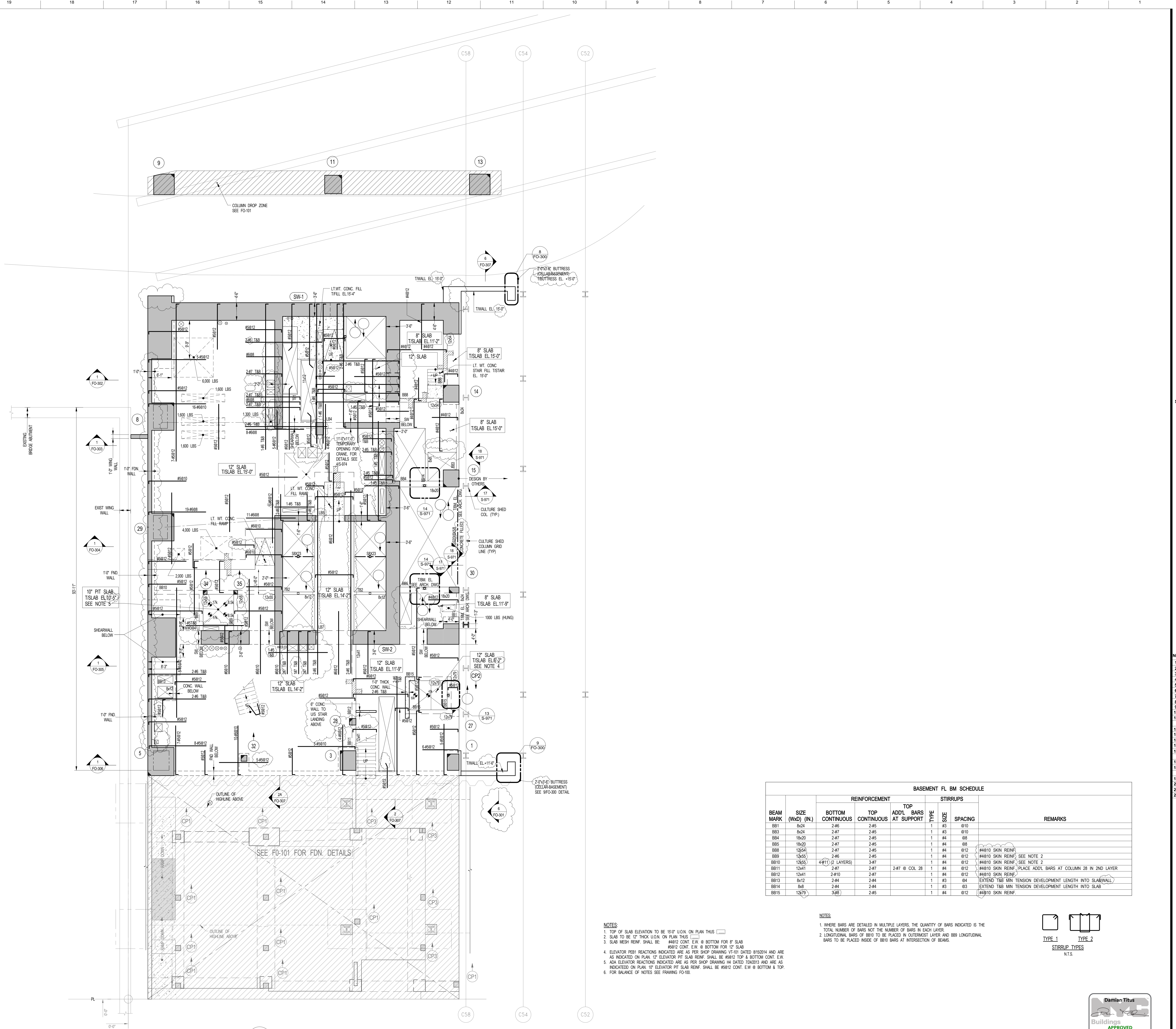


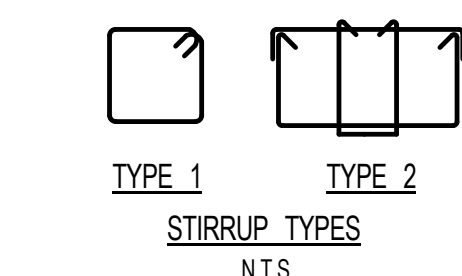
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1	REVISED SD ISSUE	4.08.21-13
2	FINAL SD ISSUE	6.11.25-13
3	PROGRESS SET	6.03.07-14
4	FOUNDATION BID SET	7.06.02-14
5	FOUNDATION BID SET	8.07.11-14
6	REVISED AS NOTED	9.07.31-14
7	REVISED SD	10.08.22-14
8	REVISED AS NOTED	11.09.29-14
9	NYCT SUBMISSION	12.10.15-14
10	REVISED AS NOTED	12.10.15-14
11	SUPERSTRUCTURE EARLY BID SET	14.11.12-14
12	NYCT SUBMISSION	15.11.18-14
13	DOE SUBMISSION	16.12.08-14
14	DESIGN DEVELOPMENT SET	17.12.22-14
15	NYCT SUBMISSION	18.12.23-14
16	UPDATED DOOR SET	19.01.20-15
17	NYCT SUBMISSION	20.01.22-15
18	70% CD	21.04.27-15
19	85% CD	22.07.02-15
20	90% PARTIAL CD ISSUE - FLOORS	23.09.03-15
21	SC-12	24.11.24-15
22	PAA #2	25.01.28-16



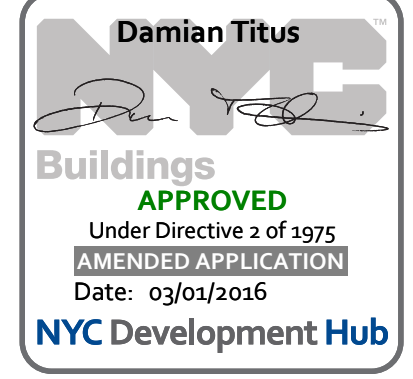
BEAM MARK	SIZE (WxD) (IN)	REINFORCEMENT			STIRRUPS		REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TOP ADD'L BARS AT SUPPORT	TYPE	SPACING	
B81	8x24	2#6	2#5		1	#3 @10	
B83	8x24	2#7	2#5		1	#3 @10	
B84	18x20	2#7	2#5		1	#4 @8	
B85	18x20	2#7	2#5		1	#4 @8	
B88	12x24	2#7	2#5		1	#4 @12	#4@10 SKIN REIN.
B89	10x25	2#5	2#5		1	#4 @12	#4@10 SKIN REIN. SEE NOTE 2
B90	12x25	4#11 (2 LAYERS)	3#7		1	#4 @12	#4@10 SKIN REIN. SEE NOTE 2
B811	12x41	2#7	2#7	2#7 @ COL 28	1	#4 @12	#4@10 SKIN REIN. PLACE ADD'L BARS AT COLUMN 28 IN 2ND LAYER
B812	12x41	2#10	2#7		1	#4 @12	#4@10 SKIN REIN.
B813	8x12	2#4	2#4		1	#3 @4	EXTEND TAB MIN TENSION DEVELOPMENT LENGTH INTO SLAB/WALL
B814	8x8	2#4	2#4		1	#3 @3	EXTEND TAB MIN TENSION DEVELOPMENT LENGTH INTO SLAB
B815	12x79	3#8	2#5		1	#4 @12	#4@10 SKIN REIN.

- NOTES:
- TOP OF SLAB ELEVATION TO BE 15'-0" U.O.N. ON PLAN THIS []
 - SLAB TO BE 12" THICK U.O.N. ON PLAN THIS []
 - SLAB MESH REIN. SHALL BE #8@12 CONT. E.W. @ BOTTOM FOR 8" SLAB
 - ELEVATOR REIN. REACTIONS INDICATED ARE AS PER SHOP DRAWING (V1-01) DATED 8/15/2014 AND ARE AS INDICATED ON PLAN. 12" ELEVATOR PIT SLAB REIN. SHALL BE #8@12 TOP & BOTTOM CONT. E.W.
 - ALL ELEVATOR REACTIONS INDICATED ARE AS PER SHOP DRAWING (V1-01) DATED 8/15/2014 AND ARE AS INDICATED ON PLAN. 12" ELEVATOR PIT SLAB REIN. SHALL BE #8@12 CONT. E.W. @ BOTTOM & TOP.
 - FOR BALANCE OF NOTES SEE FRAMING F0-101.

- NOTES:
- WHERE BARS ARE DETAILED IN MULTIPLE LAYERS, THE QUANTITY OF BARS INDICATED IS THE TOTAL NUMBER OF BARS NOT THE NUMBER OF BARS IN EACH LAYER.
 - LONGITUDINAL BARS OF B810 TO BE PLACED IN OUTERMOST LAYER AND B88 LONGITUDINAL BARS TO BE PLACED INSIDE OF B810 BARS AT INTERSECTION OF BEAMS.



1 BASEMENT FRAMING PLAN
SCALE: 1/8" = 1'-0"



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SHEET NOTES:

1. TOP OF SLAB ELEVATION SEE PLAN.
2. SLAB TO BE 12" THICK UNLESS OTHERWISE NOTED.
3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

KEY PLAN



NO	ISSUE SET	REV DATE
1	70% CD	1 04-27-15
2	80% CD	2 07-02-15
3	80% PARTIAL CD ISSUE - FLOORS	3 09-03-15
4	90% CD	4 11-24-15
5	95% CD	5 01-26-16
6	PAA #2	
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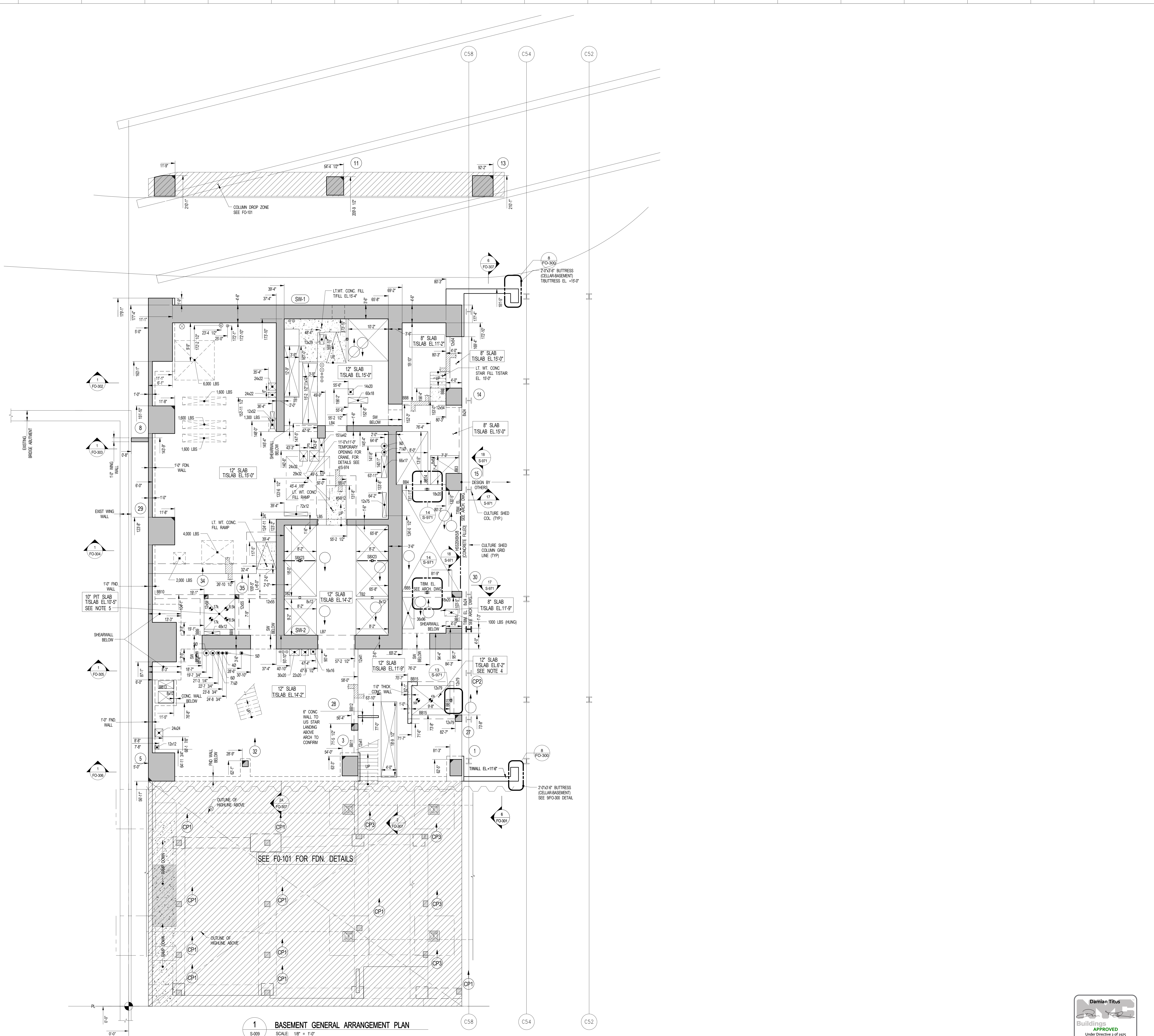
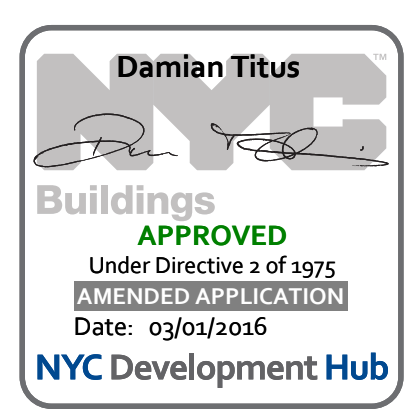
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DRAWING SCALE:
1/8" = 1'-0"

PROJECT NUMBER:

TITLE:
BASEMENT GENERAL ARRANGEMENT PLAN

DRAWING NO.:
S-009.00



1 BASEMENT GENERAL ARRANGEMENT PLAN
SCALE: 1/8" = 1'-0"

- NOTES:**
- TOP OF SLAB ELEVATION SEE PLAN.
 - SLAB TO BE 12" THICK UNLESS OTHERWISE NOTED.
 - FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

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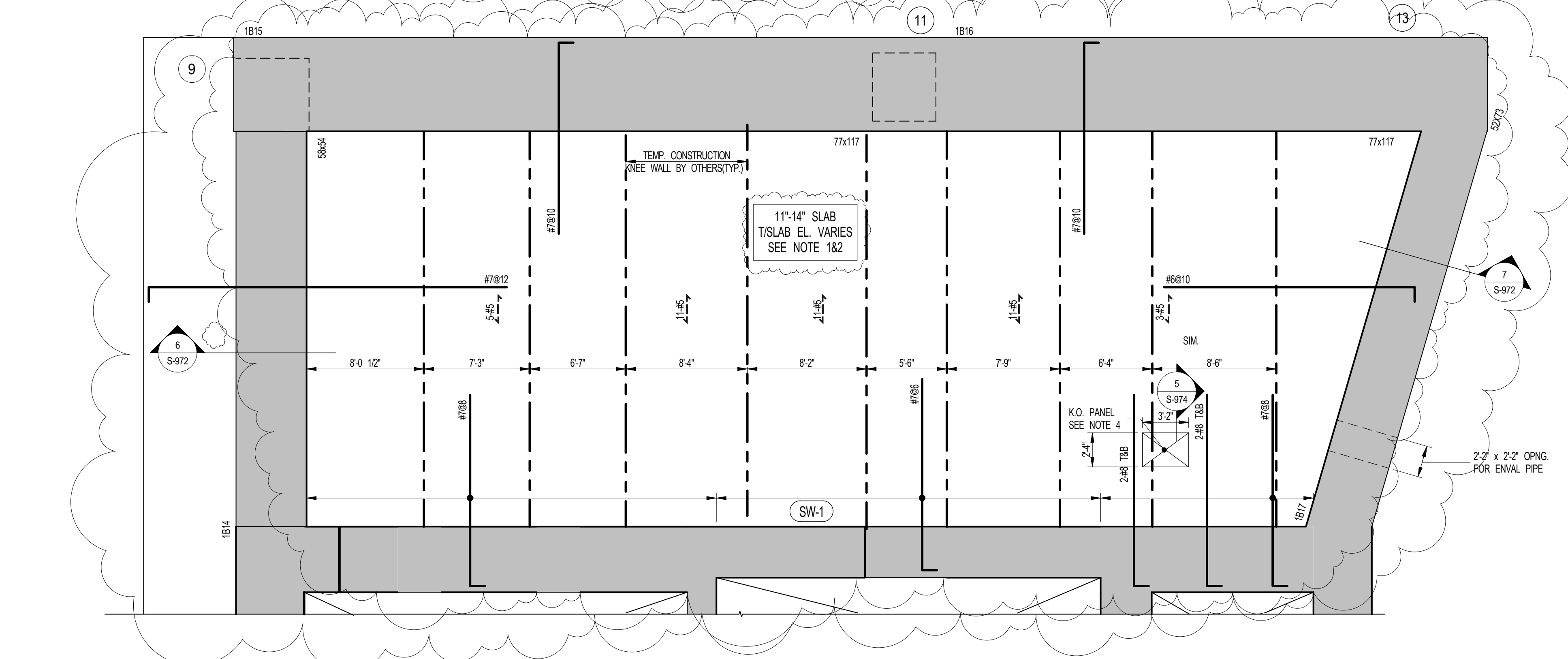
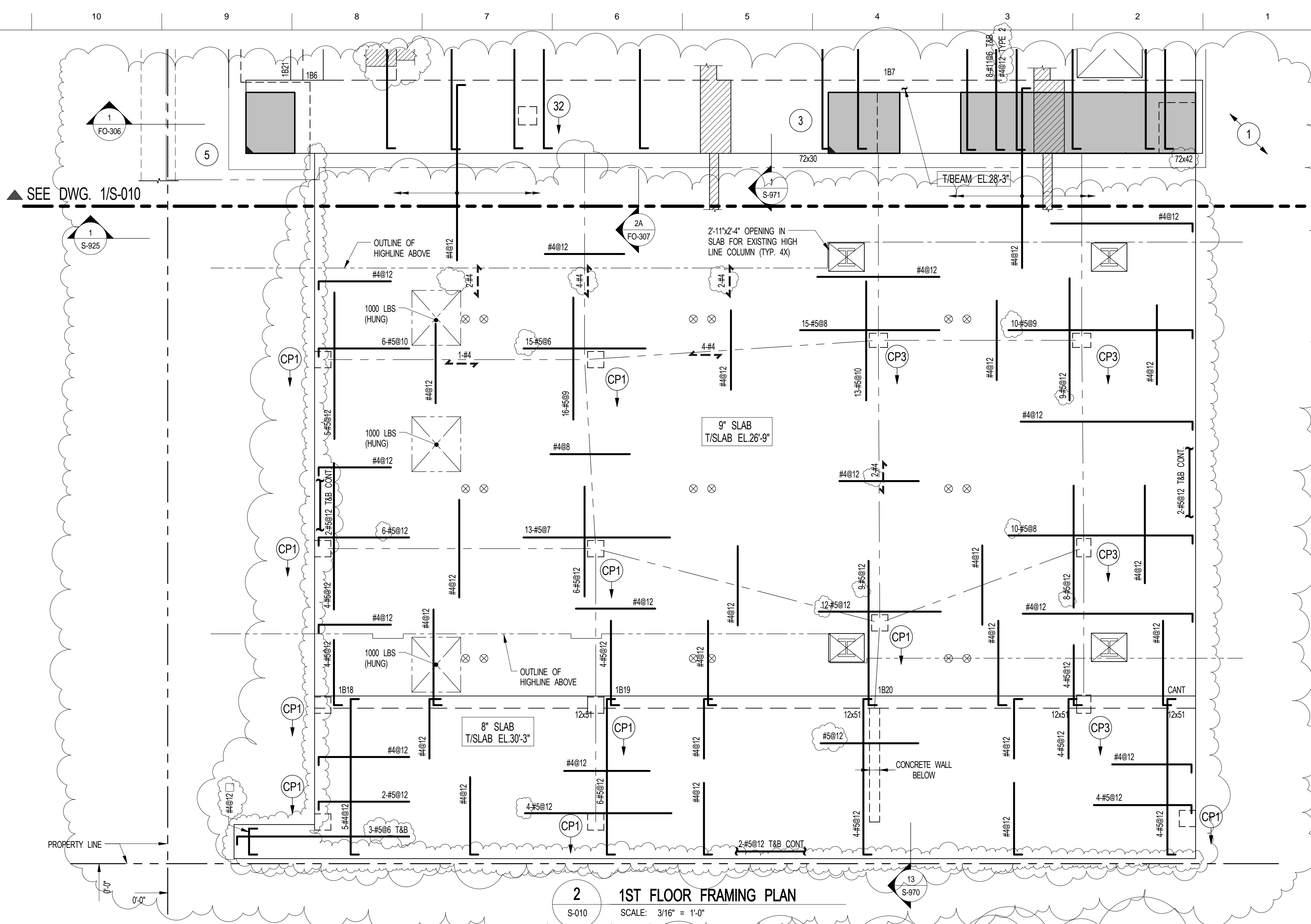
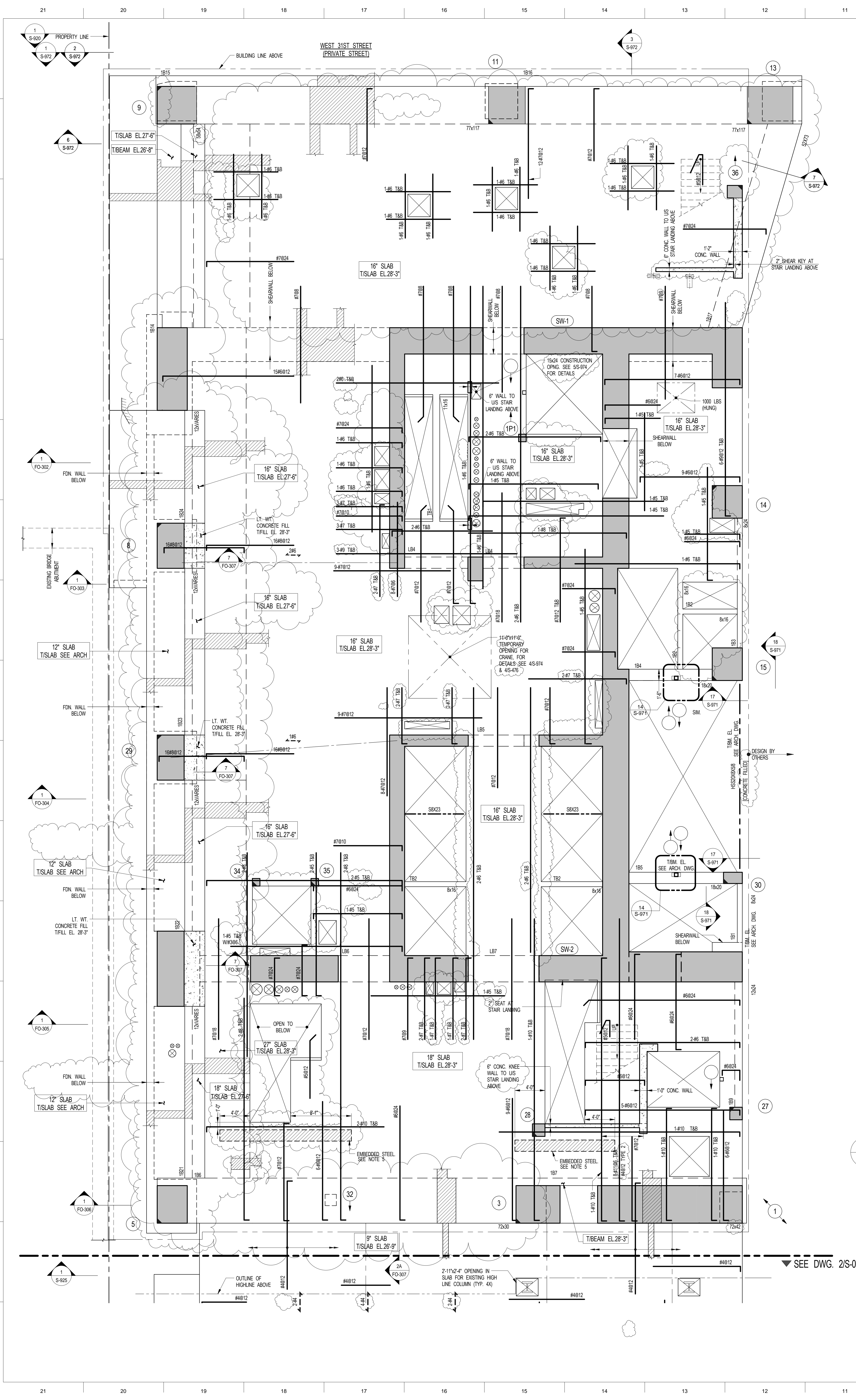
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3 PART FRAMING PLAN AT LIRR DRIVE CEILING
 S-010 SCALE: 3/16" = 1'-0"

REINFORCEMENT

BEAM MARK	SIZE (WD) (IN)	BOTTOM CONTINUOUS	TOP CONTINUOUS	ADDL BARS AT SUPPORT	STIRRUPS	REMARKS
TB1	1#SEE NOTE 2	2#5	2#5		1 #3 @ 8"	EXTEND T&B REIN. MIN. TENSION DEVELOPMENT LENGTH INTO SLAB
TB2	B&EE NOTE 2	2#5	2#5		1 #3 @ 8"	

1 1ST FLOOR FRAMING PLAN
 S-010 SCALE: 3/16" = 1'-0"

REINFORCEMENT

BEAM MARK	SIZE (WD) (IN)	BOTTOM CONTINUOUS	TOP CONTINUOUS	ADDL BARS AT SUPPORT	STIRRUPS	REMARKS
1B1	8x24	2#6	2#5		1 #3 @ 10"	EXTEND T&B REIN. MIN. TENSION DEVELOPMENT LENGTH INTO SLAB
1B2	8x16	2#6	2#5		1 #3 @ 8"	
1B3	8x24	2#7	2#5		1 #3 @ 10"	
1B4	18x20	2#7	2#5		1 #4 @ 8"	
1B5	18x20	2#7	2#5		1 #4 @ 8"	
1B6	72x30	3#11	3#11		3 #4 @ 12"	ADDL 2#4#11 IN 3 LAYERS BETWEEN T&B REIN. SEE NOTE 1
1B7	72x42	3#11	3#11		3 #4 @ 12"	ADDL 4#4#11 IN 5 LAYERS BETWEEN T&B REIN. SEE NOTE 1
1B9	12x56	3#7	2#5		1 #4 @ 10"	
1B14	8x24	-	-	-	-	SEE 15-972 FOR REIN. AND GEOMETRY
1B15	77x117	-	-	-	-	SEE 15-972 FOR REIN. AND GEOMETRY
1B16	77x117	-	-	-	-	SEE 15-972 FOR REIN. AND GEOMETRY
1B17	82x73	-	-	-	-	SEE 15-972 FOR REIN. AND GEOMETRY
1B18	12x51	2#6	2#6		1 #4 @ 12"	#4810 SKIN REIN.
1B19	12x51	2#6	2#6		1 #4 @ 12"	#4810 SKIN REIN.
1B20	12x51	2#6	2#6		1 #4 @ 12"	#4810 SKIN REIN.
1B21	12xVARIES	3#11	3#11		1 #4 @ 12"	#4810 SKIN REIN. ADDL 18#11 IN 6 LAYERS BETWEEN T&B REIN. SEE NOTE 1. MIN-DEPTH 52". SEE 17FO-306 AND 17FO-307
1B22	12xVARIES	3#11	3#11		1 #5 @ 12"	#4810 SKIN REIN. ADDL 18#11 IN 6 LAYERS BETWEEN T&B REIN. SEE NOTE 1. MIN-DEPTH 52". SEE 17FO-304
1B23	12xVARIES	3#11	3#11		1 #5 @ 12"	#4810 SKIN REIN. ADDL 18#11 IN 6 LAYERS BETWEEN T&B REIN. SEE NOTE 1. MIN-DEPTH 52". SEE 17FO-303
1B24	12xVARIES	3#11	3#11		1 #5 @ 12"	#4810 SKIN REIN. ADDL 18#11 IN 6 LAYERS BETWEEN T&B REIN. SEE NOTE 1. MIN-DEPTH 52". SEE 17FO-302

TYPICAL BEAM SCHEDULE

REINFORCEMENT

BEAM MARK	SIZE (WD) (IN)	BOTTOM CONTINUOUS	TOP CONTINUOUS	ADDL BARS AT SUPPORT	STIRRUPS	REMARKS
TB1	1#SEE NOTE 2	2#5	2#5		1 #3 @ 8"	EXTEND T&B REIN. MIN. TENSION DEVELOPMENT LENGTH INTO SLAB
TB2	B&EE NOTE 2	2#5	2#5		1 #3 @ 8"	

1ST FL BM SCHEDULE

REINFORCEMENT

BEAM MARK	SIZE (WD) (IN)	BOTTOM CONTINUOUS	TOP CONTINUOUS	ADDL BARS AT SUPPORT	STIRRUPS	REMARKS
1B1	8x24	2#6	2#5		1 #3 @ 10"	EXTEND T&B REIN. MIN. TENSION DEVELOPMENT LENGTH INTO SLAB
1B2	8x16	2#6	2#5		1 #3 @ 8"	
1B3	8x24	2#7	2#5		1 #3 @ 10"	
1B4	18x20	2#7	2#5		1 #4 @ 8"	
1B5	18x20	2#7	2#5		1 #4 @ 8"	
1B6	72x30	3#11	3#11		3 #4 @ 12"	ADDL 2#4#11 IN 3 LAYERS BETWEEN T&B REIN. SEE NOTE 1
1B7	72x42	3#11	3#11		3 #4 @ 12"	ADDL 4#4#11 IN 5 LAYERS BETWEEN T&B REIN. SEE NOTE 1
1B9	12x56	3#7	2#5		1 #4 @ 10"	
1B14	8x24	-	-	-	-	SEE 15-972 FOR REIN. AND GEOMETRY
1B15	77x117	-	-	-	-	SEE 15-972 FOR REIN. AND GEOMETRY
1B16	77x117	-	-	-	-	SEE 15-972 FOR REIN. AND GEOMETRY
1B17	82x73	-	-	-	-	SEE 15-972 FOR REIN. AND GEOMETRY
1B18	12x51	2#6	2#6		1 #4 @ 12"	#4810 SKIN REIN.
1B19	12x51	2#6	2#6		1 #4 @ 12"	#4810 SKIN REIN.
1B20	12x51	2#6	2#6		1 #4 @ 12"	#4810 SKIN REIN.
1B21	12xVARIES	3#11	3#11		1 #4 @ 12"	#4810 SKIN REIN. ADDL 18#11 IN 6 LAYERS BETWEEN T&B REIN. SEE NOTE 1. MIN-DEPTH 52". SEE 17FO-306 AND 17FO-307
1B22	12xVARIES	3#11	3#11		1 #5 @ 12"	#4810 SKIN REIN. ADDL 18#11 IN 6 LAYERS BETWEEN T&B REIN. SEE NOTE 1. MIN-DEPTH 52". SEE 17FO-304
1B23	12xVARIES	3#11	3#11		1 #5 @ 12"	#4810 SKIN REIN. ADDL 18#11 IN 6 LAYERS BETWEEN T&B REIN. SEE NOTE 1. MIN-DEPTH 52". SEE 17FO-303
1B24	12xVARIES	3#11	3#11		1 #5 @ 12"	#4810 SKIN REIN. ADDL 18#11 IN 6 LAYERS BETWEEN T&B REIN. SEE NOTE 1. MIN-DEPTH 52". SEE 17FO-302

BEAM SCHEDULE NOTES:

- ALL LONGITUDINAL REIN. TO BE GR57 SPLICES TO BE ACHIEVED USING MECHANICAL COUPLERS AND THREADED REBARS TO BE TERMINATED USING APPROVED TERMINATORS AT EACH LOCATION OF COUPLERS TO BE SPACED 3'-0" ON PLAN.
- DEPTH OF BEAM TO MATCH DEPTH OF SLAB TO WHICH IT IS CONNECTED U.O.N. ON PLAN.
- WHERE BARS ARE DETAILED IN MULTIPLE LAYERS, THE QUANTITY OF BARS INDICATED IS THE TOTAL NUMBER OF BARS NOT THE NUMBER OF BARS IN EACH LAYER.

KEY PLAN

NO. ISSUE SET

NO.	ISSUE SET	REV DATE
1	FINAL SP ISSUE	4.11.25-13
2	PROGRESS SET	5.02.18-14
3	FOUNDATION BID SET	6.06.02-14
4	FOUNDATION BID SET	7.07.11-14
5	REVISED AS NOTED	8.07.31-14
6	REVISED SD	9.08.22-14
7	REVISED AS NOTED	10.08.27-14
8	REVISED AS NOTED	11.09.29-14
9	NYCT SUBMISSION	12.10.15-14
10	SUPERSTRUCTURE EARLY BID	13.11.17-14
11	SET	
12	NYCT SUBMISSION	14.11.18-14
13	DOB SUBMISSION	15.12.08-14
14	DESIGN DEVELOPMENT SET	16.12.22-14
15	NYCT SUBMISSION	17.12.23-14
16	UPDATED DOB SET	18.01.28-15
17	NYCT SUBMISSION	19.01.22-15
18	70% CD	20.04.27-15
19	80% CD	21.07.02-15
20	REVISED AS NOTED	22.07.30-15
21	80% PARTIAL CD ISSUE - FLOORS	23.09.03-15
22	85% CD	24.11.24-15
23	P&A #2	25.01.28-16

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DRAWING SCALE
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PROJECT NUMBER
 2012088

TITLE
 1ST FLOOR FRAMING PLAN

DRAWING NO.
S-010.02

Damjan Titus
 Buildings
 APPROVED Under Electronic Seal
 LICENSE APPLICATION
 Date: 03/01/2016
 NYC Development Hub

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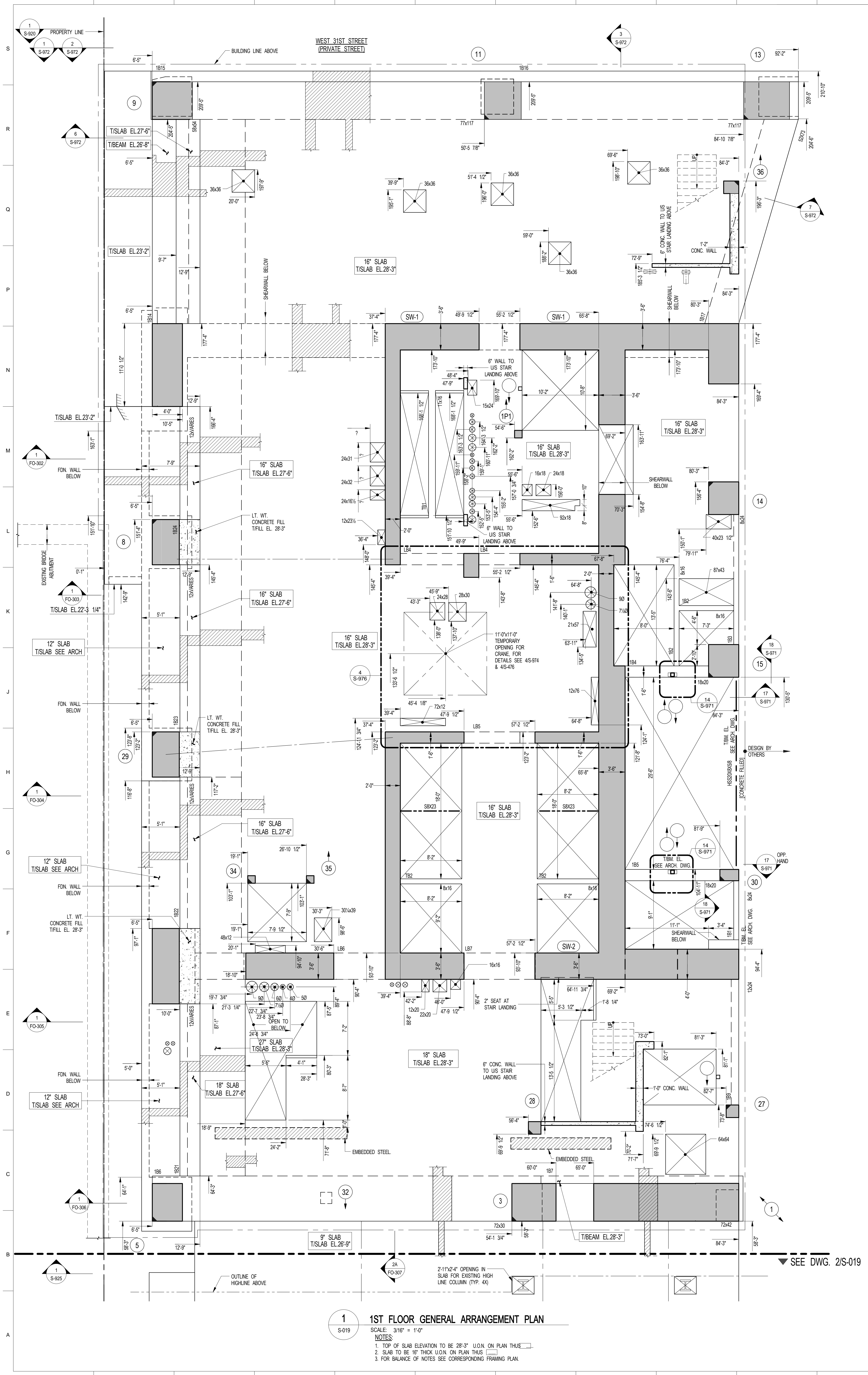
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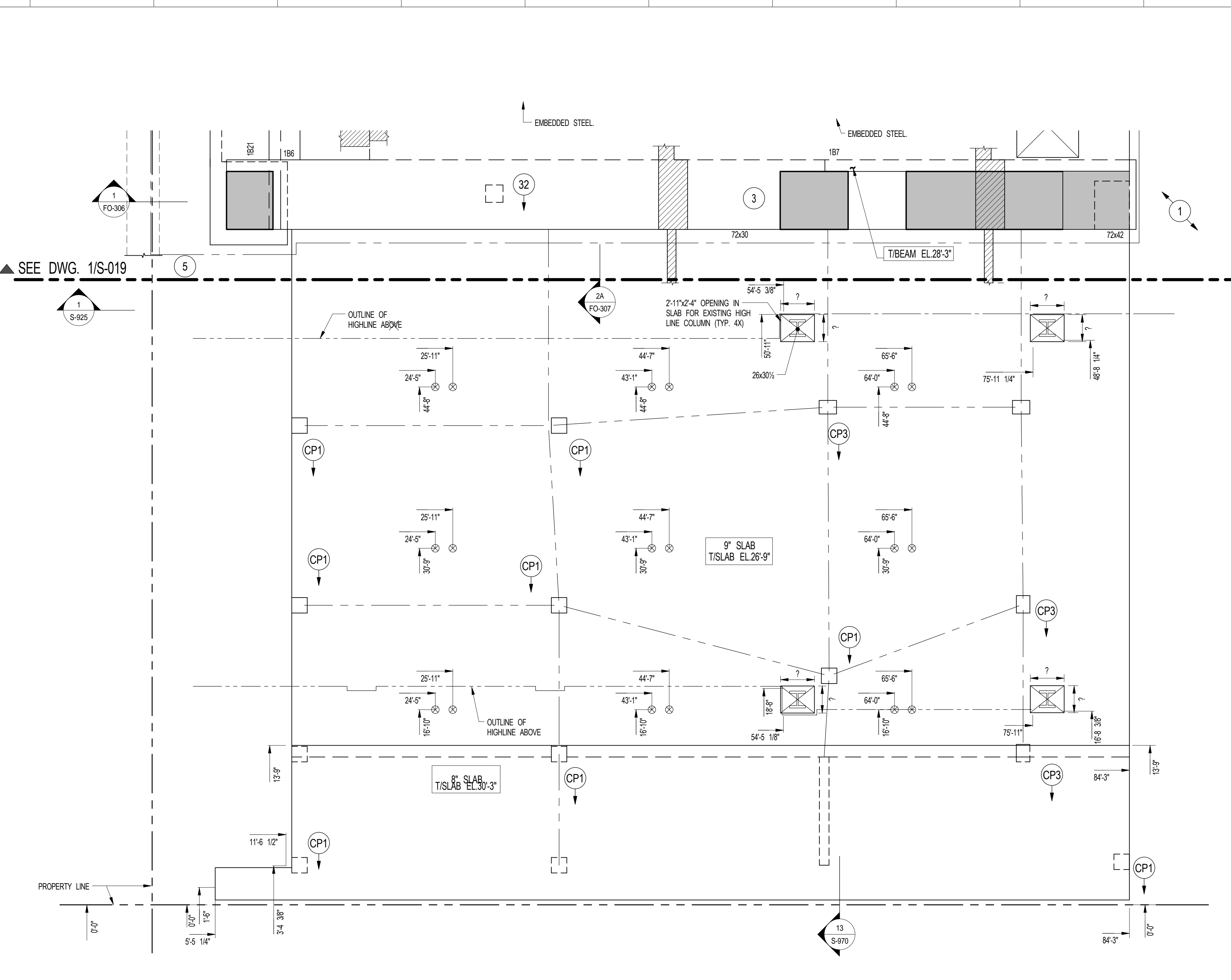
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SHEET NOTES:



1 1ST FLOOR GENERAL ARRANGEMENT PLAN
S-019
SCALE: 3/16" = 1'-0"
NOTES:
1. TOP OF SLAB ELEVATION TO BE 28'-3" U.O.N. ON PLAN THIS []
2. SLAB TO BE 16" THICK U.O.N. ON PLAN THIS []
3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.



2 1ST FLOOR GENERAL ARRANGEMENT PLAN
S-019
SCALE: 3/16" = 1'-0"

KEY PLAN

NO.	ISSUE SET	REV DATE
1	70% CD	1 04-27-15
2	85% CD	2 07-02-15
3	REVISED AS NOTED	3 07-30-15
4	80% PARTIAL CD ISSUE - FLOORS	4 09-03-15
5	SC-12	
6	85% CD	5 11-24-15
7	PAA #2	6 01-28-16
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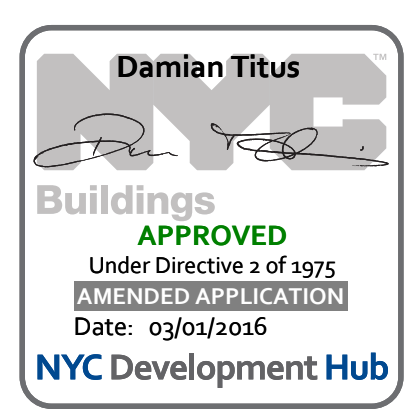
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DRAWING SCALE
As indicated

PROJECT NUMBER
2012088

TITLE
1ST FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.
S-019.00



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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	100% SD ISSUE	1 02-15-13
2	REVISED SD ISSUE	2 05-06-13
3	REVISED SD ISSUE	3 08-21-13
4	FINAL SD ISSUE	4 11-28-13
5	REVISED SD	5 08-22-14
6	REVISED AS NOTED	6 09-29-14
7	SUPERSTRUCTURE EARLY BID	7 11-17-14
8	SET	
9	DESIGN DEVELOPMENT SET	8 12-22-14
10	NYCT SUBMISSION	9 12-23-14
11	UPDATED DOB SET	10 01-20-15
12	70% CD	11 04-27-15
13	80% CD	12 02-02-15
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15	95% CD	13 09-03-15
16	PAA #2	14 11-24-15
17		15 01-28-16
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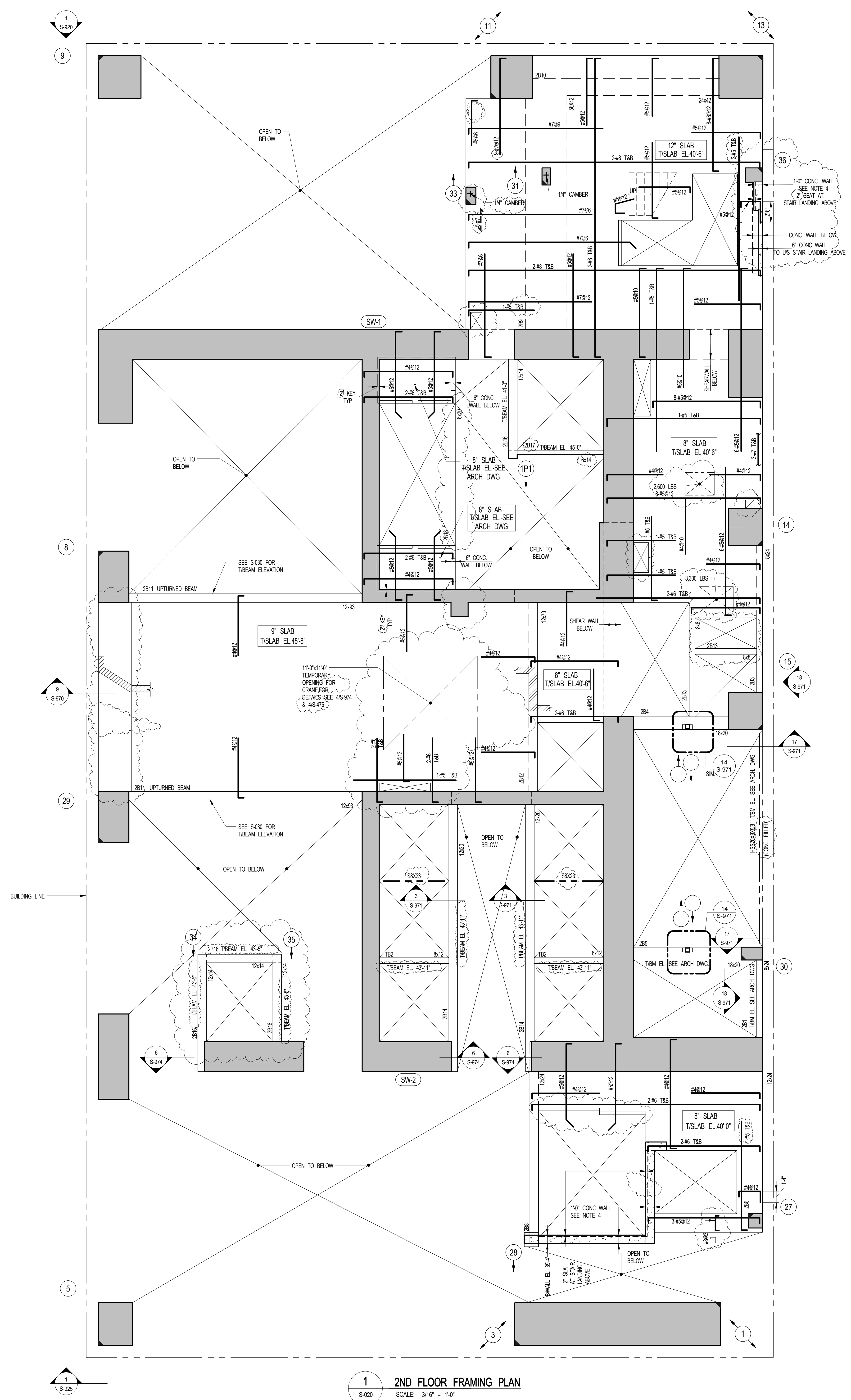
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2012088

TITLE
2ND FLOOR FRAMING PLAN

DRAWING NO.
S-020.01



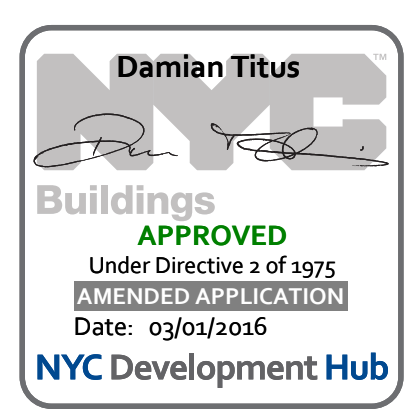
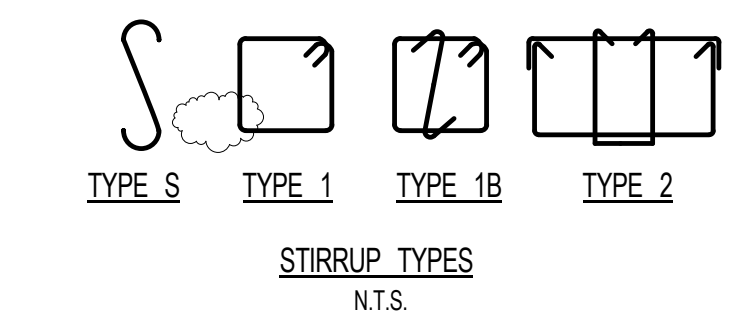
1 2ND FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
- TOP OF SLAB ELEVATION TO BE +40'-0" U.O.N. ON PLAN THIS [] ON PLAN.
 - SLAB TO BE 12" THICK U.O.N. THIS [] ON PLAN.
 - MECH REINFORCEMENT TO BE #4@12" BOTTOM CONT. EW FOR 8" SLAB U.O.N. ON PLAN. #8@8" BOTTOM CONT. NS AND #8@12" BOTTOM CONT. EW FOR 9" SLAB U.O.N. ON PLAN.
 - CONC. WALL TO BE RENE. AS FOLLOWS: SOUTH STAR #8@12" E.F. HOR. #8@12" E.F. VERT. NORTH STAR #8@12" E.F. HOR. #8@12" E.F. VERT.
 - FOR BALANCE OF NOTES SEE DRAWING S-010.

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT		STIRRUPS		REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TYPE	SIZE / SPACING	
281	8x24	2-#6	2-#5	1	#3 @10	
283	8x24	2-#7	2-#5	1	#3 @10	
284	18x20	2-#7	2-#5	1	#4 @8	
285	18x20	2-#7	2-#5	1	#4 @8	
286	12x24	3-#7	2-#5	1	#4 @10	
288	12x24	2-#8	4-#11 (2 LAYERS)	1	#5 @8	
289	8x42	17-#11	11-#11	2	#10	#4@10SKIN REIN. TOP BARS TO EXTEND TENSION DEV. LENGTH INTO SW-1. SEE NOTE 2
2810	24x42	6-#11 (2 LAYERS)	3-#8	#8	#5 @5	#4@10SKIN REIN. SEE NOTE 2
2811	12x63	3-#10	2-#6	1	#4 @12	#4@10SKIN REIN.
2812	12x70	2-#7	2-#5	1	#4 @12	#4@10SKIN REIN.
2813	8x8	2-#4	2-#4	1	#3 @3	EXTEND BARS TENSION DEV. LENGTH INTO SLAB
2814	12x20	2-#8	2-#6	1	#4 @8	
2816	12x14	2-#7	2-#7	1	#4 @8	
2817	8x14	1-#7	1-#6	1	#3 @4	
2818	8x20	1-#8	1-#6	1	#3 @4	

NOTES:

- WHERE BARS ARE DETAILED IN MULTIPLE LAYERS, THE QUANTITY OF BARS INDICATED IS THE TOTAL NUMBER OF BARS NOT THE NUMBER OF BARS IN EACH LAYER.
- REINFORCEMENT OF 2810 TO BE PLACED IN OUTER MOST LAYER & REINFORCEMENT OF 289 TO BE PLACED INSIDE 2810 REINFORCEMENT AT INTERSECTION OF BEAMS.



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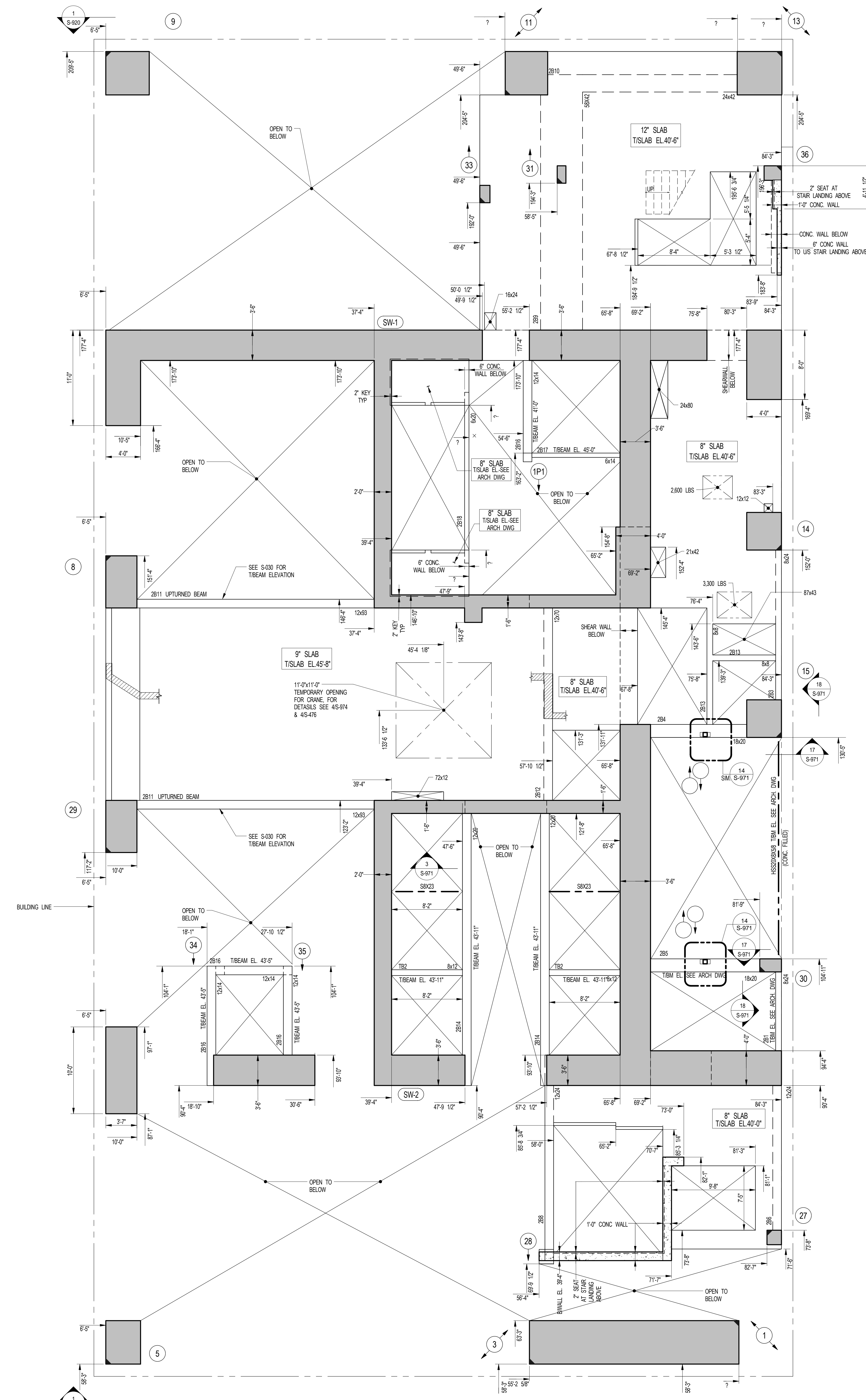
LEED CONSULTANT:
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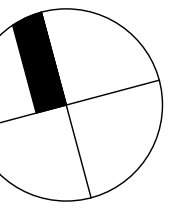
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1 2ND FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. TOP OF SLAB ELEVATION TO BE +47'-6" U.O.N. ON PLAN THIS []
2. SLAB TO BE 12" THICK U.O.N. THIS [] ON PLAN
3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN

KEY PLAN



NO.	ISSUE SET	REV DATE
1	70% CD	1 04-27-15
2	80% CD	2 07-02-15
3	80% PARTIAL CD ISSUE - FLOORS	3 09-03-15
4	80% CD	4 11-24-15
5	80% CD	4 11-24-15
6	PAA #2	5 01-26-16
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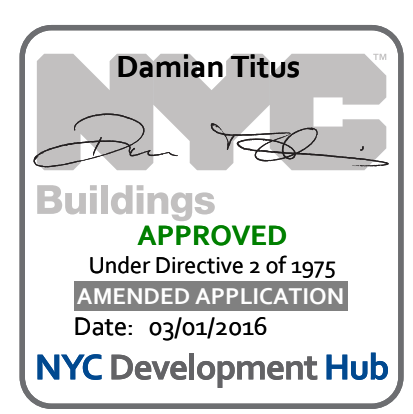
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DRAWING SCALE
As indicated

PROJECT NUMBER
2012058

TITLE
2ND FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.
S-029.00



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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	100% SD ISSUE	1 02-15-13
2	REVISED SD ISSUE	2 05-06-13
3	REVISED SD ISSUE	3 08-21-13
4	FINAL SD ISSUE	4 11-28-13
5	REVISED SD	5 08-22-14
6	REVISED AS NOTED	6 09-29-14
7	SUPERSTRUCTURE EARLY BID SET	7 11-17-14
8	SET	
9	DESIGN DEVELOPMENT SET	8 12-22-14
10	NYCT SUBMISSION	9 12-23-14
11	UPDATED DOOR SET	10 01-20-15
12	70% CD	11 04-27-15
13	80% CD	12 07-02-15
14	90% PARTIAL CD ISSUE - FLOORS	13 09-03-15
15	95% CD	14 11-24-15
16	PAA #2	15 01-28-16
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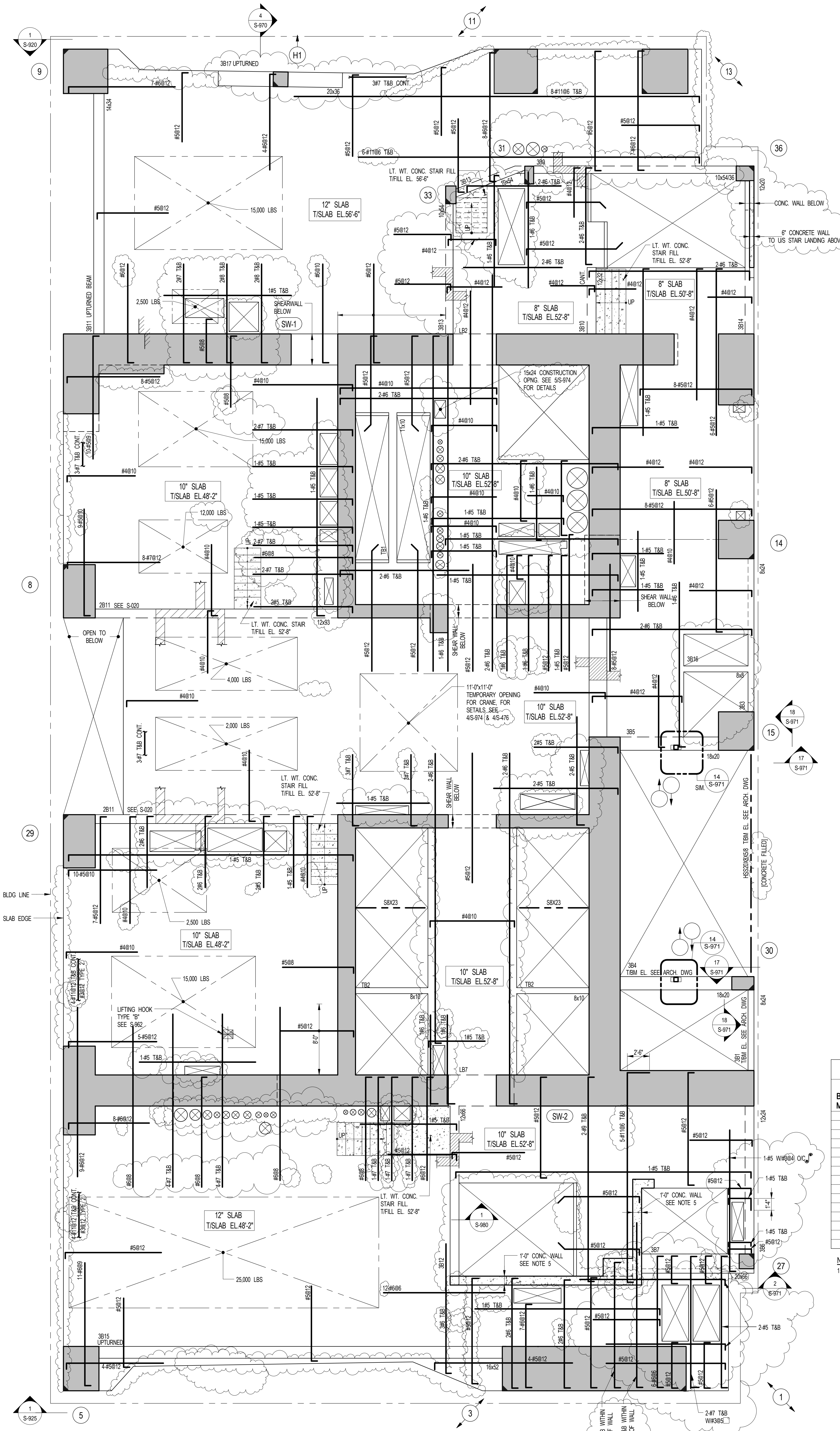
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As indicated

PROJECT NUMBER

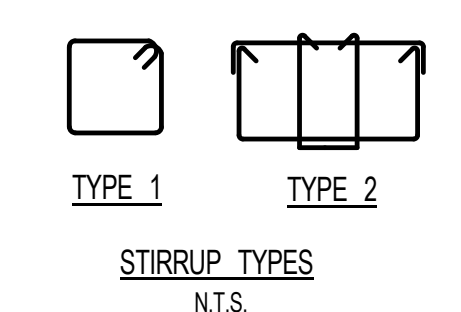
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3RD FLOOR FRAMING PLAN

DRAWING NO.
S-030.01



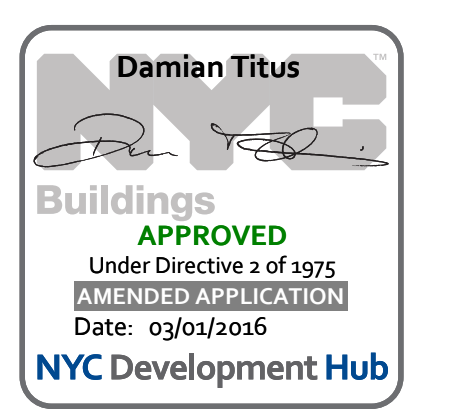
BEAM MARK	SIZE (WxD) (IN)	REINFORCEMENT		STIRRUPS		REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TYPE	SIZE SPACING	
301	8x24	2#5	2#5	#3	@10	
303	8x24	2#7	2#5	#3	@10	
304	18x20	2#7	2#5	#4	@8	
305	18x20	2#7	2#5	#4	@8	
306	12x24	3#7	2#5	#4	@10	
307	20x6	2#6	2#6	#5	@8	#7@10 SKIN REIN.
309	18x24/36	2#6	2#6	#4	@12	#4@10 SKIN REIN.
310	12x32	2#6	2#6	#4	@12	EXTEND TOP BARS MIN. TENSION DEVELOPMENT LENGTH INTO SHEARWALL
311	14x34	2#10	2#9	#4	@12	UPLIFTED BEAM
312	12x6	4#7 (2 LAYERS)	2#5	#3	@12	#4@10 SKIN REIN.
313	16x4	2#9	2#7	#4	@12	#4@10 SKIN REIN. EXTEND TOP BARS MIN. TENSION DEVELOPMENT LENGTH INTO SHEARWALL (WHERE APPLICABLE)
314	12x0	3#7	2#7	#4	@8	
315	16x2	4#11	4#11 (2 LAYERS)	#4	@12	6-#11 E.F. SKIN REIN.
316	8x8	2#4	2#4	#3	@3	EXTEND TOP REIN. MIN. TENSION DEVELOPMENT LENGTH INTO SLAB
317	20x6	4#9	4#11	2	#4	@10 SEE SECTION 45-970 FOR DETAIL.

NOTES:
1. WHERE BARS ARE DETAILED IN MULTIPLE LAYERS, THE QUANTITY OF BARS INDICATED IS THE TOTAL NUMBER OF BARS NOT THE NUMBER OF BARS IN EACH LAYER.



1 3RD FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 48'-2" U.O.N. ON PLAN THIS [] ON PLAN
2. SLAB TO BE 12" THICK U.O.N. THIS [] ON PLAN
3. MESH REINFORCEMENT TO BE #4@12 BOTTOM CONT. E.W. FOR 8" SLAB U.O.N. ON PLAN
#4@10 BOTTOM CONT. E.W. FOR 10" SLAB U.O.N. ON PLAN
#5@12 BOTTOM CONT. E.W. FOR 12" SLAB U.O.N. ON PLAN
4. BOTTOM REINFORCEMENT TO BE #10@12 CONT. NS AND #4@10 CONT. E.W. FOR ADDITIONAL BARS SEE PLAN
5. CONC. WALL TO BE REIN. AS FOLLOWS: #5@12 E.F. HOR.
#4@12 E.F. VERT.
6. FOR BALANCE OF NOTES SEE DRAWING 5-010.



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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	70% CD	1 04-27-15
2	80% CD	2 07-02-15
3	80% PARTIAL CD ISSUE - FLOORS	3 09-03-15
4	90% CD	4 11-24-15
5	95% CD	5 01-26-16
6	PAA #2	
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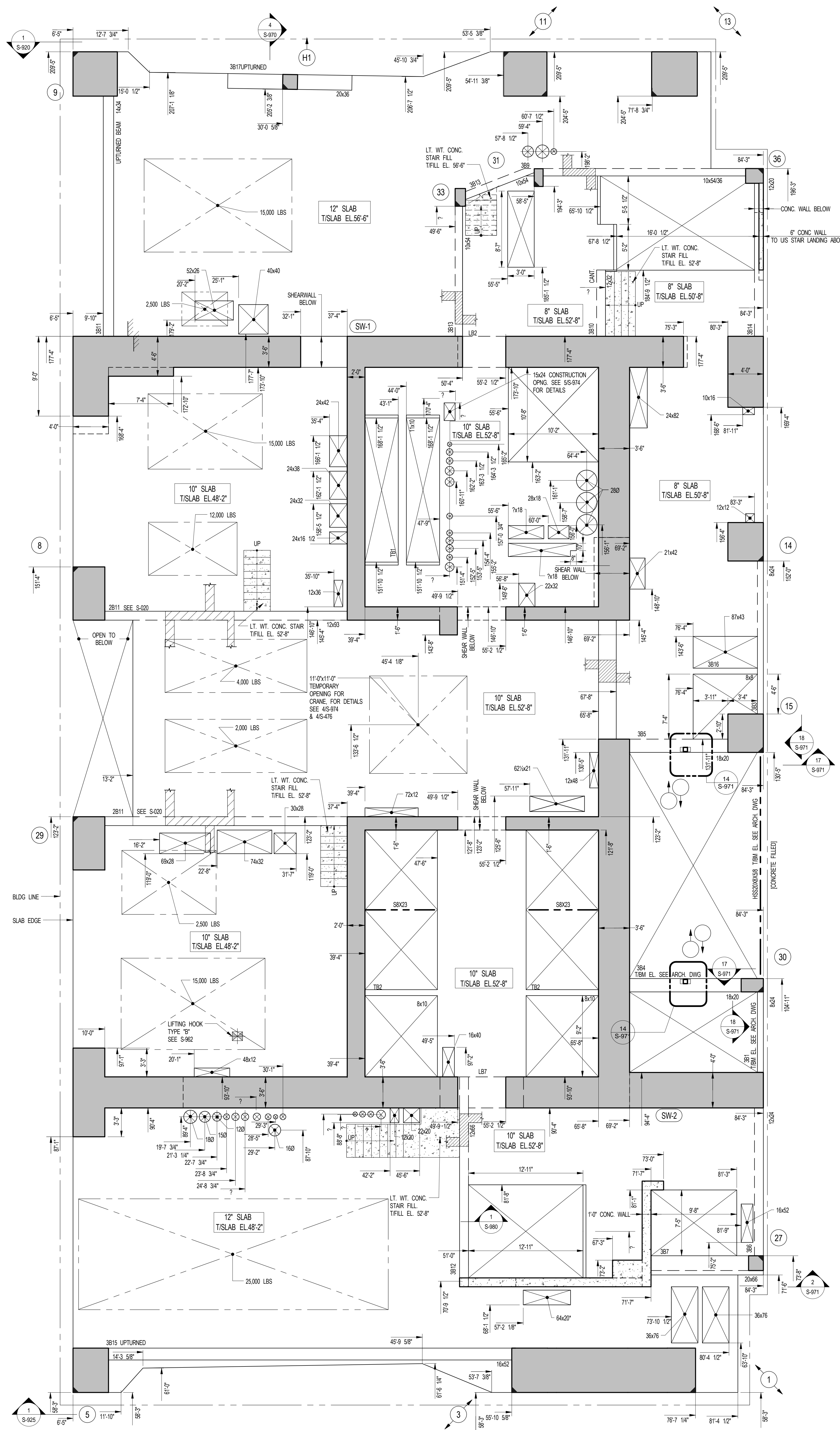
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DRAWING SCALE
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PROJECT NUMBER

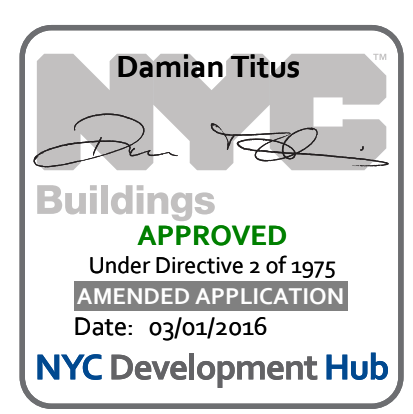
TITLE
3RD FLOOR GENERAL ARRANGEMENT
PLAN

DRAWING NO.
S-039.00



1 3RD FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
- TOP OF SLAB ELEVATION TO BE 48'-2" U.O.M. ON PLAN THUS []
 - SLAB TO BE 12" THICK U.O.M. THUS [] ON PLAN
 - FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN



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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	100% SD ISSUE	1 02-15-13
2	REVISED SD ISSUE	2 05-06-13
3	REVISED SD ISSUE	3 08-21-13
4	FINAL SD ISSUE	4 11-28-13
5	REVISED SD	5 08-22-14
6	REVISED AS NOTED	6 09-29-14
7	SUPERSTRUCTURE EARLY BID SET	7 11-17-14
8	SET	
9	DESIGN DEVELOPMENT SET	8 12-22-14
10	NYCT SUBMISSION	9 12-23-14
11	UPDATED DOOR SET	10 01-20-15
12	70% CD	11 04-27-15
13	80% CD	12 07-02-15
14	90% PARTIAL CD ISSUE - FLOORS	13 09-03-15
15	95% CD	
16	PAA #2	14 11-24-15
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STAMP

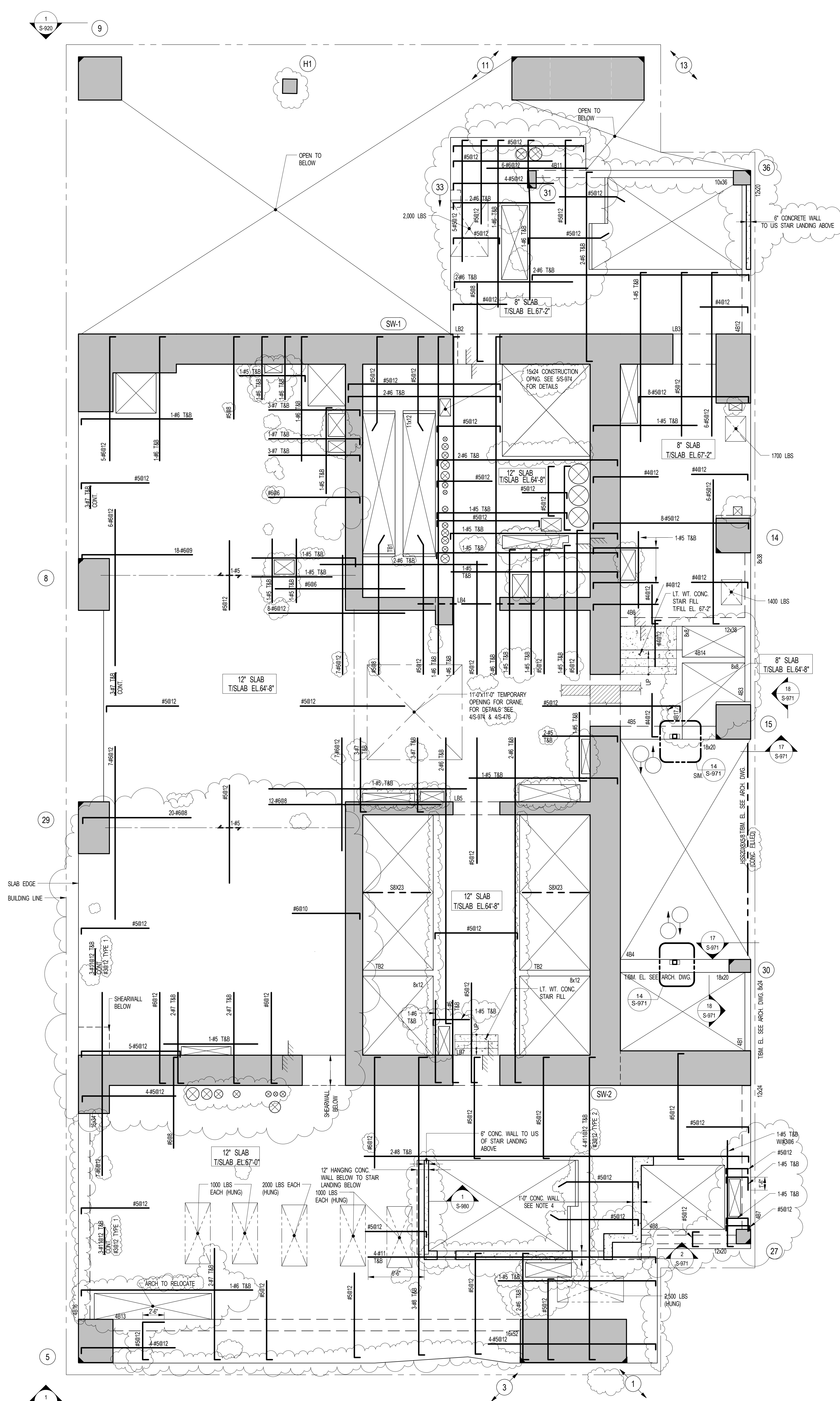
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DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
4TH FLOOR FRAMING PLAN

DRAWING NO.
S-040.01



1 4TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

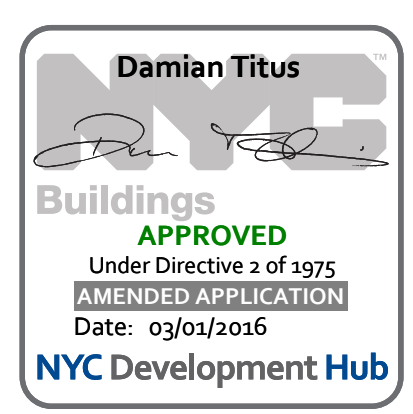
- NOTES:**
- TOP OF SLAB ELEVATION TO BE 67'-2" U.O.N. ON PLAN THIS [] ON PLAN.
 - SLAB TO BE 12" THICK U.O.N. THIS [] ON PLAN.
 - MESH REINFORCEMENT TO BE #6@12 BOTTOM CONT. E.W. FOR 8" SLAB U.O.N. ON PLAN. #6@12 BOTTOM CONT. E.W. FOR 12" SLAB U.O.N. ON PLAN.
 - CONC. WALL TO BE REINF. AS FOLLOWS: #6@12 E.F. HORIZ. #6@12 E.F. VERT.
 - FOR BALANCE OF NOTES SEE DRAWING S-010.

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT		TOP ADDL. BARS AT SUPPORT	STIRRUPS		REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS		TYPE	SPACING	
4B1	8x24	2-#6	2-#5		#3	#10	
4B3	8x25	4-#9 (2 LAYERS)	4-#6 (2 LAYERS)		#4	#12	#4@10 SKIN REINF. T-BEAM EL. +57'-2"
4B4	18x20	2-#7	2-#5		#4	#8	
4B5	18x20	2-#7	2-#5		#4	#8	
4B6	12x38	2-#7	2-#5		#4	#12	#4@10 SKIN REINF.
4B7	12x24	2-#7	2-#5		#4	#10	
4B8	12x20	2-#7	2-#5		#4	#8	
4B11	10x36	2-#9	2-#6		#4	#12	#3@8 E.F. SKIN REINF.
4B12	12x20	2-#7	2-#7		#4	#8	
4B13	16x32	4-#10	4-#9 (2 LAYERS)		#4	#12	#6@10 SKIN REINF.
4B14	8x8	2-#4	2-#4		#3	#3	EXTEND TSB REINF. MIN. TENSION DEVELOPMENT LENGTH INTO SLAB
4B15	16x24	2-#6	2-#7		#3	#12	SEE TYP. DETAIL FOR VERTICAL SLEEVES-RUNNING-THROUGH-BEAMS
4B17	8x8	2-#4	2-#4		#3	#3	

NOTES:

1. WHERE BARS ARE DETAILD IN MULTIPLE LAYERS, THE QUANTITY OF BARS INDICATED IS THE TOTAL NUMBER OF BARS NOT THE NUMBER OF BARS IN EACH LAYER.

TYPE 1
STIRRUP TYPES
N.T.S.



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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	70% CD	1 04-27-15
2	80% CD	2 07-02-15
3	80% PARTIAL CD ISSUE - FLOORS	3 09-03-15
4	90% CD	4 11-24-15
5	95% CD	5 01-26-16
6	PAA #2	
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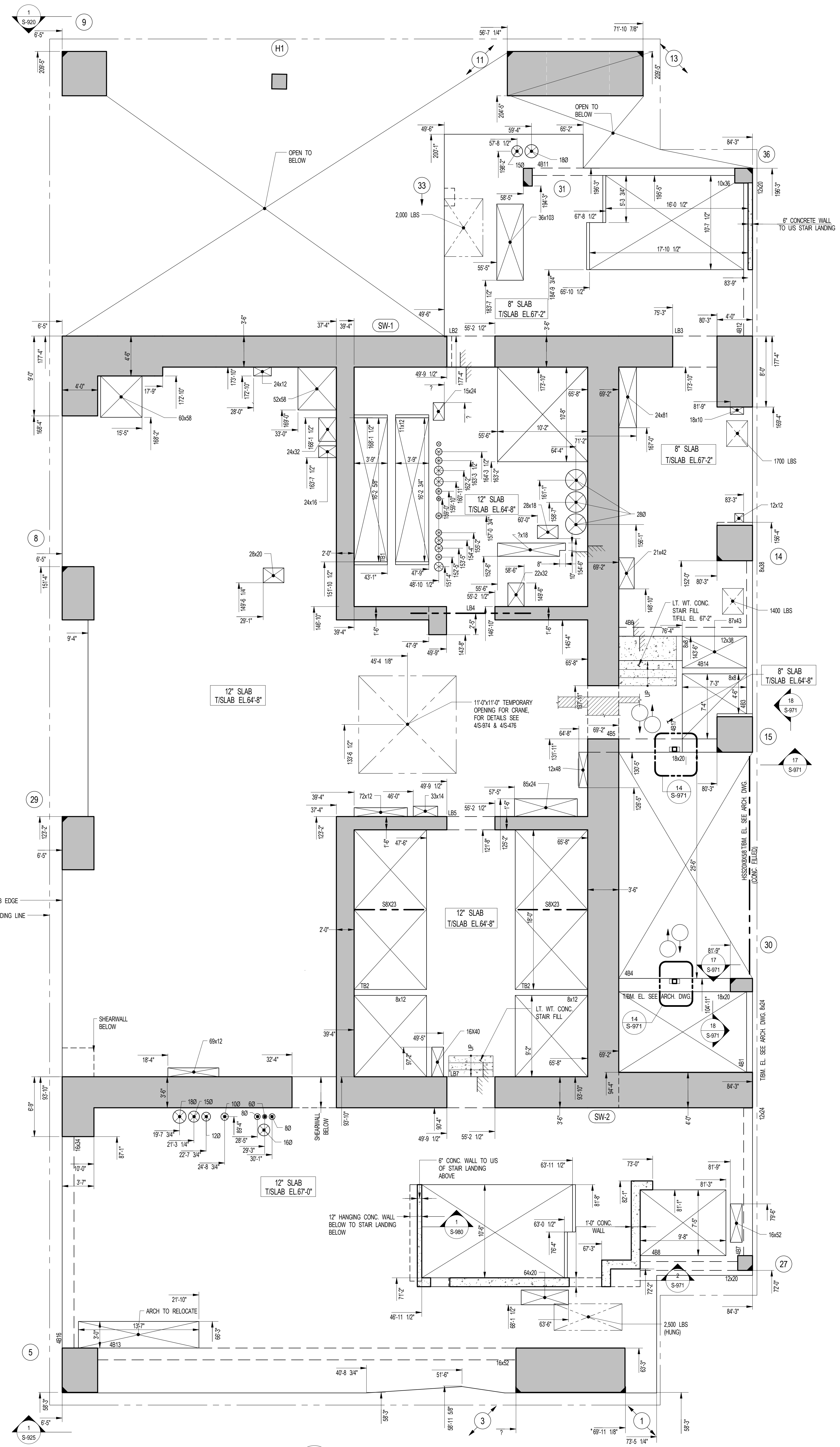
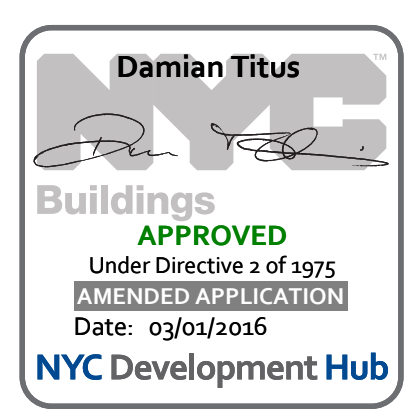
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DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
4TH FLOOR GENERAL ARRANGEMENT
PLAN

DRAWING NO.
S-049.00



1 4TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

NOTES
1. TOP OF SLAB ELEVATION TO BE 67'-2" U.O.N. ON PLAN THIS [] ON PLAN
2. SLAB TO BE 12" THICK U.O.N. THIS [] ON PLAN
3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN

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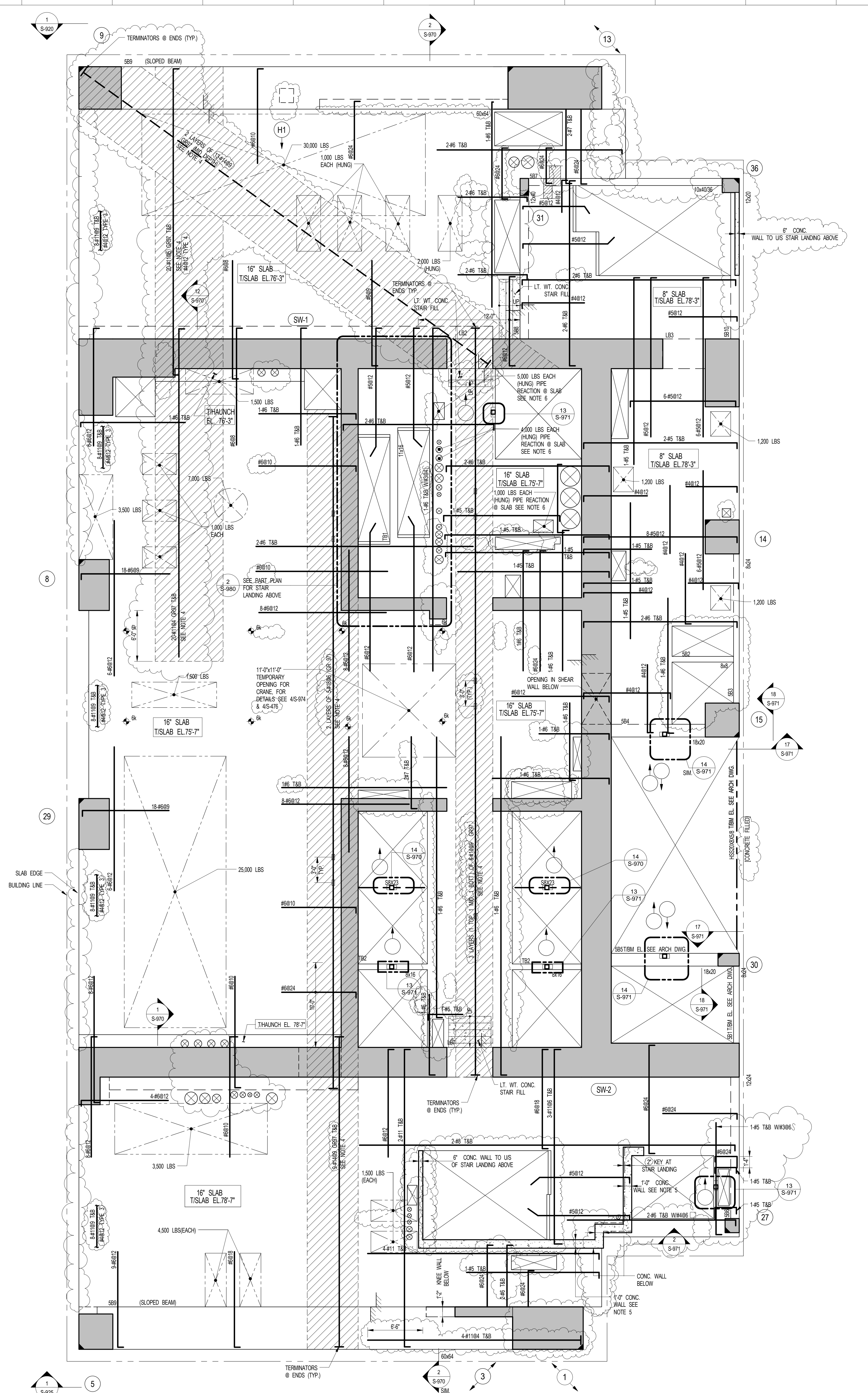
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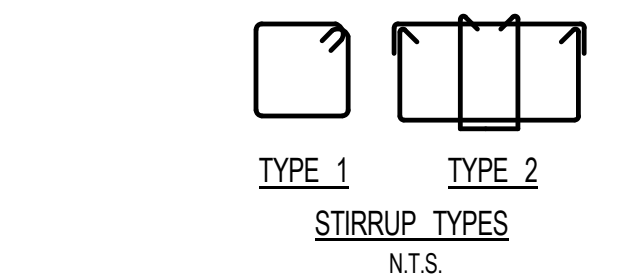
1 5TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"
S-500

- NOTES:**
- TOP OF SLAB ELEVATION TO BE 75'-7" UNLESS NOTED OTHERWISE ON PLAN.
 - SLAB TO BE 16" THICK UNLESS NOTED OTHERWISE ON PLAN.
 - MESH REINFORCEMENT TO BE #4@12 BOTTOM CONT. E.W. FOR 8" SLAB UNLESS NOTED OTHERWISE ON PLAN. #4@12 TOP & BOTTOM CONT. E.W. FOR 12" SLAB UNLESS NOTED OTHERWISE ON PLAN.
 - REINFORCING TO BE SPUN USING MECHANICAL COUPLERS & THREADED REBAR. LOCATION OF SPLICE TO BE STAGGERED 3'-0" ON PLAN. AREA INDICATED BY A NO FLY ZONE. MECH REBAR PARALLEL TO REINFORCING TO BE OMITTED IN SHARED ZONE (NOT APPLICABLE FOR MID-DEPTH REINFORCING). LOCATION OF SPLICE ON PLAN ARE RECOMMENDED. ACTUAL LOCATION OF SPLICE DICTATED BY MEANS AND METHODS OF CONSTRUCTION.
 - CONC. WALL TO BE REIN. AS FOLLOWS: #4@12 E.F. VERT. #4@12 E.F. VERT.
 - SEE MEP DWG FOR SUPPORT DETAILS. MIN. BEARING AREA TO BE 3'-0".
 - FOR BALANCE OF NOTES SEE DRAWING S-510.

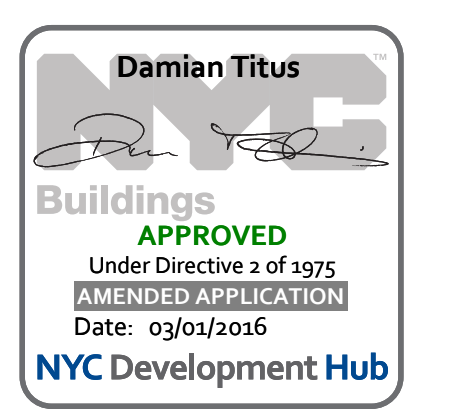
KEY:

- INDICATES 6000 LB MEP LOAD FROM TOWER C DUCT ABOVE. STEEL FRAMING BY OTHERS.
- INDICATES NO FLY ZONE.

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT		STIRRUPS		REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TOP ADDL BARS AT SUPPORT	TYPE	
SB1	8x24	2-#5	2-#5	1-#3	@10	
SB2	8x8	2-#4	2-#4	1-#3	@3	EXTEND T&B REIN. MIN. TENSION DEVELOPMENT LENGTH INTO SLAB
SB3	8x24	2-#7	2-#5	1-#3	@10	
SB4	18x20	2-#7	2-#5	1-#4	@8	
SB5	18x20	2-#7	2-#5	1-#4	@8	
SB6	12x24	3-#7	2-#5	1-#4	@10	
SB7	10x30	2-#9	2-#5	1-#4	@12	#4@10 SKIN REIN.
SB8	12x40	2-#9	2-#5	1-#4	@12	#4@10 SKIN REIN.
SB9	60x64	4-#11	4-#11	2-#4	@12	SLOPED TIE-BEAM. SEE S-500, S-505 & S-510 FOR ELEVATION, SLOPE INFORMATION, ETC. LONGITUDINAL REIN. TO BE GR. 97, ADDL 16-#11 IN 4 LAYERS BETWEEN T&B REIN. SEE BEAM SCHEDULE NOTE 1.
SB10	12x20	3-#7	2-#7	1-#4	@6	



- NOTES:**
- SPLICES TO BE ACHIEVED USING MECHANICAL COUPLERS AND THREADED REBAR. BARS TO BE TERMINATED USING WSP APPROVED TERMINATIONS AT ENDS. LOCATION OF THE COUPLERS TO BE STAGGERED 3'-0" ON PLAN.
 - WHERE BARS ARE DETAIL IN MULTIPLE LAYERS, THE QUANTITY OF BARS INDICATED IS THE TOTAL NUMBER OF BARS NOT THE NUMBER OF BARS IN EACH LAYER.



NO. ISSUE SET **REV DATE**

1	100% SD ISSUE	1	02-15-13
2	REVISED SD ISSUE	2	05-06-13
3	REVISED SD ISSUE	3	08-21-13
4	FINAL SD ISSUE	4	11-28-13
5	REVISED SD	5	08-22-14
6	REVISED AS NOTED	6	09-29-14
7	SUPERSTRUCTURE EARLY BID	7	11-17-14
8	SET		
9	DESIGN DEVELOPMENT SET	8	12-22-14
10	NYCT SUBMISSION	9	12-23-14
11	UPDATED DOOR SET	10	01-20-15
12	70% CD	11	04-27-15
13	80% CD	12	07-02-15
14	90% PARTIAL CD ISSUE - FLOORS	13	09-03-15
15	95% CD	14	11-24-15
16	PAA #2	15	01-28-16

KEY PLAN

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DATE OF PRINT
12/26/2016 5:39:27 PM

DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
5TH FLOOR FRAMING PLAN

DRAWING NO.
S-050.01

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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	70% CD	1 04-27-15
2	80% CD	2 07-02-15
3	80% PARTIAL CD ISSUE - FLOORS	3 09-03-15
4	90% CD	4 11-24-15
5	95% CD	5 01-26-16
6	PAA #2	6 01-26-16
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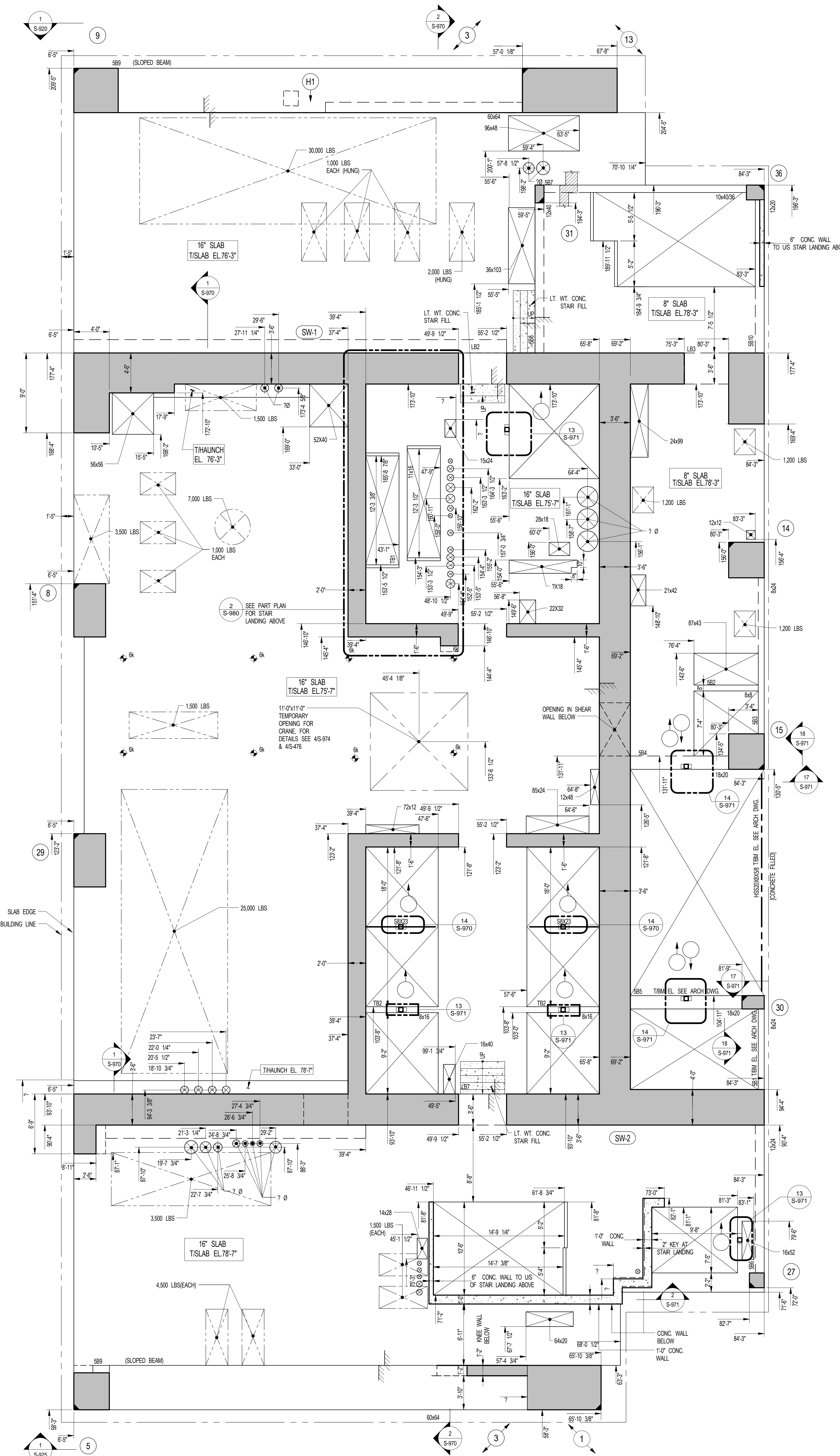
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PROJECT NUMBER
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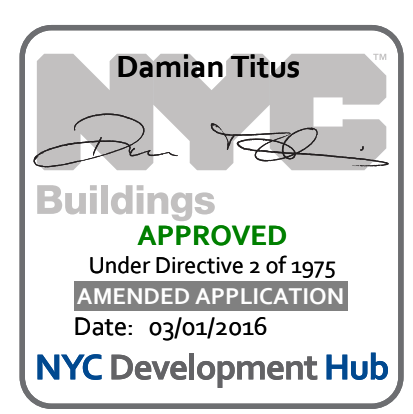
TITLE
5TH FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.
S-059.00



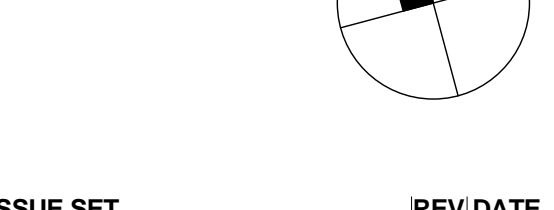
1 5TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 75'-7" U.O.N. ON PLAN THIS []
2. SLAB TO BE 4" THICK U.O.N. THIS [] ON PLAN
3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN



NYC Development Hub

NO	ISSUE SET	REV DATE
1	100% SD ISSUE	1 02-15-13
2	REVISED SD ISSUE	2 05-06-13
3	REVISED SD ISSUE	3 08-21-13
4	FINAL SD ISSUE	4 11-28-13
5	REVISED SD	5 08-22-14
6	REVISED AS NOTED	6 09-29-14
7	SUPERSTRUCTURE EARLY BID	7 11-17-14
8	SET	
9	DESIGN DEVELOPMENT SET	8 12-22-14
10	NYCT SUBMISSION	9 12-23-14
11	UPDATED DOOR SET	10 01-20-15
12	70% CD	11 04-27-15
13	80% CD	12 07-02-15
14	90% PARTIAL CD ISSUE - FLOORS	13 09-03-15
15	SC-12	
16	95% CD	14 11-24-15
17	PAA #2	15 01-28-16
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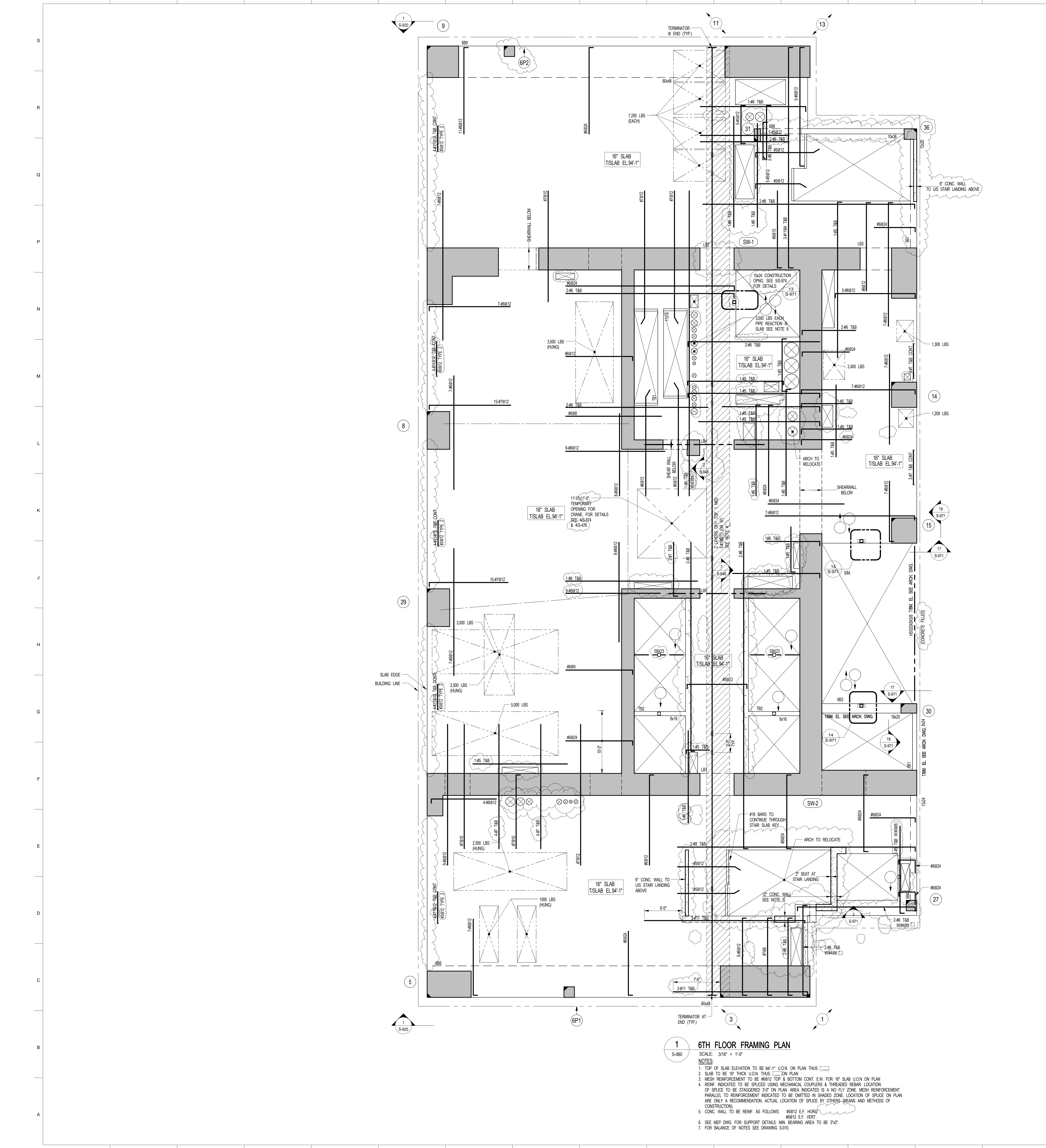
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2	REVISED SD ISSUE	2 05-06-13
3	REVISED SD ISSUE	3 08-21-13
4	FINAL SD ISSUE	4 11-28-13
5	REVISED SD	5 08-22-14
6	REVISED AS NOTED	6 09-29-14
7	SUPERSTRUCTURE EARLY BID	7 11-17-14
8	SET	
9	DESIGN DEVELOPMENT SET	8 12-22-14
10	NYCT SUBMISSION	9 12-23-14
11	UPDATED DOOR SET	10 01-20-15
12	70% CD	11 04-27-15
13	80% CD	12 07-02-15
14	90% PARTIAL CD ISSUE - FLOORS	13 09-03-15
15	SC-12	
16	95% CD	14 11-24-15
17	PAA #2	15 01-28-16
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NO	ISSUE SET	REV DATE
1	100% SD ISSUE	1 02-15-13
2	REVISED SD ISSUE	2 05-06-13
3	REVISED SD ISSUE	3 08-21-13
4	FINAL SD ISSUE	4 11-28-13
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11	UPDATED DOOR SET	10 01-20-15
12	70% CD	11 04-27-15
13	80% CD	12 07-02-15
14	90% PARTIAL CD ISSUE - FLOORS	13 09-03-15
15	SC-12	
16	95% CD	14 11-24-15
17	PAA #2	15 01-28-16
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NO	ISSUE SET	REV DATE
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11	UPDATED DOOR SET	10 01-20-15
12	70% CD	11 04-27-15
13	80% CD	12 07-02-15
14	90% PARTIAL CD ISSUE - FLOORS	13 09-03-15
15	SC-12	
16	95% CD	14 11-24-15
17	PAA #2	15 01-28-16
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1 6TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"
S-060

- NOTES:**
- TOP OF SLAB ELEVATION TO BE 94'-1" U.O.N. ON PLAN THIS [] ON PLAN
 - SLAB TO BE 16" THICK U.O.N. THIS [] ON PLAN
 - MESH REINFORCEMENT TO BE #8@12 TOP & BOTTOM CONT. CH. FOR 16" SLAB U.O.N. ON PLAN
 - REIN. INDICATED TO BE SPLICED USING MECHANICAL COUPLERS & THREADED REBAR. LOCATION OF SPLICE TO BE STAGGERED 3'-0" ON PLAN. AREA INDICATED IS A NO FLY ZONE. MESH REINFORCEMENT PARALLEL TO REINFORCEMENT INDICATED TO BE OMITTED IN SHADDED ZONE. LOCATION OF SPLICE ON PLAN ARE ONLY A RECOMMENDATION. ACTUAL LOCATION OF SPLICE BY OTHER MEANS AND METHODS OF CONSTRUCTION.
 - CONC. WALL TO BE REIN. AS FOLLOWS: #5@12 E.F. HORIZ. #8@12 E.F. VERT.
 - SEE MEP DWG. FOR SUPPORT DETAILS. MIN. BEARING AREA TO BE 3'x3'.
 - FOR BALANCE OF NOTES SEE DRAWING S-010.

BEAM MARK	SIZE (WxD) (IN)	REINFORCEMENT		STIRRUPS		REMARKS
		BOTTOM	TOP	ADDL. BARS AT SUPPORT	W TYPE	
		CONTINUOUS	CONTINUOUS		SIZE	
B61	24x24	2-#5	2-#5	1	#3	@10
B63	18x20	2-#7	2-#5	1	#4	@8
B64	12x24	3-#7	2-#5	2	#4	@12
B65	60x48	4-#11	4-#11	2	#4	@12
B67	12x20	3-#7	2-#7	1	#4	@8
B68	18x36	2-#9	2-#6	1	#4	@12
B69	60x48	4-#11	4-#11	2	#4	@10

NOTES:

- SPLICES TO BE ACHIEVED USING MECHANICAL COUPLERS AND THREADED REBARS. BARS TO BE TERMINATED USING WSP APPROVED TERMINATORS AT ENDS. LOCATION OF THE COUPLERS TO BE STAGGERED 3'-0" ON PLAN.
- WHERE BARS ARE DETAILED IN MULTIPLE LAYERS, THE QUANTITY OF BARS INDICATED IS THE TOTAL NUMBER OF BARS NOT THE NUMBER OF BARS IN EACH LAYER.

STIRRUP TYPES

TYPE 1 **TYPE 2**

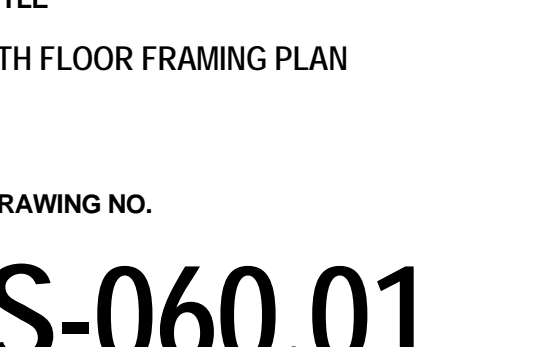
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DRAWING SCALE:
As indicated

PROJECT NUMBER:
6TH FLOOR FRAMING PLAN



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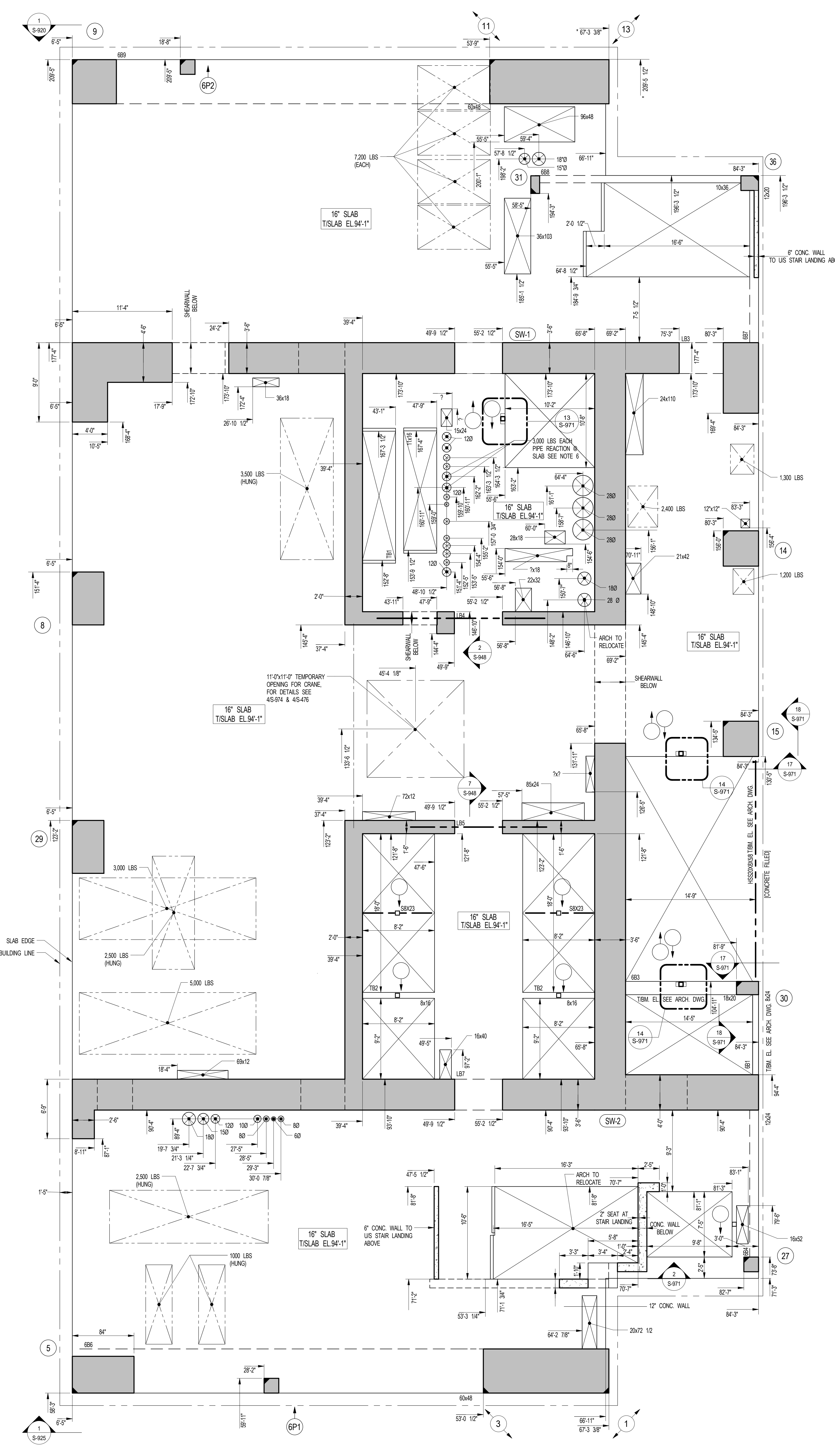
SHEET NOTES:

KEY PLAN

NO. ISSUE SET REV DATE

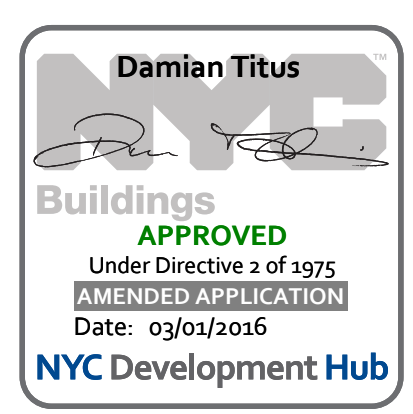
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2	80% CD	2	07-02-15
3	80% PARTIAL CD ISSUE - FLOORS	3	09-03-15
4	90% CD	4	11-24-15
5	95% CD	5	01-26-16
6	PAA #2	5	01-26-16
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KEY PLAN



1 6TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 94'-1" U.O.N. ON PLAN THIS []
2. SLAB TO BE 16" THICK U.O.N. THIS [] ON PLAN
3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN



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DATE OF PRINT
1/26/2016 5:26:50 PM

DRAWING SCALE
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PROJECT NUMBER

TITLE
6TH FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.
S-069.00

15 HUDSON YARDS
a.k.a. 553 W 30TH STREET,
NEW YORK, NY.

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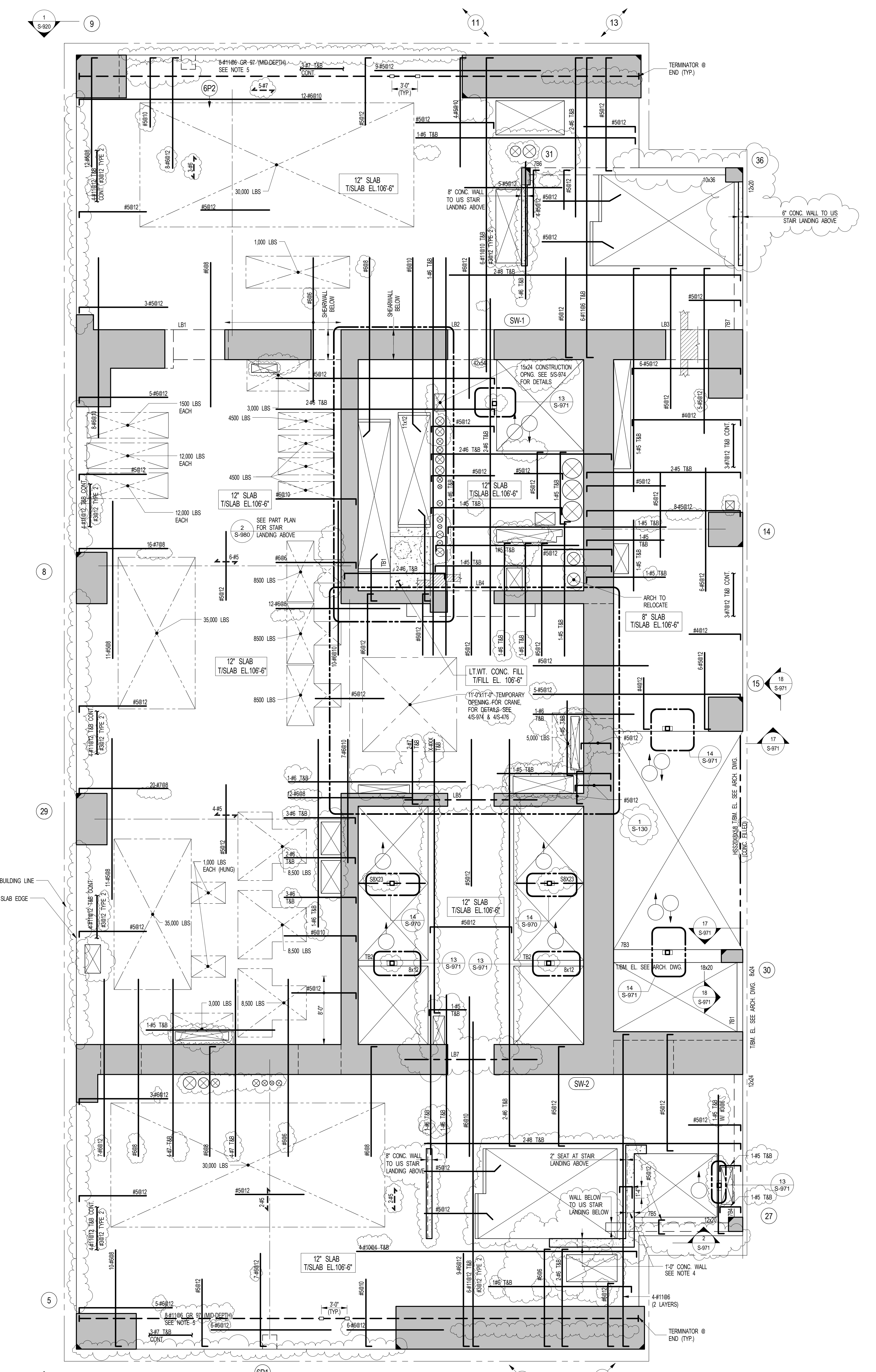
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T: 212-260-2270

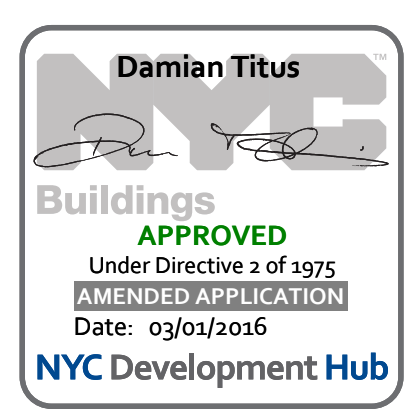


7TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"
NOTES:
1. TOP OF SLAB ELEVATION TO BE 106'-6" U.O.N. ON PLAN THIS [] ON PLAN
2. SLAB TO BE 12" THICK U.O.N. THIS [] ON PLAN
3. MESH REINFORCEMENT TO BE #5@12" BOTTOM CONT. EW FOR 12" SLAB U.O.N. ON PLAN
4. CONC. WALL TO BE REINF. AS FOLLOWS: #5@12" E.F. HORIZ #5@12" VERT
5. REINF. INDICATED TO BE SPICED USING MECHANICAL COUPLERS AND THREADED REBAR. LOCATION OF SPICE TO BE STAGGERED 24" ON PLAN. LOCATION OF SPICE INDICATED ON PLAN IS ONLY A RECOMMENDATION. ACTUAL LOCATION OF SPICE BY OTHERS (MEANS AND METHODS OF CONSTRUCTION)
6. FOR BALANCE OF NOTES SEE DRAWING S-070.

7TH FL. BM SCHEDULE

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT		STIRRUPS		REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TOP ADD'L BARS AT SUPPORT	TYPE	
7B1	18x24	2-#5	2-#5		#4	#10
7B3	18x20	2-#7	2-#5		#4	#8
7B4	12x24	3-#7	2-#5		#4	#10
7B5	12x20	2-#7	2-#5		#4	#8
7B6	12x20	2-#5	2-#5		#4	#8
7B7	12x20	3-#7	2-#7		#4	#8

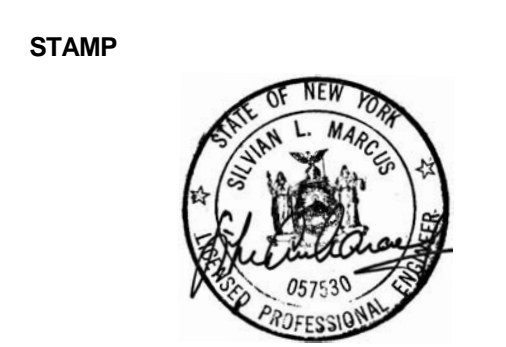
TYPE 1
STIRRUP TYPES
NTS



KEY PLAN

NO. ISSUE SET

NO.	ISSUE SET	REV DATE
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2	REVISED SD ISSUE	2 05-06-13
3	REVISED SD ISSUE	3 08-21-13
4	FINAL SD ISSUE	4 11-28-13
5	REVISED SD	5 08-22-14
6	REVISED AS NOTED	6 09-29-14
7	SUPERSTRUCTURE EARLY BID SET	7 11-17-14
8	SET	
9	DESIGN DEVELOPMENT SET	8 12-22-14
10	NYCT SUBMISSION	9 12-23-14
11	UPDATED DOOR SET	10 01-20-15
12	70% CD	11 04-27-15
13	80% CD	12 07-02-15
14	90% PARTIAL CD ISSUE - FLOORS	13 09-03-15
15	95% CD	14 11-24-15
16	PAA #2	15 01-28-16



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DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
7TH FLOOR FRAMING PLAN

DRAWING NO.
S-070.01

OWNER:
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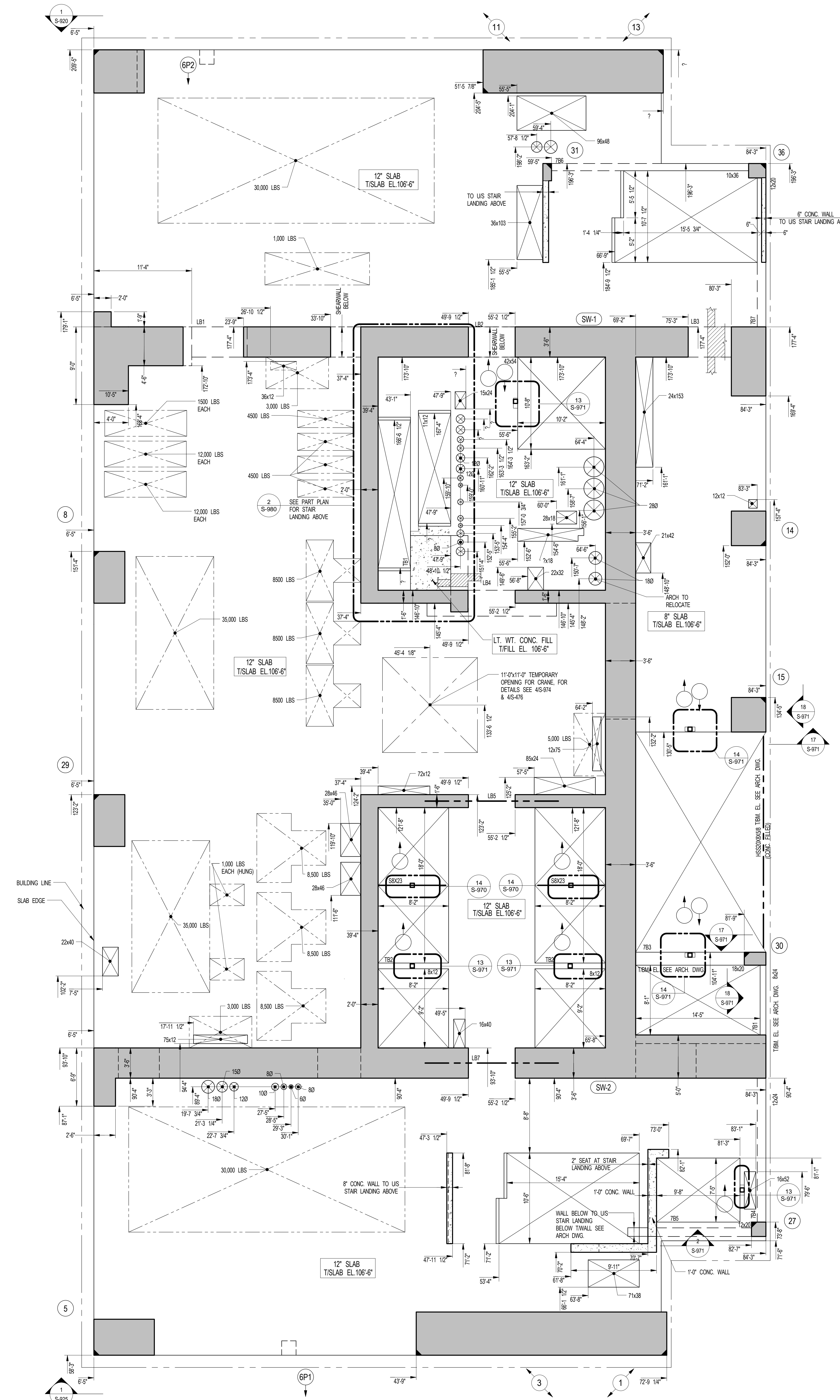
EXTERIOR WALL CONSULTANT:
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New York, NY 10003
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1 7TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES**
- TOP OF SLAB ELEVATION TO BE 106'-6" U.O.N. ON PLAN THIS []
 - SLAB TO BE 12" THICK U.O.N. THIS [] ON PLAN
 - FOR SOURCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

SHEET NOTES:

NO	ISSUE SET	REV DATE
1	70% CD	1 04-27-15
2	80% CD	2 07-02-15
3	80% PARTIAL CD ISSUE - FLOORS	3 09-03-15
4	90% CD	4 11-24-15
5	PAA #2	5 01-26-16
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KEY PLAN

KEY PLAN

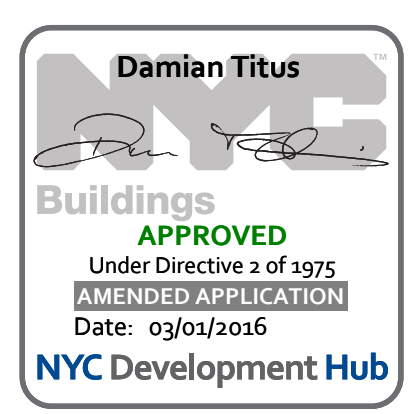
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DRAWING SCALE:
As indicated

PROJECT NUMBER:



TITLE:
7TH FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.:
S-079.00

NO	ISSUE SET	REV DATE
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2	REVISED SD ISSUE	2 05-06-13
3	REVISED SD ISSUE	3 08-21-13
4	FINAL SD ISSUE	4 11-26-13
5	REVISED SD	5 08-22-14
6	REVISED AS NOTED	6 09-29-14
7	SUPERSTRUCTURE EARLY BID	7 11-17-14
8	SET	
9	DESIGN DEVELOPMENT SET	8 12-22-14
10	NYCT SUBMISSION	9 12-23-14
11	UPDATED DOOR SET	10 01-20-15
12	70%CD	11 04-27-15
13	80% CD	12 07-02-15
14	SC-12	13 09-03-15
15	95% CD	14 11-24-15
16	PAA #2	15 01-28-16
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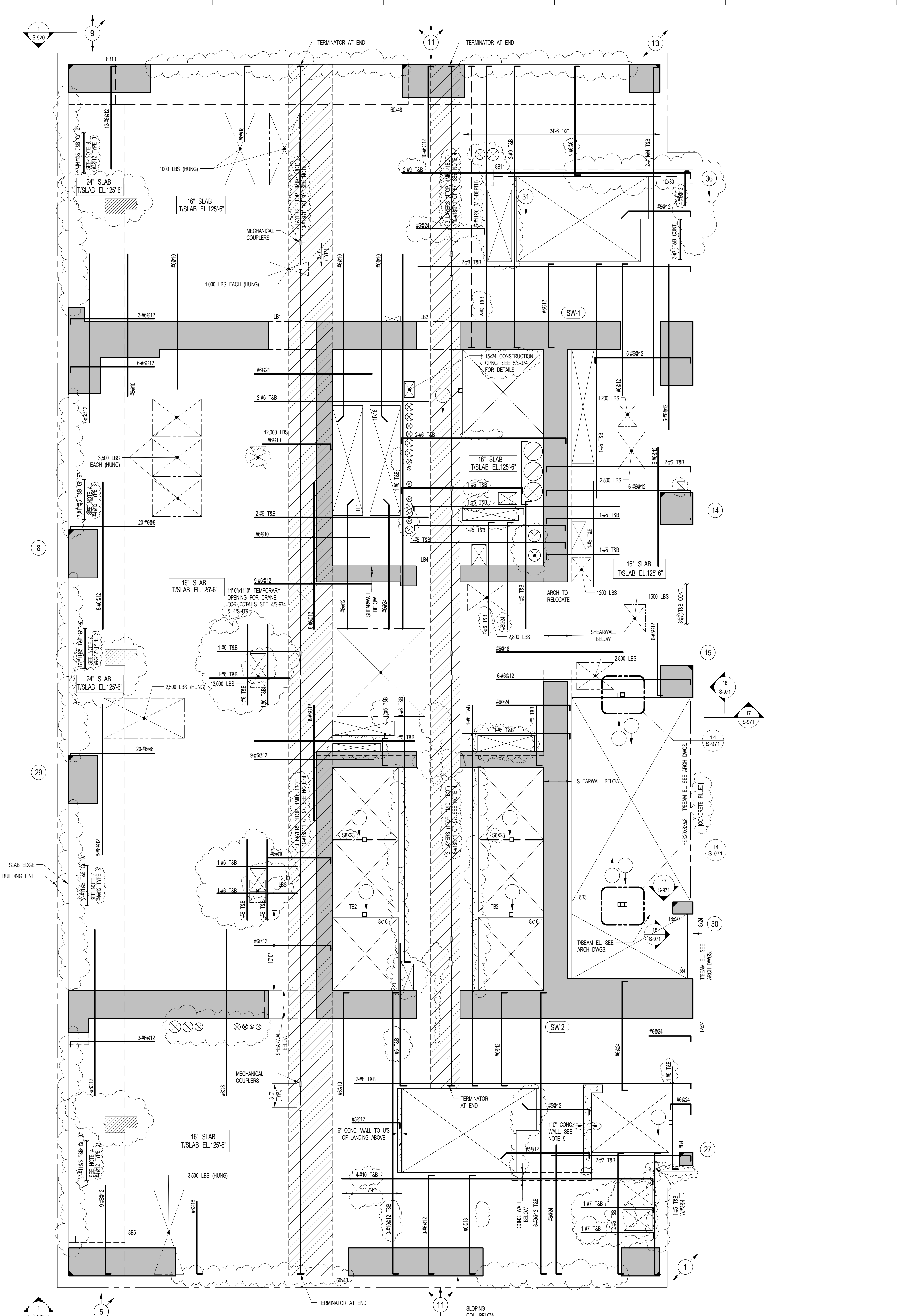
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12/26/2016 5:39:44 PM

DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
8TH FLOOR FRAMING PLAN

DRAWING NO.
S-080.01



1
S-080
8TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
- TOP OF SLAB ELEVATION TO BE 125'-0" U.O.N. ON PLAN THIS []
 - SLAB TO BE 16" THICK U.O.N. THIS [] ON PLAN
 - MESH REINFORCEMENT TO BE #8@12 TOP & BOTTOM CONT. EW. FOR 16" SLAB U.O.N. ON PLAN
 - REINFORCEMENT INDICATED TO BE SPLICED USING MECHANICAL COUPLERS AND TYPED REBAR. LOCATION OF SPLICES TO BE STAGGERED 3'-0" ON PLAN AREA INDICATED IS A NO FLY ZONE. MESH REINFORCEMENT PARALLEL TO REINFORCEMENT INDICATED TO BE OMITTED AT SHADDED ZONE. LOCATION OF SPLICES ON PLAN ARE ONLY A RECOMMENDATION. ACTUAL LOCATION OF SPLICE BY OTHERS (MEANS AND METHODS OF CONSTRUCTION) MESH REINFORCEMENT WITH REIN. TO BE OMITTED.
 - CONCRETE WALL REINFORCEMENT AS FOLLOWS: #8@12 E.F. HORIZ. #8@12 E.F. VERT.
 - FOR BALANCE OF NOTES SEE DRAWING S-010.

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT			STIRRUPS		REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TOP ADD'L BARS AT SUPPORT	TYPE	SIZE SPACING	
8B1	8x24	2-#5	2-#5		1	#3 @10	
8B3	18x30	2-#7	2-#5		1	#4 @8	
8B4	12x24	3-#7	2-#5		1	#4 @10	
8B6	8x48	6-#11	6-#11		3	#4 @12	ALL LONGITUDINAL REINF. TO BE GR. 97' ADJL 24-#11 IN 4 LAYERS BETWEEN TAB REINF. SEE BEAM SCHEDULE NOTE 1
8B10	6x48	6-#11	6-#11		3	#4 @12	ALL LONGITUDINAL REINF. TO BE GR. 97' ADJL 24-#11 IN 4 LAYERS BETWEEN TAB REINF. SEE BEAM SCHEDULE NOTE 1
8B11	10x30	3-#7	2-#5		1	#4 @8	

NOTES:

- SPLICES TO BE ACHIEVED USING MECHANICAL COUPLERS AND TYPED REBAR. LOCATION OF SPLICES TO BE STAGGERED 3'-0" ON PLAN AREA INDICATED IS A NO FLY ZONE. MESH REINFORCEMENT PARALLEL TO REINFORCEMENT INDICATED TO BE OMITTED AT SHADDED ZONE. LOCATION OF SPLICES ON PLAN ARE ONLY A RECOMMENDATION. ACTUAL LOCATION OF SPLICE BY OTHERS (MEANS AND METHODS OF CONSTRUCTION) MESH REINFORCEMENT WITH REIN. TO BE OMITTED.
- CONCRETE WALL REINFORCEMENT AS FOLLOWS: #8@12 E.F. HORIZ. #8@12 E.F. VERT.

KEY: [] INDICATES NO FLY ZONE

STIRRUP TYPES: TYPE 1, TYPE 3

Damian Titus
Buildings
APPROVED
Under Executive Order 2 of 2015
LICENSED APPLICATION
Date: 09/30/2016
NYC Development Hub

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Related Companies
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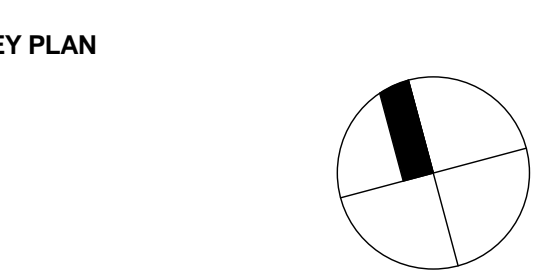
LEED CONSULTANT:
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SHEET NOTES:

NO	ISSUE SET	REV DATE
1	70% CD	1 04-27-15
2	80% CD	2 07-02-15
3	80% PARTIAL CD ISSUE - FLOORS	3 09-03-15
4	90% CD	4 11-24-15
5	95% CD	5 01-26-16
6	PAA #2	
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2	80% CD	2 07-02-15
3	80% PARTIAL CD ISSUE - FLOORS	3 09-03-15
4	90% CD	4 11-24-15
5	95% CD	5 01-26-16
6	PAA #2	
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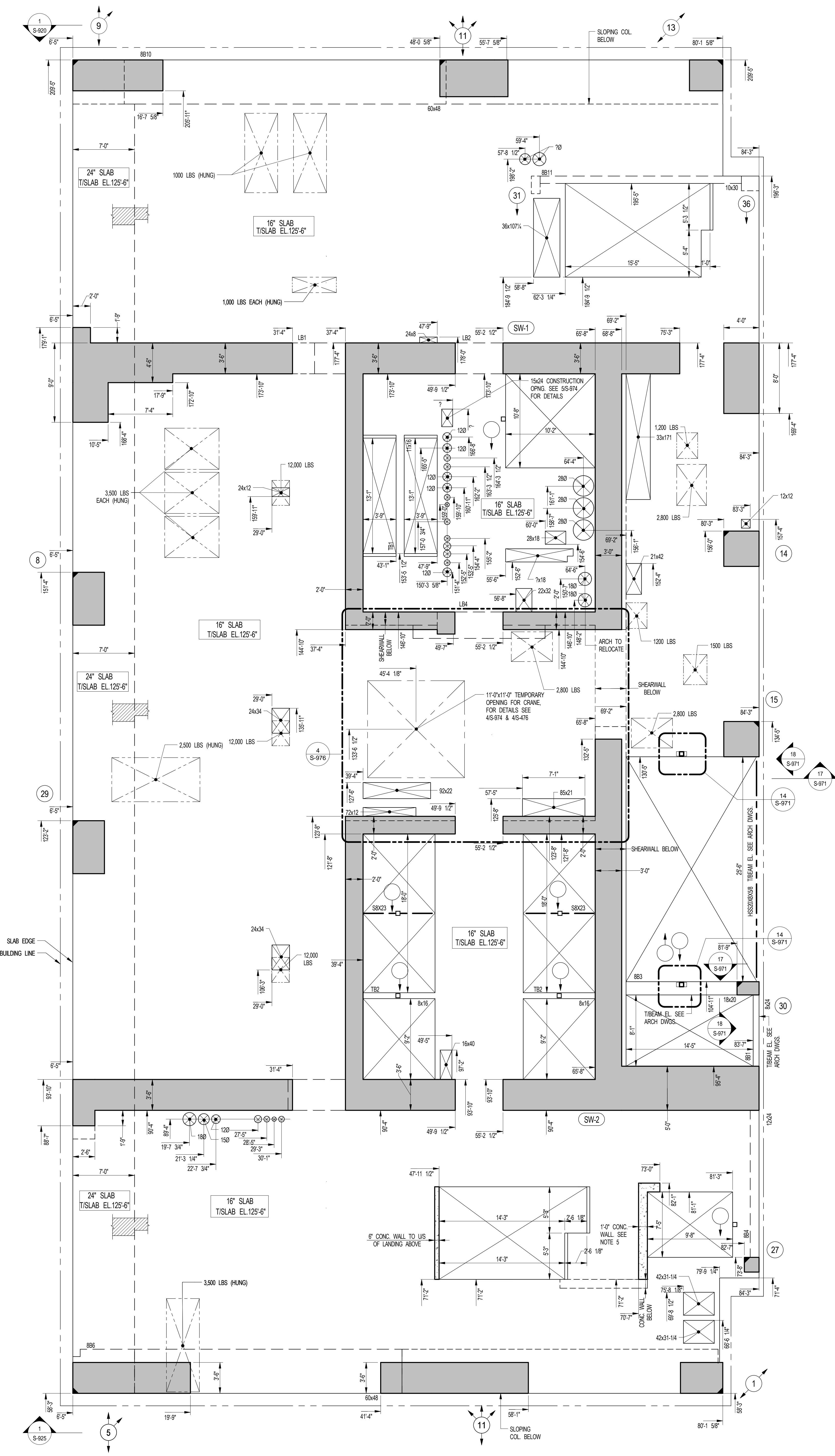
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DRAWING SCALE
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PROJECT NUMBER

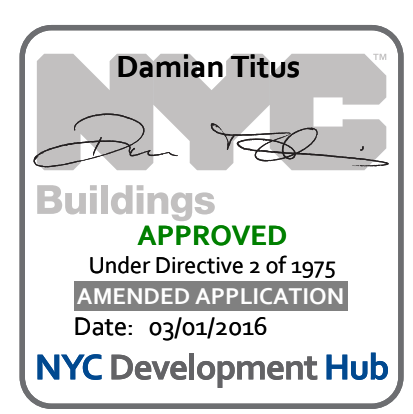
TITLE
8TH FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.
S-089.00



1 8TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
- TOP OF SLAB ELEVATION TO BE 125'-6" U.O.N. ON PLAN THIS []
 - SLAB TO BE 16" THICK U.O.N. THIS [] ON PLAN
 - FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.



DRAWING NO.
S-089.00

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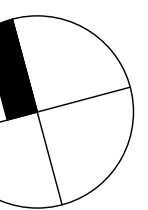
LEED CONSULTANT:
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350 Park Avenue South, 15th Floor
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SHEET NOTES:

KEY PLAN



NO	ISSUE SET	REV DATE
1	100% SD ISSUE	1 02-15-13
2	REVISED SD ISSUE	2 05-06-13
3	REVISED SD ISSUE	3 08-21-13
4	FINAL SD ISSUE	4 11-28-13
5	REVISED SD	5 08-22-14
6	REVISED AS NOTED	6 09-29-14
7	SUPERSTRUCTURE EARLY BID SET	7 11-17-14
8	SET	
9	DESIGN DEVELOPMENT SET	8 12-22-14
10	NYCT SUBMISSION	9 12-23-14
11	UPDATED DOOR SET	10 01-20-15
12	70% CD	11 04-27-15
13	80% CD	12 07-02-15
14	80% PARTIAL CD ISSUE - FLOORS	13 09-03-15
15	85% CD	
16	SC-12	
17	SC-12	
18	PAA #2	14 11-24-15
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STAMP



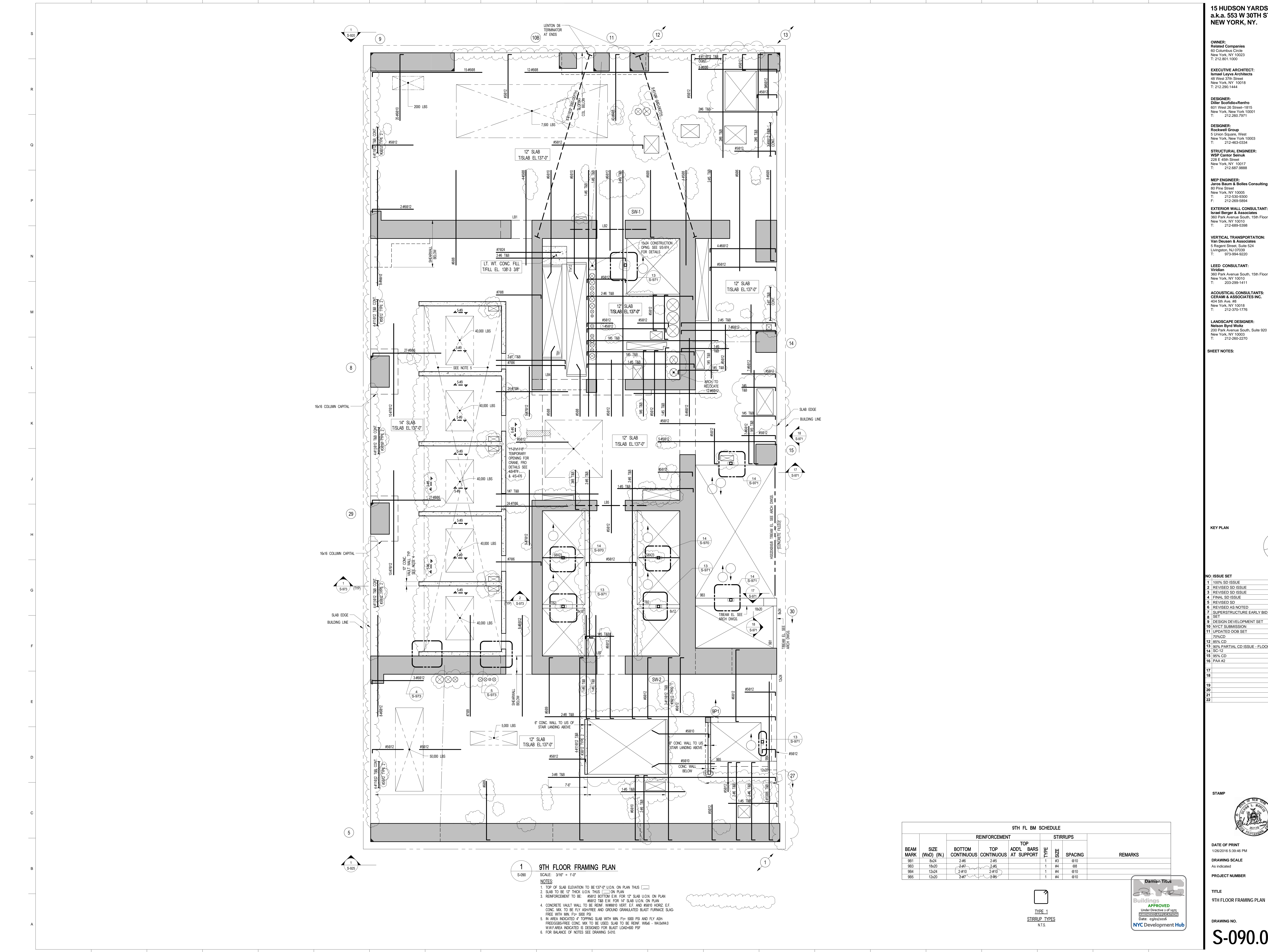
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DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
9TH FLOOR FRAMING PLAN

DRAWING NO.
S-090.01

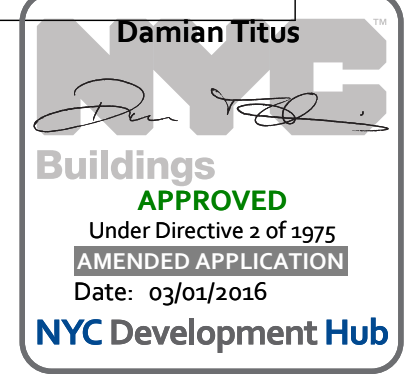


1 9TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

- NOTES
- TOP OF SLAB ELEVATION TO BE 137'-0" UON ON PLAN THIS [] ON PLAN
 - SLAB TO BE 12" THICK UON THIS [] ON PLAN
 - REINFORCEMENT TO BE #5@12 BOTTOM EW FOR 12" SLAB UON ON PLAN
 - CONCRETE VAULT WALL TO BE REINF W#8@10 VERT. EF. AND #5@10 HORIZ. EF. CONG. MIX. TO BE FLY ASH-FREE AND GROUND GRANULATED BLAST FURNACE SLAG-FREE WITH MIN. F_c = 5000 PSI
 - IN AREA INDICATED 4" TOPPING SLAB WITH MIN. F_c = 5000 PSI AND FLY ASH-FREE CONG. MIX. TO BE USED. SLAB TO BE REINF. W#6 - 1" DIA@10
 - W/F AREA INDICATED IS DESIGNED FOR BLAST LOAD-600 PSF
 - FOR BALANCE OF NOTES SEE DRAWING S-091.

