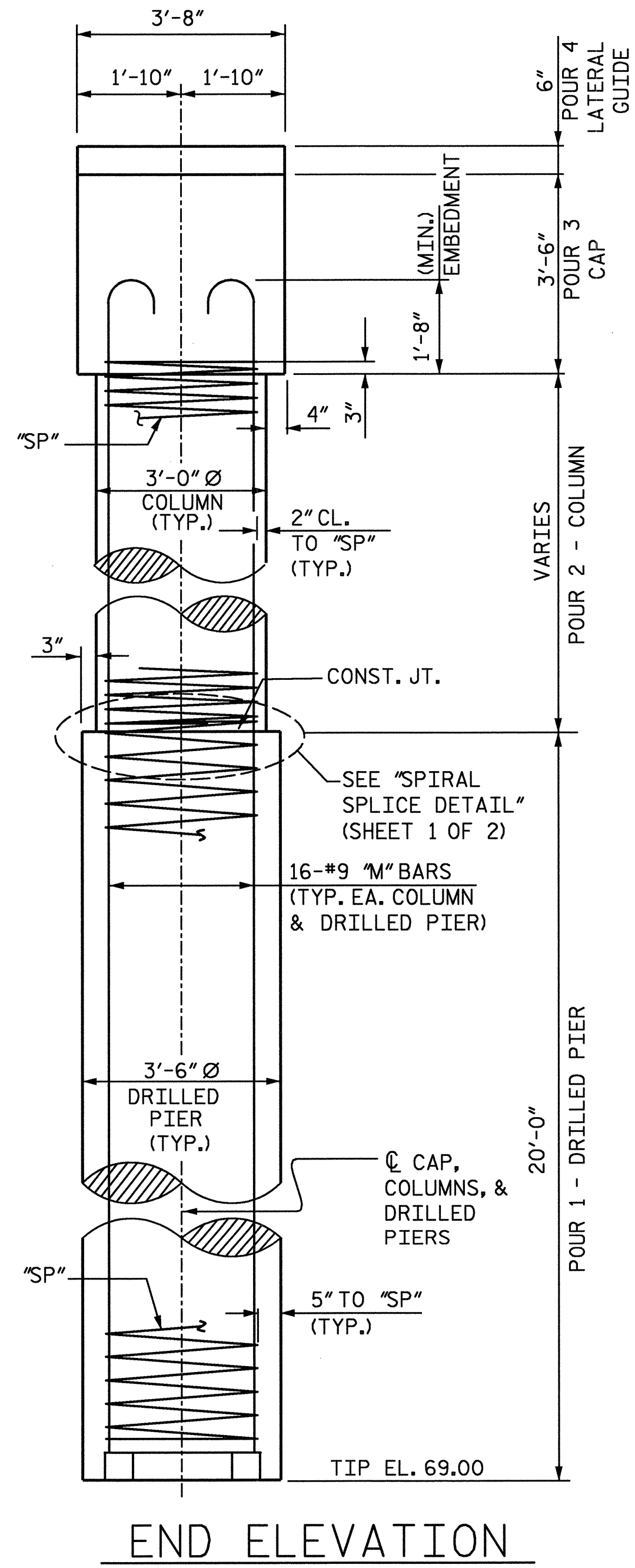
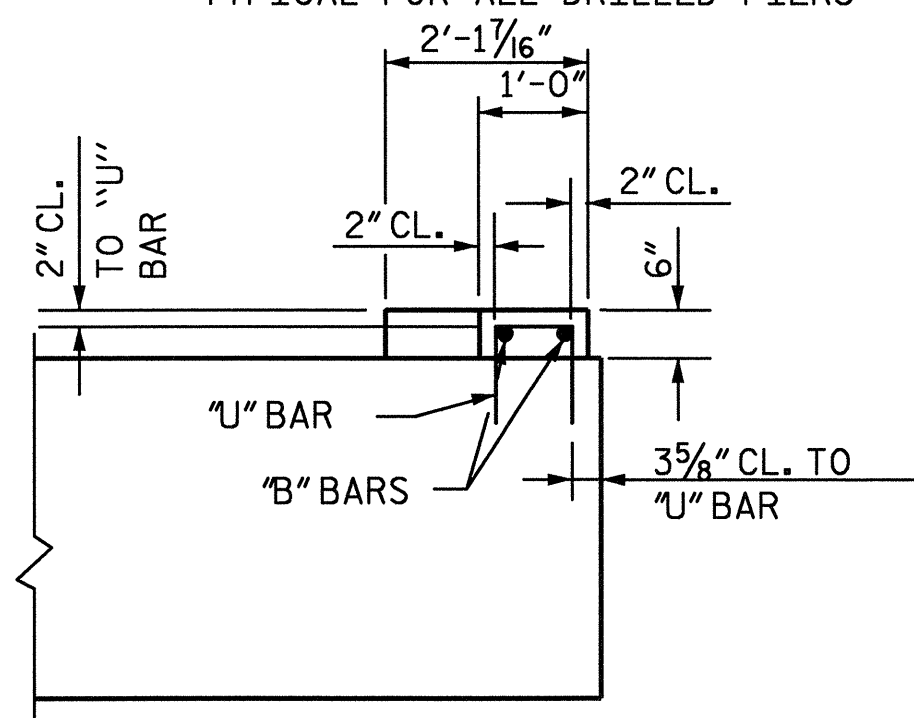


