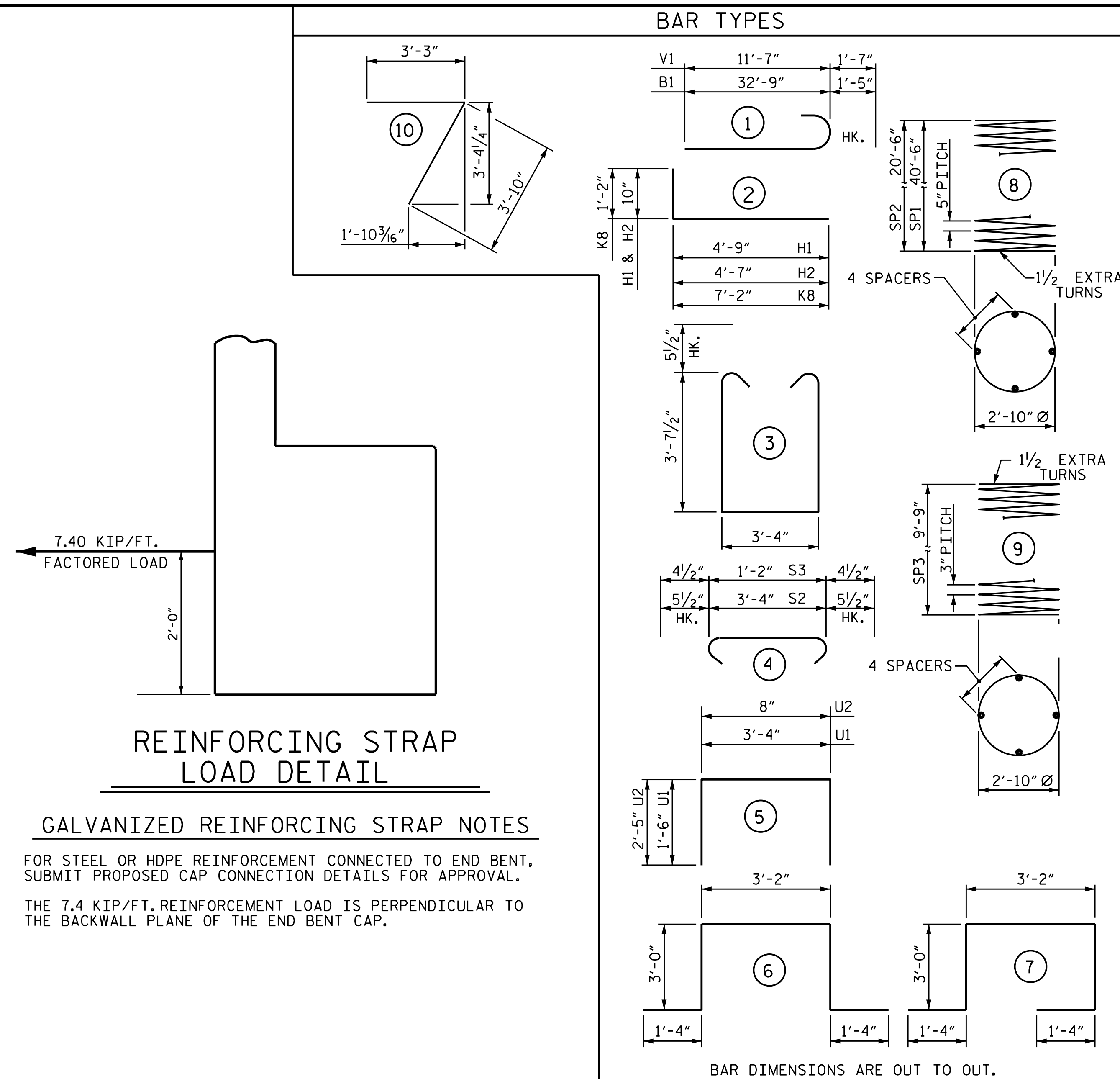


SECTION A-A

REINFORCING STEEL & DETAILS ARE TYPICAL FOR EACH DRILLED PIER. SEE SHEET 3 FOR ABUTMENT WALL R/F.

