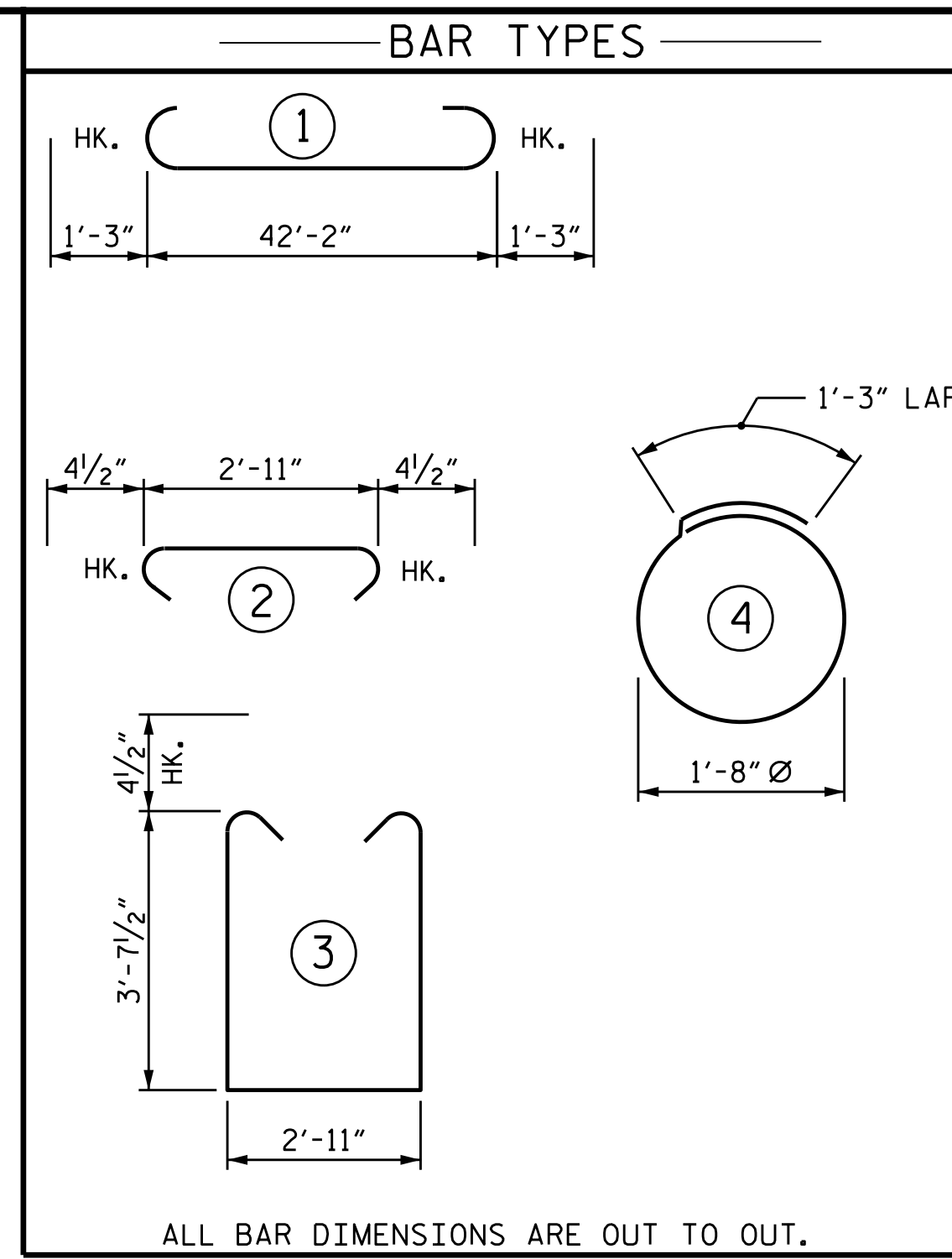


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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 DETERMINES 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

