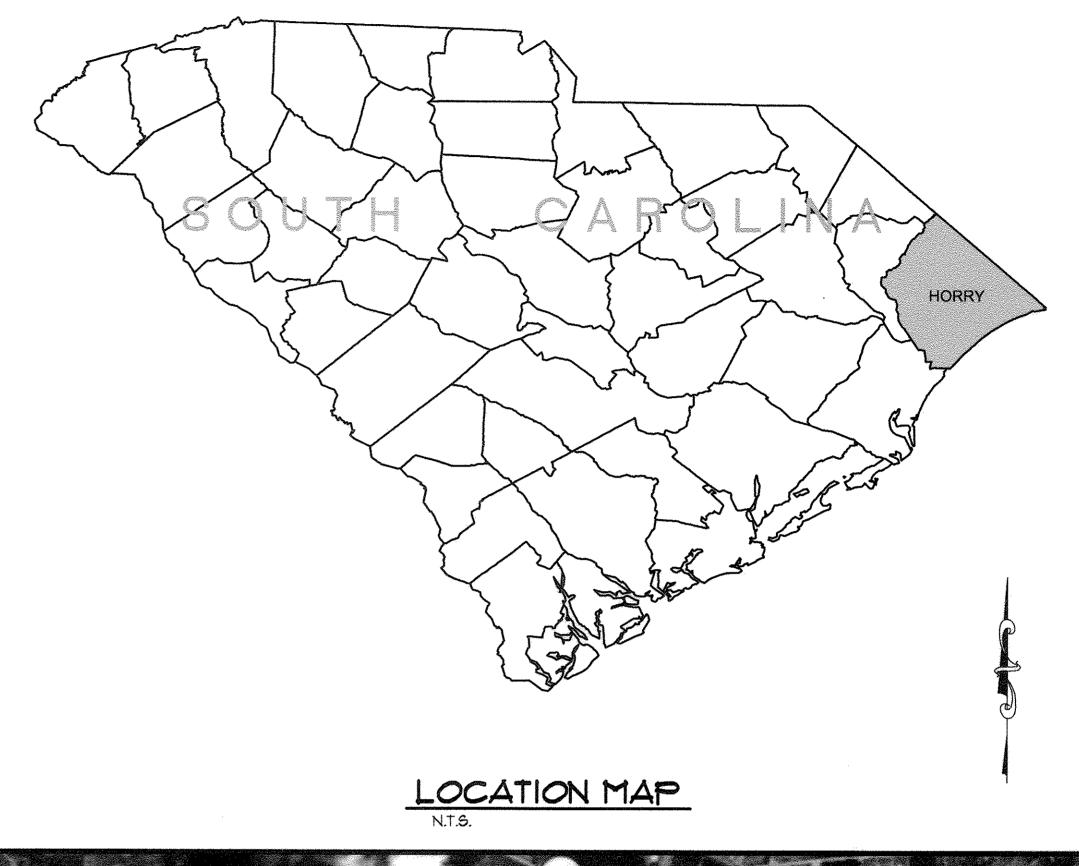
VEREEN WWTP 30" EFFLUENT DISCHARGE

HORRY COUNTY, SOUTH CAROLINA PROJ #: 919-01











MAY 2011

JOB NO. 38014

11x17 DWGS. ARE TRUE HALF SCALE

AS-BUILT

BETWEEN ALL COMPONENTS OF THE SEWER SYSTEM AND WETLANDS/STREAMS. WHERE THIS SEPARATION CANNOT BE MAINTAINED, ALL MATERIALS, TESTING METHODS, AND ACCEPTABILITY STANDARDS SHALL MEET WATER MAIN STANDARDS, AS SPECIFIED IN 15A NOAC ISC. UNDER NO CIRCUMSTANCES SHALL THE SEWER SYSTEM COMPONENTS BE INSTALLED LESS THAN 10 FEET FROM WETLANDS/STREAMS.

THE RIGHT TO CONDUCT ON-SITE INSPECTIONS

AS-BUILT HAS BEEN SUBMITTED TO THE COUNTY.