PLAN OF DRILLED PIERS

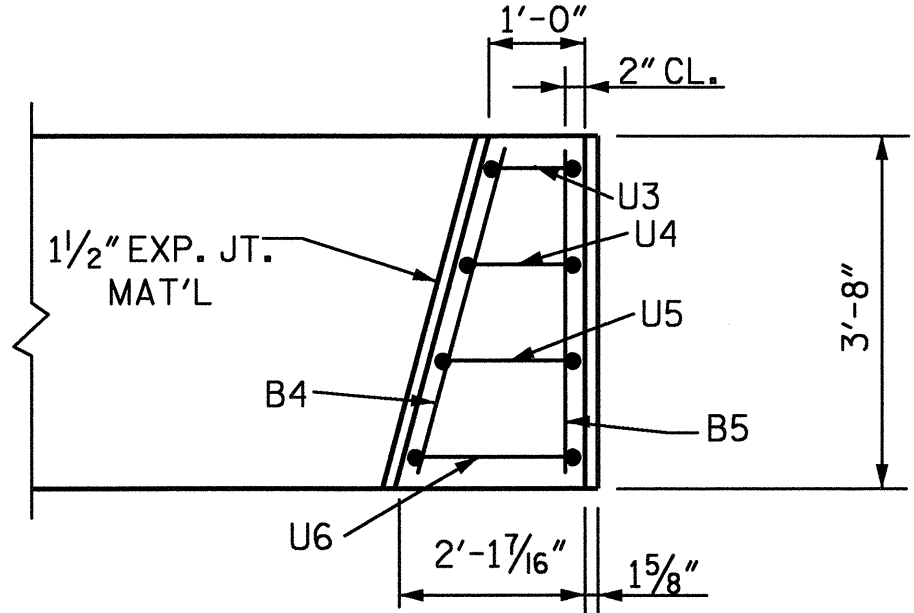
REINFORCING STEEL AND DIMENSIONS ARE TYPICAL FOR