI-C0 Sb	PRACTICES DESCRIPTION Strip of undisturbed original vegetation, enhance or restored existing vegetation or the reestablishment of vegetation surrounding an arro of disturbance or bordering streams. Planting vegetation on dunes that are denuarificially constructed, or re-nourished. Establishing temporary protection for disturbed areas where seedlings may not ha a suitable growing season to produce an erosion retarding cover. Establishing a temporary vegetative cover with fast growing seedings on disturbed areas. Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas. A permanent vegetative cover using sods on highly erodable or critically eroded lands. Controlling surface and air movement of dus on construction site, roadways and similar sites. Substance formulated to assist in the solids/liquid separation of suspended particle in solution. The use of readily available native plant materia maintain and enhance streambanks, or to preven restore and repair small streambank erosion problems.
$ \begin{array}{c c} Ga \\ \hline G \\ \hline \\$	GABION GRADE STABILIZATION STRUCTURE LEVEL SPREADER RETAINING RETAINING RETRO FITTING SEDIMENT SEDIMENT TRAP TEMPORARY SEDIMENT BASIN TEMPORARY SEDIMENT BASIN			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.A permanent or temporary stone filter dam installed across small streams or drainageways.A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.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.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.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.A shouyant device that releases/drains water from the surface of sediment basin is the lack of a pipe or riser.A buoyant device that releases/drains water from the surface of flow.	CODE Bf Cs Ds1 Ds2 Ds3 Ds4 Du Fl-Co Sb Ss	PRACTICE BUFFER ZONE STABILIZATION (WITH STABILIZATION (WITH VEGETATION) DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) DISTURBED AREA STABILIZATION (WITH TEMP SEEDING) DISTURBED AREA STABILIZATION (WITH PERM SEEDING) DISTURBED AREA STABILIZATION (SODDING) DISTURBED AREA STABILIZATION (SODDING) DUST CONTROL ON DISTURBED AREAS FLOCCULANTS AND COAGULANTS STREAMBANK STABILIZATION (USING PERM VEGETATION) SLOPE STABILIZATION		IVE P SYMBOL CS CS DS1 DS2 DS3 DS4 DS4 DU FI-CO Sb SS	PRACTICES DESCRIPTION Strip of undisturbed original vegetation, enhance or restored existing vegetation or the reestablishment of vegetation surrounding an arr of disturbance or bordering streams. Planting vegetation on dunes that are denu artificially constructed, or re-nourished. Establishing temporary protection for disturbed areas where seedlings may not ha a suitable growing season to produce an erosion retarding cover. Establishing a temporary vegetative cover with fast growing seedings on disturbed areas. Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas. A permanent vegetative cover using sods on highly erodable or critically eroded lands. Controlling surface and air movement of dus on construction site, roadways and similar sites. Substance formulated to assist in the solids/liquid separation of suspended particle in solution. The use of readily available native plant materia maintain and enhance streambanks, or to preven restore and repair small streambank erosion problems. A protective covering used to prevent erosio and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

<u>GSWCC</u>

Certification Number

ISSUED: <u>03/01/2020</u>

Luck Watford

Level II Certified Design Professional

Georgia Soil and Water Conservation Commission

0000060876

Expires: 03/01/2023

S

iginal vegetation, enhanced getation or the jetation surrounding an are lering streams. on dunes that are denue

cted, or re-nourished. rary protection for nere seedlings may not hav

nanent vegetative cover ubs, vines, grasses, or

and air movement of dust

ailable native plant materials streambanks, or to preven all streambank erosion

GaSWCC (Amended - 2013)

1 FASTENERS FOR SILT FENCE

Sd1-S

	RAT
	RIVER TO TAP
	1841 PEELER RD.
	UNIT C ATLANTA, GA 30338 PHONE: (678) 336-5721
	WWW.R2TINC.COM
<form><form></form></form>	
<complex-block></complex-block>	CLENT: DEKALB C DEPARTM WATER MANAGE
	PROJECT: KENSINGTON ROAD PUMP STATION & PIPELINE PROJECT
DeKalb County	REV DATE DESCRIPTION 0 9/25/20 ISSUED FOR CONSTRUCTION 1 11/3/20 LDP COMMENTS 2 12/4/20 LDP COMMENTS 1 11/3/20 LDP COMMENTS
(2) CENTROLOGY CONTROL CONTROL OF CONTROL	SHEET TITLE: EROSIONAL JZ/04/20 ENGINEER SHEET TITLE: EROSION CONTROL DETAILS ISSUED: NOVEMBER 03, 2020 PROJECT NO. 14–902883 SCALE: NONE CHKD BY: AR DESIGNED BY: GR DRAWN BY: RC

PER ACREPER 1000 SFJ F M A M J J A S O N DBARLEY $M - L$ $M - L$ P $A M J J A S O N D$ ALONE144 LBS3.3 LBS C P $A M J J A S O N D$ LESPEDEZA, ANNUAL144 LBS0.6 LBS $O.6$ LBS $M - L$ P $A J A S O N D$ ALONE144 LBS0.6 LBS0.9 LBS C $A J A S O N D$ $A J A S O N D$ LESPEDEZA, ANNUAL $A J A S O N D$ ALONE40 LBS0.9 LBS $O.2$ LBS $M - L$ $P C$ $A J A S O N D$ $A J A S O N D$ LOVEGRASS, WEEPING $A J A S O N D$ MILLET, BROWN TOP $A J A S O N D$ $M - L$ $P C$ $A J A S O N D$ $A J A S O N D$ $A J A S O N D$ ALONE40 LBS0.9 LBS $O.5$ LBS $M - L$ $P C$ $A J A S O N D$ $A J A S O N D O SEED PIN MAY VOLUNTEERMILLET, BROWN TOPA J A J A S O A J A J A S O A J A J A J A J A J A J A J A J A J A$	
BARLEY M-L	
ALONE 144 LBS 3.3 LBS P C C C C ON PRODUCTIVE LESPEDEZA, ANNUAL 24 LBS 0.6 LBS M-L P C ON PRODUCTIVE ON PRODUCTIVE ALONE 40 LBS 0.9 LBS C P C ON PRODUCTIVE ON PRODUCTIVE ALONE 40 LBS 0.9 LBS C O ON PRODUCTIVE ON PRODUCTIVE LOVEGRASS, WEEPING 0.2 LBS M-L P ON PRODUCTIVE ON PRODUCTIVE ALONE 4 LBS 0.1 LBS C ON PRODUCTIVE ON PRODUCTIVE MILLET, BROWN TOP 4 LBS 0.1 LBS C ON PRODUCTIVE In 500,000 SEED MILLET, BROWN TOP ALONE 40 LBS 0.9 LBS M-L P In 500,000 SEED MILLET, BROWN TOP ALONE 40 LBS 0.9 LBS O.9 LBS In 50,000 SEED PE IN MIXTURE 40 LBS 0.9 LBS In 50,2 LBS In 50,000 SEED PE In 50,000 SEED PE IN MIXTURE 10 LBS 0.2 LBS In 50,000 SEED PE In 50,000 SEED PE In 50,000 SEED PE IN	
NLORE INF LDS O.S LDS C ON PRODUCTIVE IN MIXTURE 24 LBS 0.6 LBS C Image: Construction of the construc	JSE
LESPEDEZA, ANNUAL ALONE IN MIXTURE 40 LBS 10 LBS 0.2 LBS 0.4 LBS 0.5	SOILS
ALONE 40 LBS 0.9 LBS P 200,000 SEED PI IN MIXTURE 10 LBS 0.2 LBS C Image: Comparison of the compa	
ALONE 40 LBS 0.9 LBS C USE INOCULANT IN MIXTURE 10 LBS 0.2 LBS C IN MIXTURE IN CULANT LOVEGRASS, WEEPING M-L P M-L M-L MAY LAST FOR S ALONE 4 LBS 0.1 LBS 0.05 LBS M-L M-L MAY LAST FOR S MILLET, BROWN TOP 0.05 LBS M-L P IN MIXTURE IN MIXTURE IN COMPARISON IN MIXTURE <	ER POUND FOR SEVERAL YE/
LOVEGRASS, WEEPING ALONE IN MIXTURE ALONE IN MI	EL.
LOVEGRASS, WEEPING ALONE IN MIXTURE ALONE IN MIXTURE 4 LBS 2 LBS 0.05 LBS 0.05 LBS M-L P C C M-L P C C M-L P C C M-L P C C M-L P C C M-L C C C C C C C C C C C C C	
ALONE 4 LBS 0.1 LBS P 1,500,000 SEED IN MIXTURE 2 LBS 0.05 LBS P Image: Constraint of the second s	
ALONE 4 LBS 0.1 LBS C IN MIXTURE 2 LBS 0.05 LBS C MILLET, BROWN TOP M-L M-L ALONE 40 LBS 0.9 LBS IN MIXTURE 10 LBS 0.2 LBS	EVERAL YEARS.
MILLET, BROWN TOP ALONE 40 LBS 0.9 LBS 0.9 LBS IN MIXTURE 0.2 LBS 0.2 LBS 0.2 LBS 0.0	A LESPEDEZA
MILLET, BROWN TOP ALONE 40 LBS 0.9 LBS IN MIXTURE 10 LBS 0.2 LBS M-L P C M-L P C M-L P C M-L P C M-L P C M-L P C M-L P C M-L P C M-L P MUCH COMPETITION IF SEEDED AT HIM	
ALONE 40 LBS 0.9 LBS COVER. W IN MIXTURE 10 LBS 0.2 LBS COVER. W UCH COMPETITION IF SEEDED AT HIM	ER POUND, QUICK
IN MIXTURE 10 LBS 0.2 LBS C IF SEEDED AT HI	ILL PROVIDE TOO
	GH RATES
ALONE 3 PLI 3 9 LPS P COVER. DROUGHT	TOLERANT AND
IN MIXTURE 1/2 BU 0.6 LBS C WINTER HARDY	
RYEGRASS, ANNUAL M-L M-L 227 000 SEED BY	
ALONE ALONE P COVER. VERY CO	IN TOURD. DENSE
	MPETITIVE AND IS

C REPRESENTS THE SOUTHERN COASTAL PLAIN; SAND HILLS; AND ATLANTIC COAST. FLATWOOS MLRA'S

DISTURBED AREA STABILIZATION (TEMP)

Ds2

Ds3

SCALE:NTS

E42

SPECIES	BRO	ADCAST	RESOURCE	REA		I	PLA	NTI	NG	D	ATE	ES		REMARKS
	PER ACRE	PER 1000 SF		l	F	M		A J	J	A	S	0	N	
BERMUDA, COMMON HULLED SEED ALONE WITH OTHER PERENNIALS	10 LBS 6 LBS	0.2 LBS 0.1 LBS	P C						_					1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS
BERMUDA, COMMON UNHULLED SEED W/TEMP COVER WITH OTHER PERENNIALS	10 LBS 6 LBS	0.2 LBS 0.1 LBS	P C	_	-									PLANT WITH WINTER ANNUALS PLANT WITH TALL FESCUE
CENTIPEDE	BLOCK SOD OF	NLY	P C											DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACENT TO CONC. AND IN CONCENTRATED FLOW AREAS. IRRIGATION IS NEEDED UNTIL FULLY ESTABLISHED. DO NOT PLANT NEAR PASTURES.
CROWNVETCH WITH WINTER ANNUALS OR COOL SEASON GRASSES	15 LBS	0.3 LBS	M-L P											100,000 SEED PER POUND. DENSE GROWTH. DROUGHT TOLERANT AND FIRE RESISTANT. MIX WITH 30 LBS. OF TALL FESCUE OR 15 LBS. OF RYE. INNOCULATE SEED WITH M INOCULANT. USE FROM NORTH ATLANTA & NORTHWARD
FESCUE, TALL ALONE W/OTHER PERENNIALS	50 LBS 30 LBS	1.1 LBS 0.7 LBS	M-L P							-				227,000 SEED PER POUND. USE ALONE ONLY ON BETTER SITES. NOT FOR DROUGHT SOILS. MIX WITH PERENNIAL LESPEDEZAS OF CROWNVETCH. APPLY TOPDRESSING IN SPRING FOLLOWING FALL PLANTINGS NOT FOR HEAVY USE AREAS OR ATHLETIC FIELDS
LESPEDEZA SCARIFIED UNSCARIFIED	60 LBS 75 LBS	1.4 LBS 1.7 LBS	M-L P C-L P C											300,000 SEED PER POUND. HEIGHT OF GROWTH IS 18 TO 24 INCHES. ADVANTAGES IN URBAN AREAS. MIX W/ WEEPING LOVEGRASS, COMMON BERMUDA BAHIA, TALL FESCUE, OR WINTER ANNUALS, INOCULATE SEED W/ EL INOCULANT.

P REPRESENTS THE SOUTHERN PIEDMONT MLRA C REPRESENTS THE SOUTHERN COASTAL PLAIN; SAND HILLS; BLACK LANDS; AND ATLANTIC COAST.

FLATWOOS MLRA'S

<u>NOTE:</u> AGRIGULURAL LIME SHALL BE APPLIED AS INDICATED BY SOIL TEST OR AT THE RATE OF 1 TO 2 TONS PER ACRE.

DISTURBED AREA STABILIZATION (PERM) SCALE:NTS E43

CROSS SECTION 2 (W-E)

CROSS SECTION 1 (S-N)

WATER QUALITY VOLUME CALCULATIONS:

NEW IMPERVIOUS AREA - 4925 SF DRAINAGE AREA TO WQ - 23,854 SF (0.54 ACRES) WITH THE EXCEPTION OF THE SMALL AREA FROM THE TOP OF THE HILL TO THE ENTRANCE, THE OTHER DISTURBED ACREAGE IS LAYING OF SANITARY SEWER MAINS IN PERVIOUS AREAS OR IN KENSINGTON ROAD.

