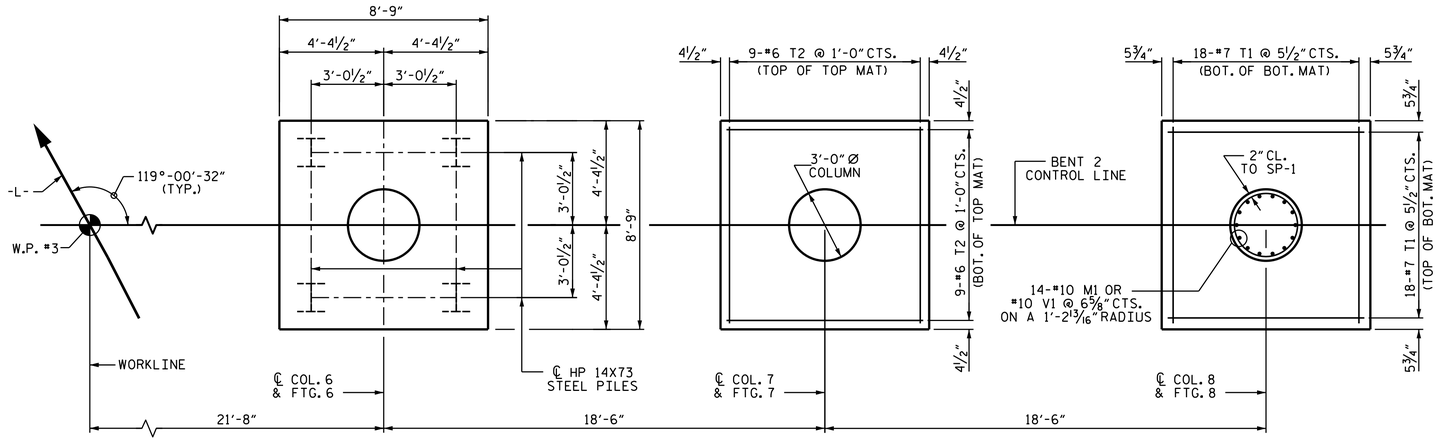
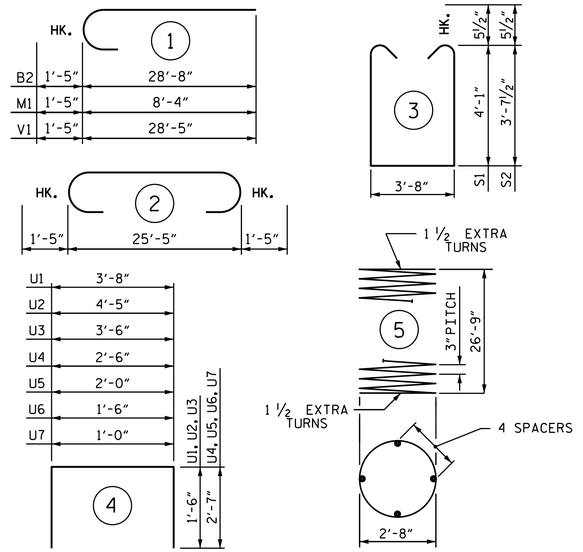