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT			STIRRUPS			REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	ADD'L BARS AT SUPPORT	TYPE	SIZE	SPACING	
9B1	8x24	2-#6	2-#6		#3	@10		
9B3	18x24	2-#7	2-#6		#4	@8		
9B4	12x24	2-#4	2-#4		#4	@10		
9B5	12x20	2-#4	2-#6		#4	@10		

TYPE 1
STIRRUP TYPES
N.T.S.



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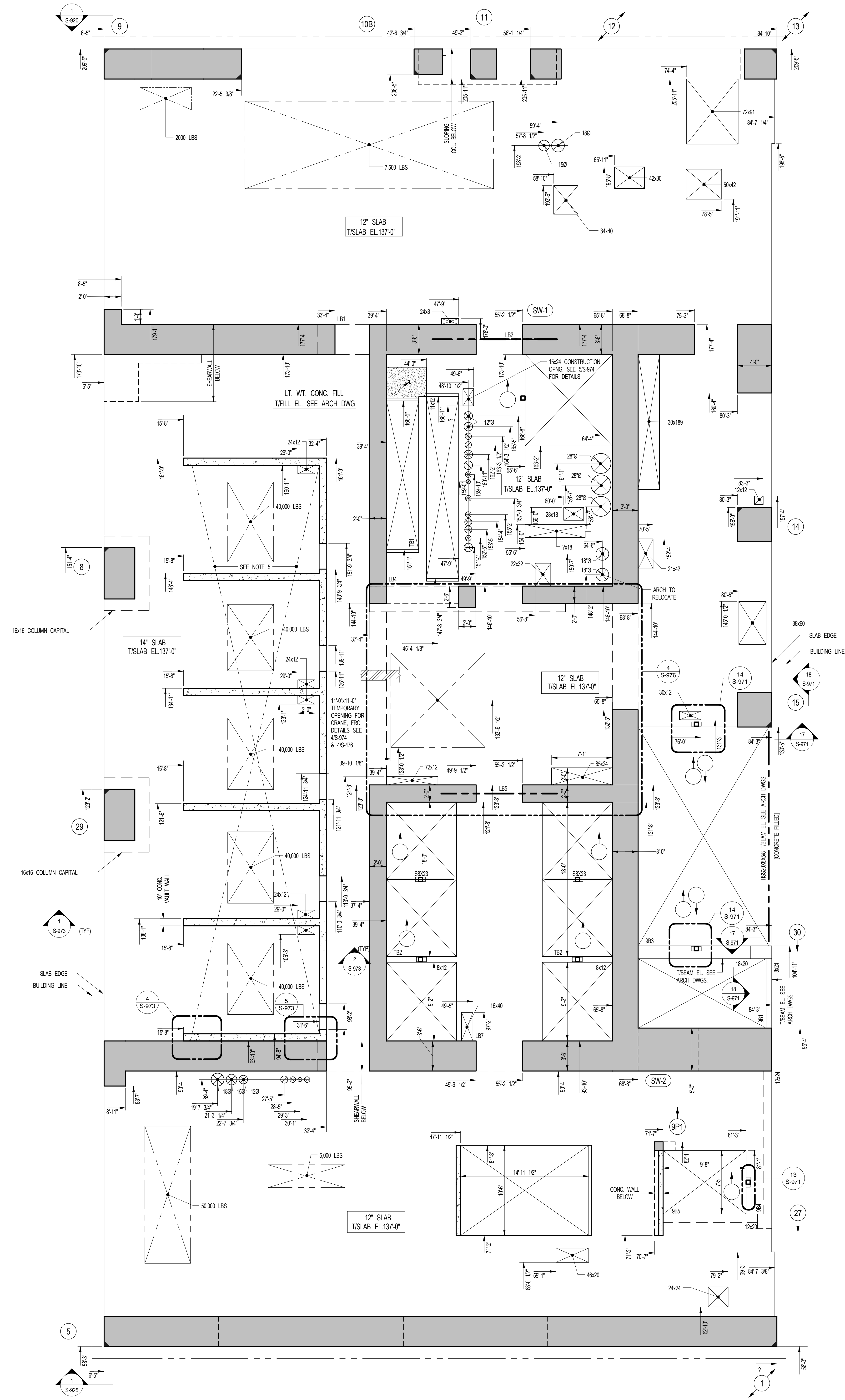
EXTERIOR WALL CONSULTANT:
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1 9TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 137'-0" U.O.N. ON PLAN THUS [Symbol]
2. SLAB TO BE 12" THICK U.O.N. THUS [Symbol] ON PLAN
3. FOR BALANCE OF NOTES SEE DRAWING CORRESPONDING FRAMING PLAN.

SHEET NOTES:

KEY PLAN

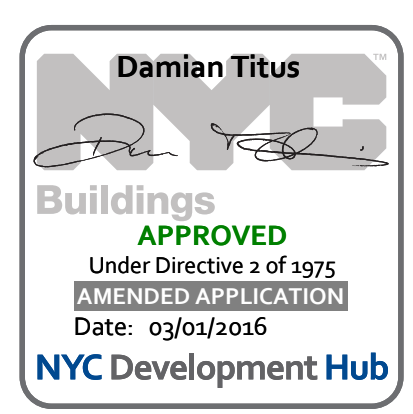
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2	80% CD	2 07-02-15
3	80% PARTIAL CD ISSUE - FLOORS	3 09-03-15
4	90% CD	4 11-24-15
5	95% CD	5 01-26-16
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DATE OF PRINT
1/26/2016 5:26:53 PM

DRAWING SCALE
As indicated

PROJECT NUMBER



TITLE
9TH FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.
S-099.00

OWNER:
 Related Companies
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LANDSCAPE DESIGNER:
 Nelson Byrd Woltz
 200 Park Avenue South, Suite 920
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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	100% SD ISSUE	1 02-15-13
2	REVISED SD ISSUE	2 05-06-13
3	REVISED SD ISSUE	3 08-21-13
4	FINAL SD ISSUE	4 11-28-13
5	REVISED SD	5 08-22-14
6	REVISED AS NOTED	6 09-29-14
7	SUPERSTRUCTURE EARLY BID	7 11-17-14
8	SET	
9	DESIGN DEVELOPMENT SET	8 12-22-14
10	NYCT SUBMISSION	9 12-23-14
11	UPDATED DOOR SET	10 01-20-15
12	70% CD	11 04-27-15
13	80% CD	12 07-02-15
14	90% PARTIAL CD ISSUE - FLOORS	13 09-03-15
15	95% CD	
16	SC-12	
17	PAA #2	14 11-24-15
18		15 01-28-16



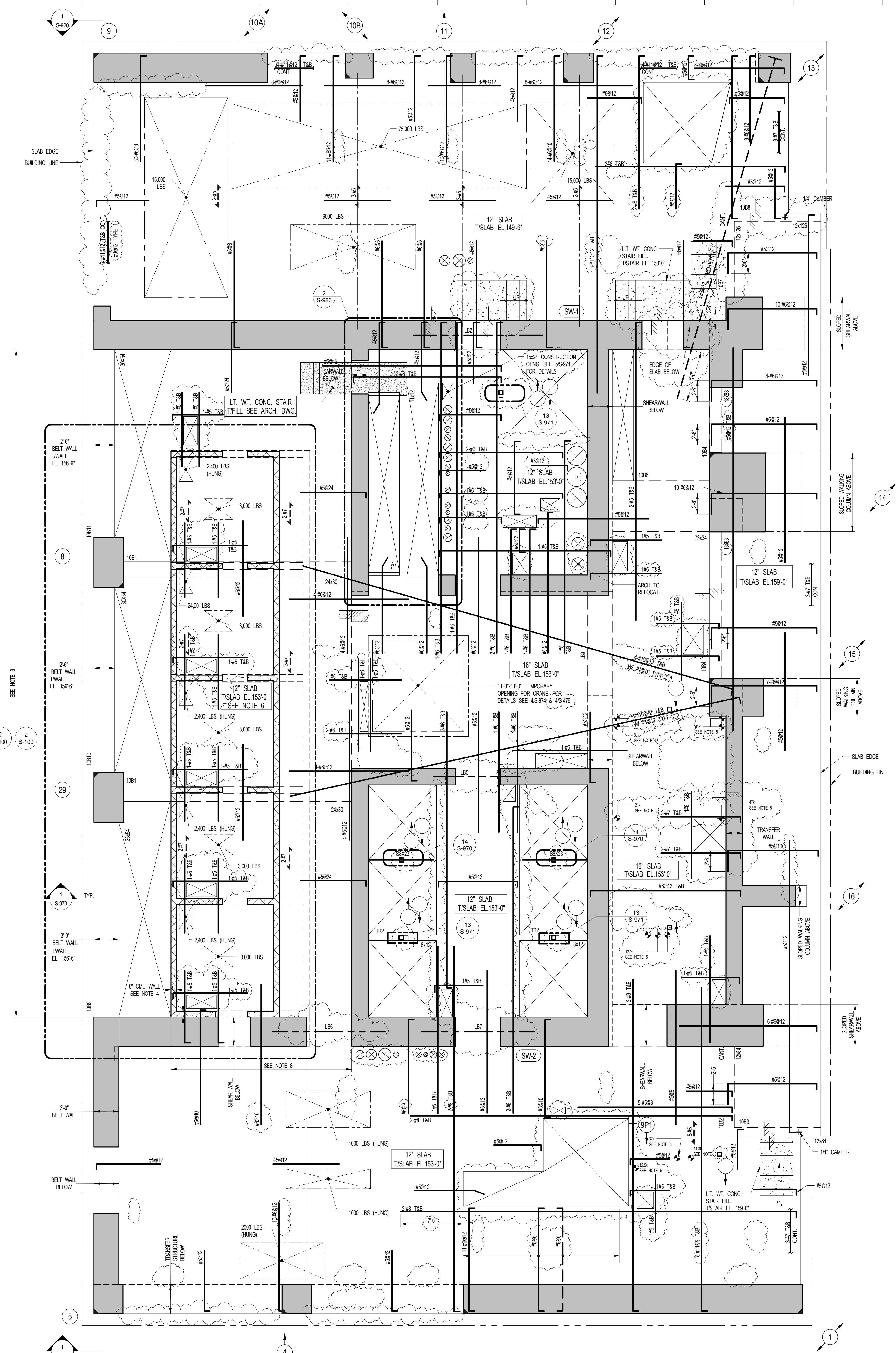
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DRAWING SCALE
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PROJECT NUMBER

TITLE
 10TH FLOOR FRAMING PLAN

DRAWING NO.
 S-100.01



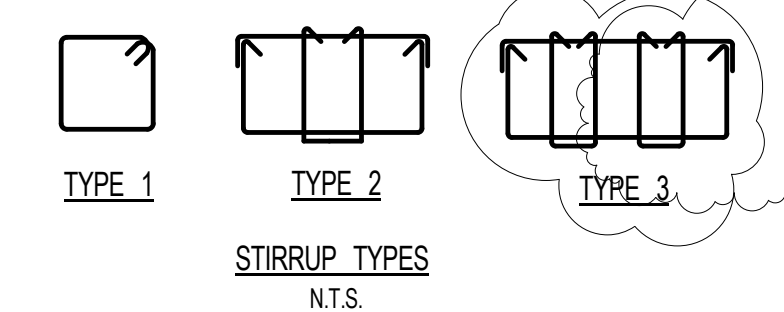
1 10TH FLOOR FRAMING PLAN
 SCALE: 3/16" = 1'-0"

NOTES:
 1. TOP OF SLAB ELEVATION TO BE 153'-0" U.O.N. ON PLAN THIS [] ON PLAN.
 2. SLAB TO BE 12" THICK U.O.N. THIS [] ON PLAN.
 3. REINFORCEMENT TO BE #5@12 BOTTOM E.W. FOR 12" SLAB U.O.N. ON PLAN & #5@12 TOP E.W. FOR 12" SLAB U.O.N. ON PLAN.
 4. 8" CMU WALL FULLY GROUTED AND REINFORCED WITH #5@8 MIN. P.W. 1500 P.S. WITH TYPE III REBAR FOR BALANCE OF INFORMATION SEE S-300 SERIES.
 5. ENR REACTIONS ARE ULTIMATE LOADS AS SHOWN ON PLAN AND PER VT DRAWING VT-101 & VT-102 DATED 08-15-2014.
 6. INDICATES 12" SLAB TO BE REINFORCED WITH #5@12 TOP AND BOTTOM CONT. E.W. CONC. MIX. TO BE FLY ASH/RES-0285 FREE WITH MIN. Fc= 6000 P.S. AREA DESIGNED FOR UPLIFT BLAST LOADS 100 P.S.
 7. FOR BALANCE OF NOTES SEE DRAWING S-100.

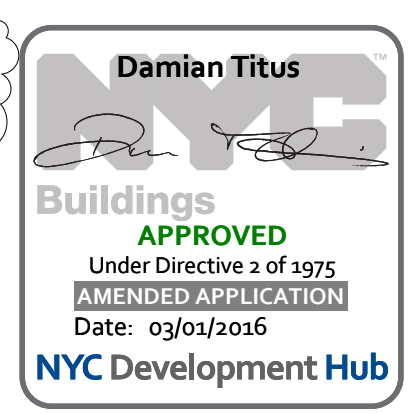
2 ROOF OVER NETWORK PROTECTOR ROOM FRAMING PLAN
 SCALE: 3/16" = 1'-0"

NOTES:
 1. TOP OF SLAB ELEVATION TO BE 164'-0" U.O.N. ON PLAN THIS [] ON PLAN.
 2. TOP SLAB TO BE FLY ASH/RES-0285 FREE CONC. MIX. WITH Fc= 6000 P.S.
 3. BOTTOM REINFORCEMENT TO BE #4@12 CONT. E.W. FOR 8" SLAB SEE PLAN FOR ADD. REIN.

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT			STIRRUPS		REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	ADD'L TOP AT SUPPORT	#	SPACING	
10B1	24x30	12#11 (2 LAYERS)	8#11 (3 LAYERS)		2	#5 @ 8"	TOP AND BOTTOM REIN. TO BE DEVELOPED & MIN. TENSION DEVELOPMENT LENGTH INTO COLUMNS AND SHEARWALLS
10B2	12x84	2#6	2#10		1	#5 @ 8"	#4@10 SKIN REIN. TOP & BOTTOM REIN. TO BE DEVELOPED
10B3	12x84	2#6	2#6		1	#4 @ 10"	#4@10 SKIN REIN.
10B4	18x88	2#11	2#11		1	#4 @ 12"	ADD'L 14#11 IN 7' LAYERS BETWEEN TAB REIN.
10B6	73x34	8#11	8#11		3	#4 @ 12"	#4@10 SKIN REIN. TERMINATORS TO BE USED AT LONGITUDINAL BAR ENDS
10B7	12x126	2#6	2#10		1	#5 @ 8"	#4@10 SKIN REIN. TOP & BOTTOM REIN. TO BE DEVELOPED
10B8	12x126	2#7	2#7		1	#4 @ 8"	#4@10 SKIN REIN.
10B9	30x54	15#11 (2 LAYERS)	15#11 (2 LAYERS)		1	#4 @ 8"	6#5 E.F. FOR SKIN REINFORCEMENT
10B10	30x54	16#11 (2 LAYERS)	16#11 (2 LAYERS)		1	#4 @ 8"	6#5 E.F. FOR SKIN REINFORCEMENT
10B11	30x54	16#11 (2 LAYERS)	16#11 (2 LAYERS)		1	#4 @ 8"	6#5 E.F. FOR SKIN REINFORCEMENT



NOTES:
 1. WHERE BARS ARE DETAILED IN MULTIPLE LAYERS, THE QUANTITY OF BARS INDICATED IS THE TOTAL NUMBER OF BARS NOT THE NUMBER OF BARS IN EACH LAYER.



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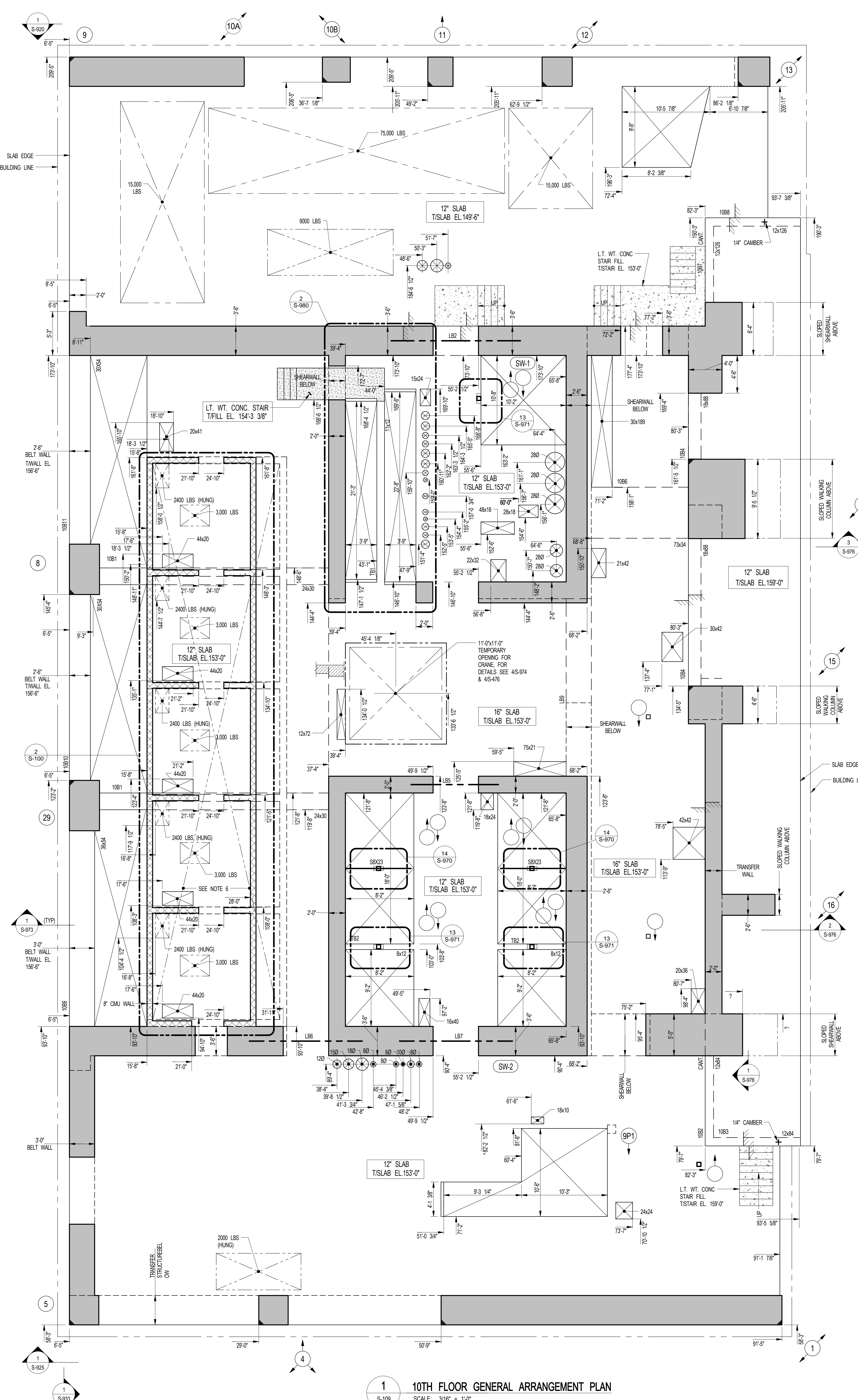
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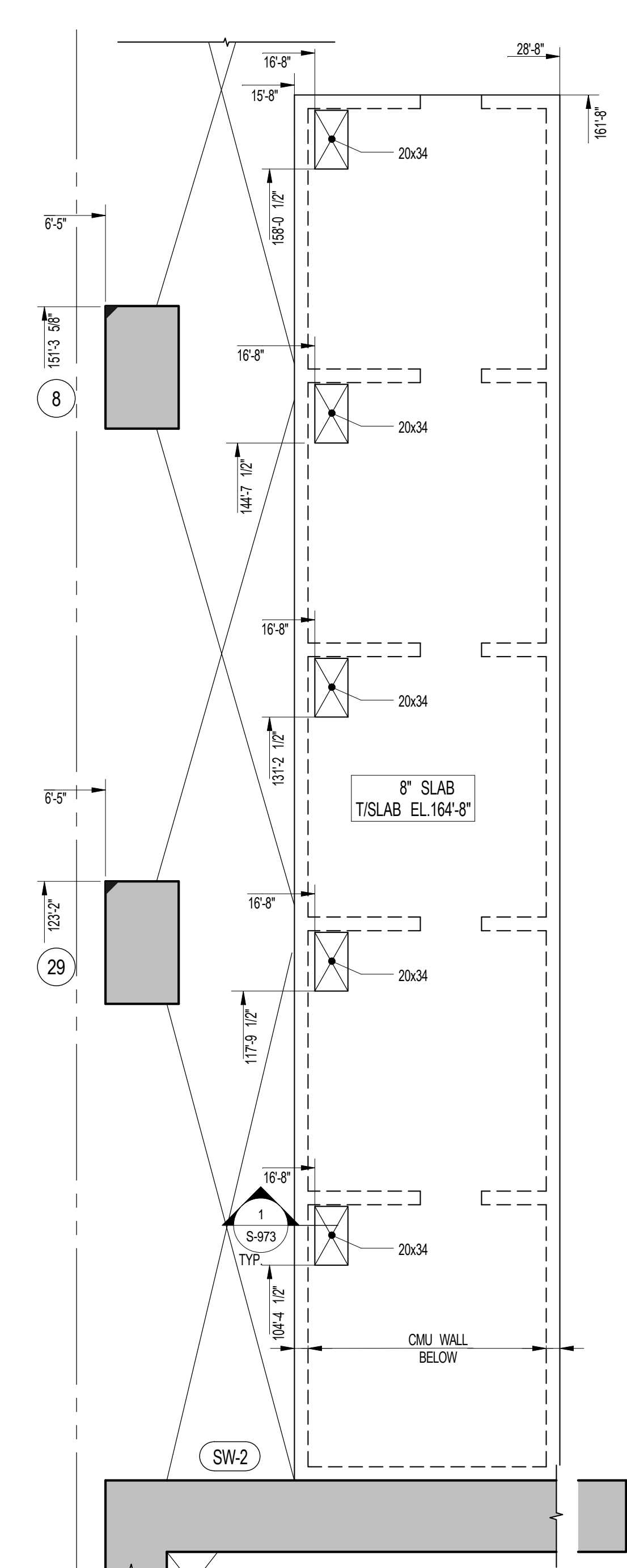
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1 10TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 153'-0" U.O.N. ON PLAN THIS []
2. SLAB TO BE 12" THICK U.O.N. THIS [] ON PLAN
3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.



2 ROOF OVER NETWORK PROTECTOR ROOM GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

SHEET NOTES:

KEY PLAN

NO.	ISSUE SET	REV DATE
1	DESIGN DEVELOPMENT SET	1 12-22-14
2	70% CD	2 04-27-15
3	85% CD	3 07-02-15
4	90% PARTIAL CD ISSUE - FLOORS	4 09-03-15
5	SC-12	
6	95% CD	5 11-24-15
7	PAA #2	6 01-28-16
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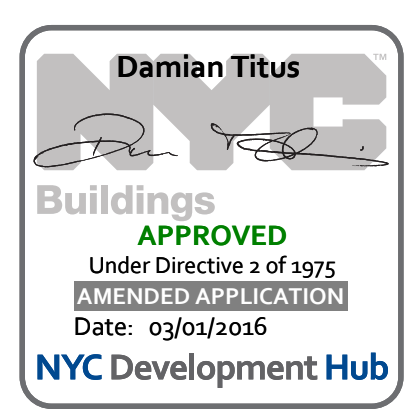
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DRAWING SCALE:
As indicated

PROJECT NUMBER:
2012088

TITLE:
10TH FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.:
S-109.00



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KEY PLAN

NO. ISSUE SET **REV DATE**

1	100% SD ISSUE	1	02-15-13
2	REVISED SD ISSUE	2	05-06-13
3	REVISED SD ISSUE	3	08-21-13
4	FINAL SD ISSUE	4	11-28-13
5	REVISED SD	5	08-22-14
6	REVISED AS NOTED	6	09-29-14
7	SUPERSTRUCTURE EARLY BID	7	11-17-14
8	SET		
9	DESIGN DEVELOPMENT SET	8	12-22-14
10	NYCT SUBMISSION	9	12-23-14
11	UPDATED DOOR SET	10	01-20-15
	70% CD	11	04-27-15
12	80% CD	12	07-02-15
13	90% PARTIAL CD ISSUE - FLOORS	13	09-03-15
14	SC-12	14	11-24-15
15	95% CD	15	01-28-16
16	PAA #2	16	11-24-15
17			
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KEY PLAN

KEY PLAN

NO. ISSUE SET **REV DATE**

1	100% SD ISSUE	1	02-15-13
2	REVISED SD ISSUE	2	05-06-13
3	REVISED SD ISSUE	3	08-21-13
4	FINAL SD ISSUE	4	11-28-13
5	REVISED SD	5	08-22-14
6	REVISED AS NOTED	6	09-29-14
7	SUPERSTRUCTURE EARLY BID	7	11-17-14
8	SET		
9	DESIGN DEVELOPMENT SET	8	12-22-14
10	NYCT SUBMISSION	9	12-23-14
11	UPDATED DOOR SET	10	01-20-15
	70% CD	11	04-27-15
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14	SC-12	14	11-24-15
15	95% CD	15	01-28-16
16	PAA #2	16	11-24-15
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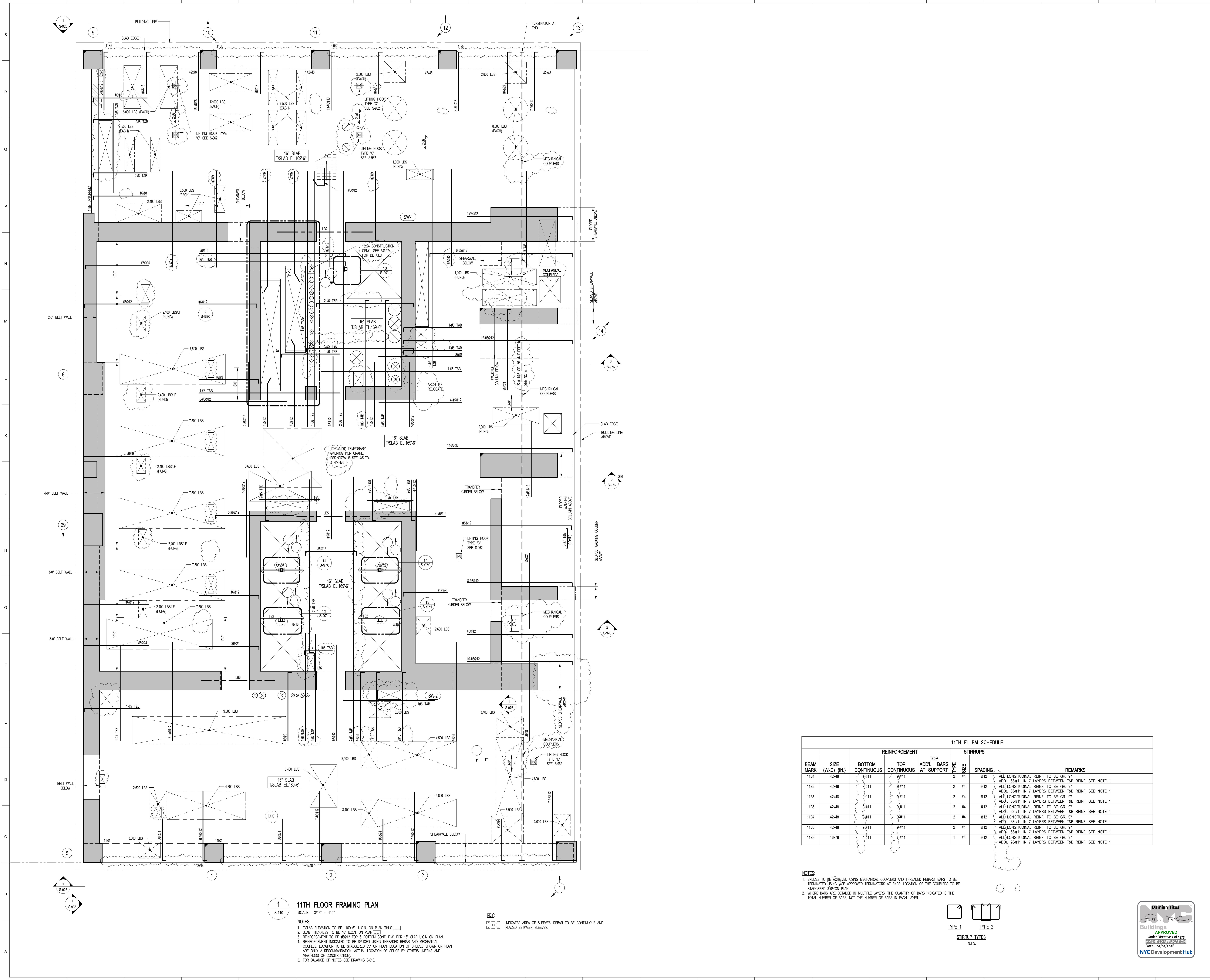
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DRAWING SCALE
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PROJECT NUMBER
2012088

TITLE
11TH FLOOR FRAMING PLAN

DRAWING NO.
S-110.01



1 11TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. T/S LAB ELEVATION TO BE "169'-6" U.O.N. ON PLAN THIS []
 2. SLAB THICKNESS TO BE "16" U.O.N. ON PLAN []
 3. REINFORCEMENT TO BE #6@12" TOP & BOTTOM CONT. EN. FOR 16" SLAB U.O.N. ON PLAN
 4. REINFORCEMENT INDICATED TO BE SPICED USING THREADED REBAR AND MECHANICAL COUPLERS. LOCATION TO BE STAGGERED 30" ON PLAN. LOCATION OF SPICES SHOWN ON PLAN ARE ONLY A RECOMMENDATION. ACTUAL LOCATION OF SPICE BY OTHERS, MEANS AND METHODS OF CONSTRUCTION.
 5. FOR BALANCE OF NOTES SEE DRAWING 5010.

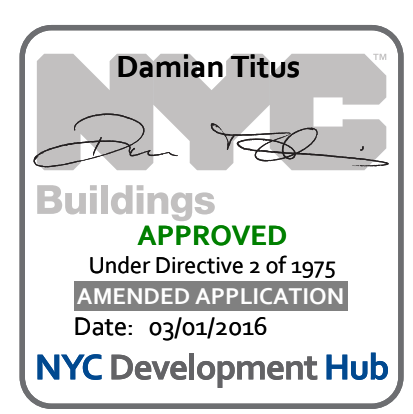
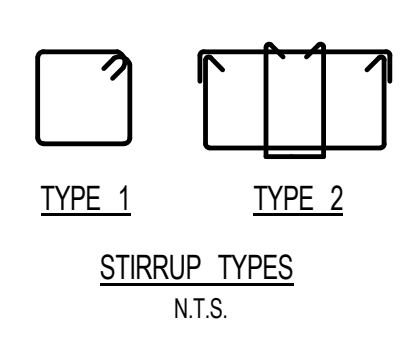
KEY:

[Symbol] INDICATES AREA OF SLEEVES. REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.

11TH FL. BM SCHEDULE

BEAM MARK	SIZE (WxD) (IN)	REINFORCEMENT		TOP ADD'L BARS AT SUPPORT	STIRRUPS		REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS		SIZE	SPACING	
11B1	42x48	#11	#11		#4	@12	ALL LONGITUDINAL REINF. TO BE GR. 97
11B2	42x48	#11	#11		#4	@12	ADJL. #3-#11 IN 7 LAYERS BETWEEN TAB REINF. SEE NOTE 1
11B5	42x48	#11	#11		#4	@12	ALL LONGITUDINAL REINF. TO BE GR. 97
11B6	42x48	#11	#11		#4	@12	ADJL. #3-#11 IN 7 LAYERS BETWEEN TAB REINF. SEE NOTE 1
11B7	42x48	#11	#11		#4	@12	ALL LONGITUDINAL REINF. TO BE GR. 97
11B8	42x48	#11	#11		#4	@12	ADJL. #3-#11 IN 7 LAYERS BETWEEN TAB REINF. SEE NOTE 1
11B9	16x78	#11	#11		#4	@12	ALL LONGITUDINAL REINF. TO BE GR. 97

- NOTES:**
1. SPICES TO BE ACHIEVED USING MECHANICAL COUPLERS AND THREADED REBAR. BARS TO BE TERMINATED USING WSP APPROVED TERMINATORS AT ENDS. LOCATION OF THE COUPLERS TO BE STAGGERED 3'-0" ON PLAN.
 2. WHERE BARS ARE DETAILED IN MULTIPLE LAYERS, THE QUANTITY OF BARS INDICATED IS THE TOTAL NUMBER OF BARS, NOT THE NUMBER OF BARS IN EACH LAYER.



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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	70% CD	1 04-27-15
2	80% CD	2 07-02-15
3	80% PARTIAL CD ISSUE - FLOORS	3 09-03-15
4	90% CD	4 11-24-15
5	90% CD	4 11-24-15
6	PAA #2	5 01-26-16
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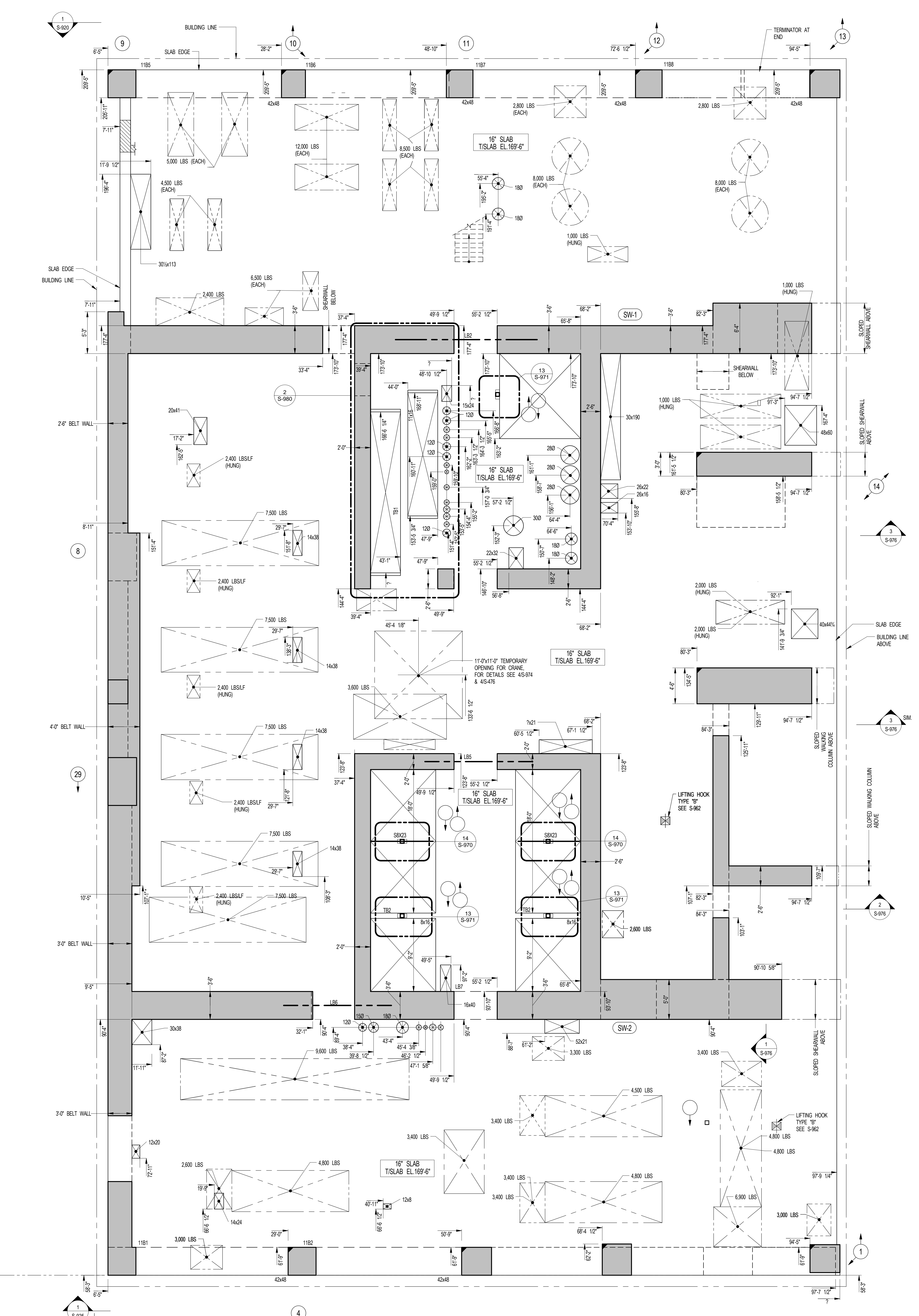
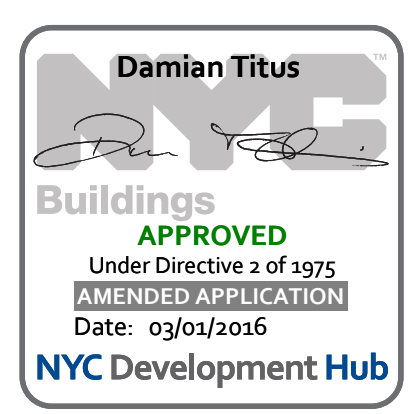
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PROJECT NUMBER

TITLE
11TH FLOOR GENERAL ARRANGEMENT
PLAN

DRAWING NO.
S-119.00



1 11TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES**
1. SLAB ELEVATION TO BE 169'-6" U.O.N. ON PLAN THIS
 2. SLAB THICKNESS TO BE 16" U.O.N. ON PLAN THIS
 3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

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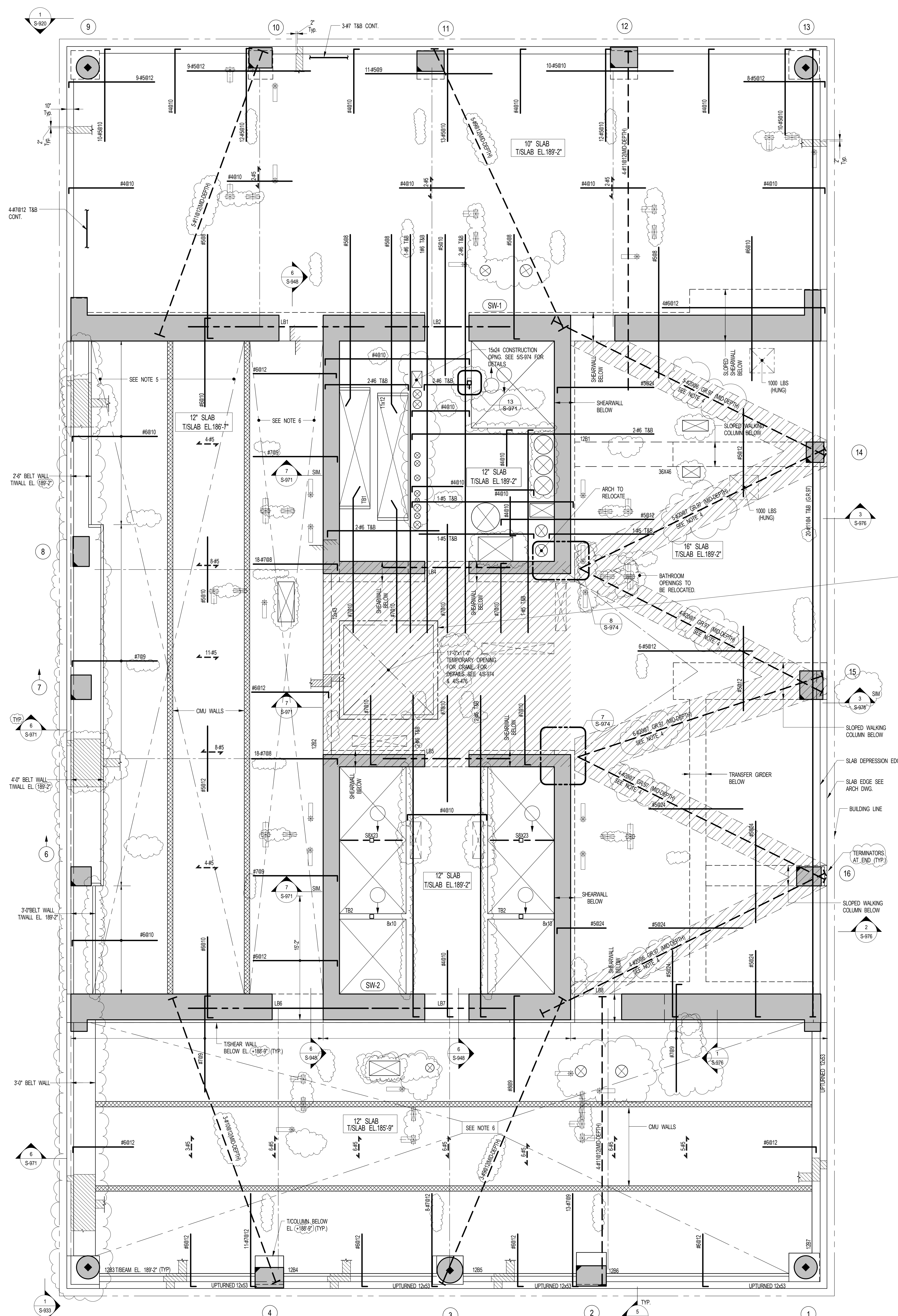
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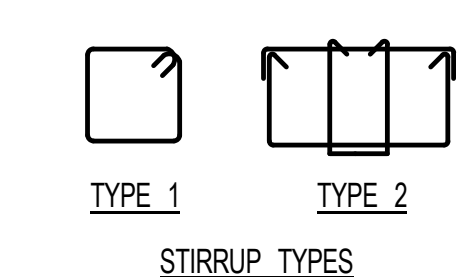
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TEMPORARY CRANE OPENING IN SLAB AT 10TH AND 12TH FLOORS MUST BE FILLED WITH NORMAL WEIGHT CONCRETE AND HAVE REACHED ITS DESIGN STRENGTH (f_c=6,000 PSI) PRIOR TO CONSTRUCTING THE 23RD FLOOR SLAB

1 12TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"
NOTES:
1. TISLAB ELEVATION TO BE 189'-2" W.O.N. ON PLAN THIS...
2. SLAB THICKNESS TO BE 12" W.O.N. THIS...
3. MESH REINFORCEMENT TO BE #4@10 BOTTOM CONT. E.W. FOR 12' SLAB W.O.N. ON PLAN...
4. REIN. INDICATED TO BE SPICED USING MECHANICAL COUPLERS AND THREADED REBAR...
5. IN AREA INDICATED USE TYPE 'A' SLAB-ON-GRADE CONSTRUCTION PER S-962...
6. IN AREA INDICATED USE TYPE 'B' SLAB-ON-GRADE CONSTRUCTION PER S-962...
7. FOR BALANCE OF NOTES SEE DRAWING S-101.

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT			STIRRUPS		REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	ADD'L. BARS AT SUPPORT	TYPE	SPACING	
1281	30x46	4#11	4#11		2	#4 @12	ALL LONGITUDINAL REIN. TO BE GR 97 ADD'L. 20#4 IN 5 LAYERS BETWEEN T&B REIN. WSP APPROVED TERMINATORS TO BE USED AT BAR ENDS.
1282	12x43	4#11 (2 LAYERS)	2#6		1	#4 @12	#4@10 SKIN REIN.
1283	12x53	2#9	2#5	2#8	1	#4 @12	#4@8 SKIN REIN. UPTURNED BEAM. PLACE ADD'L BARS AT COL. 4 IN 2ND LAYER. SEE S-5-971
1284	12x53	2#8	2#5	2#5	1	#4 @12	#4@8 SKIN REIN. UPTURNED BEAM. PLACE ADD'L BARS AT COL. 3 IN 2ND LAYER. SEE S-5-971
1285	12x53	2#6	2#7	2#9	1	#4 @12	#4@8 SKIN REIN. UPTURNED BEAM. PLACE ADD'L BARS AT COL. 2 IN 2ND LAYER. SEE S-5-971
1286	12x53	2#10	2#5		1	#4 @12	#4@8 SKIN REIN. UPTURNED BEAM. SEE S-5-971
1287	12x53	6#11 (2 LAYERS)	2#11		1	#4 @12	#4@10 SKIN REIN. UPTURNED BEAM. SEE S-5-971



NOTES:
1. WHERE BARS ARE DETAIL IN MULTIPLE LAYERS, THE QUANTITY OF BARS INDICATED IS THE TOTAL NUMBER OF BARS NOT THE NUMBER OF BARS IN EACH LAYER.

KEY PLAN

NO. ISSUE SET **REV. DATE**

1	100% SD ISSUE	1	02-15-13
2	REVISED SD ISSUE	2	05-06-13
3	REVISED SD ISSUE	3	08-21-13
4	FINAL SD ISSUE	4	11-26-13
5	REVISED SD	5	08-22-14
6	SUPERSTRUCTURE EARLY BID	6	11-17-14
7	SET	7	12-22-14
8	DESIGN DEVELOPMENT SET	7	12-22-14
9	NYCT SUBMISSION	8	12-23-14
10	UPDATED DOB SET	9	01-20-15
11	TWOCD	10	04-27-15
12	85% CD	11	07-02-15
13	80% PARTIAL CD ISSUE - FLOORS	12	09-03-15
14	85% CD	13	11-24-15
15	FAA #2	14	01-28-16
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12/26/2016 5:39:50 PM

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PROJECT NUMBER

TITLE
12TH FLOOR FRAMING PLAN

DRAWING NO.
S-120.01

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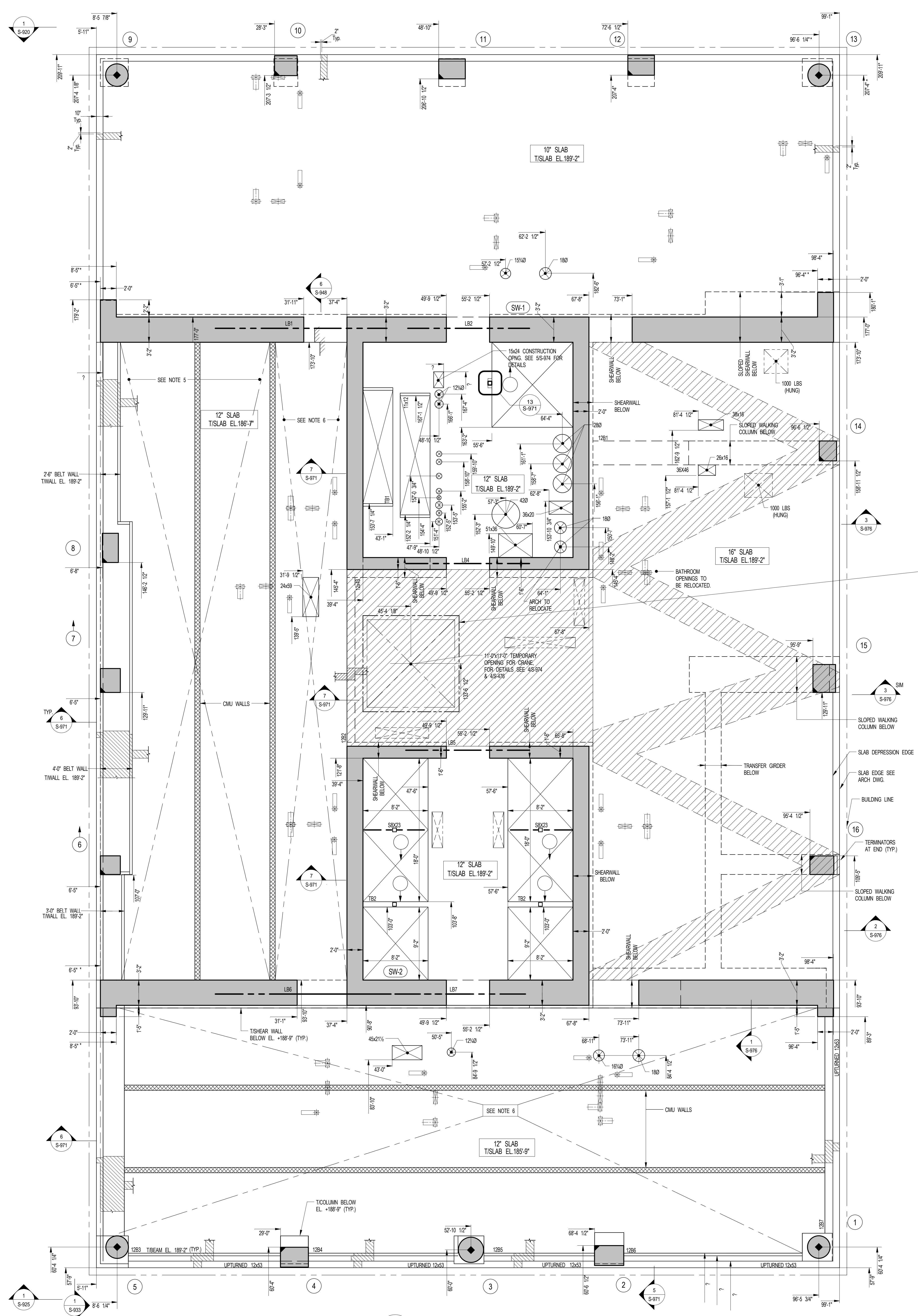
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TEMPORARY CRANE OPENING IN SLAB AT 10TH AND 12TH FLOORS MUST BE FILLED WITH NORMAL WEIGHT CONCRETE AND HAVE REACHED ITS DESIGN STRENGTH (F_c=8,600 PSI) PRIOR TO CONSTRUCTING THE 23RD FLOOR SLAB

1 12TH FLOOR GENERAL ARRANGEMENT PLAN
S-129 SCALE: 3/16" = 1'-0"

- NOTES**
1. T/S LAB ELEVATION TO BE 189'-2" U.O.N. ON PLAN THIS []
 2. SLAB THICKNESS TO BE 16" U.O.N. THIS [] ON PLAN
 3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN

SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	DESIGN DEVELOPMENT SET	1 12-22-14
2	T/ING CD	2 04-27-15
3	85% CD	3 07-02-15
4	90% PARTIAL CD ISSUE - FLOORS	4 09-03-15
5	SC-12	
6	95% CD	5 11-24-15
7	PAA #2	6 01-28-16
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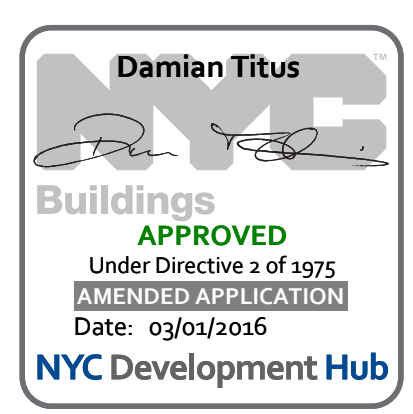
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DRAWING SCALE
As indicated

PROJECT NUMBER



TITLE
12TH GENERAL ARRANGEMENT PLAN

DRAWING NO.

S-129.00

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LEED CONSULTANT:
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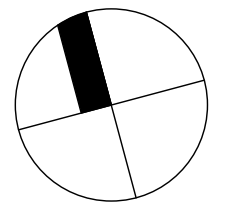
ACOUSTICAL CONSULTANTS:
CERAMI & ASSOCIATES INC.
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New York, NY 10018
T: 212-290-1776

LANDSCAPE DESIGNER:
Nelson Byrd White
200 Park Avenue South, Suite 920
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SHEET NOTES:

1. SEE 13-10 FOR BALANCE OF INFORMATION.

KEY PLAN



NO	ISSUE SET	REV DATE
1	FINAL SD ISSUE	1 11-25-13
2	REVISED SD	2 09-22-14
3	SUPERSTRUCTURE EARLY BID	3 11-17-14
4	SET	4 12-22-14
5	DESIGN DEVELOPMENT SET	5 12-23-14
6	NYCT SUBMISSION	6 01-29-15
7	UPDATED DOB SET	7 04-27-15
8	TWOCD	8 07-02-15
9	85% CD	9 09-03-15
10	80% PARTIAL CD ISSUE - FLOORS	10 11-24-15
11	SC-12	11 01-26-16
12	85% CD	12 11-24-15
13	FAA #2	11 01-26-16
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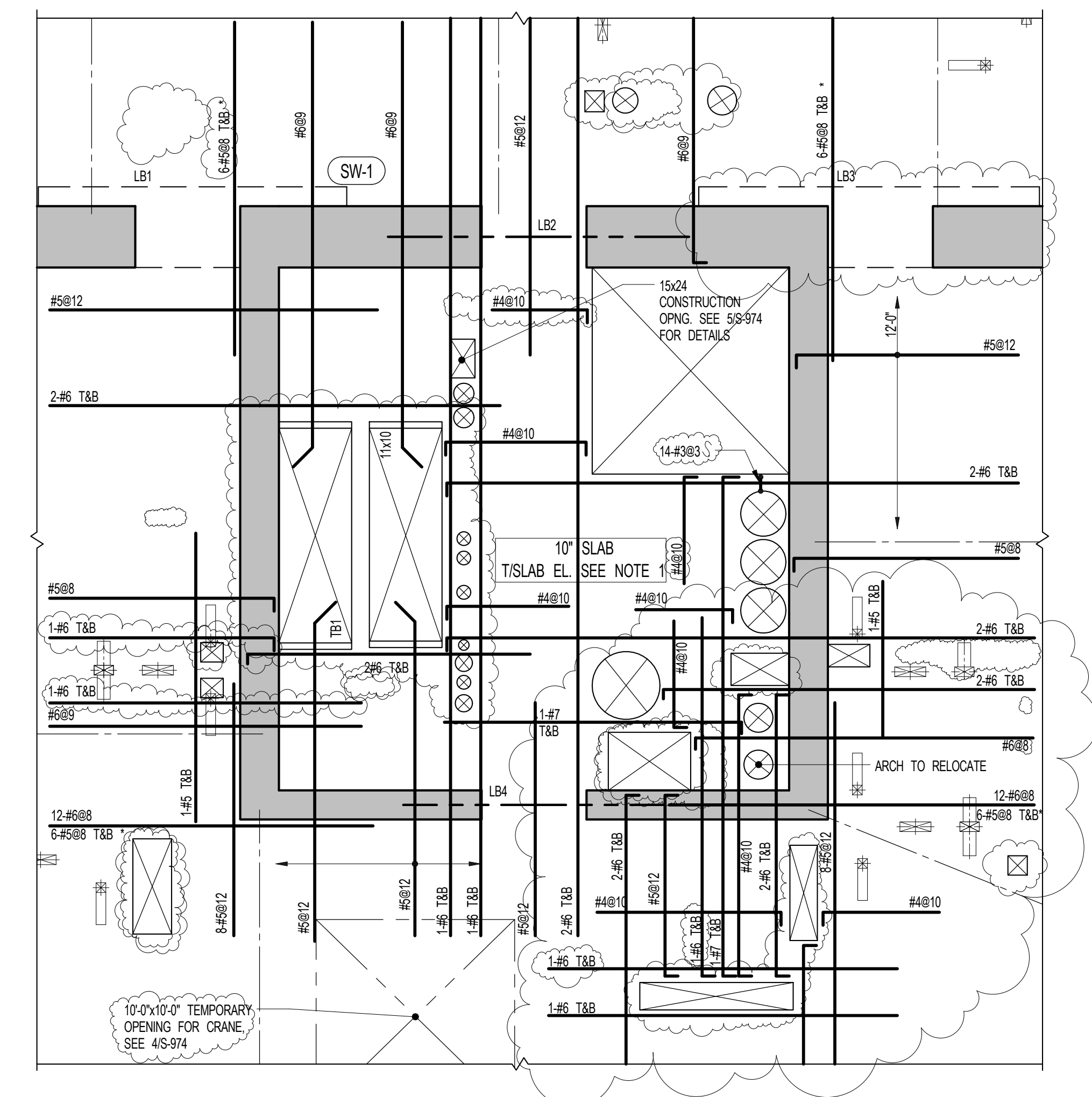
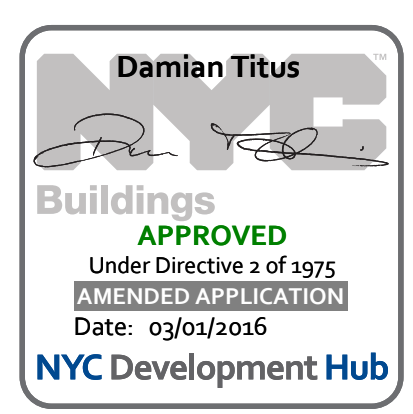
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As indicated

PROJECT NUMBER

TITLE
13TH-17TH FLOOR FRAMING PLAN

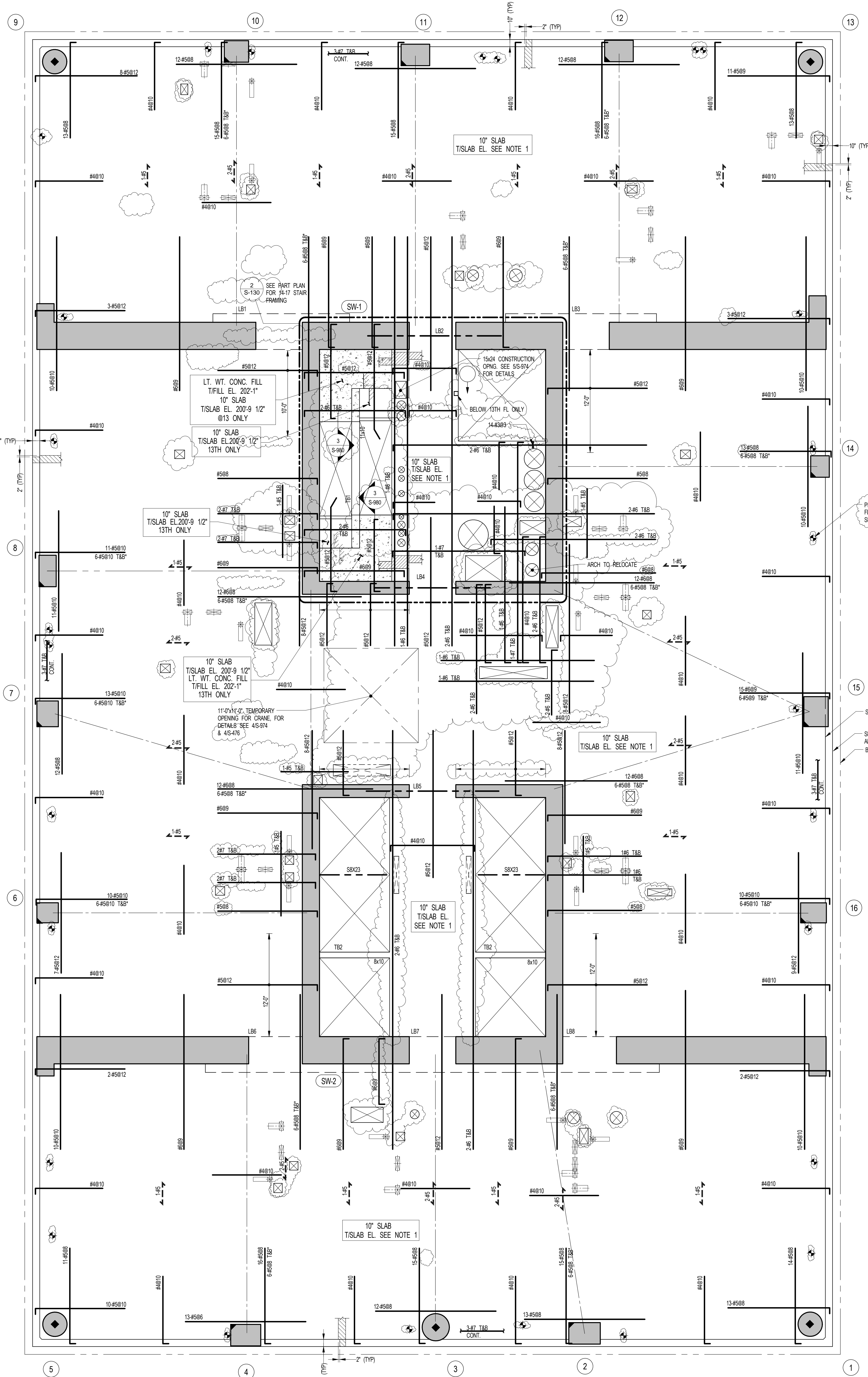
DRAWING NO.

S-130.01



2 14TH - 17TH PART FRAMING PLAN @ STAIRS
S-130
SCALE: 3/16" = 1'-0"

NOTES:
1. SEE 13-10 FOR BALANCE OF INFORMATION.



1 13TH - 17TH FLOOR FRAMING PLAN
S-130
SCALE: 3/16" = 1'-0"

NOTES:
1. TISLAB ELEVATION TO BE: 202'-11" @ 13TH FLOOR U.O.N.
211'-7" @ 14TH FLOOR U.O.N.
221'-11" @ 15TH FLOOR U.O.N.
237'-7" @ 16TH FLOOR U.O.N.
240'-11" @ 17TH FLOOR U.O.N.
2. SLAB THICKNESS TO BE 10" U.O.N. TRUSSES ON PLAN.
3. BOTTOM MESH REINFORCEMENT TO BE #4@10 CONT. EW FOR 10' SLAB U.O.N. ON PLAN.
4. FOR BALANCE OF NOTES SEE DRAWING 510.

KEY:
[Symbol] INDICATES AREA OF SLEEVES. REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.
[Symbol] INDICATES ADD. REIN. FOR LATERAL LOADS. SEE TYPICAL PLATE REIN. DETAIL.
[Symbol] INDICATES 500LB PIPE REACTION ON SLAB @ 9TH FLOOR. MIN. BEARING AREA ON SLAB 3'x7'. SEE MEP DRAWING FOR DETAILS.

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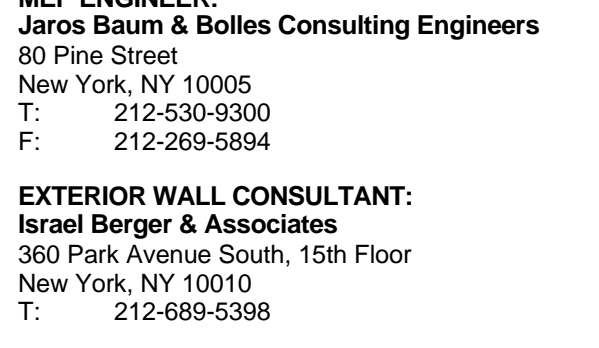
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KEY PLAN



NOTES:

NO.	ISSUE SET	REV DATE
1	70% CD	1. 04-27-15
2	85% CD	2. 07-02-15
3	85% CD	3. 11-24-15
4	PAA #2	4. 01-28-16
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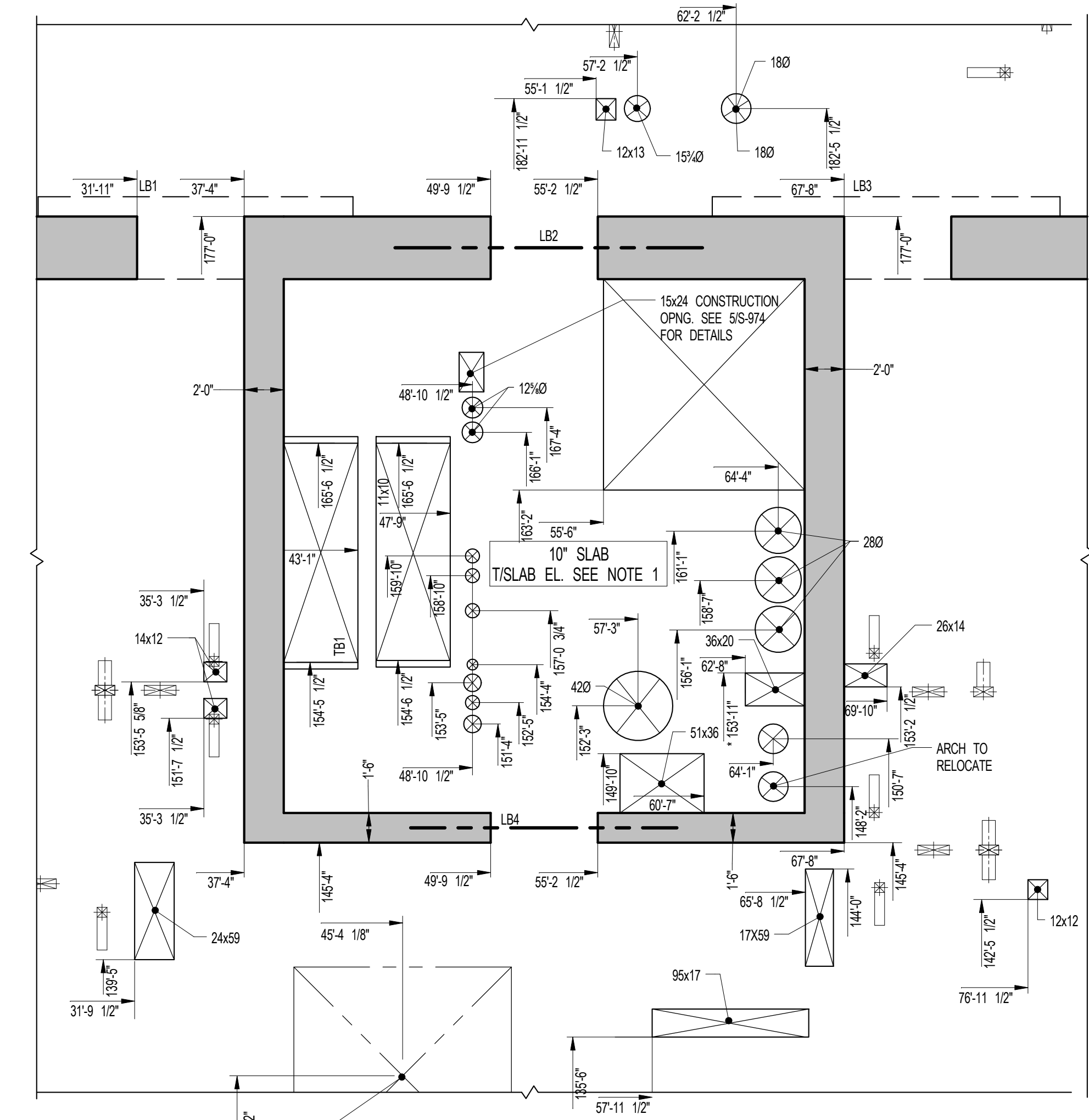
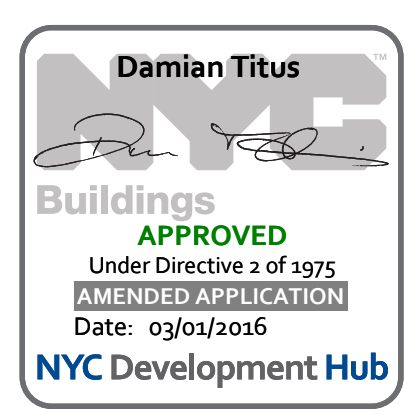
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DRAWING SCALE:
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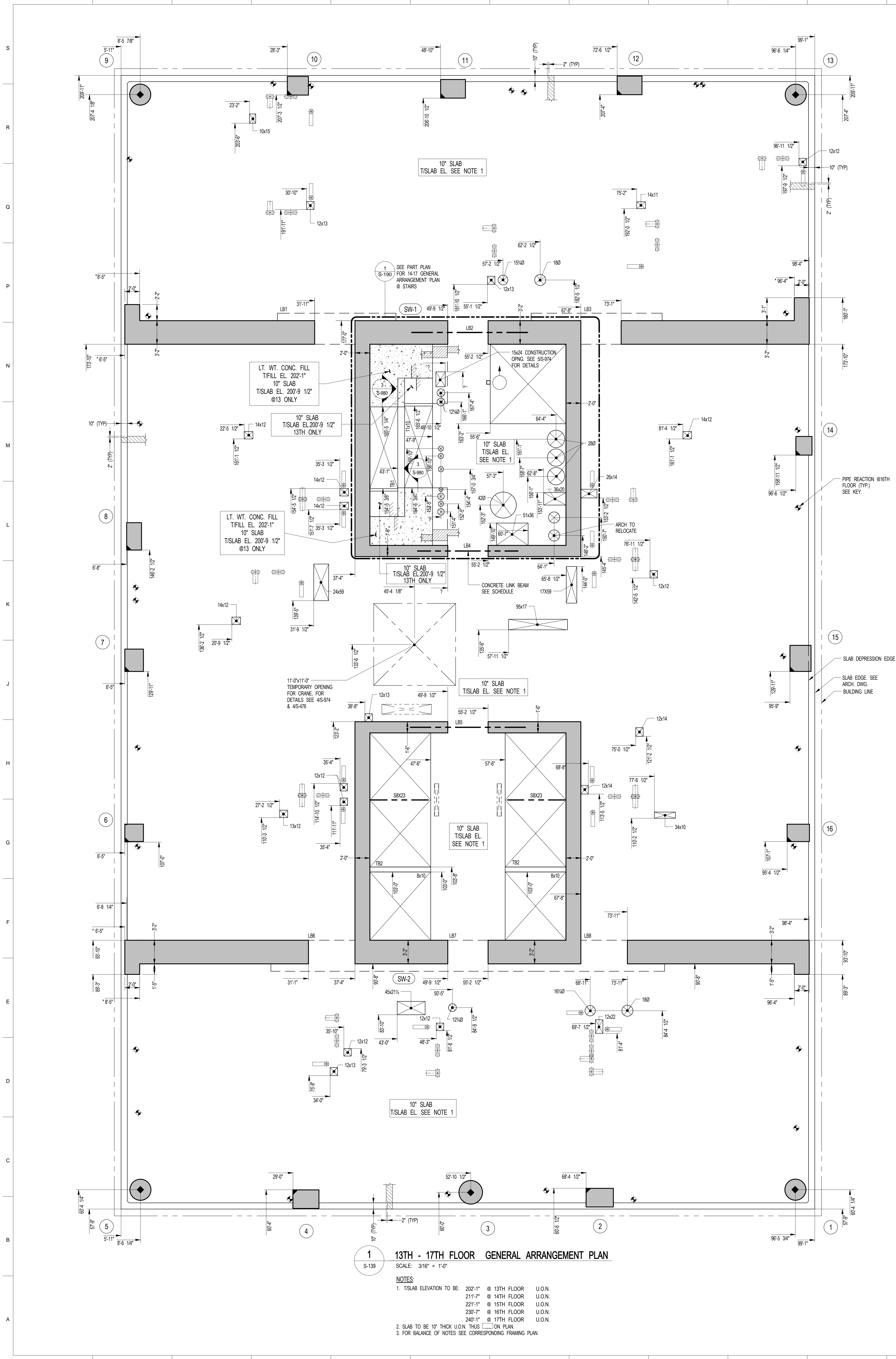
PROJECT NUMBER:
2012088

TITLE:
13TH-17TH GENERAL ARRANGEMENT PLAN

DRAWING NO.:
S-139.00



2 14TH - 17TH PART GENERAL ARRANGEMENT PLAN @ STAIRS
SCALE: 3/16" = 1'-0"
NOTE:
1. SEE 15139 FOR BALANCE OF INFORMATION



1 13TH - 17TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

NOTES:

- TISLAB ELEVATION TO BE: 202'-1" @ 13TH FLOOR U.O.N.
211'-7" @ 14TH FLOOR U.O.N.
221'-1" @ 15TH FLOOR U.O.N.
230'-7" @ 16TH FLOOR U.O.N.
240'-1" @ 17TH FLOOR U.O.N.
- SLAB TO BE 10" THICK U.O.N. THIS ON PLAN.
- FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	FINAL SD ISSUE	11-25-13
2	REVISED SD	2-09-22-14
3	SUPERSTRUCTURE EARLY BID SET	11-17-14
4	SET	
5	DESIGN DEVELOPMENT SET	12-22-14
6	NYCT SUBMISSION	12-23-14
7	UPDATED DOB SET	01-29-15
8	TWOCD	04-27-15
9	85% CD	07-02-15
10	90% CD	11-24-15
11	PPA #2	01-26-16
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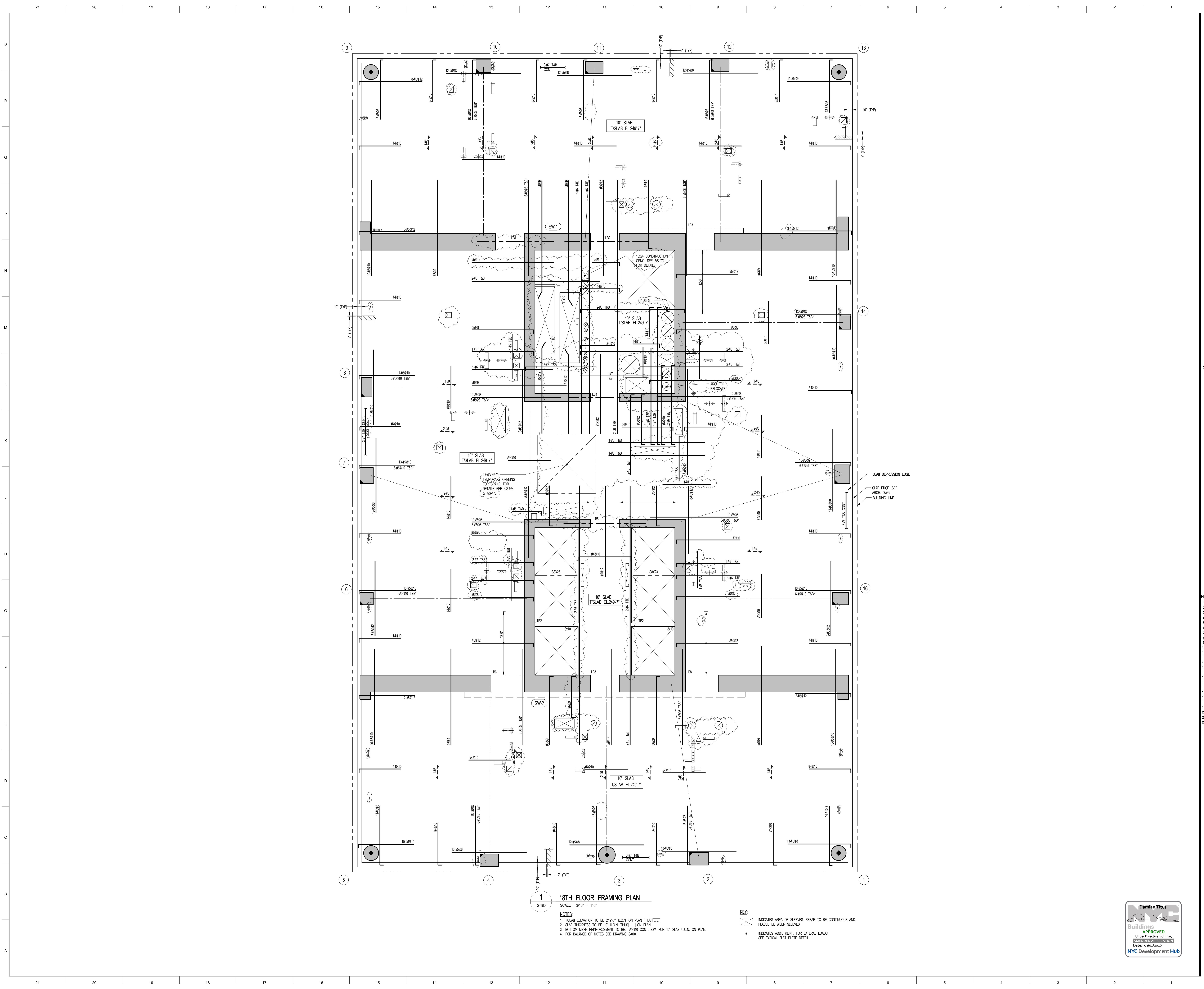
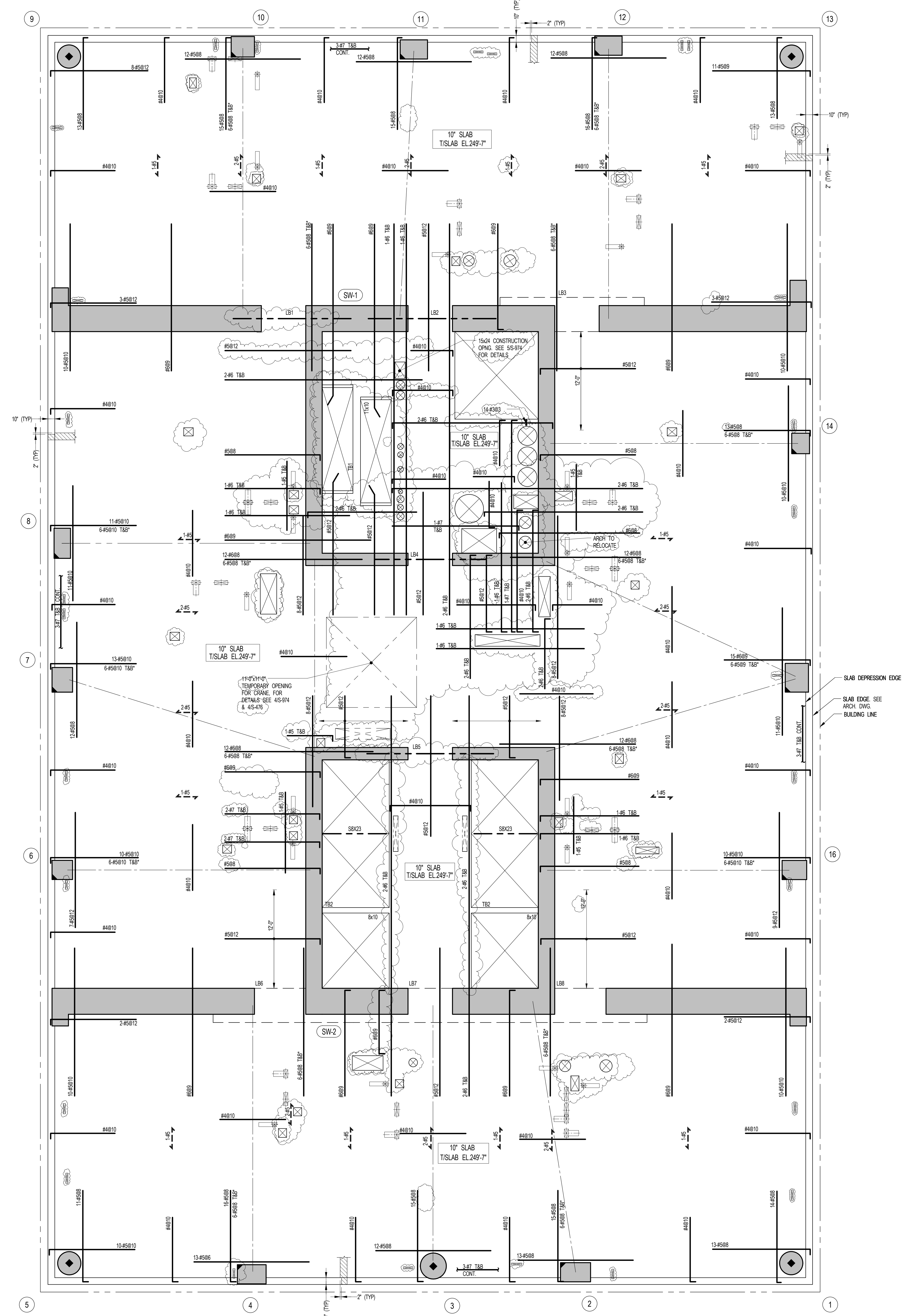
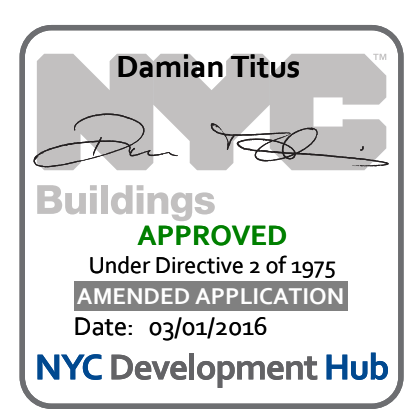
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DRAWING SCALE:
As indicated

PROJECT NUMBER:

TITLE:
18TH FLOOR FRAMING PLAN

DRAWING NO.:
S-180.01



OWNER:
Related Companies
90 Columbus Circle
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MEP ENGINEER:
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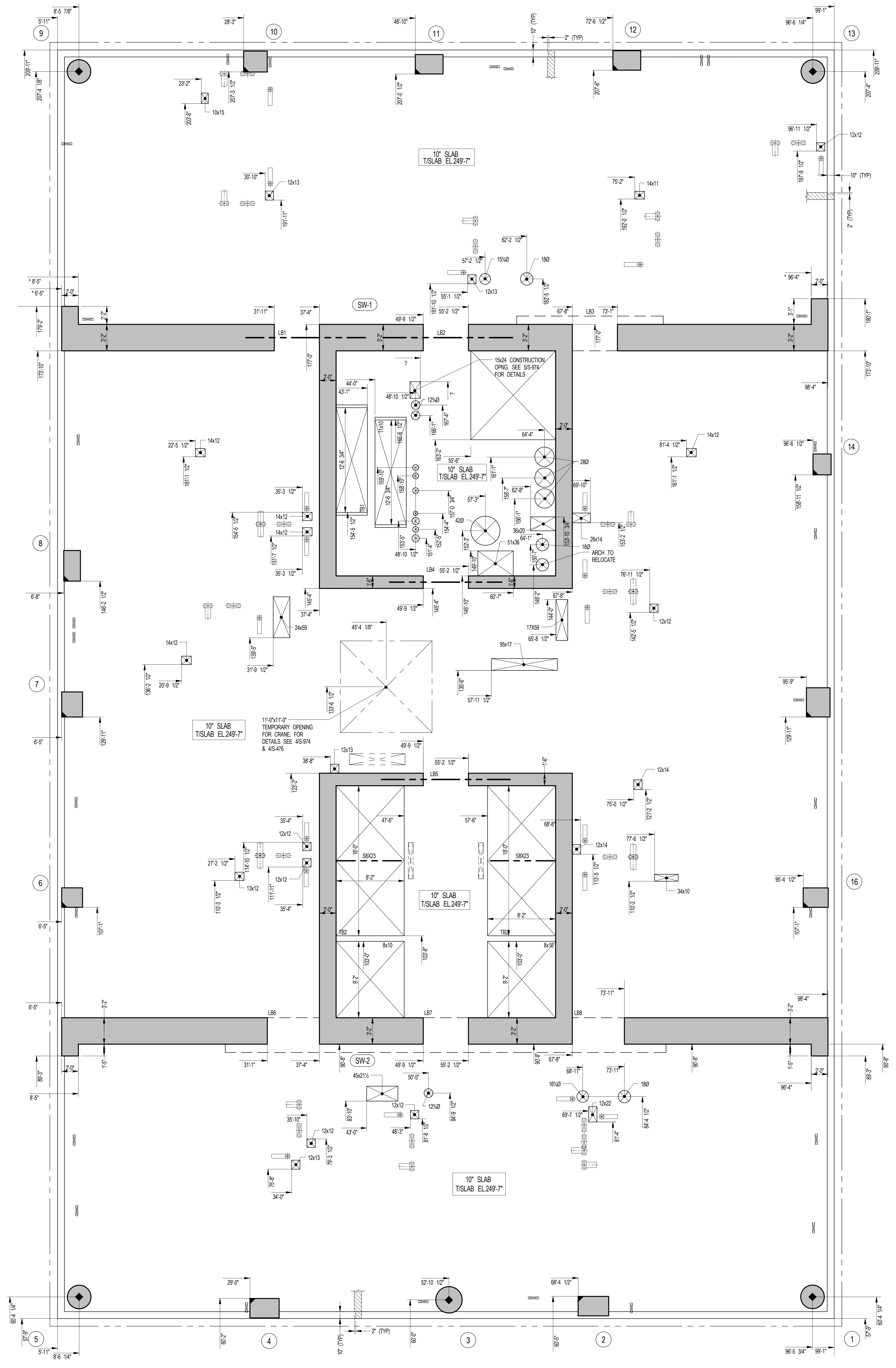
EXTERIOR WALL CONSULTANT:
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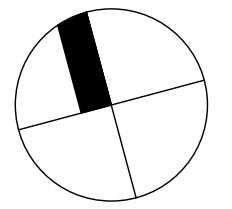


1 18TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE -269.7' U.O.N. ON PLAN THIS []
2. SLAB TO BE 10" THICK U.O.N. THIS [] ON PLAN
3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

SHEET NOTES:

KEY PLAN



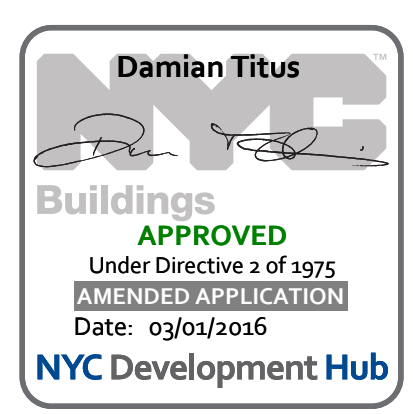
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2	85% CD	2. 07-02-15
3	95% CD	3. 11-24-15
4	PAA #2	4. 01-28-16
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DATE OF PRINT:
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DRAWING SCALE:
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PROJECT NUMBER:



TITLE:
18TH FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.:
S-189.00

15 HUDSON YARDS
a.k.a. 553 W 30TH STREET,
NEW YORK, NY.

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LANDSCAPE DESIGNER:
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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	FINAL SD ISSUE	11-25-13
2	REVISED SD	2-08-22-14
3	SUPERSTRUCTURE EARLY BID	3-11-17-14
4	SET	
5	DESIGN DEVELOPMENT SET	4-12-22-14
6	NYCT SUBMISSION	5-12-23-14
7	UPDATED DOB SET	6-01-29-15
8	TWOCD	7-04-27-15
9	85% CD	8-07-02-15
10	90% CD	9-11-24-15
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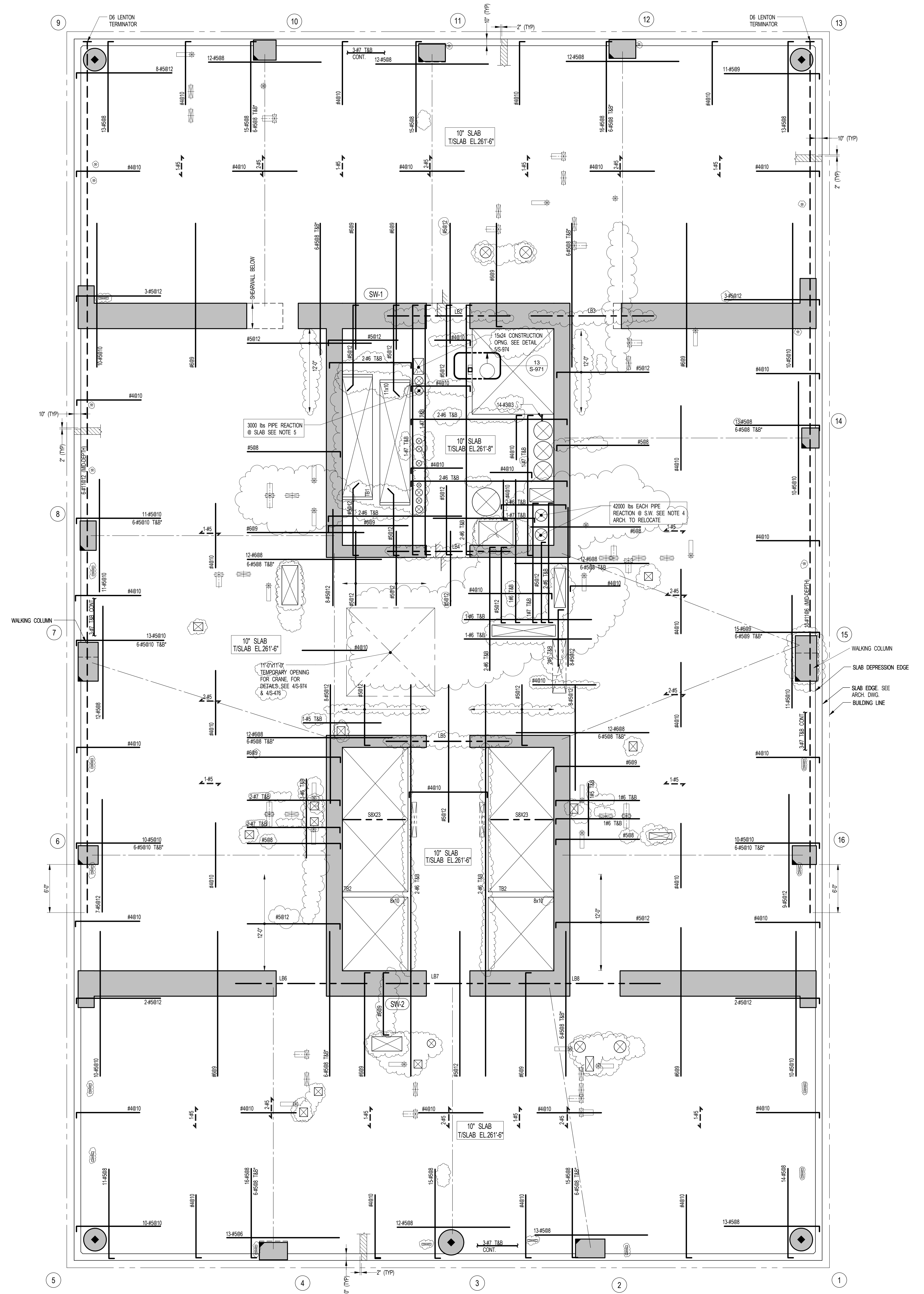
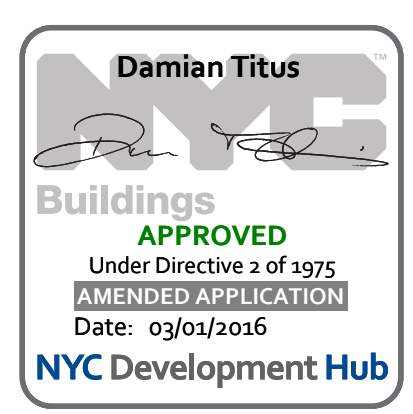
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DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
19TH FLOOR FRAMING PLAN

DRAWING NO.
S-190.01



1 19TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. T/S LAB ELEVATION TO BE 28'11-0" U.O.N. ON PLAN THIS [] ON PLAN
 2. SLAB THICKNESS TO BE 10" U.O.N. THIS [] ON PLAN
 3. BOTTOM MESH REINFORCEMENT TO BE #4@10 CONT. E/W FOR 10" SLAB U.O.N. ON PLAN
 4. SEE MEP DRAWING FOR SUPPORT DETAILS LOADS TO BE SUPPORTED ON SW LONG BRACKET. DESIGN BY OTHERS.
 5. SEE MEP DRAWINGS FOR SUPPORT DETAILS W/IN BEARING AREA ON SLAB TO BE #37.
 6. FOR BALANCE OF NOTES SEE DRAWING 5/17.

KEY:

INDICATES AREA OF SLEEVES REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES

INDICATES ADDL. REINF. FOR LATERAL LOADS. SEE TYPICAL FLAT PLATE DETAIL

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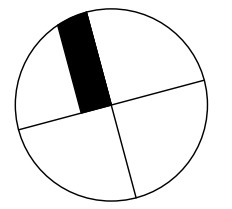
ACOUSTICAL CONSULTANTS:
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LANDSCAPE DESIGNER:
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SHEET NOTES:

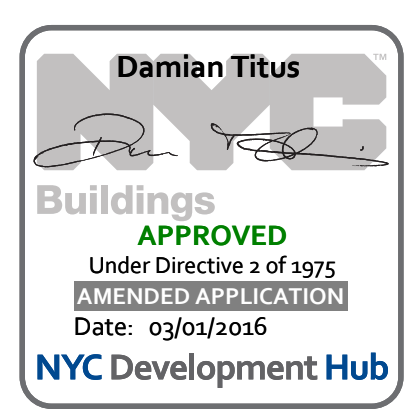
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 2. SET
 3. 70% CD 2 04-27-15
 4. 80% CD 3 07-02-15
 5. 90% CD 4 11-24-15
 6. PAA #2 5 01-26-16
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KEY PLAN



1 19TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

NOTES:
 1. TOP OF SLAB ELEVATION TO BE 261'-6" U.O.N. ON PLAN THUS: []
 2. SLAB TO BE 10" THICK U.O.N. THIS [] ON PLAN.
 3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.



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DATE OF PRINT
1/26/2016 7:04:44 PM

DRAWING SCALE
As indicated

PROJECT NUMBER
2012088

TITLE
19TH FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.
S-199.00

OWNER:
Related Companies
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KEY PLAN:



NO. ISSUE SET REV DATE

1	FINAL SD ISSUE	1	11-25-13
2	REVISED SD	2	08-22-14
3	SUPERSTRUCTURE EARLY BID SET	3	11-17-14
4	SET	4	12-22-14
5	DESIGN DEVELOPMENT SET	4	12-22-14
6	NYCT SUBMISSION	5	12-23-14
7	UPDATED DOB SET	6	01-29-15
8	TWOCD	7	04-27-15
9	85% CD	8	07-02-15
10	90% CD	9	11-24-15
11	PPA #2	10	01-26-16

KEY:

- INDICATES AREA OF SLEEVES. REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.
- INDICATES ADDL. REIN. FOR LATERAL LOADS. SEE TYPICAL PLAT. DETAIL.

STAMP:



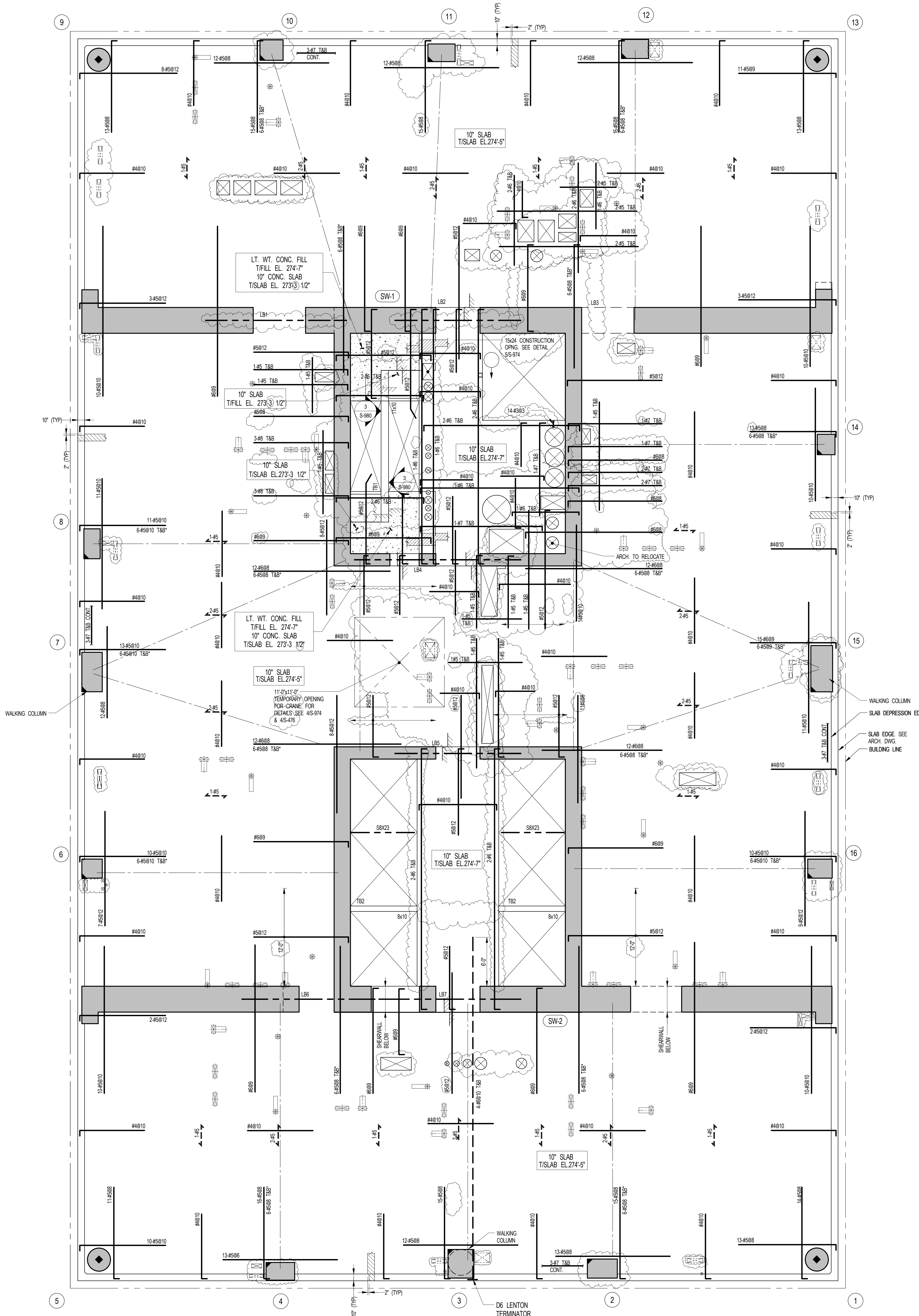
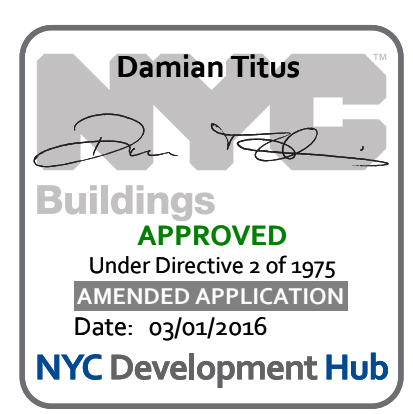
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DRAWING SCALE:
As indicated

PROJECT NUMBER:

TITLE:
20TH FLOOR FRAMING PLAN

DRAWING NO.:
S-200.01



1 20TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

NOTES:

1. TISLAB ELEVATION TO BE 274'-5" U.O.N. ON PLAN THIS
2. SLAB THICKNESS TO BE 10" U.O.N. THIS ON PLAN
3. BOTTOM MESH REINFORCEMENT TO BE #4810 CONT. EW. FOR 10" SLAB U.O.N. ON PLAN
4. FOR BALANCE OF NOTES SEE DRAWING S-010

KEY:

- INDICATES AREA OF SLEEVES. REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.
- INDICATES ADDL. REIN. FOR LATERAL LOADS. SEE TYPICAL PLAT. DETAIL.

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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	70% CD	1 04-27-15
2	85% CD	2 07-02-15
3	95% CD	3 11-24-15
4	PAA #2	4 01-28-16
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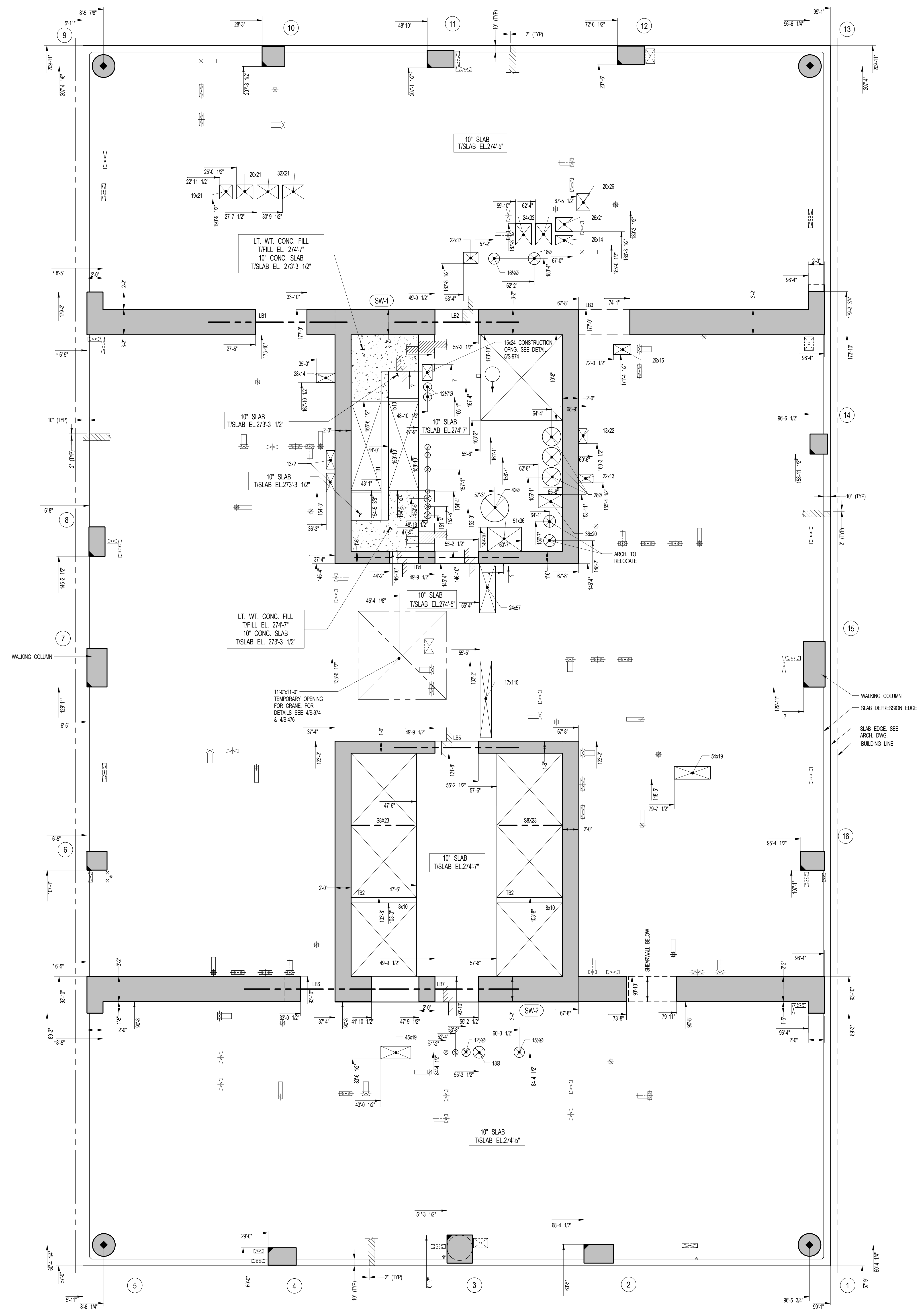
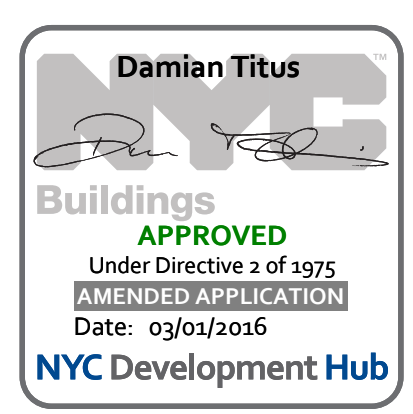
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DRAWING SCALE
3/16" = 1'-0"

PROJECT NUMBER
2012058

TITLE
20TH FLOOR GENERAL ARRANGEMENT
PLAN

DRAWING NO.
S-209.00



1 20TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 274'-5" U.O.N. ON PLAN THIS ---
2. SLAB TO BE 10" THICK U.O.N. THIS --- IN PLAN
3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN

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SHEET NOTES:

KEY PLAN



NO	ISSUE SET	REV DATE
1	FINAL SD ISSUE	1 11-25-13
2	REVISED SD	2 08-22-14
3	SUPERSTRUCTURE EARLY BID	3 11-17-14
4	SET	4
5	DESIGN DEVELOPMENT SET	4 12-22-14
6	NYCT SUBMISSION	5 12-23-14
7	UPDATED DOB SET	6 01-29-15
8	TRN/CD	7 04-27-15
9	85% CD	8 07-02-15
10	90% CD	9 11-24-15
11	PA#-#2	10 01-26-16
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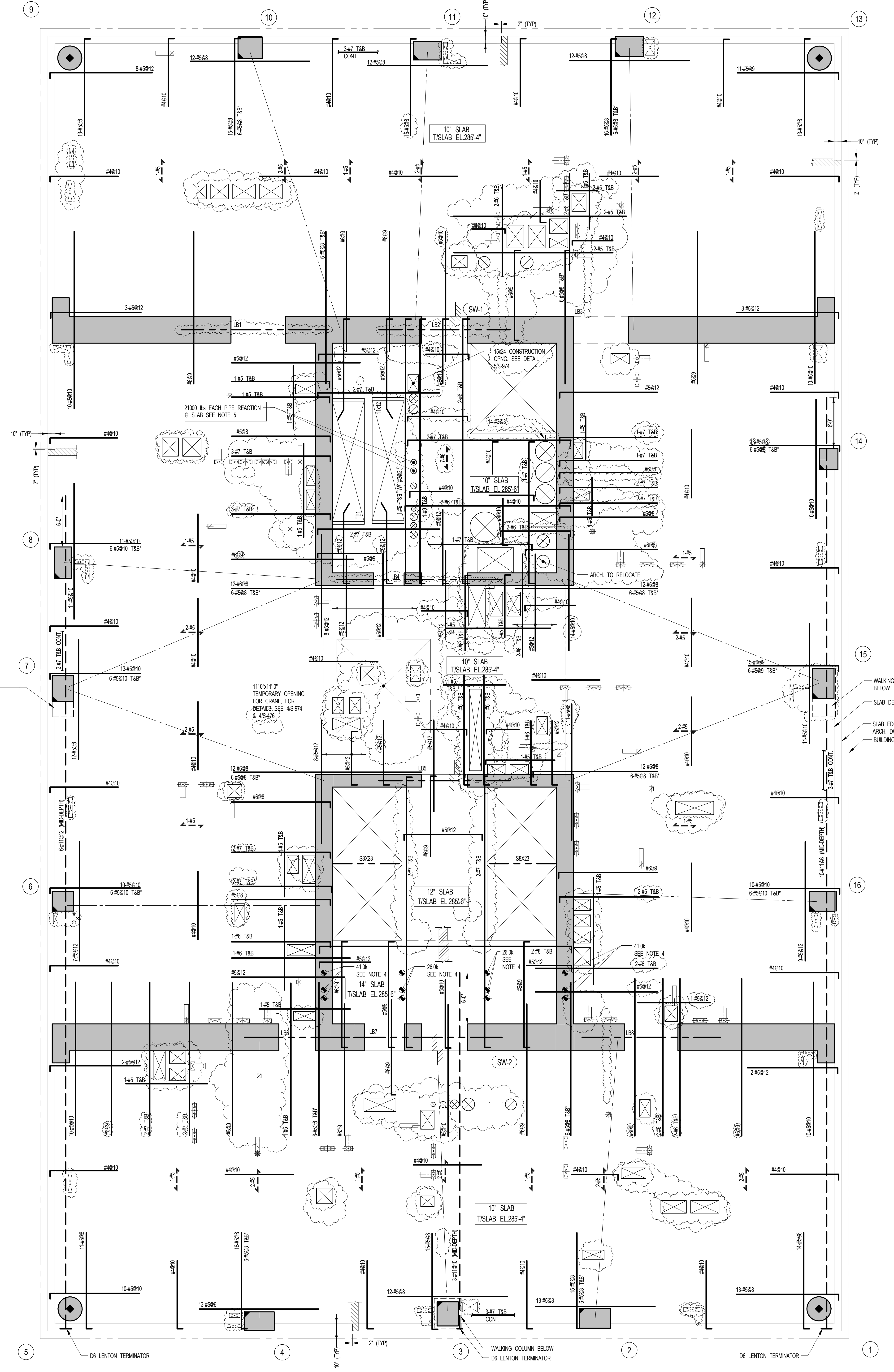
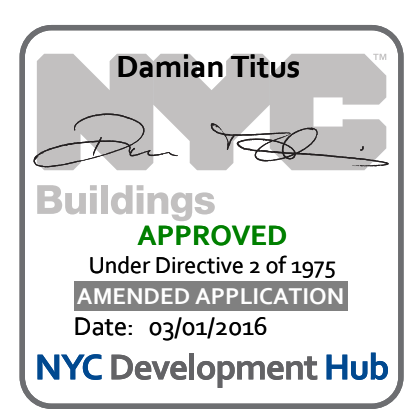
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DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
21ST FLOOR FRAMING PLAN

DRAWING NO.
S-210.01



1 21ST FLOOR FRAMING PLAN
SCALE: 3/8" = 1'-0"

NOTES:

1. SLAB ELEVATION TO BE 285'-4" U.O.N. ON PLAN THIS [] ON PLAN.
2. SLAB THICKNESS TO BE 10" U.O.N. THIS [] ON PLAN.
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 CONT. E.W. FOR 10' SLAB U.O.N. ON PLAN. #5@12 CONT. E.W. FOR 12' SLAB U.O.N. ON PLAN. #5@12 TOP & BOTTOM CONT. E.W. FOR 14' SLAB U.O.N. ON PLAN.
4. EMR REACTIONS SHOWN ARE ULTIMATE LOADS PER YOUR DRAWING W/ DATED 08/08/14.
5. SEE MEP DRAWINGS FOR SUPPORT DETAIL. MIN BEARING AREA ON SLAB TO BE 5'x3'.
6. FOR BALANCE OF NOTES SEE DRAWING S-210.

KEY:

[] INDICATES AREA OF SLEEVES. REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.

[] INDICATES ADDL. REINF. FOR LATERAL LOADS. SEE TYPICAL FLAT PLATE DETAIL.

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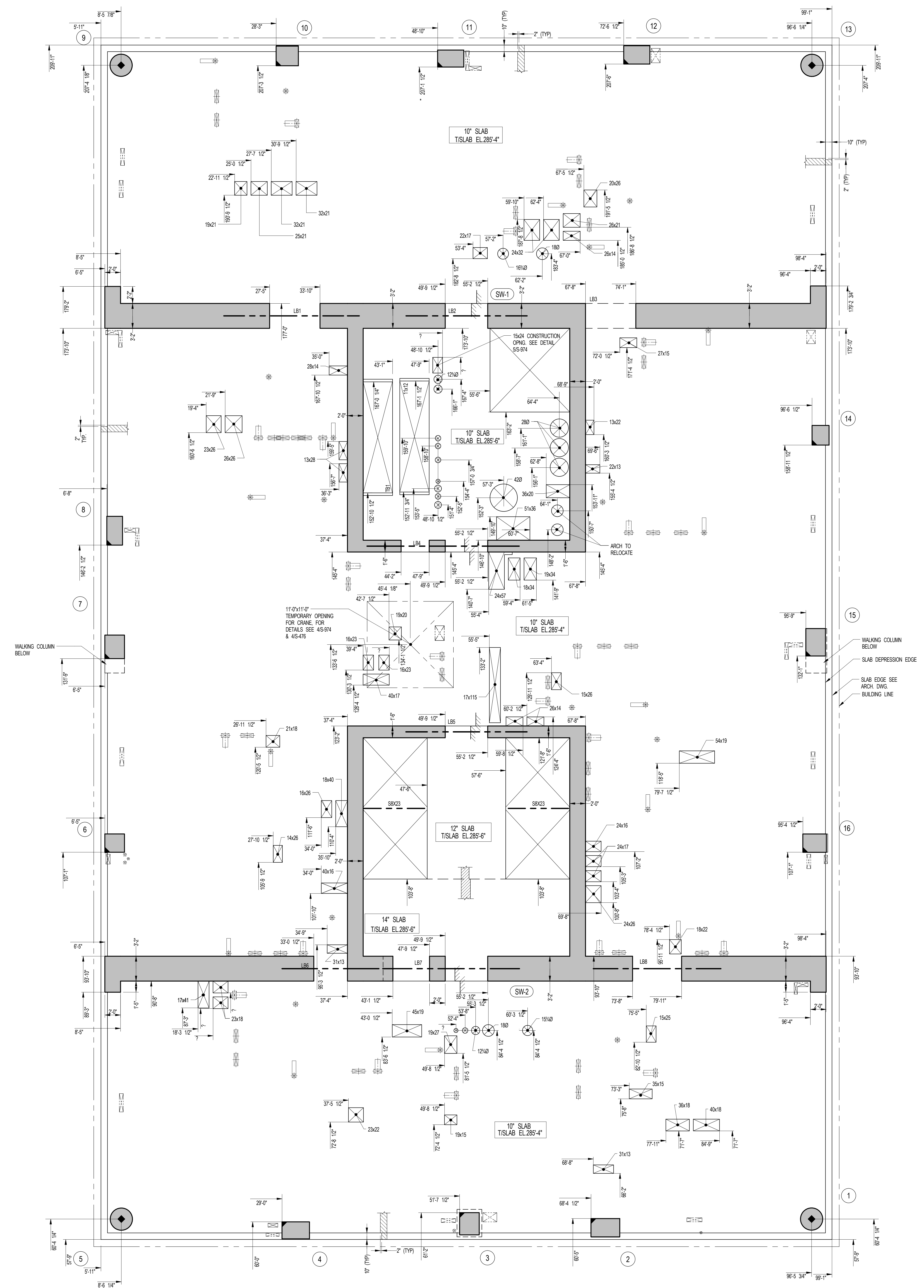
EXTERIOR WALL CONSULTANT:
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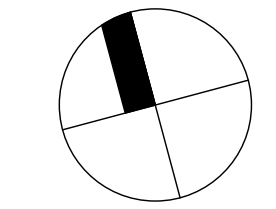
1 21ST FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
- TOP OF SLAB ELEVATION TO BE -286'-4" UON. ON PLAN THIS [Symbol]
 - SLAB TO BE 10" THICK UON THIS [Symbol] ON PLAN.
 - FOR BALANCE OF NOTES SEE DRAWING S-210.

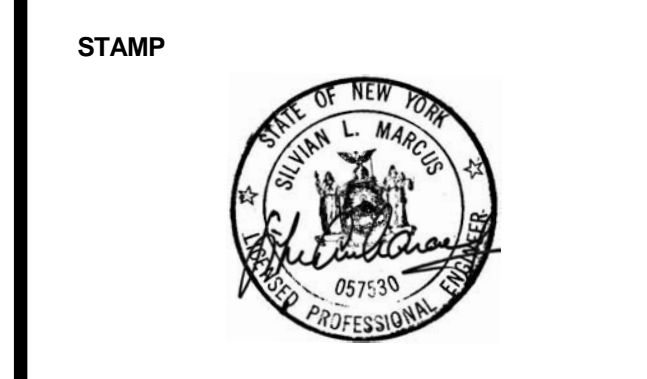
SHEET NOTES:

- WALKING COLUMN BELOW
- SLAB DEPRESSION EDGE
- SLAB EDGE SEE ARCH DWG BUILDING LINE

KEY PLAN



NO.	ISSUE SET	REV DATE
1	70% CD	1 04-27-15
2	85% CD	2 07-02-15
3	85% CD	3 11-24-15
4	PAA #2	4 01-28-16
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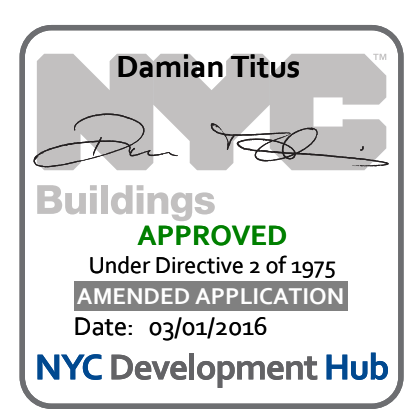
DATE OF PRINT:
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DRAWING SCALE:
3/16" = 1'-0"

PROJECT NUMBER:
2012068

TITLE:
21ST FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.:
S-219.00



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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	FINAL SD ISSUE	1 11-25-13
2	REVISED SD	2 08-22-14
3	SUPERSTRUCTURE EARLY BID	3 11-17-14
4	SET	4 12-22-14
5	DESIGN DEVELOPMENT SET	5 12-23-14
6	NYCT SUBMISSION	6 01-29-15
7	UPDATED DOB SET	7 04-27-15
8	70% CD	8 07-02-15
9	85% CD	9 11-24-15
10	90% CD	10 01-26-16
11	PPA #2	
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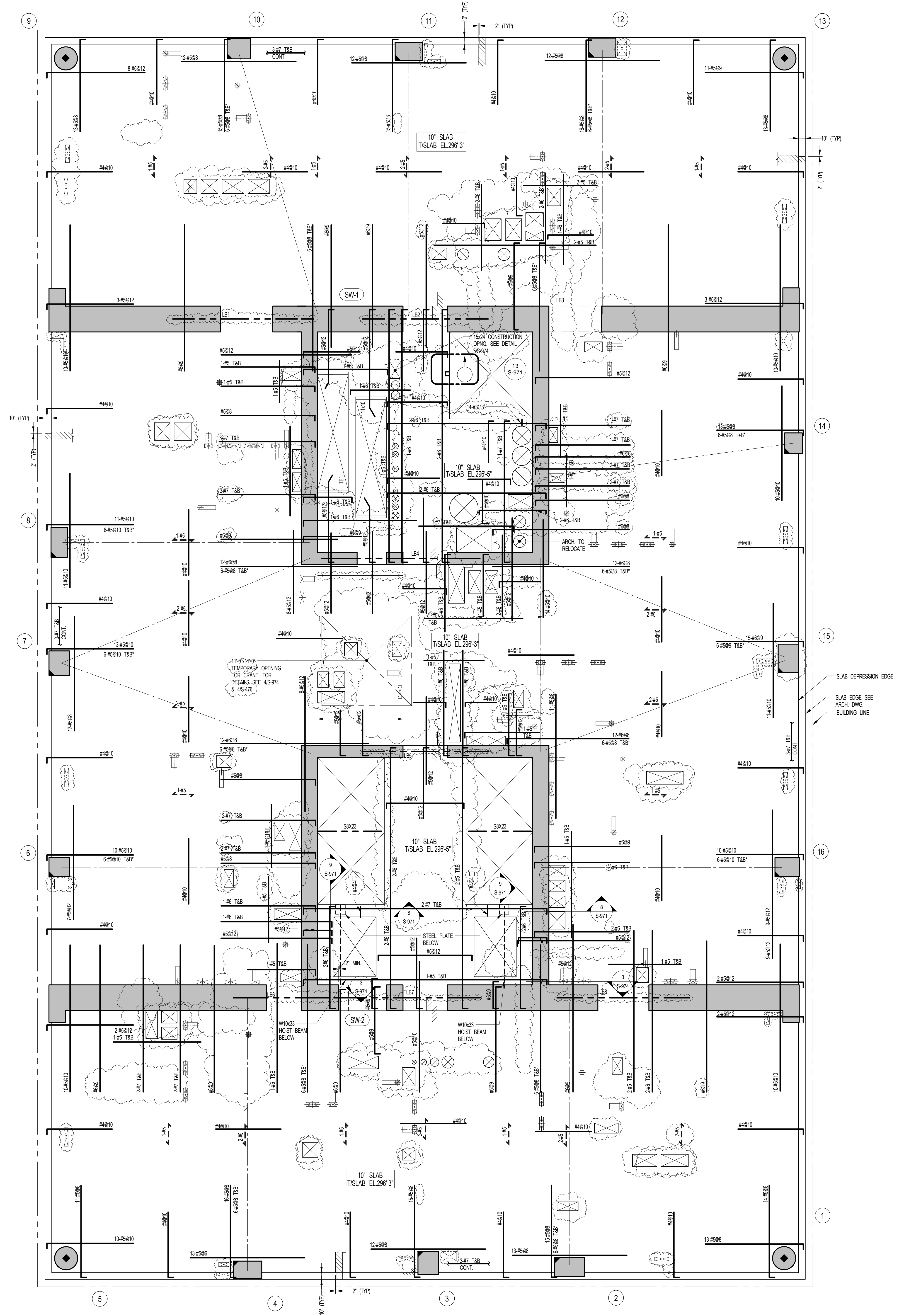
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DRAWING SCALE:
As indicated

PROJECT NUMBER:

TITLE:
22ND FLOOR FRAMING PLAN

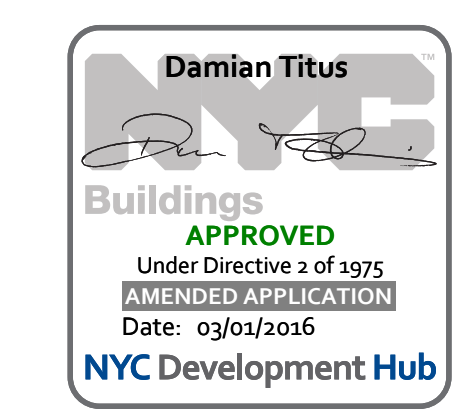
DRAWING NO.:
S-220.01



1 22ND FLOOR FRAMING PLAN
S-220 SCALE: 3/16" = 1'-0"

- NOTES:**
1. TS/LAB ELEVATION TO BE 296'-3" U.O.N. ON PLAN THUS
 2. SLAB THICKNESS TO BE 10" U.O.N. ON PLAN
 3. BOTTOM MESH REINFORCEMENT TO BE #4@10" CONT. EW. FOR 10" SLAB U.O.N. ON PLAN
 4. FOR BALANCE OF NOTES SEE DRAWING S-010.

- KEY:**
- INDICATES AREA OF SLEEVES REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.
 - INDICATES ADD. REINF. FOR LATERAL LOADS. SEE TYPICAL PLAT PLATE DETAIL.



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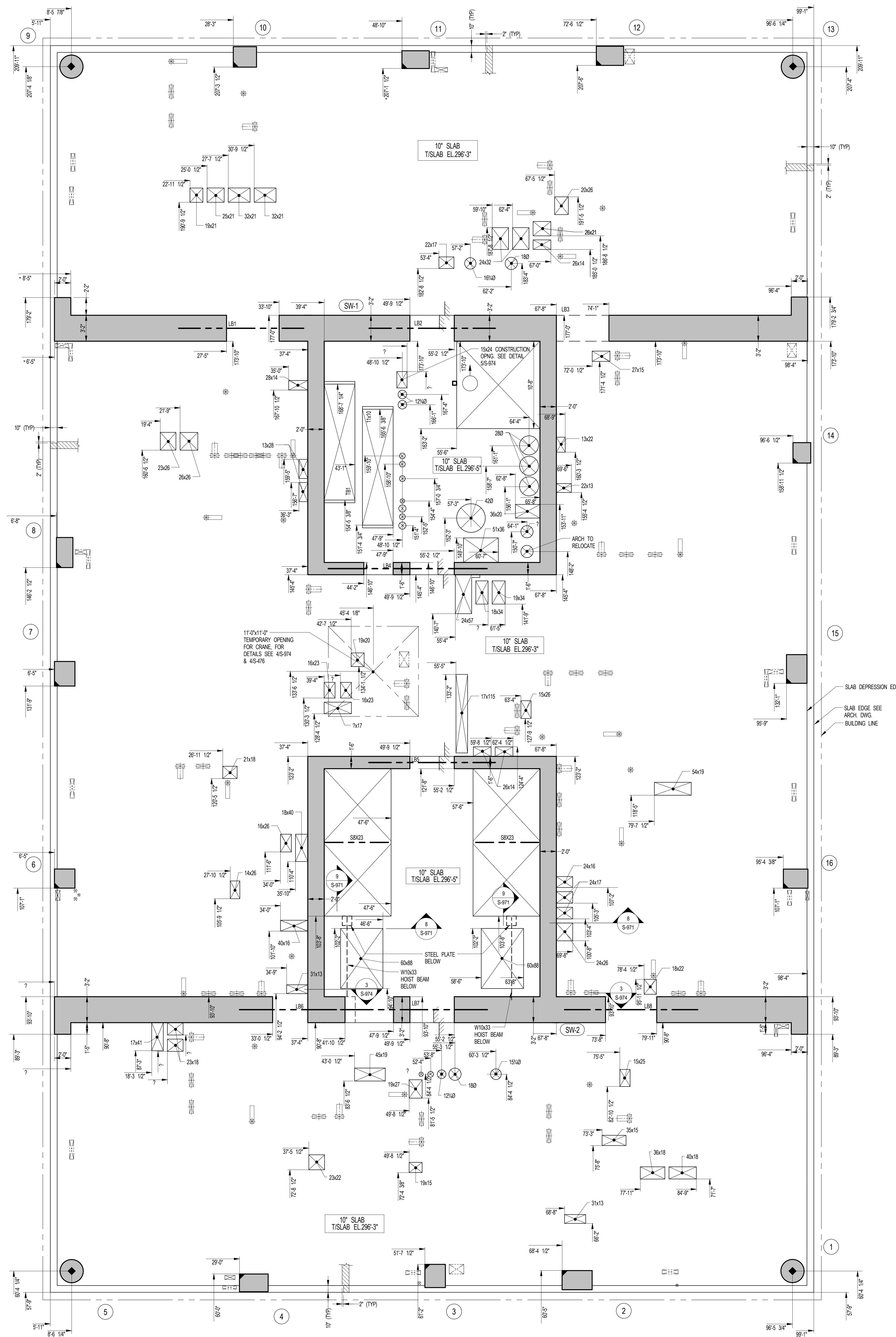
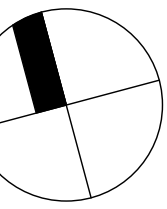
ACOUSTICAL CONSULTANTS:
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SHEET NOTES:

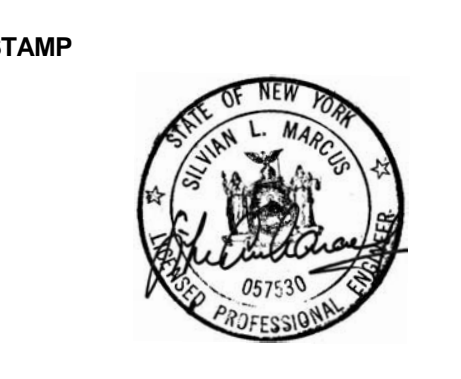
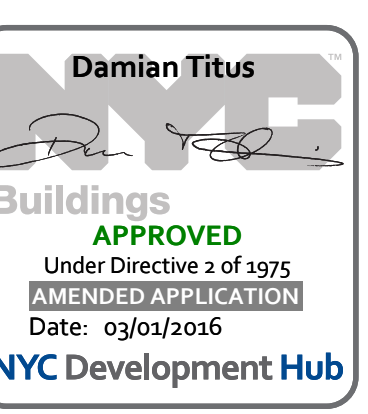
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2	S/E/T	
3	70% C/D	2 04-27-15
4	80% C/D	3 07-02-15
5	90% C/D	4 11-24-15
6	PAA #2	5 01-26-16
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KEY PLAN



1 22ND FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
- TOP OF SLAB ELEVATION TO BE +296.3' U.O.N. ON PLAN, THIS [] ON PLAN.
 - SLAB TO BE 10" THICK U.O.N. THIS [] ON PLAN.
 - FOR BALANCE OF NOTES CORRESPONDING DRAWING PLAN.



DATE OF PRINT
1/26/2016 5:26:58 PM

DRAWING SCALE
3/16" = 1'-0"

PROJECT NUMBER

TITLE
22ND FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.
S-229.00

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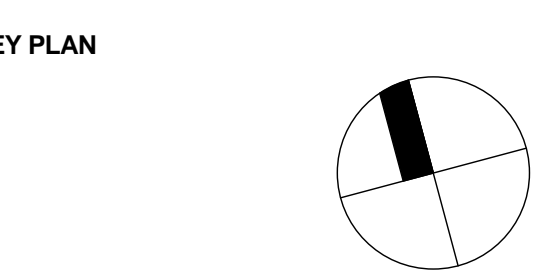
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SHEET NOTES:



NO	ISSUE SET	REV DATE
1	FINAL SD ISSUE	1 11-25-13
2	REVISED SD	2 08-22-14
3	SUPERSTRUCTURE EARLY BID	3 11-17-14
4	SET	4 01-22-14
5	DESIGN DEVELOPMENT SET	4 12-22-14
6	NYCT SUBMISSION	5 12-23-14
7	UPDATED DOB SET	6 01-29-15
8	TRACED	7 04-27-15
9	85% CD	8 07-02-15
10	90% CD	9 11-24-15
11	PA1-#2	10 01-26-16



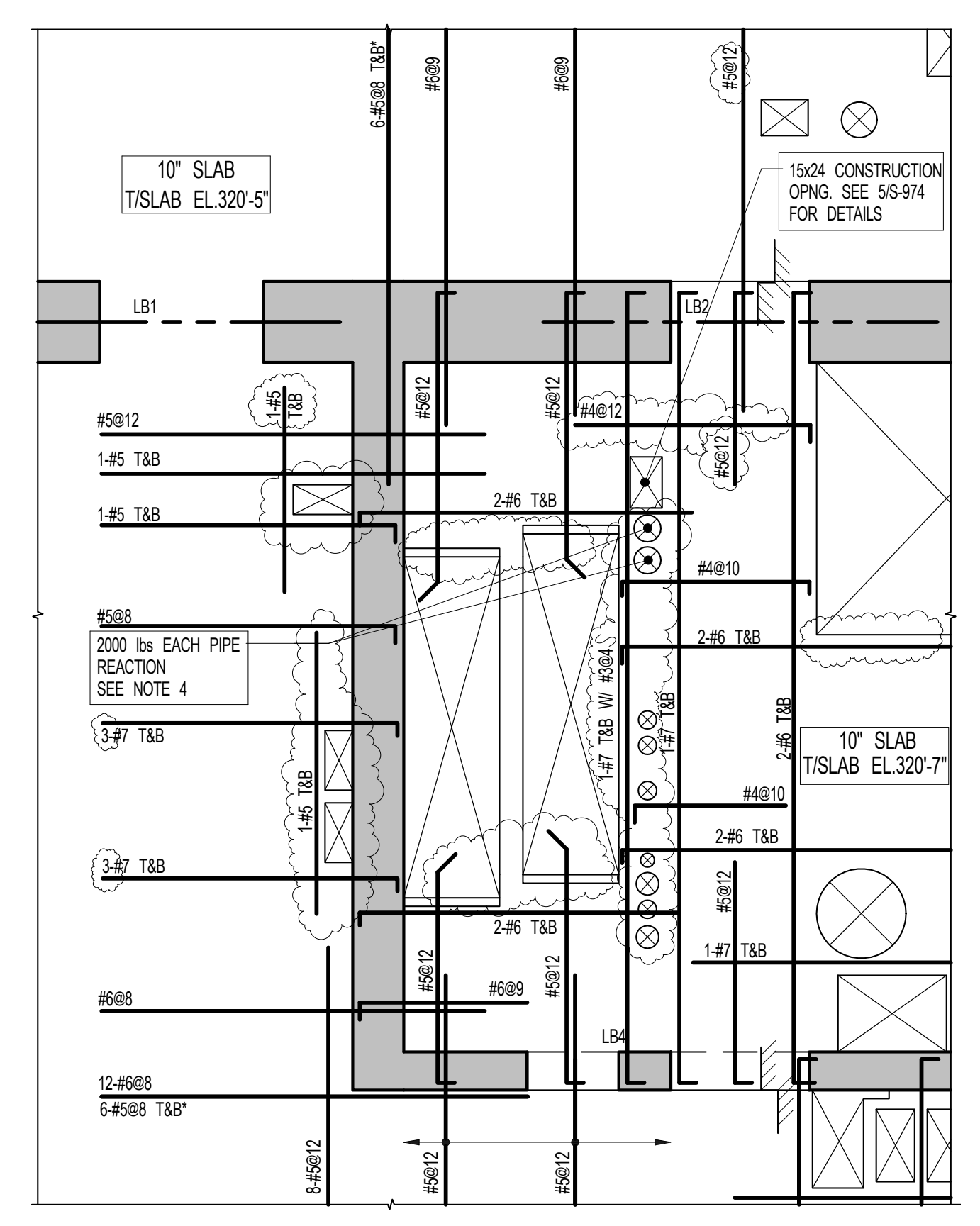
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DRAWING SCALE:
3/16" = 1'-0"

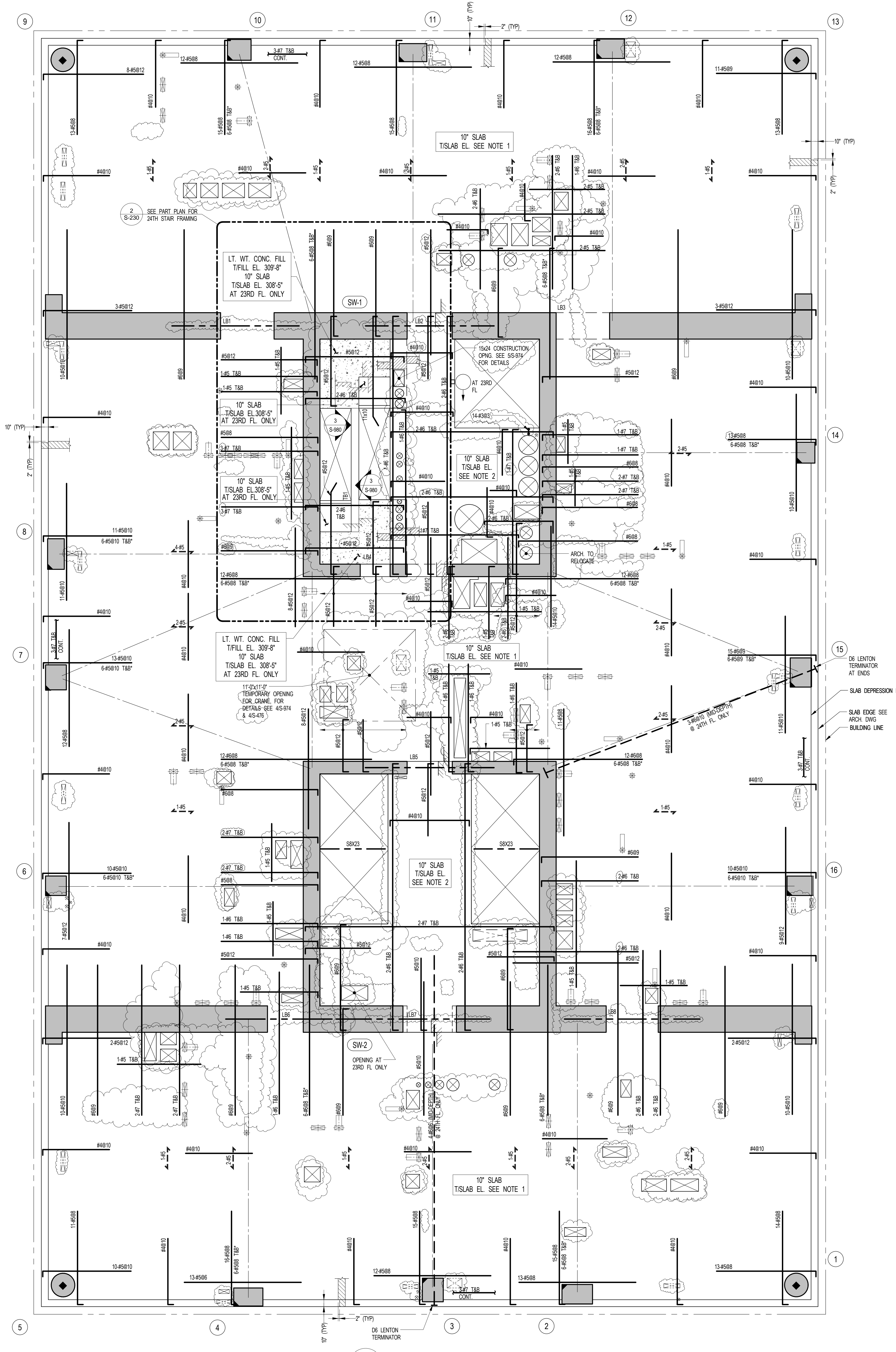
PROJECT NUMBER:

TITLE:
23RD-24TH FLOOR FRAMING PLAN

DRAWING NO.:
S-230.01



2 24TH FLOOR PART PLAN @ STAIRS
SCALE: 3/16" = 1'-0"
NOTE:
1. SEE 15-230 FOR BALANCE OF INFORMATION

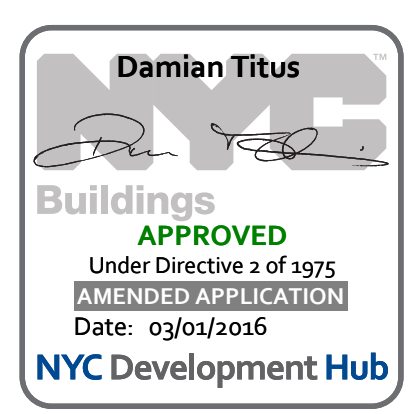


1 23RD - 24TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. TISLAB ELEVATION TO BE 309'-6" @ 23RD FLOOR U.O.N.
307'-6" @ 24TH FLOOR U.O.N.
 2. TISLAB ELEVATION TO BE 2" HIGHER THAN THE TISLAB ELEVATION INDICATED IN NOTE 1.
 3. SLAB THICKNESS TO BE 10" U.O.N. TRAD. ON RAMP.
 4. BOTTOM MESH REINFORCEMENT TO BE #8@10 CONT. E.W. FOR 10" SLAB U.O.N. ON RAMP.
 5. SEE MEP DRAWINGS FOR SUPPORT DETAIL. MIN BEARING AREA ON SLAB TO BE 3'x3'.
 6. FOR BALANCE OF NOTES SEE DRAWING 510.