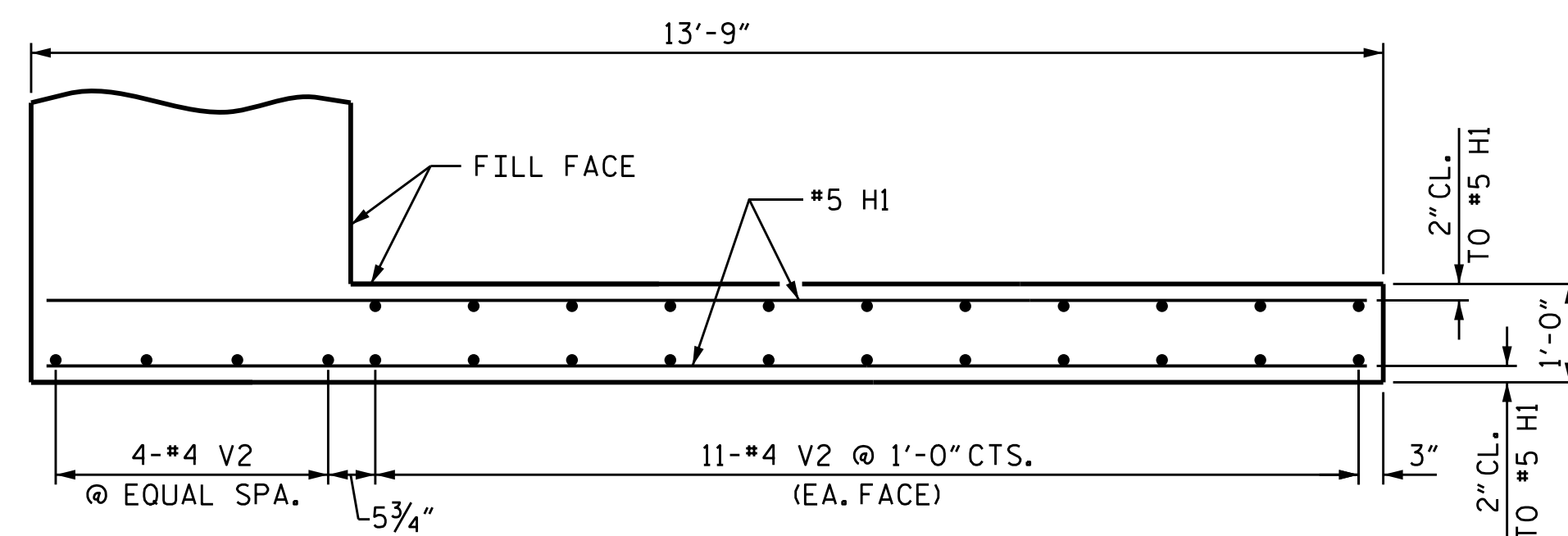


ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

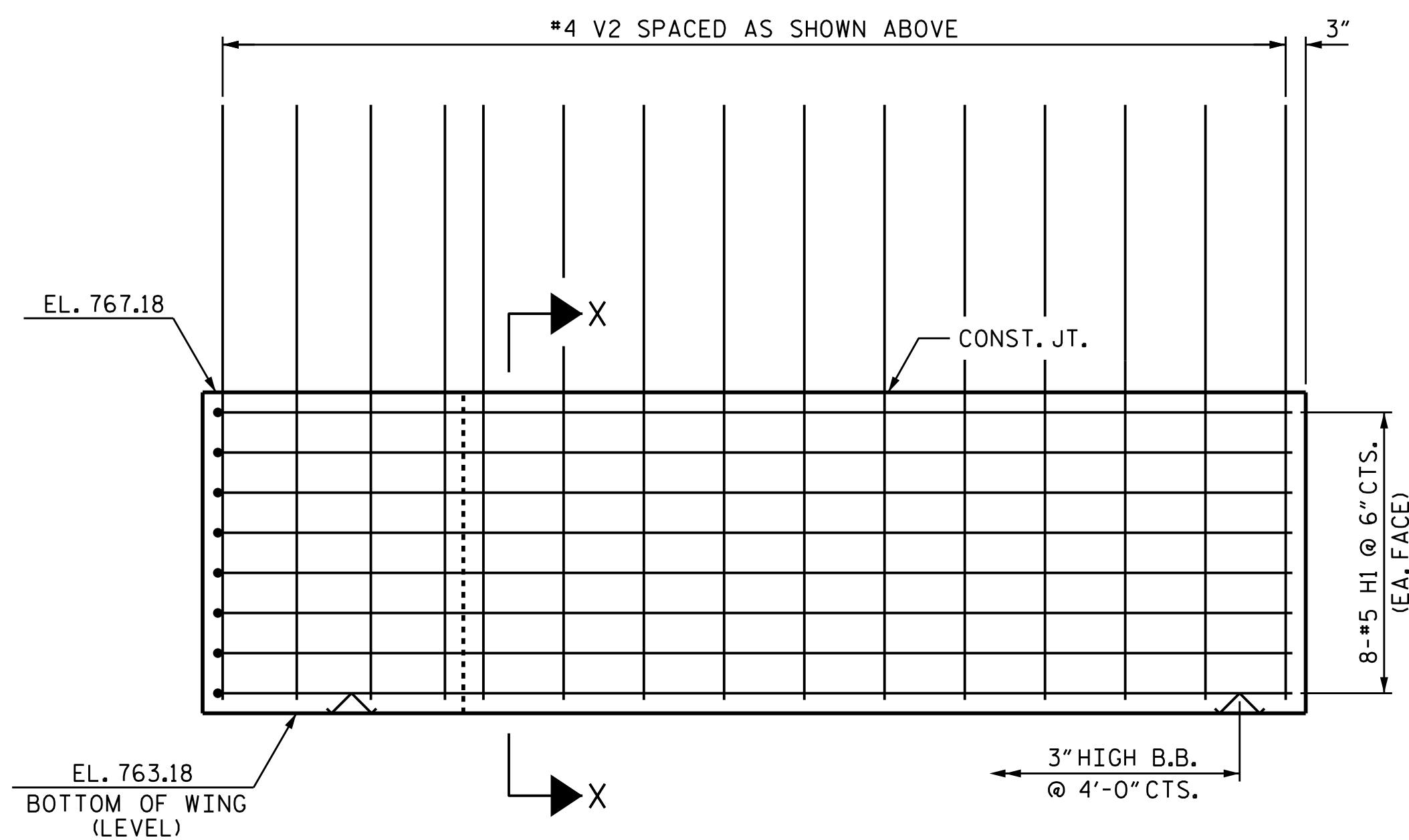
END BENT 2

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#9	1	44'-8"	1215
B2	20	#4	STR	22'-5"	299
B3	11	#4	STR	2'-11"	21
H1	32	#5	STR	13'-5"	448
S1	47	#4	3	10'-11"	343
