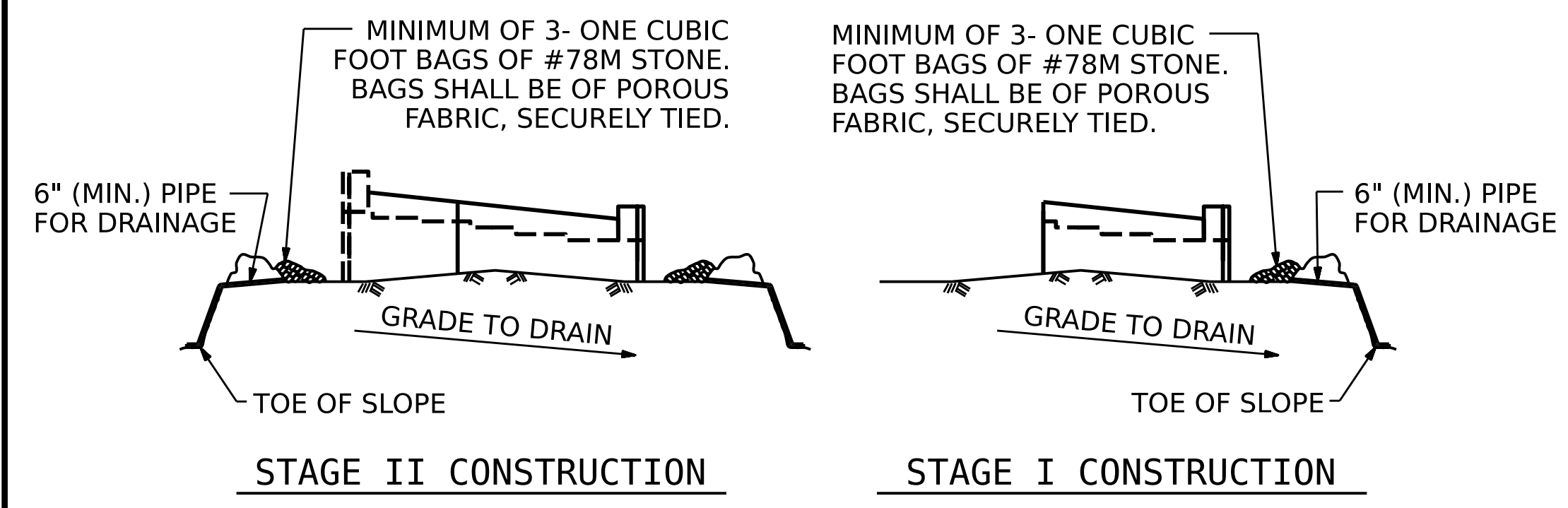


**PILE SPLICE DETAILS**



**TEMPORARY DRAINAGE AT END BENT**

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.

DRAWN BY :	D. RITACCO	DATE :	05/2023
CHECKED BY :	D. TUTTLE	DATE :	06/2023
DESIGN ENGINEER OF RECORD:	D. TUTTLE	DATE :	06/2023