VQv = (1.2) (Rv) (A)/12	Rv = 0.05 + 0.009 (I)
VQv = (1.2) (0.2358) (23,854)/12	Rv = 0.05 + 0.009 (20.65)
VQv = 563 CF	Rv = 0.2358

WQv PROVIDED WQV PROVIDED = TRENCH VOLUME OF ENGINEERED SOILS TRENCH VOLUME = LENGTH*WIDTH*DEPTH*POROSITY TV = (40') * (9') * (4') *(0.4)= 576 CF

> jobsite at all times and shall not be modified or altered without authorization from DeKalb County Development Services.

PI Razing, We Ganical, Gas, and Electrical sections

LICENSE NO.: PEFO02653 been reviewed for compliance with technical codes and will be EXPIRATION CHARGE STREET

DeKalb County

DEVELOPMENT SERVICES

GEORGIAOPAPMROVED

The issuance or granting of a permit shall not be considered to be approved of, any violation of any of the provisions of applicable codes Expires on other ordinance of the jurisdiction. Permits presuming to give authority to violate or cancel the presuming to give authority to violate or cancel the

provisions of applicable codes or any other ordinance of the jurisdiction shall not be valid. The

1244223

_____ DATE 01/11/21

requirements of this project.

documents and other data shall not prevent the GEORGIA CERTIFICATION OF AUTHORIZATION CONTROL

D

AP

Luck Watforschepartment is not responsible for any errors or omissions by engineers of other design Level II Certified Designafees in making or county code

GSWCC

Certification Number Issued: <u>03/01/2020</u>

- 970

980

- 990

(IN FEET) 1 inch = 10 ft.

CLIENT:		DENALD UU	DEPARTMEN		WALEKON	MANAGEM								
PROJECT:		 KENSINGTON ROAD PUMP STATION & PIPELINE PROJECT 2010 R2T INC. 												
REV DATE DESCRIPTION	0 9/25/20 ISSUED FOR CONSTRUCTION	1 11/3/20 LDP COMMENTS	2 12/4/20 LDP COMMENTS											
SH	Image: Book of the second state of													
ISS PR(SC/ CHI DES	UED: DJEC ALE: ALE: SIGNI	<u>NOV</u> <u>T NOV</u> <u>NON</u> <u>BY:</u> <u>ED E</u> BY:	/EME 0. 1 E A BY: G	3ER 4-9 .R :R	03,	33	0							

CE-07

<u>NOTES</u>

- 1. PROVIDE ADDITIONAL FRAMING AND CONNECTION ELEMENTS AS REQUIRED BY CALCULATION.
- 2. PROVIDE STEEL STRUCTURAL DECK IF REQUIRED BY CALCULATION.
- 3. ATTACH DECK TO SUPPORT BEAM AS REQUIRED BY MFR AND CALCULATION.
- 4. CENTER CANOPY OVER ELECTRICAL AND CONTROL EQUIPMENT.
- 5. PROVIDE COATING BETWEEN STEEL AND ALUMINUM MEMBERS.
- 6. ALL FIELD ASSEMBLY OF FRAMING MEMBERS SHALL BE BOLTED. FIELD WELDING IS NOT PERMITTED.

- 1. PROVIDE THICKENED SLAB AT EACH COLUMN. SIZE AND DEPTH AS REQUIRED BY CALCULATION FOR WIND UPLIFT AND OVERTURNING AND FOR ANCHOR EMBEDMENT.
- 2. DETERMINE EMBEDMENT DEPTH AS REQUIRED BY CALCULATION.

1. STRUCTURAL GENERAL NOTES ARE PROVIDED ON DRAWINGS G-04 AND G-05

2. FOR ADDITIONAL INFORMATION ON THE LIFT STATION, SEE DRAWING C-06.

1. PROVIDE SLOT ON BOTTOM OF DIVIDER WALL AND ALONG SIDES. SIDES SHALL EXTEND FULL HEIGHT OF PUMP STATION FOR FUTURE REMOVAL.

3. DIVIDER WALL SHALL BE DESIGNED AND DETAILED TO BE SET IN PLACE, RESIST LIQUID PRESSURE FROM PUMP SIDE AND PREVENT LIQUID FROM PASSING

STRUCTURAL

PLANS &

SECTIONS

ISSUED: SEPTEMBER 25, 2020

PROJECT NO. 14-902883

CALE: AS NOTED

CHKD BY: DP

SIGNED BY: DP

RAWN BY: JRC

S-01

APPROVED

1244223 AP DATE_______

This Department is not responsible for any errors or omissions by engineers or other design professionals on design or county code requirements of this project

The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any violation of any of the provisions of applicable codes or of any other ordinance of the jurisdiction. Permits presuming to give authority to violate or cancel the

provisions of applicable codes or any other ordinance of the jurisdiction shall not be valid. The documents and other data shall not prevent the GEORGIA CERTIFICATE OF AUTHORIZATION TORS. Plan 2 The Ganical, Gas, and Electrical sections LICENSE NO. PEFO094653 been reviewed for compliance with technical codes and will be EXPIRATION ended the shape a shap

Development Services.

jobsite at all times and shall not be modified or

altered without authorization from DeKalb County

	SCHEMATIC DIAGRAM SYMBOLS		ONE LINE DIAGRAM SYMBOLS	GENERAL ABBREVIATIONS						
	CONDUCTORS CONNECTED CONDUCTORS NOT CONNECTED	CB-XXX	LOW VOLTAGE POWER CIRCUIT AND BREAKER DRAWOUT TYPE, FRAME TRIP SHOWN	AR AS A, AMP AC	ALARM RELAY AMMETER SELECTOR SWITCH AMP(S), AMPERE(S) ALTERNATING CURRENT	MCC MCP MECH	MOTOR CONTROL CENTER MOTOR CONTROL PANEL/MOTOR CIRCUIT PROTECTOR MECHANICAL	1. SCOPE: A. FU ELI SW		
× XX O	CONNECTION POINT TERMINAL POINT FOR OUTGOING CONDUCTORS, WITH IDENTIFICATION. "XX"	CB-XXX	MOLDED CASE CIRCUIT BREAKER, FRAME AND TRIP ID SHOWN	AFF AHAP AIC AI	ABOVE FINISHED FLOOR AS HIGH AS POSSIBLE AMPS INTERRUPTING CAPACITY, SYMM. AI UMINUM	MFR MH MIC MIN	MANUFACTURE(R) MANHOLE MICROPHONE MINIMUM	OR B. OB		
	MAGNETIC-ONLY CIRCUIT BREAKER (MCP), WITH CURRENT RATING	I	LIGHTNING ARRESTOR AND GROUND	AT AF AUTO AUX	AMPERE TRIP AMPERE FRAME AUTOMATIC AUXILIARY	MISC mM mV MCM	MISCELLANEOUS MILLIMETER MILLIVOLT MILLI CIRCULAR MILLS	JU FEI C. ALI		
	CIRCUIT BREAKER, THERMAL—MAGNETIC UNLESS OTHERWISE NOTED, WITH FRAME SIZE AND TRIP RATING	S DS-XXX	DISCONNECT OR ISOLATING SWITCH: CONTINUOUS RATING SHOWN	AWG BC BKR	AMERICAN WIRE GAUGE BARE COPPER CONDUCTOR BREAKER	MOP MPR MCB MTR MVS	MOTOR OPERATOR PANEL MOTOR PROTECTION RELAY MAIN CIRCUIT BREAKER MOTOR MEDIUM VOLTAGE STARTER	OP DR D. WC		
FUXXX-XX	FUSE WITH SIZE AND OPTIONAL IDENTIFICATION.	°) MCP-XXX	MAGNETIC-ONLY CIRCUIT BREAKER (MCP), DRAWOUT TYPE, WITH CURRENT RATING	C CB CJB CKT	CONDUCTOR/CONTACTOR CIRCUIT BREAKER CIRCUIT JUNCTION BOX CIRCUIT	N/A NC NEUT,N	NOT APPLICABLE NORMALLY CLOSED NEUTRAL	AU 2. ALL SU		
DSXXX-XX XXXA	DISCONNECT SWITCH. RATING OPTIONAL. 30 AMP, 600V RATED MINIMUM UNLESS OTHERWISE NOTED.	FS-XXX	FUSED SWITCH: FUSE AND SWITCH CONTINUOUS RATINGS SHOWN	CLG CR CND CONC CS	CEILING CONTROL RELAY CONDUIT CONCRETE CONTROL SWITCH	NIC NO NOM NP NTS	NOT IN CONTRACT NORMALLY OPEN NOMINAL NAMEPLATE NOT TO SCALE	3. CONTRA CONTRA THE INS		
FUXXX-XX	FUSE DISCONNECT SWITCH. RATING OPTIONAL. 30 AMP, 600V MINIMUM UNLESS OTHERWISE NOTED.	TFR-XXX	POWER TRANSFORMER: PRIMARY & SECONDARY VOLTAGES, %7, SIZE SHOWN	CONT CPT CT CU	CONTROL CONTROL POWER TRANSFORMER CURRENT TRANSFORMER COPPER	OC OD OH	ON CENTER OUTSIDE DIAMETER OVERHEAD	CONDUI 4. ALL CO USE #1		
MSR-XXX	MOTOR (HP AS SHOWN, PHASES AS REQUIRED)	XS	CURRENT TRANSFORMER: RATIO SHOWN (3 INDICATES NO. OF CT'S) <u>METER SWITCH, xS:</u> AS – AMMETER SWITCH	D DB DC DET DIAG DPSH	DIAMETER DUCT BANK DIRECT CURRENT DETAIL DIAGRAM DIFFERENTIAL PRESSURE SWITCH	OL S OT PA PB PE	OVERLOADS OIL TIGHT POLE PUBLIC ADDRESS PUSHBUTTON, PULLBOX PHOTO ELECTRIC CELL	THWN-2 BE TC 5. POWER STRAND CABLES		
	MOTOR STARTER COIL		VS – VOLTMETER SWITCH FS – FREQUENCY SWITCH POTENTIAL TRANSFORMER PRIMARY & SECONDARY VOLTAGES &	EA EC	EACH ELECTRICAL CONTRACTOR	PF PH PJB PLC PNL	POWER FACTOR PHASE POWER JUNCTION BOX PROGRAMMABLE LOGIC CONTROLLER PANEL	6. ALL EXI MINIMUN CONDUI		
M-XXX M-XXX H HO	MOTOR CONTACT		WINDINGS SHOWN. (x) UNITS $\frac{\text{METER:}}{\text{A}} = \text{AMMETER}$	EF EL ELEC EMER	EXHAUST FAN ELEVATION ELECTRIC(AL) EMERGENCY	PP PR PRI PS	POWER PANEL PAIR PRIMARY PRESSURE SWITCH	7. ALL FIT 8. CONTRA CABLE		
	LIMIT SWITCH NORMALLY CLOSED AND NORMALLY OPEN	METER	W – WATTMETER KWH – WATT-HOUR METER F – FREQUENCY METER	ENCL EP EX, E	ENCLOSURE/ENCLOSED EXPLOSION PROOF EQUIP. EXISTING	PT PVC PWR	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE POWER	9. CONTRA		
	PRESSURE SWITCH NORMALLY CLOSED AND NORMALLY OPEN	Å	VAR – VAR METER V – VOLTMETER	FCP FDR FLA	FURNISHED WITH EQUIPMENT PANEL FEEDER FULL LOAD AMPS	QSH RCPT	SHEAR PIN LIMIT SWITCH	SPARE 10. ALL EQ		
۲۵۵۵۵–۵۵۵ ۲۵۵۵۵–۵۵۵ ۲۶۵۵۵–۵۷ FSXXX–۵۶ ۲۶۵۵۵–۵۵	TEMPERATURE SWITCH NORMALLY CLOSED AND NORMALLY OPEN	J SIZE 1	FULL VOLTAGE, NON-REVERSING MAGNETIC MOTOR STARTER. NEMA SIZE INDICATED	FPP FS FU FU	FIBER OPTIC DISTRIBUTION PANEL FLOW SWITCH FUSE	RCI REF RMS	REACTOR REFERENCE REQ'D REQUIRED ROOT MEAN SQUARE	11. ALL RE AND WA		
FLTXXX-XX FLTXXX-XX	FLOW SWITCH NORMALLY CLOSED AND NORMALLY OPEN		FULL VOLTAGE, REVERSING MAGNETIC MOTOR STARTER. NEMA SIZE	FUT FVNR FVR	FUTURE FULL VOLTAGE NON-REVERSING FULL VOLTAGE REVERSING	SCH	SCHEDULE			
PRSXXX-XX PRSXXX-XX	LEVEL SWITCH NORMALLY CLOSED AND NORMALLY OPEN PROXIMITY SWITCH NORMALLY CLOSED AND NORMALLY OPEN	VFD-XXX	INDICATED VARIABLE FREQUENCY DRIVE.	GALV GEN GFR GRD	GALVANIZED GENERATOR GROUND FAULT RELAY GROUND	SE SEC SEL SER SPDT	SPEED SEINSOR SECONDARY SELECTOR SERVICE ENTRANCE RATED SINGLE POLE DOUBLE THROW	м мо		
PCSXXX-XX PCSXXX-XX	PULICORD SWITCH NORMALLY CLOSED AND NORMALLY OPEN		NEMA SIZE INDICATED	GRS H	GALVANIZED RIGID STEEL	SPEC SPHTR SPKR	SPECIFICATION MOTOR SPACE HEATER SPEAKER			
SVXXX-XX orro	SOLENOID VALVE	XXHP RVSS-XXX	REDUCED VOLTAGE SOLID STATE DRIVE (SOFT START). NEMA SIZE INDICATED	HGI HH HID HP	HEIGHT HANDHOLE HIGH INTENSITY DISCHARGE HORSEPOWER	SS SSL SUB SW	STAINLESS STEEL SPEED SWITCH SUBSTATION SWITCH			
PBXXX-XX PBXXX-XX	MOMENTARY PUSHBUTTON NORMALLY CLOSED AND NORMALLY OPEN	XX	MOTOR (HP AS SHOWN, PHASES AS REQUIRED)	HS HVAC HZ HOA	HAND STATION (SWITCH) HEATING, VENTILATION AND AIR CONDITIONING HERTZ (CYCLES PER SECOND) HAND/OFF/AUTO	SYMM SYS SV SPB	SYMMETRICAL SYSTEM SOLENOID OPERATED VALVE SIGNAL PULL BOX			
$SSXXX - XX \qquad SSXXX - XX$	SELECTOR SWITCH NORMALLY CLOSED AND NORMALLY ODEN	M-XXX		HOR HMH	HAND/OFF/REVERSE HIGH VOLTAGE MANHOLE	TB TEL TEMP	TERMINAL BOX TELEPHONE TEMPERATURE	PRI		
	TIME DELAY SWITCH NORMALLY CLOSED AND NORMALLY OPEN		GENERATOR RECEPTACLE	ID IMC INTLK INST	INSIDE DIAMETER INDIVIDUAL MOTOR CONTROLLER INTERLOCK INSTANTANEOUS	TFR TH TJB TSH	TRANSFORMER THERMOSTAT TERMINAL JUNCTION BOX TEMPERATURE SWITCH HIGH	STA (NE		
0-30 SEC 0-30 SEC		May of MTS-XXX	MANUAL TRANSFER SWITCH	INSTR I/O JB	INSTRUMENT INPUT-OUTPUT JUNCTION BOX	TV TYP TR TVSS TSP	TELEVISION TYPICAL TIMING RELAY TRANSIENT VOLTAGE SURGE SUPPRESSOR TWISTED SHIELDED PAIR	\$ _X 120		
X	PILOT LIGHT X = LENS COLOR $A = AMBER$ B = BLUE G = GREEN P = PED	$\sim \underbrace{P - XXX - X}_{(-1)}$	<u>CABLE_TAG:</u> P – POWER_CABLE	KV KVA KVAR KW	KILOVOLT KILOVOLT–AMPERE KILOVOLT–AMPERE REACTIVE KILOWATT	UG UH UON	UNDERGROUND UNIT HEATER UNLESS OTHERWISE NOTED			
	W = WHITE CONTROL RELAY	x/c #xx 1/c #xx GND IN x"C.	C – CONTROL CABLE S – SHIELDED SIGNAL CABLE		KILOWATT-HOUR KILO AMPERE INTERRUPTING CURRENT	V VA	VOLT VOLT AMPERE			
	CONTROL RELAY CONTACT NORMALLY CLOSED AND NORMALLY OPEN		CIRCUIT AND RACEWAY SYMBOLS		LOCAL CONTACTOR LIGHTING CONTACTOR LOCAL CONTROL PANEL	VAR VFD VSH	VARIABLE FREQUENCY DRIVE VIBRATION SWITCH			
ALXXX-XX		RACE	WAY OR WIRING SYSTEM ABOVE FLOOR LEVEL BELOW CEILING, EXPOSED. ESS OTHERWISE NOTED)	LP LOS LSIG	LIGHTING PANEL LOCK-OUT STOP LONG, SHORT, INSTANTANEOUS TRIP SETTING AND GROUND FAULT PROTECTION	W/ W/O WE	WATT, WIRE, WIDE WITH WITHOUT WEIGHT LOAD CELL			
	ALARM LIGHT	RACE	WAY OR WIRING SYSTEM BELOW FLOOR LEVEL, ABOVE CEILING, HIDDEN, OR	LSL LSO LSC	LEVEL SWITCH LOW LIMIT SWITCH OPEN LIMIT SWITCH CLOSED	WIT WP	WEIGHT INDICATING TRANSMITTER WEATHERPROOF			
AHXXX-XX	ALARM HORN	UNLE SCHE	ESS OTHERWISE NOTED) MATIC DIAGRAM FIELD WIRING.	LIG LV LSH	LIGHTING LOW VOLTAGE LEVEL SWITCH HIGH	XL XT 7S	ANEMOMETER	604 (NE		
H1 H2		UNLE	ESS OTHERWISE NOTED) LINE DIAGRAM EQUIPMENT ENCLOSURE.	M mA MAX	MOTOR CONTACTOR MILLIAMPERE MAXIMUM	ZSO ZSC ZT	POSITION (LIMIT) SWITCH OPEN POSITION (LIMIT) SWITCH CLOSED POSITION TRANSMITTER			
	CUNTRUL POWER TRANSFORMER, PRIMARY AND SECONDARY VOLTAGE SHOWN. SIZE AS SHOWN OR SPECIFIED.	(UNLE	ess otherwise noted) NDING CONDUCTOR (CONCEALED), #4/0 AWG BARE COPPER	MCB	MAIN CIRCUIT BREAKER					
$\bigcap_{C.T.}^{2} CTXXX-XX$	CURRENT TRANSFORMER. PRIMARY/SECONDARY TURNS RATIO AS	Baggaaggaaggaaa GROU	NDING CONDUCTOR (EXPOSED), $\#4/0$ AWG INSULATED COPPER							
Υ Υ	งแพบแร	HOME	RUN – SEE PANELBOARD SCHEDULE FOR CIRCUIT INFORMATION							