KEY:

- INDICATES AREA OF SLEEVES REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.
- INDICATES ADDL. REINF. FOR LATERAL LOADS SEE TYPICAL PLAT PLATE DETAIL



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SHEET NOTES:

KEY PLAN



NO	ISSUE SET	REV DATE
1	70% CD	1 04-27-15
2	85% CD	2 07-02-15
3	95% CD	3 11-24-15
4	PAA #2	4 01-28-16
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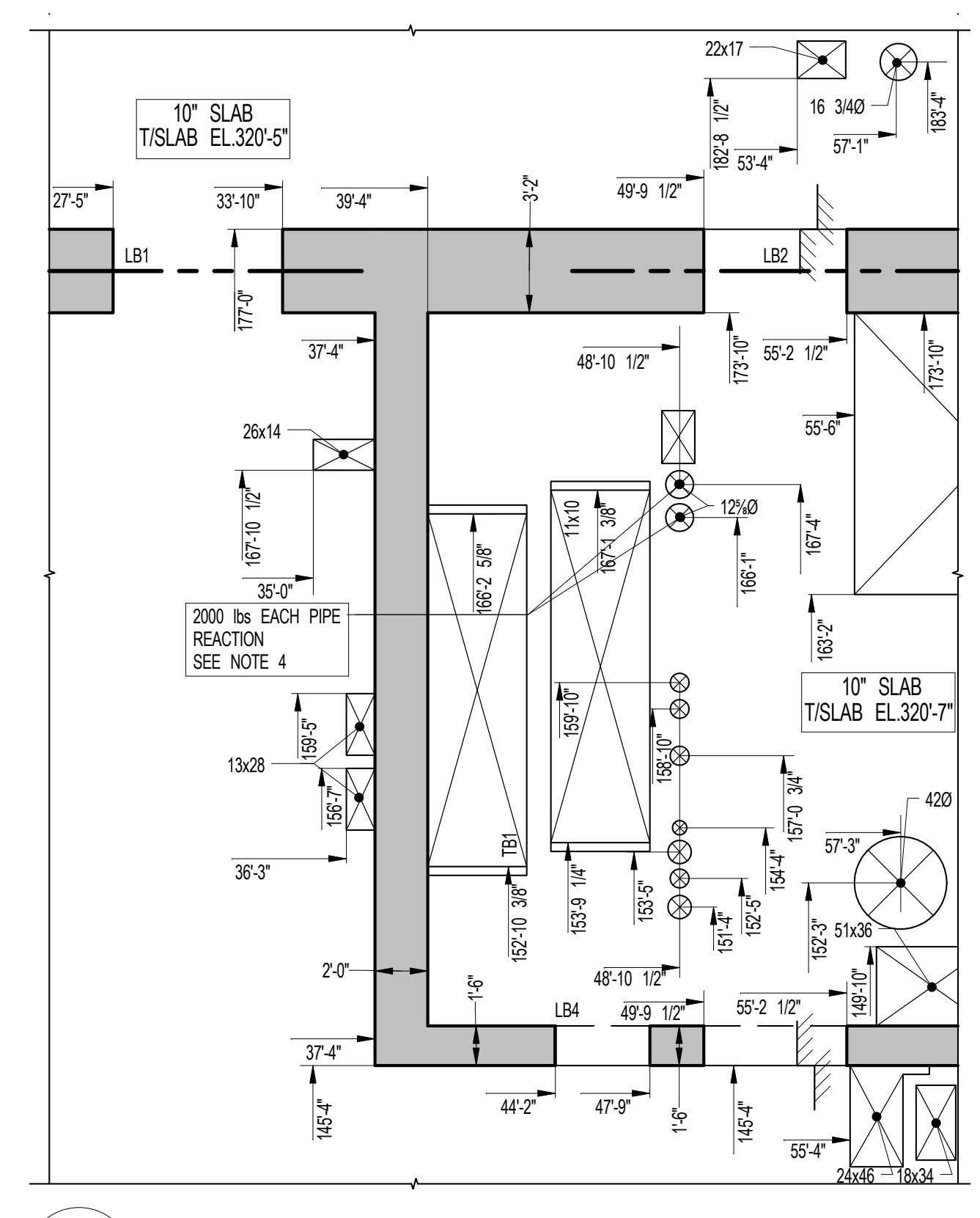
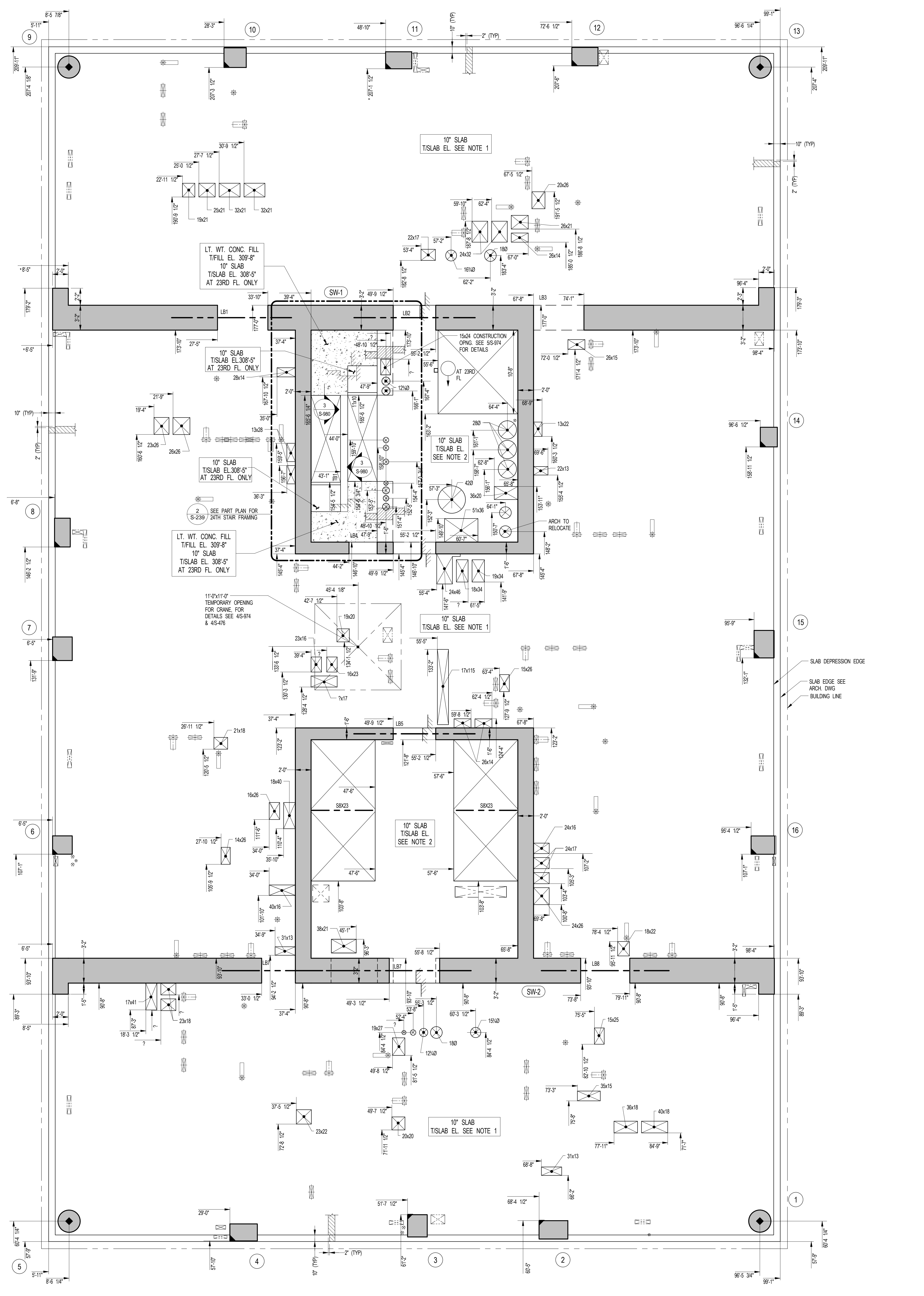
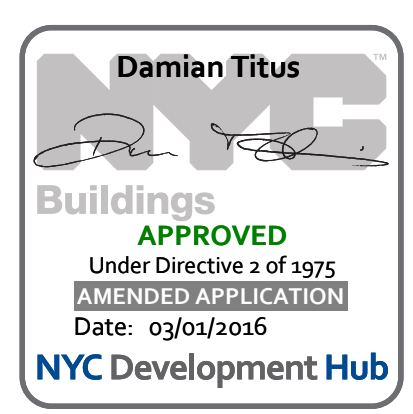
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DRAWING SCALE
3/16" = 1'-0"

PROJECT NUMBER

TITLE
23RD-24TH FLOOR GENERAL
ARRANGEMENT PLAN

DRAWING NO.
S-239.00



2 24TH FLOOR PART GENERAL ARRANGEMENT PLAN @ STAIRS
SCALE: 3/16" = 1'-0"
NOTES:
1. SEE 15-238 FOR BALANCE OF INFORMATION

1 23RD - 24TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
- TOP OF SLAB ELEVATION TO BE 309'-6" @ 23RD FLOOR U.O.N.
 - TOP OF SLAB ELEVATION TO BE 320'-0" @ 24TH FLOOR U.O.N.
 - SLAB TO BE 10" THICK U.O.N. THIS PLAN.
 - FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

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21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	FINAL SD ISSUE	1 11-25-13
2	REVISED SD	2 08-22-14
3	SUPERSTRUCTURE EARLY BID	3 11-17-14
4	SET	4 12-22-14
5	DESIGN DEVELOPMENT SET	5 12-23-14
6	NYCT SUBMISSION	6 01-29-15
7	UPDATED DOB SET	7 04-27-15
8	TRACED	8 07-02-15
9	85% CD	9 11-24-15
10	90% CD	10 01-26-16
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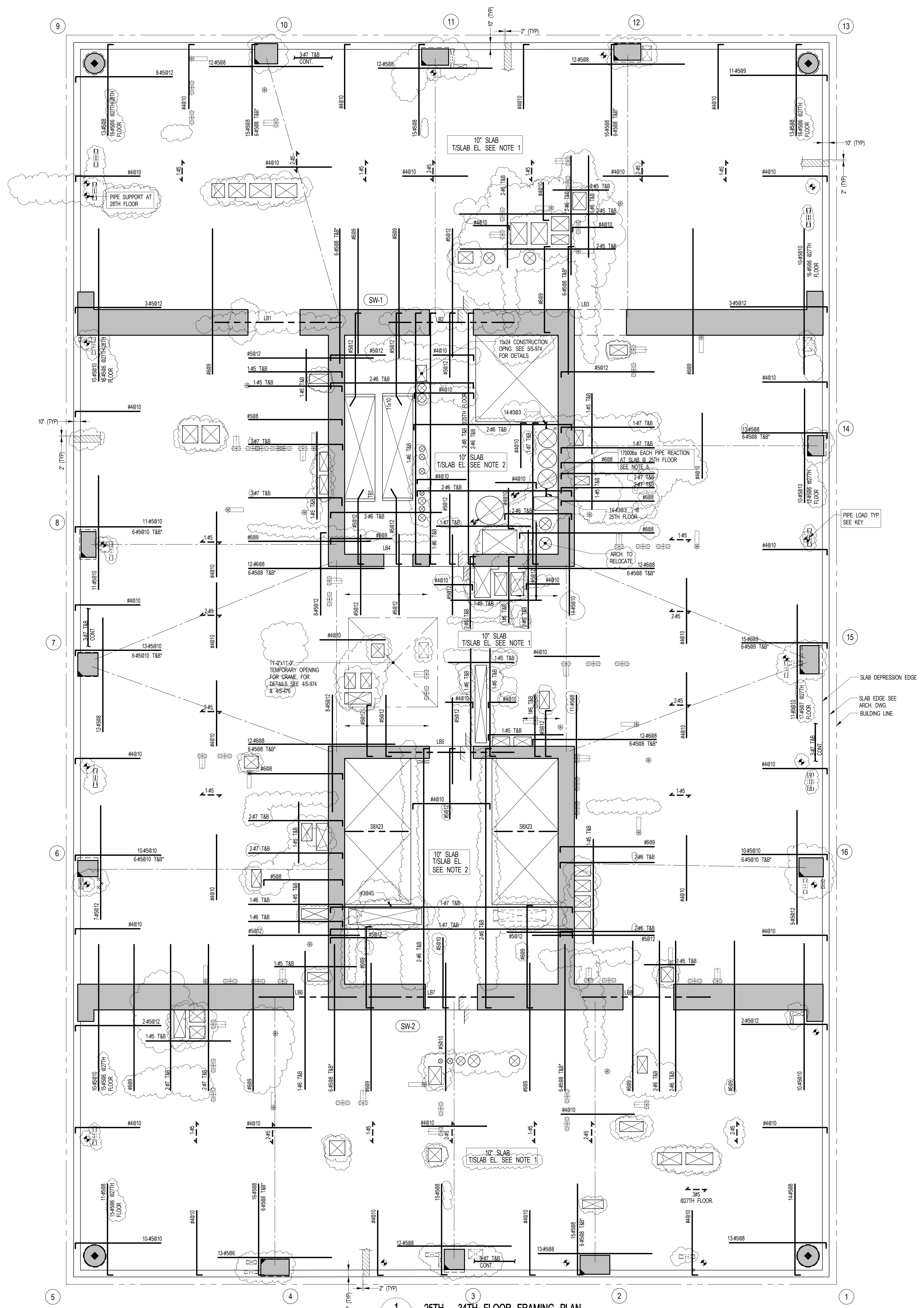
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DRAWING SCALE
As Indicated

PROJECT NUMBER

TITLE
25TH-34TH FLOOR FRAMING PLAN

DRAWING NO.
S-250.01



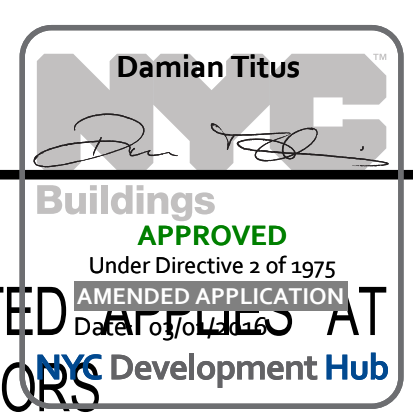
25TH - 34TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"
S-250

- NOTES:**
1. 15x48 ELEVATION TO BE 331'-4" @ 25TH FLOOR U.O.N.
342'-3" @ 26TH FLOOR U.O.N.
353'-2" @ 27TH FLOOR U.O.N.
364'-1" @ 28TH FLOOR U.O.N.
375'-0" @ 29TH FLOOR U.O.N.
385'-1" @ 30TH FLOOR U.O.N.
395'-0" @ 31ST FLOOR U.O.N.
407'-0" @ 32ND FLOOR U.O.N.
418'-8" @ 33RD FLOOR U.O.N.
429'-7" @ 34TH FLOOR U.O.N. THIS IS ON PLAN.
 2. 15x48 ELEVATION TO BE 2" HIGHER THAN THE 15x48 ELEVATION INDICATED IN NOTE 1.
 3. SLAB THICKNESS TO BE 10" U.O.N. THIS IS ON PLAN.
 4. BOTTOM MESH REINFORCEMENT TO BE #4@10" CONT. E.W. FOR 10" SLAB U.O.N. ON PLAN.
 5. SEE MEP DRAWINGS FOR SUPPORT DETAIL, MIN. BEARING AREA ON SLAB TO BE 500".
 6. FOR BALANCE OF NOTES SEE DRAWING 5010.

KEY:

- INDICATES AREA OF SLEEVES. REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.
- INDICATES ADDL. REIN. FOR LATERAL LOADS. SEE TYPICAL FLAT PLATE DETAIL.
- INDICATES 1000lb EACH PIPE REACTION ON SLAB @ 27TH FL. MIN. BEARING AREA ON SLAB. FLAT SEE MEP DRAWINGS FOR SUPPORT DETAIL.

NOTE:
REIN. INDICATED AT 25TH-34TH FLOORS



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SHEET NOTES:

KEY PLAN

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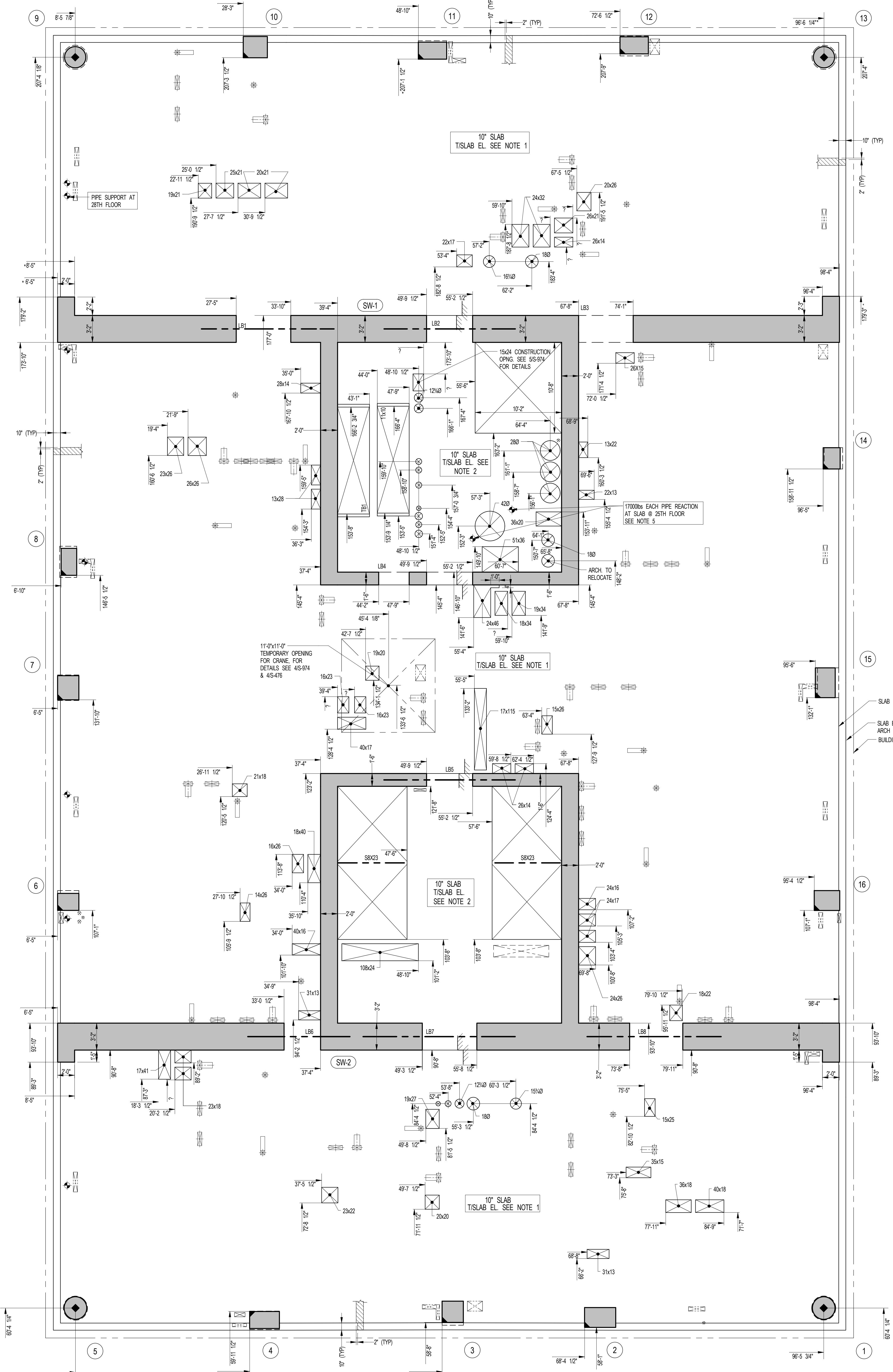
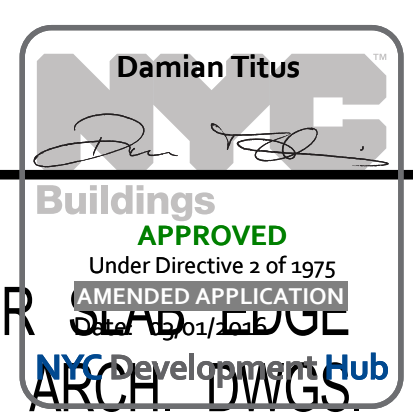
DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
25TH-34TH FLOOR GENERAL
ARRANGEMENT PLAN

DRAWING NO.
S-259.00

NOTE:
FOR PERIMETER
LOCATION SEE ARCH DWGS.



1 25TH - 34TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
- TOP OF SLAB ELEVATION TO BE:
 - 331'-4" @ 25TH FLOOR U.O.N.
 - 342'-0" @ 26TH FLOOR U.O.N.
 - 353'-2" @ 27TH FLOOR U.O.N.
 - 364'-1" @ 28TH FLOOR U.O.N.
 - 375'-0" @ 29TH FLOOR U.O.N.
 - 385'-11" @ 30TH FLOOR U.O.N.
 - 396'-10" @ 31ST FLOOR U.O.N.
 - 407'-9" @ 32ND FLOOR U.O.N.
 - 418'-8" @ 33RD FLOOR U.O.N.
 - 429'-7" @ 34TH FLOOR U.O.N.
 - SLAB ELEVATION TO BE 2" HIGHER THAN THE SLAB ELEVATION INDICATED IN NOTE
 - SLAB TO BE 10" THICK U.O.N. THIS PLAN
 - FOR BANKS OF NOTES SEE CORRESPONDING FRAMING PLAN

4 PART PLAN AT 32ND FLOOR
SCALE: 3/16" = 1'-0"

3 PART PLAN AT 28TH FLOOR
SCALE: 3/16" = 1'-0"

2 PART PLAN AT 30TH FLOOR
SCALE: 3/16" = 1'-0"

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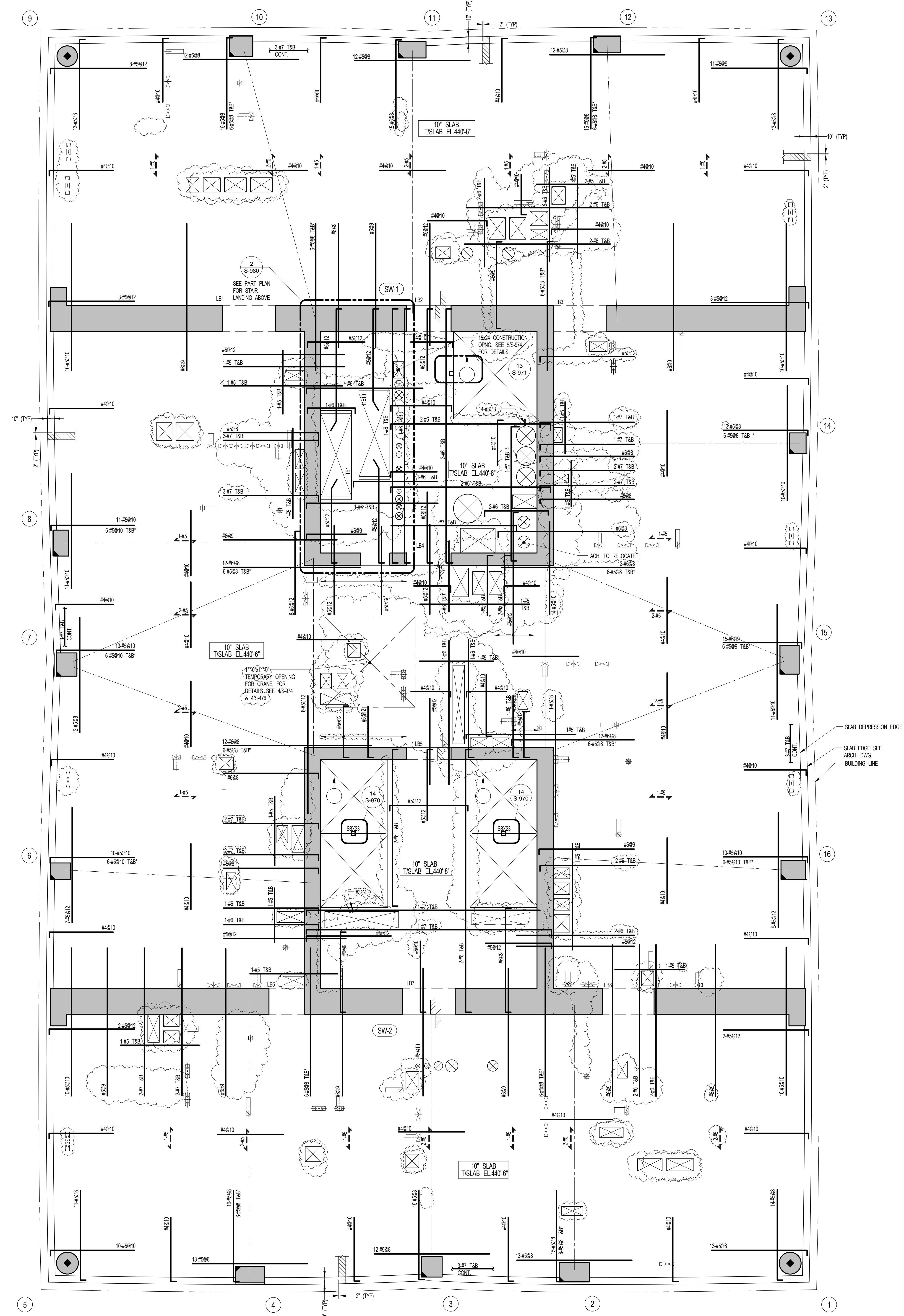
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1
S-350
35TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

NOTES:
1. TISLAB ELEVATION TO BE 447'-6" U.O.N. ON PLAN THIS...
2. SLAB THICKNESS TO BE 10" U.O.N. THIS... ON PLAN
3. BOTTOM MESH REINFORCEMENT TO BE #4@10 CONT. E.W. FOR 10' SLAB U.O.N. ON PLAN
4. FOR BALANCE OF NOTES SEE DRAWING 5-10

KEY:
INDICATES AREA OF SLEEVES REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES
INDICATES ADDL REINF. FOR LATERAL LOADS. SEE TYPICAL FLAT PLATE DETAIL.

SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	FINAL SD ISSUE	1 11-25-13
2	REVISED SD	2 08-22-14
3	SUPERSTRUCTURE EARLY BID	3 11-17-14
4	SET	4 12-22-14
5	DESIGN DEVELOPMENT SET	5 12-23-14
6	NYCT SUBMISSION	6 01-29-15
7	UPDATED DOB SET	7 04-27-15
8	TRUCK	8 07-02-15
9	85% CD	9 11-24-15
10	90% CD	10 01-26-16
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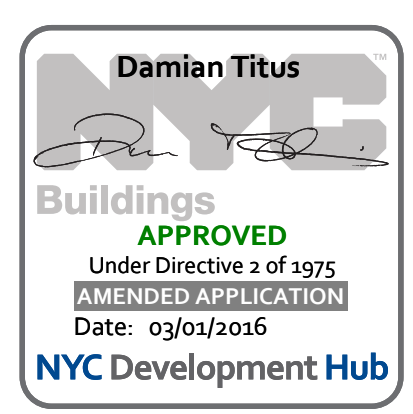
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PROJECT NUMBER

TITLE
35TH FLOOR FRAMING PLAN

DRAWING NO.
S-350.01



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SHEET NOTES:

KEY PLAN

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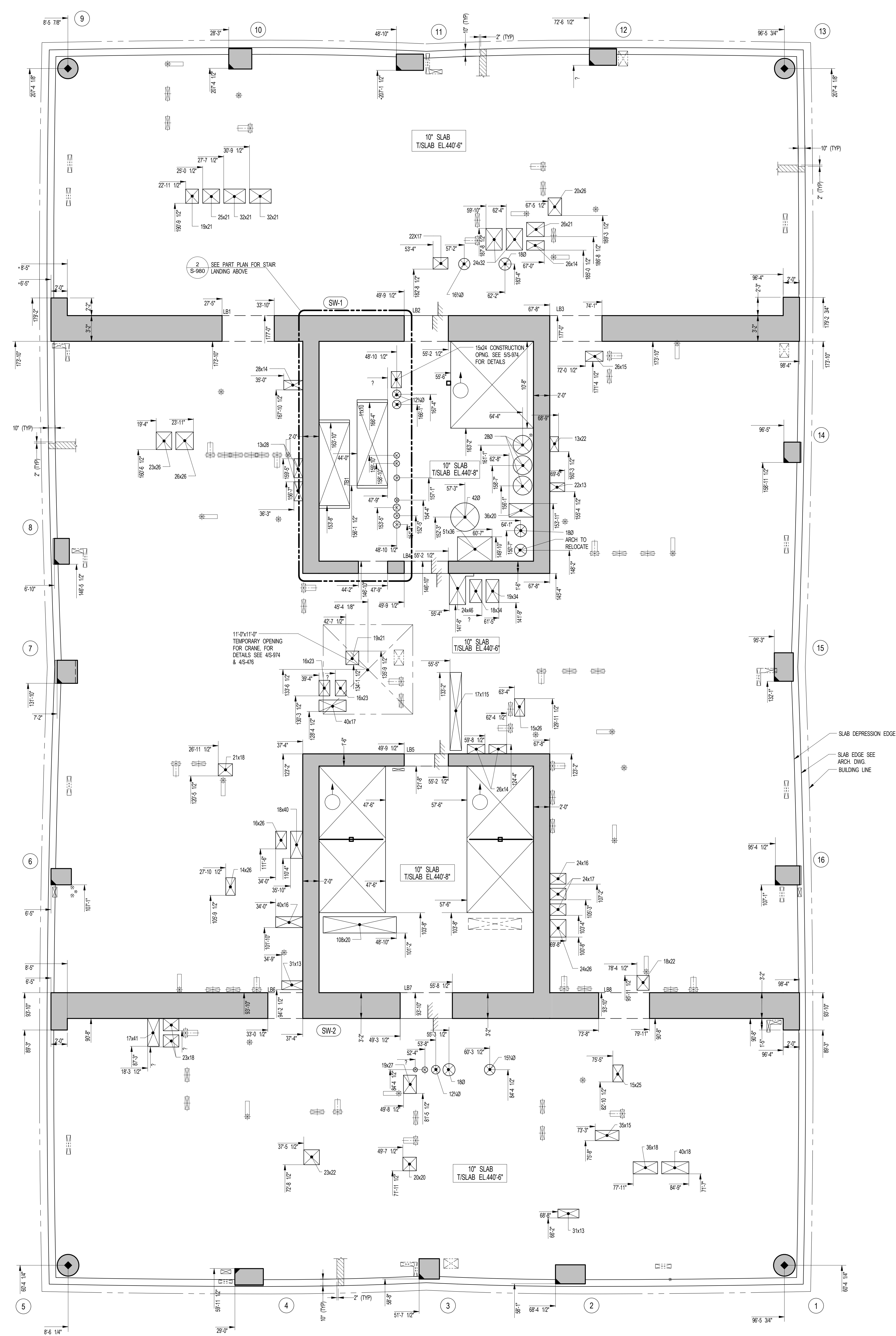
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DRAWING SCALE
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PROJECT NUMBER

TITLE
35TH FLOOR GENERAL ARRANGEMENT
PLAN

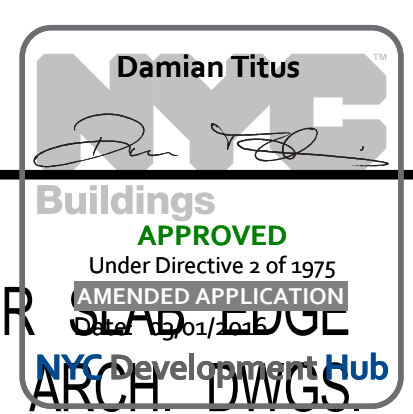
DRAWING NO.
S-359.00



1 35TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
- TOP OF SLAB ELEVATION TO BE -440'-6" U.O.N. ON PLAN THIS [Symbol]
 - SLAB TO BE 10" THICK UNLESS THIS [Symbol] ON PLAN.
 - FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

NOTE:
FOR PERIMETER
LOCATION SEE ARCH DWGS.



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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	FINAL SD ISSUE	11-25-13
2	REVISED SD	2-09-22-14
3	SUPERSTRUCTURE EARLY BID	3-11-17-14
4	SET	
5	DESIGN DEVELOPMENT SET	4-12-22-14
6	NYC SUBMISSION	5-12-22-14
7	UPDATED DOB SET	6-01-29-15
8	TRUCK	7-04-27-15
9	85% CD	8-07-02-15
10	90% CD	9-11-24-15
11	PA&E	10-01-26-16
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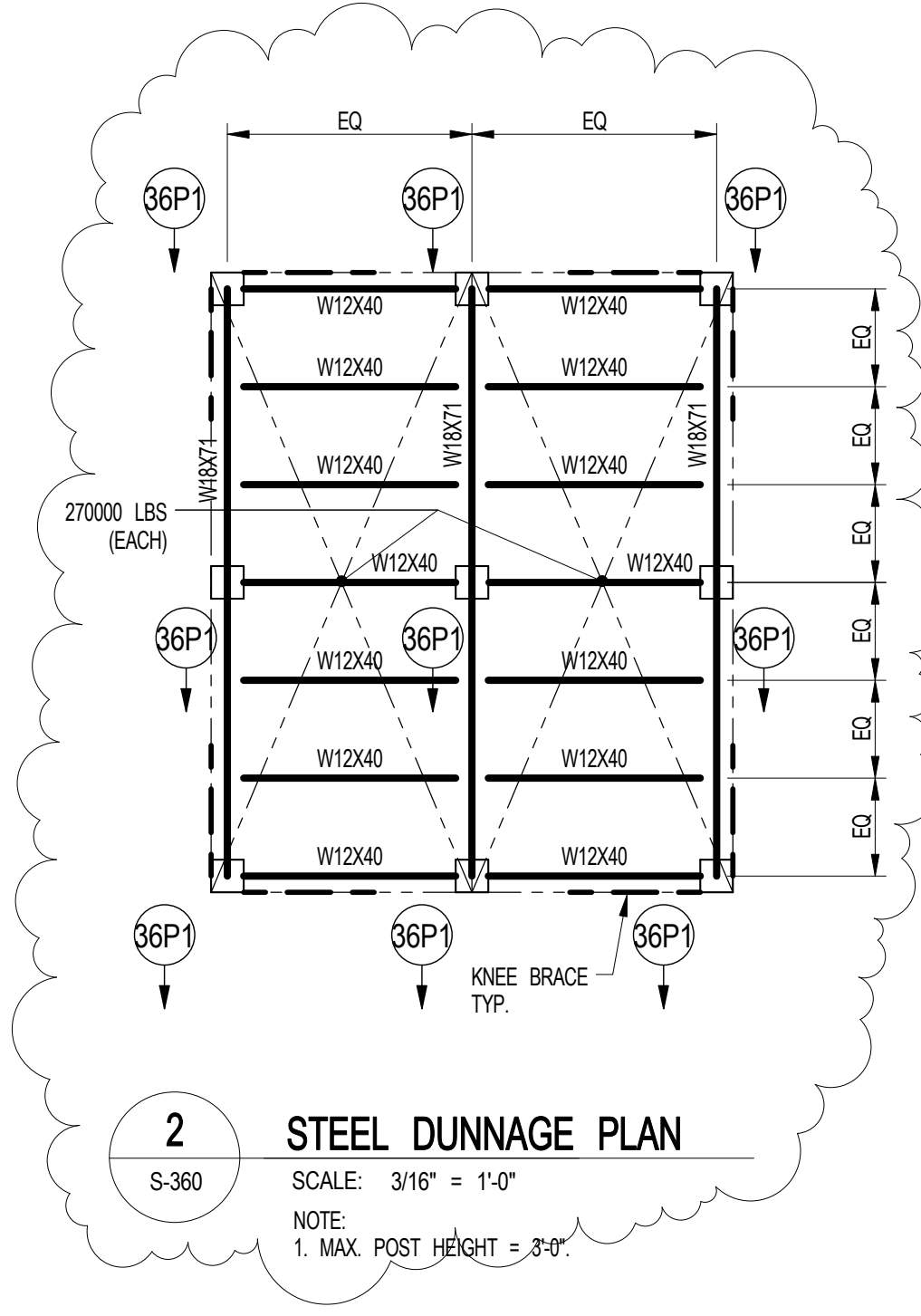
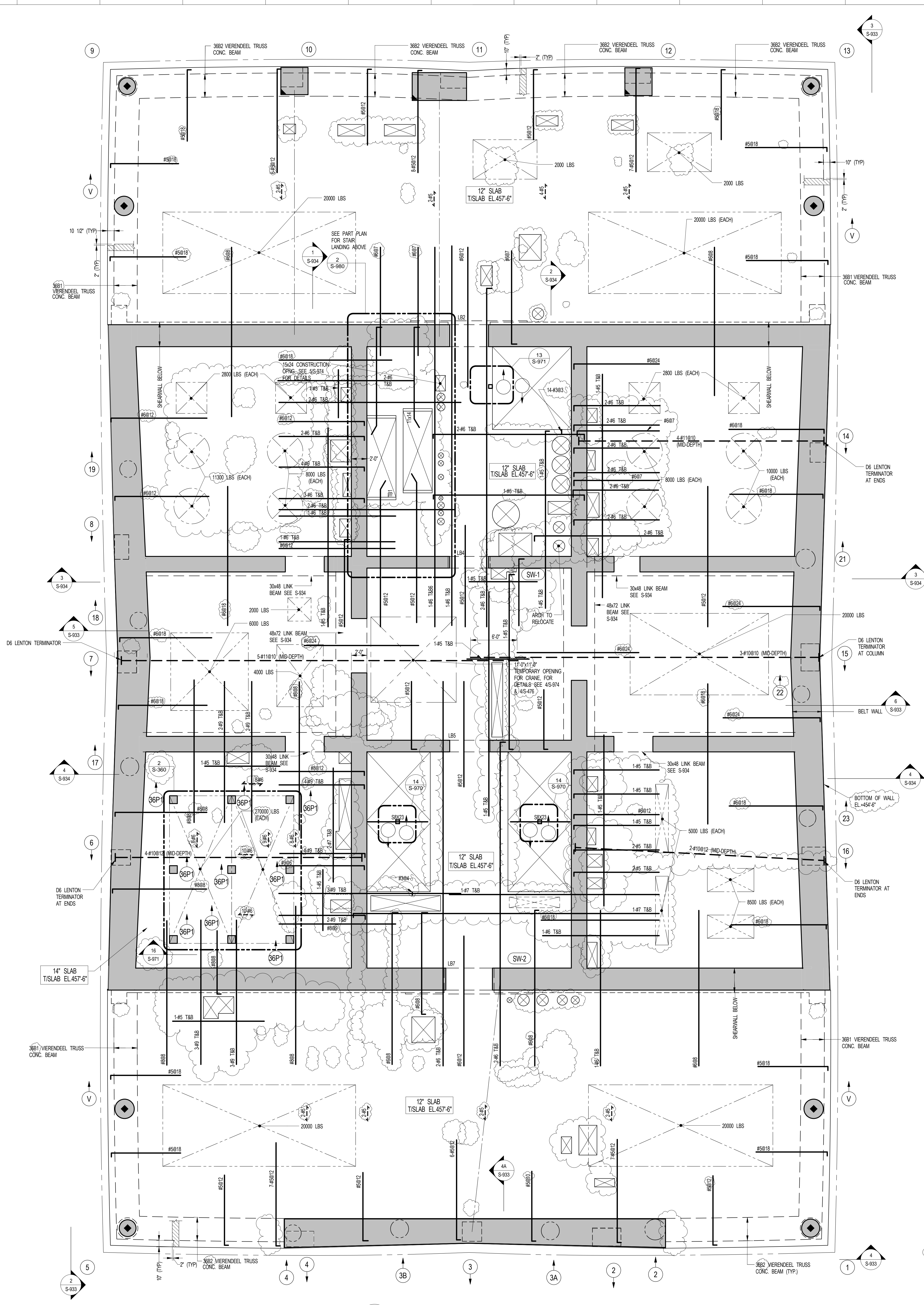
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PROJECT NUMBER
2012088

TITLE
36TH FLOOR (MD MECH. LEVEL 1)
FRAMING PLAN

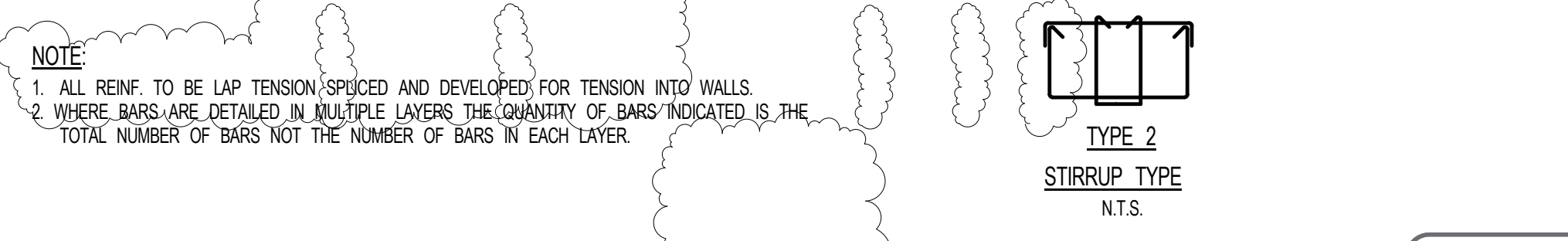
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S-360.01

Damian Titus
Buildings
APPROVED
Under Direction of 2 of 3 yrs.
LICENSED APPLICATION
Date: 03/01/2016
NYC Development Hub



36TH FL. BM SCHEDULE

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT		TOP ADDL. BARS AT SUPPORT	STIRRUPS		REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS		SIZE	SPACING	
36B1	36x48	32#11 (5 LAYERS)	32#11 (5 LAYERS)	2	#5	5	7.45'E.F. SKIN REINF.
36B2	36x48	15#11 (3 LAYERS)	15#11 (3 LAYERS)	2	#5	8	7.45'E.F. SKIN REINF.



1 36TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

NOTES:

1. T/SLAB ELEVATION TO BE 457'-6" U.O.N. ON PLAN THIS _____
2. SLAB THICKNESS TO BE 12" U.O.N. THIS _____ ON PLAN
3. MESH REINFORCEMENT TO BE _____ #5@12" TOP AND BOTTOM CONT. E.W. FOR 12" SLAB U.O.N. ON PLAN _____ #5@12" TOP AND BOTTOM CONT. E.W. FOR 14" SLAB U.O.N. ON PLAN
4. FOR BALANCE OF NOTES SEE DRAWING S-310
5. COLUMN REINF. SHOWN ON THIS DRAWING SHALL BE TENSION SPLICED AND TENSION DEVELOPED. REINF. SHALL BE MECHANICALLY SPLICED AS REQUIRED.

KEY:

- INDICATES AREA OF SLEEVES. REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.
- INDICATES 345 VERENDIEEL TRUSS MEMBER. REINF. WITH #5@11" VERT. FOR TR. USE & SPACING SEE TYP. COL. DETAIL. SEE NOTE 5.

NOTE:

1. ALL REINF. TO BE LAP TENSION SPLICED AND DEVELOPED FOR TENSION INTO WALLS.
2. WHERE BARS ARE DETAIL IN MULTIPLE LAYERS THE QUANTITY OF BARS INDICATED IS THE TOTAL NUMBER OF BARS NOT THE NUMBER OF BARS IN EACH LAYER.

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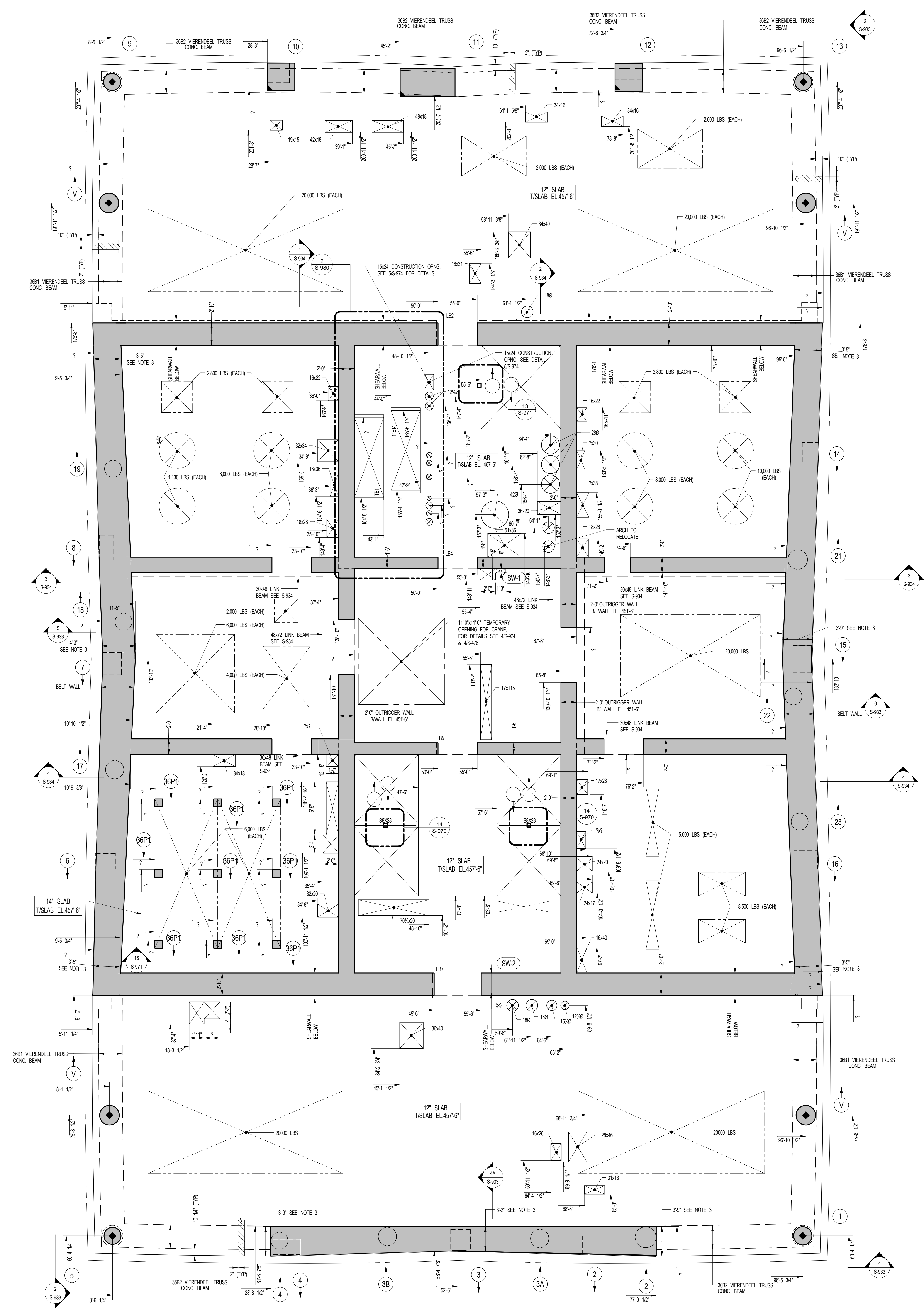
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1 36TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. TOP OF SLAB ELEVATION TO BE +457'-6" U.O.M. ON PLAN THIS
 2. SLAB TO BE 12" THICK U.O.M. THIS
 3. BELT WALL THICKNESS VARIES ON PLAN. INSIDE FACE OF BELT WALL IS VERTICAL OUTSIDE FACE OF WALL SLOPES.
 4. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	70% CD	1. 04-27-15
2	85% CD	2. 07-02-15
3	95% CD	3. 11-24-15
4	PAA #2	4. 01-28-16
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DATE OF PRINT:
1/26/2016 7:25:23 PM

DRAWING SCALE:
As indicated

PROJECT NUMBER:
2012058

TITLE:
36TH FLOOR GENERAL ARRANGEMENT PLAN

NOTE:
FOR PERIMETER LOCATION SEE ARCH DWGS.

DRAWING NO.:
S-369.00

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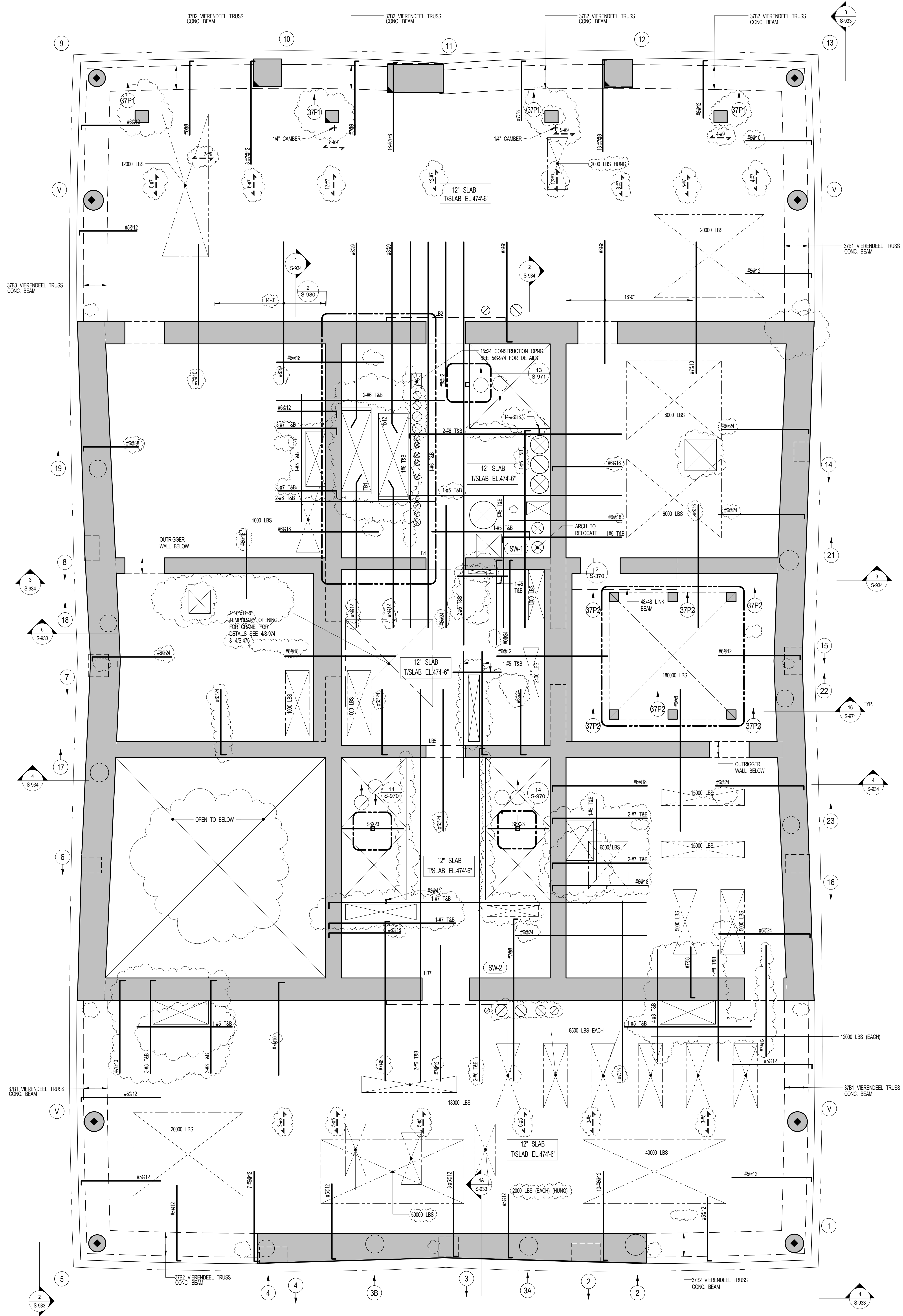
EXTERIOR WALL CONSULTANT:
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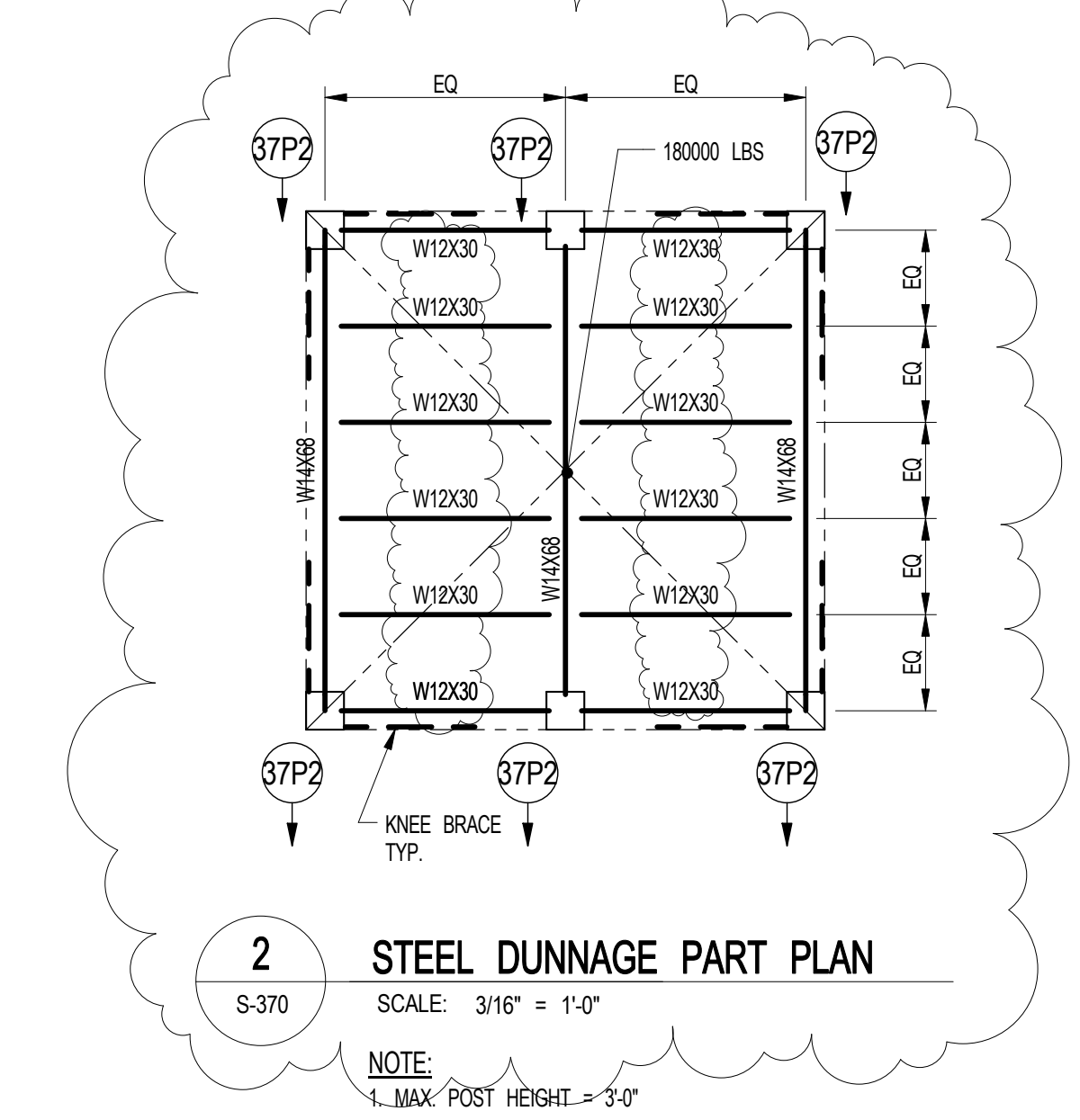
LANDSCAPE DESIGNER:
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1 37TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

- KEY:**
- 1. TSJAB ELEVATION TO BE 491'-4" U.O.N. ON PLAN THIS []
 - 2. SLAB THICKNESS TO BE 12" U.O.N. THIS [] ON PLAN
 - 3. WESH REINFORCEMENT TO BE #5@12" TOP & BOTTOM CONT. E.W. FOR 12" SLAB U.O.N. ON PLAN
 - 4. FOR BALANCE OF NOTES SEE DRAWING S-370.
 - 5. COLUMN REIN. SHOWN ON THIS DRAWING SHALL BE TENSION SPICED AND TENSION DEVELOPED REIN. SHALL BE MECHANICALLY SPICED AS REQUIRED.

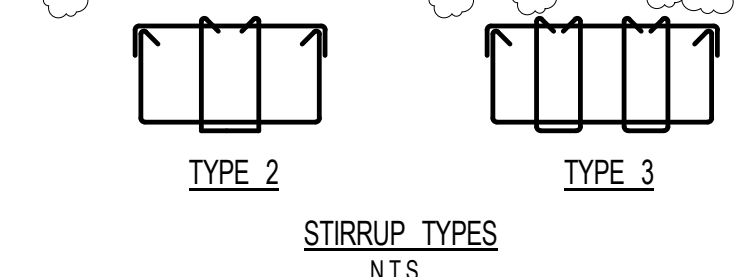
- INDICATES AREA OF SLEEVES REAR TO BE CONTIGUOUS AND PLACED BETWEEN SLEEVES
- INDICATES #40 VERENDEEL TRUSS MEMBER REIN. WITH #41 VERT. FOR THE SIZE & SPACING SEE TYP. COLL. DETAIL, SEE NOTE 5.



2 STEEL DUNNAGE PART PLAN
SCALE: 3/16" = 1'-0"

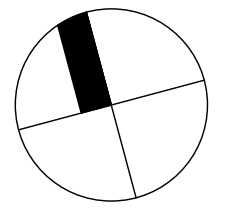
NOTE:
1. MAX. POST HEIGHT = 3'-0"

37TH FL. BM SCHEDULE										
BEAM MARK	SIZE (WxD) (IN)	REINFORCEMENT				STIRRUPS				REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TOP ADD'L BARS AT SUPPORT	HL	HL	HL	SPACING		
37B1	30x48	30-#11 (3 LAYERS)	30-#11 (3 LAYERS)		2	2	2	8	7-#5 E.F. SKIN REIN. SEE NOTE 1	
37B2	30x48	15-#11 (3 LAYERS)	15-#11 (3 LAYERS)		2	2	8	7-#5 E.F. SKIN REIN. SEE NOTE 1		
37B3	30x48	32-#11 (5 LAYERS)	32-#11 (5 LAYERS)		2	2	8	7-#5 E.F. SKIN REIN. SEE NOTE 1		



NOTE:
1. ALL LONGITUDINAL REIN. TO BE LAP TENSION SPICED AND DEVELOPED FOR TENSION INTO WALLS.
2. WHERE BARS ARE DETAILED IN MULTIPLE LAYERS THE QUANTITY OF BARS INDICATED IS THE TOTAL NUMBER OF BARS NOT THE NUMBER OF BARS IN EACH LAYER.

KEY PLAN



NO.	ISSUE SET	REV DATE
1	FINAL SD ISSUE	11-25-13
2	REVISED SD	2-09-22-14
3	SUPERSTRUCTURE EARLY BID	3-11-17-14
4	SET	
5	DESIGN DEVELOPMENT SET	4-12-22-14
6	NYCT SUBMISSION	5-12-23-14
7	UPDATED DOB SET	6-01-29-15
8	TRN/CD	7-04-27-15
9	85% CD	8-07-02-15
10	95% CD	9-11-24-15
11	PA#42	10-01-26-16
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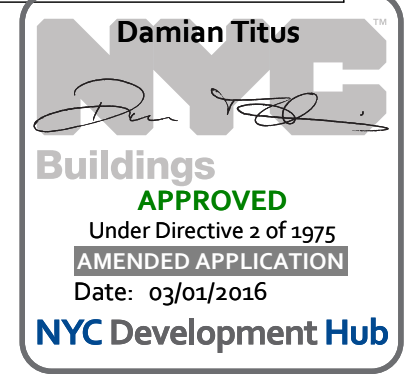
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12/26/2016 7:27:50 PM

DRAWING SCALE:
As indicated

PROJECT NUMBER:
2012058

TITLE:
37TH FLOOR (MD MECH. LEVEL 2)
FRAMING PLAN

DRAWING NO.:
S-370.01



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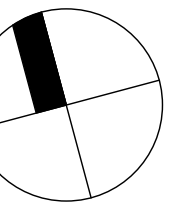
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SHEET NOTES:

KEY PLAN



NO. ISSUE SET REV DATE

NO.	ISSUE SET	REV DATE
1	70% CD	1. 04-27-15
2	85% CD	2. 07-02-15
3	95% CD	3. 11-24-15
4	PAA #2	4. 01-26-16
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DRAWING SCALE

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PROJECT NUMBER

2012088

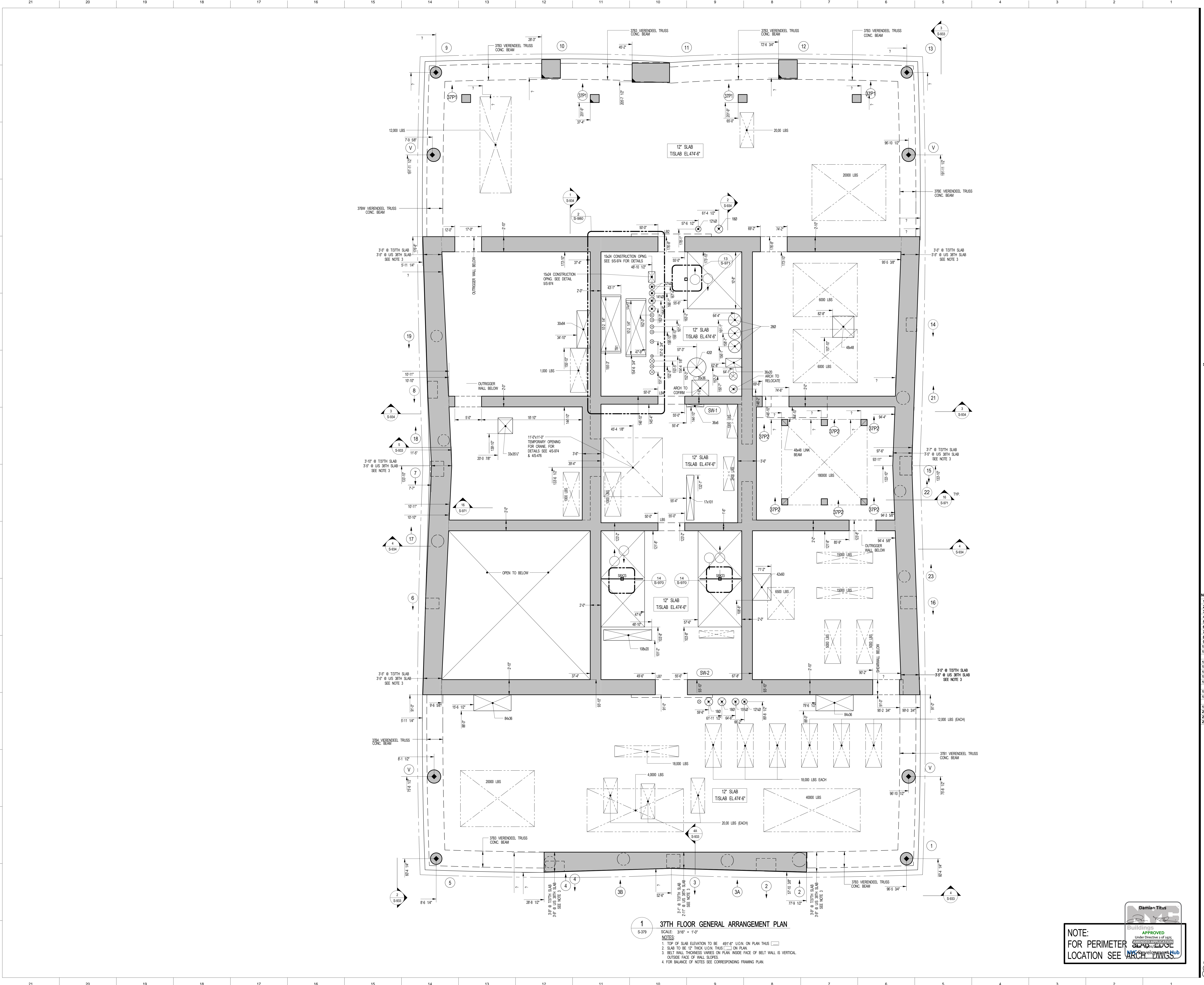
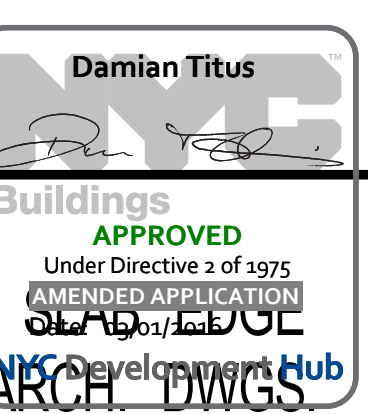
TITLE

37TH FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.

S-379.00

NOTE:
FOR PERIMETER
LOCATION SEE ARCH DWGS



37TH FLOOR GENERAL ARRANGEMENT PLAN

- SCALE: 3/16" = 1'-0"
- TOP OF SLAB ELEVATION TO BE 481'-6" UNLESS NOTED OTHERWISE ON PLAN.
 - SLAB TO BE 12" THICK UNLESS NOTED OTHERWISE ON PLAN.
 - BELT WALL THICKNESS VARIES ON PLAN INSIDE FACE OF BELT WALL IS VERTICAL OUTSIDE FACE OF WALL SLOPES.
 - FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

Damian Titus
APPROVED
Under Executive Order 2 of 2015
ARCHITECT

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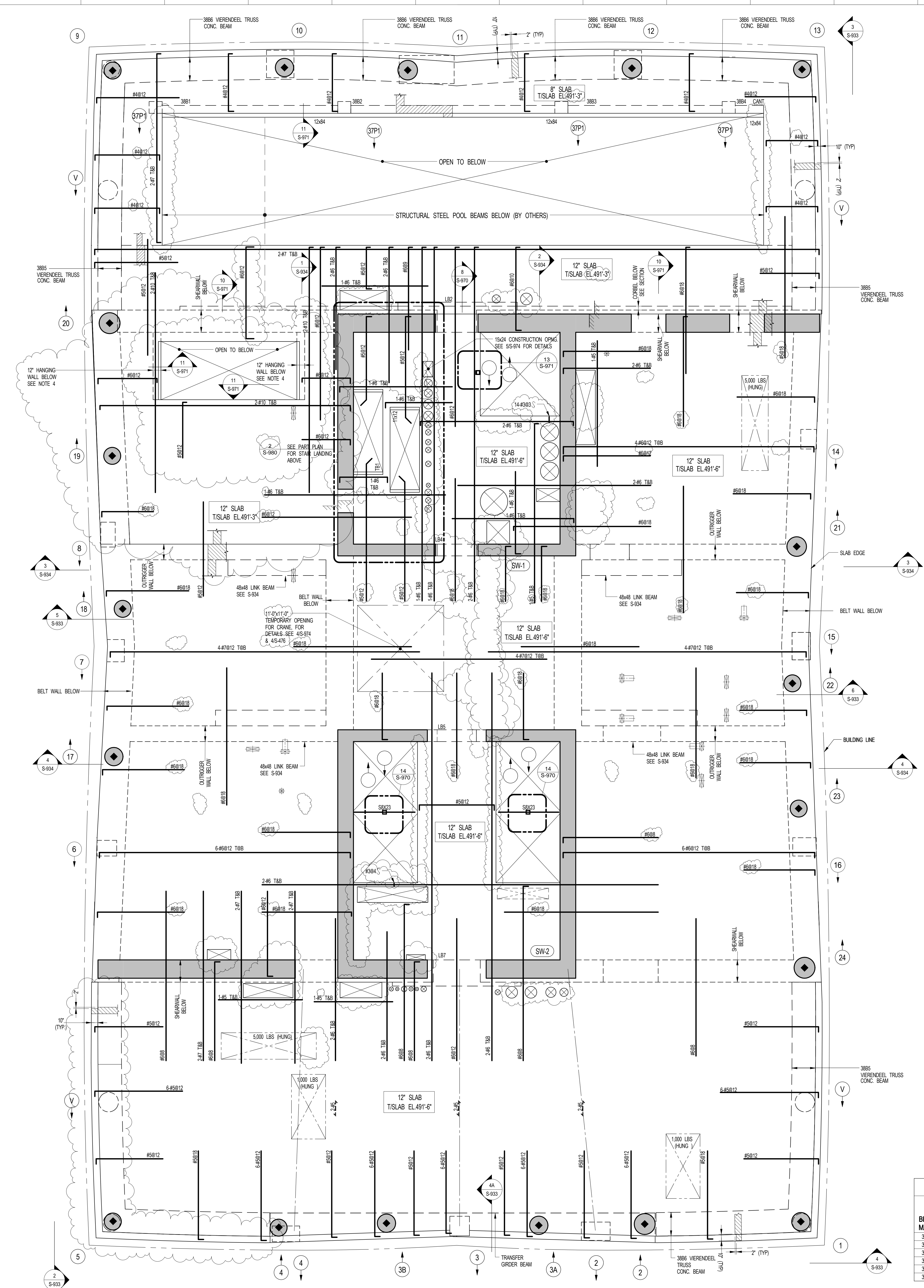
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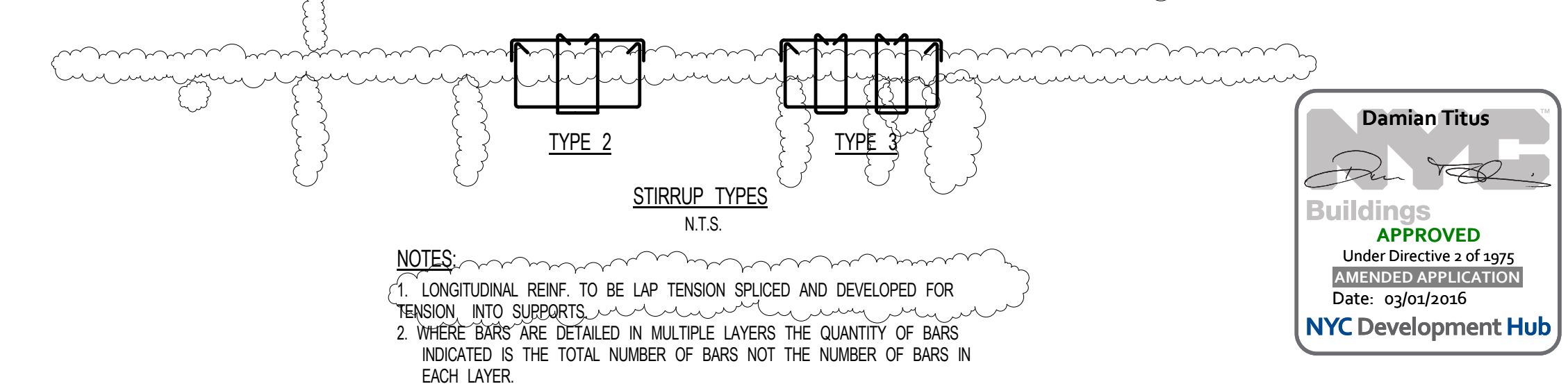


1 38TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. SLAB ELEVATION TO BE 491'-0" U.O.N. ON PLAN THIS _____
 2. SLAB THICKNESS TO BE 12" U.O.N. THIS _____ ON PLAN
 3. MESH REINFORCEMENT TO BE: #8@12 BOTTOM CONT. E.W. FOR 8" SLAB U.O.N. ON PLAN #8@12 TOP & BOTTOM CONT. E.W. FOR 12" SLAB U.O.N. ON PLAN
 4. WALL INDICATED TO BE REINF. AS FOLLOWS:
#8@12 E.W. E.F. 2-47 T&B WITH MIN. TENSION DEVELOPMENT INTO BELT WALL/OUTRIGER
 5. COLUMN REINF. SHOWN ON THIS DRAWING SHALL BE TENSION SPLICED AND TENSION DEVELOPED. REINF. SHALL BE MECHANICALLY SPLICED AS REQUIRED.
 6. FOR BALANCE OF NOTES SEE DRAWING S-410.

- KEY:**
- ⊗ INDICATES AREA OF SLEEVES. REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.
 - ⊕ INDICATES 3#8 VERDECEL TRUSS MEMBER REINF. WITH #4@12 VERT. FOR TIE SIZE & SPACING SEE TYP. COIL DETAIL. SEE NOTE 5.

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT		STIRRUPS		REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	ADD'L BARS AT SUPPORT	SIZE & SPACING	
38B1	12x84	3-#9	2-#9		1 #5 @ 6"	4-#10 SKIN REINF. SEE 11S-971 FOR DETAILS
38B2	12x84	3-#9	2-#9		1 #5 @ 6"	4-#10 SKIN REINF. SEE 11S-971 FOR DETAILS
38B3	12x84	3-#9	2-#9		1 #5 @ 6"	4-#10 SKIN REINF. SEE 11S-971 FOR DETAILS
38B4	12x84	3-#9	2-#9		1 #5 @ 6"	4-#10 SKIN REINF. SEE 11S-971 FOR DETAILS
38B5	30x48	28-#11 (4 LAYERS)	28-#11 (4 LAYERS)		3 #5 @ 8"	5-#7 E.F. SKIN REINF. SEE NOTE 1
38B6	30x48	15-#11 (3 LAYERS)	15-#11 (3 LAYERS)		2 #5 @ 8"	5-#7 E.F. SKIN REINF. SEE NOTE 1



NOTES:

1. LONGITUDINAL REINF. TO BE LAP TENSION SPLICED AND DEVELOPED FOR TENSION INTO SUPPORTS.
2. WHERE BARS ARE DETAILED IN MULTIPLE LAYERS THE QUANTITY OF BARS INDICATED IS THE TOTAL NUMBER OF BARS NOT THE NUMBER OF BARS IN EACH LAYER.

SHEET NOTES:

KEY PLAN

NO.	ISSUE SET	REV DATE
1	FINAL SD ISSUE	1 11-25-13
2	REVISED SD	2 08-22-14
3	SUPERSTRUCTURE EARLY BID	3 11-17-14
4	SET	4 12-22-14
5	DESIGN DEVELOPMENT SET	5 12-23-14
6	NYCT SUBMISSION	6 01-29-15
7	UPDATED DOB SET	7 04-27-15
8	TWOCD	8 07-02-15
9	85% CD	9 11-24-15
10	90% CD	10 01-26-16
11	PKA #2	

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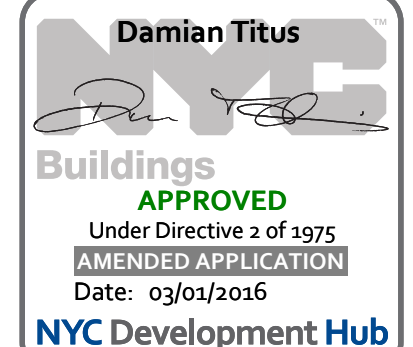
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DRAWING SCALE:
As indicated

PROJECT NUMBER:
2012088

TITLE:
38TH FLOOR FRAMING PLAN

DRAWING NO.:
S-380.01



SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	70%CD	1 04-27-15
2	85%CD	2 07-02-15
3	90%CD	3 11-24-15
4	PAA #2	4 01-26-16
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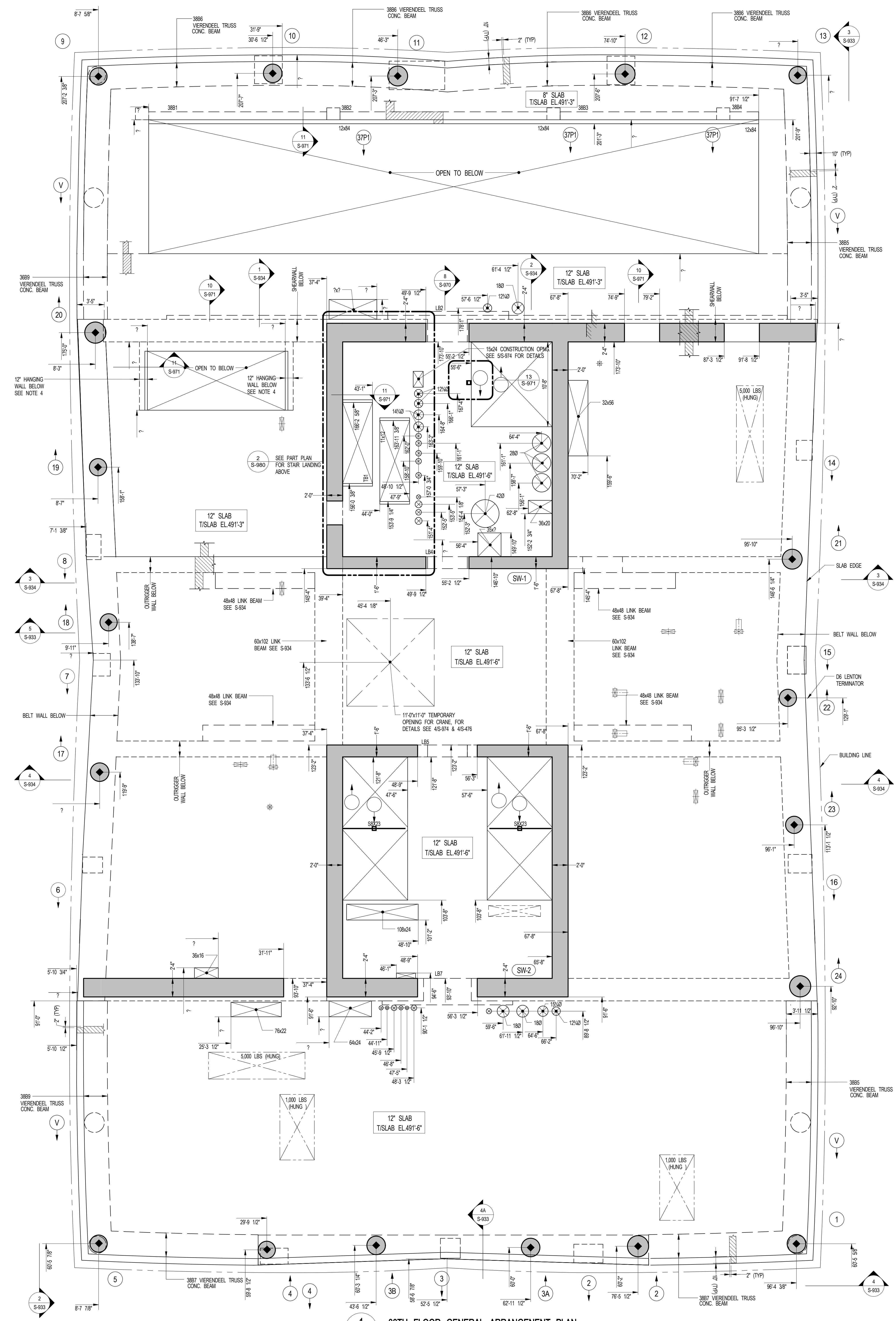
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DRAWING SCALE
As Indicated

PROJECT NUMBER
2012058

TITLE
38TH FLOOR GENERAL ARRANGEMENT
PLAN

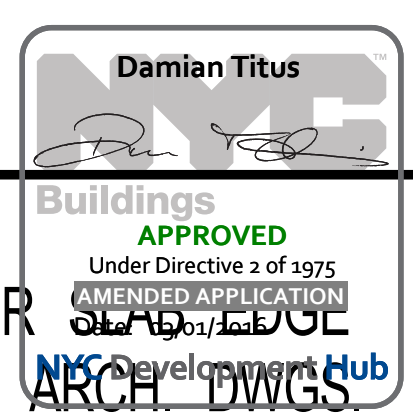
DRAWING NO.
S-389.00



1 38TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:
- TOP OF SLAB ELEVATION TO BE .491' (DOWN ON PLAN THIS)
 - SLAB TO BE 12" THICK UNLESS OTHERWISE NOTED ON PLAN
 - FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

NOTE:
FOR PERIMETER
LOCATION SEE ARCH DWGS



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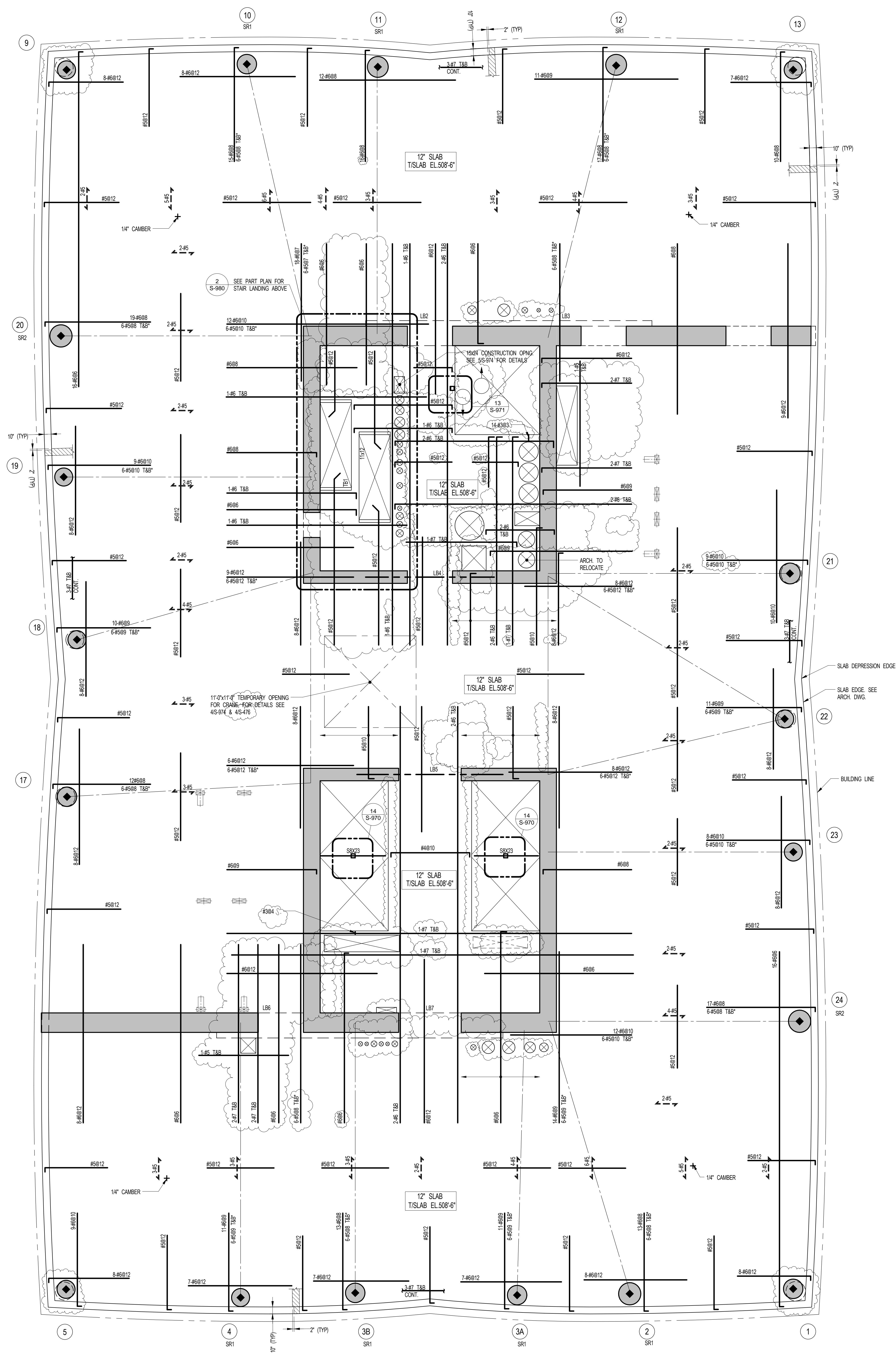
EXTERIOR WALL CONSULTANT:
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1 39TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. SLAB ELEVATION TO BE 508'-6" U.O.N. ON PLAN THIS []
 2. SLAB THICKNESS TO BE 12" U.O.N. THIS [] ON PLAN.
 3. BOTTOM MESH REINFORCEMENT TO BE #8@12" CONT. EW. FOR 12" SLAB U.O.N. ON PLAN.
 4. FOR BALANCE OF NOTES SEE DRAWING S-300.

- KEY:**
- INDICATES AREA OF SLEEVES REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.
 - INDICATES ADD. REINF. FOR LATERAL LOADS. SEE TYPICAL FLAT PLATE DETAIL.
 - SXXX INDICATES COLUMN WHERE STD. RAL. SHEAR REINF. IS REQUIRED. SEE S-900 SERIES DRAWINGS FOR DETAIL.

SHEET NOTES:

KEY PLAN

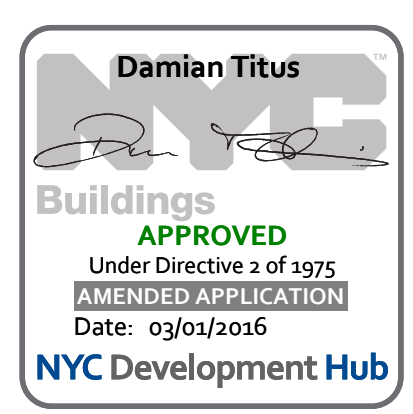
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3	REVISED SD ISSUE	3 08-21-13
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5	REVISED SD	5 08-22-14
6	SUPERSTRUCTURE EARLY BID	6 11-17-14
7	SET	7 01-22-14
8	DESIGN DEVELOPMENT SET	8 12-22-14
9	NYCT SUBMISSION	9 12-23-14
10	UPDATED DOB SET	10 01-20-15
11	70% CD	11 04-27-15
12	85% CD	11 07-02-15
13	90% CD	12 11-24-15
14	PKA #2	13 01-26-16
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DATE OF PRINT
12/26/2016 5:40:51 PM

DRAWING SCALE
As indicated

PROJECT NUMBER



TITLE
39TH FLOOR FRAMING PLAN

DRAWING NO.

S-390.01

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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	70% CD	1. 04-27-15
2	85% CD	2. 07-02-15
3	95% CD	3. 11-24-15
4	PAA #2	4. 01-26-16
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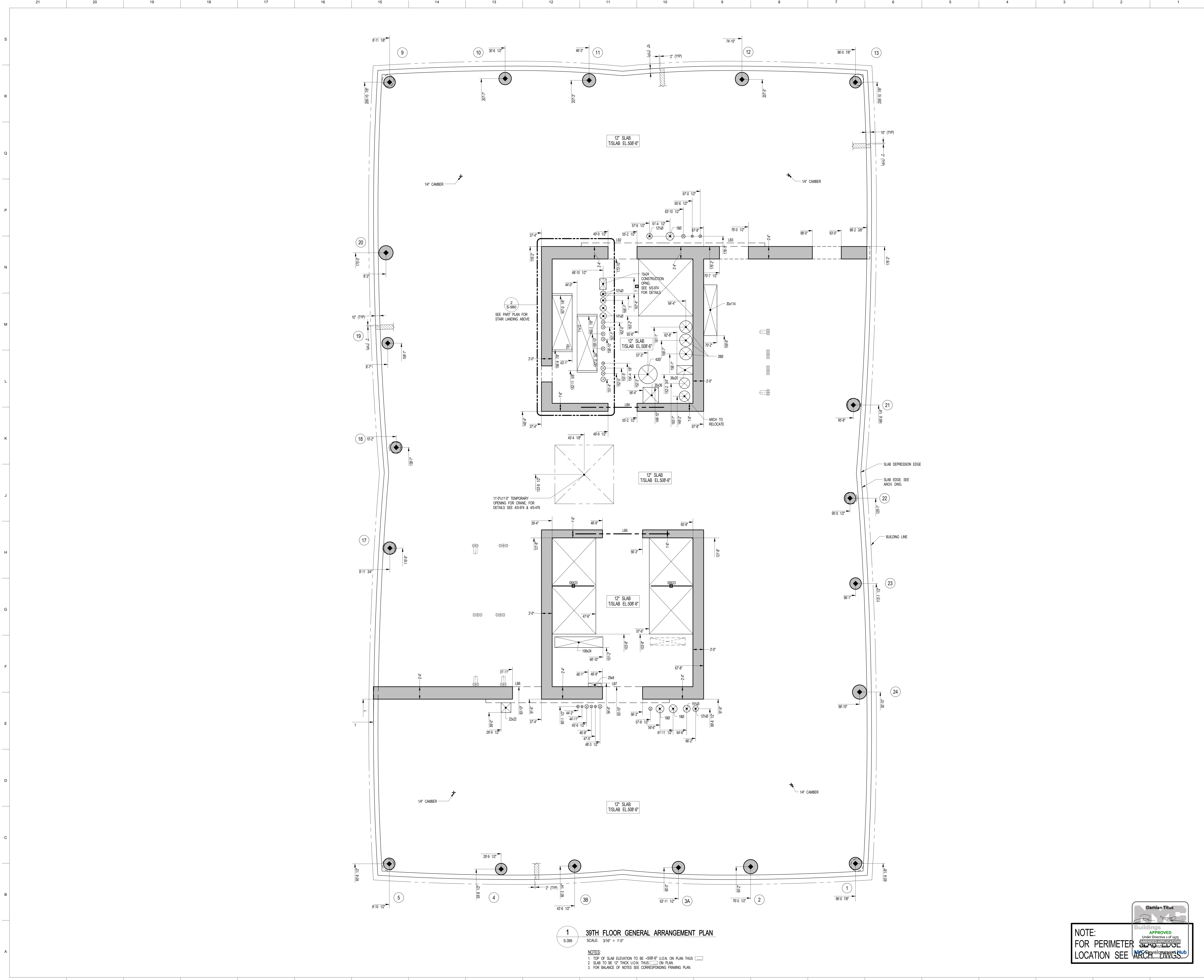
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1/26/2016 5:27:02 PM

DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
39TH FLOOR GENERAL ARRANGEMENT
PLAN

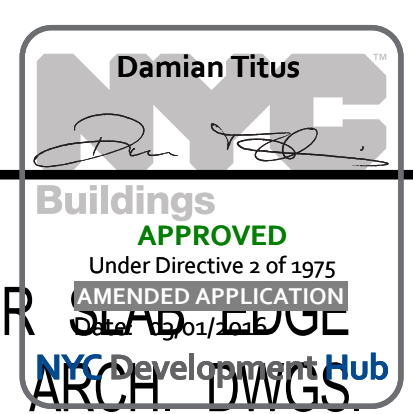
DRAWING NO.
S-399.00



1 39TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
- TOP OF SLAB ELEVATION TO BE +508'-6" UNLESS NOTED OTHERWISE ON PLAN.
 - SLAB TO BE 12" THICK UNLESS NOTED OTHERWISE ON PLAN.
 - FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

NOTE:
FOR PERIMETER
LOCATION SEE ARCH DWGS.



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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	100% SD ISSUE	1 02-15-13
2	REVISED SD ISSUE	2 05-06-13
3	REVISED SD ISSUE	3 08-21-13
4	FINAL SD ISSUE	4 11-26-13
5	REVISED SD	5 08-22-14
6	SUPERSTRUCTURE EARLY BID	6 11-17-14
7	SET	7 12-22-14
8	DESIGN DEVELOPMENT SET	8 12-23-14
9	NYCT SUBMISSION	9 01-20-15
10	UPDATED DOB SET	10 04-27-15
11	TRN/CD	11 07-02-15
12	85% CD	12 09-03-15
13	90% PARTIAL CD ISSUE - FLOORS	13 05-12
14	95% CD	13 11-24-15
15	FAA #2	14 01-28-16
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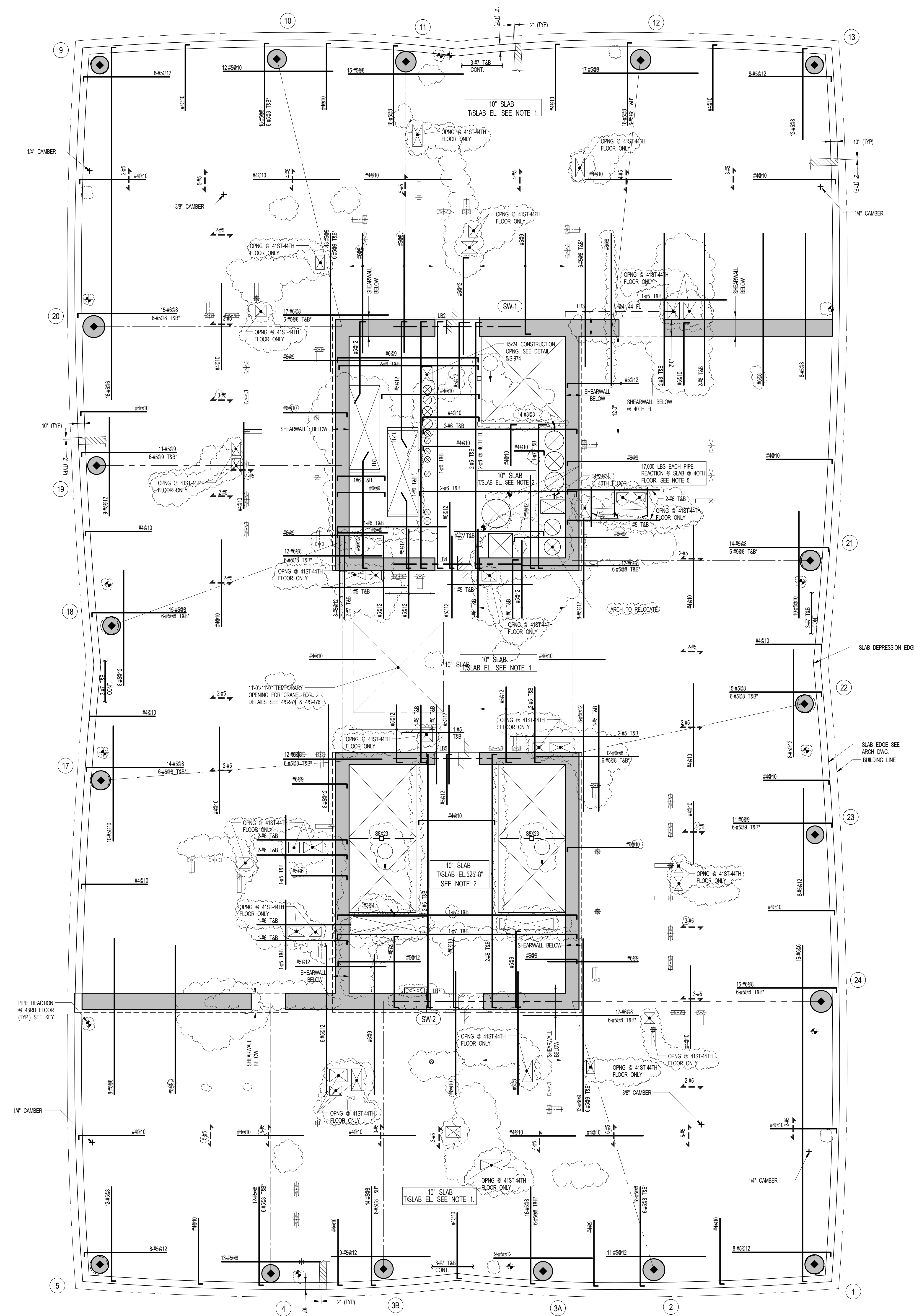
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DRAWING SCALE
As indicated

PROJECT NUMBER
2012088

TITLE
40TH FLOOR FRAMING PLAN

DRAWING NO.
S-400.01

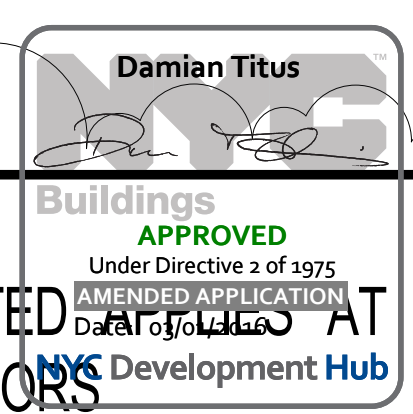


1 40TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. TSLAB ELEVATION TO BE 525'-0" @ 40TH FLOOR U.O.N.
537'-0" @ 41ST FLOOR U.O.N.
549'-4" @ 42ND FLOOR U.O.N.
561'-3" @ 43RD FLOOR U.O.N.
573'-2" @ 44TH FLOOR U.O.N.
 2. SLAB ELEVATION TO BE 2" HIGHER THAN THE TSLAB ELEVATION INDICATED IN NOTE 1. SEE TYPICAL FLAT PLATE DETAIL.
 3. SLAB THICKNESS TO BE 10" U.O.N. THIS IS ON PLAN.
 4. BOTTOM MESH REINFORCEMENT TO BE #8@10" ON PLAN. SEE MEP DRAWING FOR SUPPORT DETAILS. MIN. BEARING AREA ON SLAB TO BE 200".
 5. SEE MEP DRAWING FOR SUPPORT DETAILS. MIN. BEARING AREA ON SLAB TO BE 200".
 6. FOR BALANCE OF NOTES SEE DRAWING 5010.

- KEY:**
- INDICATES AREA OF SLEEVES. REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.
 - INDICATES ADDL. REIN. FOR LATERAL LOADS. SEE TYPICAL FLAT PLATE DETAIL.
 - INDICATES 2000# PPE REACTION ON SLAB BEARING FLOOR. MIN. BEARING AREA ON SLAB 3'x7'. SEE MEP DRAWING FOR DETAILS.

NOTE:
REIN. INDICATED AT 40TH-44TH FLOORS



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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	100% SD ISSUE	1 02-15-13
2	REVISED SD ISSUE	2 05-06-13
3	REVISED SD ISSUE	3 08-21-13
4	FINAL SD ISSUE	4 11-26-13
5	REVISED SD	5 08-22-14
6	SUPERSTRUCTURE EARLY BID	6 11-17-14
7	SET	
8	DESIGN DEVELOPMENT SET	7 12-22-14
9	NYCT SUBMISSION	8 12-23-14
10	UPDATED DOB SET	9 01-20-15
11	70% CD	10 04-27-15
12	85% CD	11 07-02-15
13	90% CD	12 11-24-15
14	PKA #2	13 01-26-16
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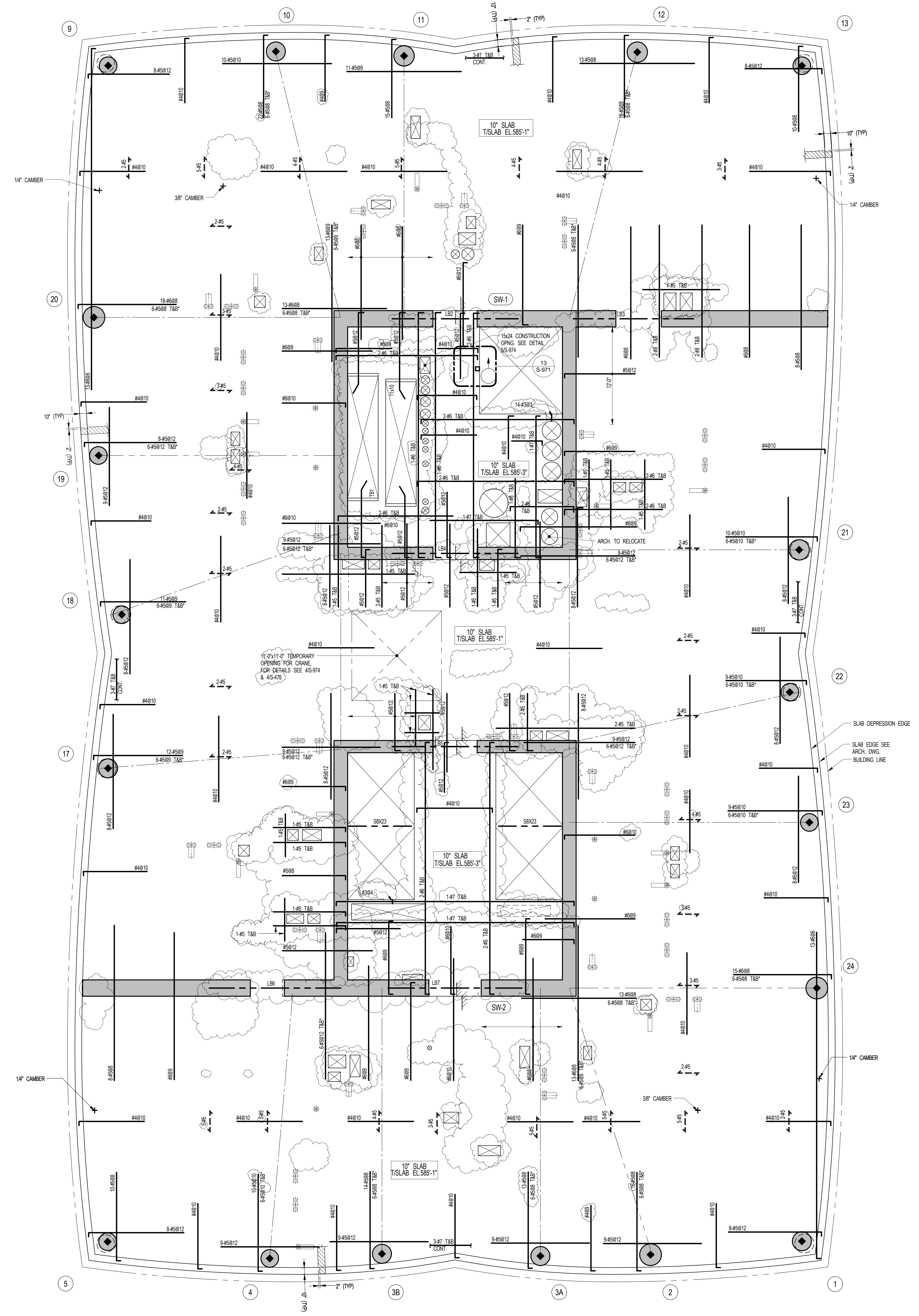
DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
45TH FLOOR FRAMING PLAN

DRAWING NO.

S-450.01

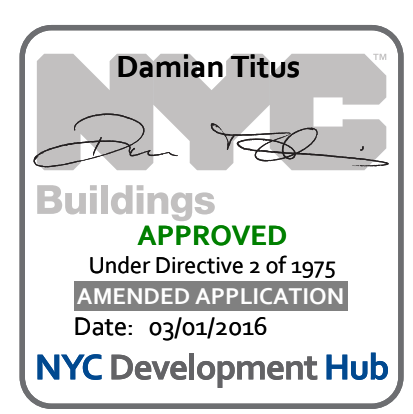


1 45TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. SLAB ELEVATION TO BE 585'-1" U.O.N. ON PLAN THIS []
 2. SLAB THICKNESS TO BE 10" U.O.N. THIS [] ON PLAN
 3. BOTTOM MESH REINFORCEMENT TO BE #4@10 CONT. E.W. FOR 10" SLAB U.O.N. ON PLAN
 4. FOR BALANCE OF NOTES SEE DRAWING 540.

KEY

- [] INDICATES AREA OF SLEEVES REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.
- [] INDICATES ADDL. REINF. FOR LATERAL LOADS. SEE TYPICAL FLAT PLATE DETAIL.



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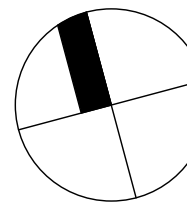
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SHEET NOTES:

KEY PLAN



NO	ISSUE SET	REV DATE
1	70% CD	1 04-27-15
2	85% CD	2 07-02-15
3	95% CD	3 11-24-15
4	PAA #2	4 01-28-16
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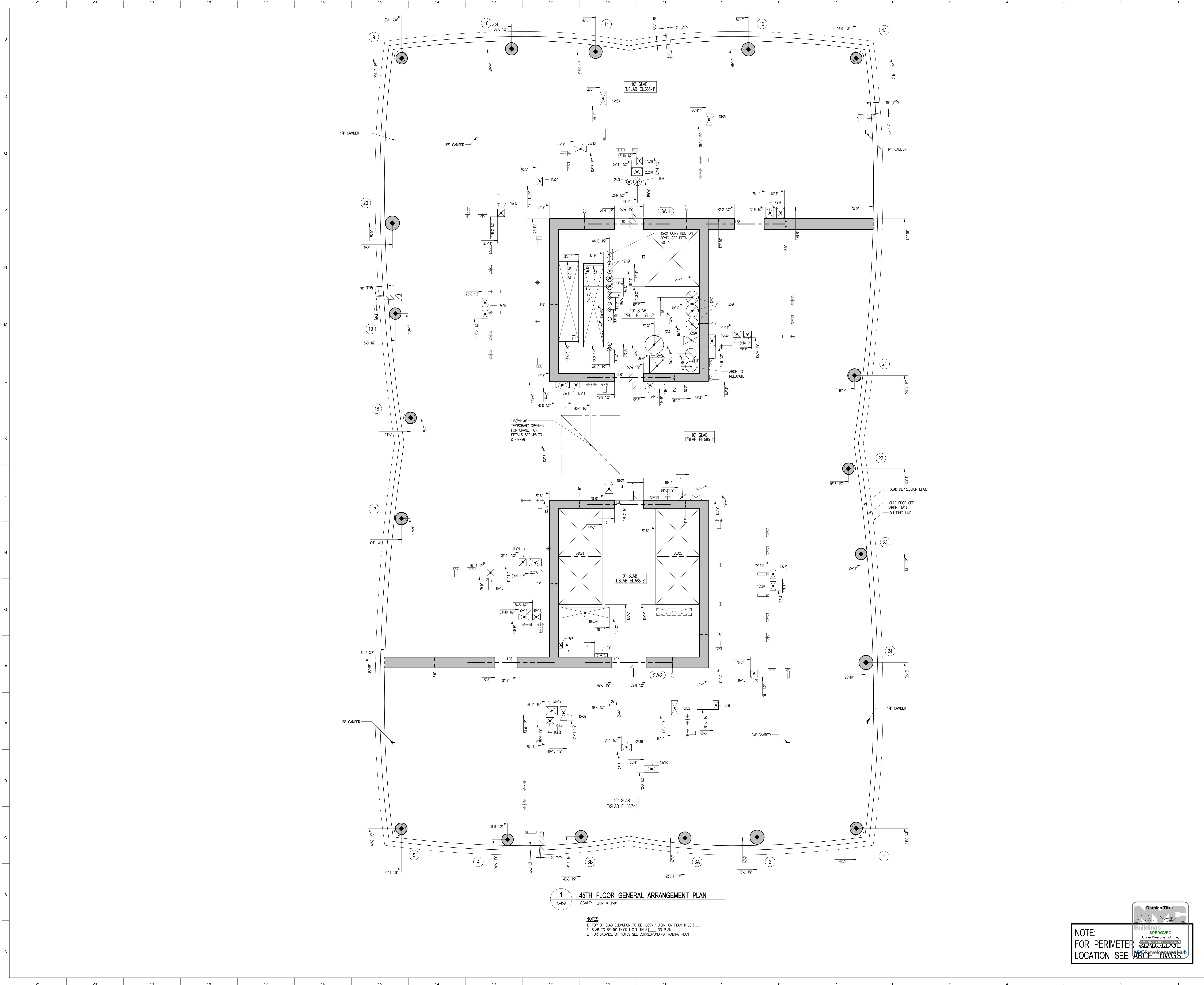
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PROJECT NUMBER

TITLE
 45TH FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.

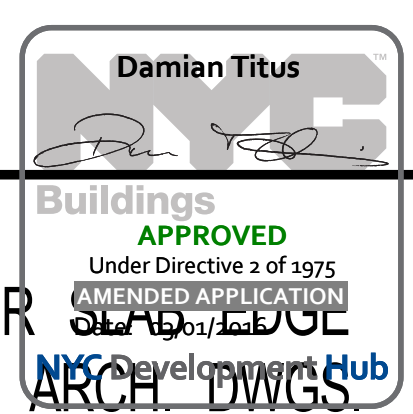
S-459.00



1 45TH FLOOR GENERAL ARRANGEMENT PLAN
 S-459 SCALE: 3/16" = 1'-0"

NOTES:
 1. TOP OF SLAB ELEVATION TO BE +885'-1" UON; ON PLAN THIS ON PLAN.
 2. SLAB TO BE 10" THICK UNLESS NOTED OTHERWISE ON PLAN.
 3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

NOTE:
 FOR PERIMETER LOCATION SEE ARCH DWGS.



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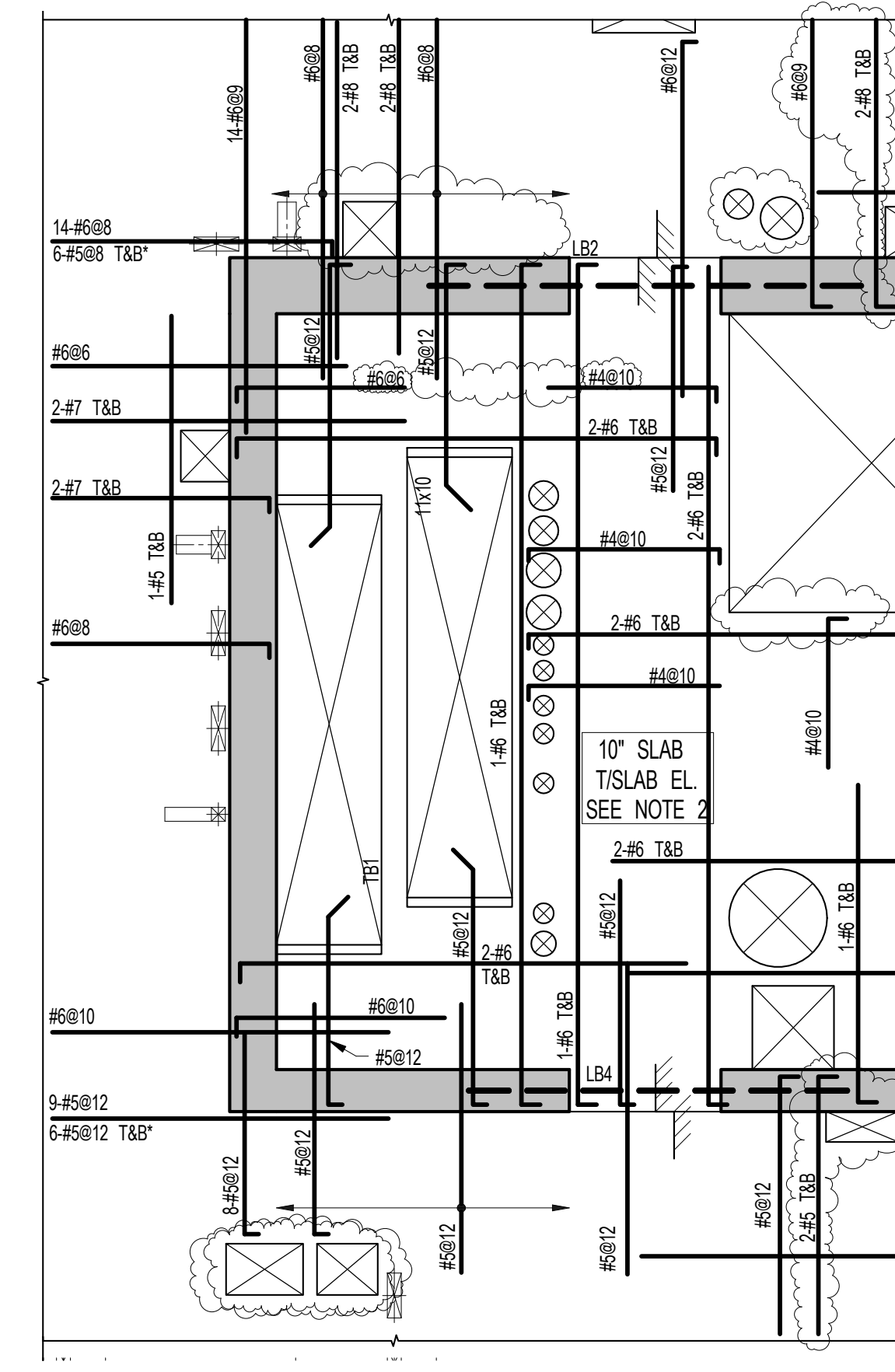
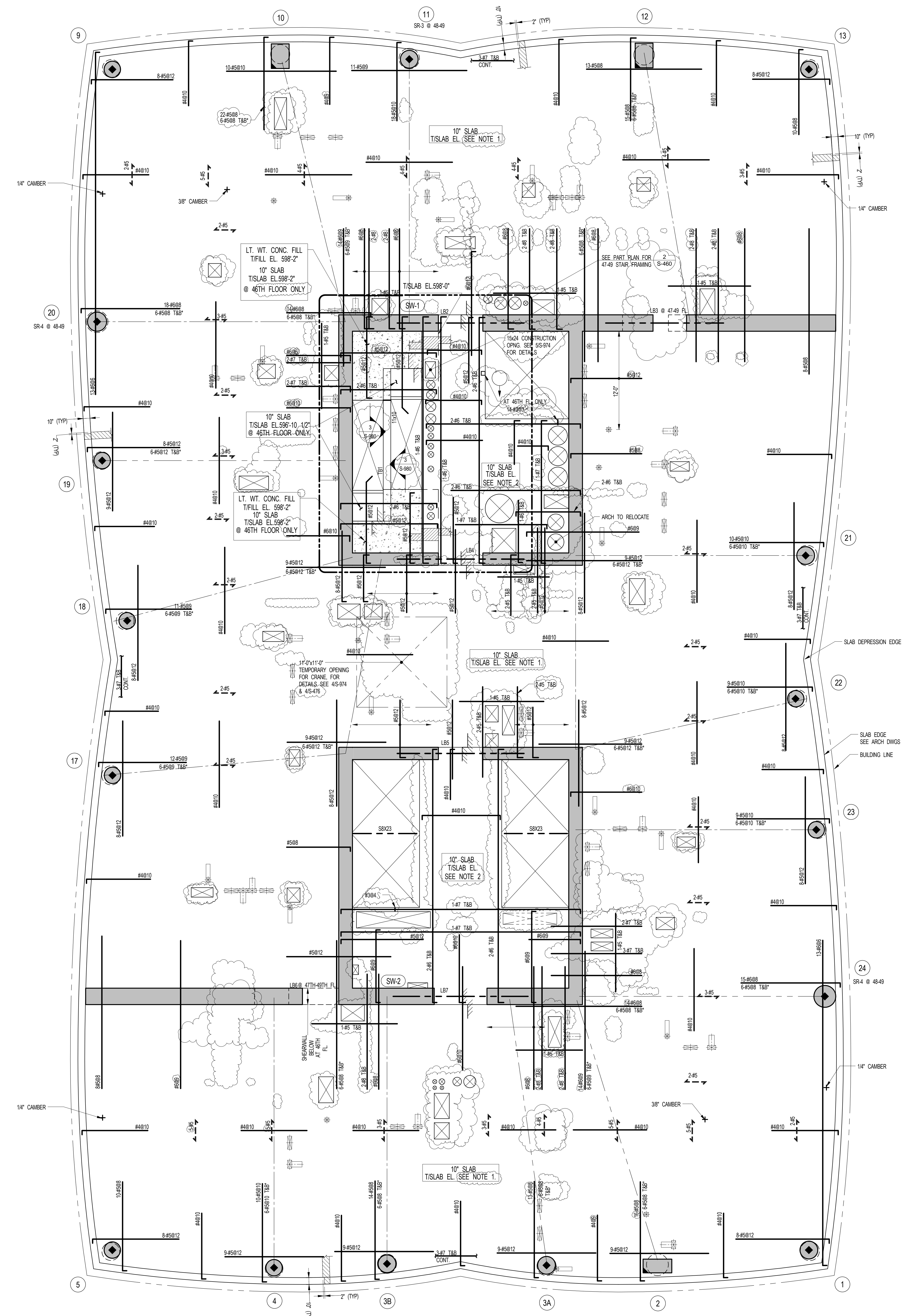
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2 47TH - 49TH PART PLAN @ STAIRS
S-400
SCALE: 3/16" = 1'-0"
NOTE:
1. SEE 15-400 FOR BALANCE OF INFORMATION.

1 46TH FLOOR FRAMING PLAN
S-400
SCALE: 3/16" = 1'-0"

- NOTES:**
- TISLAB ELEVATION TO BE 598'-0" @ 46TH FLOOR U.O.N.
633'-11" @ 47TH FLOOR U.O.N.
621'-10" @ 48TH FLOOR U.O.N.
633'-0" @ 49TH FLOOR U.O.N.
 - TOP OF SLAB ELEVATION TO BE 2" HIGHER THAN THE TISLAB ELEVATION INDICATED IN NOTE 1
 - SLAB THICKNESS TO BE 10" U.O.N. THICKNESS ON PLAN.
 - BOTTOM MESH REINFORCEMENT TO BE #4@10 CONT. E.W. FOR 10" SLAB U.O.N. ON PLAN.
 - FOR BALANCE OF NOTES SEE DRAWING S-010.

- KEY:**
- INDICATES AREA OF SLEEVES REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.
 - INDICATES ADD. REIN. FOR LATERAL LOADS. SEE TYPICAL FLAT PLATE DETAIL.
 - INDICATES COLUMN WHERE STUD RAIL SHEAR REIN. IS REQUIRED. SEE S-960 SERIES DRAWINGS FOR DETAIL.

NOTE:
REIN. INDICATED AT 46TH-49TH FLOORS

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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	FINAL SD ISSUE	1 11-25-13
2	REVISED SD	2 08-22-14
3	SUPERSTRUCTURE EARLY BID	3 11-17-14
4	SET	4 12-22-14
5	DESIGN DEVELOPMENT SET	5 12-23-14
6	NYCT SUBMISSION	6 01-29-15
7	UPDATED DOB SET	7 04-27-15
8	TRN/CO	8 07-02-15
9	85% CD	9 09-03-15
10	80% PARTIAL CD ISSUE - FLOORS	10 11-24-15
11	SC-12	11 01-26-16
12	85% CD	10 11-24-15
13	FAA #2	11 01-26-16
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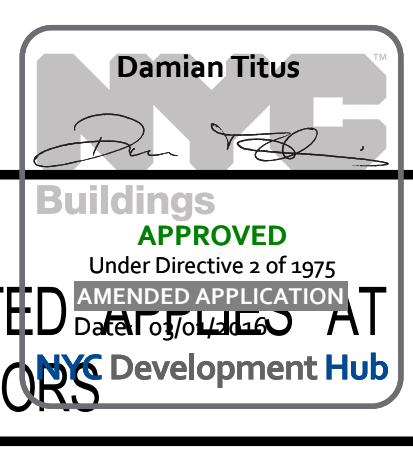
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PROJECT NUMBER
201268

TITLE
46TH-49TH FLOOR FRAMING PLAN

DRAWING NO.
S-460.01



OWNER:
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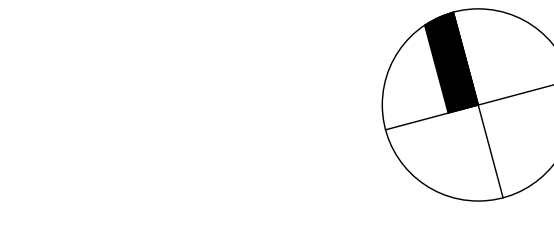
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SHEET NOTES:

100% SD ISSUE
REVISED SD ISSUE
REVISED SD ISSUE
REVISED SD ISSUE
SUPERSTRUCTURE EARLY BID
SET
DESIGN DEVELOPMENT SET
NYCT SUBMISSION
UPDATED DOB SET
70% CD
80% CD
90% PARTIAL CD ISSUE - FLOORS
SC-12
90% CD
PAA #2

KEY PLAN



NO ISSUE SET

NO	ISSUE SET	REV DATE
1	100% SD ISSUE	1 02-15-13
2	REVISED SD ISSUE	2 05-06-13
3	REVISED SD ISSUE	3 08-21-13
4	REVISED SD ISSUE	4 08-22-14
5	SUPERSTRUCTURE EARLY BID	5 11-17-14
6	SET	6 12-22-14
7	DESIGN DEVELOPMENT SET	7 12-23-14
8	NYCT SUBMISSION	8 01-20-15
9	UPDATED DOB SET	9 04-27-15
10	70% CD	10 07-02-15
11	80% CD	11 09-03-15
12	90% PARTIAL CD ISSUE - FLOORS	12 11-24-15
13	SC-12	13 01-26-16
14	PAA #2	
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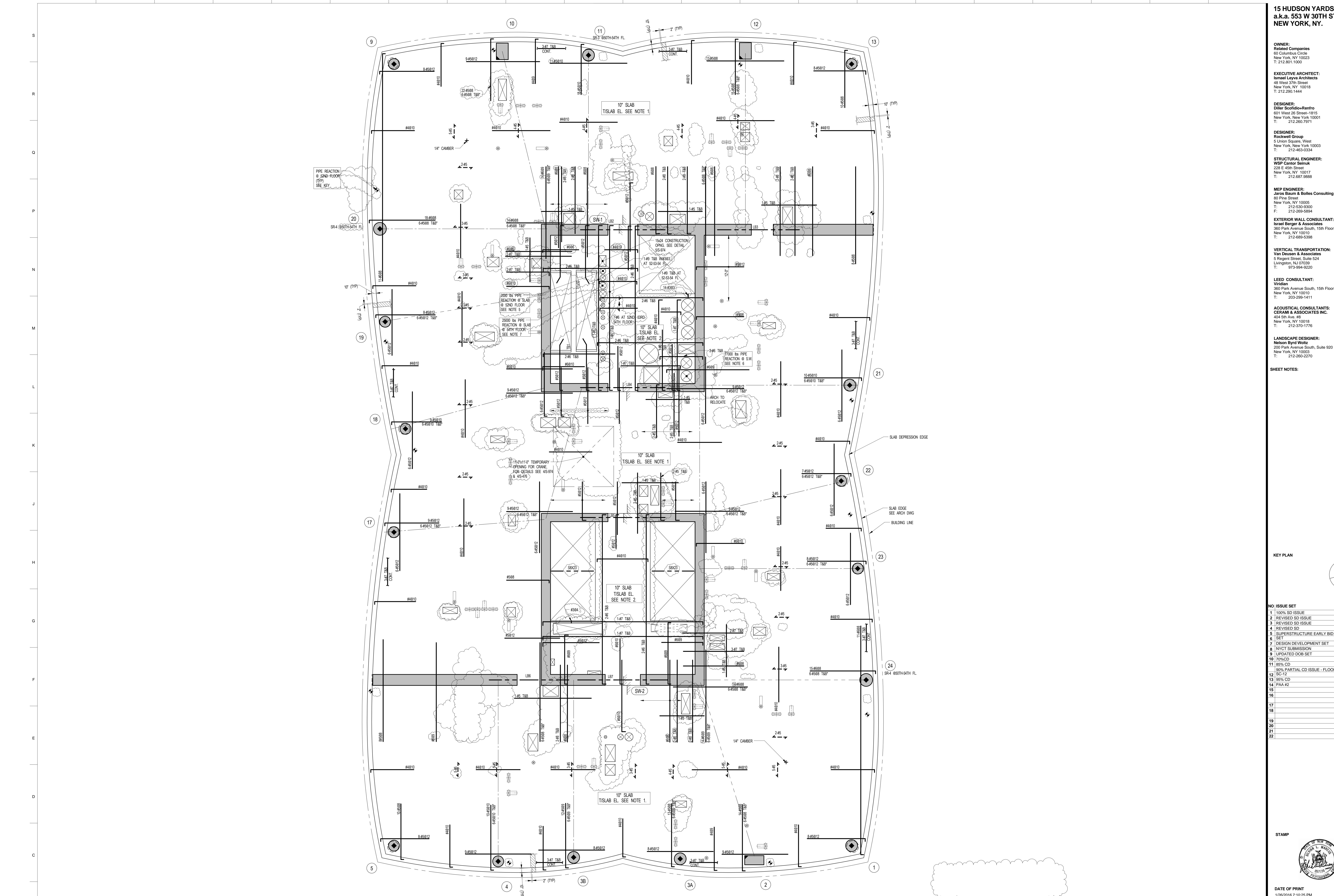
DRAWING SCALE
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PROJECT NUMBER
2012058

TITLE
50TH-54TH FLOOR FRAMING PLAN

DRAWING NO.
S-500.01

NOTE:
REIN. INDICATED AT 50TH-54TH FLOORS



1 50TH FLOOR FRAMING PLAN

SCALE: 3/16" = 1'-0"

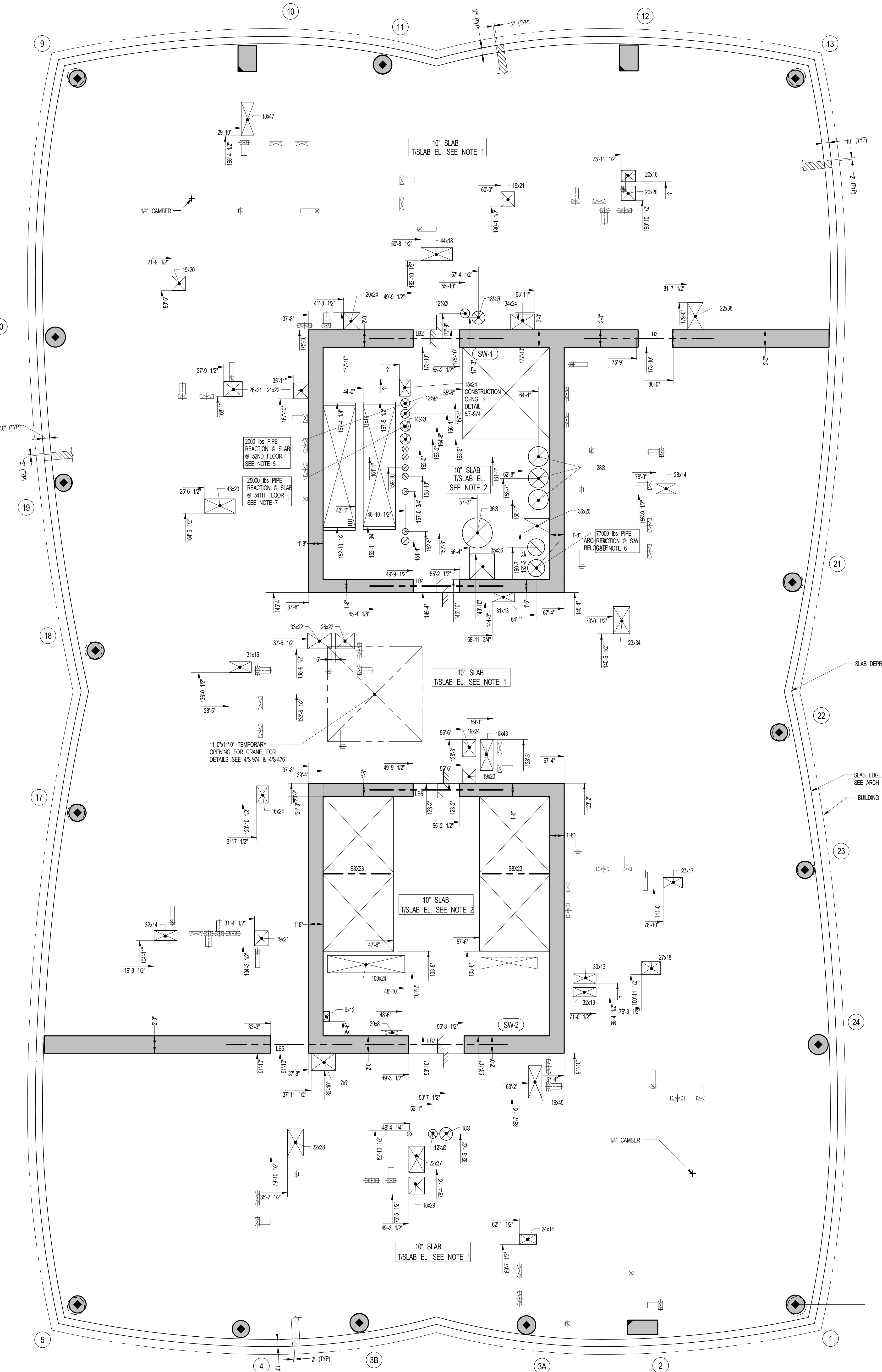
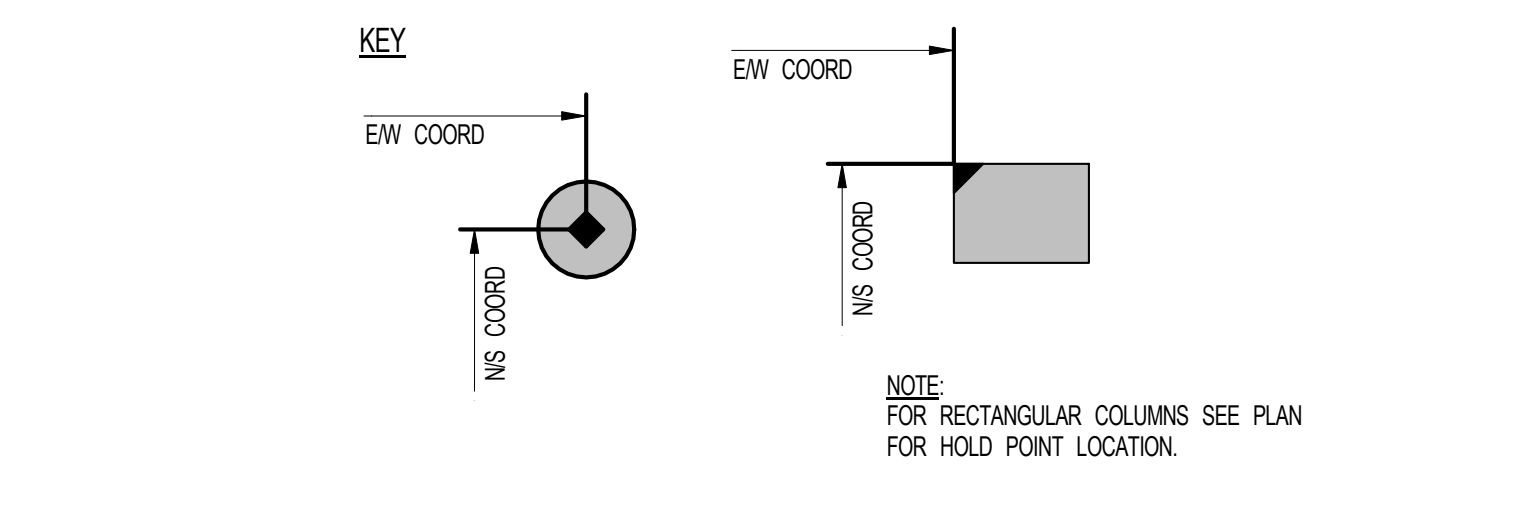
- NOTES:**
1. TISLAB ELEVATION TO BE 646'-8" @ 50TH FLOOR U.O.N.
657'-7" @ 51ST FLOOR U.O.N.
669'-6" @ 52ND FLOOR U.O.N.
681'-5" @ 53RD FLOOR U.O.N.
693'-4" @ 54TH FLOOR U.O.N.
 2. TISLAB ELEVATION TO BE 2" HIGHER THAN THE TISLAB INDICATED IN NOTE 1.
 3. SLAB THICKNESS TO BE 10" UNLESS OTHERWISE NOTED.
 4. BOTTOM MESH REINFORCEMENT TO BE #4@8 CONT. E.V. FOR 10" SLAB U.O.N. ON PLAN.
AS SEE MEP DRAWINGS FOR SUPPORT DETAILS MIN. BEARING AREA ON SLAB TO BE 2X2.
 5. SEE MEP DRAWINGS FOR SUPPORT DETAILS LOAD TO BE SUPPORTED OFF ON USING BRACKET DESIGN BY OTHERS.
 7. SEE MEP DRAWINGS FOR SUPPORT DETAILS MIN. BEARING AREA ON SLAB TO BE 2X2.
8. FOR BALANCE OF NOTES SEE DRAWING S-510.

KEY:

- INDICATES AREA OF SLEEVES. REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.
- INDICATES ADDL. REIN. FOR LATERAL LOADS. SEE TYPICAL FLAT PLATE DETAIL.
- INDICATES 2000psi PIPE REACTION ON SLAB @ 52ND FLOOR MIN. BEARING AREA ON SLAB 2'X2'. SEE MEP DRAWINGS FOR SUPPORT DETAILS.
- SRX# INDICATES COLUMN WHERE STD RAIL SHEAR REIN. IS REQUIRED. SEE S-800 SERIES DRAWINGS FOR DETAIL.

COLUMN ID	BASE LEVEL	TOP LEVEL	EW COORD.	NIS COORD.
1	50TH FLOOR	51ST FLOOR	84'-2 1/4"	62'-7 3/4"
1	51ST FLOOR	52ND FLOOR	84'-0 1/8"	62'-9 7/8"
1	52ND FLOOR	53RD FLOOR	83'-10"	63'-0"
1	53RD FLOOR	54TH FLOOR	83'-7 7/8"	63'-2 1/8"
2	50TH FLOOR	54TH FLOOR	74'-8 1/2"	60'-10"
3A	50TH FLOOR	51ST FLOOR	62'-11 1/2"	60'-3"
3A	51ST FLOOR	52ND FLOOR	62'-11 1/2"	60'-3 1/2"
3A	52ND FLOOR	53RD FLOOR	62'-11 1/2"	60'-4"
3A	53RD FLOOR	54TH FLOOR	62'-11 1/2"	60'-4 1/2"
3B	50TH FLOOR	51ST FLOOR	43'-6 1/2"	60'-6 1/4"
3B	51ST FLOOR	52ND FLOOR	43'-6 1/2"	60'-7"
3B	52ND FLOOR	53RD FLOOR	43'-6 1/2"	60'-7 3/4"
3B	53RD FLOOR	54TH FLOOR	43'-6 1/2"	60'-8 1/2"
4	50TH FLOOR	54TH FLOOR	29'-9 1/2"	58'-9 1/2"
5	50TH FLOOR	51ST FLOOR	10'-9 3/4"	62'-7 3/4"
5	51ST FLOOR	52ND FLOOR	10'-11 7/8"	62'-9 7/8"
5	52ND FLOOR	53RD FLOOR	11'-2"	63'-0"
5	53RD FLOOR	54TH FLOOR	11'-4 1/8"	63'-2 1/8"
9	50TH FLOOR	51ST FLOOR	10'-9 3/4"	205'-0 1/4"
9	51ST FLOOR	52ND FLOOR	10'-11 7/8"	204'-10 1/8"
9	52ND FLOOR	53RD FLOOR	11'-2"	204'-8"
9	53RD FLOOR	54TH FLOOR	11'-4 1/8"	204'-5 7/8"
10	50TH FLOOR	54TH FLOOR	29'-9 1/2"	206'-10"
11	50TH FLOOR	51ST FLOOR	46'-3"	206'-7 1/2"
11	51ST FLOOR	52ND FLOOR	46'-3"	206'-6 1/2"
11	52ND FLOOR	53RD FLOOR	46'-3"	206'-4 1/2"
11	53RD FLOOR	54TH FLOOR	46'-3"	206'-1 1/2"
12	50TH FLOOR	54TH FLOOR	73'-9"	205'-11"
13	50TH FLOOR	51ST FLOOR	84'-2 1/4"	205'-0 1/4"
13	51ST FLOOR	52ND FLOOR	84'-0 1/8"	204'-10 1/8"
13	52ND FLOOR	53RD FLOOR	83'-10"	204'-8"
13	53RD FLOOR	54TH FLOOR	83'-7 7/8"	204'-5 7/8"
17	50TH FLOOR	51ST FLOOR	10'-9 3/4"	119'-9"
17	51ST FLOOR	52ND FLOOR	12'-11"	138'-7"
17	52ND FLOOR	53RD FLOOR	13'-2"	138'-7"
17	53RD FLOOR	54TH FLOOR	13'-5"	138'-7"
18	50TH FLOOR	54TH FLOOR	13'-8"	138'-7"
18	53RD FLOOR	51ST FLOOR	9'-2 1/2"	158'-11"
19	51ST FLOOR	52ND FLOOR	9'-3 1/2"	158'-11"
19	52ND FLOOR	53RD FLOOR	9'-4 1/2"	158'-11"
19	53RD FLOOR	54TH FLOOR	9'-6 1/2"	158'-11"
20	50TH FLOOR	54TH FLOOR	8'-3"	175'-9"
21	50TH FLOOR	51ST FLOOR	93'-10"	146'-6 1/4"
21	51ST FLOOR	52ND FLOOR	93'-8"	146'-6 1/4"
21	52ND FLOOR	53RD FLOOR	93'-6"	146'-6 1/4"
21	53RD FLOOR	54TH FLOOR	93'-4"	146'-6 1/4"
22	50TH FLOOR	51ST FLOOR	82'-3 1/2"	129'-1"
22	51ST FLOOR	52ND FLOOR	82'-0 1/2"	129'-1"
22	52ND FLOOR	53RD FLOOR	81'-9 1/2"	129'-1"
22	53RD FLOOR	54TH FLOOR	81'-6 1/2"	129'-1"
23	50TH FLOOR	51ST FLOOR	95'-3 1/2"	113'-1 1/2"
23	51ST FLOOR	52ND FLOOR	95'-2"	113'-1 1/2"
23	52ND FLOOR	53RD FLOOR	95'-0 1/2"	113'-1 1/2"
23	53RD FLOOR	54TH FLOOR	94'-11"	113'-1 1/2"
24	50TH FLOOR	54TH FLOOR	96'-10"	92'-10"

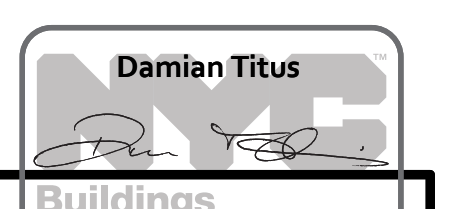
NOTES:
1. ALL ROUND COLUMN COORDINATES ARE TO CENTERLINE OF COLUMN UNLESS OTHERWISE NOTED ON PLAN



1 50TH-54TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE: 645'-0" @ 50TH FLOOR U.O.N.
657'-0" @ 51ST FLOOR U.O.N.
669'-0" @ 52ND FLOOR U.O.N.
681'-0" @ 53RD FLOOR U.O.N.
693'-0" @ 54TH FLOOR U.O.N.
2. T/SLAB ELEVATION TO BE 2" HIGHER THAN THE T/SLAB ELEVATION INDICATED IN NOTE 1.
3. SLAB TO BE 10" THICK U.O.N. THIS [] ON PLAN.
4. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

NOTE:
FOR PERIMETER
LOCATION SEE ARCH DWGS



NO	ISSUE SET	REV DATE
1	70% CD	1/04/27-15
2	85% CD	2/07/02-15
3	95% CD	3/11/24-15
4	PAA #2	4/01/28-16
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DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
50TH-54TH FLOOR GENERAL
ARRANGEMENT PLAN

DRAWING NO.
S-509.00

OWNER:
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MEP ENGINEER:
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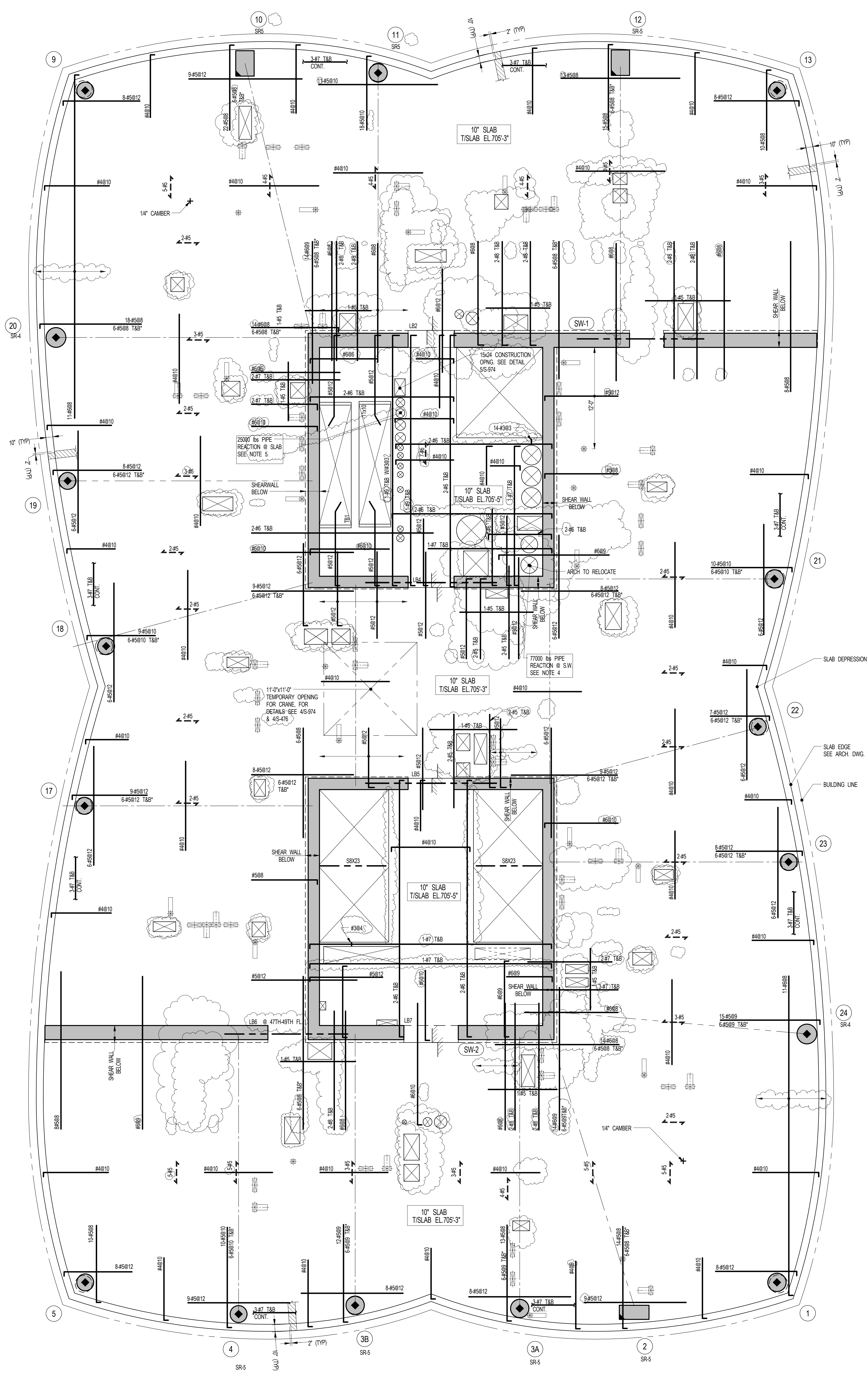
EXTERIOR WALL CONSULTANT:
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VERTICAL TRANSPORTATION:
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1 55TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. SLAB ELEVATION TO BE 705'-3" U.O.N. ON PLAN THIS _____
 2. SLAB THICKNESS TO BE 10" U.O.N. THIS _____ ON PLAN
 3. BOTTOM REINFORCEMENT TO BE #4@9" CONT. 1/3W FOR 10" SLAB U.O.N. ON PLAN
 4. SEE MEP DRAWINGS FOR SUPPORT DETAILS. LOAD TO BE SUPPORTED OFF SW USING BRACKET DESIGN BY OTHERS
 5. SEE MEP DRAWINGS FOR SUPPORT DETAILS MIN. BEARING AREA ON SLAB TO BE 5700" FOR BALANCE OF NOTES. SEE DRAWING S-510

- KEY:**
- INDICATES AREA OF SLEEVES. REBAR TO BE CONTINUES AND PLACED BETWEEN SLEEVES.
 - INDICATES ADDL. REIN. FOR LATERAL LOADS. SEE TYPICAL PLAT. PLATE DETAIL.
 - INDICATES COLUMN WHERE STD. RAIL SHEAR REIN. IS REQUIRED. SEE S-800 SERIES DRAWINGS FOR DETAIL.