S2	47	#4	2	3'-8"	115
S3	24	#4	4	6'-6"	104
V1	76	#4	STR	6'-0"	305
V2	52	#4	STR	8'-5"	292
REINFORCING STEEL				LBS.	3,142
CLASS A CONCRETE				C.Y.	25.0
HP 12 X 53 STEEL PILES				LN. FT.	330
NO. 6					



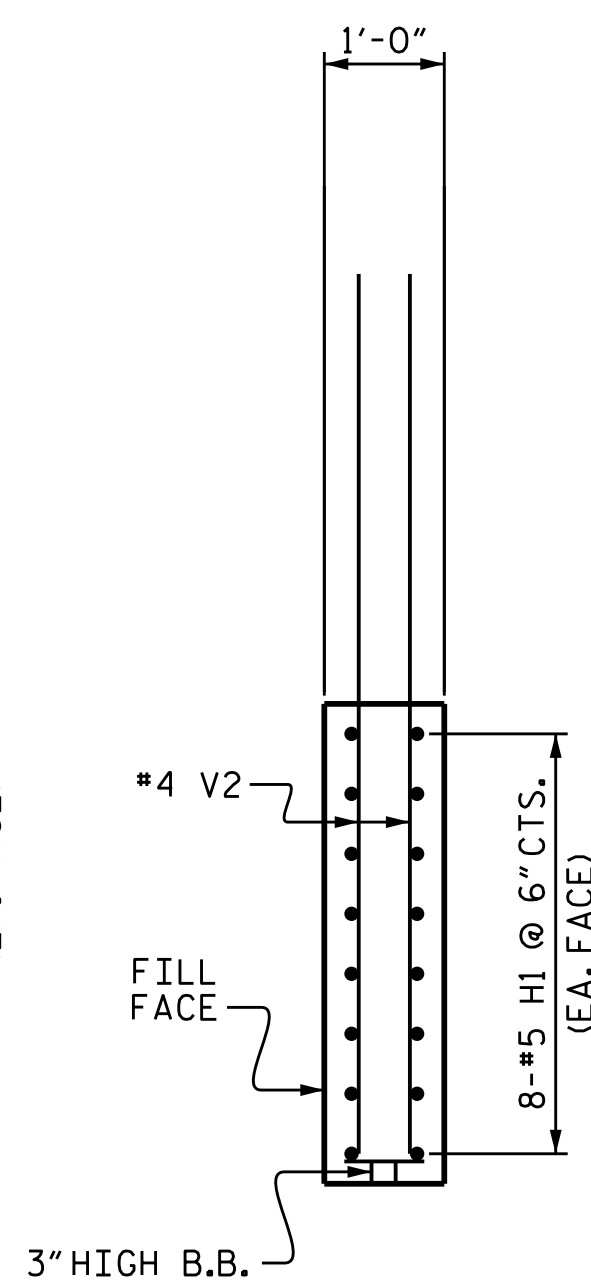
PLAN OF WING

(RIGHT WING SHOWN, LEFT WING SIMILAR)

