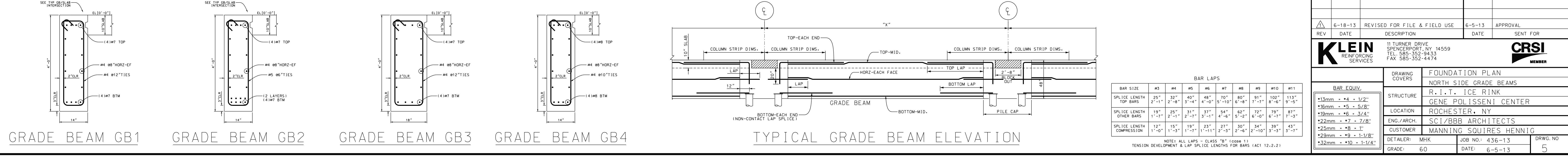
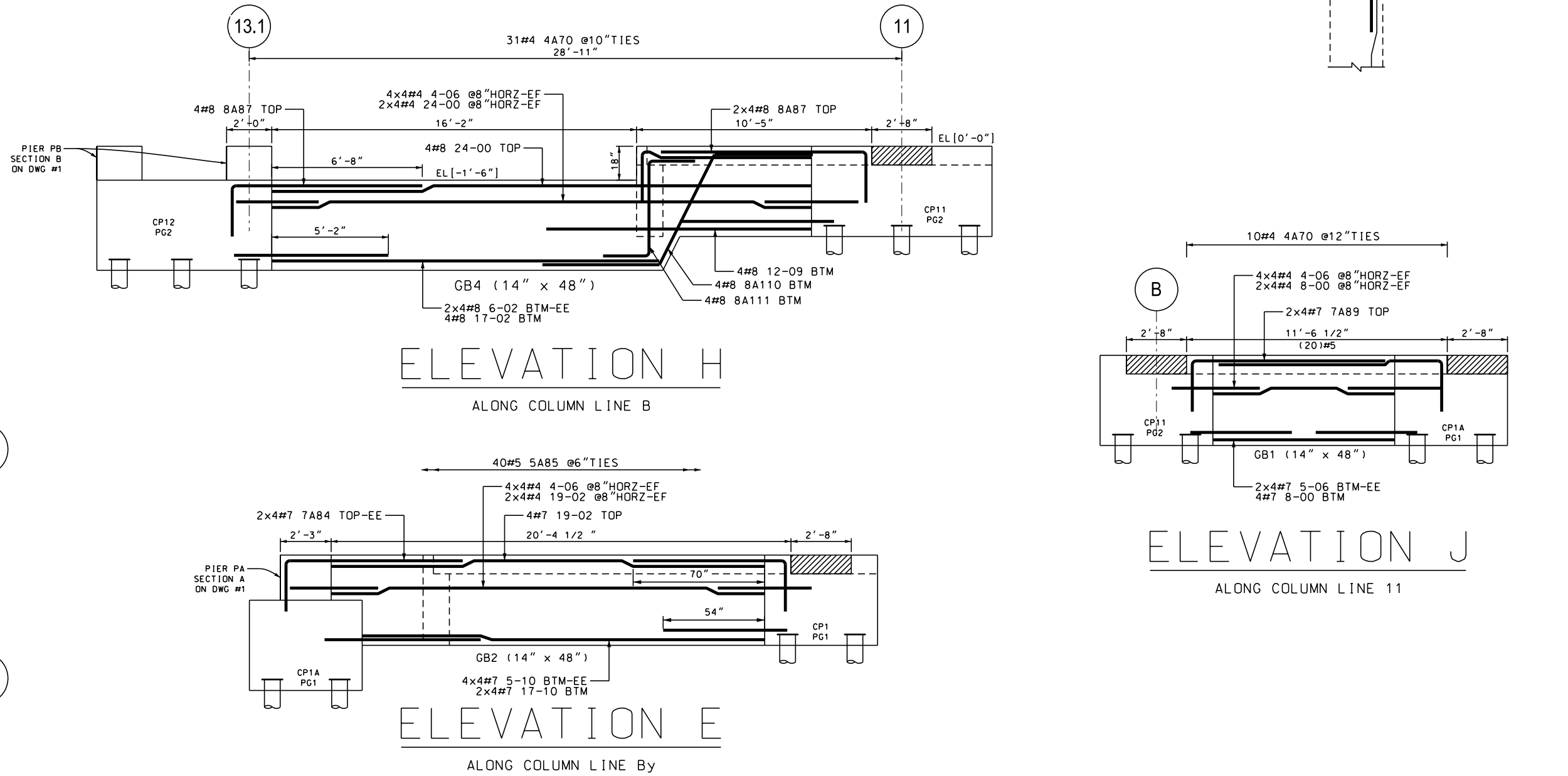
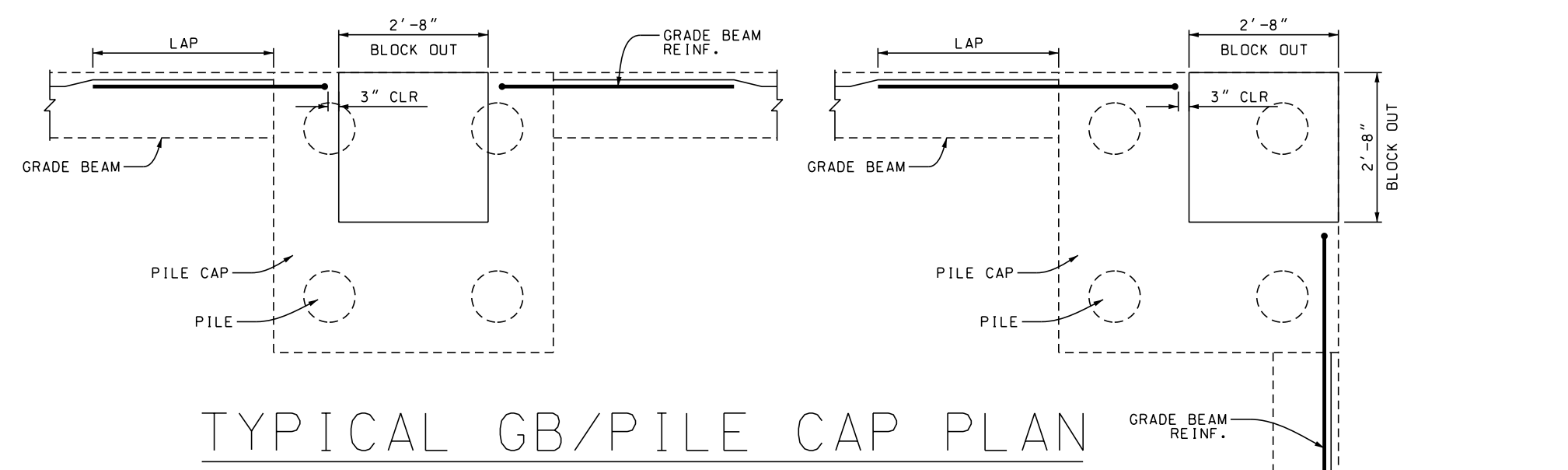
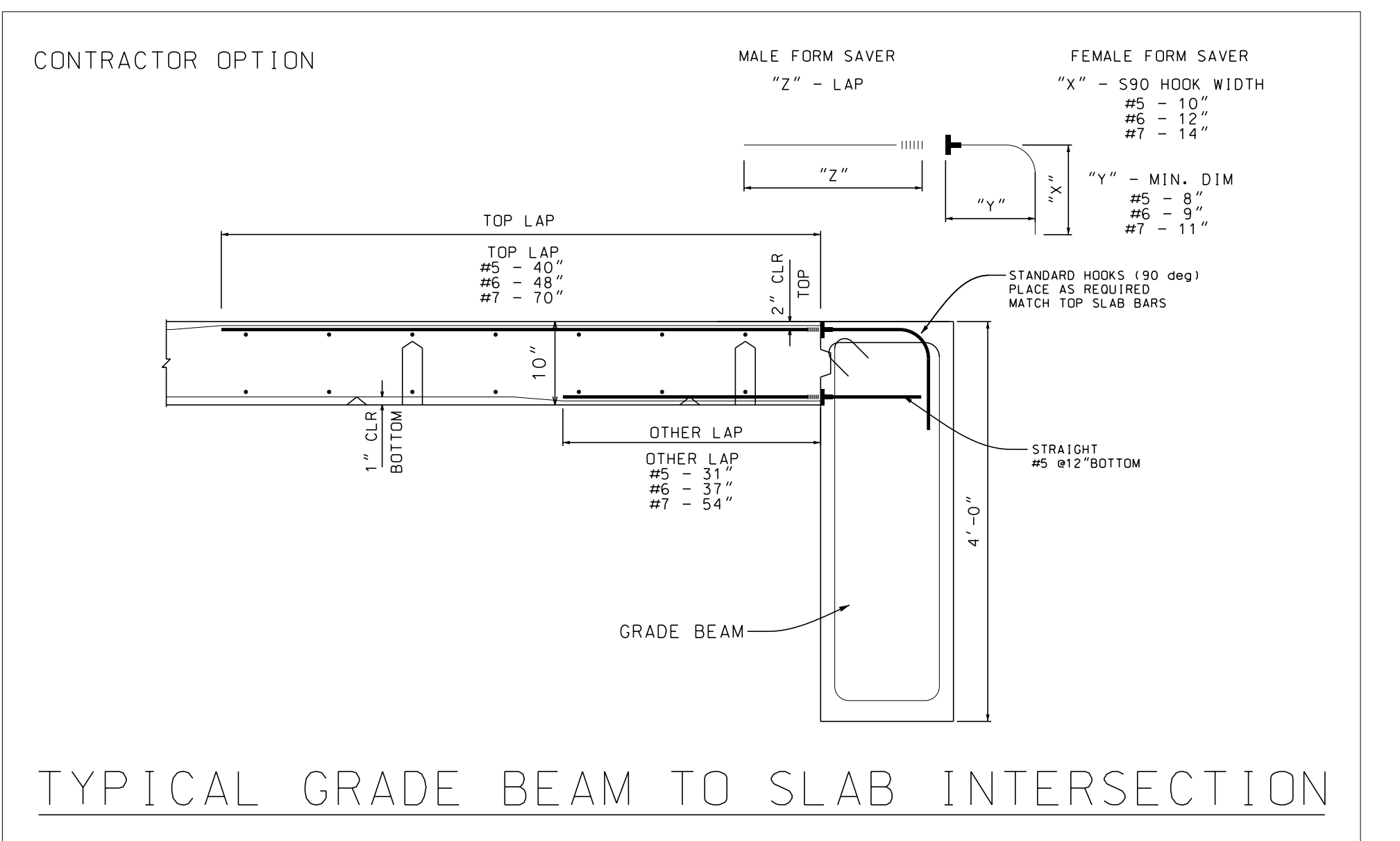
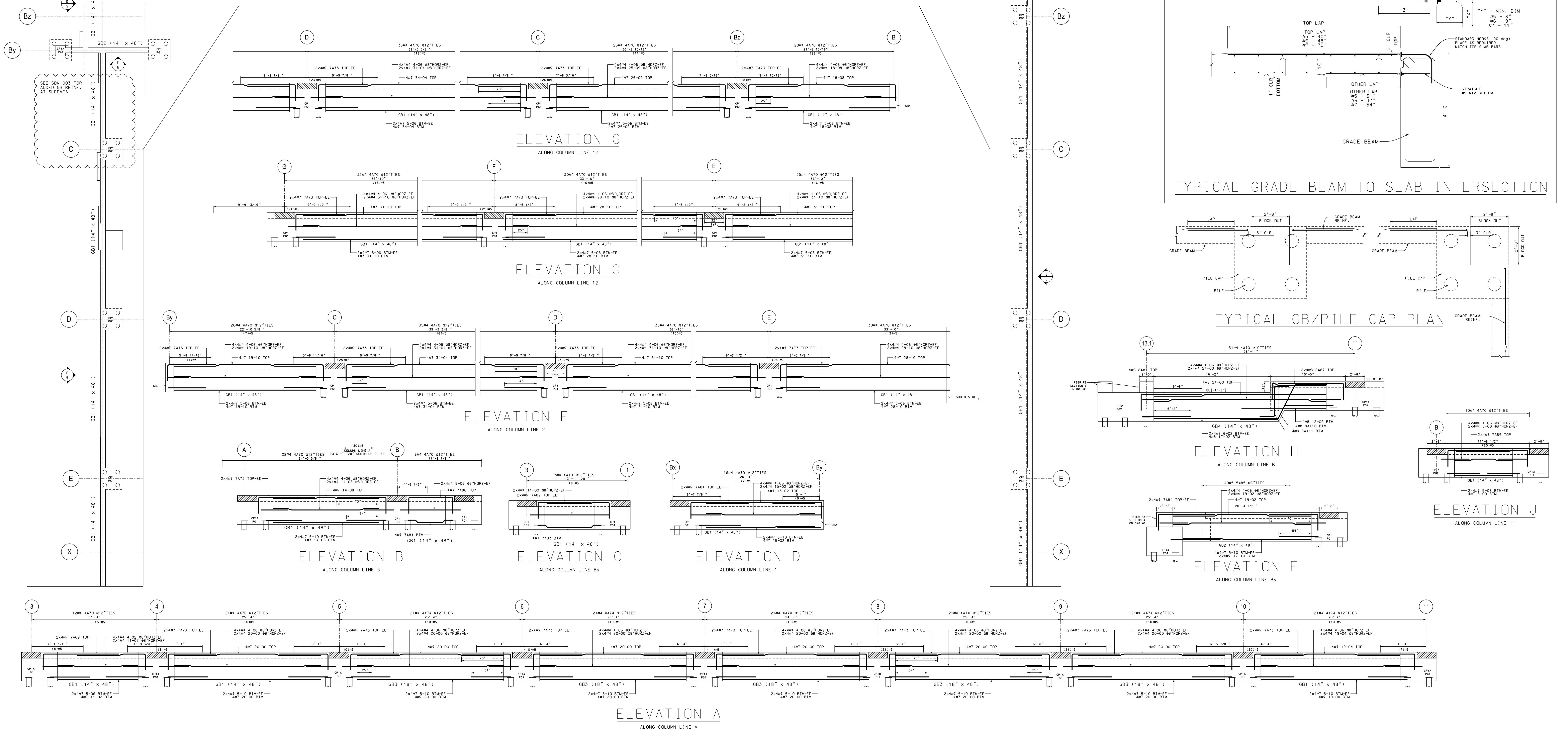


QTY	SIZE	THEO. LENGTH	BAR MARK	W	D	A	B	C	D	E	F	G	H	J	K	D
12	10-08	8847	17			2-04	8-04									
4	12-08	8488	17			3-02	2-04	5-02						1-08	1-08	
8	12-08	7469	17			2-04	10-06									
4	7-04	7473	17			2-04	7-00									
4	7-04	7478	17			2-04	1-08	2-04						0-06	0-06	
