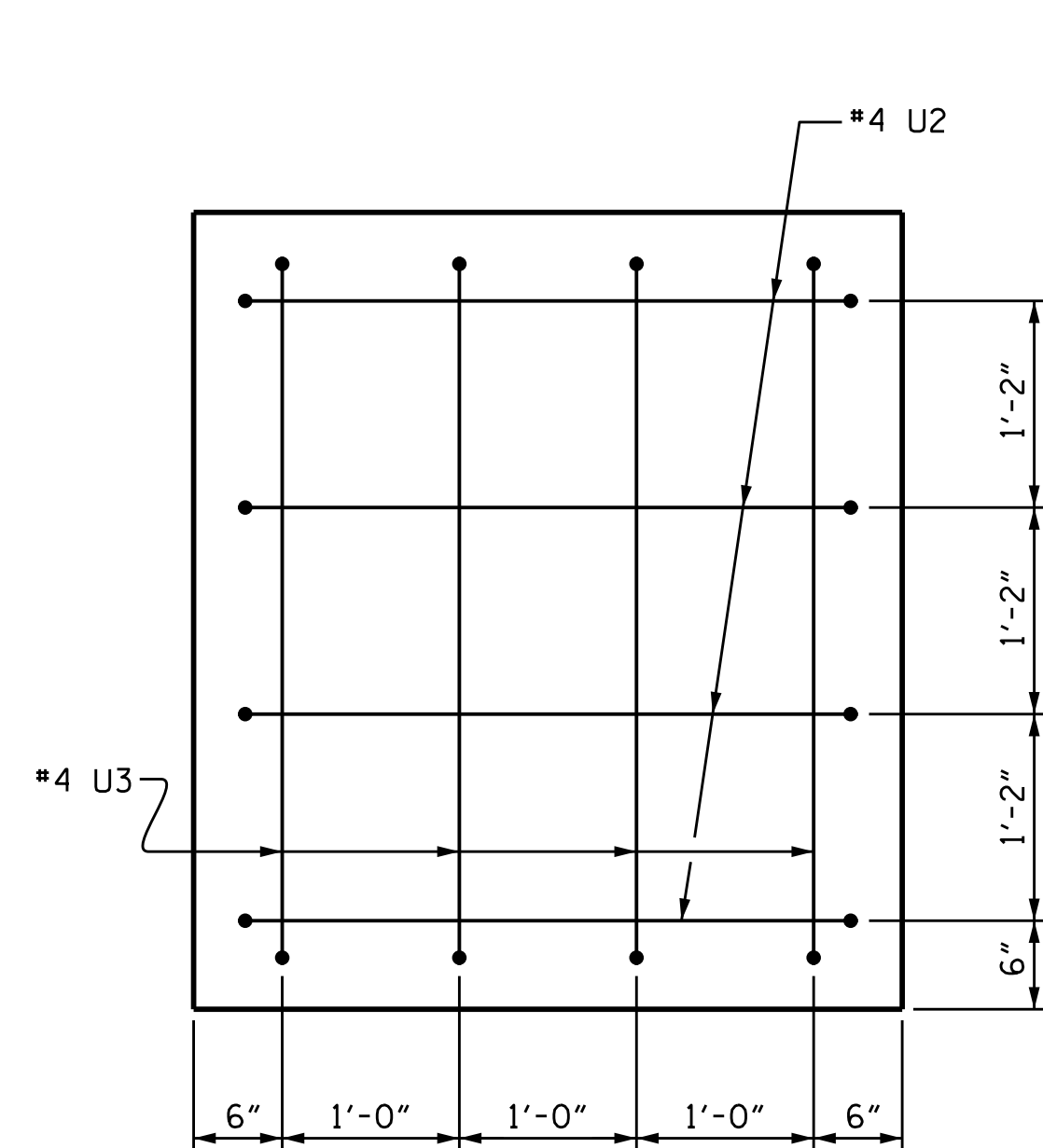


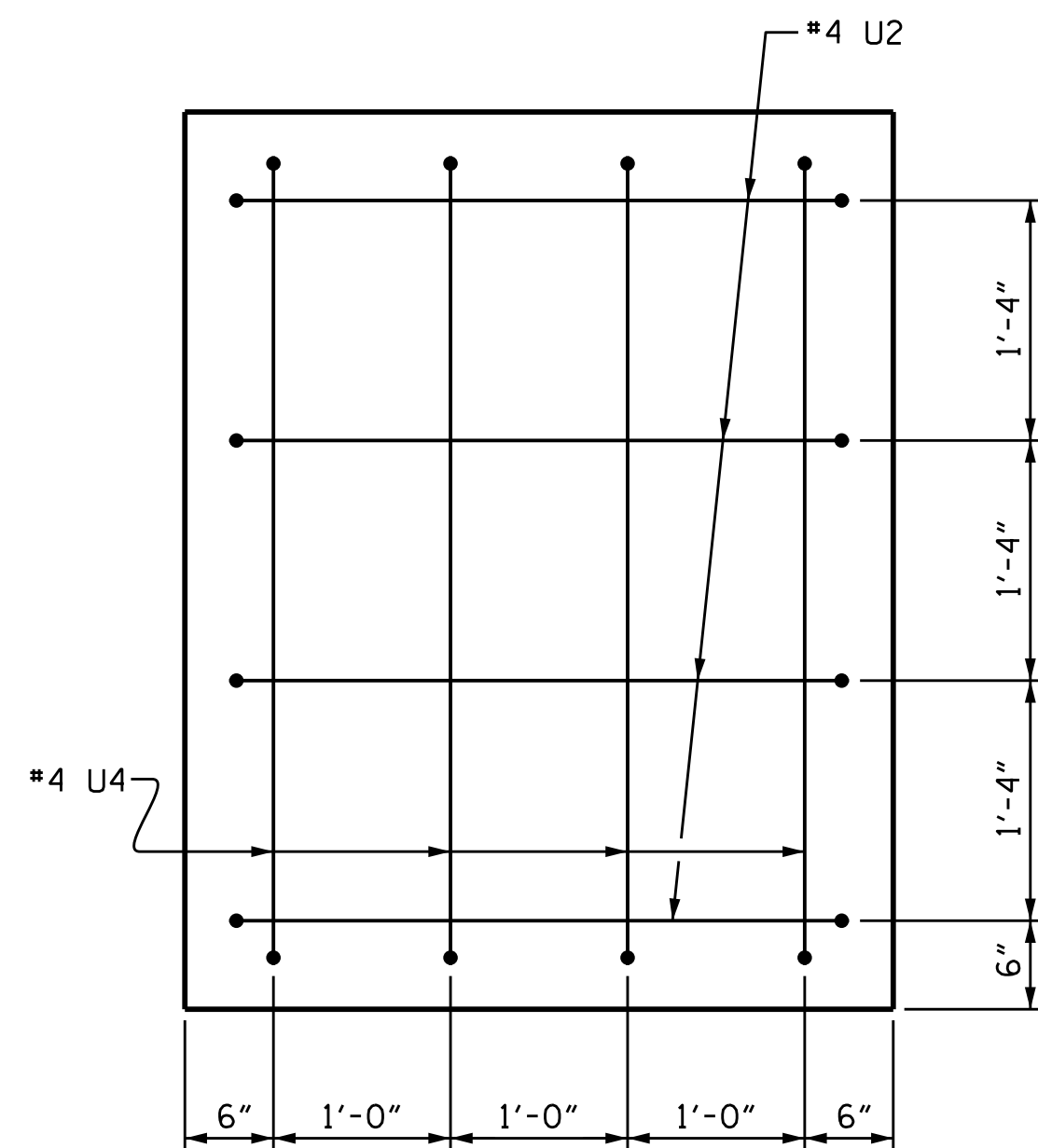
PLAN OF COLUMNS  
(TYP.)

PLAN OF DRILLED PIERS  
(TYP.)