ALL DRILLED PIERS



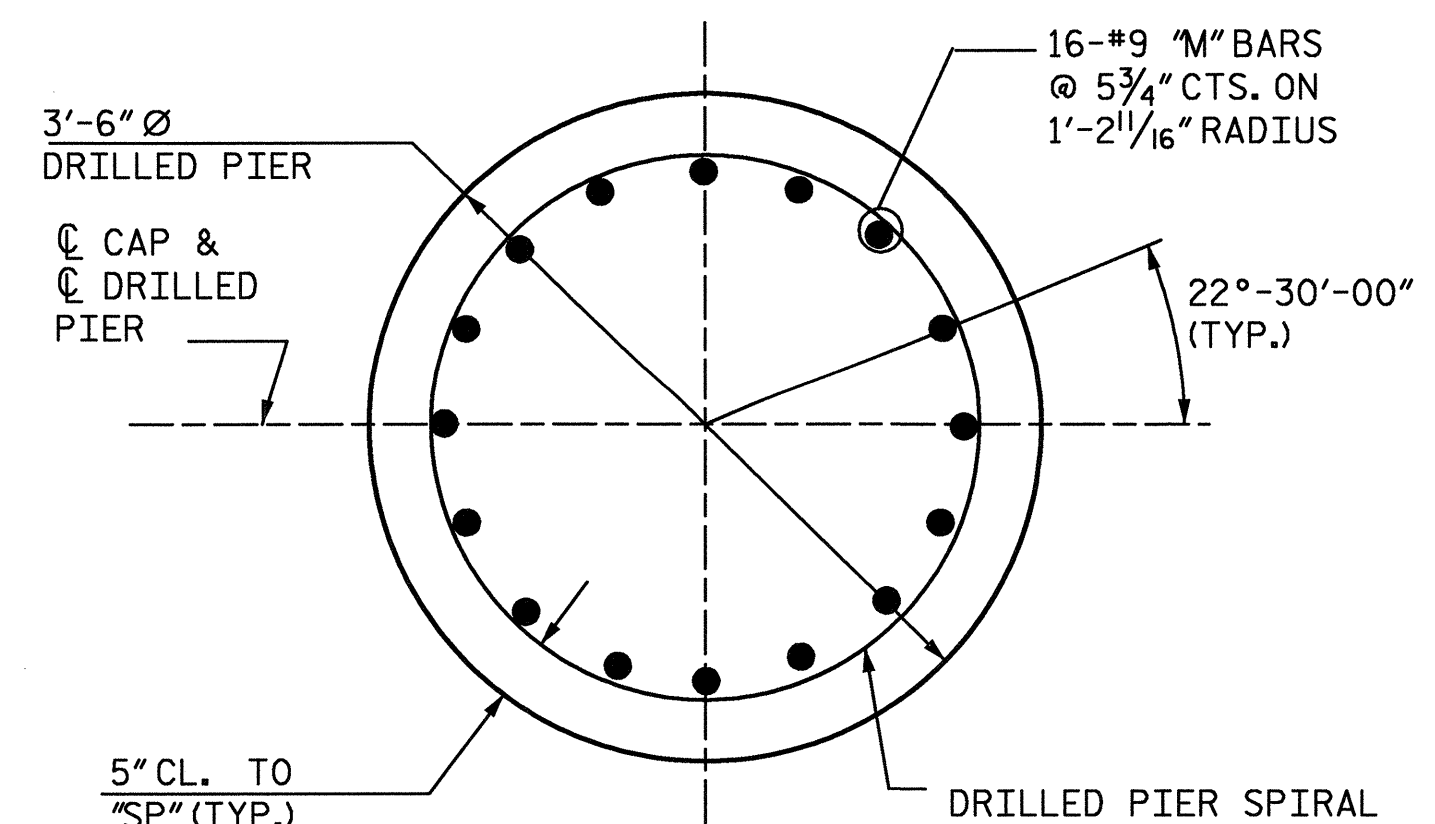
END ELEVATION



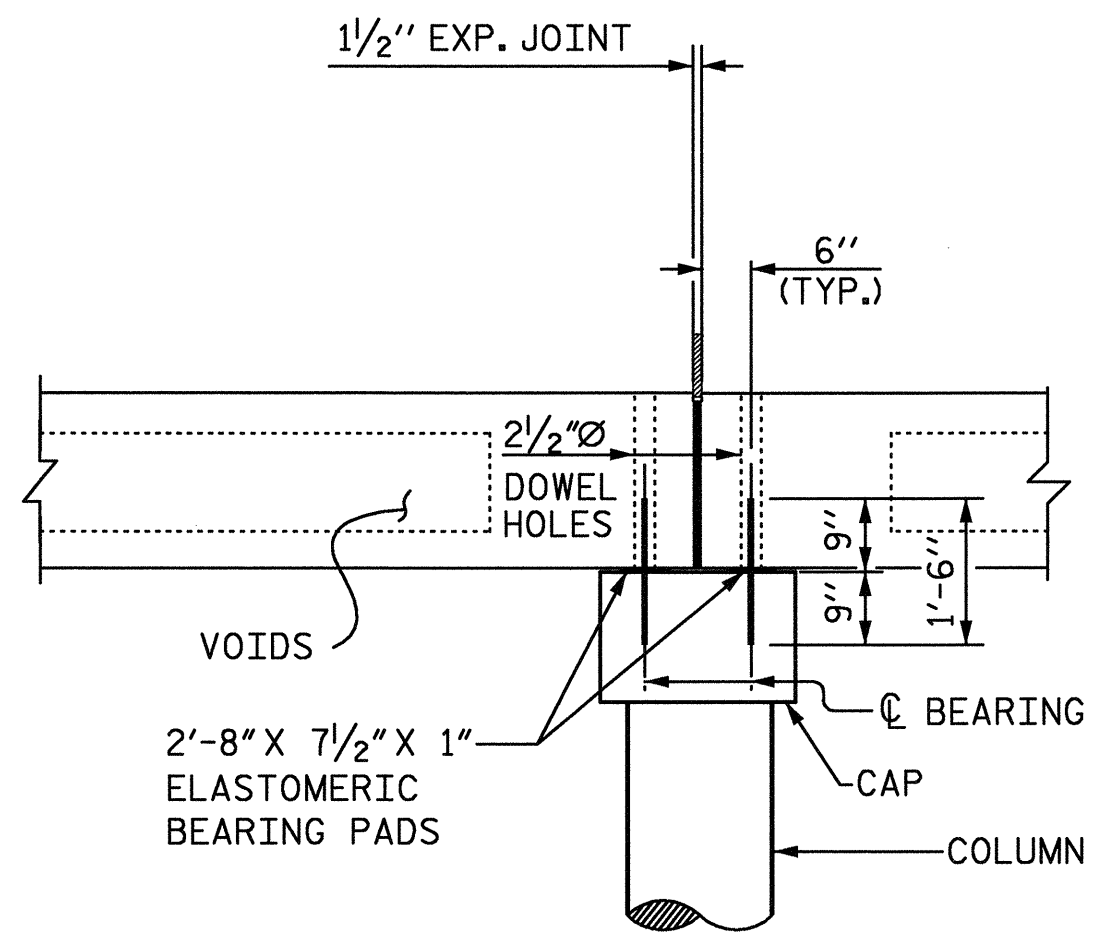
