

CONSTRUCTION DRAWINGS FOR:

TOWN OF RIDGELAND WATER AND SEWER RESILIENCY IMPROVEMENTS

REQUEST FOR BIDS NO: TOR-2023-02



MAYOR JOSEPH N. MALPHRUS, JR

MAYOR PRO TEMPORE TOMMY RHODES

COUNCIL MEMBERS JOSEPHINE BOYLES CHRIS DUBOSE GRADY WOODS

TOWN ADMINISTRATOR DENNIS E. AVERKIN

PROJECT #: 17-007:035



PREPARED BY

PART I:	Ρ
PART II:	G
PART III:	V
PART IV:	S

DATE: MAY 2023

BID ISSUE ISSUE:

PUMP STATION IMPROVEMENTS

GRAVITY SEWER REHABILITATION

WELL SITE #2 IMPROVEMENTS

SCADA SYSTEM IMPROVEMENTS

EDA AWARD #: 04-79-07454

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UTILITY SEPARATION NOTES

- 1. UTILITY SEPARATION FROM WATER MAINS SHALL BE IN ACCORDANCE WITH THE TOWN OF RIDGELAND STANDARD SPECIFICATIONS FOR WATER AND SEWER SYSTEMS. ALL DISTANCES NOTED ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- 2. HORIZONTAL SEPARATION BETWEEN WATER MAIN AND SEWER PIPE UNDER THE TOWN OF RIDGELAND STANDARD SPECIFICATIONS FOR WATER AND SEWER SYSTEMS SHALL BE A MINIMUM OF TEN FEET WHERE POSSIBLE. THE MINIMUM OF THE HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND SEWER PIPE SHALL BE REDUCED WHERE THE BOTTOM OF THE WATER MAIN IS AT LEAST 18" INCHES ABOVE THE TOP OF THE SEWER AS APPROVED BY THE ENGINEER.
- 3. VERTICAL SEPARATION BETWEEN WATER MAIN AND SEWER PIPE SHALL BE 18 INCHES. PREFERENCE IS FOR THE WATER MAIN TO BE ABOVE THE OTHER PIPELINE.
- 4. FOR UTILITY CROSSINGS WITH WATER MAINS, ONE FULL LENGTH (20 FEET) OF WATER MAIN QUALITY PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THAT THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. WATER PIPE SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE FOR ALL CROSSINGS OF SEWER LINES AND DRAINAGE LINES, REGARDLESS OF CLEARANCE; FOR ALL CROSSINGS OF CREEKS, RIVERS, OR OTHER WATER BODIES; AND FOR WATER MAINS INSTALLED IN CASING. THE CONTRACTOR SHALL VERIFY, RECORD, AND REPORT THE VERTICAL SEPARATION FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE AT THE CROSSING.
- 5. NO WATER MAIN SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE, A STORM SEWER MANHOLE, OR A STORM SEWER INLET STRUCTURE.

GENERAL NOTES

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REFERENCE INDIVIDUAL EXISTING CONDITIONS DRAWINGS AND COORDINATE SYSTEM INFORMATION FOR EACH SITE	FOR ELEVATION 16.	THE CONTRACTOR'S A PLANS DO NOT STAND SPECIFICATIONS AND
IN ACCORDANCE WITH GENERAL CONDITIONS, IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND AV UTILITIES, OTHER STRUCTURES AND OBSTRUCTIONS BOTH BELOW THE GROUND SURFACE. ALL DAMAGE RESULTING F CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREM REPAIRED AT THE CONTRACTORS EXPENSE.	THE SOLE OID ALL 17. ABOVE AND FROM THE MENT SHALL BE	CONTRACTOR TO FUR LIGHTING AS REQUIRE TRANSPORTATION SU DEVICES FOR STREET DETOUR SIGNS AS NE
THE CONTRACTOR SHALL MAINTAIN UNINTERRUPTED SERVICE CONNECTIONS. THE MANNER IN WHICH THIS IS A	/ICE AT ALL 18. CCOMPLISHED	
SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, REQUIREMENTS OF THE CONTRACT SPECIFICATIONS.	SUBJECT TO THE 19.	IF SOLVENT CONTAMIN BE STOPPED AND THE THE PERMITTING AGE
RIGHT-OF-WAY LINE.		AREA. THE DUCTILE IF ANY SOLVENT NOTED.
ALL PIPE LENGTHS SHOWN ON PLAN AND PROFILES ARE FF CENTER OF INLETS OR MANHOLES OR ALONG FORCEMAIN MAINS.	COM CENTER TO OR WATER 20.	PIPE JOINT DEFLECTIO THE MANUFACTURER' JOINT.
THE CONTRACTOR SHALL PROVIDE NO LESS THAN A 6 INCH BETWEEN ALL UTILITIES, OTHER THAN WATER MAINS UNLES DIRECTED. NO SPECIAL PAYMENT ALLOWED.	I CLEARANCE SS OTHERWISE 21.	ALL PIPELINES, WATEF HAVE A 12 GAUGE SOL
MINIMUM PIPE COVER SHALL BE 36 INCHES FOR PIPES LESS DIAMETER; 48 INCHES FOR PIPES 14" OR LARGER IN DIAMET INCHES BELOW ANY SCDOT ROAD ELEVATION.	3 THAN 12" IN ΓER; AND 36	ALONG THE TOP OF TH SURFACE AT EACH LO FROM THE SURFACE A LOCATIONS TRACER W BOX WITH PLAIN LID A
CONTRACTOR SHALL EMPLOY A LAND SURVEYOR, REGISTE STATE OF SOUTH CAROLINA, TO REFERENCE AND RESTOR CORNERS AND LANDMARKS WHICH MAY BE DISTURBED BY	ERED IN THE E PROPERTY CONSTRUCTION. 22.	MARKER PAIR.
EXISTING UTILITIES HAVE BEEN SHOWN FROM THE BEST AN INFORMATION. CONTRACTOR SHALL NOTIFY THE PROPER REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO COMMENT EXCAVATION NEAR UTILITY. CONTRACTOR IS RESPONSIBLE OF ALL SUCH UTILITIES IN THE PATH OF CONSTRUCTION. T	/AILABLE UTILITY CING E FOR LOCATION THE LOCATION	ROUTE OF NEW PIPING IRRIGATION/SPRINKLE FOR THE REPAIR/REPL SYSTEMS ON PRIVATE PERFORMED BY CONT
SHALL BE MADE WELL IN ADVANCE OF CONSTRUCTION SO IN CONSTRUCTION MAY BE RESOLVED.	THAT CONFLICTS 23.	THE CONTRACTOR SH ADJACENT TO BUILDIN EXCAVATIONS DEEPER
THE DEPARTMENT OF TRANSPORTATION IS TO BE NOTIFIED ADVANCE AND RAILROAD COMPANY 7 DAYS IN ADVANCE OF WITHIN THEIR RESPECTIVE RIGHT OF WAY.) 48 HOURS IN F CONSTRUCTION	SHORING SYSTEM DES SEALED BY A SOUTH C
<u>UTILITY CONTACTS</u> SPECTRUM – (833-267-6094) CENTURYLINK – (866-642-0444) DOMINION ENERGY SOUTH CAROLINA – CUSTOMER SER (4.000-054, 7024)	24. VICE MAIN LINE	ALL PROTECTED TREE LAND CLEARING OR CO CONSTRUCTION OPER AT THE DRIP LINE OF A COUNTY ZONING ORD
PALMETTO ELECTRIC COOPERATIVE – RIDGELAND OFFIC TOWN OF RIDGELAND WATER & SEWER DEPARTMENT – (843-226-0312)	CE (843-726-5551) 25. TY SHAFFER	TREE BARRICADE APP BARRICADES BEFORE CONSTRUCTION.
THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS A LIMITED INVESTIGATION TECHNOLOGIES AND SHOULD BE C	ARE BASED ON 26. CONSIDERED	SCDOT RIGHTS-OF-WA
	27.	CONSTRUCTION ACTIN
CONTACT SUNSHINE STATE ONE-CALL OF SOUTH CAROLIN REQUIRED BY SC CODE § 58-36-120 (2018).	A, INC. AS	CONSTRUCTION. NOTI REQUIREMENTS VARY PROXIMITY TO A COAS
CONTRACTOR TO LOCATE, PROTECT AND SUPPORT ALL WA GAS TELECOMMUNICATIONS AND ELECTRIC UTILITIES ENCO DURING CONSTRUCTION.	ATER, SEWER, OUNTERED	SUBMIT AN NOI TO SCI
IF THE CONTRACTOR ENCOUNTERS GROUNDWATER, THE C SHALL BE RESPONSIBLE FOR UTILIZING DEWATERING SYST REMOVE WATER FROM THE EXCAVATIONS. PRIOR TO BEGI	CONTRACTOR TEM(S) TO INNING ANY	

DEWATERING, THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS LISTED IN THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL REGULATION 61-113, GROUNDWATER USE AND REPORTING; AND REGULATION 61-9, WATER POLLUTION CONTROL PERMITS, BEFORE ANY DEWATERING CAN BEGIN. CONTRACTOR SHALL SECURE THE SCDHEC GENERAL PERMIT FOR THE DISCHARGE OF GROUND WATER. ATTENTION IS DIRECTED TO THE FACT THAT THESE D BY THEMSELVES. ALSO TO BE INCLUDED ARE THE D DETAILS.

RNISH DETOUR AND CONSTRUCTION SIGNING AND ED IN SOUTH CAROLINA DEPARTMENT OF JPPLEMENT TO THE MANUAL ON TRAFFIC CONTROL TS AND HIGHWAYS, AND OTHER SPECIAL ADVANCED ECESSARY.

PIPE SHALL BE NSFPW RATED.

NATION IS FOUND IN THE PIPE TRENCH, WORK SHALL E PROPER AUTHORITIES NOTIFIED. WITH APPROVAL OF ENCY, DUCTILE IRON PIPE, FITTINGS AND SOLVENT MATERIAL SHALL BE USED IN THE CONTAMINATED RON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND).

ON, WHERE ALLOWED BY EXCEPTION, SHALL MATCH S'S RECOMMENDATION FOR THE SIZE AND TYPE OF

ERMAINS, FORMAIN, AND SERVICE LATERALS SHALL DLID COPPER SINGLE STRAND TRACER WIRE TAPED THE PIPE. THE TRACER WIRE SHALL BE BROUGHT TO OCATOR POST ON FORCE MAINS AND ACCESSIBLE AT ALL VALVE BOXED AND LOCATOR POSTS. AT WIRE SURFACES BETWEEN VALVES, REGULAR VALVE AND COLLAR SHALL BE INSTALLED BETWEEN A PIPELINE

CONTACT EACH PROPERTY OWNER ALONG THE IG AND CONSTRUCTION AND LOCATE ANY EXISTING ER SYSTEMS. CONTRACTOR SHALL BE RESPONSIBLE PLACEMENT OF ANY DAMAGED IRRIGATION/SPRINKLER E PROPERTY OR CITY R.O.W'S DUE TO WORK BEING TRACTOR AND/OR SUB-CONTRACTORS.

HALL SUBMIT A SHORING PLAN FOR EXCAVATIONS NGS, ADJACENT TO RIGHT-OF-WAY, OR ANY OTHER ER THAN 7 FEET. THE SHORING PLAN SHALL INCLUDE ESIGN CALCULATIONS AND DETAILS SIGNED AND CAROLINA REGISTERED PROFESSIONAL ENGINEER.

EES SHALL BE PROTECTED FROM INJURY DURING ANY CONSTRUCTION. PRIOR TO ANY LAND CLEARING OR RATIONS, TEMPORARY BARRIERS SHALL BE INSTALLED ALL PROTECTED TREES IN ACCORDANCE WITH JASPER DINANCE § 13:5 (2).

PROVAL: OBTAIN TOWN APPROVAL OF TREE BEGINNING CLEARING OPERATIONS OR ANY

AY PERMITS ARE REQUIRED FOR THIS PROJECT

IVITIES DISTURBING ANY LAND AREA WITHIN JASPER UIRE NOTIFICATION TO SCDHEC PRIOR TO TIFICATION REQUIREMENTS AND/OR NPDES PERMIT Y BASED UPON LAND DISTURBANCE AREA AND ASTAL RECEIVING WATER BODY. CONTRACTOR SHALL CDHEC PRIOR TO CONSTRUCTION.







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— SAN — SANITART SEWER LINE	LEGEND.	CONTOUR SPOT ELEVATION SANITARY SEWER MANHOLE INVERT ELEVATION POWER POLE NOT TO SCALE NOW OR FORMERLY RIGHT OF WAY TYPICAL WETLAND FLAG LABEL POLYVINYL CHLORIDE PIPE WATER VALVE ELECTRIC METER ANTENNA GUY WIRE ANCHOR CLEANOUT OVERHEAD POWERLINE SANITARY SEWER LINE

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PHOTO-2 LOOKING DOWN IN WET WELL

LOOKING DOWN IN VALVE VAULT

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PHOTO-4 LOOKING SOUTHEAST AT WET WELL AND VALVE VAULT

PHOTO-6 LOOKING SOUTHWEST FROM WET WELL TO VALVE VAULT

LOOKING SOUTHWEST FROM WET WELL TO VALVE VAULT

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PHOTO-9

FROM GOOGLE CAPTURE MAY 2023

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1. ALL METALS INSIDE THE WET WELL INCLUDING BUT NOT LIMITED TO GUIDE RAILS, LIFTING CHAINS, NUTS, BOLTS, CABLE HOLDERS, PIPE SUPPORTS AND BRACES, ETC., TO BE 316 STAINLESS STEEL, UNLESS SPECIFICALLY NOTED OTHERWISE. 2. PUMP DISCHARGE PIPING AND FITTINGS: DISCHARGE PIPING AND FITTINGS FROM PUMP ELBOW THROUGH TO CHECK VALVE IN VALVE VAULT SHALL BE A MINIMUM 4" (UNLESS APPROVED OTHERWISE BY TOWN) AND SHALL BE: a. FUSED PVC PIPE AND STAINLESS STEEL FITTINGS: PVC PIPE SHALL BE C900 DR18 AND SHALL BE FUSED AS ONE PIECE BETWEEN PUMP BASE ELBOW AND 90 DEGREE BEND IN WET WELL, AND FROM 90 DEGREE BEND IN WET WELL TO CHECK VALVE IN VALVE VAULT. 90 DEGREE BEND IN WET WELL SHALL BE FLANGED 316 STAINLESS STEEL, SCH 40. PVC PIPING ENDS SHALL UTILIZE RESTRAINED FLANGE ADAPTER (MEGAFLANGE BY EBAA IRON OR TOWN APPROVED EQUAL) WITH 316 SS FASTENERS TO CONNECT TO PUMP BASE ELBOW, 90 DEGREE BEND, AND CHECK

AERATION SYSTEM: WET WELL WIZARD SYSTEM AS MANUFACTURED BY RELIANT WATER TECHNOLOGIES, NEW ORLEANS, LA. WWW.RELIANTWATER.US.COM SHALL BE INSTALLED IN WET WELL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. WET WELL WIZARD SYSTEM SHALL INCLUDE (1) WET WELL WIZARD, (1) 1.5 HP BLOWER, AND ALL

4. VENT: PROVIDE 6"X6" OPENING THROUGH THE CONCRETE TOP OF THE WET WELL AND INSERT 8"X 8" X 1-1/2" THICK

5. FITTINGS: ALL DUCTILE IRON FITTINGS SHALL BE EPOXY LINED. ALL BURIED FITTINGS SHALL BE RESTRAINED. 6. LEVEL MONITORING: INSTALL ULTRASONIC LEVEL MEASUREMENT SYSTEM IN ACCORDANCE WITH ELECTRICAL PLANS AND SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS. PROVIDE FOUR BACKUP POLYURETHANE ENCASED MERCURY FLOAT SWITCHES FOR PUMPS OFF, LEAD PUMP ON, LAG PUMP ON, AND HIGH WATER ALARM.

WET WELL: PRECAST CONCRETE WET WELL SHALL MEET ASTM C-478 STANDARD. CONCRETE, REINFORCING STEEL, AND BUOYANCY DESIGN AND CALCULATIONS TO BE PREPARED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL

8. WET WELL AND MANHOLES: ALL EXTERIOR JOINTS OF PRECAST CONCRETE WET WELL AND MANHOLES SHALL BE SEALED WITH A 18" WIDE RUBBERIZED ASPHALT MEMBRANE TAPE. EXTERIOR COATING OF BITUMINOUS COATING AS SPECIFIED IN

9. INTERIOR PROTECTIVE COATINGS: PROTECTIVE COATING SHALL BE APPLIED TO THE INTERIOR OF WET WELLS AND RECEIVING MANHOLES. COATING SYSTEM IN WET WELL SHALL BE APPLIED TO VERTICAL WALLS AND TOP, AT A MINIMUM. PROTECTIVE COATING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND SHALL BE APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND BY INSTALLER CERTIFIED BY COATING SYSTEM MANUFACTURER. 10. EMERGENCY PUMP OUT CONNECTION: PIPE SIZE FOR EMERGENCY PUMP OUT CONNECTION SHALL MATCH PUMP

a. REFERENCE PROJECT GEOTECHNICAL REPORT "RIDGELAND PUMP STATIONS, RIDGELAND, SOUTH CAROLINA"

b. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 12", AT A MINIMUM, OR PER GEOTECHNICAL REPORT

13. MIN. WATER LEVEL: MINIMUM WATER LEVEL IN WET WELL SHALL BE 30" MINIMUM FOR PROPER OPERATION OF THE WET WELL WIZARD, SHALL COVER TOP OF PUMP MOTOR, OR SHALL BE GREATER IF RECOMMENDED BY PUMP

a. PUMPS SHALL BE SULZER ABS PUMPS SUITABLE FOR SUBMERSIBLE SEWER SERVICE. PUMPS SHALL BE 230/460

15. FLOOD ZONE: DESIGN ENGINEER OF RECORD SHALL PROVIDE INFORMATION ON THE FLOOD ZONE OF THE PUMP STATION SITE AND SHALL PROVIDE VERIFICATION THAT THE TOP OF THE WET WELL IS ABOVE THE 100 YEAR FLOOD ELEVATION AND THAT THE BOTTOM OF THE CONTROL PANELS, GENERATOR RECEPTACLE AND GENERATOR SLAB AREA ALL ABOVE THE 100 YEAR FLOOD ELEVATION + 2 FEET OR THE 500 YEAR FLOOD ELEVATION, WHICHEVER IS GREATER. 16. PS-3 PROJECT SITE LOCATED IN ZONE X AREA OF MINIMAL FLOODING (NO ESTABLISHED FLOOD ELEVATIONS) PER FEMA

17. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ELEVATIONS AND DIMENSIONS CALLED OUT ON THIS PLAN SET FOR THE PUMP STATION PRIOR TO ORDERING OF ANY MATERIALS OR COMPONENTS OF THE PUMP STATION. ANY DEVIATION OF THE LAYOUTS INDICTED ON THIS PLAN MUST BE COMMUNICATED TO THE TOWN AND ENGINEER OF

18. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY STABILIZATION FOR DEMOLITION AND CONSTRUCTION AND SHALL HIRE A SPECIALTY PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA TO DESIGN THE STABILIZATION SYSTEM FOR EXCAVATION AND EVALUATE THE DRAWDOWN OF THE DEWATERING OPERATIONS DURING CONSTRUCTION IN ORDER TO PROTECT THE EXISTING PS-12 STRUCTURES. DESIGN AND EVALUATION SHALL BE SIGNED

19. IF THE CONTRACTOR ENCOUNTERS GROUNDWATER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILIZING DEWATERING SYSTEM(S) TO REMOVE WATER FROM THE EXCAVATIONS. PRIOR TO BEGINNING ANY DEWATERING OPERATIONS, THE CONTRACTOR SHALL PREPARE A DEWATERING PLAN FOR APPROVAL AND SHALL SECURE ANY

20. PUMP STATION SITE SHALL HAVE CONCRETE SLAB AROUND WET WELL VALVE VAULT AND PANEL AREAS AS NOTED. PROVIDE 1/2" EXPANSION JOINT MATERIAL BETWEEN WET WELL AND SLAB AND VALVE VAULT AND SLAB. CONCRETE SLAB

21. RESTORE ALL ARES DISTURBED BY CONSTRUCTION TO PRE CONSTRUCTION CONDITION. HYDROSEED AND MULCH ALL UNPAVED AREAS OUTSIDE OF FENCING. REFERENCE DRAWING C7.3 FOR RESTORATION REQUIREMENTS INSIDE PUMP

> *PUMP STATION: TOWN OF RIDGELAND PS-3 *LOCATION: HWY 17; 11306 N. JACOB SMART BLVD. DESIGN CONDITION: 900 GPM @ 99 FT TDH *PUMP MANUFACTURER: SULZER *MODEL#: XFP105J-CB2 15 1/3" IMP SERIAL#: HORSEPOWER: 57.7 HP VOLTAGE: DATE INSTALLED: *ENGINEER: FOUR WATERS ENGINEERING INC. CONTRACTOR:

*INFORMATION REQUIRED ON CONSTRUCTION PLANS. REMAINING INFORMATION REQUIRES ASBUILT

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	DUPL	EX PUMP STATION ONE LINE SCHEDULE
	ITEM#	PS-3 58HP 460V 3PH 70.9FLA
	(1)	3"C W/ 4 NO.350MCM
	(1 A)	3"C W/ 4 ND.350MCM, 1 ND.4(G)
	(1B)	3"C W/ 3 NO.350MCM, 1 NO.4(G)
	2	ENCLOSED BREAKER, 300A/3P/4X SS ENCLOSURE UL SERVICE LABEL, POST FAULT CURRENT AVAILABLE & DATE CALCULATED 18000 MIN A.I.C @ 480V
	3	300A/4P 4X STAINLESS STEEL AUTOMATIC TRANSFER SWITCH MOUNTED ON EQUIPMENT FRAME
	4	³ / ₄ " SCH.80 PVC W/1ND.2 (G) GROUNDING ELECTRODE CONDUCTOR
	5	2"C.W/3NO.3, 1 NO.6(G) 4NO.12(CNTLS)
	6	SEALING HUB, C-H TYPE ES, NOTE G6
	7	³ / ₄ "C W/2NO.12, 1NO.12(G)
	8	200A/3P MOTOR BREAKER 18 000 MIN, A.I.C. @ 480V
ľ	9	20A/1P CIRCUIT BREAKER, 10 000 MIN, A.I.C. @ 120V
	(10)	3_{4} C W/4N0.12, 1N0.12(G) EOR ELOATS
	(11)	3ND.10, 1ND.10(G) SHALL NOT EXCEED 18" IN LENGTH
	(12)	MOTOR CONTROLLER: REDUCED VOLTAGE SOLID STATE STARTER WITH SHORTING CONTACTOR FOR 58HP 460V 3PH 70.9FLA MOTOR
	(13)	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH POWER BLOCKS AND TERMINAL STRIPS AS REQUIRED, NOTE G10
	(14)	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH TERMINAL STRIPS AS REQUIRED, NOTE G11,G12
	(15)	30A/3P SURGE PROTECTION DEVICE CIRCUIT BREAKER, COORDINATE WITH EQUIPMENT 18 000 MIN A.I.C. @ 480V
	(16)	2"C W/ SCADA ALARM AND STATUS CONDUCTORS
	(17)	THREE 1"C W/CONDUCTORS AS REQUIRED FOR CONTROL AND ALARM ANNUNCIATION
	18	1"C W/CONDUCTORS AS REQUIRED FOR LOAD CONTROL
	(19)	ULTRASONIC LEVEL CONTROLLER HYDRORANGER 200
	20	20A/2P CIRCUIT BREAKER FOR GENERATOR CODLANT HEATER, 10000 MIN, A.I.C. @ 240 V
	21	WET WELL WIZARD BREAKER 15A/2P 18 000 MIN. A.I.C. @ 480V
	22	³ / ₄ "C W/2NO.12, 1NO.12(G)
	23	SURGE PROTECTION DEVICE CONNECTION TO GROUNDING DELTA: $\frac{3}{4}$ SCH.80 PVC W/ 1 NO.10(G)
ľ	(24)	2"C W/LEVEL TRANSDUCER CABLE
	(25)	20A/2P CIRCUIT BREAKER FOR EXTERNAL TRANSFORMER PRIMARY, 18000 MIN, A.I.C. @ 480V
	26	7.5KVA NEMA 3X TRANSFORMER W/ STAINLESS STEEL ENCLOSURE FOR 480V SYSTEM CONTROL POWER & AUXILIARY LOADS
ľ	27	40A/2P CIRCUIT BREAKER FOR EXTERNAL TRANSFORMER SECONDARY, 10000 MIN. A.I.C. @ 240V
	$\overline{\bigcirc}$	3,"sell 90 DVC W/ 1 NO 8/C)

ELECTRICAL NOTES:

- WFL-MVOLT-YKC62-PE-DDBXD.
- 4. 3" SCHEDULE 80 PVC STUBBED INTO WET WELL FOR PUMP CABLES.

1. THE EXACT LOCATION OF SERVICE SHALL BE COORDINATED IN THE FIELD WITH OTHER WORK ON THE PROJECT SITE AND THE ELECTRICAL UTILITY. PROVIDE AERIAL SERVICE AS REQUIRED BY THE UTILITY AND PROJECT REQUIREMENTS. COORDINATE WITH DOMINION ENERGY: CONTACT PARKS MOSS, CUSTOMER SERVICE ENGINEER 843-815-8808 2. THE SERVICE METER SHALL BE PROVIDED IN ACCORDANCE WITH THE ELECTRICAL UTILITY STANDARDS. PROVIDE METER GROUND AND METER BASE AS REQUIRED. 3. MOUNT THE AREA LIGHT ON THE 35' CLASS 4 PRESSURE TREATED SERVICE POLE, REFER TO DETAIL 5/E0.1. THE FLOOD LIGHT SHALL BE LITHONIA D-SERIES SIZE 2 LED FLOOD WITH YOKE MOUNT, SO CORD, AND INTEGRAL PHOTOCELL; CATALOG NO. DSXF2 LED-3-A530/40K-A. MOUNT THE FLOOD LIGHT TO THE TOP OF THE SERVICE POLE BELOW THE SERVICE DROP RACK. B. PROVIDE A WEATHERPROOF SWITCH ON THE POLE, 48" ABOVE FINISH GRADE.

5. 2" SCHEDULE 80 PVC STUBBED INTO WET WELL FOR FLOATS AND TRANSDUCER CABLES.

