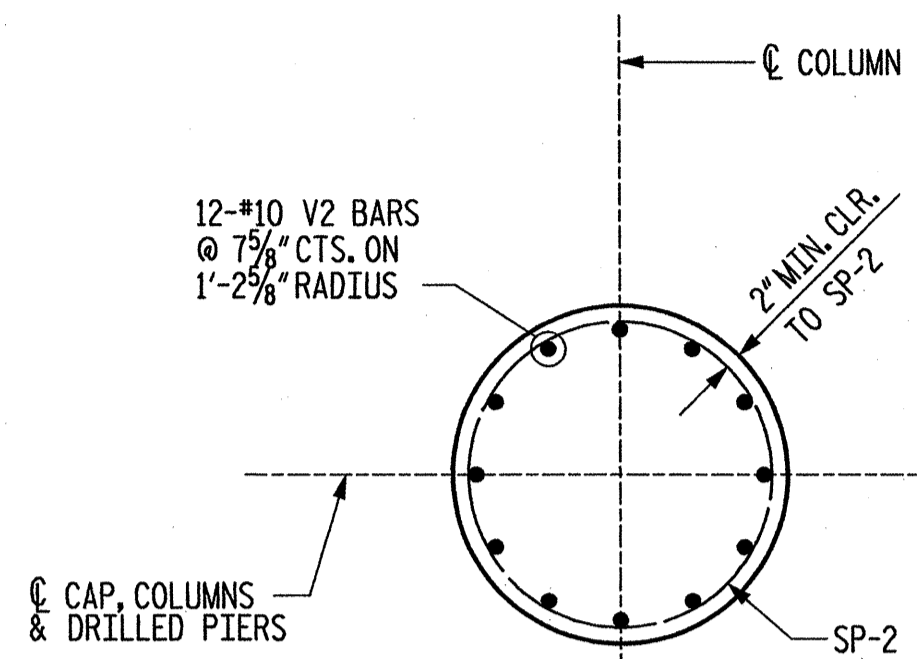
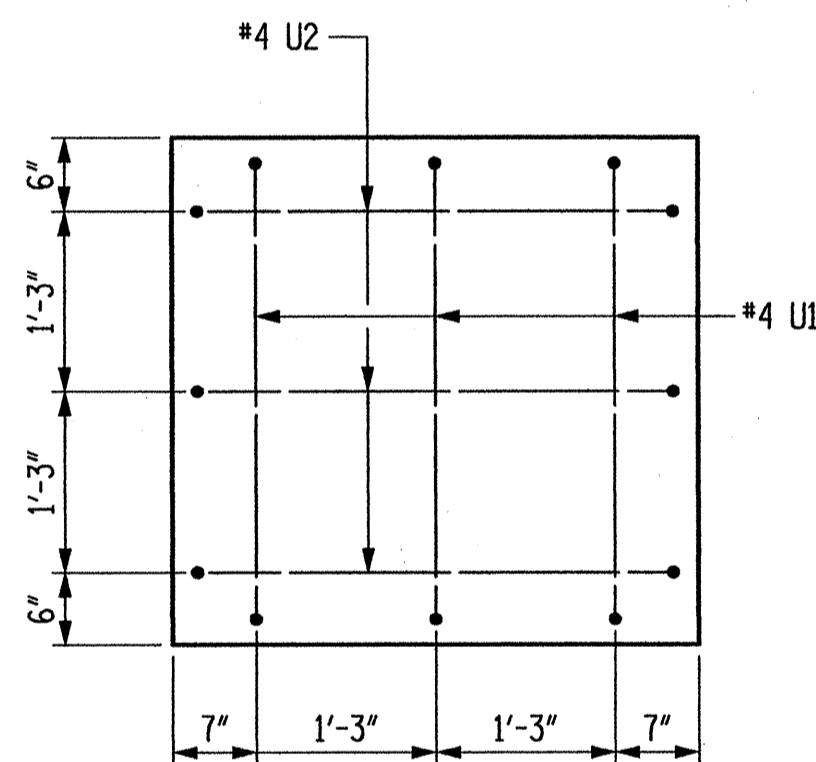


