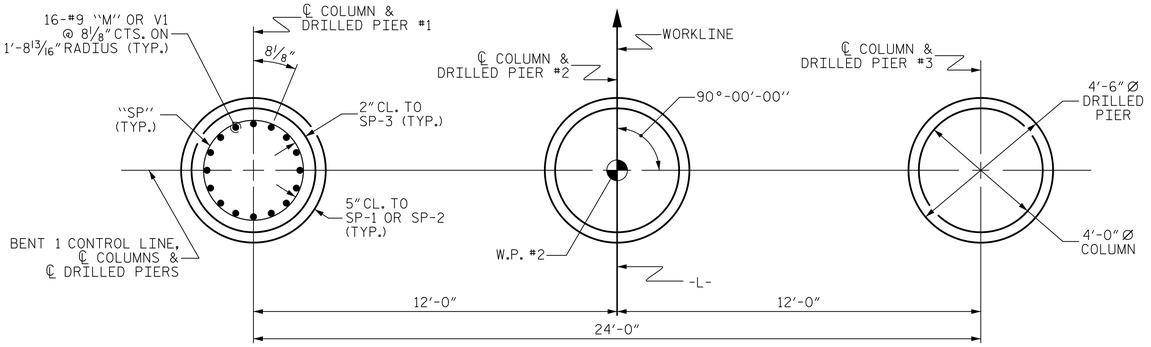
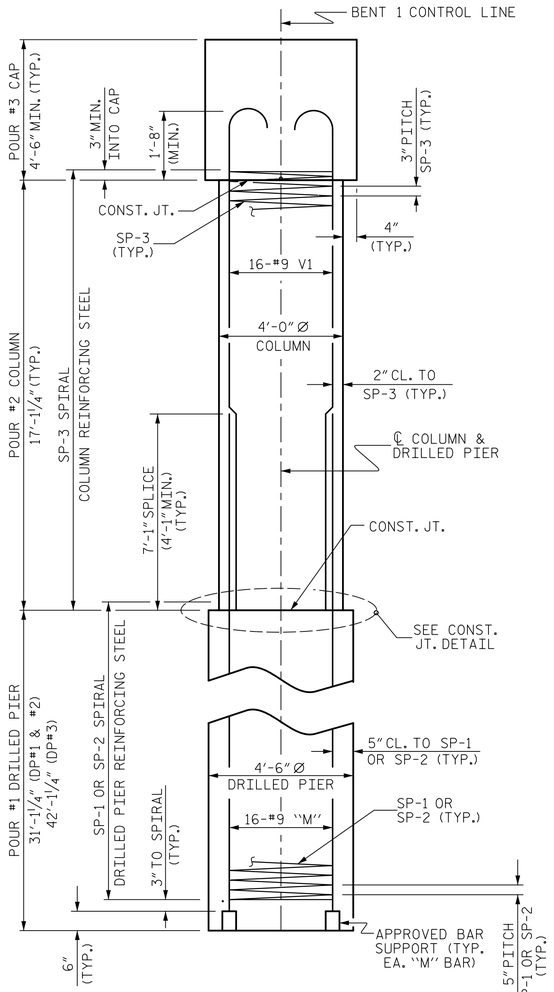
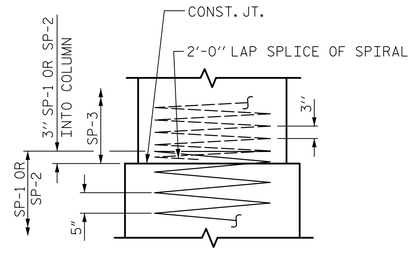


