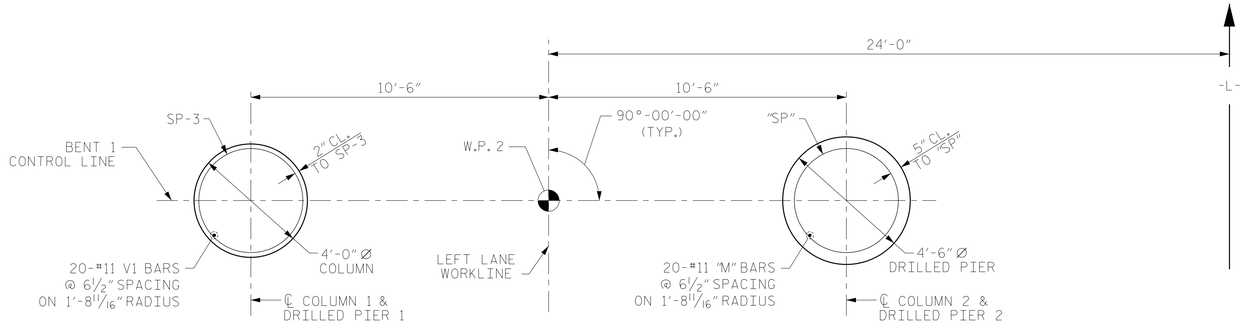
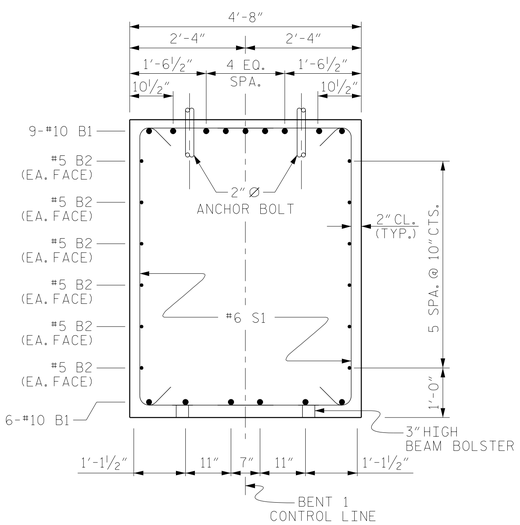


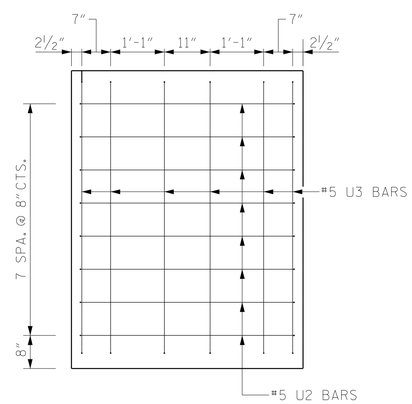
TYP. COLUMN REINFORCEMENT

TYP. DRILLED PIER REINFORCEMENT

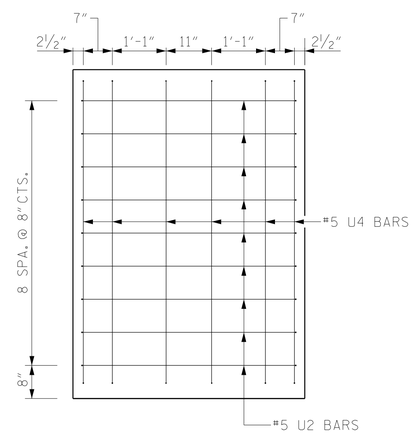
PLAN OF DRILLED PIERS & COLUMNS



SECTION A-A

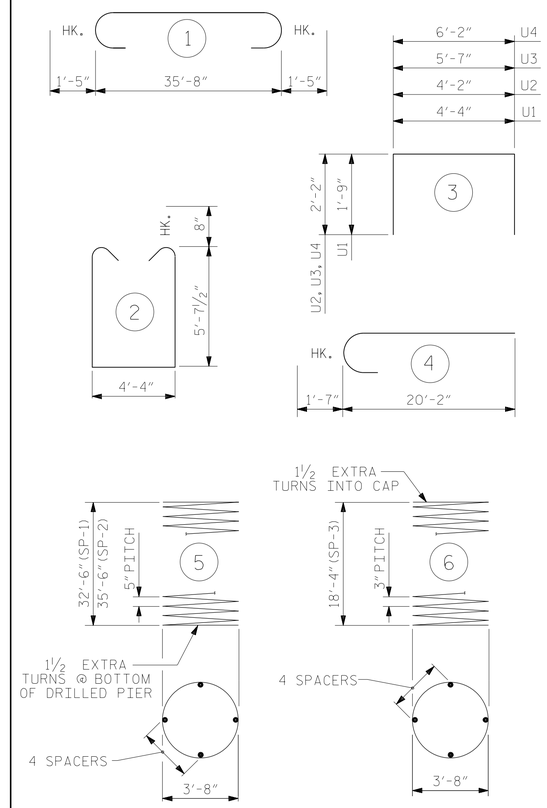


VIEW B-B



VIEW D-D

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	45'-3"	4808
M2	20	#11	STR	48'-3"	5127
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	21'-9"	4622
REINFORCING STEEL				LBS.	20698
SP-1	1	*	5	903'-4'	942
SP-2	1	*	5	985'-3"	1028
SP-3	2	**	6	852'-5"	1139
SPIRAL COLUMN REINFORCING STEEL				LBS.	3109

CLASS A CONCRETE BREAKDOWN

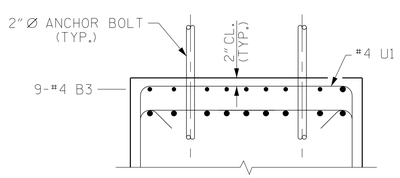
POUR #2 - COLUMNS	C.Y.	16.8
POUR #3 - CAP	C.Y.	39.0
TOTAL CLASS A CONCRETE	C.Y.	55.8

DRILLED PIERS

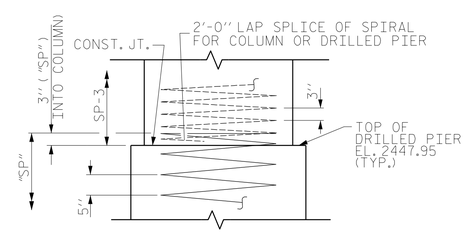
DRILLED PIER CONCRETE POUR #1 (DRILLED PIERS)	C.Y.	40.6
4'-6" DIA. DRILLED PIER NOT IN SOIL	LIN.FT.	38.0
4'-6" DIA. DRILLED PIER IN SOIL	LIN.FT.	31.0
CSL TUBES	LIN.FT.	360.0
PERM. STEEL CASING FOR 4'-6" DIA. DRILLED PIER	LIN.FT.	23.9

* 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.



SECTION C-C



CONSTRUCTION JOINT DETAIL

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

LEFT LANE

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

Digitally signed by Richard L Bollinger
Date: 2014.08.26 15:44:24 -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-84

TOTAL SHEETS 194

DWG. No. 030

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