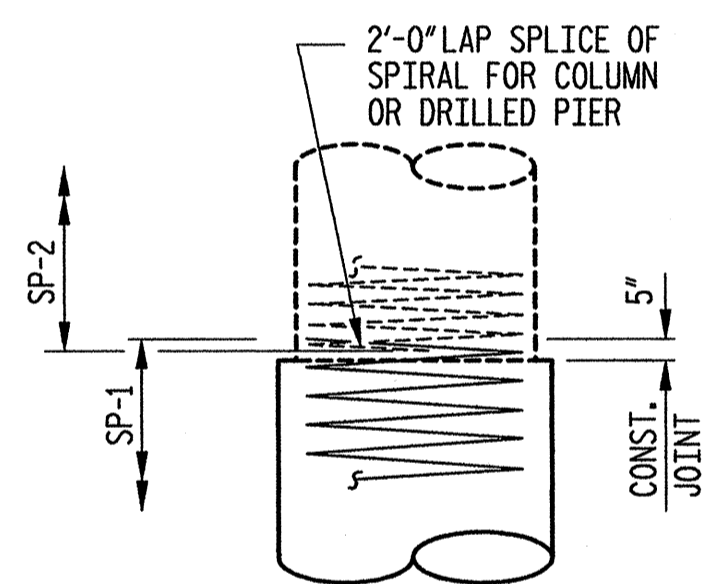
SECTION A-A



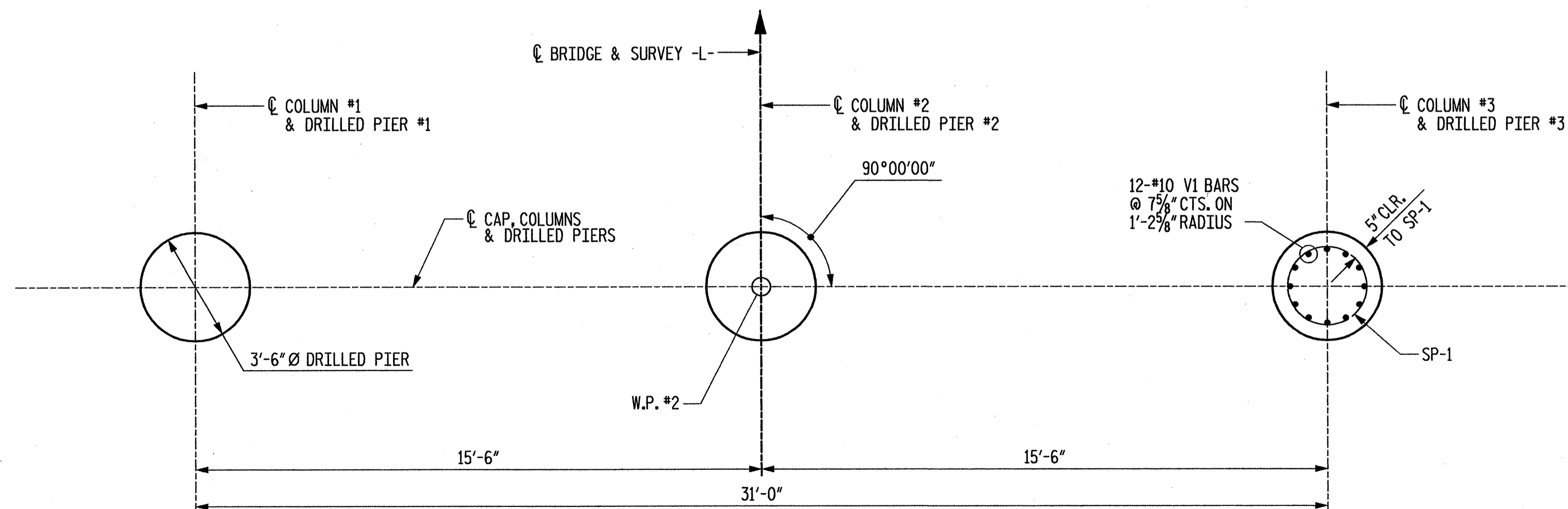
TYPICAL COLUMN SECTION