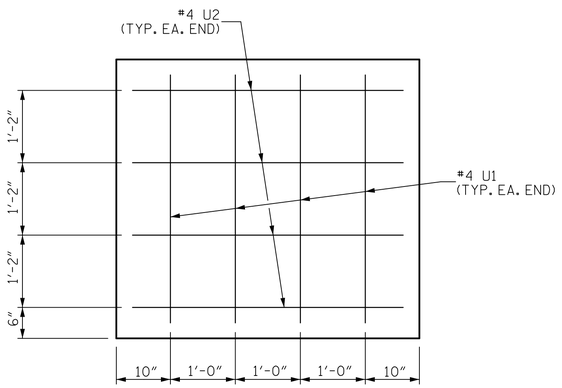
PLAN OF DRILLED PIERS & COLUMNS



END ELEVATION

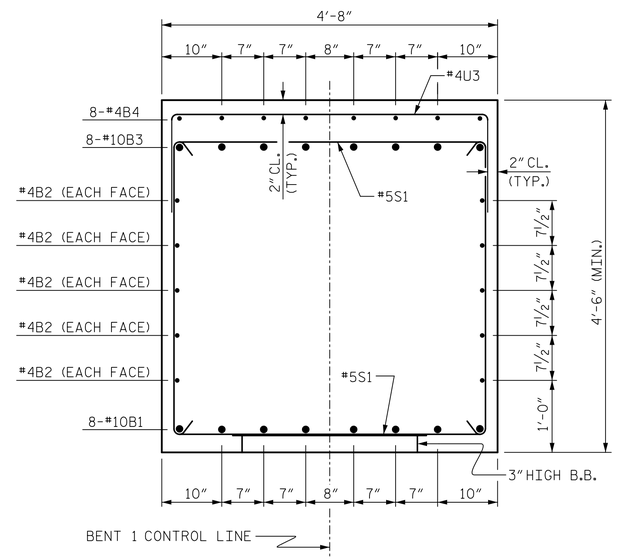


CONSTRUCTION JOINT DETAIL



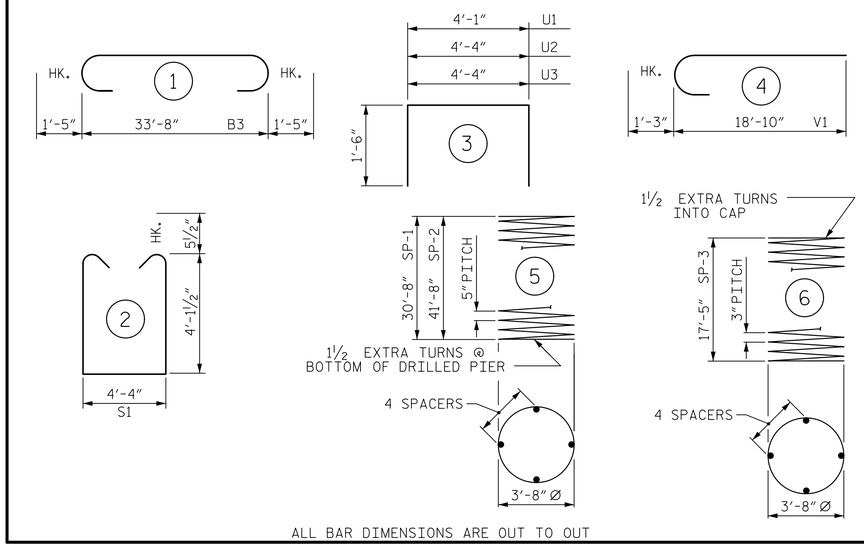
SECTION X-X

(TYPICAL EACH END)



SECTION A-A

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

BENT NO. 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#10	STR	33'-8"	1159
B2	10	#4	STR	33'-8"	225
B3	8	#10	1	36'-6"	1256
B4	8	#4	STR	3'-4"	18
M1	16	#9	STR	38'-0"	2067
M2	32	#9	STR	49'-1"	5340
S1	60	#5	2	13'-6"	845
U1	8	#4	3	7'-1"	38
U2	8	#4	3	7'-4"	39
U3	35	#4	3	7'-4"	171
V1	48	#9	4	20'-1"	3278
REINFORCING STEEL					14,436 LBS.

SP-1	1	✳	5	860'-6"	898
SP-2	2	✳	5	1156'-9"	2413
SP-3	3	✳✳	6	814'-6"	1632
SPIRAL COLUMN REINFORCING STEEL					4,943 LBS.

✳ 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

CLASS A CONCRETE BREAKDOWN	
POUR #2 (COLUMNS)	23.9 C.Y.
POUR #3 (CAP)	27.2 C.Y.
TOTAL CLASS A CONCRETE	51.1 C.Y.

DRILLED PIERS:

DRILLED PIER CONCRETE POUR #1 (DRILLED PIERS)	67.9 C.Y.
4'-6" Ø DRILLED PIER NOT IN SOIL	55.00 LIN. FT.
4'-6" Ø DRILLED PIER IN SOIL	60.30 LIN. FT.
CSL TUBES	479.2 LIN. FT.

PROJECT NO. B-4407

ANSON/STANLY COUNTY

STATION: 32+31.61 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE
BENT NO. 1

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042890 PATRICK R. GALLAGHER

Electronically signed by Patrick R. Gallagher
DocuSigned by: 5B6CCF4715E4457...

3/18/2021

Vaughn & Melton
Consulting Engineers
Asheville, North Carolina
828-253-2796

Boone, NC 828-355-9933
Tri-Cities, TN 423-467-8401
Knoxville, TN 865-546-5800
Spartanburg, SC 864-574-4775
Charleston, SC 843-974-5650
Middlesboro, KY 606-248-6600
Raleigh, NC 919-977-9455
Charlotte, NC 704-357-0488
Atlanta, GA 770-627-3590

Copyright © 2006 Vaughn & Melton, Inc. All Rights Reserved

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DWN. BY: WDC DATE: 10/2020
CHKD. BY: PRG DATE: 10/2020
DES. EGR. OF RECORD: PRG DATE: 10/2020

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-36
1			3			TOTAL SHEETS
2			4			45

w:\cru\chr
DGN: V:\NCST\transportation\03730-09_B4407\Structure\Final Plans\401_07I_B-4407_SMU_BT12_S36.dgn
TIME: 05:39 PM on Friday, January 05, 2020