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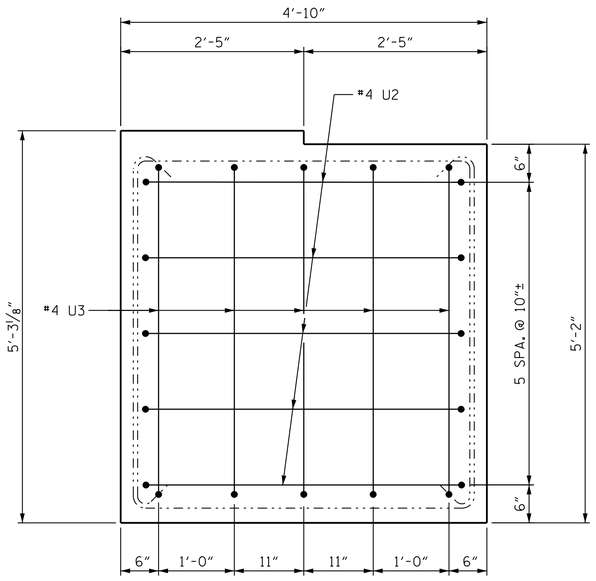
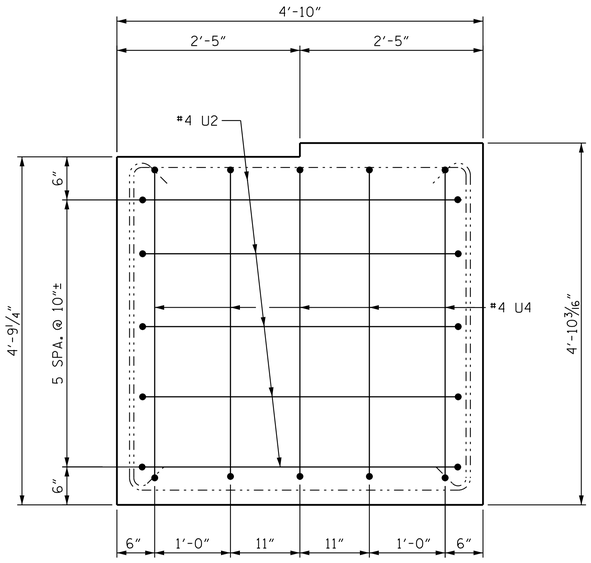
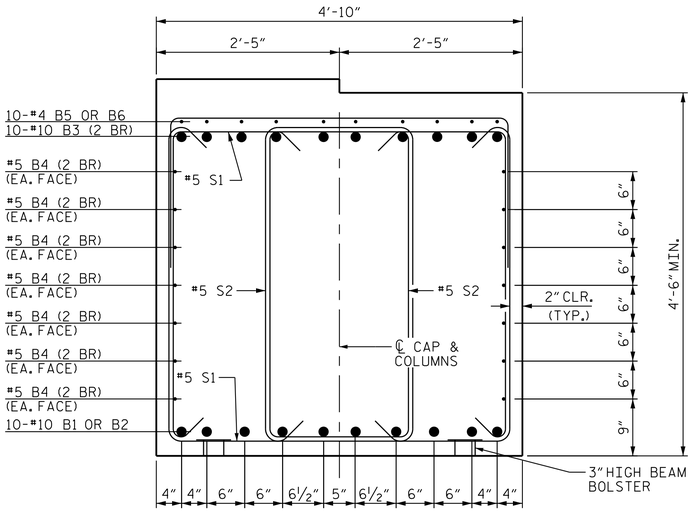


VIEW A-A

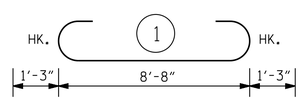


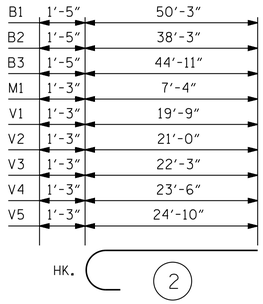
VIEW B-B

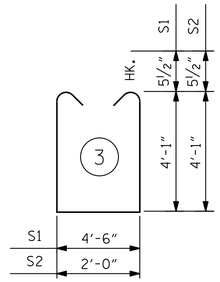


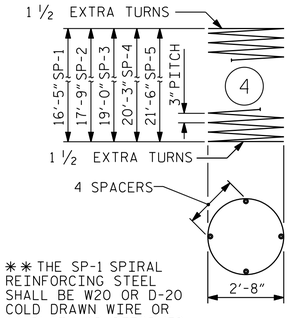
SECTION C-C

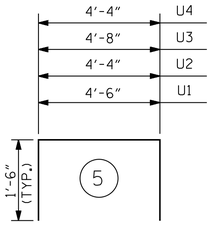
BAR TYPES











** THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.

ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

BENT 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	10	#10	2	51'-8"	2,223
B2	10	#10	2	39'-8"	1,707
B3	20	#10	2	46'-4"	3,987
B4	28	#5	STR	43'-5"	1,268
B5	80	#4	STR	9'-6"	508
B6	10	#4	STR	5'-7"	37
M1	80	#9	2	8'-7"	2,335
S1	114	#5	3	13'-7"	1,615
S2	114	#5	3	11'-1"	1,318
T1	180	#6	STR	8'-8"	2,343
T2	180	#9	1	11'-2"	6,834
U1	115	#4	5	7'-6"	576
U2	10	#4	5	7'-4"	49
U3	5	#4	5	7'-8"	26
U4	5	#4	5	7'-4"	24
V1	16	#9	2	21'-0"	1,142
V2	16	#9	2	22'-3"	1,210
V3	16	#9	2	23'-6"	1,278
V4	16	#9	2	24'-9"	1,346
V5	16	#9	2	26'-1"	1,419

REINFORCING STEEL				LBS.	31,245
SP-1	1	**	4	568'-2"	380
SP-2	1	**	4	609'-4"	407
SP-3	1	**	4	650'-6"	435
SP-4	1	**	4	691'-8"	462
SP-5	1	**	4	732'-11"	490
SPIRAL COLUMN REINFORCING STEEL				LBS.	2,174
CLASS A CONCRETE BREAKDOWN					
POUR #1 FOOTINGS				C. Y.	67.5
POUR #2 COLUMNS				C. Y.	24.5
POUR #3 CAP				C. Y.	73.7
TOTAL CLASS A CONC.				C. Y.	165.7

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PROJECT NO. R-2707D

CLEVELAND COUNTY

STATION: 36+78.38 -RAMP A-

SHEET 4 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

BENT 1 DETAILS

Stantec
Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

DRAWN BY : J. B. GEILE DATE : 12/20/23
CHECKED BY : M. B . ISENHOUR DATE : 01/23/23
DESIGN ENGINEER OF RECORD: V. E. FRAGA DATE : 05/09/23

NORTH CAROLINA PROFESSIONAL SEAL 47083 ENGINEER VICTOR E. FRAGA
DocuSigned by: Victor E. Fraga
5/10/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. S4-35
TOTAL SHEETS 43

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