A ³∕4"C W∕ ONE CAT 6 CABLE

(B) THREE 1"C W/ CONDUCTORS AS REQUIRED

C ³∕₄"C W/ 2 NO.14, 1 NO.14(G)

(D) ³/₄"C W/ ONE CAT 6 CABLE, 8 NO.14, 1 NO.14(G)

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PHOTO-2 LOOKING INTO WET WELL

<u>PHOTO-3</u> LOOKING NORTHEAST AT PS-4

PHOTO-7 LOOKING WEST OVER VALVE VAULT

PHOTO-4 LOOKING EAST ACROSS VALVE VAULT AND WET WELL

PHOTO-5 LOOKING NORTHEAST AT CONTROL PANEL

PHOTO-8 LOOKING SOUTH TOWARDS PS-4 FROM GARDEN/PARK

PHOTO-9 LOOKING SOUTH AT PS-4 FROM GARDEN/PARK

<u> PHOTO-6</u> LOOKING EAST AT WET WELL

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ALL METALS INSIDE THE WET WELL INCLUDING BUT NOT LIMITED TO GUIDE RAILS, LIFTING CHAINS, NUTS, BOLTS, CABLE HOLDERS, PIPE SUPPORTS AND BRACES, ETC., TO BE 316 STAINLESS STEEL, UNLESS SPECIFICALLY NOTED OTHERWISE. 2. PUMP DISCHARGE PIPING AND FITTINGS: DISCHARGE PIPING AND FITTINGS FROM PUMP ELBOW THROUGH TO CHECK VALVE IN VALVE VAULT SHALL BE A MINIMUM 4" (UNLESS APPROVED OTHERWISE BY TOWN) AND SHALL BE:

a. FUSED PVC PIPE AND STAINLESS STEEL FITTINGS: PVC PIPE SHALL BE C900 DR18 AND SHALL BE FUSED AS ONE PIECE BETWEEN PUMP BASE ELBOW AND 90 DEGREE BEND IN WET WELL, AND FROM 90 DEGREE BEND IN WET WELL TO CHECK VALVE IN VALVE VAULT. 90 DEGREE BEND IN WET WELL SHALL BE FLANGED 316 STAINLESS STEEL, SCH 40. PVC PIPING ENDS SHALL UTILIZE RESTRAINED FLANGE ADAPTER (MEGAFLANGE BY EBAA IRON OR TOWN APPROVED EQUAL) WITH 316

3. AERATION SYSTEM: WET WELL WIZARD SYSTEM AS MANUFACTURED BY RELIANT WATER TECHNOLOGIES, NEW ORLEANS, LA. WWW.RELIANTWATER.US.COM SHALL BE INSTALLED IN WET WELL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. WET WELL WIZARD SYSTEM SHALL INCLUDE (1) WET WELL WIZARD, (1) 1.5 HP BLOWER, AND ALL NECESSARY ASSOCIATED

4. VENT: PROVIDE 6"X6" OPENING THROUGH THE CONCRETE TOP OF THE WET WELL AND INSERT 8"X 8" X 1-1/2" THICK ALUMINUM

. FITTINGS: ALL DUCTILE IRON FITTINGS SHALL BE EPOXY LINED. ALL BURIED FITTINGS SHALL BE RESTRAINED 6. LEVEL MONITORING: INSTALL ULTRASONIC LEVEL MEASUREMENT SYSTEM IN ACCORDANCE WITH ELECTRICAL PLANS AND SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS. PROVIDE FOUR BACKUP POLYURETHANE ENCASED MERCURY FLOAT

7. WET WELL: PRECAST CONCRETE WET WELL SHALL MEET ASTM C-478 STANDARD. CONCRETE, REINFORCING STEEL, AND BUOYANCY DESIGN AND CALCULATIONS TO BE PREPARED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER AND

8. WET WELL AND MANHOLES: ALL EXTERIOR JOINTS OF PRECAST CONCRETE WET WELL AND MANHOLES SHALL BE SEALED WITH A 18" WIDE RUBBERIZED ASPHALT MEMBRANE TAPE. EXTERIOR COATING OF BITUMINOUS COATING AS SPECIFIED IN ANSI

9. INTERIOR PROTECTIVE COATINGS: PROTECTIVE COATING SHALL BE APPLIED TO THE INTERIOR OF WET WELLS AND RECEIVING MANHOLES. COATING SYSTEM IN WET WELL SHALL BE APPLIED TO VERTICAL WALLS AND TOP, AT A MINIMUM. PROTECTIVE COATING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND SHALL BE APPLIED ACCORDING TO MANUFACTURER'S

10. EMERGENCY PUMP OUT CONNECTION: PIPE SIZE FOR EMERGENCY PUMP OUT CONNECTION SHALL MATCH PUMP DISCHARGE

a. REFERENCE PROJECT GEOTECHNICAL REPORT "RIDGELAND PUMP STATIONS, RIDGELAND SOUTH CAROLINA" JANUARY 28,

b. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 12", AT A MINIMUM, OR PER GEOTECHNICAL REPORT

12. "SV" – STORAGE VOLUME: STORAGE VOLUME PER DESIGN ENGINEER OF RECORD AND SHALL BE DESIGNED FOR A MAXIMUM SIX

13. MIN. WATER LEVEL: MINIMUM WATER LEVEL IN WET WELL SHALL BE 30" MINIMUM FOR PROPER OPERATION OF THE WET WELL WIZARD, SHALL COVER TOP OF PUMP MOTOR, OR SHALL BE GREATER IF RECOMMENDED BY PUMP MANUFACTURER.

a. PUMPS SHALL BE SULZER ABS PUMPS SUITABLE FOR SUBMERSIBLE SEWER SERVICE. PUMPS SHALL BE 230/460 VOLTS, 3

15. FLOOD ZONE: DESIGN ENGINEER OF RECORD SHALL PROVIDE INFORMATION ON THE FLOOD ZONE OF THE PUMP STATION SITE AND SHALL PROVIDE VERIFICATION THAT THE TOP OF THE WET WELL IS ABOVE THE 100 YEAR FLOOD ELEVATION AND THAT THE BOTTOM OF THE CONTROL PANELS, GENERATOR RECEPTACLE AND GENERATOR SLAB AREA ALL ABOVE THE 100 YEAR FLOOD

16. PS-4 PROJECT SITE LOCATED IN ZONE X AREA OF MINIMAL FLOODING (NO ESTABLISHED FLOOD ELEVATION) PER FEMA FIRM MAP

17. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ELEVATIONS AND DIMENSIONS CALLED OUT ON THIS PLAN SET FOR THE PUMP STATION PRIOR TO ORDERING OF ANY MATERIALS OR COMPONENTS OF THE PUMP STATION. ANY DEVIATION OF THE LAYOUTS INDICTED ON THIS PLAN MUST BE COMMUNICATED TO THE TOWN AND ENGINEER OF RECORD FOR FURTHER

18. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY STABILIZATION FOR DEMOLITION AND CONSTRUCTION AND SHALL HIRE A SPECIALTY PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA TO DESIGN THE STABILIZATION SYSTEM FOR EXCAVATION AND EVALUATE THE DRAWDOWN OF THE DEWATERING OPERATIONS DURING CONSTRUCTION IN ORDER TO PROTECT THE EXISTING PS-6 STRUCTURES. DESIGN AND EVALUATION SHALL BE SIGNED AND SEALED AND SUBMITTED TO THE

19. IF THE CONTRACTOR ENCOUNTERS GROUNDWATER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILIZING DEWATERING SYSTEM(S) TO REMOVE WATER FROM THE EXCAVATIONS. PRIOR TO BEGINNING ANY DEWATERING OPERATIONS, THE CONTRACTOR SHALL PREPARE A DEWATERING PLAN FOR APPROVAL AND SHALL SECURE AN SCOHEC NPDES GENERIC PERMIT WHICH COVERS STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND DEWATERING OF

20. PIMP STATION SITE SHALL HAVE CONCRETE SLAB AROUND WET WELL VALVE VAULT AND PANEL AREAS AS NOTED. PROVIDE 🗄 EXPANSION JOINT MATERIAL BETWEEN WET WELL AND SLAB AND VALVE VAULT AND SLAB. CONCRETE SLAB SHALL BE 4000 PSI

21. RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO PRE CONSTRUCTION CONDITION. HYDROSEED AND MULCH ALL UNPAVED AREAS OUTSIDE OF FENCING. REFERENCE DRAWING C2.3 FOR RESTORATION REQUIREMENTS INSIDE PUMP STATION

*PUMP STATION: TOWN OF RIDGELAND PS-4
*LOCATION: JAMES F. TAYLOR DR. & BLUE HERON DR.
DESIGN CONDITION: 350 GPM @ 92 FT TDH
*PUMP MANUFACTURER: SULZER
*MODEL#: XFP100G CB1 10 1/3" IMP
SERIAL#:
HORSEPOWER: 24.8 HP
VOLTAGE:
DATE INSTALLED:
*ENGINEER: FOUR WATERS ENGINEERING, INC.
CONTRACTOR:
*INFORMATION REQUIRED ON CONSTRUCTION PLANS.

DRAWING NUMBER

C2.4

DANE ELIEL NOTES.
PROPANE GAS PIPING ABOVE GROUND
H THREADED JOINTS, ALL WORK AND ERIALS ON THE GAS SYSTEM SHALL PLY WITH THE "INTERNATIONAL CODE", PAINT ALL EXPOSED GAS PIPING
DIL BASED YELLOW ENAMEL PAINT.
PANE GAS PRESSURE REGULATOR SIZED FOR CFH AT 11 INCH WC OUTLET PRESSURE.
PANE GAS LINE U/G BY CONTRACTOR, RDINATE WITH PROPANE COMPANY.
GAS DOWN TO UNDERGROUND, UNDERGROUND ING SHALL BE SDR 11 POLYETHLYLENE PIPE FITTINGS.
GAS UP TO GENERATOR, PROVIDE PLUG VE, UNION AND DRIPLEG AT CONNECTION, RDINATE EXACT LOCATION OF CONNECTION H GENERATOR,
VIDE A CONCRETE PAD FOR THE PROPANE TANK, THICK, 24"WIDER AND 24" LONGER THAN THE PANE TANK, REFER TO DETAIL 1/EO.1 FOR STRUCTION REQUIREMENTS,
VIDE 2" SCH.80 PVC RISER AT TANK MID-POINT, END TO WITHIN 5' OF GENERATOR, CONDUIT L BE 30" BELOW FINISH GRADE, MINIMUM, VIDE DETECTABLE PLASTIC WARNING TAPE 12" DW FINISH GRADE,
VIDE STEEL PIPE BOLLARDS IN FRONT OF THE PANE TANK, 36" ON CENTER, SEE DETAIL THIS ET, BOLLARDS SHALL EXTEND BEYOND THE END THE PROPANE TANK,
D COORDINATE INLET LOCATION ON GENERATOR THE REGULATOR WITH THE PROPANE PROVIDER. REGULATOR SHALL NOT BE WITHIN 5' OF THE ERATOR.

DUPL	EX PUMP STATION ONE LINE SCHEDULE
ITEM#	PS-4 25HP 208V 3PH 71.4FLA
1	3"C W/ 4 NO.350MCM
(1 A)	3"C W/ 4 NO.350MCM, 1 NO.4(G)
2	300A/3P/4X SS ENCLOSURE UL SERVICE LABEL, POST FAULT CURRENT AVAILABLE & DATE CALCULATED 10 000 MIN A.I.C. @ 208V
3	300A/4P 4X STAINLESS STEEL AUTOMATIC TRANSFER SWITCH MOUNTED ON EQUIPMENT FRAME
4	³ /4" SCH.80 PVC W/1NO.2 GROUNDING ELECTRODE CONDUCTOR
5	2"C.W/3NO.2, 1 NO.6(G) 4NO.12(CNTLS)
6	SEALING HUB, C-H TYPE ES, NOTE G6
7	³ / ₄ "C W/2NO.12, 1NO.12(G)
8	200A/3P MOTOR BREAKER 10 000 MIN. A.I.C. @ 208V
9	20A/1P CIRCUIT BREAKER, 10 000 MIN. A.I.C. @ 120V
10	³ / ₄ "C W/4NO.12, 1NO.12(G) FOR FLOATS
(11)	3NO.10, 1NO.10(G) Shall Not Exceed 18" IN LENGTH
(12)	MOTOR CONTROLLER: REDUCED VOLTAGE SOLID STATE STARTER WITH SHORTING CONTACTOR FOR 25HP 208V 3PH 71.4FLA MOTOR
(13)	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH POWER BLOCKS AND TERMINAL STRIPS AS REQUIRED, NOTE G10
(14)	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH TERMINAL STRIPS AS REQUIRED, NOTE G11
(15)	30A/3P 10 000 MIN A.I.C. @ 208V SURGE PROTECTION DEVICE CIRCUIT BREAKER, COORDINATE WITH EQUIPMENT
(16)	2"C W/ SCADA ALARM AND STATUS CONDUCTORS
(17)	THREE 1"C W/CONDUCTORS AS REQUIRED FOR CONTROL AND ALARM ANNUNCIATION
(18)	1"C W/CONDUCTORS AS REQUIRED FOR LOAD CONTROL
(19)	ULTRASONIC LEVEL CONTROLLER: HYDRORANGER 200
20	20A/2P CIRCUIT BREAKER FOR GENERATOR COOLANT HEATER
(21)	WET WELL WIZARD EQUIPMENT 25A/2P CIRCUIT BREAKER, 10 000 MIN. A.I.C. @ 208V
22	TO WET WELL WIZARD EQUIPMENT ³ /4"C. W/2ND.10, 1ND.10(G)
23	SURGE PROTECTION DEVICE CONNECTION TO GROUNDING DELTA: ³ / ₄ " SCH.80 PVC W/ 1 NO.10(G)
24)	2"C W/ ULTRASONIC TRANSDUCER CABLE, NO SPLICES PERMITTED CABLE SHALL BE CONTINUOUS FROM WET WELL TO CONTROL PANEL

ELECTRICAL NOTES:

- WFL-MVOLT-YKC62-PE-DDBXD.

1. THE EXACT LOCATION OF SERVICE SHALL BE COORDINATED IN THE FIELD WITH OTHER WORK ON THE PROJECT SITE AND THE ELECTRICAL UTILITY. PROVIDE AERIAL OR UNDERGROUND SERVICE AS REQUIRED BY THE UTILITY AND PROJECT REQUIREMENTS. COORDINATE WITH DOMINION ENERGY OR PALMETTO ELECTRIC AS APPLICABLE.

2. THE SERVICE METER SHALL BE PROVIDED IN ACCORDANCE WITH THE ELECTRICAL UTILITY STANDARDS. PROVIDE METER GROUND AND METER BASE AS REQUIRED.

3. FOR STATIONS WITH UNDERGROUND UTILITY POWER DISTRIBUTION, MOUNT THE AREA LIGHT ON A 25' CLASS 4 PRESSURE TREATED POLE WITH AN ALUMINUM POLE CAP SECURED WITH ALUMINUM NAILS. THE FLOOD LIGHT SHALL BE LITHONIA D-SERIES SIZE 2 LED FLOOD WITH YOKE MOUNT, SO CORD, AND INTEGRAL PHOTOCELL; CATALOG NO. DSXF2 LED-3-A530/40K-

4. 3" SCHEDULE 80 PVC STUBBED INTO WET WELL FOR PUMP CABLES. 5. 2" SCHEDULE 80 PVC STUBBED INTO WET WELL FOR FLOATS AND TRANSDUCER CABLES.

A ³′₄″C W∕ ONE CAT 6 CABLE (B) THREE 1"C W/ CONDUCTORS AS REQUIRED C ³⁄₄"C W/ 2 NO.14, 1 NO.14(G) (D) ³/₄"C W/ ONE CAT 6 CABLE, 8 NO.14, 1 NO.14(G)

	_								
DR		DESIGN CC	DRAWN CC	WATER AND SEWER RESILIENCY IMPROVEMENTS	REV NO	DATE DRWN CHKD BY BY	DESCRIPTION	HARTIN CON, CERTINA	the A CH
AW				LAKI	-	5/26/23 CC PM	ADDENDUM NO.1	ECC CAT	CENSES OF THE
		JOB # 17	17-1007.035	PS-4 ELECTRICAL SITE PLAN,	0			CHAT GINE MPAN CO4	H C ROFE
NU 2.1		ISSUE		NOTES & ONE-LINE DIAGRAM	n 4			ARO HAM ERI NY L 812	AR Sig
MB		DATE	04-2023		н го			INGC	INDUNE RUNN
324 844	AVE N. JACKSONVILLE BEACH, FLORIDA 32250 4-2400 S.C. COA # 5166 WWW 4WENG COM		1000	TOWN OF RIDGELAND	9			COB	
)			0/ 00-	RIDGELAND, SOUTH CAROLINA	7			11111	111111111

PHOTO-1 LOOKING INTO WET WELL

PHOTO-2 LOOKING INTO WET WELL

PHOTO-3 LOOKING INTO VALVE VAULT

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PHOTO-4 LOOKING EAST AT PS-5 FROM DRIVEWAY

<u>PHOTO-7</u> LOOKING SOUTH AT WET WELL AND VALVE VAULT

PHOTO-5 LOOKING EAST AT PS-5

PHOTO-8 LOOKING NORTHWEST AT CONTROL PANEL

PHOTO-6 LOOKING NORTHEAST AT PUMP STATION

PHOTO-9

1				
	LEGEND	:		DESCRIPTION
	+ PVC EM IE PP NTS N/F R/W SSMH	SPOT ELEVATION POLYVINYL CHLORIDE PIPE ELECTRIC METER INVERT ELEVATION POWER POLE NOT TO SCALE NOW OR FORMERLY RIGHT OF WAY SANITARY SEWER MANHOLE	SF	DENOTES SILT FENCE DENOTES LIMITS OF DISTURBANCE FOR PS-5 (1140 SF) DENOTES EQUIPMENT AND STRUCTURE TO BE REMOVED AND/OR DEMOLISHED
	WM FFE	WATER METER FINISH FLOOR ELEVATION		I
	—— SAN ——			

PLOT DATE AND TIME: 6/1/2023 7:07:11 PM

DESCRIPTION

DENOTES EQUIPMENT AND STRUCTURE TO BE REMOVED AND/OR DEMOLISHED

1. ALL NECESSARY TEMPORARY BYPASS OPERATIONS SHALL BE IN PLACE AND OPERATIONAL PRIOR TO INITIATING DEMOLITION ACTIVITIES. 2. CONTRACTOR SHALL VERIFY ALL UTILITIES BEFORE INITIATING DEMOLITION AND CONSTRUCTION ACTIVITIES. NOTIFY TOWN OF RIDGELAND PROJECT REPRESENTATIVE AND ENGINEER OF RECORD IMMEDIATELY IF UTILITY CONFLICT MAY OCCUR.

3. CONTRACTOR SHALL COORDINATE WITH TOWN OF RIDGELAND PROJECT REPRESENTATIVE REGARDING EQUIPMENT TO BE RETAINED BY TOWN WHICH SHALL BE DELIVERED TO THE JIMMY MIXSON WRF AT 366 PREACHER STREET. UNLESS SO IDENTIFIED, ALL OTHER EQUIPMENT AND MATERIALS TO BE DEMOLISHED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF AT AN APPROVED DISPOSAL FACILITY.

4. PRIOR TO DEMOLITION OR REMOVAL OF STRUCTURES USED FOR WASTEWATER, ALL WASTEWATER AND SOLIDS SHALL BE REMOVED FROM THE STRUCTURE AND PROPERLY DISPOSED.

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1. ALL METALS INSIDE THE WET WELL INCLUDING BUT NOT LIMITED TO GUIDE RAILS, LIFTING CHAINS, NUTS, BOLTS, CABLE HOLDERS, PIPE SUPPORTS AND BRACES, ETC., TO BE 316 STAINLESS STEEL, UNLESS SPECIFICALLY NOTED OTHERWISE

2. AERATION SYSTEM: WET WELL WIZARD SYSTEM AS MANUFACTURED BY RELIANT WATER TECHNOLOGIES, NEW ORLEANS, LA. WWW.RELIANTWATER.US.COM SHALL BE INSTALLED IN WET WELL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. WET WELL WIZARD SYSTEM SHALL INCLUDE (1) WET WELL WIZARD, (1) 1.5 HP BLOWER, AND ALL NECESSARY ASSOCIATED EQUIPMENT

3. LEVEL MONITORING: INSTALL ULTRASONIC LEVEL MEASUREMENT SYSTEM IN ACCORDANCE WITH ELECTRICAL PLANS AND SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS. PROVIDE FOUR BACKUP POLYURETHANE ENCASED MERCURY FLOAT SWITCHES FOR PUMPS OFF, LEAD PUMP ON, LAG PUMP ON, AND HIGH WATER ALARM.

4. EMERGENCY PUMP OUT CONNECTION: PIPE SIZE FOR EMERGENCY PUMP OUT CONNECTION SHALL MATCH PUMP DISCHARGE PIPE SIZE IN WET WELL.

5. "SV" – STORAGE VOLUME: STORAGE VOLUME PER DESIGN ENGINEER OF RECORD AND SHALL BE DESIGNED FOR A MAXIMUM SIX (6) STARTS PER HOUR. 10 MINUTE CYCLE TIME. 6. MIN. WATER LEVEL: MINIMUM WATER LEVEL IN WET WELL SHALL BE 30" MINIMUM FOR PROPER OPERATION OF THE WET WELL WIZARD, SHALL COVER TOP OF PUMP MOTOR, OR SHALL BE GREATER IF RECOMMENDED BY PUMP MANUFACTURER.

7. SUBMERSIBLE SEWAGE PUMPS: a. PUMPS SHALL BE SULZER ABS PUMPS SUITABLE FOR SUBMERSIBLE SEWER SERVICE. PUMPS SHALL BE 230/460 VOLTS, 3 PHASE, 60 HERTZ MOTORS.

b. PUMP BASE ELBOW: BASE ELBOW TO BE FABRICATED BY PUMP MANUFACTURER. 8. FLOOD ZONE: DESIGN ENGINEER OF RECORD SHALL PROVIDE INFORMATION ON THE FLOOD ZONE OF THE PUMP STATION SITE AND SHALL PROVIDE VERIFICATION THAT THE TOP OF THE WET WELL IS ABOVE THE 100 YEAR FLOOD ELEVATION AND THAT THE BOTTOM OF THE CONTROL PANELS, GENERATOR RECEPTACLE AND GENERATOR SLAB AREA ALL ABOVE THE 100 YEAR FLOOD ELEVATION + 2 FEET OR THE 500 YEAR FLOOD ELEVATION, WHICHEVER IS

9. PS-5 PROJECT SITE LOCATED IN ZONE X AREA OF MINIMAL FLOODING (NO ESTABLISHED FLOOD ELEVATION) PER FEMA FIRM MAP NO. 45053C0305D PANEL 305 OF 575 OCTOBER 18, 2019. 10. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ELEVATIONS AND DIMENSIONS CALLED OUT ON THIS PLAN SET FOR THE PUMP STATION PRIOR TO ORDERING OF ANY MATERIALS OR COMPONENTS OF THE PUMP STATION. ANY DEVIATION OF THE LAYOUTS INDICTED ON THIS PLAN MUST BE COMMUNICATED TO THE TOWN AND ENGINEER OF RECORD FOR FURTHER

11. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY STABILIZATION FOR DEMOLITION AND CONSTRUCTION AND SHALL HIRE A SPECIALTY PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA TO DESIGN THE STABILIZATION SYSTEM FOR EXCAVATION AND EVALUATE THE DRAWDOWN OF THE DEWATERING OPERATIONS DURING CONSTRUCTION IN ORDER TO PROTECT THE EXISTING PS-6 STRUCTURES. DESIGN AND EVALUATION SHALL BE SIGNED AND SEALED AND SUBMITTED TO THE TOWN OF RIDGELAND AND ENGINEER OF

12. IF THE CONTRACTOR ENCOUNTERS GROUNDWATER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILIZING DEWATERING SYSTEM(S) TO REMOVE WATER FROM THE EXCAVATIONS. PRIOR TO BEGINNING ANY DEWATERING OPERATIONS, THE CONTRACTOR SHALL PREPARE A DEWATERING PLAN FOR APPROVAL AND SHALL SECURE AN SCDHEC NPDES GENERIC PERMIT WHICH COVERS STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND DEWATERING OF NON-CONTAMINATED GROUNDWATER. 13. PIMP STATION SITE SHALL HAVE CONCRETE SLAB AROUND WET WELL VALVE VAULT AND PANEL AREAS AS NOTED. PROVIDE 1/2" EXPANSION JOINT MATERIAL BETWEEN WET WELL AND SLAB AND VALVE VAULT AND SLAB. CONCRETE SLAB SHALL BE 4000 PSI CONCRETE WITH REINFORCEMENT AS PER DRAWINGS.

14. RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO PRE CONSTRUCTION CONDITION. HYDROSEED AND MULCH ALL UNPAVED AREAS OUTSIDE OF FENCING. REFERENCE DRAWING C3.3 FOR RESTORATION REQUIREMENTS INSIDE PUMP STATION FENCING.

*PUMP STATION: Town of Ridgeland PS-5
*LOCATION: Health Complex off Grays Highway (Hwy 278)
*PUMP MANUFACTURER: Sulzer
*DESIGN CONDITION: 25 GPM @ 23FT TDH
*MODEL#:PIRANHA S20/2D 5-2/3 Inch Imp
SERIAL#:
HORSEPOWER: 2.41 Hp
VOLTAGE:
DATE INSTALLED:
*ENGINEER: Four Waters Engineering, Inc.
CONTRACTOR:
*INFORMATION REQUIRED ON CONSTRUCTION PLANS.
REMAINING INFORMATION REQUIRES ASBUILT

PROPANE GAS PIPING ABOVE GROUND L BE SCHEDULE 40 BLACK STEEL PIPE H THREADED JOINTS. ALL WORK AND RIALS ON THE GAS SYSTEM SHALL PLY WITH THE "INTERNATIONAL CODE". PAINT ALL EXPOSED GAS PIPING H RUST INHIBITING PRIMER AND 1 COAT DIL BASED YELLOW ENAMEL PAINT.
CFH AT 11 INCH WC OUTLET PRESSURE.
PANE GAS LINE U/G BY CONTRACTOR, Rdinate with propane company.
GAS DOWN TO UNDERGROUND, UNDERGROUND ING SHALL BE SDR 11 POLYETHLYLENE PIPE FITTINGS.
GAS UP TO GENERATOR. PROVIDE PLUG /E, UNION AND DRIPLEG AT CONNECTION. RDINATE EXACT LOCATION OF CONNECTION I GENERATOR.
/IDE A CONCRETE PAD FOR THE PROPANE TANK, THICK, 24"WIDER AND 24" LONGER THAN THE PANE TANK, REFER TO DETAIL 1/EO.1 FOR STRUCTION REQUIREMENTS,
/IDE 2" SCH.80 PVC RISER AT TANK MID-POINT, END TO WITHIN 5' OF GENERATOR. CONDUIT L BE 30" BELOW FINISH GRADE, MINIMUM. /IDE DETECTABLE PLASTIC WARNING TAPE 12" DW FINISH GRADE.
/IDE STEEL PIPE BOLLARDS IN FRONT OF THE PANE TANK, 36" ON CENTER, SEE DETAIL THIS ET, BOLLARDS SHALL EXTEND BEYOND THE END THE PROPANE TANK,
D COORDINATE INLET LOCATION ON GENERATOR THE REGULATOR WITH THE PROPANE PROVIDER. REGULATOR SHALL NOT BE WITHIN 5' OF THE RATOR.

$\mathbf{\dot{\mathbf{U}}}$	
(1 A)	1 ¹ / ₄ "C W/ 4 NO.3, 1 NO.8(G)
2	80A/3P/4X SS ENCLOSURE UL SERVICE LABEL, POST FAULT CURRENT AVAILABLE & DATE CALCULATE 10 000 MIN A.I.C. @ 208V
3	125A/4P 4X STAINLESS STEEL AUTOMATIC TRANSFER SWITCH MOUNTED ON EQUIPMENT FRAME
4	³ /4" SCH.80 PVC W/1NO.6 GROUNDING ELECTRODE CONDUCTOR
5	2"C.W/3NO.12, 1 NO.12(G) 4NO.12(CNTLS)
6	SEALING HUB, C-H TYPE ES, NOTE G6
7	³ / ₄ "C W/2NO.12, 1NO.12(G)
8	20A/3P MOTOR BREAKER 10 000 MIN, A.I.C. @ 208V
9	20A/1P CIRCUIT BREAKER, 10 000 MIN. A.I.C. @ 120V
10	³ / ₄ "C W/4NO.12, 1NO.12(G) FOR FLOATS
(11)	3ND.10, 1ND.10(G) Shall Not Exceed 18" IN LENGTH
(12)	NEMA SIZE O FVNR STARTER WITH SOLID STATE OVERLOAD PROTECTION
(13)	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH POWER BLOCKS AND TERMINAL STRIPS AS REQUIRED, NOTE G10
(14)	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH TERMINAL STRIPS AS REQUIRED, NOTE G11
(15)	30A/3P 10 000 MIN A.I.C. @ 208V SURGE PROTECTION DEVICE CIRCUIT BREAKER, COORDINATE WITH EQUIPMENT
(16)	2"C W/ SCADA ALARM AND STATUS CONDUCTORS
(17)	THREE 1"C W/CONDUCTORS AS REQUIRED FOR CONTROL AND ALARM ANNUNCIATION
(18)	1"C W/CONDUCTORS AS REQUIRED FOR LOAD CONTROL
(19)	ULTRASONIC LEVEL CONTROLLER: HYDRORANGER 200
20	20A/2P CIRCUIT BREAKER FOR GENERATOR COOLANT HEATER
21)	10000 MIN. A.I.C. @ 208V WET WELL WIZARD BREAKER 25A/2P
22	³ /4" C W/2ND.10, 1ND.10(G)
23	SURGE PROTECTION DEVICE CONNECTION TO GROUNDING DELTA: 3/4" SCH.80 PVC W/ 1 NO.10(G)
24	2"C W/ ULTRASONIC TRANSDUCER CABLE. NO SPLICE PERMITTED CABLE SHALL BE CONTINUOUS FROM WET WELL TO CONTROL PANEL

ELECTRICAL NOTES:

E:\Rıdgeland Well No.2 Rehab - 21010.01\CADD\E3.1.dgn

VICINITY MAP

N.T.S.