PLAN OF FOOTINGS & COLUMNS

PILES, REINFORCING STEEL, DIMENSIONS AND DETAILS ARE TYPICAL FOR EACH COLUMN AND FOOTING UNLESS OTHERWISE NOTED

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

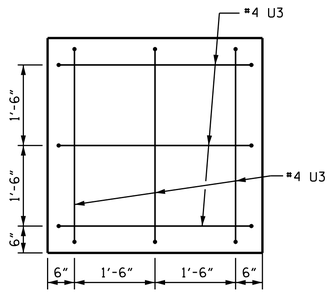
BILL OF MATERIAL

BENT 2-STAGE I

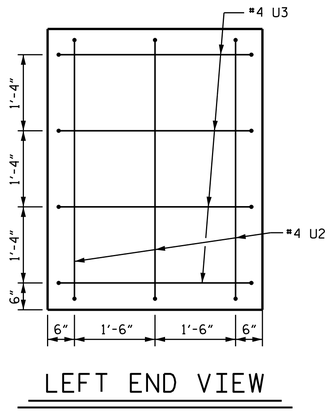
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#10	STR	47'-10"	1,647
B2	8	#10	1	30'-1"	1,036
B3	8	#10	2	28'-3"	972
B4	12	#4	STR	25'-2"	202
B5	2	#4	STR	21'-8"	29
B6	16	#4	STR	10'-10"	116
B7	8	#4	STR	3'-11"	21
B8	5	#4	STR	3'-5"	11
B9	5	#4	STR	3'-0"	10
M1	42	#10	1	9'-10"	1,777
S1	25	#5	3	12'-9"	332
S2	25	#5	3	11'-10"	309
T1	108	#7	STR	8'-3"	1,821
T2	54	#6	STR	8'-3"	669
U1	53	#4	4	6'-8"	236
U2	3	#4	4	7'-5"	15
U3	10	#4	4	6'-6"	43
U4	5	#4	4	7'-8"	26
U5	5	#4	4	7'-2"	24
U6	5	#4	4	6'-8"	22
U7	5	#4	4	6'-2"	21
V1	42	#10	1	29'-10"	5,392
REINFORCING STEEL				LBS.	14,731
SP-1	3	**	5	907'-7"	1,819
SPIRAL COLUMN REINFORCING STEEL				LBS.	1,819

CLASS A CONCRETE BREAKDOWN:		
POUR #1 (FOOTINGS)	C.Y.	29.8
POUR #2 (COLUMNS)	C.Y.	20.8
POUR #3 (CAP)	C.Y.	31.5
POUR #4 (STEPS)	C.Y.	1.7
TOTAL CLASS A CONCRETE	C.Y.	83.8
HP 14X73 STEEL PILES No. 12	LIN. FT.	600
FOUNDATION EXCAVATION	LUMP SUM	

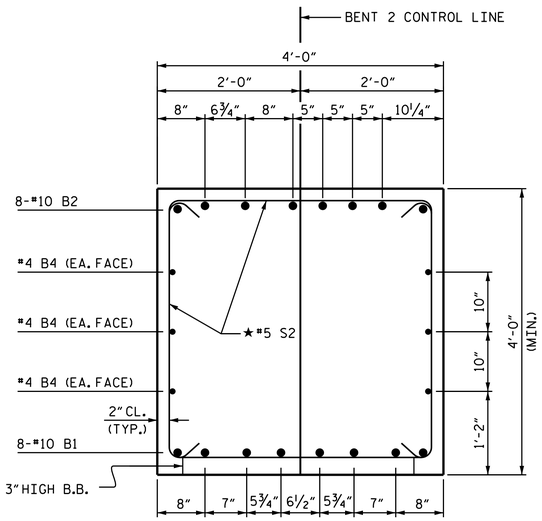
** THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W-20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.