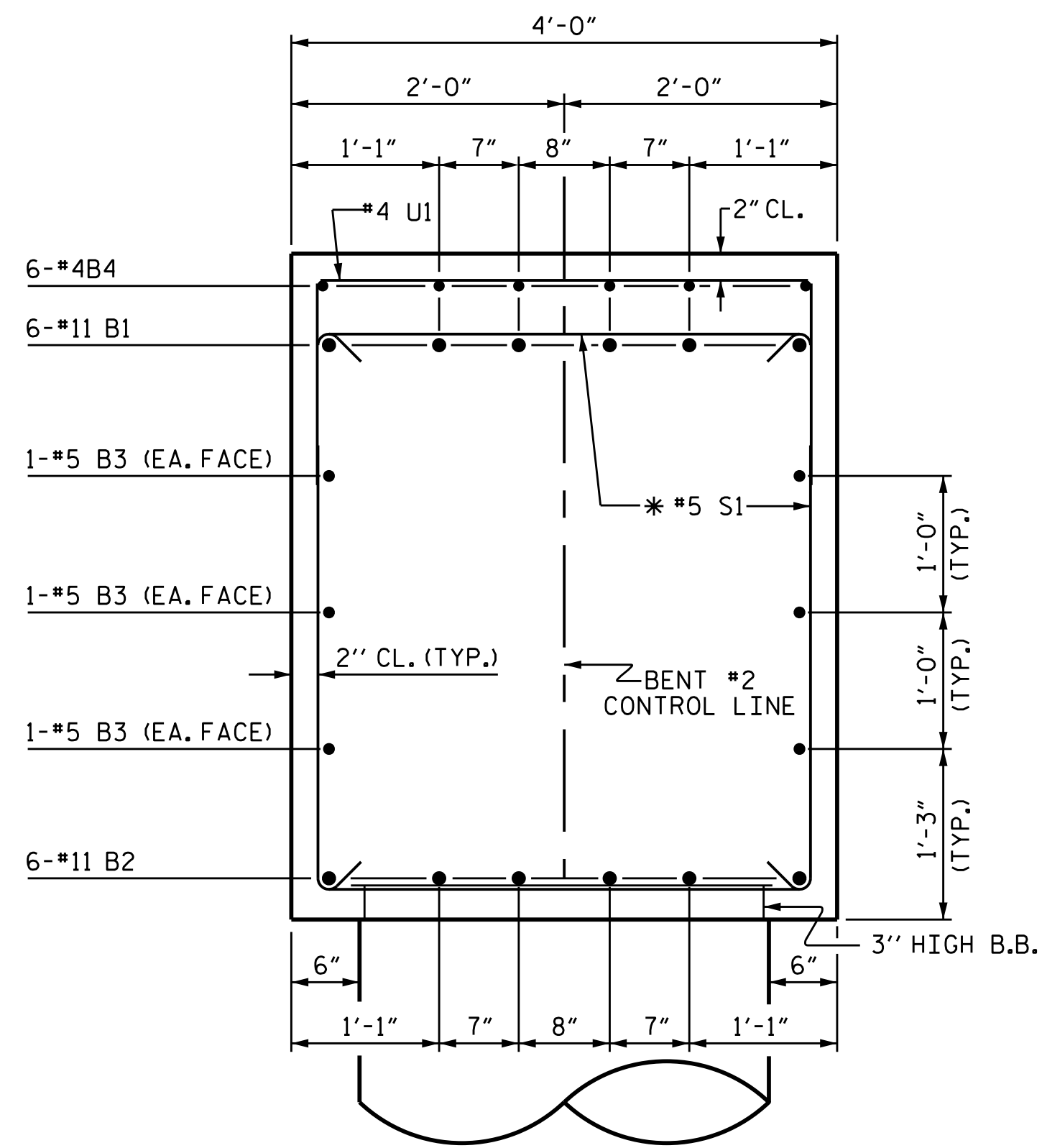
PLAN OF COLUMNS AND DRILLED PIERS



VIEW X-X



VIEW Y-Y



SECTION A-A

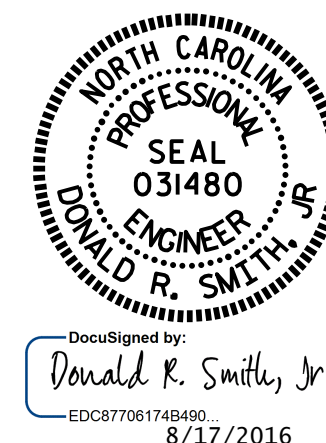
\* INVERT ALTERNATE STIRRUPS

BAR TYPES		BILL OF MATERIAL				
		<b>BENT #2</b>				
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
B1	6	#11		42'-5"	1352	
B2	6	#11	STR	39'-5"	1257	
B3	6	#5	STR	39'-5"	247	
B4	12	#4	STR	11'-8"	94	
B5	6	#4	STR	4'-1"	16	
M1	10	#11	STR	58'-1"	3086	
M2	10	#11	STR	46'-1"	2448	
S1	61	#5	3	12'-10"	816	
U1	45	#4	4	6'-8"	200	
U2	8	#4	4	6'-6"	35	
U3	4	#4	4	7'-0"	19	
U4	4	#4	4	7'-6"	20	
V1	20	#11	2	14'-5"	1532	
TOTAL REINFORCING STEEL LBS.					11,122	
SP-1	2	**	5	375'-5"	502	
SP-2	1	***	6	950'-0"	991	
SP-3	1	***	6	713'-6"	744	
SPIRAL COLUMN REINFORCING STEEL LBS.					2,237	
CLASS A CONCRETE BREAKDOWN						
POUR #2 (COLUMNS)					5.6 C.Y.	
POUR #3 (BENT CAP)					28.0 C.Y.	
TOTAL					33.6 C.Y.	
DRILLED PIER QUANTITIES						
DRILLED PIER CONCRETE						
POUR #1 (DRILLED PIERS)					29.9 C.Y.	
3'-6" DIA. DRILLED PIERS IN SOIL					58.0 LIN. FT.	
3'-6" DIA. DRILLED PIERS NOT IN SOIL					26.0 LIN. FT.	
PERMANENT STEEL CASING FOR 3'-6" DRILLED PIER					39.1 LIN. FT.	
SID INSPECTION					2 EA.	
SPT TESTING					4 EA.	
CSL TUBES					348.0 LIN. FT.	

\*\* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.  
 \*\*\* THE SP-2 AND SP-3 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.

PROJECT NO. U-3440  
CABARRUS COUNTY  
 STATION: 68+25.60 -L-

SHEET 2 OF 2  
 STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUBSTRUCTURE  
**BENT #2**  
 (LEFT LANE)



DRAWN BY : K. D. LAYNE DATE : 2/04/16  
 CHECKED BY : R. P. PATEL DATE : 2/09/16  
 DESIGN ENGINEER OF RECORD : T. R. PETERSON DATE : 6/20/16

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-31
1			3			TOTAL SHEETS
2			4			37