DRAWING NUMBER

E3.1

~	<u>'ECIAL NOTE:</u> ORIZONTAL DATUM IS NAD 83 SOUTH CAROLINA STATE PLANE COORDINATES ERTICAL DATUM IN NAVD 88 EE NOTE #7 BELOW		PREPARED FOR: FC	UR WATE
^S <u>NO</u> 1.	EE NOTE #7 BELOW <u>TES:</u> I HEREBY STATE THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE SURVEY SHOWN HEREIN WAS MADE IN ACCORDANCE WITH THE		ENGINEERING & TO	WN OF RI
	REQUIREMENTS OF THE MINIMUM STANDARDS MANUAL FOR THE PRACTICE OF LAND SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS "A" SURVEY AS SPECIFIED THEREIN; ALSO THERE ARE NO OBVIOUS, APPARENT OR VISIBLE ENCROACHMENTS OR PROJECTIONS OTHER THAN SHOWN.		ADDRESS: #135 COF PARENT TAX PARCE	RRECTION
2.	UNDERGROUND UTILITIES NOT LOCATED EXCEPT AS SHOWN AND ARE APPROXIMATE. SURVEYING CONSULTANTS DOES NOT CERTIFY TO THE EXACT LOCATION OF ANY UNDERGROUND UTILITY.			
3.	NO SUBSURFACE OR ENVIRONMENTAL INVESTIGATION OR WETLAND SURVEYS WERE PERFORMED FOR THIS PLAT. THEREFORE THIS PLAT DOES NOT REFLECT THE EXISTENCE OR NONEXISTENCE OF WETLANDS, CONTAMINATION, OR OTHER CONDITIONS WHICH MAY AFFECT THIS PROPERTY.			
4.	SURVEYING CONSULTANTS CERTIFIES TO THE BOUNDARY, TOPOGRAPHIC AND ASBUILT INFORMATION PROVIDED HEREON AS OF THE DATE OF SURVEY. IF THIS DOCUMENT IS TO BE PROVIDED AS A BASE MAP FOR OTHERS, INFORMATION ADDED AFTER THE DATE OF THIS SURVEY IS NOT THE RESPONSIBILITY OF SURVEYING CONSULTANTS.			
5.	THIS SURVEY WAS CONDUCTED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE, THEREFORE THERE MAY BE OTHER EASEMENTS, RIGHT-OF-WAY, SETBACK LINES, AGREEMENTS, RESERVATIONS, RESTRICTIONS, OR OTHER SIMILAR MATTERS OF PUBLIC RECORD, NOT DEPICTED ON THIS SURVEY.			
6.	NO BOUNDARY LINES AND/OR ROAD RIGHT-OF-WAY LINES WERE NOT ESTABLISHED AS A PART OF THIS SURVEY.	_ N		
7.	THE HORIZNTAL DATUM SHOWN IS BASED ON NAD 83 SOUTH CAROLINA STATE PLANE COORDINATES. THE VERTICAL DATUM SHOWN IS BASED ON NAVD 88 DATUM. THE HORIZONTAL AND VERTICAL DATUM SHOWN WERE ESTABLISHED FROM THE SC-VRS SURVEY NETWORK.	±t‰.	PS6 9' DIAMETEI TOP = 35.64 IE 8"PVC=23 IE BOTTOM: NAVD 88 DA	R CONCRETE ' 3.97' =17.20' \TUM
	LEGEND:			
	+ 3 SPOT ELEVATION EM ELECTRIC METER IE INVERT ELEVATION		+ ²⁰ .	<u></u>
	LP LIGHT POLE NTS NOT TO SCALE SSMH SANITARY SEWER MANHOLE WS WATER SPIGOT		ACCESS HATCH	
	GIS NOTE			35.7
	FROM THE TOWN OF RIDGELAND GIS DATA, WHICH HAVE BEEN ADDED TO SUPPLEMENT SURVEY DATA.	٨	CONCRETE VALVE VAULT TOP = 35.70' IE BOTTOM=31.12'	
		بی .`	CIS EM GIS-EM -	
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	6" PS6 FORCEMAIN			
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	N:241400.89 E:2009378.76 CONTROL POINT NAIL WITH DISC	ŧ	DGE OF M	
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PLOT DATE AND TIME: 6/1/2023 7:07:38 PM

LOOKING INTO WET WELL

PHOTO-2 LOOKING INTO WET WELL

LOOKING INTO VALVE VAULT

PHOTO-4 LOOKING WEST TOWARDS PUMP STATION FROM CONCRETE PAD

PHOTO-7 LOOKING WEST AT FLOW METER TRANSMITTER BOX ADJACENT TO VALVE VAULT

PHOTO-6 LOOKING WEST TOWARDS PUMP STATION

PHOTO-5 LOOKING EAST TOWARDS INFLUENT SCREENING FROM WET WELL

<u>PHOTO-8</u> LOOKING NORTH AT PUMP STATION CONTROL PANEL

<u>PHOTO-9</u> LOOKING SOUTHEAST AT BACK OF PANEL RACK

PLOT DATE AND TIME: 6/1/2023 7:07:53 PM






DEMOLITION NOTES:

- 1. ALL NECESSARY TEMPORARY BYPASS OPERATIONS SHALL BE IN PLACE AND OPERATIONAL PRIOR TO INITIATING DEMOLITION ACTIVITIES.
- 2. CONTRACTOR SHALL VERIFY ALL UTILITIES BEFORE INITIATING DEMOLITION AND CONSTRUCTION ACTIVITIES. NOTIFY TOWN OF RIDGELAND PROJECT REPRESENTATIVE AND ENGINEER OF RECORD IMMEDIATELY IF UTILITY CONFLICT MAY OCCUR.
- 3. CONTRACTOR SHALL COORDINATE WITH TOWN OF RIDGELAND PROJECT REPRESENTATIVE REGARDING EQUIPMENT TO BE RETAINED BY TOWN WHICH SHALL BE DELIVERED TO THE JIMMY MIXSON WRF AT 366 PREACHER STREET. UNLESS SO IDENTIFIED, ALL OTHER EQIUPMENT AND MATERIALS TO BE DEMOLISHED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF AT AN APPROVED DISPOSAL FACILITY.
- 4. PRIOR TO DEMOLITION OR REMOVAL OF STRUCTURES USED FOR WASTEWATER, ALL WASTEWATER AND SOLIDS SHALL BE REMOVED FROM THE STRUCTURE AND PROPERLY DISPOSED.

DESCRIPTION



DENOTES EQUIPMENT AND STRUCTURE TO BE REMOVED AND/OR DEMOLISHED









GENERAL NOTES

1. ALL METALS INSIDE THE WET WELL INCLUDING BUT NOT LIMITED TO GUIDE RAILS, LIFTING CHAINS, NUTS, BOLTS, CABLE HOLDERS, PIPE SUPPORTS AND BRACES, ETC., TO BE 316 STAINLESS STEEL, UNLESS SPECIFICALLY NOTED OTHERWISE.

2. PUMP DISCHARGE PIPING AND FITTINGS: DISCHARGE PIPING AND FITTINGS FROM PUMP ELBOW THROUGH TO CHECK VALVE IN VALVE VAULT SHALL BE A MINIMUM 4" (UNLESS APPROVED OTHERWISE BY TOWN) AND SHALL BE EITHER:

 a FUSED PVC PIPE AND STAINLESS STEEL FITTINGS: PVC PIPE SHALL BE C900 DR18 AND SHALL BE FUSED AS ONE PIECE BETWEEN PUMP BASE ELBOW AND 90 DEGREE BEND IN WET WELL, AND FROM 90 DEGREE BEND IN WET WELL TO CHECK VALVE IN VALVE VAULT.
 90 DEGREE BEND IN WET WELL SHALL BE FLANGED 316 STAINLESS STEEL, SCH 40. PVC PIPING ENDS SHALL UTILIZE RESTRAINED FLANGE ADAPTER (MEGAFLANGE BY EBAA IRON OR TOWN APPROVED EQUAL) WITH 316 SS FASTENERS TO CONNECT TO PUMP BASE ELBOW, 90 DEGREE BEND, AND CHECK VALVE.

AERATION SYSTEM: WET WELL WIZARD SYSTEM AS MANUFACTURED BY RELIANT WATER TECHNOLOGIES, NEW ORLEANS, LA. WWW.RELIANTWATER.US.COM SHALL BE INSTALLED IN WET WELL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. WET WELL WIZARD SYSTEM SHALL INCLUDE (1) WET WELL WIZARD, (1) 1.5 HP BLOWER, AND ALL NECESSARY ASSOCIATED EQUIPMENT

4. VENT: PROVIDE 6"X6" OPENING THROUGH THE CONCRETE TOP OF THE WET WELL AND INSERT 8"X 8" X 1-1/2" THICK ALUMINUM GRATE VENT CONSTRUCTED OF 1-1/2" WIDE X 1/8" MATERIAL.

5. FITTINGS: ALL DUCTILE IRON FITTINGS SHALL BE EPOXY LINED. ALL BURIED FITTINGS SHALL BE RESTRAINED.

6. LEVEL MONITORING: INSTALL ULTRASONIC LEVEL MEASUREMENT SYSTEM IN ACCORDANCE WITH ELECTRICAL PLANS AND SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS. PROVIDE FOUR BACKUP POLYURETHANE ENCASED MERCURY FLOAT SWITCHES FOR PUMPS OFF, LEAD PUMP ON, LAG PUMP ON, AND HIGH WATER ALARM.

 WET WELL: PRECAST CONCRETE WET WELL SHALL MEET ASTM C-478 STANDARD. CONCRETE, REINFORCING STEEL, AND BUOYANCY DESIGN AND CALCULATIONS TO BE PREPARED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED WITH THE SHOP DRAWINGS.

8. WET WELL AND MANHOLES: ALL EXTERIOR JOINTS OF PRECAST CONCRETE WET WELL AND MANHOLES SHALL BE SEALED WITH A 18" WIDE RUBBERIZED ASPHALT MEMBRANE TAPE. EXTERIOR COATING OF BITUMINOUS COATING AS SPECIFIED IN ANSI SPECIFICATIONS A21.51 SHALL BE APPLIED TO WET WELL AND MANHOLES.

INTERIOR PROTECTIVE COATINGS: PROTECTIVE COATING SHALL BE APPLIED TO THE INTERIOR OF WET WELLS AND RECEIVING MANHOLES. COATING SYSTEM IN WET WELL SHALL BE APPLIED TO VERTICAL WALLS AND TOP, AT A MINIMUM. PROTECTIVE COATING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND SHALL BE APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND BY INSTALLER CERTIFIED BY COATING SYSTEM MANUFACTURER.

10. MIN. WATER LEVEL: MINIMUM WATER LEVEL IN WET WELL SHALL BE 30" MINIMUM FOR PROPER OPERATION OF THE WET WELL WIZARD, SHALL COVER TOP OF PUMP MOTOR, OR SHALL BE GREATER IF RECOMMENDED BY PUMP MANUFACTURER.

 "SV" – STORAGE VOLUME: STORAGE VOLUME PER DESIGN ENGINEER OF RECORD AND SHALL BE DESIGNED FOR A MAXIMUM SIX (6) STARTS PER HOUR, 10 MINUTE CYCLE TIME.
 SUBMERSIBLE SEWAGE PUMPS:

a PUMPS SHALL BE SULZER ABS PUMPS SUITABLE FOR SUBMERSIBLE SEWER SERVICE. PUMPS SHALL BE 230/460 VOLTS, 3 PHASE, 60 HERTZ MOTORS.

b PUMP BASE ELBOW: BASE ELBOW TO BE FABRICATED BY PUMP MANUFACTURER.
13. FLOOD ZONE: DESIGN ENGINEER OF RECORD SHALL PROVIDE INFORMATION ON THE FLOOD ZONE OF THE PUMP STATION SITE AND SHALL PROVIDE VERIFICATION THAT THE TOP OF THE WET WELL IS ABOVE THE 100 YEAR FLOOD ELEVATION AND THAT THE BOTTOM OF THE CONTROL PANELS, GENERATOR RECEPTACLE AND GENERATOR SLAB AREA ALL ABOVE THE 100 YEAR FLOOD ELEVATION + 2 FEET OR THE 500 YEAR FLOOD ELEVATION, WHICHEVER IS GREATER.

14. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ELEVATIONS AND DIMENSIONS CALLED OUT ON THIS PLAN SET FOR THE PUMP STATION PRIOR TO ORDERING OF ANY MATERIALS OR COMPONENTS OF THE PUMP STATION. ANY DEVIATION OF THE LAYOUTS INDICTED ON THIS PLAN MUST BE COMMUNICATED TO THE TOWN AND ENGINEER OF RECORD FOR FURTHER DIRECTION.

15. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY STABILIZATION FOR DEMOLITION AND CONSTRUCTION AND SHALL HIRE A SPECIALTY PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA TO DESIGN THE STABILIZATION SYSTEM FOR EXCAVATION AND EVALUATE THE DRAWDOWN OF THE DEWATERING OPERATIONS DURING CONSTRUCTION IN ORDER TO PROTECT THE EXISTING PS-6 STRUCTURES. DESIGN AND EVALUATION SHALL BE SIGNED AND SEALED AND SUBMITTED TO THE TOWN OF RIDGELAND AND ENGINEER OF RECORD.

16. IF THE CONTRACTOR ENCOUNTERS GROUNDWATER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILIZING DEWATERING SYSTEM(S) TO REMOVE WATER FROM THE EXCAVATIONS. PRIOR TO BEGINNING ANY DEWATERING OPERATIONS, THE CONTRACTOR SHALL PREPARE A DEWATERING PLAN FOR APPROVAL AND SHALL SECURE AN SCDHEC NPDES GENERIC PERMIT WHICH COVERS STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND DEWATERING OF NON-CONTAMINATED GROUNDWATER.

17. PS-6 SITE LOCATED IN ZONE X AREA OF MINIMAL FLOODING (NO ESTABLISHED FLOOD ELEVATION), PER NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP PANEL 305 OF 575 JASPER COUNTY, SOUTH CAROLINA AND INCORPORATED AREAS NUMBER 45053 PANEL 0305 SUFFIX D.

18. RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO PRE-CONSTRUCTION CONDITION. HYDRASEED AND MULCH ALL UNPAVED AREAS OUTSIDE OF FENCING. INSIDE OF PUMP STATION FENCING PROVIDE 2" OF #57 STONE.



*PUMP STATION: TOWN OF RIDGELAND PS-6
*LOCATION: RIDGELAND CORRECTIONAL INSTITUTE
*PUMP MANUFACTURER: SULZER
*DESIGNLOW 350 GPM @ 88FT TDH
*MODEL#: XFP100G CB1 10" IMP
SERIAL#:
HORSEPOWER: 20.1 HP
VOLTAGE:
DATE INSTALLED:
*ENGINEER: FOUR WATERS ENGINEERING, INC.
CONTRACTOR:
*INFORMATION REQUIRED ON CONSTRUCTION PLANS.
REMAINING INFORMATION REQUIRES ASBUILT



C4.4





PROPANE FUEL NOTES:

- P1 ALL PROPANE GAS PIPING ABOVE GROUND SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH THREADED JOINTS. ALL WORK AND MATERIALS ON THE GAS SYSTEM SHALL COMPLY WITH THE "INTERNATIONAL GAS CODE". PAINT ALL EXPOSED GAS PIPING WITH RUST INHIBITING PRIMER AND 1 COAT OF OIL BASED YELLOW ENAMEL PAINT.
- (P2) PROPANE GAS PRESSURE REGULATOR SIZED FOR 410 CFH AT 11 INCH WC OUTLET PRESSURE.
- (P3) PROPANE GAS LINE U/G BY CONTRACTOR, COORDINATE WITH PROPANE COMPANY.
- (P4) 3" GAS DOWN TO UNDERGROUND, UNDERGROUND PIPING SHALL BE SDR 11 POLYETHLYLENE PIPE AND FITTINGS.
- P5 3" GAS UP TO GENERATOR. PROVIDE PLUG VALVE, UNION AND DRIPLEG AT CONNECTION, COORDINATE EXACT LOCATION OF CONNECTION WITH GENERATOR.
- (P6) PROVIDE A CONCRETE PAD FOR THE PROPANE TANK, 12" THICK, 24"WIDER AND 24" LONGER THAN THE PROPANE TANK, REFER TO DETAIL 1/E0.1 FOR CONSTRUCTION REQUIREMENTS,
- (P7) PROVIDE 2" SCH.80 PVC RISER AT TANK MID-POI EXTEND TO WITHIN 5' OF GENERATOR. CONDUIT SHALL BE 30" BELOW FINISH GRADE, MINIMUM, PROVIDE DETECTABLE PLASTIC WARNING TAPE 12" BELOW FINISH GRADE.
- (P8) PROVIDE STEEL PIPE BOLLARDS IN FRONT OF THE PROPANE TANK, 36" ON CENTER, SEE DETAIL THIS SHEET, BOLLARDS SHALL EXTEND BEYOND THE END OF THE PROPANE TANK.
- (P9) FIELD COORDINATE INLET LOCATION ON GENERATO AND THE REGULATOR WITH THE PROPANE PROVIDER THE REGULATOR SHALL NOT BE WITHIN 5' OF THE GENERATOR.

ELECTRICAL NOTES:

- 1. THE EXACT LOCATION OF SERVICE SF ON THE PROJECT SITE AND THE ELEC BY THE UTILITY AND PROJECT REQUI PARKS MOSS, CUSTOMER SERVICE ENG
- 2. THE SERVICE METER SHALL BE PROV STANDARDS. PROVIDE METER GROUND
- MOUNT THE AREA LIGHT ON THE 35' TO DETAIL 5/E0.1. THE FLOOD LIGH YOKE MOUNT, SO CORD, AND INTEGRA WFL-MVOLT-YKC62-PE-DDBXD. A. MOUNT THE FLOOD LIGHT TO THE B. PROVIDE A WEATHERPROOF SWITC 3.
- 4. 3" SCHEDULE 80 PVC STUBBED INTO
- 5. 2" SCHEDULE 80 PVC STUBBED INTO

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	3	125A SWIT ³ ⁄4″ S	/4P 4X <u>CH MOU</u> SCH.80	STAI NTED PVC V	NLES <u>ON E</u> V/1NC	S STE QUIPN D.6(G	LELA MENT)	U Í OMA F R A ME		IRAN	SFER	-	,, CERV		ATHAM NEERIN Any ll	GC)	
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SPECIAL NOTE

- THE MINIMUM STANDARDS MANUAL FOR THE PRACTICE OF LAND SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS "A" SURVEY AS SPECIFIED THEREIN; ALSO THERE ARE NO OBVIOUS, APPARENT OR VISIBLE ENCROACHMENTS OR PROJECTIONS OTHER THAN SHOWN.
- SURVEYING CONSULTANTS DOES NOT CERTIFY TO THE EXACT LOCATION OF ANY UNDERGROUND UTILITY.
- PERFORMED FOR THIS PLAT. THEREFORE THIS PLAT DOES NOT REFLECT THE WHICH MAY AFFECT THIS PROPERTY.
- INFORMATION PROVIDED HEREON AS OF THE DATE OF SURVEY. IF THIS DOCUMENT IS
- THEREFORE THERE MAY BE OTHER EASEMENTS, RIGHT-OF-WAY, SETBACK LINES, RECORD, NOT DEPICTED ON THIS SURVEY.
- TAKEN FROM REFERENCE PLAT AND SHOULD BE CONSIDERED APPROXIAMTE. A
- COORDINATES. THE VERTICAL DATUM SHOWN IS BASED ON NAVD 88 DATUM. THE HORIZONTAL AND VERTICAL DATUM SHOWN WERE ESTABLISHED FROM THE SC-VRS



PLOT DATE AND TIME: 6/1/2023 7:08:31 PM









LOOKING DOWN INTO VALVE VAULT

PLOT DATE AND TIME: 6/1/2023 7:08:33 PM

G5.2



PHOTO-4 LOOKING NORTHEAST AT PUMP STATION SITE



PHOTO-7 DISCHARGE FORCEMAIN BYPASS CONNECTION



PHOTO-5 LOOKING SOUTHEAST ACROSS WETWELL



PHOTO-8 LOOKING NORTHWEST ACROSS VALVE VAULT







LOOKING NORTHWEST ALONG BACK OF PANEL RACK

PLOT DATE AND TIME: 6/1/2023 7:08:45 PM



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PLOT DATE AND TIME: 6/1/2023 7:09:06 PM





DENOTES EQUIPI REMOVED AND/O

DEMOLITION NOTES:

- PLACE AND OPERATIONAL PRIOR TO INITIATING DEMOLITION ACTIVITIES.
- RIDGELAND PROJECT REPRESENTATIVE AND ENGINEER OF
- CONTRACTOR SHALL COORDINATE WITH TOWN OF RIDGELAND PROJECT REPRESENTATIVE REGARDING EQUIPMENT TO BE
- APPROVED DISPOSAL FACILITY. PRIOR TO DEMOLITION OR REMOVAL OF STRUCTURES USED FOR
- FROM THE STRUCTURE AND PROPERLY DISPOSED.



WASTEWATER, ALL WASTEWATER AND SOLIDS SHALL BE REMOVED







PLOT DATE AND TIME: 6/1/2023 7:09:20 PM



ALL METALS INSIDE THE WET WELL INCLUDING BUT NOT LIMITED TO GUIDE RAILS, LIFTING CHAINS, NUTS, BOLTS, CABLE HOLDERS, PIPE SUPPORTS AND BRACES, ETC., TO BE 316 STAINLESS STEEL, UNLESS SPECIFICALLY NOTED OTHERWISE.

2. PUMP DISCHARGE PIPING AND FITTINGS: DISCHARGE PIPING AND FITTINGS FROM PUMP ELBOW THROUGH TO CHECK VALVE IN VALVE VAULT SHALL BE A MINIMUM 4" (UNLESS APPROVED OTHERWISE BY TOWN) AND SHALL BE:

a. FUSED PVC PIPE AND STAINLESS STEEL FITTINGS: PVC PIPE SHALL BE C900 DR18 AND SHALL BE FUSED AS ONE PIECE BETWEEN PUMP BASE ELBOW AND 90 DEGREE BEND IN WET WELL, AND FROM 90 DEGREE BEND IN WET WELL TO CHECK VALVE IN VALVE VAULT. 90 DEGREE BEND IN WET WELL SHALL BE FLANGED 316 STAINLESS STEEL, SCH 40. PVC PIPING ENDS SHALL UTILIZE RESTRAINED FLANGE ADAPTER (MEGAFLANGE BY EBAA IRON OR TOWN APPROVED EQUAL) WITH 316 SS FASTENERS TO CONNECT TO PUMP BASE ELBOW, 90 DEGREE BEND, AND CHECK VALVE

AERATION SYSTEM: WET WELL WIZARD SYSTEM AS MANUFACTURED BY RELIANT WATER TECHNOLOGIES, NEW ORLEANS, LA. WWW.RELIANTWATER.US.COM SHALL BE INSTALLED IN WET WELL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. WET WELL WIZARD SYSTEM SHALL INCLUDE (1) WET WELL WIZARD, (1) 1.5 HP BLOWER AND ALL NECESSARY ASSOCIATED EQUIPMENT.

4. VENT: PROVIDE 6"X6" OPENING THROUGH THE CONCRETE TOP OF THE WET WELL AND INSERT 8"X 8" X 1-1/2" THICK ALUMINUM GRATE VENT CONSTRUCTED OF 1-1/2" WIDE X 1/8"

5. FITTINGS: ALL DUCTILE IRON FITTINGS SHALL BE EPOXY LINED. ALL BURIED FITTINGS SHALL BE RESTRAINED.

6. LEVEL MONITORING: INSTALL ULTRASONIC LEVEL MEASUREMENT SYSTEM IN ACCORDANCE WITH ELECTRICAL PLANS AND SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS. PROVIDE FOUR BACKUP POLYURETHANE ENCASED MERCURY FLOAT SWITCHES FOR PUMPS OFF, LEAD PUMP ON, LAG PUMP ON, AND HIGH WATER ALARM.

7. INTERIOR PROTECTIVE COATINGS: PROTECTIVE COATING SHALL BE APPLIED TO THE INTERIOR OF WET WELLS AND RECEIVING MANHOLES. COATING SYSTEM IN WET WELL SHALL BE APPLIED TO VERTICAL WALLS AND TOP, AT A MINIMUM. PROTECTIVE COATING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND SHALL BE APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND BY INSTALLER CERTIFIED BY COATING SYSTEM MANUFACTURER.

8. EMERGENCY PUMP OUT CONNECTION PIPE SIZE FOR EMERGENCY PUMP OUT CONNECTION SHALL MATCH PUMP DISCHARGE PIPE SIZE IN WET WELL.

9. MIN. WATER LEVEL: MINIMUM WATER LEVEL IN WET WELL SHALL BE 30" MINIMUM FOR PROPER OPERATION OF THE WET WELL WIZARD, SHALL COVER TOP OF PUMP MOTOR, OR SHALL BE GREATER IF RECOMMENDED BY PUMP MANUFACTURER

10. FLOOD ZONE: DESIGN ENGINEER OF RECORD SHALL PROVIDE INFORMATION ON THE FLOOD ZONE OF THE PUMP STATION SITE AND SHALL PROVIDE VERIFICATION THAT THE TOP OF THE WET WELL IS ABOVE THE 100 YEAR FLOOD ELEVATION AND THAT THE BOTTOM OF THE CONTROL PANELS, GENERATOR RECEPTACLE AND GENERATOR SLAB AREA ALL ABOVE THE 100 YEAR FLOOD ELEVATION + 2 FEET OR THE 500 YEAR FLOOD ELEVATION, WHICHEVER IS GREATER.

11. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ELEVATIONS AND DIMENSIONS CALLED OUT ON THIS PLAN SET FOR THE PUMP STATION PRIOR TO ORDERING OF ANY MATERIALS OR COMPONENTS OF THE PUMP STATION. ANY DEVIATION OF THE LAYOUTS INDICTED ON THIS PLAN MUST BE COMMUNICATED TO THE TOWN AND ENGINEER OF RECORD FOR FURTHER DIRECTION.

12. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY STABILIZATION FOR DEMOLITION AND CONSTRUCTION AND SHALL HIRE A SPECIALTY PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA TO DESIGN THE STABILIZATION SYSTEM FOR EXCAVATION AND EVALUATE THE DRAWDOWN OF THE DEWATERING OPERATIONS DURING CONSTRUCTION IN ORDER TO PROTECT THE EXISTING PS-8 STRUCTURES. DESIGN AND EVALUATION SHALL BE SIGNED AND SEALED AND SUBMITTED TO THE TOWN OF RIDGELAND AND ENGINEER OF

13. IF THE CONTRACTOR ENCOUNTERS GROUNDWATER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILIZING DEWATERING SYSTEM(S) TO REMOVE WATER FROM THE EXCAVATIONS. PRIOR TO BEGINNING ANY DEWATERING OPERATIONS, THE CONTRACTOR SHALL PREPARE A DEWATERING PLAN FOR APPROVAL AND SHALL SECURE ANY NECESSARY SCDHEC

14. PS-8 SITE LOCATED IN ZONE X AREA OF MINIMAL FLOODING (NO ESTABLISHED FLOOD ELEVATION), PER NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP PANEL 305 OF 575 JASPER COUNTY, SOUTH CAROLINA AND INCORPORATED AREA MAP NUMBER 45053C0305D.

15. PUMP STATION SHALL HAVE CONCRETE SLABS AROUND WET WELL. VALVE VAULT AND PANEL AREAS AS NOTED. PROVIDE 1/2" EXPANSION JOINT MATERIAL BETWEEN WET WELL AND SLAB AND VALVE VAULT AND SLAB. CONCRETE SLAB SHALL BE 4000 PSI CONCRETE WITH REINFORCEMENT AS PER DETAILS

16. RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO PRE-CONSTRUCTION CONDITION. HYDRASEED AND MULCH ALL UNPAVED AREAS OUTSIDE OF FENCING. INSIDE OF PUMP STATION FENCING PROVIDE 2" OF #57 STONE.





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9-MAY-2Ø2 13:48 CCOBB

DUPL	EX PUMP STATION ONE LINE SCHEDULE
ITEM#	PS-8 17.1HP 460V 3PH 23.2FLA
	2"C W/ 4 NO.1
	2"C W/ 4 NO.1, 1 NO.6(G)
(1B)	2"C W/ 3 NO.1, 1 NO.6(G)
2	ENCLOSED BREAKER, 125A/3P/4X SS ENCLOSURE UL SERVICE LABEL, POST FAULT CURRENT AVAILABLE & DATE CALCULATED 18000 MIN A.I.C @ 480V
3	125A/4P 4X STAINLESS STEEL AUTOMATIC TRANSFER SWITCH MOUNTED ON EQUIPMENT FRAME
4	³ /4" SCH.80 PVC W/1ND.6(G) GROUNDING ELECTRODE CONDUCTOR
5	2"C.W/3NO.8, 1 NO.8(G) 4NO.12(CNTLS)
6	SEALING HUB, C-H TYPE ES, NOTE G6
7	³ / ₄ "C W/2NO.12, 1NO.12(G)
8	70A/3P MOTOR BREAKER 18 000 MIN. A.I.C. @ 480V
9	20A/1P CIRCUIT BREAKER, 10 000 MIN, A.I.C. @ 120V
10	³ / ₄ "C W/4NO.12, 1NO.12(G) FOR FLOATS
(11)	3NO.10, 1NO.10(G) SHALL NOT EXCEED 18" IN LENGTH
(12)	MOTOR CONTROLLER: REDUCED VOLTAGE SOLID STATE STARTER WITH SHORTING CONTACTOR FOR 17.1HP 460V 3PH 23.2FLA MOTOR
(13)	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH POWER BLOCKS AND TERMINAL STRIPS AS REQUIRED, NOTE G10
(14)	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH TERMINAL STRIPS AS REQUIRED, NOTE G11,G12
(15)	30A/3P SURGE PROTECTION DEVICE CIRCUIT BREAKER, COORDINATE WITH EQUIPMENT 18 000 MIN A.I.C. @ 480V
(16)	2"C W/ SCADA ALARM AND STATUS CONDUCTORS
(17)	THREE 1"C W/CONDUCTORS AS REQUIRED FOR CONTROL AND ALARM ANNUNCIATION
(18)	1"C W/CONDUCTORS AS REQUIRED FOR LOAD CONTROL
(19)	ULTRASONIC LEVEL CONTROLLER HYDRORANGER 200
20	20A/2P CIRCUIT BREAKER FOR GENERATOR COOLANT HEATER, 10000 MIN. A.I.C. @ 240 V
21	WET WELL WIZARD BREAKER 15A/2P 18 000 MIN. A.I.C. @ 480V
22	³ / ₄ "C W/2NO.10, 1NO.10(G)
23	SURGE PROTECTION DEVICE CONNECTION TO GROUNDING DELTA: ³ /4" SCH.80 PVC W/ 1 NO.10(G)
24	2"C W/LEVEL TRANSDUCER CABLE
25	20A/2P CIRCUIT BREAKER FOR EXTERNAL TRANSFORMER PRIMARY, 18000 MIN. A.I.C. @ 480V
26	7.5KVA NEMA 3X TRANSFORMER W/ STAINLESS STEEL ENCLOSURE FOR 480V SYSTEM CONTROL POWER & AUXILIARY LOADS
27)	40A/2P CIRCUIT BREAKER FOR EXTERNAL TRANSFORMER SECONDARY, 10000 MIN. A.I.C. @ 240V
	7

ELECTRICAL NOTES

- 1. THE EXACT LOCATION OF SE ON THE PROJECT SITE AND BY THE UTILITY AND PROJE PARKS MOSS, CUSTOMER SER
- 2. THE SERVICE METER SHALL STANDARDS. PROVIDE METER
- 3. MOUNT THE AREA LIGHT ON TO DETAIL 5/EO.1. THE FL YOKE MOUNT, SO CORD, AND WFL-MVOLT-YKC62-PE-DDBXC A. MOUNT THE FLOOD LIGH B. PROVIDE A WEATHERPRO
- 4. 3" SCHEDULE 80 PVC STUB
- 5. 2" SCHEDULE 80 PVC STUBE



S: ERVICE SHALL BE COORDINATED THE ELECTRICAL UTILITY. PE ECT REQUIREMENTS. COORDINAT RVICE ENGINEER 843-815-8808 BE PROVIDED IN ACCORDANCE R GROUND AND METER BASE AS THE 35' CLASS 4 PRESSURE T LOOD LIGHT SHALL BE LITHONI D INTEGRAL PHOTOCELL; CATAL D. HT TO THE TOP OF THE SERVIC OOF SWITCH ON THE POLE, 48' BED INTO WET WELL FOR PUMP BED INTO WET WELL FOR FLOAT	IN THE FIELD WITH OTHER WORK OVIDE AERIAL SERVICE AS REQUIRED E WITH DOMINION ENERGY: CONTACT WITH THE ELECTRICAL UTILITY REQUIRED. REATED SERVICE POLE, REFER A D-SERIES SIZE 2 LED FLOOD WITH OG NO. DSXF2 LED-3-A530/40K- E POLE BELOW THE SERVICE DROP RACK. ABOVE FINISH GRADE. CABLES. S AND TRANSDUCER CABLES.	CHARTER Son, CERTIN	No. 40028 2023 SBEVER CHATHAM ENGINEERII COMPANY LI COMPANY LI COMPANY LI COMPANY LI COMPANY LI COMPANY LI	ENGINESS THE TAX NOT TAX
		DESCRIPTION	ADDENDUM NO.1	
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SCADA PANEL PANEL C G G S G G S G G S G G S G G S G G S G G S G G S G G S G G S G G S G G S G G S S G S S G S S G S S G S S G S S G S S G S S G S S S S G S	RED	WATER AND SEWER RESILIENCY IMPROVEMENTS	PS-8 ELECTRICAL SITE PLAN, NOTES & ONE-LINE DIAGRAM	TOWN OF RIDGELAND RIDGELAND, SOUTH CAROLINA
3 SCADA RISE	R	DESIGN DRAWN CC LC	JOB # 17-1007:035 ISSUE 12-2022	DATE :
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PHOTO-1 LOOKING INTO WET WELL

PHOTO-2 LOOKING INTO WET WELL

PHOTO-3 LOOKING INTO VALVE VAULT



PLOT DATE AND TIME: 6/1/2023 7:09:43 PM



LOOKING NORTHWEST FROM PUMP STATION SITE ACROSS JUNCTION/RECEIVING MANHOLE





PHOTO-7 LOOKING WEST ACROSS WET WELL



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LOOKING WEST AT VALVE VAULT



<u>PHOTO-5</u> LOOKING SOUTHWEST INSIDE SITE



<u>PHOTO-8</u> LOOKING WEST AT PROPANE TANK

PHOTO-9 LOOKING WEST AT GENERATOR EQUIPMENT PANELS



LOOKING EAST AT PUMP STATION CONTROL PANEL



<u>PHOTO-12</u> LOOKING SOUTHEAST AT PUMP STATION SITE

PHOTO-6 LOOKING WEST AT SITE AND ACCESS ROAD









PLOT DATE AND TIME: 6/1/2023 7:10:07 PM





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PLOT DATE AND TIME: 6/1/2023 7:10:19 PM









C6.5

CAD FILE: R:\17-1007-035 PART-1\X\CDS\PS-9\C6.3 ETC.DWG



CCOBB

DUPL	EX PUMP STATION ONE LINE SCHEDULE
ITEM#	PS-9 23HP 460V 3PH 34FLA
	2"C W/ 4 NO.1/0
	2"C W/ 4 NO.1/O, 1 NO.6(G)
(1B)	2"C W/ 3 ND.1/O, 1 ND.6(G)
2	ENCLOSED BREAKER, 150A/3P/4X SS ENCLOSURE UL SERVICE LABEL, POST FAULT CURRENT AVAILABLE & DATE CALCULATED 18000 MIN A.I.C @ 480V
3	150A/4P 4X STAINLESS STEEL AUTOMATIC TRANSFER SWITCH MOUNTED ON EQUIPMENT FRAME
4	³ ⁄₄" SCH.80 PVC ₩/1NO.6(G) GROUNDING ELECTRODE CONDUCTOR
5	2"C.W/3NO.8, 1 NO.8(G) 4NO.12(CNTLS)
6	SEALING HUB, C-H TYPE ES, NOTE G6
7	³ / ₄ "C W/2NO.12, 1NO.12(G)
8	90A/3P MOTOR BREAKER 18 000 MIN. A.I.C. @ 480V
9	20A/1P CIRCUIT BREAKER, 10 000 MIN, A.I.C. @ 120V
10	³ / ₄ "C W/4NO.12, 1NO.12(G) FOR FLOATS
(11)	3NO.10, 1NO.10(G) SHALL NOT EXCEED 18" IN LENGTH
(12)	MOTOR CONTROLLER: REDUCED VOLTAGE SOLID STATE STARTER WITH SHORTING CONTACTOR FOR 23HP 460V 3PH 34FLA MOTOR
(13)	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH POWER BLOCKS AND TERMINAL STRIPS AS REQUIRED, NOTE G10
(14)	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH TERMINAL STRIPS AS REQUIRED, NOTE G11,G12
(15)	30A/3P SURGE PROTECTION DEVICE CIRCUIT BREAKER, COORDINATE WITH EQUIPMENT 18 000 MIN A.I.C. @ 480V
(16)	2"C W/ SCADA ALARM AND STATUS CONDUCTORS
(17)	THREE 1"C W/CONDUCTORS AS REQUIRED FOR CONTROL AND ALARM ANNUNCIATION
18	1"C W/CONDUCTORS AS REQUIRED FOR LOAD CONTROL
19	ULTRASONIC LEVEL CONTROLLER HYDRORANGER 200
20	20A/2P CIRCUIT BREAKER FOR GENERATOR COOLANT HEATER, 10000 MIN. A.I.C. @ 240 V
21	WET WELL WIZARD BREAKER 15A/2P 18 000 MIN. A.I.C. @ 480V
22	³ / ₄ "C W/2NO.10, 1NO.10(G)
23	SURGE PROTECTION DEVICE CONNECTION TO GROUNDING DELTA: 3/4" SCH.80 PVC W/ 1 NO.10(G)
24	2"C W/LEVEL TRANSDUCER CABLE
25	20A/2P CIRCUIT BREAKER FOR EXTERNAL TRANSFORMER PRIMARY, 18000 MIN. A.I.C. @ 480V
26	7.5KVA NEMA 3X TRANSFORMER W/ STAINLESS STEEL ENCLOSURE FOR 480V SYSTEM CONTROL POWER & AUXILIARY LOADS
27)	40A/2P CIRCUIT BREAKER FOR EXTERNAL TRANSFORMER SECONDARY, 10000 MIN. A.I.C. @ 240V
28	³ / ₄ "SCH.80 PVC W/ 1 NO.8(G)
(29)	1"C W/3ND.8, 1ND.10(G)



1. THE EXACT LOCATION OF SERVICE SHALL BE COORDINATED IN THE FIELD WITH OTHER WORK ON THE PROJECT SITE AND THE ELECTRICAL UTILITY. PROVIDE AERIAL SERVICE AS REQUIRED BY THE UTILITY AND PROJECT REQUIREMENTS. COORDINATE WITH DOMINION ENERGY: CONTACT PARKS MOSS, CUSTOMER SERVICE ENGINEER 843-815-8808

2. THE SERVICE METER SHALL BE PROVIDED IN ACCORDANCE WITH THE ELECTRICAL UTILITY STANDARDS. PROVIDE METER GROUND AND METER BASE AS REQUIRED.

3. MOUNT THE AREA LIGHT ON THE 35' CLASS 4 PRESSURE TREATED SERVICE POLE, REFER TO DETAIL 5/E0.1. THE FLOOD LIGHT SHALL BE LITHONIA D-SERIES SIZE 2 LED FLOOD WITH YOKE MOUNT, SO CORD, AND INTEGRAL PHOTOCELL; CATALOG NO. DSXF2 LED-3-A530/40K-WFL-MVOLT-YKC62-PE-DDBXD. A. MOUNT THE FLOOD LIGHT TO THE TOP OF THE SERVICE POLE BELOW THE SERVICE DROP RACK. B. PROVIDE A WEATHERPROOF SWITCH ON THE POLE, 48" ABOVE FINISH GRADE.

4. 3" SCHEDULE 80 PVC STUBBED INTO WET WELL FOR PUMP CABLES. 5. 2" SCHEDULE 80 PVC STUBBED INTO WET WELL FOR FLOATS AND TRANSDUCER CABLES.



(B) THREE 1"C W/ CONDUCTORS AS REQUIRED

- (C) ³/₄"C W/ 2 NO.14, 1 NO.14(G)
- (D) ${}^{3}{}_{4}$ C W/ ONE CAT 6 CABLE, 8 NO.14, 1 NO.14(G)







DRAWING NUMBER

E6.1



METAL VALVE VAULT WITH 8"± HIGH BRICK BORDER TOP OF LID = 22.20' IE BOTTOM=17.50'

SSMH-TOP=22.00' IE BOTTOM=17.76' (FULL OF WATER, PIPES NOT VISIBLE)

PS12 METAL & CONCRETE LID WITH 8"± HIGH BRICK BORDER TOP OF LID = 22.26' IE 8"PVC=15.39' IE BOTTOM=11.16' NAVD 88 DATUM

GRASS

LEGEND: + 22.0 SPOT ELEVATION HDPE HIGH DENSITY POLYETHALENE IE INVERT ELEVATION LP LIGHT POLE NTS NOT TO SCALE SSMH SANITARY SEWER MANHOLE WS WATER SPIGOT PP POWER POLE BOL BOLLARD ICV IRRIGATION CONTROL VALVE CO CLEANOUT

SPECIAL NOTE:

*HORIZONTAL DATUM IS NAD 83 SOUTH CAROLINA STATE PLANE COORDINATES *VERTICAL DATUM IN NAVD 88 *SEE NOTE #7 BELOW

NOTES:

- 1. I HEREBY STATE THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE SURVEY SHOWN HEREIN WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MINIMUM STANDARDS MANUAL FOR THE PRACTICE OF LAND SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS "A" SURVEY AS SPECIFIED THEREIN; ALSO THERE ARE NO OBVIOUS, APPARENT OR VISIBLE ENCROACHMENTS OR PROJECTIONS OTHER THAN SHOWN.
- 2. UNDERGROUND UTILITIES NOT LOCATED EXCEPT AS SHOWN AND ARE APPROXIMATE. SURVEYING CONSULTANTS DOES NOT CERTIFY TO THE EXACT LOCATION OF ANY UNDERGROUND UTILITY.
- 3. NO SUBSURFACE OR ENVIRONMENTAL INVESTIGATION OR WETLAND SURVEYS WERE PERFORMED FOR THIS PLAT. THEREFORE THIS PLAT DOES NOT REFLECT THE EXISTENCE OR NONEXISTENCE OF WETLANDS, CONTAMINATION, OR OTHER CONDITIONS WHICH MAY AFFECT THIS PROPERTY.
- 4. SURVEYING CONSULTANTS CERTIFIES TO THE BOUNDARY, TOPOGRAPHIC AND ASBUILT INFORMATION PROVIDED HEREON AS OF THE DATE OF SURVEY. IF THIS DOCUMENT IS TO BE PROVIDED AS A BASE MAP FOR OTHERS, INFORMATION ADDED AFTER THE DATE OF THIS SURVEY IS NOT THE RESPONSIBILITY OF SURVEYING CONSULTANTS.
- 5. THIS SURVEY WAS CONDUCTED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE, THEREFORE THERE MAY BE OTHER EASEMENTS, RIGHT-OF-WAY, SETBACK LINES, AGREEMENTS, RESERVATIONS, RESTRICTIONS, OR OTHER SIMILAR MATTERS OF PUBLIC RECORD, NOT DEPICTED ON THIS SURVEY.
- 6. NO BOUNDARY LINES AND/OR ROAD RIGHT-OF-WAY LINES WERE NOT ESTABLISHED AS A PART OF THIS SURVEY.
- 7. THE HORIZNTAL DATUM SHOWN IS BASED ON NAD 83 SOUTH CAROLINA STATE PLANE COORDINATES. THE VERTICAL DATUM SHOWN IS BASED ON NAVD 88 DATUM. THE HORIZONTAL AND VERTICAL DATUM SHOWN WERE ESTABLISHED FROM THE SC-VRS SURVEY NETWORK.

REFERENCE PLAT: 1) BOUNDARY SURVEY OF TAX MAP #062-00-08-002 & TAX MAP #062-00-08-001, TOWN OF RIDGELAND, JASPER COUNTY, SC, BY: THOMAS G. STANLEY, S.C.R.L.S. NO. 18269, DATED: 09/02/1999, RECORDED: P.B. 24, PAGE 86.

LAST EDITED BY: STEVE DUCHARME

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+22.º 121. ~22.5 GRASS INFLUENT CONCRETE PAD SCREENINGS WITH CONVEYOR TANK TO TANK TOP PAD EL.=23.0' GRAVEL -SSMH TOP=22.92' GRASS IE FLOWLINE=17.08' , INFLUENT PIPE IE=17.00' BOTTOM SCREEN CHANNEL IE=15.67' GRAVEL PANE _î^{?.} -WATER HOSE SPIGOT ACCESS HATCH CENTER OF LID N:241953.87 E:2008259.39 STM 15"HDPE A IE=22.19' CO-15"HDPE IE=22.26' N:241910.56 E:2008365.25 EDGE OF ASPHALT PAVING CONTROL POINT NAIL WITH DISC ELEV. = 24.76' 24.51 24,27 JASPER COUNTY SHERIFFS OFFICE CONTROL POINT NAIL WITH DISC ELEV. = 23.83' N:241859.56 E:2008249.32

XX



PLOT DATE AND TIME: 6/1/2023 7:10:37 PM













PHOTO-1 LOOKING INTO WET WELL

PHOTO-2 LOOKING INTO WET WELL

FESSION No. 21839 54A F THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ANGELA BRYAN, P.E. ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. WITH CARO FOUR WATERS ENGINEERING. INC. NO No. 5166 <u> 충 놂</u> | Μ AII Ш CONDITIONS R RESILIENCY STING Х Ш 2 $\overline{}$ PS DRAWI JMC DESIGN ABB JOB # ISSUE DATE S \mathbf{C} لسب ____ Чш \geq السابسا Z cs \bigcirc Z بين سليا DRAWING NUMBER

THCARO

LOOKING INTO VALVE VAULT

PLOT DATE AND TIME: 6/1/2023 7:10:38 PM

G7.2



PHOTO-4 LOOKING NORTH AT PUMP STATION SITE



<u> PHOTO-6</u> LOOKING NORTH AT SITE THROUGH DOUBLE GATES



<u>PHOTO-8</u> LOOKING NORTHWEST AT PUMP STATION AREA OF SITE



<u>PHOTO-5</u> LOOKING NORTH AT SCREENING AREA OF SITE



PHOTO-7 LOOKING EAST AT SCREENING AREA OF SITE



PHOTO-9 LOOKING NORTHWEST AT WET WELL





PHOTO-10 LOOKING SOUTH AT PUMP STATION CONTROL PANEL

PHOTO-11 LOOKING SOUTH TOWARD MAIN ROAD



CAD FILE: R:\17-1007-035 PART-1\X\CDS\PS-12\G7.3.DWG



PLOT DATE AND TIME: 6/1/2023 7:11:02 PM





	DESCRIPTION
\square	DENOTES EQUIPMENT AND STRUCTURE TO BE REMOVED AND/OR DEMOLISHED

DEMOLITION NOTES:

ALL NECESSARY TEMPORARY BYPASS OPERATIONS SHALL BE IN PLACE AND OPERATIONAL PRIOR TO INITIATING DEMOLITION ACTIVITIES.

CONTRACTOR SHALL VERIFY ALL UTILITIES BEFORE INITIATING DEMOLITION AND CONSTRUCTION ACTIVITIES. NOTIFY TOWN OF RIDGELAND PROJECT REPRESENTATIVE AND ENGINEER OF

RECORD IMMEDIATELY IF UTILITY CONFLICT MAY OCCUR. CONTRACTOR SHALL COORDINATE WITH TOWN OF RIDGELAND PROJECT REPRESENTATIVE REGARDING EQUIPMENT TO BE RETAINED BY TOWN WHICH SHALL BE DELIVERED TO THE JIMMY MIXSON WRF AT 366 PREACHER STREET. UNLESS SO IDENTIFIED, ALL OTHER EQIUPMENT AND MATERIALS TO BE DEMOLISHED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF AT AN APPROVED DISPOSAL FACILITY.

PRIOR TO DEMOLITION OR REMOVAL OF STRUCTURES USED FOR WASTEWATER, ALL WASTEWATER AND SOLIDS SHALL BE REMOVED FROM THE STRUCTURE AND PROPERLY DISPOSED.





	DESCRIPTION
— SF —	SILT FENCE
	DENOTES LIMITS OF DISTURBANCE FOR PS-12 (1758 SF)

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1. ALL METALS INSIDE THE WET WELL INCLUDING BUT NOT LIMITED TO GUIDE RAILS, LIFTING CHAINS, NUTS, BOLTS, CABLE HOLDERS, PIPE SUPPORTS AND BRACES, ETC., TO BE 316 STAINLESS STEEL, UNLESS SPECIFICALLY NOTED

2. PUMP DISCHARGE PIPING AND FITTINGS: DISCHARGE PIPING AND FITTINGS FROM PUMP ELBOW THROUGH TO CHECK VALVE IN VALVE VAULT SHALL BE A MINIMUM 4" (UNLESS APPROVED OTHERWISE BY TOWN) AND SHALL BE: a. FUSED PVC PIPE AND STAINLESS STEEL FITTINGS: PVC PIPE SHALL BE C900 DR18 AND SHALL BE FUSED AS ONE PIECE BETWEEN PUMP BASE ELBOW AND 90 DEGREE BEND IN WET WELL, AND FROM 90 DEGREE BEND IN WET WELL TO CHECK VALVE IN VALVE VAULT. 90 DEGREE BEND IN WET WELL SHALL BE FLANGED 316 STAINLESS STEEL, SCH 40. PVC PIPING ENDS SHALL UTILIZE RESTRAINED FLANGE ADAPTER (MEGAFLANGE BY EBAA IRON OR TOWN APPROVED EQUAL) WITH 316 SS FASTENERS TO CONNECT TO PUMP BASE ELBOW,

3. AERATION SYSTEM: WET WELL WIZARD SYSTEM AS MANUFACTURED BY RELIANT WATER TECHNOLOGIES, NEW ORLEANS, LA. WWW.RELIANTWATER.US.COM SHALL BE INSTALLED IN WET WELL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. WET WELL WIZARD SYSTEM SHALL INCLUDE (1) WET WELL WIZARD, (1) 1.5 HP

4. VENT: PROVIDE 6"X6" OPENING THROUGH THE CONCRETE TOP OF THE WET WELL AND INSERT 8"X 8" X 1-1/2" THICK ALUMINUM GRATE VENT CONSTRUCTED OF 1-1/2" WIDE X 1/8" MATERIAL

FITTINGS: ALL DUCTILE IRON FITTINGS SHALL BE EPOXY LINED. ALL BURIED FITTINGS SHALL BE RESTRAINED. 6. LEVEL MONITORING: INSTALL ULTRASONIC LEVEL MEASUREMENT SYSTEM IN ACCORDANCE WITH ELECTRICAL PLANS AND SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS. PROVIDE FOUR BACKUP POLYURETHANE ENCASED MERCURY FLOAT SWITCHES FOR PUMPS OFF, LEAD PUMP ON, LAG PUMP ON, AND HIGH WATER ALARM. 7. WET WELL: PRECAST CONCRETE WET WELL SHALL MEET ASTM C-478 STANDARD. CONCRETE, REINFORCING STEEL, AND BUOYANCY DESIGN AND CALCULATIONS TO BE PREPARED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED WITH THE SHOP DRAWINGS.

8. WET WELL AND MANHOLES: ALL EXTERIOR JOINTS OF PRECAST CONCRETE WET WELL AND MANHOLES SHALL BE SEALED WITH A 18" WIDE RUBBERIZED ASPHALT MEMBRANE TAPE. EXTERIOR COATING OF BITUMINOUS COATING AS SPECIFIED IN ANSI SPECIFICATIONS A21.51 SHALL BE APPLIED TO WET WELL AND MANHOLES. INTERIOR PROTECTIVE COATINGS: PROTECTIVE COATING SHALL BE APPLIED TO THE INTERIOR OF WET WELLS AND

RECEIVING MANHOLES. COATING SYSTEM IN WET WELL SHALL BE APPLIED TO VERTICAL WALLS AND TOP, AT A MINIMUM. PROTECTIVE COATING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND SHALL BE APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND BY INSTALLER CERTIFIED BY COATING SYSTEM

10. EMERGENCY PUMP OUT CONNECTION: PIPE SIZE FOR EMERGENCY PUMP OUT CONNECTION SHALL MATCH PUMP

11. MIN. WATER LEVEL: MINIMUM WATER LEVEL IN WET WELL SHALL BE 30" MINIMUM FOR PROPER OPERATION OF THE WET WELL WIZARD, SHALL COVER TOP OF PUMP MOTOR, OR SHALL BE GREATER IF RECOMMENDED BY PUMP

a PUMPS SHALL BE SULZER ABS PUMPS SUITABLE FOR SUBMERSIBLE SEWER SERVICE. PUMPS SHALL BE

b PUMP BASE ELBOW: BASE ELBOW TO BE FABRICATED BY PUMP MANUFACTURER. BASE ELBOW SHALL BE

13. FLOOD ZONE: DESIGN ENGINEER OF RECORD SHALL PROVIDE INFORMATION ON THE FLOOD ZONE OF THE PUMP STATION SITE AND SHALL PROVIDE VERIFICATION THAT THE TOP OF THE WET WELL IS ABOVE THE 100 YEAR FLOOD ELEVATION AND THAT THE BOTTOM OF THE CONTROL PANELS, GENERATOR RECEPTACLE AND GENERATOR SLAB AREA ALL ABOVE THE 100 YEAR FLOOD ELEVATION + 2 FEET OR THE 500 YEAR FLOOD ELEVATION, WHICHEVER IS

14. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ELEVATIONS AND DIMENSIONS CALLED OUT ON THIS PLAN SET FOR THE PUMP STATION PRIOR TO ORDERING OF ANY MATERIALS OR COMPONENTS OF THE PUMP STATION. ANY DEVIATION OF THE LAYOUTS INDICTED ON THIS PLAN MUST BE COMMUNICATED TO THE TOWN AND ENGINEER

15. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY STABILIZATION FOR DEMOLITION AND CONSTRUCTION AND SHALL HIRE A SPECIALTY PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA TO DESIGN THE STABILIZATION SYSTEM FOR EXCAVATION AND EVALUATE THE DRAWDOWN OF THE DEWATERING OPERATIONS DURING CONSTRUCTION IN ORDER TO PROTECT THE EXISTING PS-12 STRUCTURES. DESIGN AND EVALUATION SHALL BE SIGNED AND SEALED AND SUBMITTED TO THE TOWN OF RIDGELAND AND ENGINEER OF RECORD. 16. IF THE CONTRACTOR ENCOUNTERS GROUNDWATER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILIZING DEWATERING SYSTEM(S) TO REMOVE WATER FROM THE EXCAVATIONS. PRIOR TO BEGINNING ANY DEWATERING OPERATIONS. THE CONTRACTOR SHALL PREPARE A DEWATERING PLAN FOR APPROVAL AND SHALL SECURE ANY

17. PS-12 SITE LOCATED IN ZONE X AREA OF MINIMAL FLOODING (NO ESTABLISHED FLOOD ELEVATION), PER NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP PANEL 305 OF 575 JASPER COUNTY, SOUTH CAROLINA AND INCORPORATED AREAS MAP NUMBER 45053C0305D OCTOBER 18. 2019

18. PUMP STATION SITE SHALL HAVE CONCRETE SLAB AROUND WET WELL VALVE VAULT AND PANEL AREAS AS NOTED. PROVIDE 1/2" EXPANSION JOINT MATERIAL BETWEEN WET WELL AND SLAB AND VALVE VAULT AND SLAB.