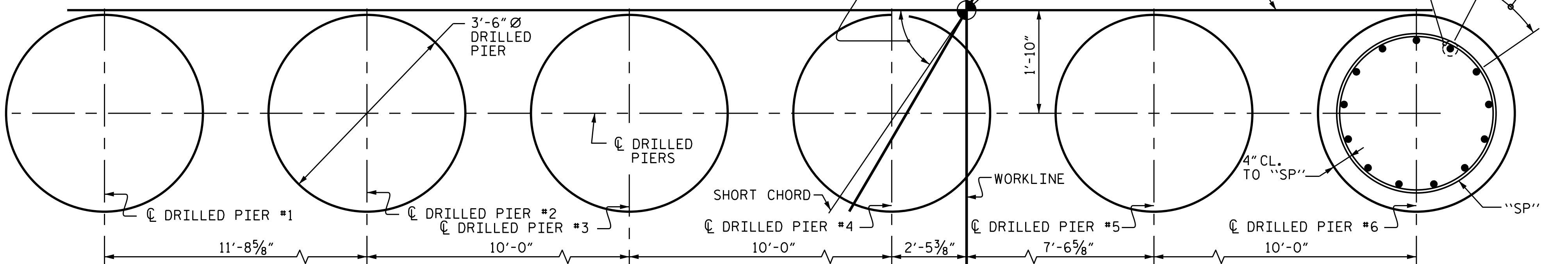


REINFORCING STRAP LOAD DETAIL

GALVANIZED REINFORCING STRAP NOTES

FOR STEEL OR HDPE REINFORCEMENT CONNECTED TO END BENT, SUBMIT PROPOSED CAP CONNECTION DETAILS FOR APPROVAL.
THE 7.4 KIP/FT. REINFORCEMENT LOAD IS PERPENDICULAR TO THE BACKWALL PLANE OF THE END BENT CAP.

BILL OF MATERIAL - END BENT 2											
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	20	#10	1	34'-2"	2940	SP-1	4	*	8	862'-3"	3597
B2	20	#5	STR	31'-3"	652	SP-2	2	*	8	443'-2"	924
B3	10	#4	STR	10'-4"	69	SP-3	6	**	9	354'-9"	1422
B4	5	#4	STR	8'-8"	29						
H1	8	#5	2	5'-7"	47	SPIRAL REINFORCING STEEL = 5943 LBS					
H2	8	#5	2	5'-5"	45	* THE SP1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.					
K1	16	#4	STR	30'-11"	330	** THE SP1 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.					
K2	2	#4	STR	11'-8"	16	CLASS A CONCRETE BREAKDOWN :					
K3	2	#4	STR	3'-11"	5	POUR 2 ABUTMENT WALL ----- 52.0 C.Y.					
K4	4	#4	STR	5'-6"	15	POUR 3 (CAP & LOWER WING)----- 35.4 C.Y.					
K5	19	#5	STR	58'-2"	1153	POUR 4 (BACKWALL & UPPER WING) --- 10.4 C.Y.					
K6	19	#7	STR	57'-7"	2236	TOTAL ----- 97.8 C.Y.					
K7	19	#5	STR	7'-5"	147	3'-6" Ø DRILLED PIERS					
K8	19	#7	2	8'-4"	324	DRILLED PIER CONCRETE :					
K9	10	#5	10	7'-1"	74	POUR 1 ----- 73.4 C.Y.					
M1	52	#11	STR.	48'-7"	13422						
M2	26	#11	STR.	28'-7"	3948						
S1	57	#5	3	11'-6"	684						
S2	57	#5	4	4'-3"	253						
S3	220	#4	4	1'-11"	282						
U1	20	#4	5	6'-4"	85						
U2	36	#4	5	5'-6"	132						
U3	95	#6	6	11'-10"	1688						
U4	19	#6	7	11'-10"	338						
V1	78	#11	1	13'-2"	5456						
V2	88	#5	STR	7'-3"	665						
V3	4	#5	STR	7'-8"	32						
V4	4	#5	STR	7'-11"	33						
V5	4	#5	STR	8'-2"	34						
V6	4	#5	STR	8'-5"	35						
V7	4	#5	STR	8'-8"	36						
V8	8	#5	STR	8'-11"	74						
V9	14	#5	STR	9'-10"	144						
V10	109	#5	STR	9'-1"	1033						
V11	8	#5	STR	11'-7"	97						
				REINFORCING STEEL =		36553 LBS.					



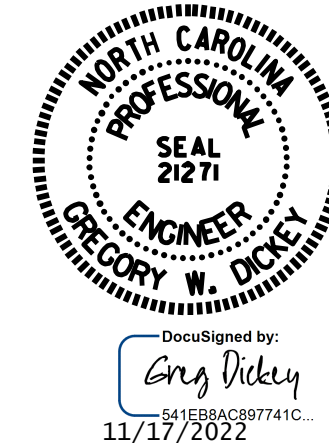
PLAN OF DRILLED PIERS

REINFORCING STEEL AND DIMENSIONS ARE TYPICAL FOR EACH DRILLED PIER.

ORIENT #11M1 BARS SUCH THAT #11V" BARS ARE AS SHOWN TO PROVIDE CLEARANCE OF #10B1 BARS IN BOTTOM OF END BENT CAP

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PROJECT NO. B-5989
MADISON COUNTY
STATION: 16+18.00 -L-
SHEET 6 OF 7



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE
END BENT #2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

S-30
TOTAL SHEETS
35

\$LASTSAVEDDATE\$
\$FILEL\$

DRAWN BY : KEITH D LAYNE DATE : 09/22
CHECKED BY : G. DICKEY DATE : 09/22
DESIGN ENGINEER OF RECORD: G. DICKEY DATE : 09/22