ELEVATION



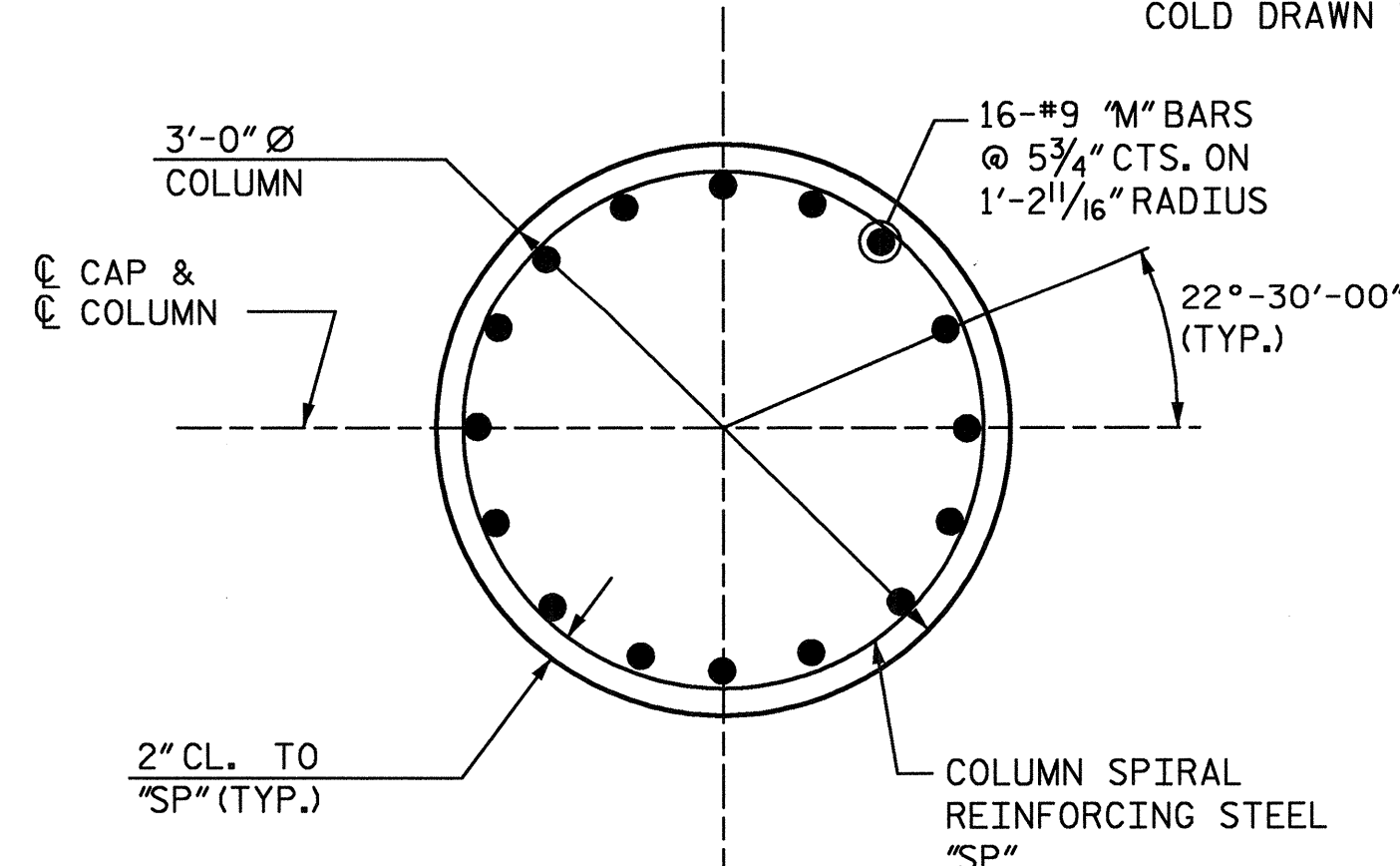
LATERAL GUIDE DETAIL
(TYP. EA. LATERAL GUIDE)