19. RESTORE ALL ARES DISTURBED BY CONSTRUCTION TO PRE CONSTRUCTION CONDITION. HYDROSEED AND MULCH ALL UNPAVED AREAS OUTSIDE OF FENCING. REFERENCE DRAWING C7.3 FOR RESTORATION REQUIREMENTS

Έ	DROP	
1	PUMP	
S	HEET)	
	-	

*PUMP STATION: TOWN OF RIDGELAND PS-12
*LOCATION: 12008 N. JACOB SMART BLVD (JASPER COUNTY
SHERIFFS DEPARTMENT)
DESIGN CONDITION: 100 GPM @ 27 FT TDH
*PUMP MANUFACTURER: SULZER
*MODEL#: XFP80C CB1 8-1/3" Imp
SERIAL#:
HORSEPOWER: 2.68 HP
VOLTAGE:
DATE INSTALLED:
*ENGINEER: FOUR WATERS ENGINEERING INC.
CONTRACTOR:
*INFORMATION REQUIRED ON CONSTRUCTION PLANS.
REMAINING INFORMATION REQUIRES ASBUILT

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V DATE DWN CHK DESCRIPTION	5/23 SD AB GENERAL OVERALL UPDATES					
WATER AND SEWER RESILIENCY IMPROVEMENTS						RIDGELAND, SOUTH CAROLINA
DRAWN JMC		1/-100/	FEB	2023		
DESIGN		JOB#	ISSUE	DAIE		
	LUUN WAIENS				VE N. JAUNSONVILLE BEAUH, FLURIDA 32230 2400 S.C. COA # 5166 MMMM 4MIENC COM	

DRAWING NUMBER



DUPL	EX PUMP STATION ONE LINE SCHEDULE
ITEM#	PS-12 2.7HP 460V 3PH 4.2FLA
	1 ¹ /4"C W/ 4 ND.4
(1A)	1 ¹ /4"C W/ 4 NO.4, 1 NO.8(G)
(1B)	1 ¹ /₄"C W/ 3 NO.4, 1 NO.8(G)
2	ENCLOSED BREAKER, 60A/3P/4X SS ENCLOSURE UL SERVICE LABEL, POST FAULT CURRENT AVAILABLE & DATE CALCULATED 18000 MIN A.I.C @ 480V
3	70A/4P 4X STAINLESS STEEL AUTOMATIC TRANSFER SWITCH MOUNTED ON EQUIPMENT FRAME
4	³ /4" SCH.80 PVC W/1NO.6(G) Grounding electrode conductor
5	2"C.W/3NO.12, 1 NO.12(G) 4NO.12(CNTLS)
6	SEALING HUB, C-H TYPE ES, NOTE G6
7	³ / ₄ "C W/2NO.12, 1NO.12(G)
8	15A/3P MOTOR BREAKER 18 000 MIN. A.I.C. @ 480V
9	20A/1P CIRCUIT BREAKER, 10 000 MIN, A.I.C. @ 120V
10	³ / ₄ "C W/4NO.12, 1NO.12(G) FOR FLOATS
(11)	3NO.10, 1NO.10(G) SHALL NOT EXCEED 18" IN LENGTH
(12)	MOTOR CONTROLLER: FVNR NEMA SIZE O ACROSS-THE-LINE MAGNETIC STARTER W/SOLID STATE THERMAL OVERLOAD PROTECTION
(13)	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH POWER BLOCKS AND TERMINAL STRIPS AS REQUIRED, NOTE G10
(14)	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH TERMINAL STRIPS AS REQUIRED, NOTE G11,G12
(15)	30A/3P SURGE PROTECTION DEVICE CIRCUIT BREAKER, COORDINATE WITH EQUIPMENT 18 000 MIN A.I.C. @ 480V
(16)	2"C W/ SCADA ALARM AND STATUS CONDUCTORS
(17)	THREE 1"C W/CONDUCTORS AS REQUIRED FOR CONTROL AND ALARM ANNUNCIATION
(18)	1"C W/CONDUCTORS AS REQUIRED FOR LOAD CONTROL
(19)	ULTRASONIC LEVEL CONTROLLER HYDRORANGER 200
20	20A/2P CIRCUIT BREAKER FOR GENERATOR COOLANT HEATER, 10000 MIN. A.I.C. @ 240 V
(21)	WET WELL WIZARD BREAKER 15A/2P 18 000 MIN. A.I.C. @ 480V
22	³ / ₄ "C W/2ND.10, 1ND.10(G)
23	SURGE PROTECTION DEVICE CONNECTION TO GROUNDING DELTA: ³ /4" SCH.80 PVC W/ 1 NO.10(G)
24)	2"C W/LEVEL TRANSDUCER CABLE
25	20A/2P CIRCUIT BREAKER FOR EXTERNAL TRANSFORMER PRIMARY, 18000 MIN, A.I.C. @ 480V
26	7.5KVA NEMA 3X TRANSFORMER W/ STAINLESS STEEL ENCLOSURE FOR 480V SYSTEM CONTROL POWER & AUXILIARY LOADS
27	40A/2P CIRCUIT BREAKER FOR EXTERNAL TRANSFORME SECONDARY, 10000 MIN. A.I.C. @ 240V
28	³ ∕4"SCH.80 PVC W/ 1 NO.8(G)
-	

ELECTRICAL NOTES:

- 3.



1. THE EXACT LOCATION OF SERVICE SHALL BE COORDINATED IN THE FIELD WITH OTHER WORK ON THE PROJECT SITE AND THE ELECTRICAL UTILITY. PROVIDE AERIAL SERVICE AS REQUIRED BY THE UTILITY AND PROJECT REQUIREMENTS. COORDINATE WITH DOMINION ENERGY: CONTACT PARKS MOSS, CUSTOMER SERVICE ENGINEER 843-815-8808

TH CARC ANDE ESSION

No. 40028 26 May S BEVERLEY

WTH CAROL

CHATHAM ENGINEERING

뀤(COMPANY LLC)#

CO4812

2. THE SERVICE METER SHALL BE PROVIDED IN ACCORDANCE WITH THE ELECTRICAL UTILITY STANDARDS. PROVIDE METER GROUND AND METER BASE AS REQUIRED.

MOUNT THE AREA LIGHT ON THE 35' CLASS 4 PRESSURE TREATED SERVICE POLE, REFER TO DETAIL 5/E0.1. THE FLOOD LIGHT SHALL BE LITHONIA D-SERIES SIZE 2 LED FLOOD WITH YOKE MOUNT, SO CORD, AND INTEGRAL PHOTOCELL; CATALOG NO. DSXF2 LED-3-A530/40K-WFL-MVOLT-YKC62-PE-DDBXD. A. MOUNT THE FLOOD LIGHT TO THE TOP OF THE SERVICE POLE BELOW THE SERVICE DROP RACK. B. PROVIDE A WEATHERPROOF SWITCH ON THE POLE, 48" ABOVE FINISH GRADE. 4. 3" SCHEDULE 80 PVC STUBBED INTO WET WELL FOR PUMP CABLES.

5. 2" SCHEDULE 80 PVC STUBBED INTO WET WELL FOR FLOATS AND TRANSDUCER CABLES.





CAD FILE: R:\17-1007-035 PART-1\X\CDS\D8.1.DWG



NOT TO SCALE

	FENCE HEIGHT	UPRIGHT END & CORNER POSTS		LIN	
	NOM HT INCLUDING BARBED WIRE	B–1 BAR LENGTH	H—1 HEIGHT ABOVE GRADE	B–2 BAR LENGTH	
	7'-0" [2134MM]	13'-0" [3962MM]	7'-0 5/8" [2150MM]	11'-8" [2555MM]	



INSTALLATION



CARO' OFESSION





PVC PIPE RESTRAINT NOTES:

- RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
- 2. ASSUMPTIONS: PVC PIPE, SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE.
- COVER ON BOTTOM. PER THE DETAILS, Lu IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. LI IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
- SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN). SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
- SHALL BE COMPLETED PER THE MANUFACTURERS RECOMMENDATION, WHICH ONLY BE SNUG TIGHT. THE HOME MARKS ON THE PIPE SHOULD ALWAYS BE VISIBLE AT THE BELL RESULTING IN A SERVICE OUTAGE.

NOMINAL	HORIZONTAL BENDS				
PIPE SIZE (IN.)	90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	1 BE L	
4	21	9	5		
6	30	13	6		
8	38	16	8		
10	45	19	9		
12	53	22	11		
14	61	26	13		
16	66	28	14		
18	73	30	15		
20	79	33	16		
24	79	33	16		
30	93	39	19		
36	106	39	21		
42	117	49	24		
48	144	53	26		



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- PERPENDICULAR TO THE SURFACE OF THE ROADWAY.
- RETROREFLECTIVE SHEETING.
- ACCESSED ON THE DEPARTMENT'S WEB SITE AT: www.scdot.org

- DIRECTED BY THE DEPARTMENT.

- DIRECTED BY THE SPECIAL PROVISIONS AND/OR THE DEPARTMENT.
- TAPER OF THE SECOND CLOSURE.
- READ BOTH MESSAGES AT LEAST ONCE.
- STANDARD DRAWINGS, THE PLANS AND/OR THE ENGINEER.

CONSTRUCTION, LATEST EDITION.



PLOT DATE AND TIME: 6/1/2023 7:11:58 PM



SIGN PLACEMEN	NT AND	SPACIN	G INTER	VALS
SPEED LIMIT	a	b	с	d
35 mph OR LESS	50'	100'	200'	200'
40 mph TO 50 mph	75'	150'	350'	350'
55 mph OR GREATER	100'	200'	500'	500'

A. WORK LIMITS S INDICATED IN MOUNT ALL DETOUR A PAVED SHOULDER OR CURB & FROM THE NEAR THE SIGN ASSEMBLY. THE BOTTOM SIGN VE THE NEAR EDGE MAY BE REQUIRED SHT DISTANCE	REFERENCES	No. 21839 No. 21
AY. ARROW SIGNS HEETING. PORTABLE SIGN ID MOUNTED SIGN RP REPORT 350 LL APPROVED ODUCTS LIST FOR ACCESSED ON THE ACCESSED ON THE S OF CONCRETE RAIL AND SHALL EFLECTIVE SHEETING ALL BE OR AN APPROVED E MATERIALS ROL DEVICES IN APPROVED. ALL SIGN BLANKS, ARE FOR A SECONDARY AND SHALL REQUIRE TREET NAMES MAY TON OPERATIONS	WORK ZONE TRAFFIC CONTROL ENGINEER	REV Date DWN CHK BY DESCRIPTION 1 5/23 SD AB NEW DETAIL PAGE 2 1 1 5/23 SD AB 3 1 1 1 1 4 1 1 1 1 5 1 1 1 6 1 1 1 7 1 1 1
ION OPERATIONS ROL IS NOT DARD , THE PLANS, RAWING, INCLUDING TRAFFIC CONTROL CONTRACT LUMP LOCATION, ROUTE,	NO. 24242 NO. 24242	NATER AND SEWER RESILIENCY IMPROVEMENTS PART TART TEMPORARY TRAFFIC CONTROL DETAILS TOWN OF RIDGELAND
e e e e e f	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS OFFICE 955 PARK STREET ROOM 405 COLUMBIA, SC 29201 STANDARD DRAWING	EBS DESIGNDESIGN DRAWNEBS DB#JMCI N GJOB #I N GINGI N GING
LEGEND TYPE III BARRICADE (6 FEET) SINGLE POST SIGN ASSEMBLY DUAL POSTS SIGN ASSEMBLY	DETOUR SIGNING FOR SECONDARY ROUTES 610-610-00 EFFECTIVE LETTING DATE MAY 2008	The second stress of the secon

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PROJECT LIMIT AND LAND DISTURBANCE LIMITS SCALE 1" = 1200'

SCDHEC SEDIMENT AND EROSION CONTROL STANDARD NOTES

1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.

• WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE. • WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000.

8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS. 13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS, WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE:

15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).

16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED

- WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE
- CONTROL; WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS,
- CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS; • FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND
- MAINTENANCE; AND SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

PLANNED SEQUENCE OF OPERATIONS:

CLEARING AND GRUBBING OF AREAS NECESSARY FOR INSTALLATION OF SILT FENCE AND INLET PROTECTION PER CONSTRUCTION PLANS

- DEMOLITION OF EXISTING PUMP STATION STRUCTURES PER CONSTRUCTION PLANS SITE GRADING PER CONSTRUCTION PLANS
- INSTALLATION OF SEWER MAIN AND SEWER LATERALS PER CONSTRUCTION PLANS
- REPAVEMENT OF ROADWAY SURFACE AS PER CONSTRUCTION PLANS INSTALLATION OF PUMP STATION IMPROVEMENTS PER CONSTRUCTION PLANS

INSTALLATION OF HYDROSEEDING AND/OR SOD FOR PERMANENT STABILIZATION OF DISTURBED AREAS. MAINTAIN GRASS SURFACE.

9. REMOVE TEMPORARY SEDIMENT CONTROL FEATURES ONCE FINAL STABALIZATION IS OBTAINED.

PROJECT LIMITS NOTES:

PROJECT LIMITS DETERMINED AS EXTENT OF LAND DISTURBANCE OR PUMP STATION BOUNDARY,

PROJECT LIMIT AREAS:

APPROX 0.72 ACRES

LAND DISTURBANCE LIMITS BASED ON PROJECT IMPROVEMENTS AND CONSTRUCTION RELATED ITEMS

LAND DISTURBANCE AREAS: APPROX 0.621 ACRES



PLOT DATE AND TIME: 6/1/2023 7:12:08 PM

EC8.1





GE	INERAL NOTES	INSPECTION & MAINTENANCE
1.	Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber, or hardwood mulch. Straw, pine needle, and leaf mulch-filled sediment	 The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.
2.	The outer netting of the sediment tube should consist of	 Regular inspections of sediment tube inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces
	seamless, high-density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high-density	1/2-inch or more of precipitation.
3	polyethylene non-degradable material.	 Attention to sediment accumulations in front of the sediment tube is extremely important. Accumulated sediment should be continually monitored and removed when necessary
0.	24-inches. Sediment tunes with smaller diameters are prohibited when used as inlet protection.	 Remove accumulated sediment when it reaches 1/3 the height
4.	Curled excelsior wood, or natural coconut products that are	of the sediment tube. When a sump is installed in front of the inlet protection, sediment shall be removed when if fills
_	rolled up to create a sediment tube are not allowed.	approximately 1/3 the depth of the sump.
5.	Sediment tubes should be staked using wooden oak stakes (2-inch X 2-inch) or steel posts (standard "U" or "T" sections with a minimum weight of 1.25 pounds per foot) at	Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
	a minimum of 48-inches in length placed on 2-foot centers.	Large debris, trash, and leaves should be removed from in front of tubes when found.
6.	Install all sediment tubes to ensure that no gaps exist between the soil and the bottom of the tube. Manufactuer's	7. Inlet protection structures should be removed after the
	recommendations should always be consulted before installation.	disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them
7.	The ends of adjacent sediment tubes should be overlapped 6-inches to prevent flow and sediment from passing through the field joint.	inlet structure crest. Stabilize all bare areas immediately.
8.	Sediment tubes should not be stacked on top of one another.	
9.	Each sediment tube should be installed in a trench with a depth equal to 1/5 the diameter of the sediment tube.	
10.	Install stakes at a diagonal facing incoming runoff.	South Carolina Department of
		Health and Environmental Contr
		Type A
		STANDARD DRAWING NO. SC-07A PAGE 2 of
		NOT TO SCALE FEBRUARY 2014

& MAINTENANCE spections, routine maintenance, and
nducted once every calendar week r each rainfall even that produces
the silt fence is extremely important. y monitored and removed when
ches 1/3 the height of the silt
pile storage areas or spread thinly d sediment after it is relocated.
as eroded a channel beneath the r collapsed due to runoff backs and/or reinstall silt fence,
where silt fence has begun to that may render the silt fence id reinstall new silt fence
s after final stabilization is achieved bed area shall be permanently
Carolina Department of and Environmental Control
SILT FENCE
GNO. SC-03 PAGE 2 of 2
RAL NOTES HERVARY 2014 DATE

INENTS REV DATE BWN CHK DESCRIPTION DESCRI					
ILIENCY IMPROVEME	D EROSION CO	DEIAILS		VN OF RIDGELAND	D, SOUTH CAROLINA
WATER AND SEWER RES	SEDIMENT AN			TOV	RIDGELAN
DESIGN DRAWN WATER AND SEWER RES ABB JMC	JOB# 17-1007 SEDIMENT AN	ISSUE FEB	DAIE 2023	ISSUE BID	



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GENERAL NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.
- 2. THE CONTRACTOR SHALL PROTECT ALL BENCH MARKS AND MONUMENTS FROM DAMAGE AND SHALL ESTABLISH OFFSET POINTS AS REQUIRED FOR THIS WORK. THE CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL SCHEDULED IMPROVEMENTS AS SHOWN ON THE CONTRACT DRAWINGS.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFYING THE TOWN ENGINEER OF POTENTIAL CONFLICTS. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY MARK-OUT SERVICE PROVIDER PRIOR TO COMMENCING WORK.
- 4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY EXISTING ABOVEGROUND AND UNDERGROUND UTILITIES, CONDUITS, STRUCTURES, EQUIPMENT, FOUNDATIONS, PIPE, ETC. AS NECESSARY TO COMPLETE THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE OWNER'S OF THE UTILITY 72 HOURS PRIOR TO STARTING WORK AND SHALL BEAR ALL COSTS ASSOCIATED WITH SAME. VARIOUS UTILITIES MAY NEED TO BE RESET BY THE AFFECTED UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE UTILITY COMPANY TO AVOID DELAYS. NO EXTENSION OF TIME WILL BE PROVIDE DUE TO THE LACK OF COORDINATION BY THE CONTRACTOR. THE CONTRACTOR SHALL PERFORM TEST PITS WHERE EXISTING UTILITIES ARE TO BE CROSSED. TEST PIT INFORMATION SHALL BE GIVEN TO THE TOWN ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS MAY BE REQUIRED TO AVOID CONFLICTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT ALL IMPROVEMENTS WITHIN SCDOT AND TOWN R.O.W.'S AND EASEMENTS. ALL SURVEY LAYOUT VERIFYING THE EXACT LOCATION OF THE R.O.W.'S SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL COSTS FOR SAME SHALL BE INCLUDED WITHIN THE VARIOUS BID ITEMS
- THE CONTRACTOR SHALL TAKE CARE IN MAINTAINING ALL LANDSCAPING AND YARD STRUCTURES WITHIN THE CONSTRUCTION LIMITS. WHEN RELOCATION IS NECESSARY OR WHERE ANY DAMAGE IS DONE TO SAID ITEMS THEY SHALL BE RESTORED BY THE CONTRACTOR, AT HIS EXPENSE, TO THE SATISFACTION OF THE TOWN ENGINEER.
- ANY CONCRETE STRUCTURE, DRIVEWAY, WALKWAY, OR CURB WHICH IS NOT SHOWN, DIRECTED, OR MARKED OUT BY THE ENGINEER TO BE REPLACED, BUT IS REMOVED. MISALIGNED OR DAMAGED AS A RESULT OF THE CONTRACTOR'S CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR PER SCDOT STANDARDS AT NO ADDITIONAL COSTS TO THE TOWN.
- THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE AWAY FROM RESIDENCES AND ALONG ROAD GUTTERS IS MAINTAINED AT ALL LOCATIONS DISTURBED WITH IN THE PROJECT LIMITS.
- IF IT SHALL BECOME ABSOLUTELY NECESSARY TO PERFORM WORK AT NIGHT. THE TOWN ENGINEER SHALL BE INFORMED IN ADVANCE AND APPROVAL 9 PROVIDED. GOOD LIGHTING AND ALL OTHER NECESSARY FACILITIES FOR PROPERLY CARRYING OUT AND INSPECTING THE WORK SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL STATE AND LOCAL REGULATIONS GOVERNING HOURS DURING WHICH CONSTRUCTION EQUIPMENT MAY BE OPERATED.
- 10. OPEN TRENCHES SHALL BE KEPT TO A MINIMUM. NO EXCAVATION AREAS ARE TO REMAIN OPEN OVERNIGHT. BITUMINOUS STABILIZED BASE COURSE SHALL BE PLACED IN ALL TRENCH AREAS WITHIN THE ROADWAY AT THE END OF EACH DAYS WORK.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL MATERIALS EXCAVATED OF WHATEVER NATURE AT HIS OWN EXPENSE. THE TOWN IS NOT OBLIGATED TO SUPPLY A DISPOSAL SITE. THE CONTRACTOR CAN NOT DEPOSIT ANY OF THE EXCESS MATERIALS WITHIN TOWN LIMITS WITHOUT THE EXPRESS PERMISSION OF THE TOWN ENGINEER. MATERIALS MUST BE DISPOSED OF IN ACCORDANCE WITH ALL STATE REGULATIONS REGARDING SAME.
- ALL STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND DETAILS. 12.
- 13. PROTECTION OF EXISTING TREES WITHIN THE LIMITS OF DISTURBANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE TOWN ENGINEER SHALL DETERMINE IN THE FIELD WHICH TREES REQUIRE TREE PROTECTION. NO CONSTRUCTION EQUIPMENT OR SUPPLIES SHALL BE STOCKPILED OR STORED WITHIN THE DRIP LINE OF ANY EXISTING TREE TO REMAIN.
- 14. ALL PROPERTY CORNERS OR MONUMENTS REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY A SOUTH CAROLINA LICENSED LAND SURVEYOR, AT NO ADDITIONAL COST TO THE TOWN.
- 15. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO MAINTAIN DUST CONTROL AS REQUIRED PER THE EROSION AND SEDIMENTATION DOCUMENTATION AND NPDES PERMIT FOR THE PROJECT. ALL VEHICLES SHALL BE CLEAN AND ALL ROADWAYS SHALL BE MAINTAINED AS DIRECTED BY THE TOWN ENGINEER AND SCDOT.
- 16. ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO THE SCOOT STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING PAVEMENT MARKINGS. CONTRACTOR SHALL NOTIFY TOWN ENGINEER AND SCOOT WHEN TRAFFIC STRIPES AND PAVEMENT MARKINGS HAVE BEEN LAID OUT PRIOR TO PAINTING. SCDOT WILL INSPECT AND APPROVE LAYOUT PRIOR TO CONTRACTOR PAINTING TRAFFIC STRIPES AND PAVEMENT MARKINGS.
- 17. THE CONTRACTOR SHALL PERFORM ONLY THE AMOUNT OF WORK WHICH CAN BE COMPLETED THE SAME DAY. THE ENTIRE ROADWAY SHALL BE OPENED TO TRAFFIC AFTER WORK HOURS UNLESS APPROVED BY TOWN AND SCDOT. SCDOT TEMPORARY PAVEMENT OR APPROVED SURFACE SHALL BE PLACED IN CONSTRUCTION AREAS TO PROVIDE A SMOOTH, SAFE SURFACE FOR VEHICULAR TRAFFIC. THE COST FOR TEMPORARY PAVEMENT SHALL BE INCLUDED IN UNIT PRICE BID FOR VARIOUS CONSTRUCTION ITEMS.
- 18. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION STAKEOUT. OFFSET LINES WITH STAKES SHALL BE SET AT APPROPRIATE INTERVALS TO FACILITATE CONSTRUCTION. CUT SHEETS SHALL BE SUBMITTED FOR APPROVAL TO THE TOWN ENGINEER AND TO THE WORK CREWS AT LEAST 5 DAYS PRIOR TO CONSTRUCTION.
- 19. ALL EXISTING STRUCTURES AND ALL UNDERGROUND STRUCTURES ARE TO BE REMOVED IN ACCORDANCE WITH STATE REGULATIONS.
- 20. THE CONTRACTOR SHALL NOTIFY THE TOWN ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER FROM THOSE SHOWN HEREIN.
- 21. WORK WITHIN SCDOT ROW SHALL BE CONDUCTED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF THE NPDES PERMIT(S) ISSUED TO SCDOT TO GOVERN THE DISCHARGE OF STORM WATER AND NON-STORM STORM WATER FROM ITS PROPERTIES AND PER THE NPDES PERMIT FOR THE PROJECT
- 22. THESE GENERAL NOTES SHALL APPLY FOR THE ENTIRE PROJECT.

SPECIAL NOTE:

*HORIZONTAL DATUM IS NAD 83 SOUTH CAROLINA STATE PLANE COORDINATES *VERTICAL DATUM IN NAVD 88 *SEE NOTE #7 BELOW

SURVEY NOTES

THE FOLLOWING INFORMATION APPLIES TO DRAWINGS G9.2-G9.6 AND C9.1-C9.4

- I HEREBY STATE THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE SURVEY SHOWN HEREIN WAS MADE IN ACCORDANCE WITH **PROJECTIONS OTHER THAN SHOWN**
- 2. UNDERGROUND UTILITIES NOT LOCATED EXCEPT AS SHOWN AND ARE APPROXIMATE. SURVEYING CONSULTANTS DOES NOT CERTIFY TO THE EXACT LOCATION OF ANY UNDERGROUND UTILITY.
- 3. THE WETLAND LINES SHOWN ARE FIELD LOCATIONS OF FLAGS RECENTLY SET BY NEWKIRK ENVIRONMENTAL (SEE REFERENCE PLAT #1) AND ARE SHOWN FOR INFORMATION PURPOSES ONLY. THIS SHOULD NOT BE CONSTRUED AS A CERTIFIED WETLAND SURVEY
- 4. SURVEYING CONSULTANTS CERTIFIES TO THE TOPOGRAPHIC AND ASBUILT INFORMATION PROVIDED HEREON AS OF THE DATE OF SURVEY. IF THIS SURVEYING CONSULTANTS
- 5. THIS SURVEY WAS CONDUCTED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE, THEREFORE THERE MAY BE OTHER EASEMENTS, RIGHT-OF-WAY SETBACK LINES AGREEMENTS RESERVATIONS RESTRICTIONS OR OTHER SIMILAR MATTERS OF PUBLIC RECORD, NOT DEPICTED ON THIS SURVEY
- 6. NO BOUNDARY LINES AND/OR ROAD RIGHT-OF-WAY LINES WERE NOT ESTABLISHED AS A PART OF THIS SURVEY. THE APPROXIMATE BOUNDARY LINES CONSTRUED AS A BOUNDARY SURVEY.
- 7. THE HORIZONTAL DATUM SHOWN IS BASED ON NAD 83 SOUTH CAROLINA STATE PLANE COORDINATES. THE VERTICAL DATUM SHOWN IS BASED ON NAVD 88 DATUM. THE HORIZONTAL AND VERTICAL DATUM SHOWN WERE ESTABLISHED FROM THE SC-VRS SURVEY NETWORK.