RIGHT END VIEW

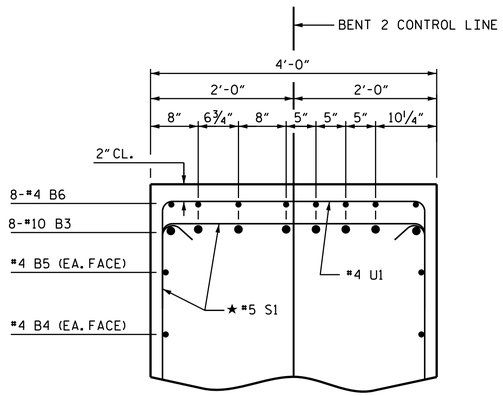


LEFT END VIEW



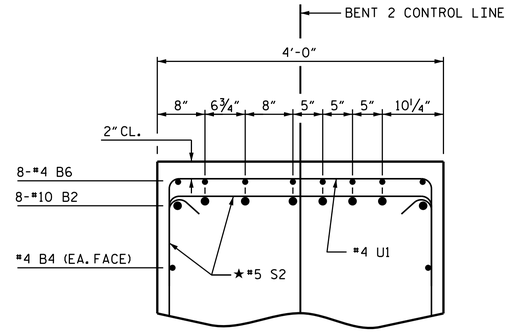
SECTION A-A

★INVERT ALTERNATE STIRRUPS



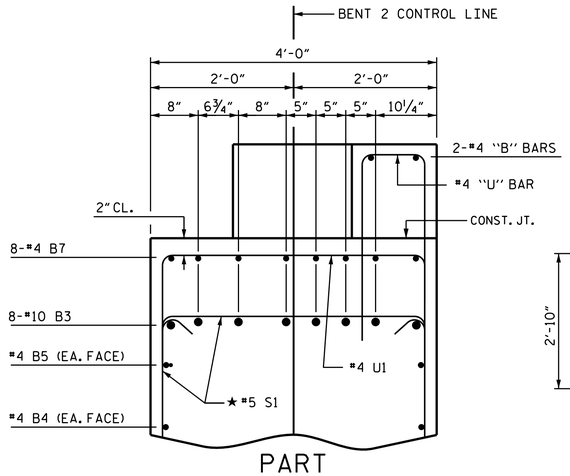
PART SECTION C-C

★INVERT ALTERNATE STIRRUPS



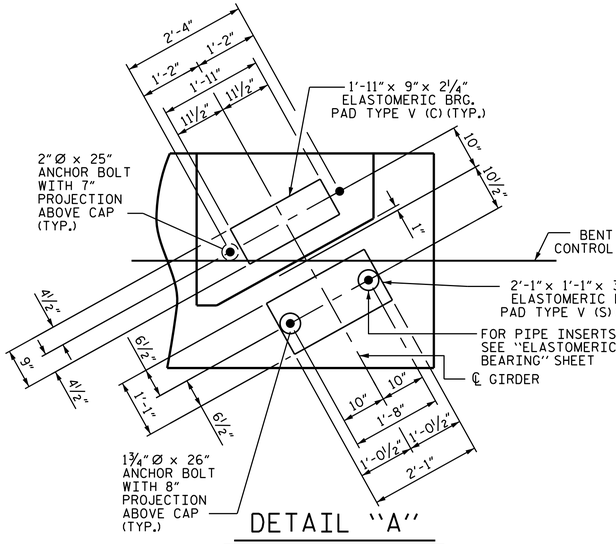
PART SECTION B-B

★INVERT ALTERNATE STIRRUPS



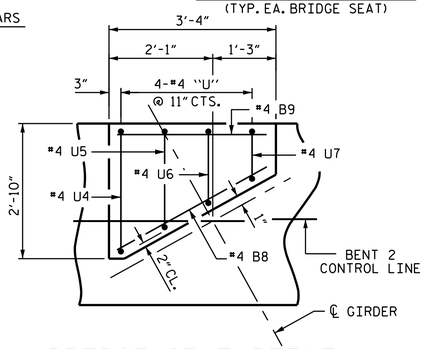
PART SECTION D-D

★INVERT ALTERNATE STIRRUPS



DETAIL "A"

(TYP. EA. BRIDGE SEAT)



BRIDGE SEAT DETAIL

(TYP. EA. CONC. GDR. BRIDGE SEAT)

NORTH CAROLINA PROFESSIONAL SEAL 23371 ENGINEER VIPUL A. PATEL

DocuSigned by: vipul a patel 1C157DE15D4F4A1... 2/19/2015

PROJECT NO. B-5136

CABARRUS COUNTY

STATION: 21+74.92 -L-

SHEET 2 OF 6

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

BENT 2

STAGE I

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-63
1			3			TOTAL SHEETS
2			4			75

DRAWN BY : T. H. CARROLL DATE : 10/27/14
CHECKED BY : V. A. PATEL DATE : 11/4/14
DESIGN ENGINEER OF RECORD: H.A. LOCKLEAR DATE : 11/4/14

18-FEB-2015 14:04
R:\Structures\Plans\B5136_SD_B2_01.dgn
thcarroll