INTERFERE WITH ACCESS TO THE EASEMENT AREAS AND/ OR MAINTENANCE FUNCTION OF THE DRAINAGE SYSTEM.

GENERAL NOTES

1.) PIPE SEPARATION: THE FOLLOWING MINIMUM PIPE SEPARATION WILL BE MAINTAINED:

A. 24 INCHES VERTICAL SEPARATION BETWEEN CROSSING OF SANITARY SEWER AND STORM SEWERS

B. 18 INCHES VERTICAL SEPARATION BETWEEN CROSSING OF SEWER (INCLUDING FORCE MAINS) AND WATER MAINS (WATER OVER SEWER). ANYTIME A SEWER CROSSES OVER A WATER MAIN, BOTH MUST BE DUCTILE IRON PIPE, PRESSURE TESTED TO 150 PSI.

C. 10 FEET MINIMUM HORIZONTAL SEPARATION BETWEEN SANITARY SEWER (INCLUDING FORCE MAINS) AND WATER MAINS. IF 10 FEET HORIZONTAL SEPARATION CANNOT BE MAINTAINED, THEN DUCTILE IRON PIPE WILL BE USED 10 FEET EITHER SIDE OF CROSSING AND ALONG ENTIRE LENGTH OF LINE LESS THAN 10 HORIZONTAL FEET FROM WATER MAINS. THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE ENGINEER IN THE FIELD BEFORE PAYMENT WILL BE MAKE AT DUCTILE IRON PRICES.

2.) STAKEOUT: CONTRACTOR IS RESPONSIBLE FOR ALL PROJECT LAYOUT BASED ON THE PLANS & PERMITS, LOCATION OF LINE WILL BE STAKED BY THE CONTRACTOR AND VERIFIED BY THE OWNER OR THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION.

3.) UTILITY LOCATION: THE CONTRACTOR SHALL CONTACT THE POWER CO., GAS CO. AND TELEPHONE CO. FOR THE EXACT LOCATION OF ALL UNDERGROUND MAINS, CABLES OR LINES BEFORE CONSTRUCTION BEGINS.

4.) DISTURBANCE DURING CONSTRUCTION: THE CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS FOR LOCATION OF ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL REPAIR ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AT NO COST TO GSW4SA.

5.) ALL ROAD SIGNS AND MAILBOXES REMOVED AS A RESULT OF THIS INSTALLATION WILL BE REPLACED WITHOUT DELAY

6.) NO BORE PITS WILL BE ALLOWED WITHIN FIVE FEET OF EDGE OF PAYEMENT, NO BORE PITS WILL BE LEFT OPEN OVERNIGHT

7.) NO METERS OR VALVES WILL BE ALLOWED IN THE DITCH LINE. ALL METERS AND VALVES WILL BE FLUSH WITH THE EXIST. GRADE OF SHOULDER

8.) NO UTILITY INSTALLATION WILL BE ALLOWED TO CONTINUE PAST 1000' WITHOUT COMPLETING SHOULDER AND DITCH LINE. FOR PUBLIC OR PRIVATE WELLS, PIPING MATERIAL, TESTING METHODS AND ACCEPTABILITY STANDARDS MEETING WATER MAIN STANDARDS SHALL BE USED WHERE THE MINIMUM SEPARATIONS IS LESS THAN 100 FEET. ALL APPURTENANCES (VALVE, ARV, FITTINGS, MANHOLES, TRANSITIONS, ETC.) SHALL BE OUTSIDE THE 100 FOOT RADIUS. THE MINIMUM SEPARATION SHALL HOWEVER NOT BE LESS THAN 25 FEET FROM A PRIVATE WELL OR 50 FOOT FROM A PUBLIC WELL

10.) WELL RADIUS SYMBOL EACH PRIVATE WELL HAS BEEN LOCATED ON THE PLAN SHEET. A SYMBOL REPRESENTING RADII OF 25', 50' AND 100' ARE SHOWN.