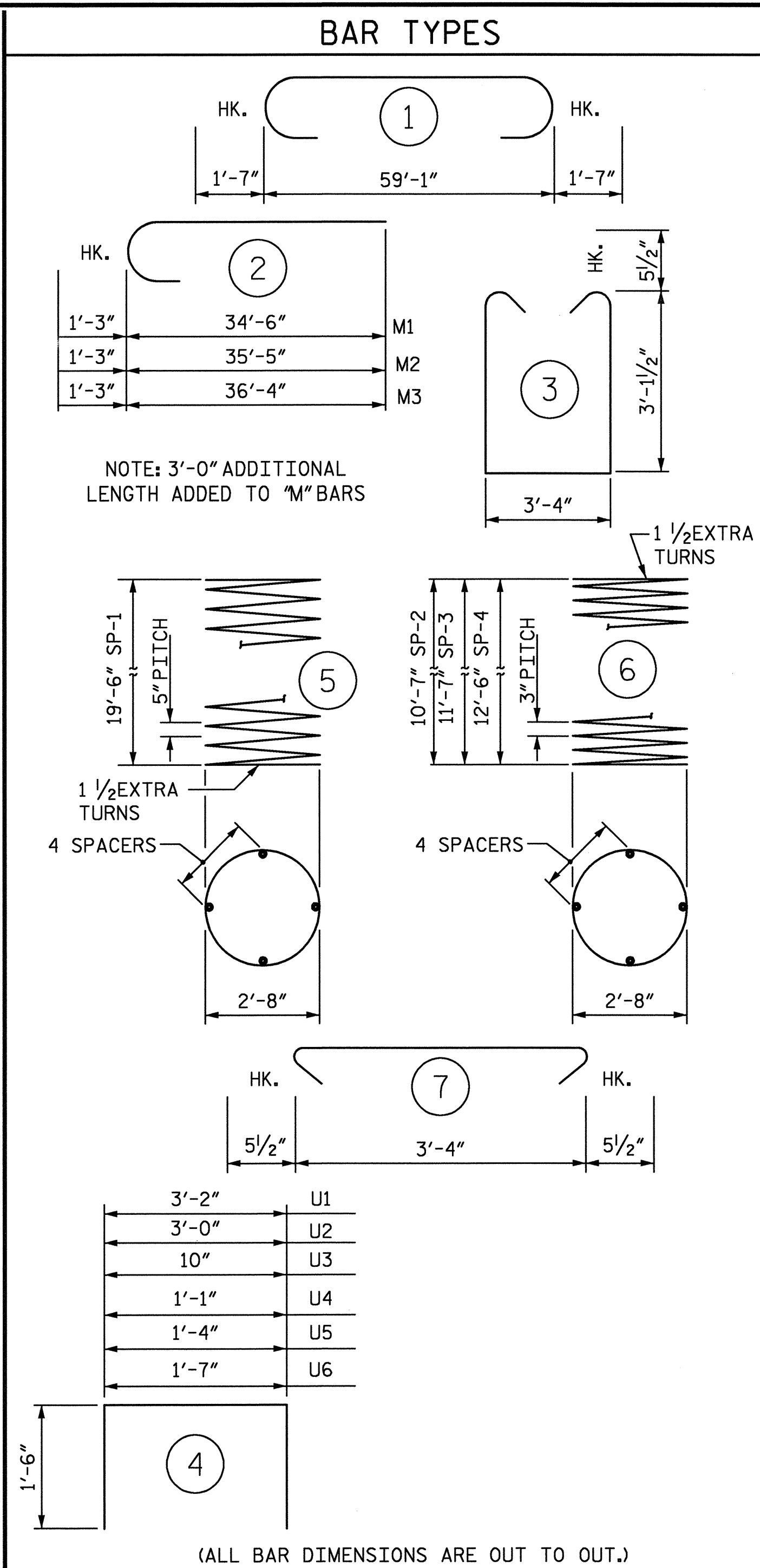
DETAIL "C"



