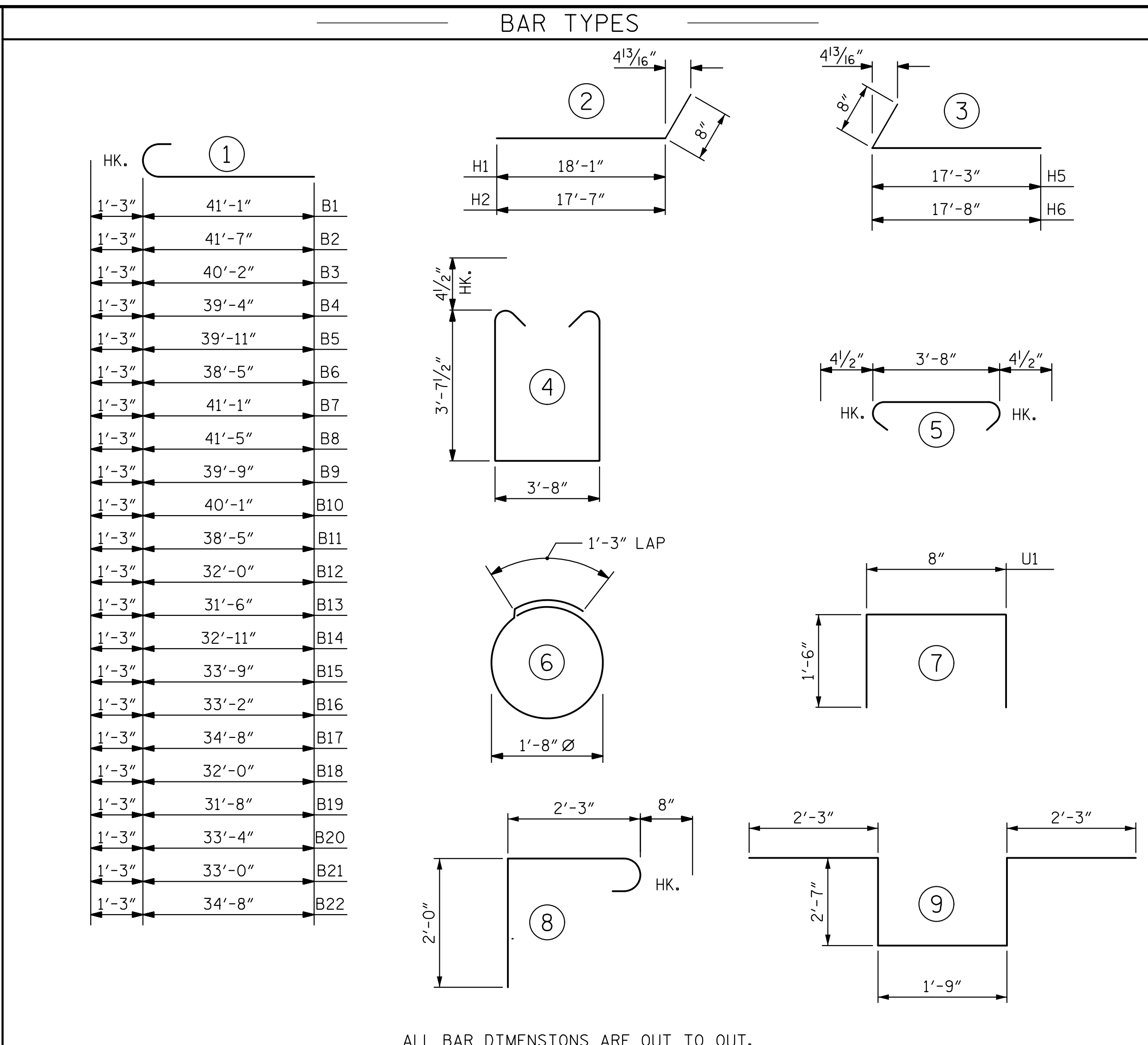


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TCA Engineering, Inc.