CAP END VIEW



CONSTRUCTION JOINT DETAIL

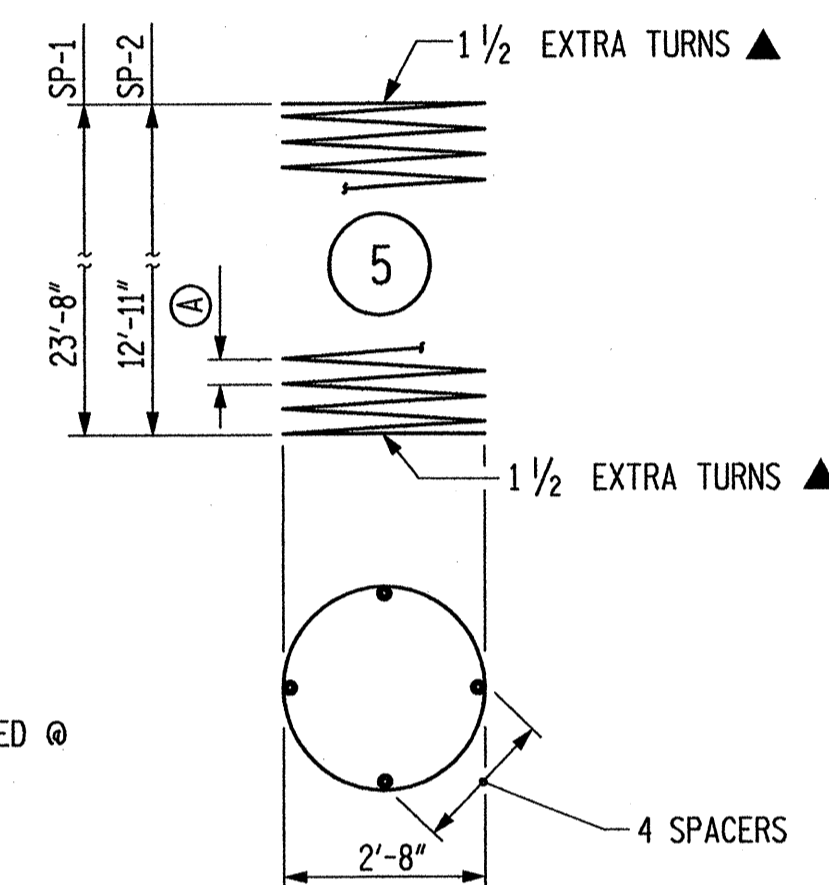
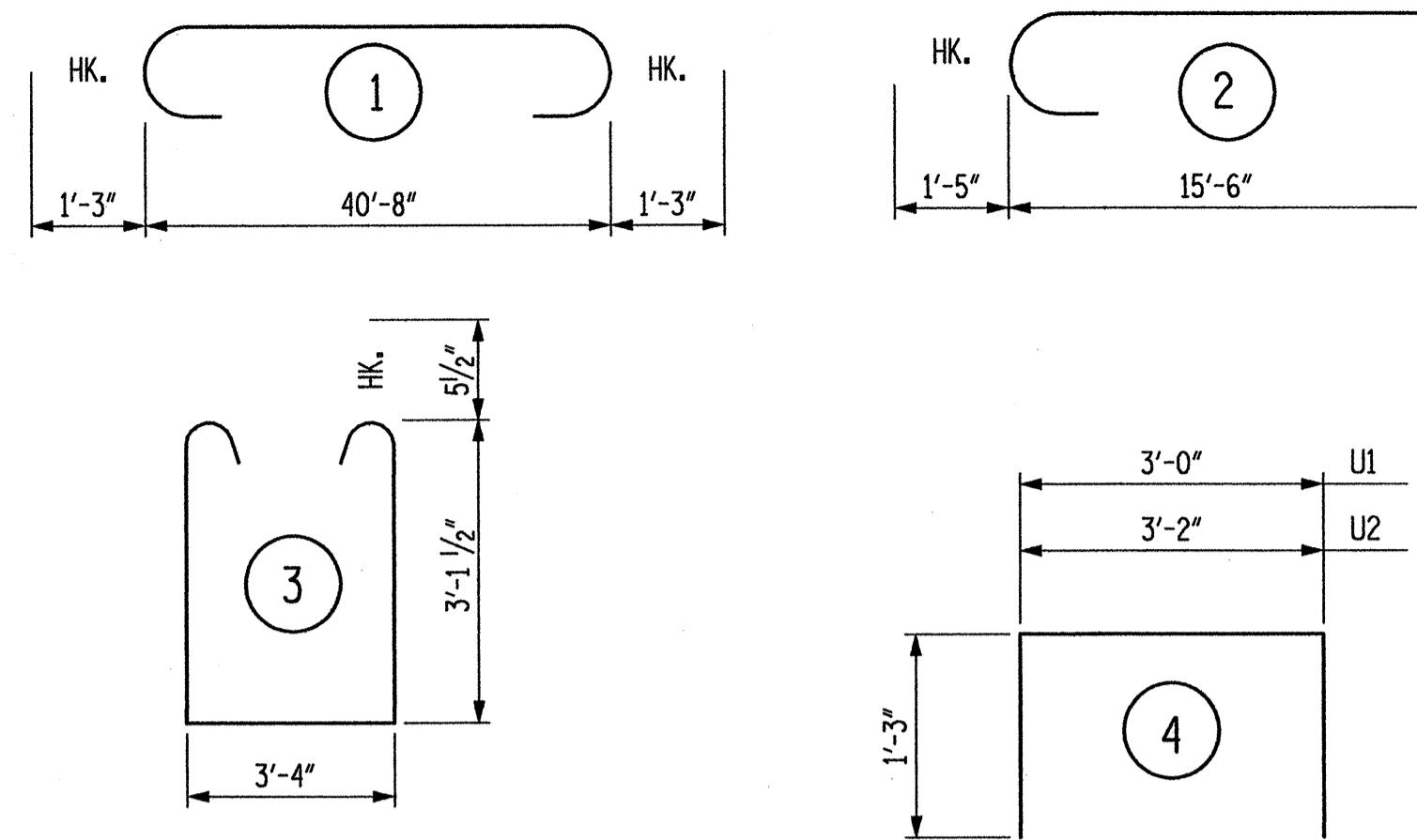