REFERENCE PLAT:

1) WETLAND RESOURCE MAP, PS3 SEWER PROJECT, PROJECT #: 04-4584a, JASPER COUNTY, SOUTH CAROLINA, DATED: 06/29/2021, BY: NEWKIRK ENVIRONMENTAL INC.



RECORDED: P.B. 13, PG. 111, 07/16/1974.

NOTES FOR MAINTENANCE AND PROTECTION OF TRAFFIC: 1. ALL DEVICES AND PROCEDURES FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE SCDOT. THE CONTRACTOR SHALL PLAN AND CARRY OUT HIS WORK TO PROVIDE FOR THE CONVENIENT AND SAFE PASSAGE OF ALL VEHICULAR AND PEDESTRIAN TRAFFIC ON ADJACENT STREETS.

- 2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING MAINTENANCE AND PROTECTION OF TRAFFIC THROUGH THE DURATION OF CONSTRUCTION. NO SEPARATE PAYMENTS WILL BE MADE FOR RELOCATING THE DEVICES AS REQUIRED, OR AS DIRECTED BY THE TOWN ENGINEER, DURING THE COURSE OF CONSTRUCTION.
- DURING CONSTRUCTION, ALL ROADS SHALL BE PROPERLY MAINTAINED TO ACCOMMODATE 3. EMERGENCY VEHICLES AT ALL TIMES.
- POLICE DEPARTMENTS FOR TRAFFIC OPERATIONS AND PARKING PROHIBITIONS DURING CONSTRUCTION.
- TOWN ENGINEER AND/OR FIRE DEPARTMENTS PRIOR TO CONSTRUCTION. ALL EMERGENCY TO A SAFE CONDITION AT THE END OF EACH DAY'S WORK PER SCDOT STANDARDS.
- ALL TRAFFIC CONTROL SIGNS AND STRIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE SCDOT. EXACT LOCATION OF STREET SIGNS SHALL BE DETERMINED BY SCDOT SPECIFICATIONS.





THE CONTRACTOR SHALL COORDINATE ANY TEMPORARY DETOURS NECESSARY WITH THE POLICE. VEHICLES MUST HAVE ACCESS TO STREETS AT ALL TIMES AND ALL RESIDENTS MUST HAVE ACCESS TO THEIR HOMES AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING THE ROADWAY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE LOCAL AND STATE

SCALE: 1'' = 30'DATE: 09/08/2021 JOB NO: SC210030-PS3 SG SURVEYING CONSULTANTS

17 Sherington Drive, Suite C, Bluffton, SC 29910 SC Telephone: (843) 815-3304 FAX: (843) 815-3305

GA Telephone: (912) 826-2775 www.SurveyingConsultants.com

Email: SC@SurveyingConsultants.com

CHT C BY SURVEYING CONSULTANTS

SHOWN WERE SCALED FROM THE JASPER COUNTY ONLINE GIS MAPPING SERVICE AND WERE NOT FIELD VERIFIED. THIS PLAT SHOULD IN NO WAY BE

DOCUMENT IS TO BE PROVIDED AS A BASE MAP FOR OTHERS. INFORMATION ADDED AFTER THE DATE OF THIS SURVEY IS NOT THE RESPONSIBILITY OF

THE REQUIREMENTS OF THE MINIMUM STANDARDS MANUAL FOR THE PRACTICE OF LAND SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS "A" SURVEY AS SPECIFIED THEREIN; ALSO THERE ARE NO OBVIOUS, APPARENT OR VISIBLE ENCROACHMENTS OR

LEGEND:

-2~

SSMF

N.T.S.

N/F

R/W

PVC

ANT

▲ A5

EM

CONTOUR SPOT ELEVATION SANITARY SEWER MANHOLE INVERT ELEVATION POWER POLE NOT TO SCALE NOW OR FORMERLY RIGHT OF WAY TYPICAL WETLAND FLAG LABEL POLYVINYL CHLORIDE PIPE WATER VALVE ELECTRIC METER ANTENNA GUY WIRE ANCHOR CLEANOUT OVERHEAD POWERLINE SANITARY SEWER LINE WETLAND LINE

UTH CARO 🖞 No. 21839 🗵 TACELA B. BRID HIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ANGE BRYAN, P.E. ON THE DATE ADJACENT TO THE SEAL PRIN COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. TH CARO FOUR WATERS No. ENGINEERING. INC. S O **M** ш ш C DRAW JMC JOB # ISSUE DATE \mathbf{C} Чш \geq \square \square — co DRAWING NUMBER **G9.1**



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	100 C 10	
	LEGEND:	DESCRIPTION
7	S	- DENOTES EXISTING MANHOLE
	SAN	- DENOTES EXISTING SANITARY SEWER PIPE
	WAT	- DENOTES EXISTING WATER MAIN
		- DENOTES EXISTING LATERAL CONNECTION
	۲	- DENOTES EXISTING MAJOR SANITARY DEF
-	\otimes	- DENOTES EXISTING MINOR SANITARY DEFI
	· · · · · ·	- DENOTES WETLAND LINE
	* * * * * * * * * * * * * * * *	- DENOTES WETLAND



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	SURVEY ABANDONED, EXTERNAL PIPE BORED THROUGH WALL, EXISTING HOLE, EXTERNAL		
EXIST MH-254 N:237042.1412	PIPE, AND ROOTS VISIBLE (FINE AND TAP) 124.1 LF FROM MH-253 TO MH-254	LEGEND: DESC	RIPTION
E:2005481.7471 48" Ø BRICK MH	EXISTING 25% WATER LEVEL SAG 118.0 LF FROM MH-253 TO MH-254	S – DE	ENOTES EXISTING M
DEPTH:3.00' S. OUT: 8" VCP	EXISTING ROOTS VISIBLE (TAP) 115.2 LF FROM MH-253 TO MH-254	—— SAN — — DE	ENOTES EXISTING S
"FLUSH WELL" SYSTEM WITH STAND PIPES	EXISTING ROOTS VISIBLE (TAP)	WAT — DE	NOTES EXISTING A
	EXISTING ROOTS VISIBLE (TAP)		ENOTES EXISTING N
	109.1 LF FROM MH-253 TO MH-254	∅ − DE	NOTES EXISTING N
S AN	EXISTING ROOTS VISIBLE (FINE) 106.3 LF FROM MH-253 TO MH-254		100 170
	EXISTING ROOTS VISIBLE (TAP-2) 103.1 LF FROM MH-253 TO MH-254		
74	EXISTING ROOTS VISIBLE (TAP) AND 25	% WATER	
	LEVEL SAG 99.8 LF FROM MH-253 TO MI EXISTING ROOTS VISIBLE (TAP)	H-254	
WAT WAT 2 WAT	96.7 LF FROM MH-253 TO MH-254	EXISTING ROOTS VISIBLE (FINE)	
	EXISTING ROOTS VISIBLE (TAP) 94.2 LF FROM MH-253 TO MH-254	EXISTING 20% WATER LEVEL SAG	3
		37.1 LF FROM MH-253 TO MH-254 EXISTING ROOTS VISIBLE 35.7 LF	
S VISIBLE (TAP) H-253 TO MH-254		FROM MH-253 TO MH-254	
S VISIBLE (TAP) H-253 TO MH-254		29.0 LF FROM MH-253 TO MH-254	
S VISIBLE (TAP)		EXISTING ROOTS VISIBLE (FINE 23.4 LF FROM MH-253 TO MH-254	AND TAP) 4
S VISIBLE (TAP)		EXISTING ROOTS VISIBLE (FINE) FROM MH-253 TO MH-254) 17.4 LF
H-253 TO MH-254		EXISTING ROOTS VISIBLE (TAP)	
<u>1H-253 TO MH-254</u> TAP BREAK-IN		EXISTING 10% WATER LEVEL SAC	GOLF
NG) 59.6 LF FROM D MH-254	EXIST MH-253		
S VISIBLE (FINE) H-253 TO MH-254	N:236829.2922 E:2005394.5959		
BREAK-IN 53.5 LF	AN 48" Ø BRICK MH IN ROADWAY DEPTH:5 10'		
CAN	Image: Second		
N	S. OUT: 8" VCP	EXISTING TAP BREAK- FROM MH-253 TO MH-2	-IN 52.9 LF 252
SAI.		EXISTING ROOTS VISI 60.5 LF FROM MH-253	BLE (FINE) TO MH-252
SAN		EXISTING ROOTS VISIE 72.9 LF FROM MH-253	BLE (FINE) TO MH-252
		EXISTING TAP BREAK	-IN 93.4 LF
SEE SHEET G9.9 FOR PIPE SEGMENT EXISTING CONDITIONS	I I I I I I I I I I I I I I I I I I I		
	12.4 LE OE 8" CAST IRON	N:236706.8751	
	AP FACTORY CAPPED 231.7 LF	E:2005343.7511 MATERIAL CHANGE: 8" WITH ATTACHED ENCR	VCP TO 8" CAST IRON
	NG FRACTURE 233.5 LF FROM	133.6 LF FROM MH-253	TO MH-252
MH-253	TO MH-252	E:2005343.7511 MATERIAL CHANGE: 8" (CAST IRON TO 8" VCP
	253 TO MH-252	WITH ATTACHED ENCR TUBERCULATION 146.0	USTATION AND LF FROM MH-253 TO MH-252
MH-253	TO MH-252		
EX1 254	ISTING ROOTS VISIBLE (MEDIUM) 4.3 LF FROM MH-253 TO MH-252		
EXISTING GRE VISIBLE (FINE	EASE DEPOSIT AND ROOTS) 260.4 LF FROM MH-253 TO MH-252	TAL	
EXISTING ROOTS WATER LEVEL SA	VISIBLE (TAP AND FINE) AND 25% G 263.6 LF FROM MH-253 TO MH-252		EXIST MH-252
	EXISTING ROOTS VISIBLE (FINE)	THE THE	N:236547.3865 E:2005278.7761
115-2701 WA	XISTING GREASE DEPOSIT 272.7 LF		48" Ø BRICK MH IN ROADWAY DEPTH:5.70'
-NUE (U WAI	EXISTING ROOTS VISIBLE (MEDIUM)		N. IN:8" VCP S. OUT: 8" VCP
JEIWAT	EXISTING ROOTS VISIBLE (TAP-2)		
	278.7 LF FROM MH-253 TO MH-252 TS VISIBLE (TAP-2) AND 25% WATER	SA DA . TA	
LEVEL SAG 282	2.0 LF FROM MH-253 TO MH-252 EXISTING FRACTURE 283.6 LF FROM	L SM Z	6" WATER MA MATERIAL UN
	MH-253 TO MH-252	XX S	TA
RIAL UNKNOWN	285.1 LF FROM MH-253 TO MH-252		
	291.2 LF FROM MH-253 TO MH-252	Z _k	TA -
	EXISTING ROOTS VISIBLE (TAP-2)		4



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	LEGEND:	DESCRIPTION	
	S SAN WAT	 DENOTES EXISTING DENOTES EXISTING DENOTES EXISTING 	MANHOLE Sanitary sewer f water main
		DENOTES EXISTINGDENOTES EXISTING	LATERAL CONNECT MAJOR SANITARY [
8" WATER MAIN MATERIAL UNKNOWN	\otimes	– DENOTES EXISTING	MINOR SANITARY D
EXIST MH-7 N:234569.0790 E:2008379.2462 48" Ø CONCRETE MH			
IN BRICK SIDEWALK DEPTH:7.42' SE IN: 10" PVC (DROP PIPE) SW OUT: 10" PVC			
EXISTING TAP FACTORY CAPPED 1.5 LF FROM MH-7 TO MH-24 (DROP PIPE TO MH-7) EXISTING 25% WATER LEVEL SAG			
5 LF FROM MH-7 TO MH-24 EXISTING 25% WATER LEVEL SAG 17.1 LF FROM MH-7 TO MH-24			
WAT			
SAN WAT E. MAIN			
SAN SAN SE DEPOSITS 17.1 LF	6" WA	ATER MAIN RIAL UNKNOWN	
R LEVEL SAG 17.0	RIES		
DEPOSITS 6 LF	WAT WAT		
	SAN W.	WAT WAT	
DROP) EXIST N:2344 E:2008 48" Ø IN RO/	MH-24 461.6002 8679.4662 CONCRETE MH ADWAY	SAN WAT	
DEPTH SE. IN NW. O	H:6.58' I: 10" PVC DUT: 10" PVC 303.	8 LF OF 10" PVC	WAT WAT
			SAN SAN



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EXIST MH-127 N:239377.9444 E:2007526.7757 48" Ø CONCRETE MH IN UNPAVED AREA DEPTH:6.50' N. IN: 6" PVC W. IN:10" PVC S. OUT: 10" VCP

INSTALL LINING IN MANHOLE PER SPECIFICATIONS INSTALL URETHANE RUBBER SEALING SYSTEM FOR INTERNAL MANHOLE CHIMNEY AND FRAME. INSTALL SEAMLESS EPDM RUBBER SEAL FOR EXTERNAL CHIMNEY AND FRAME. INSTALL HDPE MANHOLE INSERT

> TC: 610-205-00 RIGHT SHOULDER CLOSURE (CASE I/ CASE II) PRIMARY ROUTES

CAPTAIN BILL CREEK

REPLACE FRAME AND COVER AND INSTALL NEW ADJUSTMENT RINGS AS NECESSARY TO ACHIEVE EXISTING RIM ELEVATION OF 23.7' (APPROXIMATELY .75' ABOVE GRADE). INSTALL URETHANE RUBBER SEALING SYSTEM FOR INTERNAL MANHOLE CHIMNEY INSTALL SEAMLESS EPDM RUBBER SEAL FOR EXTERNAL CHIMNEY AND FRAME REHAB BY PIPEBURST 180 LF GRAVITY SEWER FROM MH-128 TO MH-129 · • • • • • • • • • • • • • • * IOR= 23.50 * * * * * * * * * * * * * * VC₽ FŁOWLINE⇒14,466'+ EXIST MH-129 * 10177* * * * * N:239139.5030 _14.70 * * * * JE^{*} 8,"*P₂VČ , * , * , * *E:2007638.6961 48" Ø CONCRETE MH IN UNPAVED AREA V_* * * * * * * DEPTH:8.84' ▼ W. IN: 10" VCP E. OUT: 10" VCP * · · · · · · +> + + + + * * * * * * * * * * * * * * * * * * * +** * * * * * * * * * * * * * 0* * * * * * * * * * MH-130 3.1' ABOVE GRADE). * INSTALL SEAMLESS EPDM RUBBER SEAL FOR *



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CONTINUES ON SHEET C9.2

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PLOT DATE AND TIME: 6/1/2023 7:33:47 PM





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PLAN VIEW

REFERENCES NATIONAL DOCUMENTS ___ SCDOT DOCUMENTS _ _ _ RELATED DRAWINGS & KEYWORDS ____ 5'-0" TOP OF SIDEWALK -THIS DRAWING IS ONLY VALID FOR CONSTRUCTION WHEN SEALED AND SIGNED BY A PROFESSIONAL SLOPE = 100:1 (50:1 MAX)ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA. CHECK WWW.SCDOT.ORG FOR LATEST UPDATE. mmmmm NC STERISTING W. KENDT NO. 21242 DETAIL 1/2" = 1'-0"SIDE ELEVATIONS SIGNATURE ____ 6 _____ ___ ___ ____ ------____ ------____ ____ ____ ____ ____ ____ ____ NEW DRAWING 0 1/2016 DSO # DATE CHK DESCRIPTION SOUTH CAROLINA DEPARTMENT OF TRANSPORTATIO DESIGN STANDARDS OFFICE 955 PARK STREET ROOM 405 COLUMBIA, SC 29201 STANDARD DRAWING SIDEWALK ADJACENT TO CURB DETAIL ISOMETRIC VEIW 720-150-00 EFFECTIVE LETTING DATE JAN., 2016



- STANDARD SPECIFICATIONS.
- LESS THAN 100',
- EXCEED STANDARD SPECIFICATION SPACING.











FLAGGING OPERATIONS GENERAL NOTES

(ALL NOTES, SPECIFICATIONS AND REQUIREMENTS ON THIS STANDARD DRAWING APPLY TO ALL SUBSEQUENT STANDARD DRAWINGS REGARDING FLAGGING OPERATIONS UNLESS OTHERWISE NOTED

MOTORISTS PASSING BY THE WORK ACTIVITY AREA IN THE ADJACENT TRAVEL LANE OPEN TO TRAFFIC AND

PRESENT, WHEN STOP BARS ARE ABSENT. THE LIMITS OF OR THE PHYSICAL AREA WITHIN AN INTERSECTION IS DEFINED BY THE LOCATION POINTS WHERE THE CORNER RADII BETWEEN ADJACENT ROADWAY APPROACHES TIE TO THE EDGE OF

SIGNS AND TRAFFIC CONTROL DEVICES -

1. MEASURE THE ADVANCE WARNING SIGN LOCATIONS FOR EACH APPROACH FROM THE "FLAGGER STATION" LOCATED ON THAT APPROACH. 2. INSTALL THE ADVANCE WARNING SIGNS AS SPACING INTERVALS BASED UPON THE POSTED REGULATORY SPEED LIMIT OF THE ROADWAY PRIOR TO BEGINNING ANY WORK. THE ADVANCE WARNING SIGN SPACING INTERVALS INDICATED ARE FOR NORMAL CONDITIONS. ADJUSTMENTS TO THESE DISTANCES MAY BE NECESSARY DUE TO EXISTING SIGNS, INTERSECTING ROADWAYS, HORIZONTAL AND/OR VERTICAL ALIGNMENTS OR OTHER SIGHT DISTANCE RESTRICTIONS. SEE TABLE A.

- 3. INSTALL ADVANCE WARNING SIGNS MOUNTED ON PORTABLE SIGN SUPPORTS NO LESS THAN 4 FEET FROM THE NEAR EDGE OF THE SIGN TO THE NEAR EDGE OF AN ADJACENT TRAVEL LANE ON ROADWAYS WITH EARTH SHOULDERS AND NO LESS THAN 6 FEET FROM THE NEAR EDGE OF THE SIGN TO THE NEAR EDGE OF AN ADJACENT TRAVEL LANE ON ROADWAYS WITH PAVED SHOULDERS. WHEN CURB & GUTTER IS PRESENT, INSTALL THE SIGN NO LESS THAN 2 FEET FROM THE NEAR EDGE OF THE SIGN TO THE FACE OF THE CURB.
- 4. ALL SIGNS MOUNTED ON PORTABLE SIGN SUPPORTS SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 5 FEET FROM THE GROUND TO THE BOTTOM OF THE SIGN. ALL SIGNS MOUNTED ON GROUND MOUNTED U-CHANNEL OR SQUARE STEEL TUBE POSTS SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 7 FEET FROM THE GRADE ELEVATION OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE TO THE BOTTOM OF THE SIGN UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. MOUNT ALL SIGNS STRAIGHT AND LEVEL AND WITH THE FACE OF THE SIGNS PERPENDICULAR TO THE SURFACE OF THE ROADWAY.
- 5. REFLECTORIZE ORANGE ADVANCE WARNING SIGNS AND ANY ORANGE AREAS OF A MULTI-COLORED ADVANCE WARNING SIGN WITH A FLUORESCENT ORANGE COLORED PRISMATIC RETROREFLECTIVE SHEETING. REFLECTORIZE WHITE REGULATORY SIGNS AND ANY WHITE AREAS OF A MULTI-COLORED ADVANCE WARNING SIGN WITH A WHITE COLORED PRISMATIC RETROREFLECTIVE SHEETING.
- 6. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE REQUIREMENTS OF NCHRP REPORT 350 OR THE AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) AND SHALL REQUIRE APPROVAL BY THE DEPARTMENT. ONLY THOSE TRAFFIC CONTROL DEVICES INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" ARE CONSIDERED ACCEPTABLE FOR USE. THIS LIST MAY BE ACCESSED ON THE DEPARTMENT'S WEB SITE AT: www.scdot.org .
- 7. REFLECTORIZATION OF 36" TRAFFIC CONES USED DURING DAYLIGHT HOURS IS NOT REQUIRED IN THE EVENT A DAYTIME FLAGGING OPERATION EXTENDS INTO THE NIGHTTIME HOURS, REPLACE ALL 36" TRAFFIC CONES WITH EITHER PORTABLE PLASTIC DRUMS OR 42" OVERSIZED TRAFFIC CONES. REFLECTORIZE ALL PORTABLE PLASTIC DRUMS AND 42" OVERSIZED TRAFFIC CONES WITH TYPE IN OR GREATER FLEXIBLE MICROPRISMATIC RETROREFLECTIVE SHEETING UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
- 8. DELINEATE THE TANGENT AREA OF THE LANE CLOSURE WITH THE NECESSARY TRAFFIC CONTROL DEVICES TO MINIMIZE ENCROACHMENT BY MOTORISTS INTO THE CLOSED TRAVEL LANE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ON ROADWAYS WITH POSTED REGULATORY SPEED LIMITS OF 35 MPH OR LESS, INSTALL THE TRAFFIC CONTROL DEVICES AT SPACING INTERVALS OF 25 FEET. ON ROADWAYS WITH POSTED REGULATORY SPEED LIMITS OF 40 MPH OR GREATER, INSTALL THE TRAFFIC CONTROL DEVICES AT SPACING INTERVALS OF 50 FEET. SEE TABLE B.

ADVANCE WARNING ARROW PANEL -

- 1. DURING FLAGGING OPERATIONS, AN ADVANCE WARNING ARROW PANEL SHALL OPERATE IN THE "FOUR CORNERS" CAUTION MODE WHEN LOCATED WITHIN OR IN BETWEEN THE LIMITS OF THE ADVANCE WARNING SIGN ARRAYS SPECIFIC TO A FLAGGING OPERATION. OPERATION OF AN ADVANCE WARNING ARROW PANEL IN AN ARROW, CHEVRON OR ANY OTHER TYPE OF CAUTION MODE OTHER THAN THE "FOUR CORNERS" CAUTION MODE WHEN LOCATED WITHIN OR IN BETWEEN THE LIMITS OF THE ADVANCE WARNING SIGN ARRAYS AS SPECIFIED HEREINBEFORE IS PROHIBITED.
- 2. ALL ADVANCE WARNING ARROW PANELS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION. THE SPECIFIC LOCATION OF AN ADVANCE WARNING ARROW PANEL MAY REQUIRE ADJUSTMENTS DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENT OR OTHER SIGHT DISTANCE RESTRICTIONS.

TRUCK MOUNTED ATTENUATOR -

- 1. A TRUCK MOUNTED ATTENUATOR IS OPTIONAL. UTILIZATION OF A TRUCK MOUNTED ATTENUATOR SHOULD BE CONSIDERED WHEN THE MINIMUM DISTANCE REQUIREMENTS FOR THE "BUFFER SPACE" ARE UNAVAILABLE DUE TO FIELD CONDITIONS. HOWEVER, A TRAILER MOUNTED ADVANCE WARNING ARROW PANEL MAY BE UTILIZED IN PLACE OF A TRUCK MOUNTED ATTENUATOR DURING TRAFFIC CONTROL SETUPS FOR WORK ACTIVITIES SUCH AS ASPHALT CONCRETE PLACEMENT OPERATIONS WHEN APPROVED BY THE ENGINEER.
- 2. WHEN UTILIZING A TRUCK MOUNTED ATTENUATOR, ENSURE THE TRUCK HAS THE CORRECT GROSS VEHICULAR WEIGHT (GVM) REQUIRED FOR THE TYPE OF TRUCK MOUNTED ATTENUATOR BEING UTILIZED. A DIRECT TRUCK MOUNTED TRUCK MOUNTED ATTENUATOR, A UNIT MOUNTED AND ATTACHED TO BRACKETS OR SIMILAR DEVICES CONNECTED TO THE FRAME OF THE TRUCK, REQUIRES A TRUCK WITH A MINIMUM GVM OF 15,000 POUNDS (ACTUAL WEIGHT) UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. A TRALER TOWED TRUCK MOUNTED ATTENUATOR, A TRALER TYPE UNIT TOWED FROM BEHIND AND ATTACHED TO THE FRAME OF THE TRUCK VIA A PINTLE HOOK / HITCH, REQUIRES A TRUCK WITH A MINIMUM GVM OF 10,000 POUNDS (ACTUAL WEIGHT) UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. IF THE ADDITION OF SUPPLEMENTAL WEIGHT TO THE VEHICLE AS BALLAST IS NECESSARY, CONTAIN THE MATERIAL WITHIN A STRUCTURE CONSTRUCTED OF STEEL. CONSTRUCT THIS STEEL STRUCTURE TO HAVE A MINIMUM OF FOUR (4) SIDES AND A BOTTOM. A TOP IS OPTIONAL. BOLT THIS STRUCTURE TO THE FRAME OF THE TRUCK. UTILIZE A SUFFICIENT NUMBER OF FASTENERS FOR ATTACHMENT OF THE STEEL STRUCTURE TO THE FRAME OF THE TRUCK TO ENSURE THE STRUCTURE WILL NOT SEPARATE FROM THE FRAME OF THE TRUCK DURING AN IMPACT UPON THE TRUCK MOUNTED ATTENUATOR. UTILIZE EITHER DRY LOOSE SAND OR STEEL REINFORCED CONCRETE FOR BALLAST MATERIAL WITHIN THE STEEL STRUCTURE TO ACHIEVE THE NECESSARY WEIGHT. THE BALLAST MATERIAL SHALL REMAIN CONTAINED WITHIN THE CONFINES OF THE STEEL STRUCTURE IN ITS ENTIRETY AND SHALL NOT PROTRUDE FROM THE STEEL STRUCTURE IN ANY MANNER.
- 3. LOCATE THE TRUCK MOUNTED ATTENUATOR APPROXIMATELY 100 FEET IN ADVANCE OF THE "WORK ACTIVITY AREA" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 4. PROVIDE, INSTALL AND MAINTAIN THE TRUCK MOUNTED ATTENUATOR AS SPECIFIED BY THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

GENERAL -

- 1. CONDUCT THE WORK IN SUCH A MANNER SO AS NOT TO ENCROACH ONTO THE ADJACENT TRAVEL LANE OPEN TO TRAFFIC. INSTALL, MAINTAIN AND ADJUST THE TRAFFIC CONTROL DEVICES AS NECESSARY TO ENSURE PROPER DELINEATION OF THE WORK AREA.
- 2. IF WORK IS BEING CONDUCTED AT TWO DIFFERENT LOCATIONS AT THE SAME TIME, SEPARATE THE TWO LOCATIONS BY NO LESS THAN 2 MILES FROM THE LAST TRAFFIC CONTROL DEVICE IN THE "DOWNSTREAM TAPER" OF THE FIRST LANE CLOSURE TO THE FIRST TRAFFIC CONTROL DEVICE IN THE "APPROACH TAPER" OF THE SECOND LANE CLOSURE ENCOUNTERED BY A MOTORIST UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 3. THE DEPARTMENT RESERVES THE RIGHT TO RESTRICT WORK OPERATIONS AND/OR WITHHOLD THE MONTHLY ESTIMATE IF THE TRAFFIC CONTROL IS NOT PROPERLY INSTALLED AND MAINTAINED AS DIRECTED BY THE STANDARD SPECIFICATIONS. THE SPECIAL PROVISIONS. THE STANDARD DRAWINGS, THE PLANS AND/OR THE ENGINEER.

