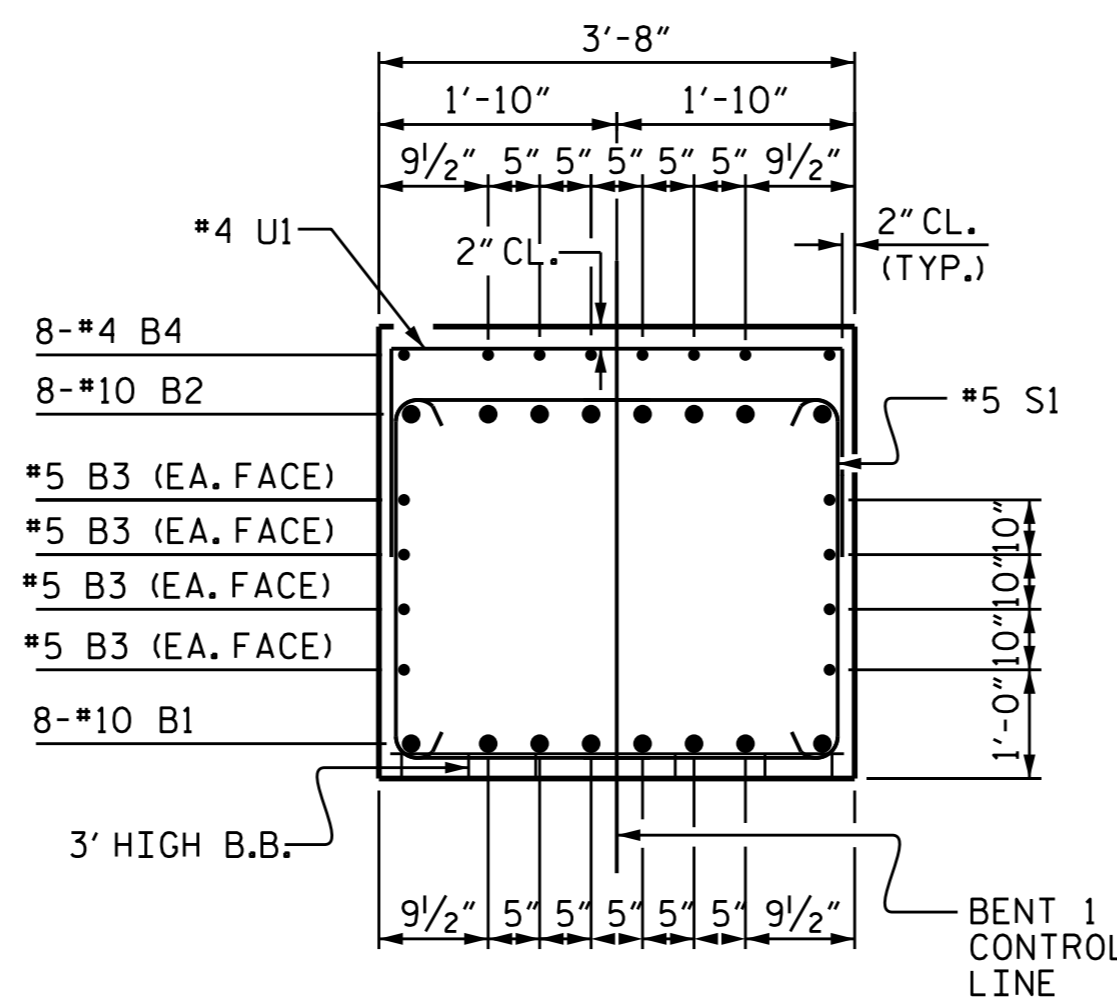
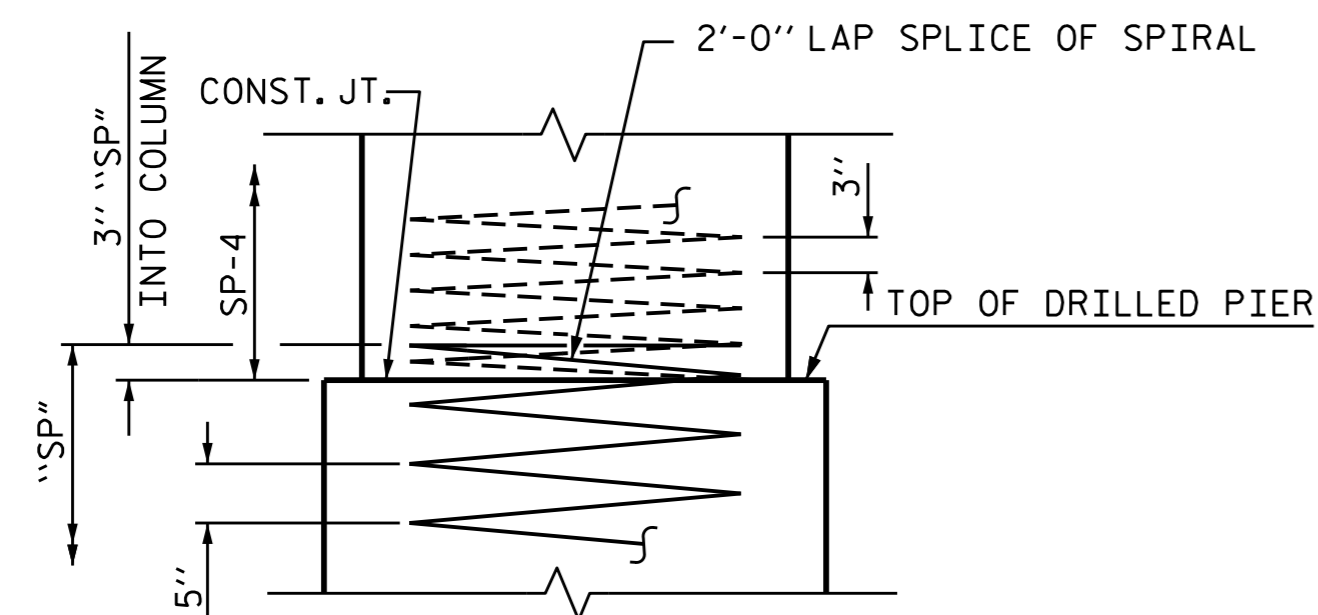


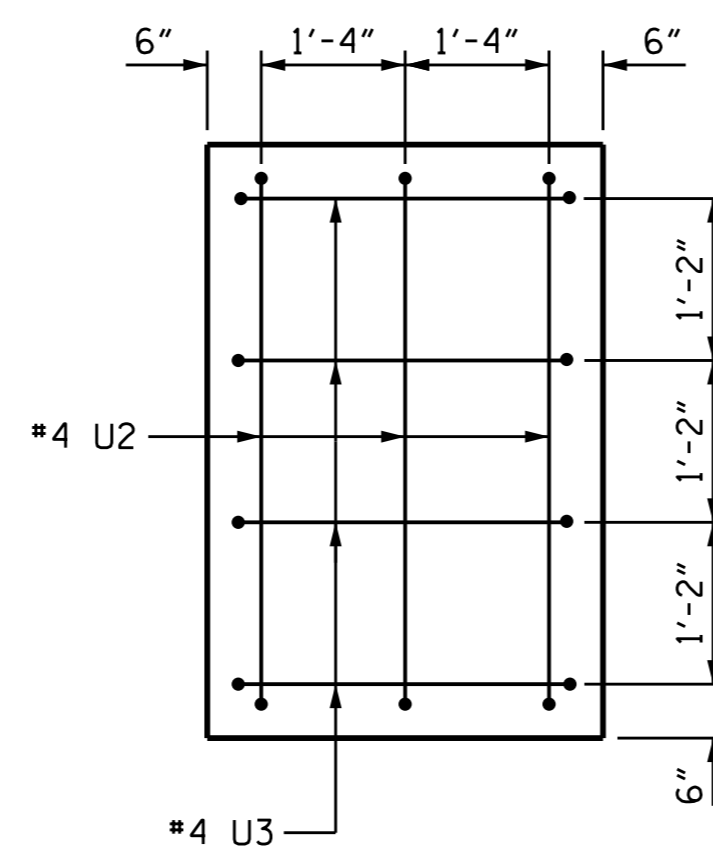
SECTION A-A



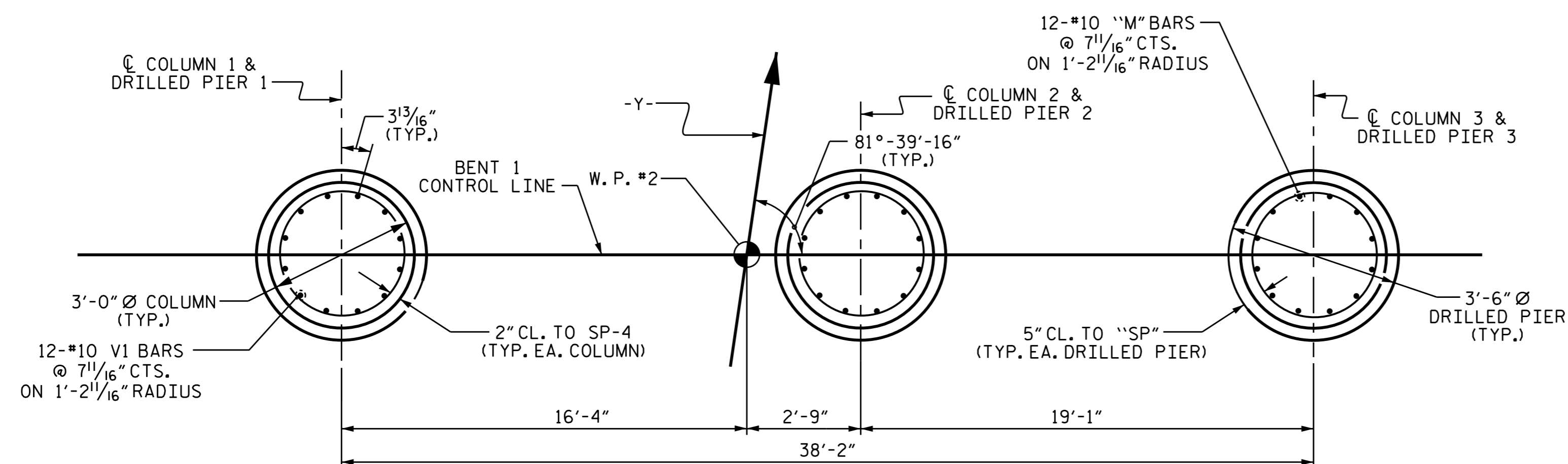
SECTION B-B



CONSTRUCTION JOINT DETAIL



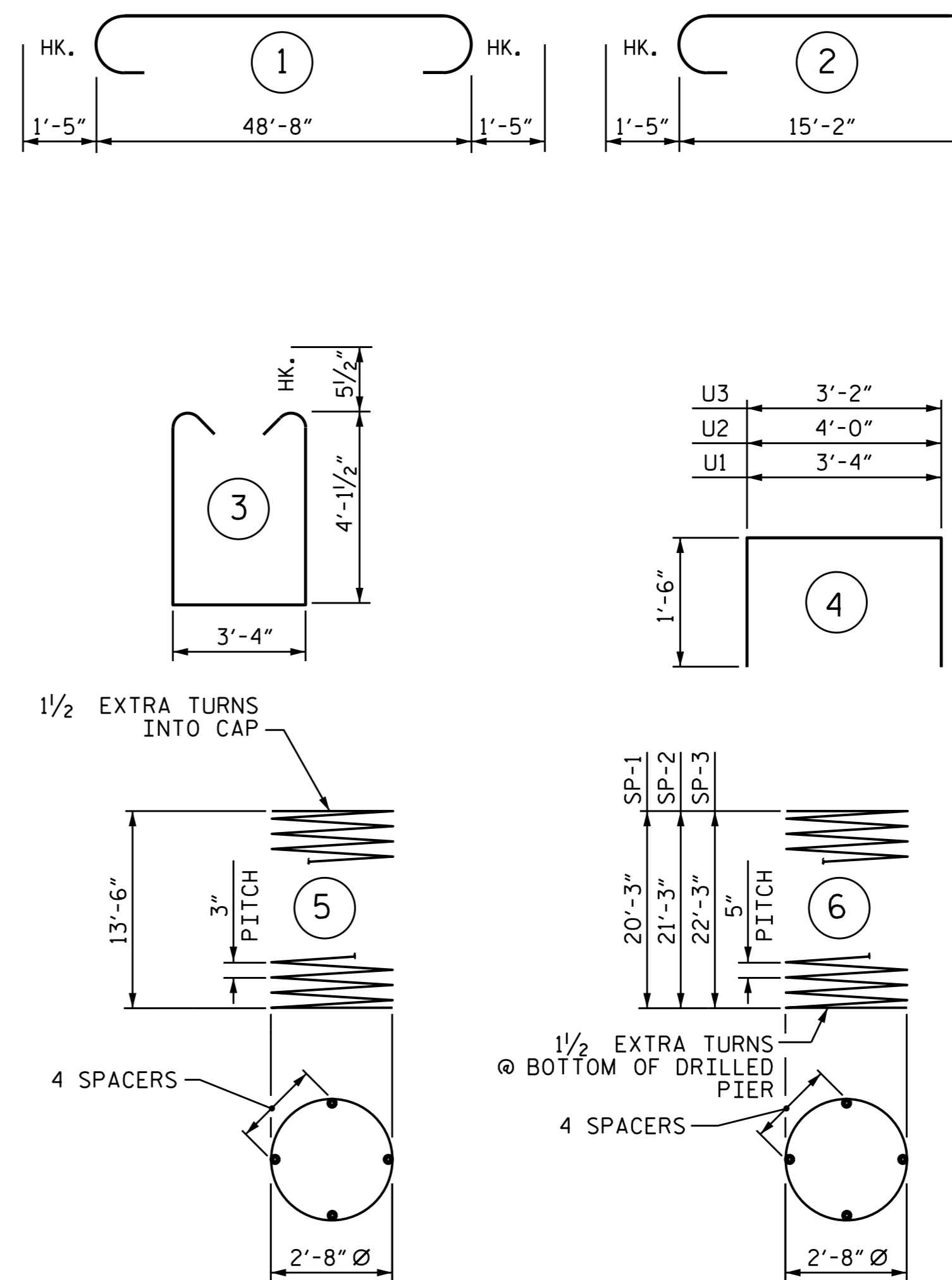
END VIEW



PLAN OF COLUMNS & DRILLED PIERS

(REINFORCING STEEL AND DIMENSION ARE TYPICAL FOR ALL COLUMNS AND DRILLED PIERS)

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

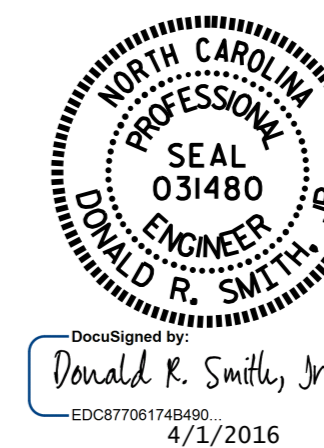
BENT 1					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#10	STR	48'-10"	1681
B2	8	#10	1	51'-6"	1773
B3	8	#5	STR	48'-10"	407
B4	8	#4	STR	14'-11"	80
M1	12	#10	STR	29'-7"	1528
M2	12	#10	STR	30'-7"	1579
M3	12	#10	STR	31'-7"	1631
S1	64	#5	3	12'-6"	834
U1	44	#4	4	6'-4"	186
U2	6	#4	4	7'-0"	28
U3	8	#4	4	6'-2"	33
V1	36	#10	2	16'-7"	2569
REINFORCING STEEL					LBS. 12,329
SP-1	1	**	6	413'-4"	431
SP-2	1	**	6	431'-10"	450
SP-3	1	**	6	452'-5"	472
SP-4	3	*	5	457'-11"	918
SPIRAL COLUMN REINFORCING STEEL					LBS. 2,271
CLASS A CONCRETE BREAKDOWN					
POUR #2 - COLUMNS	C.Y.	10.4			
POUR #3 - CAP	C.Y.	31.2			
TOTAL	C.Y.	41.6			
DRILLED PIER QUANTITIES					
DRILLED PIER CONCRETE POUR #1 (DRILLED PIERS)	C.Y.	23.3			
3'-6" Ø DRILLED PIER IN SOIL	LIN. FT.	42.25			
3'-6" Ø DRILLED PIER NOT IN SOIL	LIN. FT.	23.00			
CSL TUBES	LIN. FT.	279.00			
* THE SP-4 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.					
* THE SP-1 THROUGH SP-3 SPIRAL REINFORCING STEEL SHALL BE W-31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.					

PROJECT NO. U-3308  
 DURHAM COUNTY  
 STATION: 23+00.86-LALT-

SHEET 2 OF 2

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

SUBSTRUCTURE  
 BENT 1



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-27
1			3			TOTAL SHEETS 32
2			4			

DRAWN BY: J.D. HAWK DATE: 8/25/14  
 CHECKED BY: P.S. ADKINS DATE: 9/3/14  
 DESIGN ENGINEER OF RECORD: D.R. SMITH DATE: 11/3/14

STR. #2