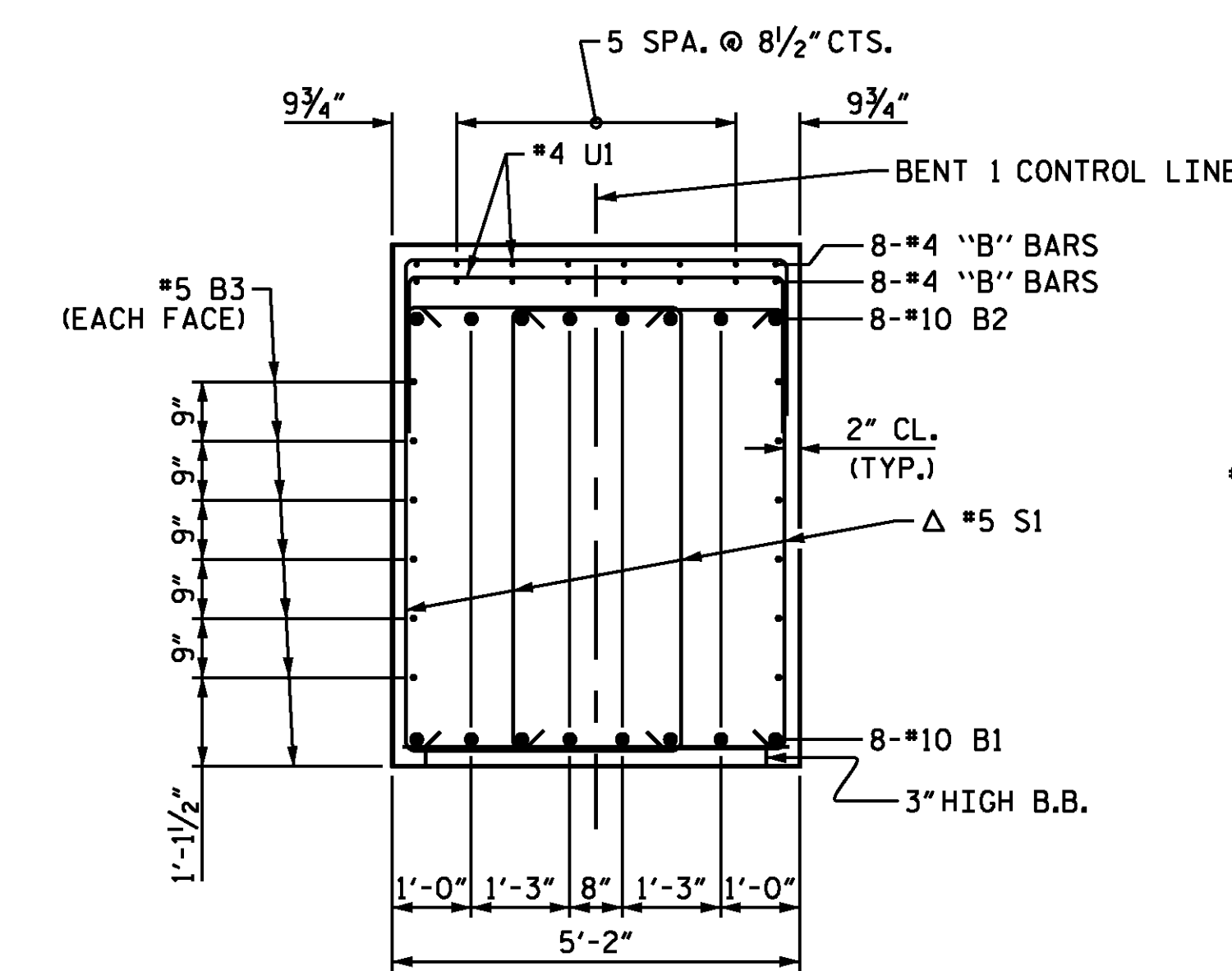
