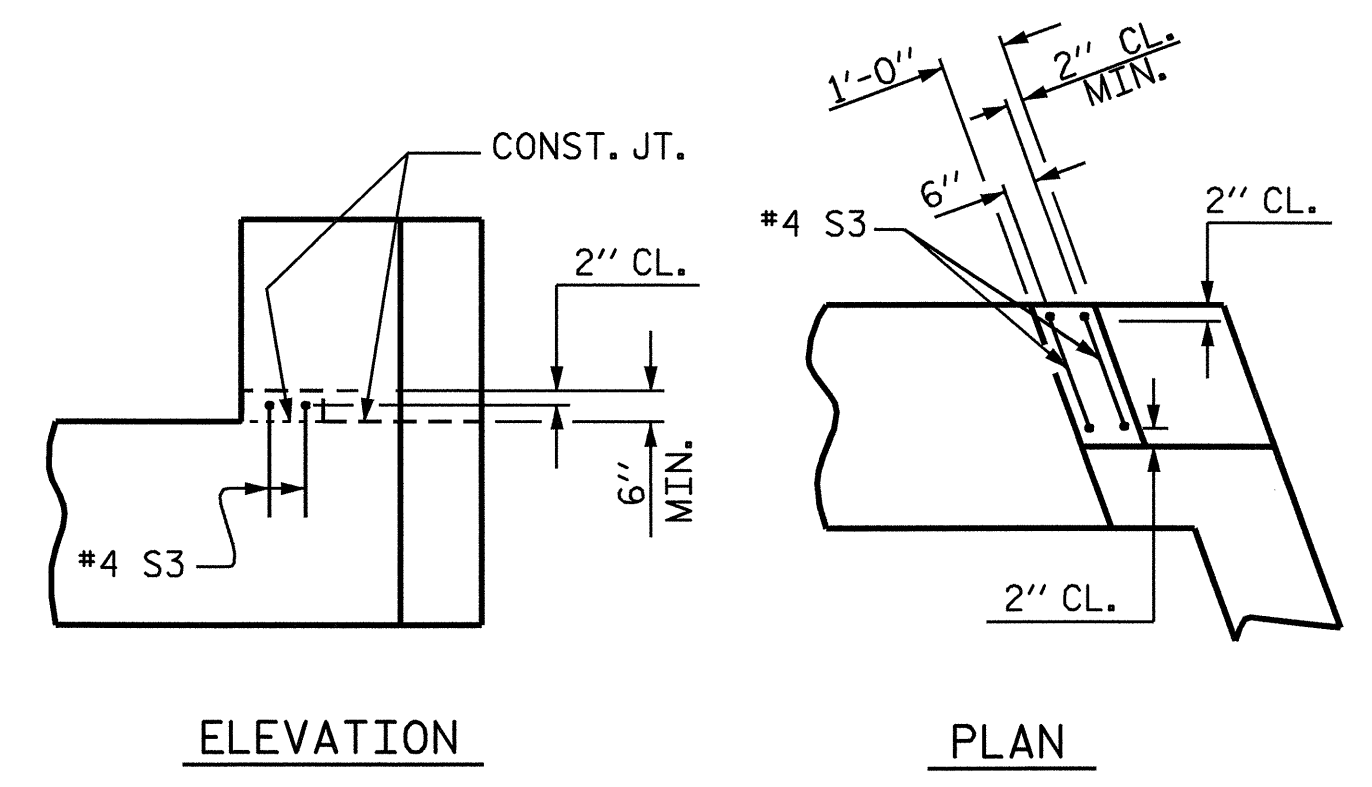


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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.

