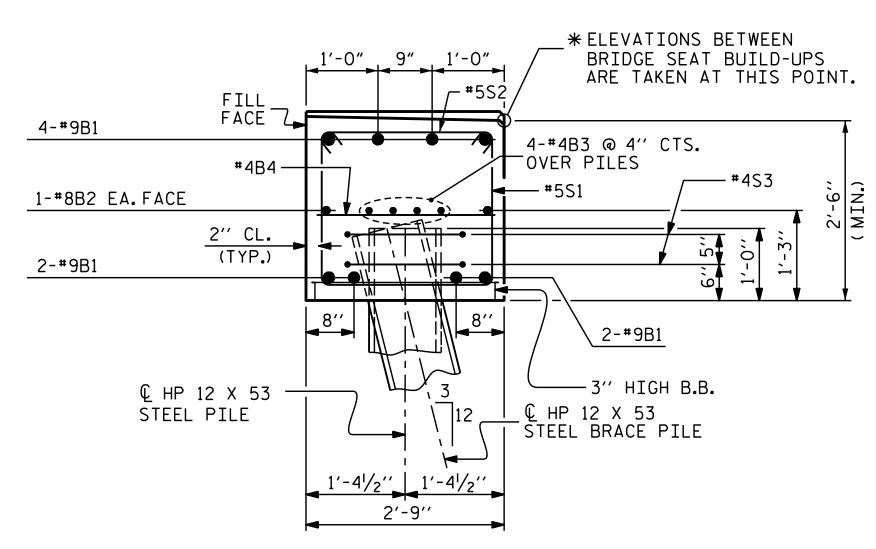


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

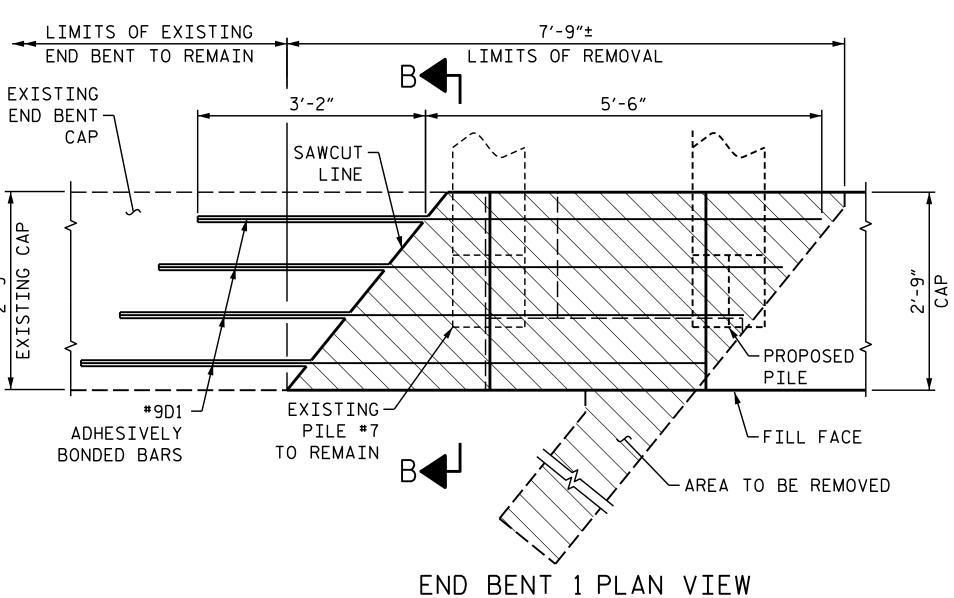
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETER-MINES THAT THEY HAVE DETERIORATED AND LOST THEIR EFFECTIVENESS.

NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

## TEMPORARY DRAINAGE AT END BENT



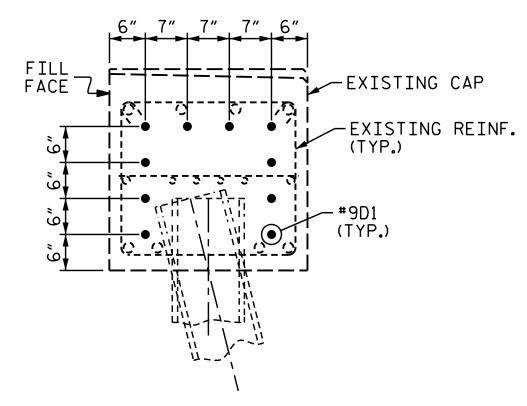
## SECTION A-A



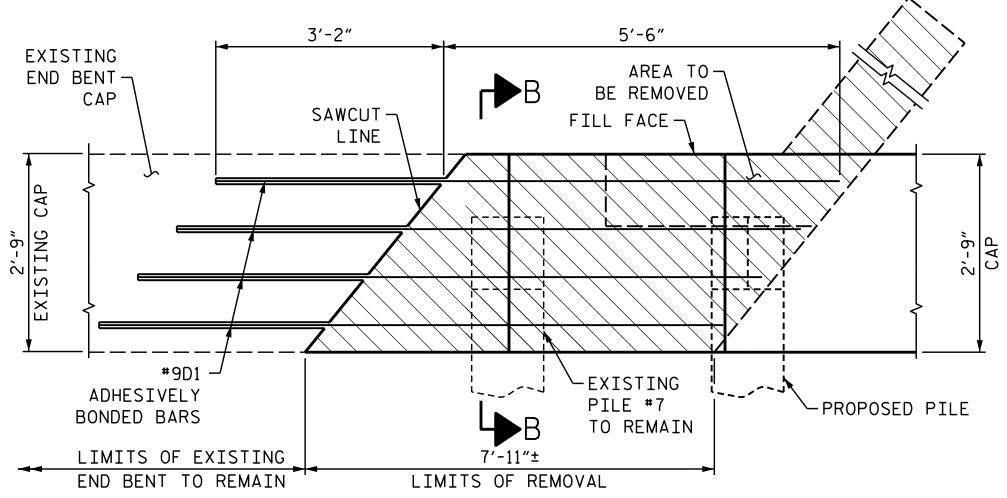
/ BACK GOUGE DETAIL B PILE HORIZONTAL PILE VER<u>tical</u> OR VERTICAL V.T 0" TO 1/8" 0" TO 1/8" DETAIL A DETAIL B

## PILE SPLICE DETAILS

POSITION OF PILE DURING WELDING.



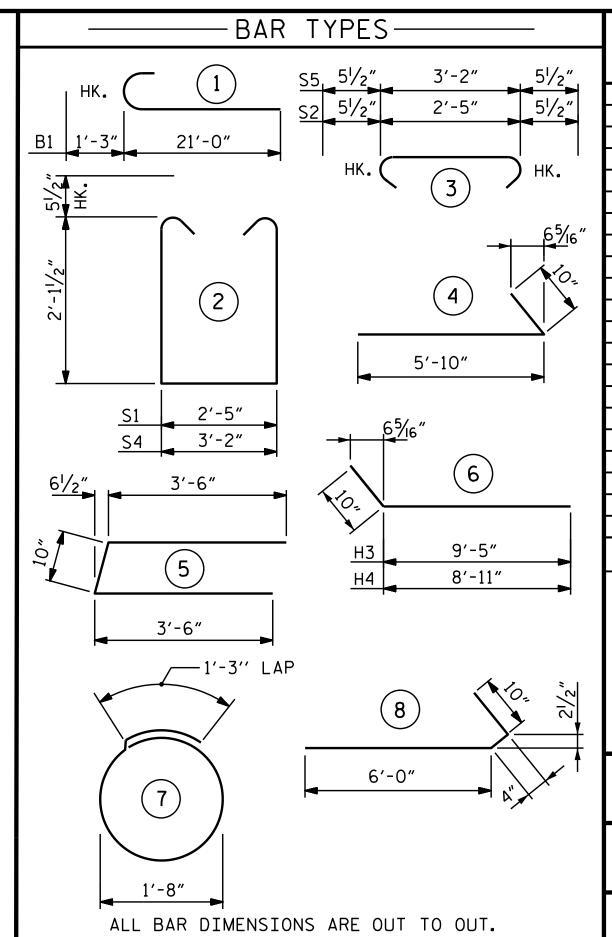
SECTION B-B



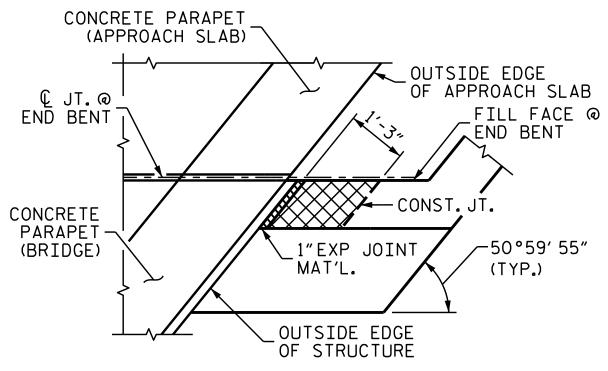
END BENT 2 PLAN VIEW

## <u>IMITS OF REMOVAL DETAIL</u>

PORTION OF EXISTING END BENT, CURTAIN WALL AND WINGWALL TO BE REMOVED AS REQUIRED TO FACILITATE CONSTRUCTION OF END BENT WIDENING.