4	7-04	7479	17			1-02	0-02	1-04						0-06	0-06	
4	7-04	7480	17			2-04	6-00	2-04								
4	7-01	7481	3			1-02	0-02	3-04	0-02	1-02				0-06	0-06	
8	7-04	7482	17			2-04	10-00									
4	7-09	7483	3			1-02	0-02	4-00	0-02	1-02				0-06	0-06	
16	7-04	7484	17			2-04	8-00									
8	7-04	7485	17			2-04	8-00									
40	5-08	5485	11			0-02	0-10	3-02	0-10	3-02				0-02	0-02	
423	4-08	4470	11			0-04	0-10	3-02	0-10	3-02				0-04	0-04	
126	4-10-02	4474	11			0-04	1-02	3-02	1-02	3-02				0-04	0-04	

FOUNDATION PLAN NORTH SIDE GRADE BEAMS



REV	DATE	DESCRIPTION	APPROVAL
6-18-13	REVISED FOR FILE & FIELD USE	6-5-13	APPROVAL
KLEIN REINFORCING SERVICES		11 TURNER DRIVE SPENCERPORT, NY 14559 TEL 585-352-9433 FAX 585-352-4474	
CRSI MEMBER		DRAWING COVERS FOUNDATION PLAN NORTH SIDE GRADE BEAMS R.I.T. ICE RINK GENE POLISSEN CENTER ROCHESTER, NY ENC./ARCH. SCI/BBB ARCHITECTS CUSTOMER MANNING SQUIRES HENNING DETAILER MGH DATE: 6-5-13	

BAR SIZES		BAR LAPS	
BAR SIZE	#3 #4 #5 #6 #7 #8 #9 #10 #11	SPICE LENGTH	25'-32' 40'-48' 70'-80' 91' 102' 113'
SPICE LENGTH	2'-11" 2'-8" 3'-4" 4'-0" 5'-10" 6'-0" 7'-2" 8'-5" 9'-5"	OTHER BARS	19'-25' 31'-37' 54'-62' 72'-79' 87'-97'
SPICE LENGTH	12'-15' 18'-23' 27'-30' 34'-39' 43'-47'	COMPRESSION	1'-10" 1'-3" 1'-7" 1'-11" 2'-3" 2'-6" 2'-10" 3'-3" 3'-7"

NOTE: ALL LAPS - CLASS "B" 16000 PSI
TENSION DEVELOPMENT & LAP SPLICE LENGTHS FOR BARS (ACI 12.2.2)