PLAN OF DRILLED PIERS

ALL DIMENSIONS AND DETAILS SHOWN FOR DRILLED PIERS ARE TYPICAL FOR EACH DRILLED PIER.

BAR TYPES

ALL BAR DIMENSIONS ARE OUT TO OUT.



Ⓐ 3" PITCH (SP-2)
5" PITCH (SP-1)

▲ EXTRA TURNS NOT REQUIRED @
CONST. JOINT LAP SPLICE

BILL OF MATERIAL

BENT #1

BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	5	9	STR	40'-8"	691
B2	5	9	1	43'-2"	734
B3	4	6	STR	40'-8"	244
D1	52	6	STR	1'-6"	117
S1	36	5	3	10'-6"	394
U1	6	4	4	5'-6"	22
U2	6	4	4	5'-8"	23
V1	36	10	STR	32'-10"	5,086
V2	36	10	2	16'-11"	2,621

REINFORCING STEEL TOTAL 9,932 LB

SPIRAL COLUMN REINFORCING STEEL

BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
SP-1	3	***	5	481'-5"	1,506
SP-2	3	***	5	438'-8"	879

SPIRAL COLUMN REINF. STEEL TOTAL 2,385 LB

POUR #1 DRILLED PIER	25.7	CY
POUR #2 COLUMN	10.2	CY
POUR #3 CAP	19.5	CY
TOTAL CY	55.4	

3'-6" Ø DRILLED PIER IN SOIL 49.8 LF

3'-6" Ø DRILLED PIER NOT IN SOIL 22.2 LF

3'-6" Ø PERMANENT STEEL CASING 39.0 LF

*** NOTE: THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.

*** NOTE: THE SP-2 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.

PROJECT NO. 36971
COUNTY: UNION
STATION: 17+51.30
REPLACES BRIDGE NO. 33

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

CAST - IN - PLACE
INTERIOR BENT #1
36' CLEAR ROADWAY - 90° SKEW

REVISIONS

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

SHEET NO. 11

TOTAL SHEETS 24

Plans prepared by:
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Consulting Engineers
1011 SCHAUER DR. SUITE #202
RALEIGH, N.C. 27606
For Division of Highways

NOT TO SCALE