-	BILL OF MATERIAL END BENT 1						BILL OF MATERIAL END BENT 2						
ŀ	BAR NUMBER SIZE			TYPE LENGTHWEIGHT		BAR	NUMBER	SIZE	TYPE	LENGTH			
ŀ	B1 B2	8 2	#9 #8	1 STR	22'-3" 21'-0"	605 112	B1 B2	8 2	#9 #8	1 STR	22'-3" 21'-0"	605 112	
ľ	B3	4	#4	STR	21'-0"	56	B3	4	#4	STR	21'-0"	56	
I	В4	6	#4	STR	2′-5″	10	B4	6	#4	STR	2′-5″	10	
ŀ	D1	10	#9	STR	8'-8"	295	D1	10	#9	STR	8'-8"	295	
ŀ	H1	13	#5	4	6′-8″	90	Н3	17	#5	6	10'-3"	182	
ł	H2	13	#5	8	7'-2"	97	H4	17	#5	6	9'-9"	173	
ľ	<u>-</u>	- 10				<u> </u>					3 3	1.0	
ŀ	K1	8	#4	5	7′-10″	42	K1	12	#4	5	7′-10″	63	
Ì	S1	21	#5	2	7′-7″	166	S1	21	#5	2	7′-7"	166	
I	S2	21	#5	3	3'-4"	73	S2	21	#5	3	3'-4"	73	
ŀ	<u>S3</u>	8	#4	7	6'-6" 8'-4"	35	S3	8	#4	7	6'-6"	35	
ŀ	S4 S5	2	#5 #5	3	4'-1"	17 9	S4 S5	2	#5 #5	3	8'-4" 4'-1"	17 9	
ľ	- 55		<u> </u>	<u> </u>	' -	<u> </u>	- 55		<u> </u>	<u> </u>	' '	3	
I	V1	21	#5	STR	6′-1″	133	٧2	27	#5	STR	7′-8″	216	
ŀ													
	REINFORCING STEEL LBS. 1,740						REINFORCING STEEL LBS. 2,012						
	CLASS	CLASS A CONCRETE:						CLASS A CONCRETE:					
	POUR	* #1 -	CAP & WING	LOWER	C.Y. 6.0		POUR #1 - CAP & LOWER WING				C.Y	. 6.3	
	POUR	? <b>#</b> 2 -		ACKWALL & C.Y PPER WING		. 1.4	POUF	R #2 -	BACKWALL & UPPER WING		C.Y	. 2.5	
	CLASS A CONCRETE C.Y. 7.4						CLASS A CONCRETE C.Y. 8.8						
	HP 12×53 STEEL PILES						HP 12×53 STEEL PILES						
	NO: 3 LIN.FT. = 195					NO: 3 LIN. FT. = 195							
		ILE DRIVING EQUIPMENT SETUP FOR P 12×53 STEEL PILES NO: 3						PILE DRIVING EQUIPMENT SETUP FOR HP 12×53 STEEL PILES NO: 3					
ŀ	DTLE DEDDTVES NO. 2						DILE DEDDIVES						
	PILE REDRIVES NO: 2						PILE REDRIVES NO: 2						



BLOCKOUT IN WINGWALL

END BENT 2 SHOWN; END BENT 1 SIMILAR

PROJECT NO. U-4424 EDGECOMBE COUNTY STATION: 66+24.84 -L-

SHEET 4 OF 4

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETE

SE AL 19299

3/28/2023

S M. HA

Thomas Harris

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE

END BENTS 1 & 2 DETAILS AND BILL OF MATERIALS

REVISIONS SHEET NO. NO. BY: S-30 BY: DATE: DATE: TOTAL SHEETS

WSP USA Inc. 434 FAYETTEVILLE STREET SUITE 1500 RALEIGH, NC 27601 TEL: 1.919.836.4040 LICENSE NO. F-0165

J. WHEATLEY DATE: MAR 2023
M. HOBBS DATE: MAR 2023 DESIGNED BY: DRAWN BY: J.N.SMITH DATE: MAR 2023 CHECKED BY: DESIGN ENGINEER
OF RECORD: T.M. HARRIS DATE: MAR 2023

2'-9" EXISTING