SECTION AT BENT



DETAIL "D"



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

BILL OF MATERIAL

BENT 2

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	6	#11	1	62'-3"	1984
B2	4	#5	STR	59'-1"	246
B3	6	#11	STR	59'-1"	1883
B4	2	#4	STR	3'-5"	5
B5	2	#4	STR	3'-4"	4

D1	72	#6	STR	1'-6"	162
M1	16	#9	2	35'-9"	1945
M2	16	#9	2	36'-8"	1995
M3	16	#9	2	37'-7"	2045

S1	70	#5	3	10'-6"	767
S2	70	#5	7	4'-3"	310
U1	6	#4	4	6'-2"	25
U2	6	#4	4	6'-0"	24
U3	2	#4	4	3'-10"	5
U4	2	#4	4	4'-1"	5
U5	2	#4	4	4'-4"	6
U6	2	#4	4	4'-7"	6

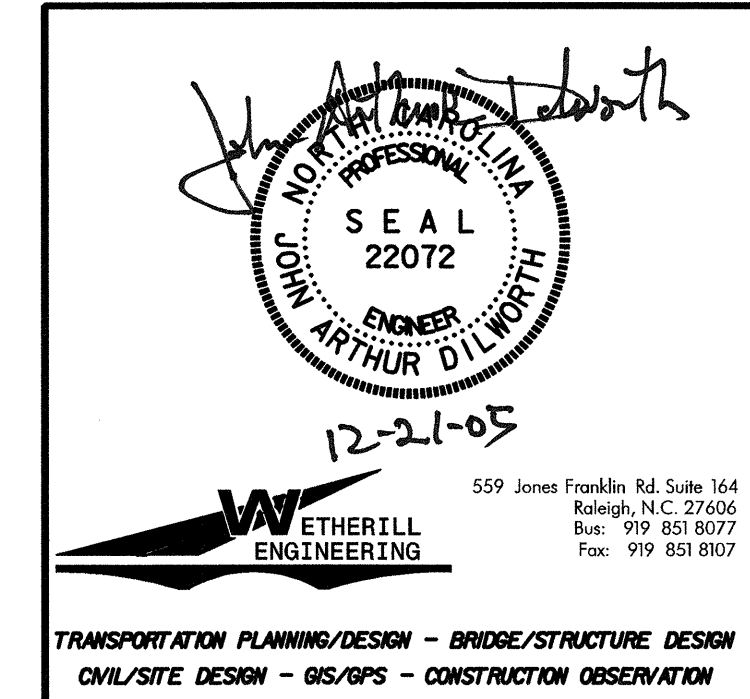
REINFORCING STEEL						11417 LBS.
SP-1	3	*	5	402'-3"	1259	
SP-2	1	**	6	362'-4"	242	
SP-3	1	**	6	403'-6"	270	
SP-4	1	**	6	428'-2"	286	

SPIRAL COLUMN						2057 LBS.
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CLASS A CONCRETE BREAKDOWN					
POUR 2 (COLUMN)					8.8 C.Y.
POUR 3 (CAP)					28.2 C.Y.
POUR 4 (LATERAL GUIDES)					0.2 C.Y.
TOTAL CLASS A CONCRETE					37.2 C.Y.

3'-6" Ø DRILLED PIERS					
DRILLED PIER CONCRETE					
POUR 1 (DRILLED PIERS)					21.4 C.Y.
3'-6" Ø DRILLED PIERS IN SOIL :					
51.0 LIN. FT.					
3'-6" Ø DRILLED PIERS NOT IN SOIL :					
9.0 LIN. FT.					

WBS. NO. 37017
 WAKE COUNTY
 STATION: 14+04.00 -L-
 REPLACES BRIDGE NO. 133
 SHEET 2 OF 2



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE BENT 2					
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			1		
2			2		

PA4:100WAG5001B Structures\DWG\Bents.dgn 12/21/2005 10:12:15 AM

DRAWN BY: J. PENDERGRAFT DATE: 3-05
 CHECKED BY: J. DILWORTH DATE: 3-05

SHEET NO. **S-20**
 TOTAL SHEETS **23**