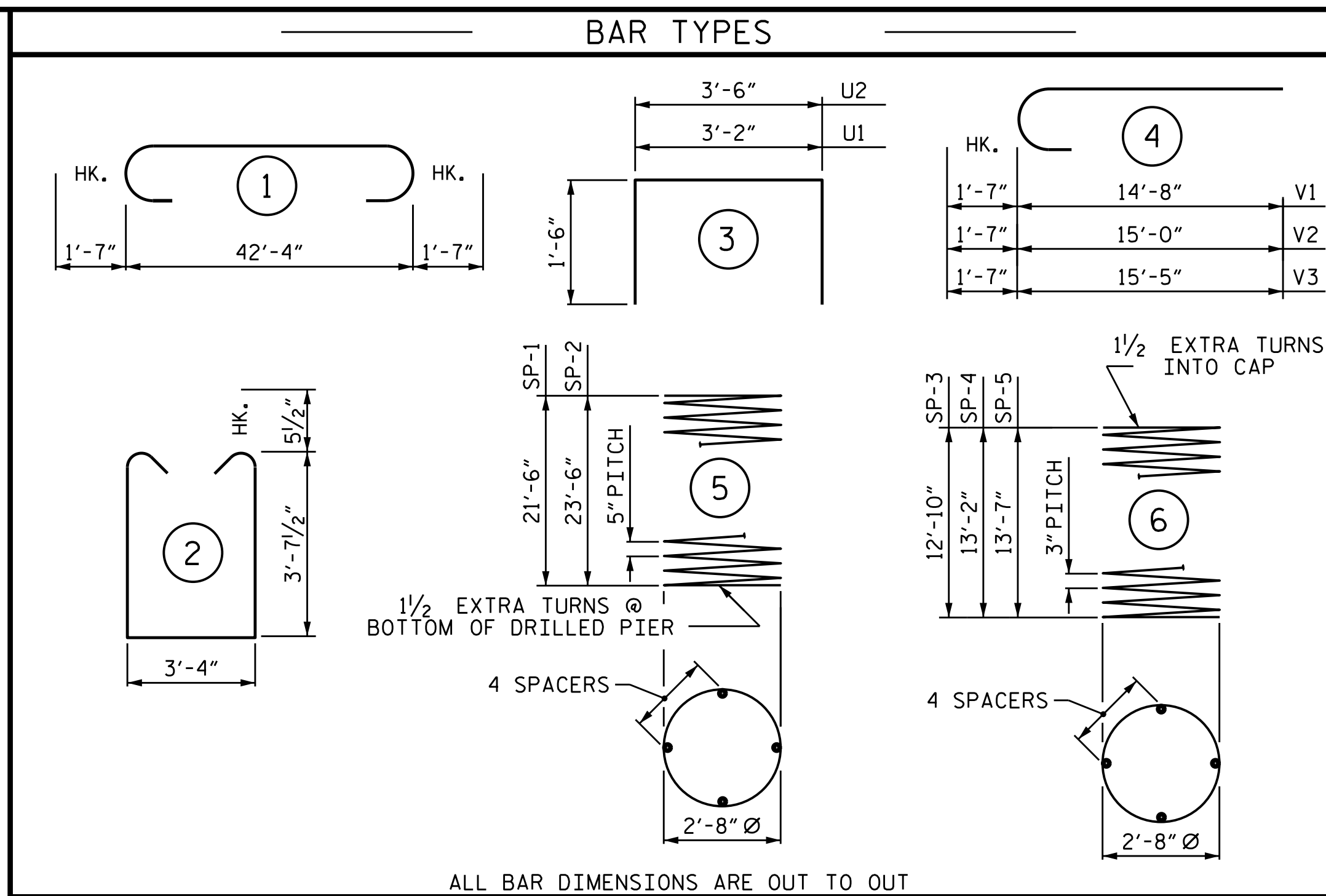
