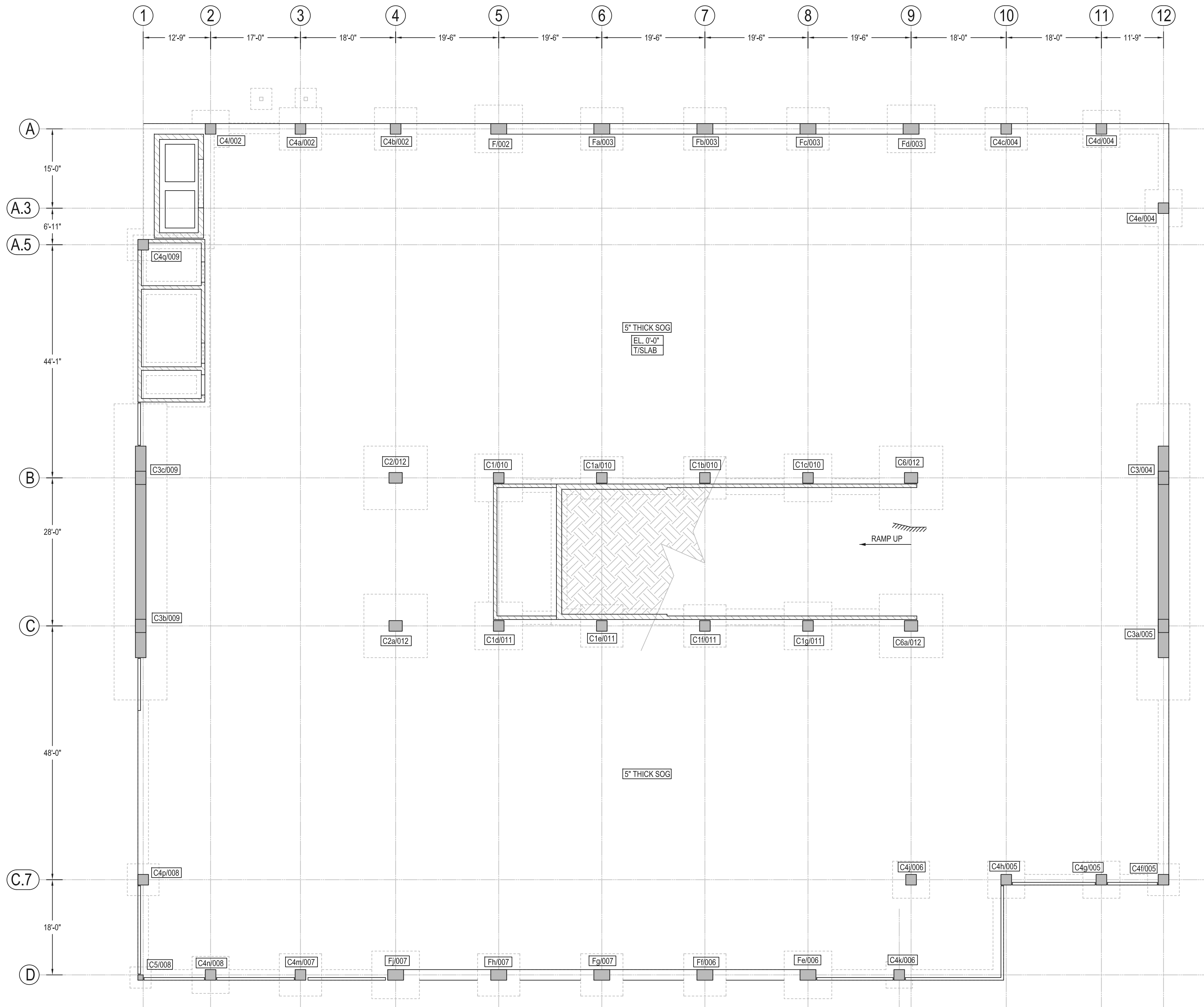
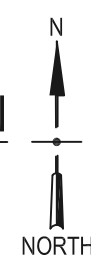




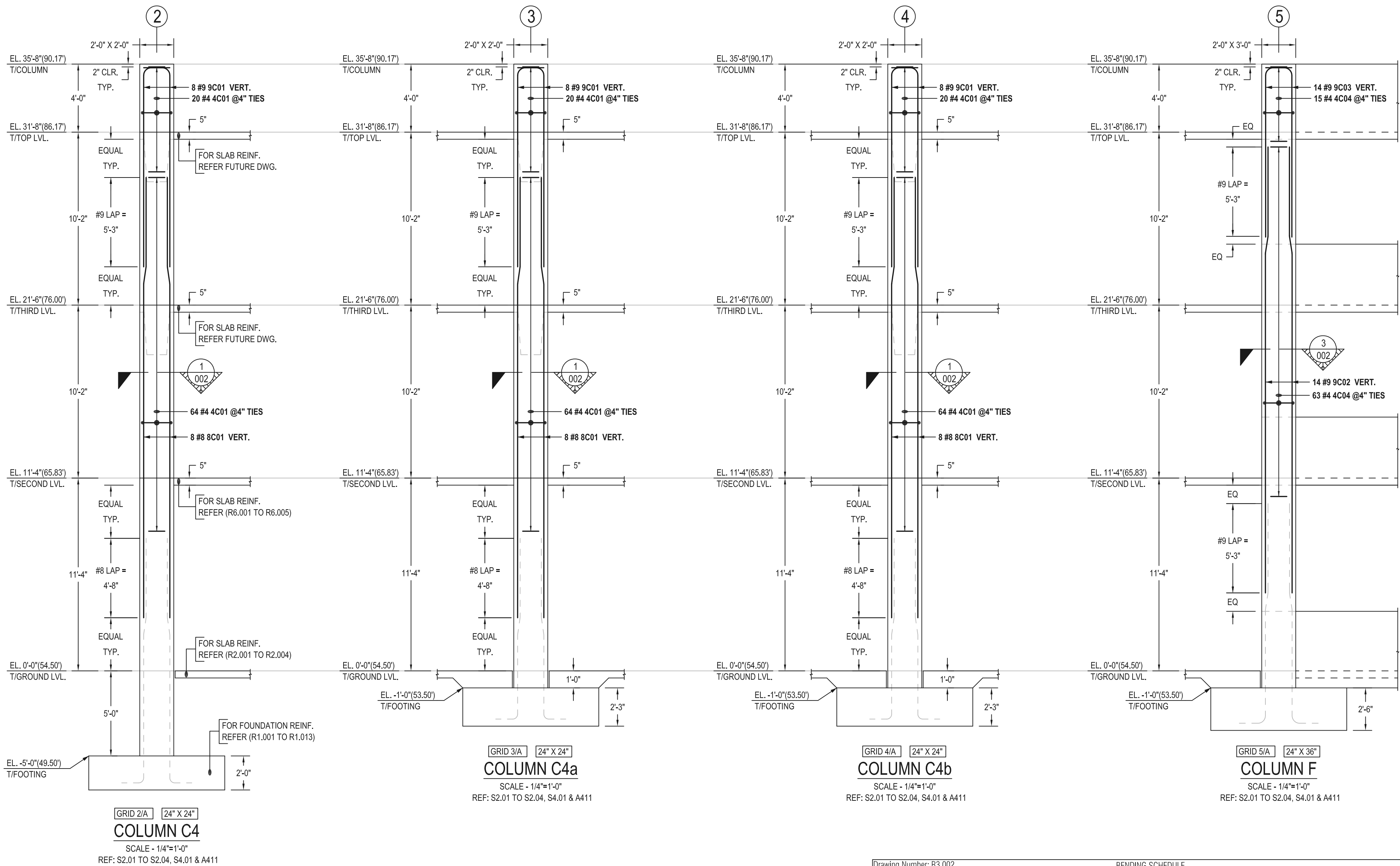
CONCRETE COLUMN KEY PLAN

SCALE - 1/8"=1'-0"
REF:GS2.0, GA2.0&GA2.1



FOR APPROVAL WAIVED

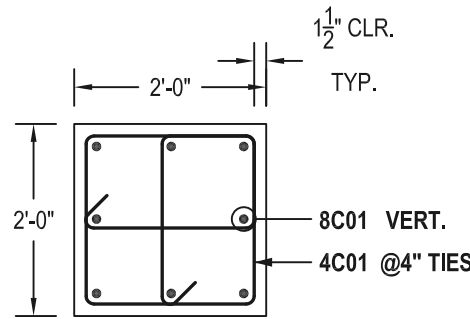
ALL BARS IN THIS DRAWING ASTM A615 GRADE 60 BLACK UNCOATED



SPECIAL BAR	
A = 0'-4 1/2" B = 1'-9" C = 0'-11 1/2" D = 0'-4 1/2" E = 1'-4 1/2" F = 2'-0 3/4" G = 0'-4 1/2"	
L91	BAR MARK = 4C01 @4" TIES
TOTAL LENGTH (B) = 13'-2"	
TOTAL LENGTH = A+C+D+C+C+C+C+D+C+G	

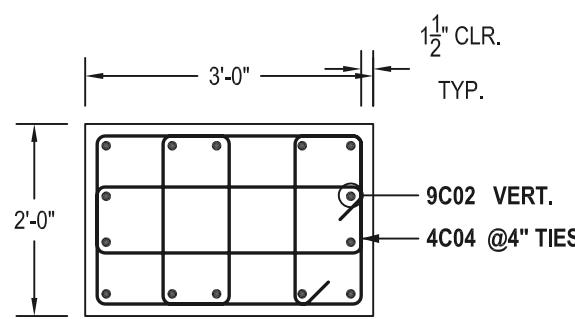
SPECIAL BAR	
A = 0'-4 1/2" B = 1'-9" C = 0'-8 1/4" D = 2'-9" E = 1'-4 1/2" F = 2'-0 3/4" G = 0'-4 1/2"	
L84	BAR MARK = 4C04 @4" TIES
TOTAL LENGTH (B) = 24'-7"	
TOTAL LENGTH = A+B+C+B+D+B+E+B+C+B+F+E+D+C+D+G	

COVER DETAILS	
REF: S4.01	
CLEAR COVER FOR COLUMN	
TIES	1 1/2" CLR. ALLROUND



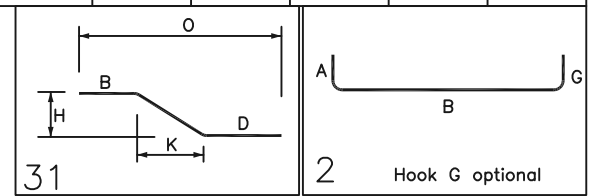
SECTION 1
SCALE - 1/2"=1'-0"
REF: 1/S4.01

LAP SCHEDULE	
REF: S4.02	
FOR COLUMN	
#8	4'-8"
#9	5'-3"
#10	5'-11"



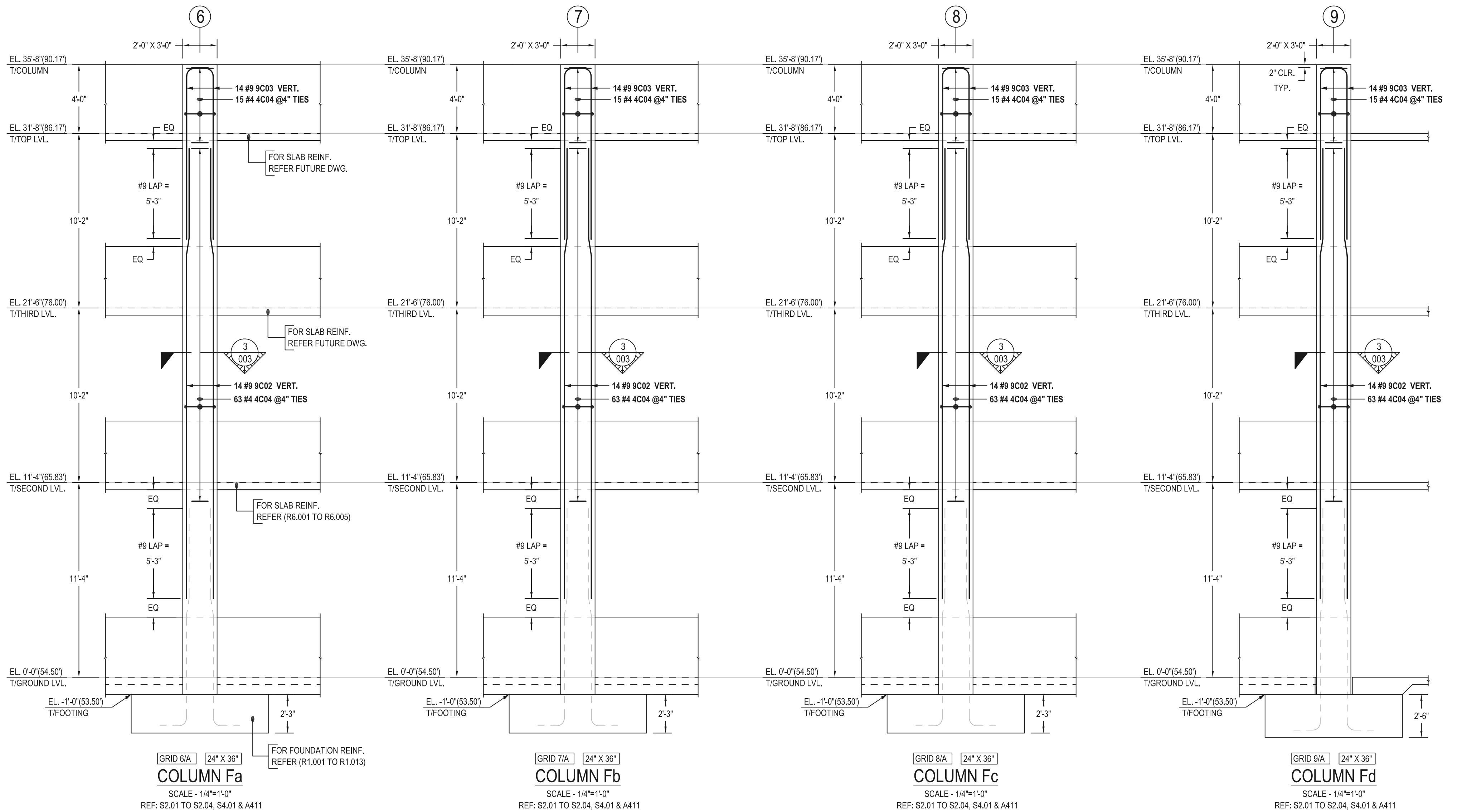
SECTION 3
SCALE - 1/2"=1'-0"
REF: 5/S3.12

Drawing Number: R3.002		BENDING SCHEDULE													
Bar Mark	Qty	Size	Total Length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'R'
4C01	252	#4	13'-2"	L91	0'-4 1/2"		1'-9"	0'-11 1/2"			0'-4 1/2"				
4C04	78	#4	24'-7"	L84	0'-4 1/2"	1'-9"	0'-8 1/4"	2'-9"	1'-4 1/2"	2'-0 3/4"	0'-4 1/2"				
8C01	24	#8	25'-11"	31		5'-3"	1'-0 1/2"	19'-7 1/2"				0'-2 1/2"		1'-0"	25'-10 1/2"
9C01	24	#9	13'-4"	2	1'-7"		11'-9"								
9C02	14	#9	26'-3"	31		5'-3"	1'-0 1/2"	19'-11 1/2"				0'-3"		1'-0"	26'-2 1/2"
9C03	14	#9	11'-7"	2	1'-7"	10'-0"									

