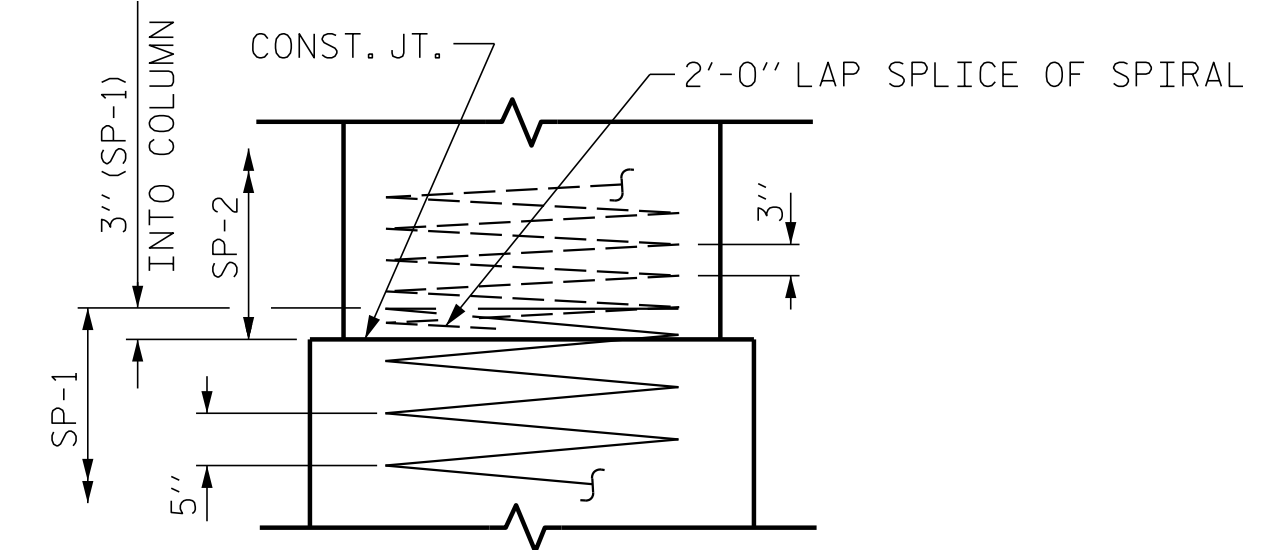
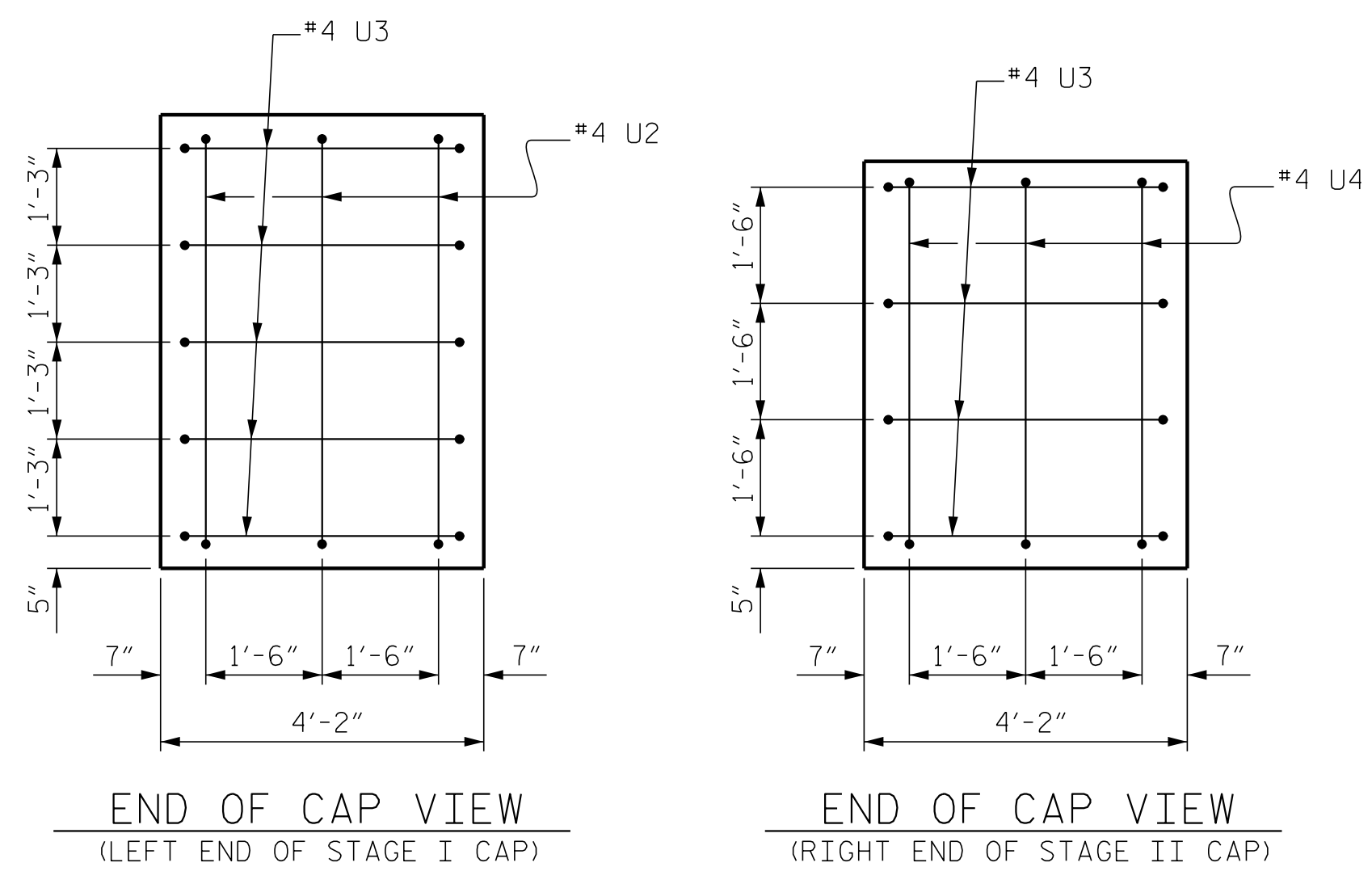
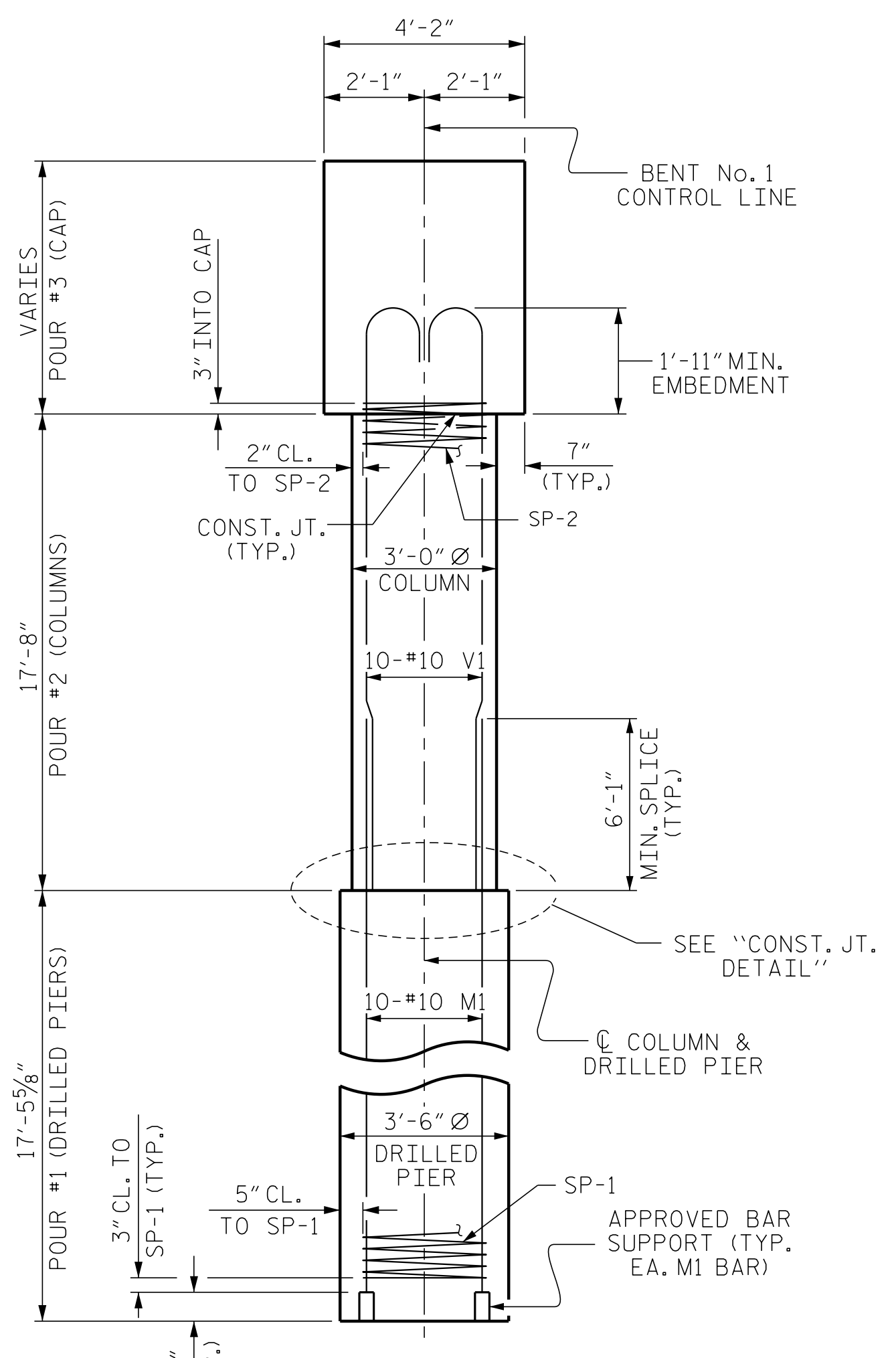


### CONSTRUCTION JOINT DETAIL

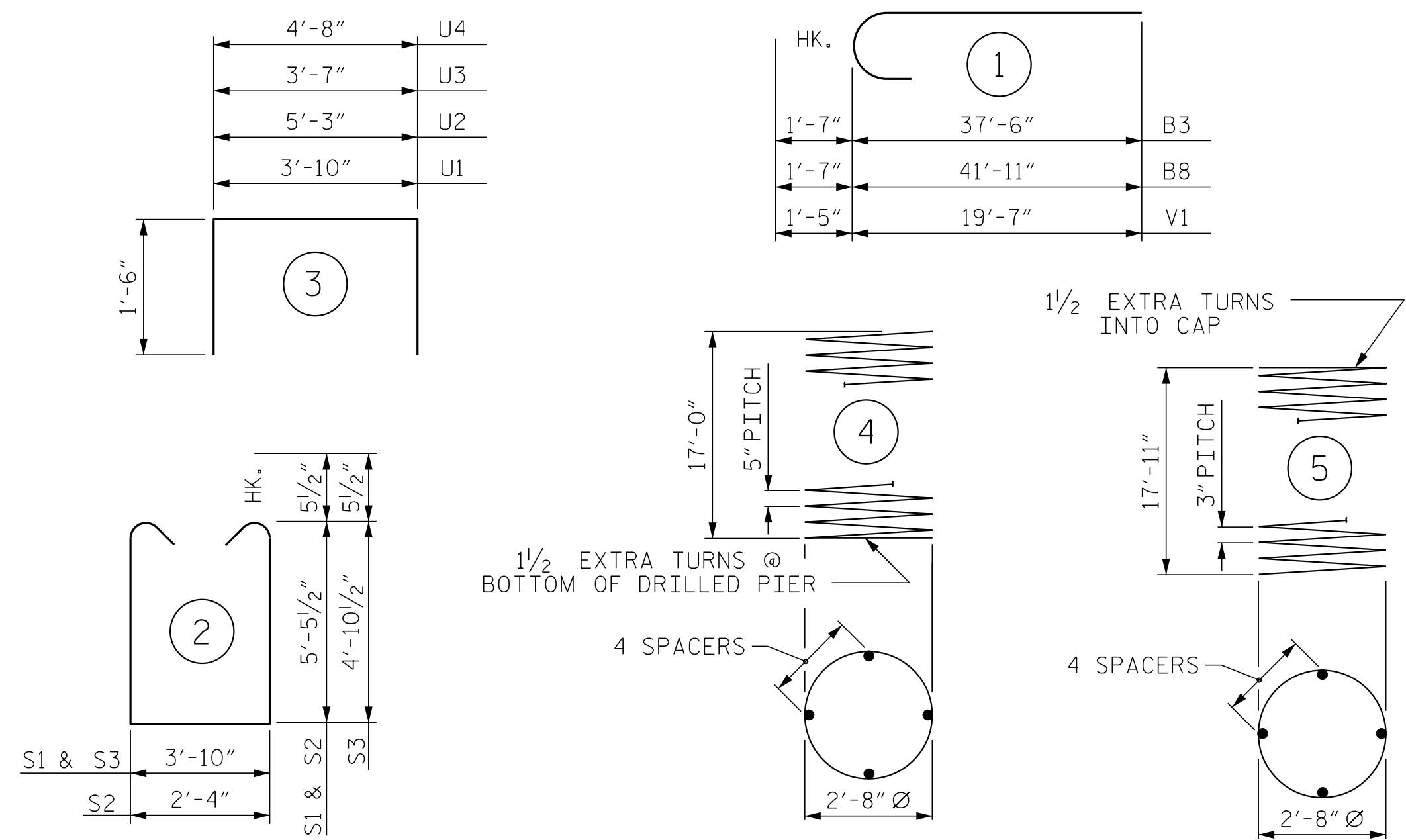


### END ELEVATION



END OF CAP VIEW (LEFT END OF STAGE I CAP)      END OF CAP VIEW (RIGHT END OF STAGE II CAP)

### BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

TOTAL QUANTITIES	
REINFORCING STEEL	28,625 LBS.
SPIRAL COLUMN REINFORCING STEEL	4,610 LBS.
CLASS "A" CONCRETE TOTAL	123.4 C.Y.
DRILLED PIERS:	
DRILLED PIER CONCRETE POUR #1 (DRILLED PIERS)	37.3 C.Y.
3'-6" Ø DRILLED PIER IN SOIL	29.82 LIN. FT.
3'-6" Ø DRILLED PIER NOT IN SOIL	75.00 LIN. FT.
CSL TUBES	456.00 LIN. FT.
CSL TESTING	1 EA.

### BILL OF MATERIAL

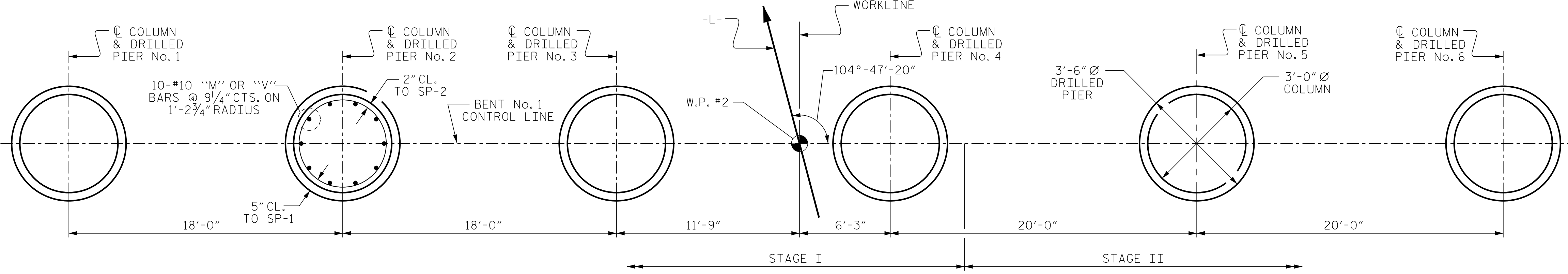
#### BENT No. 1

STAGE I					STAGE II						
BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	16	#11	STR	41'-1"	3492	B6	8	#11	STR	41'-0"	1743
B2	20	#6	STR	34'-7"	1039	B7	8	#6	STR	41'-0"	493
B3	16	#11	1	39'-1"	3322	B8	8	#11	1	43'-6"	1849
B4	16	#4	STR	21'-1"	225	B9	16	#4	STR	11'-10"	126
B5	8	#11	STR	21'-7"	917	B10	8	#4	STR	6'-6"	35
						B11	1	#4	STR	3'-10"	3
M1	40	#10	STR	26'-1"	4489	M1	20	#10	STR	26'-1"	2245
S1	75	#5	2	15'-8"	1226	S1	16	#5	2	15'-8"	261
S2	30	#5	2	14'-2"	443	S3	54	#5	2	14'-6"	817
U1	53	#4	3	6'-10"	242	U1	36	#4	3	6'-10"	164
U2	3	#4	3	8'-3"	17	U3	4	#4	3	6'-7"	18
U3	5	#4	3	6'-7"	22	U4	3	#4	3	7'-8"	15
V1	40	#10	1	21'-0"	3615	V1	20	#10	1	21'-0"	1807
REINFORCING STEEL					19,049 LBS.	REINFORCING STEEL					9,576 LBS.
SP-1	4	*	4	349'-7"	1458	SP-1	2	*	4	349'-7"	729
SP-2	4	**	5	604'-5"	1615	SP-2	2	**	5	604'-5"	808
SPIRAL COLUMN REINFORCING STEEL					3,073 LBS.	SPIRAL COLUMN REINFORCING STEEL					1,537 LBS.

\* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR  
 \*\* THE SP-2 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR

CLASS A CONCRETE BREAKDOWN		CLASS A CONCRETE BREAKDOWN	
POUR #2 (COLUMNS)	18.5 C.Y.	POUR #2 (COLUMNS)	9.3 C.Y.
POUR #3 (CAP)	59.0 C.Y.	POUR #3 (CAP)	36.6 C.Y.
<b>TOTAL CLASS A CONCRETE</b>	<b>77.5 C.Y.</b>	<b>TOTAL CLASS A CONCRETE</b>	<b>45.9 C.Y.</b>
DRILLED PIERS:		DRILLED PIERS:	
DRILLED PIER CONCRETE POUR #1 (DRILLED PIERS)	24.9 C.Y.	DRILLED PIER CONCRETE POUR #1 (DRILLED PIERS)	12.4 C.Y.
3'-6" Ø DRILLED PIER IN SOIL	19.88 LIN. FT.	3'-6" Ø DRILLED PIER IN SOIL	9.94 LIN. FT.
3'-6" Ø DRILLED PIER NOT IN SOIL	50.00 LIN. FT.	3'-6" Ø DRILLED PIER NOT IN SOIL	25.00 LIN. FT.
CSL TUBES	304 LIN. FT.	CSL TUBES	152 LIN. FT.
CSL TESTING	1 EA.	CSL TESTING	1 EA.

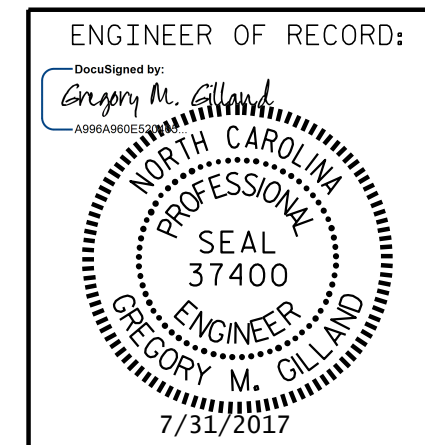
PROJECT NO. I-5506  
 WAKE COUNTY  
 STATION: 50+61.09 -L-  
 SHEET 3 OF 3



### PLAN OF DRILLED PIERS AND COLUMNS

(REINFORCING STEEL AND DIMENSIONS ARE TYPICAL FOR EACH COLUMN & DRILLED PIER)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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 LICENSE NO. F-0377

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE BENT No. 1					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. S01-37	
TOTAL SHEETS	46

DRAWN BY: D. HODGE DATE: 9/16  
 CHECKED BY: B.C. HUNT DATE: 12/16

\$FILE\$ \$DATE\$ \$TIME\$