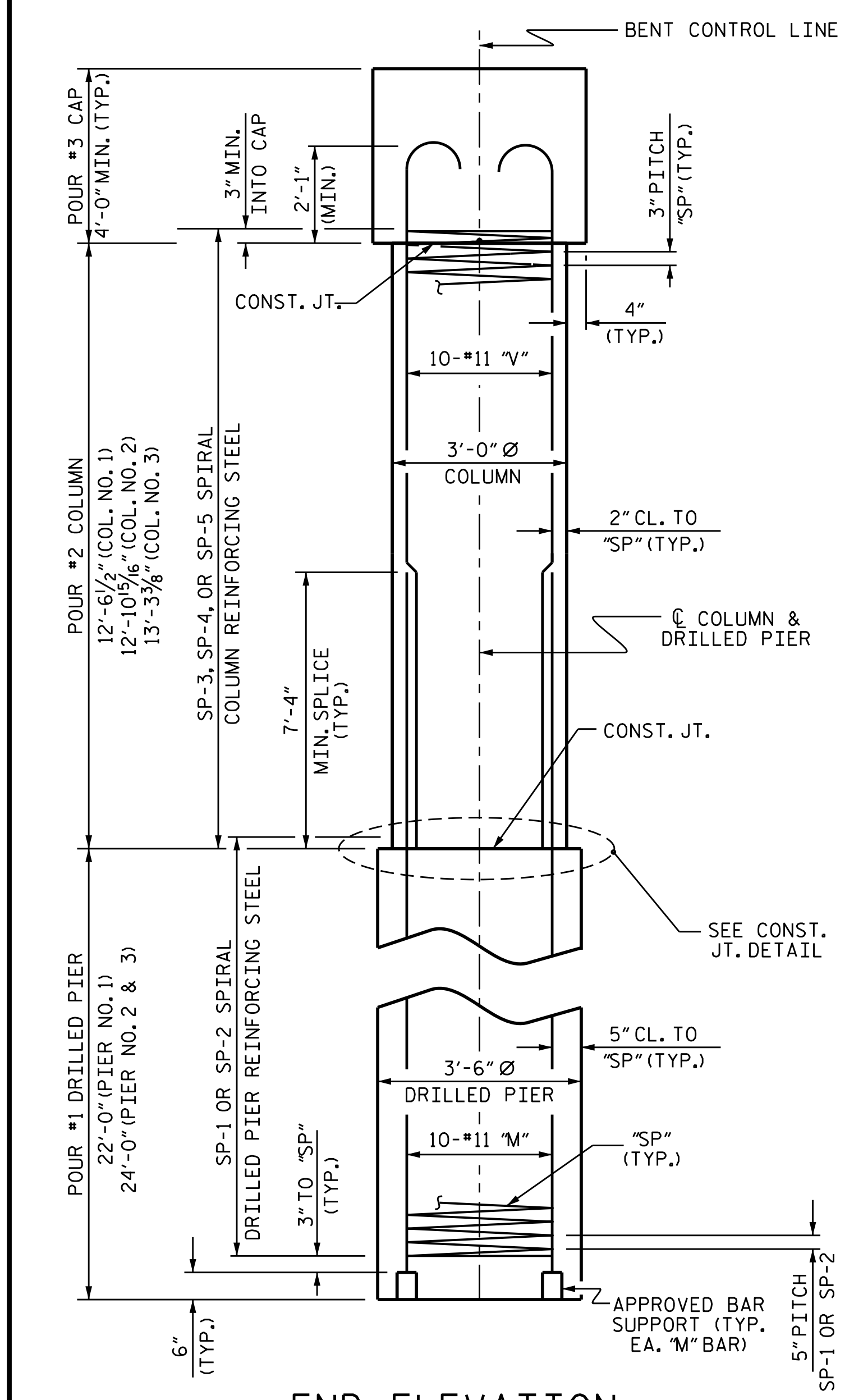


PLAN OF DRILLED PIERS & COLUMNS

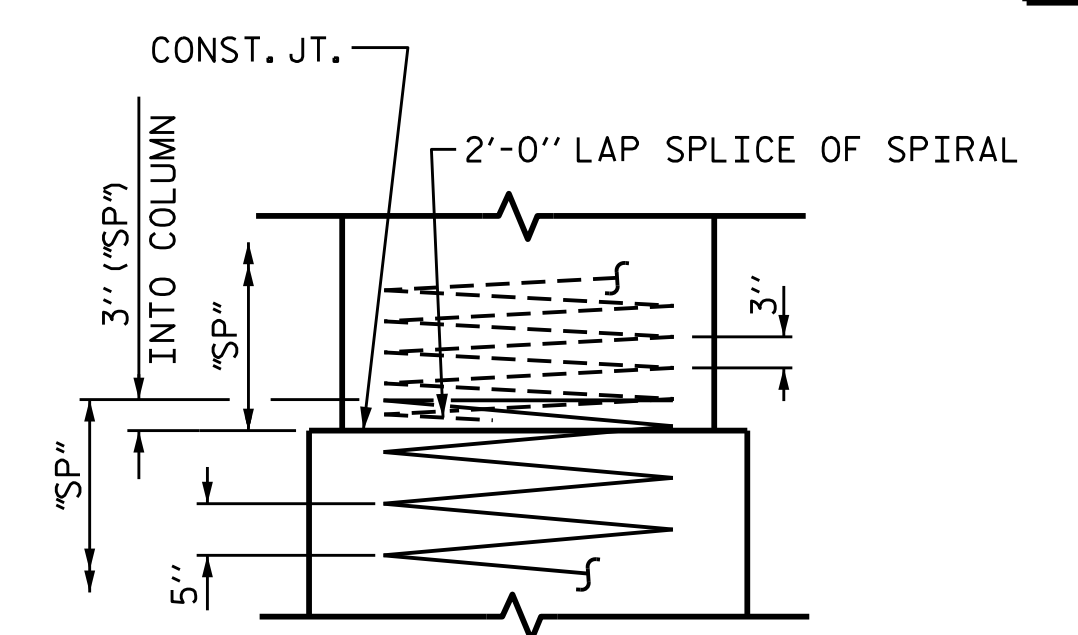


ALL BAR DIMENSIONS ARE OUT TO OUT

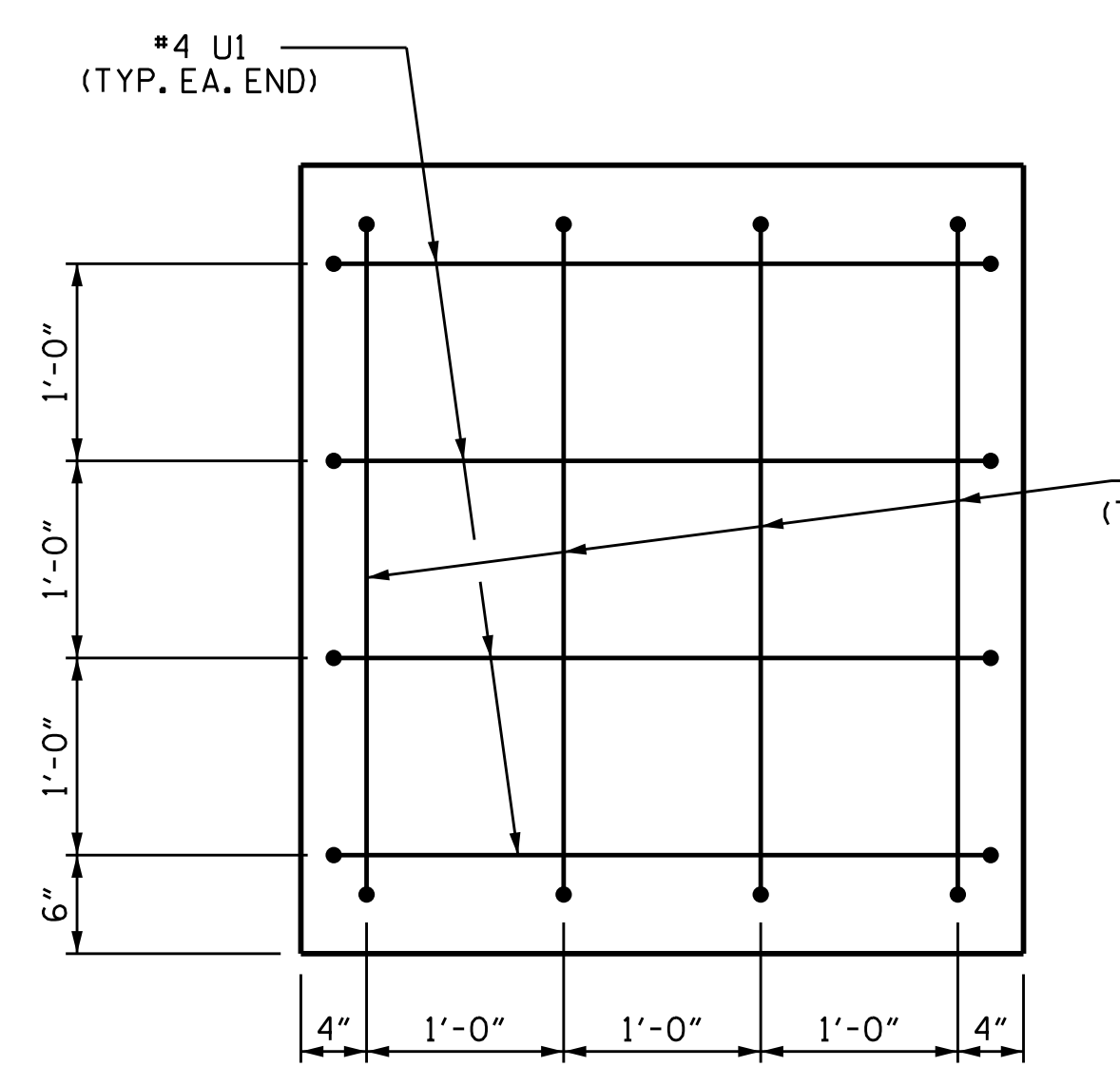
BILL OF MATERIAL FOR ONE BENT					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	10	#11	1	45'-6"	2417
B2	14	#5	STR	42'-6"	621
D1	44	#8	STR	2'-3"	264
M1	10	#11	STR	31'-10"	1691
M2	20	#11	STR	33'-10"	3595
S1	74	#5	2	11'-6"	888
U1	8	#4	3	6'-2"	33
U2	8	#4	3	6'-6"	35
V1	10	#11	4	16'-3"	863
V2	10	#11	4	16'-7"	881
V3	10	#11	4	17'-0"	903
REINFORCING STEEL (FOR ONE BENT)					12191 LBS.
SPIRAL COLUMN REINFORCING STEEL (FOR ONE BENT)					2362 LBS.
* THE SP-1 & SP-2 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR					
** THE SP-3 THRU SP-5 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR					



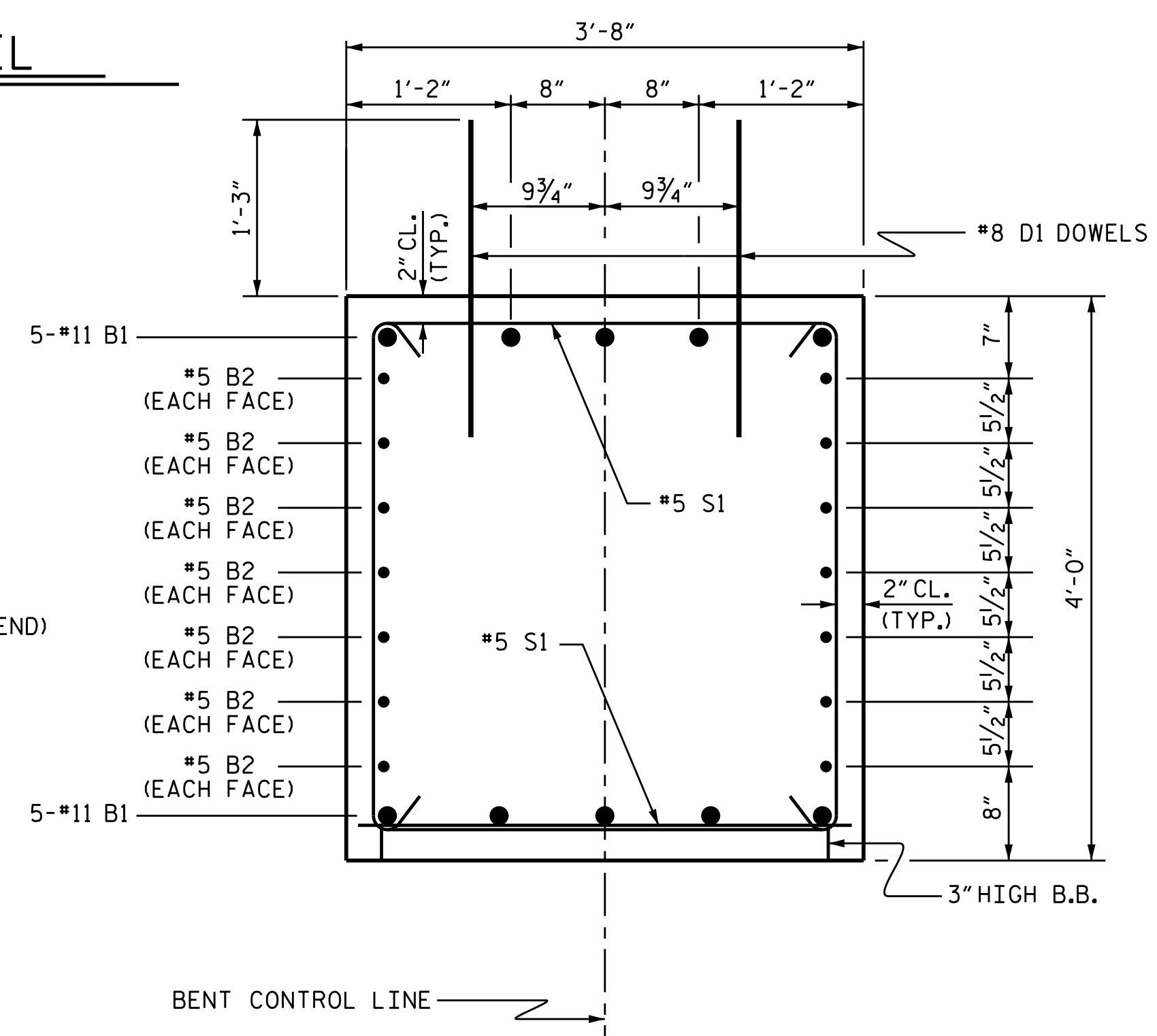
END ELEVATION



CONSTRUCTION JOINT DETAIL



END OF CAP VIEW (TYPICAL BOTH ENDS)

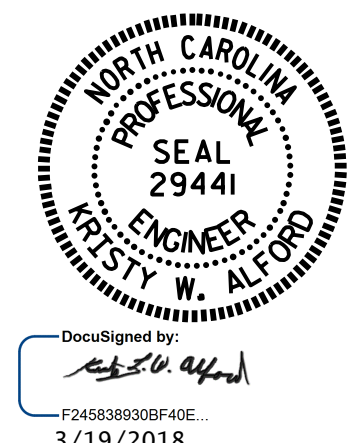


SECTION THRU CAP

CLASS A CONCRETE BREAKDOWN (FOR ONE BENT)	
POUR #2 (COLUMNS)	10.1 C.Y.
POUR #3 (CAP)	23.3 C.Y.
TOTAL CLASS A CONCRETE	33.4 C.Y.

DRILLED PIERS: (FOR ONE BENT)	
DRILLED PIER CONCRETE	
POUR #1 (DRILLED PIERS)	24.9 C.Y.
3'-6" Ø DRILLED PIER NOT IN SOIL	30 LIN. FT.
3'-6" Ø DRILLED PIER IN SOIL	40 LIN. FT.
PERMANENT STEEL CASING FOR 3'-6" Ø DRILLED PIER	52 LIN. FT.
CSL TUBES	298 LIN. FT.

PROJECT NO. B-5320
GRANVILLE COUNTY
 STATION: 15+98.00 -L-
 SHEET 2 OF 2



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUBSTRUCTURE
 BENT No. 1

DRAWN BY : S. N. MEGAHED DATE : 01/2018
 CHECKED BY : R. L. CHESSON DATE : 01/2018
 DESIGN ENGINEER OF RECORD : R. L. CHESSON DATE : 01/2018

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-22
1			3			TOTAL SHEETS
2			4			26