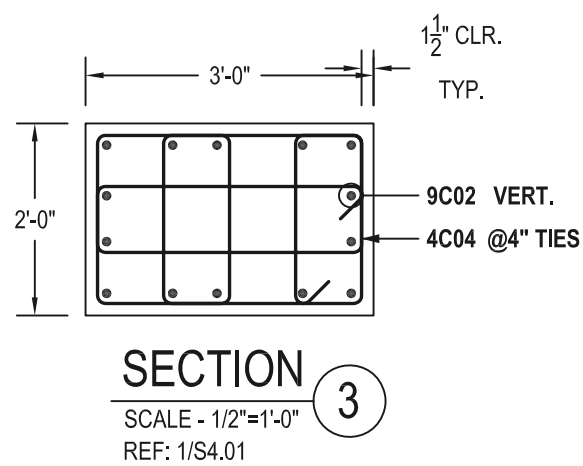


FOR APPROVAL WAIVED

ALL BARS IN THIS DRAWING ASTM A615 GRADE 60 BLACK UNCOATED



SPECIAL BAR	
A = 0'-4 1/2\"/>	
B = 1'-9\"/>	
C = 0'-8 1/2\"/>	
D = 2'-9\"/>	
E = 1'-4 1/2\"/>	
F = 2'-0 3/4\"/>	
G = 0'-4 1/2\"/>	
L84	BAR MARK = 4C04 @4\"/>
TOTAL LENGTH (B) = 24'-7\"/>	
TOTAL LENGTH = A+B+C+B+D+B+E+B+C+B+F+E+D+C+D+G	



COVER DETAILS	
REF: S4.01	
CLEAR COVER FOR COLUMN	
TIES	1 1/2\"/>

LAP SCHEDULE	
REF: S4.02	
FOR COLUMN	
#8	4'-8\"/>
#9	5'-3\"/>
#10	5'-11\"/>

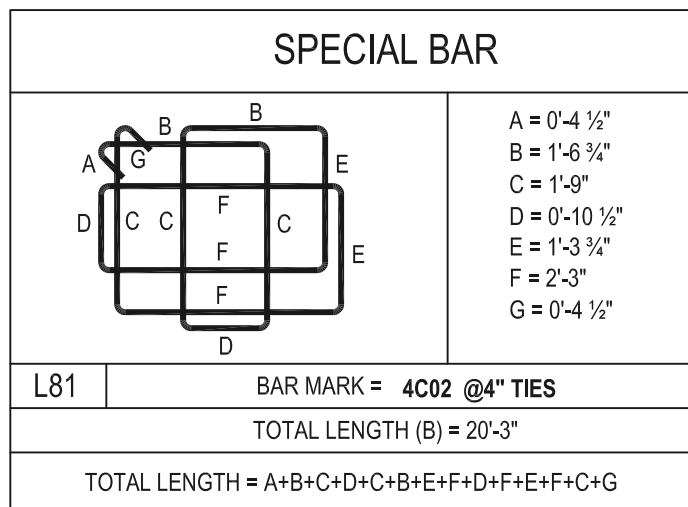
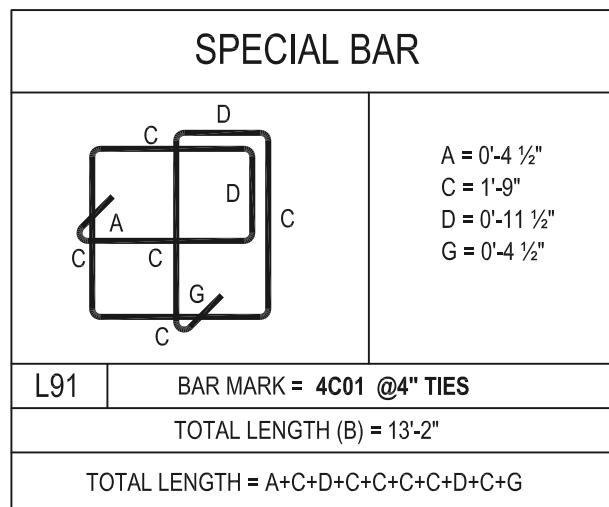
Drawing Number: R3.003				BENDING SCHEDULE												
Bar Mark	Qty	Size	Total Length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'R'
4C04	312	#4	24'-7"	L84	0'-4 1/2"	1'-9"	0'-8 1/2"	2'-9"	1'-4 1/2"	2'-0 3/4"	0'-4 1/2"					
9C02	56	#9	26'-3"	31		5'-3"	1'-0 1/2"	19'-11 1/2"				0'-3"		1'-0"	26'-2 1/2"	
9C03	56	#9	11'-7"	2	1'-7"	10'-0"										

Diagram of a bent bar with dimensions: O (overall length), B (top horizontal segment), D (bottom horizontal segment), K (vertical offset), and H (height of the bend).

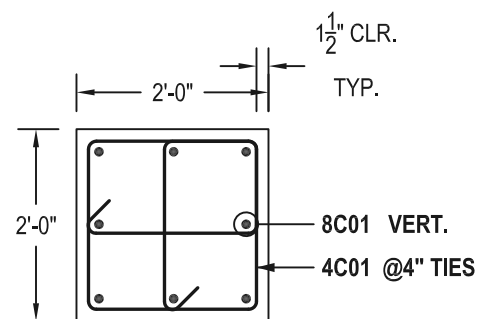
Diagram of a hook with dimension G (hook length).

31

2 Hook G optional

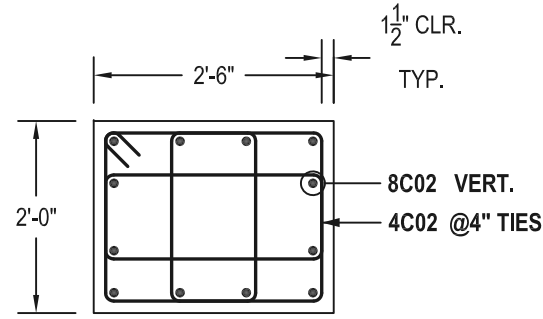


COVER DETAILS	
REF: S4.01	
CLEAR COVER FOR COLUMN	
TIES	1 1/2" CLR. ALLROUND



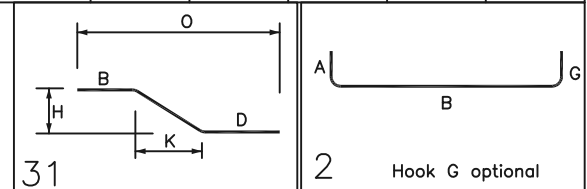
SECTION 1
SCALE - 1/2"=1'-0"
REF: 1/S4.01

LAP SCHEDULE	
REF: S4.02	
FOR COLUMN	
#8	4'-8"
#9	5'-3"
#10	5'-11"



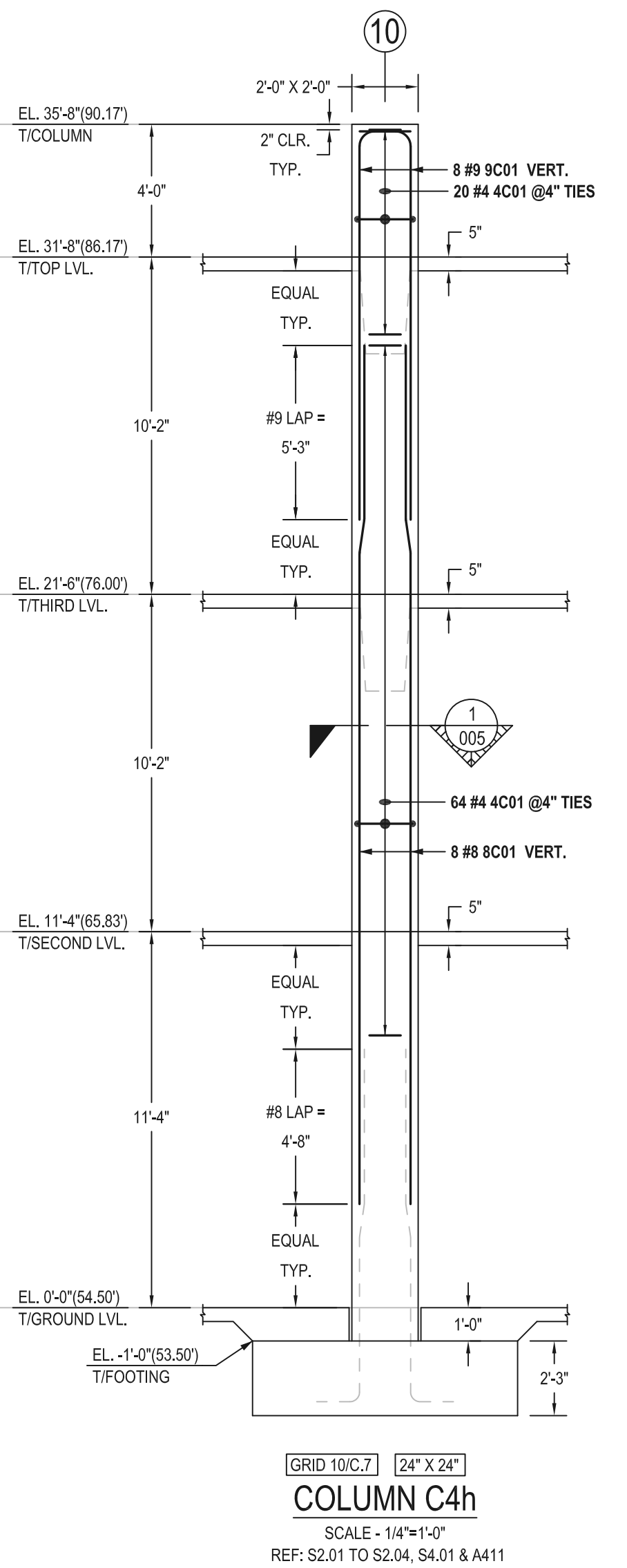
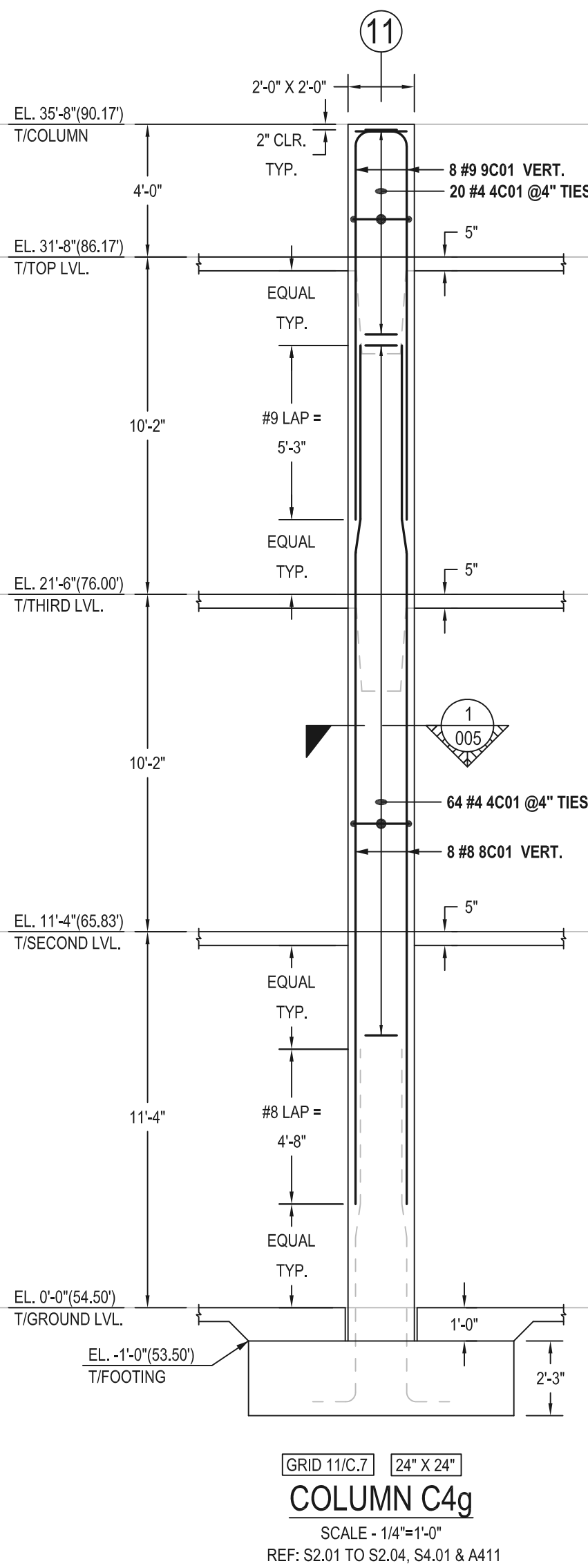
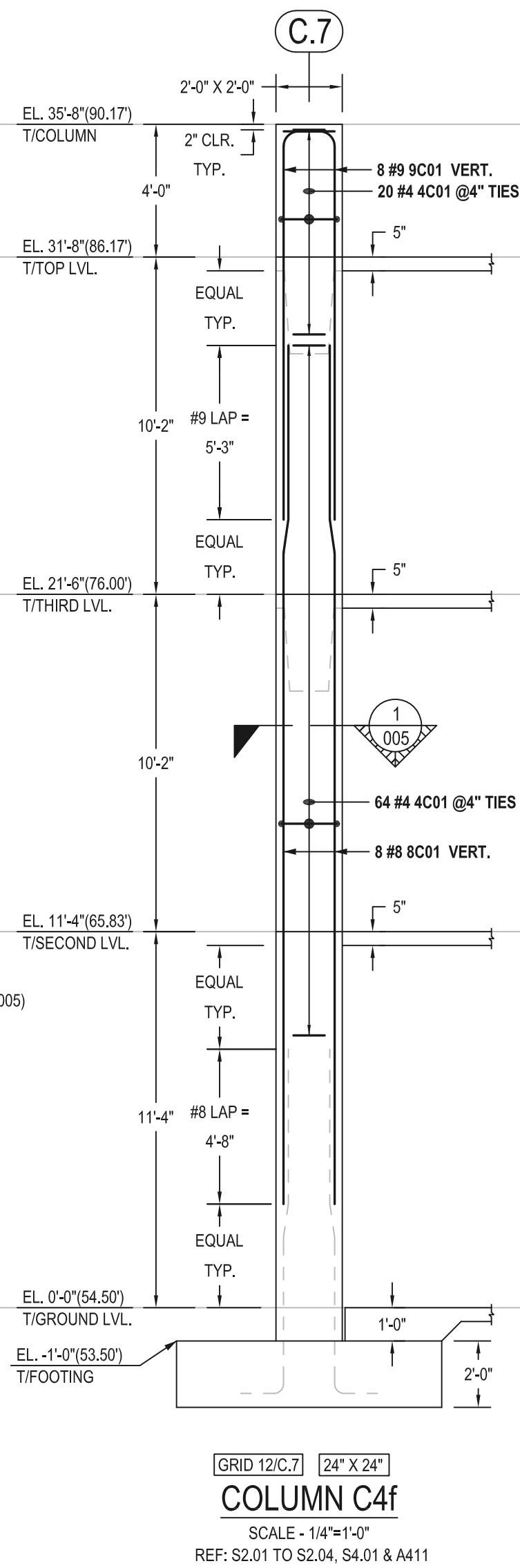
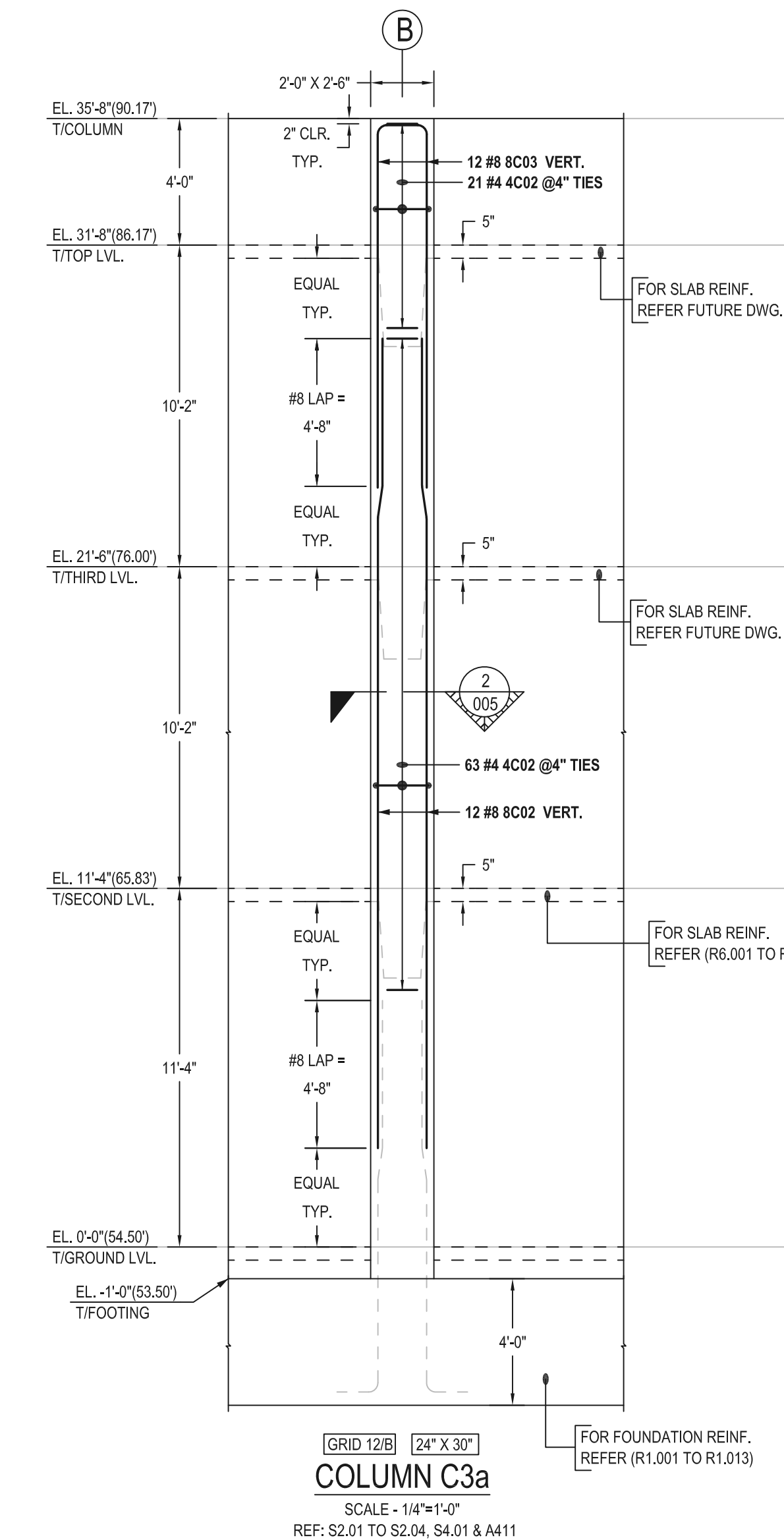
SECTION 2
SCALE - 1/2"=1'-0"
REF: 2/S4.01