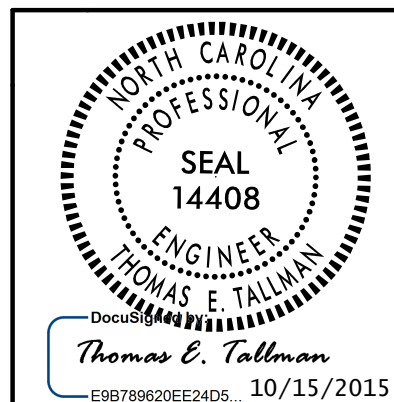
DRAWN BY : D. H. CARTER DATE : OCT 2015
CHECKED BY : K. M. MOBLEY DATE : OCT 2015
DESIGN ENGINEER OF RECORD: T. E. TALLMAN DATE : OCT 2015



(STAGE 1) PREDRILLING FOR PILES HP 12 X 53 STEEL PILES NO: 7 LIN. FT.= 130	(STAGE 2) PREDRILLING FOR PILES HP 12 X 53 STEEL PILES NO: 6 LIN. FT.= 119 NO: 6 LIN. FT.= 372
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BILL OF MATERIAL						BILL OF MATERIAL					
STAGE 1						STAGE 2					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	1	#9	1	42'-4"	144	B12	1	#9	1	33'-3"	113
B2	1	#9	1	42'-10"	146	B13	1	#9	1	32'-9"	111
B3	1	#9	1	41'-5"	141	B14	1	#9	1	34'-2"	116
B4	1	#9	1	40'-7"	138	B15	1	#9	1	35'-0"	119
B5	1	#9	1	41'-2"	140	B16	1	#9	1	34'-5"	117
B6	1	#9	1	39'-8"	135	B17	1	#9	1	35'-11"	122
B7	1	#9	1	42'-4"	144	B18	1	#9	1	33'-3"	113
B8	1	#9	1	42'-8"	145	B19	1	#9	1	32'-11"	112
B9	1	#9	1	41'-0"	139	B20	1	#9	1	34'-7"	118
B10	1	#9	1	41'-4"	141	B21	1	#9	1	34'-3"	116
B11	1	#9	1	39'-8"	135	B22	1	#9	1	35'-11"	122
B23	28	#4	STR	22'-7"	422	B24	9	#4	STR	3'-8"	22
B24	9	#4	STR	3'-8"	22	B25	28	#4	STR	18'-10"	352
H1	9	#4	2	18'-9"	113	H5	9	#4	3	17'-11"	108
H2	9	#4	2	18'-3"	110	H6	9	#4	3	18'-4"	110
H3	6	#4	STR	20'-10"	83	H7	6	#4	STR	20'-0"	80
H4	6	#4	STR	20'-4"	81	H8	6	#4	STR	20'-6"	82
K1	4	#4	STR	5'-3"	14	K2	4	#4	STR	5'-4"	14
K3	24	#4	STR	22'-7"	362	K4	24	#4	STR	17'-8"	283
						K5	8	#4	STR	4'-6"	24
S1	55	#4	4	11'-8"	429	S1	47	#4	4	11'-8"	366
S2	55	#4	5	4'-5"	162	S2	47	#4	5	4'-5"	139
S3	24	#4	6	6'-6"	104	S3	20	#4	6	6'-6"	87
S4	3	#6	8	4'-11"	22	S4	3	#6	8	4'-11"	22
S5	3	#6	9	11'-5"	51	S5	3	#6	9	11'-5"	51
U1	34	#4	7	3'-8"	83	U1	28	#4	7	3'-8"	69
V1	34	#5	STR	8'-2"	290	V1	28	#5	STR	8'-2"	239
V2	44	#5	STR	10'-5"	478	V3	46	#5	STR	10'-1"	484
REINFORCING STEEL (STAGE 1) 4,374 LBS.						REINFORCING STEEL (STAGE 2) 3,811 LBS.					
CLASS A CONCRETE BREAKDOWN (STAGE 1)						CLASS A CONCRETE BREAKDOWN (STAGE 2)					
POUR #1 CAP, LOWER PART OF WINGS & COLLARS 27.6 C.Y.						POUR #1 CAP, LOWER PART OF WINGS & COLLARS 24.9 C.Y.					
POUR #2 BACKWALL AND UPPER PART OF WINGS 11.7 C.Y.						POUR #2 BACKWALL AND UPPER PART OF WINGS 10.1 C.Y.					
TOTAL CLASS A CONCRETE 39.3 C.Y.						TOTAL CLASS A CONCRETE 35.0 C.Y.					
ARCHITECTURAL CONCRETE SURFACE TREATMENT (STAGE 1) 299.9 SQ. FT.						ARCHITECTURAL CONCRETE SURFACE TREATMENT (STAGE 2) 293.8 SQ. FT.					

PROJECT NO. B-4159
JACKSON COUNTY
STATION: 20+16.00 -L-
SHEET 4 OF 4



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE END BENT 1 DETAILS					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					SHEET NO. S-48
					TOTAL SHEETS 64