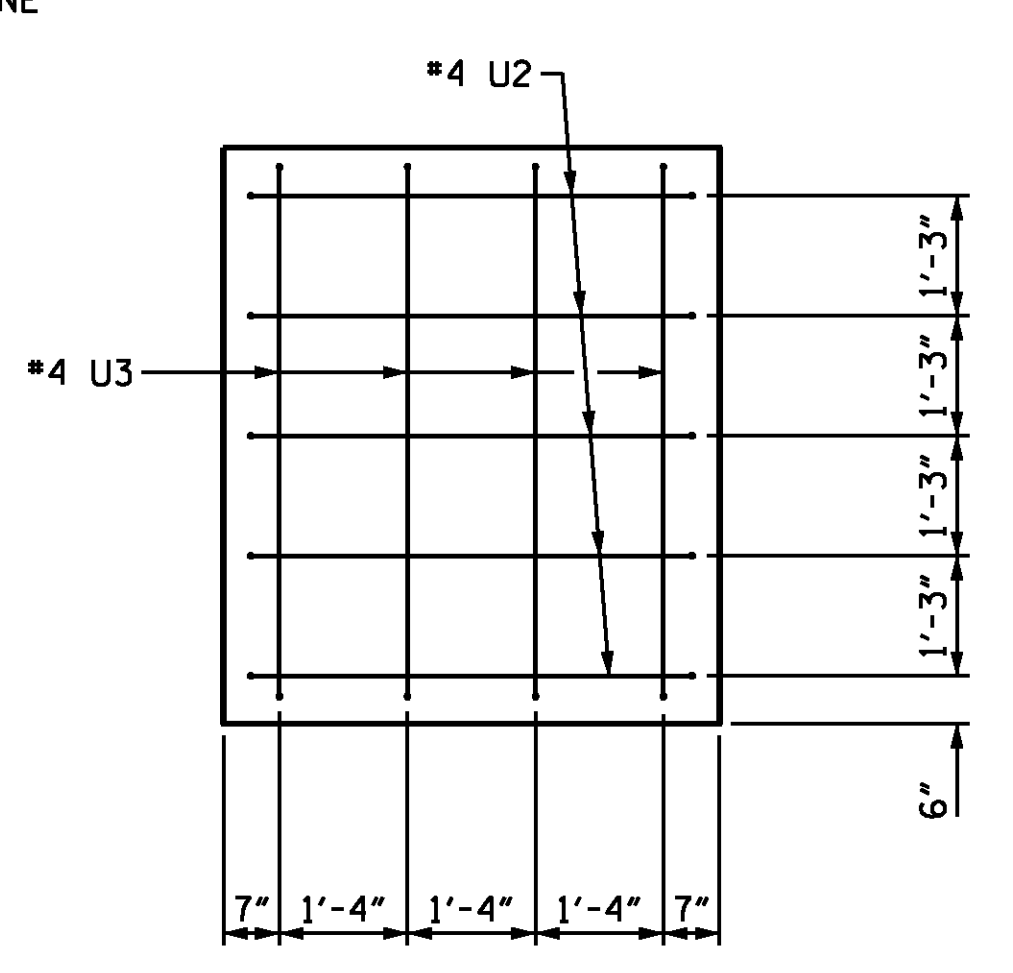