11.) ALL WORK PERFORMED WITHIN SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION RIGHTS-OF-WAY SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE SCOOT CONSTRUCTION AND MAINTENANCE OPERATIONS SUPPLEMENT TO THE MANUAL OR UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING THE WORK AND ADHERING TO THE RIGHT-OF-WAY ENCROACHMENT CONTRACT SPECIAL PROVISIONS.

12.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNER TO ACCURATELY DETERMINE THE LOCATION OF EXISTING WATER MAINS AND SEWER LINES WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL TAKE ADDITIONAL CAUTION IN EXCAVATING AROUND THE SERVICE LINES AND MAINS WHILE WORKING WITHIN THIS PROJECT. ANY DAMAGE TO THE MAINS OR SERVICE LINES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

13.) THE CONTRACTOR SHALL REMOVE AND REPLACE EXISTING CULVERTS AND DRAINAGE STRUCTURES AS NECESSARY DURING THE CONSTRUCTION OF THE SEWER LINES, ANY DAMAGE TO THE CULVERTS SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER SPECIAL CIRCUMSTANCES (I.E. UNREINFORCED CONCRETE PIPE) SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY IN ORDER TO RECEIVE ANY NECESSARY CHANGES IN PAYMENT AMOUNTS

14.) THE CONTRACTOR IS INSTRUCTED TO CONTROL SEDIMENTATION RUNOFF BY METHODS APPROVED BY THE ENGINEERS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR IS REMINDED THAT ALL WORK SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE RULES AND REGULATIONS OF EROSION AND SEDIMENT CONTROL AS PUBLISHED BY SC DHEC.

15.) THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS INDICATING THE ACTUAL AS-BUILT CONDITION OF THE PROJECT AT COMPLETION. AS-BUILTS WILL BE FURNISHED AT OR PRIOR TO FINAL INSPECTION BY THE ENGINEER. ACCEPTABLE AS-BUILT DRAWINGS INCLUDE MARK-UP COPIES OF PLAN DRAWINGS INDICATING ALL DIMENSIONS.

16.) NO APPURTENANCES SHALL BE LOCATED IN CLOSE PROXIMITY TO THE 100 YEAR FLOOD PLAIN.

17.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF ANY POWER POLES OR OTHER EXISTING UTILITIES WITH THE ELECTRICAL AND/OR TELEPHONE COMPANY PRIOR TO BEGINNING CONSTRUCTION.

18.) PERMANENT VEGETATION SHALL BE ESTABLISHED QUICKLY UPON COMPLETION OF EACH PHASE OF CONSTRUCTION IN

19. A MINIMUM SEPARATION OF 50 FEET SHALL BE PROVIDED

20.) THE LAND DISTURBING ACTIVITY WILL BE ACCOMPLISHED PURSUANT TO THE CONCEPT PLAN AND THE COUNTY HAS

21.) FINAL INSPECTIONS WILL NOT BE CONDUCTED UNTIL A FINAL

22.) PROHIBIT ALL FENCES AND STRUCTURES WHICH WOULD

INDEX OF SHEETS

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- **GENERAL NOTES & INDEX**
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- PLAN & PROFILE STA 28+00 42+00
- PLAN & PROFILE STA 42+00 56+00
- PLAN & PROFILE STA 56+00 59+41.86
- 30" OUTLET LINE PROFILE
- 30" HDPE HEADER SECTIONS
- **DEWATERING POND SECTION AND DETAIL**
- EXIST. OUTLET STRUCTURE MODIFICATION
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- **EROSION CONTROL DETAILS**

Discharge into ICWW Portion As-Built (Greenwall Construction)





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VEREEN WWTP
30" EFFLUENT DISCHARGE
HORRY COUNTY, SOUTH CAROLINA

AS SHOWN **MAY 2011** Drawn: ALR Checked: JWM Job No.: 38014 Sheet No.:

Of: 19 Version: 8

SECTION/DETAIL LEGEND

GENERAL CONSTRUCTION ABBREVIATIONS

INFL

INV.

JTS

LB

LG

MATL.