GENERAL NOTES:			
NISH ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS REQUIRED TO COMPLE CTRICAL SYSTEM INCLUDING BUT NOT LIMITED TO WIRING, BOXES, LIGHT FIX TCHES, RECEPTACLES, DISCONNECTS, STARTERS, AND ALL OTHER WORK IND AS SPECIFIED HEREIN.	TE INSTALLATION OF THE XTURES, PANELS, DICATED ON THE DRAWINGS		RIVER TO TAP
AIN ALL PERMITS, INSPECTIONS, AND APPROVALS AS REQUIRED BY THE LO ISDICTION AND DELIVER CERTIFICATE OF APPROVAL TO THE GENERAL CONTI S SHALL BE PAID BY THE CONTRACTOR.	CAL AUTHORITIES HAVING RACTOR. ALL ASSOCIATED		1841 PEELER RD. UNIT C
MATERIALS AND EQUIPMENT OF THE ELECTRICAL SYSTEM NECESSARY FOR RATION OR OTHERWISE REQUIRED BY CODE, BUT NOT SPECIFICALLY MENTIC WINGS. SHALL BE FURNISHED AND INSTALLED WITHOUT ADDITIONAL CHARGE	ITS PROPER AND SAFE ONED OR SHOWN ON THE		ATLANTA, GA 30338 PHONE: (678) 336-5721 WWW.R2TINC.COM
RK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF NA LATEST STANDARD BUILDING CODE, NFPA 820, ANY OTHER LOCALLY ADOF	TIONAL ELECTRICAL CODE, PTED CODES AND LOCAL		
STITUTIONS FOR EQUIPMENT AND MATERIAL SHALL BE SUBMITTED TO THE E D INSTALLATION.	ENGINEER FOR REVIEW		Γ I I I
TOR SHALL COORDINATE ALL WORK WITH ALL OTHER TRADES. IT IS THE I TOR TO VERIFY THE ACTUAL LOCATION OF EQUIPMENT, DUCTWORK, PIPING, "ALLATION ACCORDINGLY. THE EQUIPMENT WIRING SHALL INCLUDE ALL NEC REQUIRED FOR THE PROPER AND SAFE EQUIPMENT OPERATION.	RESPONSIBILITY OF ETC. AND COORDINATED CESSARY CABLES AND		DUNT INT (HED MEN
DUCTORS SHALL BE COPPER #12 AWG MINIMUM CONDUCTOR SIZE FOR PC AWG MINIMUM CONDUCTOR FOR SIGNAL WIRING. THE INSULATION FOR AL SERVICE ENTRANCE CONDUCTORS SHALL BE XHHW. ALL CABLE INSTALLE ATED.	OWER AND LIGHTING WIRING. LL CONDUCTORS SHALL BE ED IN CABLE TRAYS SHALL		LB CC TME TERS AGEN
VIRES SIZES #12 AWG AND #10 AWG SHALL BE SOLID TYPE. ALL OTHER D. CABLES BETWEEN THE VFD AND ASSOCIATED MOTOR SHALL BE SHIELD	SIZES SHALL BE DED POWER VFD RATED		KAL SPAR WAT MAN/ IAN/
OSED CONDUITS SHALL BE PVC COATED RIGID STEEL, UNLESS NOTED OTHE OF 3/4". ALL BURIED CONDUIT SHALL BE PVC—40, MINIMUM OF 1". AI S SHALL HAVE RIGID STEEL ELBOWS.	ERWISE ON THE DRAWINGS, LL UNDERGROUND	LIENT:	DEDE
NGS SHALL BE CAST WITH THREADED HUBS. ALL CONNECTIONS SHALL BE	E COMPRESSION TYPE.	0	
OR AT NO ADDITIONAL CHARGE TO OWNER.	VIDE THE REQUIRED		
TOR SHALL PROVIDE PULL STRING AND IDENTIFICATION LABELS AT EACH CONDUITS.	ONDUIT END FOR ALL		SOA N 8 IGN
IPMENT LOCATED IN THE PRIMARY SEWAGE WETWELL SHALL BE CLASS I, D UIRED MATERIALS AND INSTALLATION SHALL MEET THE LATEST EDITION OF STEWATER STANDARDS AND SPECIFICATIONS FOR LIFT STATIONS.	IVISION 1 RATED. DEKALB COUNTY WATER		TON F TATIC E DES
PLAN DRAWING SYMBOLS			DN N N N
OR CONNECTION			NSI UM IPE
OR STARTER, /IDUAL —— NOT LOCATED IN AN MCC OR SIMILAR GROUP ASSEMBLY BINATION MOTOR STARTER/DISCONNECT /IDUAL —— NOT LOCATED IN AN MCC OR SIMILAR GROUP ASSEMBLY		ROJECT:	КП Р Р 2010 R2
ONNECT SWITCH. DISCONNECT SWITCHES ARE HEAVY DUTY, SINGLE THROW, LOSURE UNLESS OTHERWISE NOTED. MOUNT AT 4'–8" TO CENTER OF DISC	, WITH NEMA 4X CONNECT.	₫.	
ED DISCONNECT, NON-FUSED. VISION FOR CLASS R FUSES.			
D INSTRUMENT CONNECTION			
RT/STOP HAND STATION MOUNTED TO HANDRAIL MA 4X UNLESS OTHERWISE NOTED) /, 20A, 1P TOGGLE SWITCH 2 = 1P TOGGLE SWITCH 2 = 2P TOGGLE SWITCH 3 = 3P TOGGLE SWITCH D = SLIDE DIMMER M = MOTOR RATED S = TOGGLE WITH OCCUF	PANCY SENSOR	CRIP TION	ED FOR CONSTRUCTION
LEX 120V RECEPTACLE, 120V, 20A, 1P. NT 6" ABOVE COUNTER, DESK, OR CABINET. DUPLEX 120V RECEPTACLE, 120V, 20A, 1P. NT 6" ABOVE COUNTER, DESK, OR CABINET. DRAPLEX 120V RECEPTACLE, 120V, 20A, 1P. NT 6" ABOVE COUNTER, DESK, OR CABINET.		C REV DATE DESC	AMP:
PHONE BOX. MOUNT 18" A.F.F., INSTALL A 1/2" CONDUIT FROM BOX TO VIDE PULL CORD FOR FUTURE CONNECTIONS AS REQUIRED.	6" ABOVE CEILING.		ORG
CTION BOX 480V, 3PH WELDING RECEPTACLE WITH INTERLOCKED 60A MA 4X FUSED DISCONNECT SWITCH LINEESS OTHERWISE NOTED)			₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩
GROUNDING SYMBOLS	DeKalb County		THE ZAYCHIE
JND ROD. $3/4$ " x 10'-0". COPPERCLAD (UNLESS OTHERWISE NOTED)	DEVELOPMENT SERVICES	SH	EET TITLE:
UND ROD AND WELL	APPROVED AP 1244223	E	LECT. LEGEND
PRESSION TYPE GROUNDING BOND TO MOTOR CASING OR EQUIPMENT	DATE This Department is not responsible for any errors or omissions by engineers or other design	1551	UED: SEPTEMBER 25, 2020
THERMIC TYPE GROUNDING BOND TO MOTOR CASING OR EQUIPMENT	professionals on design or county code requirements of this project. The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any violation of any of the provisions of applicable codes or of any other ordinance of the jurisdiction. Permits	PRC	DJECT NO. 14–902883
	presuming to give authority to violate or cancel the provisions of applicable codes or any other ordinance of the unsdiction shall not be valid. The issuance of a permit based on construction		KD BY: AZ SIGNED BY: RV
	CONTRACTOR AND A LEAST AND A L	DRA	AWN BY: RV
	EDEC Id-verified during inspection. TEL. (770) 493-8685		E-U1

ONE LINE DIAGRAM NOTES:

- 1. CONTRACTOR SHALL COORDINATE LOCATION OF THE 480/277V TRANSFORMERS WITH GA POWER (LANDON OLIVER: LOLIVER@SOUTHERNCO.COM, 706-814-8143). CONTRACTOR IS RESPONSIBLE FOR PAYING ALL COSTS ASSOCIATED WITH BRINGING 480/277V, 3PH, 4W SERVICE TO THE SITE.
- CONTRACTOR SHALL PROVIDE SURGE PROTECTION DEVICE (SPD) IN NEMA 4X ENCLOSURE. SPD SHALL BE LIEBERT CAT# LM-100-480-Y-A-R-C-X WITH DISCONNECT SWITCH OR APPROVED EQUAL.
- THE CONTRACTOR SHALL FURNISH AND INSTALL THE PACKAGE PUMP STATION CONTROL PANEL IN NEMA 4X SS ENCLOSURE WITH INNER DOOR AND A LOCKABLE HANDLE WHICH INCLUDES MULTISMART CONTROLLER ACCEPTING 4-20mA LEVEL SIGNAL FROM SUBMERSIBLE PRESSURE TRANSDUCER WITH ALL NECESSARY CONTROLS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
- A. HOA SWITCHES, START/STOP PUSH BUTTONS FOR "HAND" MODE. B. SURGE SUPPRESSOR
- C. ELAPSED TIME METERS
- D. 2 kVA, 480/120V CONTROL POWER TRANSFORMER (SIZE AS NECESSARY TO ACCOMMODATE ALL 120V LOADS) E. STRIP HEATER, FAN & THERMOSTAT
- F. TWO REDUCES VOLTAGE SOLID STATE (RVSS), 480V, 3P STARTERS RATED FOR 15HP (PANEL ENCLOSURE SHALL BE SIZED TO ACCOMMODATE FUTURE 20 HP MOTOR CIRCUIT PROTECTOR AND RVSS MOTOR STARTER FOR EACH FUTURE 20HP MOTOR)
- G. MAIN 125A, 480V, 3P THERMAL MAGNETIC CIRCUIT BREAKER (SIZED FOR FUTURE 20HP PUMPS)
- H. TWO (2) 20A, 480V, 3P CIRCUIT BREAKERS FOR JIB CRANE AND GATE OPERATOR I. 20A, 120V, GFCI, WP DUPLEX RECEPTACLE
- J. MOISTURE/TEMPERATURE PROTECTION RELAY FOR EACH PUMP
- K. AUXILIARY DRY CONTACTS (120VAC, 5 AMP RATED) AND SIGNALS: 3.1. WETWELL LEVEL (4–20mA)
- 3.2. PHASE A CURRENT (4–20mA)
- 3.3. PHASE B CURRENT (4–20mA)
- 3.4. PHASE C CURRENT (4–20mA) 480V, 3PH POWER ON AT PCP-1 3.5.
- 3.6. WETWELL HIGH LEVEL ALARM
- 3.7. WETWELL LOW LEVEL ALARM
- 3.8. PUMP 1 COMMON FAULT (MOTOR OVER-TEMP, SEAL FAILURE, OVERLOAD)
- 3.9. PUMP 1 RUNNING 3.10. PUMP 2 COMMON FAULT (MOTOR OVER-TEMP, SEAL FAILURE, OVERLOAD)
- 3.11. PUMP 2 RUNNING
- 3.12. GENERATOR RUNNING STATUS (RETRANSMITTED FROM GEN-1)
- 3.13. GENERATOR FAULT (RETRANSMITTED FROM GEN-1)
- 3.14. ATS EMERGENCY POSITION (RETRANSMITTED FROM ATS-1)
- 3.15. SITE SECURITY (PANIC PUSHBUTTON AT PCP-1)
- 3.16. PHASE LOSS (FROM PCP-1) 3.17. NORMAL POWER LOSS (RETRANSMITTED FROM ATS-1)
- 3.18. CONTROL POWER LOSS (DI) (FROM PCP-1)
- PUMP ALTERNATOR
- M. LIGHTNING ARRESTOR N. MUSHROOM-HEAD E-STOP PUSHBUTTON FOR SITE SECURITY
- 0. UPS SIZED FOR 30 MIN BACKUP TIME P. INDICATING LIGHTS:
- EACH PUMP RUNNING (RED)
- EACH PUMP FAULT (AMBER)
- EACH PUMP STOPPED (GREEN) - HIGH LEVEL (AMBER) FROM HIGH LEVEL FLOAT SWITCH
- ALARM LIGHT AND RESET PUSHBUTTONS FOR HIGH LEVEL
- PHASE MONITOR
- TIME DELAY BETWEEN PUMPS START IN BOTH "HAND" AND "AUTO" MODE INTRINSICALLY SAFE RELAYS FOR ALL DEVICES LOCATED IN THE WET WELL

CONTRACTOR SHALL FURNISH AND INSTALL A CELLULAR BASED SCADA PANEL AND ALL THE REQUIRED ACCESSORIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE TYPES OF CELLULAR SERVICE AVAILABLE IN THE AREA AND SELECT THE APPROPRIATE CELLULAR TRANSCEIVER WHICH WILL PROVIDE THE MOST RELIABLE CONNECTION. THE SCADA SYSTEM COMPONENTS SHALL BE PROVIDED BY TELOG MODEL RS-3330 AND SHALL BE CONNECTED TO THE DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT NETWORK. SEE DEKALB COUNTY STANDARDS FOR ADDITIONAL REQUIREMENTS ON A TELEMETRY UNIT. THE FOLLOWING I/OS SHALL BE PROVIDED:

 4.1. CHNL 01 - WETWELL LEVEL (4-20mA) (AI) 4.2. CHNL 02 - PHASE A CURRENT (AI) 4.3. CHNL 03 - PHASE B CURRENT (AI) 4.4. CHNL 04 - PHASE C CURRENT (AI) 4.5. CHNL 05 - DISCHARGE FLOW (AI) 4.6. CHNL 14 - 480V, 3PH POWER ON (DI) (FRC 4.7. CHNL 15 - GENERATOR FAULT (DI) 4.8. CHNL 16 - GENERATOR RUNNING STATUS (DI 4.9. CHNL 17 - ATS EMERGENCY POSITION (DI) (4.10. CHNL 18 - WETWELL HIGH LEVEL ALARM (DI) 4.11. CHNL 19 - WETWELL LOW LEVEL ALARM (DI) 4.12. CHNL 20 - PUMP 1 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.13. CHNL 21 - PUMP 1 RUNNING (DI) 4.14. CHNL 22 - PUMP 2 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.15. CHNL 23 - PUMP 2 RUNNING (DI) 4.16. CHNL 24 - SITE SECURITY (DI) 4.17. CHNL 25 - PHASE LOSS (DI) 4.18. CHNL 26 - NORMAL POWER LOSS (DI) (FROM 4.19. CHNL 27 - VALVE VAULT FLOAT SWITCH ACTIVA.20. CHNL 28 - CONTROL POWER LOSS (DI) (FROM 4.19. CHNL 27 - VALVE VAULT FLOAT SWITCH ACTIVA.20. CHNL 28 - CONTROL POWER LOSS (DI) (FROM 4.21. CGNL 29 - BACK-UP WETWELL HIGH-HIGH LETTHE SHALL BE PROVER 			
 4.2. CHNL 02 - PHASE A CURRENT (AI) 4.3. CHNL 03 - PHASE B CURRENT (AI) 4.4. CHNL 04 - PHASE C CURRENT (AI) 4.5. CHNL 05 - DISCHARGE FLOW (AI) 4.6. CHNL 14 - 480V, 3PH POWER ON (DI) (FRO 4.7. CHNL 15 - GENERATOR FAULT (DI) 4.8. CHNL 16 - GENERATOR RUNNING STATUS (DI 4.9. CHNL 17 - ATS EMERGENCY POSITION (DI) (4.10. CHNL 18 - WETWELL HIGH LEVEL ALARM (DI) 4.11. CHNL 19 - WETWELL LOW LEVEL ALARM (DI) 4.12. CHNL 20 - PUMP 1 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.13. CHNL 21 - PUMP 1 RUNNING (DI) 4.14. CHNL 22 - PUMP 2 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.15. CHNL 23 - PUMP 2 RUNNING (DI) 4.16. CHNL 24 - SITE SECURITY (DI) 4.17. CHNL 25 - PHASE LOSS (DI) 4.18. CHNL 26 - NORMAL POWER LOSS (DI) (FROM 4.19. CHNL 27 - VALVE VAULT FLOAT SWITCH ACTT 4.20. CHNL 28 - CONTROL POWER LOSS (DI) (FROM 4.21. CGNL 29 - BACK-UP WETWELL HIGH-HIGH LETTHE SHALL BE PROVER 		4.1.	CHNL 01 – WETWELL LEVEL (4–20mA) (AI)
 4.3. CHNL 03 - PHASE B CURRENT (AI) 4.4. CHNL 04 - PHASE C CURRENT (AI) 4.5. CHNL 05 - DISCHARGE FLOW (AI) 4.6. CHNL 14 - 480V, 3PH POWER ON (DI) (FRC 4.7. CHNL 15 - GENERATOR FAULT (DI) 4.8. CHNL 16 - GENERATOR RUNNING STATUS (DI 4.9. CHNL 17 - ATS EMERGENCY POSITION (DI) (4.10. CHNL 18 - WETWELL HIGH LEVEL ALARM (DI) 4.11. CHNL 19 - WETWELL LOW LEVEL ALARM (DI) 4.12. CHNL 20 - PUMP 1 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.13. CHNL 21 - PUMP 1 RUNNING (DI) 4.14. CHNL 22 - PUMP 2 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.15. CHNL 23 - PUMP 2 RUNNING (DI) 4.16. CHNL 24 - SITE SECURITY (DI) 4.17. CHNL 25 - PHASE LOSS (DI) 4.18. CHNL 26 - NORMAL POWER LOSS (DI) (FROM 4.19. CHNL 27 - VALVE VAULT FLOAT SWITCH ACTT 4.20. CHNL 28 - CONTROL POWER LOSS (DI) (FROM 4.21. CGNL 29 - BACK-UP WETWELL HIGH-HIGH L 		4.2.	CHNL 02 – PHASE A CURRENT (AI)
 4.4. CHNL 04 - PHASE C CURRENT (AI) 4.5. CHNL 05 - DISCHARGE FLOW (AI) 4.6. CHNL 14 - 480V, 3PH POWER ON (DI) (FRC 4.7. CHNL 15 - GENERATOR FAULT (DI) 4.8. CHNL 16 - GENERATOR RUNNING STATUS (DI 4.9. CHNL 17 - ATS EMERGENCY POSITION (DI) (4.10. CHNL 18 - WETWELL HIGH LEVEL ALARM (DI) 4.11. CHNL 19 - WETWELL LOW LEVEL ALARM (DI) 4.12. CHNL 20 - PUMP 1 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.13. CHNL 21 - PUMP 1 RUNNING (DI) 4.14. CHNL 22 - PUMP 2 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.15. CHNL 23 - PUMP 2 RUNNING (DI) 4.16. CHNL 24 - SITE SECURITY (DI) 4.17. CHNL 25 - PHASE LOSS (DI) 4.18. CHNL 26 - NORMAL POWER LOSS (DI) (FROI 4.19. CHNL 27 - VALVE VAULT FLOAT SWITCH ACTI' 4.20. CHNL 28 - CONTROL POWER LOSS (DI) (FROI 4.21. CGNL 29 - BACK-UP WETWELL HIGH-HIGH L 		4.3.	CHNL 03 – PHASE B CURRENT (AI)
 4.5. CHNL 05 - DISCHARGE FLOW (AI) 4.6. CHNL 14 - 480V, 3PH POWER ON (DI) (FROM 4.7. CHNL 15 - GENERATOR FAULT (DI) 4.8. CHNL 16 - GENERATOR RUNNING STATUS (DI) 4.9. CHNL 17 - ATS EMERGENCY POSITION (DI) (4.10. CHNL 18 - WETWELL HIGH LEVEL ALARM (DI) 4.11. CHNL 19 - WETWELL LOW LEVEL ALARM (DI) 4.12. CHNL 20 - PUMP 1 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.13. CHNL 21 - PUMP 1 RUNNING (DI) 4.14. CHNL 22 - PUMP 2 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.15. CHNL 23 - PUMP 2 RUNNING (DI) 4.16. CHNL 24 - SITE SECURITY (DI) 4.17. CHNL 25 - PHASE LOSS (DI) 4.18. CHNL 26 - NORMAL POWER LOSS (DI) (FROM 4.19. CHNL 27 - VALVE VAULT FLOAT SWITCH ACTI' 4.20. CHNL 28 - CONTROL POWER LOSS (DI) (FROM 4.21. CGNL 29 - BACK-UP WETWELL HIGH-HIGH L 		4.4.	CHNL 04 – PHASE C CURRENT (AI)
 4.6. CHNL 14 – 480V, 3PH POWER ON (DI) (FRC 4.7. CHNL 15 – GENERATOR FAULT (DI) 4.8. CHNL 16 – GENERATOR RUNNING STATUS (DI 4.9. CHNL 17 – ATS EMERGENCY POSITION (DI) (4.10. CHNL 18 – WETWELL HIGH LEVEL ALARM (DI) 4.11. CHNL 19 – WETWELL LOW LEVEL ALARM (DI) 4.12. CHNL 20 – PUMP 1 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.13. CHNL 21 – PUMP 1 RUNNING (DI) 4.14. CHNL 22 – PUMP 2 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.15. CHNL 23 – PUMP 2 RUNNING (DI) 4.16. CHNL 24 – SITE SECURITY (DI) 4.17. CHNL 25 – PHASE LOSS (DI) 4.18. CHNL 26 – NORMAL POWER LOSS (DI) (FROM 4.19. CHNL 27 – VALVE VAULT FLOAT SWITCH ACTI 4.20. CHNL 28 – CONTROL POWER LOSS (DI) (FROM 4.21. CGNL 29 – BACK–UP WETWELL HIGH–HIGH L 		4.5.	CHNL 05 – DISCHARGE FLOW (AI)
 4.7. CHNL 15 - GENERATOR FAULT (DI) 4.8. CHNL 16 - GENERATOR RUNNING STATUS (DI) 4.9. CHNL 17 - ATS EMERGENCY POSITION (DI) (4.10. CHNL 18 - WETWELL HIGH LEVEL ALARM (DI) 4.11. CHNL 19 - WETWELL LOW LEVEL ALARM (DI) 4.12. CHNL 20 - PUMP 1 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.13. CHNL 21 - PUMP 1 RUNNING (DI) 4.14. CHNL 22 - PUMP 2 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.15. CHNL 23 - PUMP 2 RUNNING (DI) 4.16. CHNL 24 - SITE SECURITY (DI) 4.17. CHNL 25 - PHASE LOSS (DI) 4.18. CHNL 26 - NORMAL POWER LOSS (DI) (FROM 4.19. CHNL 27 - VALVE VAULT FLOAT SWITCH ACTI' 4.20. CHNL 28 - CONTROL POWER LOSS (DI) (FROM 4.21. CGNL 29 - BACK-UP WETWELL HIGH-HIGH L 		4.6.	CHNL 14 - 480V, 3PH POWER ON (DI) (FRO
 4.8. CHNL 16 - GENERATOR RUNNING STATUS (DI 4.9. CHNL 17 - ATS EMERGENCY POSITION (DI) (4.10. CHNL 18 - WETWELL HIGH LEVEL ALARM (DI) 4.11. CHNL 19 - WETWELL LOW LEVEL ALARM (DI) 4.12. CHNL 20 - PUMP 1 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.13. CHNL 21 - PUMP 1 RUNNING (DI) 4.14. CHNL 22 - PUMP 2 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.15. CHNL 23 - PUMP 2 RUNNING (DI) 4.16. CHNL 24 - SITE SECURITY (DI) 4.17. CHNL 25 - PHASE LOSS (DI) 4.18. CHNL 26 - NORMAL POWER LOSS (DI) (FROI 4.19. CHNL 27 - VALVE VAULT FLOAT SWITCH ACTI 4.20. CHNL 28 - CONTROL POWER LOSS (DI) (FROI 4.21. CGNL 29 - BACK-UP WETWELL HIGH-HIGH L 		4.7.	CHNL 15 – GENERATOR FAULT (DI)
 4.9. CHNL 17 - ATS EMERGENCY POSITION (DI) (4.10. CHNL 18 - WETWELL HIGH LEVEL ALARM (DI) 4.11. CHNL 19 - WETWELL LOW LEVEL ALARM (DI) 4.12. CHNL 20 - PUMP 1 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.13. CHNL 21 - PUMP 1 RUNNING (DI) 4.14. CHNL 22 - PUMP 2 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.15. CHNL 23 - PUMP 2 RUNNING (DI) 4.16. CHNL 24 - SITE SECURITY (DI) 4.17. CHNL 25 - PHASE LOSS (DI) 4.18. CHNL 26 - NORMAL POWER LOSS (DI) (FROM 4.19. CHNL 27 - VALVE VAULT FLOAT SWITCH ACTI' 4.20. CHNL 28 - CONTROL POWER LOSS (DI) (FROM 4.21. CGNL 29 - BACK-UP WETWELL HIGH-HIGH L 		4.8.	CHNL 16 - GENERATOR RUNNING STATUS (DI
 4.10. CHNL 18 - WETWELL HIGH LEVEL ALARM (DI) 4.11. CHNL 19 - WETWELL LOW LEVEL ALARM (DI) 4.12. CHNL 20 - PUMP 1 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.13. CHNL 21 - PUMP 1 RUNNING (DI) 4.14. CHNL 22 - PUMP 2 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.15. CHNL 23 - PUMP 2 RUNNING (DI) 4.16. CHNL 24 - SITE SECURITY (DI) 4.17. CHNL 25 - PHASE LOSS (DI) 4.18. CHNL 26 - NORMAL POWER LOSS (DI) (FROM 4.19. CHNL 27 - VALVE VAULT FLOAT SWITCH ACTI' 4.20. CHNL 28 - CONTROL POWER LOSS (DI) (FROM 4.21. CGNL 29 - BACK-UP WETWELL HIGH-HIGH L 		4.9.	CHNL 17 - ATS EMERGENCY POSITION (DI) (
 4.11. CHNL 19 - WETWELL LOW LEVEL ALARM (DI) 4.12. CHNL 20 - PUMP 1 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.13. CHNL 21 - PUMP 1 RUNNING (DI) 4.14. CHNL 22 - PUMP 2 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.15. CHNL 23 - PUMP 2 RUNNING (DI) 4.16. CHNL 24 - SITE SECURITY (DI) 4.17. CHNL 25 - PHASE LOSS (DI) 4.18. CHNL 26 - NORMAL POWER LOSS (DI) (FROI 4.19. CHNL 27 - VALVE VAULT FLOAT SWITCH ACTI' 4.20. CHNL 28 - CONTROL POWER LOSS (DI) (FROI 4.21. CGNL 29 - BACK-UP WETWELL HIGH-HIGH L 		4.10.	CHNL 18 – WETWELL HIGH LEVEL ALARN (DI)
 4.12. CHNL 20 - PUMP 1 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.13. CHNL 21 - PUMP 1 RUNNING (DI) 4.14. CHNL 22 - PUMP 2 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.15. CHNL 23 - PUMP 2 RUNNING (DI) 4.16. CHNL 24 - SITE SECURITY (DI) 4.17. CHNL 25 - PHASE LOSS (DI) 4.18. CHNL 26 - NORMAL POWER LOSS (DI) (FROM 4.19. CHNL 27 - VALVE VAULT FLOAT SWITCH ACTI' 4.20. CHNL 28 - CONTROL POWER LOSS (DI) (FROM 4.21. CGNL 29 - BACK-UP WETWELL HIGH-HIGH L 		4.11.	CHNL 19 - WETWELL LOW LEVEL ALARM (DI)
 FAILURE, OVERLOAD) (DI) 4.13. CHNL 21 – PUMP 1 RUNNING (DI) 4.14. CHNL 22 – PUMP 2 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.15. CHNL 23 – PUMP 2 RUNNING (DI) 4.16. CHNL 24 – SITE SECURITY (DI) 4.17. CHNL 25 – PHASE LOSS (DI) 4.18. CHNL 26 – NORMAL POWER LOSS (DI) (FROM 4.19. CHNL 27 – VALVE VAULT FLOAT SWITCH ACTI' 4.20. CHNL 28 – CONTROL POWER LOSS (DI) (FROM 4.21. CGNL 29 – BACK–UP WETWELL HIGH–HIGH L 		4.12.	CHNL 20 - PUMP 1 COMMON FAULT (MOTOR
 4.13. CHNL 21 - PUMP 1 RUNNING (DI) 4.14. CHNL 22 - PUMP 2 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.15. CHNL 23 - PUMP 2 RUNNING (DI) 4.16. CHNL 24 - SITE SECURITY (DI) 4.17. CHNL 25 - PHASE LOSS (DI) 4.18. CHNL 26 - NORMAL POWER LOSS (DI) (FROI 4.19. CHNL 27 - VALVE VAULT FLOAT SWITCH ACTI 4.20. CHNL 28 - CONTROL POWER LOSS (DI) (FROI 4.21. CGNL 29 - BACK-UP WETWELL HIGH-HIGH L 			FAILURE, OVERLOAD) (DI)
 4.14. CHNL 22 - PUMP 2 COMMON FAULT (MOTOR FAILURE, OVERLOAD) (DI) 4.15. CHNL 23 - PUMP 2 RUNNING (DI) 4.16. CHNL 24 - SITE SECURITY (DI) 4.17. CHNL 25 - PHASE LOSS (DI) 4.18. CHNL 26 - NORMAL POWER LOSS (DI) (FROM 4.19. CHNL 27 - VALVE VAULT FLOAT SWITCH ACTI' 4.20. CHNL 28 - CONTROL POWER LOSS (DI) (FROM 4.21. CGNL 29 - BACK-UP WETWELL HIGH-HIGH L 		4.13.	CHNL 21 – PUMP 1 RUNNING (DI)
FAILURE, OVERLOAD) (DI) 4.15. CHNL 23 – PUMP 2 RUNNING (DI) 4.16. CHNL 24 – SITE SECURITY (DI) 4.17. CHNL 25 – PHASE LOSS (DI) 4.18. CHNL 26 – NORMAL POWER LOSS (DI) (FROM 4.19. CHNL 27 – VALVE VAULT FLOAT SWITCH ACTI 4.20. CHNL 28 – CONTROL POWER LOSS (DI) (FROM 4.21. CGNL 29 – BACK-UP WETWELL HIGH-HIGH L		4.14.	CHNL 22 - PUMP 2 COMMON FAULT (MOTOR
 4.15. CHNL 23 - PUMP 2 RUNNING (DI) 4.16. CHNL 24 - SITE SECURITY (DI) 4.17. CHNL 25 - PHASE LOSS (DI) 4.18. CHNL 26 - NORMAL POWER LOSS (DI) (FROI 4.19. CHNL 27 - VALVE VAULT FLOAT SWITCH ACTI 4.20. CHNL 28 - CONTROL POWER LOSS (DI) (FROI 4.21. CGNL 29 - BACK-UP WETWELL HIGH-HIGH L 			FAILURE, OVERLOAD) (DI)
 4.16. CHNL 24 - SITE SECURITY (DI) 4.17. CHNL 25 - PHASE LOSS (DI) 4.18. CHNL 26 - NORMAL POWER LOSS (DI) (FROI 4.19. CHNL 27 - VALVE VAULT FLOAT SWITCH ACTI' 4.20. CHNL 28 - CONTROL POWER LOSS (DI) (FRO 4.21. CGNL 29 - BACK-UP WETWELL HIGH-HIGH L 		4.15.	CHNL 23 – PUMP 2 RUNNING (DI)
 4.17. CHNL 25 – PHASE LOSS (DI) 4.18. CHNL 26 – NORMAL POWER LOSS (DI) (FROM 4.19. CHNL 27 – VALVE VAULT FLOAT SWITCH ACTI 4.20. CHNL 28 – CONTROL POWER LOSS (DI) (FROM 4.21. CGNL 29 – BACK–UP WETWELL HIGH–HIGH L 		4.16.	CHNL 24 – SITE SECURITY (DI)
 4.18. CHNL 26 – NORMAL POWER LOSS (DI) (FROI 4.19. CHNL 27 – VALVE VAULT FLOAT SWITCH ACTI 4.20. CHNL 28 – CONTROL POWER LOSS (DI) (FRO 4.21. CGNL 29 – BACK–UP WETWELL HIGH–HIGH L THE SUBMERSIBLE PRESSURE TRANSMITTER SHALL BE PROV 		4.17.	CHNL 25 – PHASE LOSS (DI)
 4.19. CHNL 27 – VALVE VAULT FLOAT SWITCH ACTI 4.20. CHNL 28 – CONTROL POWER LOSS (DI) (FRO 4.21. CGNL 29 – BACK–UP WETWELL HIGH–HIGH L THE SUBMERSIBLE PRESSURE TRANSMITTER SHALL BE PROV 		4.18.	CHNL 26 - NORMAL POWER LOSS (DI) (FRO
4.20. CHNL 28 – CONTROL POWER LOSS (DI) (FRC 4.21. CGNL 29 – BACK–UP WETWELL HIGH–HIGH L THE SUBMERSIBLE PRESSURE TRANSMITTER SHALL BE PROV		4.19.	CHNL 27 - VALVE VAULT FLOAT SWITCH ACTI
4.21. CGNL 29 – BACK–UP WETWELL HIGH–HIGH L THE SUBMERSIBLE PRESSURE TRANSMITTER SHALL BE PROV		4.20.	CHNL 28 - CONTROL POWER LOSS (DI) (FRO
THE SUBMERSIBLE PRESSURE TRANSMITTER SHALL BE PROV		4.21.	CGNL 29 - BACK-UP WETWELL HIGH-HIGH L
THE SUBMERSIBLE PRESSURE TRANSMITTER SHALL BE PROV			
THEAD AND CHALL DOOVIDE A OA A AUTOUT TA DUVD A	THE :	SUBMERS	SIBLE PRESSURE TRANSMITTER SHALL BE PROV

5 VENDOR AND SHALL PROVIDE 4-20mA OUTPUT TO PUMP CONTROL PANEL. THE TRANSDUCER SHALL BE RATED FOR CLASS I, DIVISION 1 AREA. THE CABLES PROVIDED WITH THE SUBMERSIBLE PRESSURE TRANSDUCER SHALL BE LONG ENOUGH TO REACH THE PUMP CONTROL PANEL WITHOUT SPLICING.

MISCELLANEOUS LOADS – STEP 2 ONE (1) 20HP PUMP ON RVSS STARTER CONTACTS: - GENERATOR RUNNING STATUS – GENERATOR FAULT - TRANSFER SWITCH EMERGENCY POSITION - NORMAL POWER LOSS SLABS. 1 DIVISION 1 RATED. ALL CABLE/CONDUIT EXITING THE WETWELL. SCHEDULE IN DETAIL 2 OF SHEET E-03. CABLE EQUAL). AND CHEMICAL-RESISTANT ENCLOSURE. CLASS I, DIVISION 2 RATED. (FROM PCP-1) (DI) I, DIVISION 1 RATED. DI) (FROM ATS) IOTOR OVER-TEMP, SEAL NOTOR OVER-TEMP, SEAL FOLLOWING FEATURES: – ANTI-TAILGATING FEATURE PORTS FOR PLUG-IN LOOP DETECTORS – FAIL–SAFE RELEASE (FROM ATS) BUILT-IN RESET SWITCH ACTIVATED (DI) - BUILT-IN POWER ON/OFF SWITCH (FROM PCP-1) IGH LEVEL ALARM (DI) PROVIDED BY PUMP

6. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE 60kW/75kVA 480/277V, 3 PHASE STANDBY NATURAL GAS GENERATOR SET INCLUDING GENERATOR, GENERATOR CONTROL PANEL, MAIN CIRCUIT BREAKER, GENERATOR PAD. AND A NEMA 4X STAINLESS STEEL AUTOMATIC TRANSFER SWITCH. GENERATOR IS SIZED FOR FUTURE 20HP PUMPS. THE CONTRACTOR SHALL SUPPLY A LETTER OF GUARANTEE THAT THE SUBMITTED GENERATOR IS RATED TO – STEP 1 ONE (1) 20HP PUMP ON RVSS STARTER AND 10 KVA OF IF A LARGER GENERATOR IS REQUIRED TO RUN THE SPECIFIED EQUIPMENT. CONTRACTOR SHALL INCLUDE THE REQUIRED GENERATOR SIZE AND ADJUST THE ASSOCIATED CABLES/CONDUITS AS REQUIRED. CONTRACTOR SHALL VERIFY BREAKER SIZE AND ADJUST CABLE SIZE PER NEC 310.16 AS REQUIRED. THE GENERATOR CONTROL PANEL SHALL HAVE THE FOLLOWING 120V, 10A RATED DRY WWW.R2TINC.COM THE ATS SHALL HAVE THE FOLLOWING 120V, 10A RATED DRY CONTACTS: Ĺ 7. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE GROUND GRID \mathbf{O} AROUND THE UTILITY RACK, GENERATOR AND WET WELL. CONTRACTOR SHALL MAKE CONNECTIONS TO THE MAIN BREAKER, METER BASE, PUMP CONTROL ΖH MENT MENT RSHE PANEL, ATS ENCLOSURE, GENERATOR ENCLOSURE, UTILITY RACK CONCRETE FOOTING, FENCE. THE GRID SHALL CONSIST OF #4 AWG BARE COPPER GROUND CONDUCTOR, 4-3/4" DIAMETER 10' GROUND RODS AND CADWELD CONNECTIONS TO GROUND RODS. THE GROUND WIRE SHALL ALSO BE POURED INTO THE TOP SLAB OF THE WET WELL AND THE VALVE AND METER VAULT AT THE FOUNDRY WITH A TWELVE (12) INCH STUB-OUT FOR FIELD CONNECTION. UNDER NO CIRCUMSTANCES SHALL WIRE BE ALLOWED TO RUN ACROSS THE OUTSIDE TOP H B \mathbf{X} 8. THE LEVEL FLOAT SWITCHES (LOW AND HIGH) SHALL BE PROVIDED BY PUMP VENDOR AS A BACK-UP TO SUBMERSIBLE PRESSURE TRANSDUCER. LOW LEVEL ΓN ' FLOAT SHALL PROVIDE FAIL SAFE OPERATION. THE CONTRACTOR SHALL WIRE HIGH LEVEL FLOAT TO ACTIVATE ALARM HORN AND STROBE. THE CABLES PROVIDED ΞĤ WITH THE FLOATS SHALL BE LONG ENOUGH TO REACH THE PUMP CONTROL DD PANEL WITHOUT SPLICING. LEVEL FLOATS SHALL BE NON-MERCURY TYPE, CLASS 9. THE CONTRACTOR SHALL INSTALL KELLUM GRIPS AT PUMP CONTROL PANEL FOR 10. CONTRACTOR SHALL PROVIDE AND INSTALL A COMBINATION TRANSFORMER/PANELBOARD IN A STAINLESS STEEL ENCLOSURE WITH A MINIMUM ₹ & Z NEMA 3R RATING. TRANSFORMER SHALL BE 10 KVA, 480-240/120V, 1PH, 3W. PANELBOARD SHALL HAVE CIRCUIT BREAKERS AS SHOWN IN PANELBOARD RO/ ON SIG 11. CONTRACTOR SHALL FURNISH AND INSTALL A NEW MAGNETIC FLOW TRANSMITTER ATI(DE AND SENSOR DESIGNED AND RATED FOR CLASS I, DIVISION 2. MAGNETIC FLOW TRANSMITTER SHALL PROVIDE 4-20mA SIGNAL TO THE SCADA PANEL. TUBE AND Ō ELECTRODE MATERIAL SHALL BE STAINLESS STEEL. FLOW SENSOR/ELEMENT ⊢⊢ш ENCLOSURE SHALL BE NEMA 6P RATED. FLOW TRANSMITTER ENCLOSURE SHALL S N D BE NEMA 4X STAINLESS STEEL. MAGMETER SENSOR/TRANSMITTER SHALL BE SIN MP ELI ENDRESS HAUSER OR ENGINEER APPROVED EQUAL. 12. CONTRACTOR SHALL FURNISH AND INSTALL A SEPARATE 2" CONDUIT FOR PUN MOISTURE/TEMPERATURE SIGNAL CABLES IF IT IS SEPARATE FROM THE POWER $\overline{\mathbf{V}}$ 13. USE SEAL-OFF FITTINGS FOR ALL CONDUITS LEAVING THE WETWELL TO PREVENT METHANE GAS AND MOISTURE ENTERING INTO CONTROL PANEL. USE NON-HARDENING SEAL COMPOUND (IDEAL CAT. NO 31-601 OR APPROVED 14. THE RECEPTACLE SHALL BE PROVIDED IN INDUSTRIAL, NEMA 4X RATED, WEATHER 15. CONTRACTOR SHALL PROVIDE A BACK-UP HIGH LEVEL FLOAT SWITCH WITH CONTACTS RATED FOR DC. THIS FLOAT SCADA INPUT SHALL BE POWERED BY SCADA PANEL BATTERY AND SHALL BE OPERABLE DURING POWER LOSS. THE CONTRACTOR SHALL WIRE LEVEL FLOAT TO ACTIVATE ALARM IN SCADA PANEL. THE CABLE PROVIDED WITH THE FLOAT SHALL OF SUFFICIENT LENGTH TO REACH THE SCADA PANEL WITHOUT SPLICING. FLOAT SHALL BE NON-MERCURY TYPE, 16. CONTRACTOR SHALL PROVIDE A BACK-UP HIGH LEVEL FLOAT SWITCH WITH CONTACTS RATED FOR DC. THIS FLOAT SCADA INPUT SHALL BE POWERED BY SCADA PANEL BATTERY AND SHALL BE OPERABLE DURING POWER LOSS. THE CABLE PROVIDED WITH THE FLOAT SHALL OF SUFFICIENT LENGTH TO REACH THE SCADA PANEL WITHOUT SPLICING. FLOAT SHALL BE NON-MERCURY TYPE, CLASS 17. CONTRACTOR SHALL PROVIDE AND INSTALL ELECTRIC GATE OPERATOR FOR ENTRANCE/EXIT GATE. THE ENTRANCE SHALL BE INITIATED BY A USE OF KEYPAD OR REMOTE CONTROL. TO EXIT THE PUMP STATION, THE GATE SHALL AUTOMATICALLY OPEN WHEN A VEHICLE IS WITHIN THE GATE PROXIMITY ON THE PUMP STATION SIDE. AS A MINIMUM, THE GATE OPERATOR SHALL HAVE THE - SELF ADJUSTING, NO MAINTENANCE MAGNETIC LIMITS - MOTOR SHALL BE SIZED FOR THE SELECTED GATE STAMP: ORG 18. CONTRACTOR SHALL INCLUDE ALL THE REQUIRED POWER AND CONTROL CABLES AND CONDUITS FOR THE SELECTED GATE SYSTEM AS REQUIRED BY VENDOR. **DeKalb** County Q GEORGIA HEET TITLE: DEVELOPMENT SERVICES APPROVED ONE LINE 1244223 AP DIAGRAM DATE_____01/11/21 This Department is not responsible for any errors or SUED: SEPTEMBER 25, 2020 omissions by engineers or other design professionals on design or county code requirements of this project ROJECT NO. 14-902883 The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any N.T.S. violation of any of the provisions of applicable codes or of any other ordinance of the jurisdiction. Permits presuming to give authority to violate or cancel the HKD BY: AZ

jobsite at all times and shall not be modified or altered without authorization from DeKalb County Development Services.

Щ

09/24/2020

ESIGNED BY: RV

RAWN BY: RV

E-02

- 6. CONTRACTOR SHALL COORDINATE AND PAY ALL ASSOCIATED FEES TO THE COUNTY'S SELECTED NATURAL GAS SERVICE PROVIDER FOR CONNECTING NATURAL GAS LINE TO THE GENERATOR. CONTRACTOR SHALL COORDINATE THE EXACT NATURAL GAS PIPE ROUTING IN THE FIELD. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL THE REQUIRED NATURAL GAS SERVICE EQUIPMENT INCLUDING BUT NOT LIMITED TO THE METER, PRESSURE REDUCING VALVE, REGULATOR, ETC.
- 7. CONTRACTOR SHALL INSTALL A 20A, 120V, 30mA GFCI RECEPTACLE FOR BACKFLOW PREVENTER HEAT TRACE. CONTRACTOR SHALL POST-MOUNT THE RECEPTACLE NEAR THE BACKFLOW PREVENTER IN A WEATHERPROOF ENCLOSURE.

- CRANE IN NEMA 4X SS ENCLOSURE MOUNTED ON THE UNISTRUT RACK. CONTRACTOR SHALL COORDINATE LOCATION OF THE UNISTRUT RACK WITH DISCONNECT IN THE FIELD TO PROVIDE ADEQUATE CLEARANCE FOR PROPER JIB CRANE OPERATION. SEE DETAIL 1 ON DRAWING E-04 FOR UNISTRUT RACK INSTALLATION DETAIL.
- 15. CONTRACTOR SHALL PROVIDE AND INSTALL UNDERGROUND PULL BOX SIZED IN ACCORDANCE TO NEC ARTICLE 314.28. SEE DWG. E-05 DETAIL 6 FOR UNDERGROUND PULL BOX INSTALLATION DETAILS.

PANEL MPZ-A SCHEDULE

- 007 - 007	OWER)	F	1841 PEI UN ATLANTA PHONE: (61 WWW.R2	ELER RD. IT C ., GA 30338 78) 336-572 TINC.COM	21
	UND CONDUIT DETAIL	CLIENT:	DEFARTMENT OF	WATERSHED MANAGEMENT	DEKALB COUNTY, GEORGIA
		PROJECT:			© 2010 R2T INC.
		S REV DATE DESCRIPTION	MP: AP: AP: AP: AP: AP: AP: AP: A	R G TEREY 22613	
TRIIP AMPS DESCRIPTION CKT NO 20 SCADA PANEL RTU-A 2 20 FLOW INDICATING TRANSMITTER FIT-A 4 20 CONVENIENCE RECEPTACLE 6 20* BACKFLOW PREVENTER HEAT TRACE 8 20 SPARE 10 20 SPARE 12	DEVELOPMENT SERVICES DEVELOPMENT SERVICES	SHEE SHEE ISSUE PROJE SCALE CHKD DESIG DRAW	ET TITLE: ELECTF OWER D: SEPTEMB CCT NO. 14 CCT NO. 14	ER 25, 202 -902883 SHOWN	20

jobsite at all times and shall not be modified or altered without authorization from DeKalb County Development Services.

GROUND WELL INSTALLATION

jobsite at all times and shall not be modified or altered without authorization from DeKalb County

This Department is not responsible for any errors or omissions by engineers or other design professionals on design or county code

The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any

violation of any of the provisions of applicable codes or of any other ordinance of the jurisdiction. Permits presuming to give authority to violate or cancel the

provisions of applicable codes or any other

provisions of applicable codes or any other ordinance of the principle codes or any other issuance of a permit based on construction iscuments LIGENSE INO shaftED96457 the code officia EXPIRATIONE DATE: 06/30/2022 umbrig, Mat2orcHATTAHOOCHEESTRACE umbrig, Mat2orcHATTAHOOCHEESTRACE

EDEC^{Id.} verified during inspection TEL. (770) 493-8685

Development Services.

DATE 01/11/21

requirements of this project.

NOTES:

- REVIEW DIMENSIONS OF GEN. SET, INCLUDING W.P. HOUSING, TO DETERMINE ACTUAL DIMENSIONS OF GEN. PAD. 1 PAD SHALL BE INSTALLED AS RECOMMENDED BY THE GENERATOR MANUFACTURER. SEE DETAIL P-008 ON DRAWING C-06 FOR ADDITIONAL INFORMATION.
- 2. PAD SHALL BE 1'-0" LARGER ON ALL SIDES THAN THE GENERATOR BASE AND ENCLOSURE.
- 3. VERIFY CONDUIT PENETRATIONS WITH GENERATOR MANUFACTURER.
- 4. PROVIDE FOUR (4) 10'X3/8" COPPER CLAD STEEL GROUND RODS AS SHOWN WITH #4 BARE COPPER GROUND WIRE AROUND THE GENERATOR PAD. CONNECT GROUND WIRE TO THE GENERATOR ENCLOSURE.
- 5. EXACT GENERATOR PAD SIZE SHALL BE DETERMINED BY THE GENERATOR MANUFACTURER'S SHOP DRAWING PRIOR TO INSTALLATION.
- 6. GENERATOR HOUSING SHALL BE GROUNDED, NOT THE NEUTRAL.

<u>NOTES:</u>

1. POWER SUPPLY TO MAGNETIC METER PRIMARY DEVICE & TRANSMITTER TO BE FROM SAME SOURCE WITH RESPECT TO VOLTAGE, FREQUENCY AND PHASE 2. INSTALLATION OF METERS SHALL BE AS PER MANUFACTURER RECOMMENDATIONS

MAGNETIC FLOW SENSOR/TRANSMITTER INSTALLATION DETAIL

1. PULL BOX TO BE MADE WITH PRECAST POLYMER CONCRETE FIBERGLASS REINFORCED, STACKABLE WITH SELF-ALIGNING, REPLACEABLE EZ-NUT. 2. CONTRACTOR SHALL SIZE THE PULLBOXES BASED ON THE NUMBER OF CONDUITS. USE MANHOLES WHERE PULLBOX WIDTH/HEIGHT IS NOT SUFFICIENT TO ACCEPT ALL ENTERING/EXITING CONDUITS.

UNDERGROUND PULL BOX DETAIL

NOTES OF TRAFFIC AREAS.

PROCESS PIPING.

UNISTRUT INSTALLATION DETAL

1. ALL SERVICE ENTRANCE DUCT BANKS SHALL BE CONCRETE ENCASED. ALL DUCTBANKS CROSSING ROADS OR HEAVY TRAFFIC AREAS SHALL BE REINFORCED WITHIN 5 (FIVE) FEET

2. CONTRACTOR SHALL FIELD COORDINATE EXACT DUCTBANK ROUTING WITH

NONREINFORCED DUCTBANK DETAIL

	A PH V		I PER	2 2 2 2 2 2 2 2 2 2 1 1 2 2 1 1		AP	3 21	
CLIENT:	DEVALD COUNTV	DENALD COUNTI	DEPARTMENT OF		WALEKJIEU	MANAGEMENT	DEKALB COLNEX GEODELA	
PROJECT:				PUMP STATION &				© 2010 R21 INC.
C REV DATE DESCRIPTION	S 0 9/25/20 ISSUED FOR CONSTRUCTION							
SH ISS PRC SC/				R 226 226 226 227 226 2 2 2 2 2 2 2 2 2 2 2 2 2	G P C 20 20 20 20 20 20 20 20 20 20		20	
DES DR/	SIGNE	ED BY:	BY: R	v v				

E-05

jobsite at all times and shall not be modified or altered without authorization from DeKalb County Development Services.

DeKalb County

DEVELOPMENT SERVICES

APPROVED

This Department is not responsible for any errors or

omissions by engineers or other design professionals on design or county code

The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any

1244223

_____ DATE_______01/11/21

requirements of this project.

D

AP

		PROCESS LINES	2	VALVE	SYMBOL	S	PIPING AND	TUBING	MATERIALS
			PROCESS FLOW LINE		_	ANGLE	ABS	_	ACRYLONTRILE BUTADIENE ST TRUSS PIPE
				\bigcirc	-	BALL	ΔΙΜ		
		Э	OVERFLOW LINE		_	BUTTERFLY		_	ALUMINUM REINFORCED PLAS
			BLOWER AIR LINE		_	CHECK	BI	_	BLACK IRON PIPF
			BACKWASH LINE		_	DIAPHRAGM	BPT	_	BRAIDED PLASTIC TUBING-PV
			SAMPLE LINE	\sim	_	GATE	CI	_	CAST IRON PIPE
							CISP	_	CAST IRON SOIL PIPE
()	AVERAGE FLOW	CHEMICAL INJECTION POINT	$\succ \!$	_	GLUBE	СМСР	_	CORRUGATED METAL CULVERT
(r	י ו	PEAK FLOW		ıТı	_	KNIFE	СМН	_	CHEMICAL HOSE
L ABBREVI	ר IATIONS				_	NEEDLE	СМР	_	CORRUGATED METAL PIPE
A TO C	_	AIR TO CLOSE				DIVIDU	COP	_	COPPER PIPE
Α ΤΟ Ο	_	AIR TO OPEN		\bowtie	-	PINCH	CPVC	_	CHLORINATED POLYVINYL CHL
AVG	_	AVERAGE		\bowtie	_	PLUG	CS	_	CARBON STEEL PIPE
B/EL	_	BOITOM ELEVAL	lion	\bowtie	_	PRESSURE REDUCING	DI	-	DUCTILE CAST IRON PIPE
	-						ERP	_	EPOXY RESIN PIPE
CFM	_		F MINUTE	× ×			FRP	_	FIBERGLASS REINFORCED PLA
CW	_	CITY WATER (P	CTABLE)	→ <u>×</u>	_		GS	-	GALVANIZED STEEL PIPE
DIA	_	DIAMETER					HOSE	-	FLEXIBLE HOSE
DWG	_	DRAWING		$\land \downarrow$			HSI	-	HIGH SILICON IRON PIPE
EL	_	ELEVATION			_	BACK PRESSURE VALVE	KLS	-	PVDF LINED STEEL PIPE (KYI
 F.C.	_	FAIL CLOSED				00115575	KYN	-	PVDF (KYNAR TYPICAL)
F.O.	_	FAIL OPFN		\bowtie	-	SQUEEZE	MI	-	CARBON STEEL PIPE W/MALL
FRI	_	FILTER\REGULA		\sim	_	THRFF WAY	NEO	-	NEOPRENE HOSE
FTR	_	FAIL TO RESPO	ND OR FAIL TO RUN	\square	_		NI	-	NICKEL ALLOY PIPE
GAI	_	GALLONS		\square	_	FOUR WAY	NLS	-	NEOPRENE LINED STEEL PIPE
GPD	_	GALLONS PER	DAY				PEP	-	POLYETHYLENE PIPE
GPH	_	GALLONS PER	HOUR	×			PETB	-	POLYETHYLENE TUBING
GPM	_	GALLONS PER	MINUTE		-	VACUUM BREAKER	PLS	-	POLYPROPYLENE LINED STEEL
HB	_	HOSE BIB				AIR RELEASE	POP	-	POLYPROPYLENE PIPE
HG	_	INCHES OF ME	RCURY		-		PRP	-	PHENOLIC RESIN PIPE
HI	_	HIGH		\bowtie	-	HOSE BIBB	PVC	-	POLYVINYL CHLORIDE PIPE
HOA	_	HAND/OFF/AUT	0		_	INTEGRAI	PVC HOSE	_	POLYVINYL CHLORIDE HOSE
HP	-	HORSEPOWER				BLOCK & BLEED	PVDF	-	POLYVINYLIDENE FLUORIDE PI
IA	-	INSTRUMENT AI	R	\square	-	RUPTURE DISK	PW	-	POTABLE WATER
ID	-	INSIDE DIAMETE	R		_	MUD VALVE	RBR	-	RUBBER HOSE
INV	-	INVERT					RCCP	-	REINFORCED CONCRETE CULV
LO	-	LOW			-	BACKFLOW PREVENTER	RCP	-	REINFORCED CONCRETE PIPE
MH	-	MANHOLE		\square			SAR	-	SARAN TUBING
MV MW	_	MODULATING VA MANWAY	ALVE	\bigcirc	-	SURGE ANTICIPATUR VALVE	SLH	-	SLUDGE HOSE
N.C.	_	NORMALLY CLO	SED				SLS	-	SARAN LINED STEEL PIPE
N.O.	_	NORMALLY OPE	N	X	-	SLIDE GATE	SS	-	STAINLESS STEEL PIPE OR TO
OAL	_	OVERALL LENG	TH					-	TEFLON TUBING
0.D.	-	OUTSIDE DIAME	TER	INSTRUMENTATIO	<u>n and r</u>	<u>ELATED_ITEMS</u>		-	TITANIUM ALLOY PIPE
PA	-	PLANT AIR				CAPILLARY TUBING	ILS	-	TEFLON LINED STEEL PIPE
PSIG	-	POUNDS PER S	SQUARE INCH – GAUGE				IIR	_	
	-						IIG	_	
RPM	_					– HYDRAULIC			ACTUATURS
SCEM	_	STANDARD CUB	RIC FEFT PER MINUTE	<u></u>	<u>,, ,, ,, ,</u>	– PNEUMATIC			CYLINDER – CYLINDER
SCH	_	SCHEDULE			, ,, ,,				
SG	_	SPECIFIC GRAVI	ITY	ooo	_•_•_	– DATA LINK			DIAPHRAGM-SPRIM
SP	_	SETPOINT			\sim	– FLUME			
SSH	_	STRAIGHT SIDE	HFIGHT		\sim			(– ELECTRO HYDRAU
STD	_	STANDARD			MAG	– MAGNETIC FLOW METER			
SW	_	SFAL WATER			FI	– ROTAMETER		/	
SWD	_	SIDE WATER DE	EPTH					(•)
TDH	_	TOTAL DYNAMIC	: HEAD(FT OF FLUID)		\sim	- SUNIC FLUW METER			- ELECTRO PNEUMA
T/EL	_	TOP ELEVATION			8	- TURBINE FLOW METER			
TYP	_	TYPICAL				DENSITY			6
VAC	_	VACUUM				JEROTT			Ϋ́ – SOLENOID
VSD	_	VARIABLE SPEE	D DRIVE			– WEIR			ዣ
VTP	_	VERTICAL_TURB	INE PUMP		\bigcirc	- TURBIDITY			+ _ POSITIONER
WC		WATER COLUMN	J						ب المراجع
WD	_	WATER DEDTH	,			– ANNUBAR			
wi	-	WATER IEVEI				– ORIFICE PLATF			
₩L \\\\/	-	WARKING VALU	ME (DOES NOT		'I'				MODULI ATING VAL
	-	INCLUDE FREEE	BOARD OR HEEL)		8	– POSITIVE DISPLACEMENT	METER		
WSF	-	WAIER STORAG			6	– SAMPLE POINT			
WTP	-	WAIER TREATME	ENI PLANI		~				

												FIRST L
	<u>CABLE TA</u>	<u>GS</u>									PROCESS VARIABLE	
TYRENE	$\langle \nabla \rangle$	_	CABLE SUPPLIED BY VENDOR							A	ANALYSIS	
										В	BURNER, COMBUSTIC	N
STIC PIPE	PIPING AC	CESSORIES	2							С	USER'S CHOICE	
	[]	_	DIAPHRAGM SEAL	l¦l	-	ORI	FICE PLA	ATE		D	USER'S CHOICE	
VC											VOLIAGE	
		-	EXPANSION JOINT	\bigcirc	_	SIG	HT FLOW	INDICATOR		G	USER'S CHOICE	
				Η	_	STR	RAINER			Н	HAND	
RI PIPE	11	-	LANGED CONNECTION							I	CURRENT (ELECTRIC	CAL)
	-~~-	-	FLEXIBLE HOSE	I I	-	UNI	ON			J	POWER	_
				ф.	_	AIR	FILTER			K	TIME, TIME SCHEDUL	E
LORIDE PIPE	E	-	HOSE CONNECTION	Đ							USER'S CHOICE	
	\wedge	٦		T	_	AIR	LUBRIC	ATOR		N	USER'S CHOICE	
		5 -	INSULATION	Ξ						0	USER'S CHOICE	
		`		ষ	-	AIR	REGULA	TOR		Р	PRESSURE, VACUUM	
ASTIC PIPE		<u>}_</u> -	INSULATED PIPE WITH ELECTRIC HEAT TRACE	Æ		CON	MR AIR	FII TFR/		Q	QUANTITY	
		<i>u</i> —		ড	_	REG	GULATOR	W/GAUGE		R	RADIATION	
		2 -	INSULATED PIPE WITH		_	FLO)W ORIFI	CE		Т	TEMPERATURE	
YNAR LINED TYPICAL)		<u></u>	SILAWI HLAI HAOL							U	MULTIVARIABLE	
		_	PIPE TO TUBING ADAPTER	(\mathcal{A})	_	SIG	HT FLOW	STRAINER		V	VIBRATION, MECH. A	NALYSIS
LEABLE IRON FITTINGS				(\mathcal{A})		0.01				W	WEIGHT, FORCE	
		_	PULSATION DAMPENER	Ŗ						X	STATUS OR MODE	
	Ξ				-	SPE	ECTACLE	BLIND		Y 7	EVENI, STATE OR PI	
έ.	ф	_	QUICK DISCONNECT								THE BASED ON ISA ST	
	4			₽ III	_	SPF	FCTACI F	BLIND		LEG	LIND BASED UN ISA STI	ANDARD 5 5.
EL PIPE	\square	-	CONCENTRIC REDUCER	CLOSE		0,1						
		_	ECCENTRIC REDUCER	0		PIG		HON			MENT TAC NUMBERS	
					_	110				<u>INSTROI</u>	MENT TAG NOMBENS	
	R	_	RUPTURE DISK	КН		CTE				TIC 1	03 – INSTRUMEN	TATION IDENTIF
				\bigcup	_	511	VAIINEIN			10	03 – LOOP NUM	BER
PIPE	PUMPS AN	<u>ID EQUIPM</u>	<u>ENTS</u>	-						TIC	– FUNCTIONA	_ IDENTIFICATIO
			MIXER							NOTE: H	HYPHENS ARE OPTIONAL	AS SEPARAT
VERT PIPE					(ЪЪ		PUMP, DIAPHRAGM				
Ε		MECHA				\sim				<u>ELECTRI</u>	CAL AND RELATED ITEN	<u>IS</u>
	ىلى	CENIR	IFUGAL PUMP			$\left\{ 8\right\}$		PUMP, GEAR		ß	s – selec	TOR SWITCHES
	S	SAMPL	E PUMP							<u> </u>		
		RI OWF	R					PUMP, METERING				IL INLQUING
TUBING		DLOWL			-	<u> </u>					EM – EMERG	ENCY POWER
	U				F	\sim		FUMF, FRUGRESSING CA	\VIII		(I) – INTERL	.OCK
		PUMP.	ROTARY LOBE			Г				、	~ /	
		,						PUMP, VERTICAL		ĺ	R PILOT	
D		חעווס						TURBINE		ſ	XX XX -	EQUIPMENT
		TURBIN	IE			\square				/		REFERENCE
	MOTOR				ہے	-						
					\perp	\square)	PUMP, SUBMERSIBLE			PRIMARY	
ING	\bigcirc	HOSE	PUMP		•	•			INSTRUM	<u>neni</u> Ng	NORMALLY	FIELD
	\bigcirc				Г	DP		PUMP, DIESEL		<u>/LJ</u>	ACCESSIBLE TO OPERATOR	MOUNI
JLIC	\bigcirc	AIR CC	MPRESSOR		L						*	
									DISCRE	TE		
	<u>LIN</u>	NE NUMBE	R IDENTIFICATION						INSTRUME	ENTS		
ATIC	1"-	– PA– CS										
	ł	1										
			MATERIAL CLAS						SHARED DI	SPLAY, NTROL		
			FLOW STREAM	INDENTIFICAT	ION							
		NE CONTIN	UATIONS									
	Г								СОМРИТ	FER		
				INDICATÉS FROM BATT	a LIN ERY	IL GOI LIMITS	ING IO (CONTR	DR COMING ACT LIMITS)	FUNCTI	ON		
			$\cdot \qquad _{PID_{5}} _{A}$				ON OF I	LINE IS ON WING NUMBED				
LVE ACTUATOR			. 2	IN ZONE A	ייטבּג 2	JUSA	¬wi∟ υκΑ	MING NUMDER	LOGIC CON	NTROL		
	_			INDICATES	CONT	INUATI	ON OF /	A _				
ALVE ACTUATUR				SIGNAL IS	ON S	SHEET	NUMBER	2 5				