SHEET NOTES:

KEY PLAN

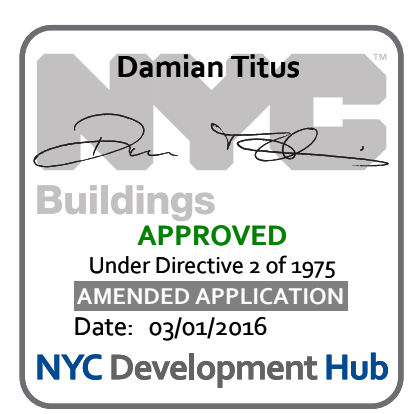
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2	REVISED SD ISSUE	2 05-06-13
3	REVISED SD ISSUE	3 08-21-13
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5	SUPERSTRUCTURE EARLY BID	5 11-17-14
6	SET	6 12-22-14
7	DESIGN DEVELOPMENT SET	7 12-23-14
8	NYCT SUBMISSION	8 01-20-15
9	UPDATED DOB SET	9 04-27-15
10	70% CD	10 07-02-15
11	85% CD	11 11-24-15
12	95% CD	12 01-28-16
13	PAA #2	
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1/26/2016 7:10:29 PM

DRAWING SCALE
As indicated

PROJECT NUMBER
2012058



TITLE
55TH FLOOR FRAMING PLAN

DRAWING NO.
S-550.01

15 HUDSON YARDS
 a.k.a. 553 W 30TH STREET,
 NEW YORK, NY.

OWNER:
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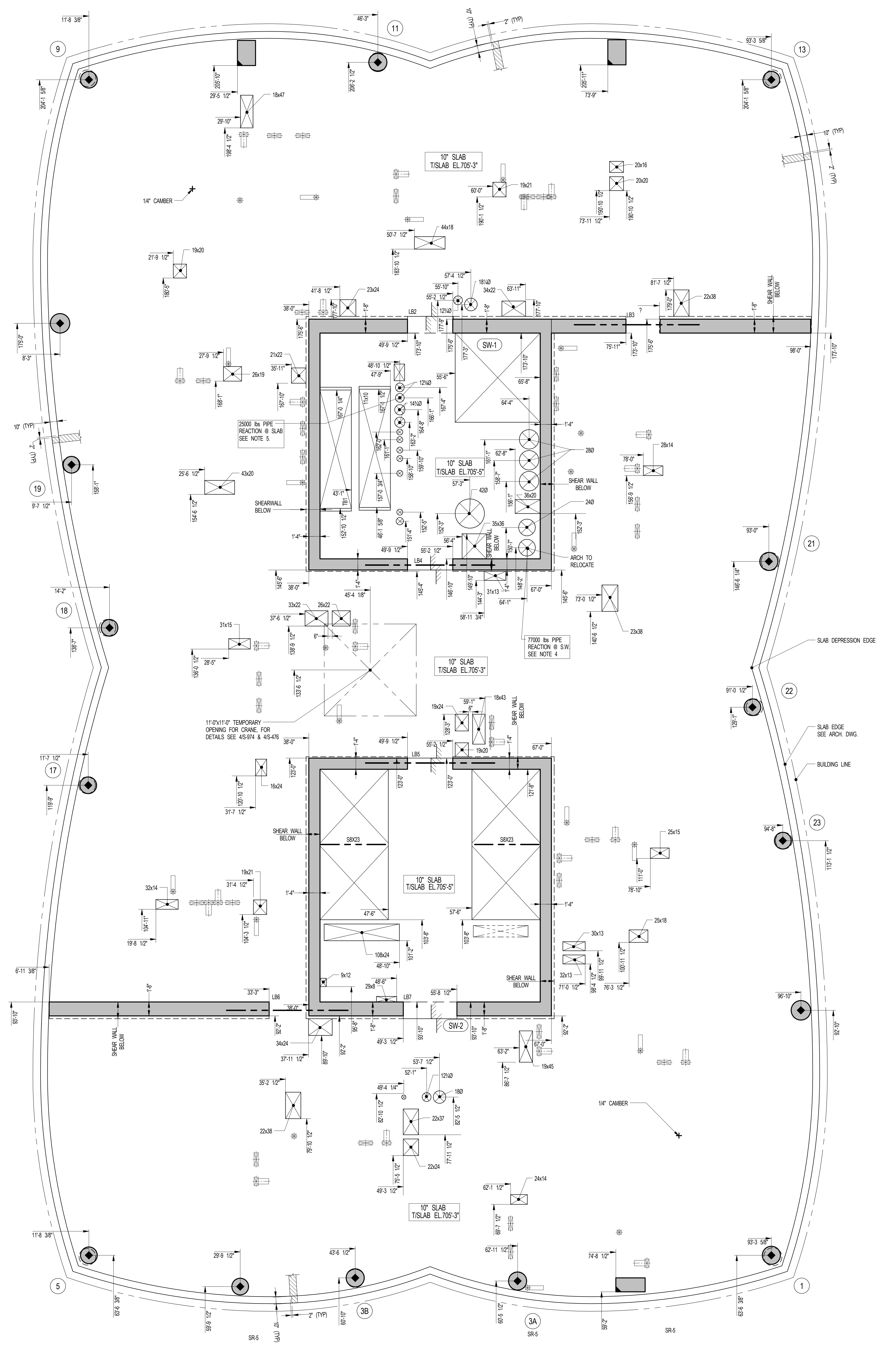
EXTERIOR WALL CONSULTANT:
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1 55TH FLOOR GENERAL ARRANGEMENT PLAN
 SCALE: 3/16" = 1'-0"

NOTES:
 1. TOP OF SLAB ELEVATION TO BE 705'-3" UON ON PLAN THIS []
 2. SLAB TO BE 10" THICK UON THIS [] ON PLAN
 3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN

SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	70% CD	1. 04-27-15
2	85% CD	2. 07-02-15
3	95% CD	3. 11-24-15
4	PAA #2	4. 01-28-16
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NO	ISSUE SET	REV DATE
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DRAWING SCALE
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PROJECT NUMBER
 2012088

TITLE
 55TH FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.

NOTE:
 FOR PERIMETER LOCATION SEE ARCH DWGS.

S-559.00

15 HUDSON YARDS
a.k.a. 553 W 30TH STREET,
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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	100% SD ISSUE	1 02-15-13
2	REVISED SD ISSUE	2 05-06-13
3	REVISED SD ISSUE	3 08-21-13
4	REVISED SD ISSUE	4 08-22-14
5	SUPERSTRUCTURE EARLY BID	5 11-17-14
6	SET	6 12-22-14
7	DESIGN DEVELOPMENT SET	7 12-23-14
8	NYCT SUBMISSION	8 01-20-15
9	UPDATED DOB SET	9 04-27-15
10	70% CD	10 07-02-15
11	85% CD	11 11-24-15
12	95% CD	12 01-28-16
13	PAA #2	
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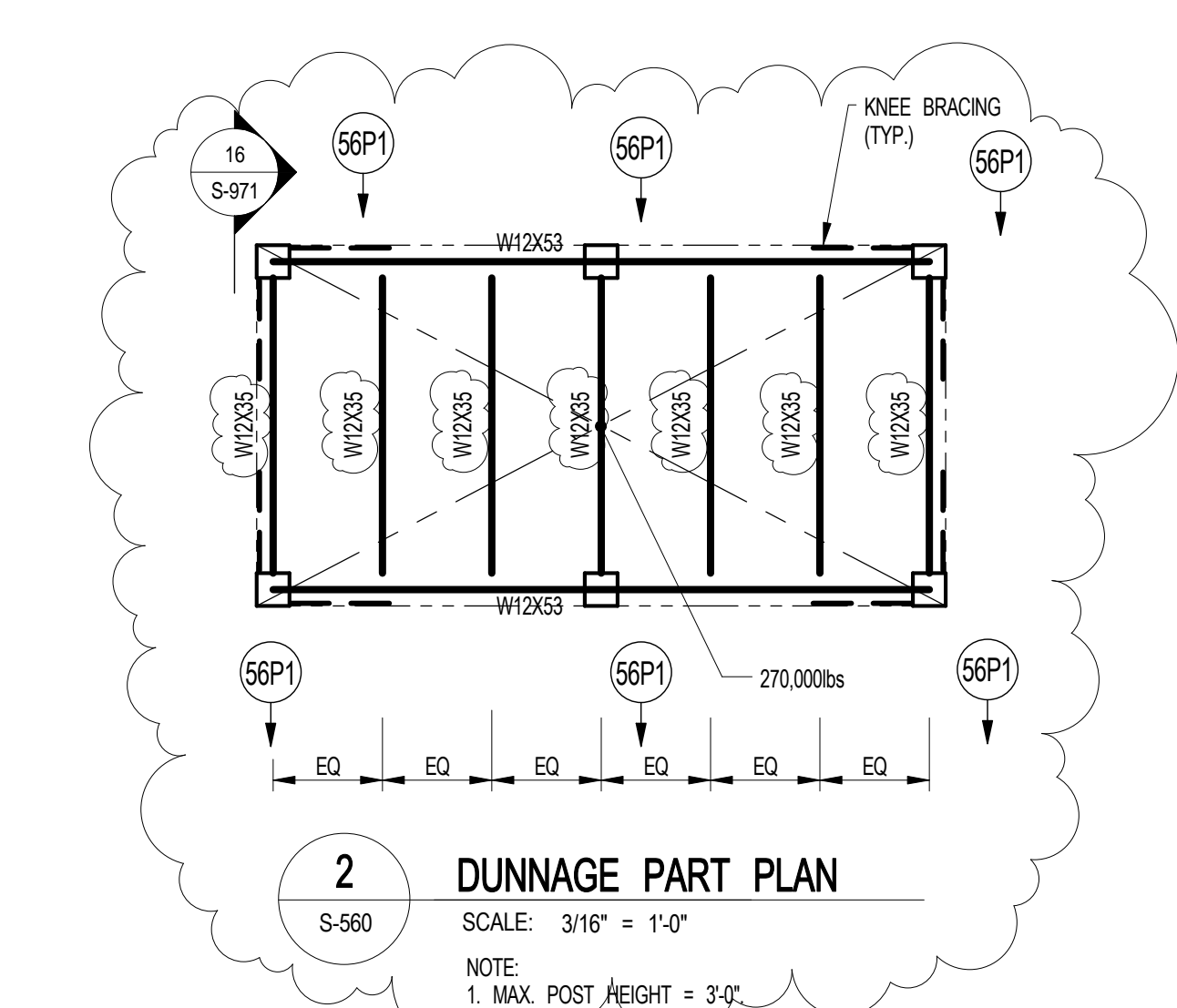
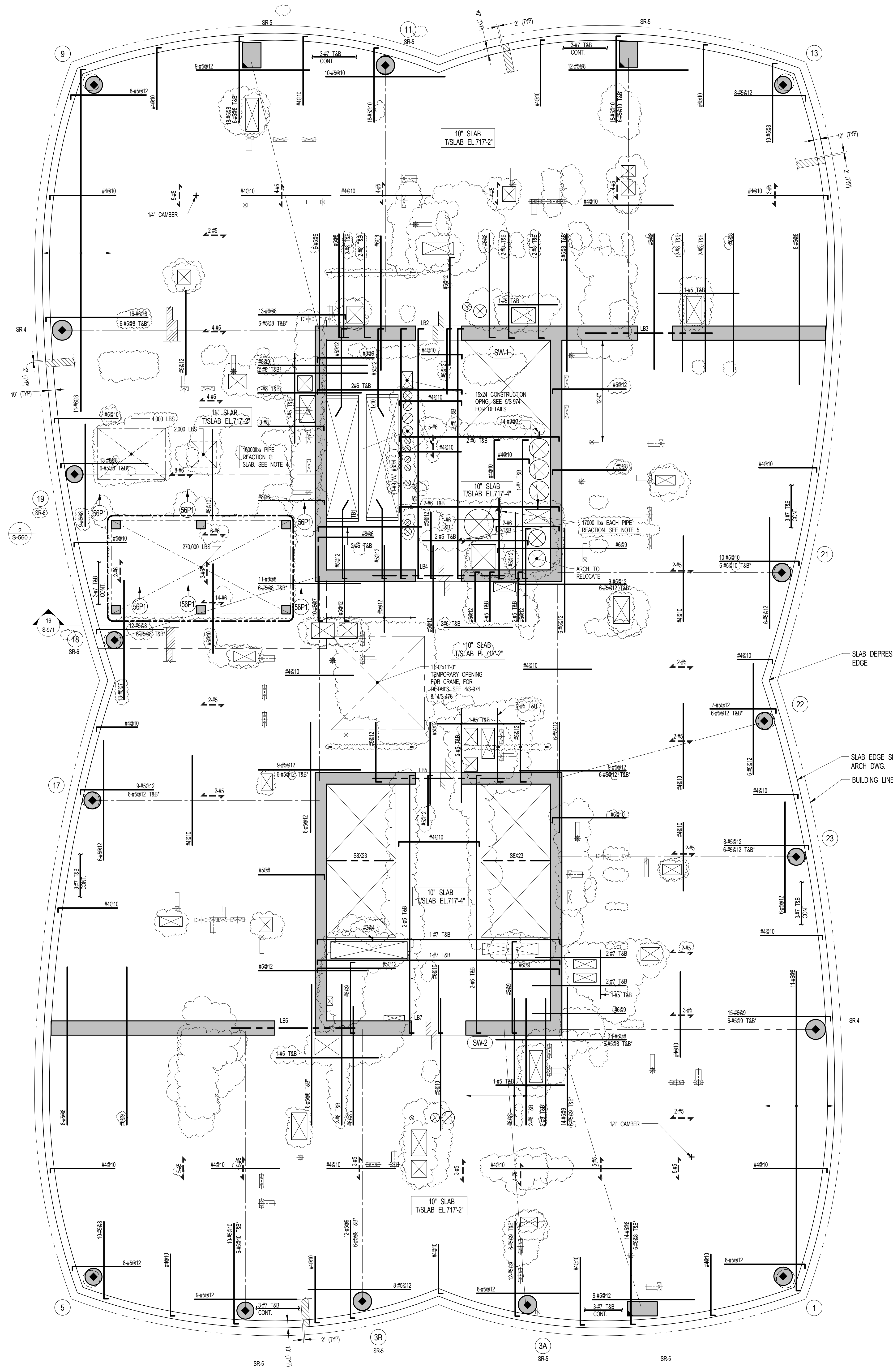
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DRAWING SCALE
As indicated

PROJECT NUMBER
2012088

TITLE
56TH FLOOR FRAMING PLAN

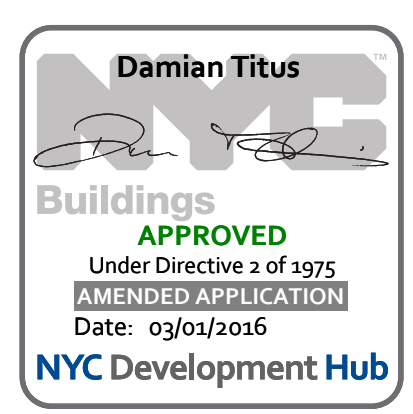
DRAWING NO.
S-560.01



1 56TH FLOOR FRAMING PLAN
S-560
SCALE: 3/16" = 1'-0"

KEY:
[Symbol] INDICATES AREA OF SLEEVES. REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.
[Symbol] INDICATES ADDL. REINF. FOR LATERAL LOADS. SEE TYPICAL FLAT PLATE DETAIL.
SR/XX INDICATES COLUMN WHERE STUD RAIL SHEAR REINF. IS REQUIRED. SEE S-60 SERIES DRAWINGS FOR DETAIL.

- NOTES:
1. TISLAB ELEVATION TO BE 717'-2" U/LN. ON PLAN THIS...
2. SLAB THICKNESS TO BE 7" U/LN. TISLAB... ON PLAN.
3. REINFORCEMENT TO BE #4@10 BOTTOM CONT. EW FOR 10' SLAB U/LN. ON PLAN.
4. #4@12 BOTTOM CONT. EW FOR 12' SLAB U/LN. ON PLAN.
5. #4@10 BOTTOM CONT. EW FOR 15' SLAB U/LN. ON PLAN.
6. SEE MEP DRAWINGS FOR SUPPORT DETAILS. MIN. BEARING AREA ON SLAB TO BE 9"x9".
7. FOR BALANCE OF NOTES SEE DRAWING S-60.



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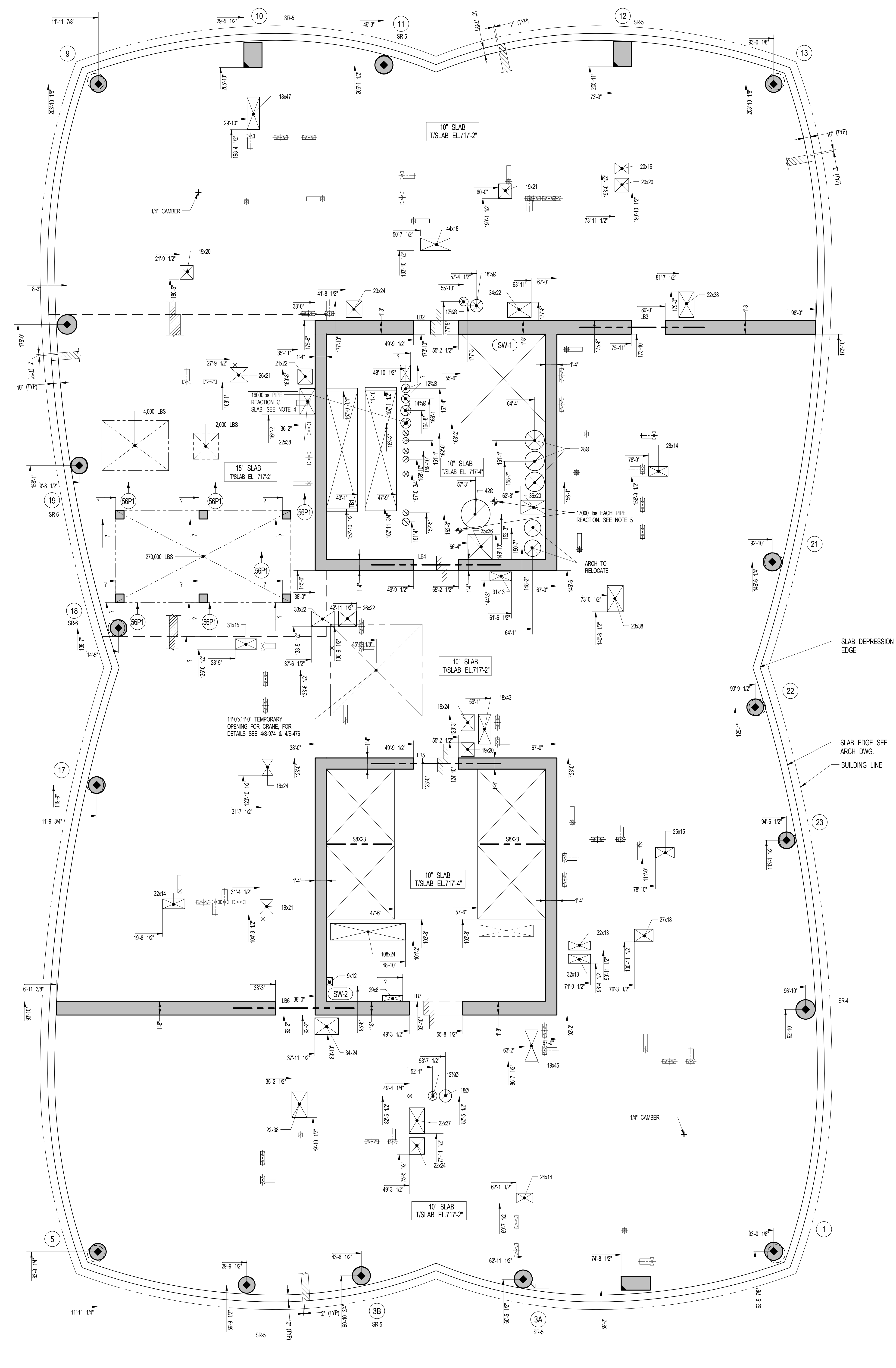
EXTERIOR WALL CONSULTANT:
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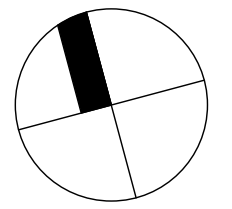


1 56TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE +717'-2" U.O.N. ON PLAN THIS []
2. SLAB TO BE 10" THICK U.O.N. THIS [] ON PLAN
3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN

SHEET NOTES:

KEY PLAN



NO	ISSUE SET	REV	DATE
1	70% CD	1	04-27-15
2	85% CD	2	07-02-15
3	95% CD	3	11-24-15
4	PAA #2	4	01-28-16
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DRAWING SCALE:
As indicated

PROJECT NUMBER:

TITLE:
56TH FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.:
S-569.00

NOTE:
FOR PERIMETER LOCATION SEE ARCH DWGS.

DRAWING NO.:
S-569.00

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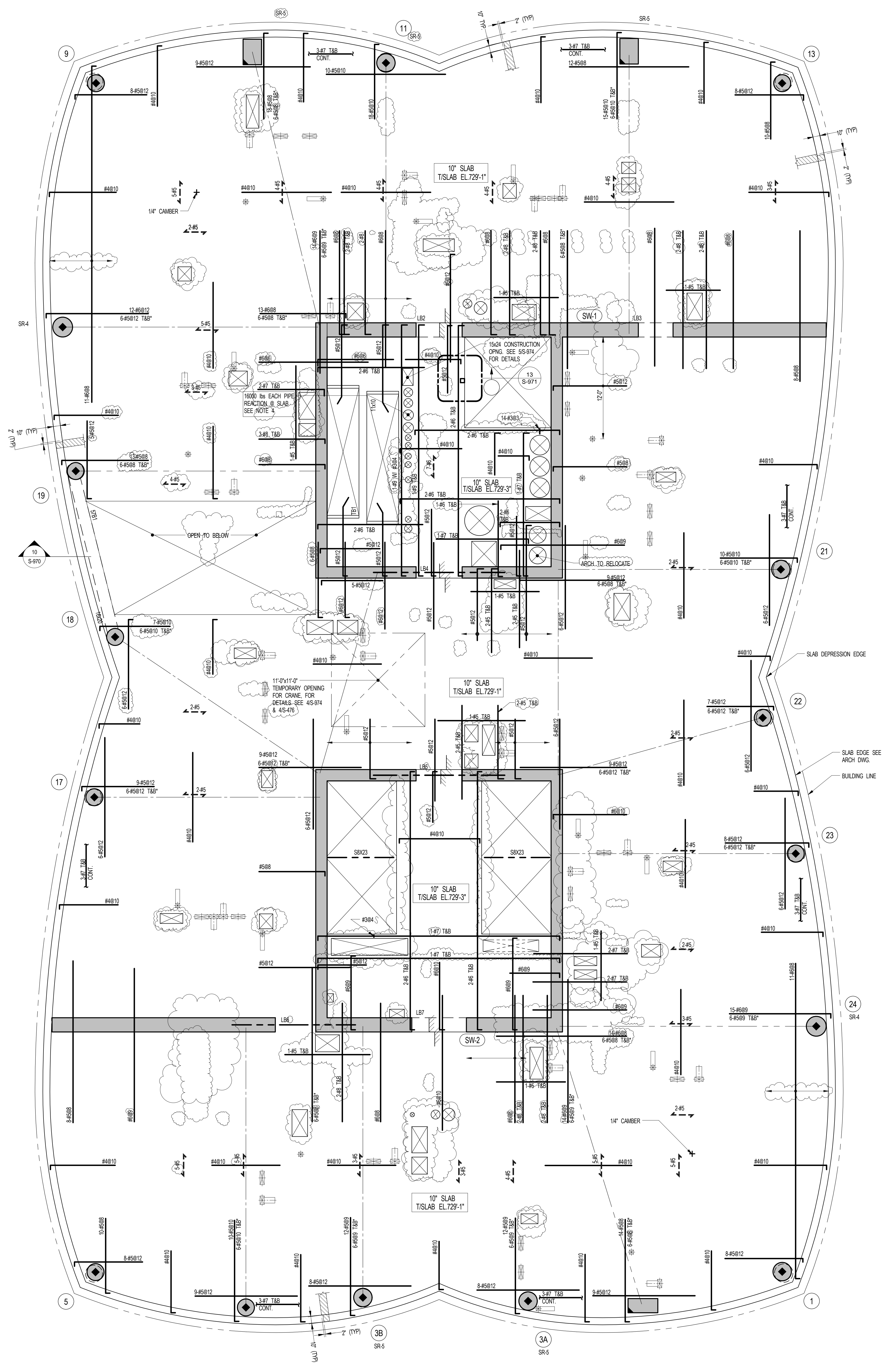
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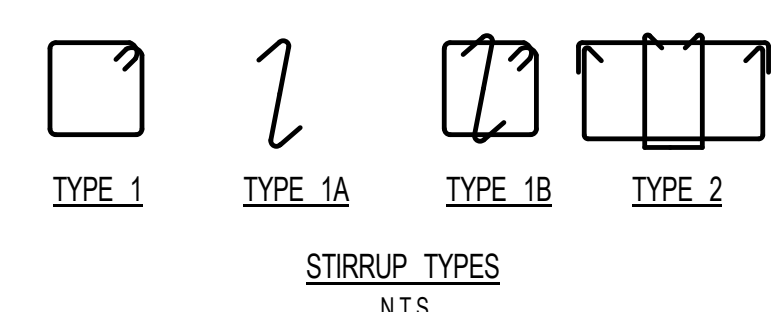
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57TH FL BM SCHEDULE									
BEAM MARK	SIZE (WxD) (IN)	REINFORCEMENT			STIRRUPS		REMARKS		
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TOP ADD'L BARS AT SUPPORT	TYPE	SIZE		SPACING	
57B1	16x20	5-#9	5-#9		2	#4	66	SEE 10S-970	



1 57TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. TISLAB ELEVATION TO BE "729'-11" U.O.N. ON PLAN THUS...
 2. SLAB THICKNESS TO BE 10" U.O.N. THUS... ON PLAN.
 3. BOTTOM MESH REINFORCEMENT TO BE #4@10 CONT. E.W. FOR 10" SLAB U.O.N. ON PLAN.
 4. SEE MEP DRAWINGS FOR SUPPORT DETAILS. MIN BEARING AREA ON SLAB TO BE 5x5'.
 5. FOR BALANCE OF NOTES SEE DRAWING S-510.

- KEY:**
- INDICATES AREA OF SLEEVES. REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.
 - INDICATES ADD'L REINF. FOR LATERAL LOADS. SEE TYPICAL PLATE DETAIL.
 - SRXXX INDICATES COLUMN WHERE STLD. DIAL. SHEAR REINF. IS REQUIRED. SEE S-900 SERIES DRAWINGS FOR DETAIL.

SHEET NOTES:

KEY PLAN

NO.	ISSUE SET	REV.	DATE
1	100% SD ISSUE	1	02-15-13
2	REVISED SD ISSUE	2	06-06-13
3	REVISED SD ISSUE	3	08-21-13
4	REVISED SD ISSUE	4	08-22-14
5	SUPERSTRUCTURE EARLY BID	5	11-17-14
6	SET	6	12-22-14
7	DESIGN DEVELOPMENT SET	7	12-23-14
8	NYCT SUBMISSION	8	01-20-15
9	UPDATED DOB SET	9	04-27-15
10	70% CD	10	07-02-15
11	85% CD	11	11-24-15
12	95% CD	12	01-28-16
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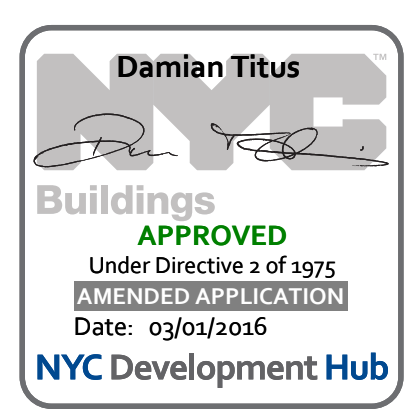
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12/26/16 7:10:41 PM

DRAWING SCALE:
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PROJECT NUMBER:
2012088

TITLE:
57TH FLOOR FRAMING PLAN

DRAWING NO.:
S-570.01



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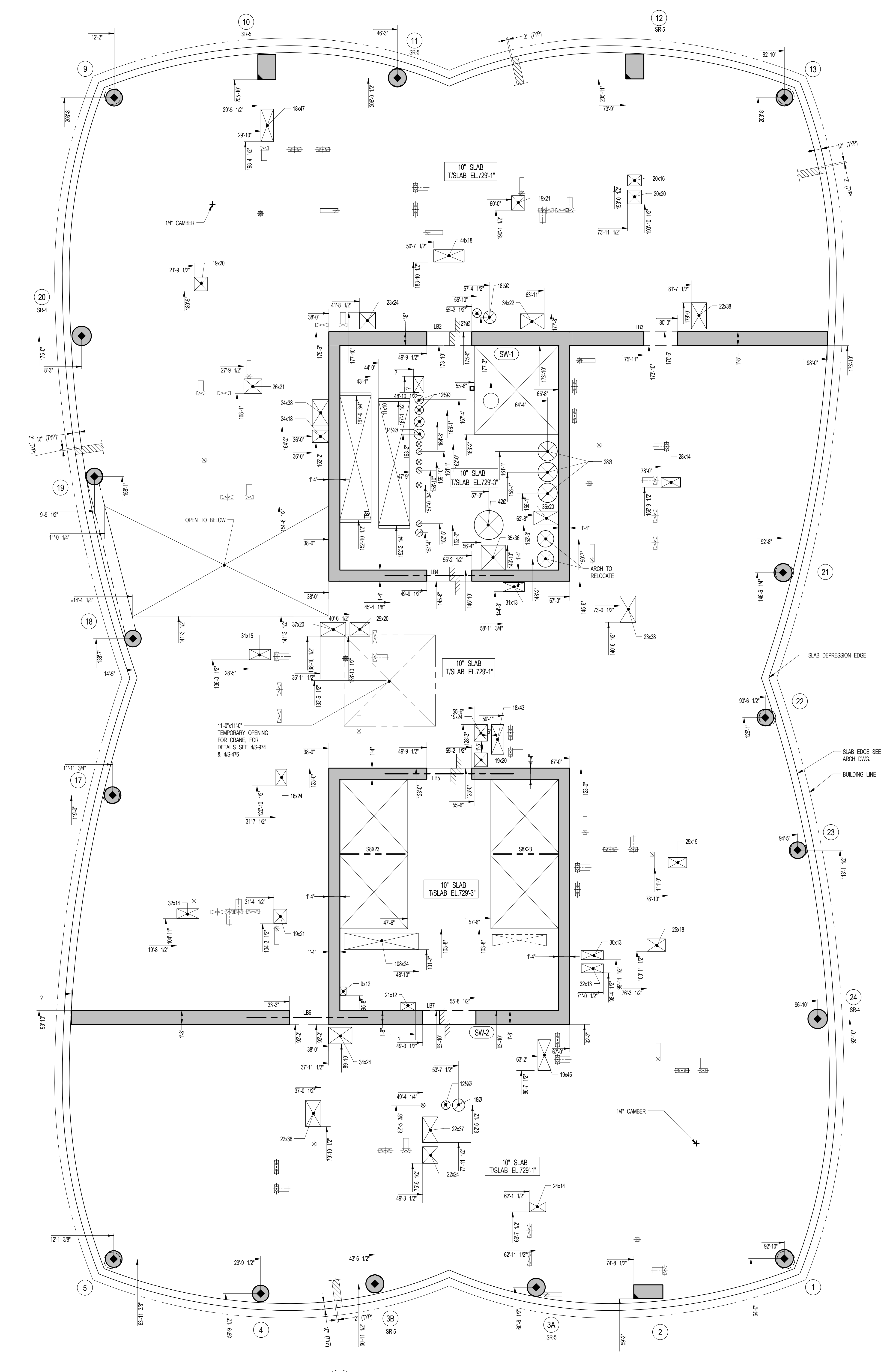
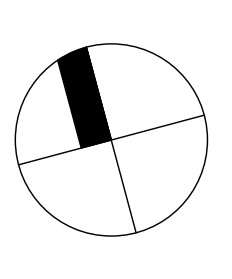
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LANDSCAPE DESIGNER:
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SHEET NOTES:

1 SUPERSTRUCTURE EARLY BID 1 11-17-14
2 SET
3 DESIGN DEVELOPMENT SET 2 12-22-14
4 75% CD 3 04-27-15
5 85% CD 4 07-02-15
6 95% CD 5 11-24-15
7 PAA #2 6 01-28-16
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KEY PLAN



1 57TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
- TOP OF SLAB ELEVATION TO BE +729'-1" UNLESS NOTED OTHERWISE ON THIS PLAN
 - SLAB TO BE 10" THICK UNLESS NOTED OTHERWISE ON THIS PLAN
 - FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN

NOTE:
FOR PERIMETER
LOCATION SEE ARCH DWGS



DATE OF PRINT
1/26/2016 5:34:27 PM

DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
57TH FLOOR GENERAL ARRANGEMENT
PLAN

DRAWING NO.
S-579.00

OWNER:
Related Companies
90 Columbus Circle
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EXECUTIVE ARCHITECT:
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DESIGNER:
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DESIGNER:
Rockwell Group
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STRUCTURAL ENGINEER:
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MEP ENGINEER:
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EXTERIOR WALL CONSULTANT:
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VERTICAL TRANSPORTATION:
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LEED CONSULTANT:
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ACOUSTICAL CONSULTANTS:
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LANDSCAPE DESIGNER:
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KEY PLAN



KEY
INDICATES AREA OF SLEEVES. REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.

NO. ISSUE SET **REV DATE**

1	FINAL SD ISSUE	1	11-25-13
2	REVISED SD	2	08-22-14
3	REVISED AS NOTED	3	09-29-14
4	SUPERSTRUCTURE EARLY BID	4	11-17-14
5	SET		
6	NYCT SUBMISSION	5	12-23-14
7	UPDATED DOB SET	6	01-29-15
8	TWOCD	7	04-27-15
9	85% CD	8	07-02-15
10	80% PARTIAL CD ISSUE - FLOORS	9	09-03-15
11	SC-12		
12	85% CD	10	11-24-15
13	FAA #2	11	01-26-16
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21			
22			

STAMP



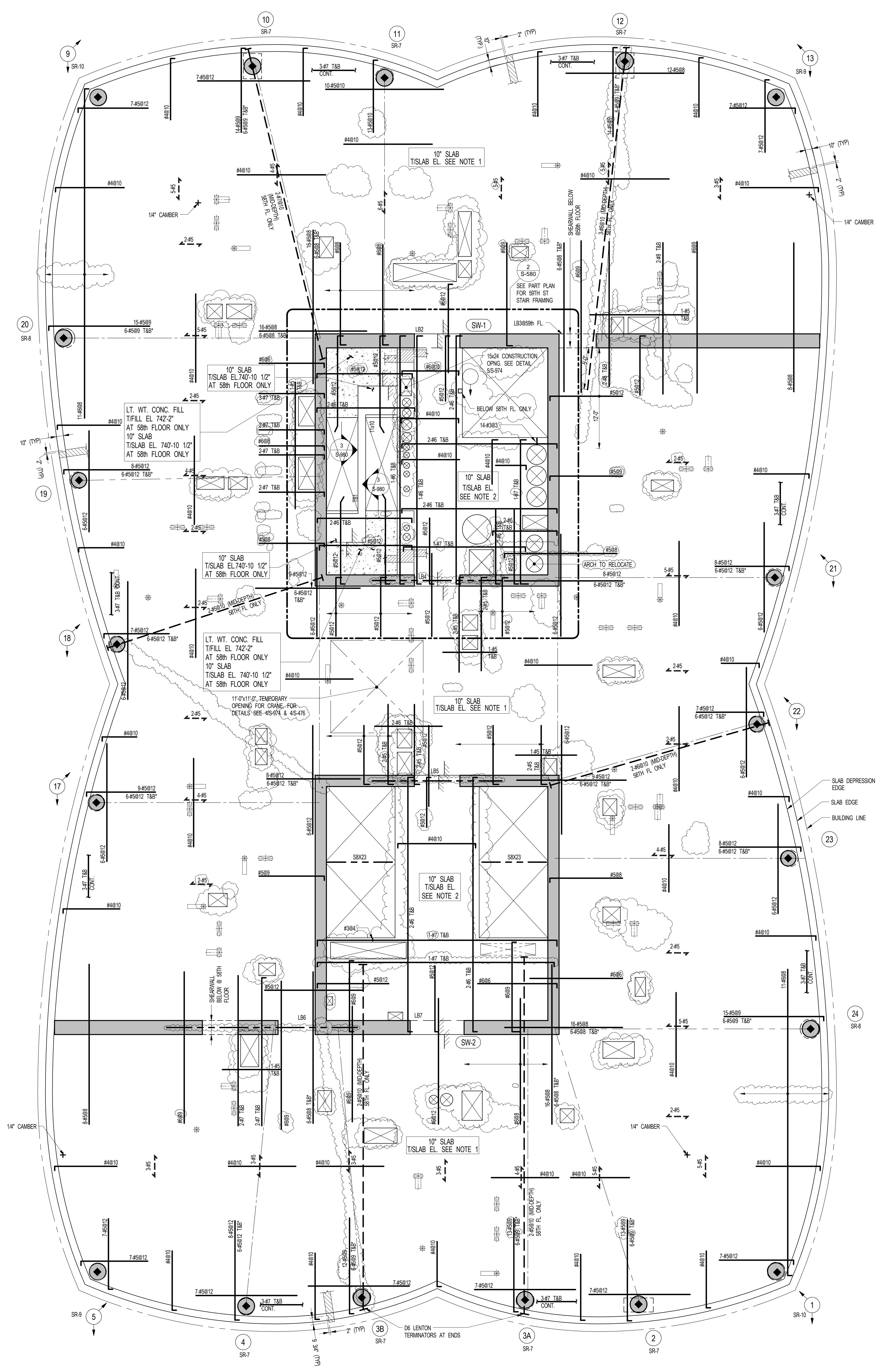
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DRAWING SCALE
As indicated

PROJECT NUMBER
2012088

TITLE
58TH-59TH FLOOR FRAMING PLAN

DRAWING NO.
S-580.01



1 58TH FLOOR FRAMING PLAN
S-580 SCALE: 3/16" = 1'-0"

NOTES:

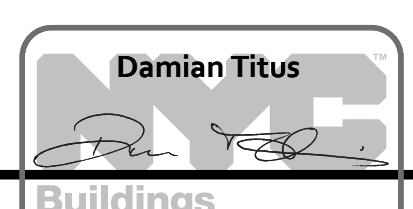
1. SLAB ELEVATION TO BE 742'-0" @ 58TH FLOOR U.O.N.
753'-11" @ 59TH FLOOR U.O.N.
2. SLAB ELEVATION TO BE 2" HIGHER THAN THE SLAB ELEVATION INDICATED IN NOTE 1.
3. SLAB THICKNESS TO BE 10" U.O.N. THIS IS ON PLAN.
4. BOTTOM MESH REINFORCEMENT TO BE #4@10" CONT. E.W. FOR 10" SLAB U.O.N. ON PLAN.
5. FOR BALANCE OF NOTES SEE DRAWING S-010.

2 59TH FLOOR STAIR PART FRAMING PLAN
S-580 SCALE: 3/16" = 1'-0"

NOTES:

1. SEE 1S-580 FOR BALANCE OF INFORMATION.

NOTE:
REIN. INDICATED AT 58TH-59TH FLOORS



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F: 212-269-5894

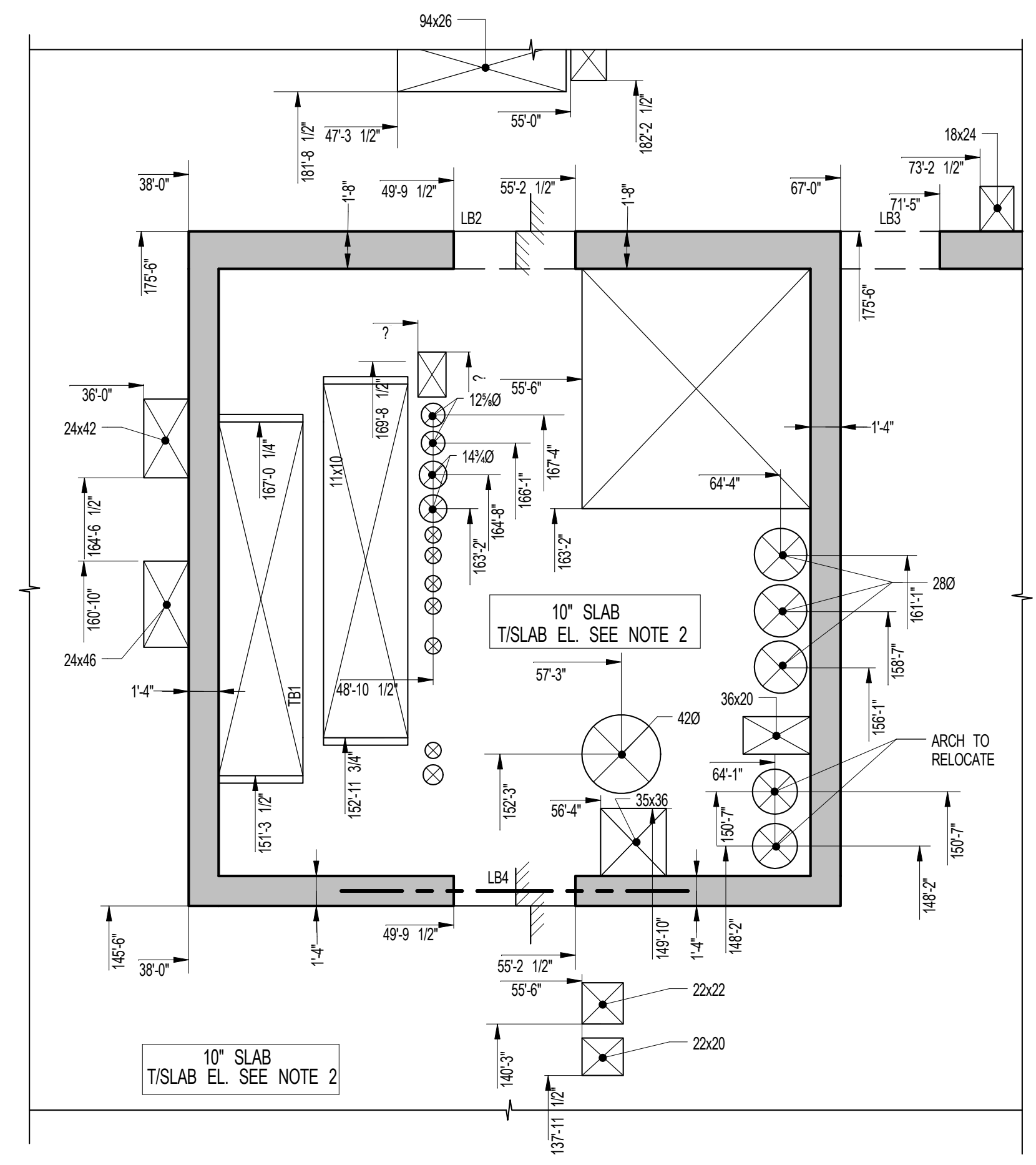
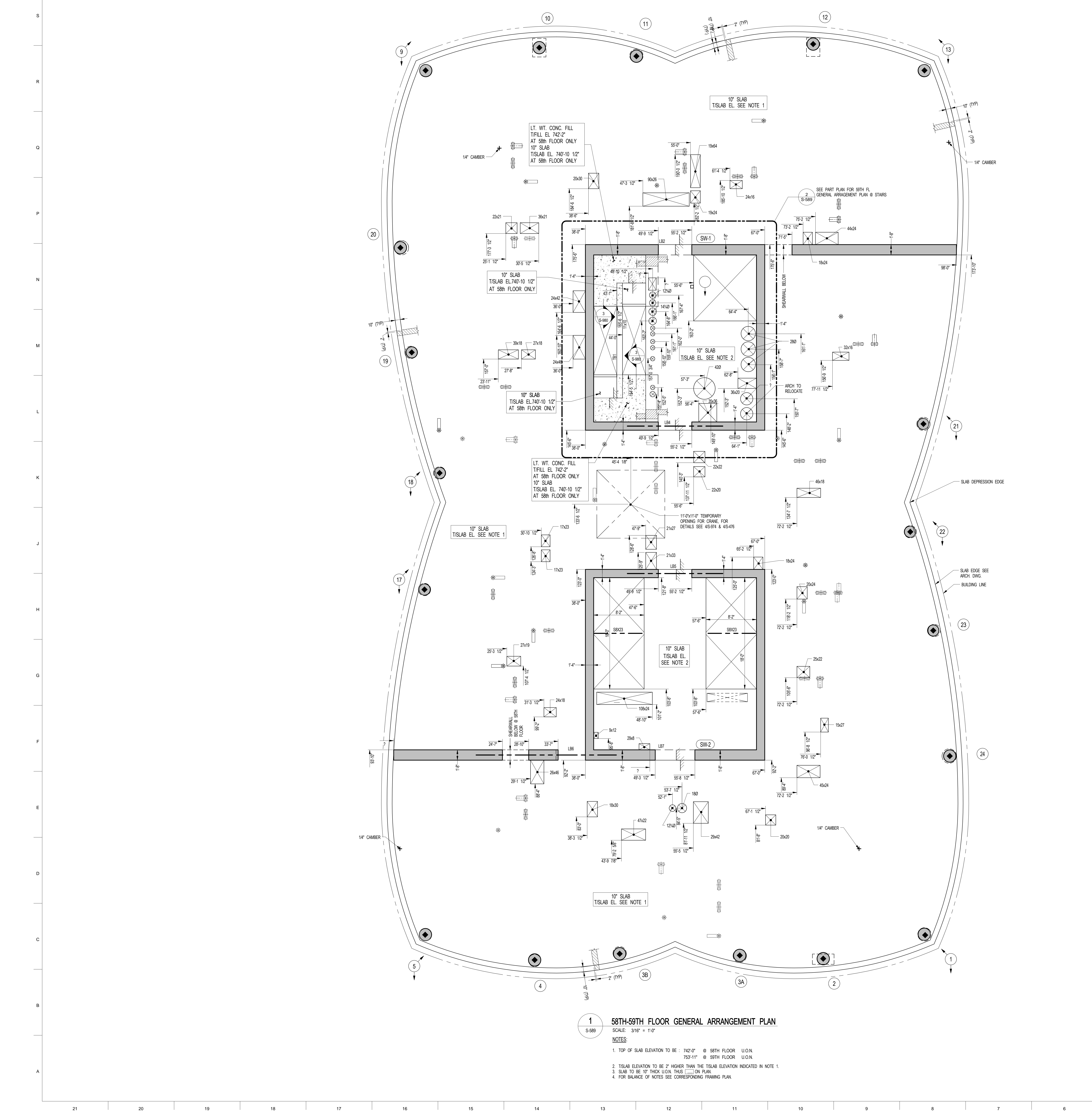
EXTERIOR WALL CONSULTANT:
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2 59TH FLOOR STAIR PART GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

S-589 PERIMETER COLUMN COORDINATES					
COLUMN ID	BASE LEVEL	TOP LEVEL	EW COORD.	NS COORD.	REMARKS
1	58TH FLOOR	59TH FLOOR			SEE S-954
2	58TH FLOOR	60TH FLOOR			SEE S-954
3A	58TH FLOOR	59TH FLOOR	76'-5 1/2"	60'-1 1/4"	
3B	58TH FLOOR	59TH FLOOR	62'-11 1/2"	60'-7 1/4"	
3C	58TH FLOOR	59TH FLOOR	62'-11 1/2"	60'-9"	
4	58TH FLOOR	59TH FLOOR	43'-6 1/2"	60'-10 1/2"	
5	58TH FLOOR	59TH FLOOR	43'-6 1/2"	60'-11 1/4"	
6	58TH FLOOR	59TH FLOOR	29'-9 1/2"	59'-10 1/2"	SEE S-954
9	58TH FLOOR	59TH FLOOR			SEE S-954
10	58TH FLOOR	60TH FLOOR			SEE S-954
11	58TH FLOOR	59TH FLOOR	30'-6 1/2"	207'-4"	
12	58TH FLOOR	59TH FLOOR	46'-3"	205'-11 1/2"	
13	58TH FLOOR	59TH FLOOR	46'-3"	205'-10"	
17	58TH FLOOR	60TH FLOOR	74'-10"	207'-11"	SEE S-954
18	58TH FLOOR	59TH FLOOR			SEE S-954
19	58TH FLOOR	59TH FLOOR			SEE S-954
20	58TH FLOOR	60TH FLOOR	9'-11"	158'-1"	SEE S-954
21	58TH FLOOR	60TH FLOOR	10'-0 1/2"	158'-1"	SEE S-954
22	58TH FLOOR	59TH FLOOR	8'-1"	175'-0"	SEE S-954
23	58TH FLOOR	59TH FLOOR			SEE S-954
24	58TH FLOOR	60TH FLOOR	94'-3"	113'-1 1/2"	
			94'-1"	113'-1 1/2"	
			95'-11"	92'-10"	

NOTES:
1. ALL COLUMN COORDINATES ARE TO CENTERLINE OF COLUMN UNLESS OTHERWISE NOTED ON PLAN.

KEY:
EW COORD.
NS COORD.

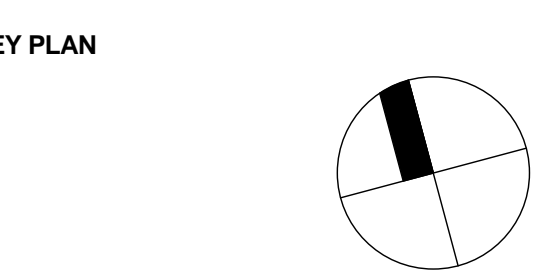
NOTE:
FOR RECTANGULAR COLUMNS SEE PLAN FOR HOLD POINT LOCATION.

1 58TH-59TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:
1. TOP OF SLAB ELEVATION TO BE: 742'-0" @ 58TH FLOOR U.O.N.
753'-11" @ 59TH FLOOR U.O.N.
2. SLAB ELEVATION TO BE 2" HIGHER THAN THE TISLAB ELEVATION INDICATED IN NOTE 1.
3. SLAB TO BE 10" THICK UNLESS INDICATED OTHERWISE ON PLAN.
4. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

NOTE:
SEE S-954 FOR THE
COORDINATES OF THE
FOLLOWING SLOPED COLUMNS:
1, 5, 9, 13, 17, 18, 21, 22

NOTE:
FOR PERIMETER
LOCATION SEE ARCH DWGS



NO.	ISSUE SET	REV DATE
1	70% CD	1. 04-27-15
2	85% CD	2. 07-02-15
3	95% CD	3. 11-24-15
4	PAA #2	4. 01-28-16
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DRAWING SCALE
3/16" = 1'-0"

PROJECT NUMBER

TITLE
58TH-59TH FLOOR GENERAL
ARRANGEMENT PLAN

DRAWING NO.
S-589.00

OWNER:
Related Companies
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SHEET NOTES:

KEY PLAN

NO. ISSUE SET REV DATE

1	FINAL SD ISSUE	1	11-25-13
2	REVISED SD	2	08-22-14
3	SUPERSTRUCTURE EARLY BID SET	3	11-17-14
4	SET	4	12-22-14
5	DESIGN DEVELOPMENT SET	5	12-23-14
6	NYCT SUBMISSION	6	01-29-15
7	UPDATED DOB SET	7	04-27-15
8	TWOCD	8	07-02-15
9	85% CD	9	11-24-15
10	90% CD	10	01-26-16
11	PPA #2	11	

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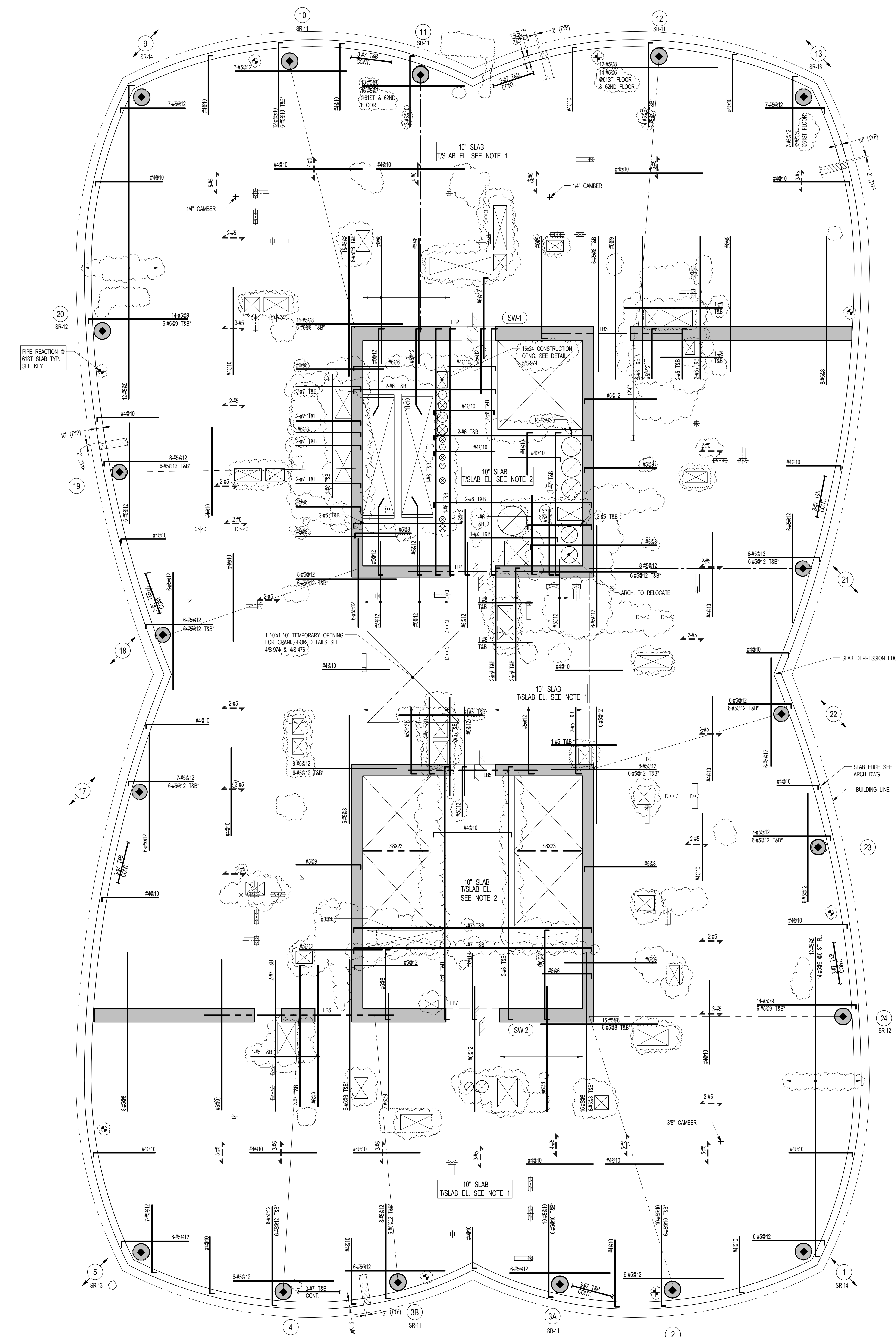
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1/26/2016 7:10:52 PM

DRAWING SCALE
As indicated

PROJECT NUMBER
2012058

TITLE
60TH-62ND FLOOR FRAMING PLAN

DRAWING NO.
S-600.01

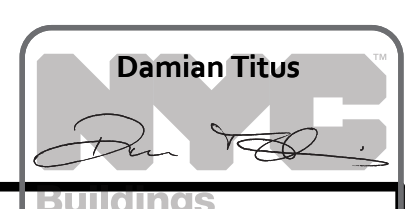


1 60TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

- NOTES:
- TISLAB ELEVATION TO BE 765'-10" @ 60TH FLOOR U.O.N.
777'-0" @ 61ST FLOOR U.O.N.
789'-8" @ 62ND FLOOR U.O.N.
 - TISLAB ELEVATION TO BE 7" HIGHER THAN THE TISLAB ELEVATION INDICATED IN NOTE 1.
 - SLAB THICKNESS TO BE 10" U.O.N. THIS IS ON PLAN.
 - BOTTOM MESH REINFORCEMENT TO BE #4@10 CONT. E.M. FOR 10" SLAB U.O.N. ON PLAN.
 - FOR BALANCE OF NOTES SEE DRAWING 5010.

- KEY:
- INDICATES AREA OF SLEEVES REBAR FOR CONTINUOUS AND PLACED BETWEEN SLEEVES.
 - INDICATES ADDL. REIN. FOR LATERAL LOADS. SEE TYPICAL FLAT PLATE DETAIL.
 - SR-XX INDICATES COLUMN WHERE STUD. RAIL SHEAR REIN. IS REQUIRED. SEE SR-00 SERIES DRAWINGS FOR DETAIL.
 - INDICATES 200% PIPE REACTION ON SLAB REIN. FLOOR SLAB. MIN. BEARING AREA 7'x7' SEE MEP DRAWINGS FOR DETAILS.

NOTE:
REIN. INDICATED AT
60TH-62ND FLOORS



APPROVED
Damian Titus
Professional Engineer
State of New York
No. 13078
Exp. 12/31/2016

Drawing No. S-600.01

15 HUDSON YARDS
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NEW YORK, NY.

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DESIGNER:
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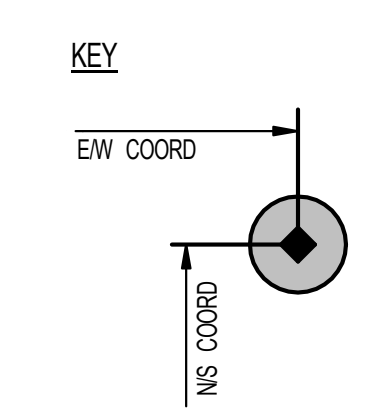
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LANDSCAPE DESIGNER:
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T: 212-260-2270

COLUMN ID	BASE LEVEL	TOP LEVEL	EW COORD.	N/S COORD.	Comments
1	61ST FLOOR	61ST FLOOR			SEE S-954
1	61ST FLOOR	62ND FLOOR			SEE S-954
1	61ST FLOOR	63RD FLOOR			SEE S-954
2	60TH FLOOR	63RD FLOOR	76'-5 1/2"	60'-1"	
3A	60TH FLOOR	61ST FLOOR	62'-11 1/2"	60'-9 3/4"	
3A	62ND FLOOR	63RD FLOOR	62'-11 1/2"	60'-9 3/4"	
3B	60TH FLOOR	61ST FLOOR	43'-6 1/2"	61'-0"	
3B	62ND FLOOR	63RD FLOOR	43'-6 1/2"	61'-0 3/4"	
4	60TH FLOOR	63RD FLOOR	29'-9 1/2"	59'-10 1/2"	SEE S-954
5	61ST FLOOR	62ND FLOOR			SEE S-954
5	62ND FLOOR	63RD FLOOR			SEE S-954
9	60TH FLOOR	61ST FLOOR	30'-6 1/2"	207'-4"	
10	60TH FLOOR	63RD FLOOR	46'-3"	205'-8 1/2"	
11	61ST FLOOR	62ND FLOOR	46'-3"	205'-7"	
11	62ND FLOOR	63RD FLOOR	46'-3"	205'-5 1/2"	
12	60TH FLOOR	63RD FLOOR	74'-10"	207'-11"	SEE S-954
13	60TH FLOOR	61ST FLOOR			SEE S-954
13	61ST FLOOR	62ND FLOOR			SEE S-954
13	62ND FLOOR	63RD FLOOR			SEE S-954
17	60TH FLOOR	61ST FLOOR			SEE S-954
17	61ST FLOOR	62ND FLOOR			SEE S-954
17	62ND FLOOR	63RD FLOOR			SEE S-954
18	60TH FLOOR	61ST FLOOR			SEE S-954
18	61ST FLOOR	62ND FLOOR			SEE S-954
18	62ND FLOOR	63RD FLOOR			SEE S-954
19	60TH FLOOR	61ST FLOOR	10'-2"	158'-1"	
19	61ST FLOOR	62ND FLOOR	10'-3 1/2"	158'-1"	
19	62ND FLOOR	63RD FLOOR	10'-5"	158'-1"	
20	60TH FLOOR	63RD FLOOR	8'-1"	175'-0"	
21	60TH FLOOR	61ST FLOOR			SEE S-954
21	62ND FLOOR	63RD FLOOR			SEE S-954
22	60TH FLOOR	61ST FLOOR			SEE S-954
22	62ND FLOOR	63RD FLOOR			SEE S-954
23	60TH FLOOR	61ST FLOOR	93'-11"	113'-1 1/2"	
23	61ST FLOOR	62ND FLOOR	93'-9"	113'-1 1/2"	
23	62ND FLOOR	63RD FLOOR	93'-7"	113'-1 1/2"	
24	60TH FLOOR	63RD FLOOR	96'-11"	92'-10"	

NOTES:
1. ALL COLUMN COORDINATES ARE TO CENTERLINE OF COLUMN UNLESS OTHERWISE NOTED ON PLAN.



SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	70% CD	1 04-27-15
2	85% CD	2 07-02-15
3	95% CD	3 11-24-15
4	PAA #2	4 01-28-16
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STAMP

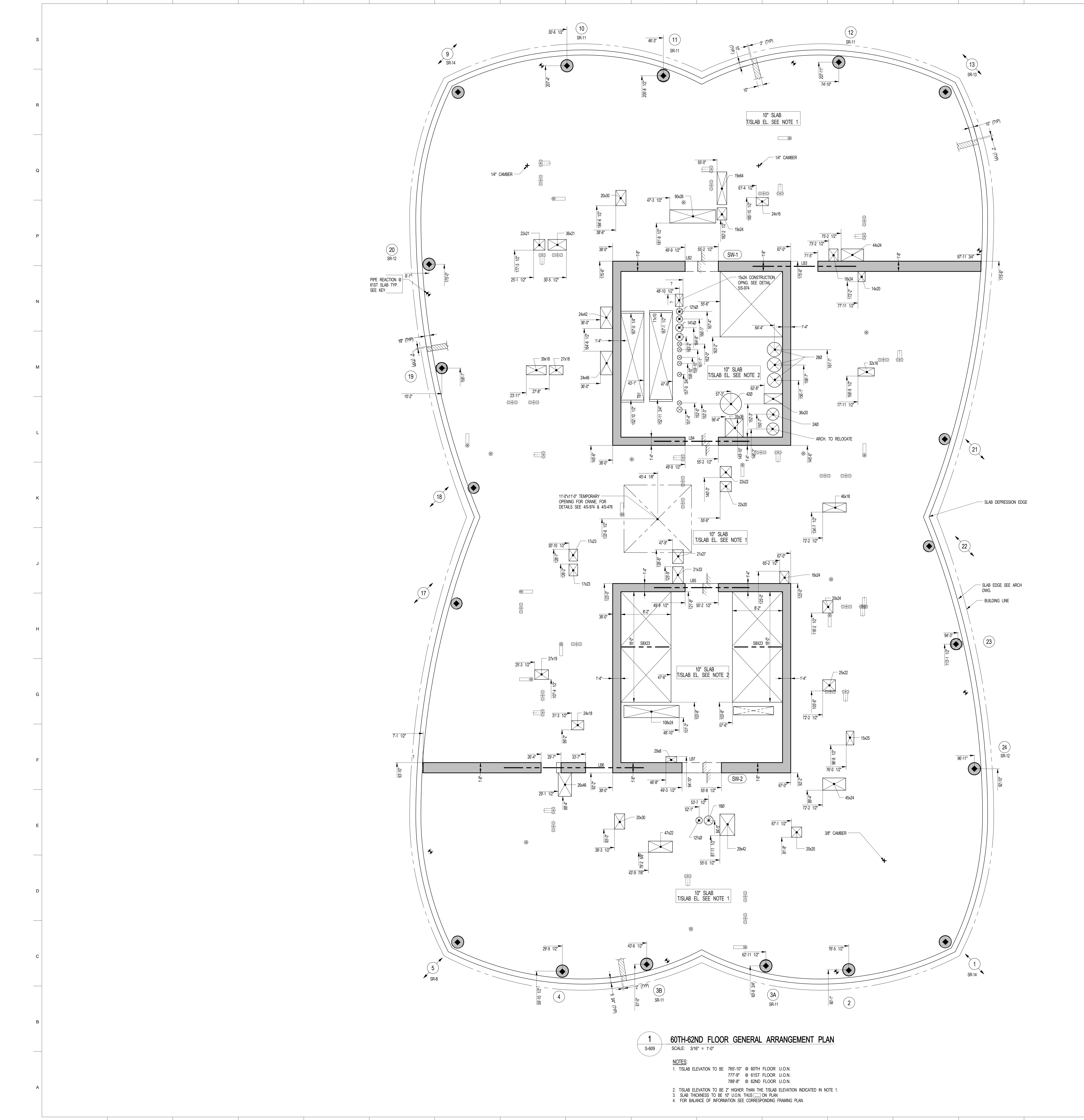
DATE OF PRINT
1/26/2016 5:34:39 PM

DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
60TH-62ND FLOOR GENERAL
ARRANGEMENT PLAN

DRAWING NO.
S-609.00



1 60TH-62ND FLOOR GENERAL ARRANGEMENT PLAN
S-609 SCALE: 3/16" = 1'-0"

NOTES:
1. TISLAB ELEVATION TO BE 765'-10" @ 60TH FLOOR U.O.N.
777'-9" @ 61ST FLOOR U.O.N.
789'-8" @ 62ND FLOOR U.O.N.
2. TISLAB ELEVATION TO BE 2" HIGHER THAN THE TISLAB ELEVATION INDICATED IN NOTE 1.
3. SLAB THICKNESS TO BE 10" U.O.N. THIS --- ON PLAN.
4. FOR BALANCE OF INFORMATION SEE CORRESPONDING FRAMING PLAN.

NOTE:
SEE S-954 FOR THE
COORDINATES OF THE
FOLLOWING SLOPED COLUMNS:
1, 5, 9, 13, 17, 18, 21, 22, 23

NOTE:
FOR PERIMETER
LOCATION SEE ARCH-FWGS

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- ACOUSTICAL CONSULTANTS:**
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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	FINAL SD ISSUE	1 11-25-13
2	REVISED SD	2 08-22-14
3	SUPERSTRUCTURE EARLY BID	3 11-17-14
4	SET	4 12-22-14
5	DESIGN DEVELOPMENT SET	5 12-23-14
6	NYCT SUBMISSION	6 01-29-15
7	UPDATED DOB SET	7 04-27-15
8	TWOCD	8 07-02-15
9	85% CD	9 11-24-15
10	90% CD	10 01-26-16
11	PA# #2	
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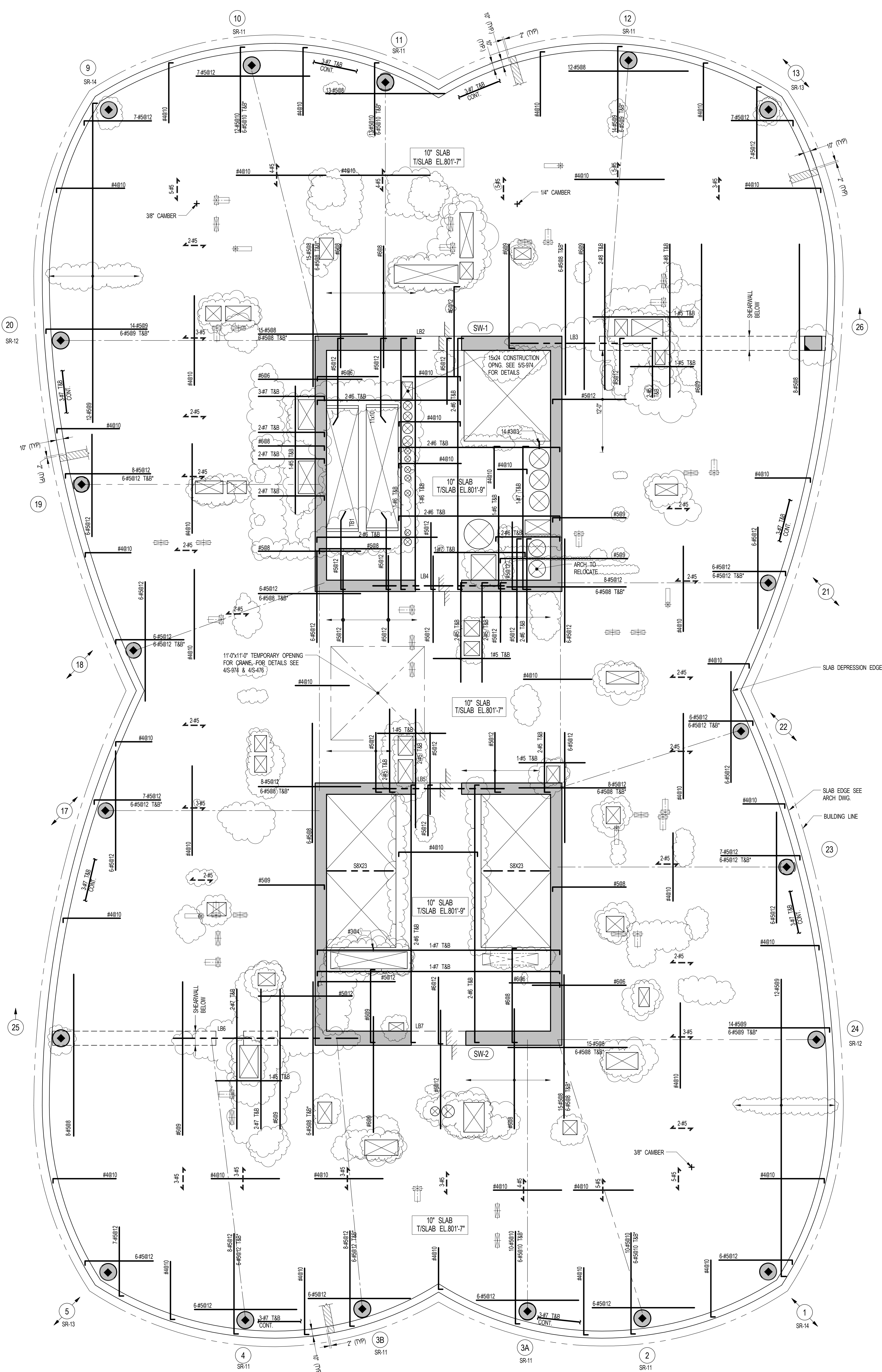
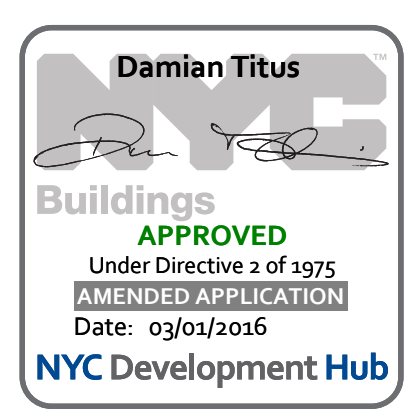
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12/26/2016 7:10:57 PM

DRAWING SCALE
As indicated

PROJECT NUMBER
2012088

TITLE
63RD FLOOR FRAMING PLAN

DRAWING NO.
S-630.01



1 63RD FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. T/S LAB ELEVATION TO BE 801'-7" U.O.N. ON PLAN THIS []
 2. SLAB THICKNESS TO BE 10" U.O.N. THIS [] ON PLAN
 3. BOTTOM MESH REINFORCEMENT TO BE #4@10 CONT. E.W. FOR 10' SLAB U.O.N. ON PLAN
 4. FOR BALANCE OF NOTES SEE DRAWING S410.

KEY
[] INDICATES AREA OF SLEEVES. REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.

15 HUDSON YARDS
a.k.a. 553 W 30TH STREET,
NEW YORK, NY.

OWNER:
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DESIGNER:
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601 West 26 Street -1815
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T: 212.260.7971

DESIGNER:
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MEP ENGINEER:
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F: 212-269-5894

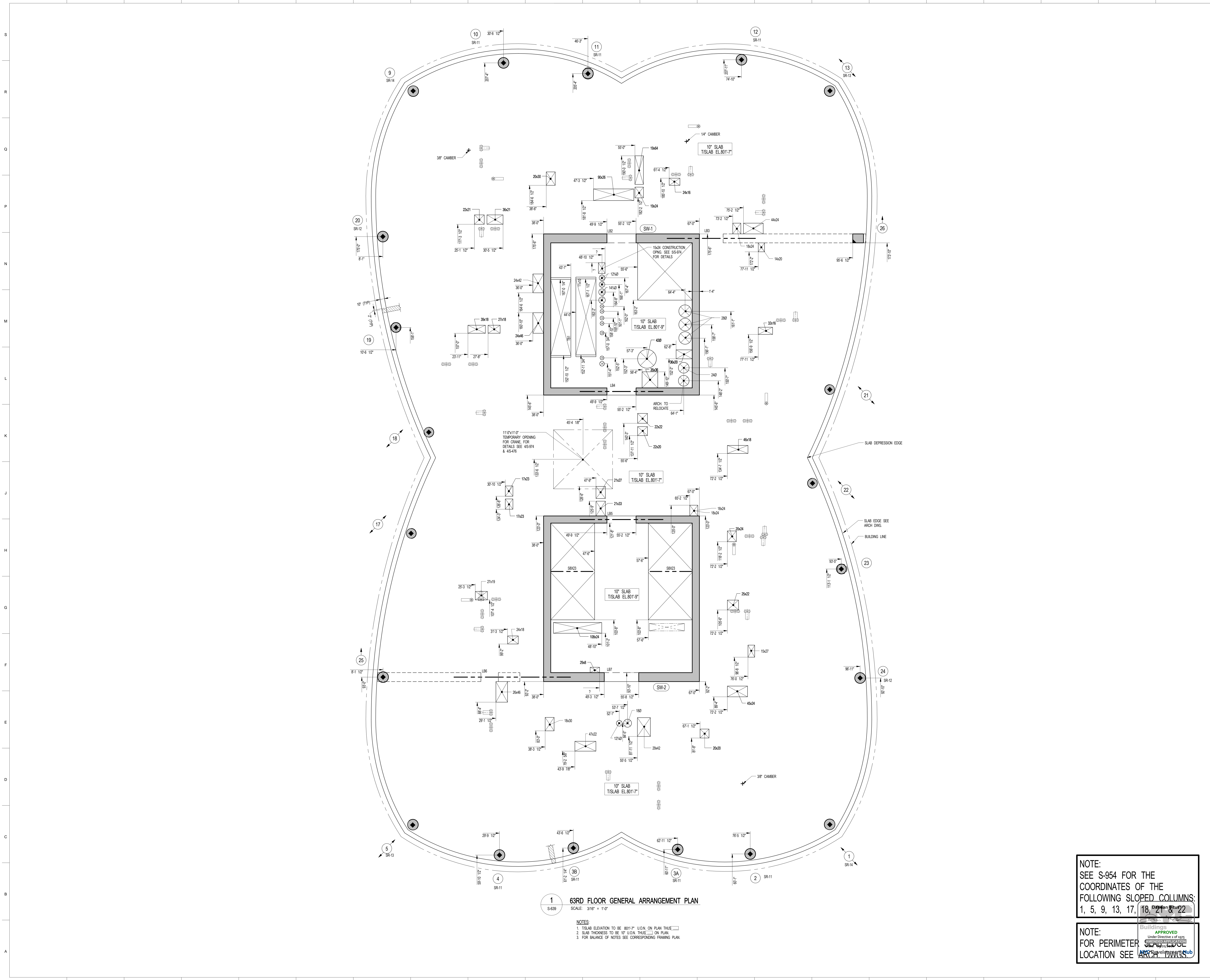
EXTERIOR WALL CONSULTANT:
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LANDSCAPE DESIGNER:
Nelson Byrd Woltz
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New York, NY 10003
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1 63RD FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. SLAB ELEVATION TO BE 80'-7" U.O.N. ON PLAN THIS
 2. SLAB THICKNESS TO BE 12" U.O.N. THIS
 3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

NOTE:
SEE S-954 FOR THE
COORDINATES OF THE
FOLLOWING SLOPED COLUMNS:
1, 5, 9, 13, 17, 18, 21, 22

NOTE:
FOR PERIMETER
LOCATION SEE ARCH. DWGS.

SHEET NOTES:

KEY PLAN

NO.	ISSUE SET	REV. DATE
1	70% CD	1. 04-27-15
2	85% CD	2. 07-02-15
3	95% CD	3. 11-24-15
4	PAA #2	4. 01-28-16
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DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
63RD FLOOR GENERAL ARRANGEMENT
PLAN

DRAWING NO.
S-639.00

OWNER:
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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	FINAL SD ISSUE	1 11-25-13
2	REVISED SD	2 08-22-14
3	SUPERSTRUCTURE EARLY BID SET	3 11-17-14
4	SET	4 12-22-14
5	DESIGN DEVELOPMENT SET	5 12-23-14
6	NYCT SUBMISSION	6 01-29-15
7	UPDATED DOB SET	7 04-27-15
8	TWOCD	8 07-02-15
9	85% CD	9 09-03-15
10	80% PARTIAL CD ISSUE - FLOORS	10 11-24-15
11	SC-12	11 01-26-16
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13	FAA #2	
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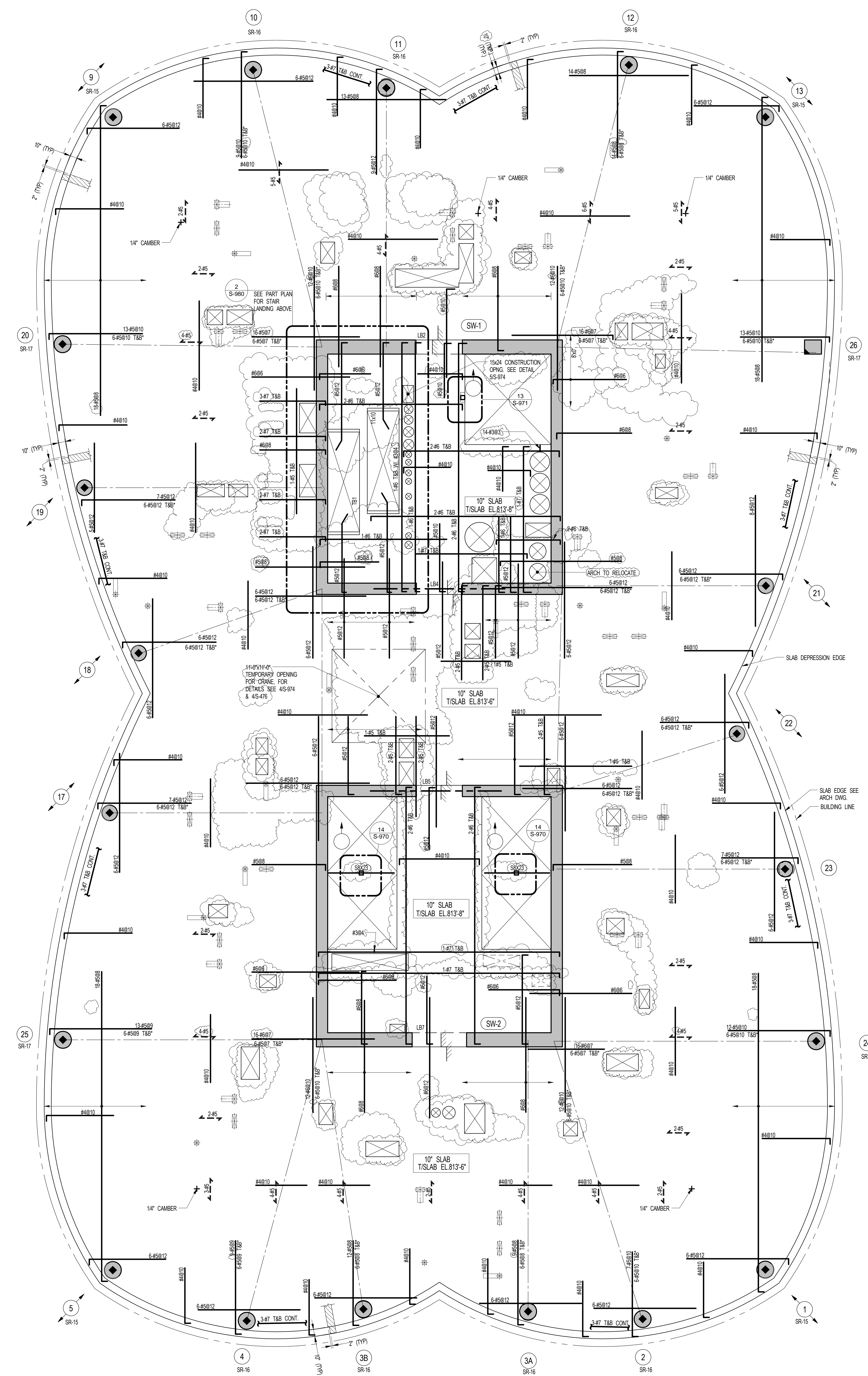
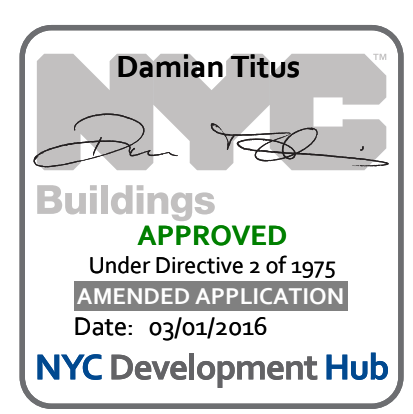
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DRAWING SCALE
As indicated

PROJECT NUMBER
2012088

TITLE
64TH FLOOR FRAMING PLAN

DRAWING NO.
S-640.01



1 64TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

NOTES:
1. TSLAB ELEVATION TO BE 813'6" U.O.N. ON PLAN THIS...
2. SLAB THICKNESS TO BE 10" U.O.N. THIS... ON PLAN.
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 CONT. E.W. FOR 10" SLAB U.O.N. ON PLAN.
4. FOR BALANCE OF NOTES SEE DRAWING S-610.

KEY:
[Symbol] INDICATES AREA OF SLEEVES REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.

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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	SUPERSTRUCTURE EARLY BID SET	11-17-14
2	DESIGN DEVELOPMENT SET	12-22-14
3	85% CD	04-27-15
4	85% CD	07-02-15
5	85% CD	11-24-15
6	PAA #2	01-28-16
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DRAWING SCALE
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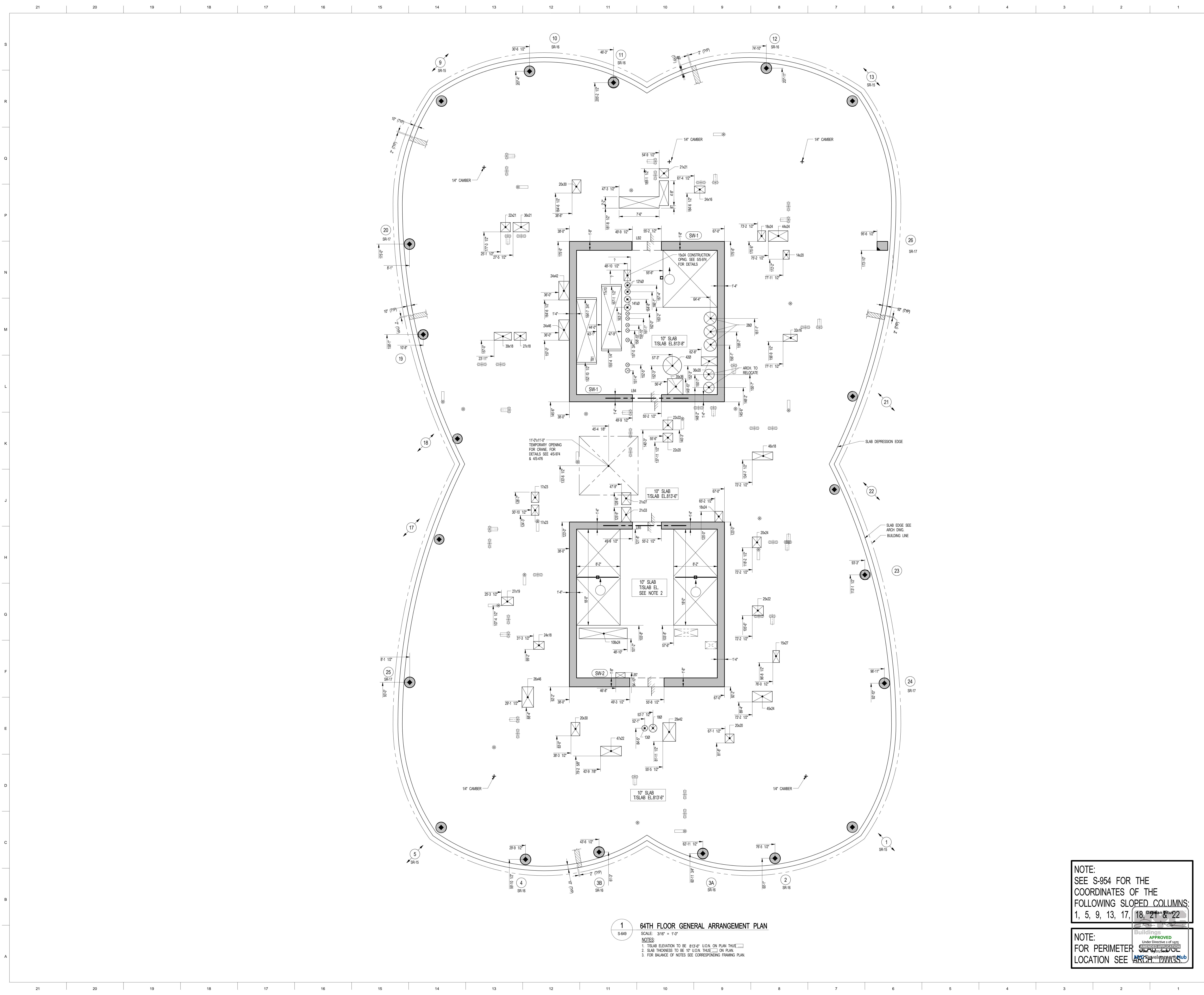
PROJECT NUMBER

TITLE
 64TH FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.
S-649.00

NOTE:
 SEE S-954 FOR THE
 COORDINATES OF THE
 FOLLOWING SLOPED COLUMNS:
 1, 5, 9, 13, 17, 18, 21, 22

NOTE:
 FOR PERIMETER
 LOCATION SEE ARCH S-649.00



1 64TH FLOOR GENERAL ARRANGEMENT PLAN
 SCALE: 3/16" = 1'-0"
 NOTES:
 1. T/SLAB ELEVATION TO BE 813'-6" U.O.N. ON PLAN THIS
 2. SLAB THICKNESS TO BE 10" U.O.N. THIS ON PLAN
 3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN

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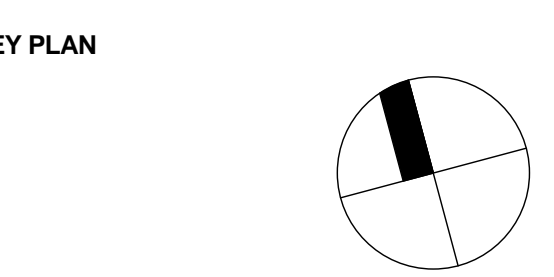
VERTICAL TRANSPORTATION:
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SHEET NOTES:



NO	ISSUE SET	REV DATE
1	70% CD	1 04-27-15
2	85% CD	2 07-02-15
3	95% CD	3 11-24-15
4	PAA #2	4 01-28-16
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DRAWING SCALE
As indicated

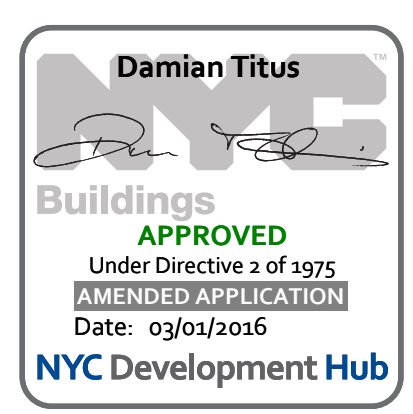
PROJECT NUMBER

TITLE
65TH FLOOR FRAMING PLAN

DRAWING NO.
S-650.00

1 65TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

- NOTES:
1. TISLAB ELEVATION TO BE 830'-6" UON ON PLAN THIS _____
 2. SLAB THICKNESS TO BE 12" UON, THISE _____ ON PLAN.
 3. BOTTOM MESH REINFORCEMENT TO BE #4@10 CONT. E/W FOR 10' SLAB UON ON PLAN.
 4. ENR REACTIONS SHOWN ARE ULTIMATE LOADS FOR IGA DRAWING OF 4/27/2015.
 5. FOR BALANCE OF NOTES SEE DRAWING S-010.



APPROVED
Under Direction of a Licensed Professional Engineer
Date: 03/01/2016
NYC Development Hub

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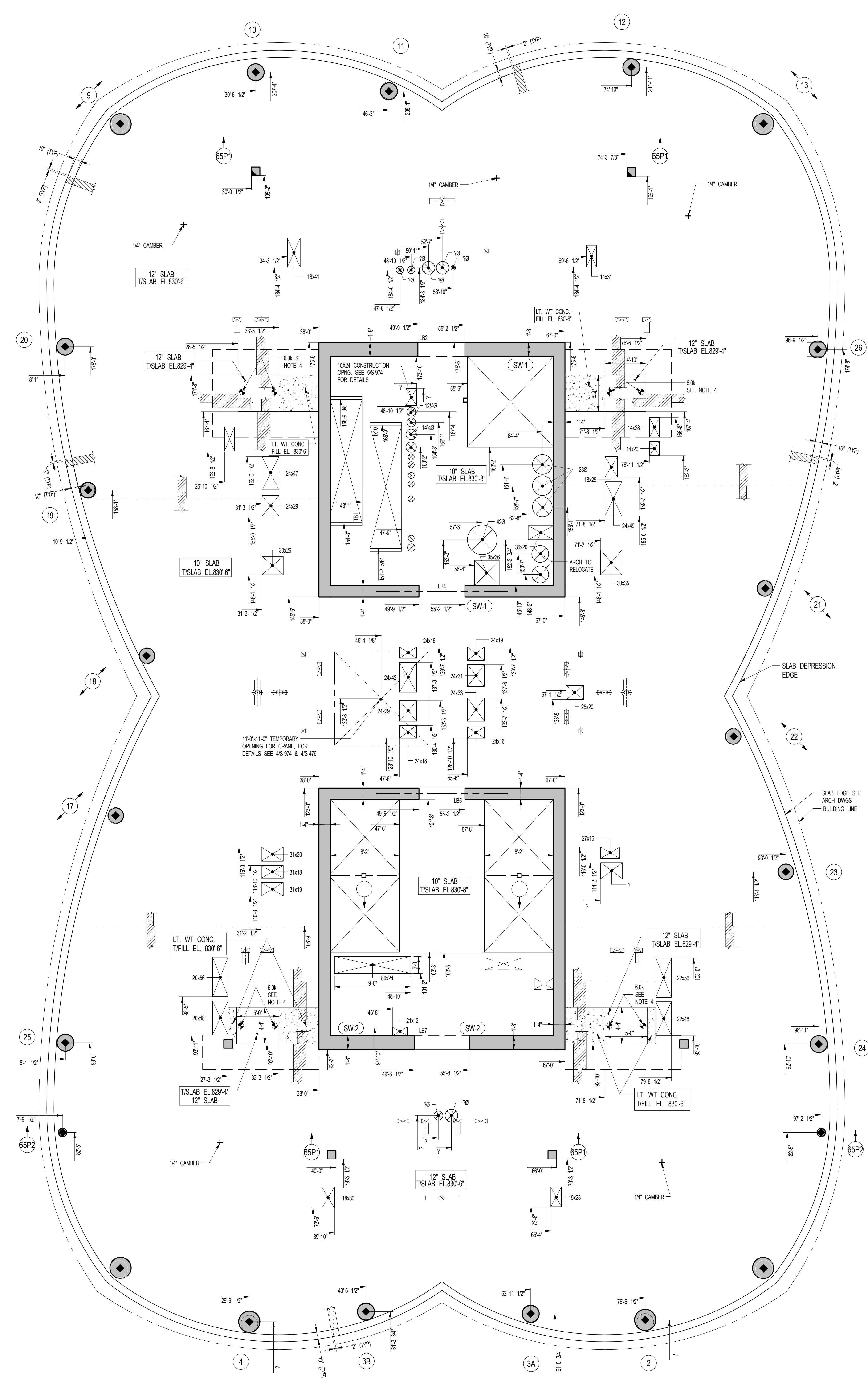
ACOUSTICAL CONSULTANTS:
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LANDSCAPE DESIGNER:
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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	70% CD	1. 04-27-15
2	85% CD	2. 07-02-15
3	90% CD	3. 11-24-15
4	PAA #2	4. 01-28-16
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1 65TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. TISLAB ELEVATION TO BE 830'-6" U.O.N. ON PLAN THUS [] ON PLAN.
 2. SLAB THICKNESS TO BE 12" U.O.N. THUS [] ON PLAN.
 3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

NOTE:
SEE S-954 FOR THE
COORDINATES OF THE
FOLLOWING SLOPED COLUMNS:
1, 5, 9, 13, 17, 18, 21, 22

NOTE:
FOR PERIMETER
LOCATION SEE ARCH DWGS.

STAMP

DATE OF PRINT:
1/26/2016 5:34:51 PM

DRAWING SCALE:
As indicated

PROJECT NUMBER:

TITLE:
65TH GENERAL ARRANGEMENT PLAN

DRAWING NO.:
S-659.00

15 HUDSON YARDS
a.k.a. 553 W 30TH STREET,
NEW YORK, NY.

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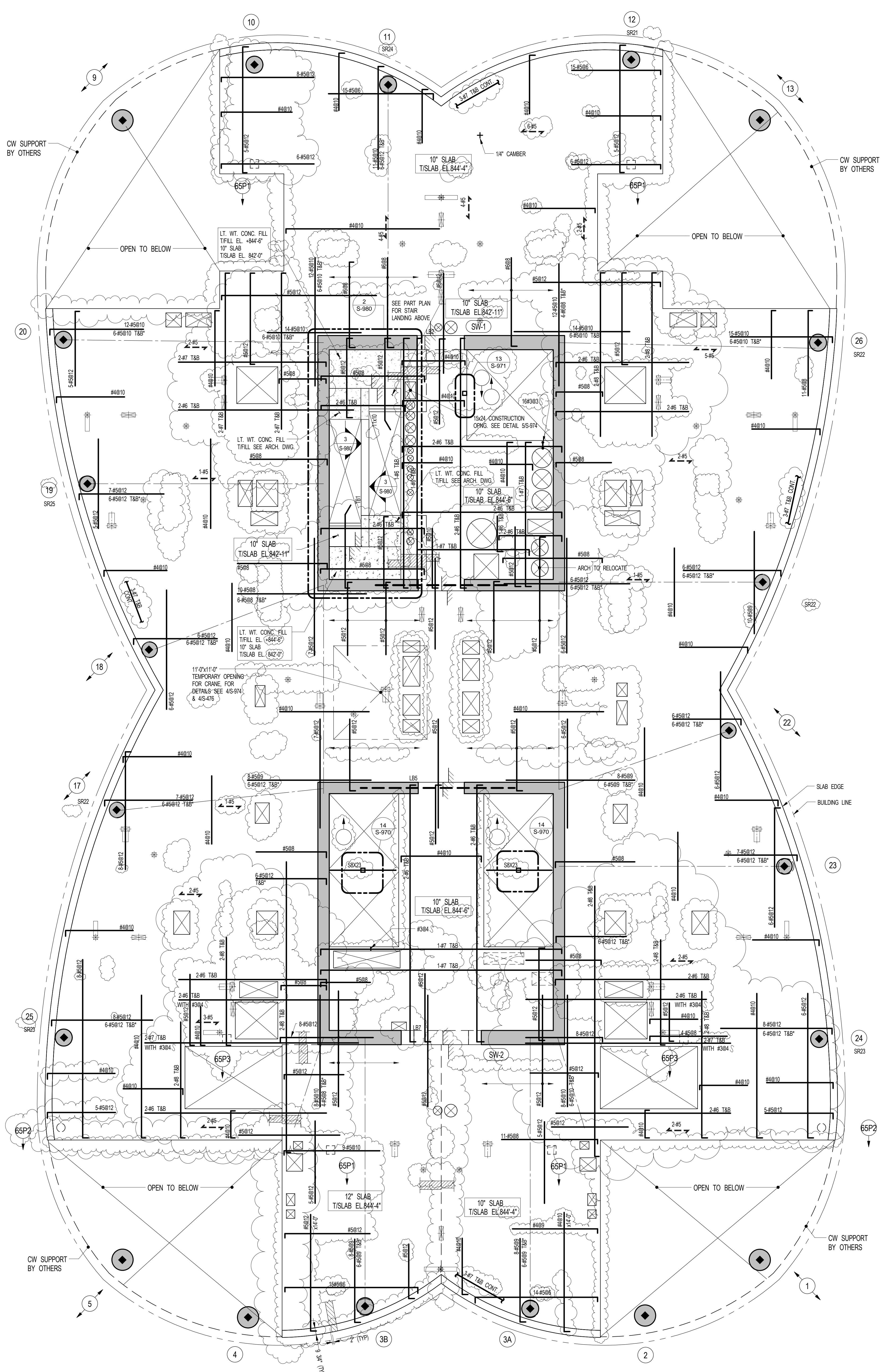
EXTERIOR WALL CONSULTANT:
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1 66TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. TISLAB ELEVATION TO BE 844'-4" U.O.N. ON PLAN THIS [] ON PLAN
 2. SLAB THICKNESS TO BE 10" U.O.N. THIS [] ON PLAN
 3. BOTTOM REINFORCEMENT TO BE: #4@12" CONC. SW. FOR 10" SLAB U.O.N. ON PLAN #5@12" CONC. E.W. FOR 12" SLAB U.O.N. ON PLAN
 4. FOR BALANCE OF NOTES SEE DRAWING SET

- KEY:**
- [Symbol] INDICATES AREA OF SLEEVES. REBAR TO BE CONTINUES AND PLACED BETWEEN SLEEVES
 - [Symbol] INDICATES ADDL. REIN. FOR LATERAL LOADS. SEE TYPICAL FLAT PLATE DETAIL
 - SRXX INDICATES COLUMN WHERE STD. RAIL SHEAR REIN. IS REQUIRED. SEE S-990 SERIES DRAWINGS FOR DETAIL.

SHEET NOTES:

NO.	ISSUE SET	REV DATE
1	FINAL SD ISSUE	11-25-13
2	REVISED SD	2-09-22-14
3	SUPERSTRUCTURE EARLY BID SET	3-11-17-14
4	SET	
5	DESIGN DEVELOPMENT SET	4-12-22-14
6	NYCT SUBMISSION	5-12-23-14
7	UPDATED DOB SET	6-01-29-15
8	TRN/CDD	7-04-27-15
9	85% CD	8-07-02-15
10	85% PARTIAL CD ISSUE - FLOORS	9-09-03-15
11	SC-12	
12	85% CD	10-11-24-15
13	FAA #2	11-01-26-16
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KEY PLAN

NO. ISSUE SET

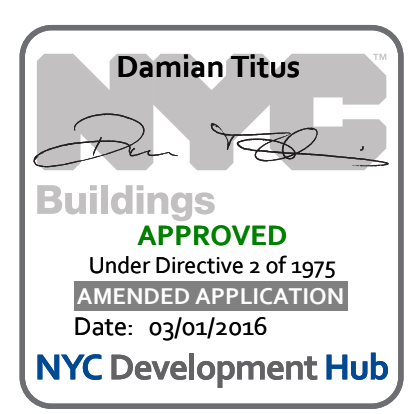
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2	REVISED SD	2-09-22-14
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5	DESIGN DEVELOPMENT SET	4-12-22-14
6	NYCT SUBMISSION	5-12-23-14
7	UPDATED DOB SET	6-01-29-15
8	TRN/CDD	7-04-27-15
9	85% CD	8-07-02-15
10	85% PARTIAL CD ISSUE - FLOORS	9-09-03-15
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12	85% CD	10-11-24-15
13	FAA #2	11-01-26-16
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DATE OF PRINT
1/26/2016 5:41:02 PM

DRAWING SCALE
As indicated

PROJECT NUMBER



TITLE
66TH FLOOR FRAMING PLAN

DRAWING NO.
S-660.01

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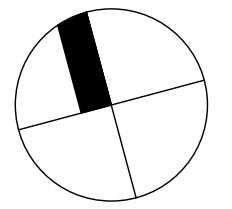
LEED CONSULTANT:
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SHEET NOTES:

KEY PLAN



NO	ISSUE SET	REV DATE
1	70% CD	1. 04-27-15
2	85% CD	2. 07-02-15
3	90% CD	3. 11-24-15
4	PAA #2	4. 01-28-16
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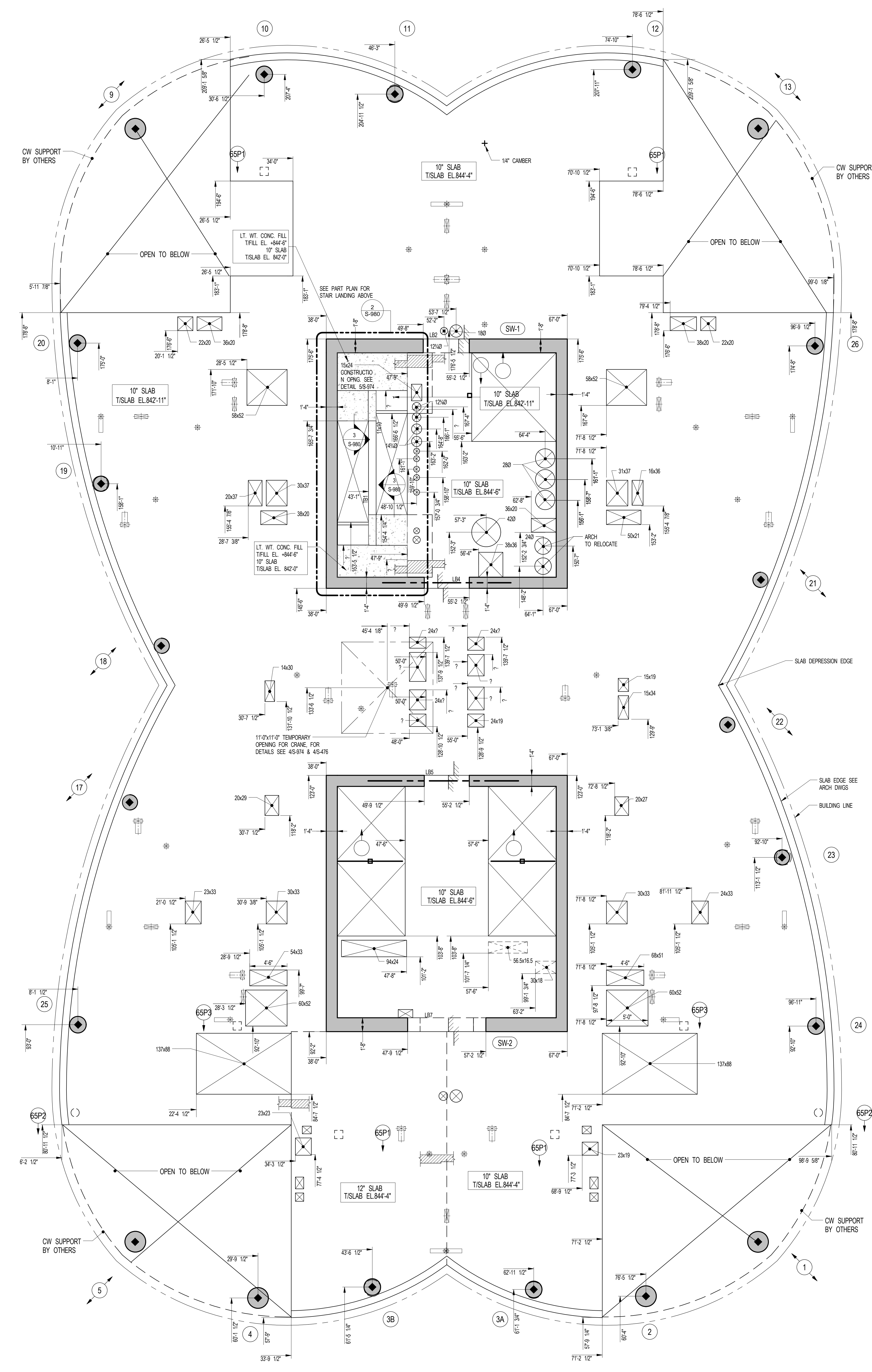
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DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
66TH FLOOR GENERAL ARRANGEMENT
PLAN

DRAWING NO.
S-669.00



1 66TH FLOOR GENERAL ARRANGEMENT PLAN
S-669
SCALE: 3/16" = 1'-0"

- NOTES:**
1. SLAB ELEVATION TO BE 844'-4" U.O.N. ON PLAN THIS [Symbol]
 2. SLAB THICKNESS TO BE 10" U.O.N. THIS [Symbol] ON PLAN.
 3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

NOTE:
SEE S-954 FOR THE
COORDINATES OF THE
FOLLOWING SLOPED COLUMNS:
1, 5, 9, 13, 17, 18, 21, 22

NOTE:
FOR PERIMETER
LOCATION SEE ARCH. DWGS.



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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	100% SD ISSUE	1 02-15-13
2	REVISED SD ISSUE	2 09-06-13
3	REVISED SD ISSUE	3 08-21-13
4	REVISED SD ISSUE	4 08-22-14
5	SUPERSTRUCTURE EARLY BID	5 11-17-14
6	SET	6 12-22-14
7	DESIGN DEVELOPMENT SET	7 12-23-14
8	NYCT SUBMISSION	8 01-20-15
9	UPDATED DOB SET	9 04-27-15
10	70% CD	10 07-02-15
11	80% CD	11 09-03-15
12	90% PARTIAL CD ISSUE - FLOORS	12 11-24-15
13	90% CD	13 01-26-16
14	PAA #2	14 01-26-16
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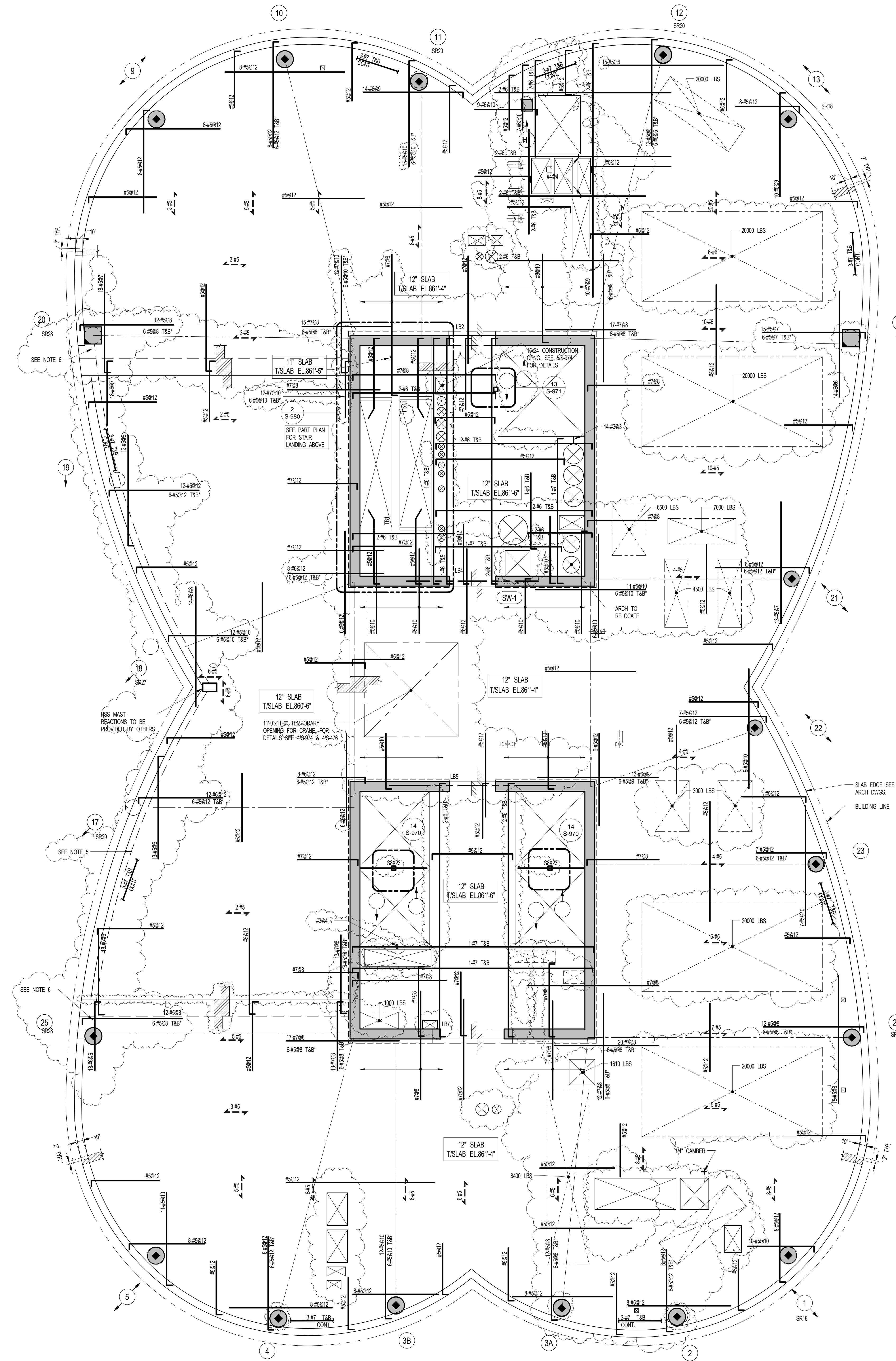
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DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
67TH FLOOR (UPPER MECH. LEVEL 1)
FRAMING PLAN

DRAWING NO.
S-670.01



1 67TH FLOOR FRAMING PLAN

SCALE: 3/16" = 1'-0"

NOTES:
1. T/S LAB ELEVATION TO BE 861'-4" U.O.N. ON PLAN THIS...
2. SLAB THICKNESS TO BE 12" U.O.N. THIS... ON PLAN.
3. BOTTOM MESH REINFORCEMENT TO BE: #5@12 CONT. E.W. FOR 12" SLAB U.O.N. ON PLAN
#5@12 CONT. E.W. FOR 11" SLAB U.O.N. ON PLAN

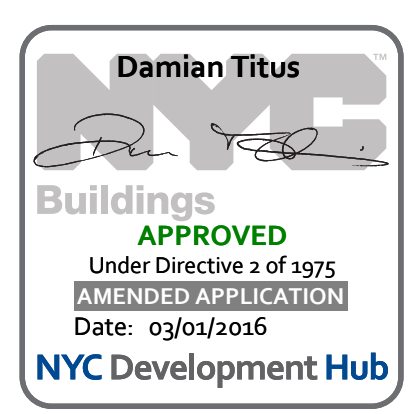
4. SLAB TO HAVE MIN. COMPRESSIVE STRENGTH: FC OF 8000psi

5. OVER EXTENT INDICATED SLAB DESIGNED TO CARRY SCREENWALL STRUCTURE ABOVE TO ROOF LEVEL. THIS IS A LOAD OF 8K @ 4' O.C.

6. LOAD IMPOSED ON STRUCTURE BY SCREENWALL STRUCTURE: ±17K PERPENDICULAR TO FACADE ±8K PARALLEL TO FACADE

7. FOR BALANCE OF NOTES SEE DRAWING S410.

KEY:
INDICATES AREA OF SLEEVES. REBAR TO BE CONTINUOUS AND PLACED BETWEEN SLEEVES.



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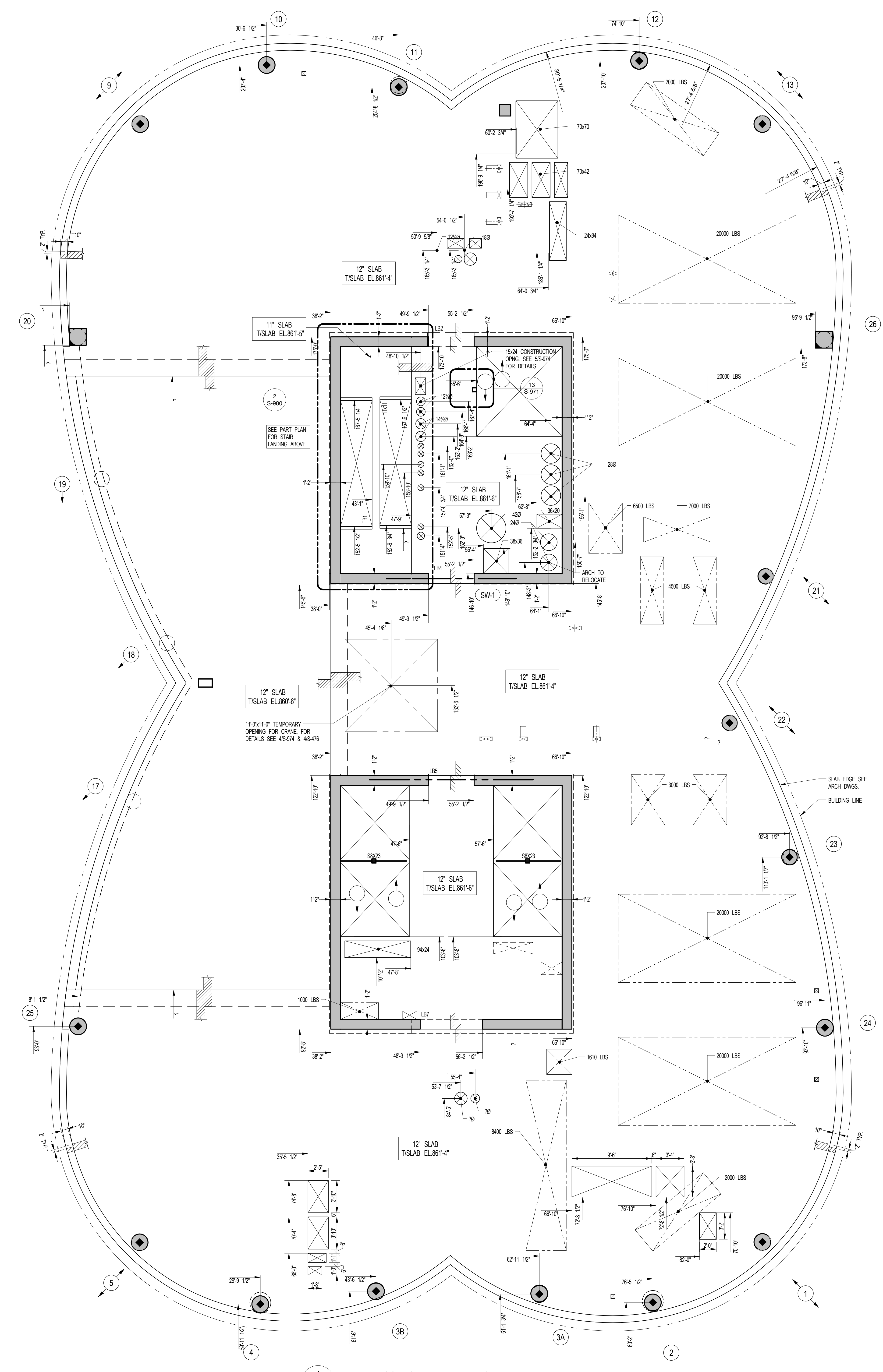
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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	70% CD	1 04-27-15
2	85% CD	2 07-02-15
3	95% CD	3 11-24-15
4	PAA #2	4 01-28-16
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1 67TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

NOTES:
1. TISLAB ELEVATION TO BE 861'-4" U.O.N. ON PLAN THIS ON PLAN.
2. SLAB THICKNESS TO BE 12" U.O.N. THIS ON PLAN.
3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

NOTE:
SEE S-954 FOR THE
COORDINATES OF THE
FOLLOWING SLOPED COLUMNS:
1, 5, 9, 13, 17, 18, 21, 22

NOTE:
FOR PERIMETER
LOCATION SEE ARCH S-679.00



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DATE OF PRINT
1/26/2016 7:05:15 PM

DRAWING SCALE
As indicated

PROJECT NUMBER
2012088

TITLE
67TH FLOOR GENERAL ARRANGEMENT
PLAN

DRAWING NO.
S-679.00

S-679.00

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LANDSCAPE DESIGNER:
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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	100% SD ISSUE	1 02-15-13
2	REVISED SD ISSUE	2 05-06-13
3	REVISED SD ISSUE	3 08-21-13
4	FINAL SD ISSUE	4 11-26-13
5	REVISED SD	5 08-22-14
6	SUPERSTRUCTURE EARLY BID	6 11-17-14
7	SET	7 12-22-14
8	DESIGN DEVELOPMENT SET	8 12-22-14
9	NYCT SUBMISSION	9 01-20-15
10	UPDATED DOB SET	10 04-27-15
11	TOWNCO	11 07-02-15
12	85% CD	12 09-03-15
13	90% PARTIAL CD ISSUE - FLOORS	13 05-12
14	95% CD	14 11-24-15
15	PPA #2	15 01-28-16
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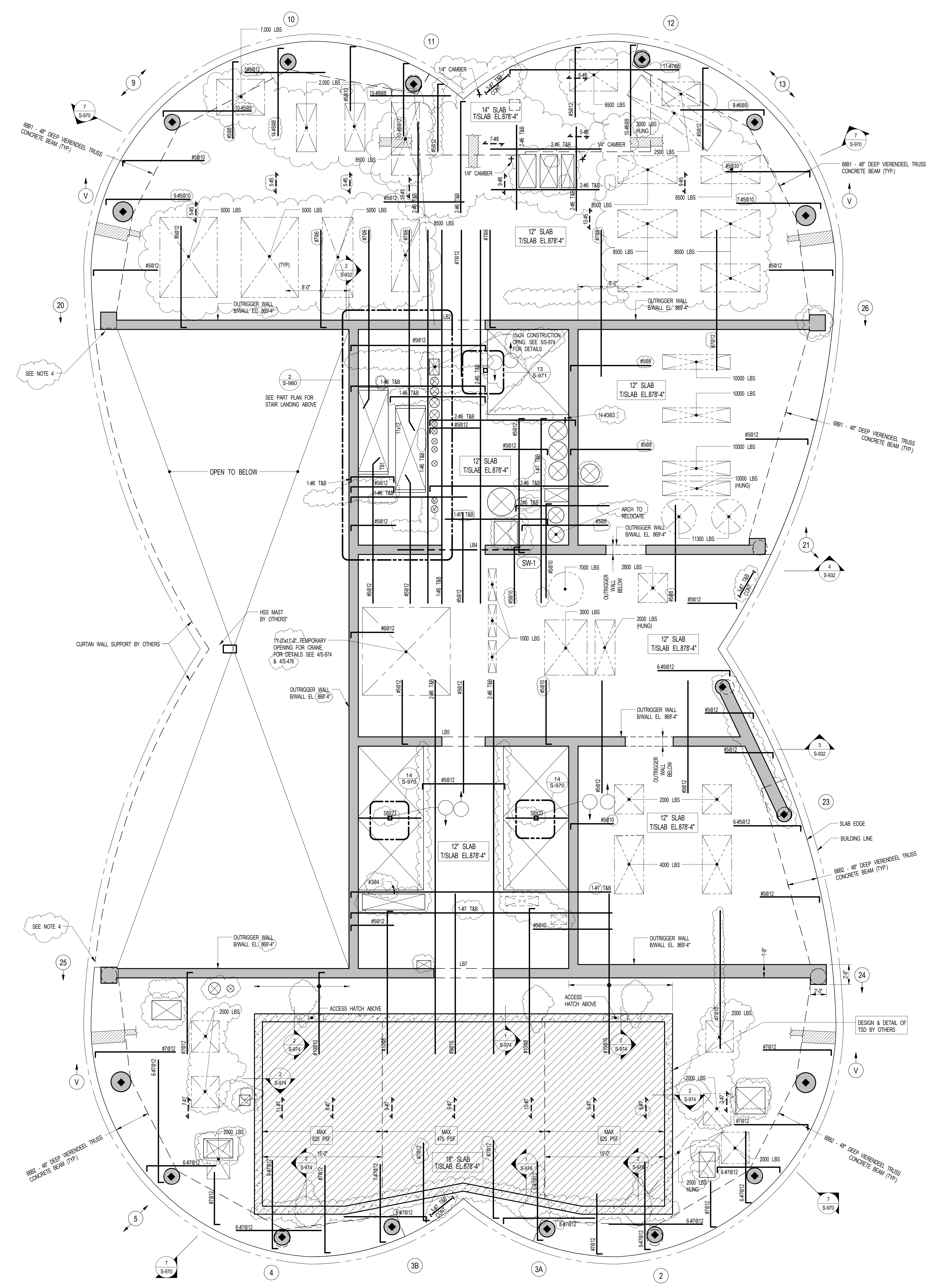
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DRAWING SCALE
As indicated

PROJECT NUMBER
2012088

TITLE
68TH FLOOR (UPPER MECH. LEVEL 2)
FRAMING PLAN

DRAWING NO.
S-680.01



1 68TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

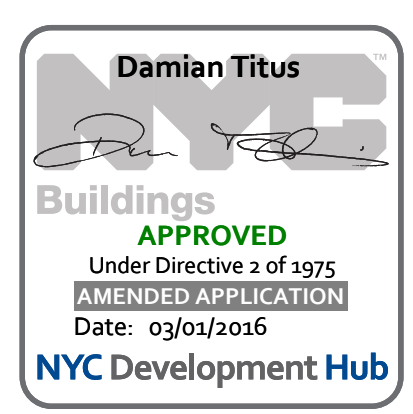
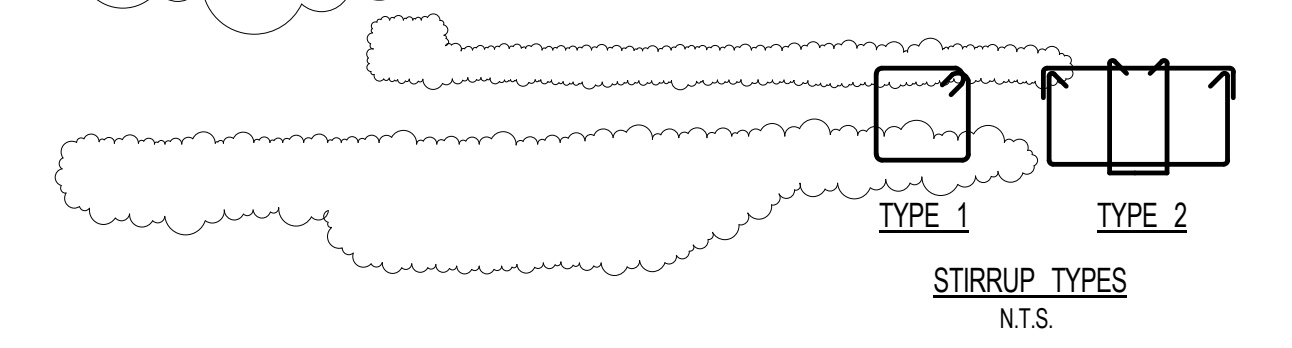
- NOTES:**
1. T/S LAB ELEVATION TO BE 878'-4" U.O.N. ON PLAN THIS [] ON PLAN.
 2. SLAB THICKNESS TO BE 12" U.O.N. THIS [] ON PLAN.
 3. MESH REINFORCEMENT TO BE []
 4. LOAD IMPOSED ON STRUCTURE BY SCREENWALL STRUCTURE [] 20K PERPENDICULAR TO FACADE []
 5. COLUMN REIN. SHOWN ON THIS DRAWING SHALL BE TENSION SPICED AND TENSION DEVELOPED REIN. SHALL BE MECHANICALLY SPICED AS REQUIRED.
 6. FOR BALANCE OF NOTES SEE DRAWING S-610.

- KEY:**
- [] INDICATES AREA OF CONDUIT SLEEVES REBAR TO BE PLACED BETWEEN SERVICES
 - [] INDICATES 3RD VERENDIEEL TRUSS MEMBER REIN. WITH 2#11 VERT. FOR T.E. SIZE & SPACING SEE TYP. COLL. DETAIL. SEE NOTE 5
 - [] INDICATES AREA OF BLOSH DAMPER

68TH FL. BM SCHEDULE

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT		STIRRUPS		REMARKS
		BOTTOM	TOP	TYPE	SIZE	
68B1	VARIABLES	18#11 (3 LAYERS)	18#11 (3 LAYERS)	1	#5	6-4# @ E.F. SKIN REINFORCEMENT
68B2	VARIABLES	15#11 (3 LAYERS)	15#11 (3 LAYERS)	1	#5	6-4# @ E.F. SKIN REINFORCEMENT

NOTES:
R FOR BEAMS IS 8000 PSI



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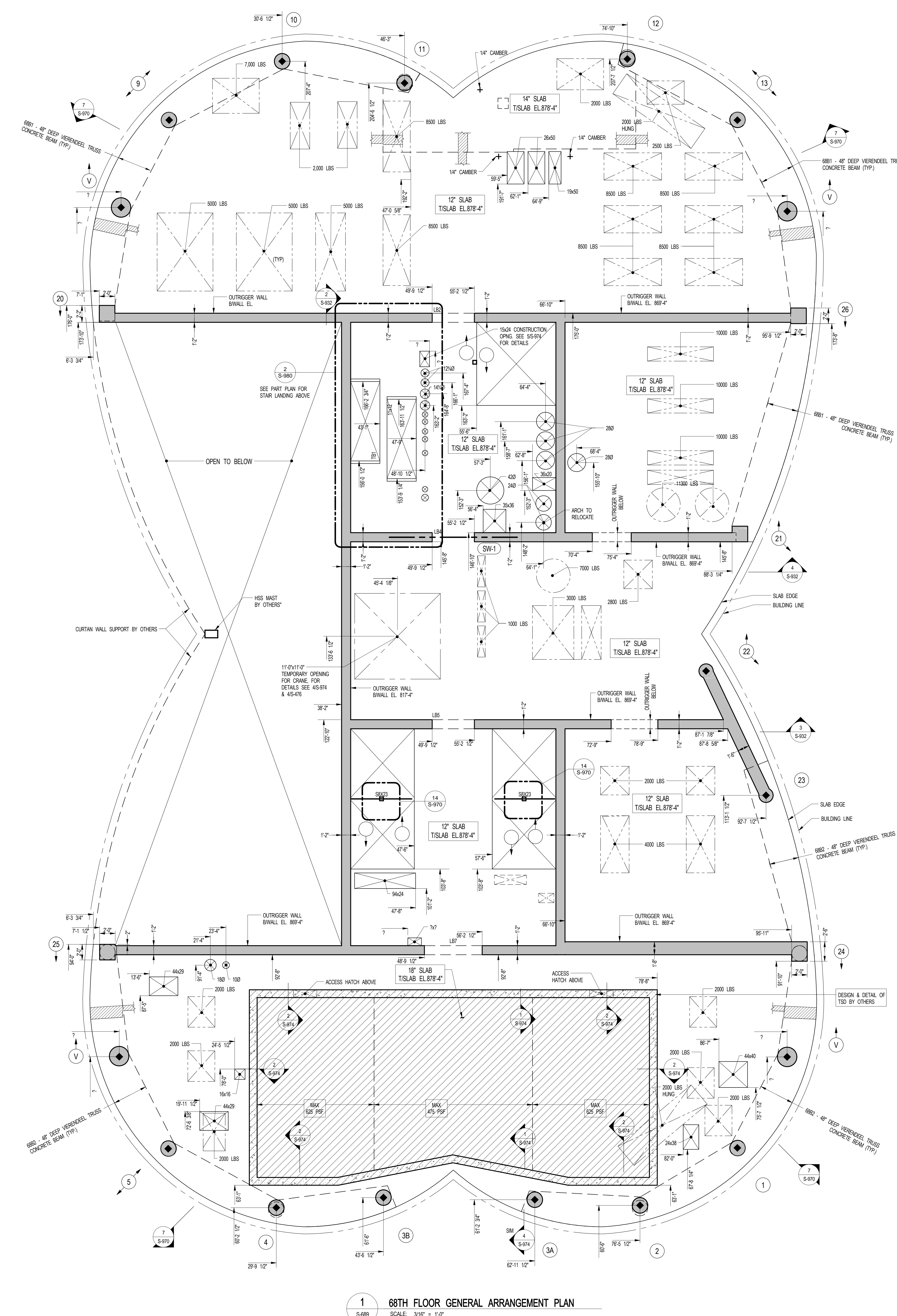
EXTERIOR WALL CONSULTANT:
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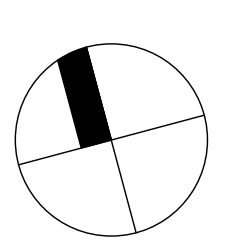
1 68TH FLOOR GENERAL ARRANGEMENT PLAN
S-689 SCALE: 3/16" = 1'-0"

NOTES:
1. TISLAB ELEVATION TO BE 878'-4" U.O.N. ON PLAN THUS []
2. SLAB THICKNESS TO BE 12" U.O.N. THUS [] ON PLAN.
3. FOR BALANCE OF NOTES SEE CORRESPONDING FINING PLAN.

NOTE:
SEE S-954 FOR THE
COORDINATES OF THE
FOLLOWING SLOPED COLUMNS:
1, 5, 9, 13, 17, 18, 21, 22

NOTE:
FOR PERIMETER
LOCATION SEE ARCH S-689.00

KEY PLAN



NO	ISSUE SET	REV DATE
1	70% CD	1. 04-27-15
2	85% CD	2. 07-02-15
3	95% CD	3. 11-24-15
4	PAA #2	4. 01-28-16
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DATE OF PRINT:
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DRAWING SCALE:
As indicated

PROJECT NUMBER:
2012088

TITLE:
68TH FLOOR (UPPER MECH. LEVEL 2)
GENERAL ARRANGEMENT PLAN

DRAWING NO.:
S-689.00

S-689.00

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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	100% SD ISSUE	1 02-15-13
2	REVISED SD ISSUE	2 05-06-13
3	REVISED SD ISSUE	3 08-21-13
4	FINAL SD ISSUE	4 11-26-13
5	REVISED SD	5 08-22-14
6	SUPERSTRUCTURE EARLY BID	6 11-17-14
7	SET	7 12-22-14
8	DESIGN DEVELOPMENT SET	8 12-23-14
9	NYCT SUBMISSION	9 01-20-15
10	UPDATED DOB SET	10 04-27-15
11	TOWNO	11 07-02-15
12	85% CD	12 09-03-15
13	80% PARTIAL CD ISSUE - FLOORS	13 05-12-16
14	85% CD	14 11-24-15
15	FPA #2	15 01-28-16
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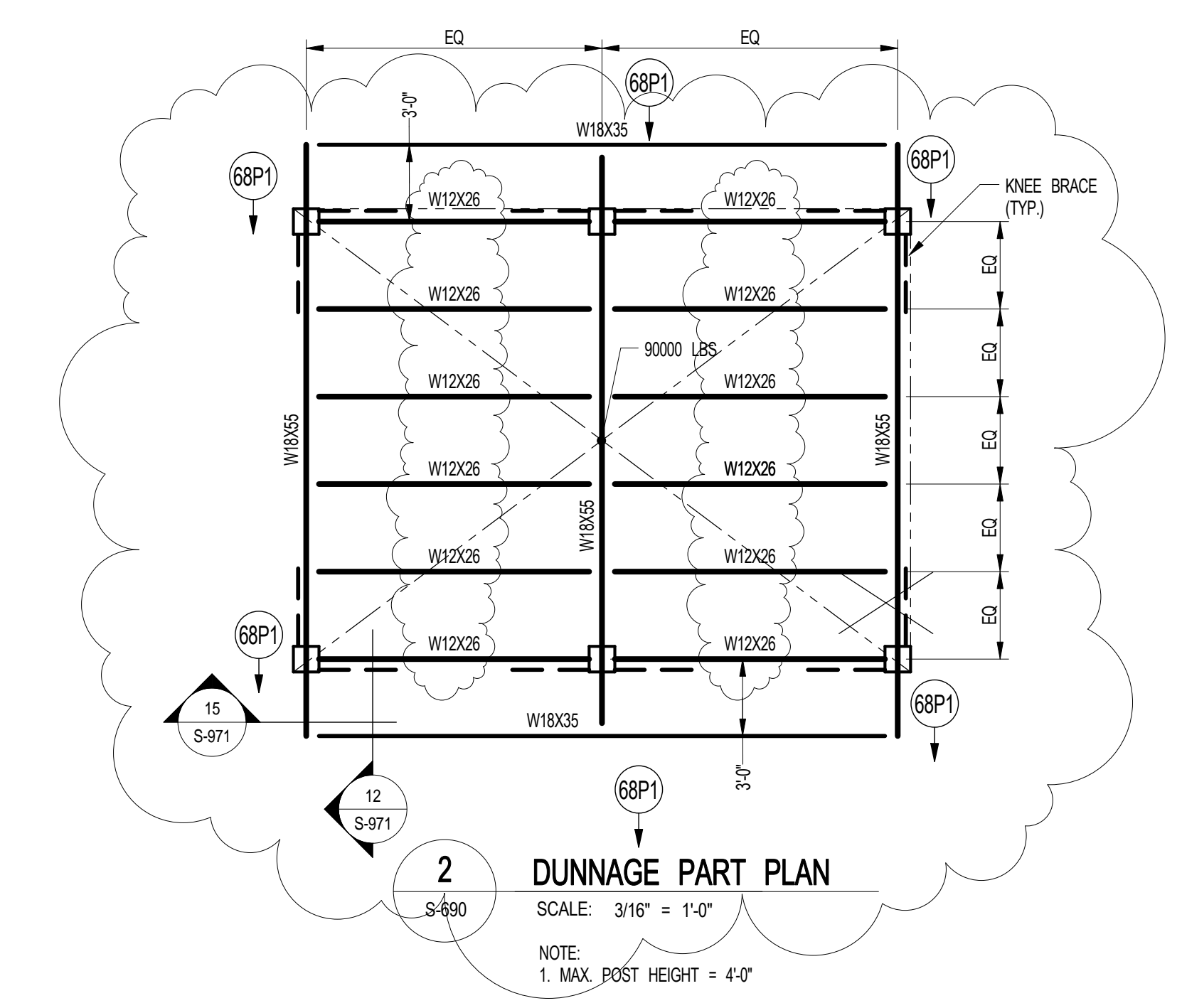
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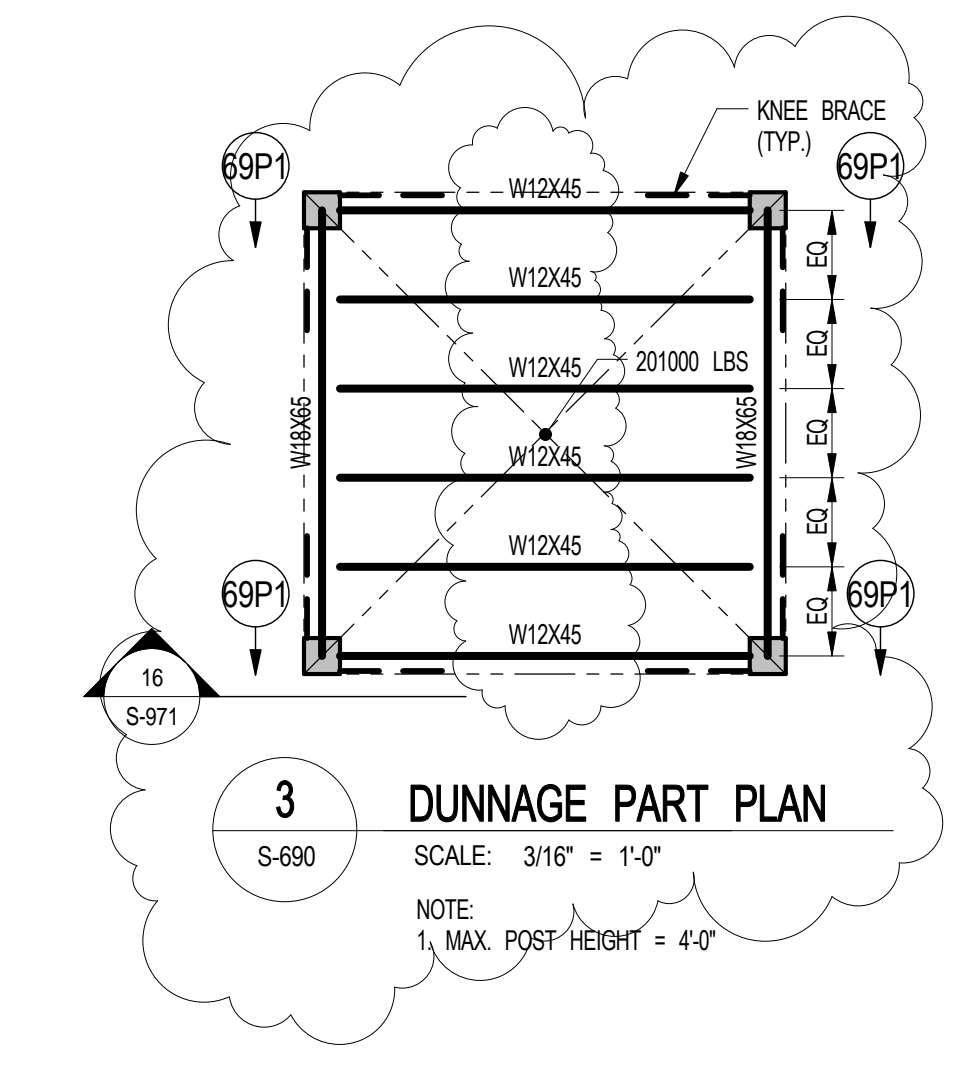
PROJECT NUMBER
201268

TITLE
69TH FLOOR (UPPER MECH. LEVEL 3)
FRAMING PLAN

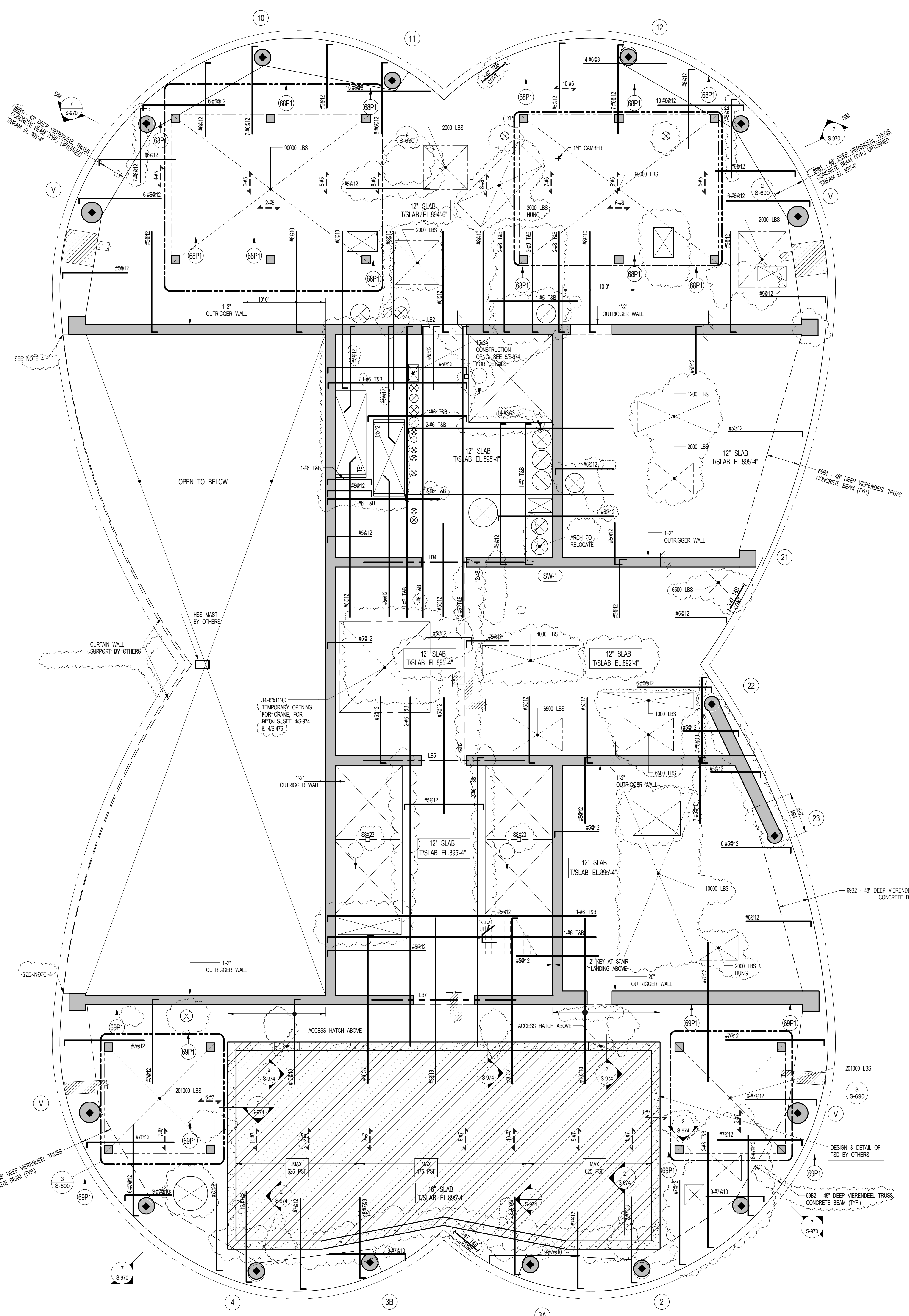
DRAWING NO.
S-690.01



2 DUNNAGE PART PLAN
SCALE: 3/16" = 1'-0"
NOTE:
1. MAX. POST HEIGHT = 4'-0"



3 DUNNAGE PART PLAN
SCALE: 3/16" = 1'-0"
NOTE:
1. MAX. POST HEIGHT = 4'-0"



1 69TH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

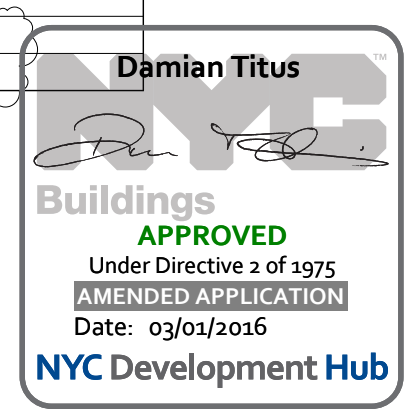
NOTES:
1. T/S LAB ELEVATION TO BE 895'-4" U.O.N. ON PLAN THIS...
2. SLAB THICKNESS TO BE 12" U.O.N. ON PLAN...
3. MESH REINFORCEMENT TO BE #5@12" TOP & BOTTOM CONT. E/W FOR 12" SLAB U.O.N. ON PLAN...
4. LOAD IMPOSED ON STRUCTURE BY SCREENWALL STRUCTURE...
5. COLUMN REINF. SHOWN ON THIS DRAWING SHALL BE TENSION SPLICED AND TENSION DEVELOPED...
6. FOR BALANCE OF NOTES SEE DRAWING S-910.

KEY:
INDICATES AREA OF CONDUIT SLEEVES. REBAR TO BE PLACED BETWEEN SLEEVES.
INDICATES 3/4\"/>

69TH FL. BM SCHEDULE						
BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT		STIRRUPS		
		BOTTOM CONTINUOUS	TOP CONTINUOUS	W/ TYP	SIZE	SPACING
69B1	VARIABLES	20#11 (3 LAYERS)	20#11 (3 LAYERS)	2	#5	@5
69B2	12x48	18#11 (3 LAYERS)	18#11 (3 LAYERS)	2	#5	@5

NOTES:
1. FC FOR BEAMS IS 8000 PSI.