MAS

MAX

MECH

MNTG

NO.

O.C.

OPNG

REF

INFLUENT INSIDE

INVERT

JOINTS

POUND

LOW POINT

MATERIAL

MASONRY

MAXIMUM

MANHOLE

MINIMUM

MOUNTING

MECHANICAL

MANUFACTURER

NOT TO SCALE

ON CENTER

OXIDATION

PLAIN END

PEDESTAL

PROJECTION

PUMP STATION

POLYVINYL CHLORIDE

REINFORCED CONCRETE PIPE

RETURN ACTIVATED SLUDGE

REINFORCING OR REINFORCED

PLATE

PLACES

RADIUS

REQ'D REQUIRED

REDUCER

REFERENCE

SCHEDULE

SIMILAR

SPACES

SQUARE

STEEL

STANDARD

STAINLESS

TOP OF

THRD THREAD(S)(ED)

TYPICAL

YERTICAL

WITH

W/O

WITHOUT

WATER LEVEL

TRICK TRICKLING

TCJ,CJ TYP. CONTROL JOINT

SLAB WIDTH

SIDE WALL DEPTH

CONSTRUCTION JOINT

UNLESS OTHERWISE NOTED

WASTE ACTIVATED SLUDGE

WELDED WIRE FABRIC

STAINLESS STEEL

SULFUR DIOXIDE

OPENING

NONPOTABLE WATER

OUTSIDE TO OUTSIDE

LONG

LONG LEG OUT

MECHANICAL JOINT

JOINT

NUMBER OR POUND

LESS THAN OR EQUAL TO

ABOVE FINISHED FLOOR

BENCH MARK OR BEAM

ALUMINUM OR ALUM

APPROXIMATE(LY)

CENTER TO CENTER

CIRCUMFERENCE

ARCHITECTURAL

DIAMETER

LESS THAN

GREATER THAN

ANCHOR BOLT

ADDITIONAL

BOTTOM

BLOCK WALL

CAST IRON

CAPACITY

CLEARANCE

CENTERLINE

CHLORINE

CLARIFIER

CHEMICAL

CONCRETE

CONTINUOUS

CONTRACTOR

CONCRETE WALL

DUCTILE IRON PIPE

EXPANSION JOINT

CONSTRUCTION

COLUMN

COPPER

DIAMETER

DIAMETER

DISCHARGE

EACH FACE

DOWELS

EFFLUENT

EQUAL

ELEVATION

ELEVATION

EQUIPMENT

EXPANSION

FIBERGLASS

FIGURE

FINISHED

FLANGE

FLOOR

HOOK

FOOTING

GALYANIZED

HARDWARE

HORIZONTAL

HIGH POINT

INSIDE DIAMETER

OUTSIDE DIAMETER

HYDRANT

FLARED END SECTION

REINFORCED PLASTIC

EXISTING

CLAY

AND

AFF.

ALUM

ARCH

BOTT.

BM

B.W.

CIC

CAP

C.I.

CL

CLR.

CL2

CHEM

COL

CONC.

CONT

CU

C.W.

DIA

D.I.P.

DP

EJ.

DWLS

ELEY

EXIST

EXP.

F.E.S.

FIG

FIN

FLR

FTG

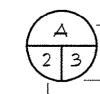
I.D.

GALY

DISCH.

CONTR

DETAIL CALL-OUT AND DETAIL TITLE IDENTIFICATION SYMBOL



DETAIL IDENTIFICATION LETTER (IN SAME STRUCTURE)

