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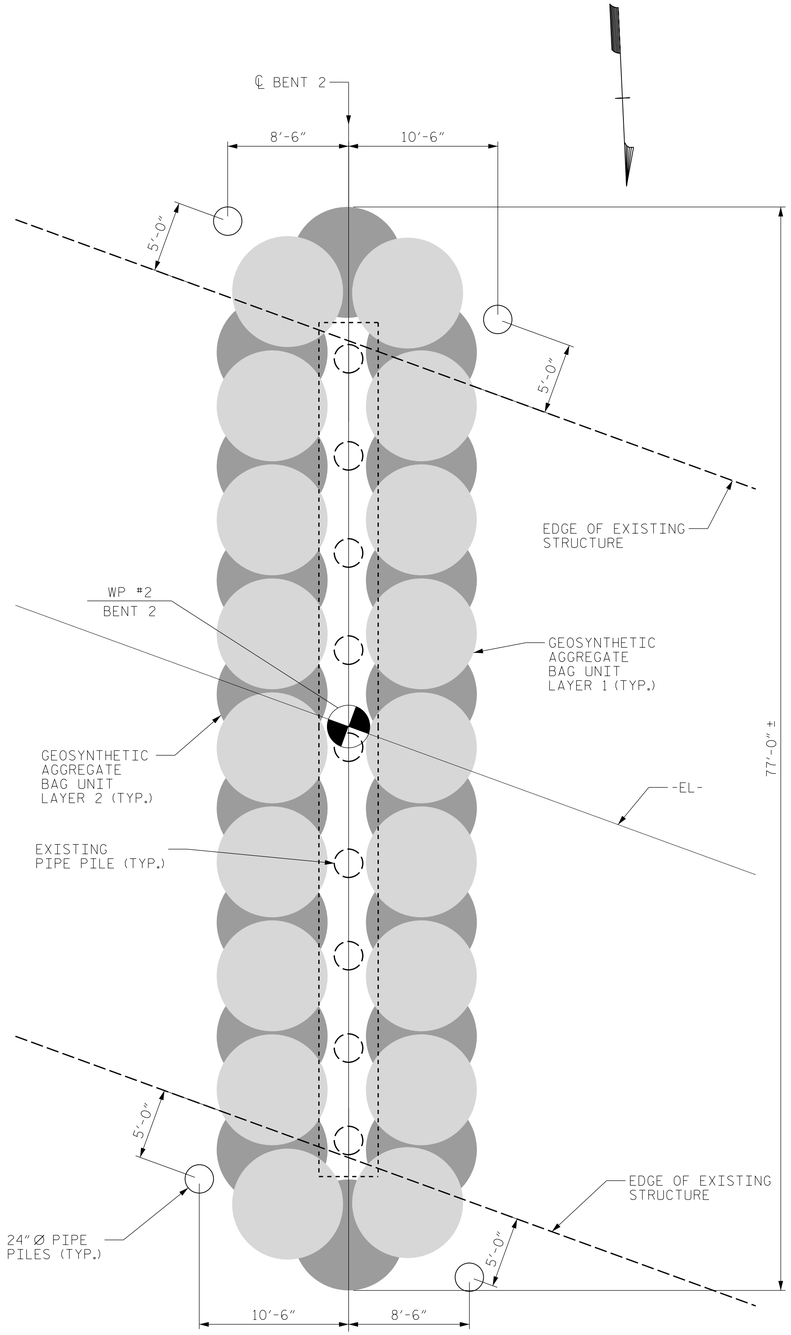
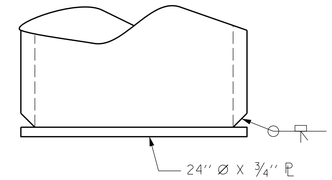
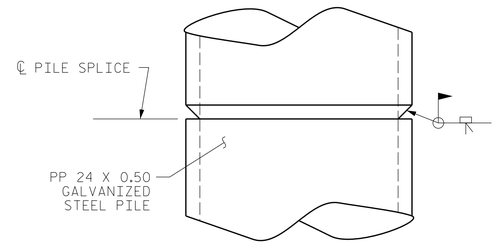