REMARKS:
6-45 @ E.F. SKIN REINFORCEMENT
6-45 @ E.F. SKIN REINFORCEMENT



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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	70% CD	1. 04-27-15
2	85% CD	2. 07-02-15
3	95% CD	3. 11-24-15
4	PAA #2	4. 01-28-16
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STAMP



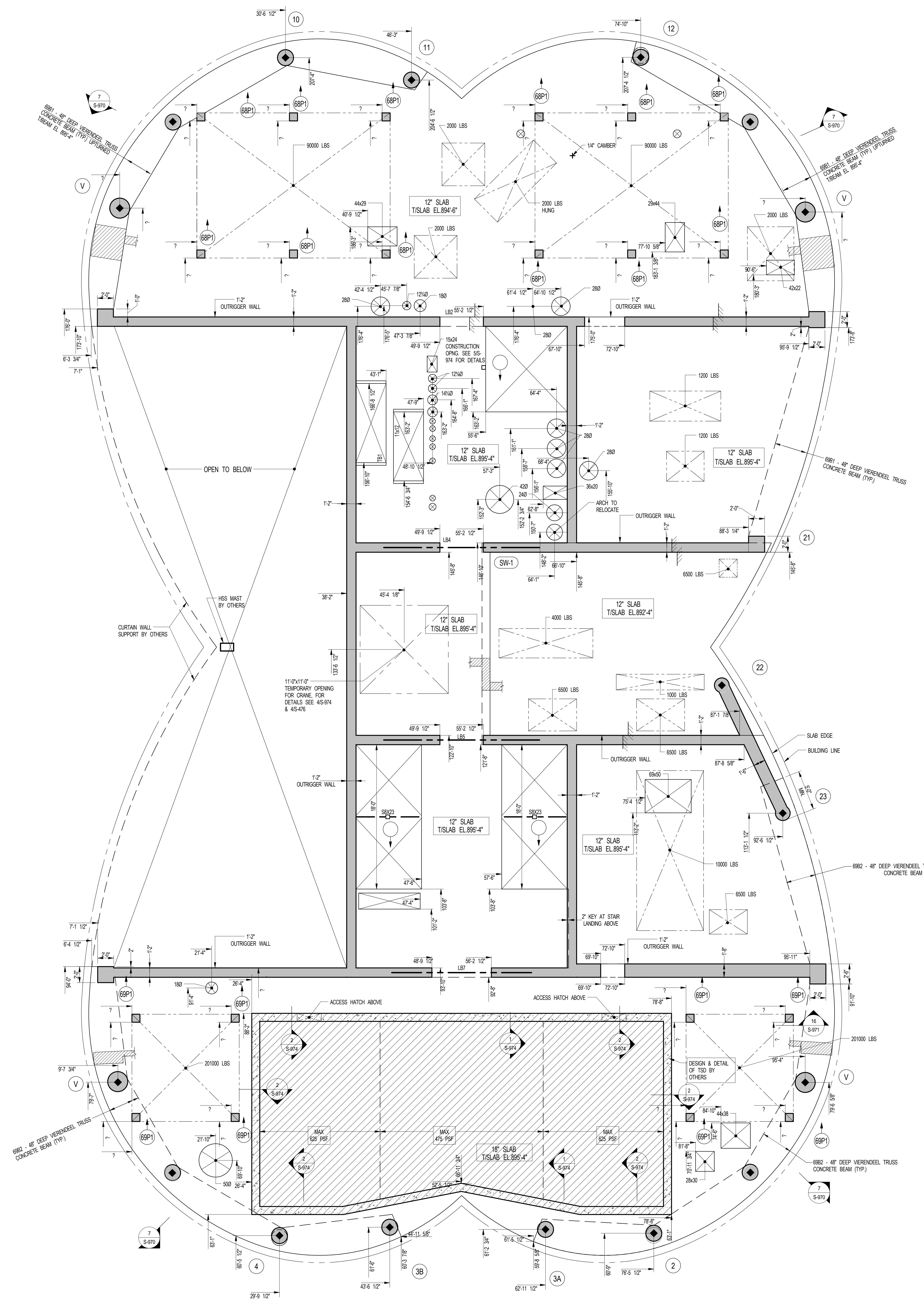
DATE OF PRINT:
1/26/2016 7:05:25 PM

DRAWING SCALE:
3/16" = 1'-0"

PROJECT NUMBER:
2012058

TITLE:
69TH FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.:
S-699.00

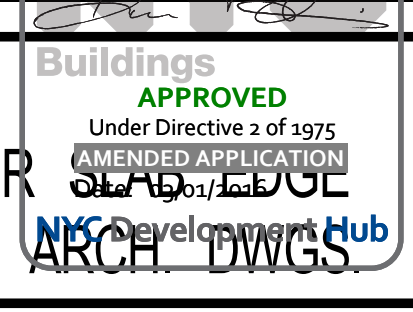


1 69TH FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. SLAB ELEVATION TO BE 88'-0" U/L.O.A. ON PLAN THIS []
 2. SLAB THICKNESS TO BE 12" U/L.O.A. THIS [] ON PLAN.
 3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

NOTE:
SEE S-954 FOR THE
COORDINATES OF THE
FOLLOWING SLOPED COLUMNS:
1, 5, 9, 13, 17, 18, 21, 22

NOTE:
FOR PERIMETER
LOCATION SEE ARCH DWGS.



S-699.00

OWNER:
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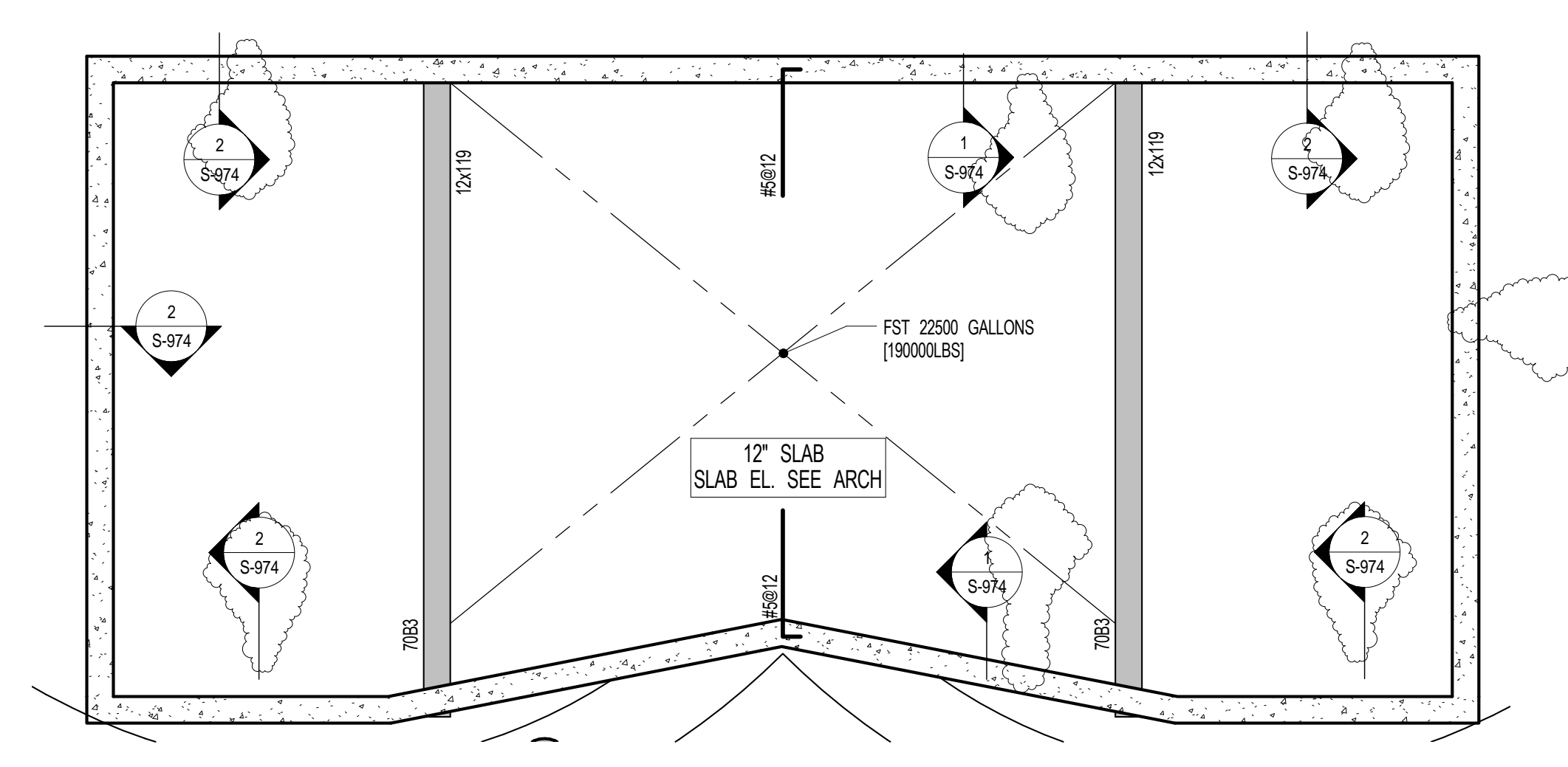
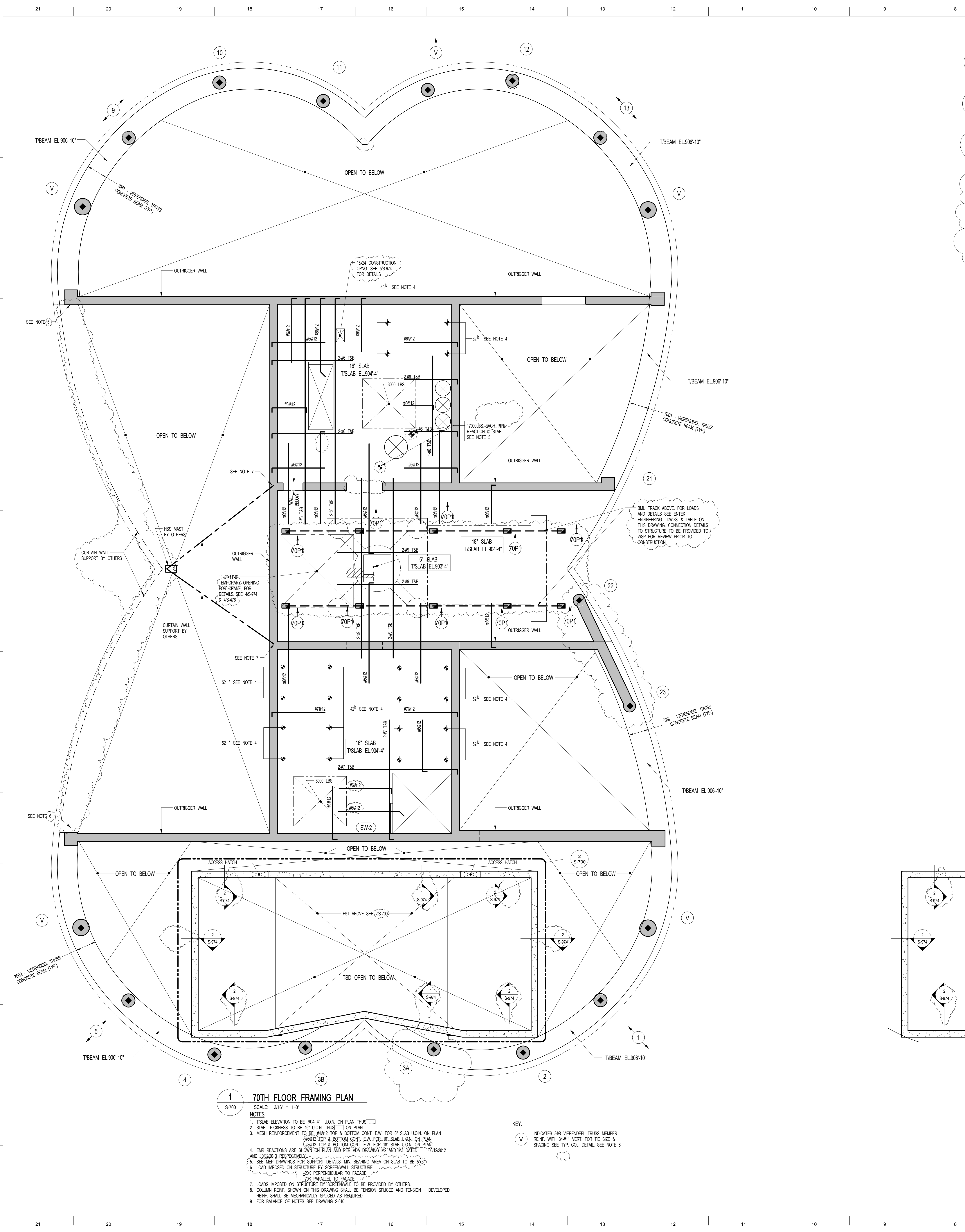
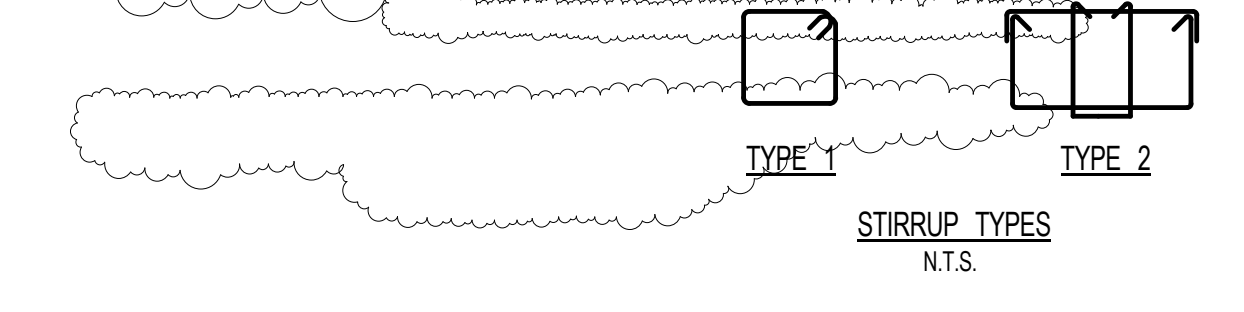
LANDSCAPE DESIGNER:
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		FAÇADE MAINTENANCE EQUIPMENT (BMU) REACTIONS (LBS.)				A max = 82' 0" D = 12'-0" A min = 25' 0" E = 12'-0" B = 10' 0" F = 12'-0" C = 12' 0" G = 12'-0"			
LOADING CONDITIONS	FRONT WHEELS	VERTICAL LOADS		HORIZONTAL LOADS		CASE I	CASE II	CASE III	CASE IV
		FRONT WHEELS	REAR WHEELS	FRONT WHEELS	REAR WHEELS				
CASE I 1. 2.5 SHOCK FULL LOAD REAR WIND 50MPH (80KMPH) FULL LOAD HALF WIND NO SHOCK	FR1	83,210 ↓	83,210 ↓	(2,970) ↑	(2,970) ↑	← 8,321	← 8,321	← 8,321	← 8,321
	FR2	83,210 ↓	83,210 ↓	(2,970) ↑	(2,970) ↑				
	PR1	(37,250) ↑	(37,250) ↑						
CASE II 1. 2.5 SHOCK FULL LOAD REAR WIND 50MPH (80KMPH) FULL LOAD HALF WIND NO SHOCK	FR1	83,210 ↓	83,210 ↓	(2,970) ↑	(2,970) ↑	← 8,321	← 8,321	← 8,321	← 8,321
	FR2	83,210 ↓	83,210 ↓	(2,970) ↑	(2,970) ↑				
	PR2	(37,250) ↑	(37,250) ↑						
CASE III 1. 2.5 SHOCK FULL LOAD REAR WIND 50MPH (80KMPH) FULL LOAD HALF WIND NO SHOCK	FR1	101,060 ↓	40,120 ↓	40,120 ↓	(20,820) ↑	← 8,321	← 8,321	← 8,321	← 8,321
	FR2	101,060 ↓	40,120 ↓	40,120 ↓	(20,820) ↑				
	PR1	(70,440) ↑	42,870 ↓	42,870 ↓	156,170 ↓				
CASE IV 1. 2.5 SHOCK FULL LOAD REAR WIND 50MPH (80KMPH) FULL LOAD HALF WIND NO SHOCK	FR1	4,380 ↓	38,740 ↓	38,740 ↓	73,110 ↓	← 8,321	← 8,321	← 8,321	← 8,321
	FR2	4,380 ↓	38,740 ↓	38,740 ↓	73,110 ↓				
	PR1	(70,440) ↑	42,870 ↓	42,870 ↓	156,170 ↓				
CARRIAGE WEIGHT		149470.00 LBS.		FRONT WHEELS		TWO			
PLATFORM WEIGHT		3000.00 LBS.		REAR WHEELS		TWO			
PLATFORM CAPACITY		1000.00 LBS.							
MATERIAL HANDLING WINCH		1500.00 LBS.							
TOTAL		154970.00 LBS.							
PROJECT:		Hudson Yards Tower D							
DATE:		October 20, 2013							
REVISION:		R2		Feb 25, 2015					
BY:		LB							

NOTES:
1. TABLE INDICATED ABOVE IS EXTRACTED FROM ENTER ENGINEERING, LLC DRAWING DATED FEB 24, 2015.
2. THE LOADS ARE BASED ON 12" TRACK CENTERS AND WHEELS SPACED 17' APART.

BEAM MARK	SIZE (WxD) (IN)	REINFORCEMENT		STIRRUPS		REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TYPE	SPACING	
70B1	30x30	15-#11(3 LAYERS)	15-#11(3 LAYERS)	1	WS	6-4486 E.F. SKIN REIN.
70B2	30x30	15-#11(3 LAYERS)	15-#11(3 LAYERS)	1	WS	6-4486 E.F. SKIN REIN.
70B3	12x119	6-#9 (2 LAYERS)	6-#9 (2 LAYERS)	WS	06	#5010 SKIN REIN.

NOTES:
1. WHERE BARS ARE DETAILED IN MULTIPLE LAYERS, THE QUANTITY OF BARS INDICATED IS THE TOTAL NUMBER OF BARS NOT THE NUMBER OF BARS IN EACH LAYER.
2. 1% FOR BEAMS IS MAX. PS.



SHEET NOTES:

KEY PLAN

NO.	ISSUE SET	REV DATE
1	FINAL SD ISSUE	11-28-13
2	REVISED SD	08-22-14
3	SUPERSTRUCTURE EARLY BID SET	11-17-14
4	SET	
5	DESIGN DEVELOPMENT SET	12-22-14
6	NYCT SUBMISSION	12-23-14
7	UPDATED DOB SET	01-29-15
8	TRACED	04-27-15
9	85% CD	07-02-15
10	90% CD	11-24-15
11	100% CD	01-26-16



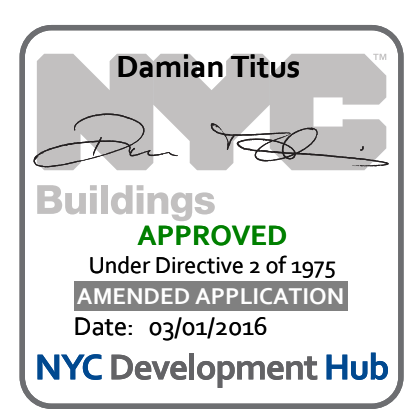
DATE OF PRINT:
1/26/2016 7:11:22 PM

DRAWING SCALE:
As indicated

PROJECT NUMBER:
2012088

TITLE:
70TH FLOOR (EMR AND BMU) FRAMING PLAN

DRAWING NO.:
S-700.01



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LANDSCAPE DESIGNER:
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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	70P/CD	1 04-27-15
2	85% CD	2 07-02-15
3	85% CD	3 11-24-15
4	PAA #2	4 01-28-16
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STAMP



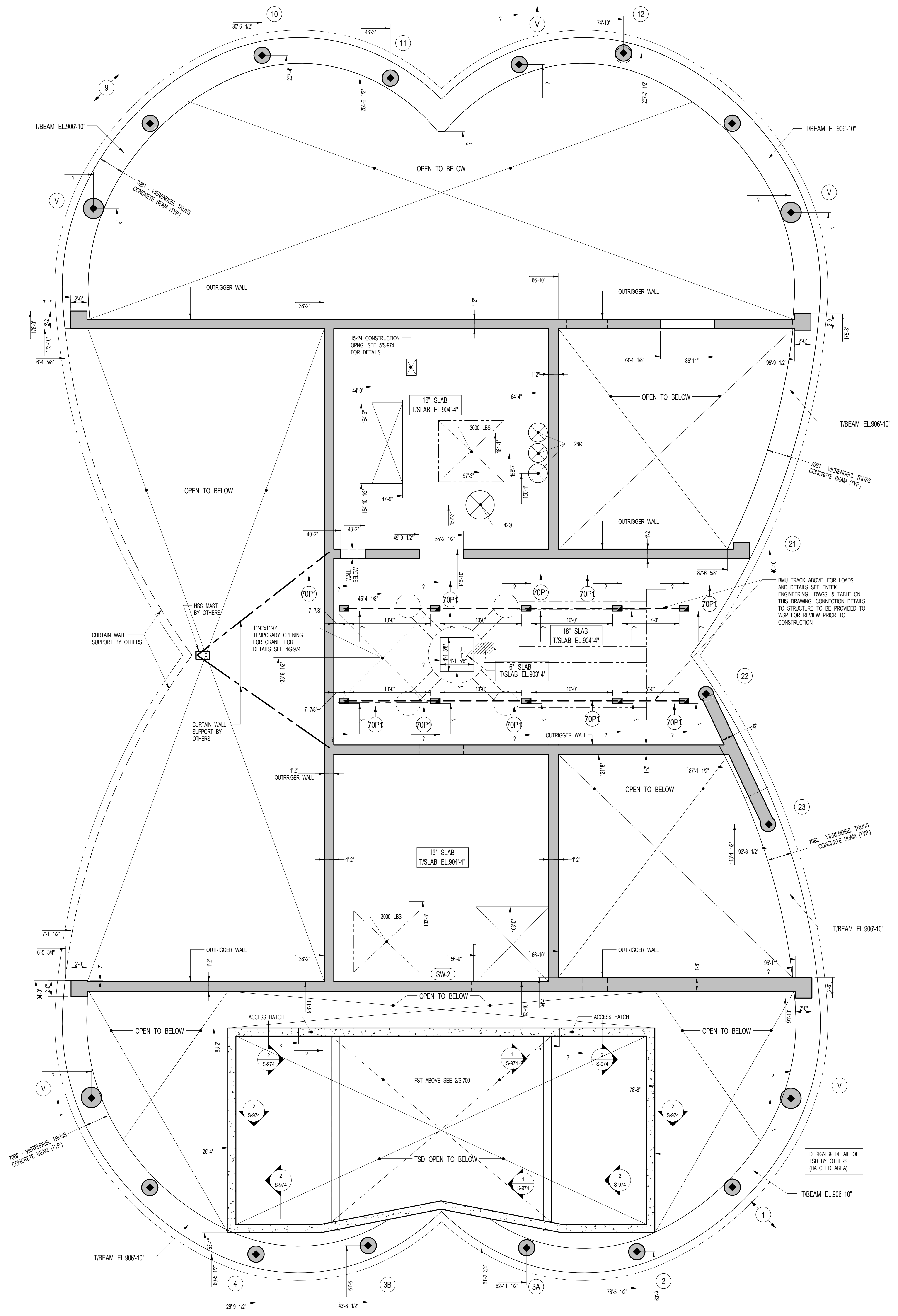
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DRAWING SCALE
As indicated

PROJECT NUMBER
2012088

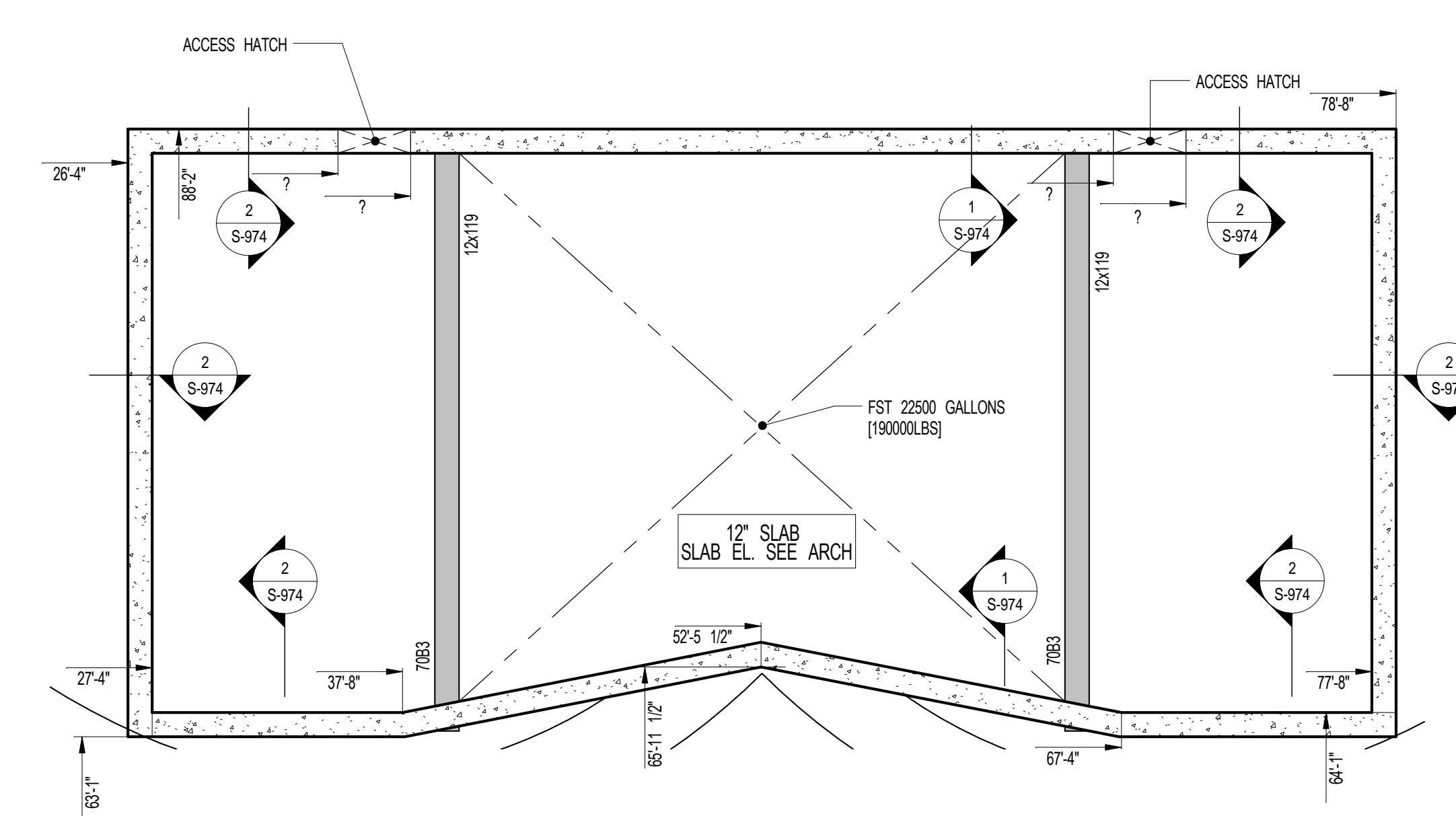
TITLE
70TH FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.
S-709.00



1 70TH FLOOR GENERAL ARRANGEMENT PLAN
S-709
SCALE: 3/16" = 1'-0"

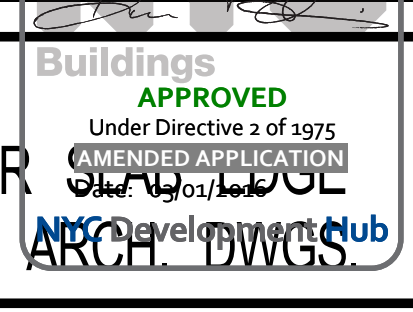
NOTES:
1. TISLAB ELEVATION TO BE 904'-4" U.O.N. ON PLAN THIS
2. SLAB THICKNESS TO BE 16" U.O.N. TRUSS ON PLAN.
3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.



2 PART GENERAL ARRANGEMENT @ FIRE SUPPRESSION TANK (FST)
S-709
SCALE: 3/16" = 1'-0"

NOTE:
SEE S-954 FOR THE
COORDINATES OF THE
FOLLOWING SLOPED COLUMNS:
1, 5, 9, 13, 17, 18, 21, 22

NOTE:
FOR PERIMETER
LOCATION SEE ARCH 70WGS



S-709.00

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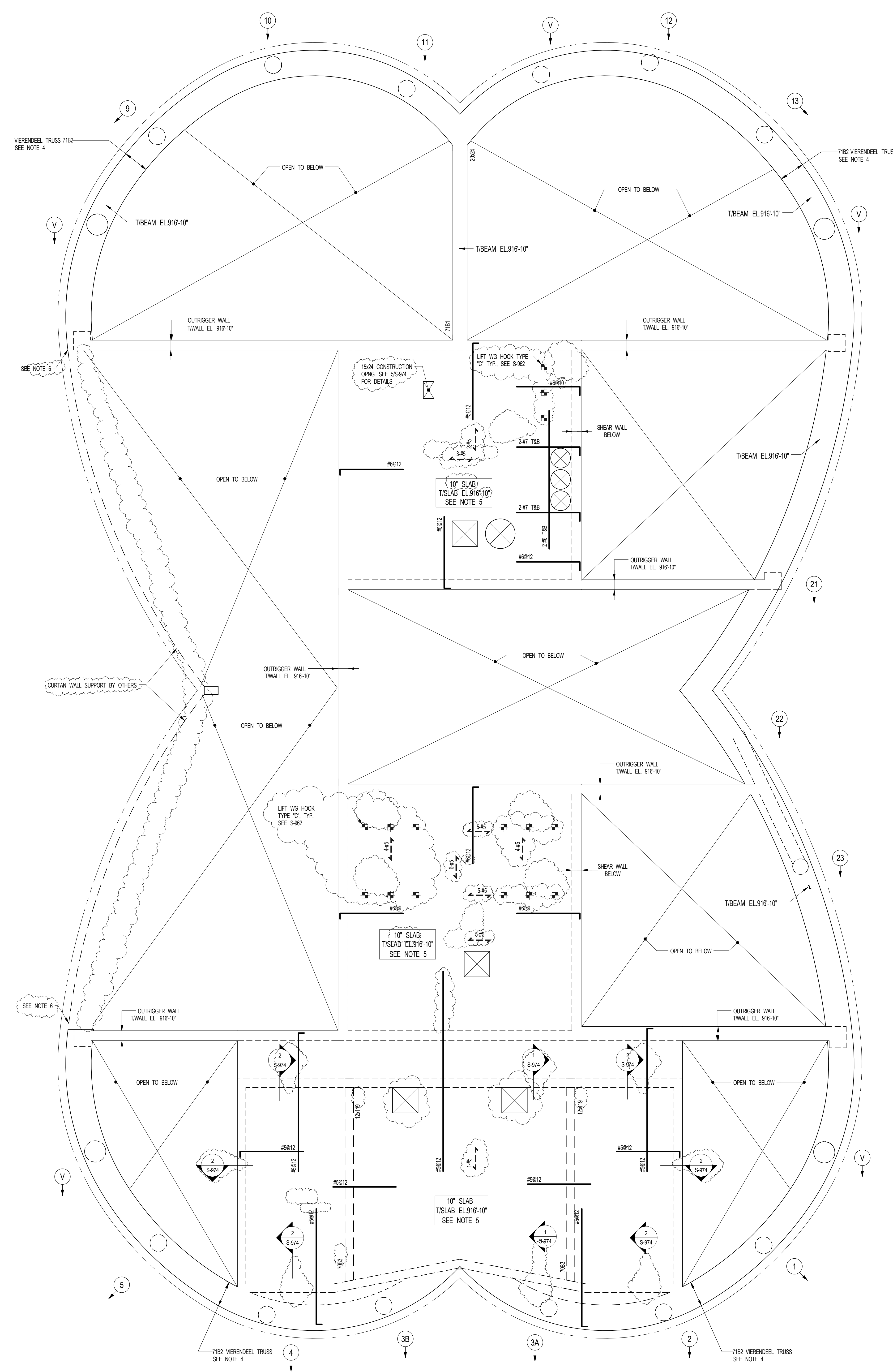
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1 BULKHEAD ROOF (71ST) FRAMING PLAN
S-710
SCALE: 3/16" = 1'-0"

NOTES:
1. SLAB ELEVATION TO BE 916'-10" U.O.N. ON PLAN THIS: [Symbol]
2. SLAB THICKNESS TO BE 10" U.O.N. THIS: [Symbol] ON PLAN
3. REINFORCEMENT TO BE A810 TOP & BOTTOM CONT. E.W. FOR 10" SLAB U.O.N. ON PLAN.
4. VERANDEEL BEAM INDICATED DESIGNED TO ACCOMMODATE CONSTRUCTION LOADING OF 1.5 KLF
5. SLABS INDICATED DESIGNED TO WITHSTAND CONSTRUCTION LOADING OF 300 PSF
6. LOAD IMPOSED ON STRUCTURE BY SCREENWALL STRUCTURE
+10k PERPENDICULAR TO FACADE
+30k PARALLEL TO FACADE
7. FOR BALANCE OF NOTES, SEE DRAWING S-610.

71ST FL. BM SCHEDULE

BEAM MARK	SIZE (HxW) (IN.)	REINFORCEMENT		STIRRUPS		REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	REINFORCEMENT	SPACING	
71B1	20x24	8-#11 (2 LAYERS)	8-#11 (2 LAYERS)	1-#5	8"	
71B2	30x38	12-#11 (2 LAYERS)	12-#11 (2 LAYERS)	1-#5	8"	6-#5 @ E.F. SKIN REINFORCEMENT

NOTES:
1. WHERE BARS ARE DETAILED IN MULTIPLE LAYERS, THE QUANTITY OF BARS INDICATED IS THE TOTAL NUMBER OF BARS NOT THE NUMBER OF BARS IN EACH LAYER.

TYPE 1
STIRRUP TYPES
N.T.S.

SHEET NOTES:

KEY PLAN:

NO. ISSUE SET

NO.	ISSUE SET	REV.	DATE
1	100% SD ISSUE	1	02-15-13
2	REVISED SD ISSUE	2	05-06-13
3	REVISED SD ISSUE	3	08-21-13
4	FINAL SD ISSUE	4	11-26-13
5	REVISED SD	5	08-22-14
6	SUPERSTRUCTURE EARLY BID	6	11-17-14
7	SET	7	12-22-14
8	DESIGN DEVELOPMENT SET	8	12-22-14
9	NYCT SUBMISSION	9	12-23-14
10	UPDATED DOB SET	10	01-20-15
11	TOWNO	11	04-27-15
12	85% CD	11	07-02-15
13	90% CD	12	11-24-15
14	PKA #2	13	01-26-16
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STAMP:

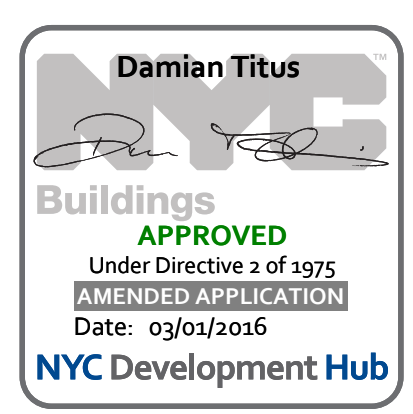
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DRAWING SCALE:
As indicated

PROJECT NUMBER:
2012088

TITLE:
BULKHEAD ROOF (71ST) FLOOR FRAMING PLAN

DRAWING NO.:
S-710.01



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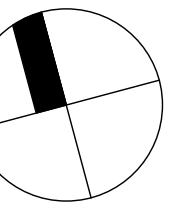
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SHEET NOTES:

KEY PLAN



NO	ISSUE SET	REV	DATE
1	70% CD	1	04-27-15
2	85% CD	2	07-02-15
3	95% CD	3	11-24-15
4	PAA #2	4	01-26-16
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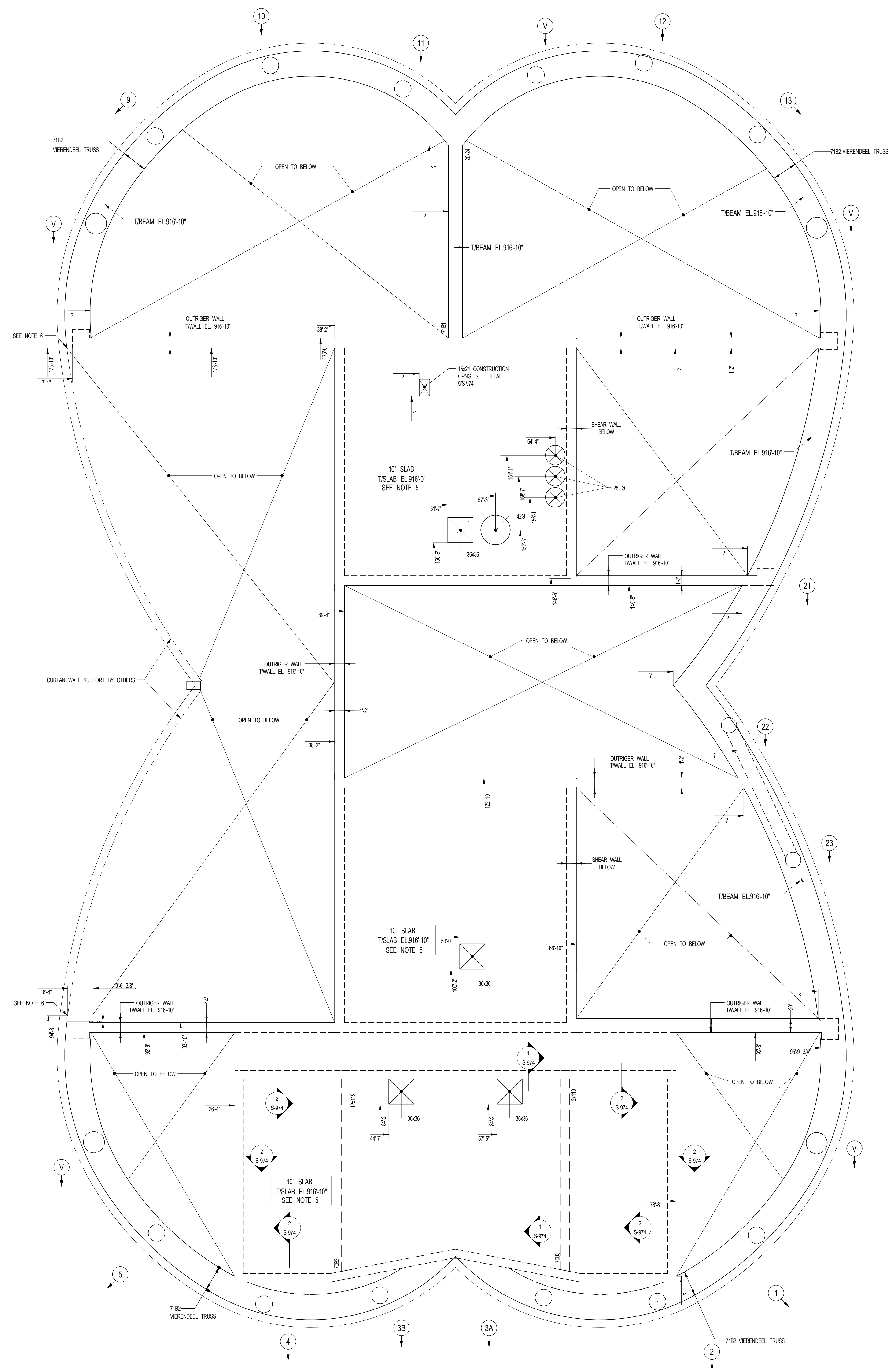
DATE OF PRINT
1/26/2016 8:08:42 PM

DRAWING SCALE
3/16" = 1'-0"

PROJECT NUMBER
2012088

TITLE
BULKHEAD ROOF (21ST) FLOOR GENERAL ARRANGEMENT PLAN

DRAWING NO.
S-719.00

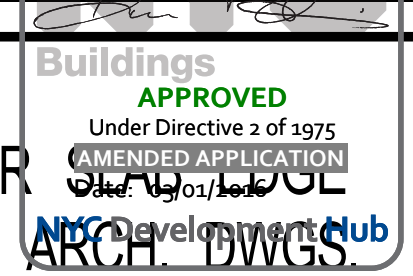


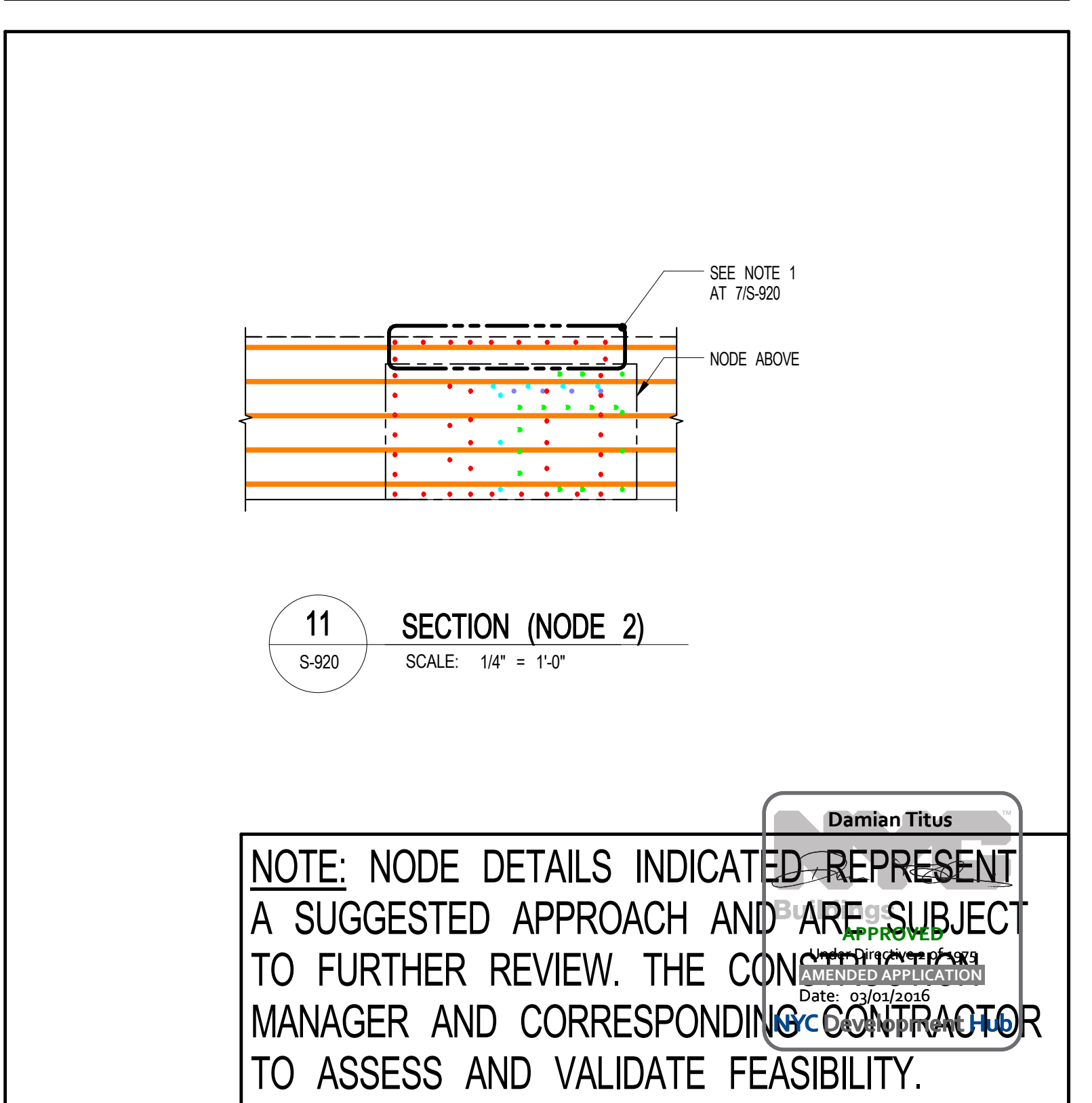
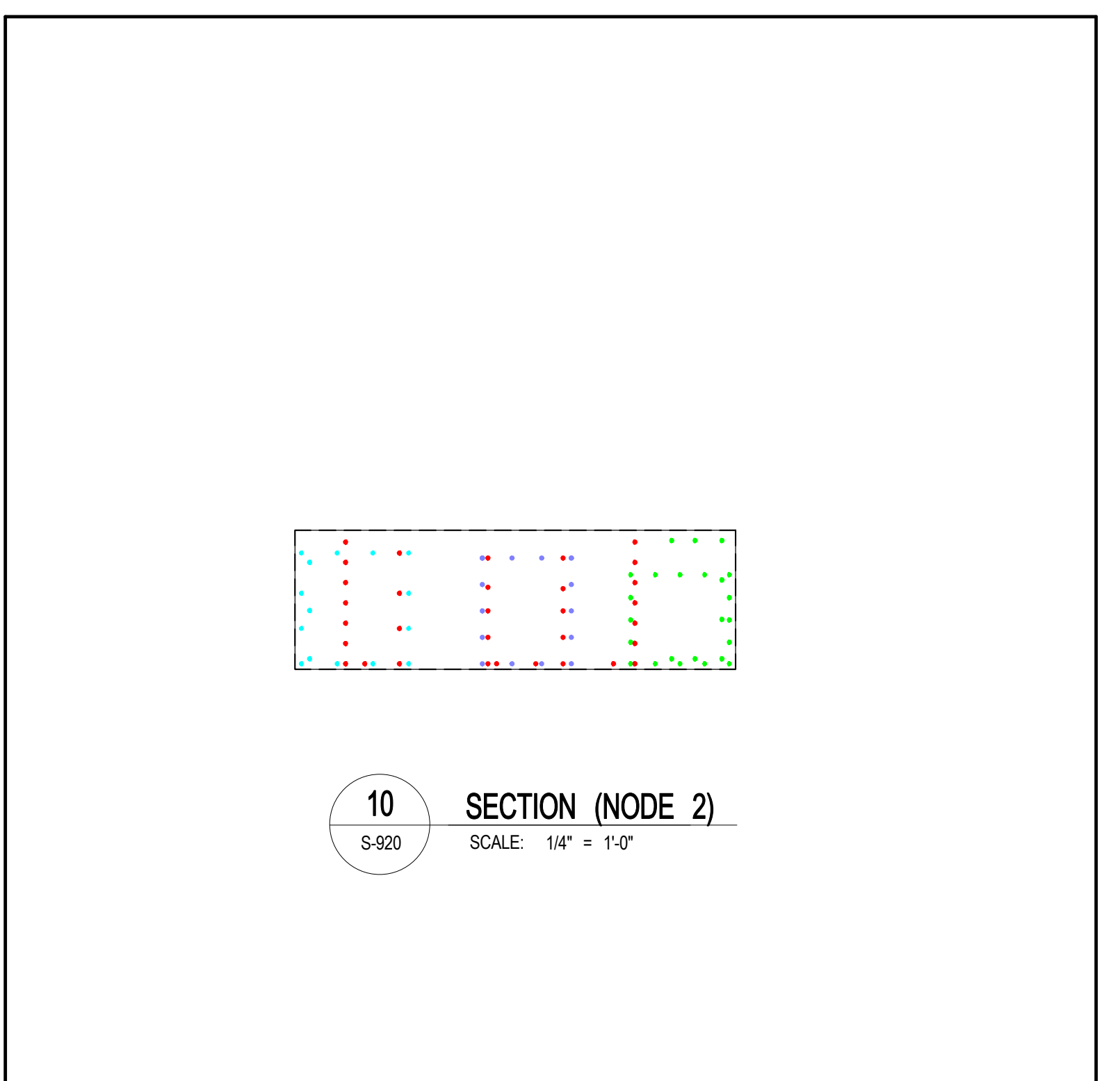
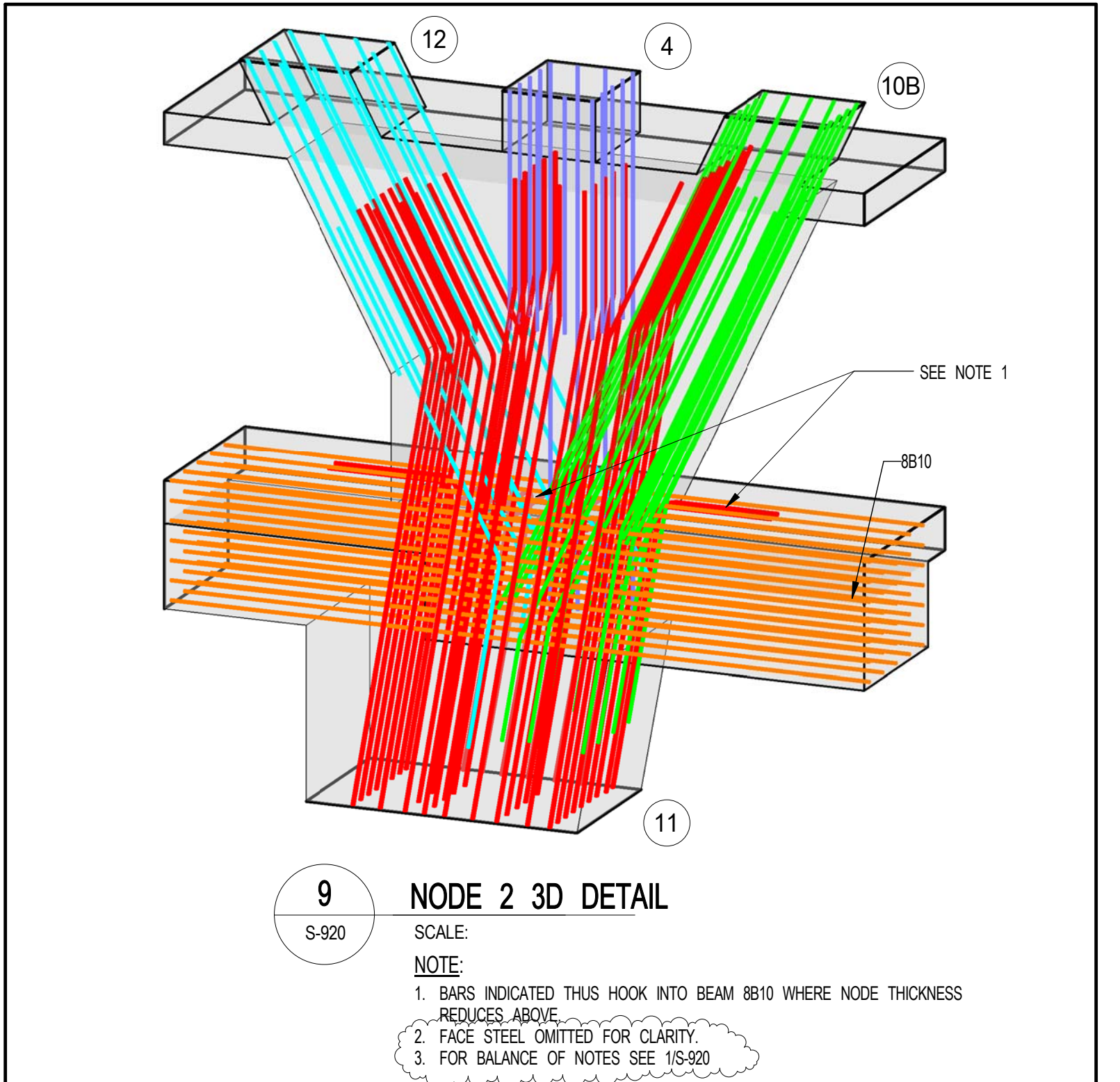
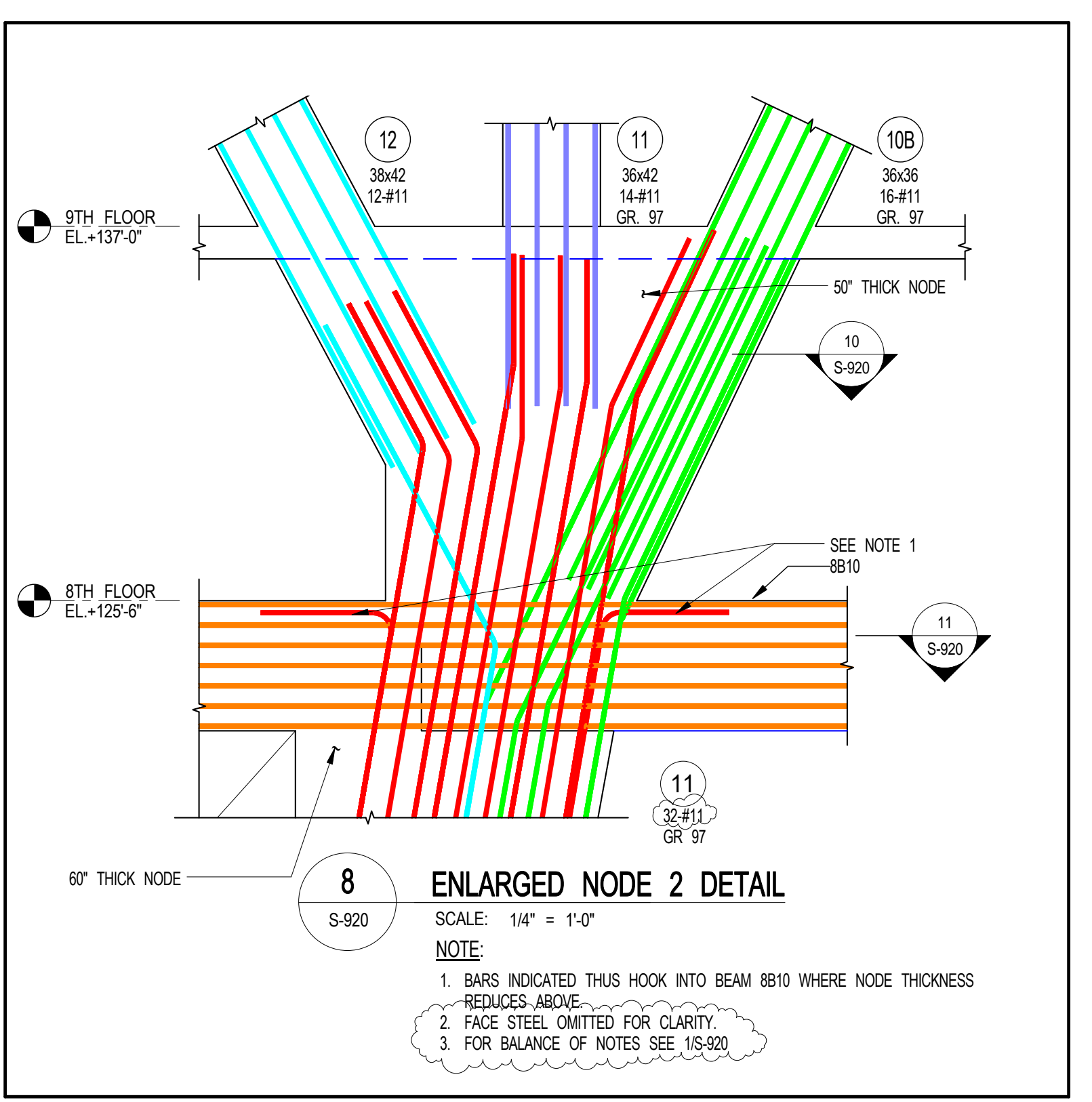
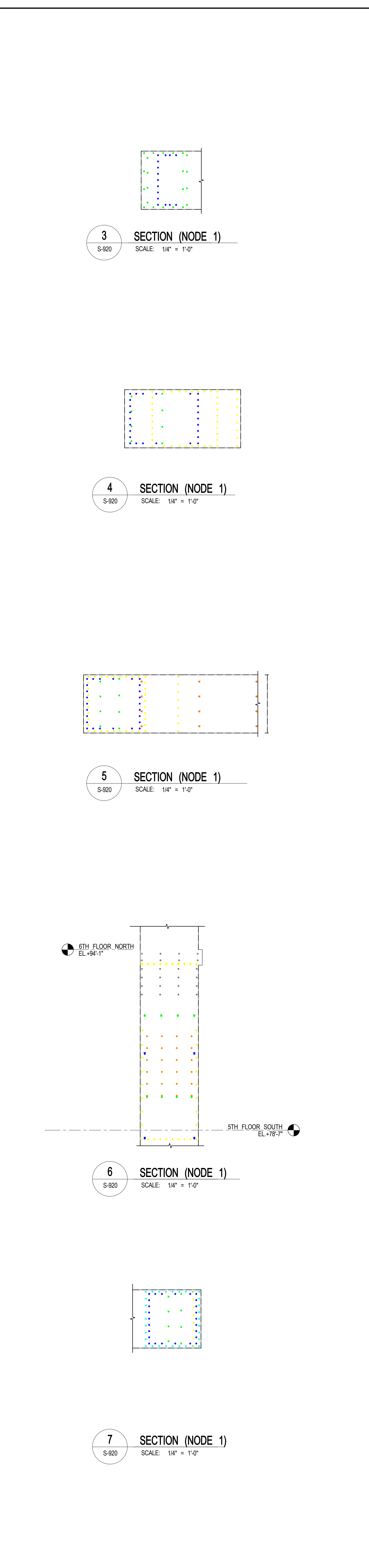
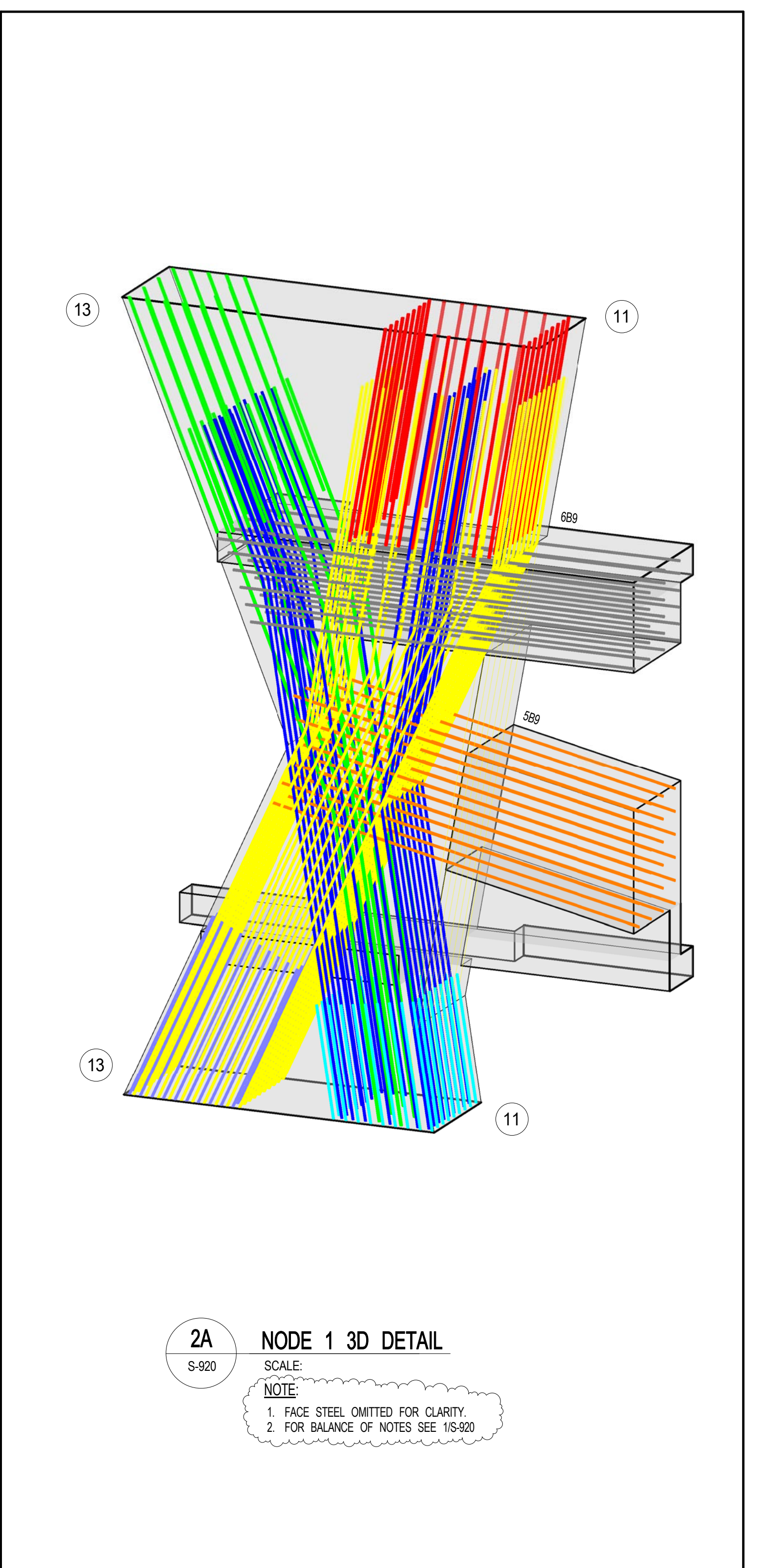
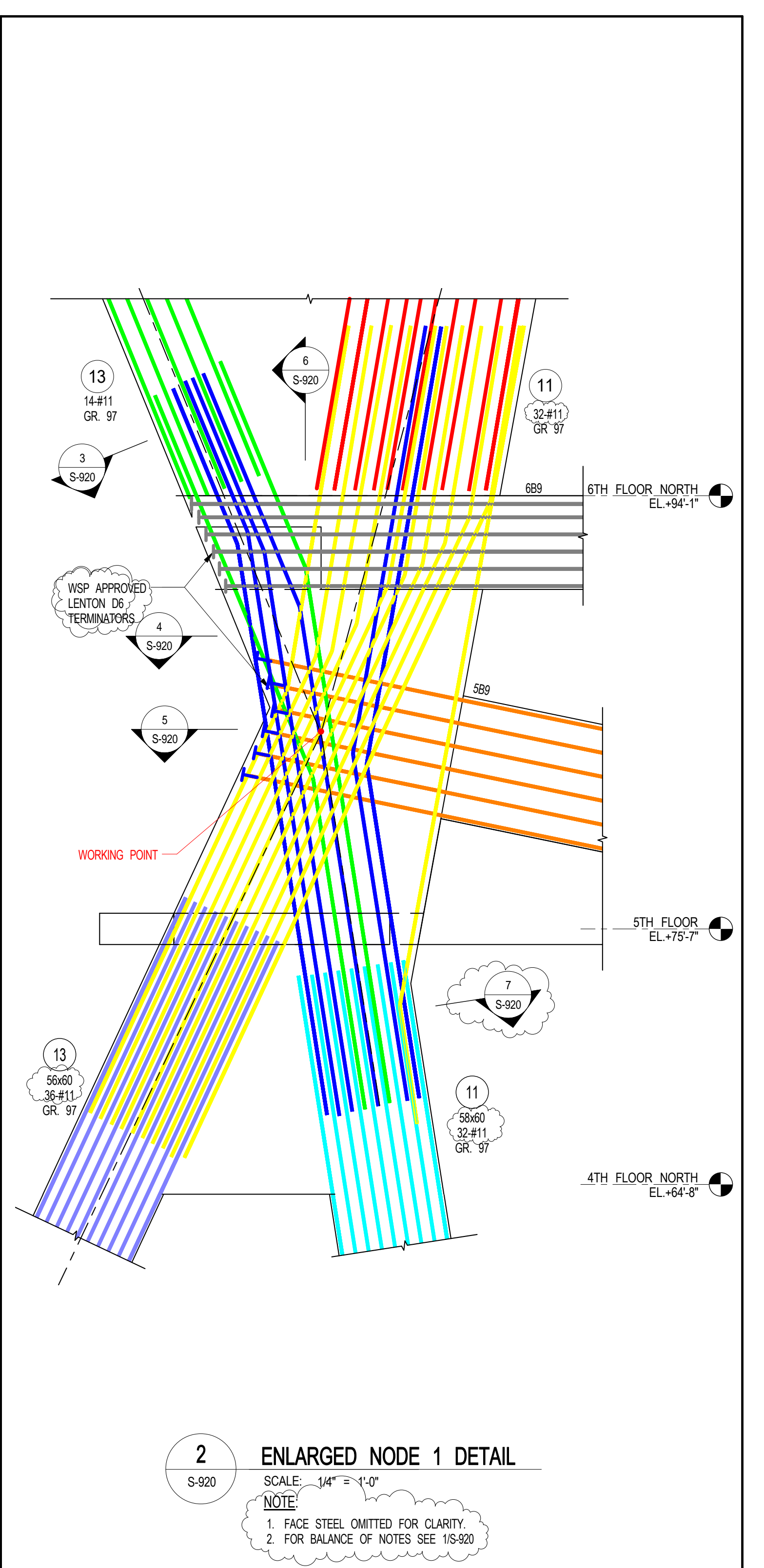
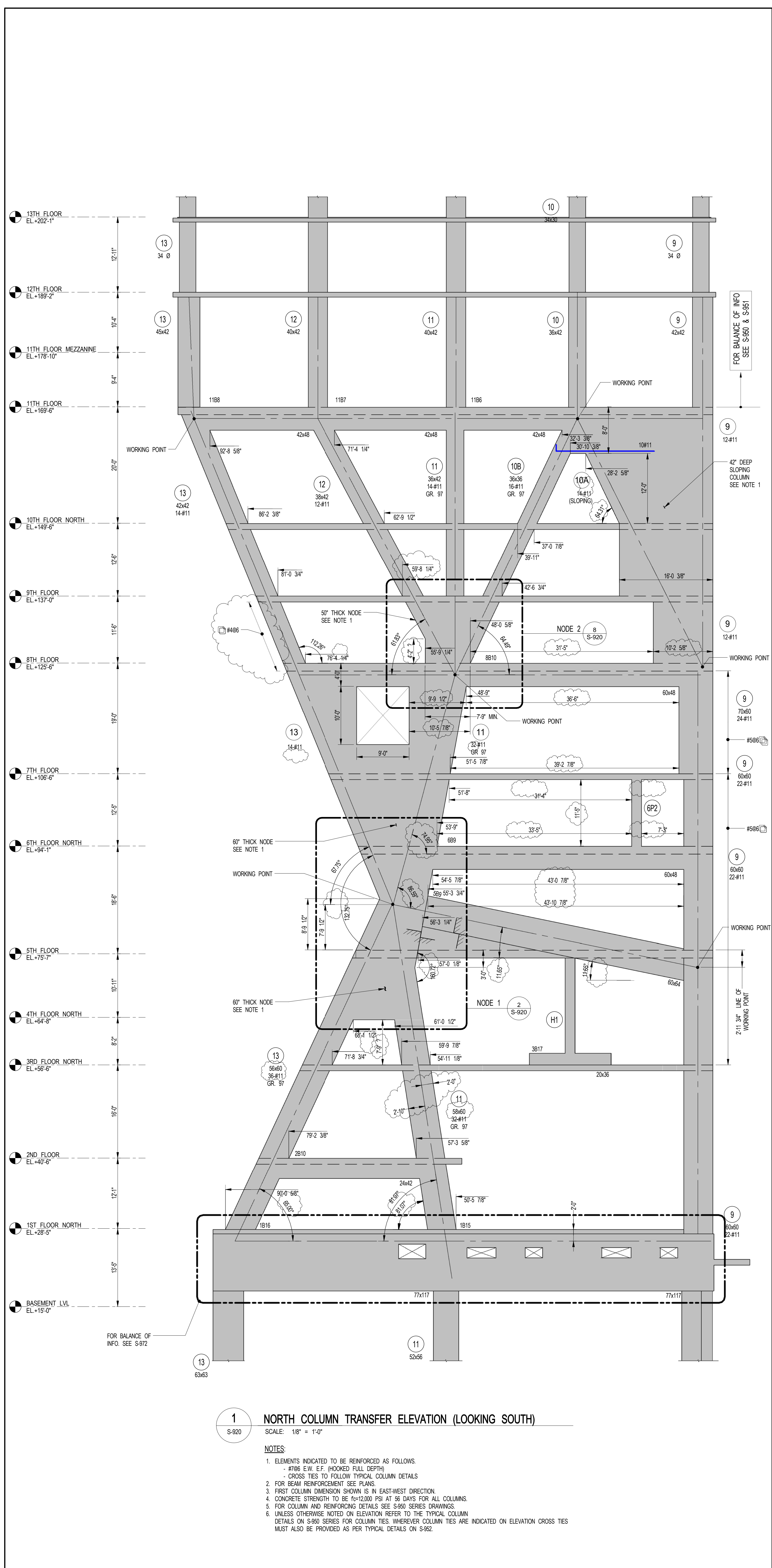
1 BULKHEAD ROOF (21ST) FLOOR GENERAL ARRANGEMENT PLAN
SCALE: 3/16" = 1'-0"

NOTES:
 1. TISLAB ELEVATION TO BE 916'-10" U/L ON PLAN THIS []
 2. SLAB THICKNESS TO BE 10" U/L ON THIS [] ON PLAN.
 3. FOR BALANCE OF NOTES SEE CORRESPONDING FRAMING PLAN.

NOTE:
SEE S-954 FOR THE
COORDINATES OF THE
FOLLOWING SLOPED COLUMNS:
1, 5, 9, 13, 17, 18, 21, 22

NOTE:
FOR PERIMETER
LOCATION SEE ARCH S-700.00





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SHEET NOTES:

NO.	ISSUE SET	REV DATE
1	SUPERSTRUCTURE EARLY BID	1 11-17-14
2	SET	2
3	DESIGN DEVELOPMENT SET	2 12-22-14
4	INVT SUBMISSION	3 12-23-14
5	UPDATED DOR SET	4 01-20-15
6	70%CD	5 04-27-15
7	85%CD	6 07-02-15
8	95%CD	7 11-24-15
9	PAA #2	8 01-28-16
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KEY PLAN

STAMP

DATE OF PRINT:
12/26/16 5:48:19 PM

DRAWING SCALE:
As indicated

PROJECT NUMBER:

TITLE:
NORTH COLUMN TRANSFER ELEVATION AND DETAILS 1

DRAWING NO.:
S-920.01

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LANDSCAPE DESIGNER:
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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	SUPERSTRUCTURE EARLY BID	1 11-17-14
2	SET	2 12-22-14
3	DESIGN DEVELOPMENT SET	3 12-23-14
4	INVT SUBMISSION	4 01-20-15
5	UPDATED DOR SET	5 04-27-15
6	70% CD	6 07-02-15
7	85% CD	7 07-30-15
8	REVISED AS NOTED	8 09-03-15
9	90% PARTIAL CD ISSUE - FLOORS	9 09-03-15
10	SC-12	10 11-24-15
11	95% CD	10 01-26-16
12	FAA #2	
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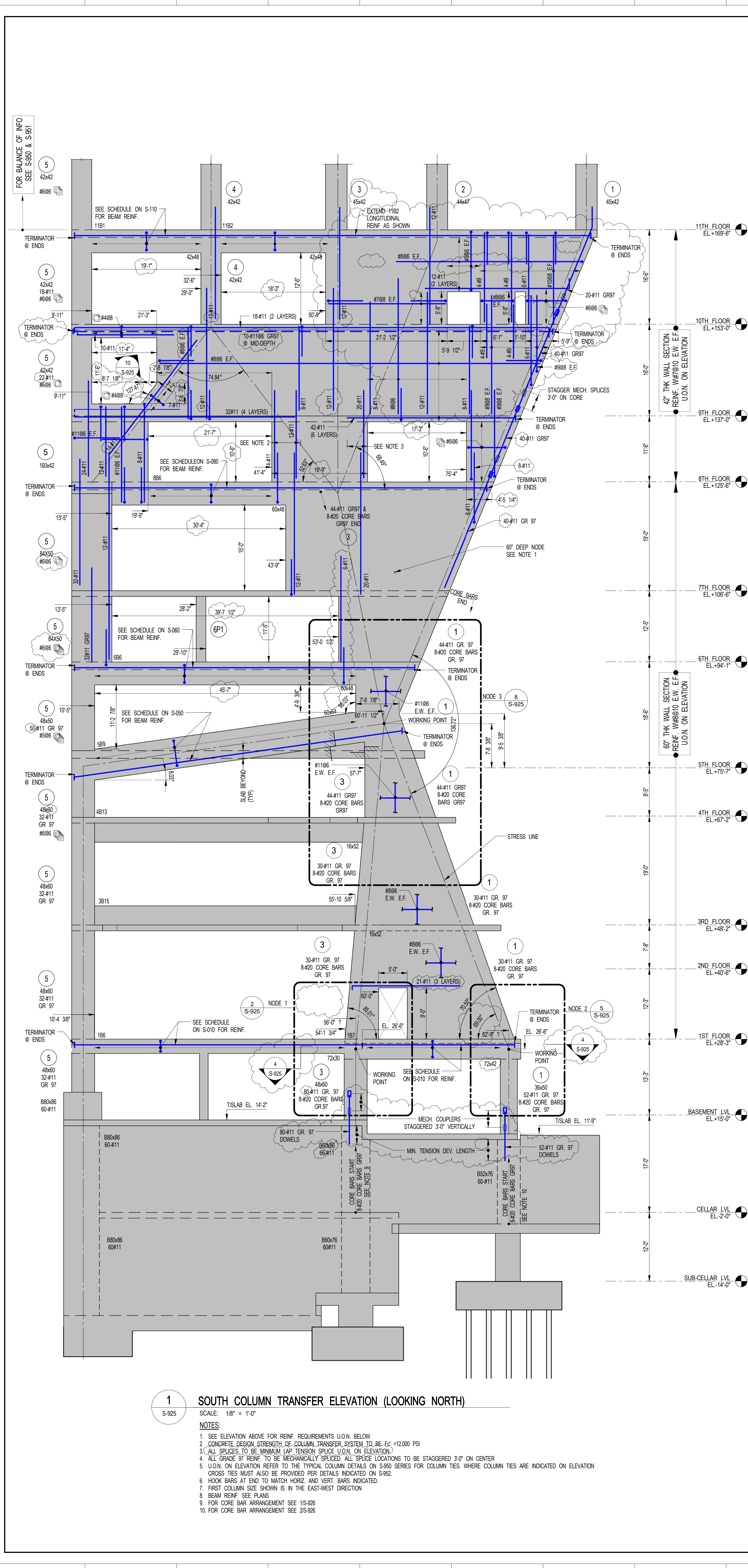
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DRAWING SCALE
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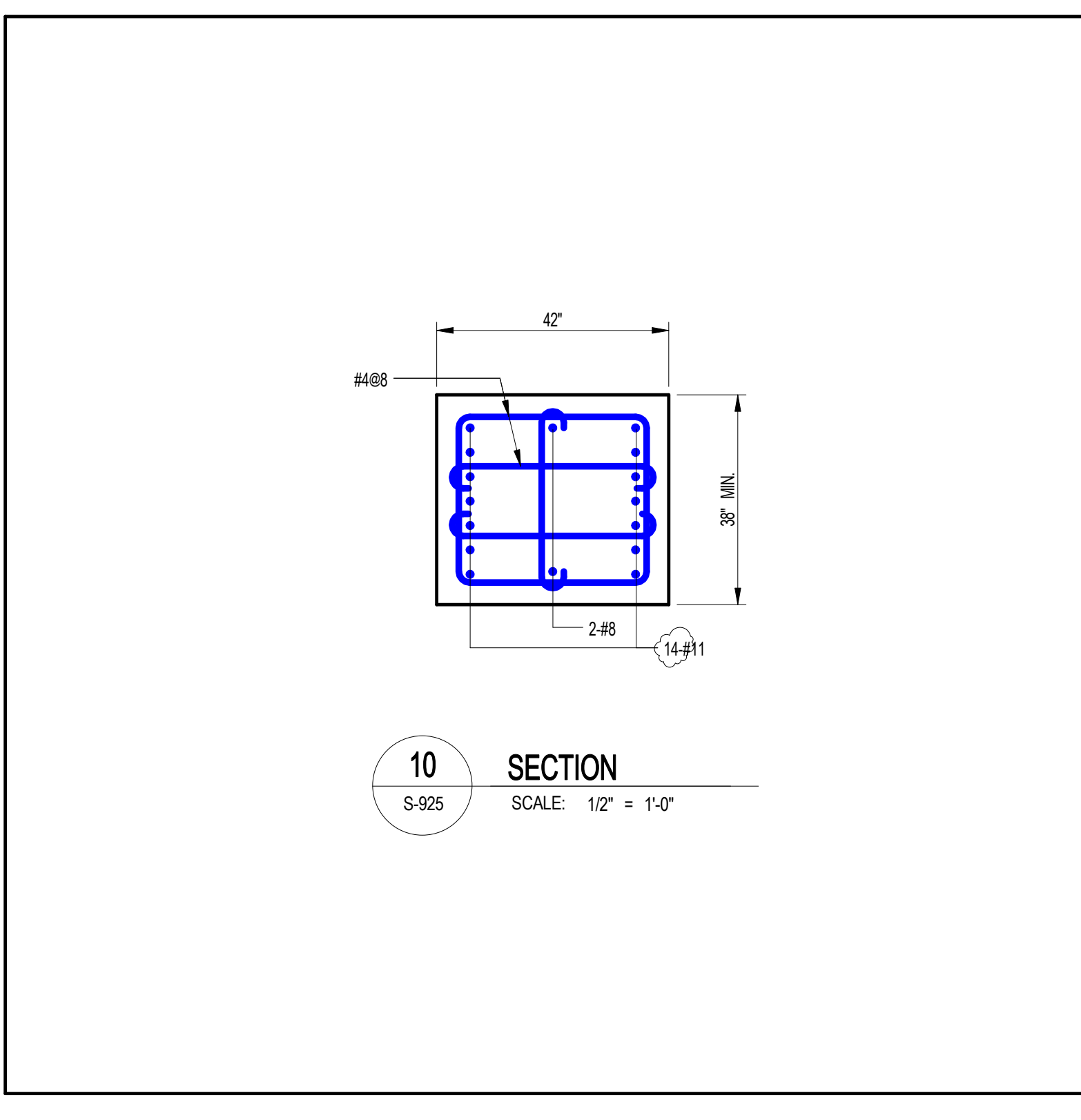
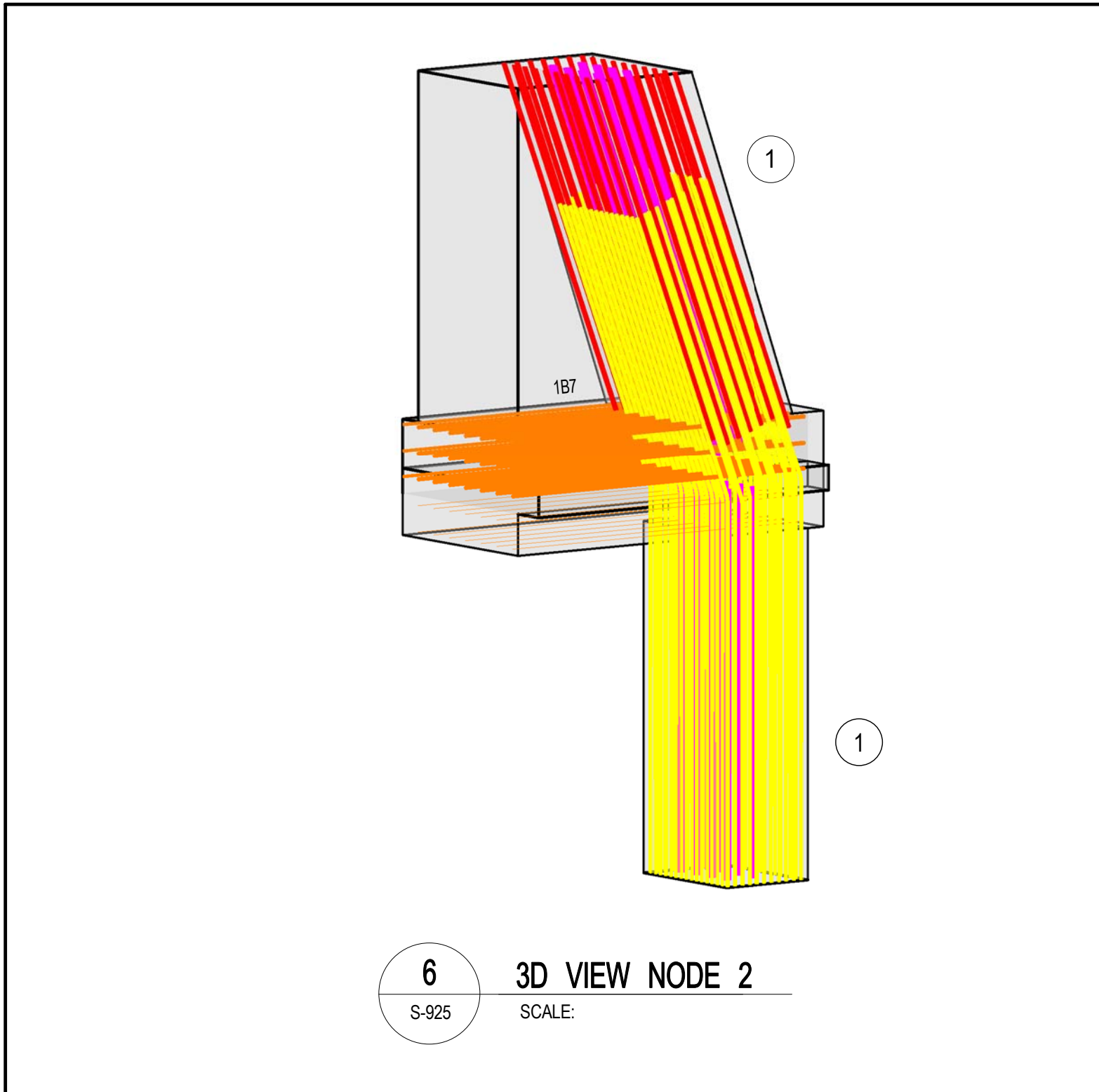
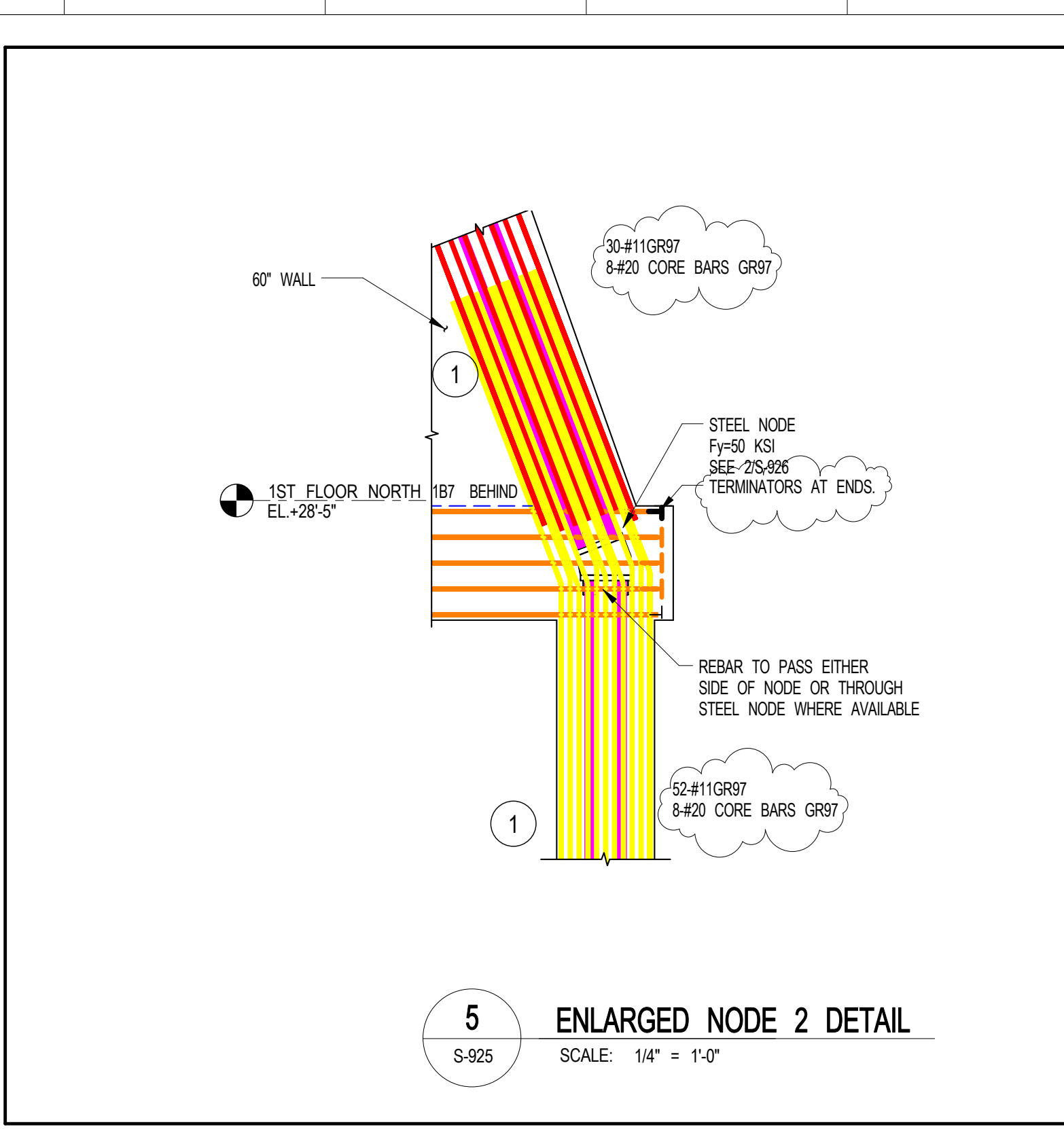
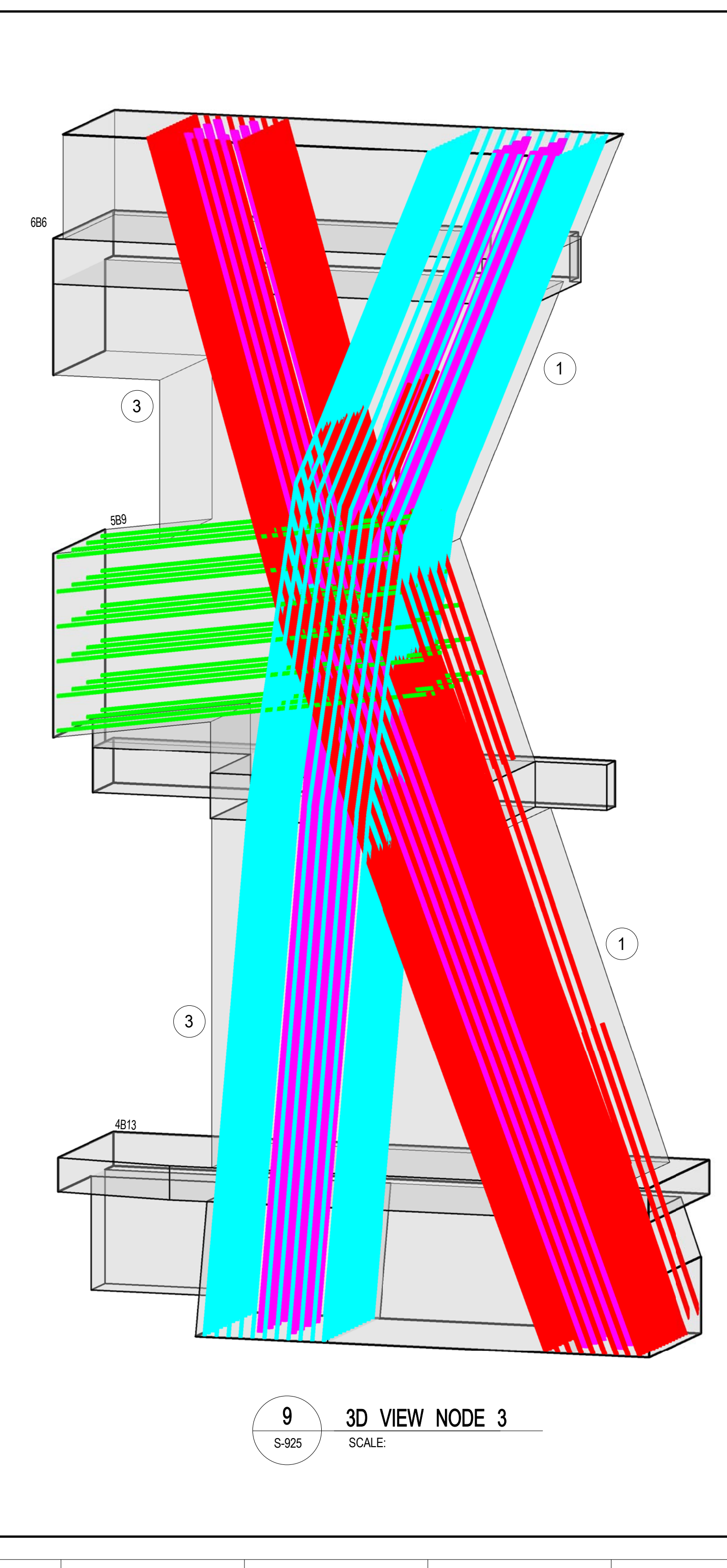
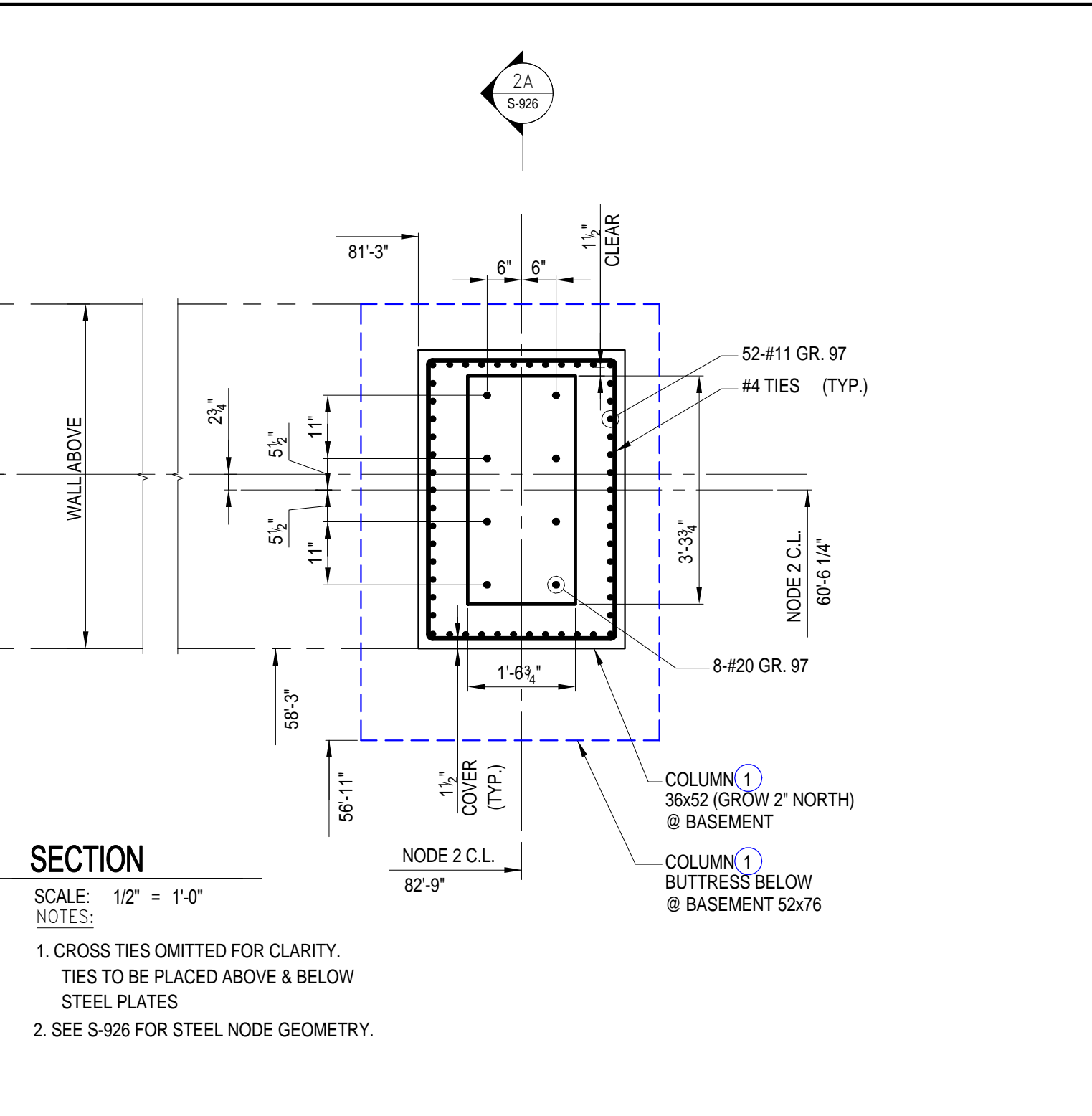
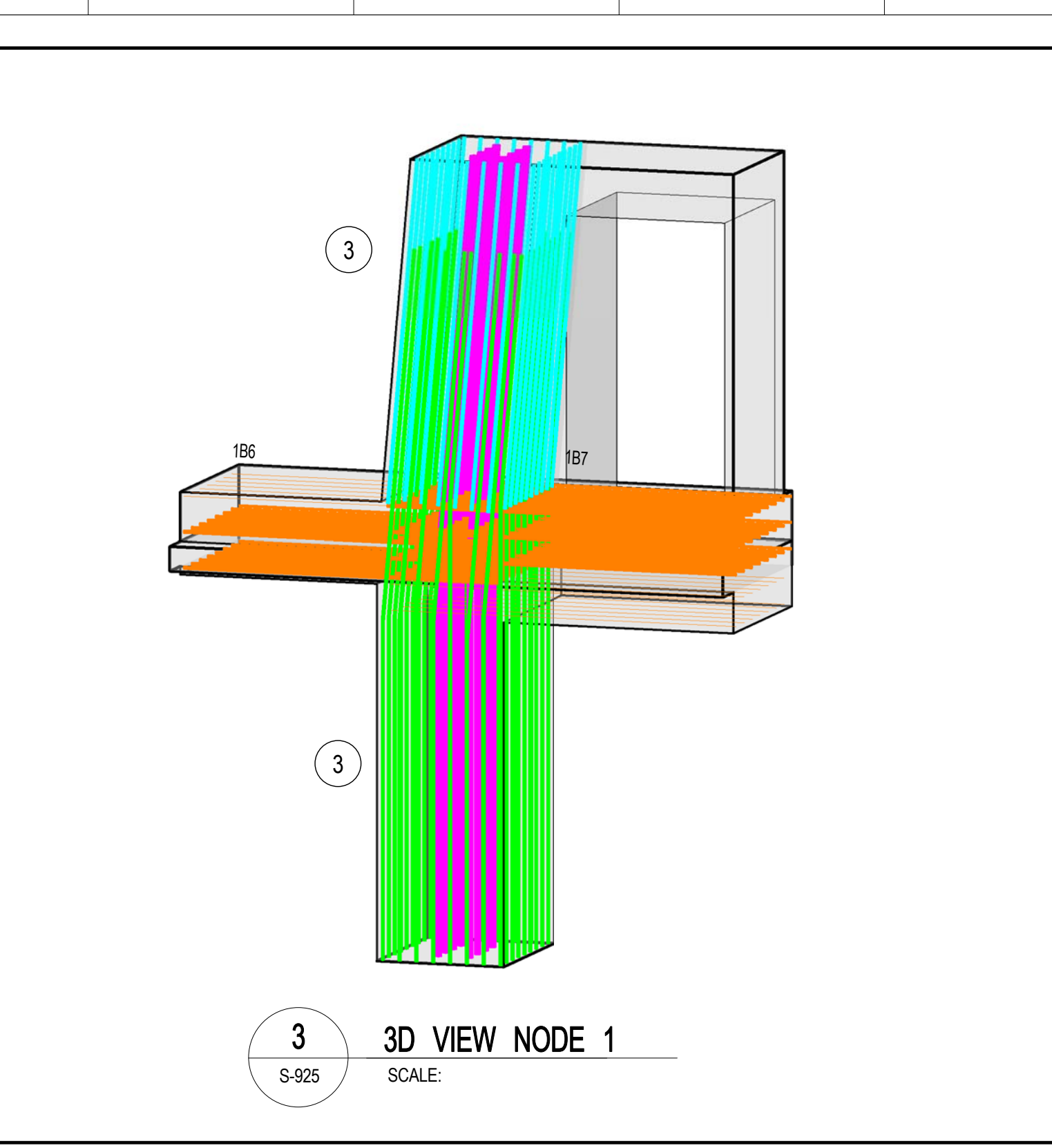
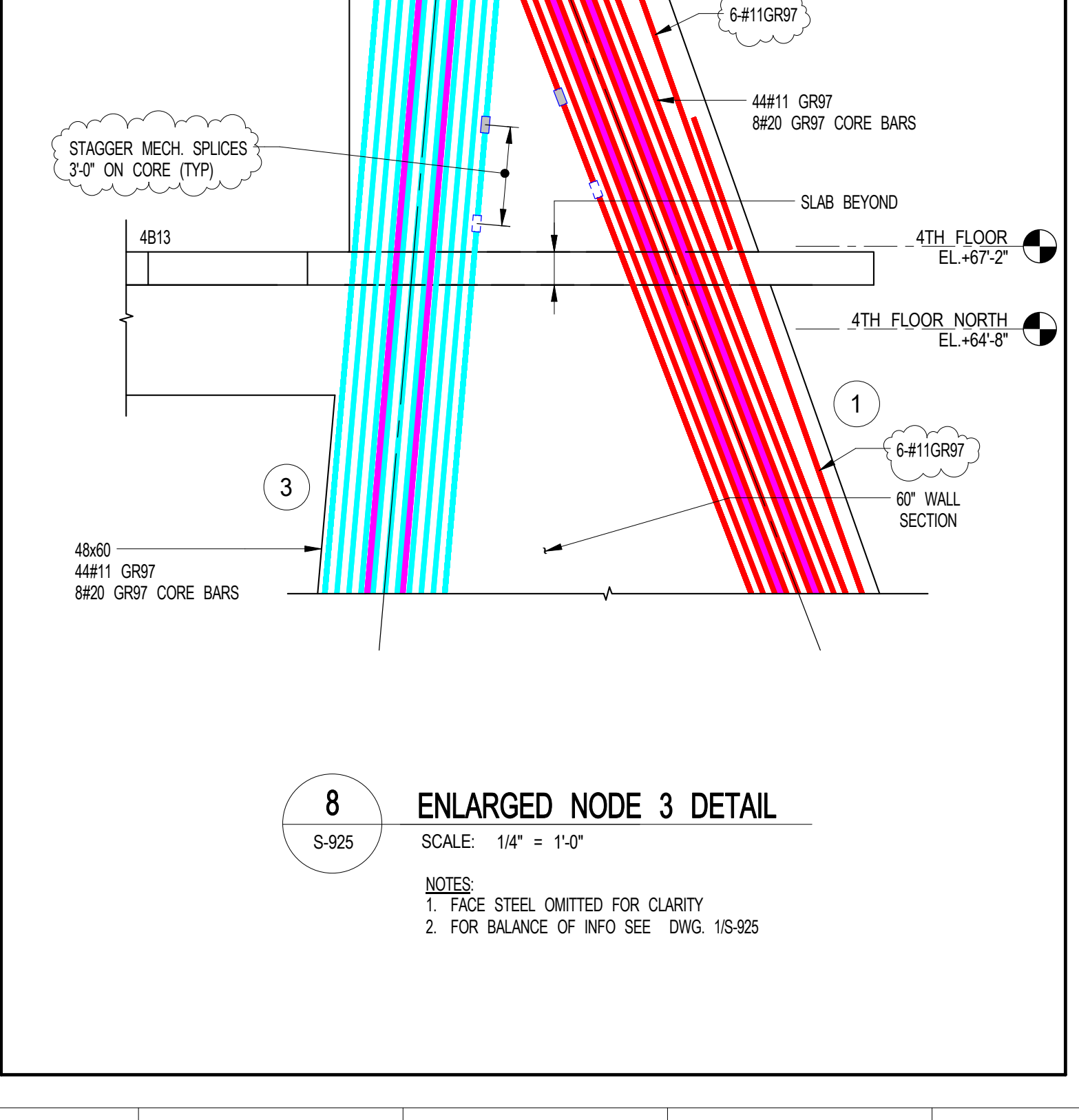
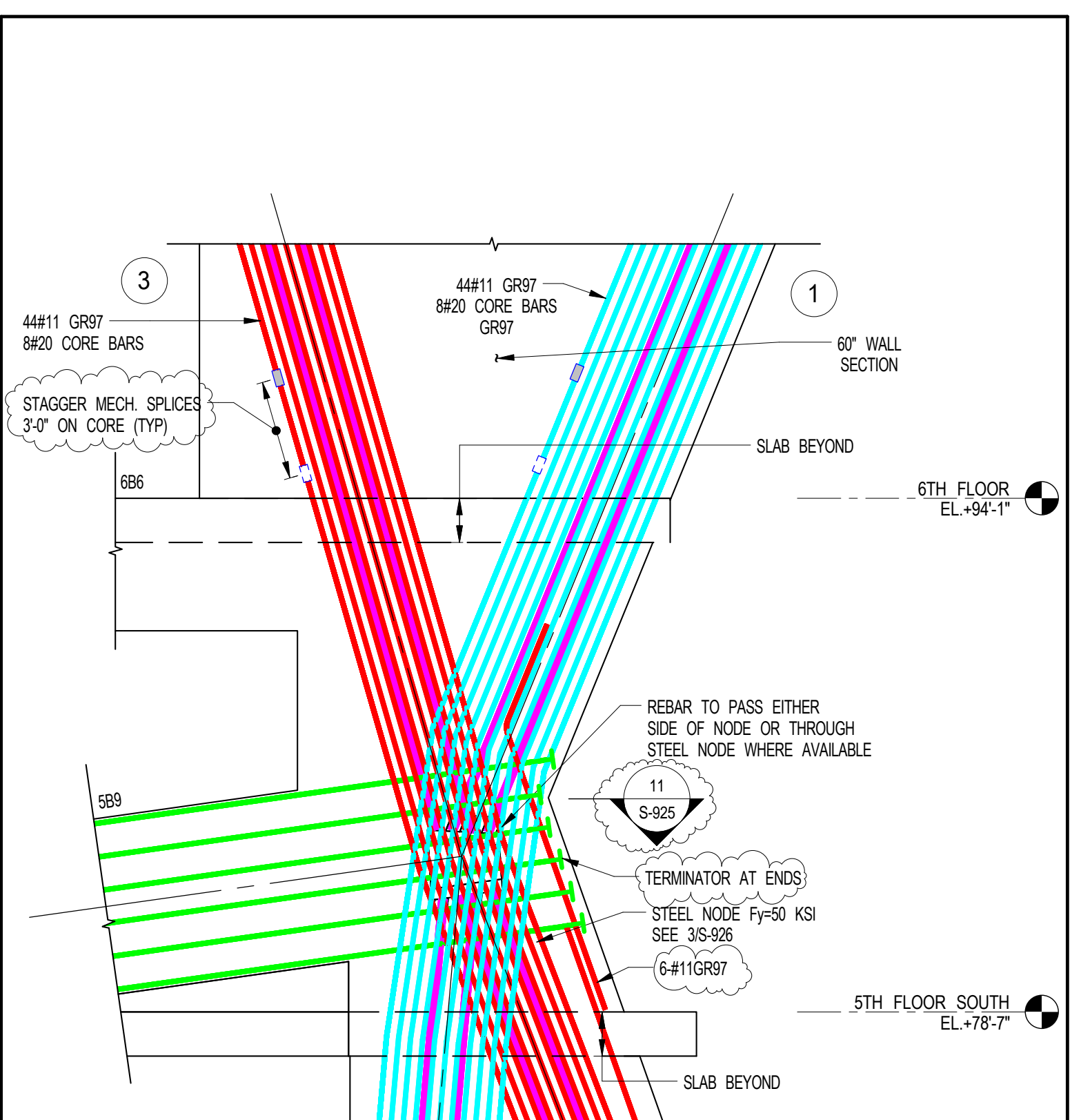
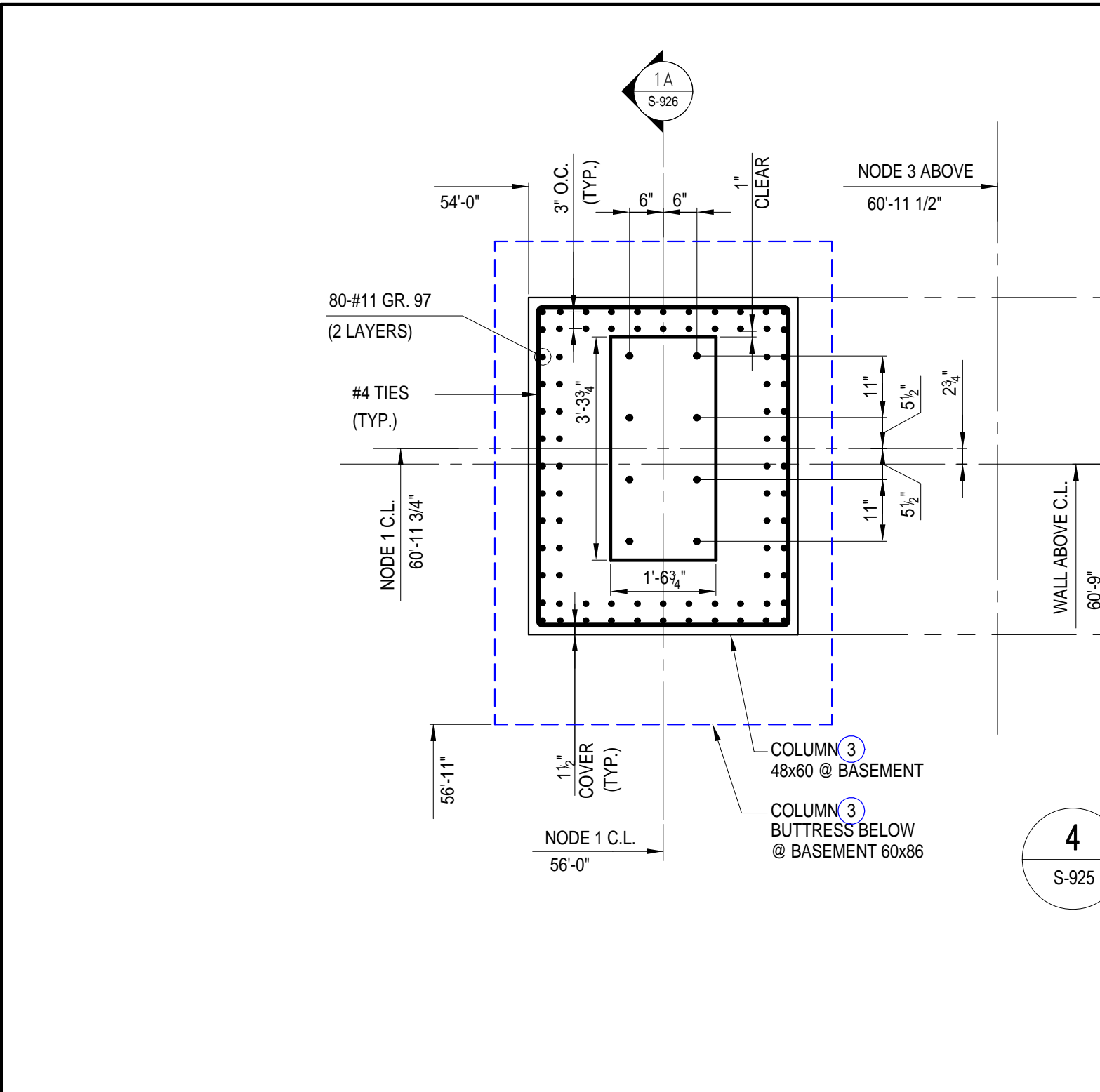
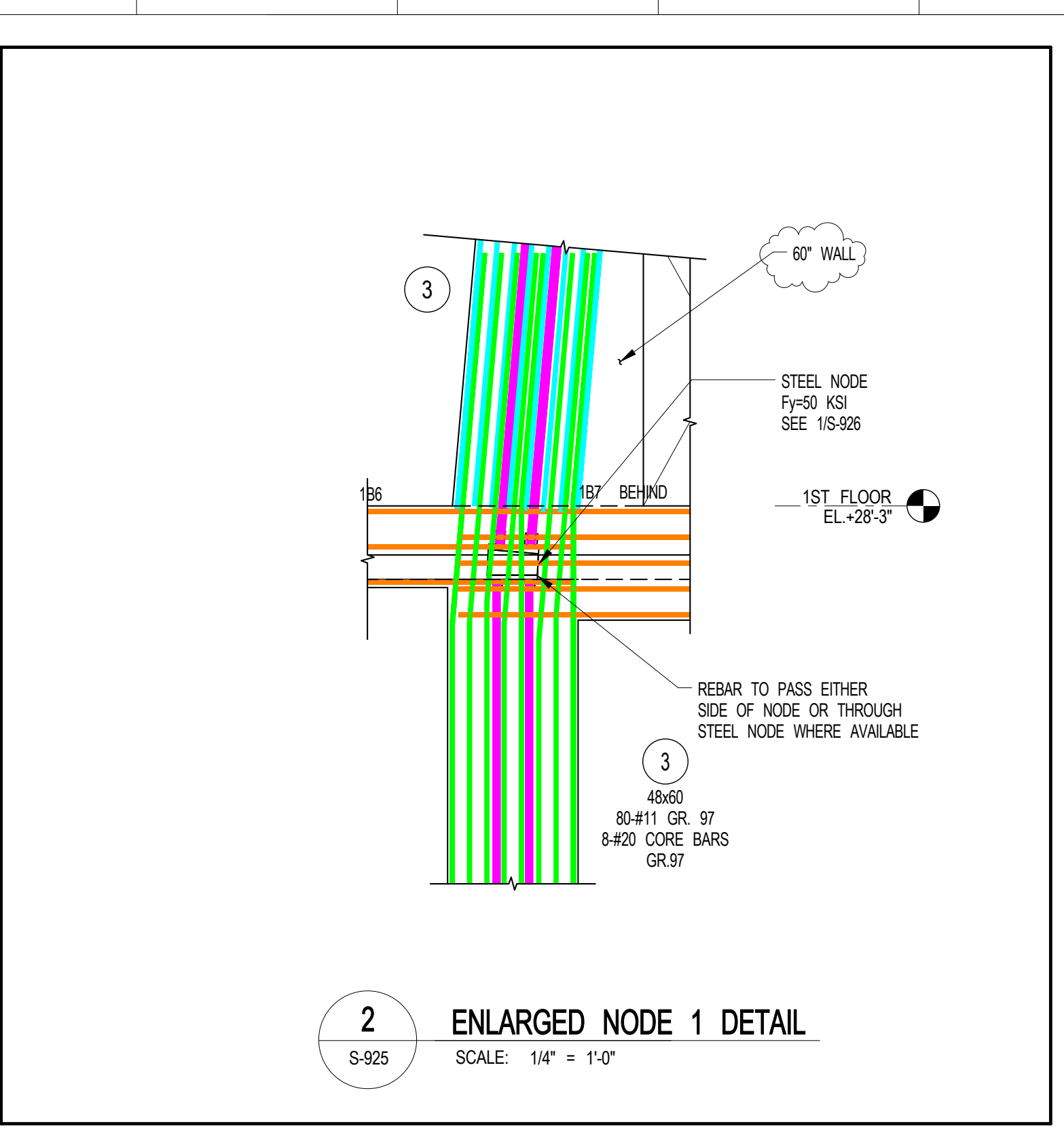
PROJECT NUMBER
 201268

TITLE
 SOUTH COLUMN TRANSFER ELEVATION
 AND DETAILS

DRAWING NO.
 S-925.01



- NOTES:
- SEE ELEVATION ABOVE FOR REIN REQUIREMENTS UOIN BELOW
 - CONCRETE DESIGN STRENGTH OF COLUMN TRANSFER SYSTEM TO BE $f_c' = 12000$ PSI
 - ALL SPICES TO BE MINIMUM LAP TENSION SPICE UOIN ON ELEVATION
 - ALL CROSS OF REIN TO BE MECHANICALLY SPICED. ALL SPICE LOCATIONS TO BE STAGGERED 34" ON CENTER
 - UOIN ON ELEVATION REFER TO THE TYPICAL COLUMN DETAILS ON S-80 SERIES FOR COLUMN TIES WHERE COLUMN TIES ARE INDICATED ON ELEVATION
 - CROSS TIES MUST ALSO BE PROVIDED FOR DETAILS INDICATED ON S-80
 - HOOK BARS AT END TO MATCH HORIZ AND VERT. BARS INDICATED
 - FIRST COLUMN SIDE SHOWN IS IN THE EAST-WEST DIRECTION
 - BEAM REIN. SEE PLANS
 - FOR CORE BAR ARRANGEMENT SEE 1S-925
 - FOR CORE BAR ARRANGEMENT SEE 2S-925



NOTE: NODE DETAILS INDICATED REPRESENT A SUGGESTED APPROACH AND ARE SUBJECT TO FURTHER REVIEW. THE CONTRACTOR MANAGER AND CORRESPONDING CONTRACTOR TO ASSESS AND VALIDATE FEASIBILITY.

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SHEET NOTES:

NO	ISSUE SET	REV	DATE
	DESIGN DEVELOPMENT SET	12-22-14	
	NYC SUBMISSION	12-23-14	
	UPDATED DOB SET	01-20-15	
	70% CD	04-27-15	
	85% CD	07-02-15	
	90% PARTIAL CD ISSUE	09-03-15	
	FLOORS SC-12	11-24-15	
	85% CD	11-24-15	
	PAA #2	01-26-16	