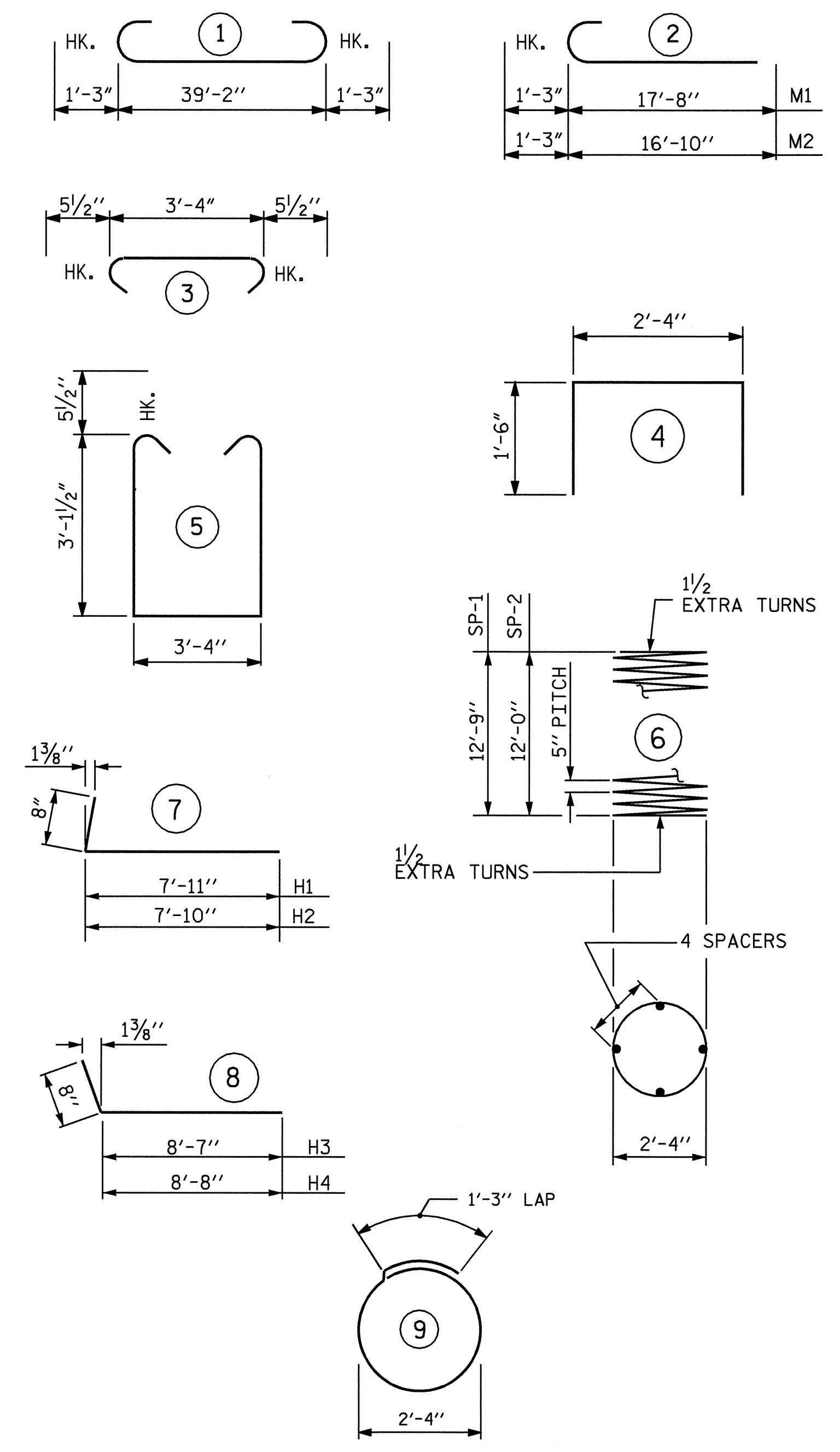
NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT



ELEVATION PLAN
LATERAL GUIDE DETAILS

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

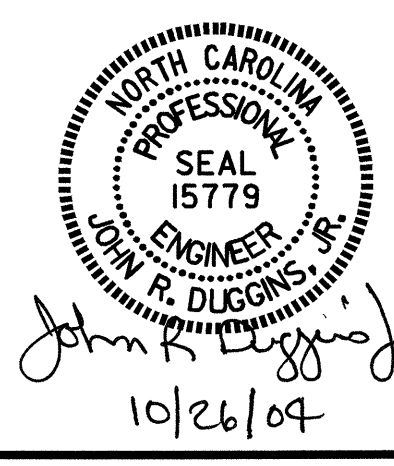
END BENT NO. 1					
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
B1	10	9	1	41'-8"	1417
B2	4	5	STR	39'-2"	163
D1	22	6	STR	1'-6"	50
H1	7	5	7	8'-7"	63
H2	7	5	7	8'-6"	62
H3	7	5	8	9'-3"	68
H4	7	5	8	9'-4"	68
H5	12	4	STR	2'-7"	21
M1	12	9	2	18'-11"	772
M2	12	9	2	18'-1"	738
S1	38	5	5	10'-6"	416
S2	38	5	3	4'-3"	168
S3	4	4	4	5'-4"	14
S4	10	5	9	8'-7"	90
V1	24	4	STR	5'-2"	83
V2	24	4	STR	5'-4"	86
REINFORCING STEEL					4279 LBS
SPIRAL REINFORCING STEEL					
SP-1	1	**	6	244'-1"	255
SP-2	1	**	6	229'-9"	240
TOTAL SPIRAL REINF. STEEL					495 LBS.
CLASS A CONCRETE BREAKDOWN :					
POUR #2 (CAP & LOWER WINGS)					20.8 C.Y.
POUR #3 (UPPER WINGS)					1.6 C.Y.
POUR #4 (LATERAL GUIDES)					0.1 C.Y.
TOTAL					22.5 C.Y.
3'-0" Ø DRILLED PIERS					
DRILLED PIER CONCRETE BREAKDOWN					
POUR 1 - DRILLED PIERS					6.7 C.Y.
3'-0" Ø DRILLED PIERS IN SOIL					12.56 LIN. FT.
3'-0" Ø DRILLED PIERS NOT IN SOIL					13.00 LIN. FT.
CSL TUBES					122.2 LIN. FT.
CROSSHOLE SONIC LOGGING					1 EACH
** THE SP-1 & SP-2 SPIRAL REINFORCING STEEL SHALL BE W-31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BARS.					

PROJECT NO. B-3914
TRANSYLVANIA COUNTY
STATION: 14+59.00 -L-

SHEET 4 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE
END BENT 1



REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-10
1			3			TOTAL SHEETS
2			4			18

DRAWN BY: M. POOLE DATE: 07/04
CHECKED BY: D. HODGE DATE: 09/04