SCOUR COUNTERMEASURES AT BENT #2

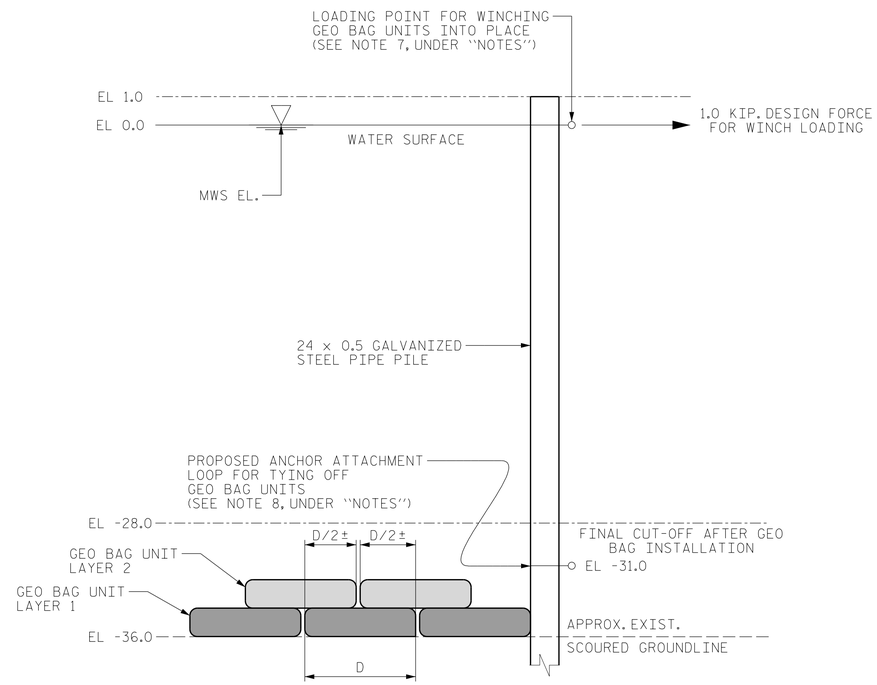
(GEOSYNTHETIC AGGREGATE BAG UNIT PLACEMENT)



PIPE PILE PLATE DETAIL



PIPE PILE SPLICE DETAIL



24" Ø PIPE PILE DETAILS AND GEOSYNTHETIC AGGREGATE BAG STACKING DETAIL

NOTES:

1. PROPOSED PIPE PILE LOCATIONS ARE APPROXIMATE AND MAY BE FIELD ADJUSTED AS APPROVED BY THE ENGINEER.
2. PROPOSED PILES ARE TO BE PLACED A MINIMUM OF 8'-0" FROM ANY EXISTING PILE (MEAUSURED FROM CENTER OF PILE TO CENTER OF PILE).
3. FOR GEOSYNTHETIC AGGREGATE BAG UNITS, SEE SPECIAL PROVISIONS.
4. SECURE EACH LAYER OF AGGREGATE BAGS TOGETHER THROUGH LIFTING LOOPS AND SECURE TO PILES WITH GALVANIZED ⅜" WIRE ROPE. FOR MORE INFORMATION, SEE SPECIAL PROVISIONS.
5. TIE CABLES OFF WITH CROSBY CLAMPS AND ANCHOR TO PROPOSED 24"Ø PIPE PILES.
6. ALL CONNECTIONS AND WIRE ROPE SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE GEOSYNTHETIC AGGREGATE BAG UNIT.
7. CONTRACTOR TO PROVIDE WINCHING CONNECTION DETAILS.
8. FOR ANCHOR ATTACHMENT TIE-OFF DETAILS, SEE SHEET S-4.

PILE NOTES:

1. PIPE PILES SHALL BE IN ACCORDANCE WITH SECTION 1084 OF THE STANDARD SPECIFICATIONS.
2. GALVANIZE FULL LENGTH OF STEEL PIPE PILES IN ACCORDANCE WITH SECTION 1076 OF THE STANDARD SPECIFICATIONS.
3. PIPE PILE PLATES, IF REQUIRED, SHALL BE IN ACCORDANCE WITH SECTION 450 OF THE STANDARD SPECIFICATIONS.
4. REMOVE AND REPLACE OR REPAIR TO THE SATISFACTION OF THE ENGINEER PILES THAT ARE DAMAGED, DEFORMED OR COLLAPSED DURING INSTALLATION OR DRIVING.
5. PILE SPLICES SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND AWS D1.1.
6. PIPE PILES FOR WINCHING AT BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 5 TONS PER PILE.
7. DRIVE PIPE PILES FOR WINCHING AT BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 10 TONS PER PILE.
8. INSTALL PILES ON BOTH SIDES OF BENT 2 TO A TIP ELEVATION NO HIGHER THAN -95 FT.

"D"	GEOSYNTHETIC BAG DIAMETER

PROJECT NO. 105801.1027014
CURRITUCK COUNTY
BRIDGE NO. 260007
SHEET 1 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SCOUR COUNTERMEASURES

DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 043777 ENGINEER JACOB H DUKE
8/18/2021

KISINGER CAMPO & ASSOCIATES
301 FAYETTEVILLE ST., SUITE 1500
RALEIGH, NC 27601 (919) 882-7839
NC FIRM LICENSE: C-1506

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-3
1			3			TOTAL SHEETS
2			4			4

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DRAWN BY :	FIDEL L. FLORES	DATE :	12/2020
CHECKED BY :	JACOB H. DUKE	DATE :	12/2020
DESIGN ENGINEER OF RECORD:	JACOB H. DUKE	DATE :	12/2020

8/18/2021
15801.1027014_SMU_B02_DET01_260007.dgn
jduke