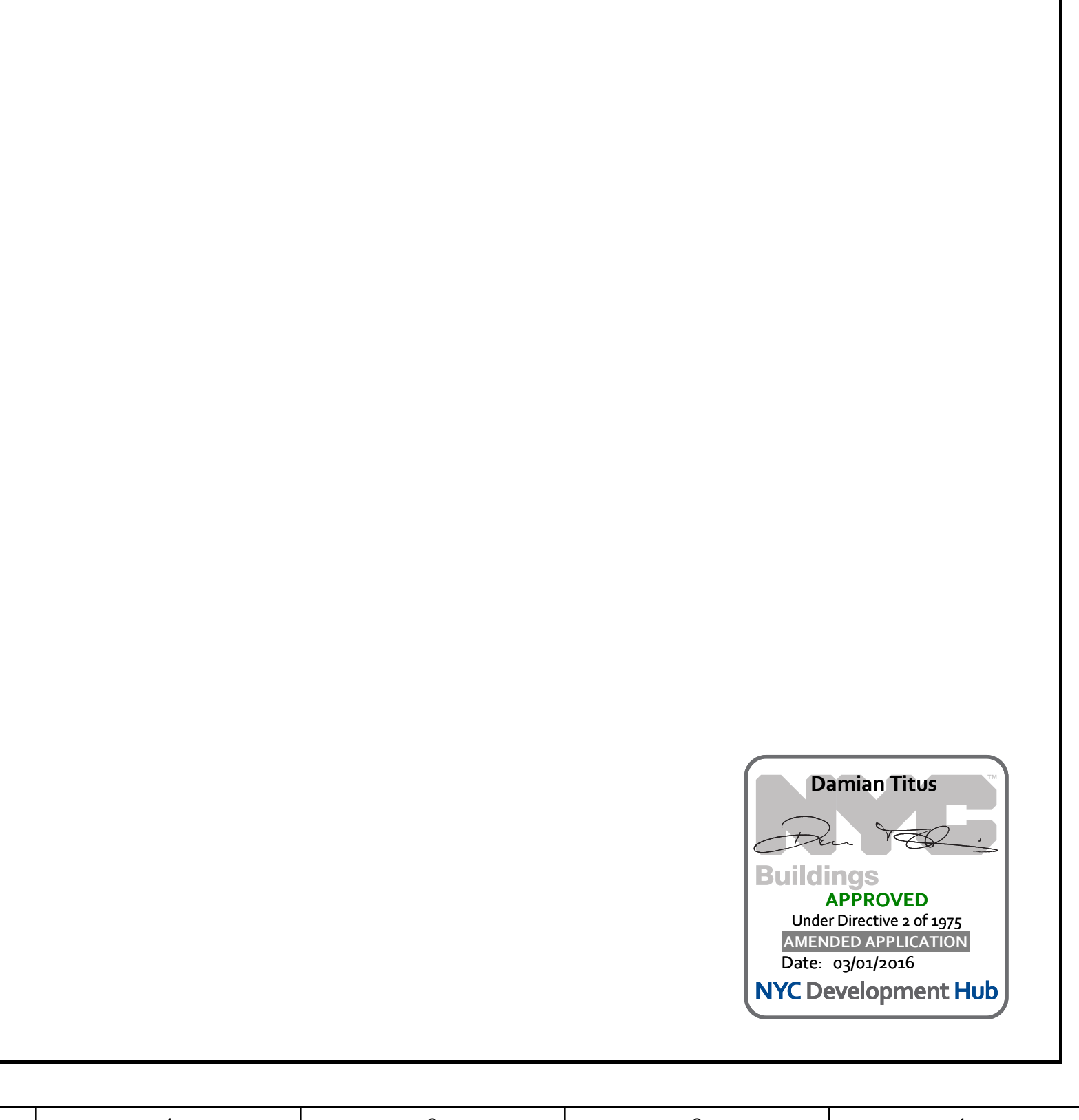
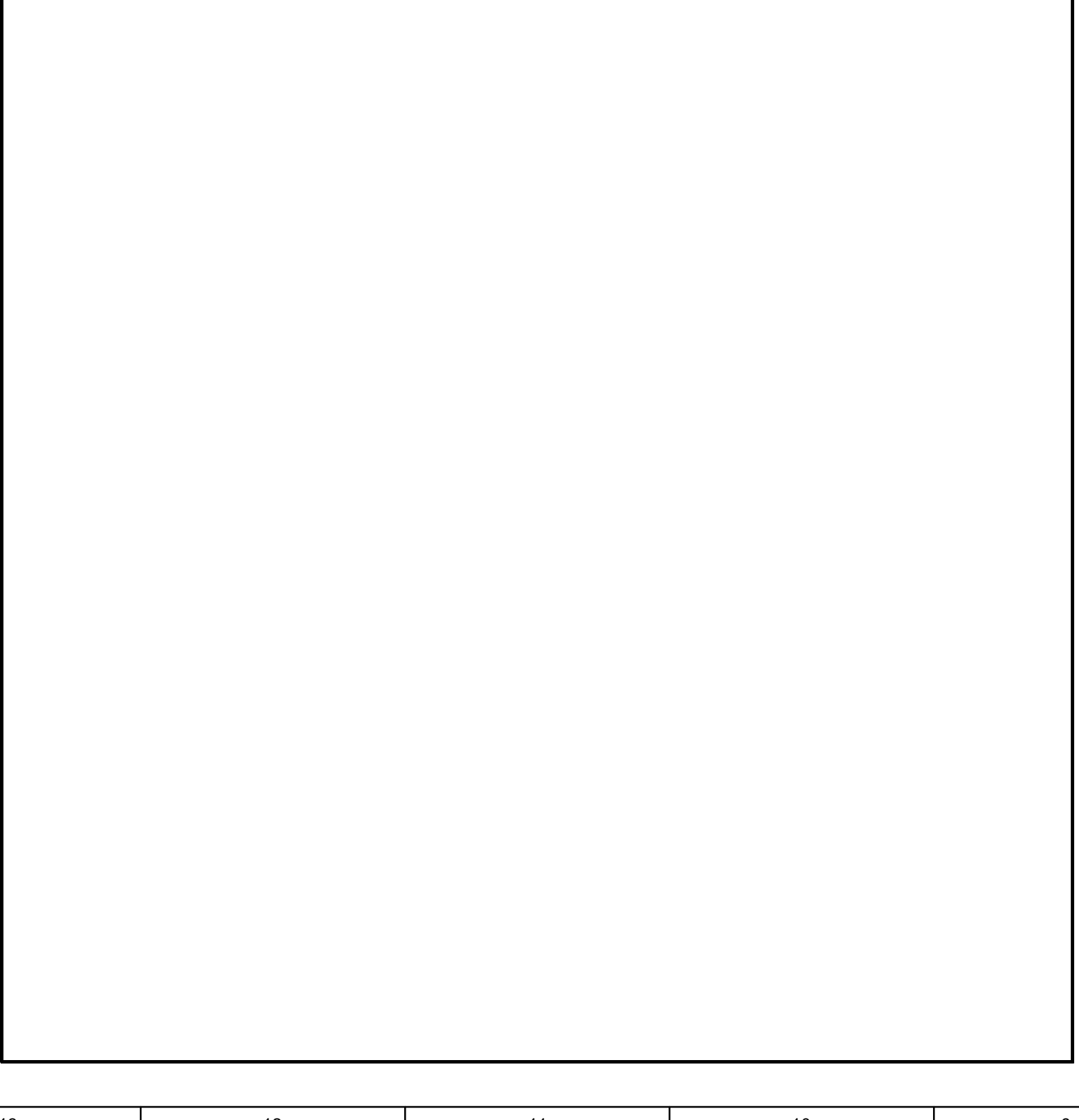
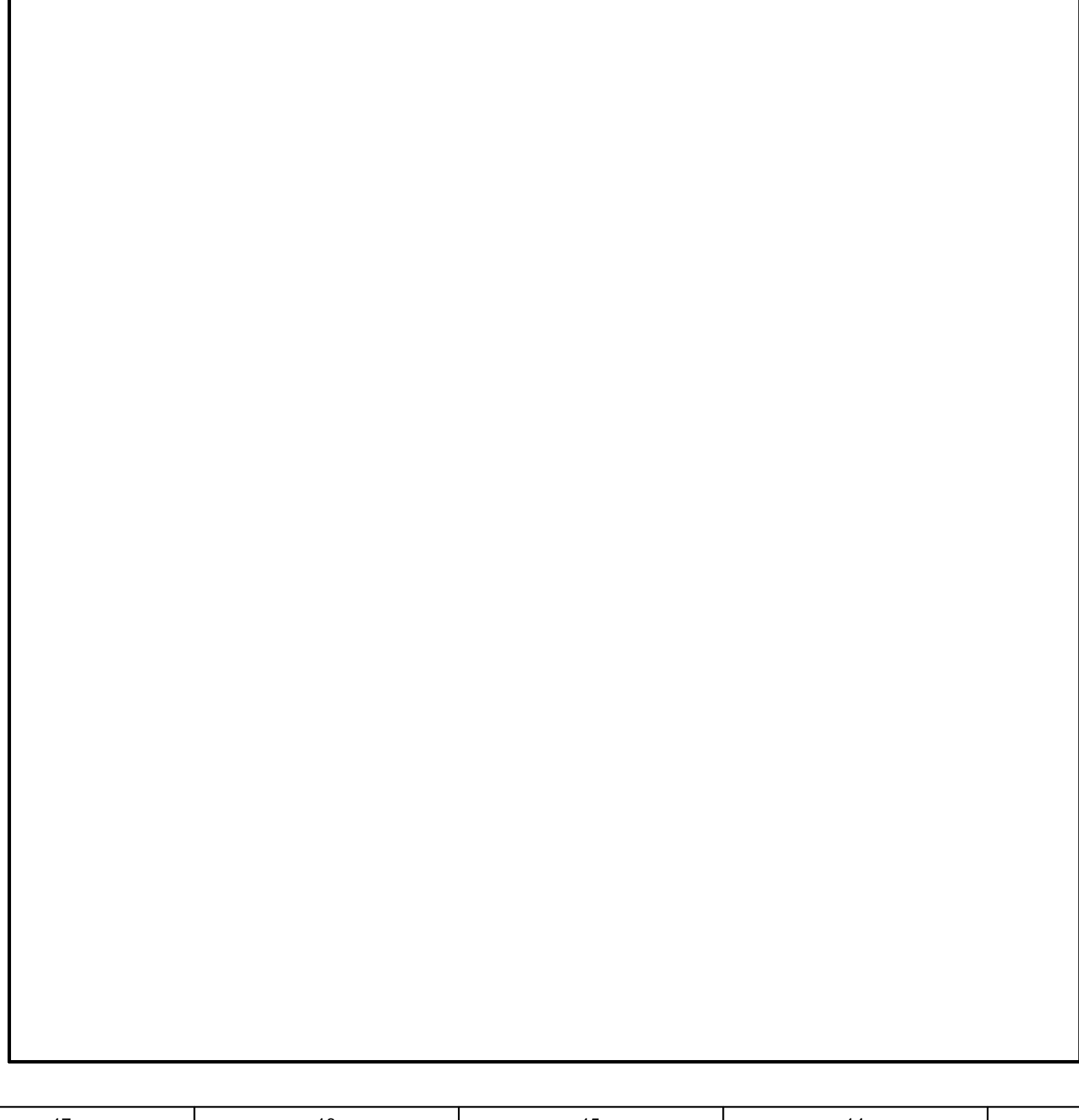
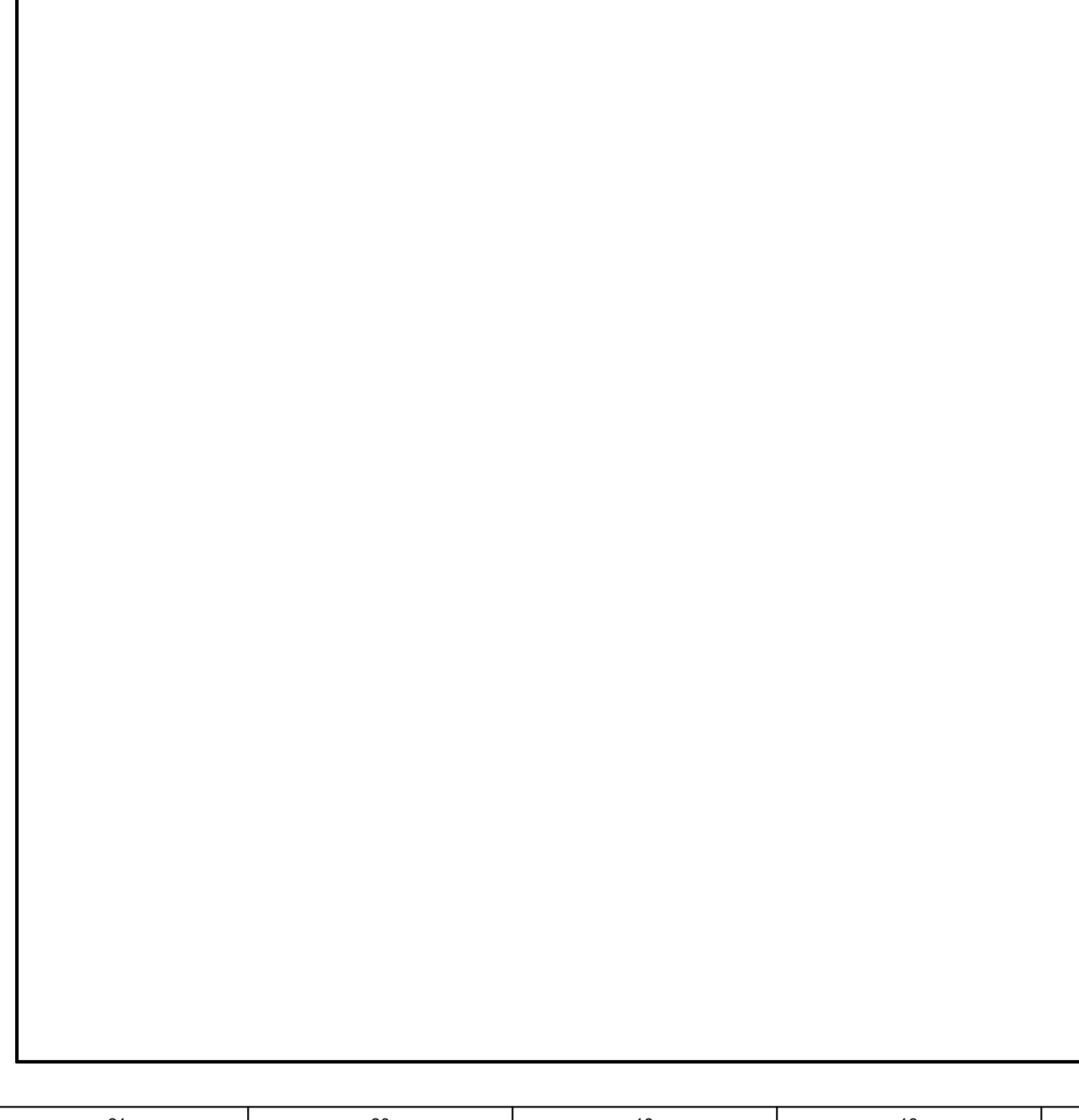
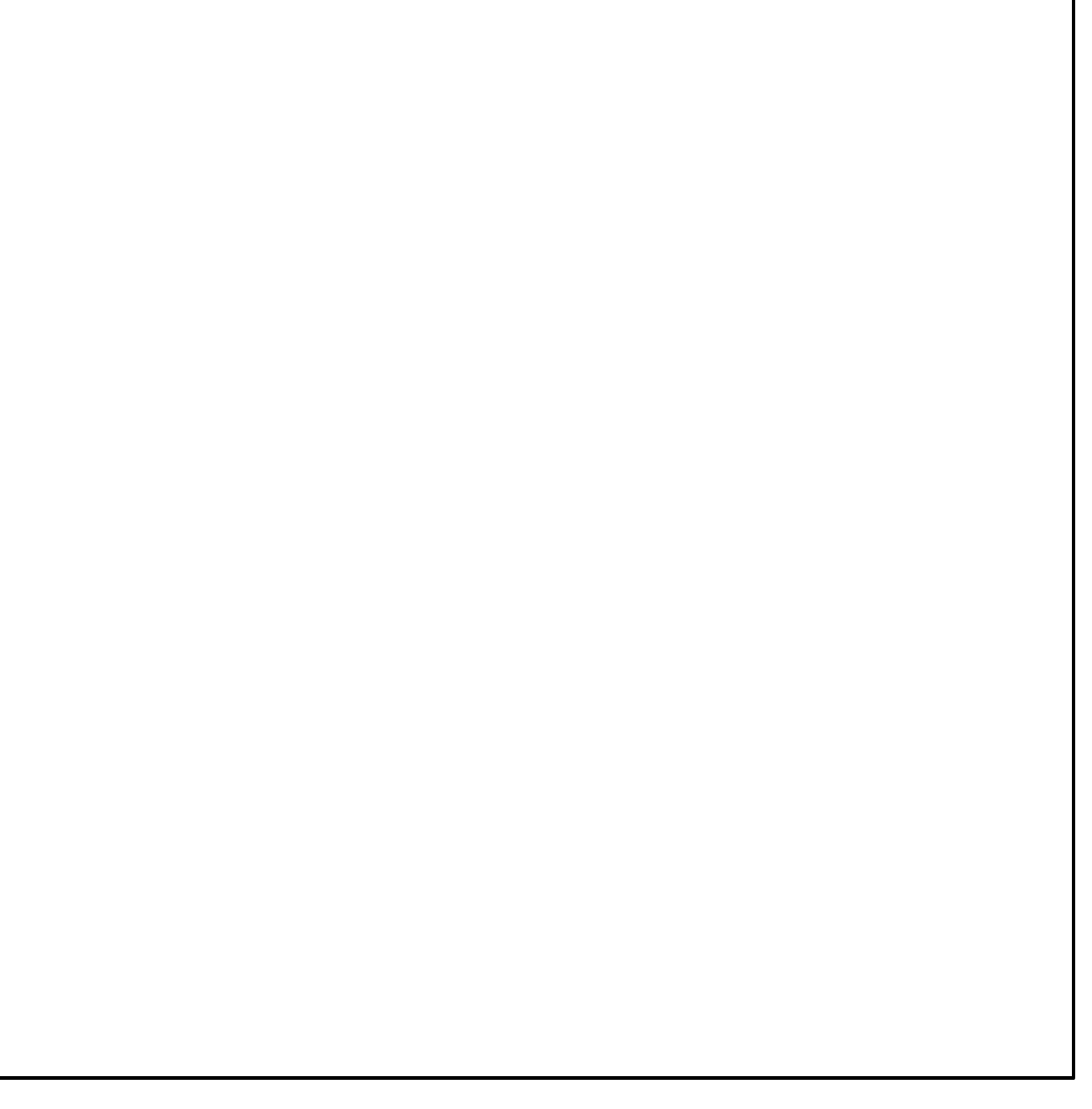
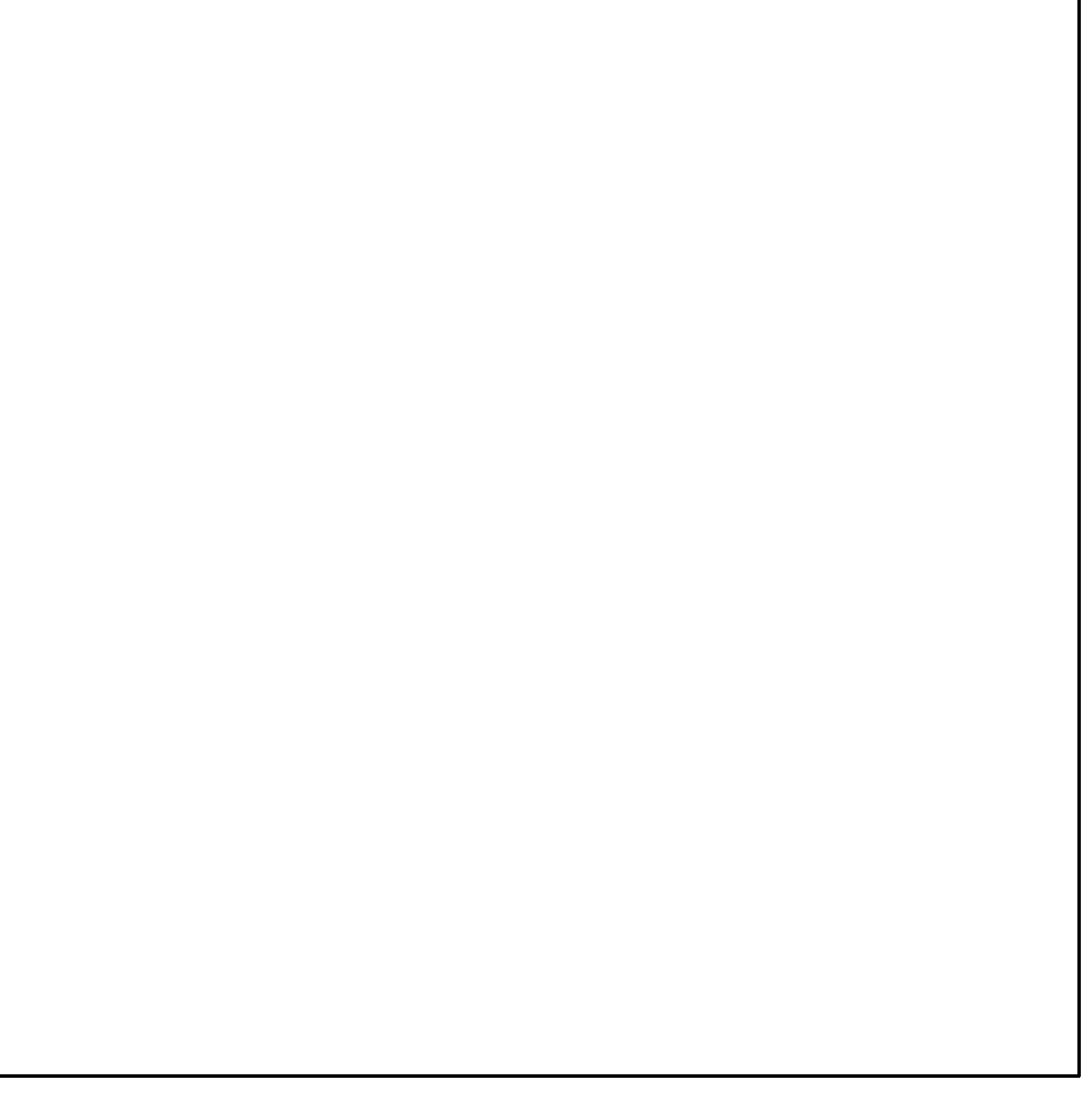
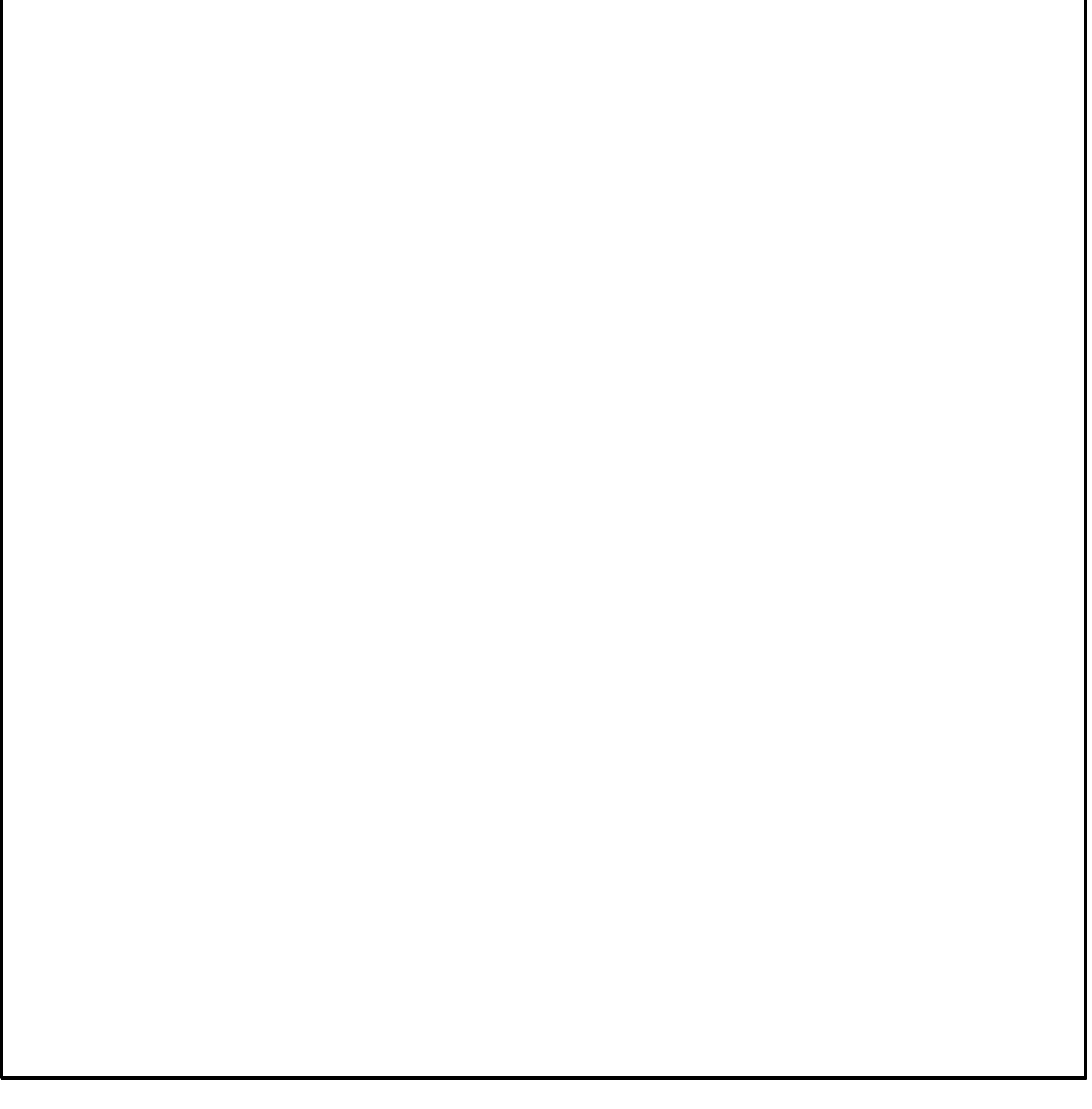
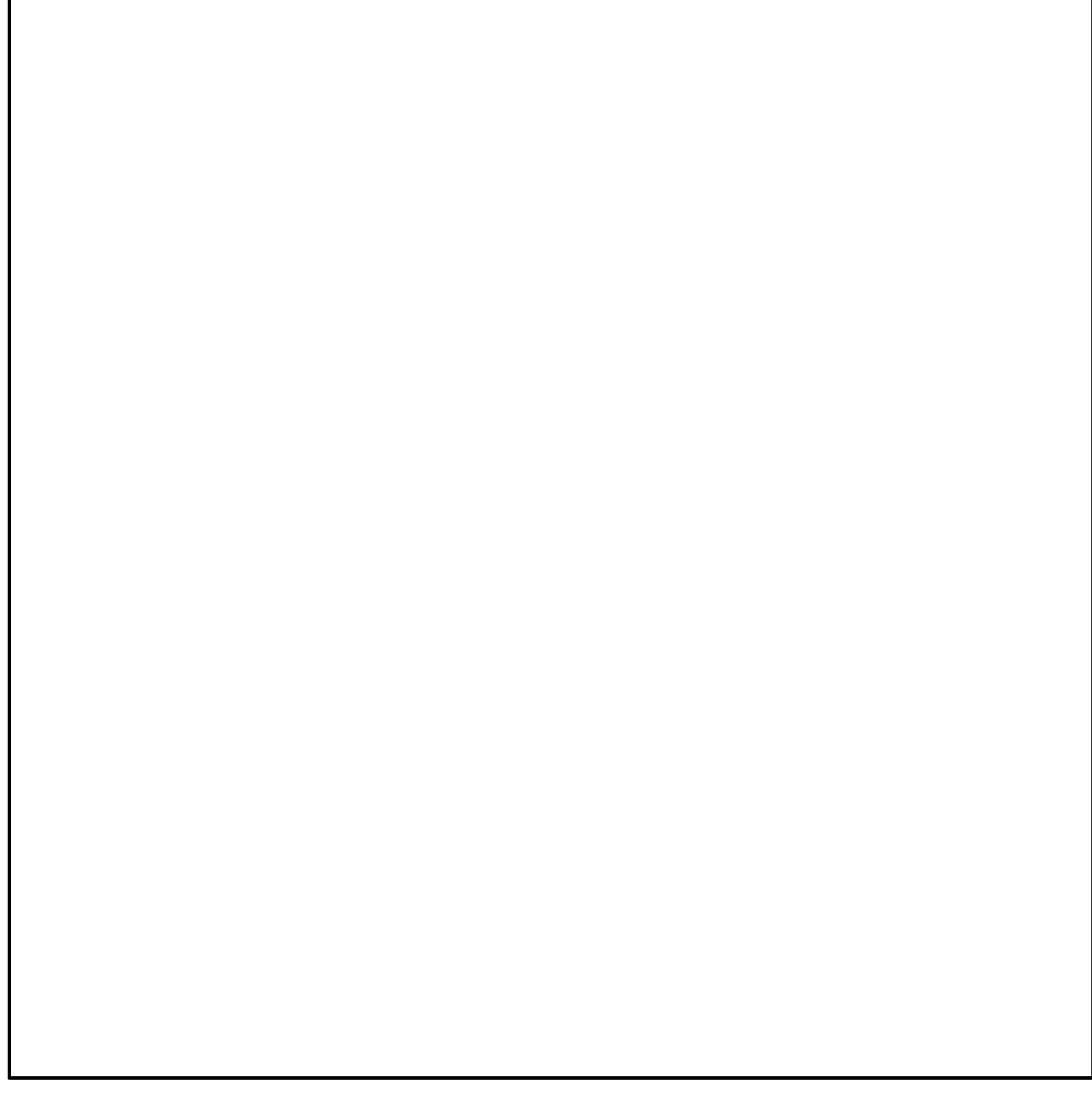
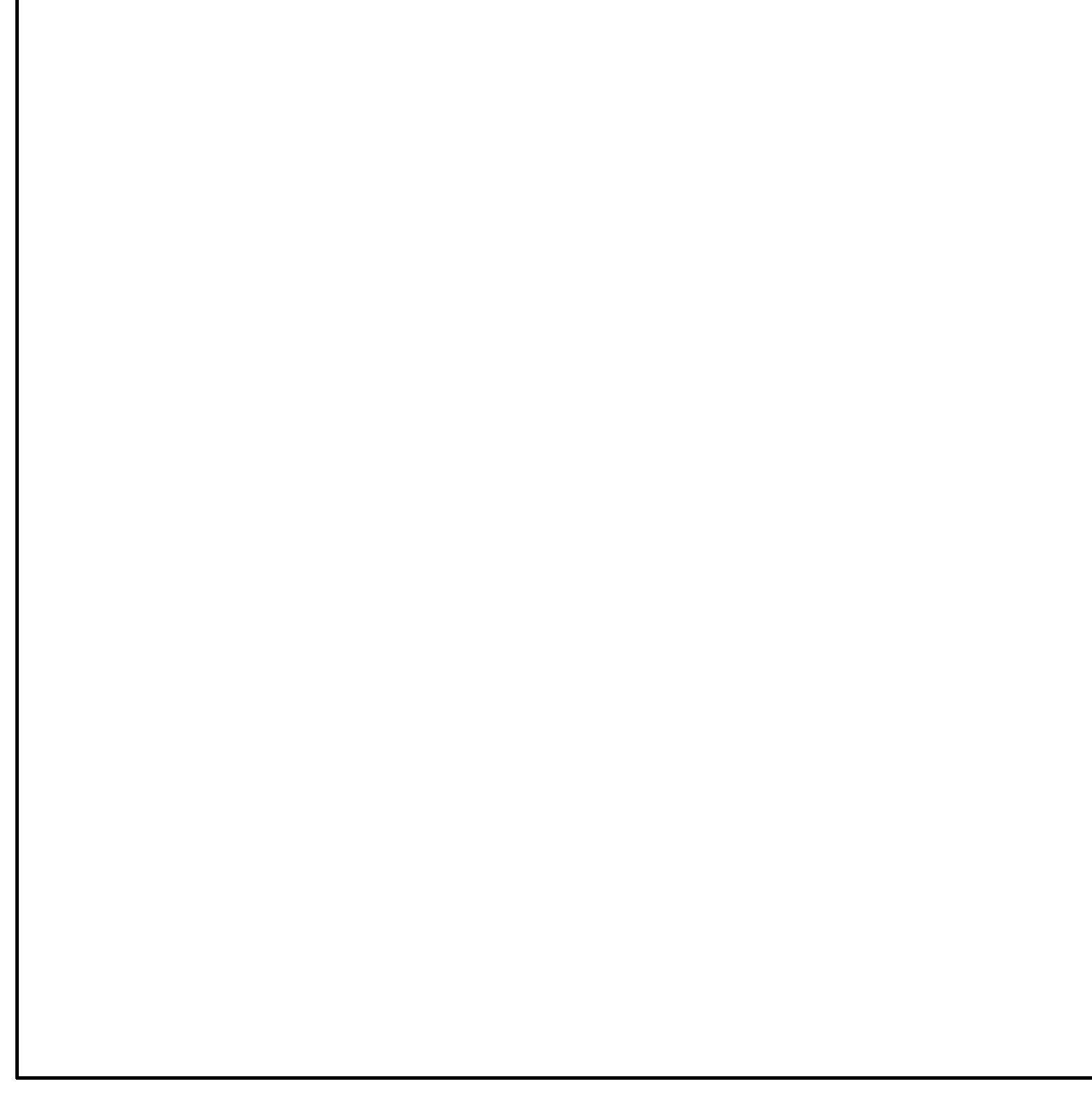
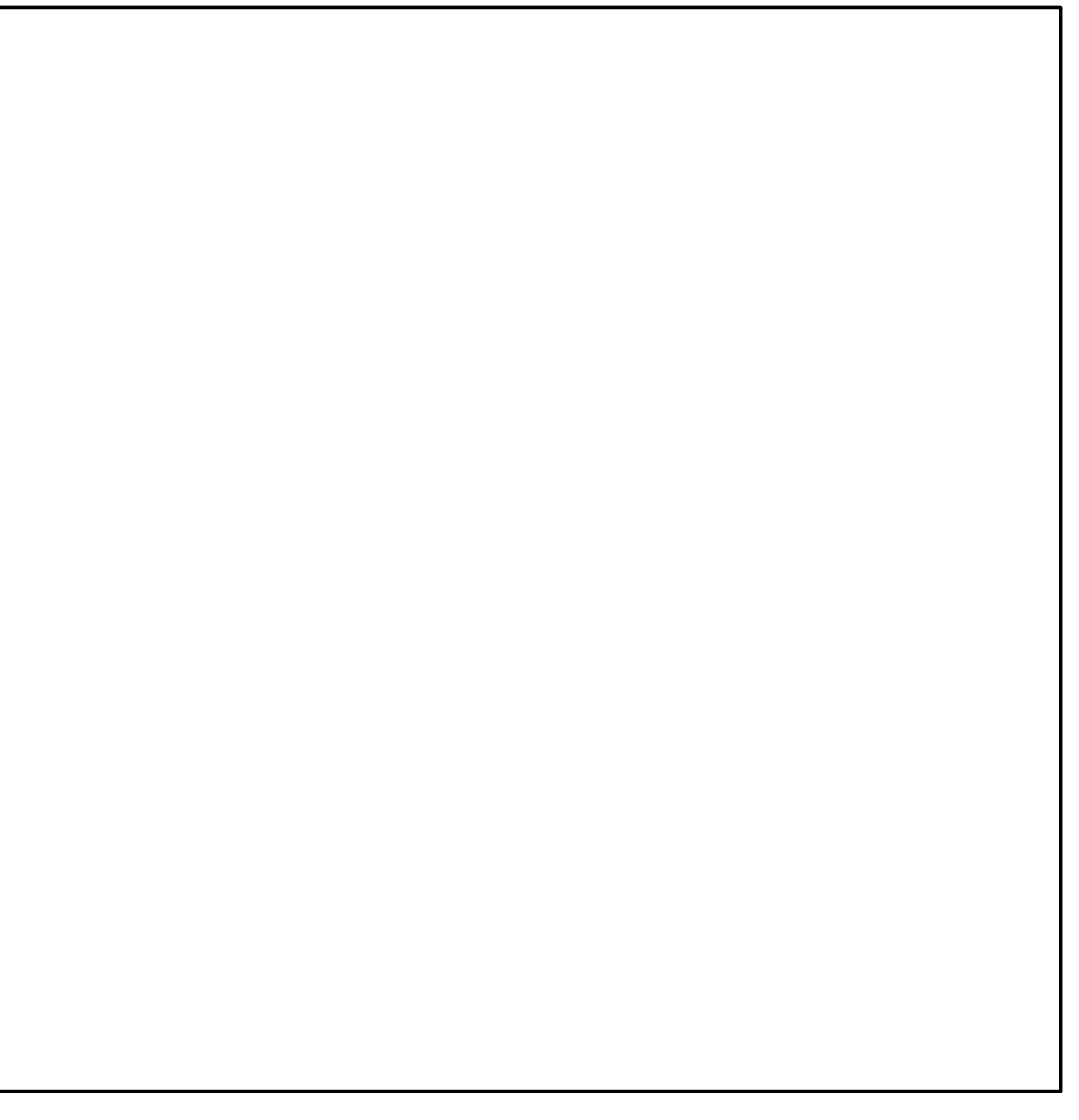
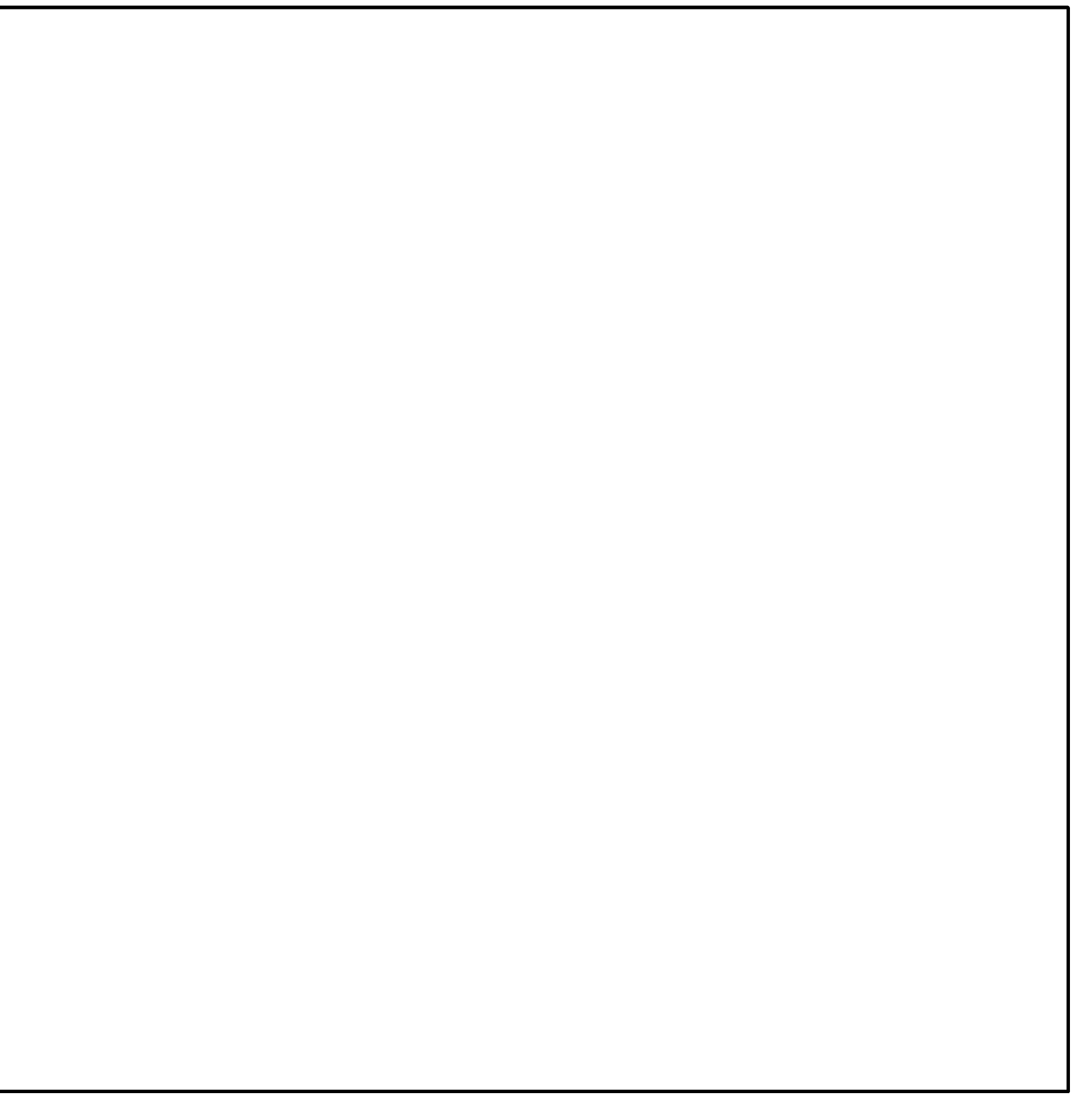
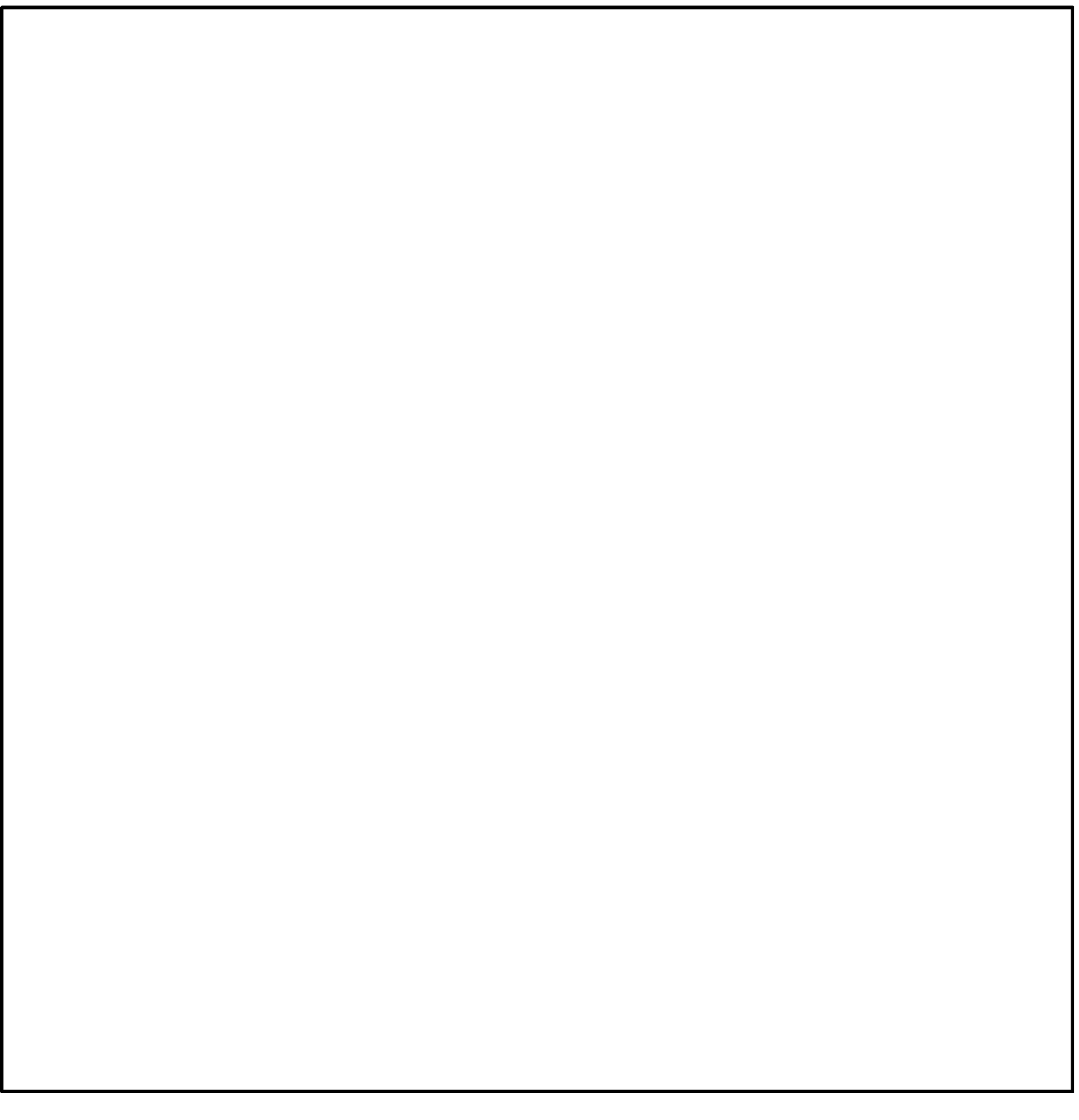
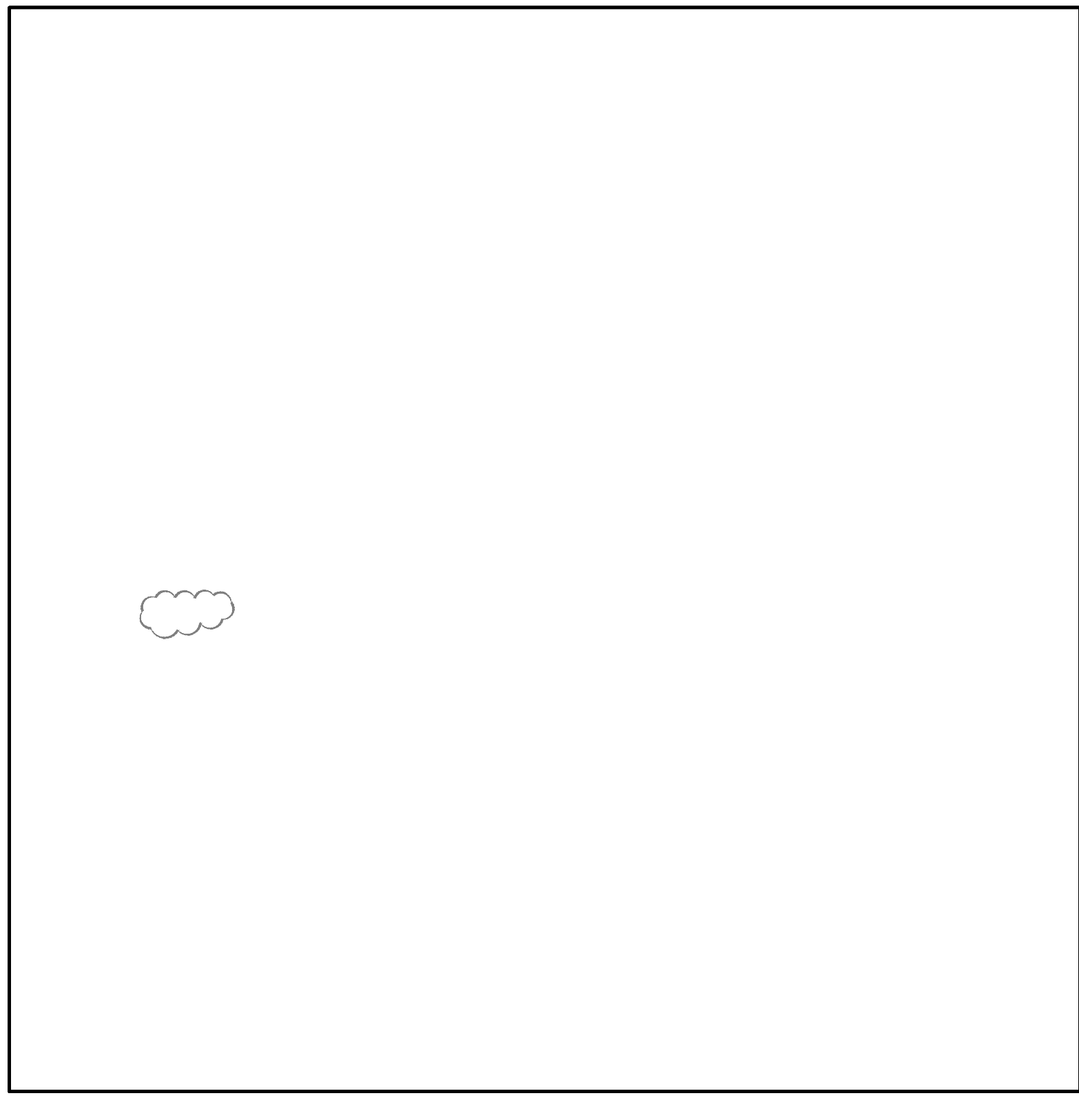
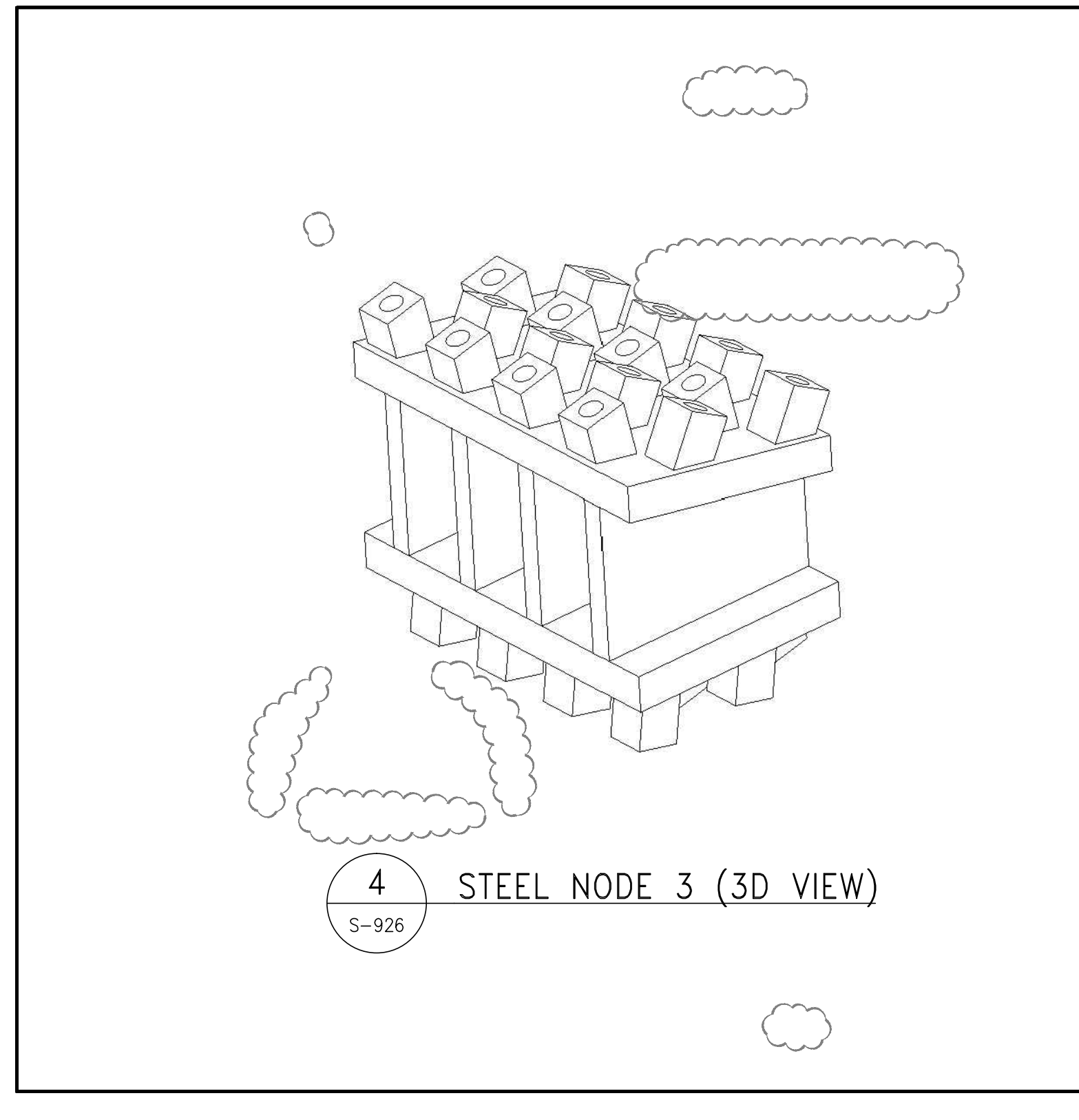
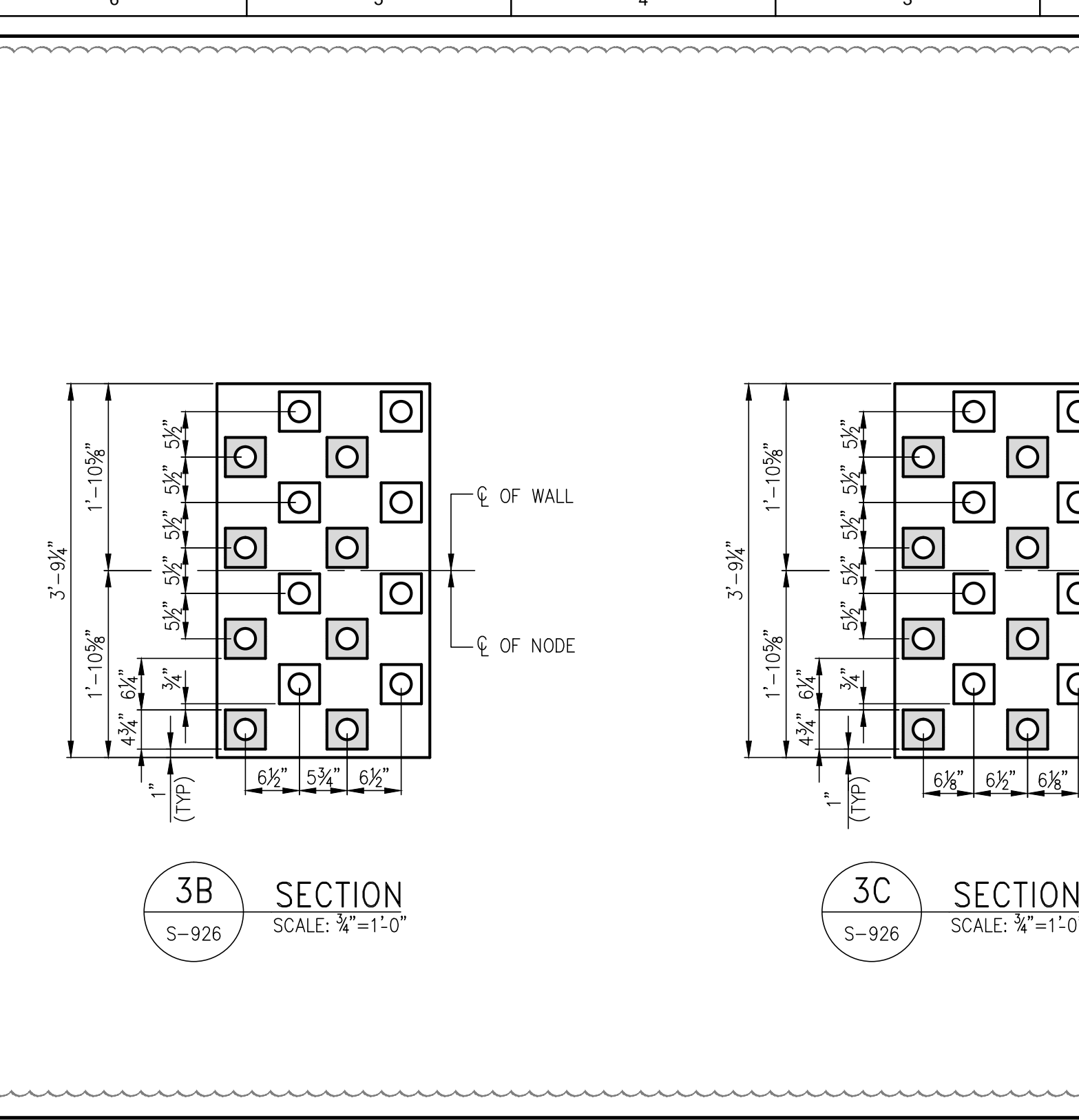
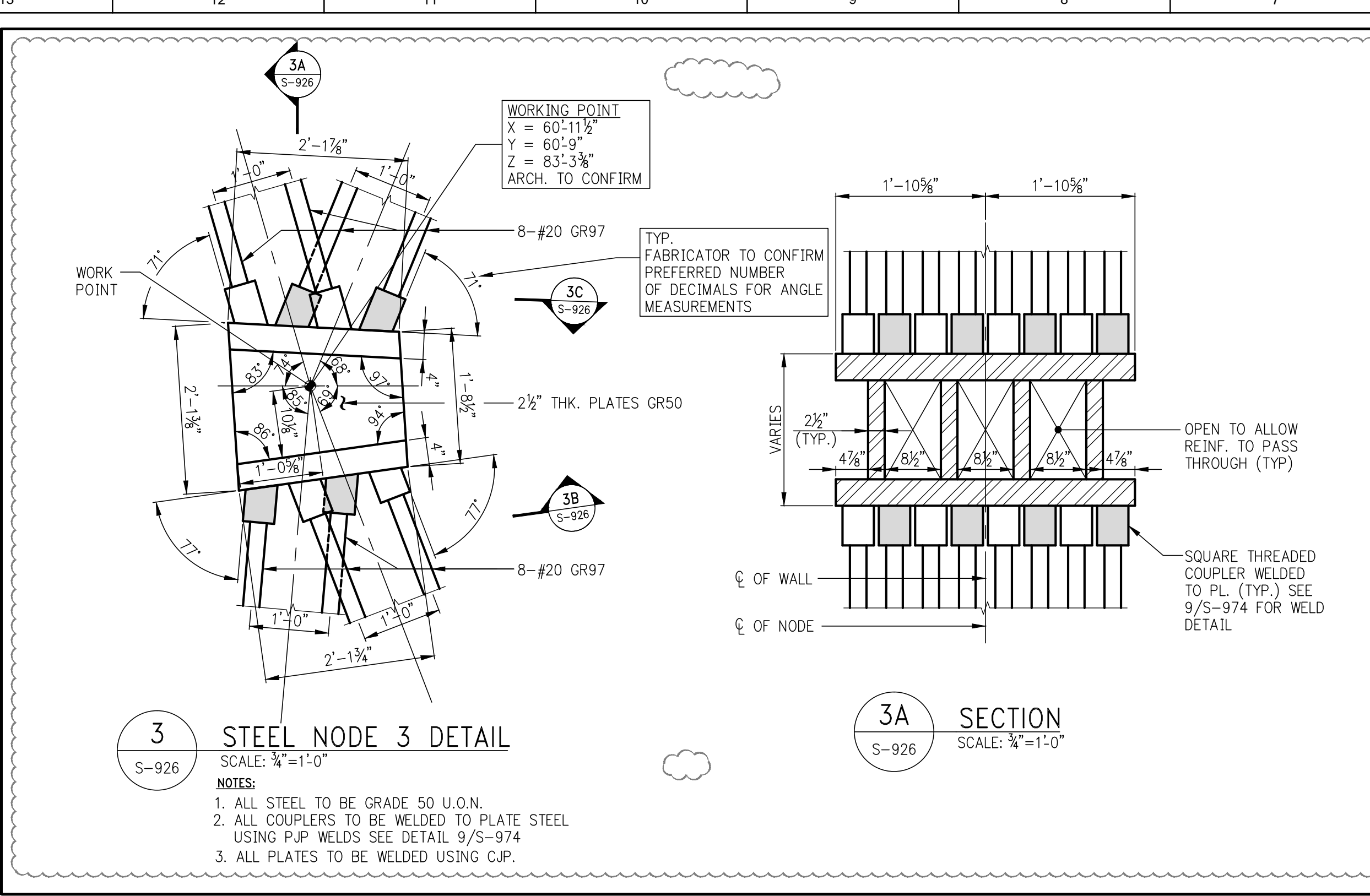
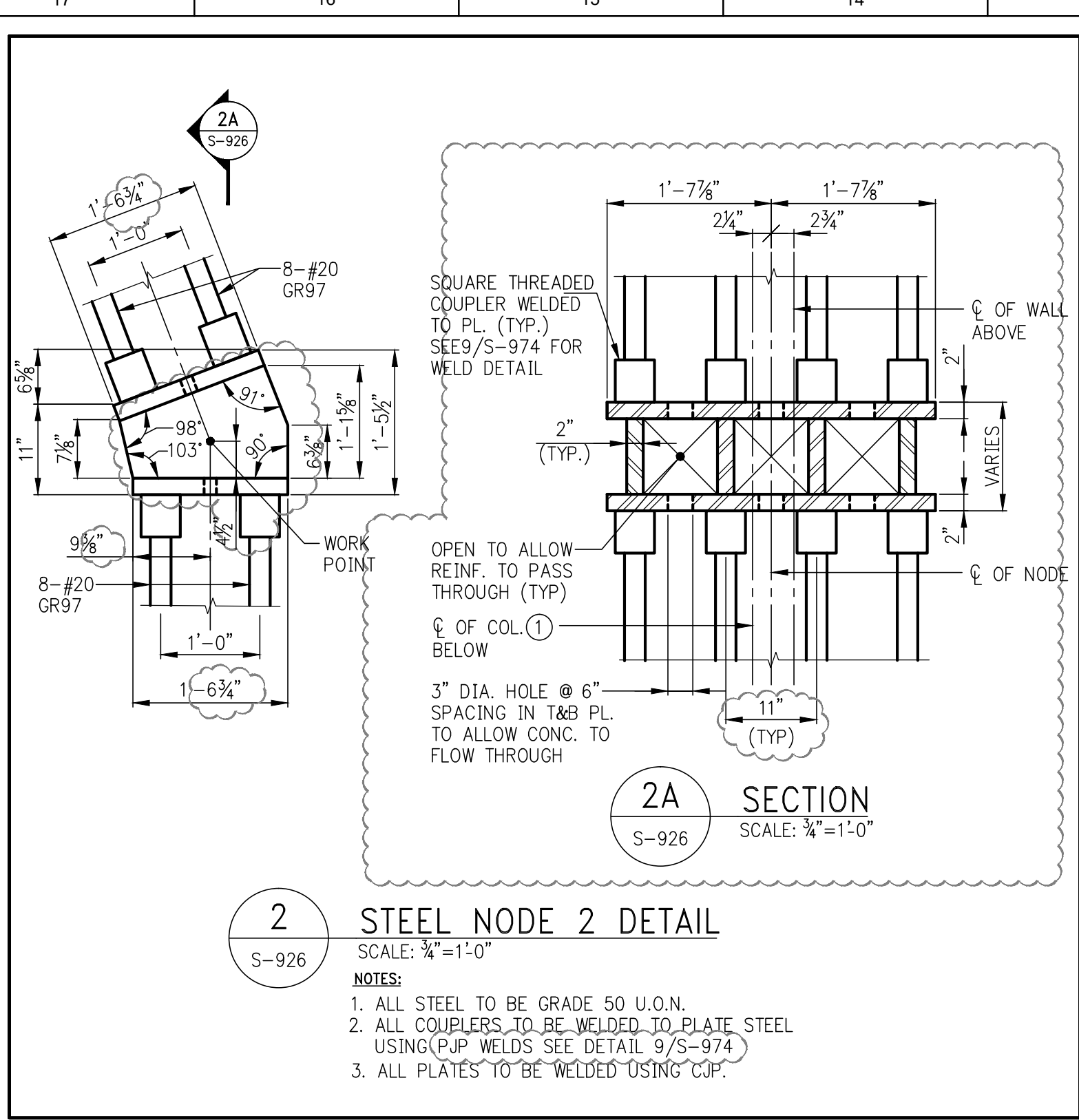
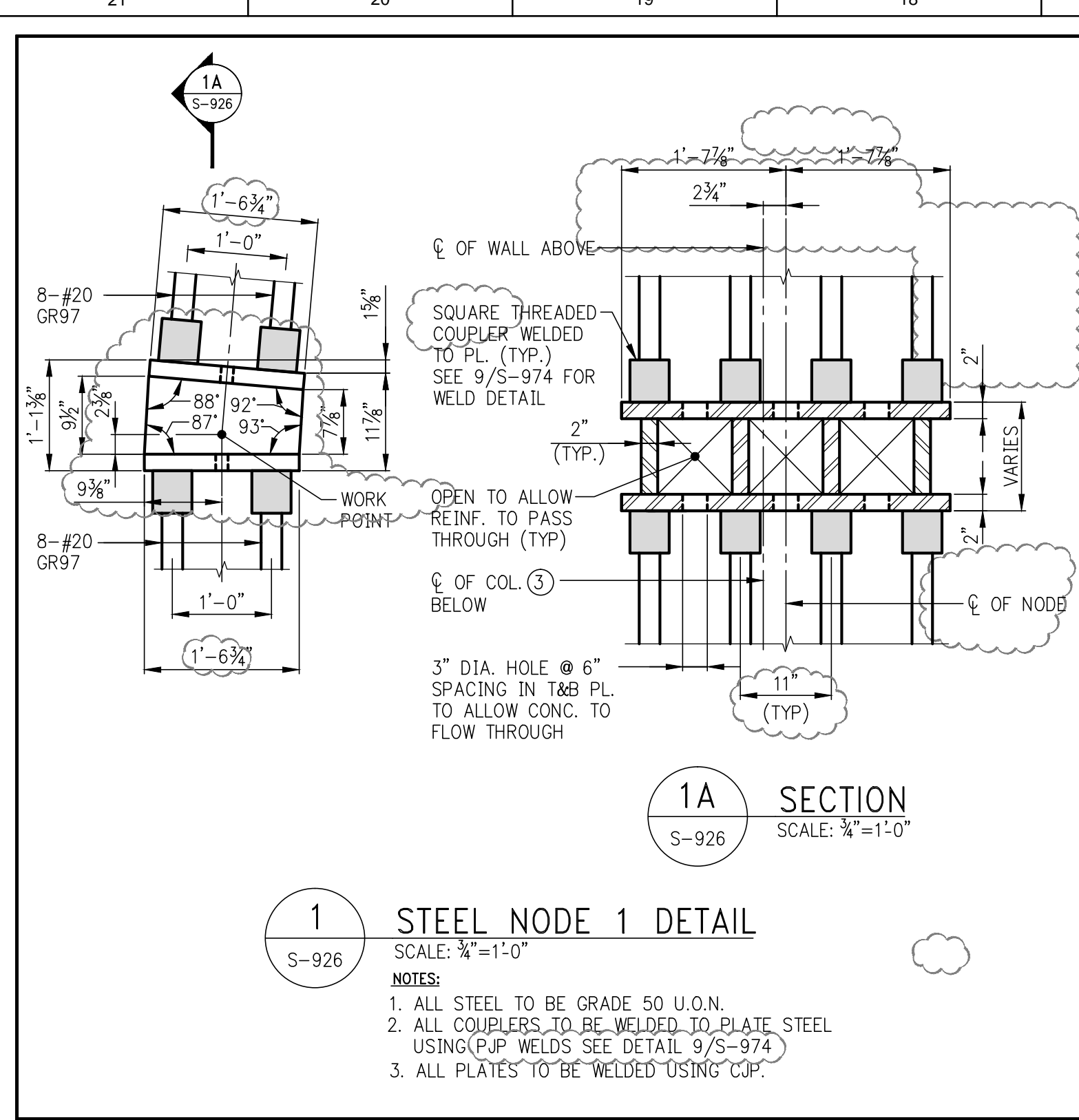
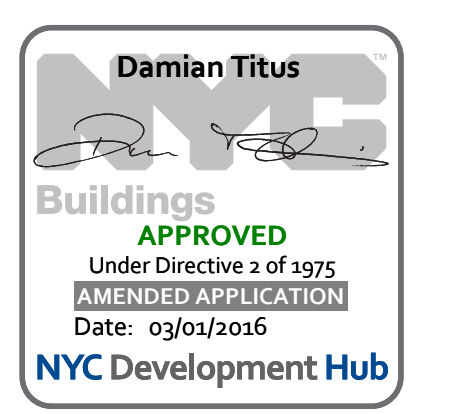
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2016-01-26

DRAWING SCALE:

PROJECT NUMBER:
2012068

TITLE:
NODE DETAILS

DRAWING NO.:
S-926.01



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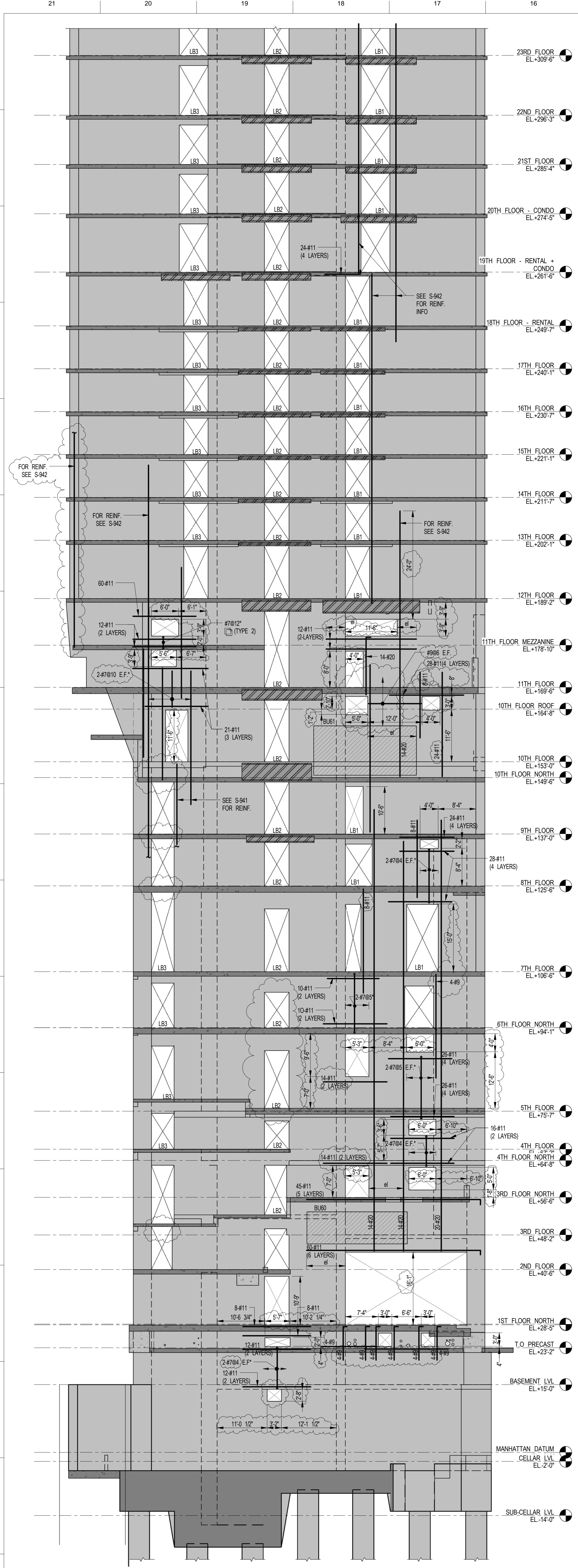
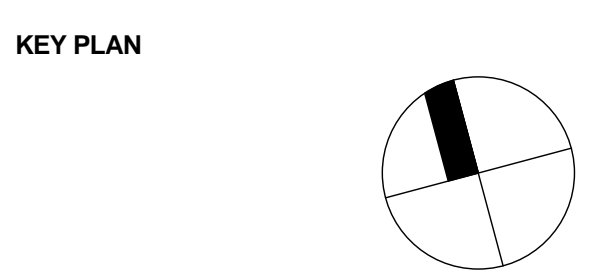
LANDSCAPE DESIGNER:
Nelson Byrd Wolfe
200 Park Avenue South, Suite 920
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SHEET NOTES:

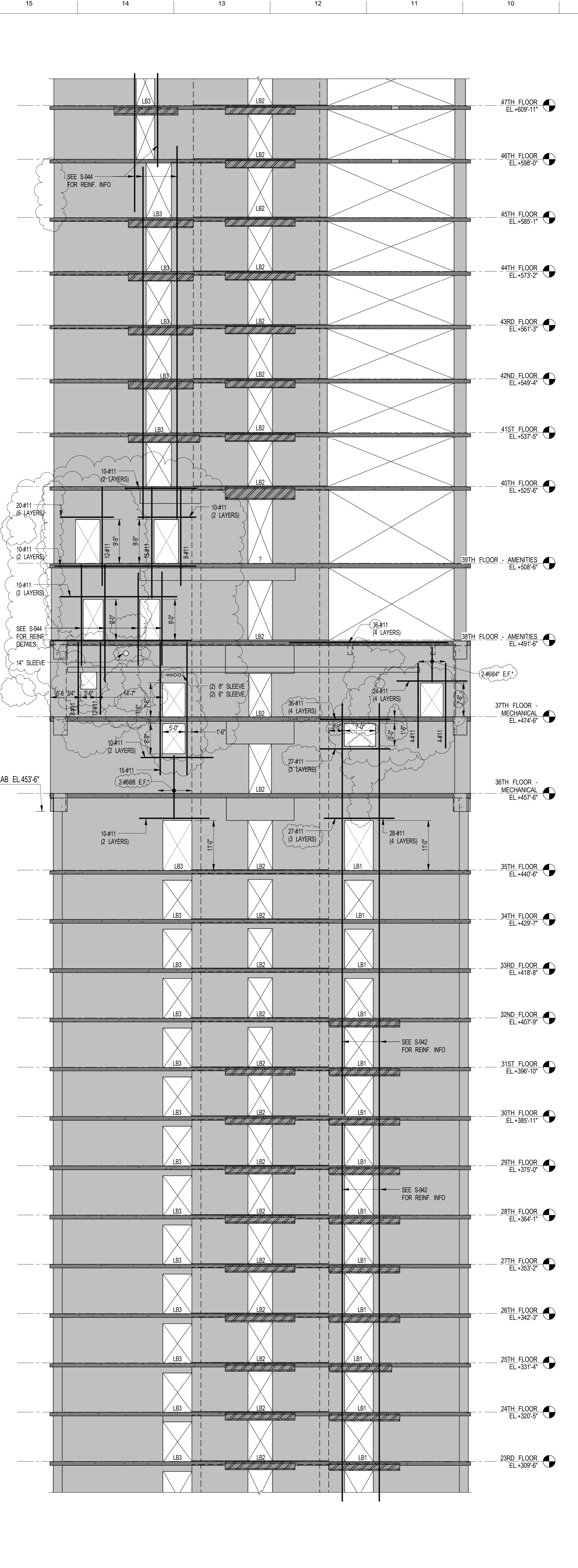
KEY PLAN

NO. ISSUE SET **REV DATE**

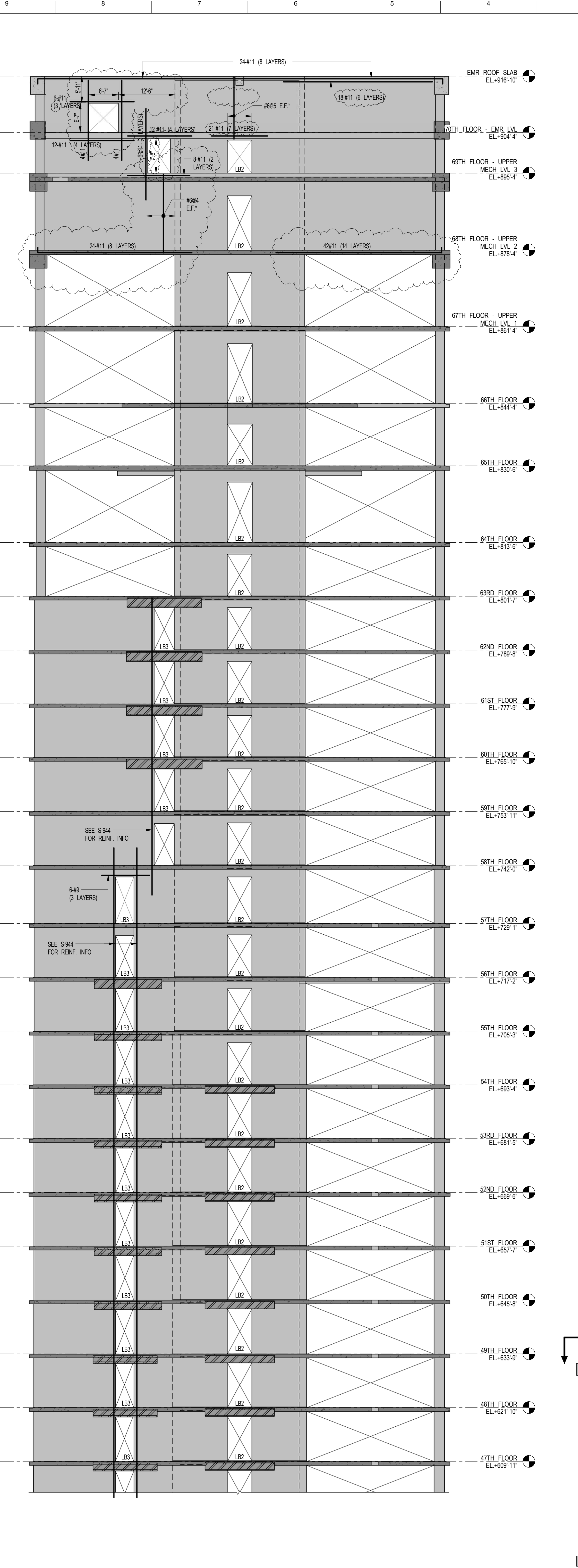
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2	SET		
3	DESIGN DEVELOPMENT SET	2	12-22-14
4	NYCT SUBMISSION	3	12-23-14
5	UPDATED DOB SET	4	01-20-15
6	70% CD	5	04-27-15
7	80% CD	6	07-02-15
8	80% PARTIAL CD ISSUE - FLOORS	7	09-03-15
9	SC-12		
10	95% CD	8	11-24-15
11	PAA #2	9	01-28-16
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1 SHEARWALL 1 ELEVATION (LOOKING SOUTH) 1/3
S-930 SCALE: 3/32" = 1'-0"



2 SHEARWALL 1 ELEVATION (LOOKING SOUTH) 2/3
S-930 SCALE: 3/32" = 1'-0"



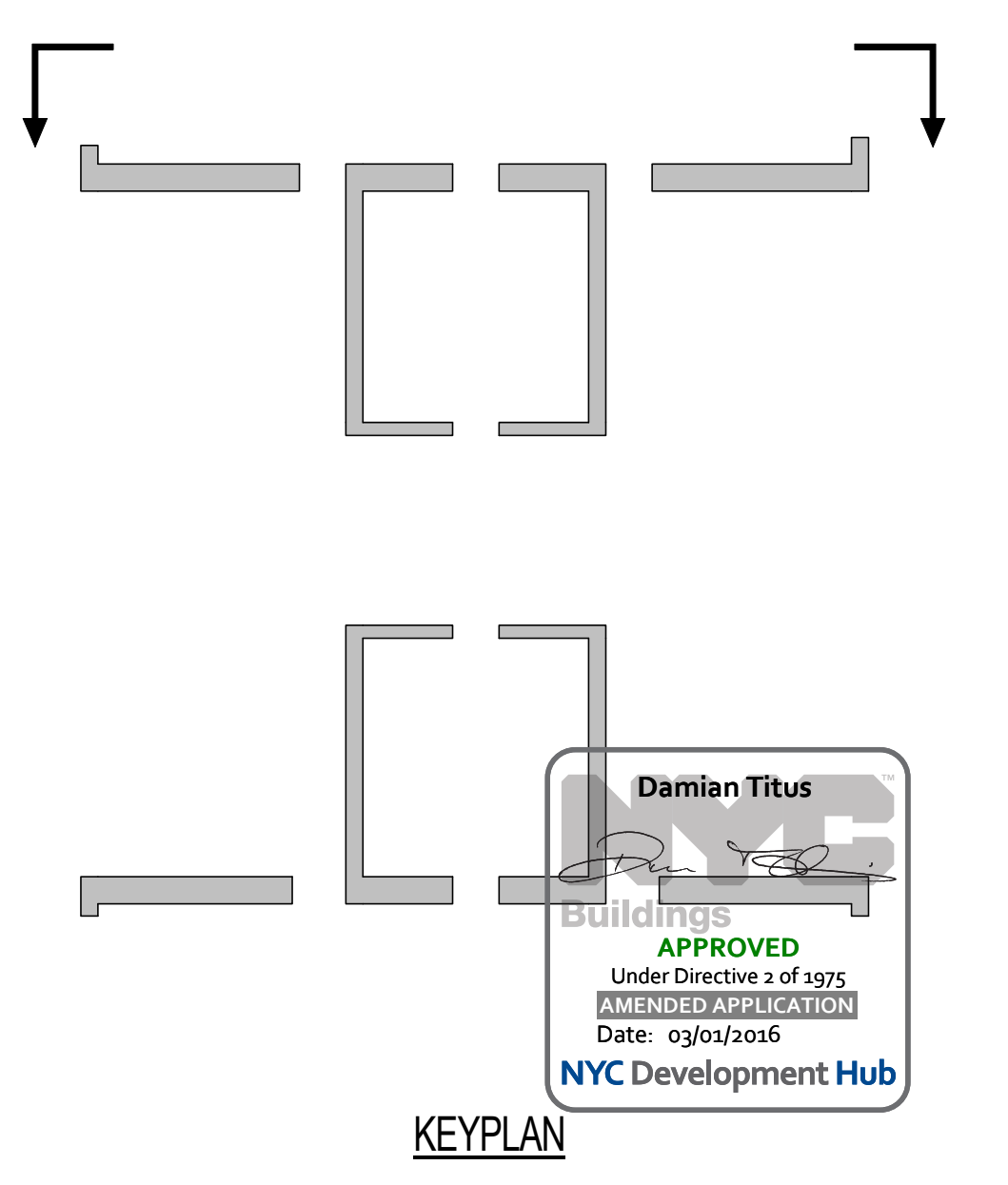
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S-930 SCALE: 3/32" = 1'-0"

KEY:

- INDICATES BUILT-UP EMBEDDED STEEL SECTION
- SEE DRAWING S-947 FOR SCHEDULE AND DETAILS
- BOX

NOTES:

- REINFORCEMENT SHOWN ON SHEARWALL ELEVATIONS IS ADDITIONAL TO REINFORCEMENT SHOWN ON SHEARWALL REINFORCEMENT PLANS (S-940 SERIES DRAWINGS)
- "*" INDICATES REINFORCEMENT SHOWN ON ELEVATION IS TO BE USED IN LIEU OF REINFORCEMENT SHOWN ON PLANS
- SEE DWG. S-938 & S-939 FOR LINK BEAM SCHEDULE
- SEE DWG. S-947 FOR TYPICAL SHEARWALL DETAILS
- FOR STRIP TYPES SEE TYPICAL DETAILS
- "L" INDICATES EMBEDMENT LENGTH DEFINED IN S-939



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DATE OF PRINT:
12/26/2016 7:28:09 PM

DRAWING SCALE:
As indicated

PROJECT NUMBER:
2012058

TITLE:
SHEARWALL ELEVATIONS 1

DRAWING NO.:
S-930.01

15 HUDSON YARDS
a.k.a. 553 W 30TH STREET,
NEW YORK, NY.

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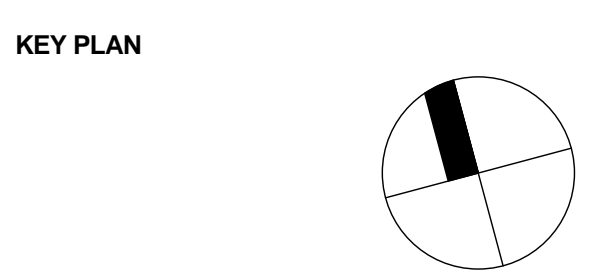
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SHEET NOTES:

NO	ISSUE SET	REV DATE
1	SUPERSTRUCTURE EARLY BID	11-17-14
2	SET	
3	DESIGN DEVELOPMENT SET	2-12-20-14
4	NYCT SUBMISSION	3-12-23-14
5	UPDATED DOB SET	4-01-20-15
6	70% CD	5-04-27-15
7	80% CD	6-07-02-15
8	80% PARTIAL CD ISSUE - FLOORS	7-09-03-15
9	SC-12	
10	95% CD	8-11-24-15
11	PAA #2	9-01-26-16
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NO	ISSUE SET	REV DATE
1	SUPERSTRUCTURE EARLY BID	11-17-14
2	SET	
3	DESIGN DEVELOPMENT SET	2-12-20-14
4	NYCT SUBMISSION	3-12-23-14
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6	70% CD	5-04-27-15
7	80% CD	6-07-02-15
8	80% PARTIAL CD ISSUE - FLOORS	7-09-03-15
9	SC-12	
10	95% CD	8-11-24-15
11	PAA #2	9-01-26-16
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NOTES:
1. SEE DRAWING S-300 FOR NOTES AND LEGEND.
2. FOR WALL THICKNESS SEE PLAN.



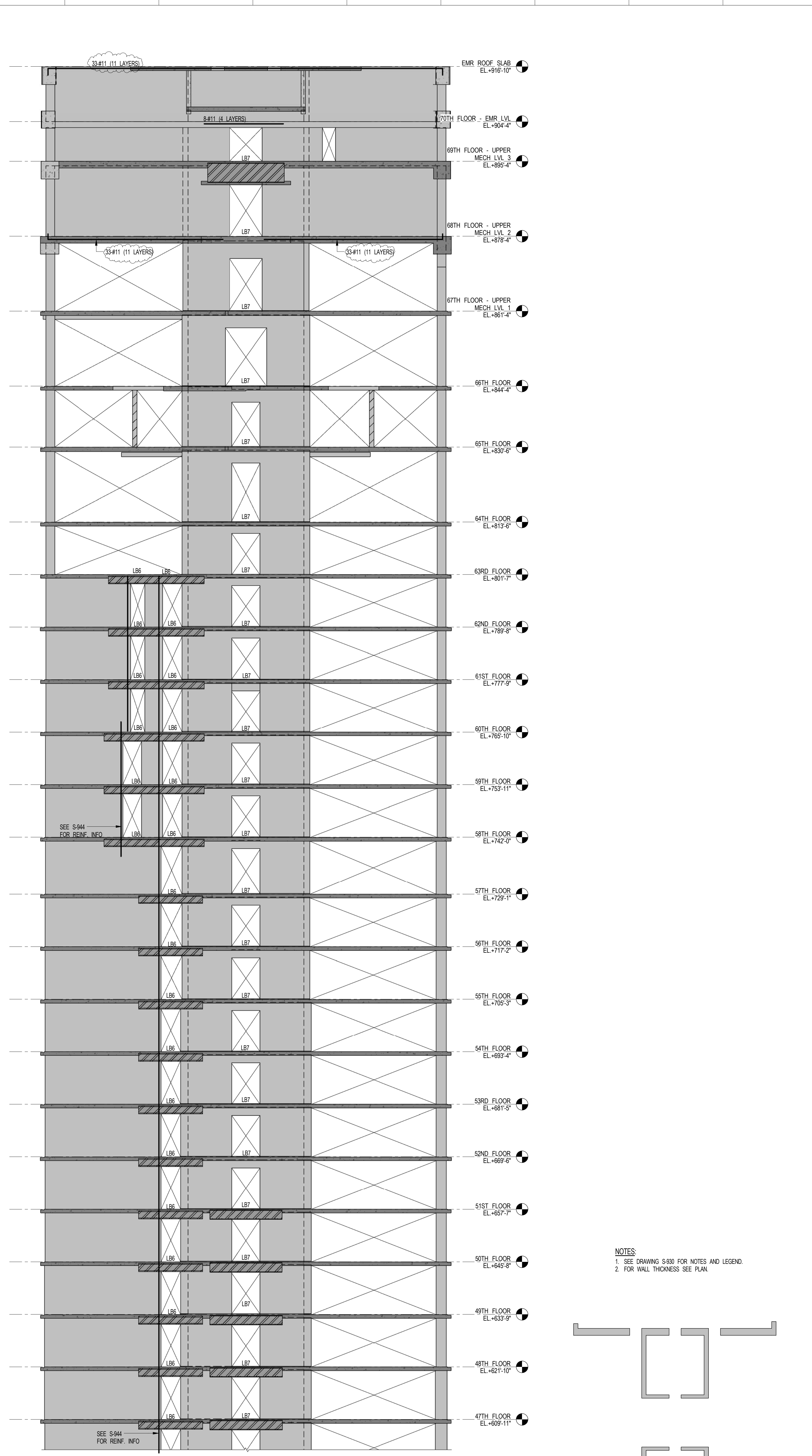
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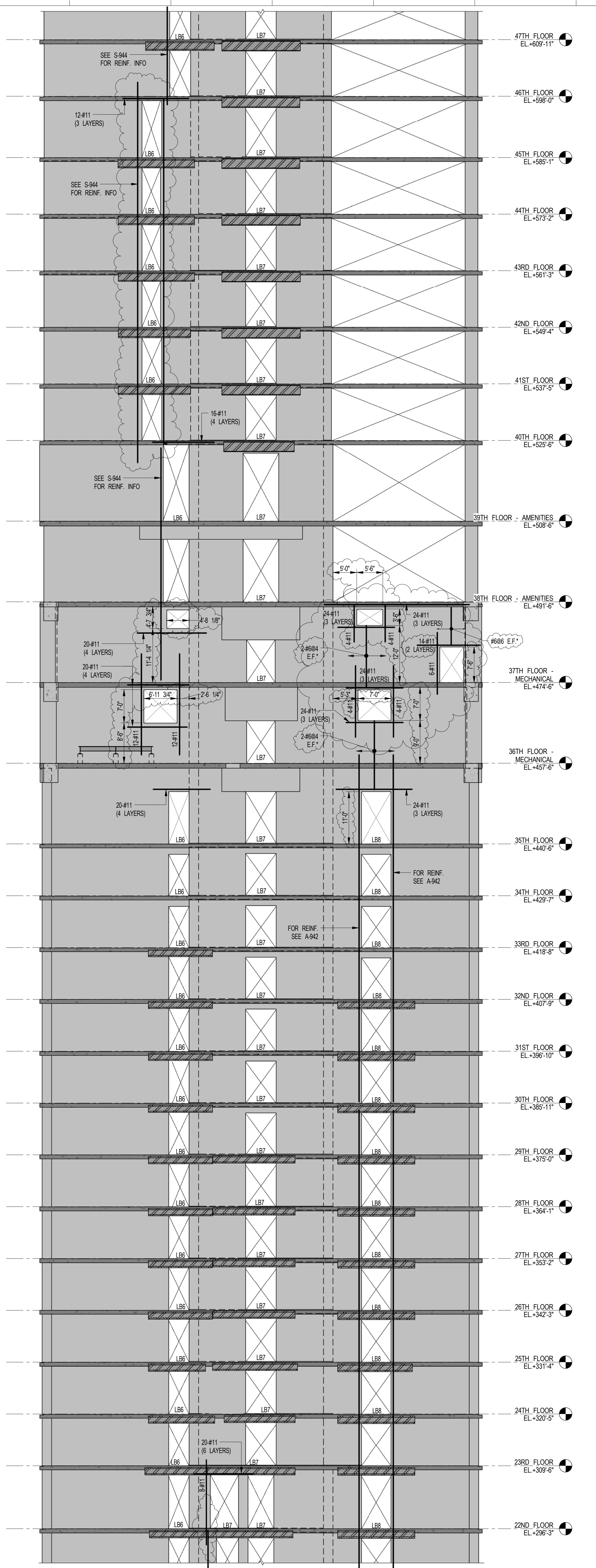
PROJECT NUMBER:
2012058

TITLE:
SHEARWALL ELEVATIONS 2

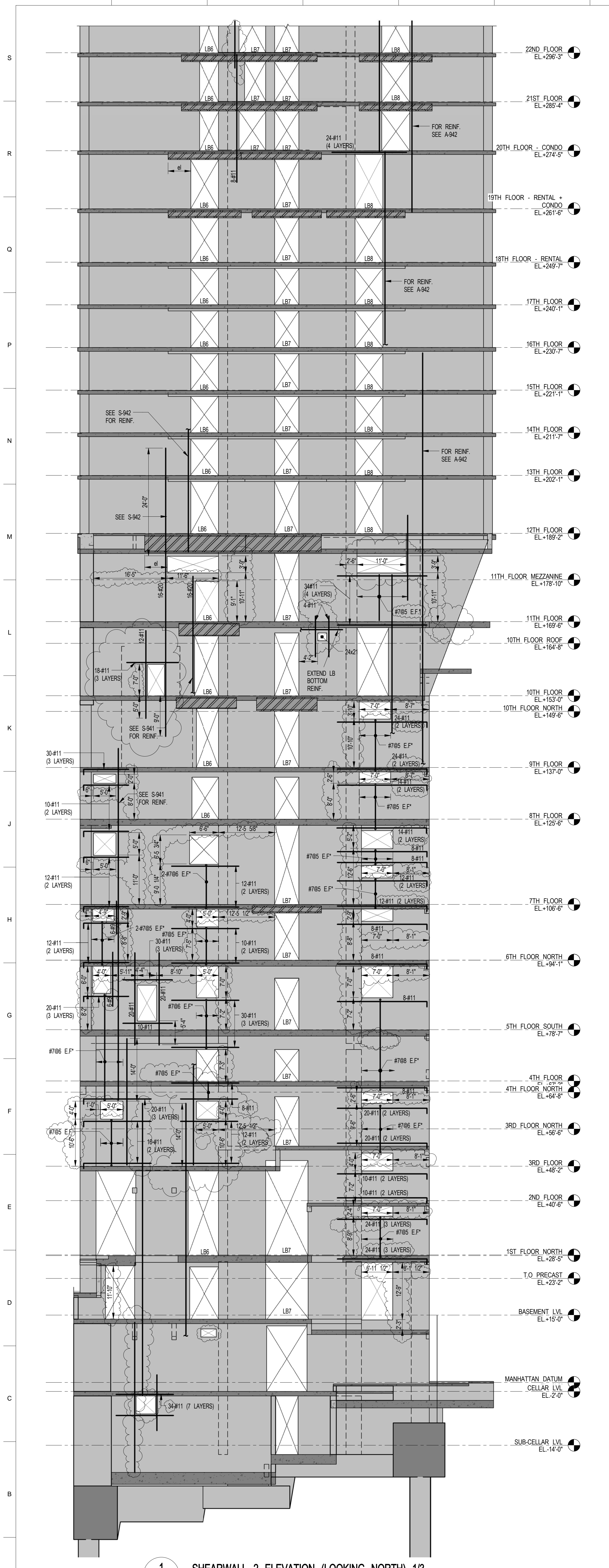
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S-931.01



3 SHEARWALL 2 ELEVATION (LOOKING NORTH) 1/3
S-931 SCALE: 3/32" = 1'-0"



2 SHEARWALL 2 ELEVATION (LOOKING NORTH) 2/3
S-931 SCALE: 3/32" = 1'-0"



1 SHEARWALL 2 ELEVATION (LOOKING NORTH) 1/3
S-931 SCALE: 3/32" = 1'-0"

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DESIGNER:
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KEY PLAN




NO. ISSUE SET REV DATE

1	SUPERSTRUCTURE EARLY BID	1	11-17-14
2	SET		
3	DESIGN DEVELOPMENT SET	2	12-22-14
4	NYCT SUBMISSION	3	12-23-14
5	UPDATED DOB SET	4	01-20-15
6	70% CD	5	04-27-15
7	85% CD	6	07-02-15
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9	PAA #2	8	01-26-16
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NOTES:
1. SEE DRAWING S-900 FOR NOTES AND LEGEND.
2. FOR WALL THICKNESS SEE PLAN.

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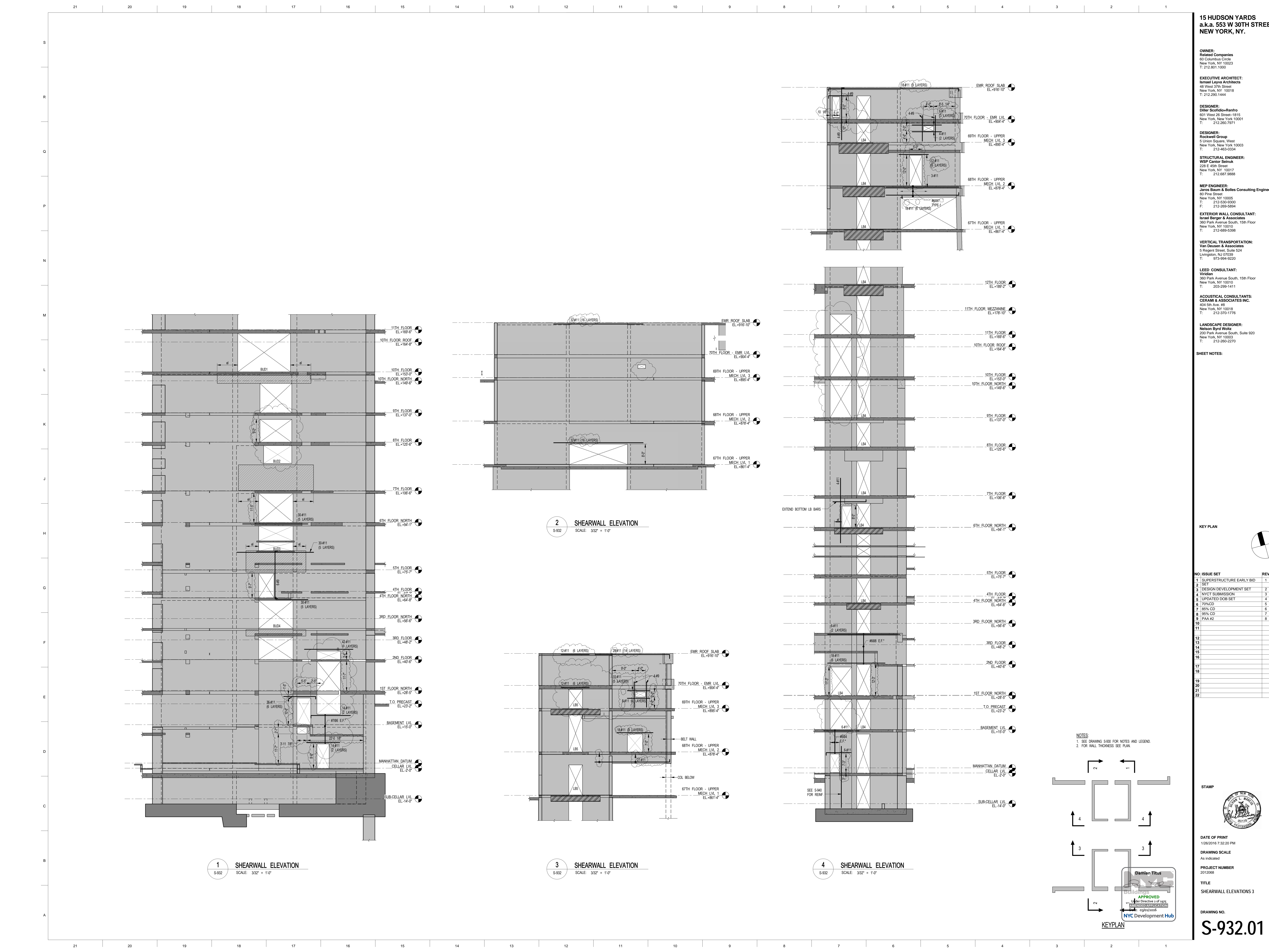
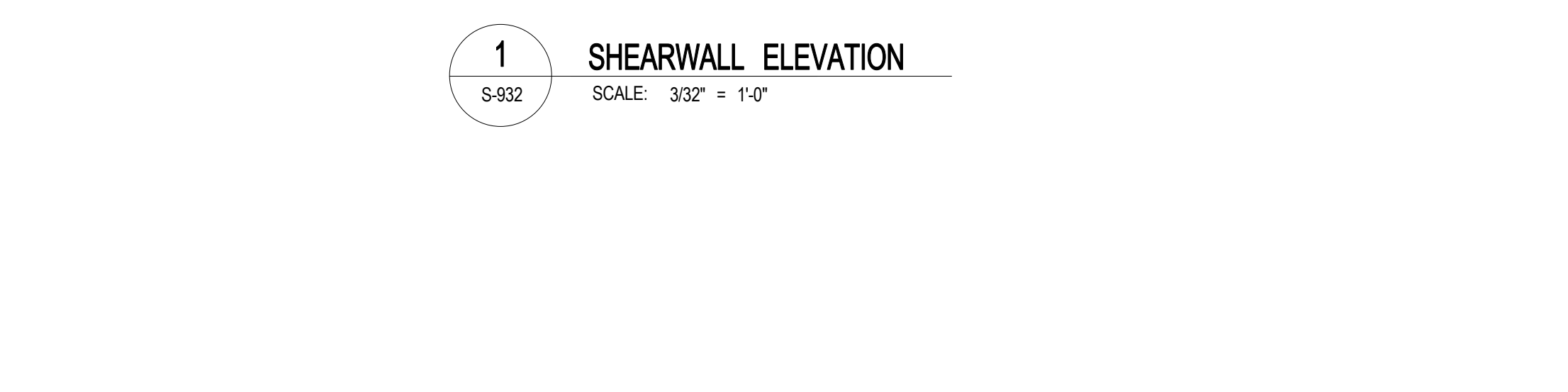
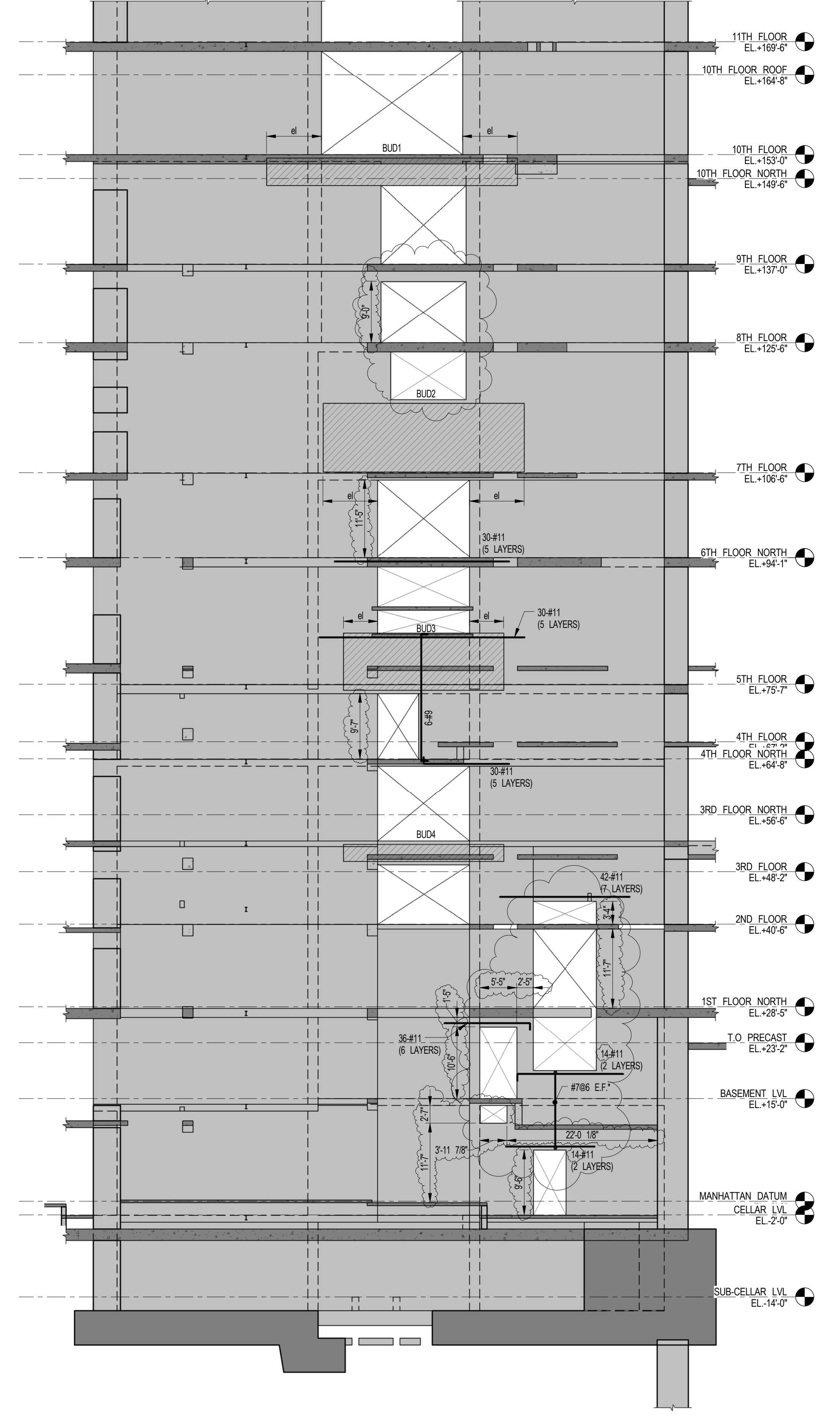
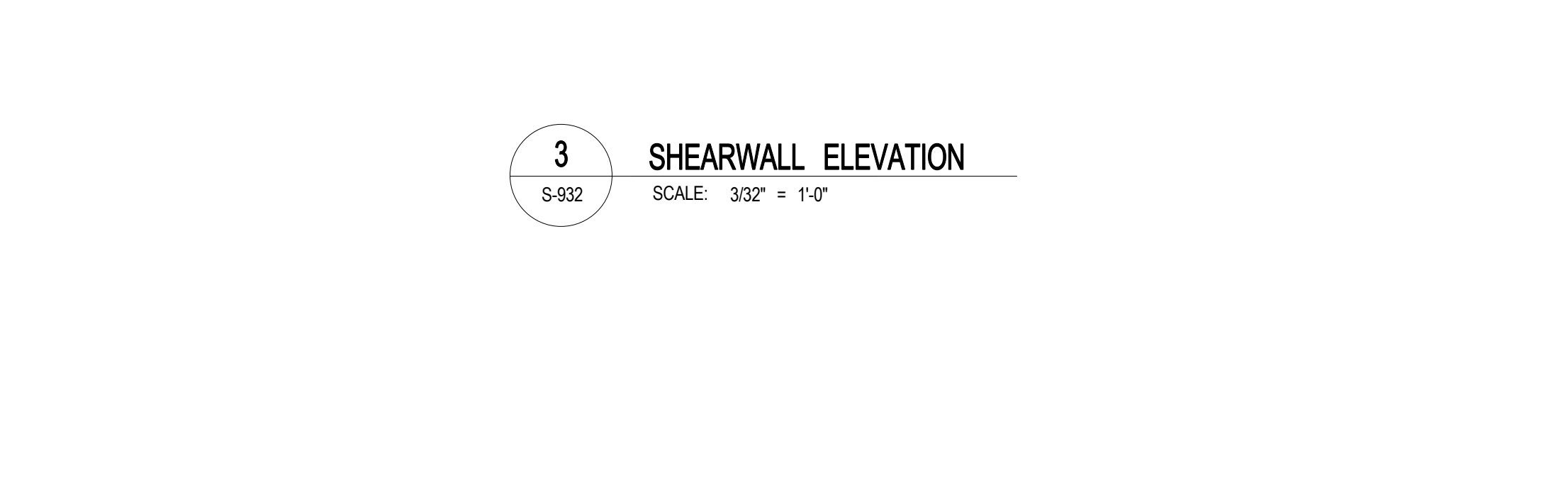
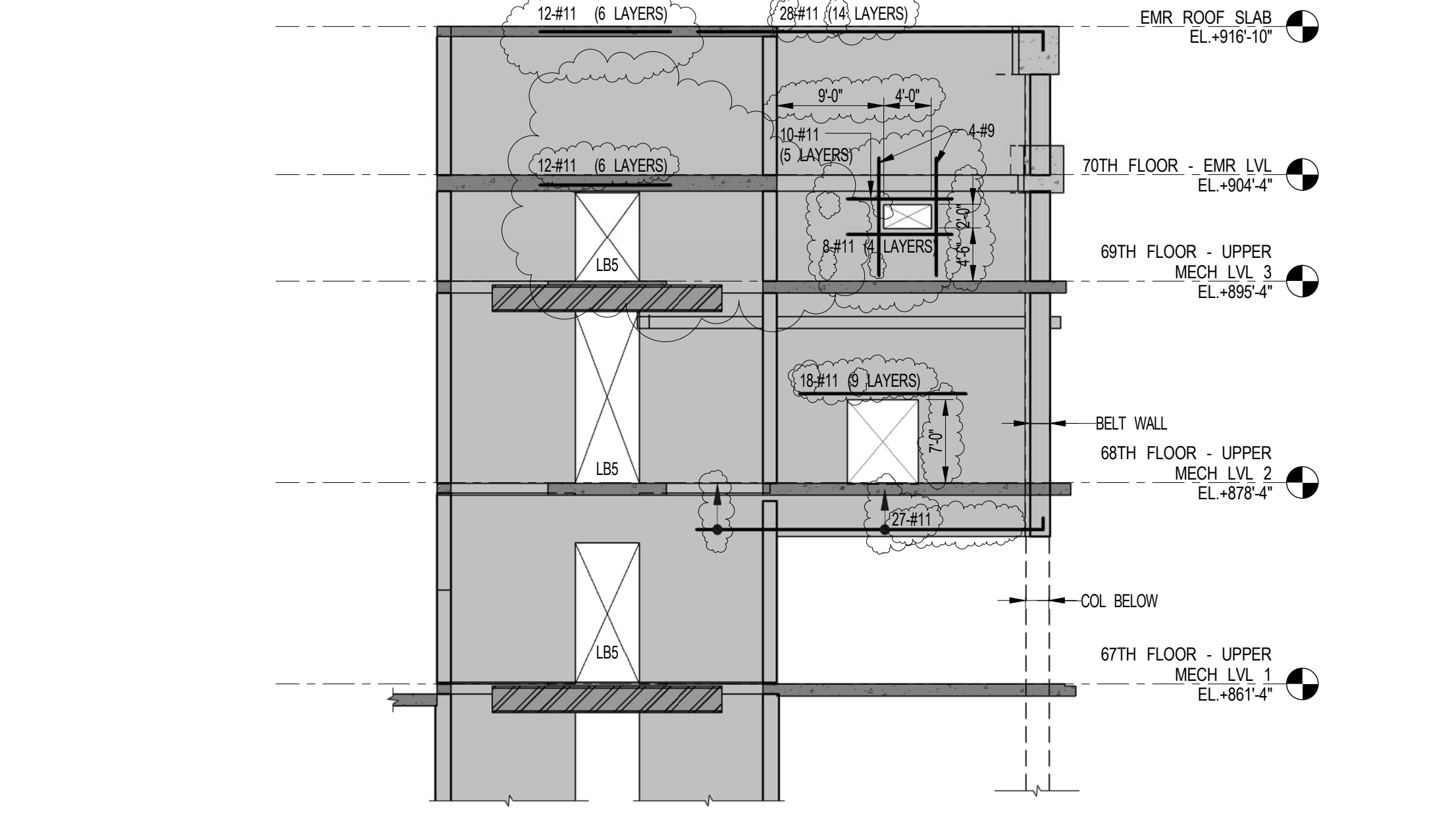
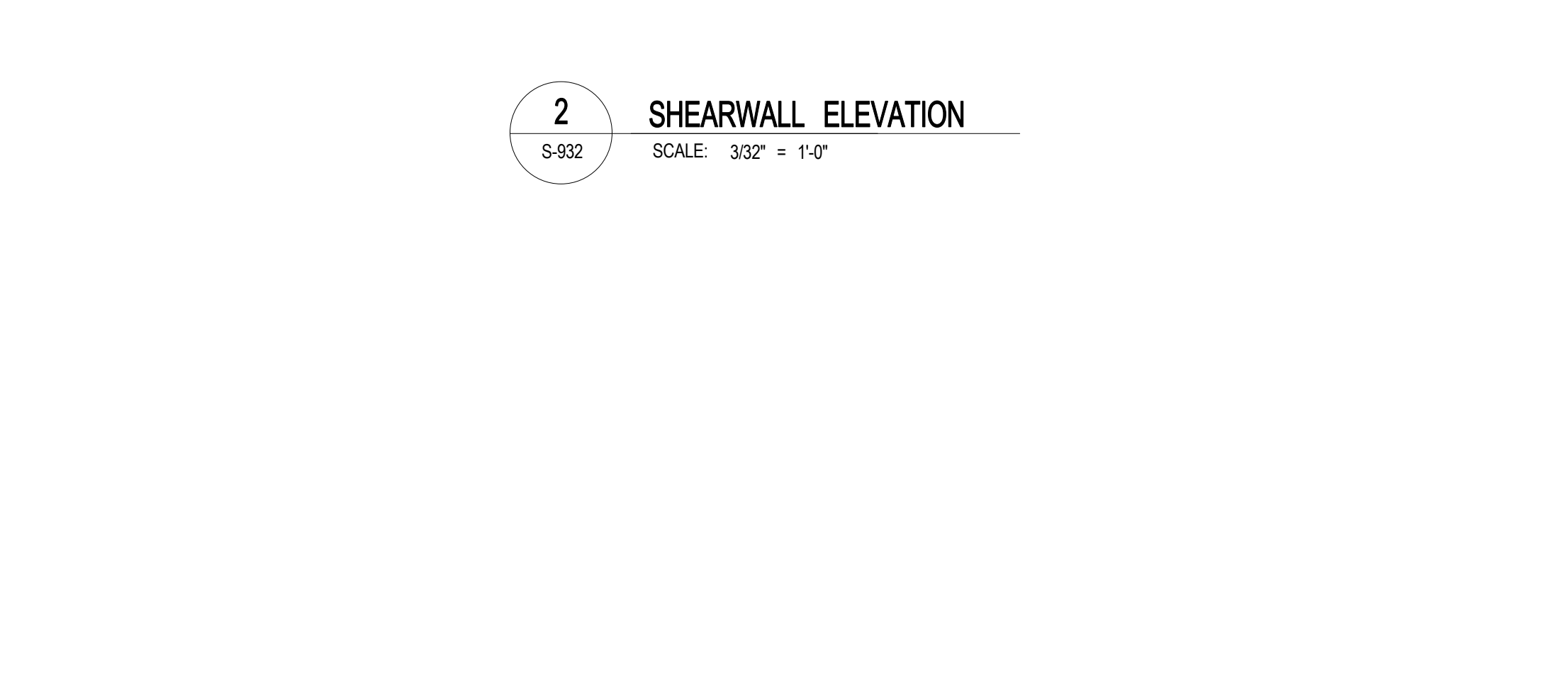
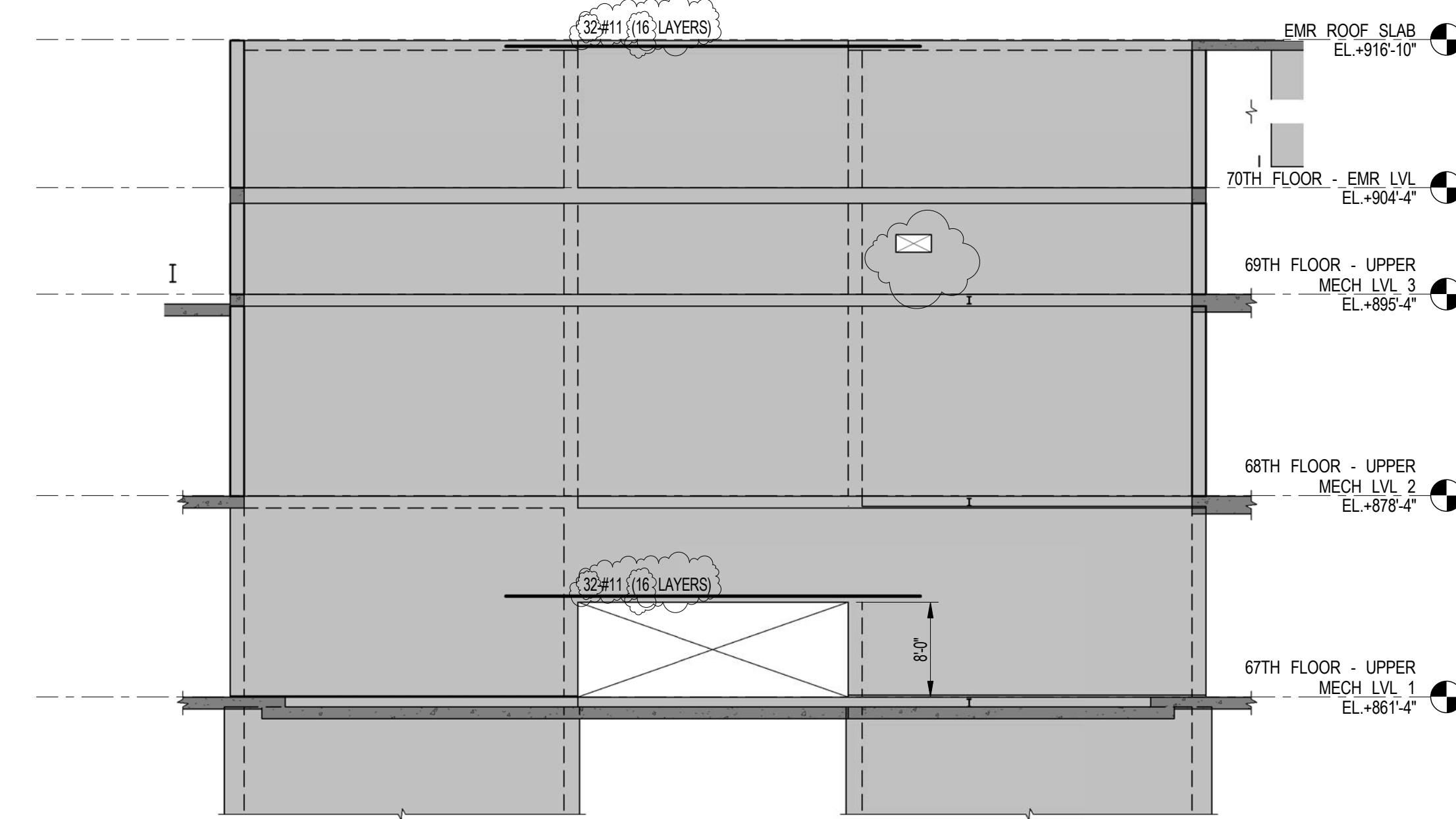
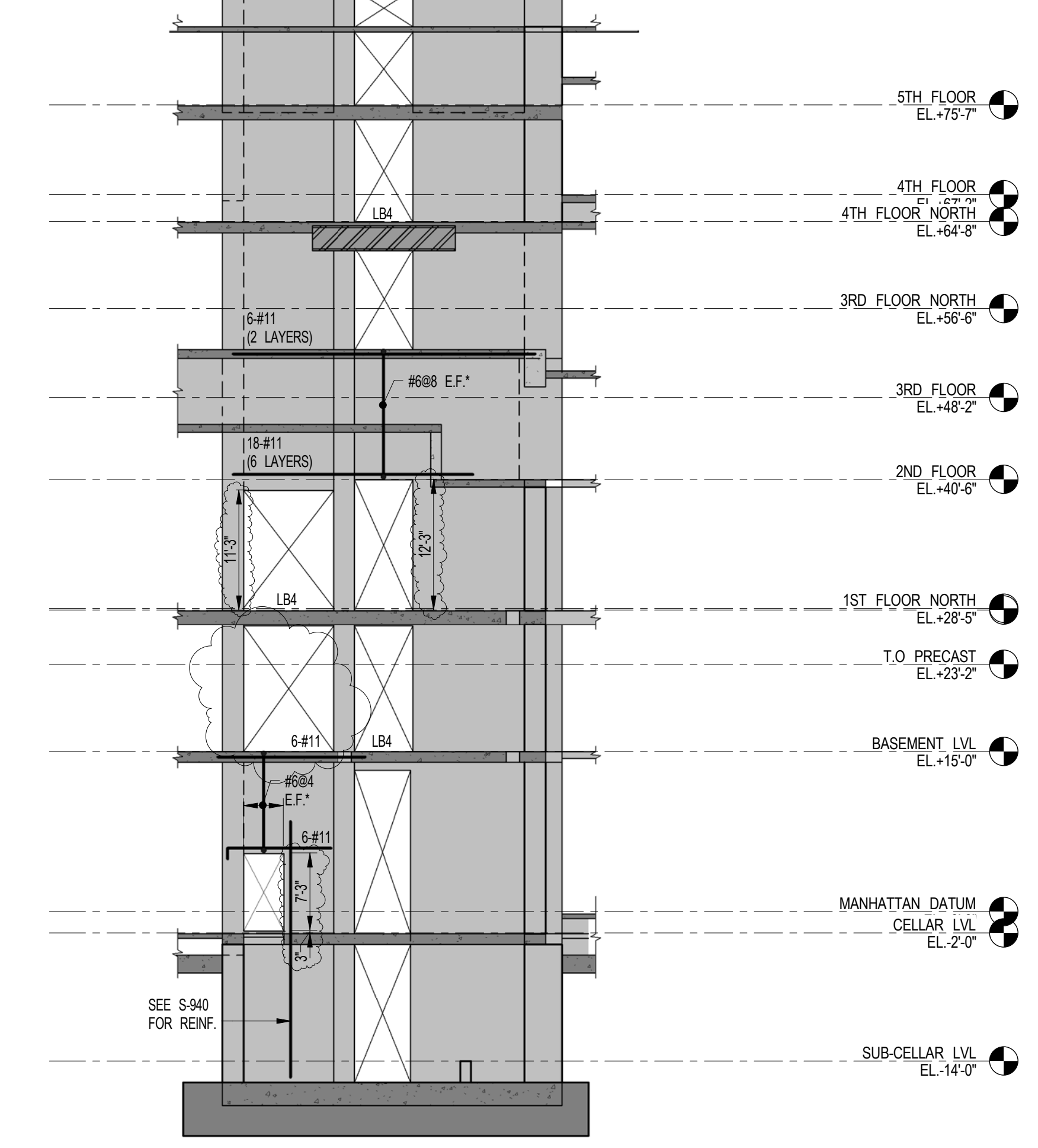
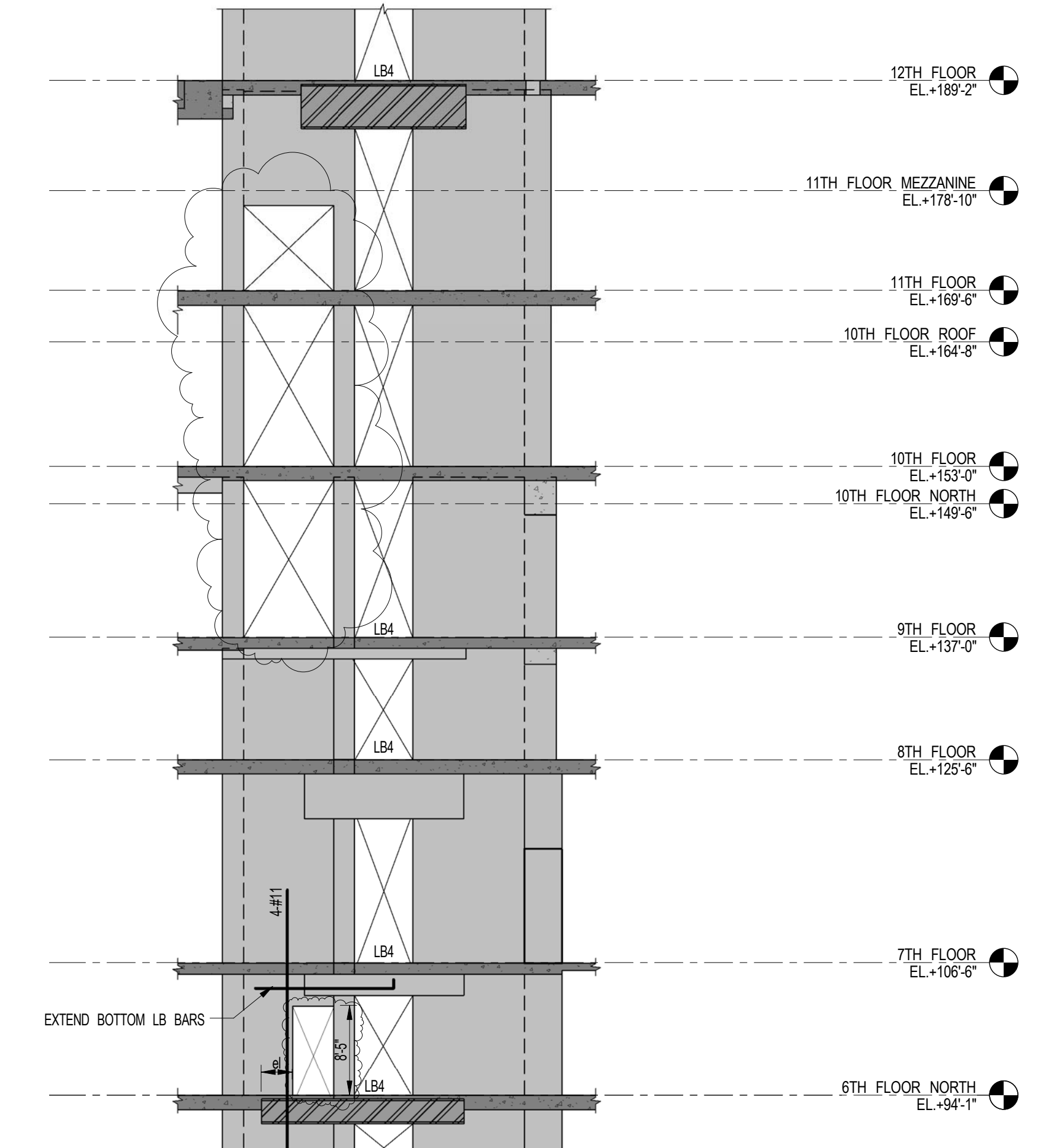
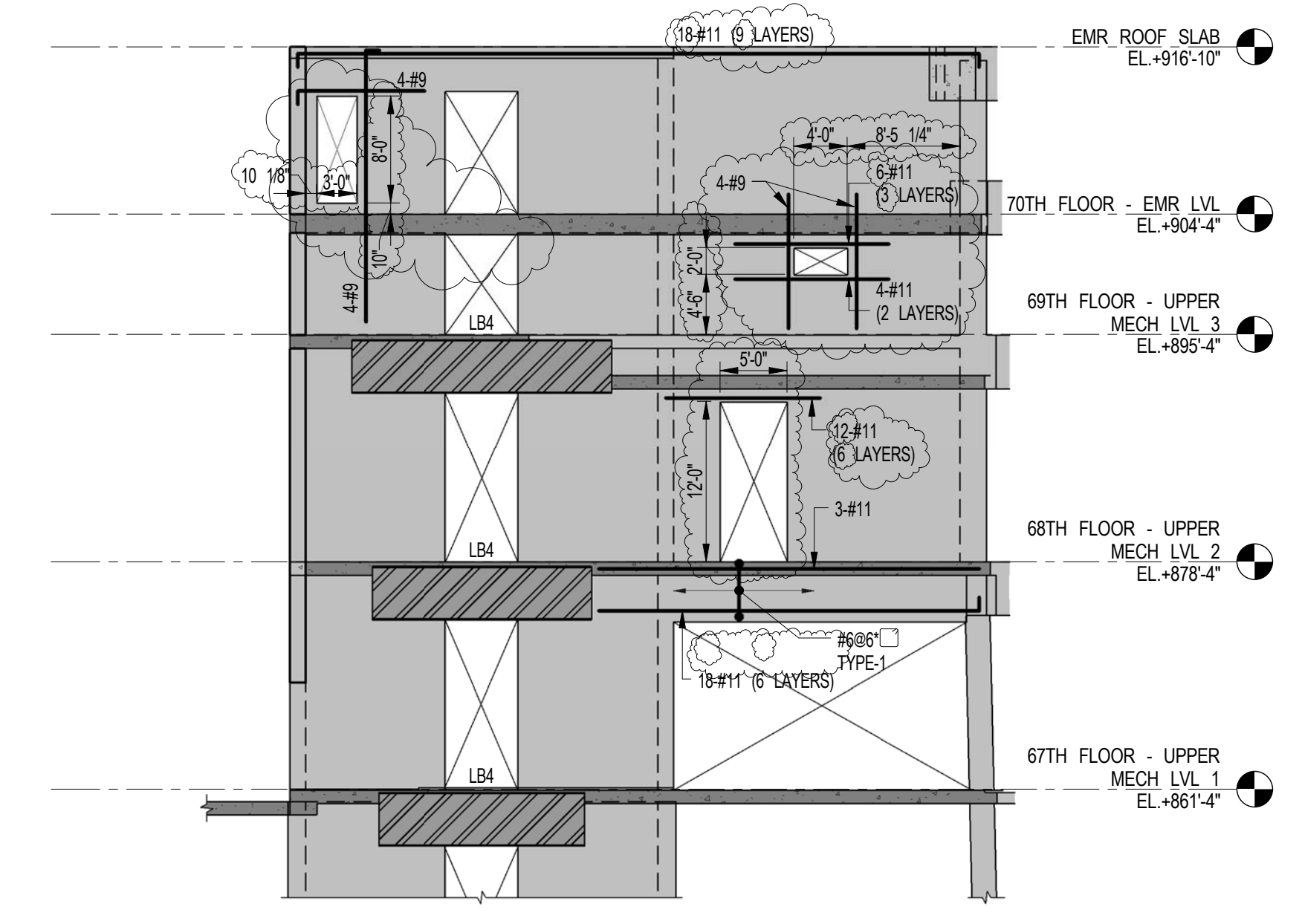
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DRAWING SCALE
As indicated

PROJECT NUMBER
2012088

TITLE
SHEARWALL ELEVATIONS 3

DRAWING NO.
S-932.01



15 HUDSON YARDS
a.k.a. 553 W 30TH STREET,
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80 Pine Street
New York, NY 10005
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F: 212-269-5894

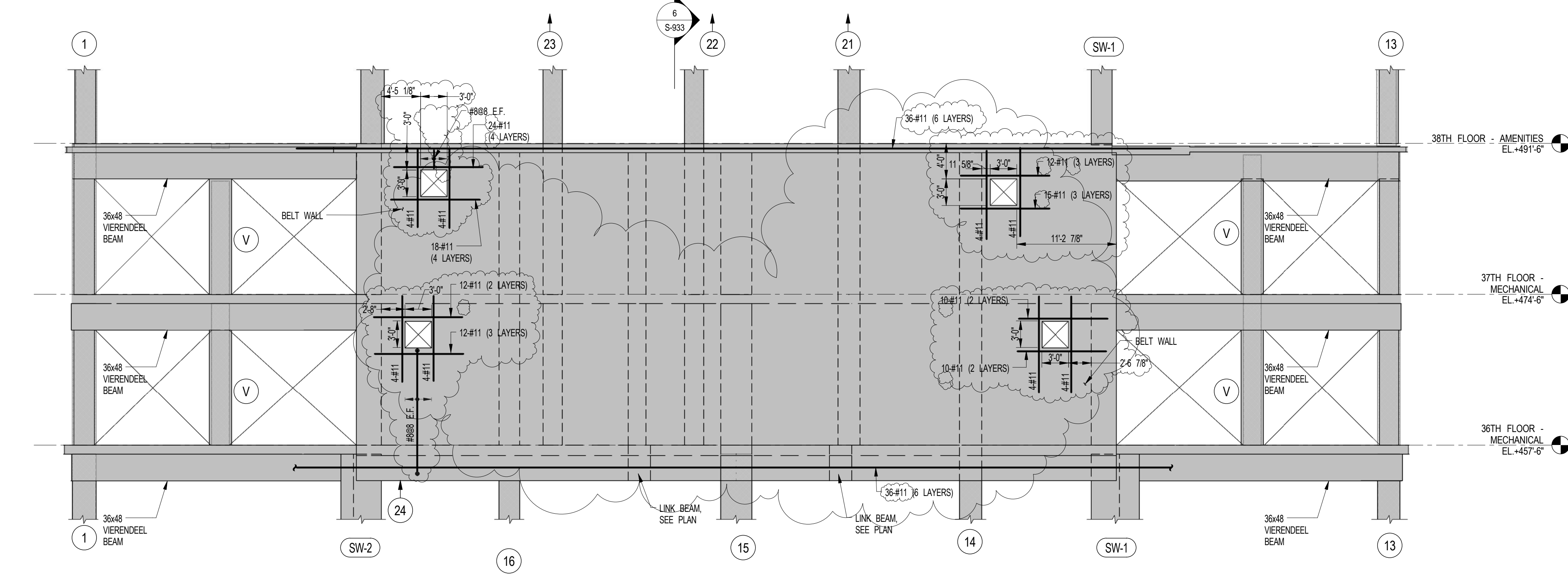
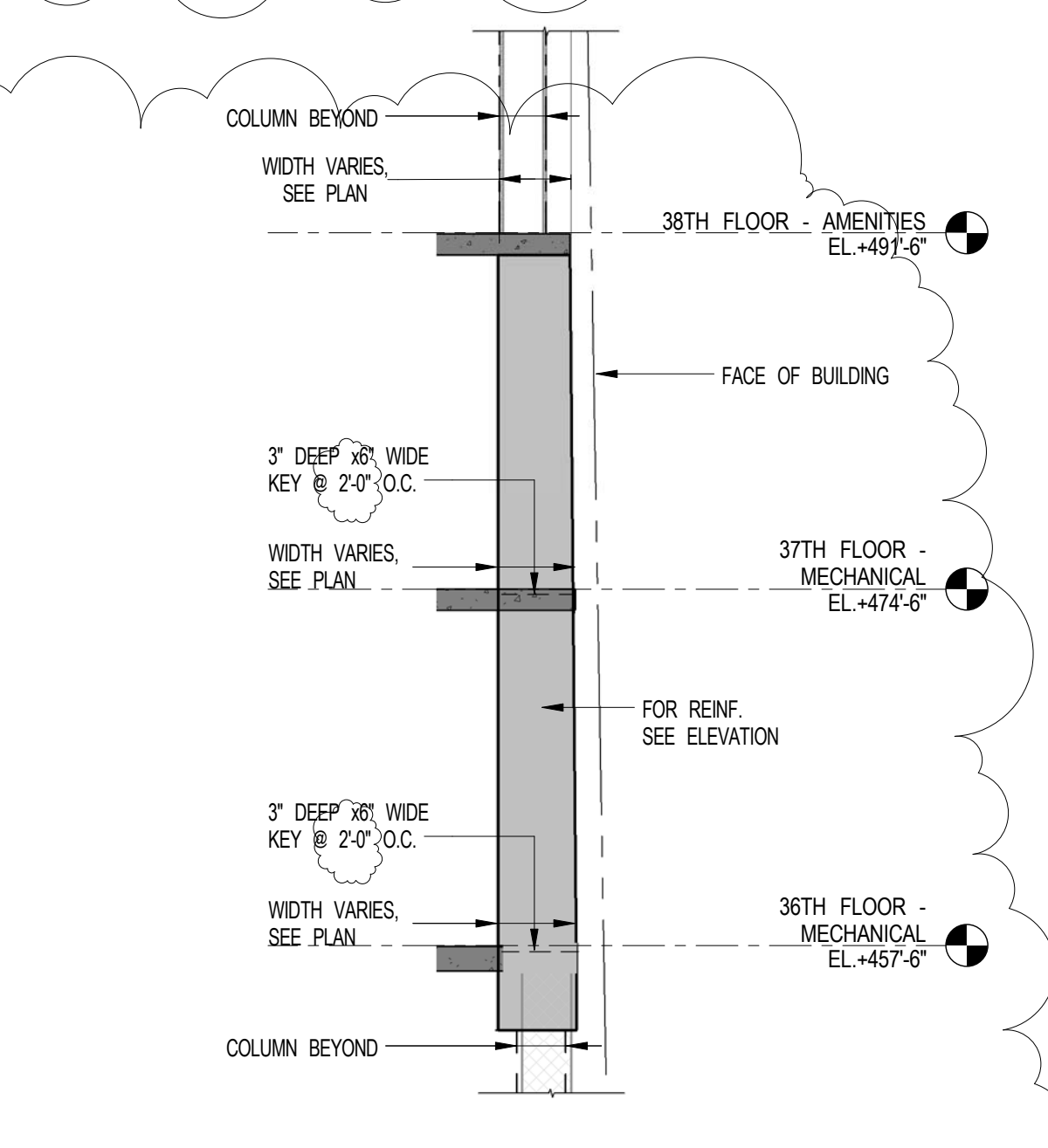
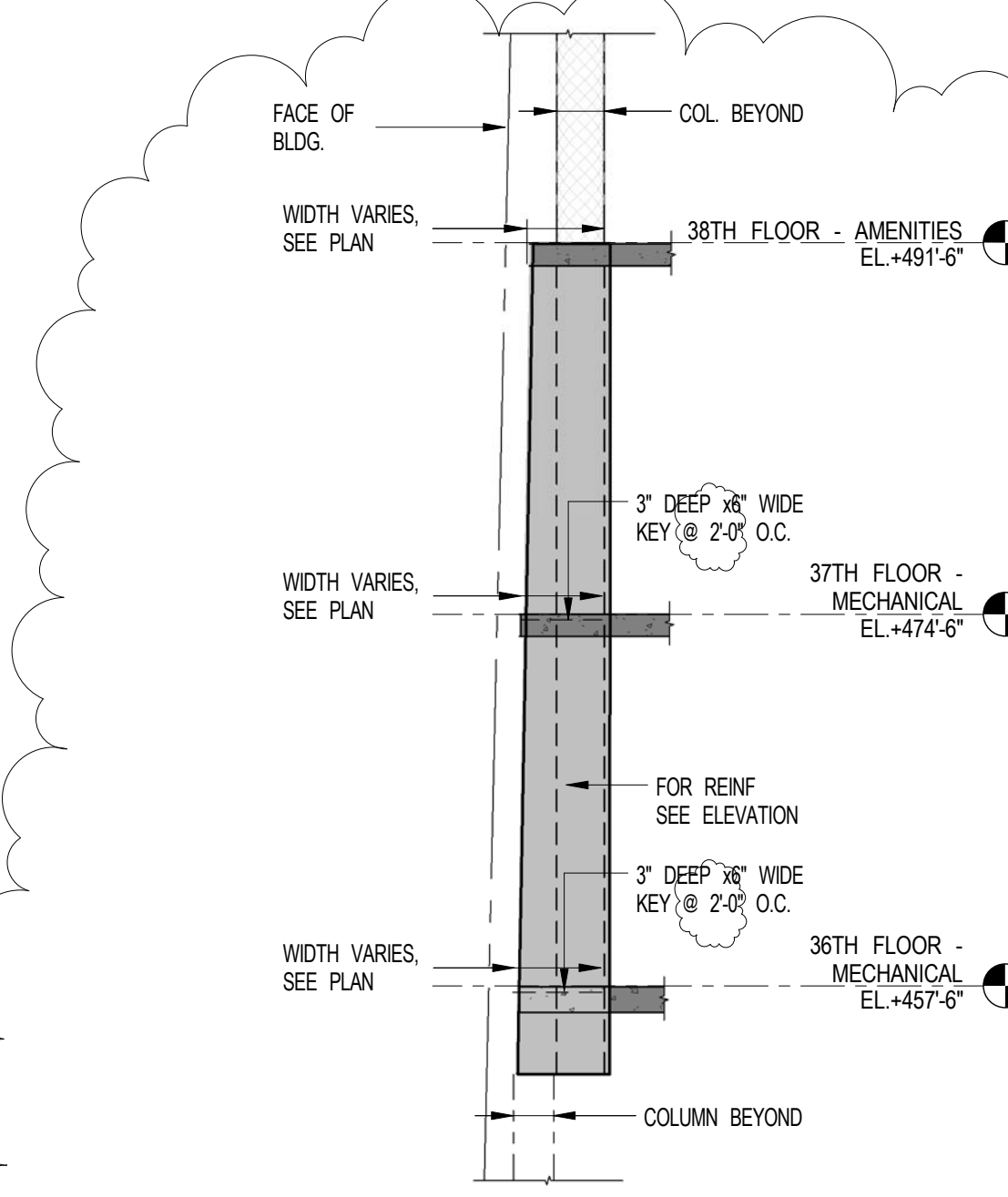
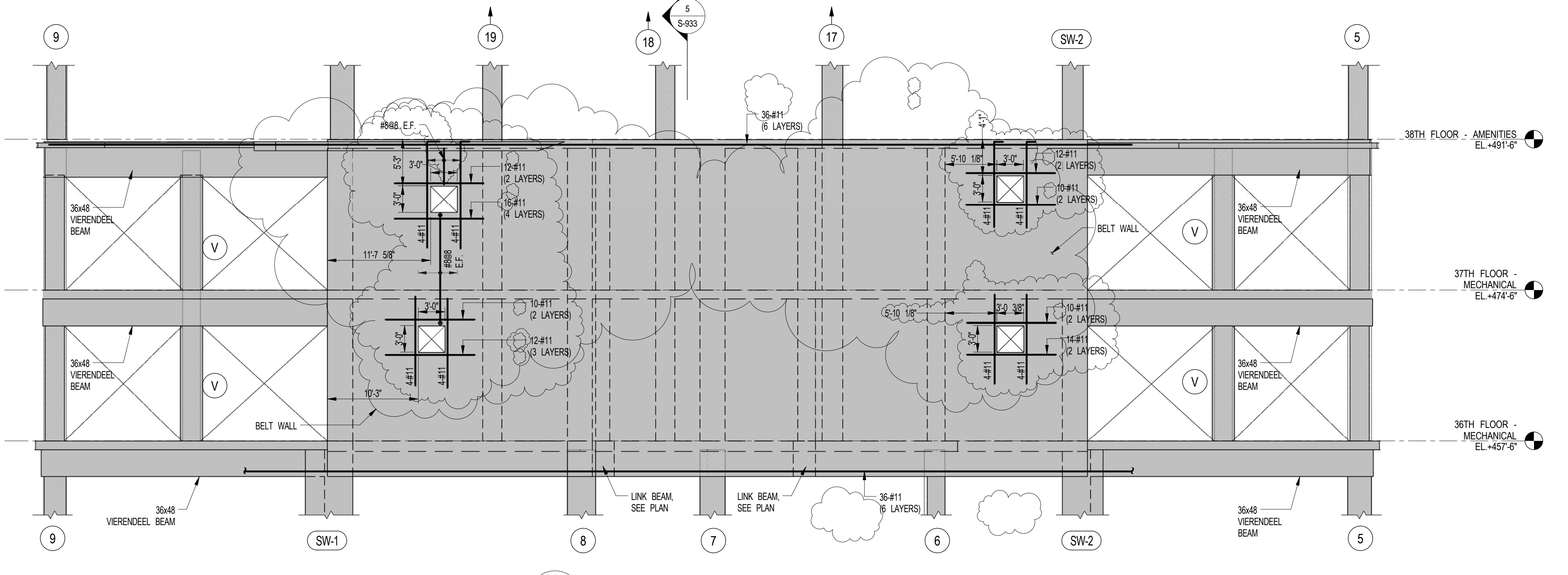
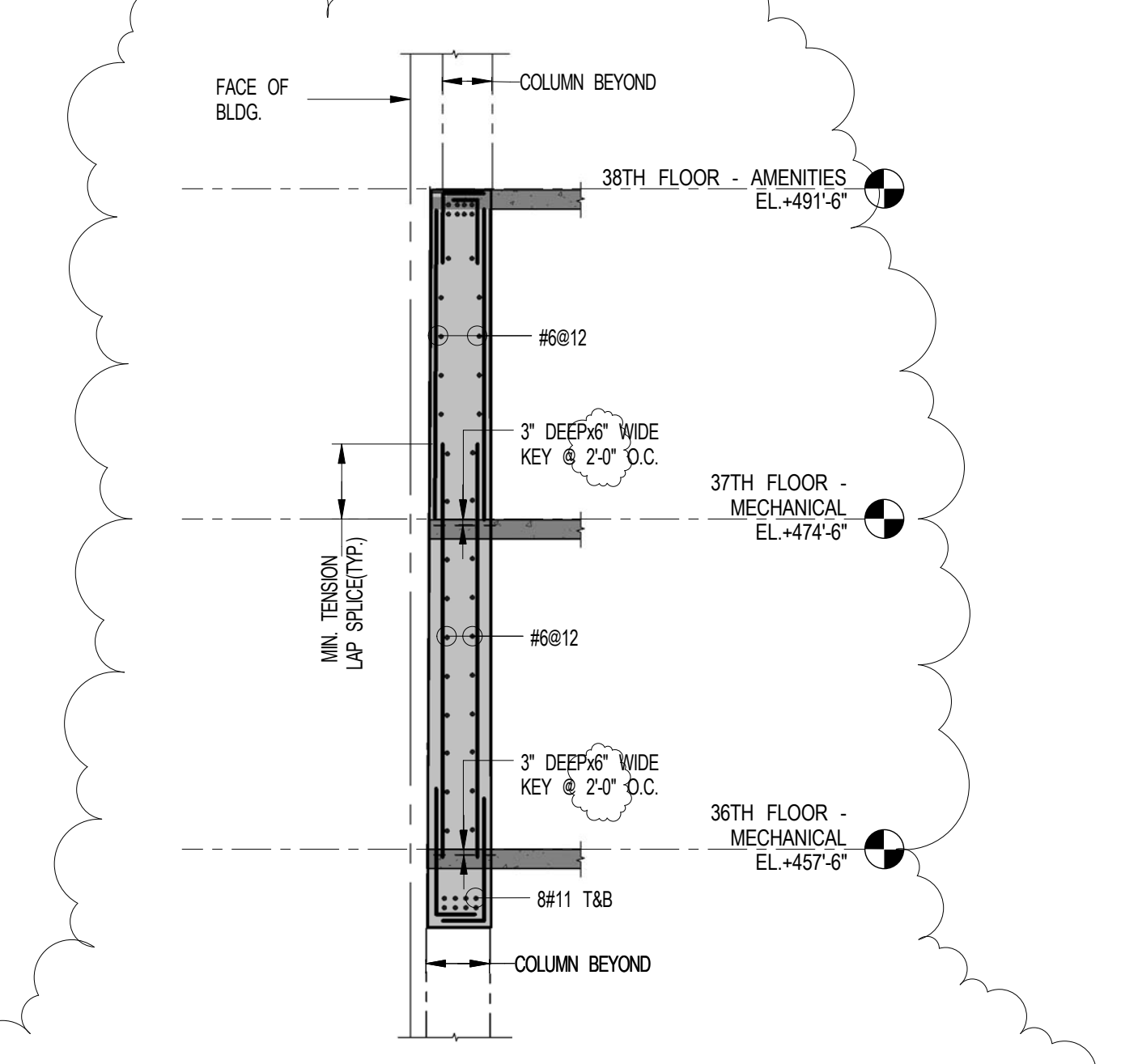
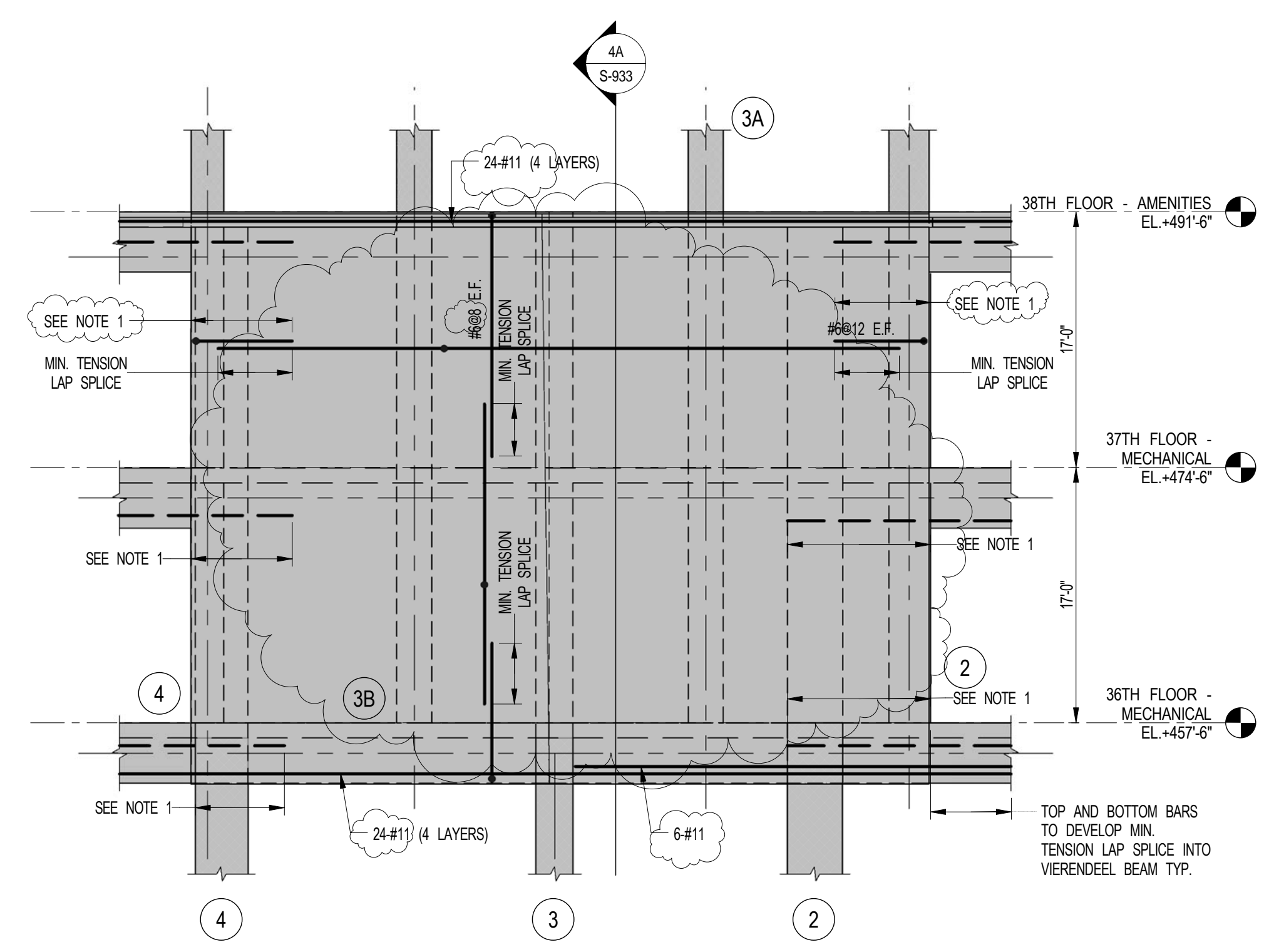
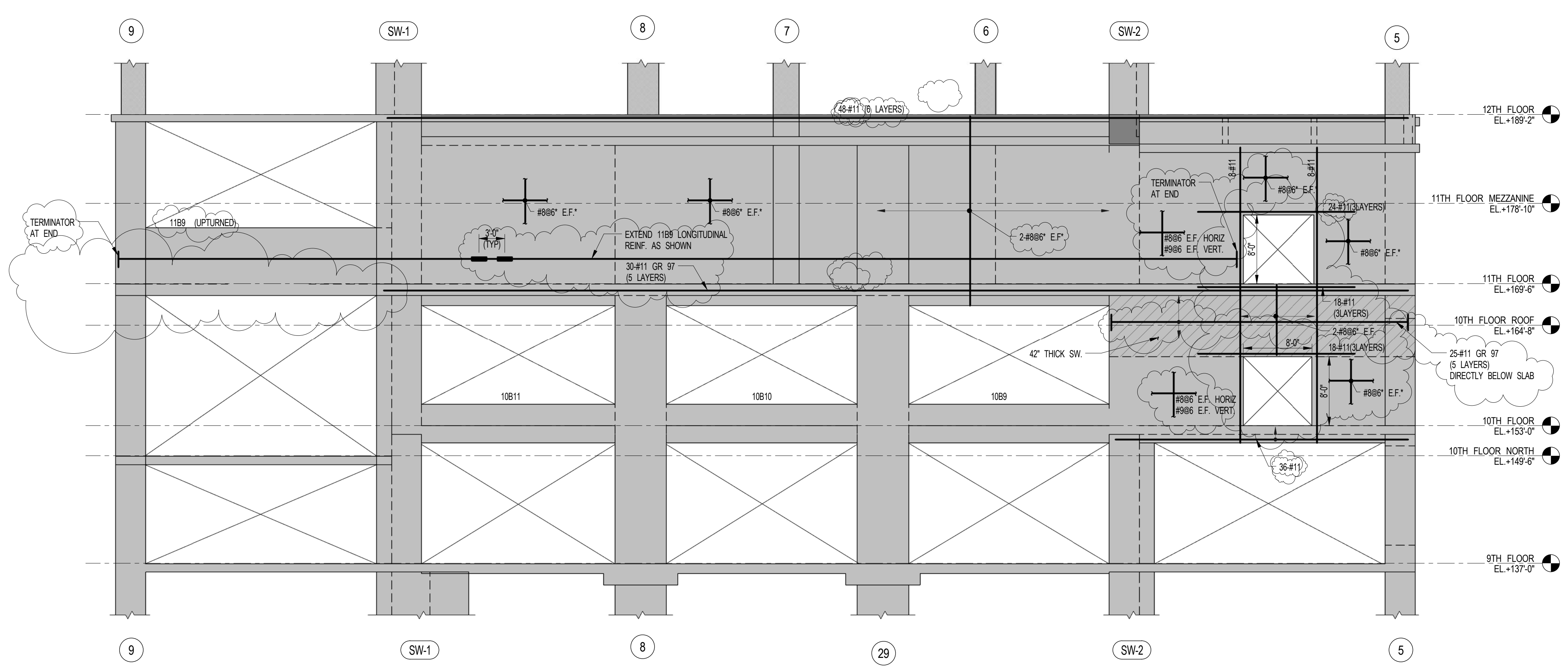
EXTERIOR WALL CONSULTANT:
Isabel Berger & Associates
360 Park Avenue South, 15th Floor
New York, NY 10010
T: 212-689-5398

VERTICAL TRANSPORTATION:
Van Dusen & Associates
5 Regent Street, Suite 524
Langston, NJ 07039
T: 973-994-9220

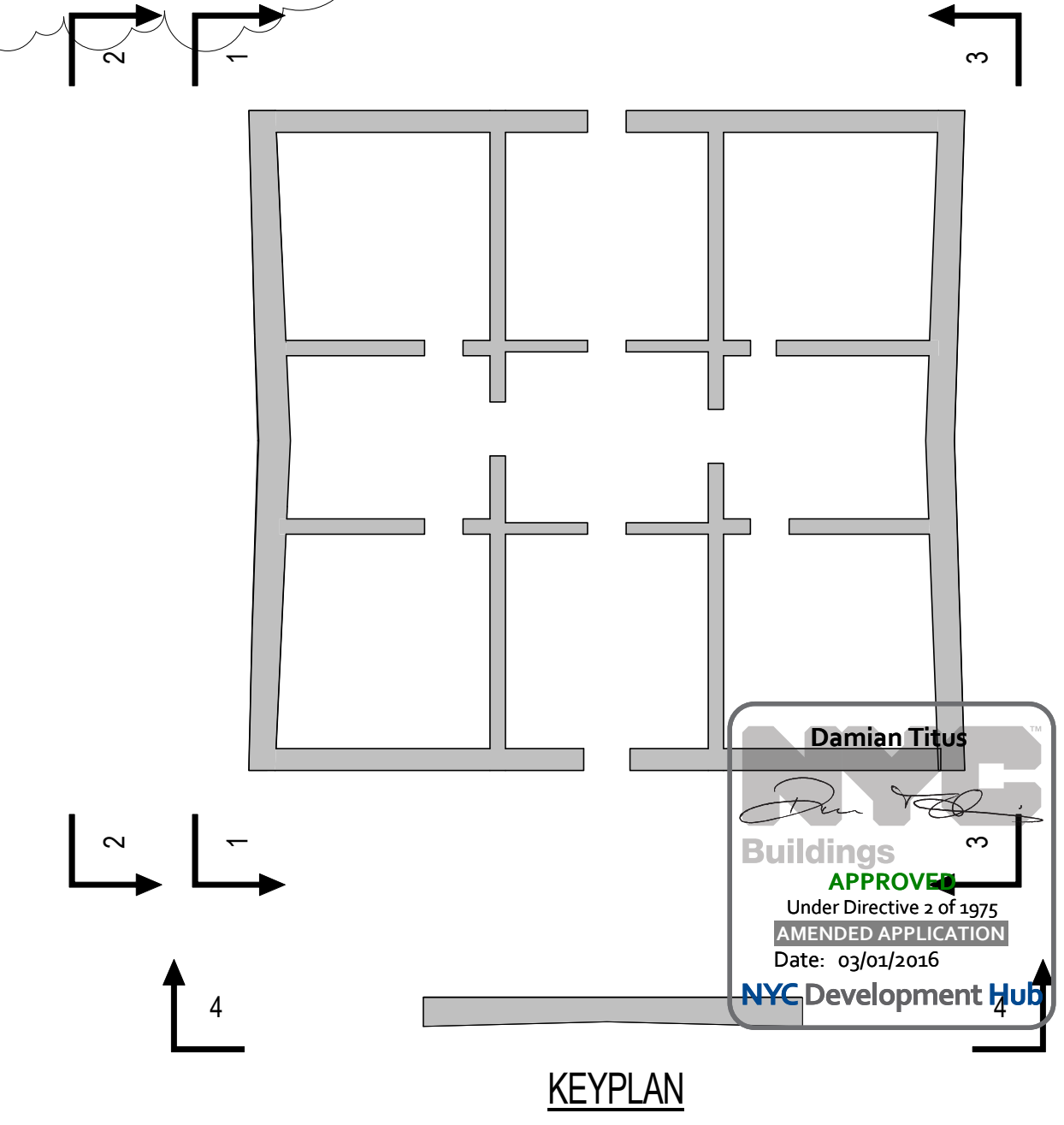
LEED CONSULTANT:
Viridian
350 Park Avenue South, 15th Floor
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T: 203-299-1411

ACOUSTICAL CONSULTANTS:
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LEGEND:
V INDICATES 340 VERDECEL COLUMN



SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	SUPERSTRUCTURE EARLY BID	1 11-17-14
2	SET	2
3	DESIGN DEVELOPMENT SET	2 12-22-14
4	NYCT SUBMISSION	3 12-23-14
5	UPDATED DOB SET	4 01-20-15
6	70% CD	5 04-27-15
7	80% CD	6 07-02-15
8	80% PARTIAL CD ISSUE - FLOORS	7 09-03-15
9	SC-12	8 11-24-15
10	95% CD	9 01-28-16
11	PA# #2	9 01-28-16
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DRAWING SCALE:
As indicated

PROJECT NUMBER:
2012088

TITLE:
SHEARWALL ELEVATIONS 4

DRAWING NO.:
S-933.01

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MEP ENGINEER:
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F: 212-269-5894

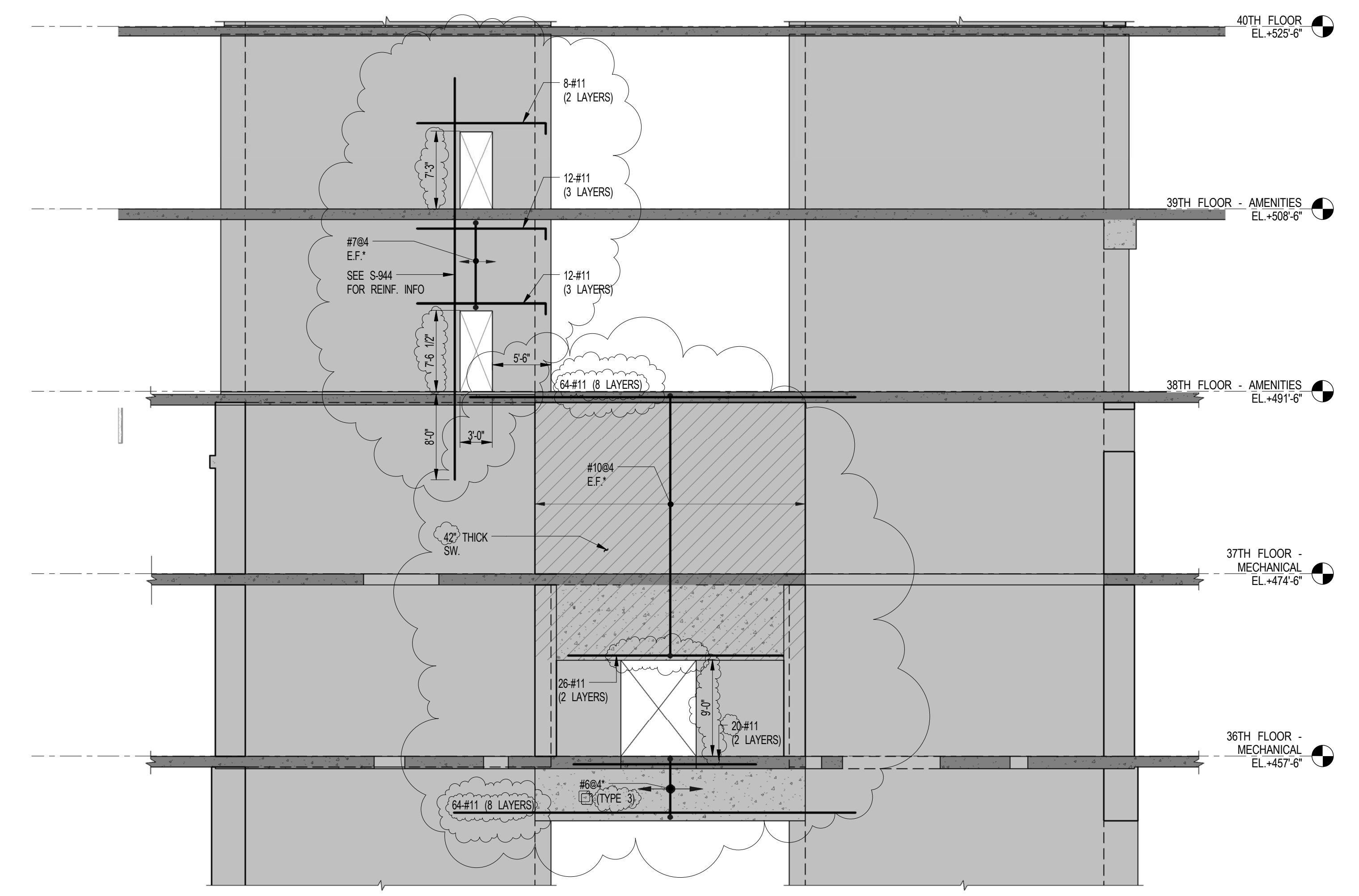
EXTERIOR WALL CONSULTANT:
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T: 212-689-5398

VERTICAL TRANSPORTATION:
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Lintonville, NJ 07036
T: 973-994-9220

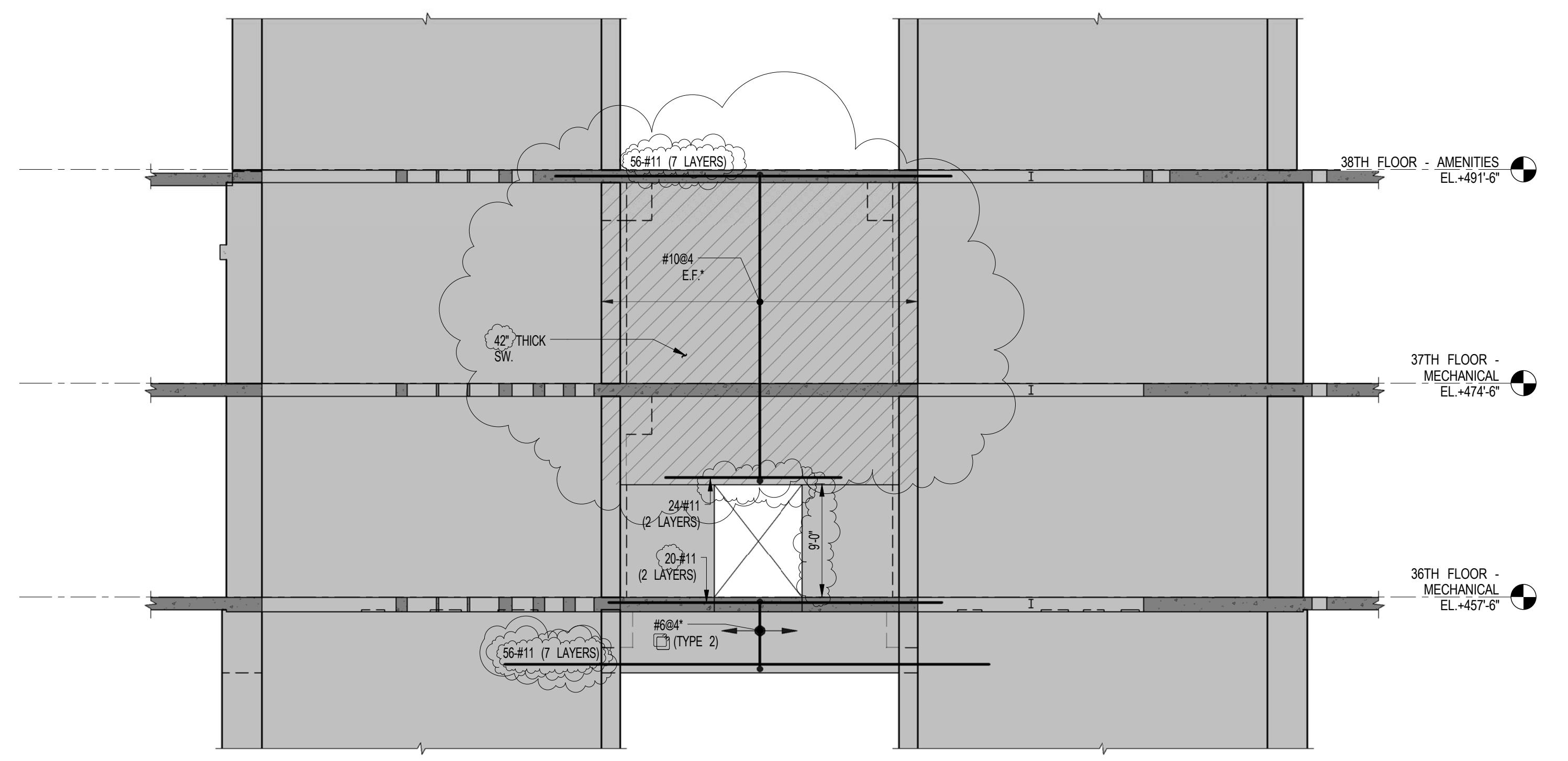
LEED CONSULTANT:
Viridian
350 Park Avenue South, 15th Floor
New York, NY 10010
T: 203-299-1411

ACOUSTICAL CONSULTANTS:
CERAMI & ASSOCIATES INC.
404 5th Ave. #8
New York, NY 10018
T: 212-209-1176

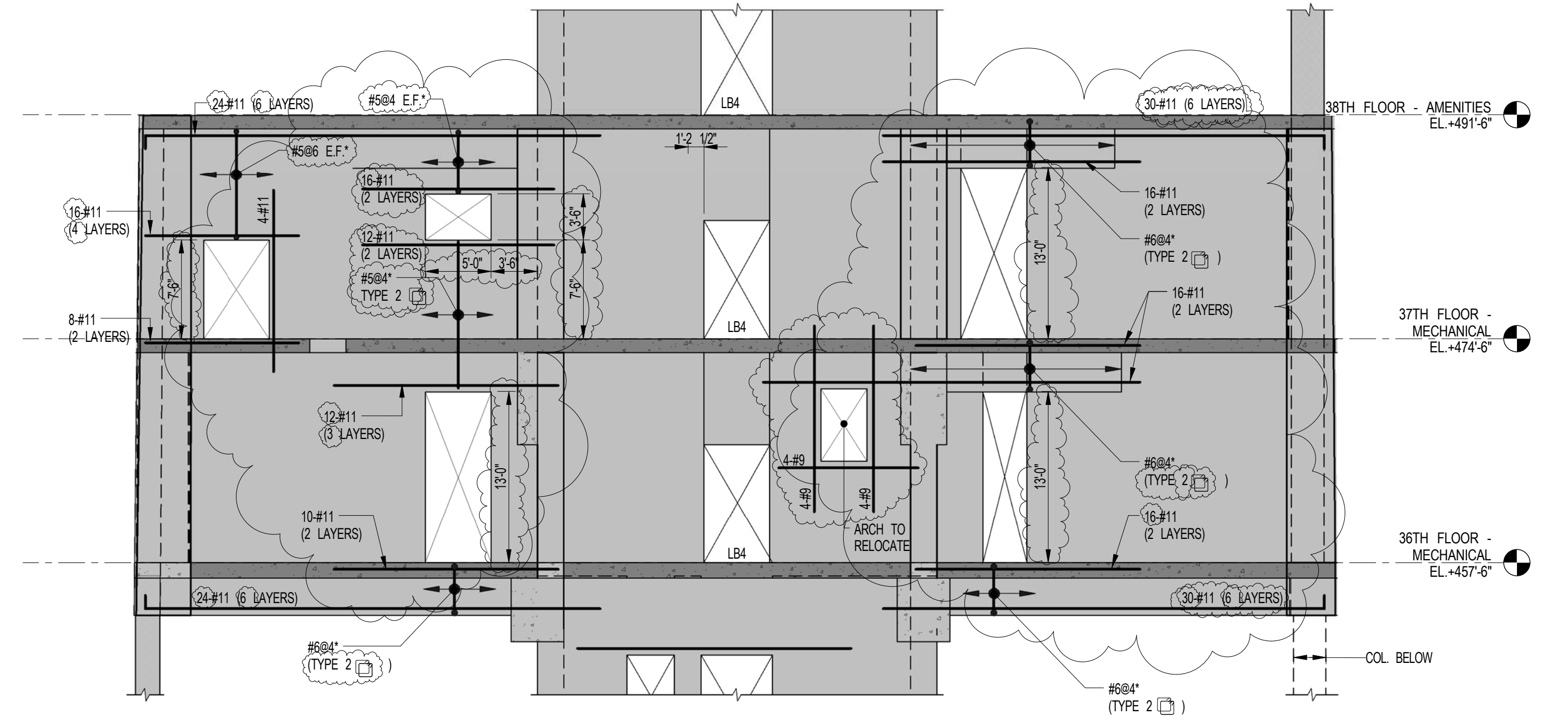
LANDSCAPE DESIGNER:
Nelson Byrd Wolfe
200 Park Avenue South, Suite 920
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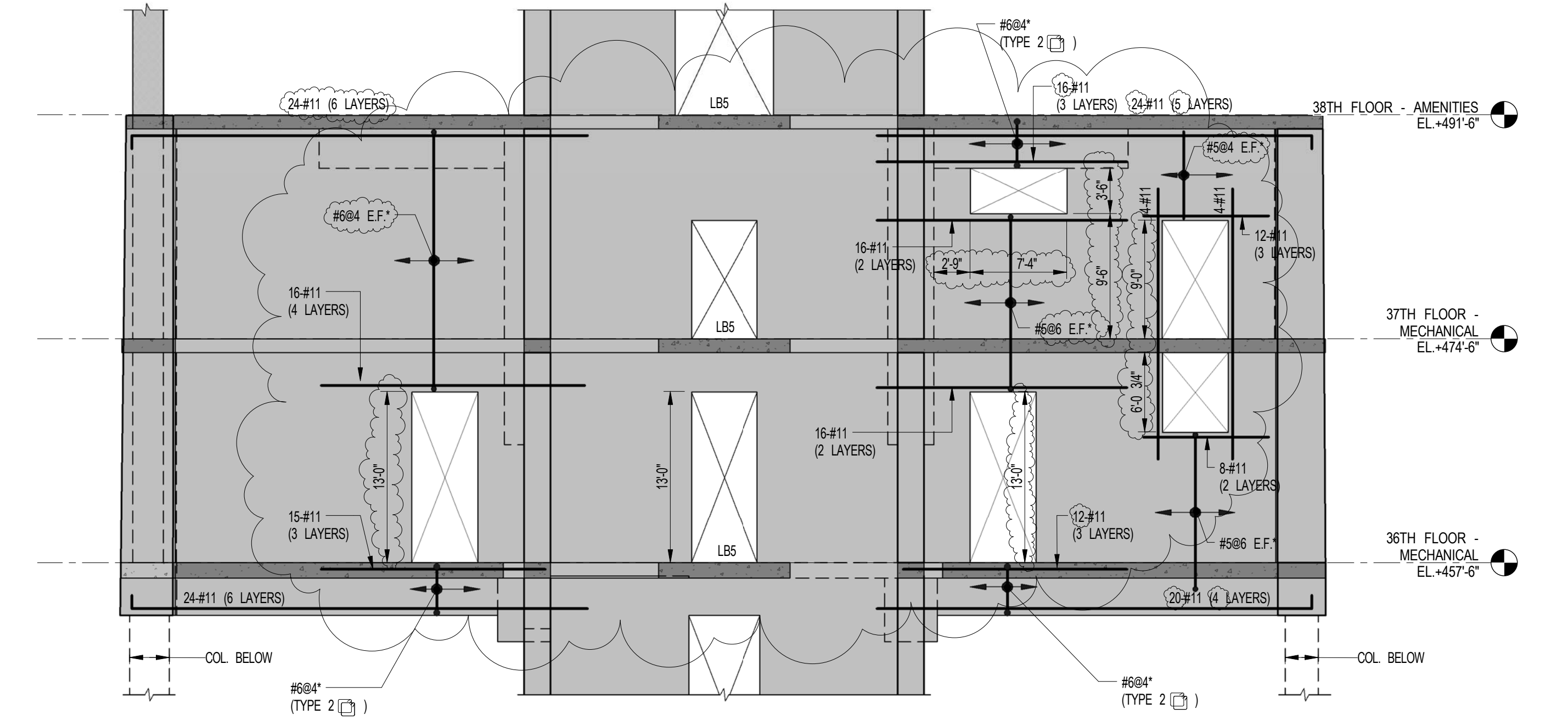
1 BELT WALL ELEVATION (LOOKING EAST)
S-934 SCALE: 1/8" = 1'-0"



2 BELT WALL ELEVATION (LOOKING EAST)
S-934 SCALE: 1/8" = 1'-0"



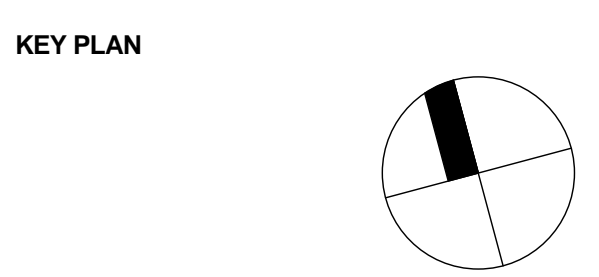
3 BELT WALL ELEVATION (LOOKING NORTH)
S-934 SCALE: 1/8" = 1'-0"



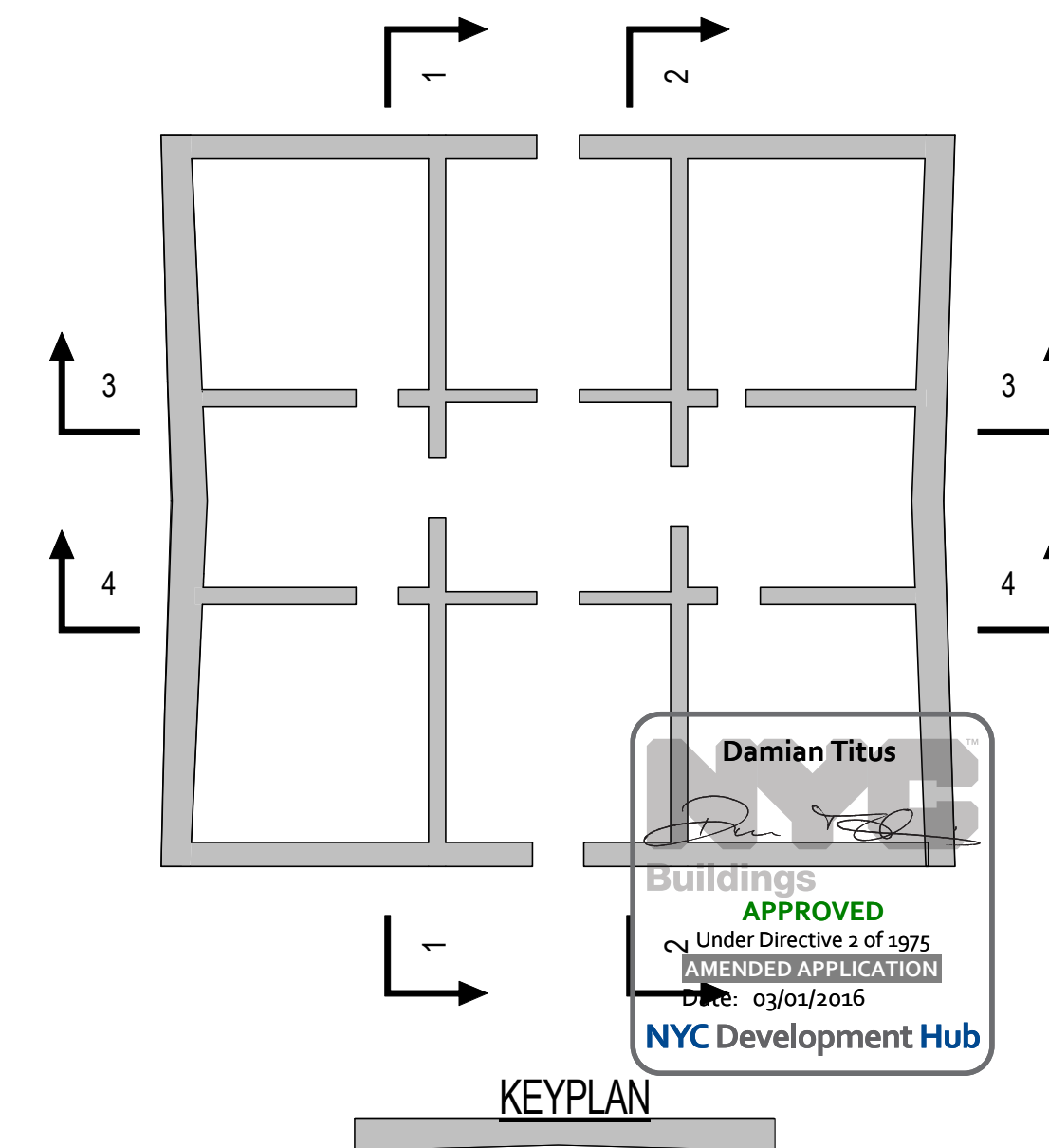
4 BELT WALL ELEVATION (LOOKING NORTH)
S-934 SCALE: 1/8" = 1'-0"

SHEET NOTES:

NO	ISSUE SET	REV DATE
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2	SET	
3	DESIGN DEVELOPMENT SET	2 12-22-14
4	NYCT SUBMISSION	3 12-23-14
5	UPDATED DOB SET	4 01-20-15
6	70% CD	5 04-27-15
7	85% CD	6 07-02-15
8	95% CD	7 11-24-15
9	PAA #2	8 01-28-16
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NOTES:
1. SEE DRAWING S-931 FOR NOTES AND LEGEND.
2. FOR WALL THICKNESS SEE PLAN.