**PLAN OF DRILLED PIERS AND COLUMNS**

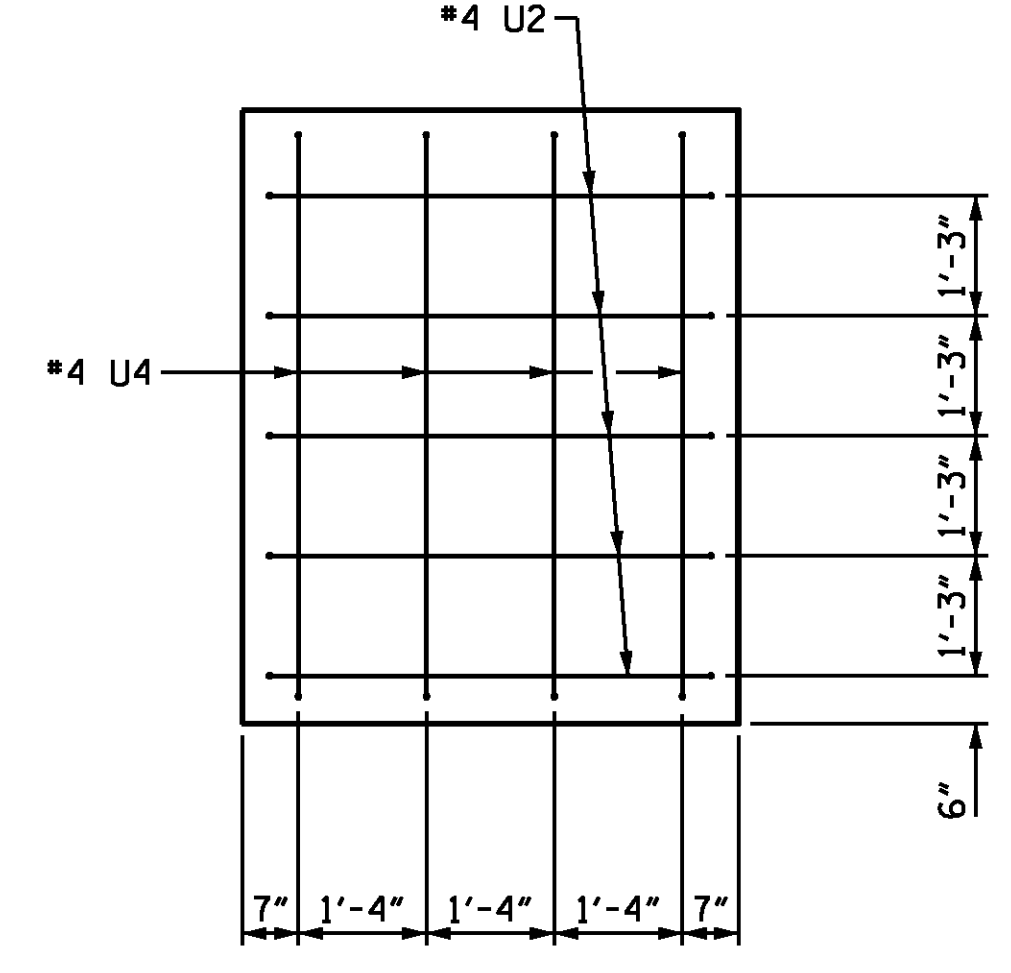
REINFORCING STEEL, AND DIMENSIONS ARE TYPICAL FOR EACH COLUMN OR DRILLED PIER UNLESS OTHERWISE NOTED.