SIGN PLACEMENT IN	TERVALS
SIGN FEACEMENT I	VILIVALS
SPEED LIMIT	*
# 1 35 MPH # LOW SPEED	200
# 40 - 50 MPH INTERMEDIATE SPEED	350
# 55 MPH # HIGH SPEED	500

TRAFFIC CONTROL DE WORK ACTIVITY /	VICE SPACING INTERVALS BUFFER SPACE AREAS
SPEED LIMIT	SPACING INTERVALS
5 35 MPH	25 FEET
40 - 55 MPH	50 FEET

REGULATORY POSTED SPEED LIMIT PRIOR TO BEGINNING WORK





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TABLE B	
TRAFFIC CONTROL DE WORK ACTIVITY /	EVICE SPACING INTERVALS BUFFER SPACE AREAS
SPEED LIMIT	SPACING INTERVALS
≤ 35 MPH	25 FEET
40 - 55 MPH	50 FEET





CEMENT	INTERVALS	TRAFFIC CONTROL D	EVICE SPACING INTERVALS
Г	*	WORK ACTIVITY /	BUFFER SPACE AREAS
	200	SPEED LIMIT	SPACING INTERVALS
PEED	350	5 35 MPH	25 FEET
	500	40 - 55 MPH	50 FEET





SIGN PLACEMEN	IT AND	SPACIN	GINTER	VALS
SPEED LIMIT	a	b	с	d
35 mph OR LESS	50'	100'	200'	200'
40 mph TO 50 mph	75'	150'	350'	350'
55 mph OR GREATER	100'	200'	500'	500'

. WORK LIMITS	REFERENCES	No. 21839 H C A RO K OFESSION No. 21839 H C A RO H C A RO
DUNT ALL DETOUR PAVED SHOULDER OR CURB & FROM THE NEAR HE SIGN ASSEMBLY. HE BOTTOM SIGN E THE NEAR EDGE AY BE REQUIRED IT DISTANCE		FOUR WATERS ENGINEERING. INC. No. 5166
ARROW SIGNS ETING. DRTABLE SIGN MOUNTED SIGN PREPORT 350 LAPPROVED DUCTS LIST FOR CCESSED ON THE OF CONCRETE ALL AND SHALL FLECTIVE SHEETING		DESCRIPTION
L BE AN APPROVED MATERIALS OL DEVICES IN APPROVED. ALL SIGN BLANKS, ARE FOR A SECONDARY AND SHALL REQUIRE	WORK ZONE TRAFFIC CONTROL ENGINEER	REV DATE DWN CHK NO 2 BY BY 23 3 1 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2
REET NAMES MAY ON OPERATIONS OL IS NOT ARD THE PLANS, AWING, INCLUDING TRAFFIC CONTROL CONTRACT LUMP OCATION, ROUTE,	NO. 24242 NO. 24242	ND SEWER RESILIENCY IMPROVEMENTS PART 2 TRAFFIC CONTROL DETAILS ITRAFFIC CONTROL DETAILS NING - SECONDARY ROUTES TOWN OF RIDGELAND TOWN OF RIDGELAND
8	6 5 4 3 2 1 0 8-30-07 JCS DRAWING NO. UPDATE # DATE CHK DESCRIPTION	TEMPORARY DETOUR SIG
• • • • • •	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS OFFICE 955 PARK STREET ROOM 405 COLUMBIA, SC 29201 STANDARD DRAWING	BSDESIGNDRAWNABBJMCNJOB #17-1007NJOB #17-1007NJOB #2023A 32250ISSUEAPRILSCOMISSUEBID
LEGEND TYPE III BARRICADE (6 FEET) SINGLE POST SIGN ASSEMBLY DUAL POSTS SIGN ASSEMBLY	DETOUR SIGNING FOR SECONDARY ROUTES 610-610-00 EFFECTIVE LETTING DATE MAY 2000	FOUR WATE E N G I N E E R I A00 S.C. COA # 5166 WWW.4WENG

DRAWING NUMBER D9.9



- ADDITION OF SUPPLEMENTAL WEIGHT TO THE VEHICLE AS BALLAST IS NECESSARY, CONTAIN TO ENSURE THE STRUCTURE WILL NOT SEPARATE FROM THE FRAME OF THE TRUCK DURING AN IMPACT UPON THE ATTACHED TRUCK MOUNTED ATTENUATOR. UTILIZE EITHER DRY LOOSE

- 4. DUE TO THE WEIGHT OF A TRUCK MOUNTED ATTENUATOR, THE TRUCK MOUNTED ATTENUATOR SUPPLEMENTED WITH AN ADVANCE WARNING ARROW PANEL MAY BE REPLACED WITH A TRAILER MOUNTED ADVANCE WARNING ARROW PANEL WHEN THIS TRAFFIC CONTROL SETUP IS UTILIZED FOR ASPHALT CONCRETE PAVEMENT OPERATIONS. REPLACEMENT WITH A TRAILER MOUNTED

- PERPENDICULAR TO THE SURFACE OF THE ROADWAY.
- RETROREFLECTIVE SHEETING.
- ACCESSED ON THE DEPARTMENT'S WEB SITE AT: www.scdot.org
- THE DEPARTMENT.
- DIRECTED BY THE DEPARTMENT.
- DIRECTED BY THE DEPARTMENT.

- TAPER OF THE SECOND CLOSURE.
- READ BOTH MESSAGES AT LEAST ONCE.
- STANDARD DRAWINGS, THE PLANS AND/OR THE ENGINEER.
- GREATER.

CONSTRUCTION, LATEST EDITION.







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PROJECT LIMIT AND LAND DISTURBANCE LIMITS SCALE 1" = 80'

SCDHEC SEDIMENT AND EROSION CONTROL STANDARD NOTES

- 1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- 2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN
- (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW. • WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE. • WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- 3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- 4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE
- 5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- 6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- 7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000.
- 8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- 9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- 10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- 11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- 12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- 13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- 14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS, WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE;
- 15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
- 16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
- WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
- WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AN OTHER CONSTRUCTION MATERIALS;
- FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND • SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- 17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- 18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- 19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE

PLANNED SEQUENCE OF OPERATIONS:

- 1. CLEARING AND GRUBBING OF AREAS NECESSARY FOR INSTALLATION OF SILT
- FENCE AND INLET PROTECTION PER CONSTRUCTION PLANS.
- INSTALLATION OF SEWER MAIN AND SEWER LATERALS PER CONSTRUCTION PLANS REPAVEMENT OF ROADWAY SURFACE AS PER CONSTRUCTION PLANS INSTALLATION OF HYDROSEEDING AND/OR SOD FOR PERMANENT STABILIZATION OF DISTURBED AREAS.
- MAINTAIN GRASS SURFACE. REMOVE TEMPORARY SEDIMENT CONTROL FEATURES ONCE FINAL STABALIZATION IS OBTAINED.

PROJECT LIMITS NOTES:

PROJECT LIMITS DETERMINED BY RIGHT-OF-WAY DIMENSIONS AS SPECIFIED AND SHOWN ON

PROJECT LIMIT AREAS:

LAND DISTURBANCE LIMITS BASED ON PROJECT IMPROVEMENTS AND CONSTRUCTION RELATED ITEMS (DOES NOT INCLUDE MAINTENANCE OF ROADWAYS).

LAND DISTURBANCE AREAS:



EC9.1



TYPE A - SEDIMENT TUBE INLET PROTECTION		Т	ſYF
GENERAL NOTES	INSPECTION & MAINTENANCE	1.	.S
 Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber, or hardwood mulch. Straw, pipe peedle, and leaf mulch filled sediment. 	 The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal. 	-	С
tubes are not permitted.	2. Regular inspections of sediment tube inlet protection shall be conducted once every calendar week and as recommended		
 The outer netting of the sediment tube should consist of seamless, high-density polyethylene photodegradable materials treated with ultraviolet stabilizers or a second sea high density. 	within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.		Fi Fi
polyethylene non-degradable material.	3. Attention to sediment accumulations in front of the sediment	-	Н
3. Sediment tube diameters shall range from 18-inches to	continually monitored and removed when necessary.	2.	. U
prohibited when used as inlet protection.	4. Remove accumulated sediment when it reaches 1/3 the height		(C Cl
4. Curled excelsior wood, or natural coconut products that are	inlet protection, sediment shall be removed when if fills	2	, 1 [,]
rolled up to create a sediment tube are not allowed.	approximately 1/3 the depth of the sump.	3.	tc
 Sediment tubes should be staked using wooden oak stakes (2-inch X 2-inch) or steel posts (standard "U" or "T" sections with a minimum weight of 1.25 pounds per foot) at 	 Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated. 	4.	. Fi le
a minimum of 48-inches in length placed on 2-foot centers.	Large debris, trash, and leaves should be removed from in front of tubes when found.	5.). Fi
 Install all sediment tubes to ensure that no gaps exist between the soil and the bottom of the tube. Manufactuer's recommendations should always be consulted before installation. 	7. Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them property. Grade the disturbed area to the elevation of the drop.	Т 1.	gi IYF . s
 The ends of adjacent sediment tubes should be overlapped 6-inches to prevent flow and sediment from passing through the field joint. 	inlet structure crest. Stabilize all bare areas immediately.	-	m C In
8. Sediment tubes should not be stacked on top of one another.		-	W
 Each sediment tube should be installed in a trench with a depth equal to 1/5 the diameter of the sediment tube. 		2.	:. Po fa
10. Install stakes at a diagonal facing incoming runoff.	South Carolina Department of	3.). In 2
	Health and Environmental Control		he
		4.	. Р
	SEDIMENT TUBE INLET PROTECTION		
	STANDARD DRAWING NO. SC-07A PAGE 2 of 2		
	NOT TO SCALE FEBRUARY 2014		

E — POST REQUIREMENTS nust be 48-inch long steel posts that meet, at a minimum, the following istics.	SI 1.	LT FEN The key to f regular sedi
f a high strength steel with a minimum yield strength of 50,000 psi. ndard "T" section with a nominal face width of 1.38-inches and a nominal "T" 3-inches. nounds per foot (± 8%)	2.	Regular insp and, as reco 1/2-inch or r
e equipped with projections to aid in fastening of filter fabric.	3.	Attention to Accumulate necessary.
hay need to have a metal soil stabilization plate welded near the bottom d along steep slopes or installed in loose soils. The plate should have a ss section of 17-square inches and be composed of 15 gauge steel, at a e metal soil stabilization plate should be completely buried	4.	Remove acc fence.
o a minimum of 24-inches. A minimum height of 1- to 2- inches above the e maintained, and a maximum height of 3 feet shall be maintained above the	5.	Removed se across distu
shall be at a maximum of 6-feet on center.	6.	Check for a silt fence, or overtopping as necessar
E — FABRIC REQUIREMENTS st be composed of woven geotextile filter fabric that consists of the following	7.	Check for te decompose ineffective. I immediately
ed of fibers consisting of long chain synthetic polymers of at least 85% at of polyolefins, polyesters, or polyamides that are formed into a network it the filaments or yarns retain dimensional stability relative to each other; any treatment or coating which might adversely alter its physical properties	8.	Silt fence sh and once it stabilized.
any defects or flaws that significantly affect its physical and/or filtering es; and, ninimum width of 36-inches.		
ic appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet the requirements of the most current edition of the SC DOT Standard		

12-inches of the fabric should be placed within excavated trench and toed in when the

Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to

Filter Fabric shall be installed at a minimum of 24-inches above the ground.

- CE INSPECTION & MAINTENANCE functional silt fence is weekly inspections, routine maintenance, and iment removal.
- pections of silt fence shall be conducted once every calendar week ommended, within 24-hours after each rainfall even that produces more of precipitation.
- sediment accumulations along the silt fence is extremely important. ed sediment should be continually monitored and removed when
- cumulated sediment when it reaches 1/3 the height of the silt
- ediment shall be placed in stockpile storage areas or spread thinly urbed area. Stabilize the removed sediment after it is relocated.
- areas where stormwater runoff has eroded a channel beneath the or where the fence has sagged or collapsed due to runoff g the silt fence. Install checks/tie-backs and/or reinstall silt fence,
- tears within the silt fence, areas where silt fence has begun to e, and for any other circumstance that may render the silt fence Removed damaged silt fence and reinstall new silt fence
- hould be removed within 30 days after final stabilization is achieved is removed, the resulting disturbed area shall be permanently





South Carolina Department of Health and Environmental Control
SILT FENCE
standard drawing no. $SC-03$ PAGE 2 of 2
GENERAL NOTES FEBRUARY 2014 DATE

- PE A FILTER FABRIC REQUIREMENTS Silt fence must be composed of woven geotextile filter fabric that
- consists of the following requirements: Composed of fibers consisting of long chai of at least 85% by weight of polyolefins, polyesters, or formed into a network such that the polyamides that are filaments or yarns retain dimensional stability relative to each
- other. ree of any treatment or coating which might adversely alter its physical properties after installation ree of any defects or flaws that significantly affect its physical and/or filtering properties; and,
- Have a minimum width of 36-inches. Ise only fabric appearing on SC DOT's Qualified Products Listing
- (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
- 12-inches of the fabric should be placed within excavated trench and bed in when the trench is backfilled.
- ilter Fabric shall be purchased in continuous rolls and cut to the ength of the barrier to avoid joints.
- ilter Fabric shall be installed at a minimum of 24-inches above the round.
- PE A POST REQUIREMENTS Silt Fence posts must be 48-inch long steel posts that meet, at a
- minimum, the following physical characteristics. Composed of a high strength steel with a minimum yield strength of 50,000 psi.
- nclude a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48-inches.
- Weigh 1.25 pounds per foot (± 8%)
- Posts shall be equipped with projections to aid in fastening of filter abric
- nstall posts to a minimum of 24-inches. A minimum height of 1- to - inches above the fabric shall be maintained, and a maximum neight of 3 feet shall be maintained above the ground.
- Post spacing shall be at a maximum of 3-feet on center.

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LAST EDITED BY: STEVE DUCHARME







PHOTO 5 - LOOKING NORTH TOWARD BOOSTER PUMP



PHOTO 3 - LOOKING SOUTH TOWARD CHLORINE GAS ROOM



PHOTO 1: LOOKING EAST TOWARD WELL BUILDING



PHOTO 6 - LOOKING EAST TOWARD WELL PUMP



PHOTO 4 - LOOKING NORTH TOWARD WELL DISCHARGE



PHOTO 2 - LOOKING SOUTH TOWARD WELL BUILDING







PLOT DATE AND TIME: 6/2/2023 9:16:45 AM

GENERAL NOTES

- 1. ARCHITECTURAL DETAILS AND NOTES ARE FOR REFERENCE PURPOSE ONLY. COMPLETE ARCHITECTURAL PLANS FOR CONSTRUCTION ARE INCLUDED ON ATTACHED SHETS A001 THROUGH S201. 2. ELECTRICAL DETAILS AND NOTES ARE FOR REFERENCE PURPOSE ONLY. COMPLETE
- ELECTRICAL PLANS FOR CONSTRUCTION ARE INCLUDED ON ATTACHED SHEETS E10.1 THROUGH E10.2 AND IN ASSOCIATED SECTIONS OF WRITTEN SPECIFICATIONS.

DEMOLITION NOTES:

- 1. CONTRACTOR SHALL COORDINATE SCHEDULE WITH TOWN OF RIDGELAND WATER AND SEWER DEPARTMENT STAFF PRIOR TO INITIATING DEMOLITION AND CONSTRUCTION EFFORTS WHICH
- DEPARTMENT STAFF PRIOR TO INITIATING DEMOLITION AND CONSTRUCTION EFFORTS WHICH REQUIRE TAKING WELL #2 OFFLINE. 2. CONTRACTOR SHALL VERIFY ALL UTILITIES BEFORE INITIATING DEMOLITION AND CONSTRUCTION ACTIVITIES. NOTIFY TOWN OF RIDGELAND PROJECT REPRESENTATIVE AND ENGINEER OF RECORD IMMEDIATELY IF UTILITY CONFLICT MAY OCCUR. 3. CONTRACTOR SHALL COORDINATE WITH TOWN OF RIDGELAND PROJECT REPRESENTATIVE REGARDING EQUIPMENT TO BE RETAINED BY TOWN WHICH SHALL BE DELIVERED TO THE WHICH WASCHWERD AT 200 DEPARTMENT OF DEPARTMENT.
- JIMMY MIXSON WRF AT 366 PREACHER STREET. UNLESS SO IDENTIFIED ALL OTHER EQUIPMENT AND MATERIALS TO BE DEMOLISHED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF AT AN APPROVED DISPOSAL FACILITY
- 4. REFERENCE ARCHITECTURAL, STRUCTURAL AND ELECTRICAL PLANS FOR ADDITIONAL REQUIREMENTS.













PROJECT LIMIT AND LAND DISTURBANCE LIMITS SCALE 1" = 1200'

SCDHEC SEDIMENT AND EROSION CONTROL STANDARD NOTES

IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NECEDED UNIT. THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARLY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST EE MITIATED AS SOON AS PRACTICABLE. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITYES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT FORTO OF THE SITE.

ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY. OR INCORRECT, THE PERMITTE MUST ADDRESS THE INCESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION, ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING MINEDIATELY AFTER THE UTILITY RATIOLATION, FILL OVER: AND TERROTARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. F WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK MOTO ANY WATERS OF THE STATE.

ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTUBBED AREAS HAVE BEEN STABILIZED. ADDITIONAL, CONTROL DEVICES MAY BE REQUISED DURING CONSTRUCTION IN ORDER TO CONTROL REGISION AND/OR OFFSITE SEDMENTATION ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(5) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUDISOL FROM PAVEMENT, AS MAY BE REQUIRED.

RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCRIVODO.

8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE USITURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPLES OF FRESHLY TREATED LUNGER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING MORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS, WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTRE TREATMENT PROR TO DISCHARGE:

15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).

16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:

 WASTEWATER FROM WASHOUT OF CONCRETE. UNLESS MANAGED BY AN APPROPRIATE CONTROL: WASTEWATER TROW WASHOULD'E CURLETE, UNLESS WARNAGED BLAW APPROPRIATE CURLINGL,
 WASTEWATER FROM WASHOULT AND CLEANOUT OF STUCCE, PAINT, FORM RELEASE OLS, CURRING COMPOUNDS AND
 OTHER CONSTRUCTION MATERIALS;
 FOLS, OLS, OR OTHER POLLITANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
 SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE

18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT ANDORS CS: WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

PLANNED SEQUENCE OF OPERATIONS:

 CLEARING AND GRUBBING OF AREAS NECESSARY FOR INSTALLATION OF SILT FENCE AND INLET PROTECTION PER CONSTRUCTION PLANS.
 DEMOLISH EXISTING STRUCTURES PER CONSTRUCTION PLANS.
 WELLSTE IMPROVEMENTS PER CONSTRUCTION PLANS.
 INSTALLATION OF HYDROSEEDING AND/OR SOD FOR PERMANENT STABILIZATION OF DISTURED APEAS DISTURBED AREAS MAINTAIN GRASS SURFACE.

 REMOVE TEMPORARY SEDIMENT CONTROL FEATURES ONCE FINAL STABALIZATION IS OBTAINED

PROJECT LIMITS NOTES:

PROJECT LIMITS DETERMINED AS EXTENT OF LAND DISTURBANCE OR WELL SITE BOUNDARY, WHICHEVER IS GREATER

PROJECT LIMIT AREAS:

APPROX 0.32 ACRES

LAND DISTURBANCE LIMITS BASED ON PROJECT IMPROVEMENTS AND CONSTRUCTION RELATED ITEMS I AND DISTURBANCE AREAS:

APPROX 0.32 ACRES



324 844

DRAWING NUMBER EC10.1





ΤY	PE A - SEDIMENT TUBE INLET PROTECTION		
GE	ENERAL NOTES	11	NSPECTION & MAINTENANCE
1.	Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber; or hardwood mulch. Straw, pine needle, and leaf mulch-filled sediment tubes are not permitted.	1. 2.	The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal. Regular inspections of sediment tube inlet protection shall be conducted once every calendar week and, as recommended,
2.	The outer netting of the sediment tube should consist of seamless, high-density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high-density polyethylene non-degradable material.	3.	within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation. Attention to sediment accumulations in front of the sediment
3.	Sediment tube diameters shall range from 18-inches to 24-inches. Sediment tunes with smaller diameters are prohibited when used as inlet protection.	4.	tube is extremely important. Accumulated sediment should be continually monitored and removed when necessary. Remove accumulated sediment when it reaches 1/3 the height
4.	Curled excelsior wood, or natural coconut products that are rolled up to create a sediment tube are not allowed.		or the seatment tube. When a sump is installed in front or the inlet protection, sediment shall be removed when if fills approximately 1/3 the depth of the sump.
5.	Sediment tubes should be staked using wooden oak stakes (2-inch X 2-inch) or steel posts (standard "U" or "1" sections with a minimum weight of 1.25 pounds per foot) at a minimum of 48-inches in length placed on 2-foot centers.	5. 6.	Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated. Large debris, trash, and leaves should be removed from in
6.	Install all sediment tubes to ensure that no gaps exist between the soil and the bottom of the tube. Manufactuer's recommendations should always be consulted before installation.	7.	tront of tubes when found. Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them
7.	The ends of adjacent sediment tubes should be overlapped 6-inches to prevent flow and sediment from passing through the field joint.		properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.
8.	Sediment tubes should not be stacked on top of one another.		
9.	Each sediment tube should be installed in a trench with a depth equal to 1/5 the diameter of the sediment tube.		
10.	Install stakes at a diagonal facing incoming runoff.		South Carolina Department of Health and Environmental Control
			SEDIMENT TUBE INLET PROTECTION
			NOT TO SCALE FEBRUARY 2014 DATE

regular sediment remova

necessary

immediately





VOLTAG BUSAM A.I.C RA	E: 240 / 120 PS: 225 A \TING: 10,000 A			50		PHA: VICE A M OUNTING	E OF SE: 1 IPS: 12 : SURFA	5 A (CE	мсв	A			
	LOCATION DESCRIPTION		LOAD (KVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD TYPE	LOAD (KVA)		LOCA
	LIGHTS		0.6	Α	20A/1P	1	Α	2	20A/2P	E	1.0		
	RECEPTACLES		0.6	В	20A/1P	3	В	4	-	E	1.0		
	CHLORINE PUMP		1.0	F	20A/1P	5	A	6	20A/2P	E	1.0		
	PHOSPHATE PUMP		1.0	G	20A/1P	7	В	8	-	E	1.0		
	SPARE				20A/1P	9	A	10	20A/1P	G	0.5		EF-2
	SPARE				20A/1P	11	В	12	20A/2P	Н	1.3	(GENERA
	SPARE				20A/1P	13		14	-	Н	1.3		2
	SPARE				20A/1P	15	В	16	20A/1P H 1.5 GENER		ENERAT		
	SPARE				20A/1P	17	A	18	20A/1P	Н	1.0		
	SPARE				20A/1P	19	В	20	20A/1P				
	SPARE				20A/1P	21		22	20A/1P				
	SPARE				20A/1P	23	B	24	20A/1P				
	SPARE				20A/1P	25		26	20A/1P				
	SURGE PROTECTION				30A/2P	27	B	28	20A/1P				
	_				-	27		30	20A/1P			<u> </u>	
						PANEL			5			<u> </u>	
Load			Conn.	Demand	2	2017 NE	C	Load				Conn.	Demar
Туре	DESCRIPTION		KVA	KVA	R	Referenc	е	Туре		SCRIPTI	.ON	KVA	KVA
А	Lighting		0.6	0.8	NEC	Article 2	215.3	E		Heating		4.0	4.0
В	Receptacles		0.6	0.6	NEC	Table 22	20.44	F	La	rgest Mo	otor	1.0	1.3
С	Kitchen Equipment		0.0	0.0	NEC	Table 22	20.56	G	Ot	ther Moto	ors	1.5	1.5
D	Air-Conditioning		0.0	0.0	NEC /	Article 2	20.60	H	0	ther Loa	ds	5.0	5.0
Ph	ase A Connected Load	6.4	KVA	Notes:						TOTAL	CONNECT	ED LOAD	12
Ph	ase B Connected Load	6.4	KVA							TOT	TAL DEMA	ND LOAD) 13
				1						MINI	MUM SI7I	NG AMPS	j 20

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PROJECT PARTICIPANTS

OWNER

TOWN OF RIDGELAND **1 TOWN SQUARE** RIDGELAND, SC 29936

ARCHITECT

WOODS DENDY ARCHITECTS, LLC 893 GRAYS HIGHWAY RIDGELAND, SC 29936 CONTACT: GRADY L. WOODS, AIA, NCARB PHONE:

843 726 6730 thenry@woodsdendy.com

STRUCTURAL

EMAIL:

SOUTHERN CONSULTING AND ENGINEERING, INC 105 CENTRAL AVE 100A GOOSE CREEK, SC

CONTACT: TONY AUSTIN, PE PHONE: 843-718 - 2525

- ARCHITECT IS NOT RESPONSIBLE FOR INTERPRETING 1 THE INTENT OF THESE CONSTRUCTION DOCUMENTS, INCLUDING MAKING MODIFICATIONS AS MAY BE NECESSARY DURING THE CONSTRUCTION PHASE. THE ABOVE NAMED COMPANY AND ARCHITECT OF RECORD ARE NOT LIABLE FOR THE WORK WHERE CHANGES TO THESE DOCUMENTS HAVE BEEN MADE.
- 2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. ALL WORK REQUIRING MEASURING SHALL BE DONE ACCORDING TO FIGURES ON DRAWINGS AND NOT SCALED FROM DRAWINGS. THE ARCHITECT SHALL FURNISH ANY MISSING DIMENSIONS UPON REQUEST.
- ALL WORK SHALL CONFORM TO PREVAILING CODES, 3. ORDINANCES AND REQUIREMENTS, CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION AND SHALL PAY ALL APPLICABLE FEES.
- 4. EXISTING CONDITIONS AND ACTUAL FIELD CONDITIONS MAY VARY FROM INDICATIONS ON DRAWINGS. ALL NEW WORK RELATED TO OR AFFECTED BY EXISTING CONDITIONS SHALL BE MODIFIED TO ACHIEVE THE INTENT OF THE DRAWINGS (COORDINATE WITH ARCHITECT AND OWNER), THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER AND THE ARCHITECT BEFORE PROCEEDING WITH DIRECTLY AFFECTED DEMOLITION OR CONSTRUCTION.
- THE CONTRACTOR SHALL SURVEY PROJECT SITE BEFORE BEGINNING ANY WORK TO VERIFY EXISTING CONDITIONS, REPORT ANY DISCREPANCIES TO OWNER AND ARCHITECT BEFORE BEGINNING WORK.
- PRIOR TO ANY NEW WORK, THE CONTRACTOR SHALL 6. NOTIFY THE OWNER AND ARCHITECT OF ANY UNFORESEEN EXISTING CONDITIONS IN NEED OF REPAIR OR WHICH MAY CAUSE DAMAGE TO THE NEW WORK. THE CONTRACTOR SHALL NOTIFY AND ALLOW SUFFICIENT TIME FOR THE OWNER AND ARCHITECT TO INSPECT THE CONDITION OF THE EXPOSED WORK PRIOR TO INSTALLING NEW CONSTRUCTION.
- 7. INFORMATION CONTAINED ON THESE DRAWINGS IS PROVIDED FOR THE CONVENIENCE OF THE GENERAL CONTRACTOR IN EXECUTING THE WORK. EVERY ATTEMPT HAS BEEN MADE TO PROVIDE COMPLETE AND ACCURATE REPRESENTATIONS OF SUCH CONDITIONS.
- ALL ITEMS ON PLANS, ELEVATIONS AND DETAILS FOR NEW CONSTRUCTION SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- ALL CONSTRUCTION SHALL COMPLY WITH IBC SECTION 1612 AS IT RELATED TO FLOOD LOADS AND MATERIALS. WALL AND CEILINGS SHALL BE 5/8" TYPE X GYPSUM BOARD.
- 10. EXTERIOR PAINT COLORS TO MATCH EXISTING. PRIMER AND TWO COATS OF EXTERIOR LATEX PAINT.



RIDGELAND
2018
2018
2018
2018
2018
2009
2017

ZONE 3

Sheet List			
Sheet Number	Sheet Name		
4001	COVER SHEET		
4100	SITE PLAN		
A101	EXISTING AND PROPOSED FLOOR PLANS		
A102	ROOF FRAMING PLAN		
A103	ROOF PLAN		
A104	ELEVATIONS AND PERSPECTIVES		
A105	BUILDING SECTION		
A106	EXISTING BUILDING PHOTOS		
S100	STRUCTURAL NOTES		
S101	ROOF FRAMING AND FOUNDATION		
S201	SECTION AND DETAILS		











 \checkmark 1 A105

5/8" STUCCO EXTERIOR SAND FLOAT FINISH

NEW 4" CONCRETE STOOP

EXISTING STOOP

12

13

14



EXISTING FRAMING LAYOUT



6 A104

6

NOTE:

PROPOSED ROOF FRAMING

SEE STRUCTURAL DRAWINGS FOR FOUNDATION AND FRAMING DETAILS

Keynote Legend		
Key Value	Keynote Text	
1	REMOVE EXISTING DOOR, CLOSE OPENING AND MATCH EXISTING FINISHES	
2	REMOVE CMU WALL, TIE BEAM AND PATCH FLOOR TO MATCH EXISTING	
3	NEW CMU WALL. SEE STRUCTURAL	
4	NEW 4" CONCRETE SLAB SEE STRUCTURAL	
5	REPLACE DOORS. SEE DOOR SCHEDULE	
6	ACCESS HOLE AND CAP TO REMAIN AS IS	
7	NEW ROOF FRAMING. SEE STRUCTURAL	
8	REMOVE AND REPLACE STANDING SEAM ROOFING TO MATCH EXISTING	
9	NEW DOOR. 3-0 / 7-0 HOLLOW METAL FRAME WITH GLASS LIGHT	
10	REMOVE WINDOW AND FILL IN WITH CMU TO MATCH EXISTING	
11	EXISTING ROOF ACCESS HOLE. COVER NOT SHOWN BUT TO REMAIN AS IS	
12	NEW 4" CONCRETE STOOP	
13	EXISTING STOOP	
14	5/8" STUCCO EXTERIOR SAND FLOAT FINISH	

W Ar AMERIO		DA S Dendy ects, LLC E OF ARCHITECTS MEMBERS
893 G RIDGE PHON	RAYS HIGH ELAND, SC E: 843-726- SOUTH SOUTH GRADY Heston Freston D AH	WAY 299336 6730
NEW CONSTRUCTION FOR:	WATER & SEWER RESILENCY IMPROVEMEN	SECOND AVE AND WEATHERSBEE ST RIDGELAND, SC
DRAWN	BY: Author	21025 CHECKED BY: Checker
Project DATE: 1	O.	REV. DATE



EXISTING ROOF



PROPOSED ROOF

Keynote Legend		
Key Value	Keynote Text	
1	REMOVE EXISTING DOOR, CLOSE OPENING AND MATCH EXISTING FINISHES	
2	REMOVE CMU WALL, TIE BEAM AND PATCH FLOOR TO MATCH EXISTING	
3	NEW CMU WALL. SEE STRUCTURAL	
4	NEW 4" CONCRETE SLAB SEE STRUCTURAL	
5	REPLACE DOORS. SEE DOOR SCHEDULE	
6	ACCESS HOLE AND CAP TO REMAIN AS IS	
7	NEW ROOF FRAMING. SEE STRUCTURAL	
8	REMOVE AND REPLACE STANDING SEAM ROOFING TO MATCH EXISTING	
9	NEW DOOR. 3-0 / 7-0 HOLLOW METAL FRAME WITH GLASS LIGHT	
10	REMOVE WINDOW AND FILL IN WITH CMU TO MATCH EXISTING	
11	EXISTING ROOF ACCESS HOLE. COVER NOT SHOWN BUT TO REMAIN AS IS	
12	NEW 4" CONCRETE STOOP	
13	EXISTING STOOP	
14	5/8" STUCCO EXTERIOR SAND FLOAT FINISH	



PROPOSED











EXISTING

4 SOUTH EXISTING AND PROPOSED 1/8" = 1'-0"



3 NORTH EXISTING AND PROPOSED 1/8" = 1'-0"







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



<u>DOOR</u> <u>3/4" = 1'-0</u>"

			Do
	Mark	Width	He
1		3' - 0"	7' - 0'
2		3' - 0"	7' - 0'

	<	HOLLOW METAL WELDED FRAME
		HIGH IMPACT GLASS
<		CHEMICAL RESISTANCE FIBERGLAS DOOR OR APPROVED EQUAL. PROVIDE DOOR CLOSERS SEALS AND THREASHOLD. SCHLAGE HADWARE LOCK
		SET OR APPROVED EQUAL

oor Schedule				
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EXISTING ROOF ACCES



EXISTING LOOKING EAST



EXISTING LOOKING EAST



EXISTING LOOKING NORTH





EXISTING LOOKING WEST



EXISTING INTERIOR LOOKING NORTH





INTERIOR LOOKING SOUTH







SCALES LOOKING SOUTH













EXISTING ROOF ACCESS FRAMING







ABBREVIATION IFCEND

D			UN LLOLIND
	Т/	_	TOP OR TOP OF
	FTG	_	FOOTING
	SF	_	STEP FOOTING (LOCATION)
	CONC	_	CONCRETE
	WWM	_	WELDED WIRE MESH
	CMU	_	CONCRETE MASONRY UNIT (CONCRETE BLOCK)
	WCJ	_	MASONRY / CONCRETE WALL CONTROL JOINT
	STL	_	STRUCTURAL STEEL OR STEEL
	0.C.	_	ON CENTER (SPACING)
	PSI	_	POUNDS PER SQUARE INCH (STRENGTH)
	TYP	_	TYPICAL
	Х	_	READ AS 'BY'
	CLR	_	CLEAR
	SQ	_	SQUARE
	DEG	_	DEGREE OR DEGREES
	E.W.	_	EACH WAY
	UNO	_	UNLESS NOTED OTHERWISE
	TD	_	TREATED, PRESSURE TREATED PER AWPA SPECS, GROUND CONTACT
			WITHIN 1000 YRS FOR WATER, MARINE EXPOSURE.
	CONT	—	CONTINUOUS
	W/	_	WITH
	W/OUT	_	WITH OUT
	A. BOLTS	—	ANCHOR BOLTS OR BOLT
	0	_	READ AS 'AT'
	PL .	_	PLATE
	REINF	—	REINFORCING
	SHTHG	_	SHEATHING, GENERALLY PLYWOOD
	DIA	_	DIAMETER

GEOTECHNICAL REPORTS: IF A SPECIFIC REPORT IS NOT ADDRESSED HEREIN THE PLANS HAVE BEEN DESIGNED BASED ON ASSUMPTIONS. IT IS THE SOLE RESPONSIBILITY OF THE OWNER TO RETAIN A QUALIFIED GEOTECHNICAL ENGINEER WHO SHALL PERFORM INVESTIGATIONS TO INSURE THAT THE SOIL CONDITIONS ARE AT LEAST THAT WHICH ARE REQUIRED HEREIN.

ANY AND ALL FILL SHALL BE ENGINEERED FILL AND PLACED IN STRICT ADHERENCE WITH THE PROJECT GEOTECHNICAL ENGINEERS REQUIREMENTS. FILL CAN AND WILL INDUCE SETTLEMENTS. PLACING FILL WITHOUT THE DIRECTION OF A GEOTECHNICAL ENGINEER IS PROHIBITED. FILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES, LOOSE MEASURE. EACH LIFT SHALL BE COMPACTED TO WITHIN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY PRIOR TO PROCEEDING WITH THE NEXT LIFT.

ALL SLABS ON GRADE, UNLESS NOTED OR REQUIRED OTHERWISE BY THE PROJECT GEOTECHNICAL ENGINEER, SHALL BE PLACED ON COMPACTED FILL OR SUBGRADE. ALL SLABS SHALL BE PLACED OVER MIN 15 MIL VAPOR BARRIER (VB). VB SHALL BE INSTALLED IN A SMOOTH CONDITION, LAP ENDS NOT LESS THAN 12 INCHES. REPAIR ANY AND ALL PUNCTURES PRIOR TO CONC. PLACEMENT. THE GENERAL CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED SURVEYOR WHO SHALL VERIFY ALL SITE AND BUILDING ELEVATIONS. THE GENERAL CONTRACTOR SHALL INSURE THAT THE LOWEST HORIZONTAL STRUCTURAL MEMBER IS ABOVE ANY AND ALL FEDERAL, STATE AND LOCAL REQUIREMENTS FOR CLEARANCE AND FLOOD ZONE RELATED ISSUES.

SEE ARCH'L DRAWINGS FOR ISSUES RELATED TO HYDROSTATIC VENTING. OPEN SIZES AND LOCATIONS. WHERE NOT SHOWN IN ARCH'L DRWGS ALLOW FOR THE MOST STRINGENT AND COSTLY APPROACH IN BASE BID AND AWAIT FURTHER DIRECTION FROM ARCHITECT.

SEE THE ARCHITECTURAL DRAWINGS FOR ANY AND ALL DIMENSIONS AND CONDITIONS NOT NOTED HEREIN. WHERE DIMENSIONAL DIFFERENCES ARE FOUND, THE ARCHITECTURAL DRAWINGS SHALL GOVERN. THE CONTRACTOR SHALL COORDINATE ALL TOP OF BEAM, TOP OF CMU AND TOP OF STEEL ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.

THE GENERAL CONTRACTOR SHALL MAKE NO SUBSTITUTIONS FROM THOSE ITEMS SPECIFIED HEREIN WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE ARCHITECT OR ENGINEER.

GENERAL NOTES

1. Structural drawings shall be used in conjunction with architectural and mechanical drawings and drawings relating to other trades. Contractor shall be responsible for checking and coordinating dimensions, clearances, etc. with the work of other trades. In case of conflict between drawings, the more stringent requirement shall govern.

In case of conflict between the drawings, notes and specifications, the specifications shall govern. Work not indicated on a part of the drawings but reasonably implied to be similar to that shown at corresponding places shall be repeated. 4. Review all project documents prior to fabrication and start of construction. Report any

discrepancies to the project Architect prior to proceeding with work. 5. It is the contractor's responsibility to protect existing facilities, structures and utility

lines from all damage during construction. 6. Coordinate structural and other drawings that are part of the contract documents for anchored, embedded or supported items which may affect the structural drawings. 7. All details and sections on the drawings are intended to be typical and shall be construed to apply to any similar situation elsewhere on the project except where a separate detail is shown. 8. Use of contract drawings reproduced in whole or any part in shop drawing shall not relieve the contractor nor subcontractors from their responsibility to accurately layout, coordinate, detail, fabricate and install a complete structure.

9. Review all shop drawings for conformance with the contract documents and for completeness and answer all contractor related questions. Stamp and initial all sheets as Approved prior to submitting shop drawings to Architect for review.

FOUNDATION NOTES

1. Backfill and fill material shall be placed in thin successive layers, 8" loose measurement, and each layer shall be compacted to at least 95% of maximum laboratory density. 2. Backfill material shall consist of sand clay soil as directed and approved by the project geotechnical engineer. 3. Soil to be stripped, compacted and tested in accordance with the recommendations of the soils engineer. 4. Center all footings under their respective columns or walls unless otherwise shown on plans. Maximum misplacement or eccentricity - 2"

5. Horizontal joints in footings will not be permitted. 6. Where vertical construction joints occur in continuous footings, provide a minimum continuous 2" x 4" keyway across joint for each 12" of depth. 7. Notify Architect if soil conditions are uncovered that prevent the required soil bearing pressure from

being obtained. B. Coordinate plumbing and foundation elevations to minimize interference. Where plumbing interferes with footing, step footing down as directed by engineer 9. Excavating under or near in-place footings/foundations which disturbs the compacted soil beneath the footings/foundations will not be permitted. 10. Reinforcing shall be supported on precast concrete pads or metal chairs.

CONCRETE NOTES

1. Typical 28 day concrete compressive strength (f'c). f'c (psi) 3000

LOCATION: Slab On Grade Footings

3000

NOTE: All concrete shall be normal weight unless noted otherwise. 2. Reinforcing steel: ASTM A 615, grade 60. Minimum lap shall be 40 bar diameters or 24 inches, U.N.O. 3. Welded wire fabric: ASTM A 185 or ASTM A 497. Lap all edges 1'-0" mesh minimum. 4. Concrete cover: Footings 3", slabs 1 1/2" (U.N.O.).

5. All footings shall rest either on undisturbed soil or a manually operated vibratory sled or tamper should be used to densify any soils in the bottom of the footing trenches loosened during the excavation operation.

 Contractor is responsible for adequately protecting all excavation slopes.
No backfilling against foundation walls shall be done until concrete has attained 75% of its 28 day strength. Provide temporary bracing for walls sustaining more than 3'-6" of earth pressure. This brácing to remain until slabs on grade or floor framing supporting the wall have been poured and set. 8. All continuous horizontal reinforcing and vertical wall reinforcing shall be lapped according to lap splice and embedment requirements per ACI 318, latest edition. . Reinforcement shall be securely held in place while placing concrete. If required, additional bars and stirrups shall be provided by the contractor to furnish support for bars.

15. For waterproofing details and locations, see architectural drawings.

16. Dowels shall match wall reinforcing. 13. Contractor shall make no deviations from design drawings without written approval of the Project Architect. 19. Structural concrete shall conform to ACI 301 and have the following slumps and aggregate requirements Aggregate Location Slump Max. Footings

Footings	3		ASIM #57
Slabs	4"	1"	ASTM #57
All course granite shal	be crushed granite.		
ing steel shall be detailed,	fabricated and installed in	accordance with	ACI 318 and
anual. ACI-315 latest edition	on.		

ACI detailing manual, ACI-315 latest edition. 21. Not used.

22. Shop drawings for placement shall be submitted for review prior to rebar fabrication unless approved otherwise by project Architect 3. No reinforcing bars shall be cut to accommodate the installation of anchors, embeds or other items. 24. Use the structural drawings including revisions and addenda in conjunction with reviewed shop drawings for placement of reinforcing.

25. At changes in direction of concrete walls, beams and strip footings, provide corner bars of same size and quantity (U.N.O.) as horizontal steel. Refer to typical detail. 26. Place concrete per ACI 304. Use internal mechanical vibration for all concrete. Limit maximum free fall drop of concrete to 6'-0" for #57 aggregate and 8'-0" for #8 aggregate. All precautions should be taken to avoid segregation of concrete during placement. 27. Saw cut all slabs not less than 1/4 slab depth. Cut shall be made as soon as possible without dislodging the course aggregate, same day as placement. ACI 302

MASONRY NOTES

. Masonry construction shall conform to ACI "Building Code Requirements for Masonry Structures" (ACI/ASCÉ 530) and "Specifications for Masonry Structures" (ACI/ASCE 530.1) except as amended below. . Obtain copy of masonry code and specifications for reference at the job site.

4. Use type "S" mortar with minimum compressive strength of 1800 psi. 5. Masonry units shall conform to ASTM C90 with a minimum compressive strength of 1900 psi on net section, to provide net area compressive strength of masonry (F'm) of 1500 psi. Provide filled cells as shown on plans. In addition, provide filled cells adjacent to all openings, at

anchorage of connections. . Provide full mortar bedding around all filled cells with vertical reinforcing. 8. Reinforcing for filled cells shall conform to ASTM A615, Grade 60. Provide the following lap splices for reinforcing: #4 Bars 24" #5 Bars 30"

9. Reinforce wall with ladder type reinforcement in bed joints at 16" o.c. measured vertically. Lap splice all horizontal wall reinforcing 6". Provide prefabricated "tee" or corner sections at all intersecting walls. 10. Refer to typical wall sections for maximum construction height of masonry walls. Provide clean—out holes at base of filled cell when the concrete pour exceeds 5 feet in height. 11. Concrete for filled cells shall be vibrated during placement using a "pencil" type vibrator.

12. The masonry walls are not designed to withstand temporary construction loads. It is the contractor's responsibility at all times to maintain wall stability during the construction phase of this project. 14. The use of solid load bearing masonry units is prohibited on this project.

15. Masonry wall construction requires expansion/contraction joints. Locate these joints as directed by the project Architect not more than 40 feet on center. Avoid locations near windows and doors or other geometry that would lend to the formation of epxansion cracks.

16. All lintels over masonry openings shall be Cast-Crete Lintels. Cast-Crete lintels are available from General Materials, Inc.

17. Provide seismically rated brick ties for all brick veneer in accordance with manf'r install instructions.

STRUCTURAL STEEL NOTES

. Structural Steel materials shall conform to the following ASTM specification (U.N.O.): ASTM A36, Fy=36 ksi Angles, plates, misc. steel

ASTM A500, Grade B ASTM A449

Anchor Bolts 2. Provide temporary bracing or guys to provide lateral support until permanent lateral bracing is installed. 3. The contractor shall coordinate the bottom of base plate elevation with the top of concrete and masonry elevation. In case of conflict, the contractor shall make allowance in his bid for the more stringent requirement.

4. All steel details and connections shall be in accordance with the requirement of the AISC SPECIFICATIONS (Latest Edition), including all supplements and revisions. 5. Shop connections not specifically detailed on the drawings may be welded or bolted. Field connections

not specifically detailed on the drawing shall be bolted. 6. Fabrication and erection of structural steel shall conform to the AISC "Manual of Steel Construction,"

and the AISC "Specification for Structural Steel Buildinas," latest Editions. 7. All bolts cast in concrete shall conform to ASTM A-36 or A-307. 8. Beams shall be supported on columns by tab plates welded through the center line of the column

unless specifically shown otherwise herein. 9. All beams shall be punched for two rows of bolts for the attachment of wood blocking. Blocking shall be placed along the top flange, along the web and along the bottom flange unless spedified otherwise. Bolts shall be two rows at 16" o.c. staggred.

TIMBER FRAMING NOTES

of: (fb=1300 psi, Ft=675 psi, Fc=1200 psi) G90 finishes. per row and per layer or ply. prior authorization from engineer ceilings and other such special conditions.

proceeding. edition of the Wood Framed Construction Manual.

DESIGN CRITERIA

DESIGN BASED ON THE 2018 IBC

DEAD LOADINGS ACTUAL SELF WEIGHT DESIGN LOADS & INFOR BASIC WIND SPEED WIND EXPOSURE CAT. SEISMIC DESIGN INFORM. SEISMIC USE GROUP Sds Sdl SITE CLASS SEISMIC DESIGN CATEGO SEISMIC FORCE RESIST. DESIGN BASE SHEAR ANALYSIS PROCEDURE FLOOR LL FLOOR DL ROOF LL ROOF DL GROUND SNOW LOAD

SPECIAL INSPECTIONS

1. Submit concrete mix design to engineer for review prior to the start of work.

2. Independent third party inspector to be present during CMU block grouting process and confirm proper and complete grouting of reinforced cells.

1. All timber construction shall be in accordance with AITC specifications and requirements 2. All timber framing, unless noted otherwise, shall be not less than #2 SYP or SPF kiln dried with minimum properties

3. All engineered timber shall have minimum properties of: (Fb=2800 psi, Ft=2600 psi, Fc=2400 psi). 4. Any and all timbers exposed to the earth, weather or in contact with concrete or masonry components or withing eight (8) inches of exposed grade shall be treated in accordance with AWPA standards. All connectors shall be by the simpson company unless approved otherwise by the project Architect,

6. All floor/roof bracing, blocking and connections shall be by the truss or Engineered component manufacturer. 7. All multiple ply girders shall be glued and nailed together with three rows of 16d nails at 8" o.c.

8. Provide a double joist below all parallel walls not shown otherwise. Provide a double joist adjacent to all changes in span to minimize differential settlement. 9. Layout all plumbing line and fixture locations and space joists to avoid cutting of joists. Where a joist must

be cut provide an additional joist on each side of the cut joist, as close as possible. If cut joists supports more than starndard floor loadings notify engineer for review. 10. Support all joists and beams on joist and beam hangers. Nailers shall not be permitted without

11. Provide simpson CS16 X 24" straps across all ridges and valleys at 32" o.c. Install to prevent against

uplift forces (i.e. across tops of ridges), or collar ties at the same spacing. 12. Solid blocking that matches the depth of the floor joists, shall be installed between joists along all interior and exterior walls. Additional blocking shall be installed between joists at 1/3 points for 2x joist framing. 14. All walls supporting two floors and a roof shall be 2x6's at 16" o.c., 2x4's at 8" o.c. or 3x4's at 12" o.c. 15. The GC shall anticipate and provide furing strips or blocking as may be required to provide a smooth surface for the application of sheetrock. This requirement primarily occurs at, but is not limited to, vaulted

16. The framing and foundations shown herein are based on normal carpet and vinyl floor finishes, normal weight cabinets and counter tops. If heavier materials are used notify engineer and await framing modifications prior to

17. Where roof trusses are used, provide uplift connectors with uplift ratings in excess of the uplift reactions listed within the roof truss shop drawings. Contact engineer for specific directions if required. 18. Top plates, drag struts, shall be nailed together with two rows of 16d nails at 12" o.c. staggered.

19. Bottom plate splices shall have attachments on either side. Where the plate is attached to concrete vou can provide 1/2" dia exp'n bolt with 12" ea. side of ea. splice, or you may provide two powder driven fasteners within 8" ea. side of ea. splice. Plates attached to timber framing shall have two 16d nails driven into the supporting framing within 6" ea. side of ea. splice.

20. Provide min $3" \times 3" \times 1/4"$ square plate washers between TD bottom wall plates and the nut for anchor bolts. 21. Steel beams and columns shall not bear on timber framing. Provide embeded weld plates and steel columns bearing directly on concrete or masonry as necessary for proper support.

22. All timber framing, unless addressed otherwise herein, shall be installed in accordance with the current

MATION	
ATION	134 MPH EXPOSURE C IBC 2018 GROUP 1 .43
ORY SYSTEM	.23 D D LT. FRAMEWALL/SHEAR PANELS 10,000 LBS SIMPLE STATIC
	100 PSF 25 PSF 20 PSF 20 PSF 5 PSF

3. Third party inspector to visually verify rafter uplift connector size, location & attachment.

THE USE OF THESE DRAWINGS IS NOT WITHOUT LIMITATION. THESE DRAWINGS ARE PROVIDED IN ACCORDANCE WITH OUR STANDARD "TERMS OF USE." A COPY OF THESE "TERMS OF USE" IS AVAILABLE ON OUR WEBSITE AT WWW.SCE-ENGNG.COM. USE OF THESE DRAWINGS SHALL CONSTITUTE ACCEPTANCE OF THESE TERMS BY THE CLIENT, PROJECT ARCHITECT, PROJECT OWNER, CONTRACTOR OR ANY OTHER PARTY WHO MAY HAVE AN INTEREST IN OR THE NEED TO USE THESE DRAWINGS.

Southern Consulting & Engineering, Inc.

Structural Engineering 105 Central Ave 100-A Goose Creek, South Carolina

Bus(843) 718-2525 Fax (843) 718-2776 www.SCEstructure.com













CMU LINTEL SCHEDULE A 8"X8" CMU LINTEL WITH (2)#5'S IN BOTTOM. GROUT SOLID WITH 3000 PSI PEA GRAVEL CONCRETE



DRAV	V ING	NC	DTES	(NOTE	X)
(1) –	DRIL	L	AND	EPOXY	(2)#4

- LESS THAN 6" INTO FOOTING WHERE NEW ABUTS EXISTING (2) – EXTEND CMU LINTEL NOT LESS THAN 8" ONTO ADJACENT CMU. TOOTH INTO
- EXISTING AS REGUIRED.
- (3) PROVIDE A VERTICAL CMU CONTROL JOINT BETWEEN NEW AND EXISTING CMU.
- (4) TOOTH NEW CMU INTO EXISTING AT ALTERNATE COURCES. REINFORCE 2 CELLS EACH SIDE OF NEW DOOR OPENING.
- (5) EXTEND NEW ROOF SHEATHING 16" BEYOND EDGE OF NEW CONSTRUCTION. NEW SHEATHING TO FLUSH WITH TOP OF EXISTING. ADD BLOCKING AS REQUIRED TO SUPPORT EDGE OF NEW AND EXISTING SHEATHING



& Engineering, Inc. Structural Engineering 105 Central Ave 100-A Goose Creek, South Carolina

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-(NOTE 1)

SAW CUT EXISTING SLAB FOR PLACEMENT \sim OF NEW FOOTING AND CMU.

FOUNDATION PLAN

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

SEE ARCH'L DRAWINGS FOR DIMENSIONS AND CONDITIONS NOT SHOWN HEREIN. TOP OF FOOTINGS SHALL BE NOT LESS THAN 8" BELOW FINISHED GRADE

FOOTINGS AND SLABS SHALL NOT BE PLACED ON UNCONTROLLED FILL. PLACEMENT AND USE OF COMPACTED FILL, IN EXCESS OF 12" SHALL REQUIRE THE INVOLVEMENT AND BE PLACED UNDER THE SUPERVISION OF A QUALIFIED GEOTECHNICAL ENGINEER. MASONRY HEIGHT ABOVE GRADE SHALL NOT EXCEED 8'-0" WITHOUT PRIOR WRITTEN APPROVAL FROM ENGINEER.

NO SOILS REPORT OR SOILS INVESTIGATION HAS BEEN PERFORMED ON THIS SITE. THIS FOUNDATION DESIGN IS BASED ON ASSUMED SOIL CONDITIONS AND AN ASSUMED SOIL CAPACITY OF 2000 PSF. IT IS THE SOLE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO RETAIN THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THE SOIL CONDITIONS ARE ADEQUATE AND THE SITE HAS BEEN PROPERLY PREPARED PRIOR TO THE START OF WORK. THE GC SHALL REVIEW AND APPROVE ALL DIMENSIONS SHOWN HEREIN PRIOR

TO THE START OF WORK. NOTIFY ENGINEER OF ANY DIMENSION OR CONDITION FOUND CONTRARY TO THAT SHOWN WITHIN THE ARCH'L DRAWINGS.

#4'S X 2'-6" NOT

STATE STATE STATE AND		
WALL FOOTING DETAIL TYP. 1	NEW 4" CONCRETE SLAB FINISH TO MATCH EXISTING	GROUT ALL REINFORCED CELLS SOLID WITH 3000 PSI PEA GRAVEL CONC. 8" CMU WITH #4'S AT 32" O.C. AND 3/16" DUR-O-WALL AT 16" O.C. 1/2" ISOLATION JOINT MATERIAL SLAB EL. CELLS BELOW SLAB EL. CELLS DELOW SLAB EL CELLS DELOW SLAB EL C
9 ()	TYP. I	WALL FOOTING DETAIL
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15/32" OSB ROOF SHEATHING A WITH -3 DIAMETER SERATED RAD O.C., 4" O.C. AT SHEET EDGES (4) .131x3" NAILS-		9
13	15/32" OSB ROOF SHEATHING AT WITH .8 DIAMETER SERRATED NAI O.C., 4" O.C. AT SHEET EDGES (4) .131x3" NAILS –	
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