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DATE OF PRINT:
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DRAWING SCALE:
As indicated

PROJECT NUMBER:
2012088

TITLE:
SHEARWALL ELEVATIONS 5

DRAWING NO.:
S-934.01

15 HUDSON YARDS
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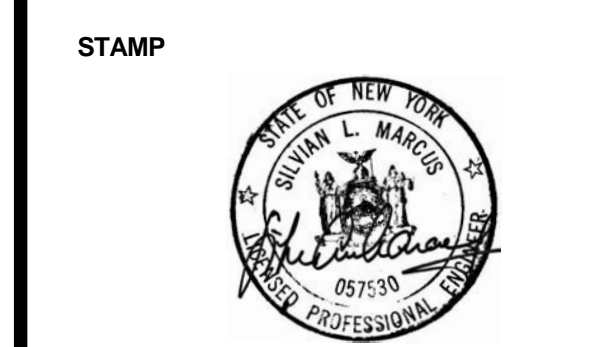
ACOUSTICAL CONSULTANTS:
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404 5th Ave. #8
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T: 212-379-1776

LANDSCAPE DESIGNER:
Nelson Byrd Wolfe
200 Park Avenue South, Suite 920
New York, NY 10003
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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV DATE
1	EARLY FOUNDATION PACKAGE	1 02-01-13
2	REVISED SD ISSUE	2 09-06-13
3	CAISSON PRICING SET	3 11-08-13
4	FINAL SD ISSUE	4 11-26-13
5	FOUNDATION BID PACKAGE	5 01-10-14
6	FOUNDATION PERMIT ISSUE	6 02-04-14
7	FOUNDATION BID SET	7 06-02-14
8	FOUNDATION BID SET	8 07-11-14
9	REVISED SD	9 08-22-14
10	REVISED AS NOTED	10 09-29-14
11	NYCT SUBMISSION	11 10-15-14
12	REVISED AS NOTED	12 10-15-14
13	SUPERSTRUCTURE EARLY BID SET	13 11-17-14
14	70% CD	14 04-27-15
15	REVISED AS NOTED	15 06-02-15
16	80% CD	16 07-02-15
17	90% PARTIAL CD ISSUE - FLOORS	17 09-03-15
18	90% CD	18 11-24-15
19	PAA #2	19 01-28-16
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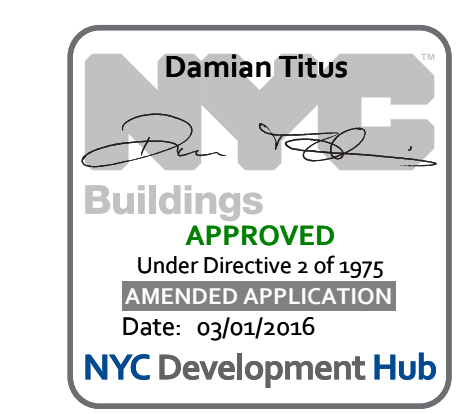
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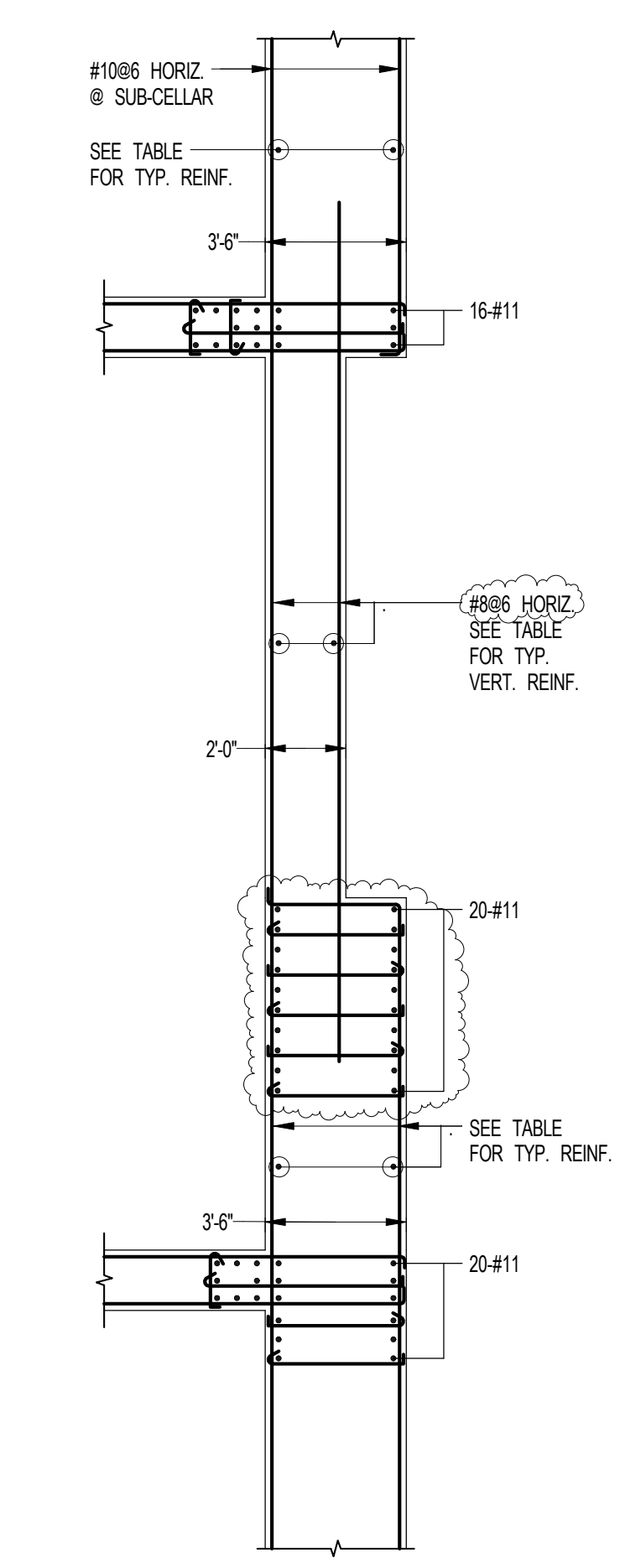
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2012088

TITLE
SHEARWALL REINFORCEMENT DETAILS 1 -
FOUNDATION TO US OF GROUND FLOOR

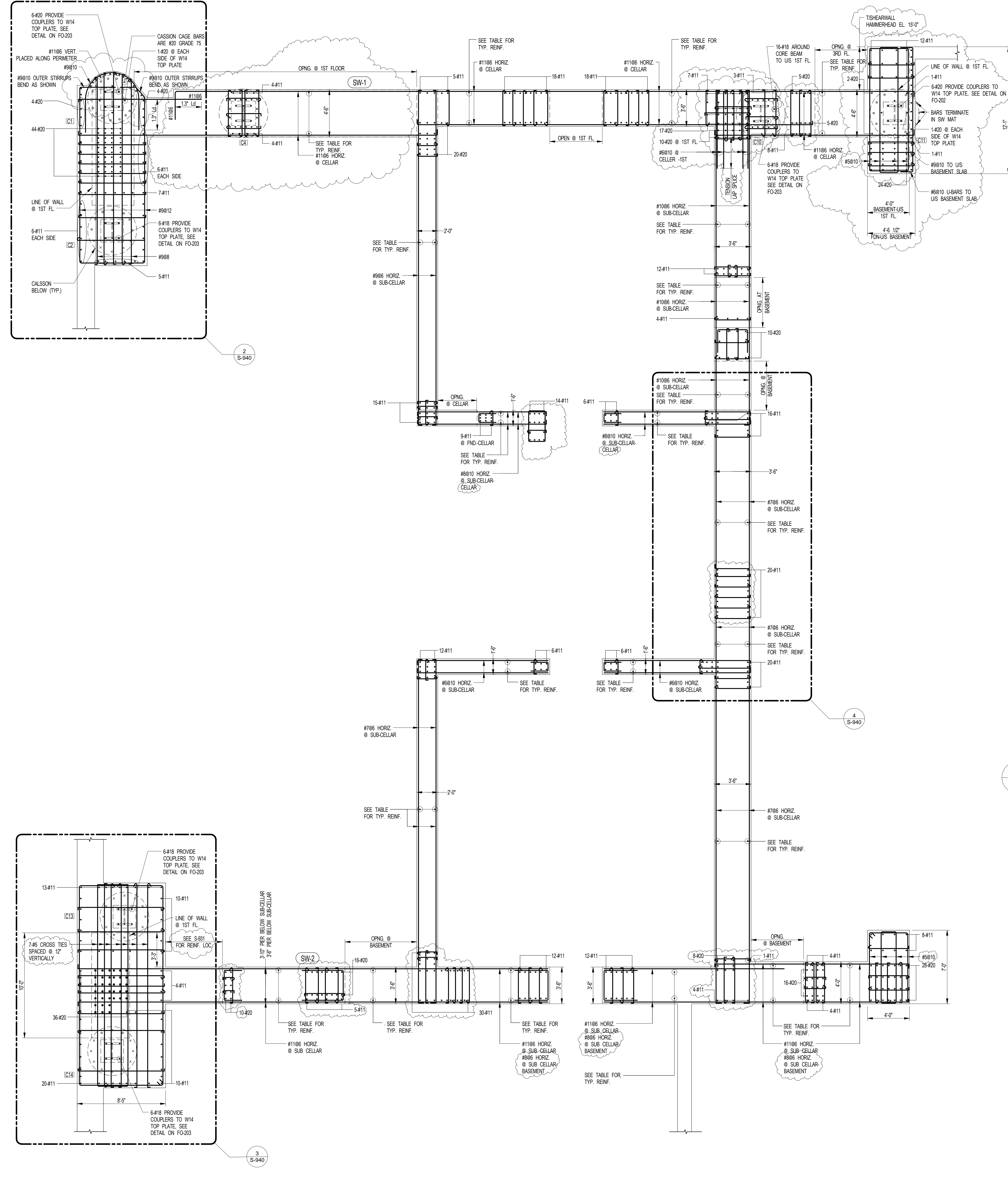
DRAWING NO.
S-940.01



4 PART PLAN AT CELLAR TO US OF 1ST FLOOR
SCALE: 1/4" = 1'-0"

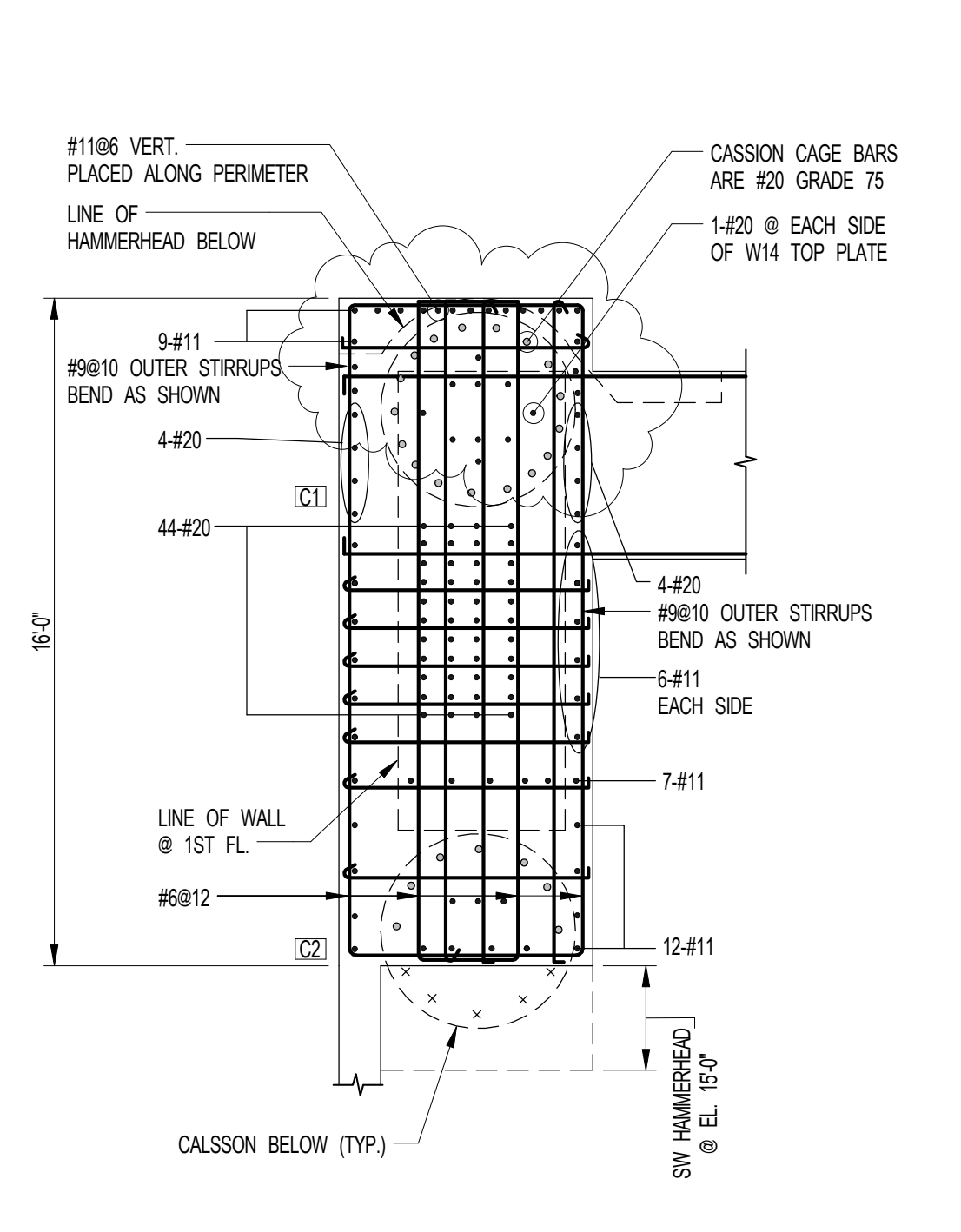


1 SHEARWALL REINFORCEMENT DETAILS I - FOUNDATION TO US OF 1ST FLOOR
SCALE: 1/4" = 1'-0"

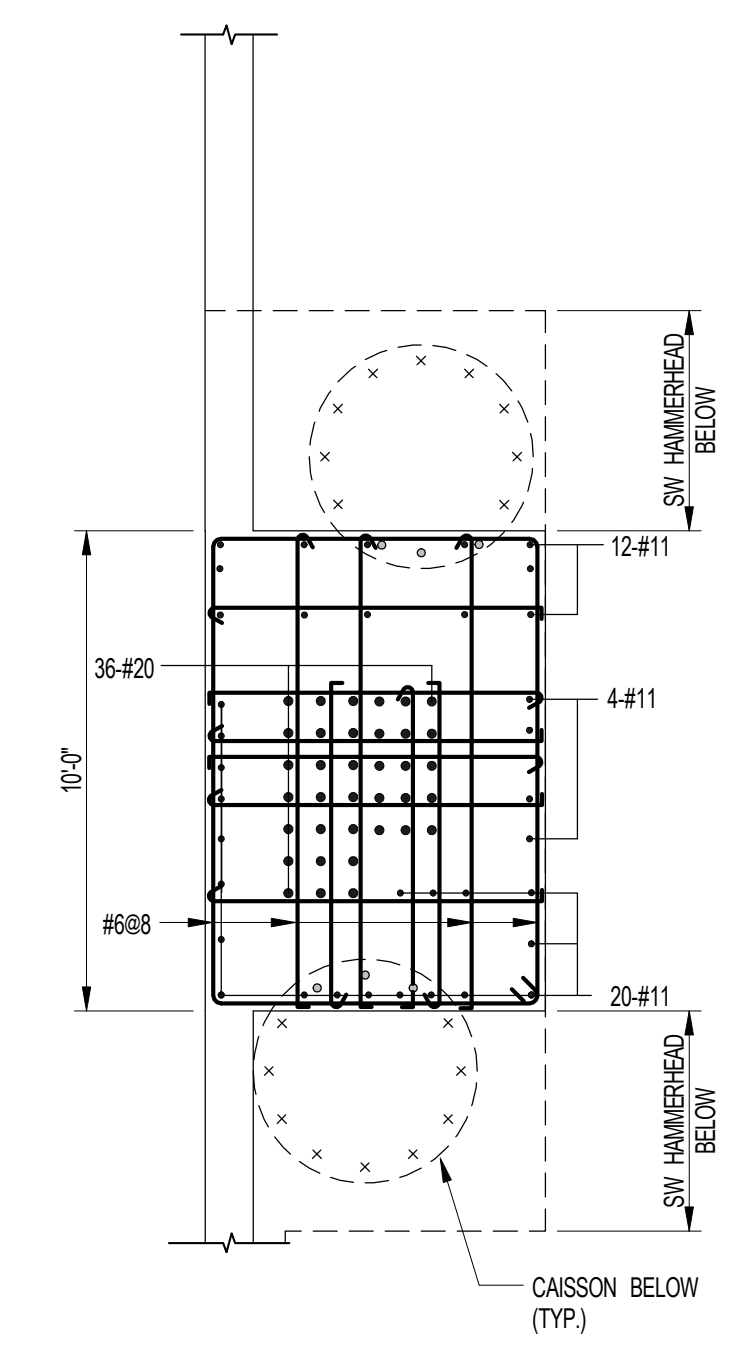


- NOTES:**
- SEE SHEARWALL ELEVATIONS FOR ADDITIONAL REINFORCEMENT NOT SHOWN ON PLANS.
 - SEE DWG. S-939 & S-938 FOR LINK BEAM SCHEDULE.
 - SEE DWG. S-947 FOR TYPICAL SHEARWALL DETAILS AND TYPICAL WALL REINFORCEMENT SCHEDULE.
 - ALL REINFORCEMENT SHOWN ON PLAN SHALL BE GRADE 60 U.O.N.
 - ALL #10 VERTICAL REINFORCEMENT SHALL BE GRADE 87 U.O.N.
 - ALL #10 VERTICAL REINFORCEMENT SHALL BE GRADE 75.
 - FOR BALANCE OF DIMENSIONS SEE CORRESPONDING PLANS.
- LEGEND:**
- INDICATES SHEARWALL VERTICAL REINF.
 - INDICATES CAISSON VERTICAL REINF. DEVELOPED INTO SHEARWALL AND TERMINATED AT US 1ST FL. SLAB. SEE FO-202 AND FO-203 FOR CAISSON REINF. INFO AND DETAILS.
 - INDICATES CAISSON VERTICAL REINF. DEVELOPED INTO SHEARWALL AND TERMINATED AT US BASEMENT SLAB U.O.N. ON PLAN. SEE FO-202 AND FO-203 FOR CAISSON REINF. INFO AND DETAILS.

2 PART PLAN AT EL. -0'-8" TO US 1ST FLOOR SLAB
SCALE: 1/4" = 1'-0"



3 PART PLAN AT BASEMENT
SCALE: 1/4" = 1'-0"



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SHEET NOTES:

NO	ISSUE SET	REV	DATE
1	EARLY FOUNDATION PACKAGE	1	02-01-13
2	SUBSTRUCTURE EARLY RFD	2	11-17-14
3	SET		
4	DESIGN DEVELOPMENT SET	3	12-23-14
5	NYCT SUBMISSION	4	12-23-14
6	UPDATED DOB SET	5	01-20-15
7	70% CD	6	04-27-15
8	85% CD	7	07-02-15
9	90% PARTIAL CD ISSUE - FLOORS	8	09-03-15
10	SC-12		
11	95% CD	9	11-24-15
12	PAA #2	10	01-26-16
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KEY PLAN

NO **ISSUE SET** **REV** **DATE**

NO **ISSUE SET** **REV** **DATE**

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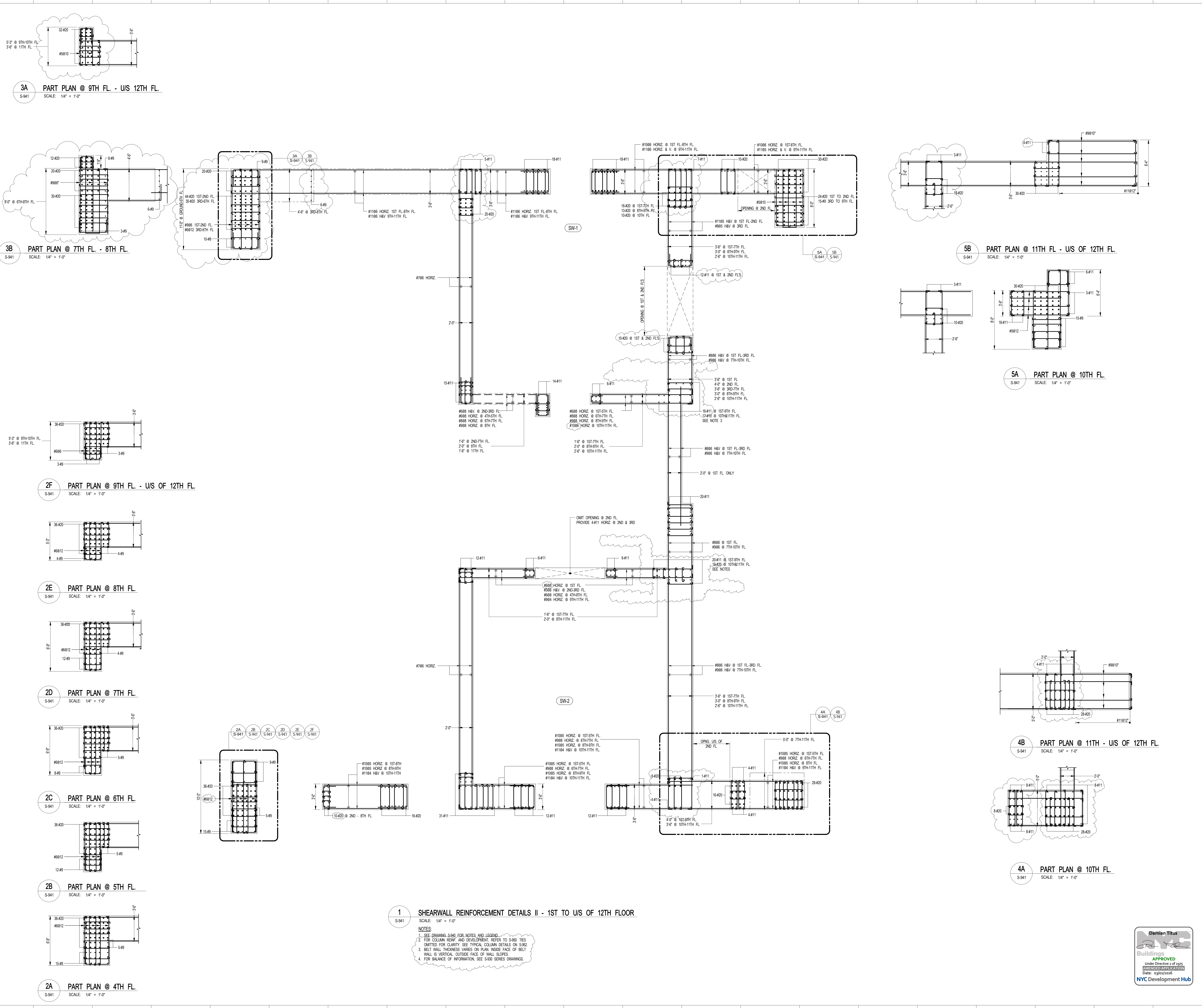
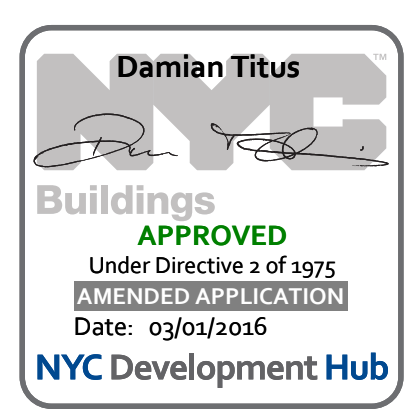
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DRAWING SCALE
As indicated

PROJECT NUMBER
2012088

TITLE
SHEARWALL REINFORCEMENT DETAILS II -
GROUND TO US OF 12TH FLOOR

DRAWING NO.
S-941.01



1 SHEARWALL REINFORCEMENT DETAILS II - 1ST TO US OF 12TH FLOOR
SCALE: 1/4" = 1'-0"

NOTES:

- SEE DRAWING S-940 FOR NOTES AND LEGEND.
- FOR COLUMN REINFORCING AND DEVELOPMENT, REFER TO S-940 TIES OMITTED FOR CLARITY. SEE TYPICAL COLUMN DETAILS ON S-942.
- BELT WALL THICKNESS VARIES ON PLAN. INSIDE FACE OF BELT WALL IS VERTICAL. OUTSIDE FACE OF WALL SLOPES.
- FOR BALANCE OF INFORMATION, SEE S-930 SERIES DRAWINGS.

3A PART PLAN @ 9TH FL. - US 12TH FL.
SCALE: 1/4" = 1'-0"

3B PART PLAN @ 7TH FL. - 8TH FL.
SCALE: 1/4" = 1'-0"

2F PART PLAN @ 9TH FL. - US OF 12TH FL.
SCALE: 1/4" = 1'-0"

2E PART PLAN @ 8TH FL.
SCALE: 1/4" = 1'-0"

2D PART PLAN @ 7TH FL.
SCALE: 1/4" = 1'-0"

2C PART PLAN @ 6TH FL.
SCALE: 1/4" = 1'-0"

2B PART PLAN @ 5TH FL.
SCALE: 1/4" = 1'-0"

2A PART PLAN @ 4TH FL.
SCALE: 1/4" = 1'-0"

5B PART PLAN @ 11TH FL. - US OF 12TH FL.
SCALE: 1/4" = 1'-0"

5A PART PLAN @ 10TH FL.
SCALE: 1/4" = 1'-0"

4B PART PLAN @ 11TH - US OF 12TH FL.
SCALE: 1/4" = 1'-0"

4A PART PLAN @ 10TH FL.
SCALE: 1/4" = 1'-0"

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SHEET NOTES:

KEY PLAN

NO	ISSUE SET	REV	DATE
1	DESIGN DEVELOPMENT SET	1	12-22-14
2	NYCT SUBMISSION	2	1-2-20-14
3	UPDATED DOB SET	3	01-20-15
4	70% CD	4	04-27-15
5	80% CD	5	07-02-15
6	80% PARTIAL CD ISSUE - FLOORS	6	09-03-15
7	SC-1	7	11-24-15
8	80% CD	8	01-28-16
9	PAA #2	8	01-28-16
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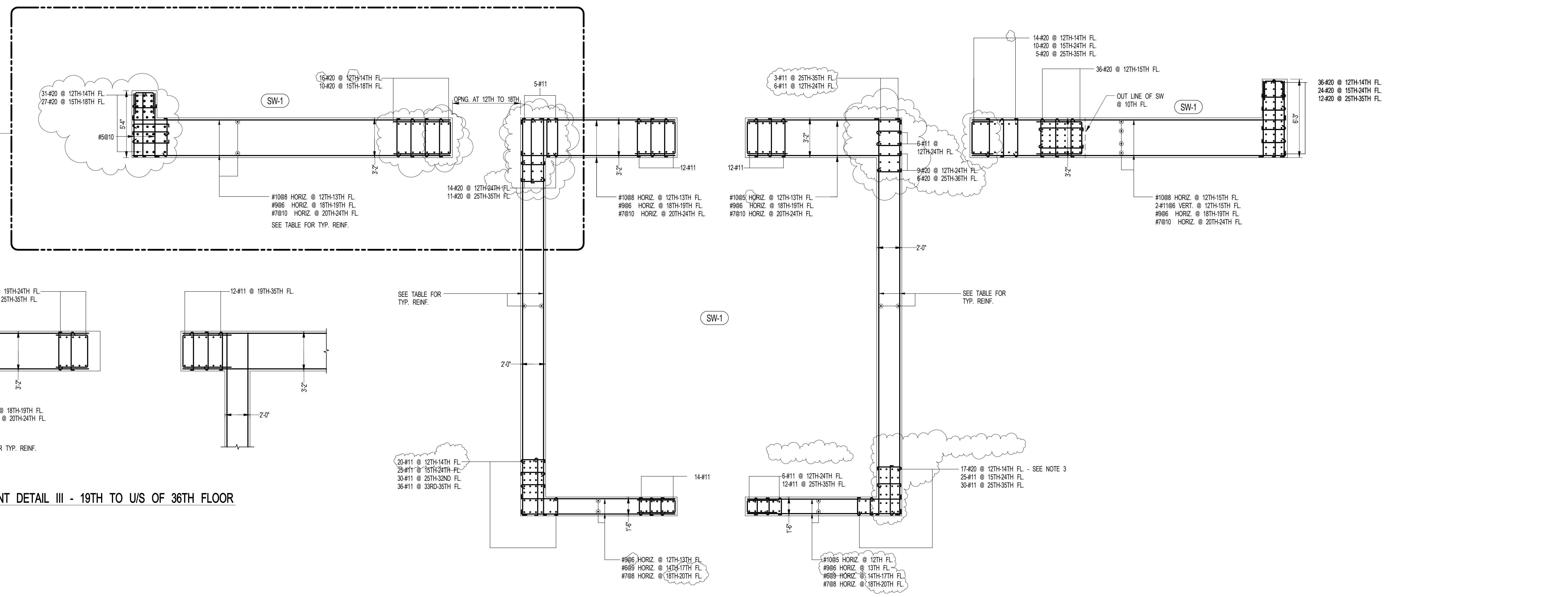
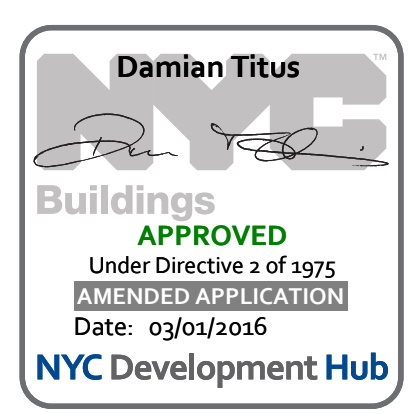
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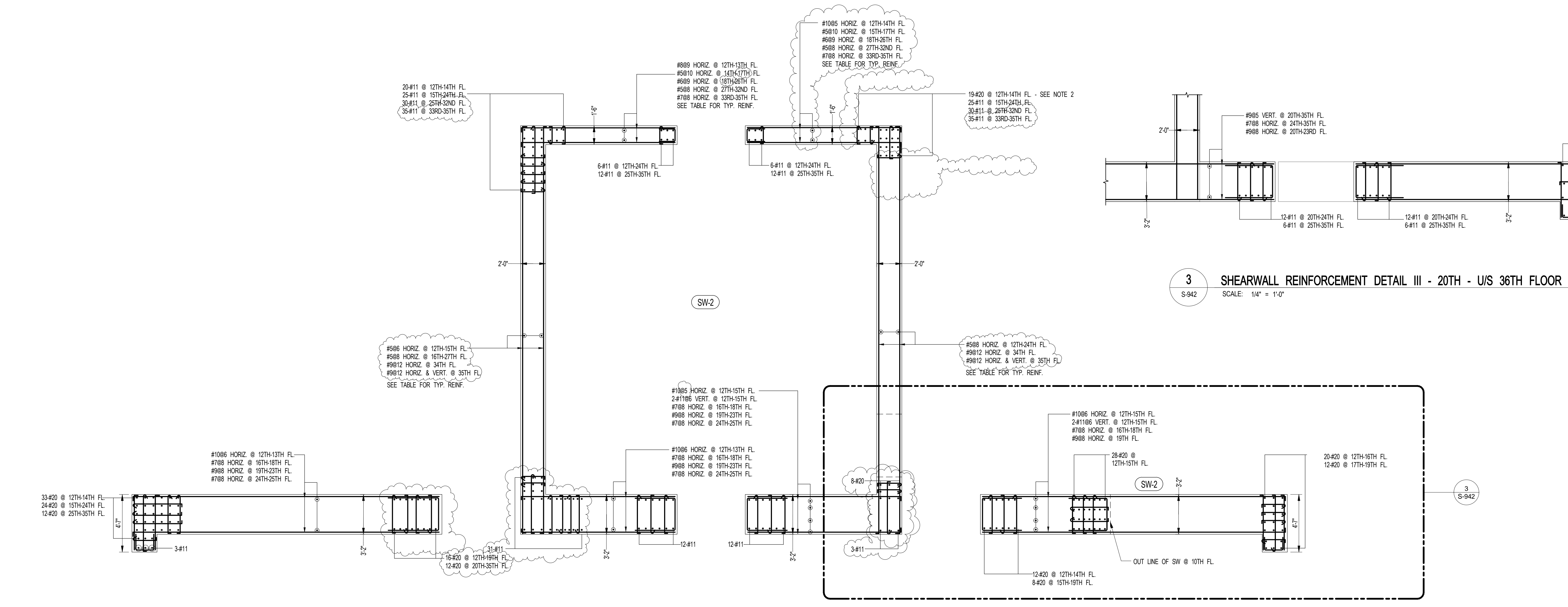
PROJECT NUMBER
2012058

TITLE
SHEARWALL REINFORCEMENT DETAILS III -
12TH TO US OF 36TH FLOOR

DRAWING NO.
S-942.01



2 PART PLAN SHEARWALL REINFORCEMENT DETAIL III - 19TH TO US OF 36TH FLOOR
SCALE: 1/4" = 1'-0"



3 SHEARWALL REINFORCEMENT DETAIL III - 20TH - US 36TH FLOOR
SCALE: 1/4" = 1'-0"

1 SHEARWALL REINFORCEMENT DETAILS III - 12TH TO US OF 36TH FLOOR
SCALE: 1/4" = 1'-0"

- NOTES:**
- SEE DRAWING S-940 FOR NOTES AND LEGEND.
 - FOR COLUMN REIN. AND DEVELOPMENT REFER TO S-940. TIES OMITTED FOR CLARITY. SEE TYPICAL COLUMN DETAILS ON S-940.
 - REIN. WALL THICKNESS VARIES ON PLAN. INSIDE FACE OF REIN. WALL IS VERTICAL. OUTSIDE FACE OF WALL SLOPES.
 - FOR BALANCE OF INFORMATION SEE S-930 SERIES DRAWINGS.

NO	ISSUE SET	REV DATE
1	DESIGN DEVELOPMENT SET	1 12-22-14
2	NYCT SUBMISSION	2 12-23-14
3	UPDATED DOB SET	3 01-20-15
4	70% CD	4 04-27-15
5	80% CD	5 07-02-15
6	80% PARTIAL CD ISSUE - FLOORS	6 09-03-15
7	SC-12	7 11-24-15
8	80% CD	8 01-28-16
9	PAA #2	8 01-28-16
10		
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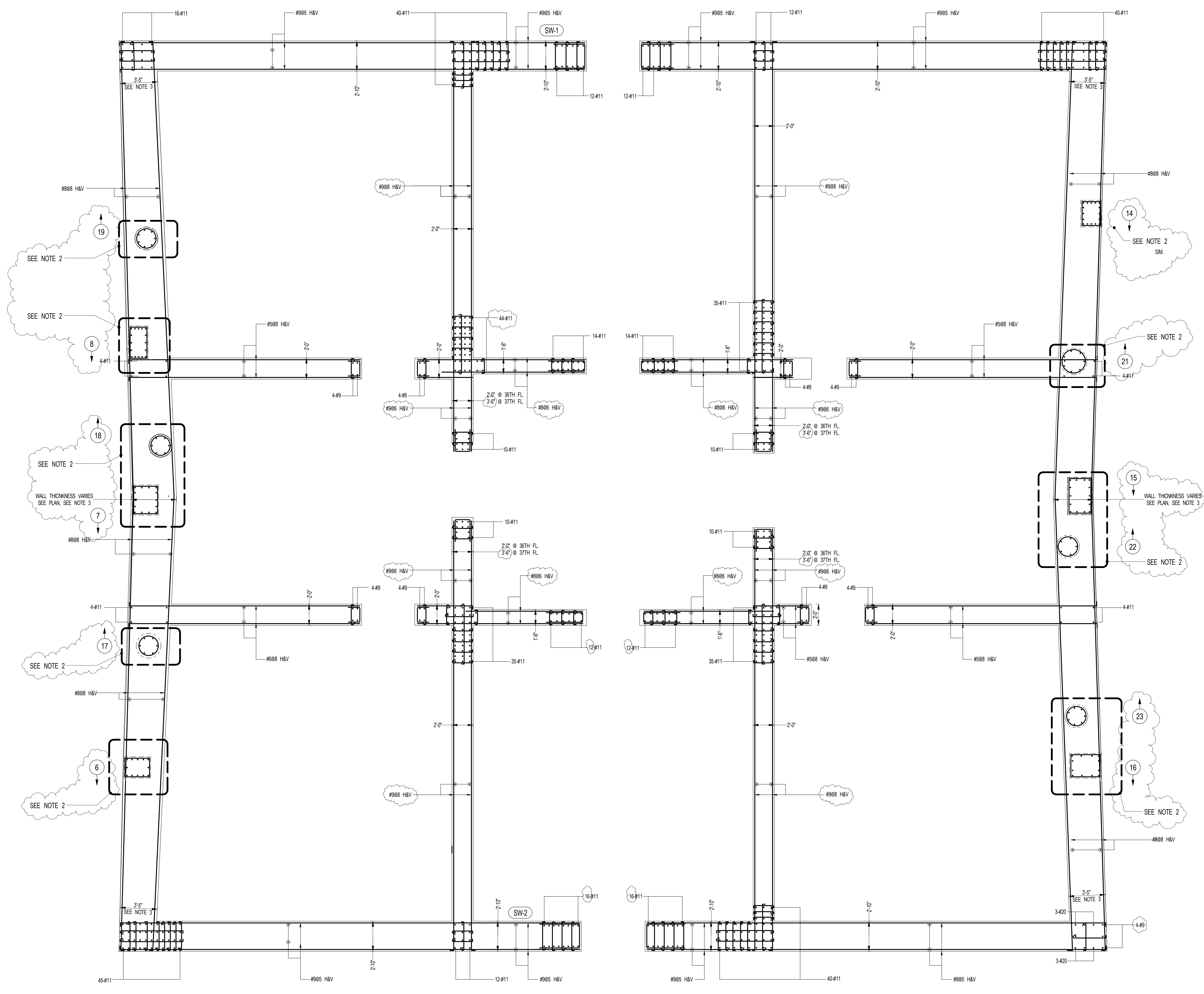
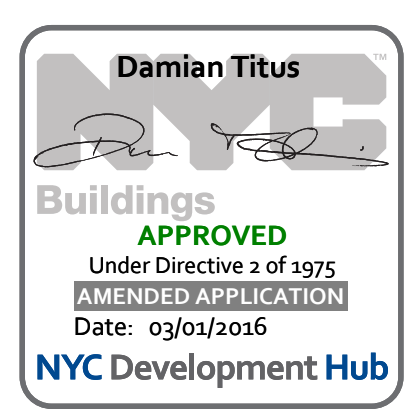
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1/26/2016 7:33:03 PM

DRAWING SCALE
As indicated

PROJECT NUMBER
2012088

TITLE
SHEARWALL REINFORCEMENT DETAILS IV
- 36TH TO U/S OF 38TH FLOOR

DRAWING NO.
S-943.01



1 SHEARWALL REINFORCEMENT DETAILS IV - 36TH TO U/S OF 38TH FLOOR
SCALE: 1/4" = 1'-0"

- NOTES:
- SEE DRAWING SHEET FOR NOTES AND LEGEND.
 - FOR COLUMN REIN. AND DEVELOPMENT, REFER TO S-60. TIES OMITTED FOR CLARITY. SEE TYPICAL COLUMN DETAILS ON S-92.
 - BELT WALL THICKNESS VARIES ON PLAN. INSIDE FACE OF BELT WALL IS VERTICAL. OUTSIDE FACE OF WALL SLOPES.
 - FOR BALANCE OF INFORMATION, SEE S-90 SERIES DRAWINGS.

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KEY PLAN

NO. ISSUE SET **REV DATE**

1	DESIGN DEVELOPMENT SET	1	12-22-14
2	NYCT SUBMISSION	2	12-23-14
3	UPDATED DOB SET	3	01-20-15
4	70% CD	4	04-27-15
5	80% CD	5	07-02-15
6	80% PARTIAL CD ISSUE - FLOORS	6	09-03-15
7	SC-12		
8	80% CD	7	11-24-15

DATE OF PRINT
12/26/2016 7:33:10 PM

DRAWING SCALE
As indicated

PROJECT NUMBER
2012058

TITLE
SHEARWALL REINFORCEMENT DETAILS V - 38TH TO US OF 68TH FLOOR

DRAWING NO.
S-944.01

STAMP

DATE OF PRINT
12/26/2016 7:33:10 PM

DRAWING SCALE
As indicated

PROJECT NUMBER
2012058

TITLE
SHEARWALL REINFORCEMENT DETAILS V - 38TH TO US OF 68TH FLOOR

DRAWING NO.
S-944.01

STAMP

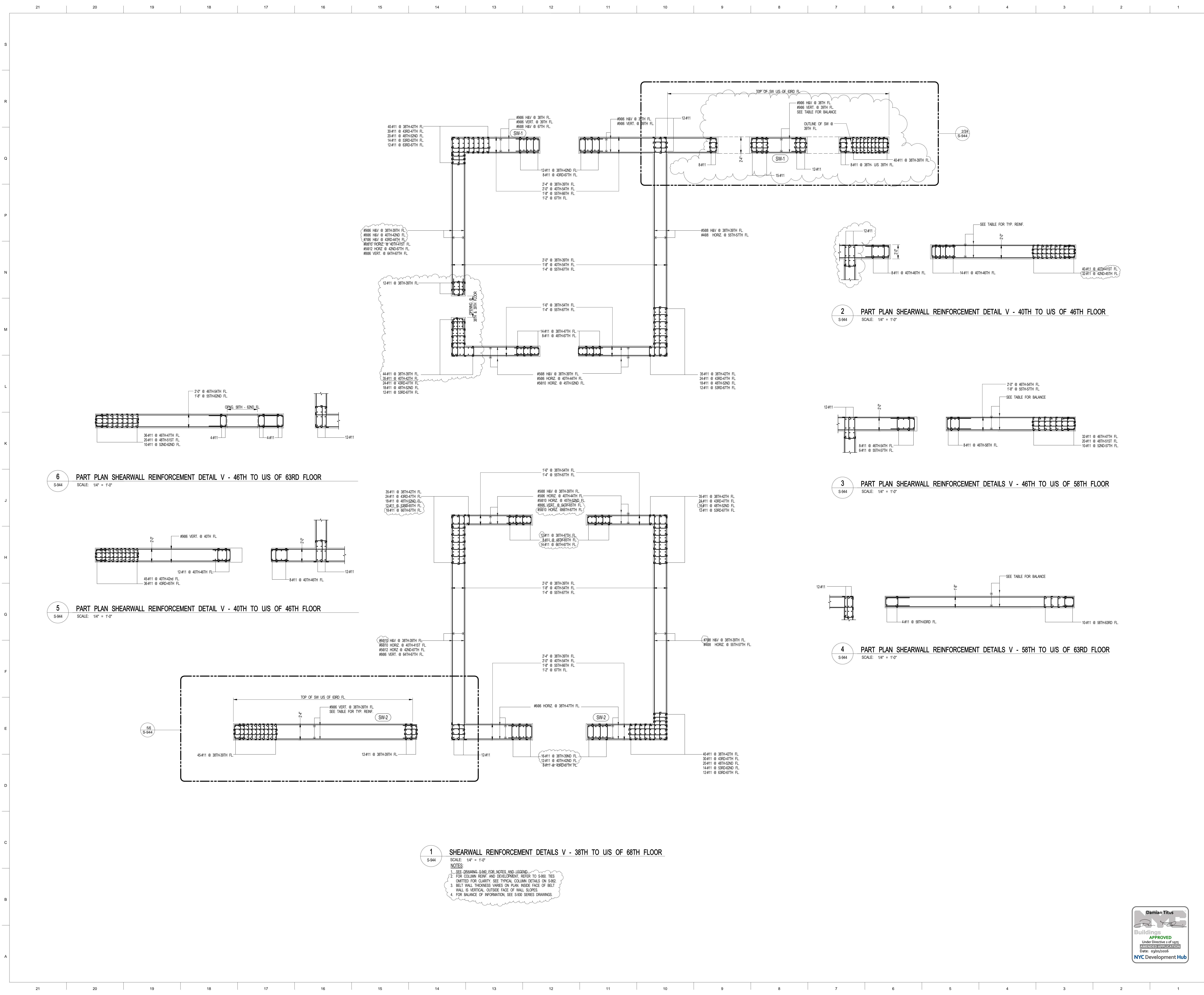
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DRAWING SCALE
As indicated

PROJECT NUMBER
2012058

TITLE
SHEARWALL REINFORCEMENT DETAILS V - 38TH TO US OF 68TH FLOOR

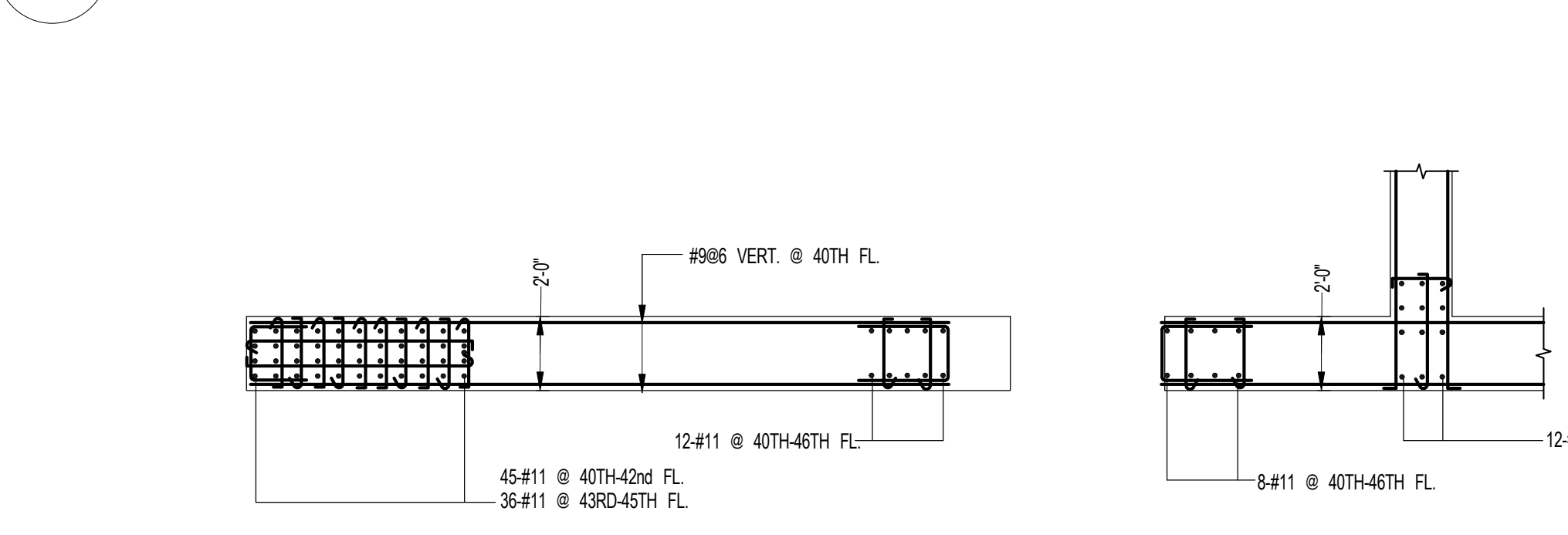
DRAWING NO.
S-944.01



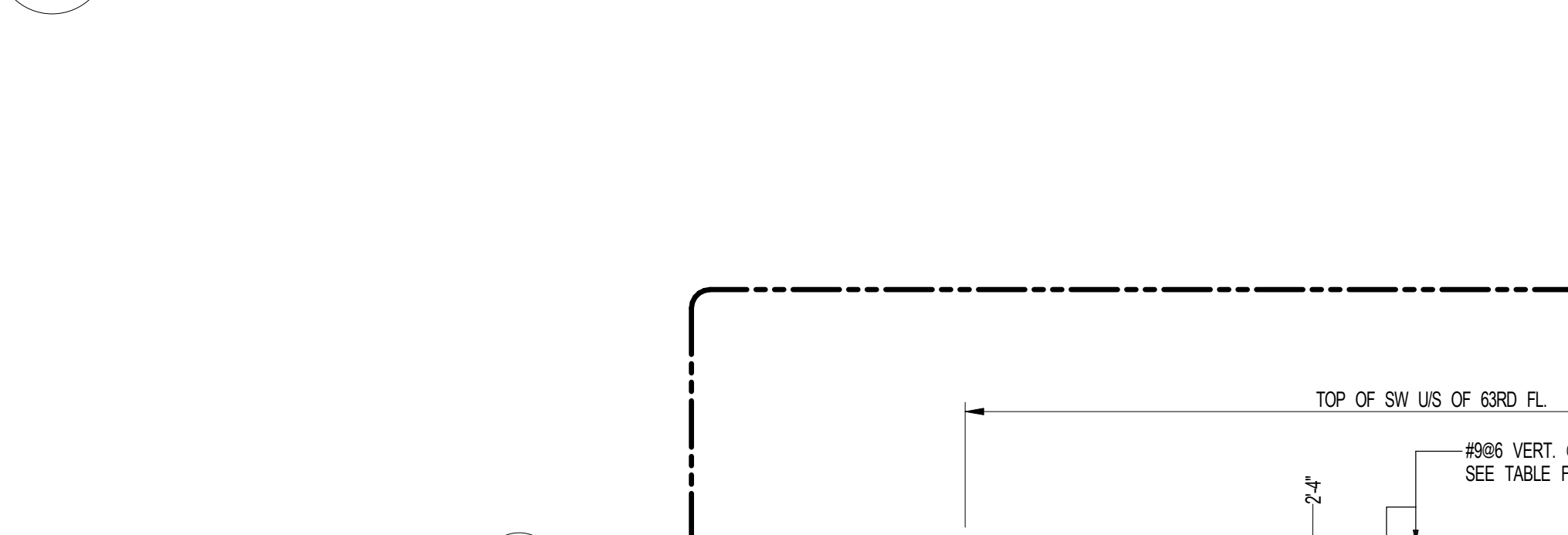
1 SHEARWALL REINFORCEMENT DETAILS V - 38TH TO US OF 68TH FLOOR
SCALE: 1/4" = 1'-0"

NOTES:
1. SEE DRAWING S-410 FOR NOTES AND LEGEND.
2. FOR COLUMN REIN. AND DEVELOPMENT, REFER TO S-860 TIES.
3. OMITTED FOR CLARITY. SEE TYPICAL COLUMN DETAILS ON S-862.
4. BELT WALL THICKNESS VARIES ON PLAN, INSIDE FACE OF BELT WALL IS VERTICAL, OUTSIDE FACE OF WALL SLOPES.
5. FOR BALANCE OF INFORMATION, SEE S-830 SERIES DRAWINGS.

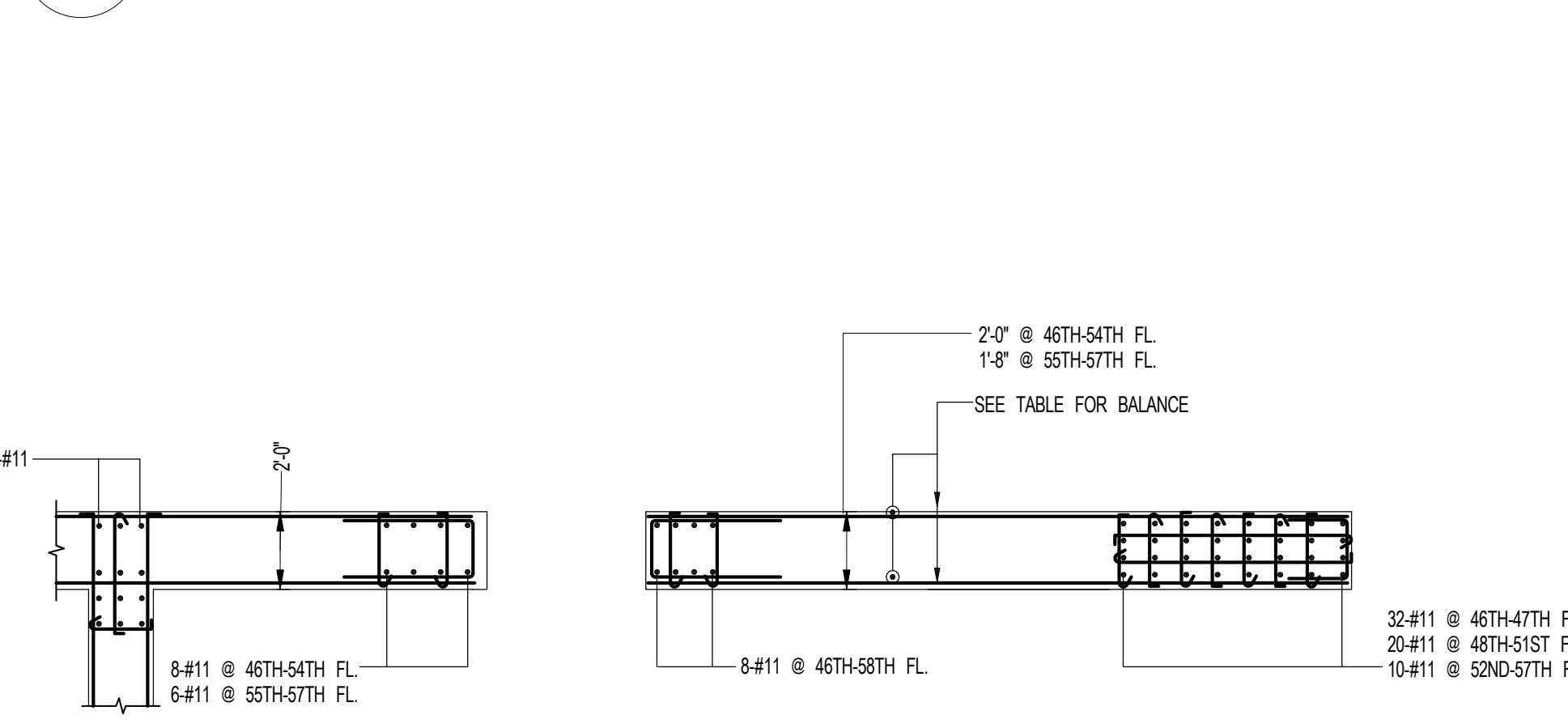
6 PART PLAN SHEARWALL REINFORCEMENT DETAIL V - 46TH TO US OF 63RD FLOOR
SCALE: 1/4" = 1'-0"



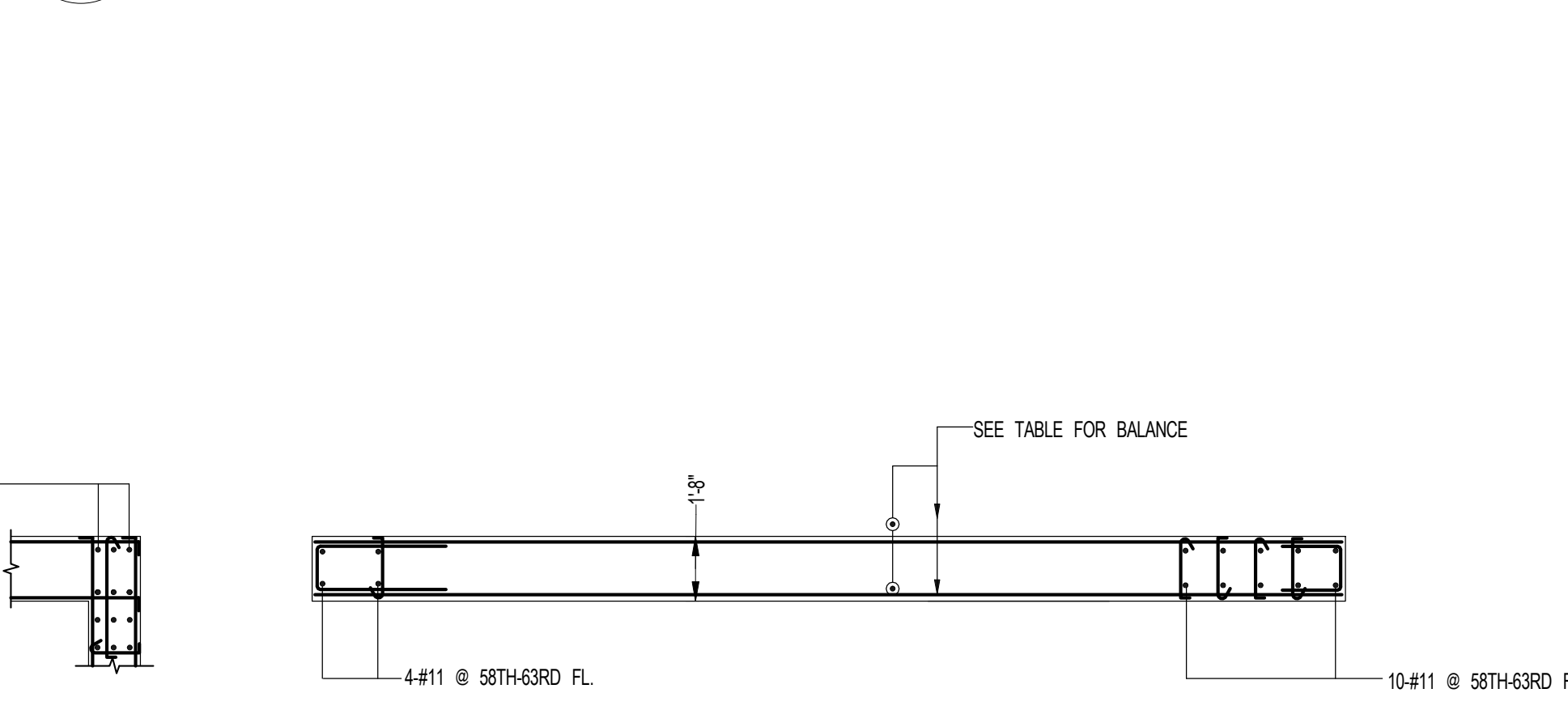
5 PART PLAN SHEARWALL REINFORCEMENT DETAIL V - 40TH TO US OF 46TH FLOOR
SCALE: 1/4" = 1'-0"



2 PART PLAN SHEARWALL REINFORCEMENT DETAIL V - 40TH TO US OF 46TH FLOOR
SCALE: 1/4" = 1'-0"



3 PART PLAN SHEARWALL REINFORCEMENT DETAILS V - 46TH TO US OF 58TH FLOOR
SCALE: 1/4" = 1'-0"



4 PART PLAN SHEARWALL REINFORCEMENT DETAILS V - 58TH TO US OF 63RD FLOOR
SCALE: 1/4" = 1'-0"



S-944

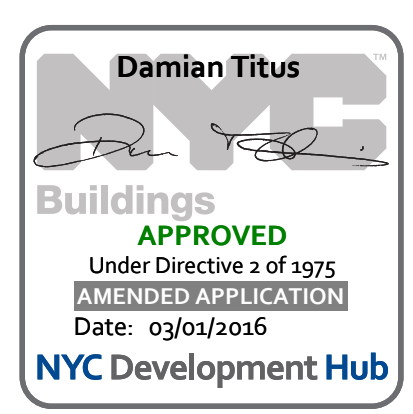
S-944

S-944

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S-944

S-944



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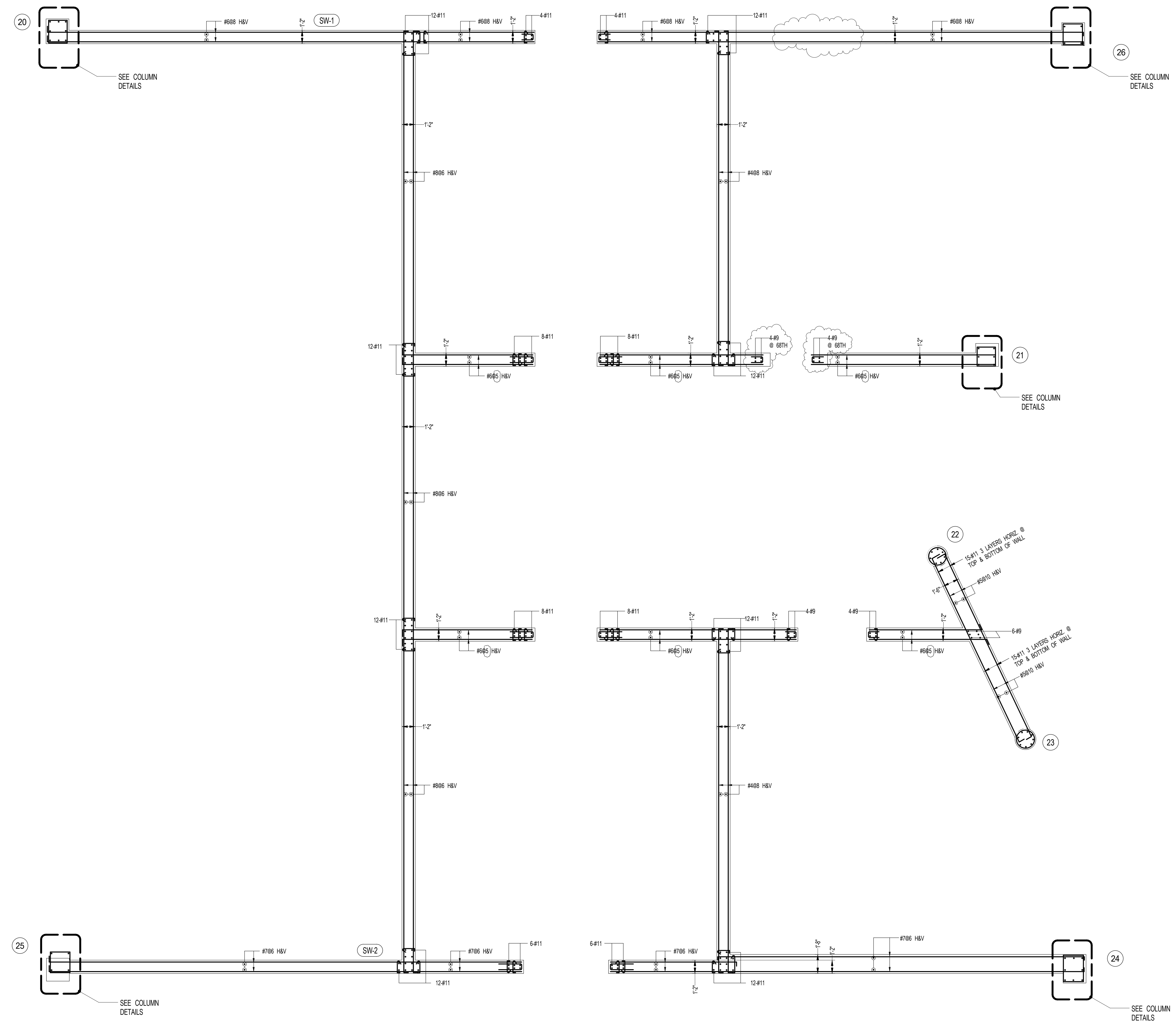
ACOUSTICAL CONSULTANTS:
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Nelson Byrd Woltz
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SHEET NOTES:

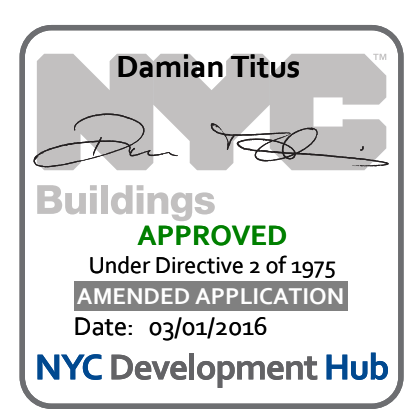
KEY PLAN

NO	ISSUE SET	REV	DATE
1	EARLY FOUNDATION PACKAGE	1	02-01-13
2	DESIGN DEVELOPMENT SET	2	12-22-14
3	NYCT SUBMISSION	3	12-23-14
4	UPDATED DOB SET	4	01-20-15
5	70% CD	5	04-27-15
6	85% CD	6	07-02-15
7	80% PARTIAL CD ISSUE - FLOORS	7	09-03-15
8	SC-12	8	11-24-15
9	95% CD	8	11-24-15
10			
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22			



1 SHEARWALL REINFORCEMENT DETAILS VI - 68TH TO U/S OF BULKHEAD ROOF
SCALE: 1/4" = 1'-0"

NOTES:
1. SEE DRAWING S-945 FOR NOTES AND LEGEND.
2. FOR COLUMN REIN. AND DEVELOPMENT, REFER TO S-945. TIES OMITTED FOR CLARITY. SEE TYPICAL COLUMN DETAILS ON S-945.
3. BELT WALL THICKNESS SHOWN ON PLAN, INSIDE FACE OF BELT WALL IS VERTICAL, OUTSIDE FACE OF WALL SLOPES.
4. FOR BALANCE OF INFORMATION, SEE S-930 SERIES DRAWINGS.



STAMP

DATE OF PRINT:
1/26/2016 7:33:13 PM

DRAWING SCALE:
As indicated

PROJECT NUMBER:
2012058

TITLE:
SHEARWALL REINFORCEMENT DETAILS VI
- 68TH TO U/S OF BULKHEAD ROOF

DRAWING NO.:
S-945.01

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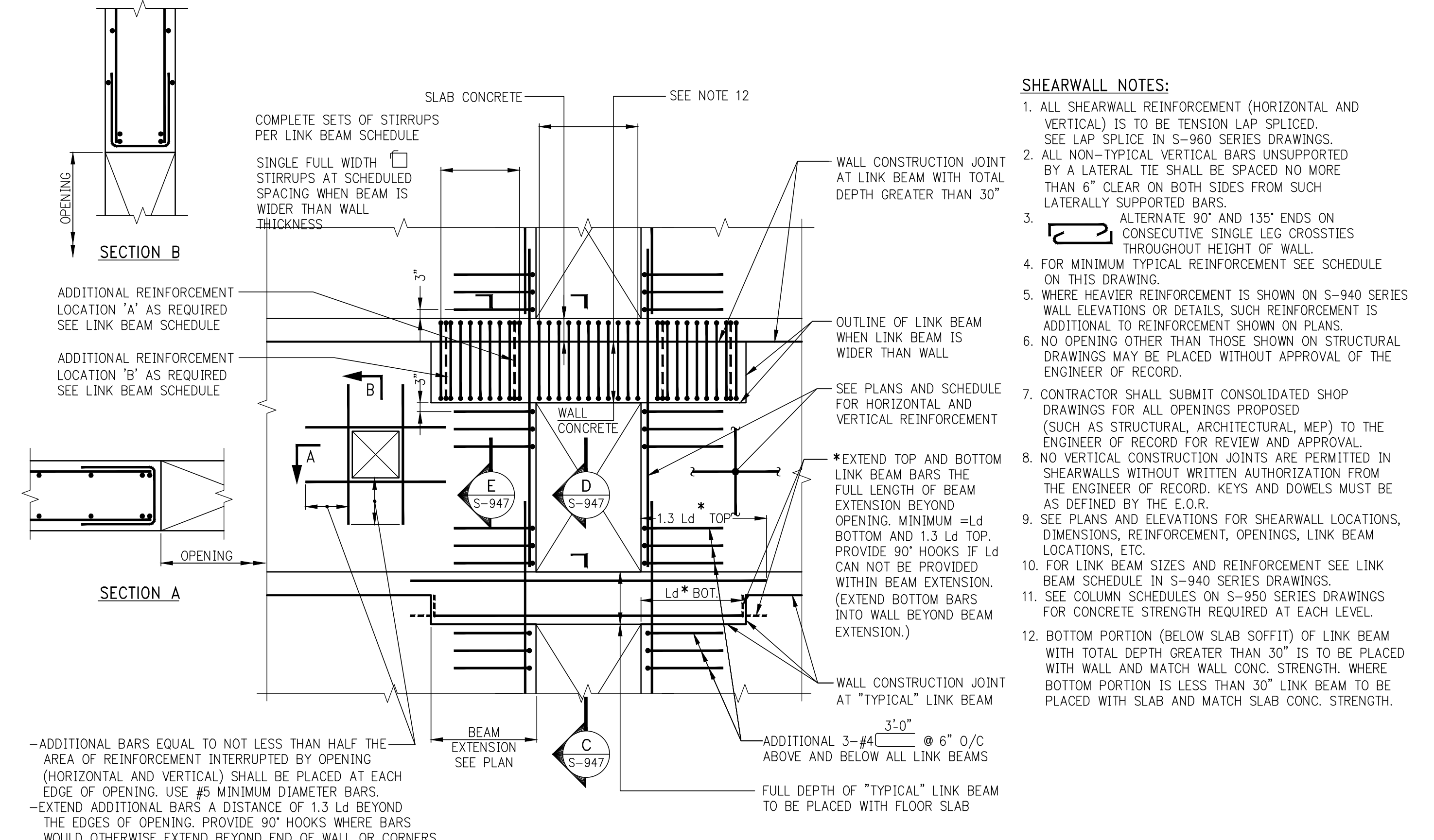
EXTERIOR WALL CONSULTANT:
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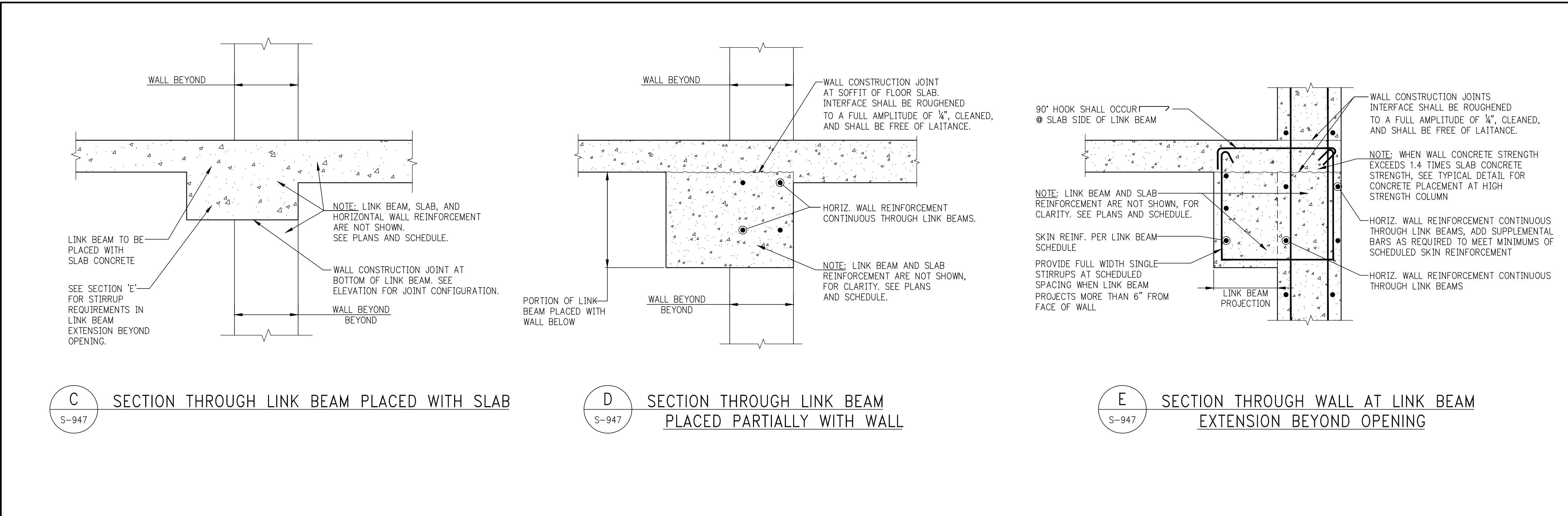
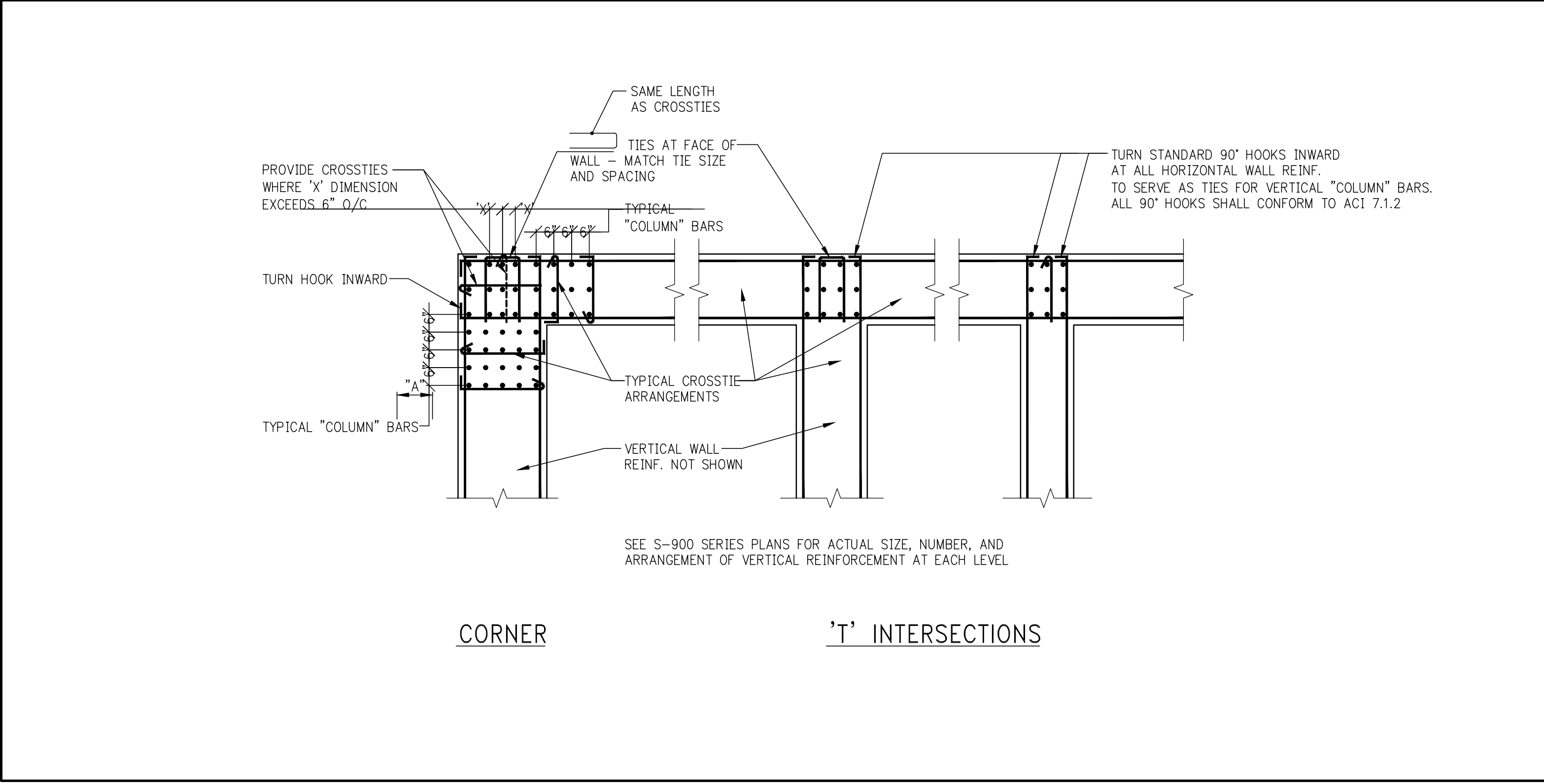
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TYPICAL REINFORCEMENT AT LINK BEAMS AND AROUND SHEARWALL OPENINGS



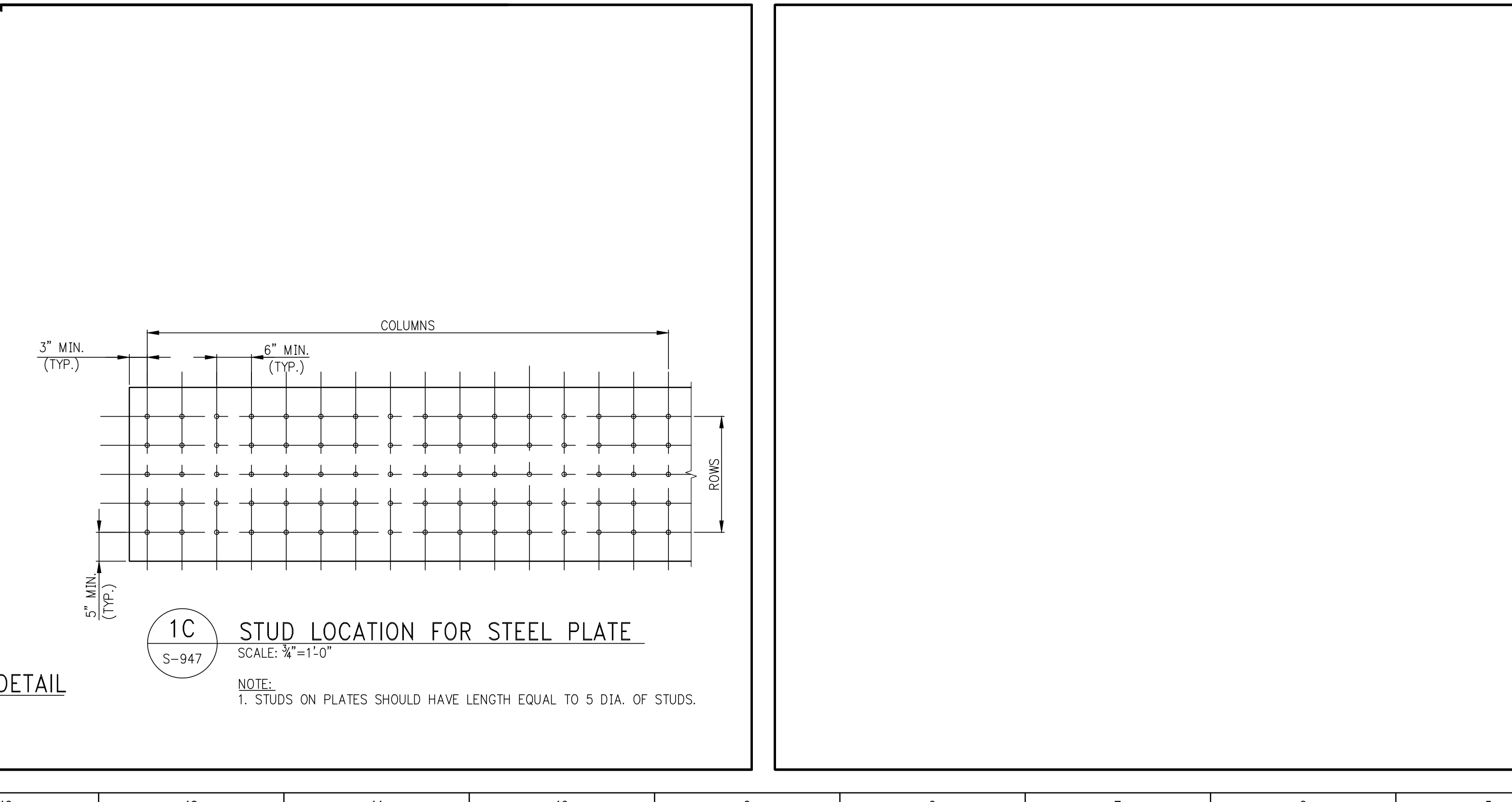
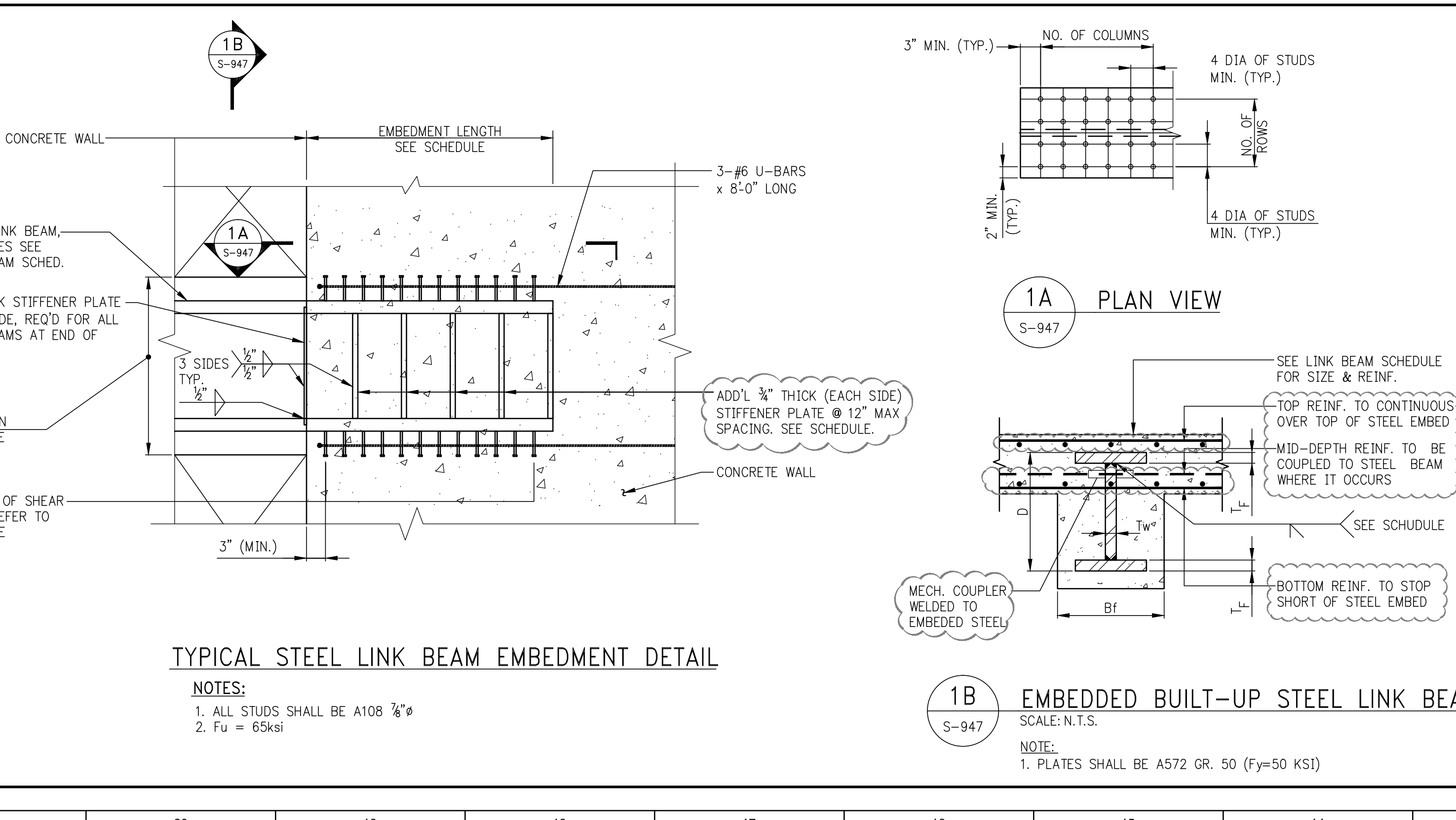
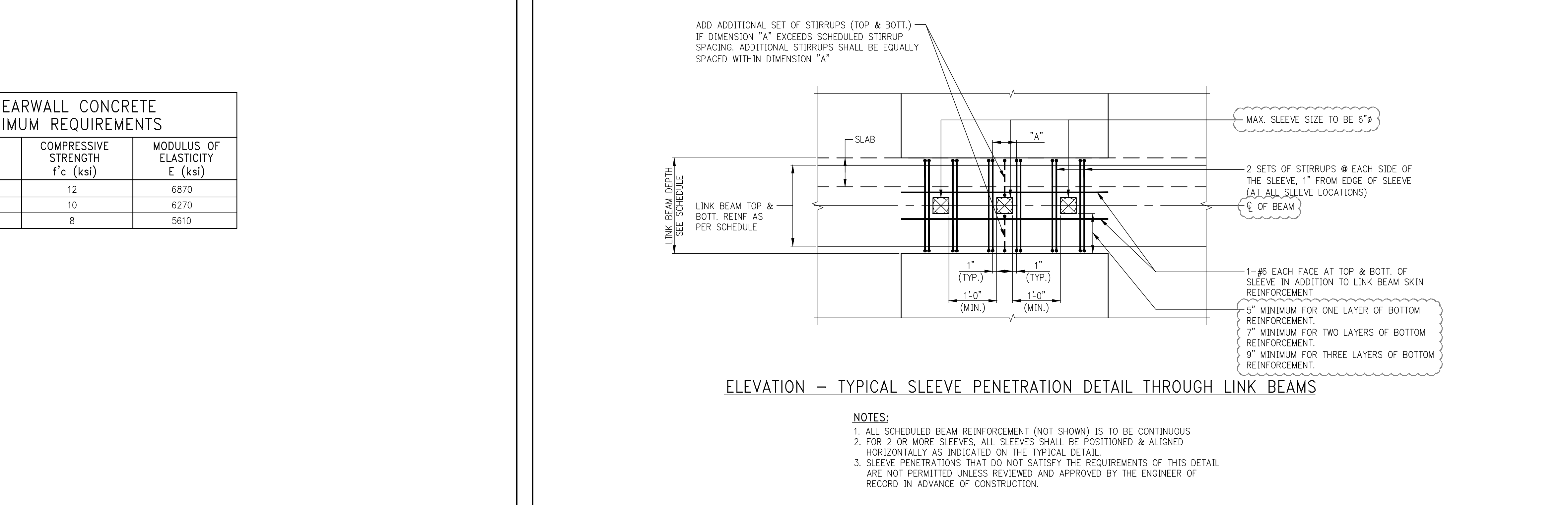
*TYPICAL MINIMUM SHEARWALL REINFORCEMENT	
WALL THICKNESS (INCHES)	HORIZONTAL AND VERTICAL EACH FACE
UP TO 12	#4@12
12+ TO 16	#4@10
16+ TO 20	#5@12
20+ TO 24	#5@10
24+ TO 28	#5@12
28+ TO 34	#6@10
34+ TO 40	#7@12
40+ TO 48	#7@10
48+ TO 52	#8@12
52+ TO 60	#8@10

NOTES:
1. THE REINFORCEMENT SHOWN IN THIS TABLE IS THE MINIMUM AMOUNT THAT MUST BE PROVIDED. HEAVIER REINFORCEMENT AND "ADDITIONAL" REINFORCEMENT MAY BE CALLED FOR ON PLANS, ELEVATIONS, OR IN SECTIONS AND DETAILS.

SHEARWALL TIE SCHEDULE		
NON-TYPICAL VERTICAL BAR SIZE	#4 TIES VERTICAL SPACING(S), BUT NOT TO EXCEED WALL THICKNESS (INCHES)	
#6	12	
#7	14	
#8	16	
#9	18	
#10	20	
#11	22	
BUNDLE OF 2 (UP TO #11)	18	
#14, #16, #20	24	

NOTES:
1. LOCATE LOWEST SET OF TIES 5/2 ABOVE TOP OF SLAB.
2. LOCATE TOP SET OF TIES WITHIN 5/2 OF BOTTOM REINFORCEMENT IN SLAB.

SHEARWALL CONCRETE MINIMUM REQUIREMENTS		
FLOOR	COMPRESSIVE STRENGTH f'c (ksi)	MODULUS OF ELASTICITY E (ksi)
CELLAR-40*	12	6870
41"-55"	10	6270
56"-ROOF	8	5610



ISSUE SET

NO	ISSUE SET	REV	DATE
1	EARLY FOUNDATION PACKAGE	02-01-13	
2	REVISED SD ISSUE	05-06-13	
3	REVISED SD ISSUE	08-21-13	
4	CAISSON PRICING SET	11-08-13	
5	FINAL SD ISSUE	11-25-13	
6	FOUNDATION BID SET	06-02-14	
7	FOUNDATION BID SET	07-11-14	
8	REVISED SD	08-22-14	
9	NYCT SUBMISSION	10-15-14	
10	SUPERSTRUCTURE EARLY BID	11-17-14	
11	SET		
12	NYCT SUBMISSION	11-18-14	
13	DOB SUBMISSION	12-06-14	
14	DESIGN DEVELOPMENT SET	12-23-14	
15	NYCT SUBMISSION	12-23-14	
16	UPDATED DOB SET	01-20-15	
17	NYCT SUBMISSION	01-22-15	
18	70% CD	04-27-15	
19	80% CD	07-02-15	
20	80% PARTIAL CD ISSUE - FLOORS SC-12	09-03-15	
21	80% CD	11-24-15	
22	PAA #2	01-26-16	

STAMP

DATE OF PRINT
2016-01-26

DRAWING SCALE

DRAWING NUMBER
2012068

TITLE
TYPICAL SHEARWALL DETAILS

DRAWING NO.
S-947.02

Damian Titus
Buildings
APPROVED
Under Direction of a Professional Engineer
LICENSED APPLICATION
Date: 09/01/2016

NYC Development Hub

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SHEET NOTES:

NO	ISSUE SET	REV	DATE
70%	CD	04	27-15
80%	CD	02	20-15
90% PARTIAL CD	ISSUE -	09	03-15
FLOORS SC-12			
90% CD		11	24-15
PAA #2		01	26-16

NO	ISSUE SET	REV	DATE
70%	CD	04	27-15
80%	CD	02	20-15
90% PARTIAL CD	ISSUE -	09	03-15
FLOORS SC-12			
90% CD		11	24-15
PAA #2		01	26-16

NO	ISSUE SET	REV	DATE
70%	CD	04	27-15
80%	CD	02	20-15
90% PARTIAL CD	ISSUE -	09	03-15
FLOORS SC-12			
90% CD		11	24-15
PAA #2		01	26-16

NO	ISSUE SET	REV	DATE
70%	CD	04	27-15
80%	CD	02	20-15
90% PARTIAL CD	ISSUE -	09	03-15
FLOORS SC-12			
90% CD		11	24-15
PAA #2		01	26-16

NO	ISSUE SET	REV	DATE
70%	CD	04	27-15
80%	CD	02	20-15
90% PARTIAL CD	ISSUE -	09	03-15
FLOORS SC-12			
90% CD		11	24-15
PAA #2		01	26-16

STAMP

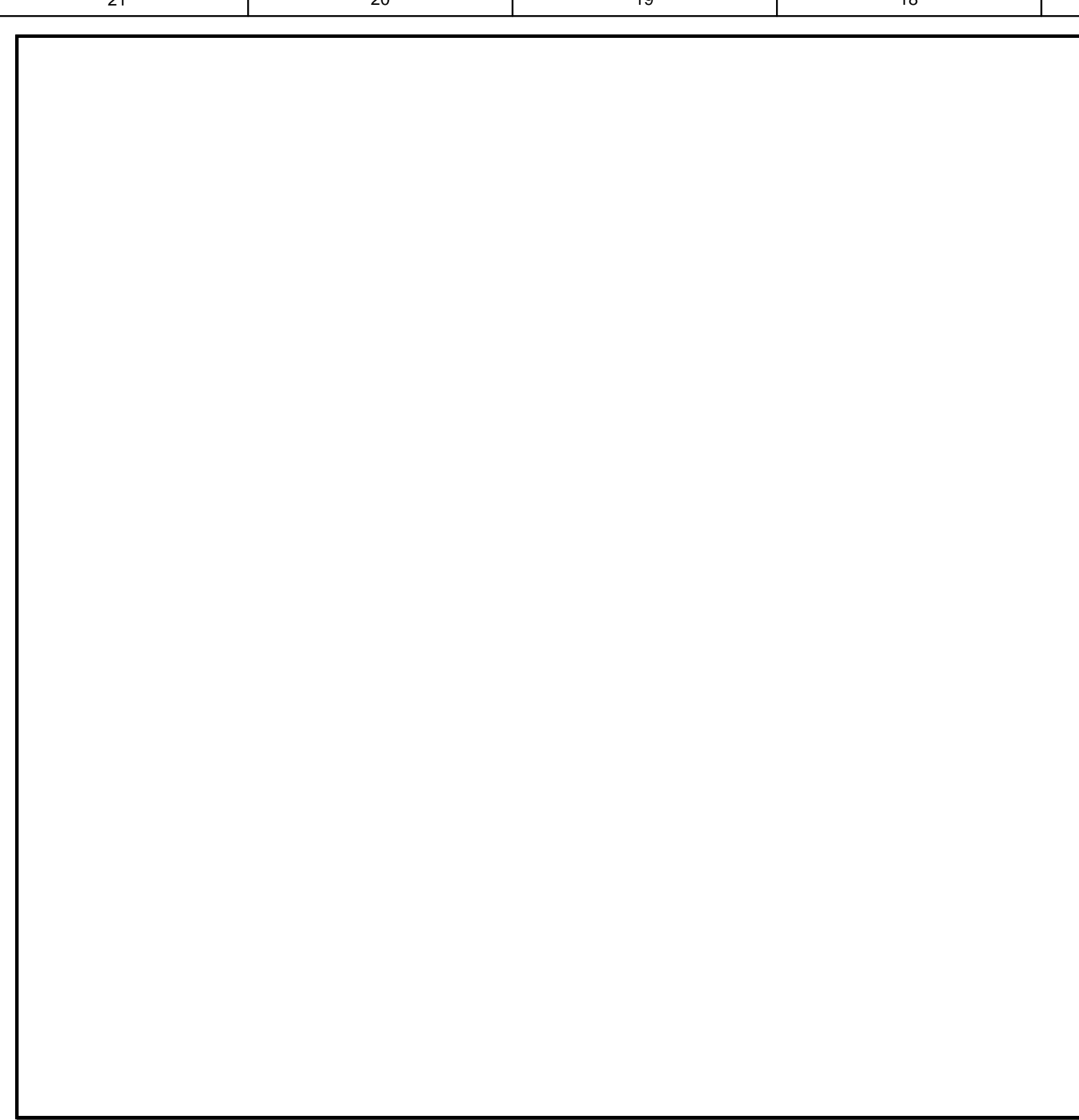
DATE OF PRINT
2016-01-26

DRAWING SCALE

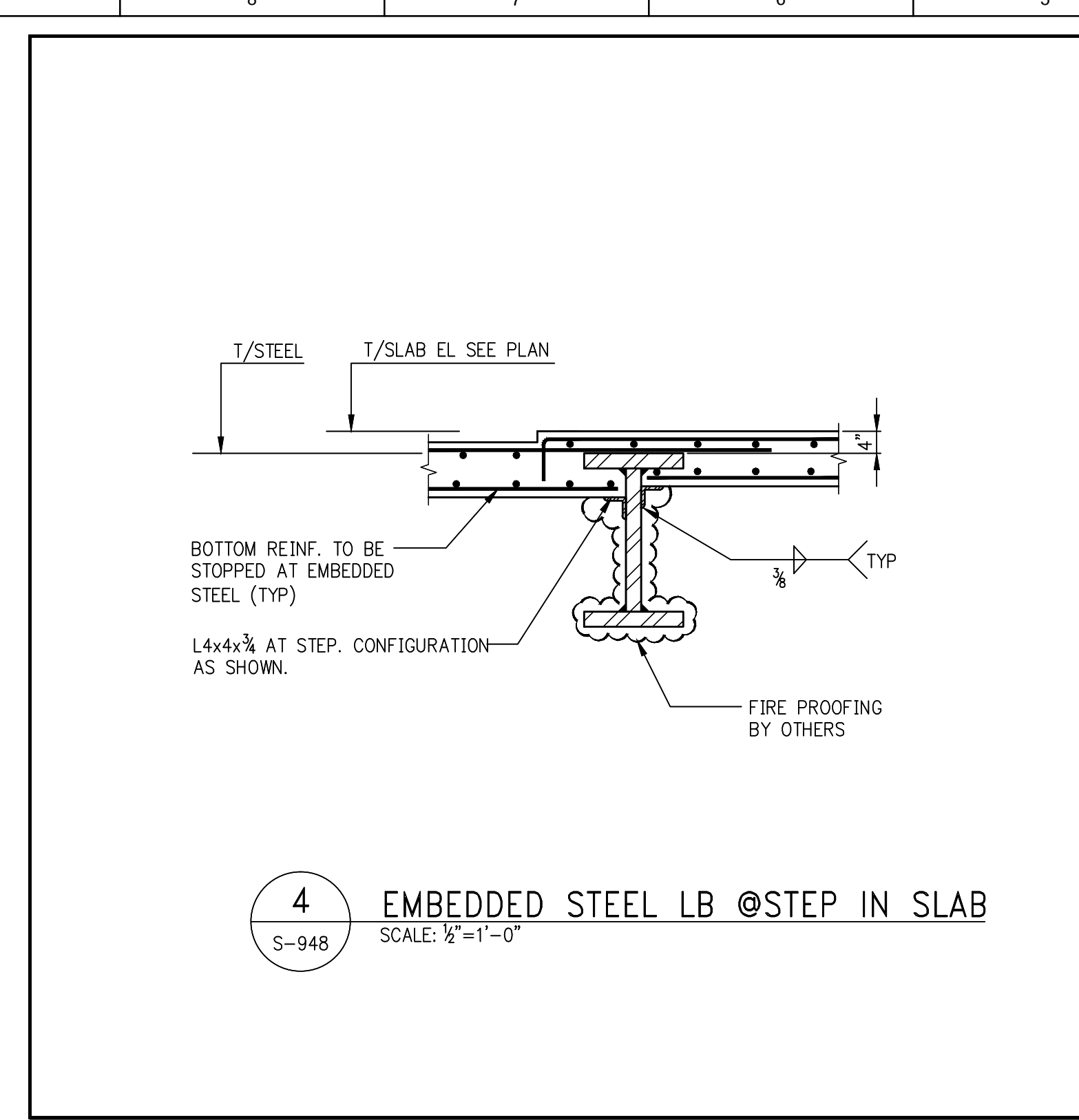
PROJECT NUMBER
2012068

TITLE
EMBEDDED STEEL DETAILS

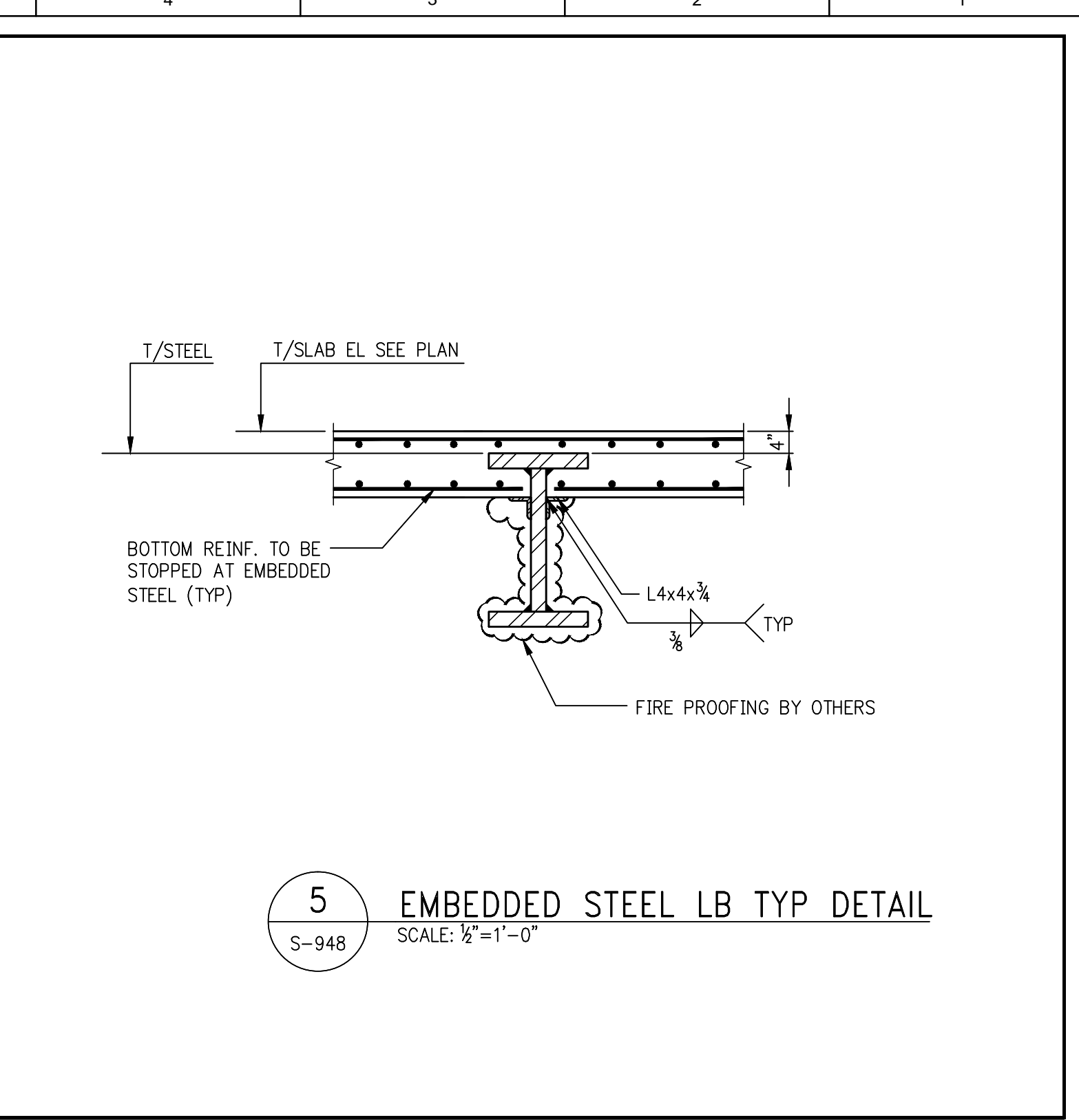
DRAWING NO.
S-948.00



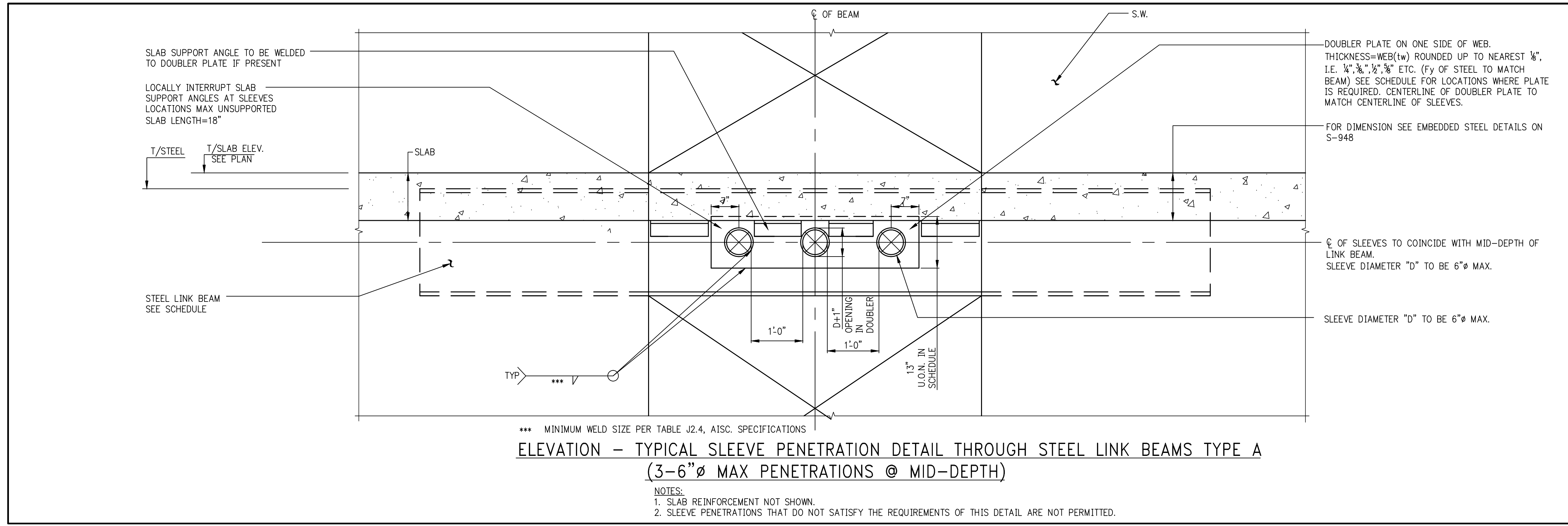
2 LB4 @ 6TH FLOOR
SCALE: 3/8"=1'-0"



4 EMBEDDED STEEL LB @STEP IN SLAB
SCALE: 3/8"=1'-0"

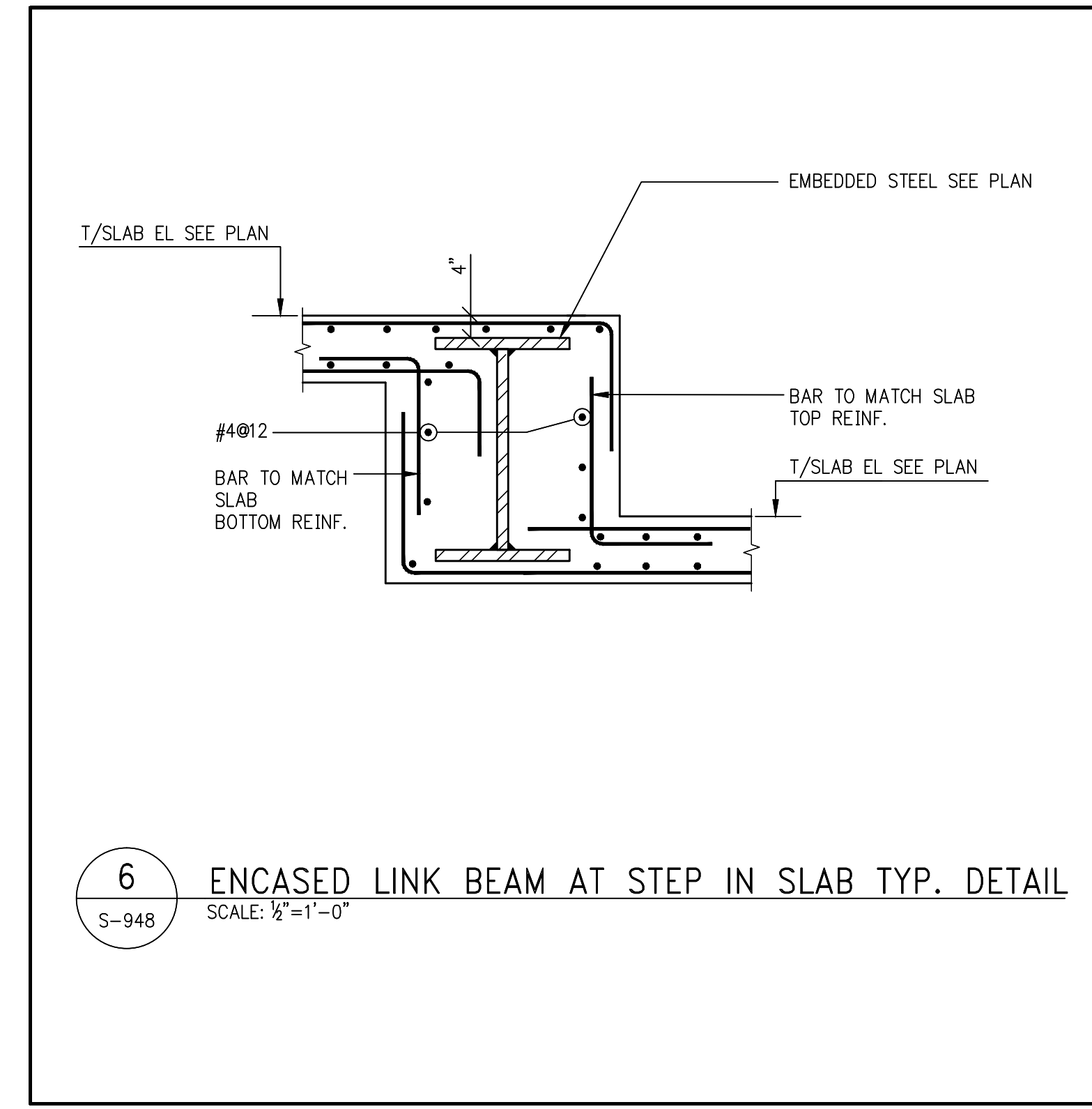


5 EMBEDDED STEEL LB TYP. DETAIL
SCALE: 3/8"=1'-0"

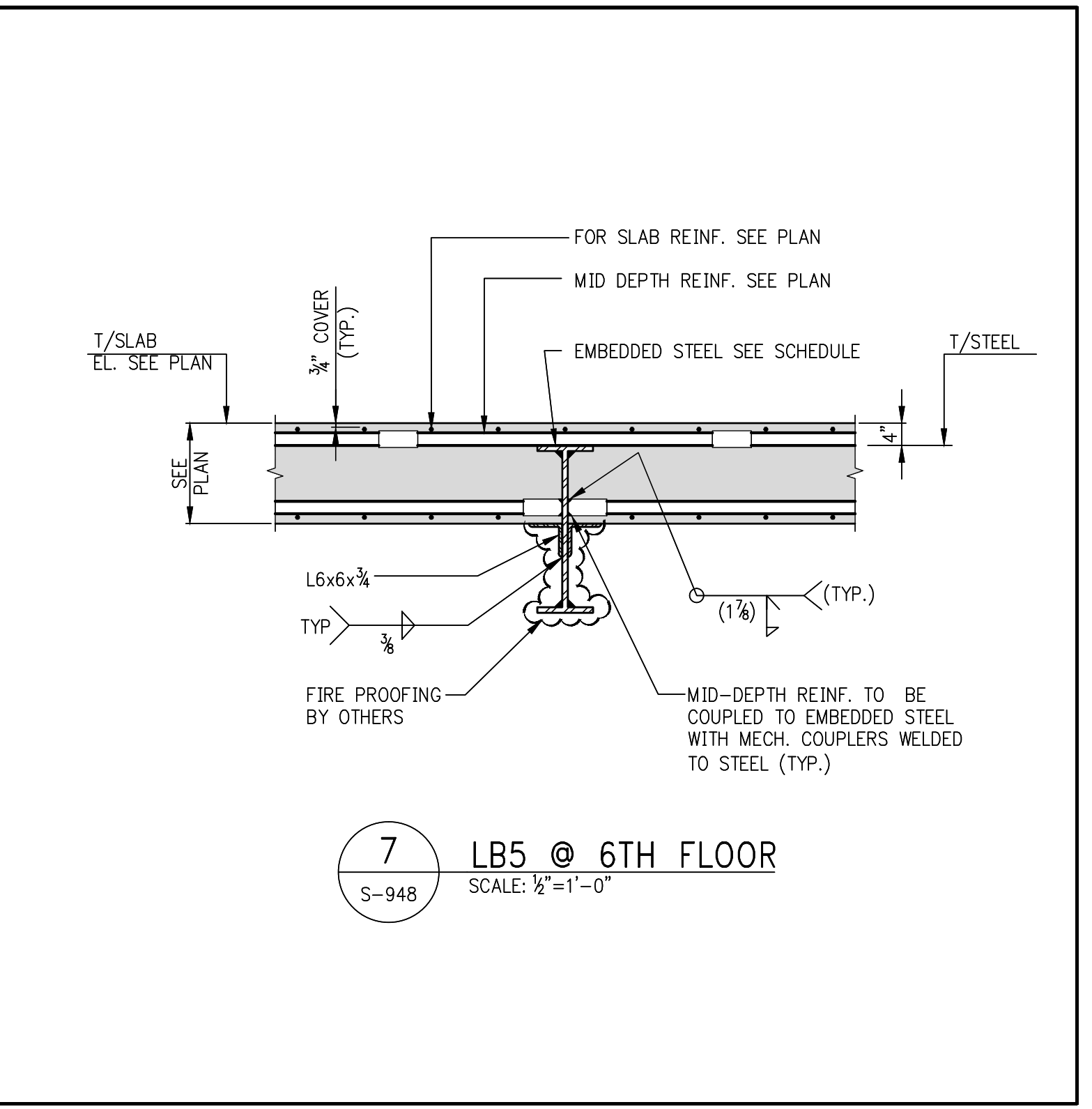


ELEVATION - TYPICAL SLEEVE PENETRATION DETAIL THROUGH STEEL LINK BEAMS TYPE A (3-6" MAX PENETRATIONS @ MID-DEPTH)

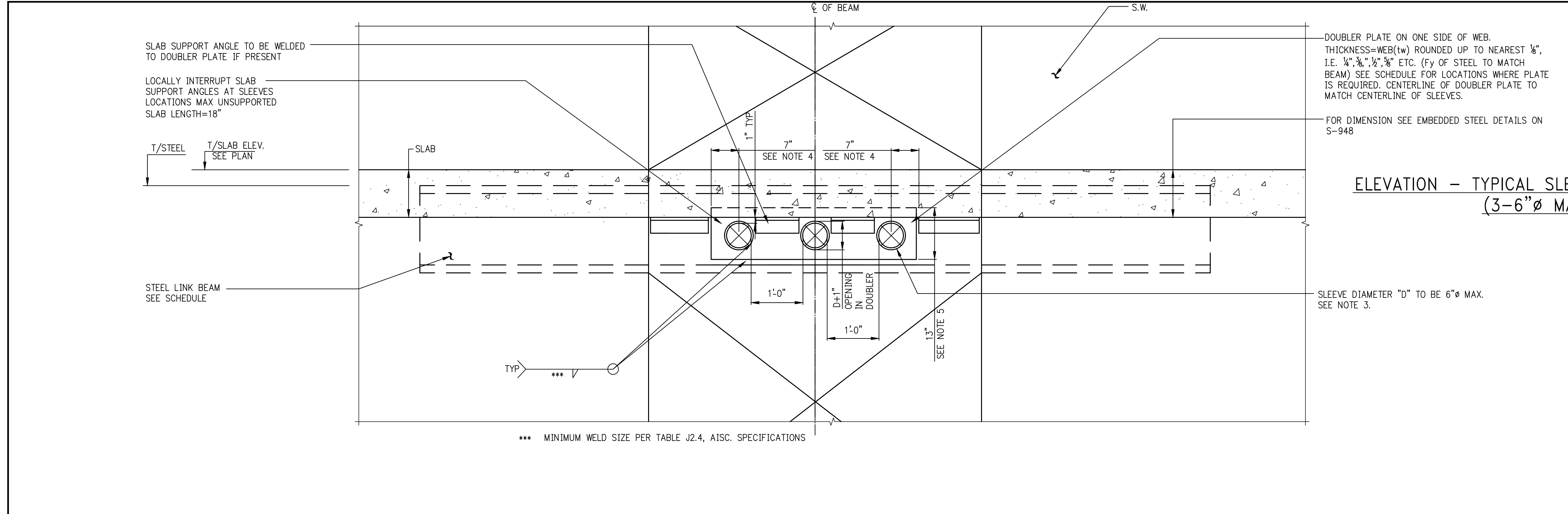
NOTES:
1. SLAB REINFORCEMENT NOT SHOWN.
2. SLEEVE PENETRATIONS THAT DO NOT SATISFY THE REQUIREMENTS OF THIS DETAIL ARE NOT PERMITTED.



6 ENCASED LINK BEAM AT STEP IN SLAB TYP. DETAIL
SCALE: 3/8"=1'-0"

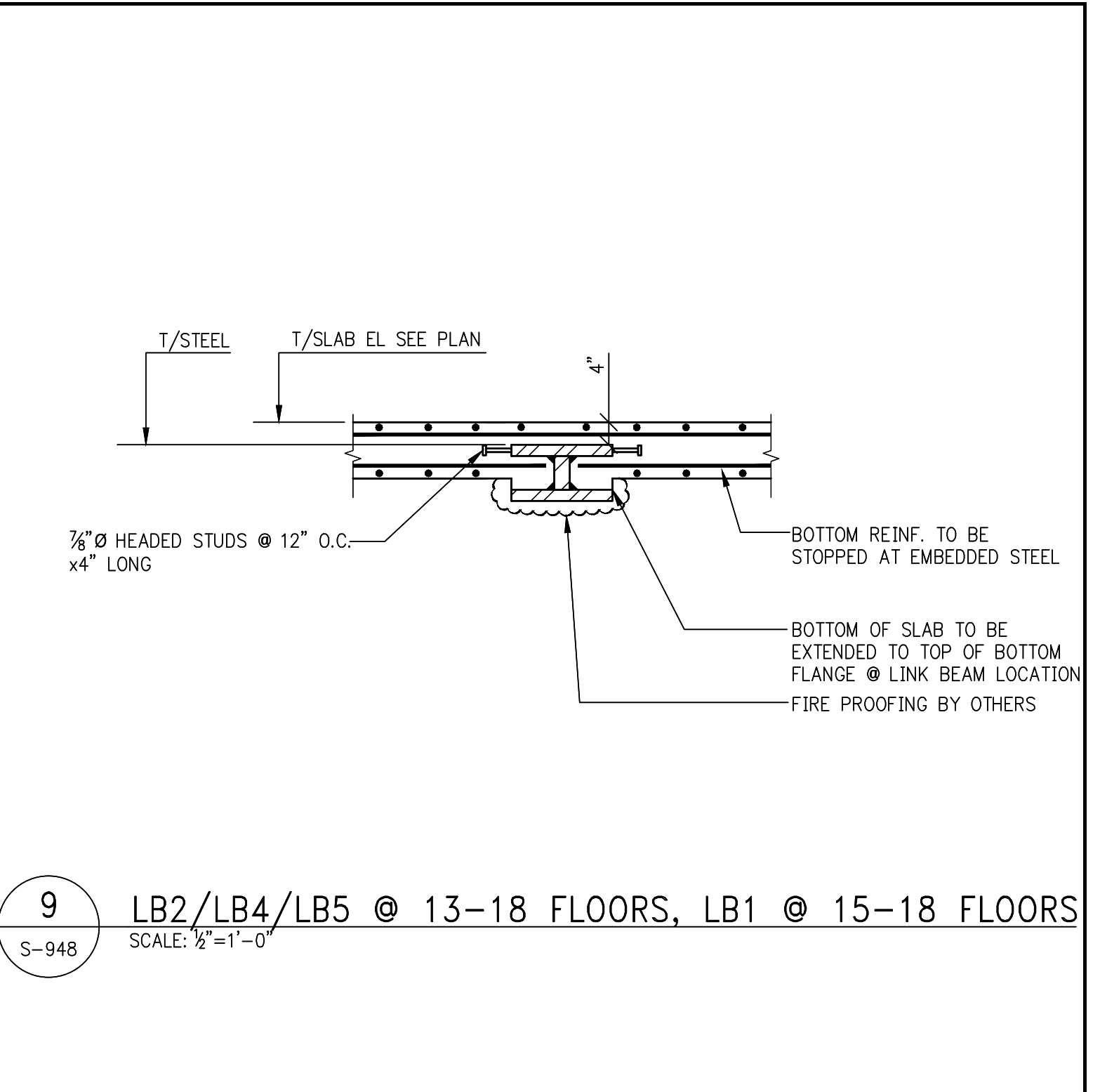


7 LB5 @ 6TH FLOOR
SCALE: 3/8"=1'-0"

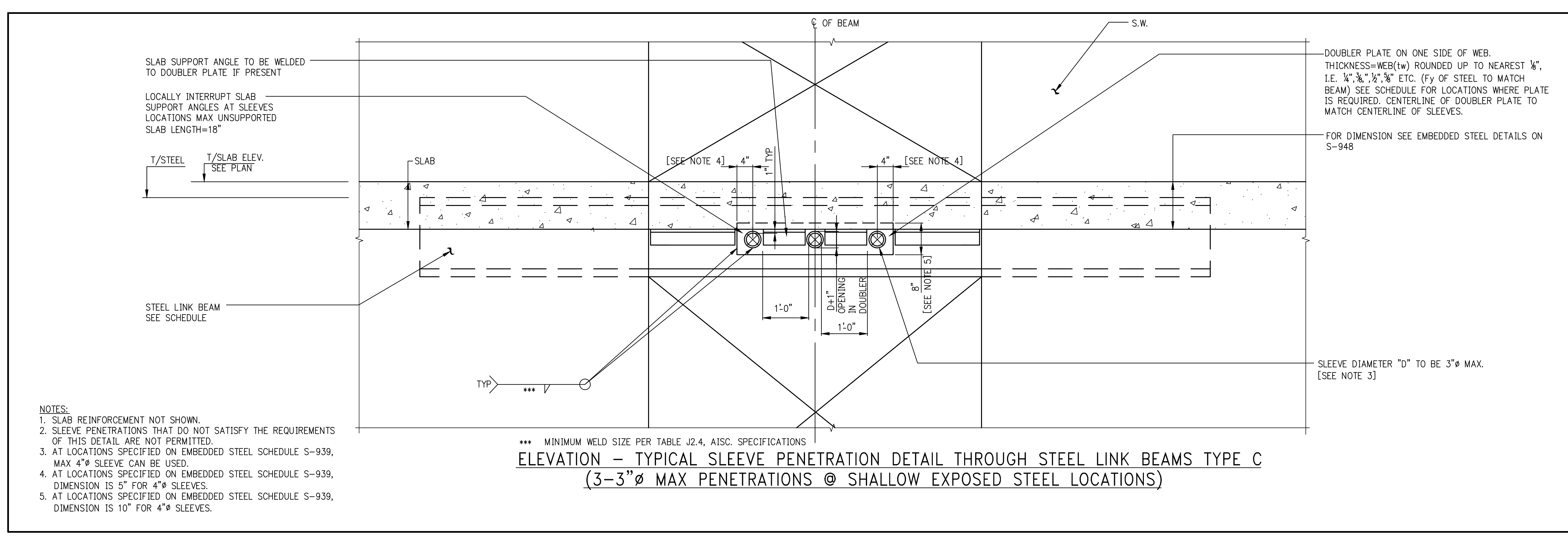


ELEVATION - TYPICAL SLEEVE PENETRATION DETAIL THROUGH STEEL LINK BEAMS TYPE B (3-6" MAX PENETRATIONS @ MID-DEPTH)

NOTES:
1. SLAB REINFORCEMENT NOT SHOWN.
2. SLEEVE PENETRATIONS THAT DO NOT SATISFY THE REQUIREMENTS OF THIS DETAIL ARE NOT PERMITTED.
3. AT LOCATION SPECIFIED ON EMBEDDED STEEL SCHEDULE S-939 MAX 8" SLEEVES CAN BE USED.
4. AT LOCATION SPECIFIED ON EMBEDDED STEEL SCHEDULE S-939 DIMENSION IS 9" FOR 8" SLEEVES.
5. AT LOCATION SPECIFIED ON EMBEDDED STEEL SCHEDULE S-939 DIMENSION IS 17" FOR 8" SLEEVES.

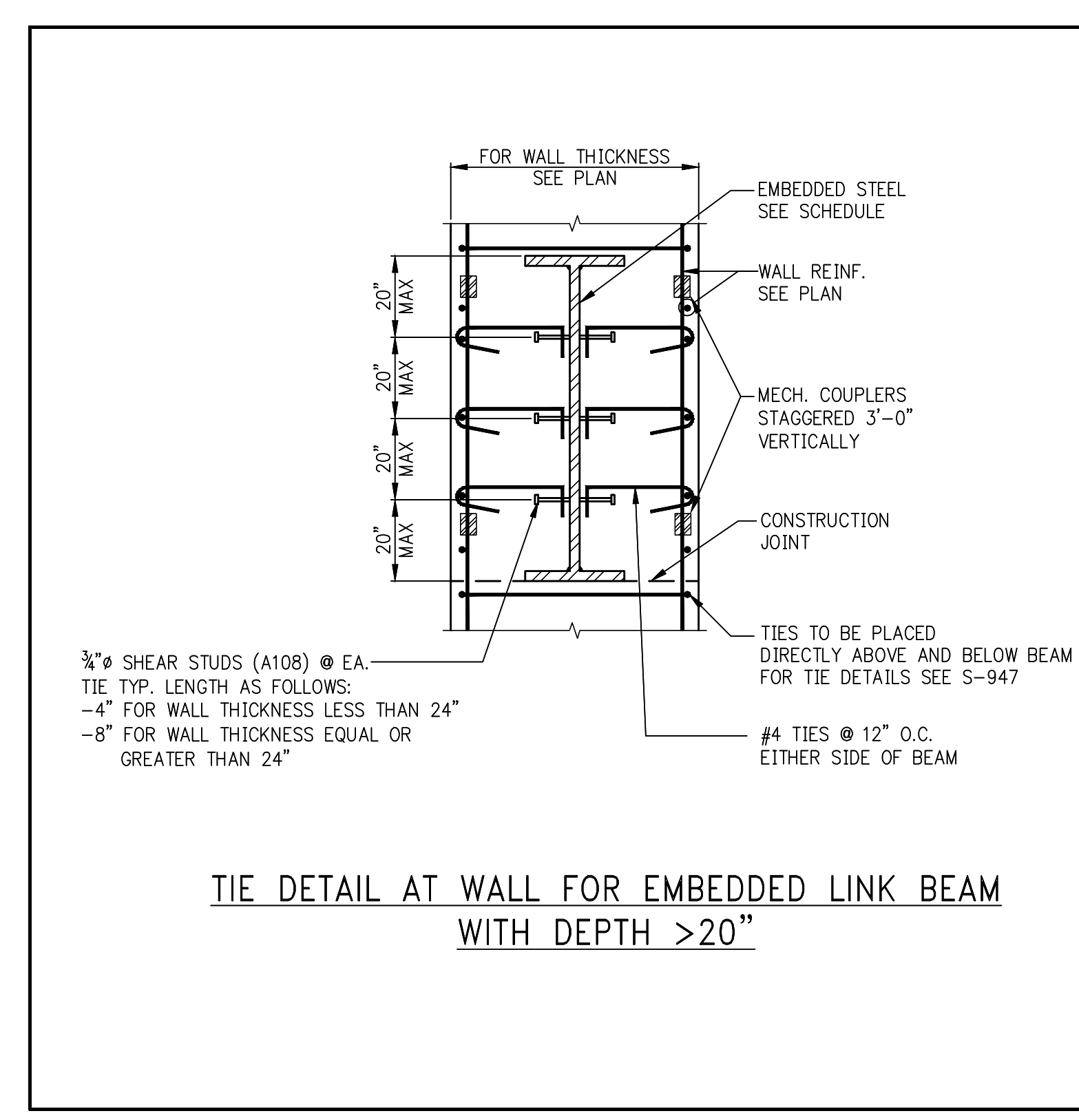


9 LB2/LB4/LB5 @ 13-18 FLOORS, LB1 @ 15-18 FLOORS
SCALE: 3/8"=1'-0"



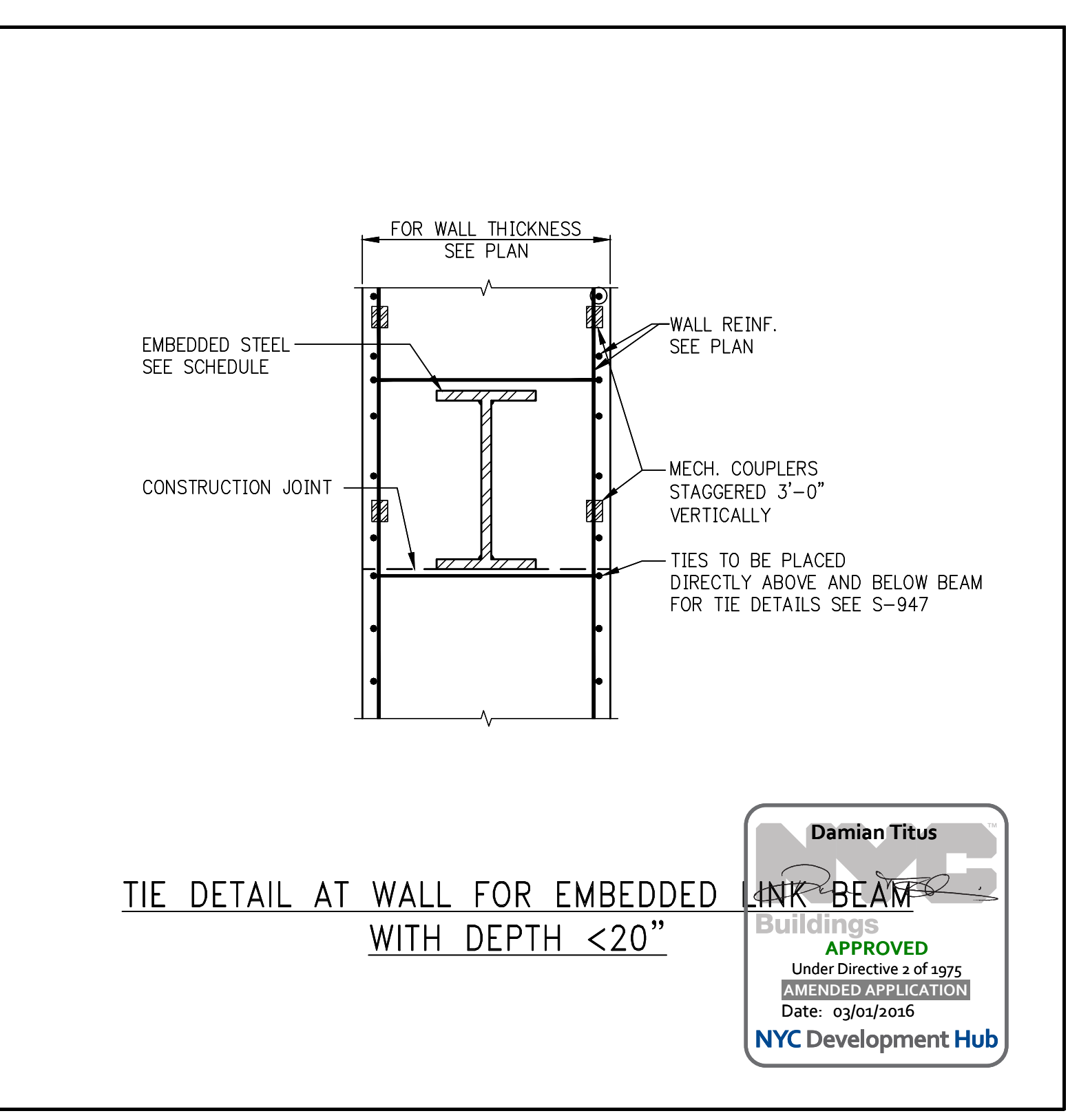
ELEVATION - TYPICAL SLEEVE PENETRATION DETAIL THROUGH STEEL LINK BEAMS TYPE C (3-3" MAX PENETRATIONS @ SHALLOW EXPOSED STEEL LOCATIONS)

NOTES:
1. SLAB REINFORCEMENT NOT SHOWN.
2. SLEEVE PENETRATIONS THAT DO NOT SATISFY THE REQUIREMENTS OF THIS DETAIL ARE NOT PERMITTED.
3. AT LOCATIONS SPECIFIED ON EMBEDDED STEEL SCHEDULE S-939, MAX 4" SLEEVE CAN BE USED.
4. AT LOCATIONS SPECIFIED ON EMBEDDED STEEL SCHEDULE S-939, DIMENSION IS 5" FOR 4" SLEEVES.
5. AT LOCATIONS SPECIFIED ON EMBEDDED STEEL SCHEDULE S-939, DIMENSION IS 10" FOR 4" SLEEVES.



TIE DETAIL AT WALL FOR EMBEDDED LINK BEAM WITH DEPTH >20"

3/8" SHEAR STUDS (A108) @ EA. TIE TYP. LENGTH AS FOLLOWS:
-4" FOR WALL THICKNESS LESS THAN 24"
-8" FOR WALL THICKNESS EQUAL OR GREATER THAN 24"



TIE DETAIL AT WALL FOR EMBEDDED LINK BEAM WITH DEPTH <20"

Damian Titus
APPROVED
Under Direction of 2nd yr. Lic.
DATE: 03/01/2016
NYC Development Hub

COLUMN SCHEDULE table with columns 1-35 and rows 1-28. Contains structural column data including column numbers, sizes, and reinforcement details.

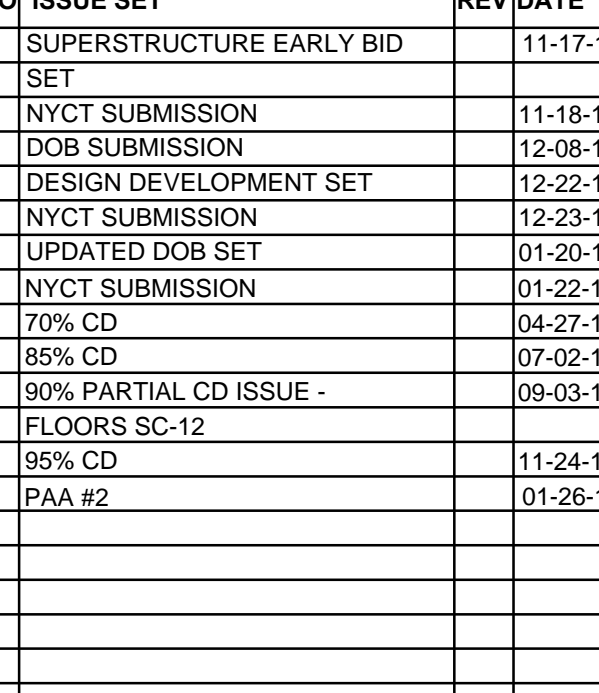
COLUMN SCHEDULE table with columns 1-35 and rows 29-58. Contains structural column data including column numbers, sizes, and reinforcement details.

- NOTES: 1. FIRST COLUMN DIMENSION SHOWN IN SCHEDULE IS IN THE EAST-WEST DIRECTION. 2. LOADS INDICATED ARE ULTIMATE LOADS EXCEPT AT FOUNDATION LEVEL WHERE THEY ARE SERVICE LOADS. 3. FOR CONCRETE STRENGTH REQUIRED SEE COLUMN SCHEDULES. 4. COLUMN SIZES AND REINFORCEMENT ARE SHOWN ONLY WHERE SIZES VARY. 5. HEAVY LINE AT TOP INDICATES TOP OF COLUMN. 6. FOR GENERAL NOTES SEE DWG. F-001. 7. FOR SHEARWALL DETAILS SEE S-950 SERIES DRAWINGS. 8. FOR COLUMN AND REINFORCING DETAILS SEE S-950 SERIES DRAWINGS. 9. BUTTRESS INDICATED AS 'BT' IN COLUMN SCHEDULE. 10. * INDICATES TENSION SPLICE REBARS. 11. □ INDICATES COLUMN BEING PICKED UP. 12. △ INDICATES CHANGES IN HELD FACE OF COLUMN. SEE RESPECTIVE FRAMING PLANS. 13. INDICATES ADDITIONAL LOAD FROM PICK-UP. 14. ▨ INDICATES SLOPING COLUMN. SEE S-952 FOR DETAILS. 15. ▤ INDICATES TYPE-A STEPPED COLUMN. SEE S-952 FOR DETAILS. 16. ▥ INDICATES TYPE-B STEPPED COLUMN. SEE S-952 FOR DETAILS. 17. BELT WALL, OUTRIGGER WALL, TRANSFER GROSSER, ETC. AT LOCATION INDICATED, REIN. AT COLUMN ABOVE. TO BE DEVELOPED TO BOTTOM OF WALL. REIN. AT COLUMN BELOW TO BE DEVELOPED TO TOP OF WALL.