**SECTION A-A**

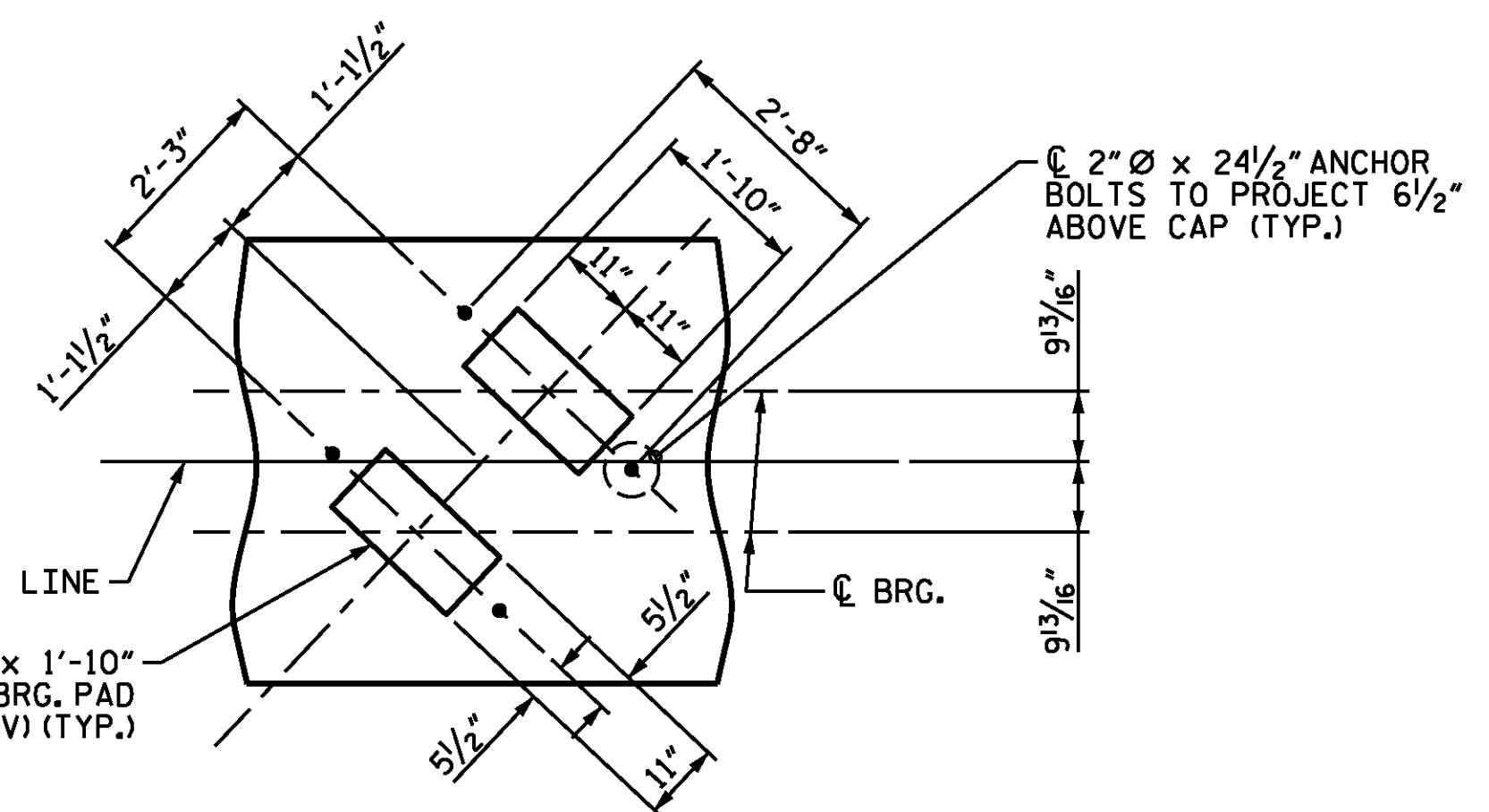


**SECTION B-B**



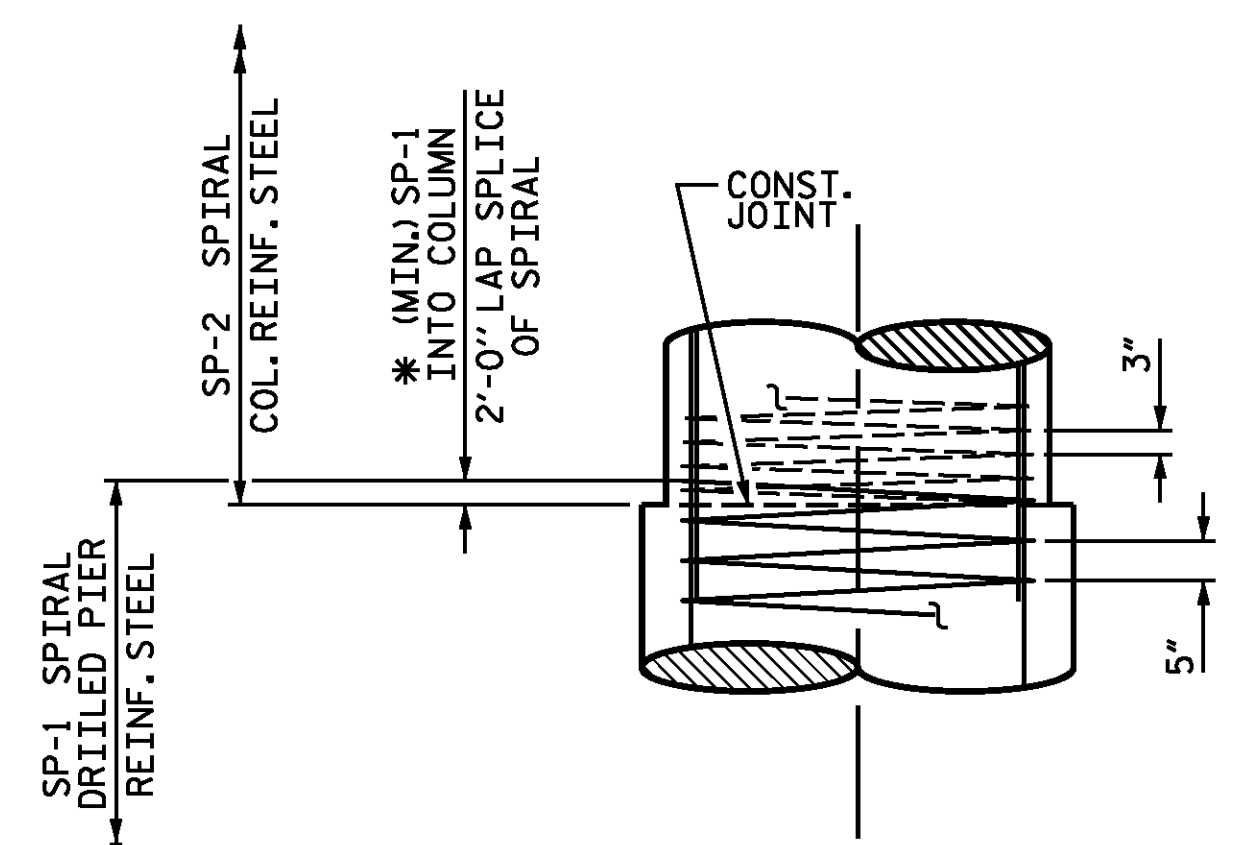
**SECTION C-C**

Δ INVERT ALTERNATE STIRRUPS AS SHOWN



**DETAIL "A"**

(TYP. EACH GIRDER)



**CONSTRUCTION JOINT DETAIL**

**BAR TYPES**

**BILL OF MATERIAL BENT 1**

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	16	#10	STR	37'-6"	2,582
B2	16	#10	1	38'-9"	2,668
B3	24	#4	STR	33'-6"	537
B4	8	#4	STR	14'-1"	75
B5	16	#4	STR	21'-5"	229
B6	8	#4	STR	8'-5"	45
MI	68	#11	STR	31'-0"	11,200
S1	160	#5	2	15'-8"	2,614
U1	63	#4	3	8'-10"	372
U2	10	#4	3	8'-8"	58
U3	4	#4	3	9'-7"	26
U4	4	#4	3	9'-11"	26
V1	68	#10	1	19'-9"	5,779
REINFORCING STEEL					LBS. 26,211
SP-1	4	*	4	608'-0"	2,537
SP-2	4	**	5	780'-4"	2,085
SPIRAL COLUMN REINFORCING STEEL					LBS. 4,622

\* 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**

POUR #	ITEM	CU. YDS.	WEIGHT
POUR #2	COLUMNS	30.6	
POUR #3	CAP	78.0	