**BILL OF MATERIAL**

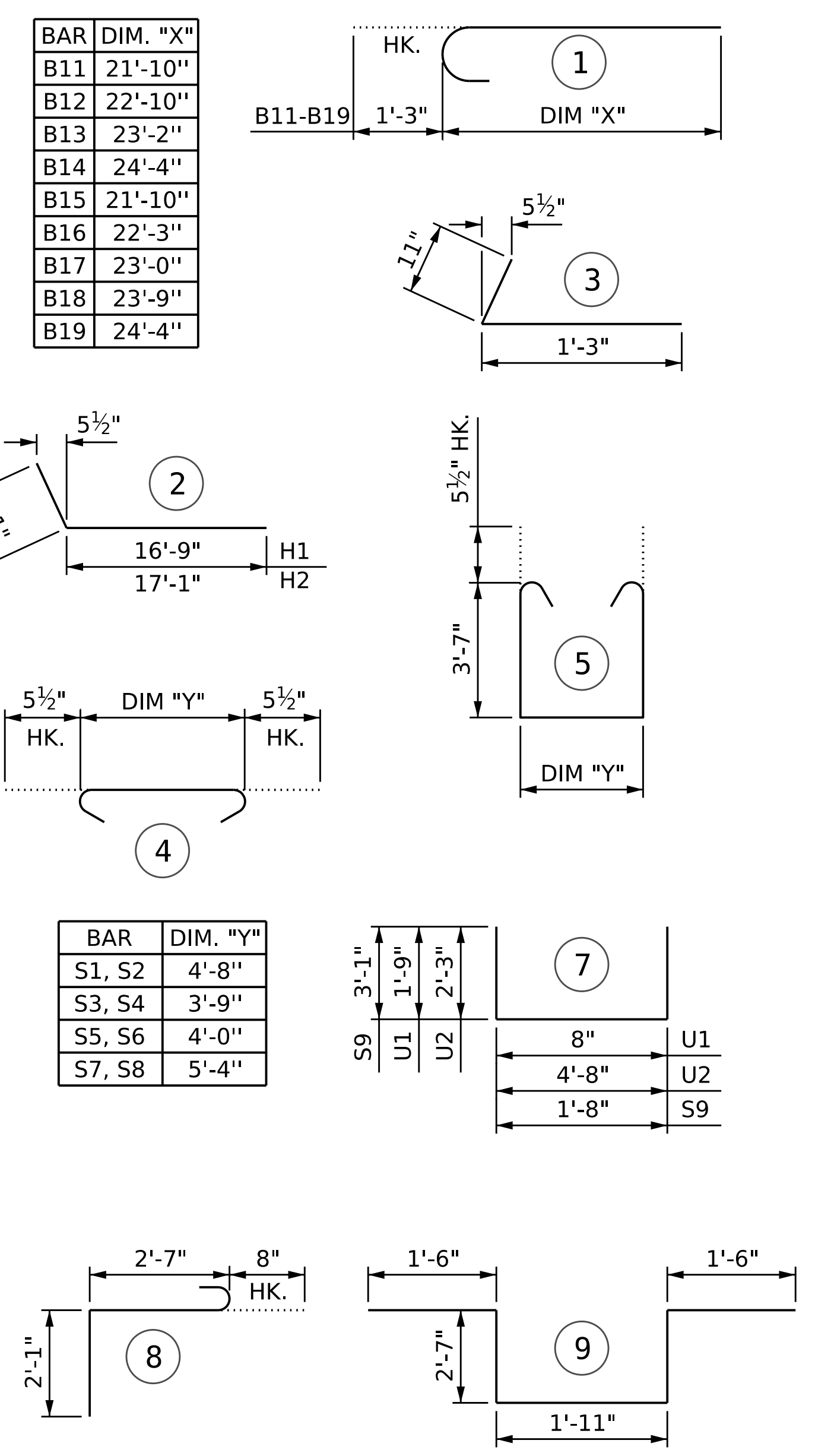
**END BENT 2**

STAGE I						STAGE II					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	13	9	STR	29'-1"	1285	B7	14	4	STR	4'-8"	44
B2	13	9	STR	8'-4"	368	B9	1	4	STR	23'-2"	15
B3	8	5	STR	39'-7"	330	B10	1	4	STR	24'-6"	16
B4	2	5	STR	28'-0"	58	B11	2	9	1	23'-1"	157
B5	8	4	STR	31'-4"	167	B12	2	9	1	24'-1"	164
B6	15	4	STR	7'-11"	79	B13	2	9	1	24'-5"	166
B7	18	4	STR	4'-8"	56	B14	2	9	1	25'-7"	174
B8	15	4	STR	4'-0"	40	B15	1	9	1	23'-1"	78
						B16	1	9	1	23'-6"	80
K1	12	4	STR	39'-0"	313	B17	1	9	1	24'-3"	82
K2	2	4	STR	10'-6"	14	B18	1	9	1	25'-0"	85
K3	2	4	STR	10'-1"	13	B19	1	9	1	25'-7"	87
						B20	4	5	STR	22'-7"	94
H3	11	4	3	2'-2"	16	B21	4	5	STR	25'-2"	105
						B22	4	4	STR	22'-11"	61
S1	51	5	4	5'-7"	297	B23	4	4	STR	24'-3"	65
S2	51	5	5	12'-9"	678						
S9	40	4	7	7'-10"	209	K4	6	5	STR	24'-10"	155
						K5	6	5	STR	25'-2"	157
U1	39	4	7	4'-2"	109	K6	4	4	STR	2'-11"	8
U2	15	4	7	9'-2"	92	K7	8	4	STR	2'-0"	11
V1	54	5	STR	8'-11"	502	H1	13	5	2	17'-8"	240
V2	25	5	STR	10'-6"	274	H2	13	5	2	18'-0"	244
						S1	31	5	4	5'-7"	181
						S2	31	5	5	12'-9"	412
						S3	1	5	4	4'-8"	5
						S4	1	5	5	11'-10"	12
						S5	1	5	4	4'-11"	5
						S6	1	5	5	12'-1"	13
						S7	1	5	4	6'-3"	7
						S8	1	5	5	13'-5"	14
						S9	32	4	7	7'-10"	167
						S10	3	6	8	5'-4"	24
						S11	3	6	9	10'-1"	45
						U1	23	4	7	4'-2"	64
						V1	46	5	STR	8'-11"	428
						V3	42	5	STR	10'-7"	464

REINFORCING STEEL	4,900 LBS.	REINFORCING STEEL	4129 LBS.
CLASS A CONCRETE		CLASS A CONCRETE	
POUR #1 (CAP, COLLARS & LOWER WINGWALL)	31.8 C.Y.	POUR #1 (CAP, COLLARS & LOWER WINGWALL)	23.7 C.Y.
POUR #2 (BACKWALL & UPPER WINGWALL)	7.8 C.Y.	POUR #2 (BACKWALL & UPPER WINGWALL)	9.4 C.Y.
TOTAL = 39.6 C.Y.		TOTAL = 33.1 C.Y.	

NOTE: SEE GEOTECHNICAL FOUNDATION TABLES FOR ADDITIONAL PILE INFORMATION

**BAR TYPES**



ALL BAR DIMENSIONS ARE OUT TO OUT.

PROJECT NO. **B-3186 / B-5898**  
**HAYWOOD** COUNTY  
 STATION: **24+70.00 -L\_ LT-**  
 SHEET 5 OF 5

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE <b>END BENT 2</b> BILL OF MATERIALS & DETAILS					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO.					S3-44
TOTAL SHEETS					50

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

10/13/2023