SHEET NUMBER (IN SAME DISCIPLINE) WHERE DETAIL IS DRAWN

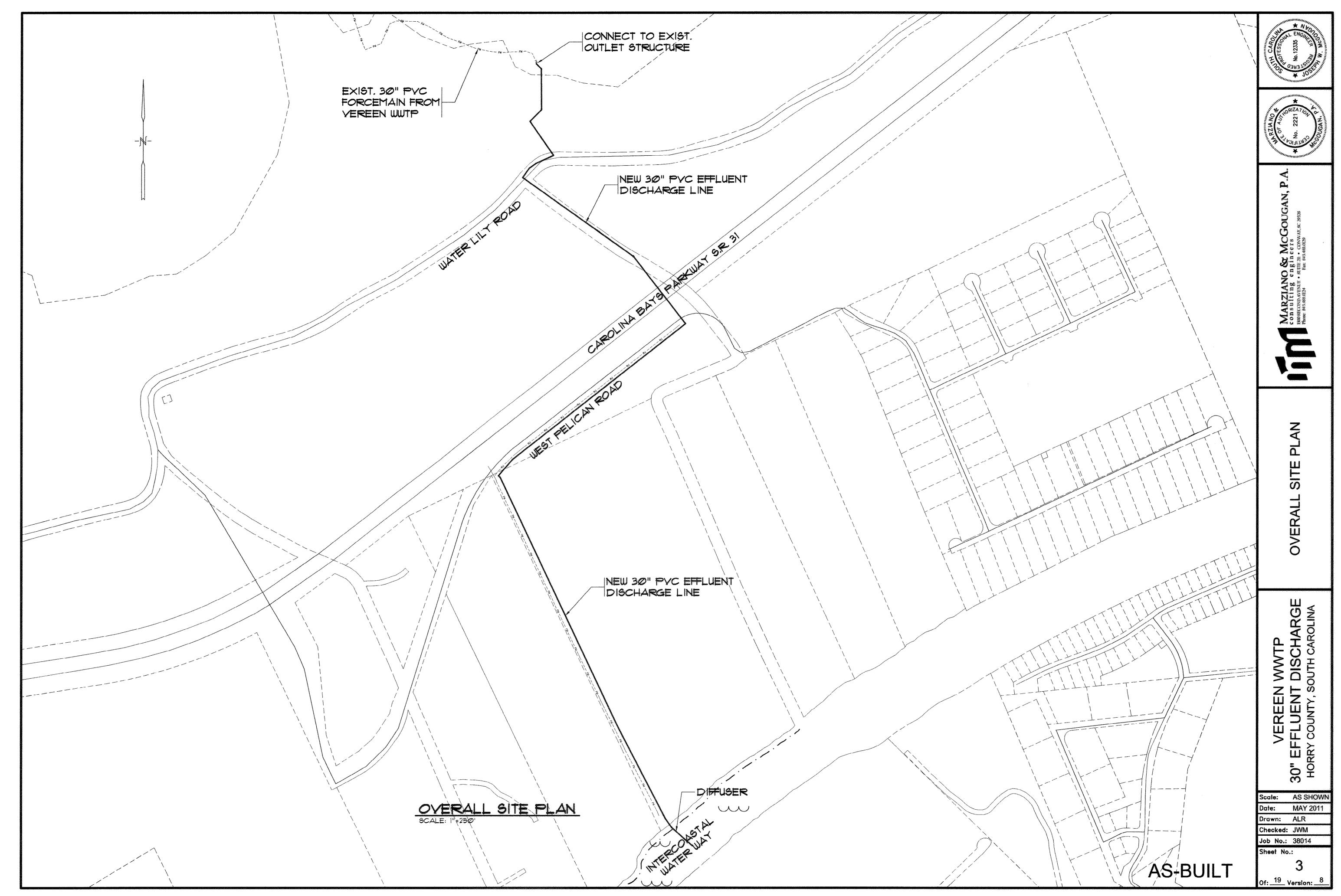
SHEET NUMBER ON WHICH DETAIL CONDITION OCCURS. (DASH INDICATES CONDITION OCCURS ON MULTIPLE SHEETS.)

SECTION CUT SYMBOL (W/ARROW) OR TITLE IDENTIFICATION SYMBOL (W/O ARROW)

SECTION IDENTIFICATION NUMBER

SHEET NUMBER (IN SAME STRUCTURE) WHERE SECTION IS DRAWN.

SHEET NUMBER (IN SAME STRUCTURE) ON WHICH SECTION IS INITIALLY CUT.



47-004-003/20