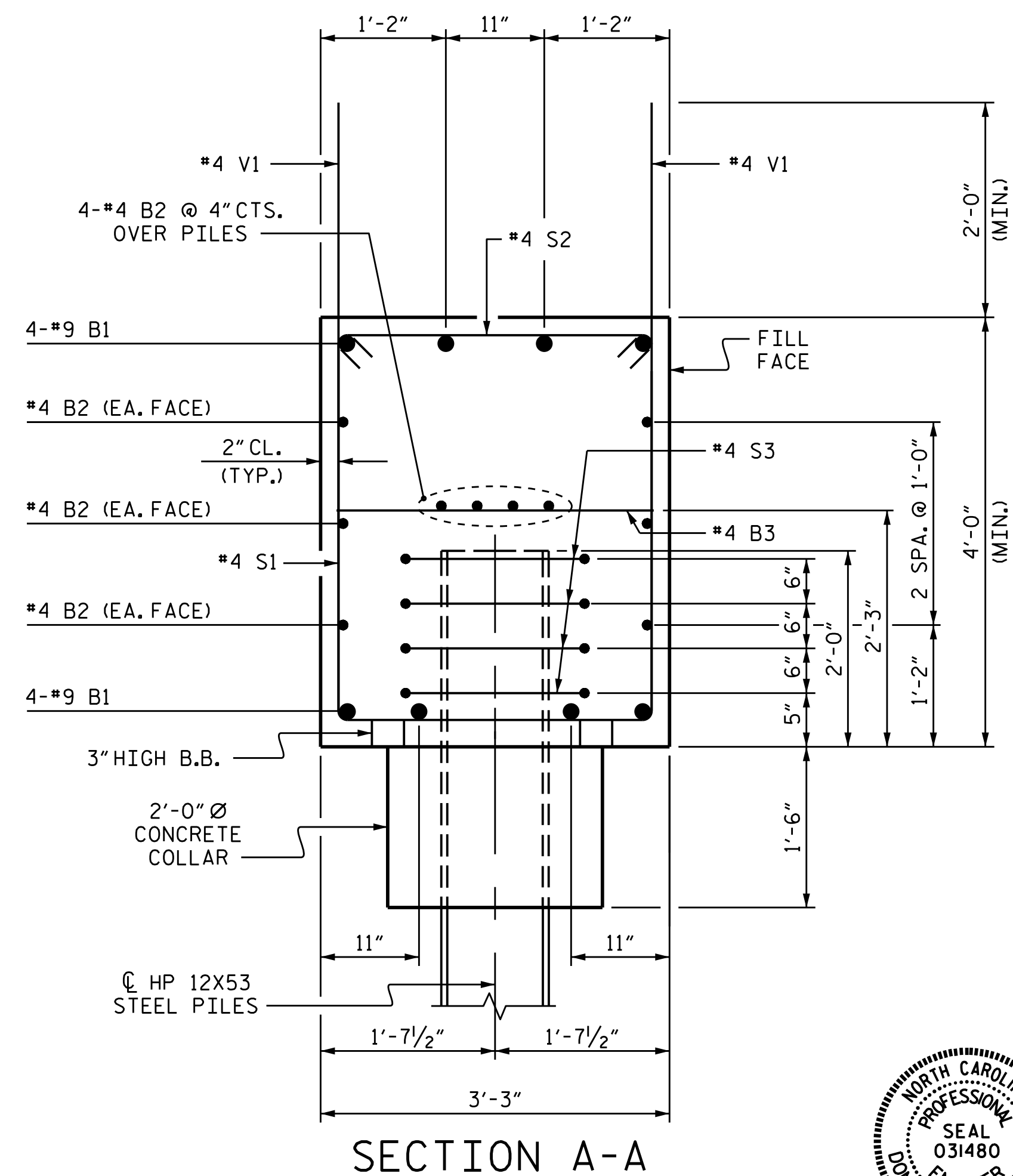


ELEVATION OF WING

(RIGHT WING SHOWN, LEFT WING SIMILAR)



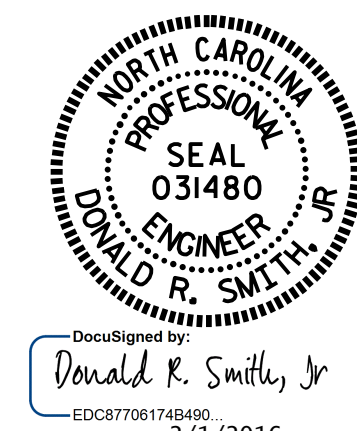
SECTION X-X



SECTION A-A

PROJECT NO. B-5142
IREDELL COUNTY
 STATION: 22+06.00 -L-

SHEET 2 OF 2



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE
 INTEGRAL
 END BENT 2

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-31
1			3			TOTAL SHEETS
2			4			38

DRAWN BY : J.D. HAWK DATE : 6-11-15
 CHECKED BY : K.D. LAYNE DATE : 7-2-15
 DESIGN ENGINEER OF RECORD : T.H. CARROLL DATE : 8-18-15

DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED