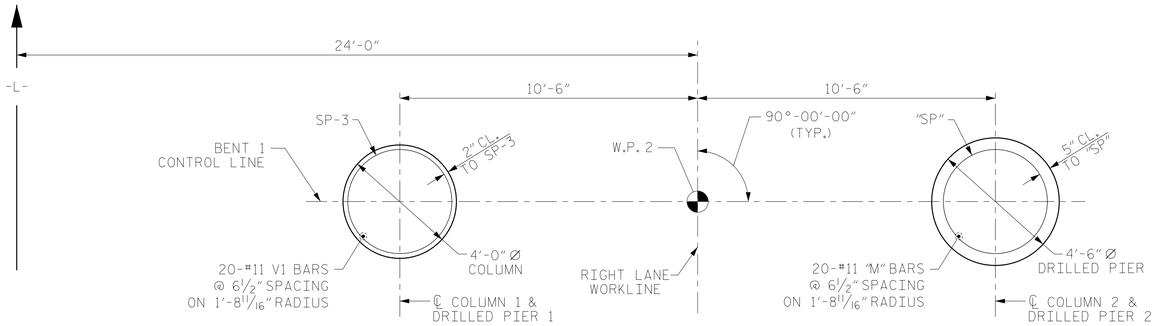
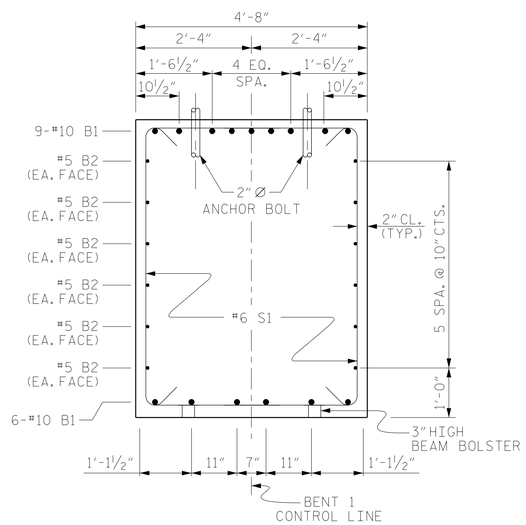


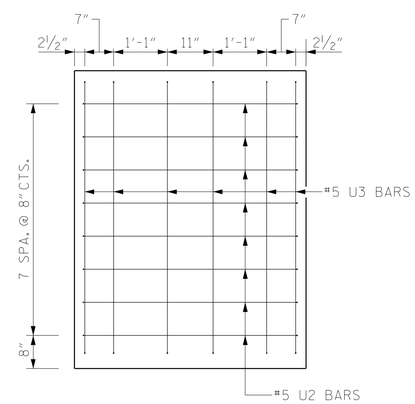
TYP. COLUMN REINFORCEMENT

TYP. DRILLED PIER REINFORCEMENT

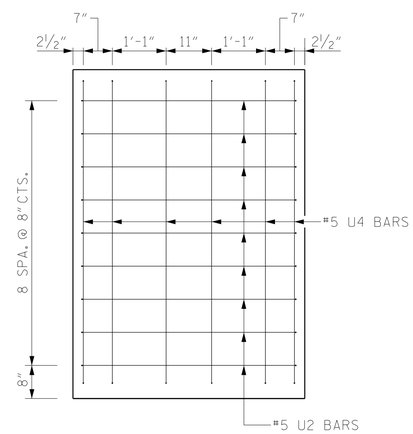
PLAN OF DRILLED PIERS & COLUMNS



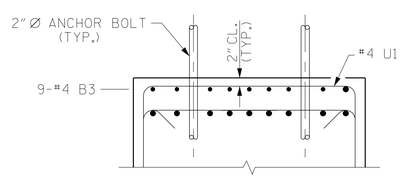
SECTION A-A



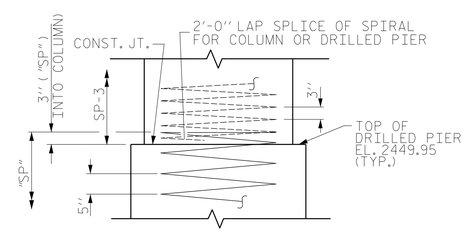
VIEW B-B



VIEW D-D

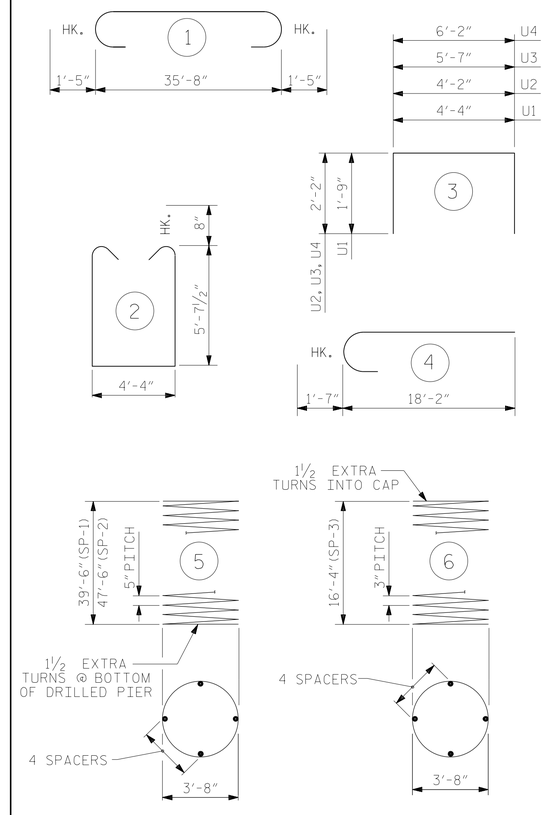


SECTION C-C



CONSTRUCTION JOINT DETAIL

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

BENT 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	15	#10	1	38'-6"	2485
B2	12	#5	STR	35'-8"	446
B3	9	#4	STR	4'-8"	28
B4	9	#4	STR	9'-2"	55
M1	20	#11	STR	52'-3"	5552
M2	20	#11	STR	60'-0"	6376
S1	102	#6	2	16'-11"	2592
U1	49	#4	3	7'-10"	256
U2	17	#5	3	8'-6"	151
U3	6	#5	3	9'-11"	62
U4	6	#5	3	10'-6"	66
V1	40	#11	4	19'-9"	4197
REINFORCING STEEL				LBS.	22266
SP-1	1	*	5	1094'-4"	1141
SP-2	1	*	5	1312'-6"	1369
SP-3	2	**	6	761'-4"	1017
SPIRAL COLUMN REINFORCING STEEL				LBS.	3527

CLASS A CONCRETE BREAKDOWN

POUR #2 - COLUMNS	C.Y.	15.0
POUR #3 - CAP	C.Y.	39.0
TOTAL CLASS A CONCRETE	C.Y.	54.0

DRILLED PIERS

DRILLED PIER CONCRETE POUR #1 (DRILLED PIERS)	C.Y.	51.8
4'-6" DIA. DRILLED PIER NOT IN SOIL	LIN. FT.	30.0
4'-6" DIA. DRILLED PIER IN SOIL	LIN. FT.	58.0
CSL TUBES	LIN. FT.	455.0
PERM. STEEL CASING FOR 4'-6" DIA. DRILLED PIER	LIN. FT.	28.0

* 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 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.

PROJECT NO. R-2519B
YANCEY/MITCHELL COUNTY
STATION: 122+22.50 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

BENT 1 DETAILS & BILL OF MATERIAL

RIGHT LANE

NORTH CAROLINA PROFESSIONAL SEAL 18442 ENGINEER RICHARD LEON BOLLINGER, JR.

Digitally signed by Richard L Bollinger
Date: 2014.08.26 16:13:54 -04'00'

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North Carolina License Nos. 50073 * F-0493 * C-28

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

SHEET NO. S-122
TOTAL SHEETS 194

DRAWN BY : MKO DATE : 07/2013
CHECKED BY : JMR DATE : 07/2013
DESIGN ENGINEER OF RECORD : JMR DATE : 07/2013

DWG. No. 068