ISA INSTRUMENT IDENTIFICATION TABLE FIRST LETTER SUCCEEDING LETTERS READOUT OR COMPUTER FUNCTION MODIFIER (IF NEEDED) MODIFIER (IF NEEDED) ALARM USER'S CHOICE USER'S CHOICE CONTROL DIFFERENTIAL RIVER TO TAP SENSOR (PRIMARY ELEMENT) RATIO (FRACTION) GLASS, VIEWING DEVICE 1841 PEELER RD. UNIT C HIGH ATLANTA, GA 30338 INDICATE PHONE: (678) 336-5721 WWW.R2TINC.COM SCAN TIME RATE OF CHANGE CONTROL STATION LIGHT LOW MIDDLE, INTERMEDIATE MOMENTARY LLB COUNTY RTMENT OF TERSHED NAGEMENT USER'S CHOICE USER'S CHOICE ORIFICE (RESTRICTION) POINT (TEST CONNECTION) INTEGRATE, TOTALIZE RECORD SAFETY SWITCH TRANSMIT MULTIFUNCTION MULTIFUNCTION VALVE, DAMPER, LOUVER K WELL X-AXIS DEK DEP. Y-AXIS RELAY, COMPUTE, CONVERT Z-AXIS DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT S 5.1 <u>EQUIPMENT / VALVE TAG</u> ROAD ON & SIGN \square – CONCENTRIC REDUCER P- 6 15- 1A DENTIFICATION OR TAG NUMBER - EQUIPMENT NO. KENSINGTON F PUMP STATIC PIPELINE DES FICATION NUMBER DENOTES MULTIPLE DEVICES USED IN IDENTICAL DUPLICATE SYSTEMS. PARATORS LETTER DISTIGUISHES MULTIPLE SIMILAR DEVICES IN THE SAME INSTRUMENT LOOP. -LOOP NO. TCHES - PROCESS I.D. QUENCY DRIVE - EQUIPMENT / VALVE IDENTIFICATION <u>I/O_SIGNALS:</u> EQUIPMENT FUNCTIONAL IDENTIFICATION (E) – ETHERNET (CAT6) DISCRETE INPUT BLOWER MECHANICAL EQUIPMENT М PUMP DISCRETE OUTPUT PULSATION DAMPENER PD COLOR STR STRAINER AI PMENT – ANALOG INPUT TANK ΤK RENCE СС CALIBRATION COLUMN ÂÒ INJECTION QUILL ASSEMBLY – ANALOG OUTPUT IQ EDUCTOR ED AUXILIARY AUXILIARY INSTRUMENT PROVIDED * LOCATION LOCATION BY EQUIPMENT VENDOR FIELD NORMALLY NORMALLY MOUNTED ACCESSIBLE TO INACCESSIBLE TO OPERATOR OPERATOR VENDOR SUPPLIED CONTROL PANEL Ř INSTRUMENTS $\overline{}$ 20 ======= – LEVEL FLOAT SWITCH \bigtriangledown – ULTRASONIC LEVEL SENSOR STAMP: $\left\langle \begin{array}{c} \cdot \\ \cdot \end{array} \right\rangle$ O R RADAR LEVEL SENSOR _ \square **⊭**===⇒ PROFESSE SUBMERSIBLE PRESSURE 白 _ TRANSDUCER DeKalb County HEET TITLE: DEVELOPMENT SERVICES APPROVED P&ID AP ______ LEGEND DATE 01/11/21 This Department is not responsible for any errors or omissions by engineers or other design professionals on design or county code ISSUED: SEPTEMBER 25, 2020 requirements of this project. PROJECT NO. 14-902883 The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any SCALE: N.T.S violation of any of the provisions of applicable codes or of any other ordinance of the jurisdiction. Permits presuming to give authority to violate or cancel the CHKD BY: AZ provisions of applicable codes or any other provisions of applicable codes or any other ordinance of the infisicition shall not be valid. The issuance of a permit based on construction the cuments-LiQEINSEdNO shall 55096457 the code official XPIRAITION: DATE: 6/30/2022 Unit of the construction DESIGNED BY: RV RAWN BY: RV **I-01**

KENSINGTON ROAD PUMP STATION

Image: Non-Weight Schwarz (Stresson) River to tap Nit c 1841 PEELER RD. UNIT C ATLANTA, GA 30338 PHONE: (678) 336-5721 WWW.R2TINC.COM
CLIENT: DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT Dekalb county, georgia
PROJECT: KENSINGTON ROAD PUMP STATION & PIPELINE DESIGN © 2010 R2T INC.
REV DATE DESCRIPTION 0 9/25/20 ISSUED FOR CONSTRUCTION Image: State of the state
RAWN BY: RV

jobsite at all times and shall not be modified or altered without authorization from DeKalb County Development Services.

NOTES:

1. SEE DRAWING E-02 FOR PUMPS THE CONTROL STRATEGY.

2. FOR PUMP CONTROL PANEL PCP-1 DETAILS SEE DWG. E-02.

3. A SUBMERSIBLE PRESSURE TRANSMITTER PT-1 SHALL BE USED TO MEASURE THE WATER LEVEL IN THE WETWELL. DeKalb C

SANITARY SEWER

ina Droisarta) COMR - Nakaik) 0210 - Kanainaton DCV 31 Anthonina Cad Files/ PROCESS/ KENSINGTON-DTI dwg - PRINTED BY

jobsite at all times and shall not be modified or altered without authorization from DeKalb County

	A5°± P	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	B H FT) (FT) 0.9 0.8 1.2 1.1 1.5 1.3 1.8 1.6 2.3 2.2 1.3 1.1 1.6 1.6 2.1 1.9 2.5 2.3 3.3 3.0 1.7 1.6 2.2 2.2 2.8 2.7	C VOL (FT) (YD ³) 0.45 0.010 0.60 0.022 0.75 0.041 0.90 0.071 1.15 0.149 0.65 0.023 0.80 0.048 1.05 0.097 1.25 0.165 1.65 0.362 0.85 0.050 1.10 0.113 1.40 0.222		(2) CC	#4 REIN DAT EXPO BARS V	FORCED SED AR VITH RO	BARS EA OF SKOTE -		
<u>Plan</u>		12 16	3.3 3.3 4.5 4.3	1.65 0.375 2.25 0.887		F	ITTING a	DIA (INI)	B (FT)	H (FT)	
		90 10 12 16 6 8 16 8	2.3 2.2 3.1 2.9 3.8 3.7 4.6 4.4 6.1 5.9 2.1 1.8 2.6 2.5 3.2 3.1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			11-1/4	6 8 10 12 16	(FT) 1.0 1.2 1.5 1.9 2.4	0.3 0.4 0.6 0.8 1.0	0.00 0.02 0.02 0.03 0.03
		12 3 16 5	3.9 3.7 5.1 5.0	1.95 0.565 2.55 1.303			22-1/2	6 8 10 12 16	1.3 1.7 2.1 2.5 3.2	0.5 0.7 0.9 1.1 1.6	0.0 ² 0.0 0.0 0.12 0.30
<u>SECTION</u>	<u>N A-A</u>						45	6 8 10 12 16	1.7 2.2 2.7 3.3 4.3	0.7 0.9 1.2 1.5 2.0	0.03 0.08 0.16 0.30 0.68
 NOTES: 1. DIMENSIONS OF THRUST STATIC PRESSURE OF 25 OF 2,000 PSF. 2. DIMENSIONS SHOWN CAN BUT IT IS IMPORTANT TH TABLE BE USED AND TH, NOT BE EXCEEDED. 3. IT IS THE RESPONSIBILIT THAT THE THRUST BLOCK FORCES THAT ARE ASSOC OR FORCE MAIN. 	BLOCKS WERE CA 50 PSI AND A SOIL N BE VARIED AS FI NAT THE CORRECT AT ALLOWABLE SOI Y OF THE DESIGN KS IN THE CHART CIATED WITH THE F	LCULATED ASSUMII BEARING PRESSU ELD CONDITIONS I VOLUME AS SHOW BEARING PRESS ENGINEER TO VEI MEET THE REQUIR PROPOSED WATER	NG A JRE DICTATE, N IN URE RIFY RED LINE			NOTE: 1. DII PR BE 2. DII IT US 3. IT FO	MENSIONS (ESSURE OF ARING PRES MENSIONS S IS IMPORTA ED AND TH IS THE RE AT THE THF RCES THAT	DF THRUS 250 PSI SSURE OF SHOWN C/ NT THAT AT ALLOW SPONSIBIL RUST BLO ARE ASS	T BLOCKS , A DEPT 2,000 F AN BE VA THE COR ABLE SOI ITY OF T CKS IN T OCIATED	3 WERE C H OF CO 'SF. RECT AS RECT VOL L BEARIN HE DESIG HE CHAR WITH THE	ALCULA VER OF IELD (UME AS G PRES N ENGII MEET PROP(
	STANI	OARD DETAILS	<u>,</u>		09/17			•		ST	ANDA
DeKalb County	Bl Hor Wate	ocking Detail izontal Thrust r and Forcemair	า		otters	Deł	Kalb C	ount	y		Bloc Down
GEORGIA	N	TTO SCALE		DETAIL NO.	G-001	0	EORO	ALA			NOT

GEORGIA

GEORGIA

NOT TO SCALE

jobsite at all times and shall not be modified or altered without authorization from DeKalb County

PROJECT NUMBER SHEET TOTAL ND. SHEETS THOD OF CTING PIPE M	
PIPE LEAVING 3° OF ISH EXPOSED.	RIVER TO TAP
APPROXIMATELY G OF WALL.	1841 PEELER RD. UNIT C ATLANTA, GA 30338 PHONE: (678) 336-5721 WWW.R2TINC.COM
AL CORE INSIDE EAL WITH GROUT IESS OF GROUT). WHEN SET AND RUB L JOINTS. USE WHERE CONCRETE BELL OR HUB END .ET	D D RGIA
ED PIPE	KALB COUNT PARTMENT WATERSHE IANAGEME
CULAR PRECAST BASE ARATE STANDARDS. IEEL W POINTS IS ARE	
RANSPORTATION	ON ROAD -ATION & PROJECT
AUG. 1999 DESIGN ENGINEER IOI9A PRECAST	KENSING RENSING PUMP ST PIPELINE
PROJECT NUMBER SHEET OVAL	
	INTERINATE DESCRIPTION 0 9/25/20 ISSUED FOR CONSTRUCTIO 1 11/3/20 LDP COMMENTS 2 12/4/20 LDP COMMENTS 2 12/4/20 LDP COMMENTS
ACEMENT SHALL COMPCY WITH I'VE PROVISION WHICH MODIFY JUITS, CONE SECTIONS, GRADE C-478 UNLESS OTHERWISE NOTES VE STEEL REINFORCEMENT AS SHOW BE PRECAST. A MINIMUM OF G EMITLES OF HOLE FOR ALLACENT LL REMAIN IN WALL BETWEEN ANY OF ALINEMENT AND SIZE OF ALL	C PROFESSIONAL 12/04/20 ENGINEER CEORGE AJY
# OF 6" OF WALL BETWEEN TOP SE FICATIONS FOR CHANNEL REQUIRE SIZES AND LOCATION. HEIGHT WHEL BUILT FROM GROUT OR H" BUT SHOULD NOT EXTEND BEYOND ALL HAVE TONGUE AND CROOVE RANSPORTATION	SHEET TITLE: CIVIL DETAILS
GIA professionals on design or county code RD The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any violation of any of the provisions of applicable codes or of any other ordinance of the jurisdiction. Permits presuming to give authority to violate or cancel the provisions of applicable codes or any other ordinance of the jurisdiction shall not be valid. The documents and other data shall not prevent the ESIGNER TOTILA CEDITION (CEDITION)	PROJECT NO. 14-902883 SCALE: AS NOTED CHKD BY: AR DESIGNED BY: GR
PRECAST PRE	CD-06

	TABLE NO.I- QUANTITIES FOR HEADWALLS												
	C	U. YDS. CONCR	ETE (PAY QUA	NTITIES)	Ж		LBS. STEEL (GIVEN FOR INFORMATION ONLY)						
	FOR	SINGLE LINE		ADD FOR	ÁDD'L LINE		FOR S	FOR SINGLE LINE			ADD FOR EACH ADD'L LINE		
D	INLET	OUTLET		INLET	OUTLET		INLET	OUTLET		INLET	OUTLET		
15″	0.87	0.93		0.60	0.66		102	113		73	83		
18"	1.10	I.I6		0.85	0.93		106	7		93	104		
24"	1.61	1.69		1.29	1.37		127	138		124	134		
30"	2.21	2.32		1.83	1.96		170	180		154	164		
36″	2.92	3.05		2.49	2.63		238	254		196	212		
42"	3.73	3.87		3.00	3.17		290	306		231	247		
48"	4.62	4.80		3.58	3.74		335	351		265	281		
54″	5.63	5.83		4.17	4.38		407	428		319	340		
60″	6.72	6.95		4.82	5.01		456	477		360	391		
72″	9.22	9.48		6.24	6.46		623	649		475	494		
84″	14.84	15.19		9.05	9.29		1517	1539		1017	1044		
96″	18.88	19.27		11.13	11.41		2118	2150		1323	1350		
						WNOTE:							

INLET HEADWALL

"QUANTITIES SHOWN WILL BE ACTUAL PAY QUANTITIES FOR CLASS "A" CONCRETE, INCLUDING REINFORCED STEEL. NO ADJUSTMENT WILL BE MADE FOR AS BUILT QUANTITIES.

D - INSIDE DIAMETER OF PIPE CULVERT

H = D + IO'' MIN. FOR C.M. PIPEH = D + PIPE WALL THICKNESS + 8" FOR CONC. PIPE (13/12 D + 9" TYP.)

T = 8"FOR D = 72"OR LESST = IO" FOR D = OVER 72"