Drawing Number: R3.004		BENDING SCHEDULE													
Bar Mark	Qty	Size	Total Length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'
4C01	252	#4	13'-2"	L91	0'-4 1/2"	1'-6 3/4"	1'-9"	0'-11 1/2"	1'-3 3/4"	2'-3"	0'-4 1/2"				
4C02	84	#4	20'-3"	L81	0'-4 1/2"	1'-6 3/4"	1'-9"	0'-10 1/2"	1'-3 3/4"	2'-3"	0'-4 1/2"				
8C01	24	#8	25'-11"	31		5'-3"	1'-0 1/2"	19'-7 1/2"				0'-2 1/2"		1'-0"	25'-10 1/2"
8C02	12	#8	25'-7"	31		4'-8"	1'-0 1/2"	19'-11"				0'-2 1/2"		1'-0"	25'-7"
8C03	12	#8	12'-10"	2	1'-4"	11'-6"									
9C01	24	#9	13'-4"	2	1'-7"	11'-9"									



FOR APPROVAL WAIVED

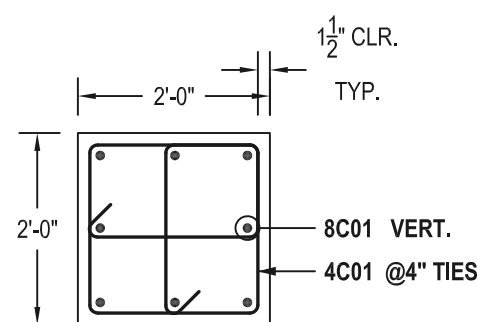
ALL BARS IN THIS DRAWING ASTM A615 GRADE 60 BLACK UNCOATED



SPECIAL BAR	
L91	BAR MARK = 4C01 @ 4" TIES
TOTAL LENGTH (B) = 13'-2"	
TOTAL LENGTH = A+C+D+C+C+C+C+D+C+G	

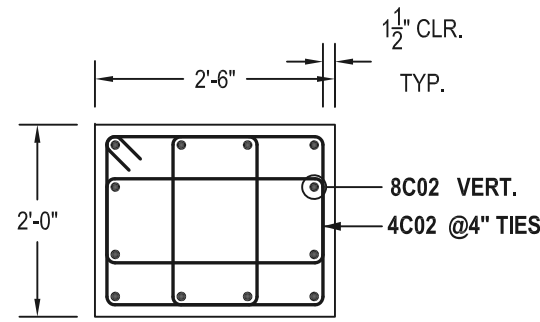
SPECIAL BAR	
L81	BAR MARK = 4C02 @ 4" TIES
TOTAL LENGTH (B) = 20'-3"	
TOTAL LENGTH = A+B+C+D+C+B+E+F+D+F+E+F+C+G	

COVER DETAILS	
REF: S4.01	
CLEAR COVER FOR COLUMN	
TIES	1 1/2" CLR. ALLROUND



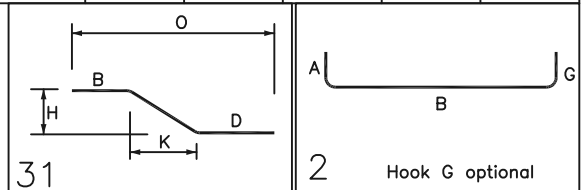
SECTION 1
 SCALE - 1/2"=1'-0"
 REF: 1/S4.01

LAP SCHEDULE	
REF: S4.02	
FOR COLUMN	
#8	4'-8"
#9	5'-3"
#10	5'-11"



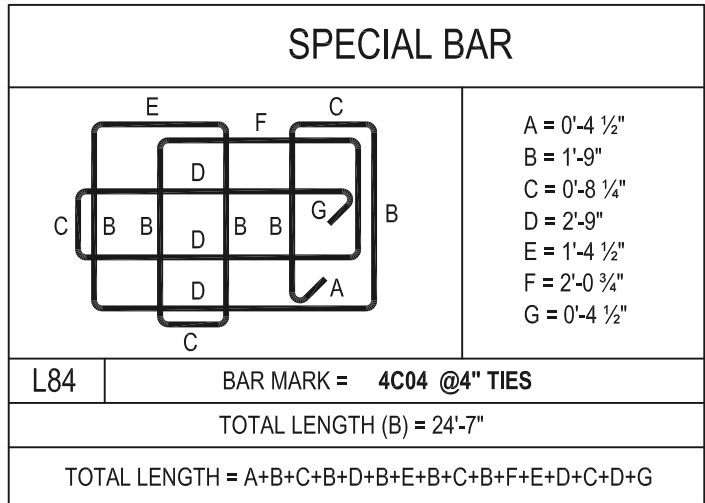
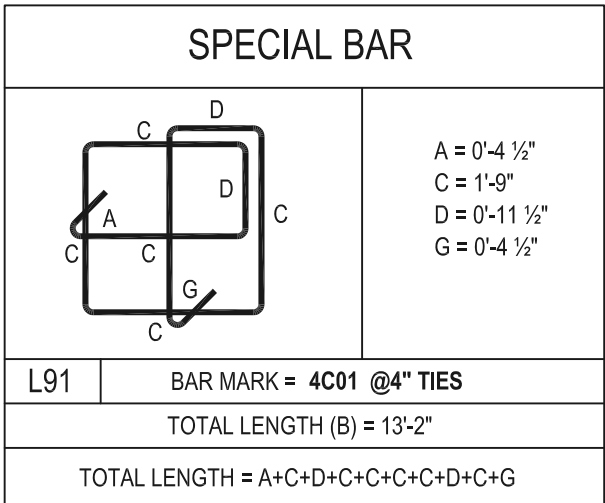
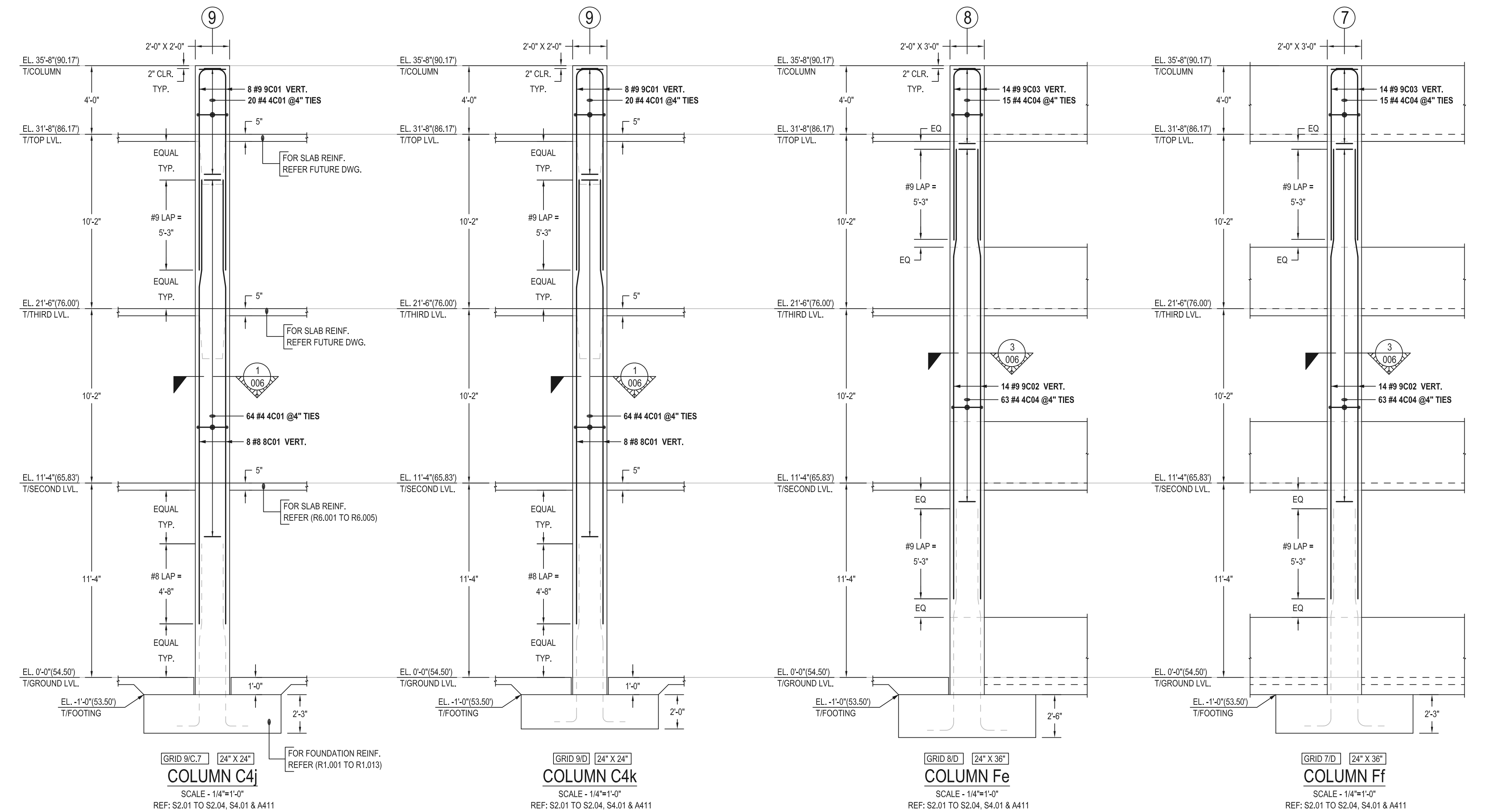
SECTION 2
 SCALE - 1/2"=1'-0"
 REF: 2/S4.01

Drawing Number: R3.005		BENDING SCHEDULE												
Bar Mark	Qty	Size	Total Length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'
4C01	252	#4	13'-2"	L91	0'-4 1/2"		1'-9"	0'-11 1/2"			0'-4 1/2"			
4C02	84	#4	20'-3"	L81	0'-4 1/2"	1'-6 1/2"	1'-9"	0'-10 1/2"	1'-3 1/2"	2'-3"	0'-4 1/2"			
8C01	24	#8	25'-11"	31		5'-3"	1'-0 1/2"	19'-7 1/2"				0'-2 3/4"		1'-0"
8C02	12	#8	25'-7"	31		4'-8"	1'-0 1/2"	19'-11"				0'-2 3/4"		1'-0"
8C03	12	#8	12'-10"	2	1'-4"	11'-6"								
9C01	24	#9	13'-4"	2	1'-7"	11'-9"								

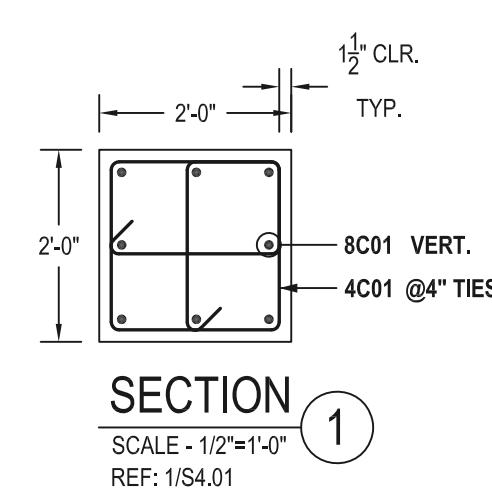


FOR APPROVAL WAIVED

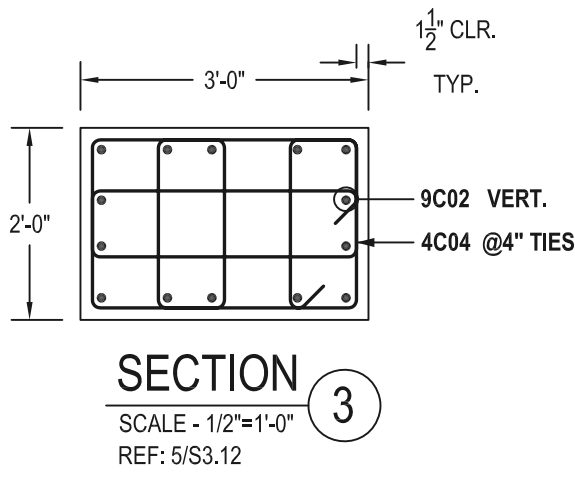
ALL BARS IN THIS DRAWING ASTM A615 GRADE 60 BLACK UNCOATED



COVER DETAILS	
REF: S4.01	
CLEAR COVER FOR COLUMN	
TIES	1 1/2" CLR. ALLROUND



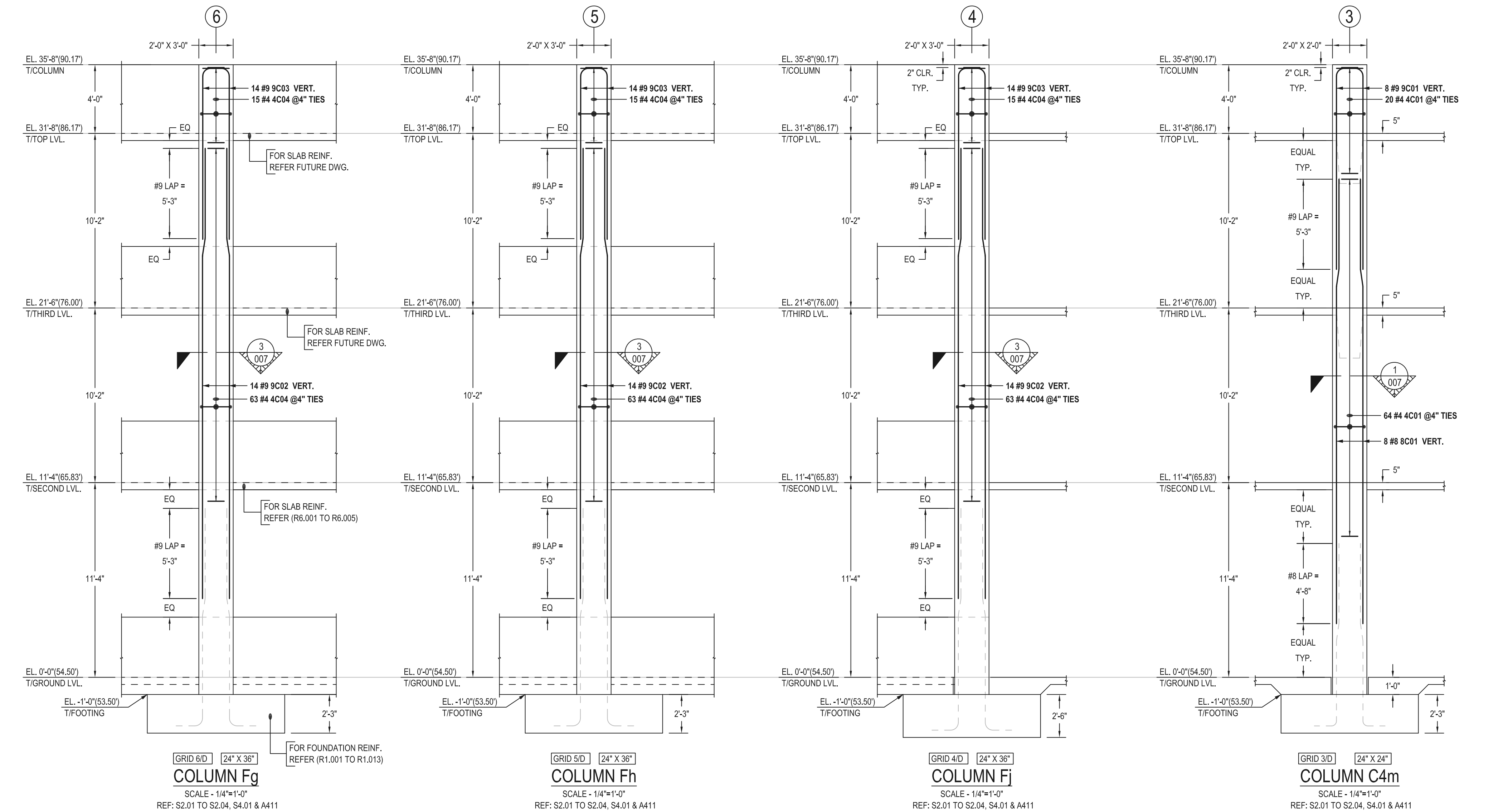
LAP SCHEDULE	
REF: S4.02	
FOR COLUMN	
#8	4'-8"
#9	5'-3"
#10	5'-11"



Drawing Number: R3.006					BENDING SCHEDULE											
Bar Mark	Qty	Size	Total Length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'R'
4C01	168	#4	13'-2"	L91	0'-4 1/2"		1'-9"	0'-11 1/2"			0'-4 1/2"					
4C04	156	#4	24'-7"	L84	0'-4 1/2"	1'-9"	0'-8 1/4"	2'-9"	1'-4 1/2"	2'-0 3/4"	0'-4 1/2"					
8C01	16	#8	25'-11"	31		5'-3"	1'-0 1/4"	19'-7 1/2"				0'-2 1/2"		1'-0"	25'-10 1/2"	
9C01	16	#9	13'-4"	2	1'-7"	11'-9"										
9C02	28	#9	26'-3"	31		5'-3"	1'-0 1/4"	19'-11 1/2"				0'-3"		1'-0"	26'-2 1/2"	
9C03	28	#9	11'-7"	2	1'-7"	10'-0"										

31

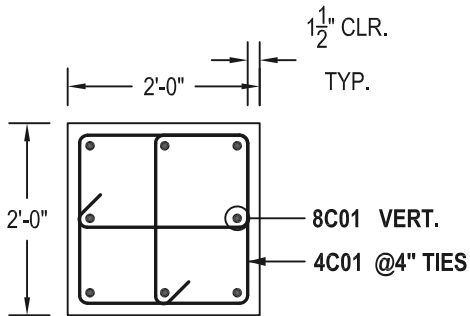
2 Hook G optional



SPECIAL BAR	
	A = 0'-4 1/2" B = 1'-9" C = 0'-8 1/4" D = 2'-9" E = 1'-4 1/2" F = 2'-0 3/4" G = 0'-4 1/2"
L91	BAR MARK = 4C01 @4" TIES
TOTAL LENGTH (B) = 13'-2"	
TOTAL LENGTH = A+C+D+C+B+D+C+C+D+C+G	

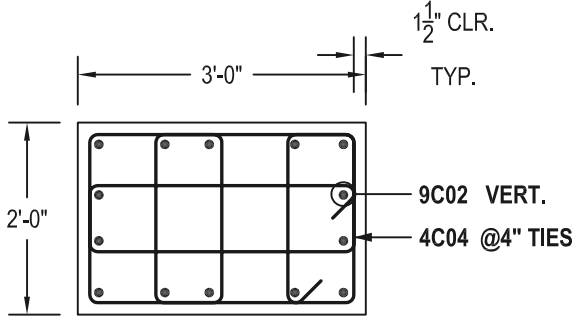
SPECIAL BAR	
	A = 0'-4 1/2" B = 1'-9" C = 0'-8 1/4" D = 2'-9" E = 1'-4 1/2" F = 2'-0 3/4" G = 0'-4 1/2"
L84	BAR MARK = 4C04 @4" TIES
TOTAL LENGTH (B) = 24'-7"	
TOTAL LENGTH = A+B+C+B+D+B+E+B+C+B+F+E+D+C+D+G	

COVER DETAILS	
REF: S4.01	
CLEAR COVER FOR COLUMN	
TIES	1 1/2" CLR. ALLROUND



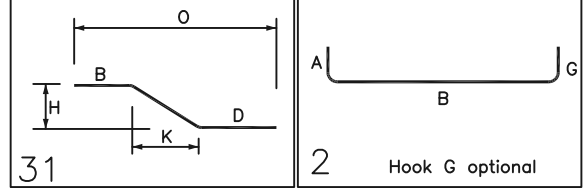
SECTION 1
SCALE - 1/2"=1'-0"
REF: 1/S4.01

LAP SCHEDULE	
REF: S4.02	
FOR COLUMN	
#8	4'-8"
#9	5'-3"
#10	5'-11"



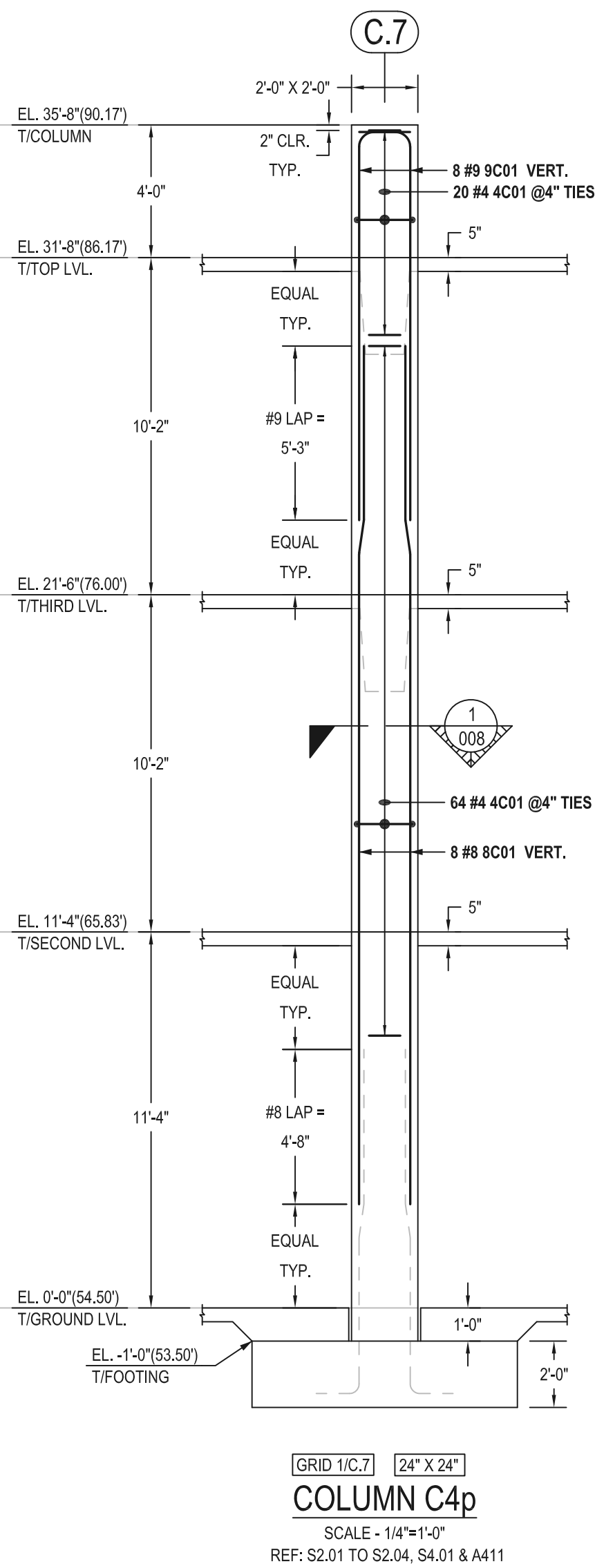
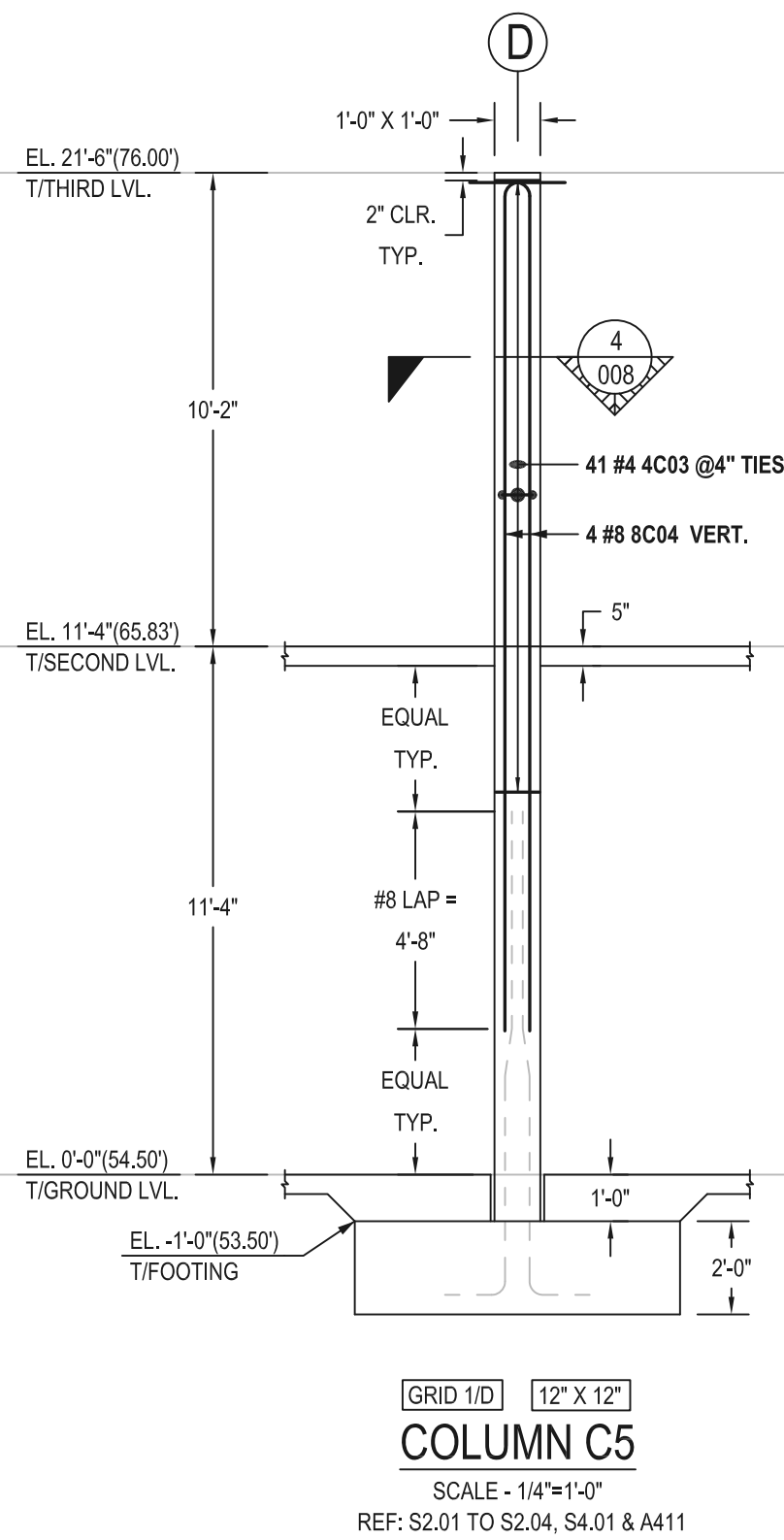
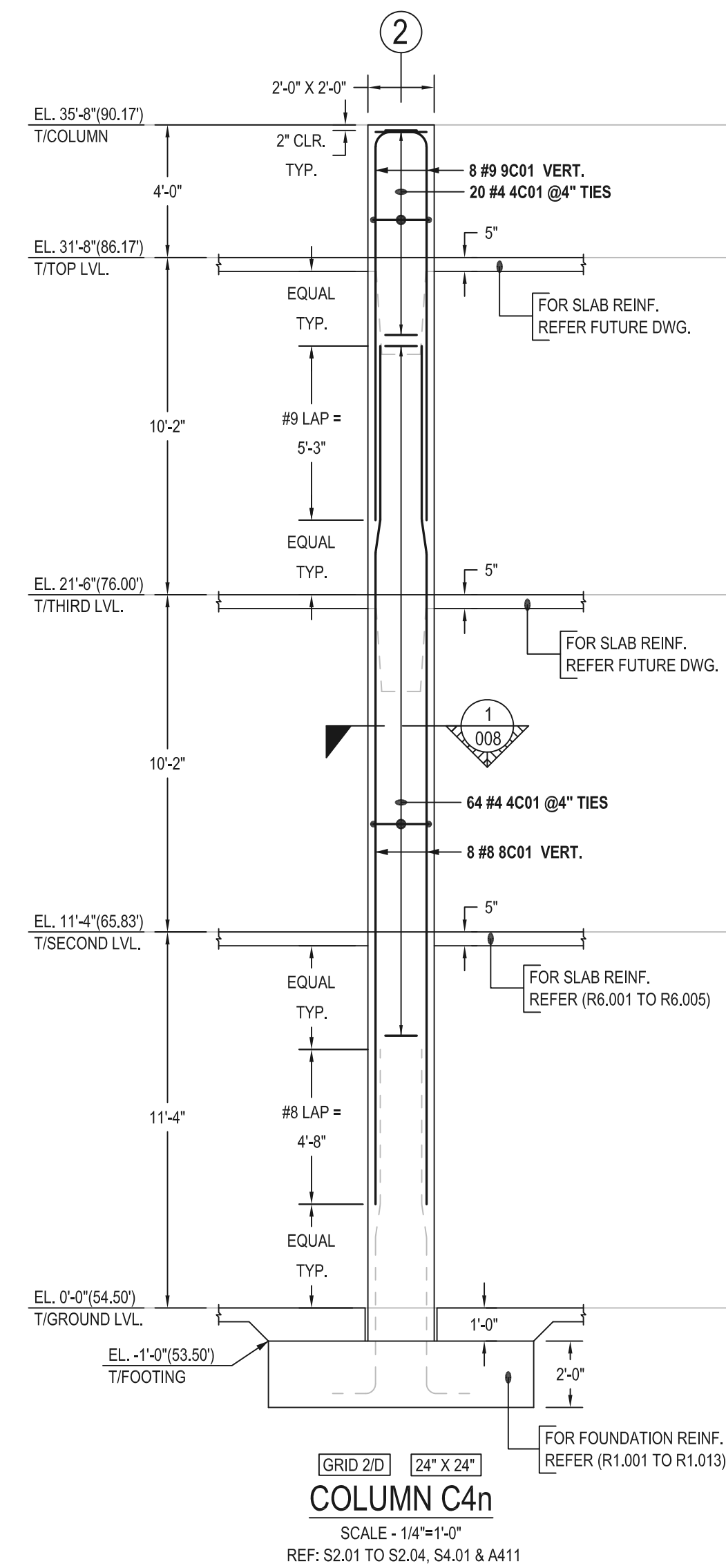
SECTION 3
SCALE - 1/2"=1'-0"
REF: 5/S3.12

Drawing Number: R3.007				BENDING SCHEDULE												
Bar Mark	Qty	Size	Total Length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'R'
4C01	84	#4	13'-2"	L91	0'-4 1/2"		1'-9"	0'-11 1/2"			0'-4 1/2"					
4C04	234	#4	24'-7"	L84	0'-4 1/2"	1'-9"	0'-8 1/2"	2'-9"	1'-4 1/2"	2'-0 1/2"	0'-4 1/2"					
8C01	8	#8	25'-11"	31		5'-3"	1'-0 1/2"	19'-7 1/2"				0'-2 1/2"		1'-0"	25'-10 1/2"	
9C01	8	#9	13'-4"	2	1'-7"	11'-9"										
9C02	42	#9	26'-3"	31		5'-3"	1'-0 1/2"	19'-11 1/2"				0'-3"		1'-0"	26'-2 1/2"	
9C03	42	#9	11'-7"	2	1'-7"	10'-0"										

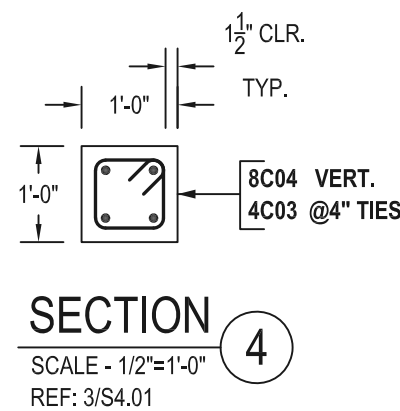
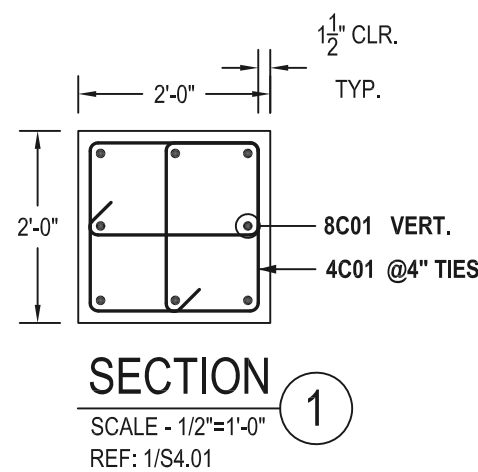


FOR APPROVAL WAIVED

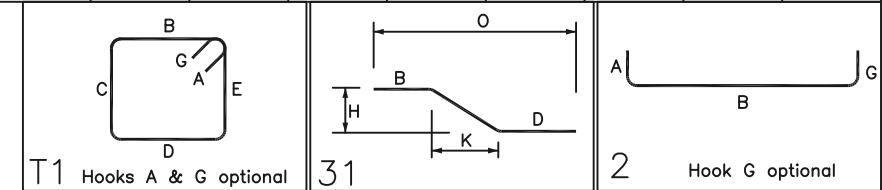
ALL BARS IN THIS DRAWING ASTM A615 GRADE 60 BLACK UNCOATED



SPECIAL BAR	
A = 0'-4 1/2" C = 1'-9" D = 0'-11 1/2" G = 0'-4 1/2"	
L91	BAR MARK = 4C01 @4" TIES
TOTAL LENGTH (B) = 13'-2"	
TOTAL LENGTH = A+C+D+C+C+C+C+D+C+G	

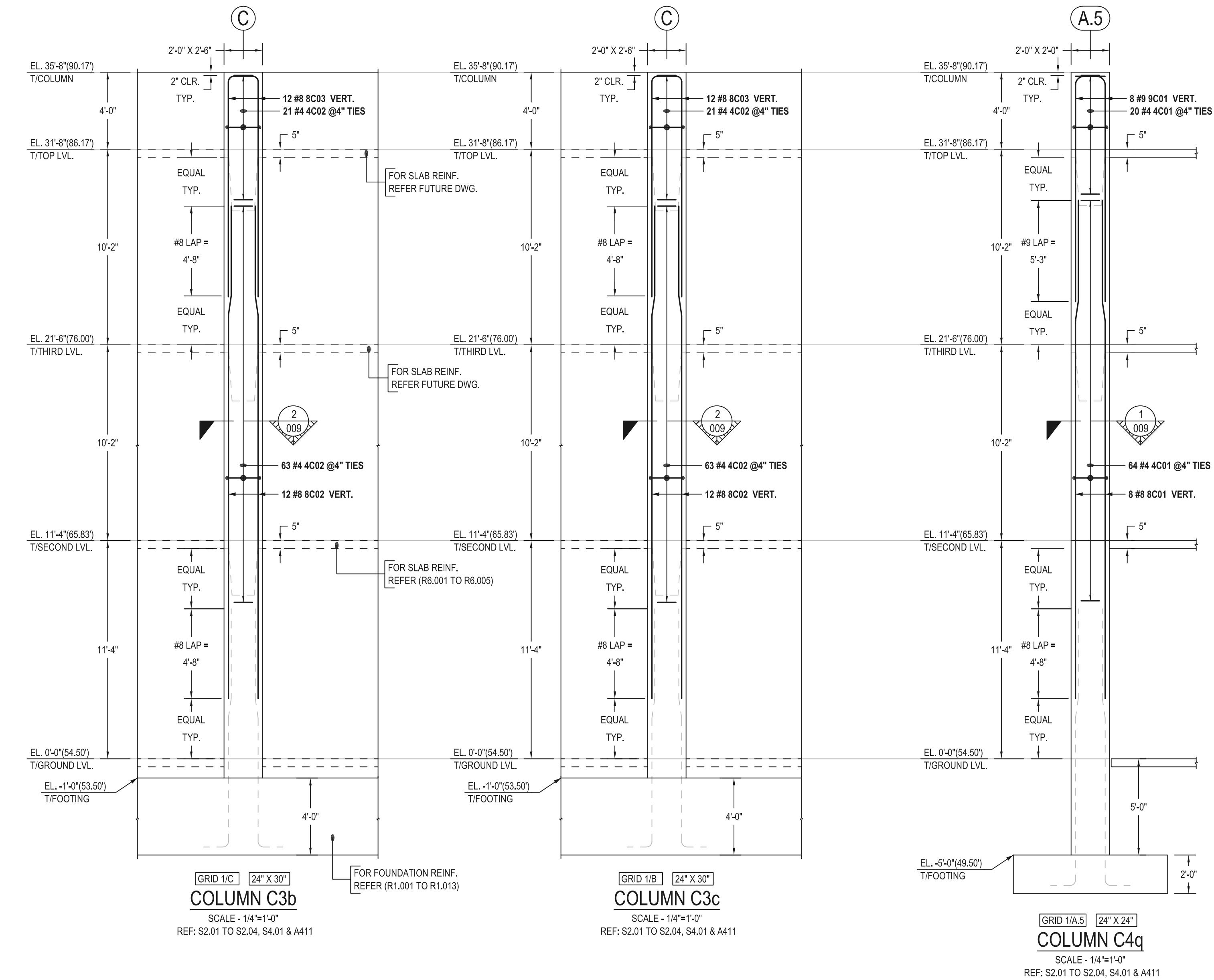


Drawing Number: R3.008				BENDING SCHEDULE											
Bar Mark	Qty	Size	Total Length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'
4C01	168	#4	13'-2"	L91	0'-4 1/2"		1'-9"	0'-11 1/2"			0'-4 1/2"				
4C03	41	#4	3'-9"	T1	0'-4 1/2"	0'-9"	0'-9"	0'-9"	0'-9"		0'-4 1/2"				
8C01	16	#8	25'-11"	31		5'-3"	1'-0 1/2"	19'-7 1/2"				0'-2 1/2"		1'-0"	25'-10 1/2"
8C04	4	#8	19'-7"	2	1'-4"	18'-3"									
9C01	16	#9	13'-4"	2	1'-7"	11'-9"									



FOR APPROVAL WAIVED

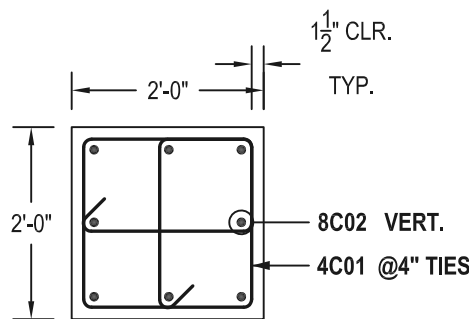
ALL BARS IN THIS DRAWING ASTM A615 GRADE 60 BLACK UNCOATED



SPECIAL BAR	
	A = 0'-4 1/2" B = 1'-6 3/4" C = 1'-9" D = 0'-11 1/2" E = 1'-3 3/4" F = 2'-3" G = 0'-4 1/2"
L91	BAR MARK = 4C01 @4" TIES
TOTAL LENGTH (B) = 13'-2"	
TOTAL LENGTH = A+C+D+C+C+B+E+D+C+G	

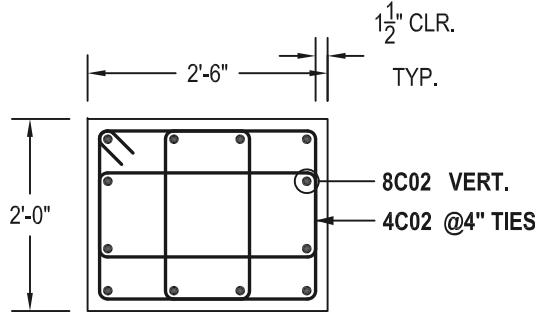
SPECIAL BAR	
	A = 0'-4 1/2" B = 1'-6 3/4" C = 1'-9" D = 0'-10 1/2" E = 1'-3 3/4" F = 2'-3" G = 0'-4 1/2"
L81	BAR MARK = 4C02 @4" TIES
TOTAL LENGTH (B) = 20'-3"	
TOTAL LENGTH = A+B+C+D+C+B+E+D+F+E+F+C+G	

COVER DETAILS	
REF: S4.01	
CLEAR COVER FOR COLUMN	
TIES	1 1/2" CLR. ALLROUND



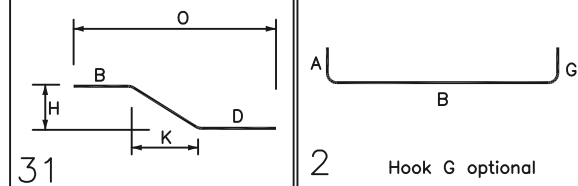
SECTION 1
SCALE - 1/2"=1'-0"
REF: 1/S4.01

LAP SCHEDULE	
REF: S4.02	
FOR COLUMN	
#8	4'-8"
#9	5'-3"
#10	5'-11"



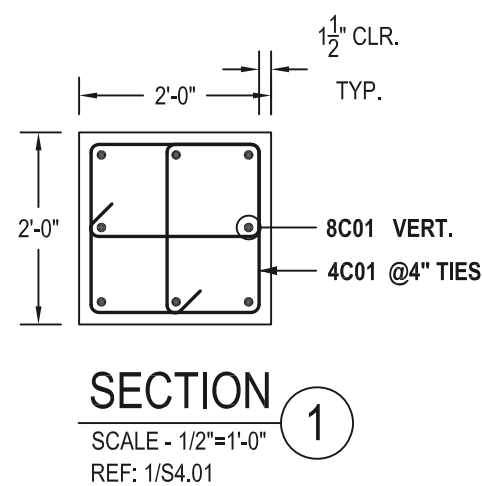
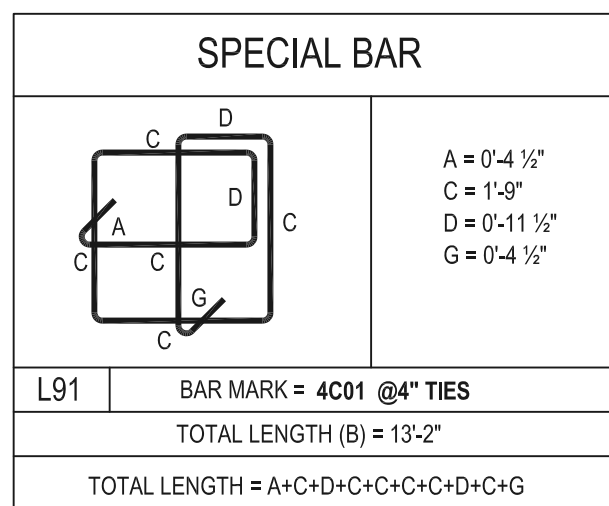
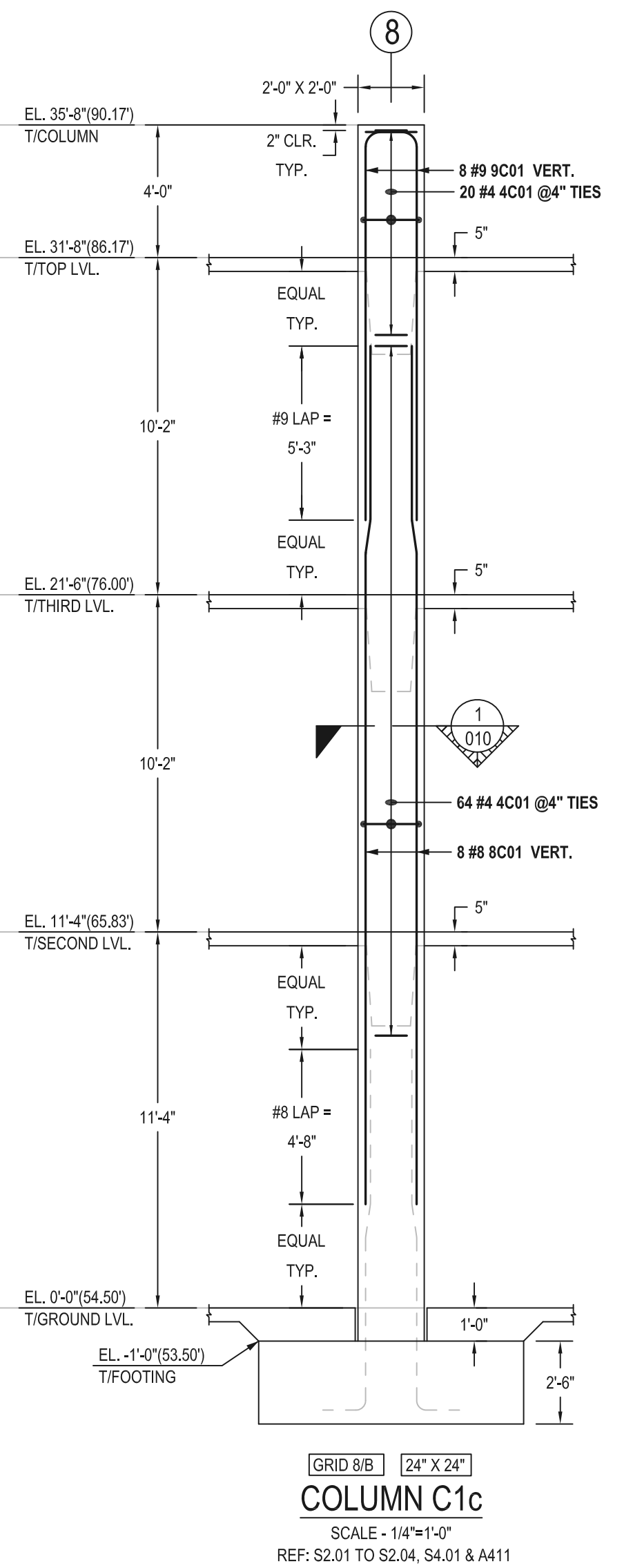
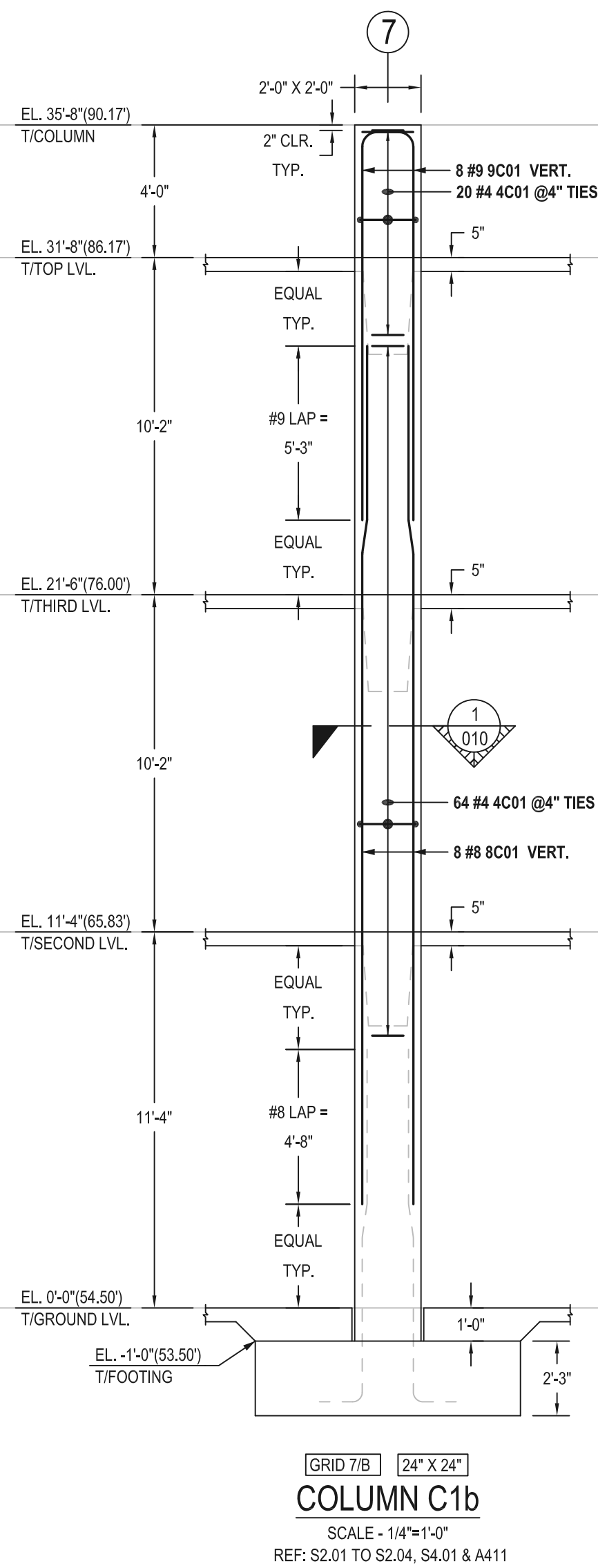
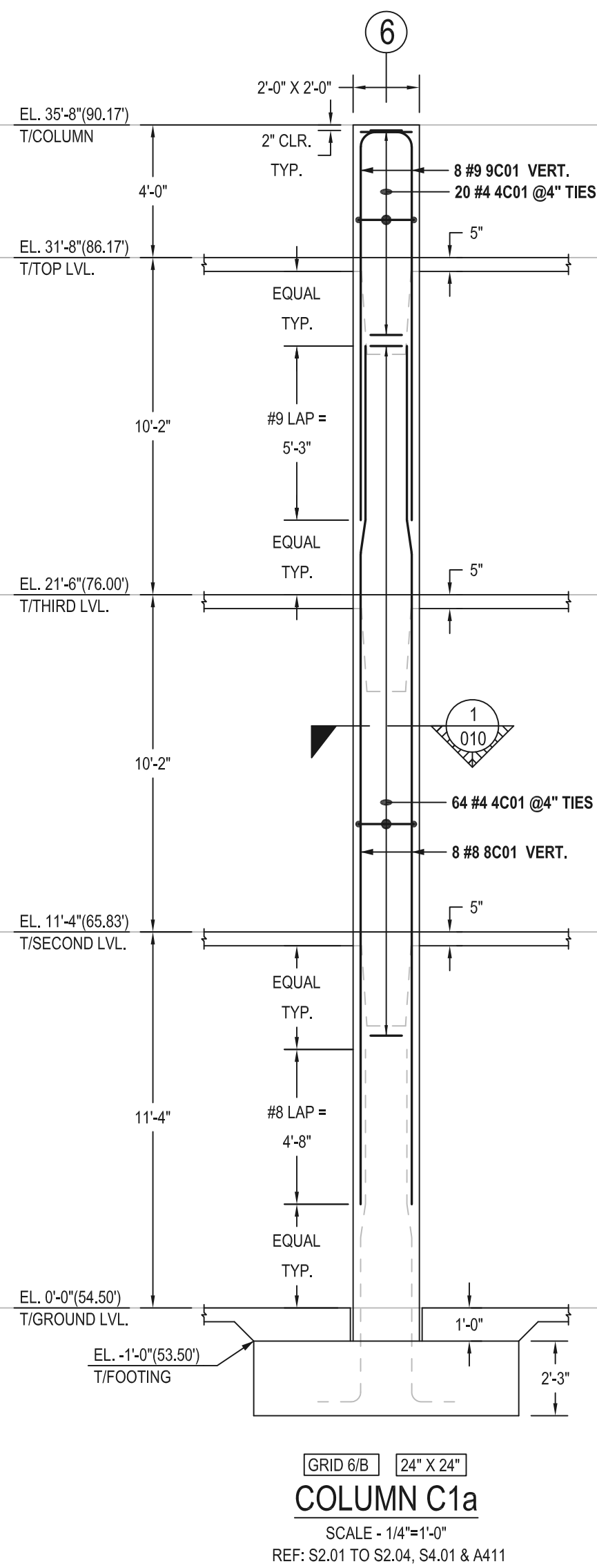
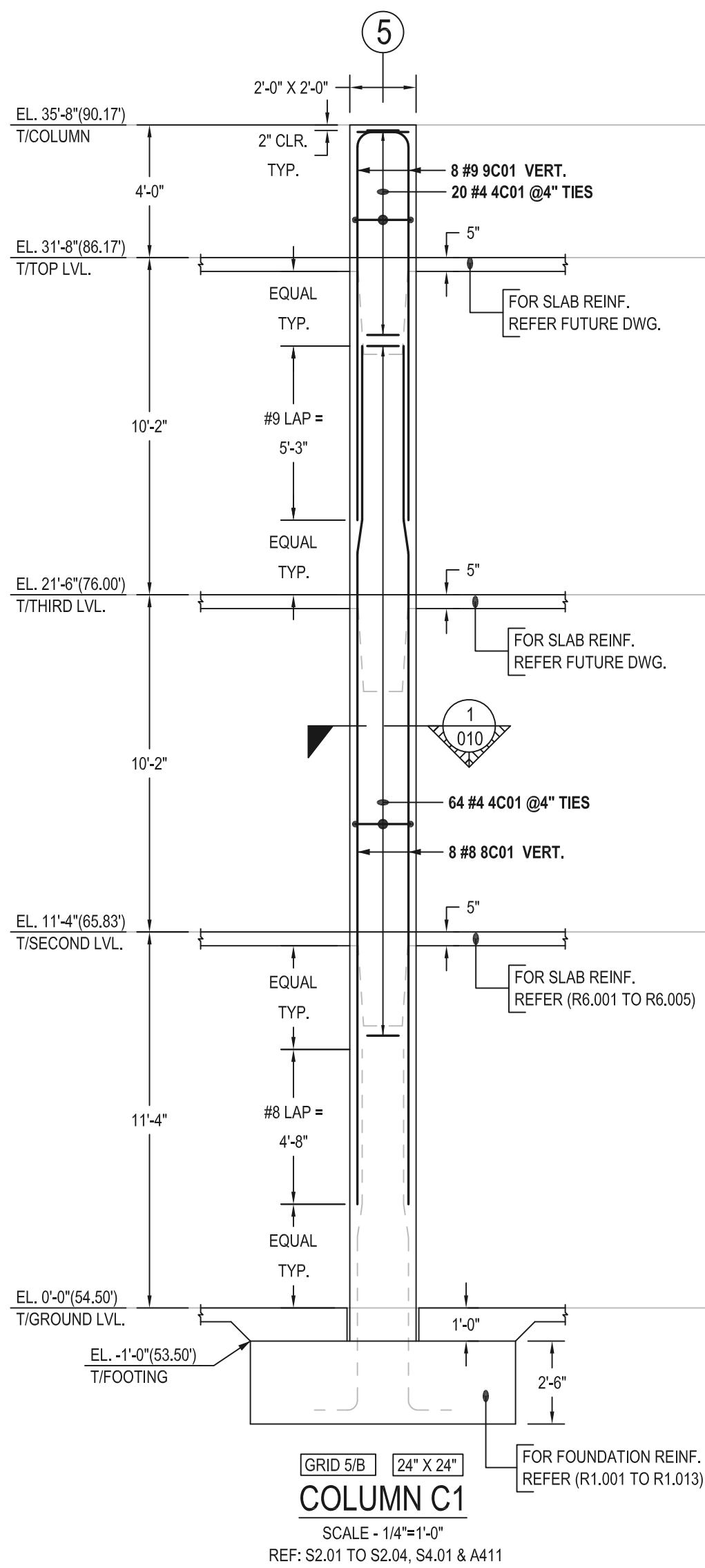
SECTION 2
SCALE - 1/2"=1'-0"
REF: 2/S4.01

Drawing Number: R3.009				BENDING SCHEDULE												
Bar Mark	Qty	Size	Total Length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'R'
4C01	84	#4	13'-2"	L91	0'-4 1/2"		1'-9"	0'-11 1/2"			0'-4 1/2"					
4C02	168	#4	20'-3"	L81	0'-4 1/2"	1'-6 3/4"	1'-9"	0'-10 1/2"	1'-3 3/4"	2'-3"	0'-4 1/2"					
8C01	8	#8	25'-11"	31		5'-3"	1'-0 1/2"	19'-7 1/2"				0'-2 1/2"		1'-0"	25'-10 1/2"	
8C02	24	#8	25'-7"	31		4'-8"	1'-0 1/2"	19'-11"				0'-2 1/2"		1'-0"	25'-7"	
8C03	24	#8	12'-10"	2	1'-4"	11'-6"										
9C01	8	#9	13'-4"	2	1'-7"	11'-9"										



FOR APPROVAL WAIVED

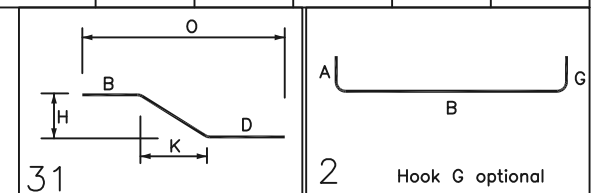
ALL BARS IN THIS DRAWING ASTM A615 GRADE 60 BLACK UNCOATED



COVER DETAILS	
REF: S4.01	
CLEAR COVER FOR COLUMN	
TIES	1 1/2" CLR. ALLROUND

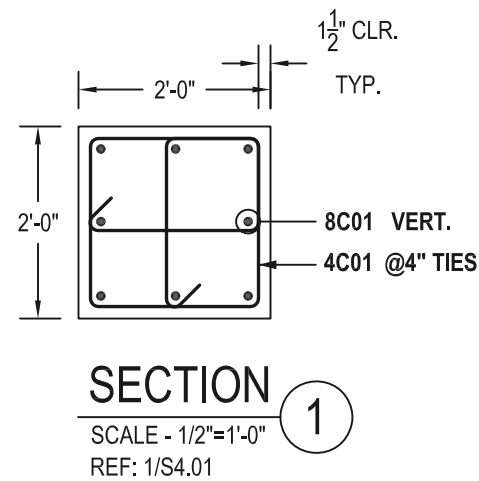
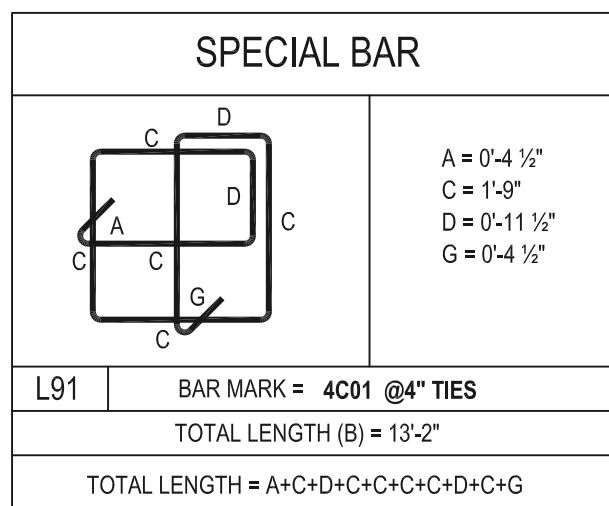
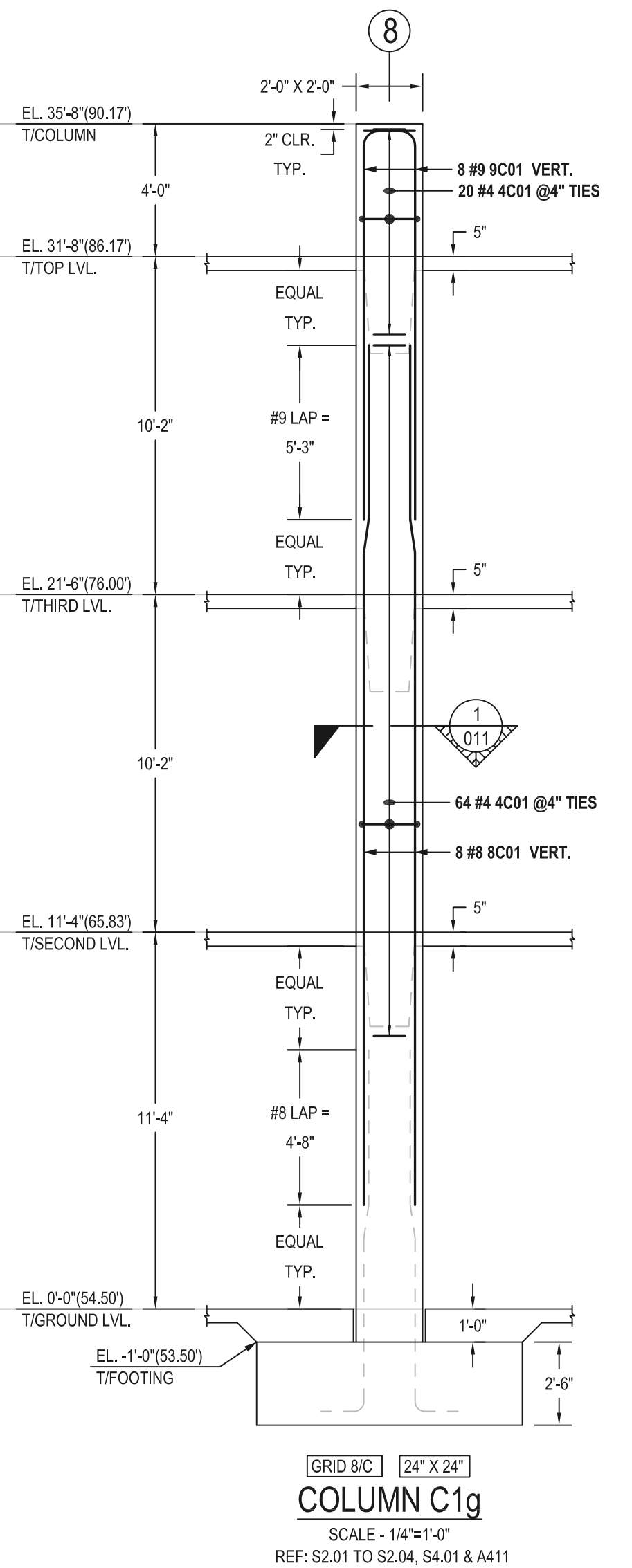
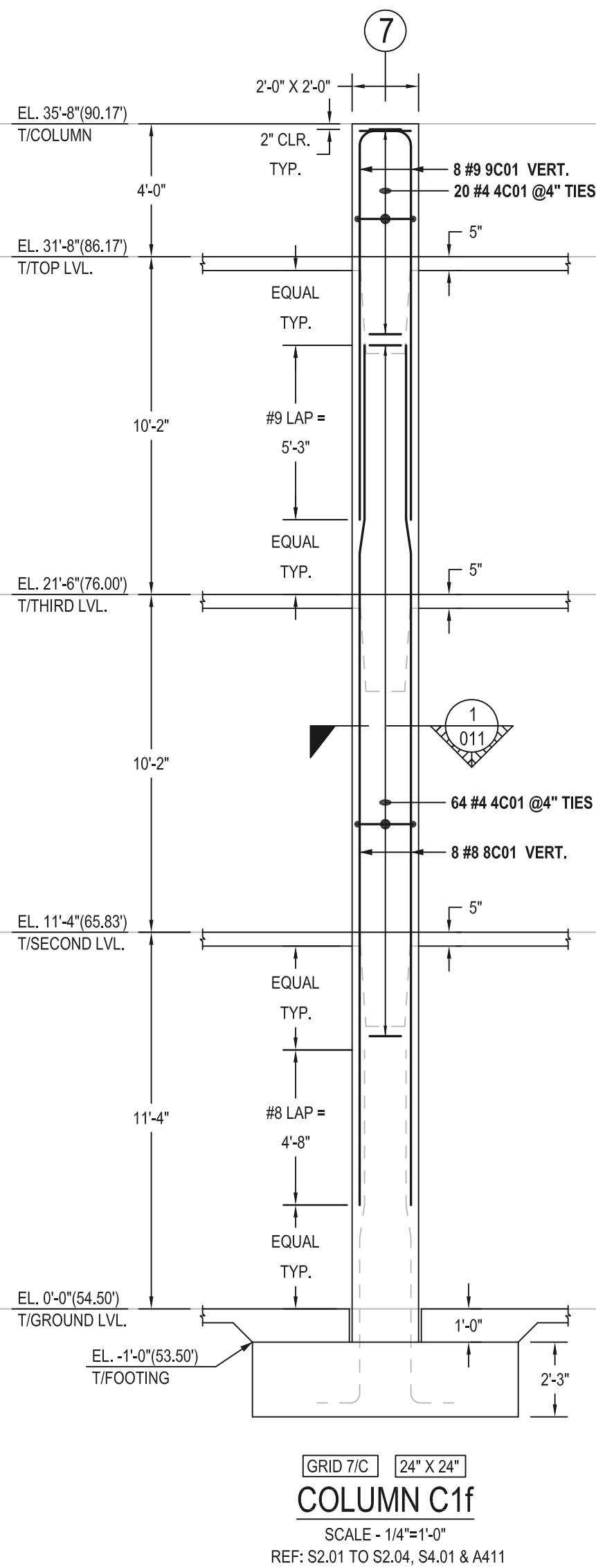
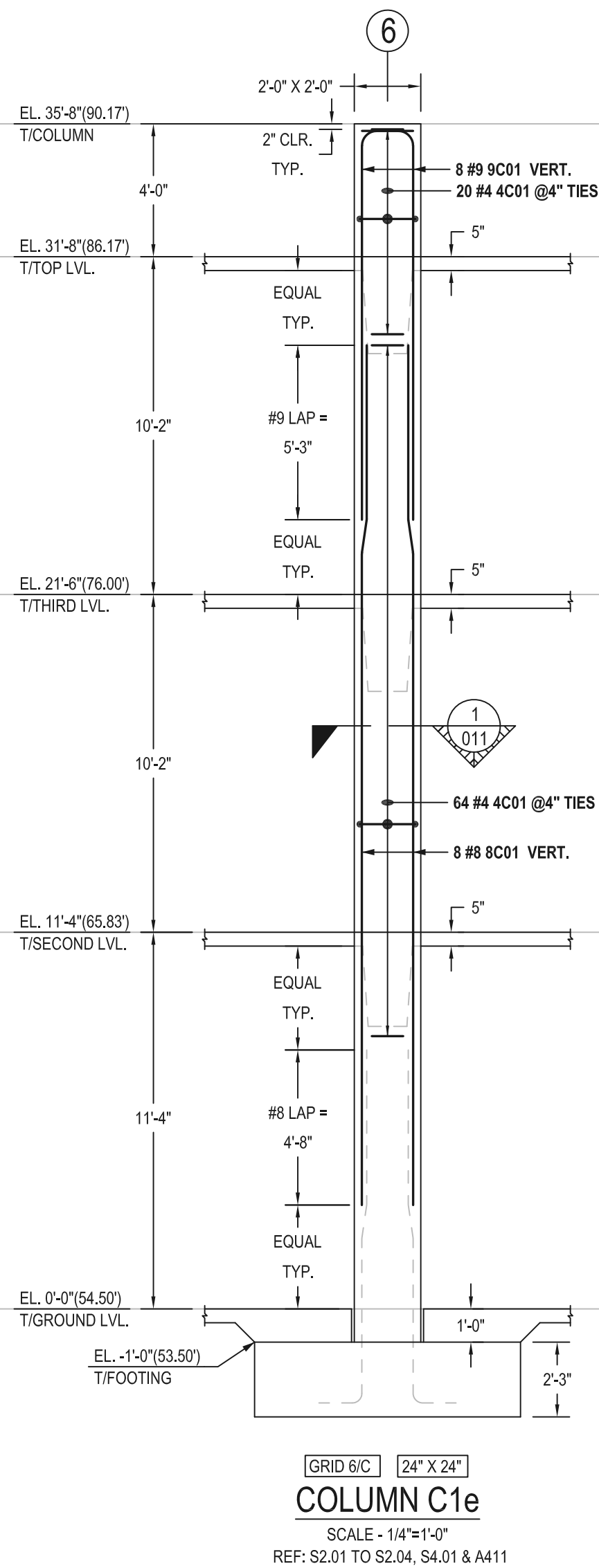
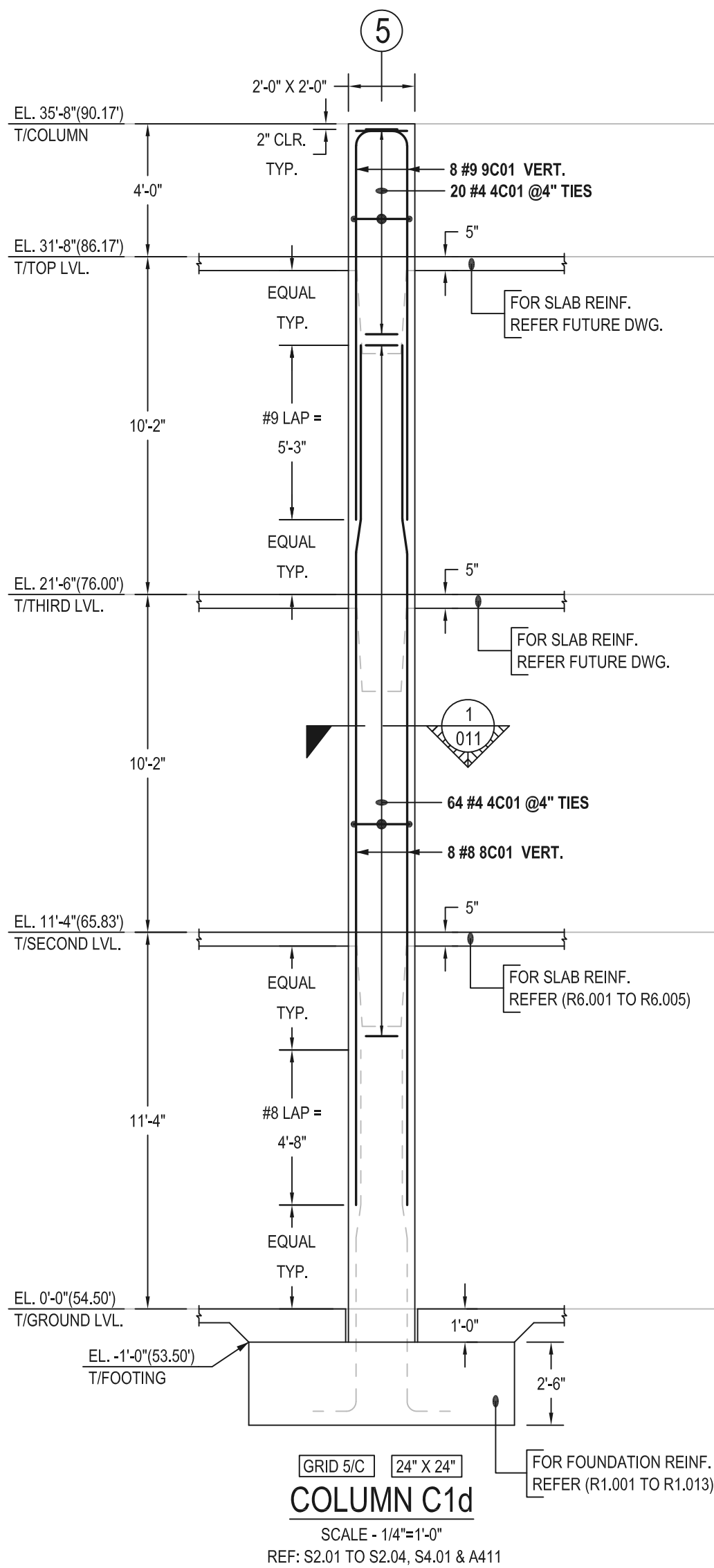
LAP SCHEDULE	
REF: S4.02	
FOR COLUMN	
#8	4'-8"
#9	5'-3"
#10	5'-11"

Drawing Number: R3.010				BENDING SCHEDULE												
Bar Mark	Qty	Size	Total Length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'R'
4C01	336	#4	13'-2"	L91	0'-4 1/2"		1'-9"	0'-11 1/2"			0'-4 1/2"					
8C01	32	#8	25'-11"	31		5'-3"	1'-0 1/2"	19'-7 1/2"				0'-2 1/2"		1'-0"	25'-10 1/2"	
9C01	32	#9	13'-4"	2	1'-7"	11'-9"										



FOR APPROVAL WAIVED

ALL BARS IN THIS DRAWING ASTM A615 GRADE 60 BLACK UNCOATED



COVER DETAILS	
REF: S4.01	
CLEAR COVER FOR COLUMN	
TIES	1 1/2" CLR. ALLROUND

LAP SCHEDULE	
REF: S4.02	
FOR COLUMN	
#8	4'-8"
#9	5'-3"
#10	5'-11"

Drawing Number: R3.011				BENDING SCHEDULE												
Bar Mark	Qty	Size	Total Length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'R'
4C01	336	#4	13'-2"	L91	0'-4 1/2"		1'-9"	0'-11 1/2"			0'-4 1/2"					
8C01	32	#8	25'-11"	31		5'-3"	1'-0 1/2"	19'-7 1/2"				0'-2 1/2"		1'-0"	25'-10 1/2"	
9C01	32	#9	13'-4"	2	1'-7"	11'-9"										

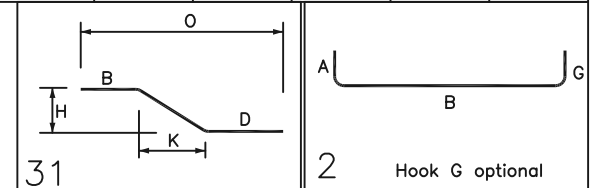
Diagram of a bent bar with dimensions O, H, K, and labels B, D.

Diagram of a straight bar with dimensions A, B, and labels G.