TOTAL		108.6	

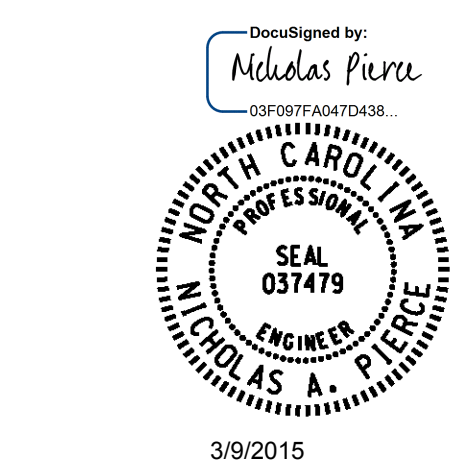
**4'-6" Ø DRILLED PIERS**

ITEM	CU. YDS.	WEIGHT
DRILLED PIER CONCRETE POUR #1	50.7	
4'-6" Ø DRILLED PIERS NOT IN SOIL	40.0	LIN. FT.
4'-6" Ø DRILLED PIERS IN SOIL	46.0	LIN. FT.
CSL TUBES	368.00	LIN. FT.

ALL BAR DIMENSIONS ARE OUT TO OUT.

DESIGN ENGINEER OF RECORD N.A. PIERCE	DATE 12/2015
DRAWN BY : M.J. OSTRISHKO	DATE : 12/2014
CHECKED BY : N.A. PIERCE	DATE : 12/2014

3/9/2015  
 RAB5114.Randolph County\Structures\Drafting\Substructure\401.030.B5114.SMU.B1.2.dgn  
 usmo04281



**WSP**  
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 www.wspgroup.com  
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PROJECT NO. B-5114  
 RANDOLPH COUNTY  
 STATION: 19+99.61 -L-

SHEET 2 OF 2  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUBSTRUCTURE  
 BENT 1

REVISIONS						SHEET NO.
NO.	BYs	DATEs	NO.	BYs	DATEs	TOTAL SHEETS
1			3			36
2			4			