31

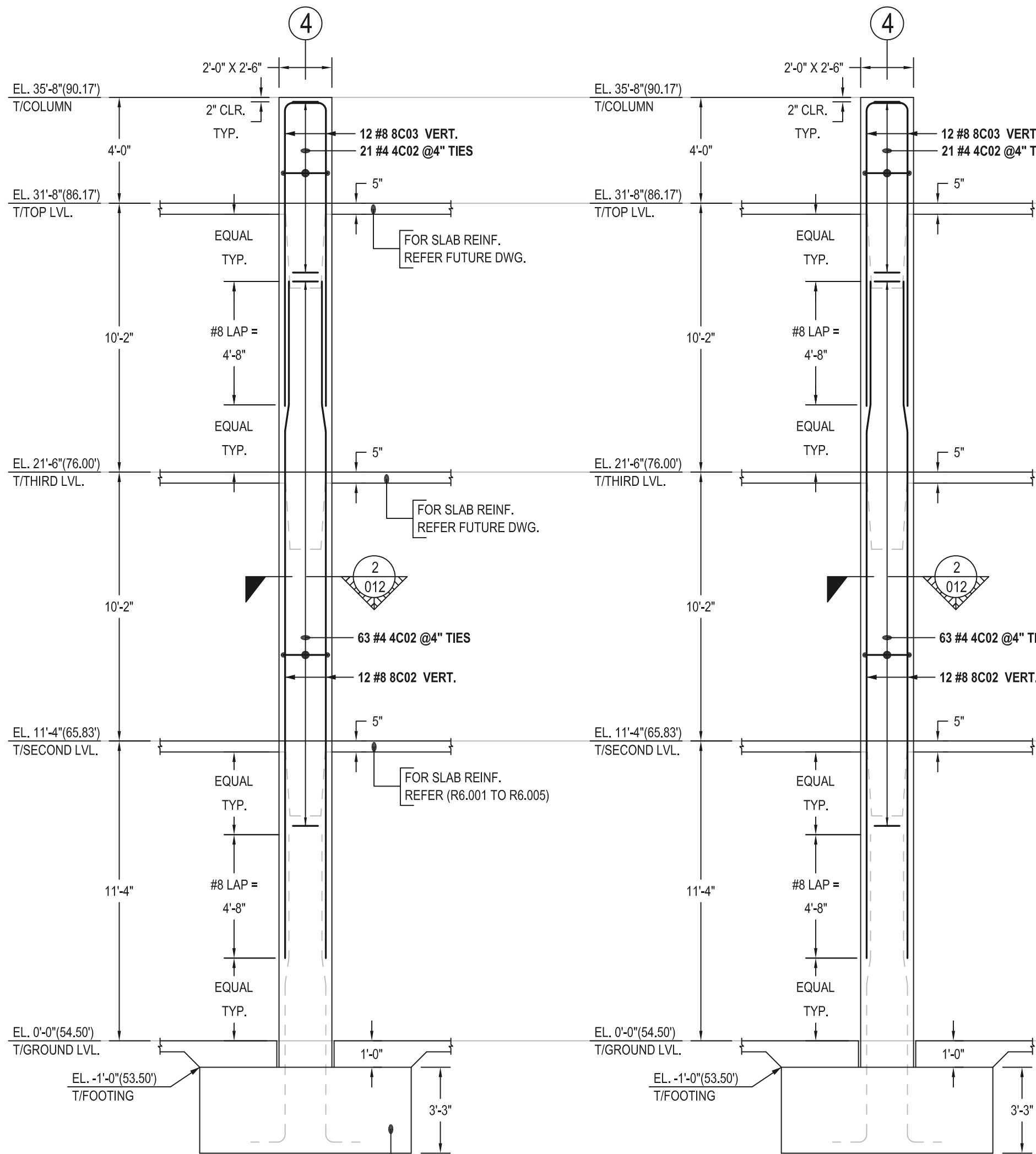
2

Hook G optional

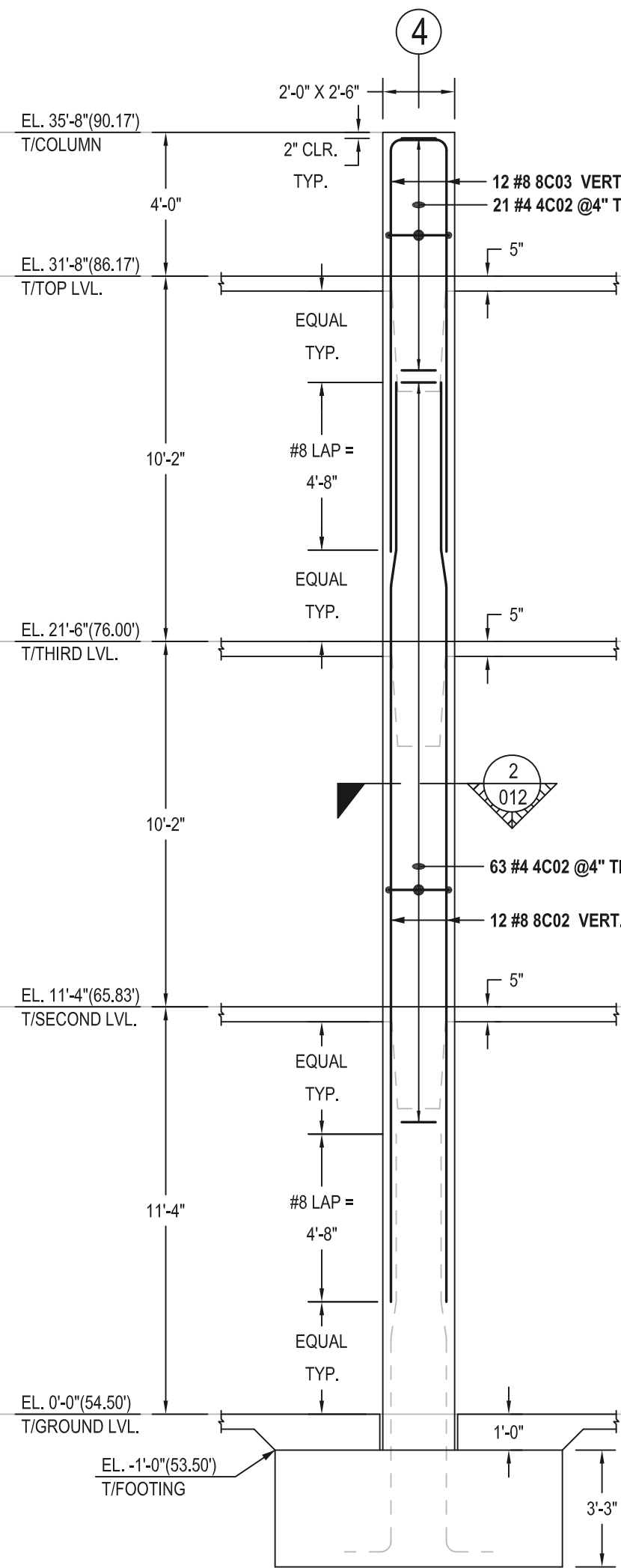


FOR APPROVAL WAIVED

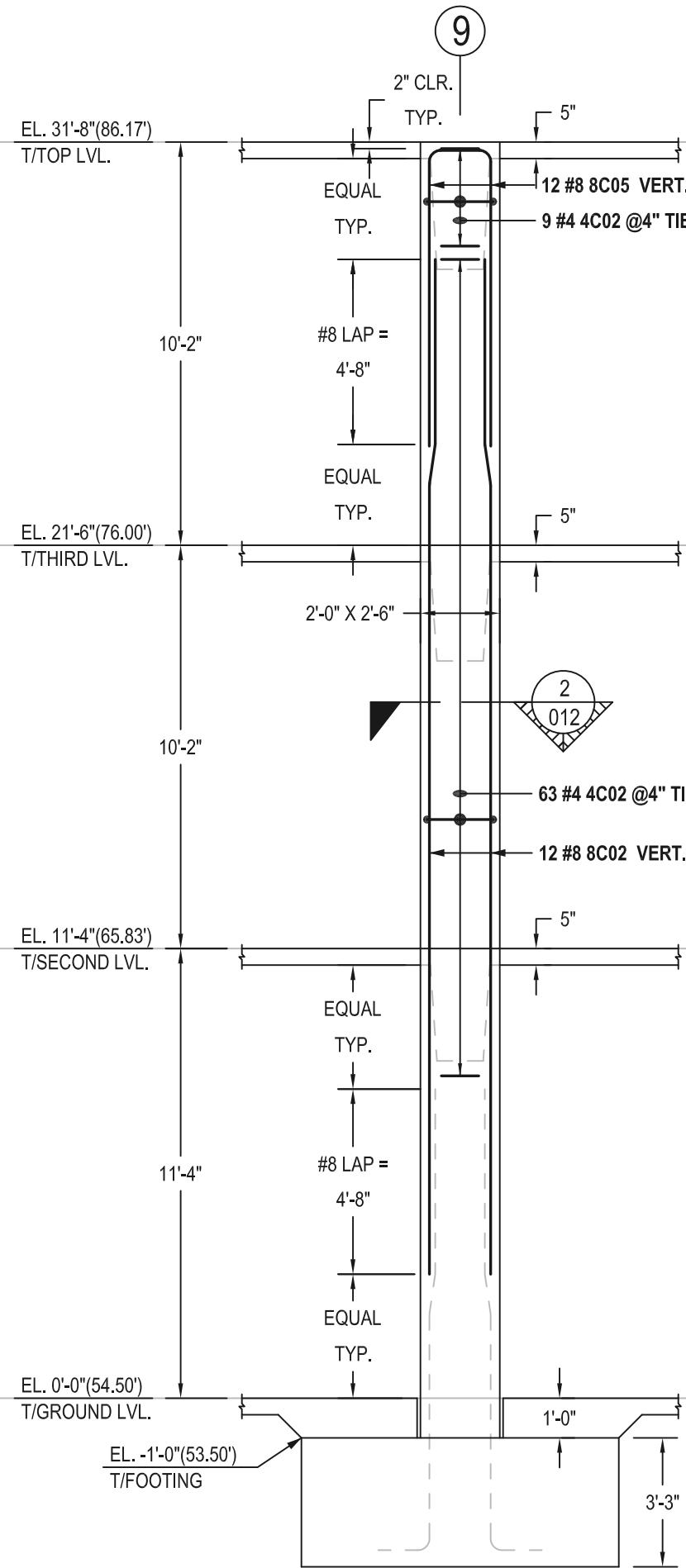
ALL BARS IN THIS DRAWING ASTM A615 GRADE 60 BLACK UNCOATED



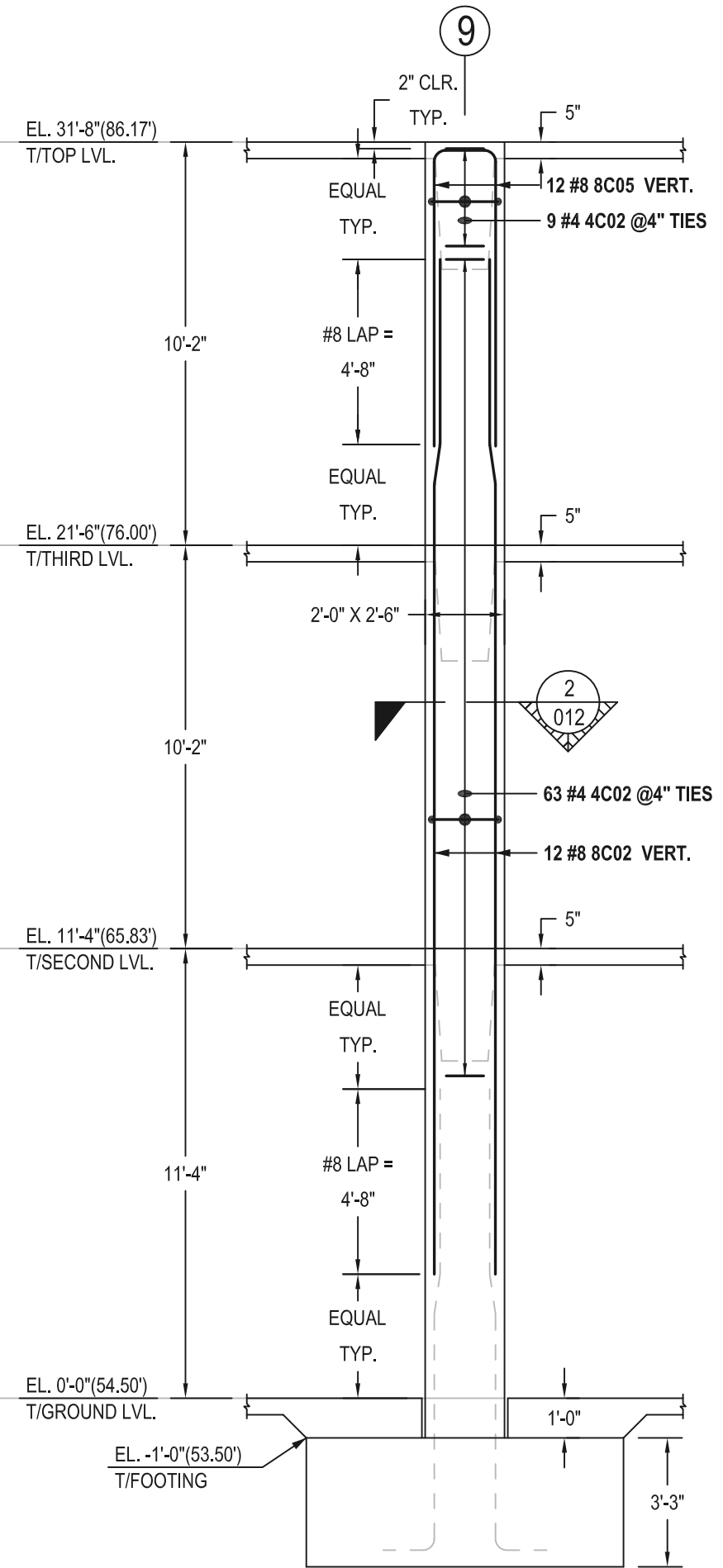
GRID 4/B 24" X 30"
COLUMN C2
SCALE - 1/4"=1'-0"
REF: S2.01 TO S2.04, S4.01 & A411



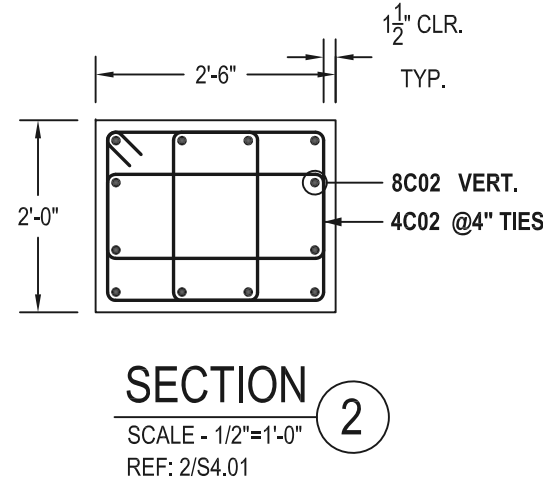
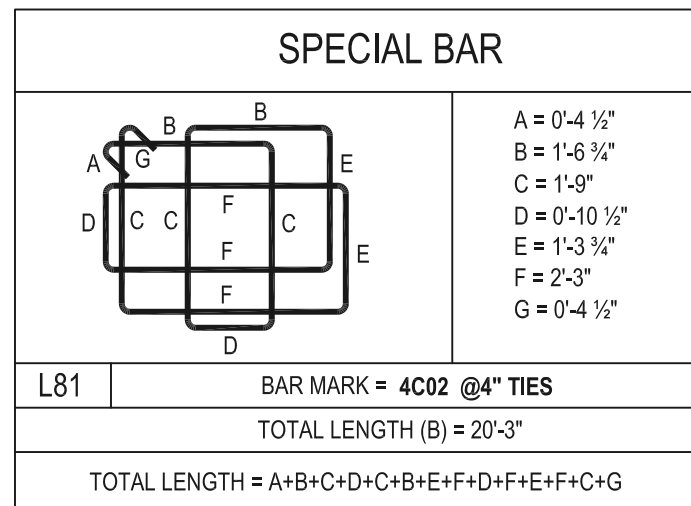
GRID 4/C 24" X 30"
COLUMN C2a
SCALE - 1/4"=1'-0"
REF: S2.01 TO S2.04, S4.01 & A411



GRID 9/B 24" X 30"
COLUMN C6
SCALE - 1/4"=1'-0"
REF: S2.01 TO S2.04, S4.01 & A411



GRID 9/C 24" X 30"
COLUMN C6a
SCALE - 1/4"=1'-0"
REF: S2.01 TO S2.04, S4.01 & A411



COVER DETAILS	
REF: S4.01	
CLEAR COVER FOR COLUMN	
TIES	1 1/2" CLR. ALLROUND

LAP SCHEDULE	
REF: S4.02	
FOR COLUMN	
#8	4'-8"
#9	5'-3"
#10	5'-11"

Drawing Number: R3.012				BENDING SCHEDULE												
Bar Mark	Qty	Size	Total Length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'R'
4C02	312	#4	20'-3"	L81	0'-4 1/2"	1'-6 3/4"	1'-9"	0'-10 1/2"	1'-3 3/4"	2'-3"	0'-4 1/2"					
8C02	48	#8	25'-7"	31		4'-8"	1'-0 1/2"	19'-11"				0'-2 1/2"		1'-0"	25'-7"	
8C03	24	#8	12'-10"	2	1'-4"	11'-6"										
8C05	24	#8	8'-10"	2	1'-4"	7'-6"										

31

2 Hook G optional

FOR APPROVAL WAIVED

ALL BARS IN THIS DRAWING ASTM A615 GRADE 60 BLACK UNCOATED