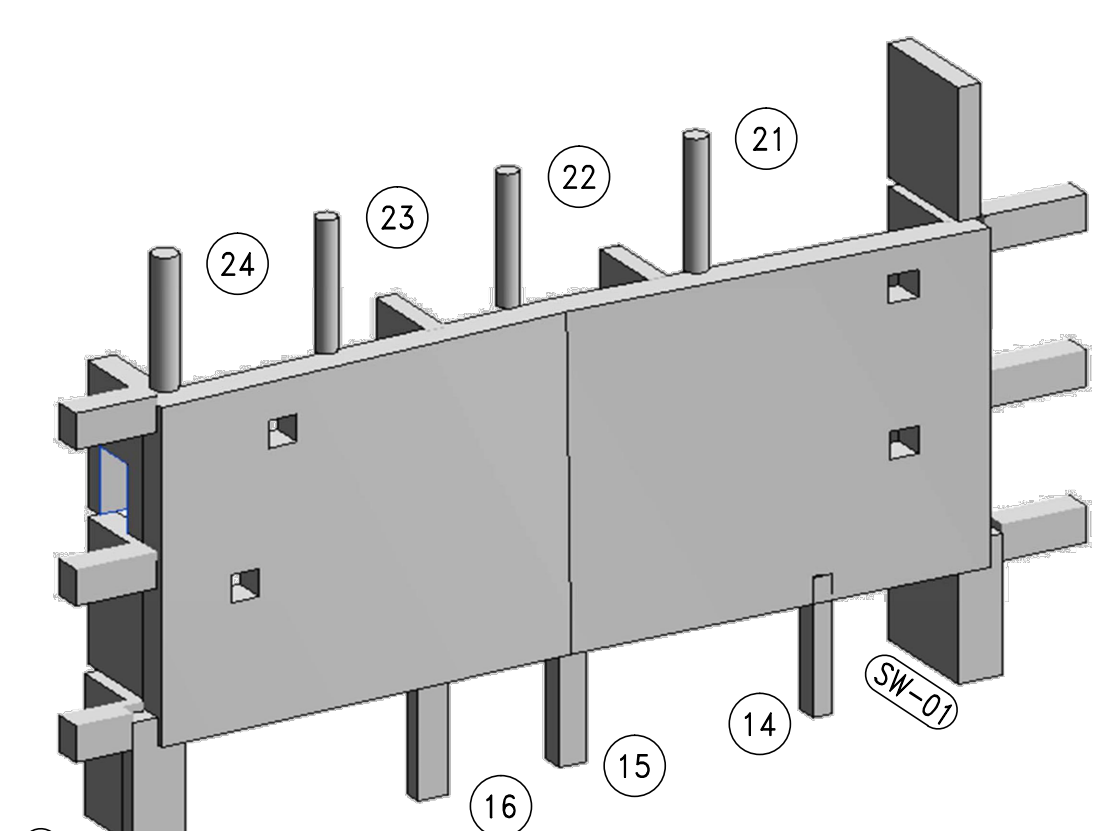
OWNER: Related Companies General Services Corporation New York, NY 10023 T: 212.801.1000
EXECUTIVE ARCHITECT: Inman Levy Architects 48 West 37th Street New York, NY 10018 T: 212.290.1444
DESIGNER: Diller Scofidio + Renfro 601 West 68 Street, 811-5 New York, New York 10001 T: 212.600.7971
STRUCTURAL ENGINEER: WSP Cantor Seinuk 238 E 49th Street New York, NY 10017 T: 212.687.9888
MEP ENGINEER: Jaro Baum & Bolles Consulting Engineers 80 Pine Street New York, NY 10005 T: 212-269-5894
EXTERIOR WALL CONSULTANT: Inman Levy Architects 48 West 37th Street New York, NY 10018 T: 212-689-5388
VERTICAL TRANSPORTATION: Van Duusen & Associates 360 Park Avenue South, Suite 524 Livingston, NJ 07029 T: 973-984-9220
LEED CONSULTANT: Viridian 360 Park Avenue South, 15th Floor New York, NY 10010 T: 203-299-1411
ACOUSTICAL CONSULTANTS: CERAMIC ASSOCIATES INC. 404 5th Avenue #8 New York, NY 10018 T: 212-376-1776
LANDSCAPE DESIGNER: Nelson Byrd Woltz 230 Park Avenue South, Suite 920 New York, NY 10003 T: 212-260-2270

SHEET NOTES:

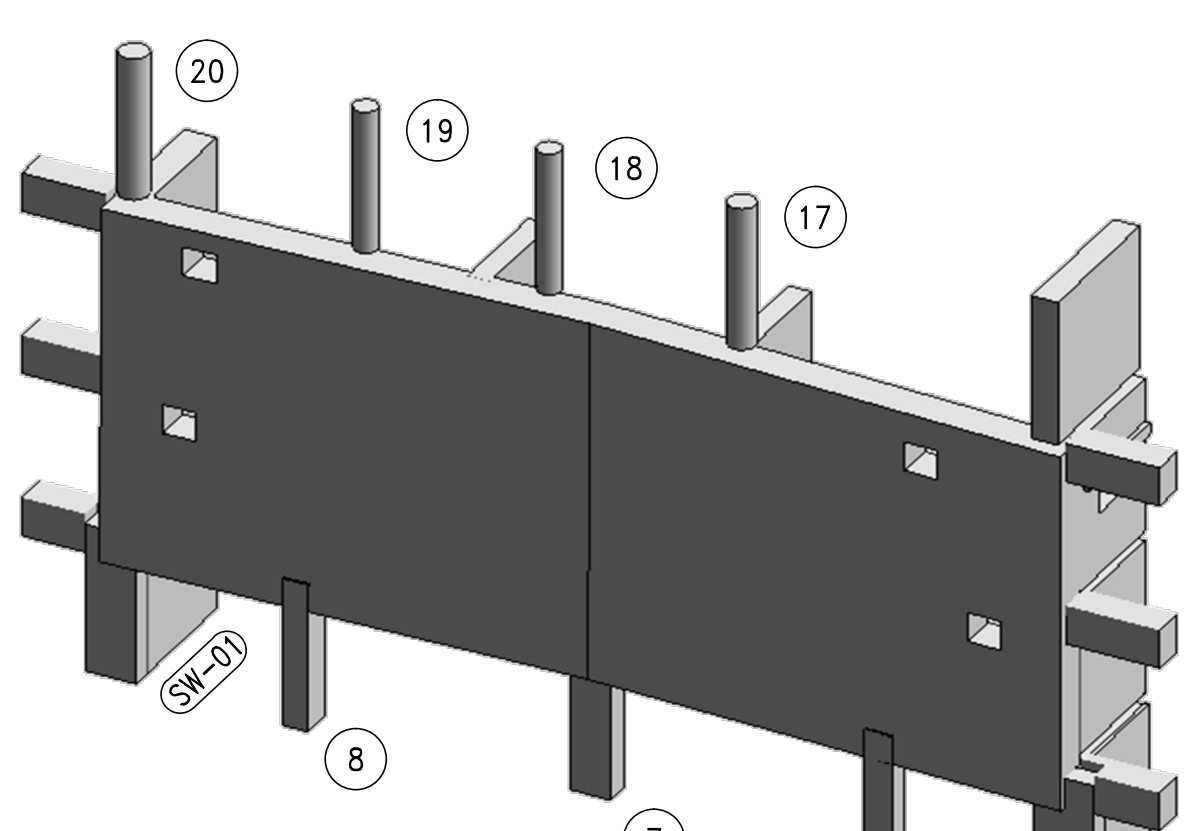
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SUPERSTRUCTURE EARLY BID 11-17-14
NYCT SUBMISSION 11-18-14
DOB SUBMISSION 12-08-14
DESIGN DEVELOPMENT SET 12-23-14
NYCT SUBMISSION 12-23-14
UPDATED DOB SET 01-20-15
NYCT SUBMISSION 01-22-15
70% CD 04-27-15
85% CD 07-02-15
90% PARTIAL CD ISSUE 09-03-15
FLOORS SC-12 11-24-15
PAA #2 01-26-16



DATE OF PRINT: 2016-01-26
DRAWING SCALE:
PROJECT NUMBER: 2012068
TITLE: COLUMN SCHEDULE 1
DRAWING NO. S-950.02



EAST MID-MECH BELT WALL COLUMN LOADS table with columns: COLUMN, DEAD LOAD (K), LIVE LOAD (K), WIND LOAD (K), ULT. LOAD (K). Rows 21-16.



WEST MID-MECH BELT WALL COLUMN LOADS table with columns: COLUMN, DEAD LOAD (K), LIVE LOAD (K), WIND LOAD (K), ULT. LOAD (K). Rows 17-8.

EAST MID-MECH BELT WALL LOAD DISTRIBUTION

WEST MID-MECH BELT WALL LOAD DISTRIBUTION

OWNER:
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DESIGNER:
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MEP ENGINEER:
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80 Pine Street
New York, NY 10005
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F: 212.209.5894

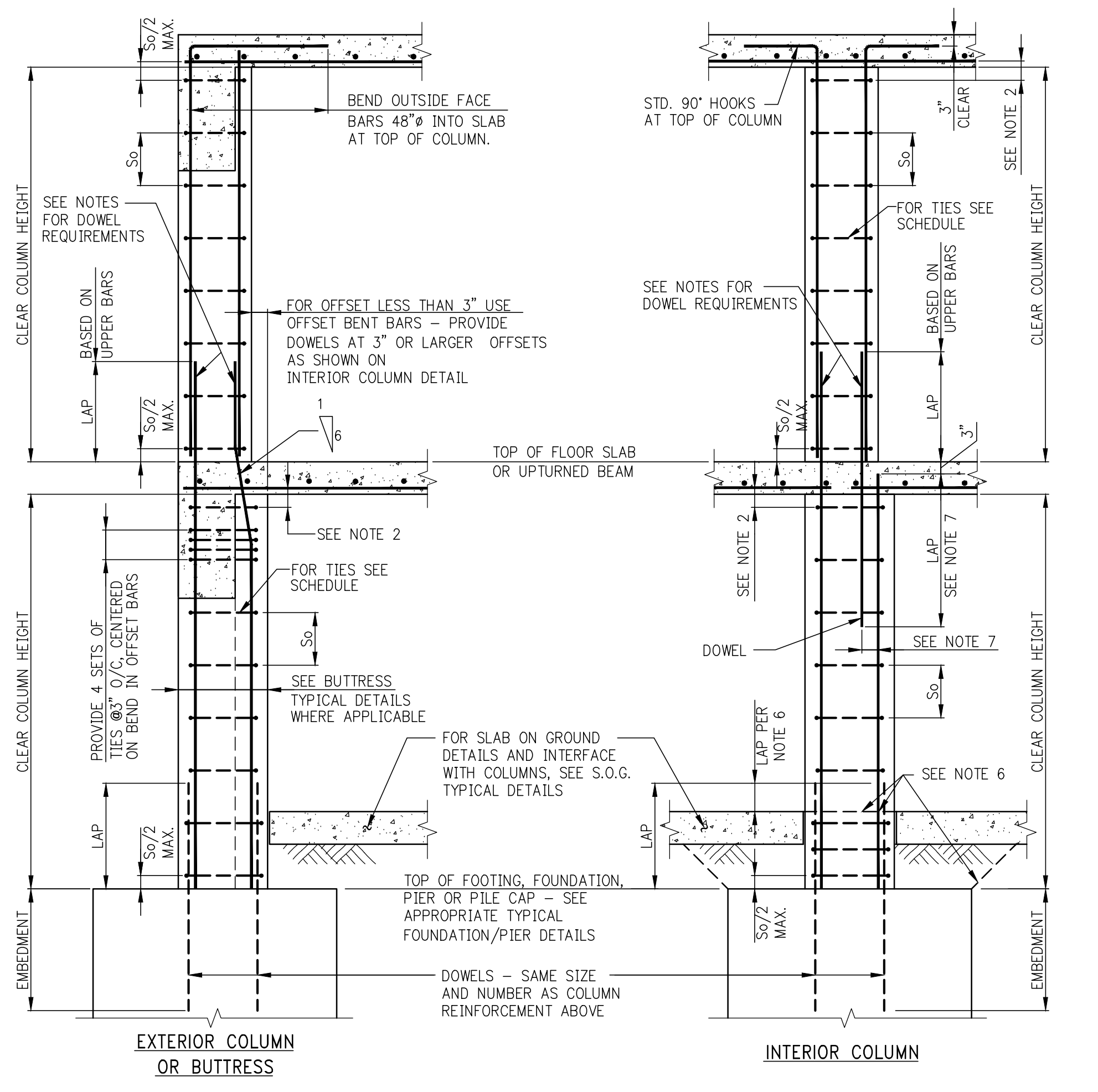
EXTERIOR WALL CONSULTANT:
Harris Berger & Associates
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ACOUSTICAL CONSULTANTS:
CERAMIC & ASSOCIATES INC.
404 5th Avenue #8
New York, NY 10018
T: 212.370.1776

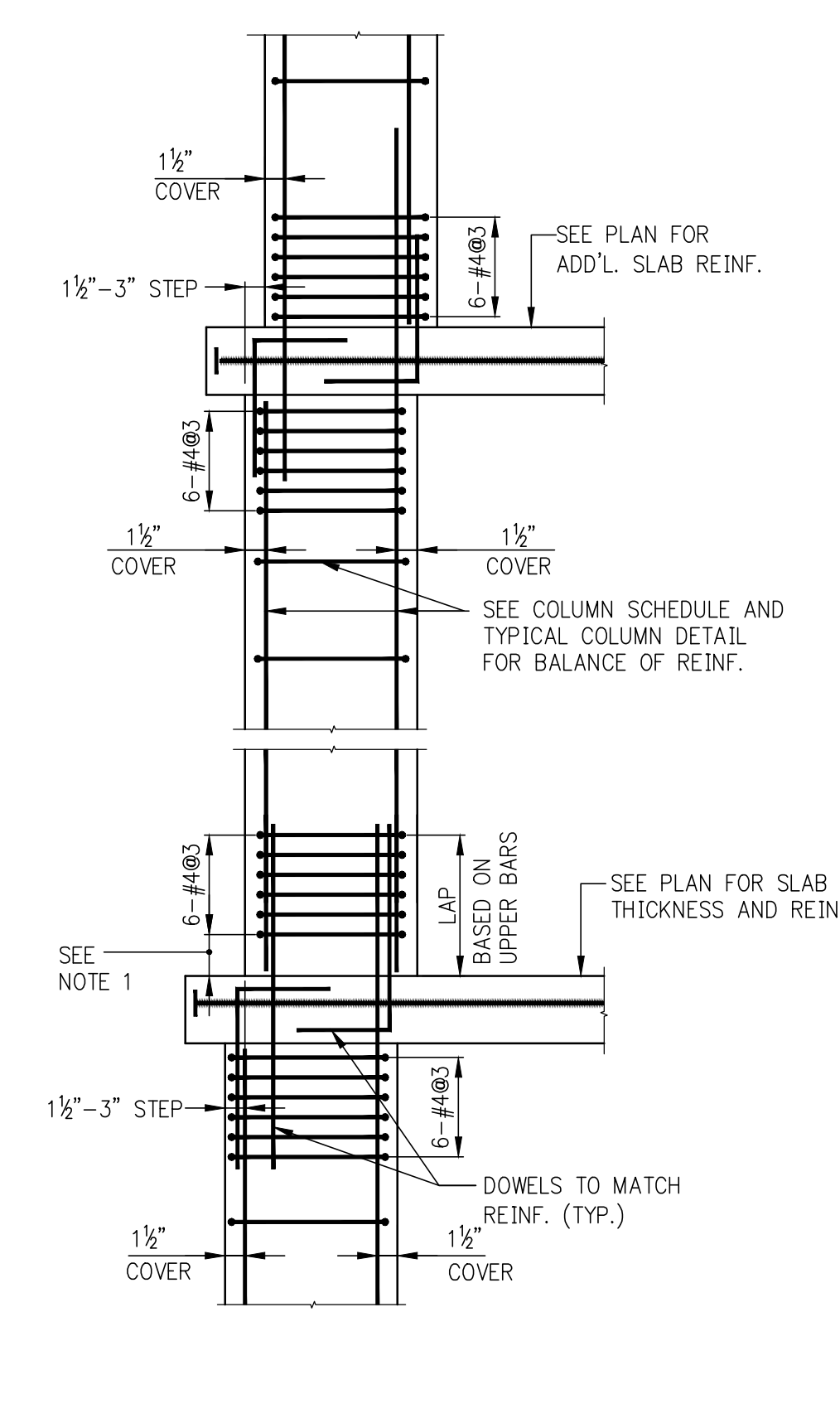
LANDSCAPE DESIGNER:
Nelson Byrd White
200 Park Avenue South, Suite 920
New York, NY 10003
T: 212.260.2270



VERTICAL BAR SIZE	#3	#4	#5
#5	10	-	-
#6	12	-	-
#7	14	-	-
#8	16	16	-
#9	18	18	-
#10	18	20	-
#11	-	22	-
#14	-	24	27
#18	-	24	30

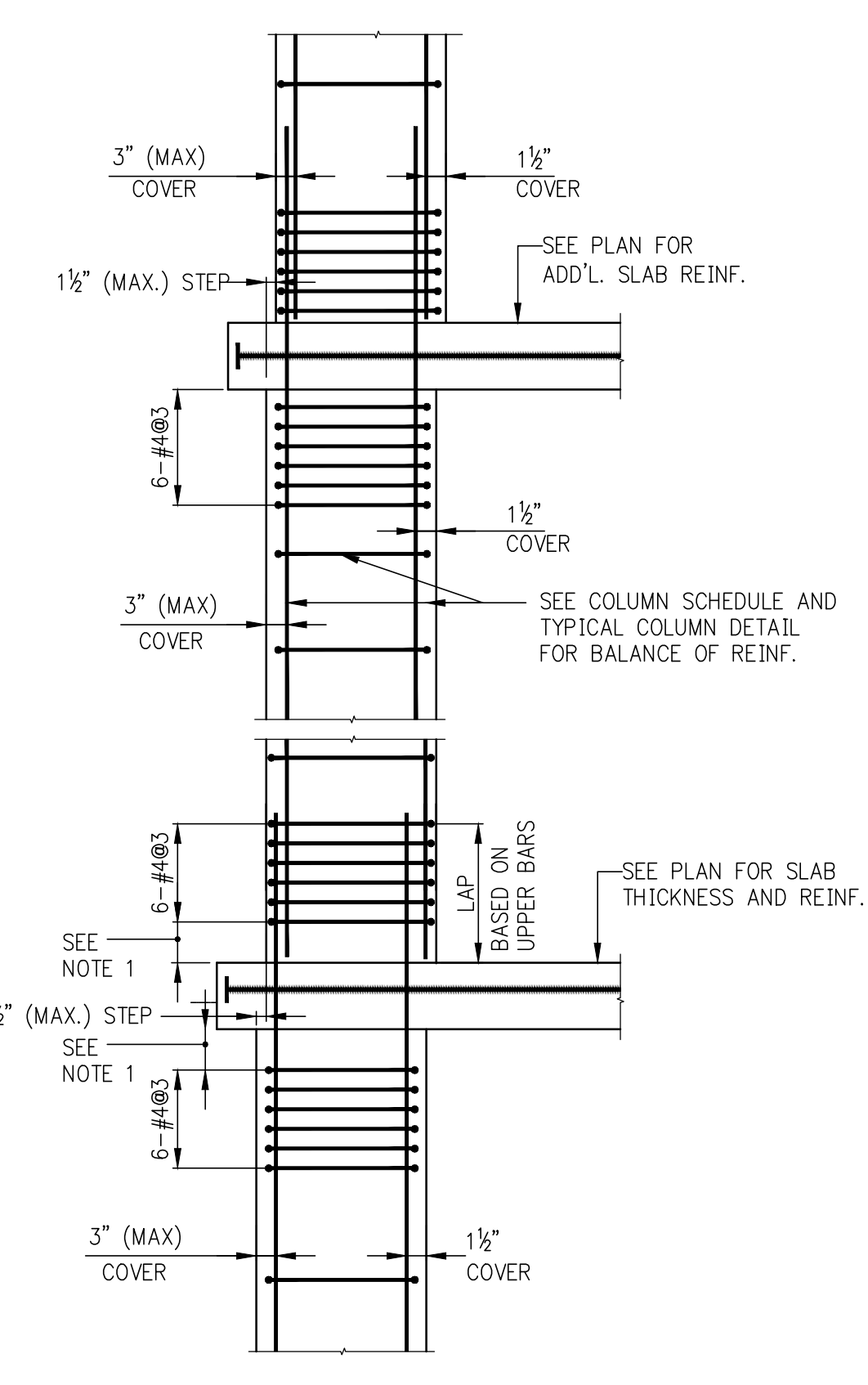
- NOTES:**
- #3 TIES NOT PERMITTED FOR #11, #14, #18 OR BUNDLED VERTICAL BARS.
 - LOCATE TOP SET OF TIES $S_{o/2}$ MAX. BELOW THE LOWEST HORIZONTAL REINFORCEMENT IN SLAB OR DROP PANEL, WHERE BEAMS FRAME FROM FOUR DIRECTIONS INTO COLUMN, TIES MAY TERMINATE NOT MORE THAN 3" BELOW LOWEST REINFORCEMENT IN SHALLOWEST OF SUCH BEAMS.
 - WHERE AREA OF VERTICAL REINFORCEMENT IN LOWER COLUMN IS GREATER THAN THAT OF UPPER COLUMN, EXTEND AREA OF REINFORCEMENT AT LEAST EQUAL TO THAT OF UPPER COLUMN.
 - WHERE AREA OF REINFORCEMENT IN LOWER COLUMN IS LESS THAN THAT OF UPPER COLUMN, PROVIDE ADDITIONAL DOWELS TO MAKE UP THE DIFFERENCE.
 - ALL LAP SPLICES AND EMBEDMENTS TO BE COMPRESSION UNLESS OTHERWISE NOTED IN COLUMN SCHEDULE.
 - WHERE SLAB IS POURED OVER FOUNDATION PRIOR TO COLUMN, VERTICAL REINFORCEMENT AND DOWEL LAP TO START AT TOP OF SLAB.
 - IF OFFSET OF DOWEL IS MORE THAN 6", LAP SHALL BE TWICE THE COMPRESSION DEVELOPMENT LENGTH OF THE SMALLER BAR.

COLUMN DETAILS



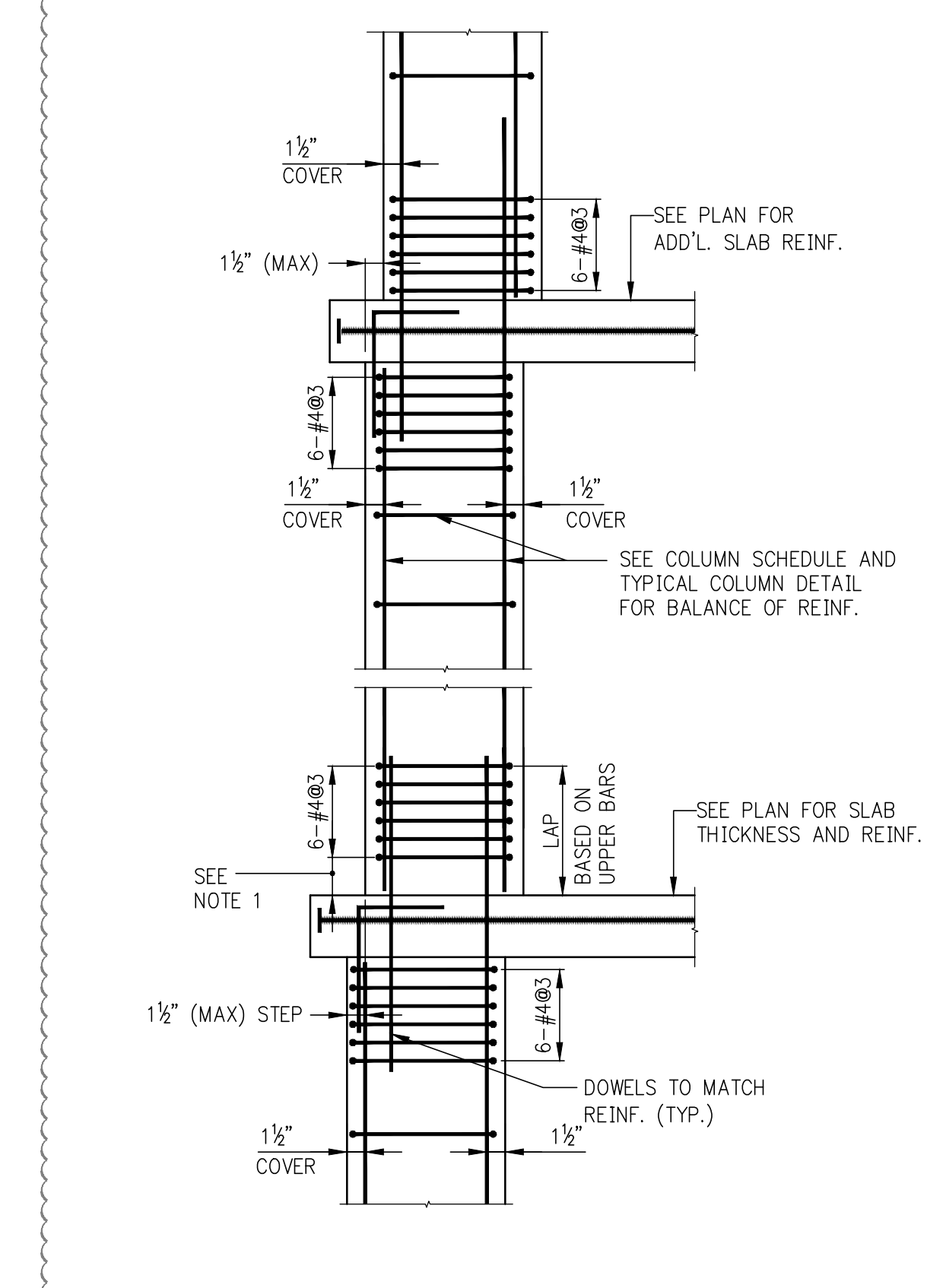
STEPPED COLUMN-TYPE A [STEP < 3"]

- NOTES:**
- LOCATE TOP SET OF TIES $S_{o/2}$ MAX. BELOW THE LOWEST HORIZONTAL REINFORCEMENT IN SLAB OR DROP PANEL, WHERE BEAMS FRAME FROM FOUR DIRECTIONS INTO COLUMN, TIES MAY TERMINATE NOT MORE THAN 3" BELOW LOWEST REINFORCEMENT IN SHALLOWEST OF SUCH BEAMS.



STEPPED COLUMN-TYPE B [STEP < 1 1/2"] ALT.

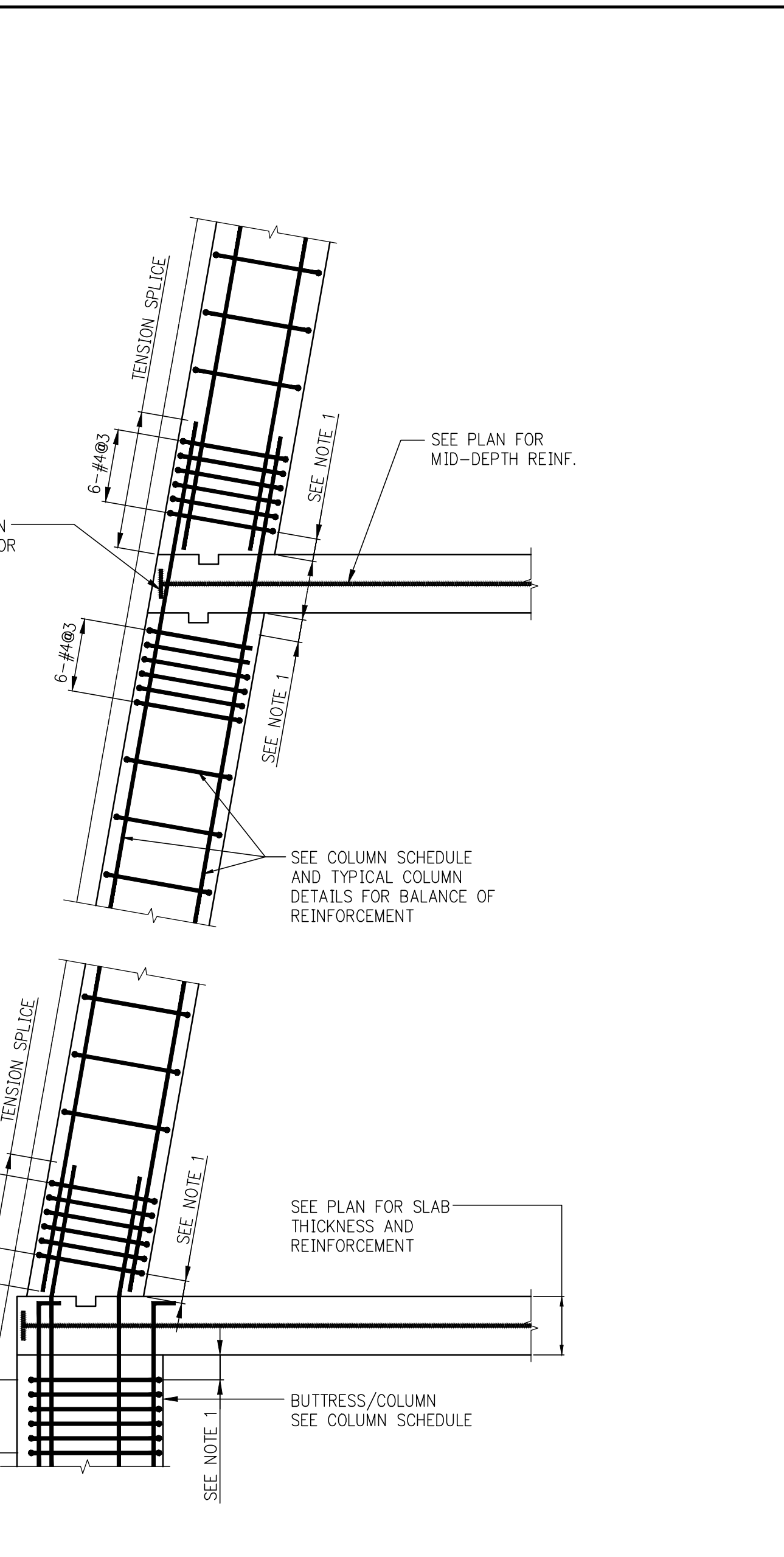
- NOTES:**
- LOCATE TOP SET OF TIES $S_{o/2}$ MAX. BELOW THE LOWEST HORIZONTAL REINFORCEMENT IN SLAB OR DROP PANEL, WHERE BEAMS FRAME FROM FOUR DIRECTIONS INTO COLUMN, TIES MAY TERMINATE NOT MORE THAN 3" BELOW LOWEST REINFORCEMENT IN SHALLOWEST OF SUCH BEAMS.
 - THIS DETAIL CAN BE USED WHEN MAINTAINING STIRRUP GEOMETRY IS DESIRED.



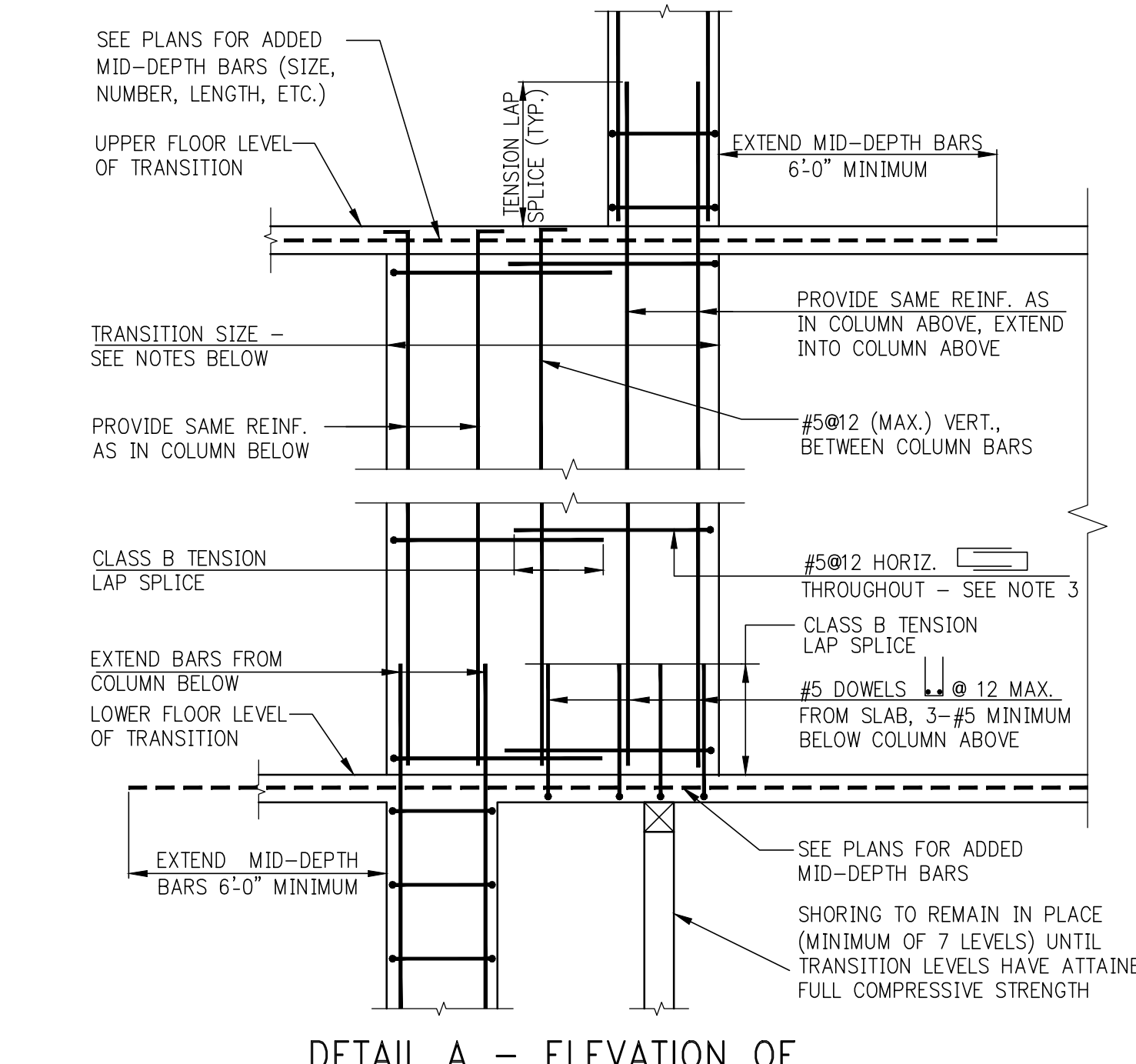
STEPPED COLUMN-TYPE B [STEP < 1 1/2"] ALT.

- NOTES:**
- LOCATE TOP SET OF TIES $S_{o/2}$ MAX. BELOW THE LOWEST HORIZONTAL REINFORCEMENT IN SLAB OR DROP PANEL, WHERE BEAMS FRAME FROM FOUR DIRECTIONS INTO COLUMN, TIES MAY TERMINATE NOT MORE THAN 3" BELOW LOWEST REINFORCEMENT IN SHALLOWEST OF SUCH BEAMS.
 - THIS DETAIL CAN BE USED WHEN MAINTAINING STIRRUP GEOMETRY IS DESIRED.

SHEET NOTES:

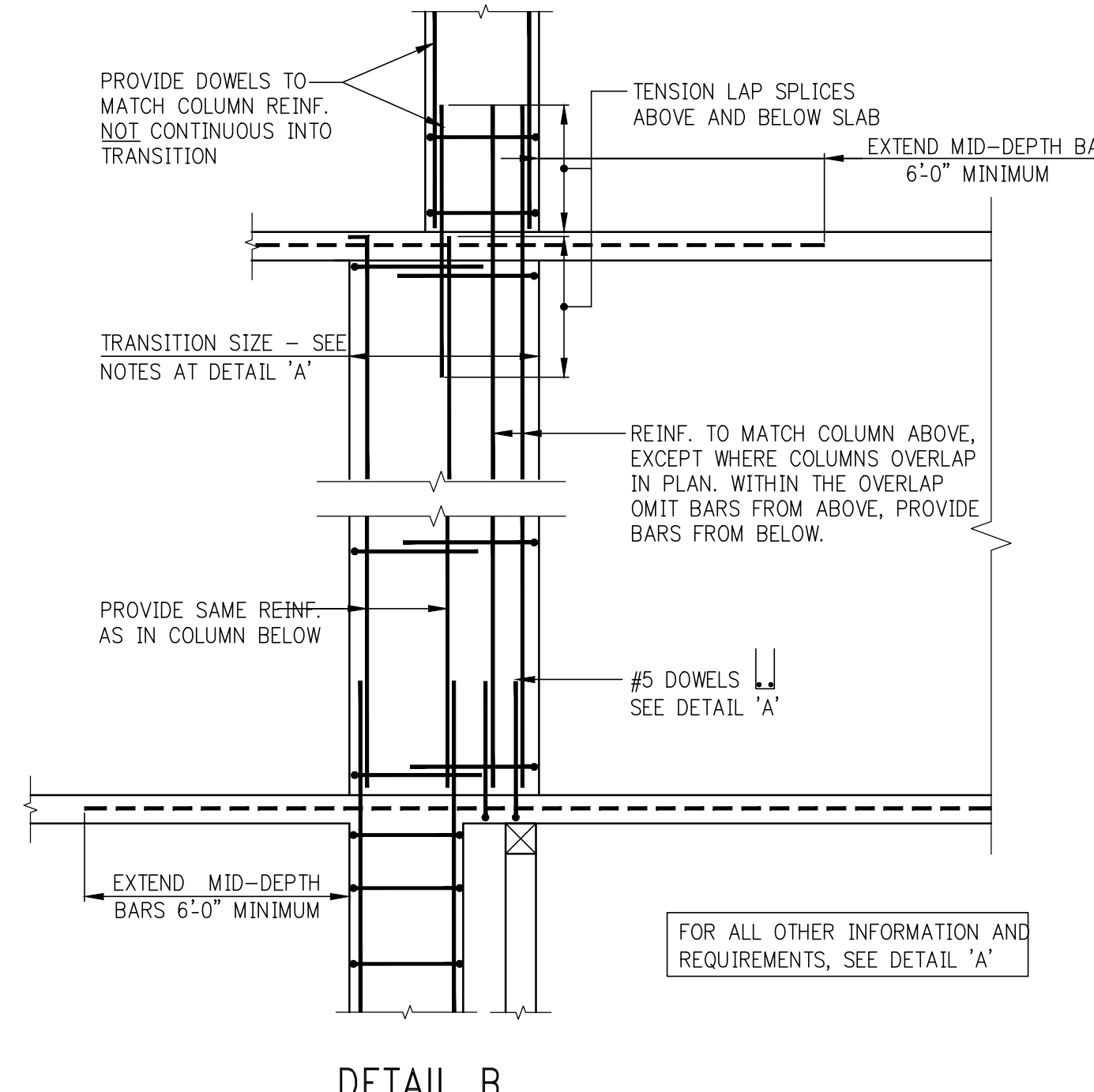


- SLOPING COLUMN**
- NOTES:**
- LOCATE TOP SET OF TIES $S_{o/2}$ MAX. BELOW THE LOWEST HORIZONTAL REINFORCEMENT IN SLAB OR DROP PANEL, WHERE BEAMS FRAME FROM FOUR DIRECTIONS INTO COLUMN, TIES MAY TERMINATE NOT MORE THAN 3" BELOW LOWEST REINFORCEMENT IN SHALLOWEST OF SUCH BEAMS.



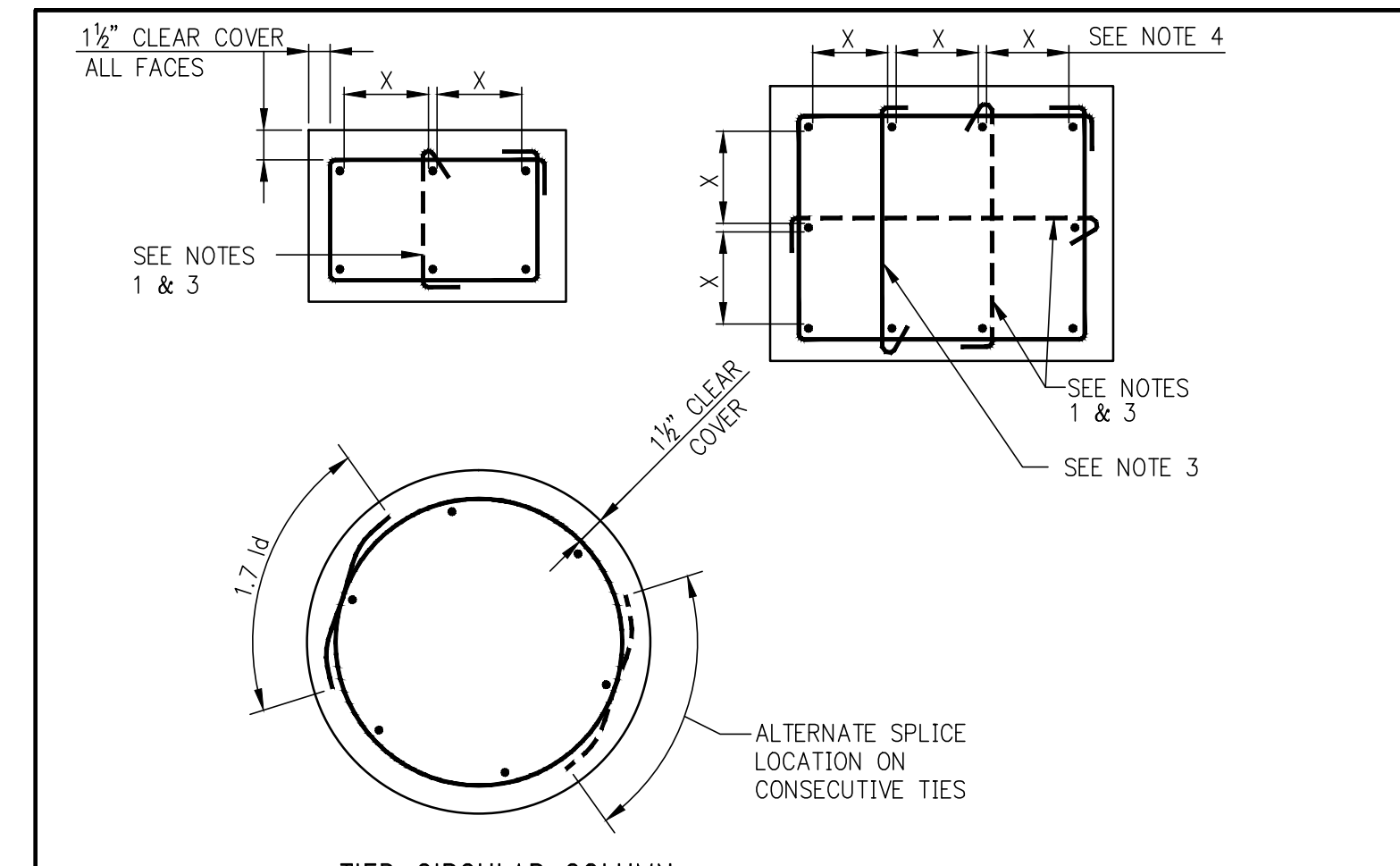
DETAIL A - ELEVATION OF "WALKING" COLUMN TRANSITION

- NOTES:**
- FOR DIMENSIONS AND LOCATION OF TRANSITION SEE COLUMN LOCATION PLANS AND/OR COLUMN SCHEDULE.
 - VERTICAL REINFORCEMENT IN TRANSITION TO BE AS SHOWN IN DETAILS 'A' AND 'B' UNLESS THE COLUMN SCHEDULE CALLS FOR SPECIFIC VERTICAL REINFORCEMENT WITHIN THE TRANSITION.
 - IN ADDITION TO #5@12 HORIZONTAL HOOPS, PROVIDE HOOPS AND CROSSTIES TO SATISFY TIEING REQUIREMENTS OF TYPICAL COLUMN DETAILS FOR ALL VERTICAL REINFORCEMENT.



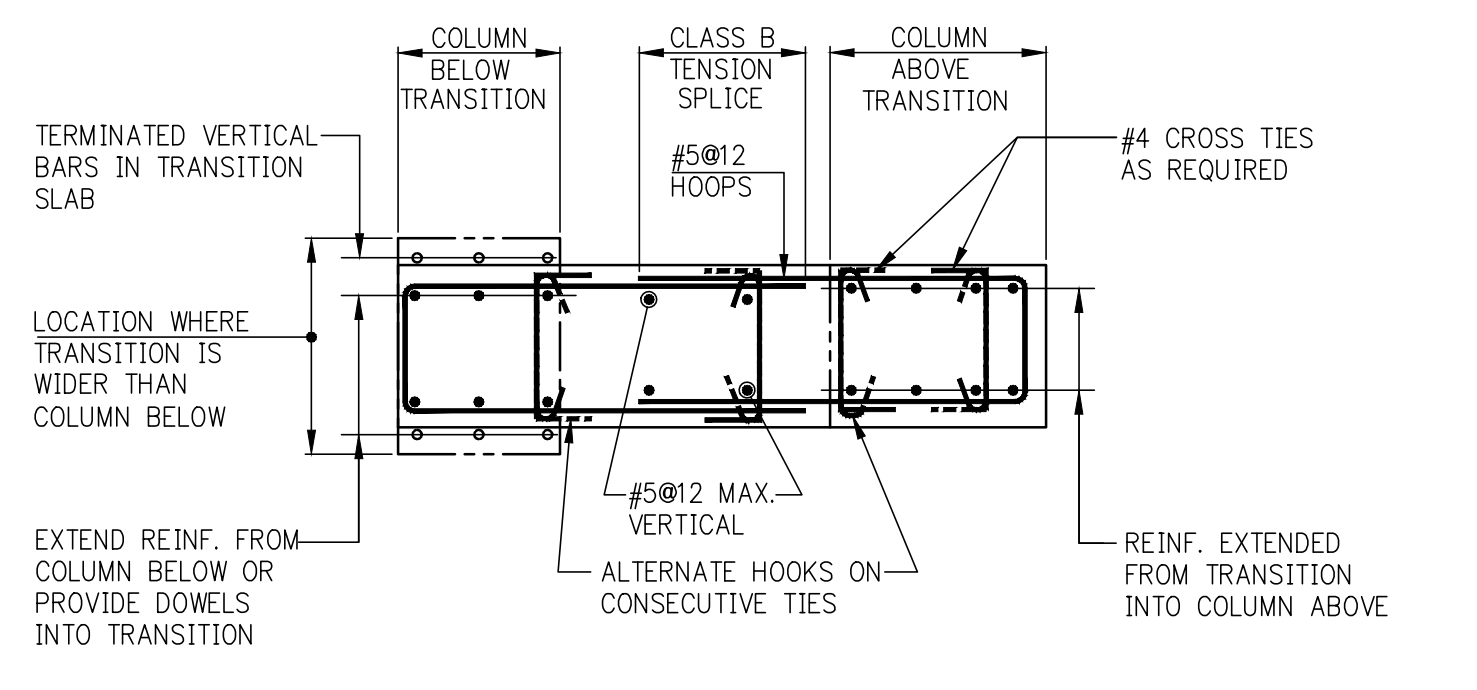
DETAIL B

USE THIS DETAIL WHERE COLUMNS ABOVE AND BELOW TRANSITION OVERLAP IN PLAN

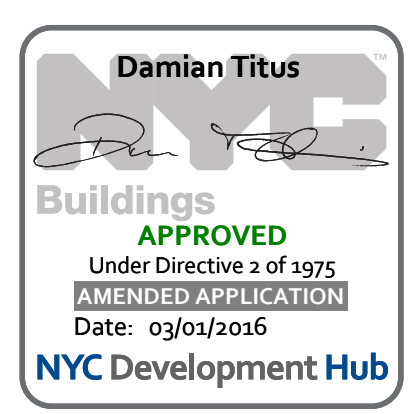


TIED CIRCULAR COLUMN
COLUMN REINFORCEMENT AND TIES ARRANGEMENT

- NOTES:**
- SINGLE LEG CROSSTIES SHOWN DASHED MAY BE OMITTED WHEN THE VERTICAL BAR IS NO FARTHER THAN 6" CLEAR ON EACH SIDE FROM ADJACENT TIED BARS.
 - WHEN THERE IS A SERIES OF VERTICAL BARS (SUCH AS IN WALL-LIKE COLUMNS) AND BARS ARE SPACED NOMINALLY AT 6" O/C, EVERY OTHER VERTICAL BAR WILL REQUIRE A CROSSTIE.
 - ALTERNATE 90° AND 135° ENDS ON CONSECUTIVE SINGLE LEG CROSSTIES THROUGHOUT HEIGHT OF MEMBER.
 - DETAILER SHALL SPACE BARS EQUIDISTANT ON ALL FACES UNLESS OTHERWISE SHOWN IN DETAILS.



DETAIL C - HORIZONTAL SECTION THROUGH "WALKING" COLUMN TRANSITION



NO	ISSUE SET	REVISION
	FINAL SD ISSUE	11-25-13
	REVISED SD	08-22-14
	SUPERSTRUCTURE EARLY BID	11-17-14
	SET	
	DESIGN DEVELOPMENT SET	12-22-14
	NYCCT SUBMISSION	12-23-14
	UPDATED DOB SET	01-20-15
	70% CD	04-27-15
	85% CD	07-02-15
	95% CD	11-24-15
	PAA #2	01-28-16



DATE OF PRINT:
2016-01-28

DRAWING SCALE:

PROJECT NUMBER:
2012068

TITLE:
TYPICAL COLUMN DETAILS

DRAWING NO.:
S-952.01

OWNER:
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LANDSCAPE DESIGNER:
Nelson Byrd Wolfe
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SHEET NOTES:

NO	ISSUE SET	REV/DATE
	FINAL SD ISSUE	11-25-13
	FOUNDATION BID SET	06-02-14
	FOUNDATION BID SET	07-11-14
	REVISED SD	08-22-14
	SUPERSTRUCTURE EARLY BID SET	11-17-14
	SET	
	DESIGN DEVELOPMENT SET	12-22-14
	NYCT SUBMISSION	12-23-14
	PRINTED DOB SET	01-20-15
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	95% CD	11-24-15
	PAA #2	01-26-16



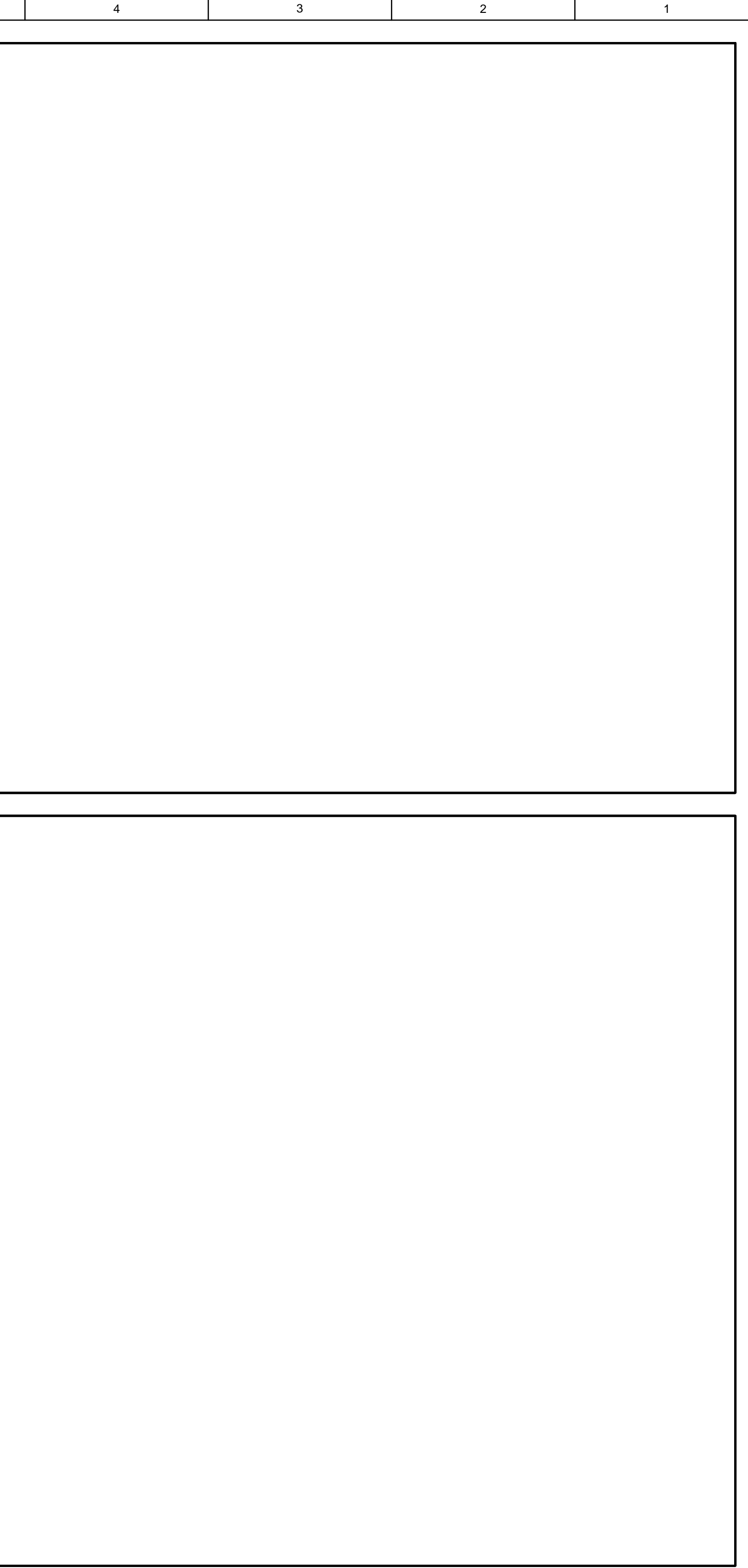
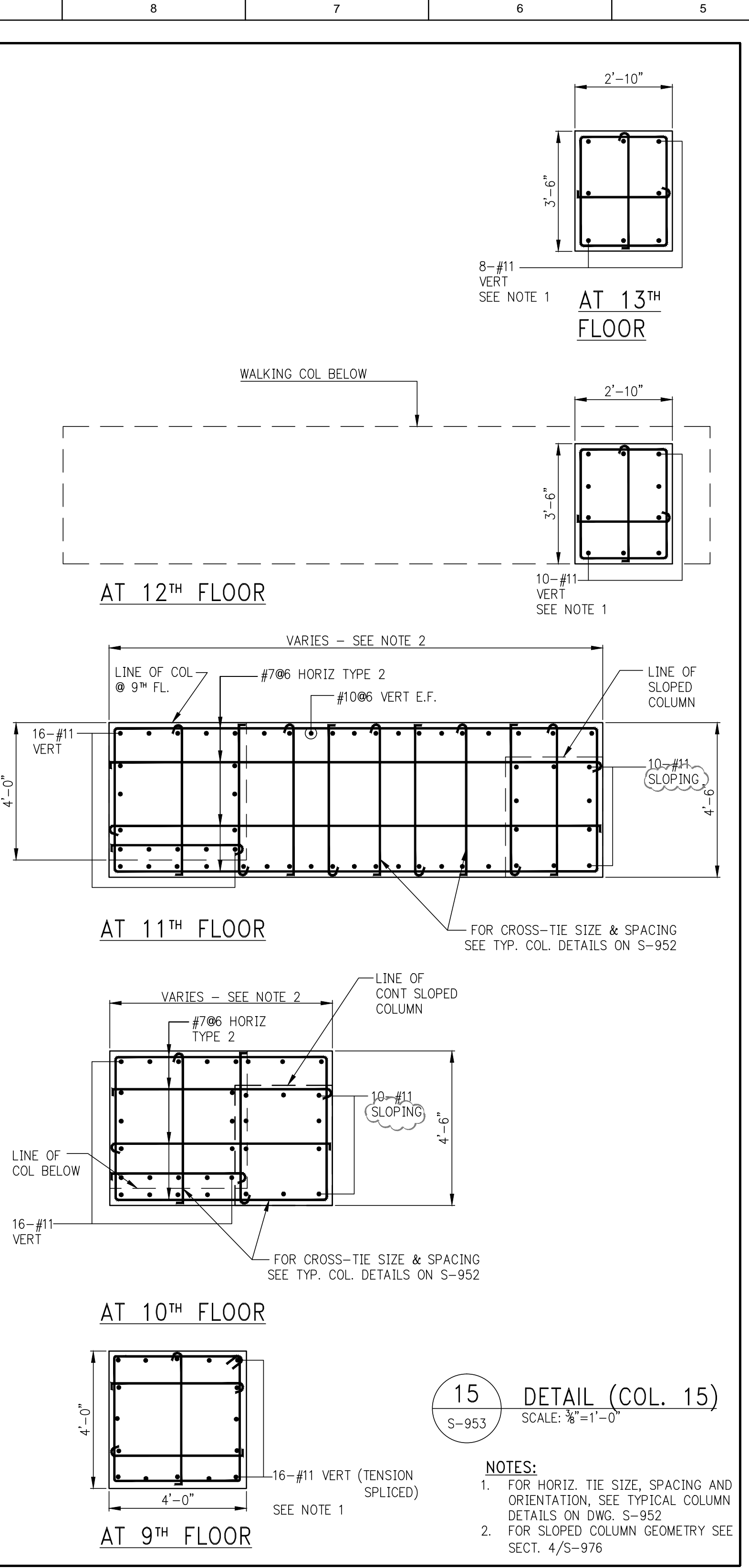
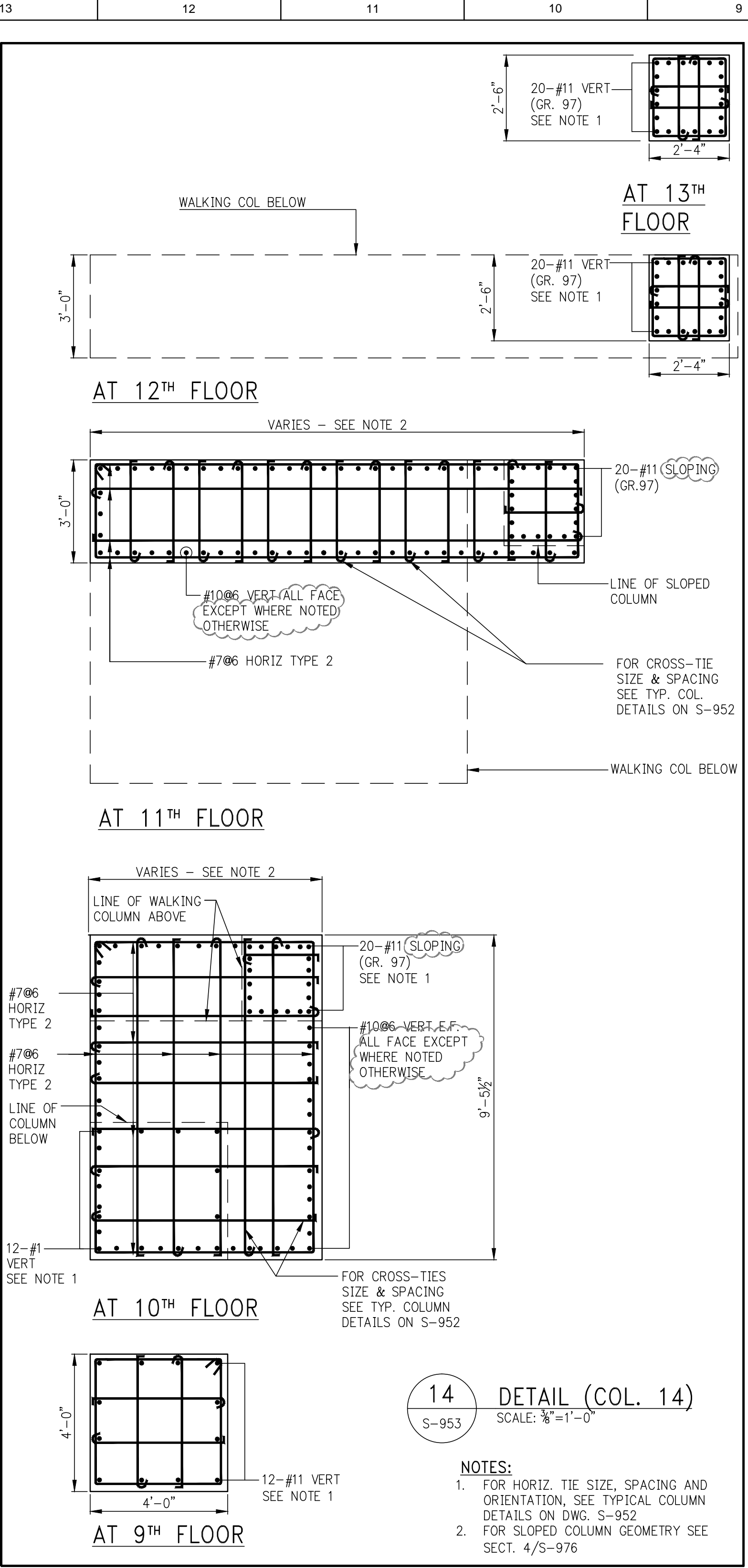
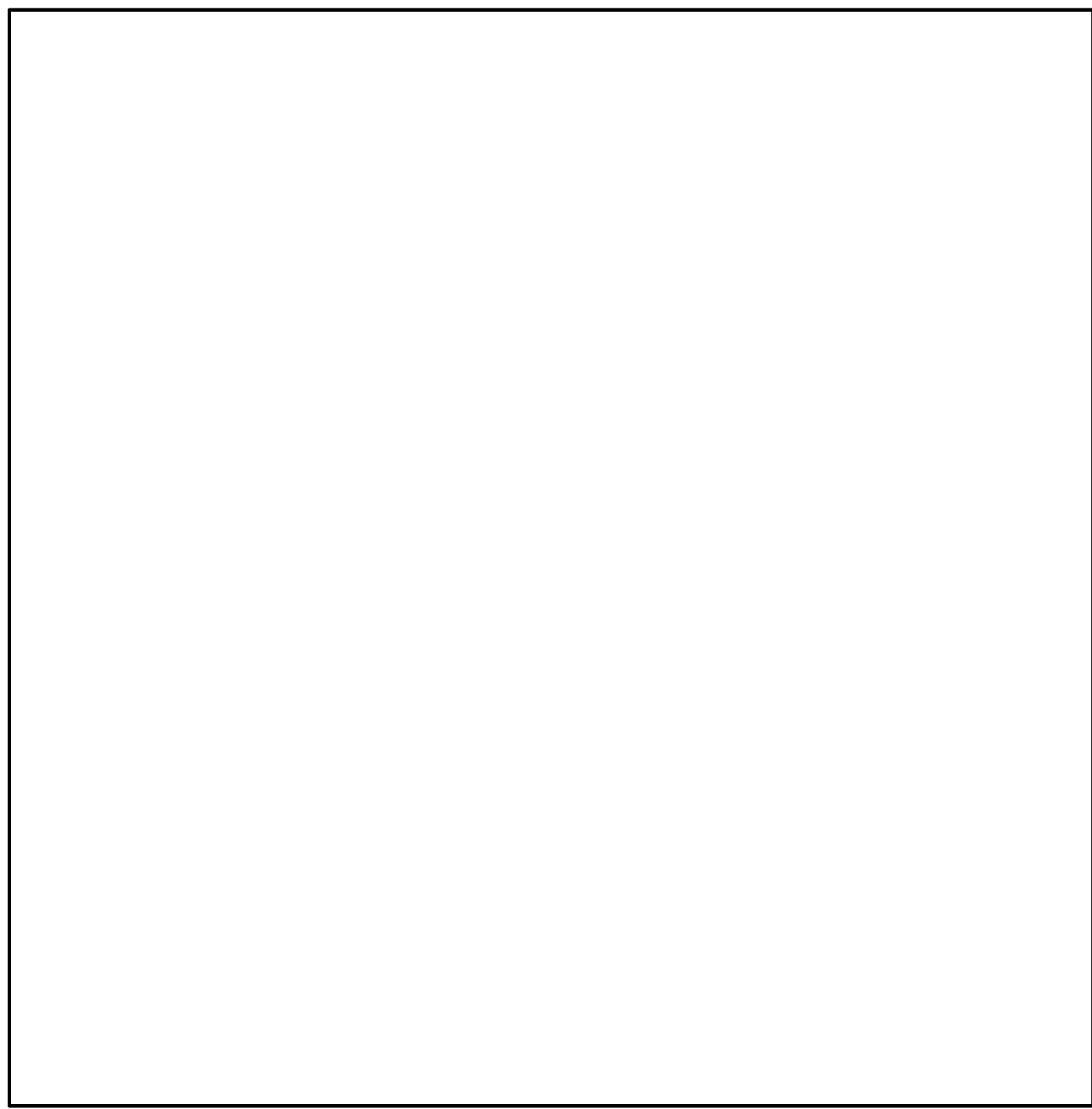
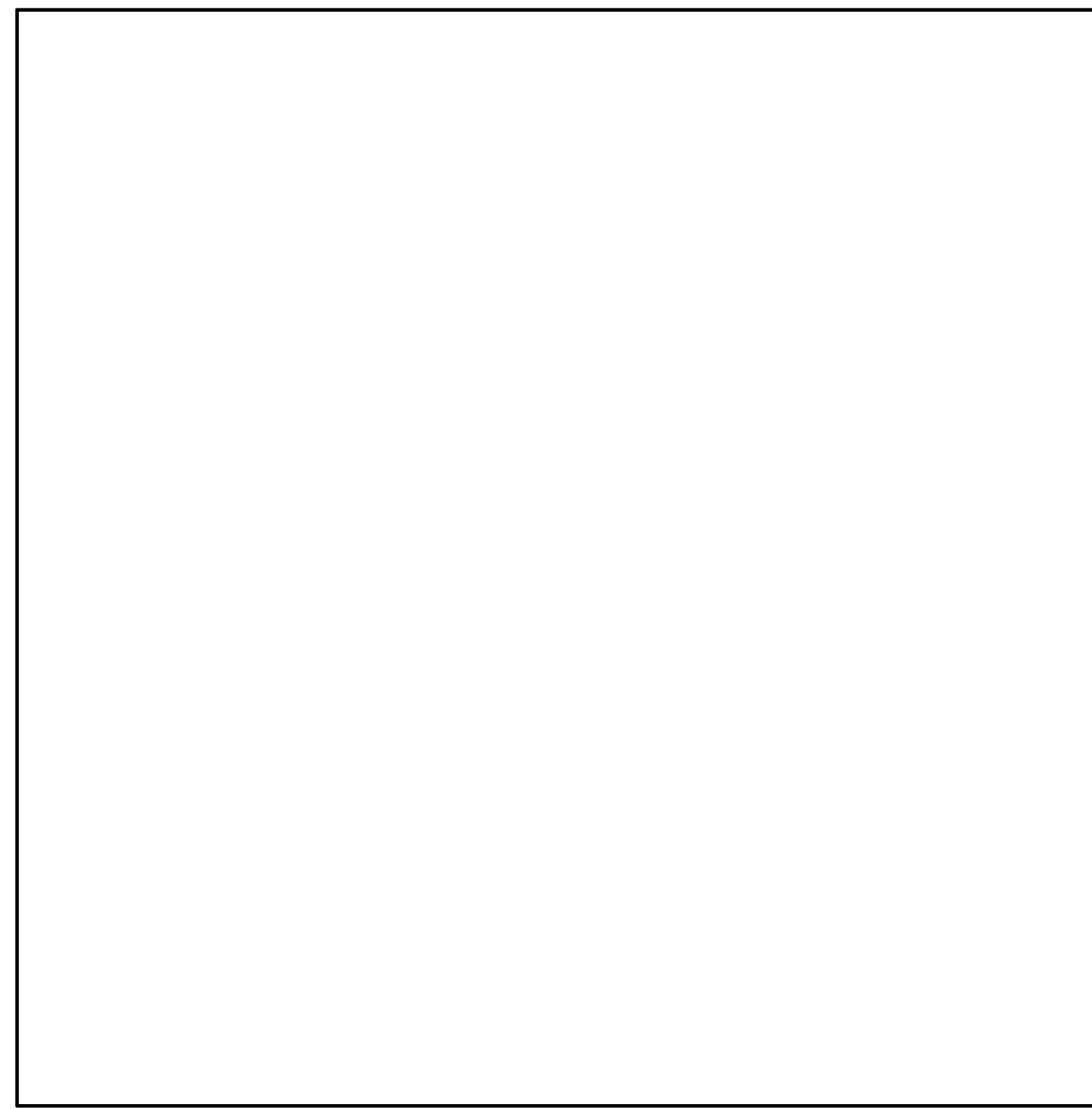
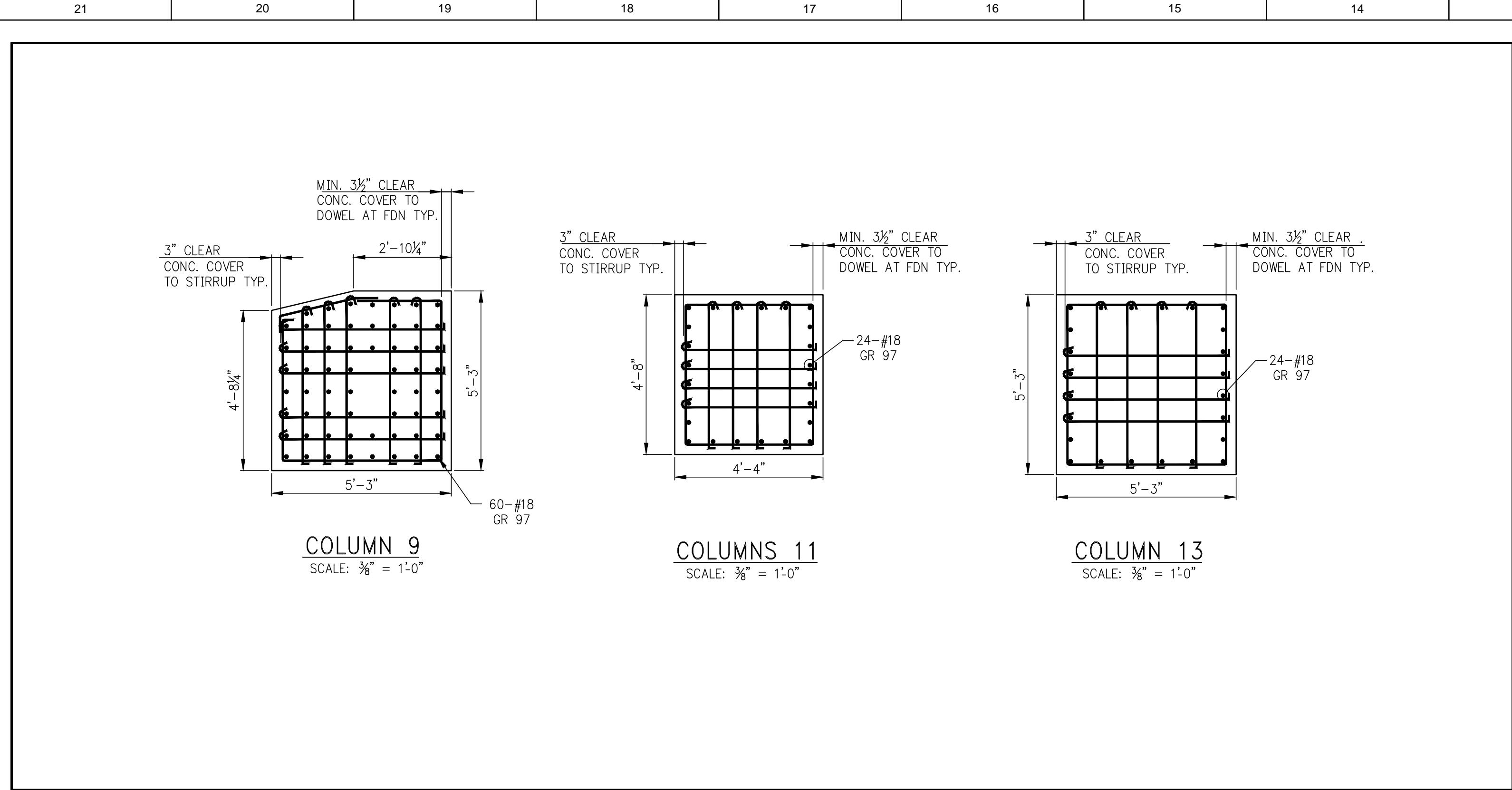
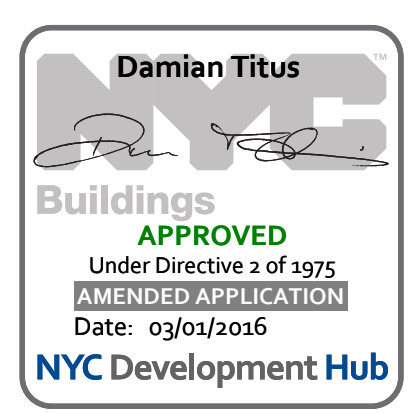
DATE OF PRINT:
2016-01-26

DRAWING SCALE:

PROJECT NUMBER:
2012058

TITLE:
COLUMN DETAILS

DRAWING NO.:
S-953.01



OWNER:
Related Companies
60 Columbus Circle
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EXECUTIVE ARCHITECT:
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KEY PLAN

NO. ISSUE SET **REV DATE**

1	95% CD	1	11.24.15
2	PKA #2	2	01.26.16
3			
4			
5			
6			
7			
8			
9			
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KEY PLAN

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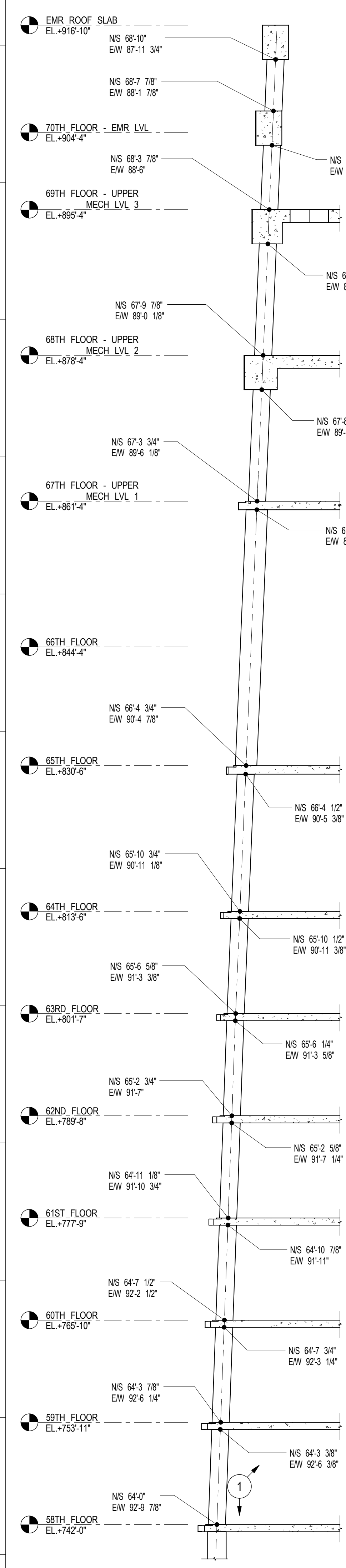
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KEY PLAN

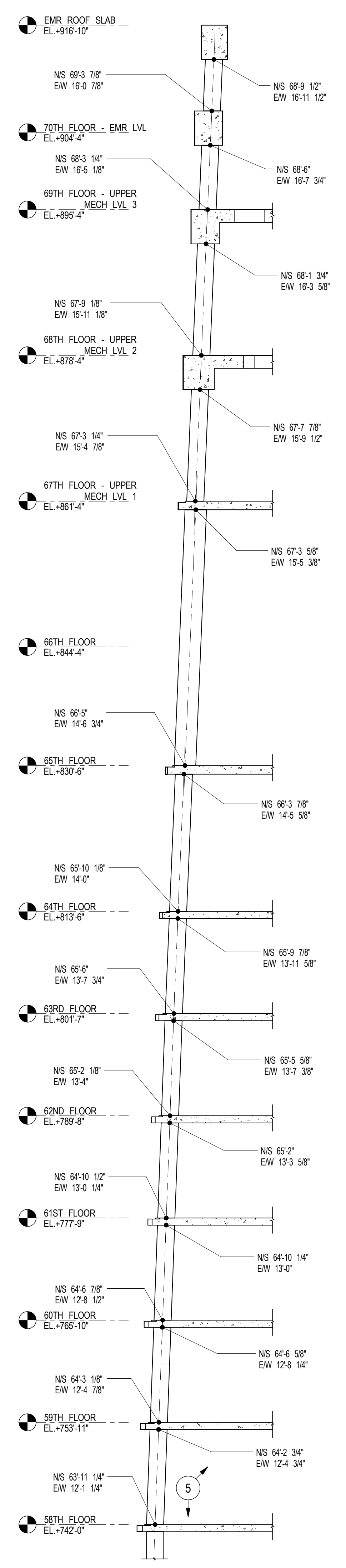
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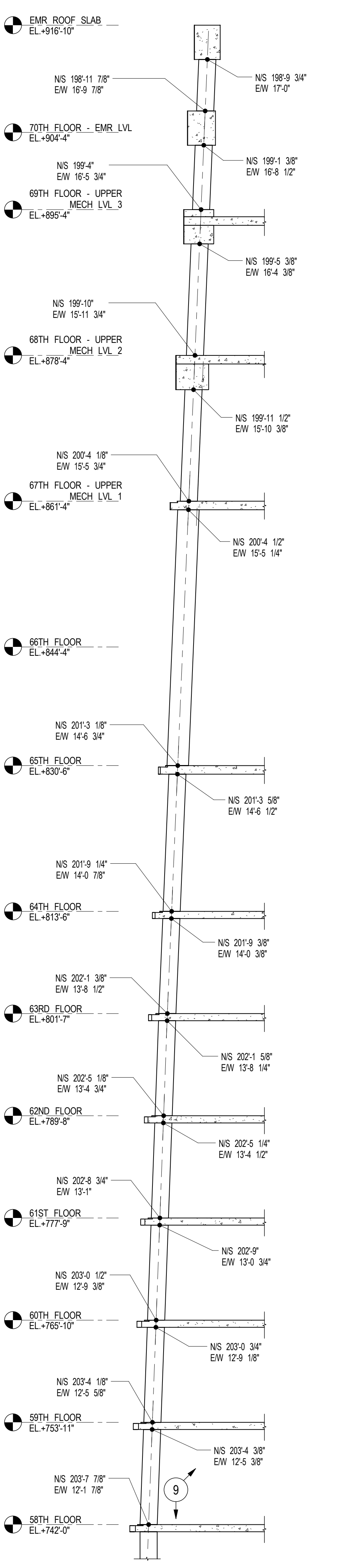
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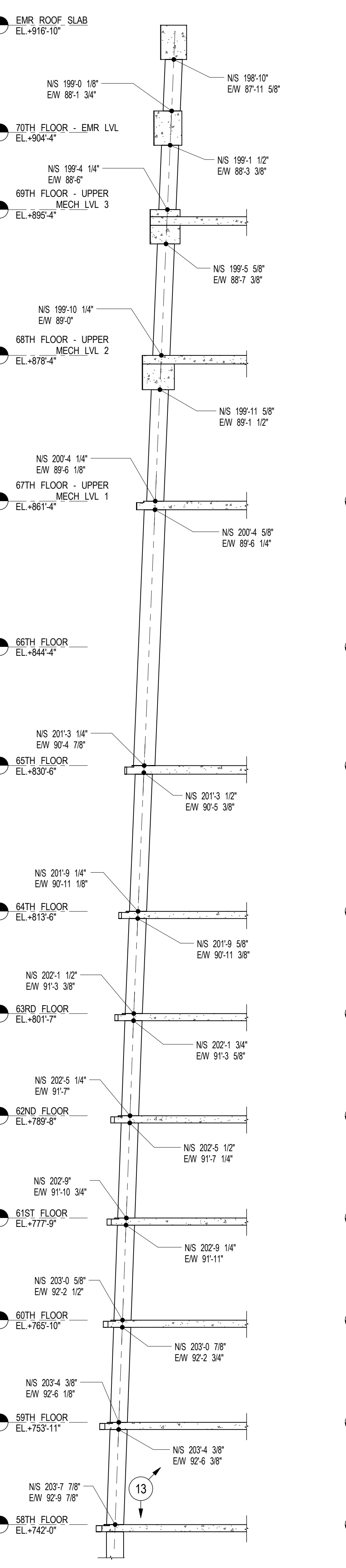
1 COLUMN 1 ELEVATION
S-954 SCALE: 1/8" = 1'-0"



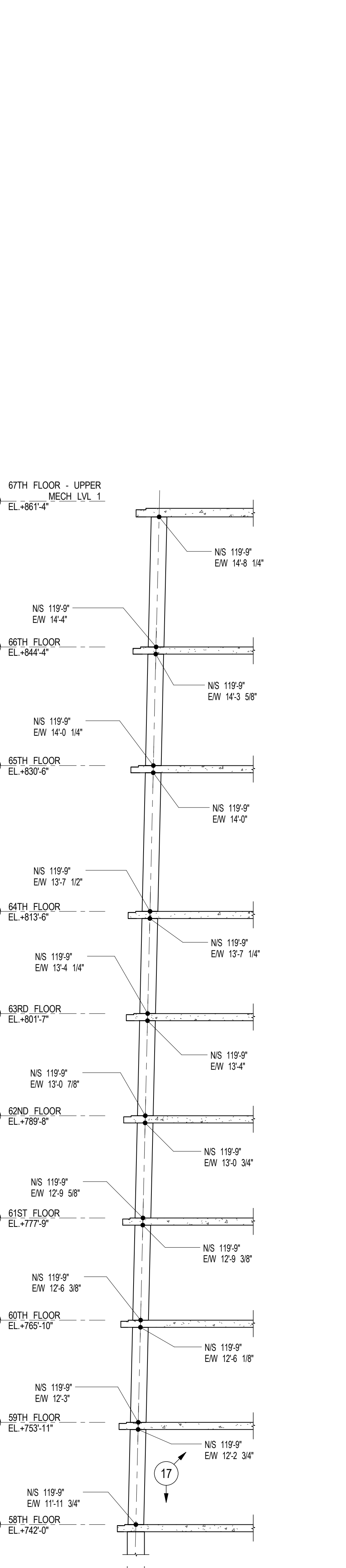
5 COLUMN 5 ELEVATION
S-954 SCALE: 1/8" = 1'-0"



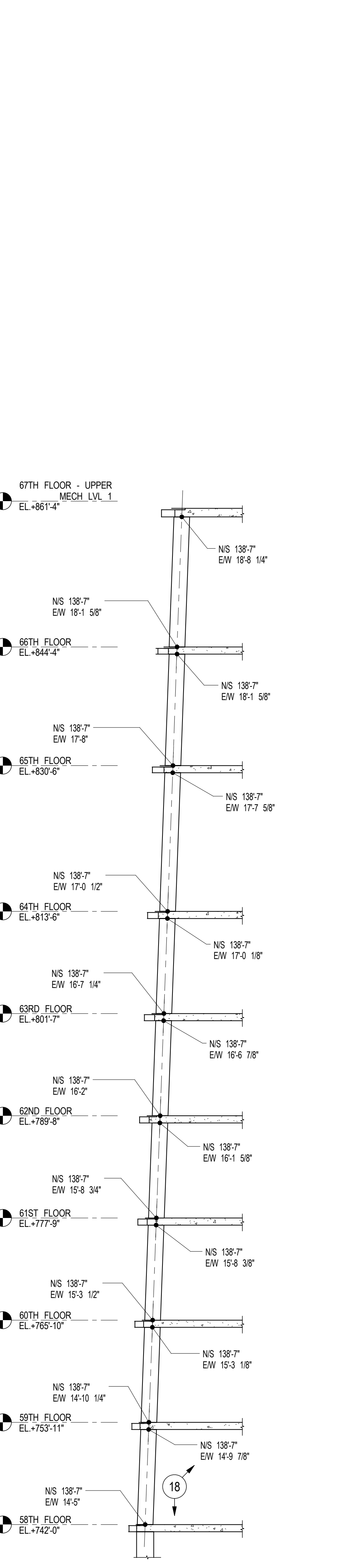
9 COLUMN 9 ELEVATION
S-954 SCALE: 1/8" = 1'-0"



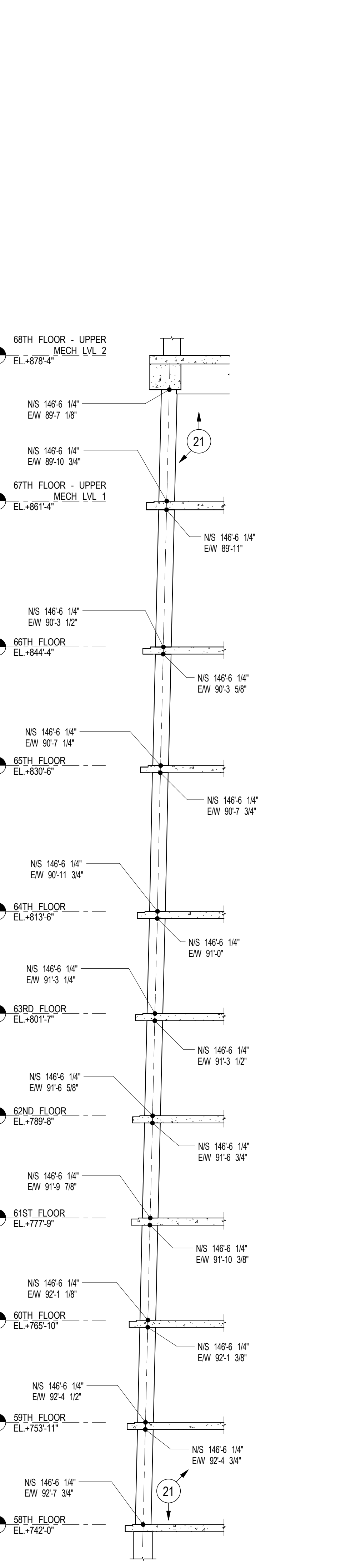
13 COLUMN 13 ELEVATION
S-954 SCALE: 1/8" = 1'-0"



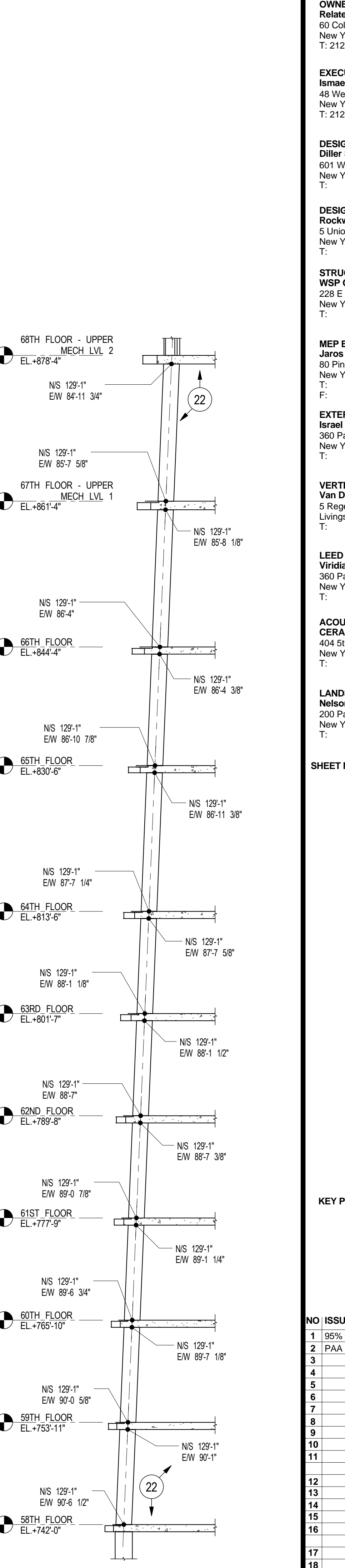
17 COLUMN 17 ELEVATION
S-954 SCALE: 1/8" = 1'-0"



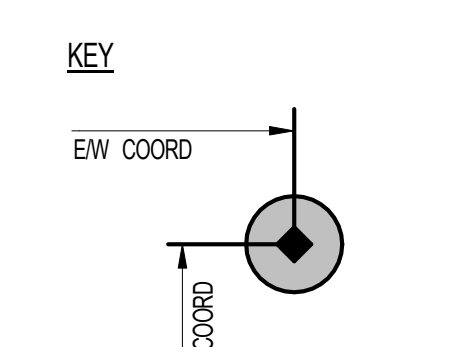
18 COLUMN 18 ELEVATION
S-954 SCALE: 1/8" = 1'-0"



21 COLUMN 21 ELEVATION
S-954 SCALE: 1/8" = 1'-0"



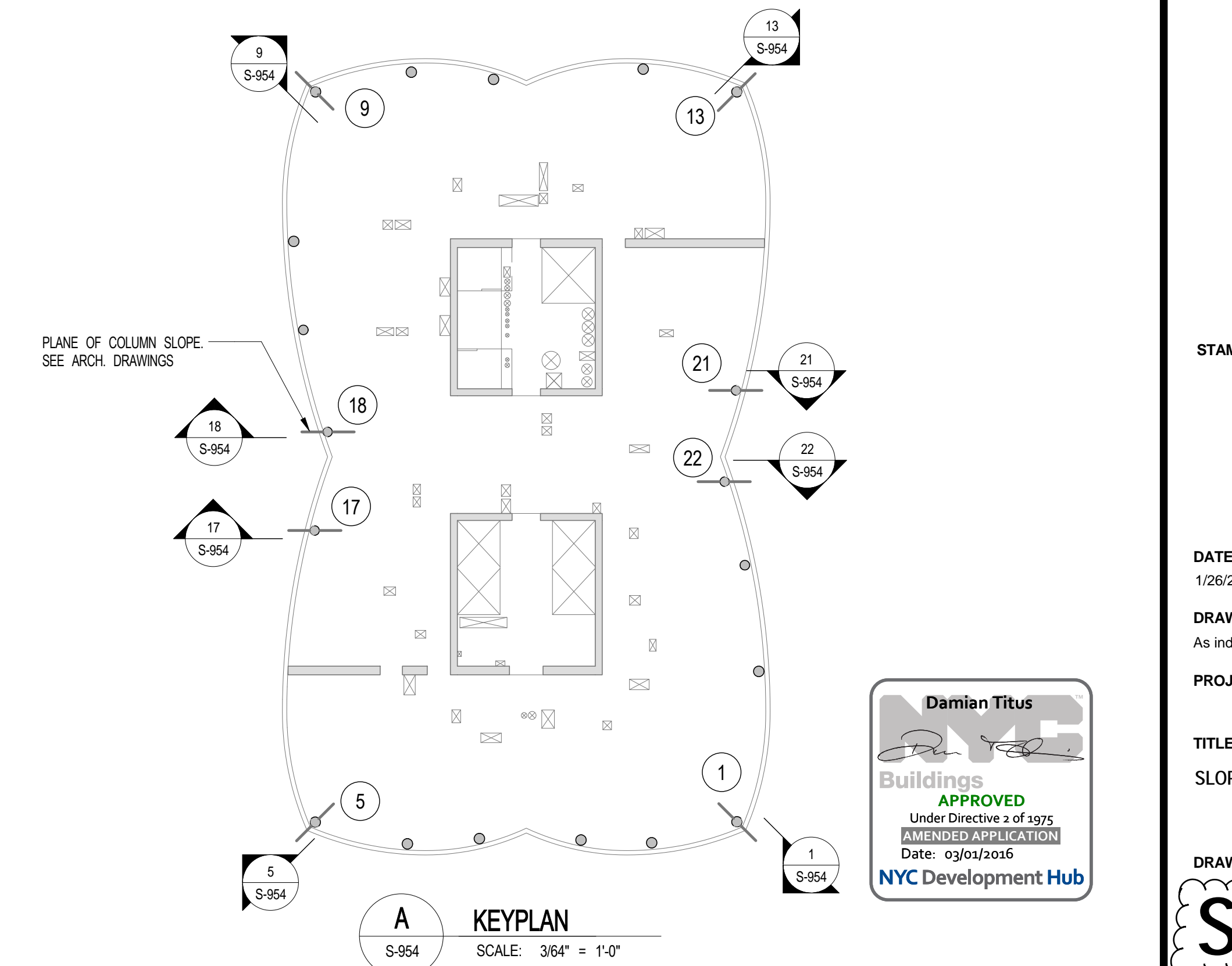
22 COLUMN 22 ELEVATION
S-954 SCALE: 1/8" = 1'-0"



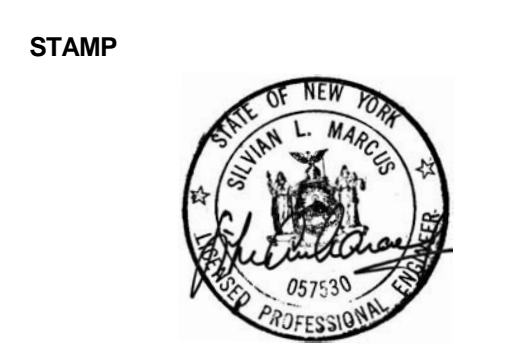
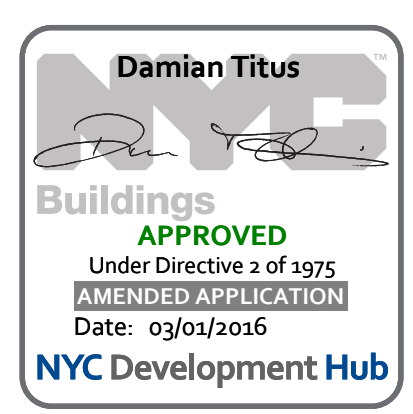
NOTES

1. ALL COORDINATES SHOWN ARE CENTERLINE OF CIRCULAR COLUMN PER KEY ABOVE.
2. ONLY SECTIONS OF SLOPED COLUMNS SHOWN. FOR COORDINATES OF STRAIGHT OR STEPPED COLUMNS SEE PLAN.
3. FOR SLOPED COLUMN DETAILS SEE S-562.
4. FOR COLUMN SIZE/REIN AND BALANCE OF NOTES SEE S-950 AND S-951.

ALL COORDINATES TO BE VERIFIED BY ARCHITECT PRIOR TO CONSTRUCTION.



A KEYPLAN
S-954 SCALE: 3/4" = 1'-0"



DATE OF PRINT
12/20/16 5:34:55 PM

DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
SLOPING COLUMN ELEVATIONS

DRAWING NO.
S-954.00

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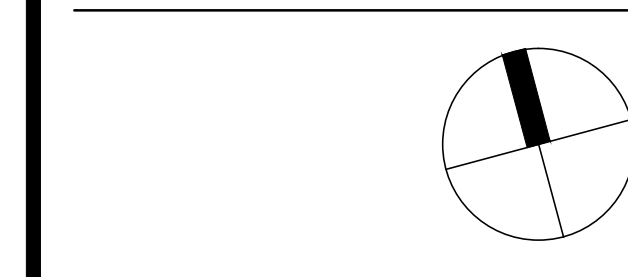
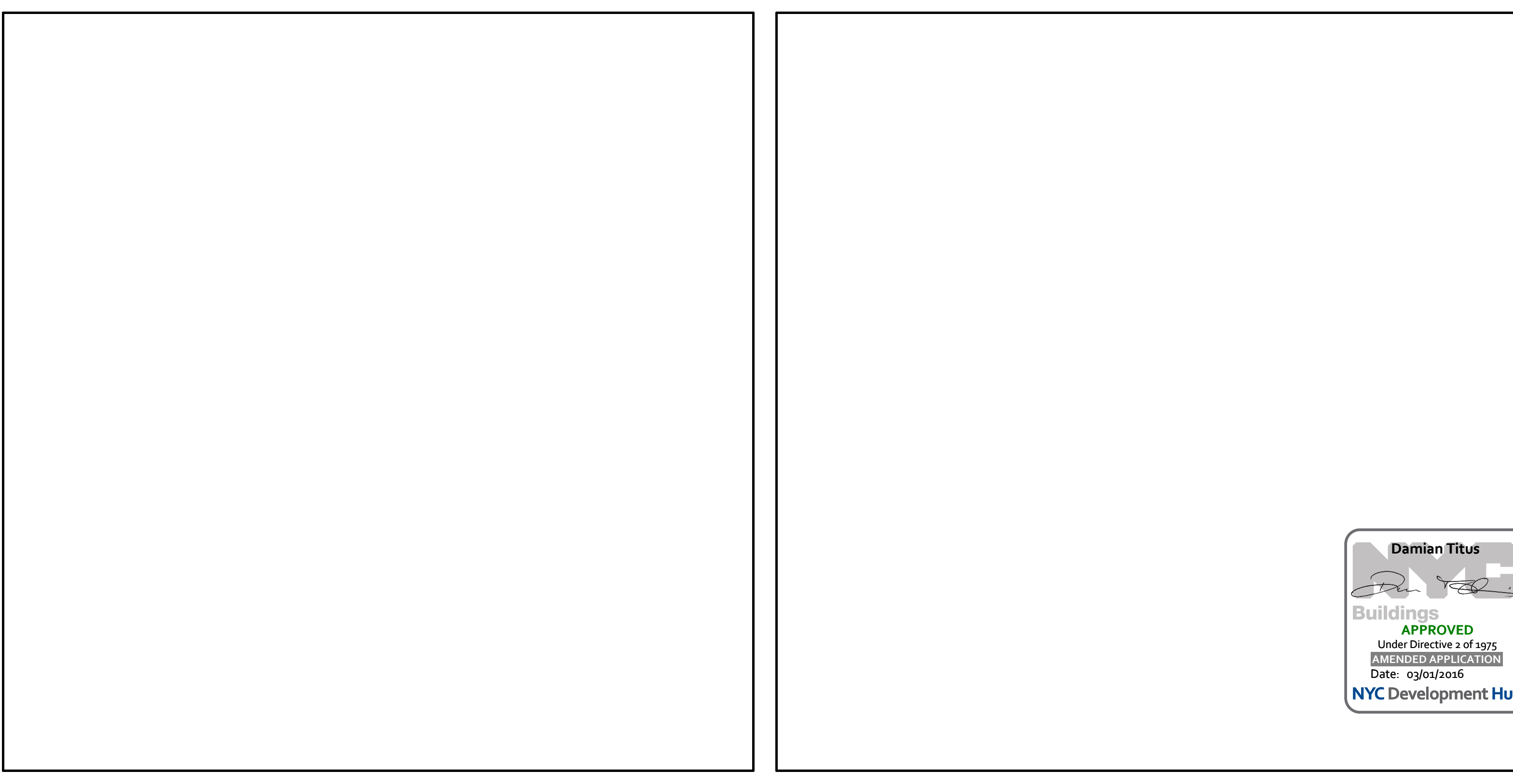
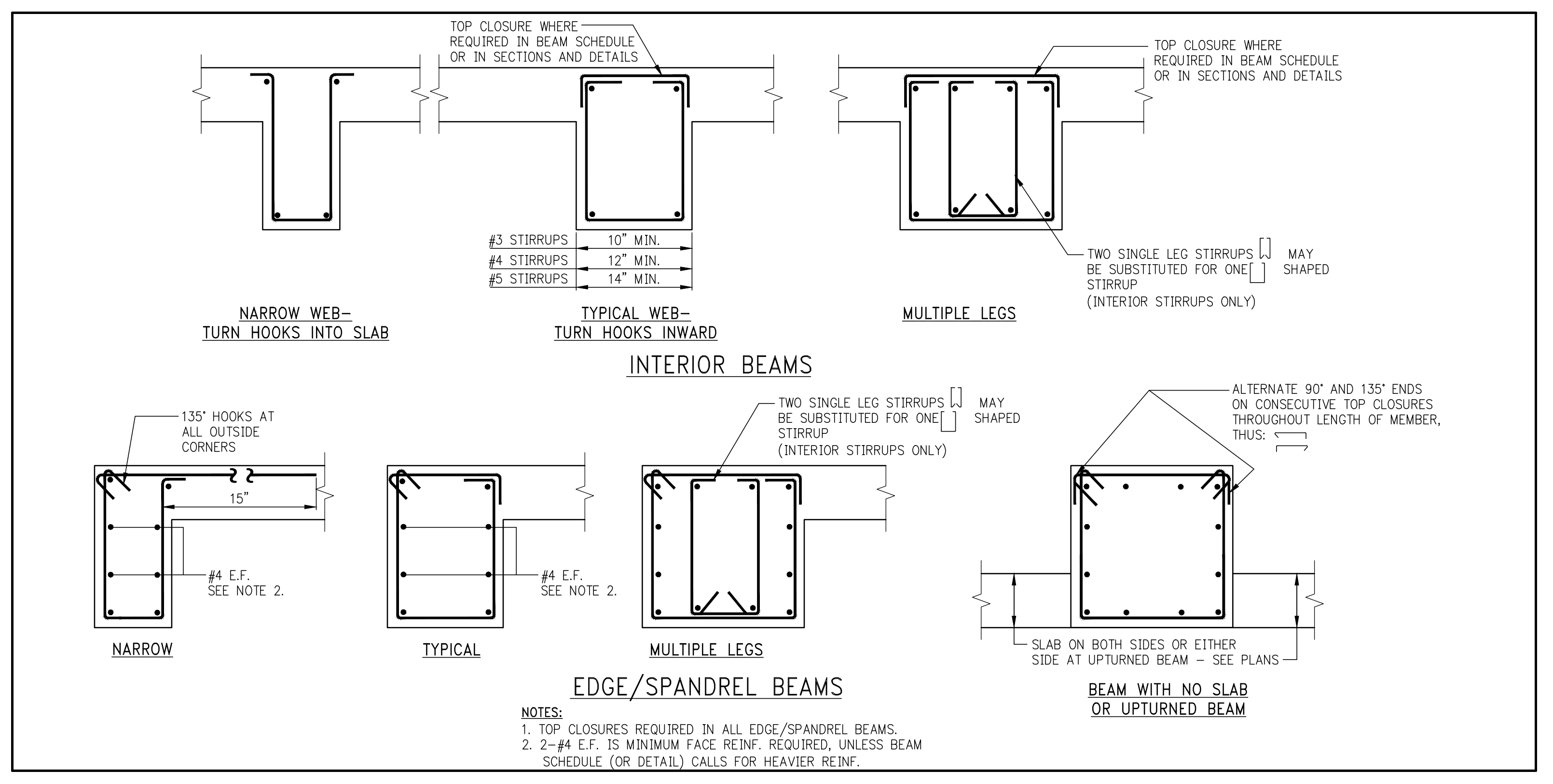
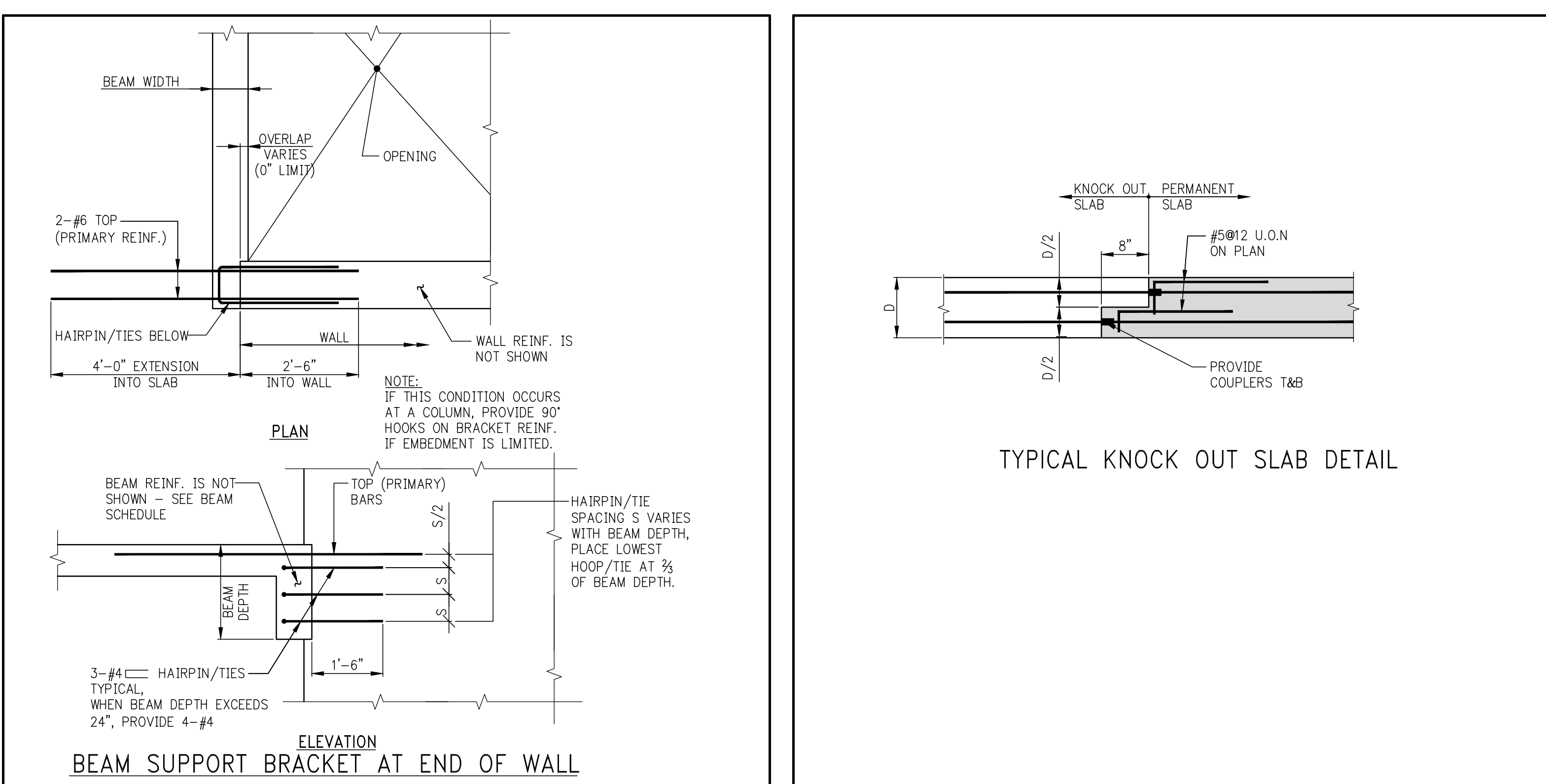
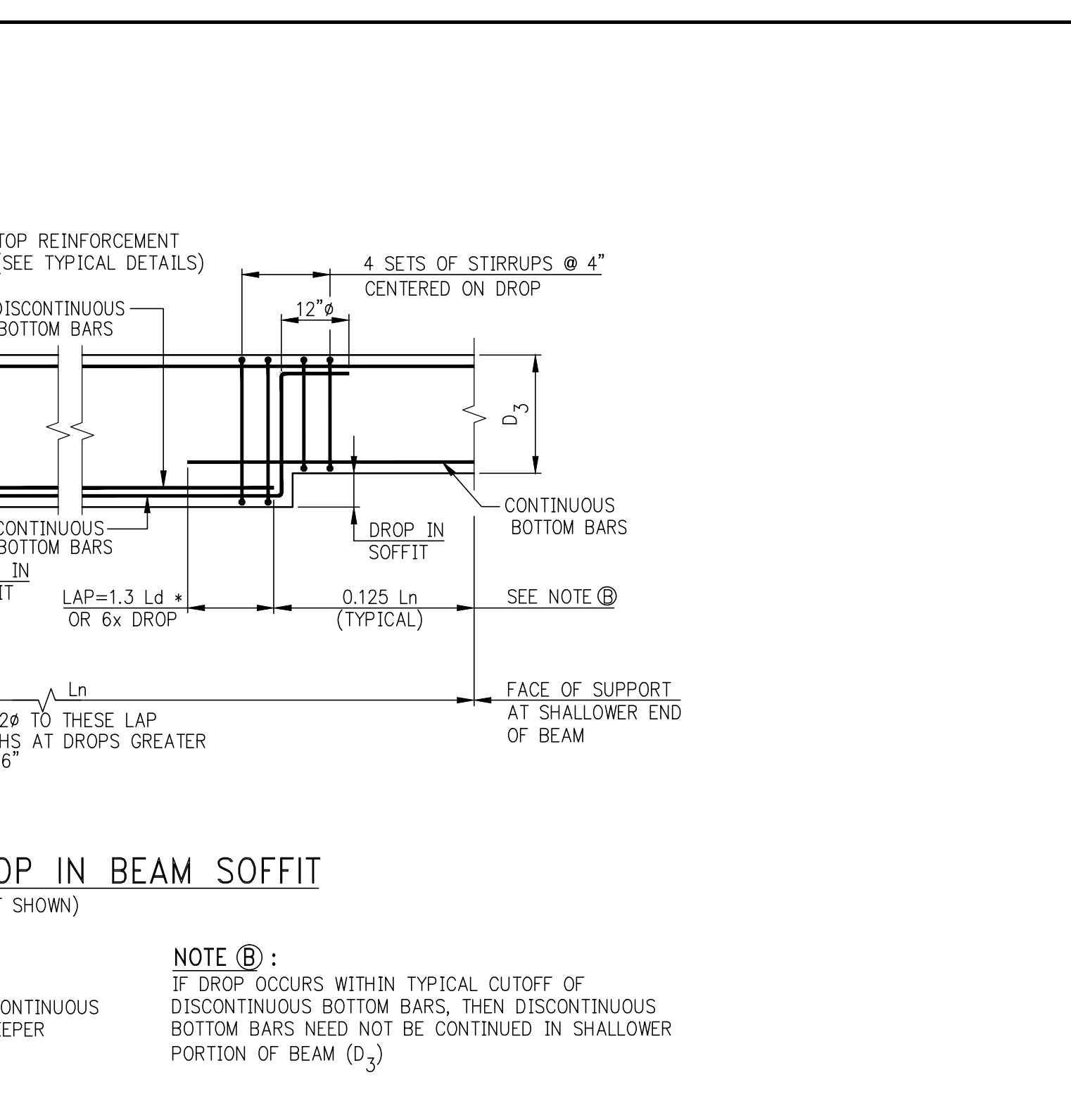
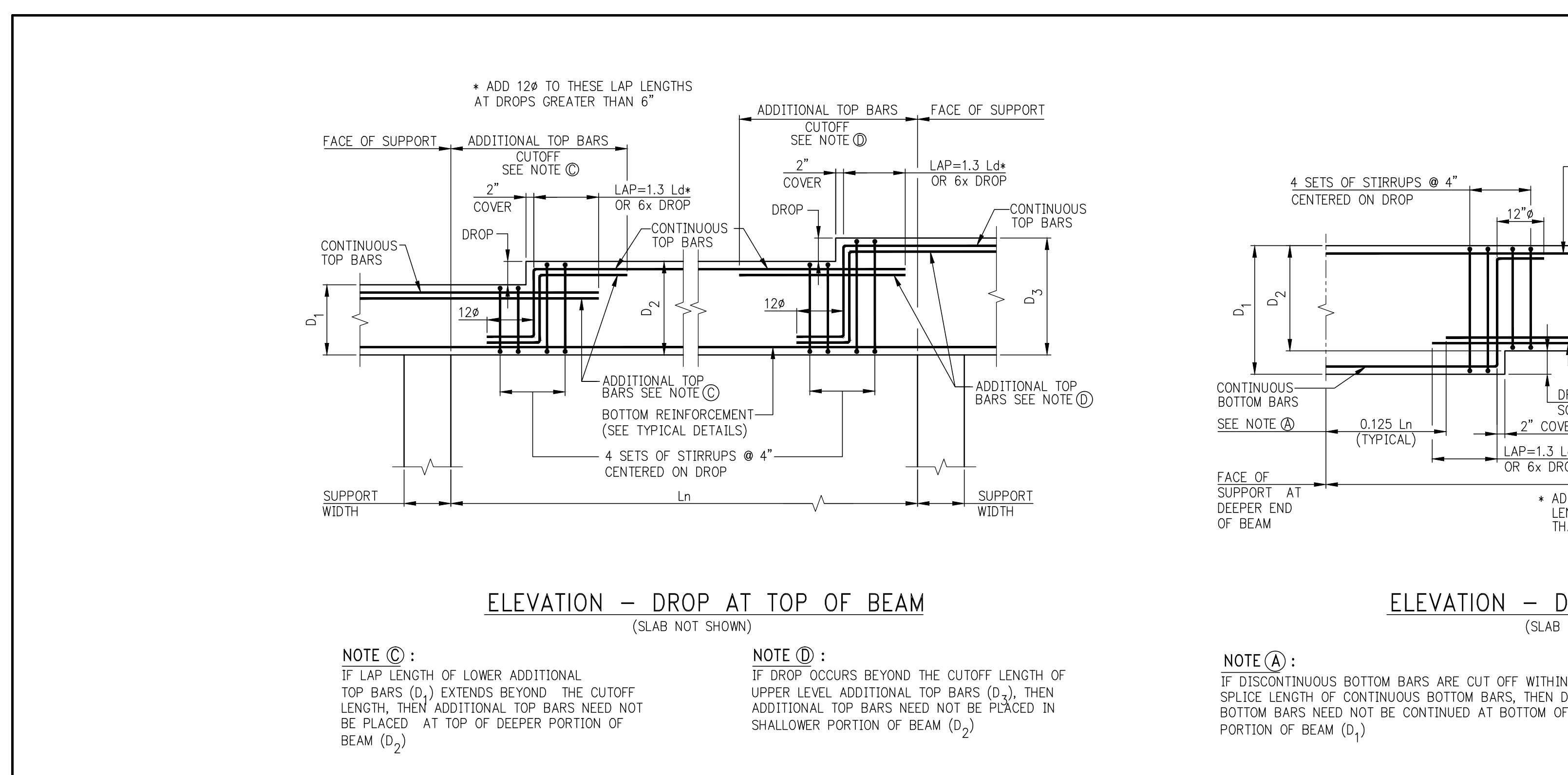
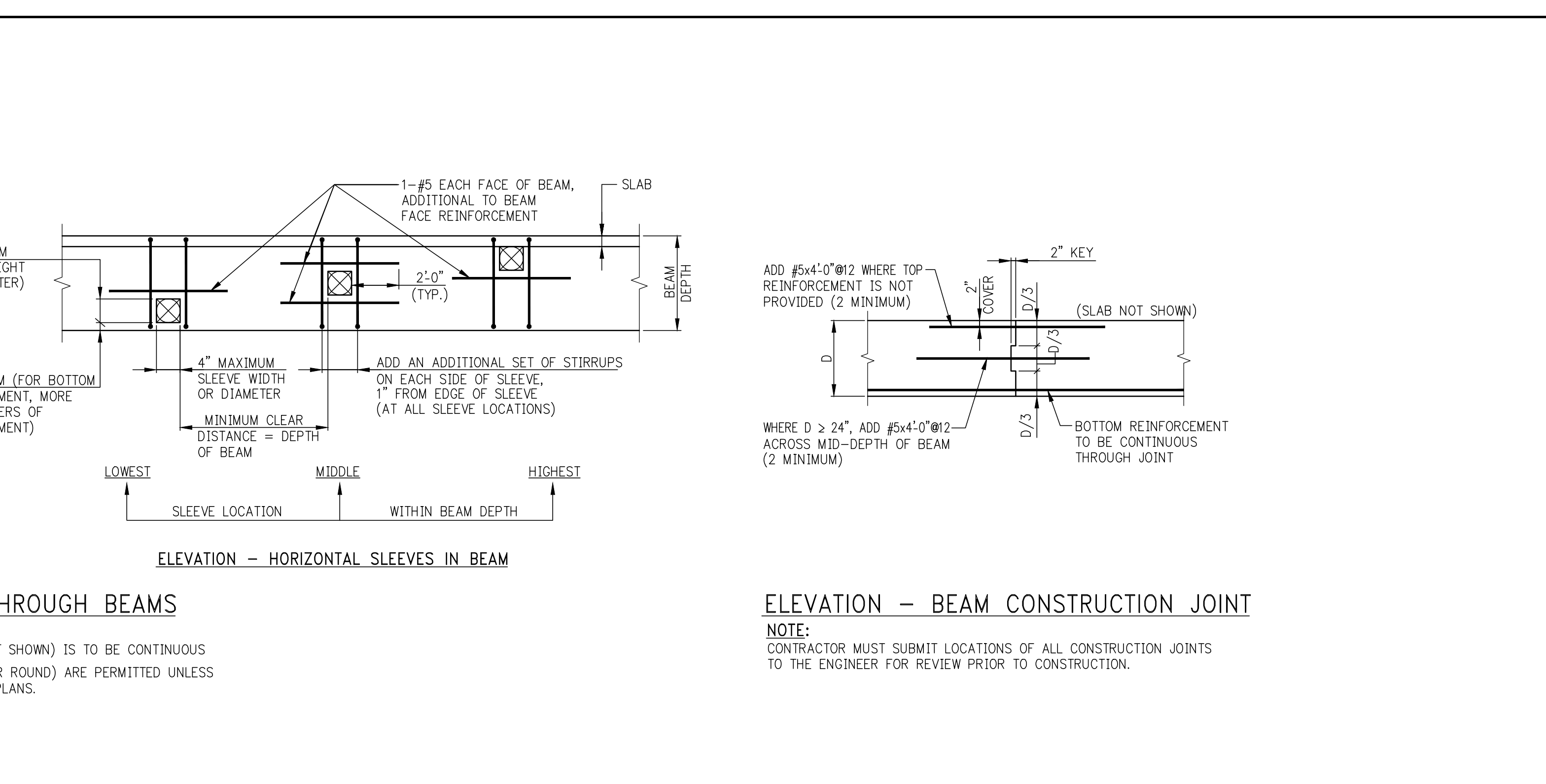
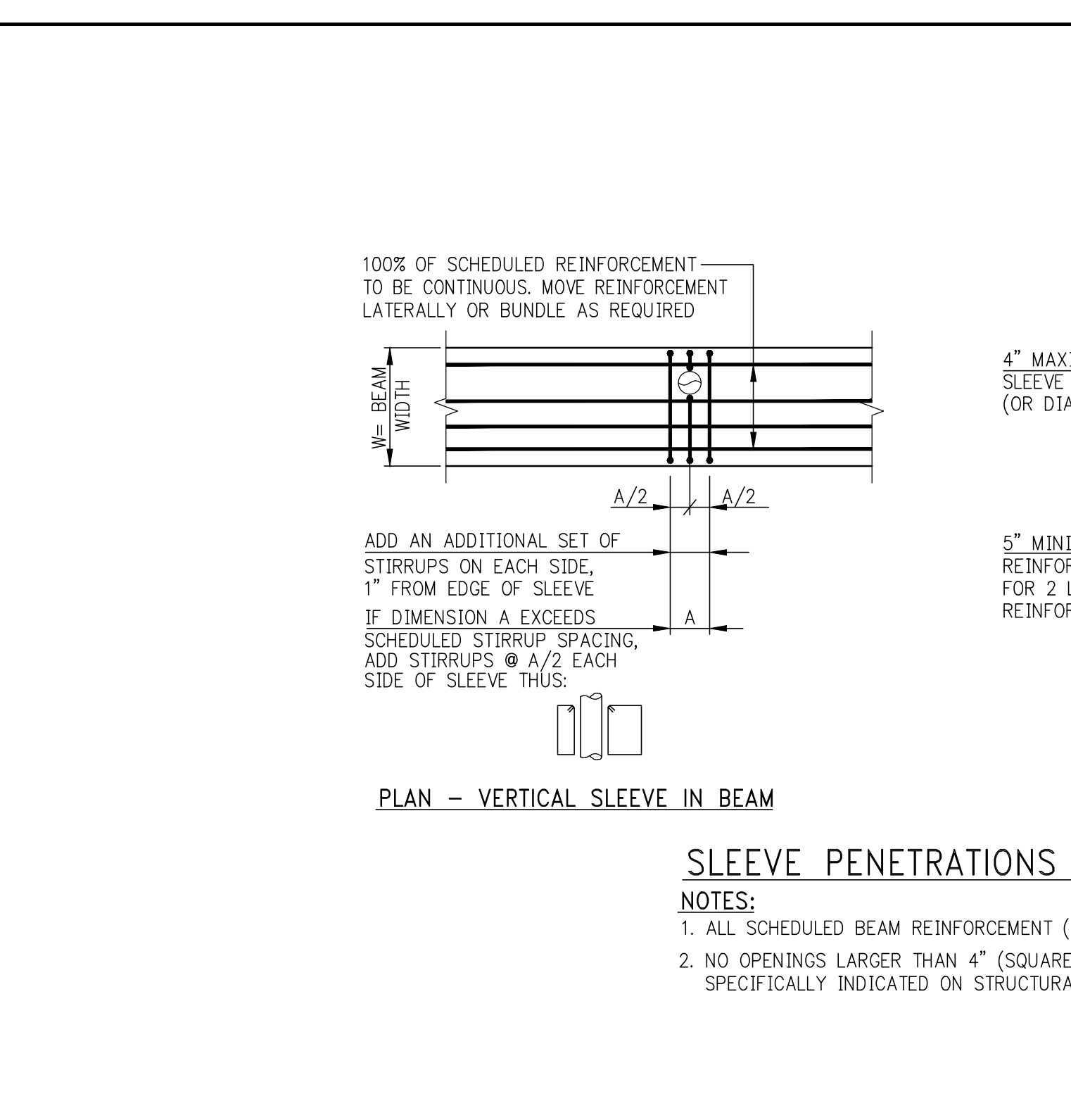
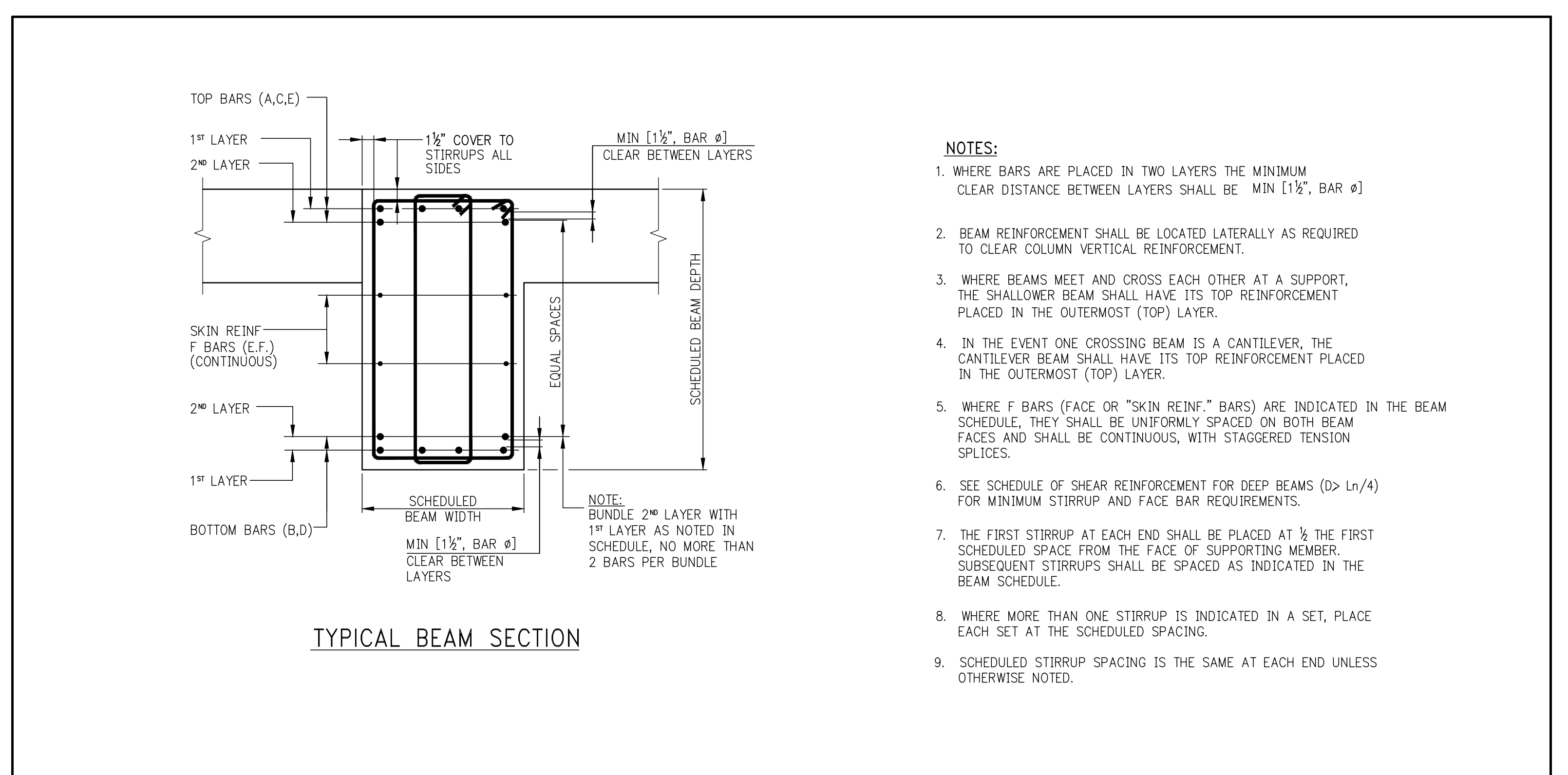
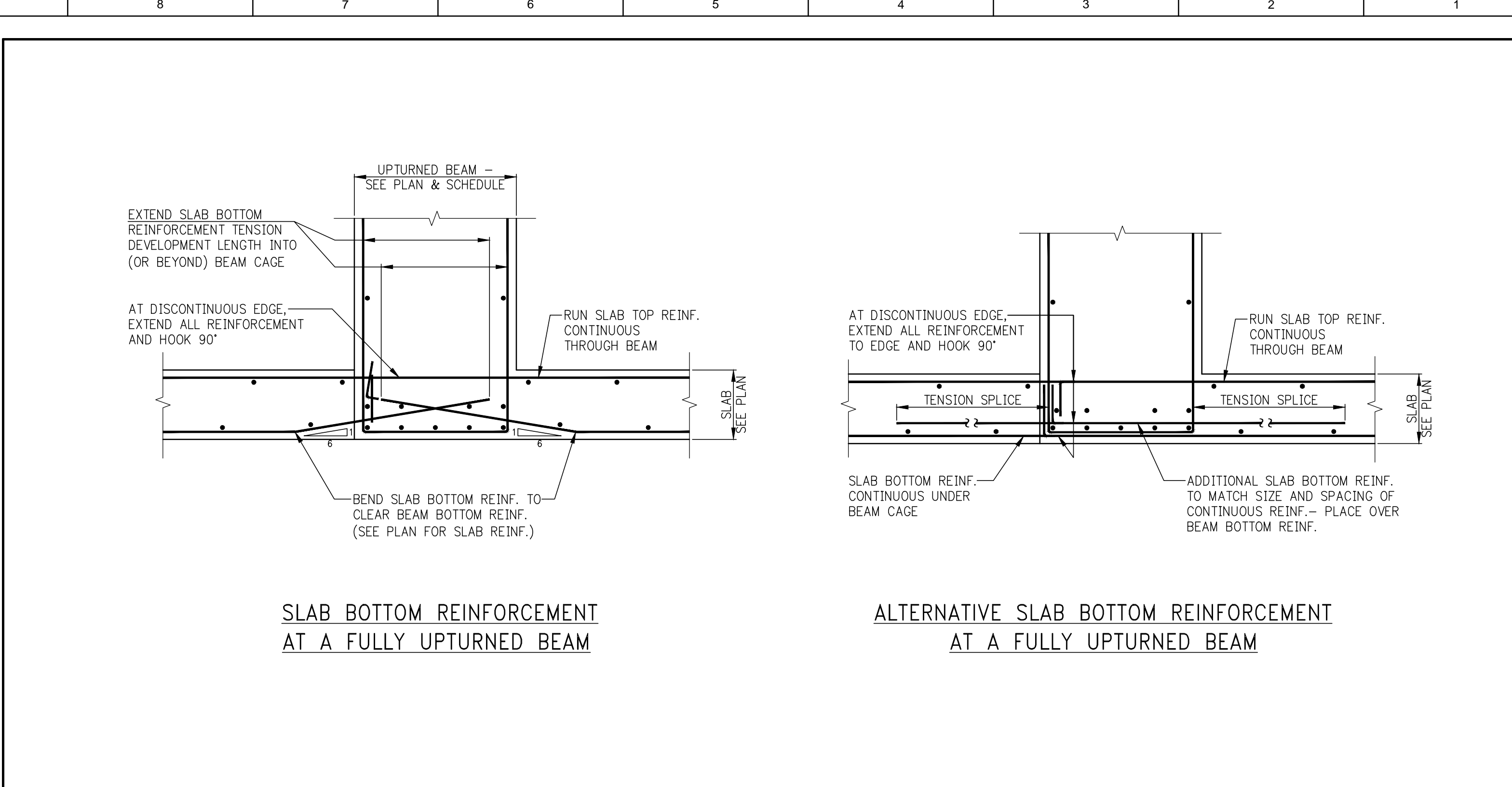
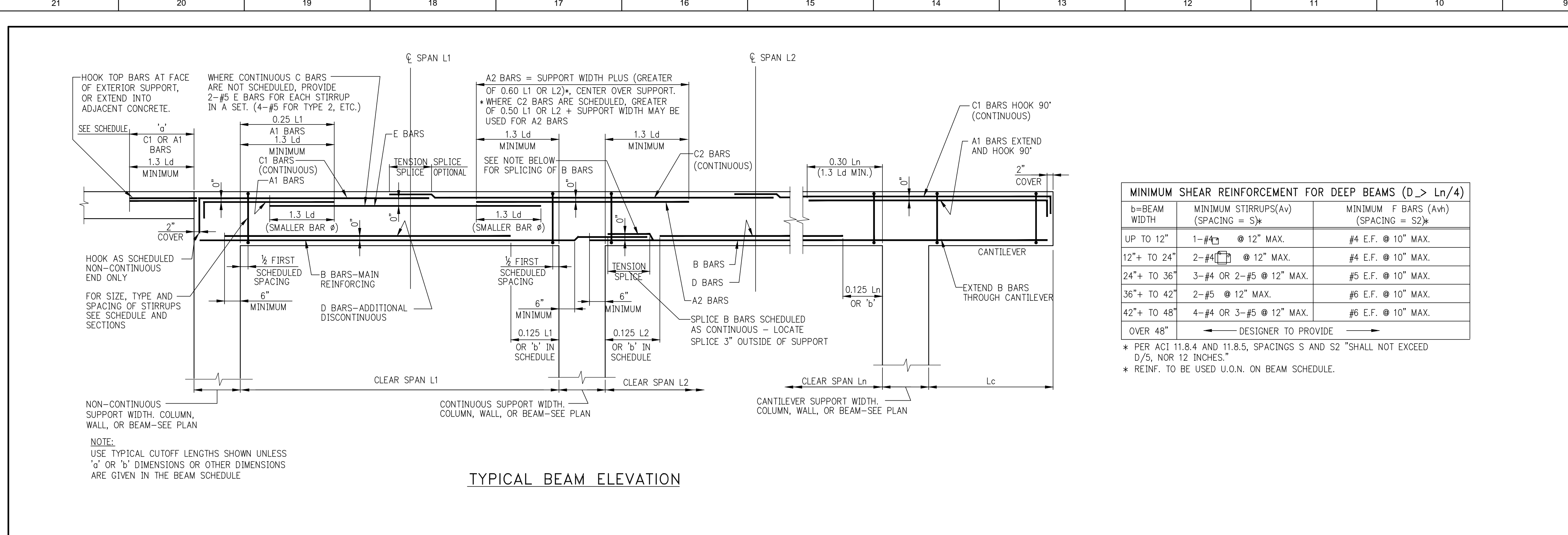
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SHEET NOTES:



NO	ISSUE SET	REV DATE
1	SUPERSTRUCTURE EARLY BID SET	11-17-14
2	DESIGN DEVELOPMENT SET	12-22-14
3	NYC SUBMISSION	12-23-14
4	UPDATED DOB SET	01-20-15
5	70% CD	04-27-15
6	85% CD	07-26-15
7	95% CD	11-24-15
8	PAA #2	01-26-16



DATE OF PRINT
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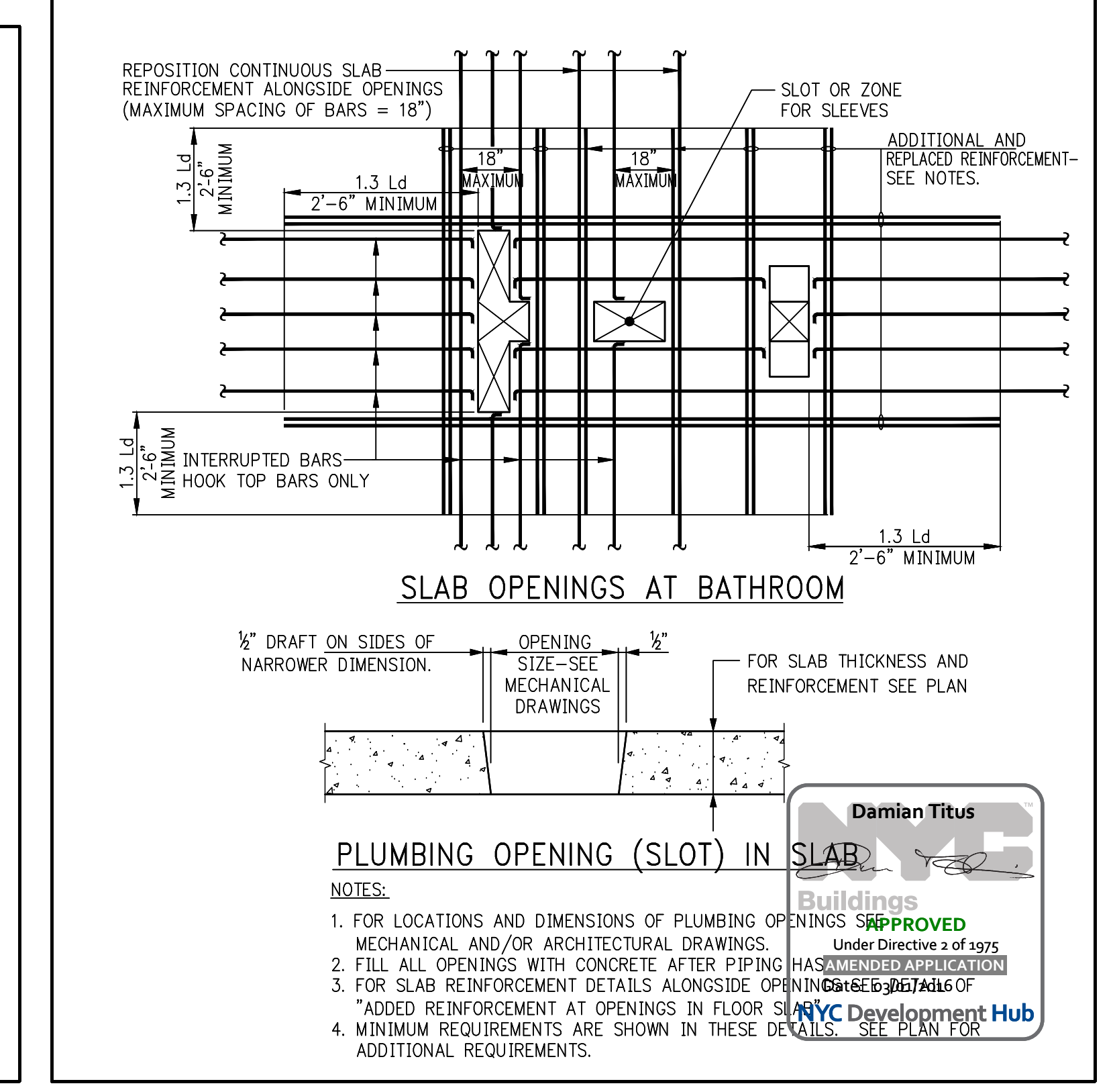
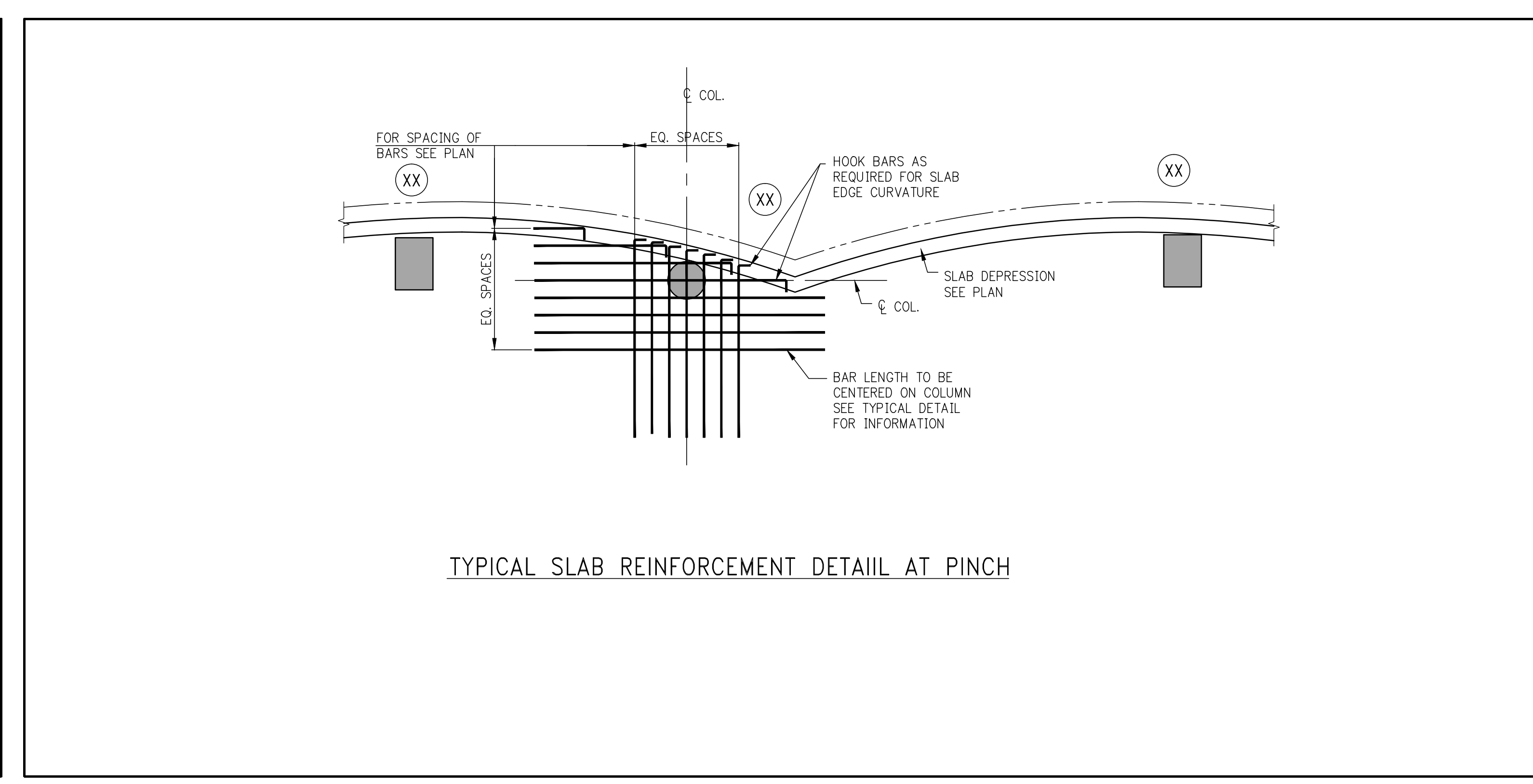
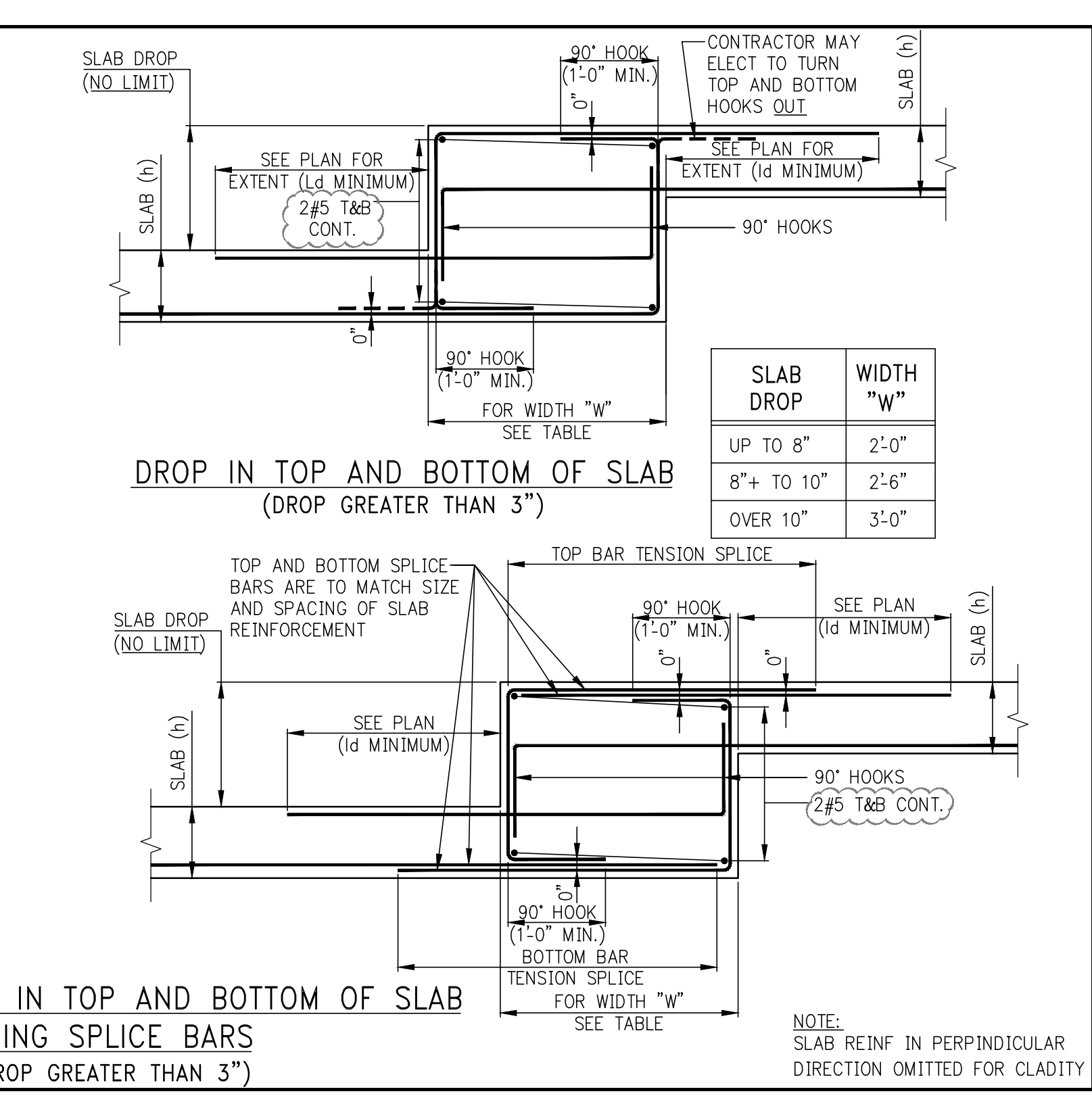
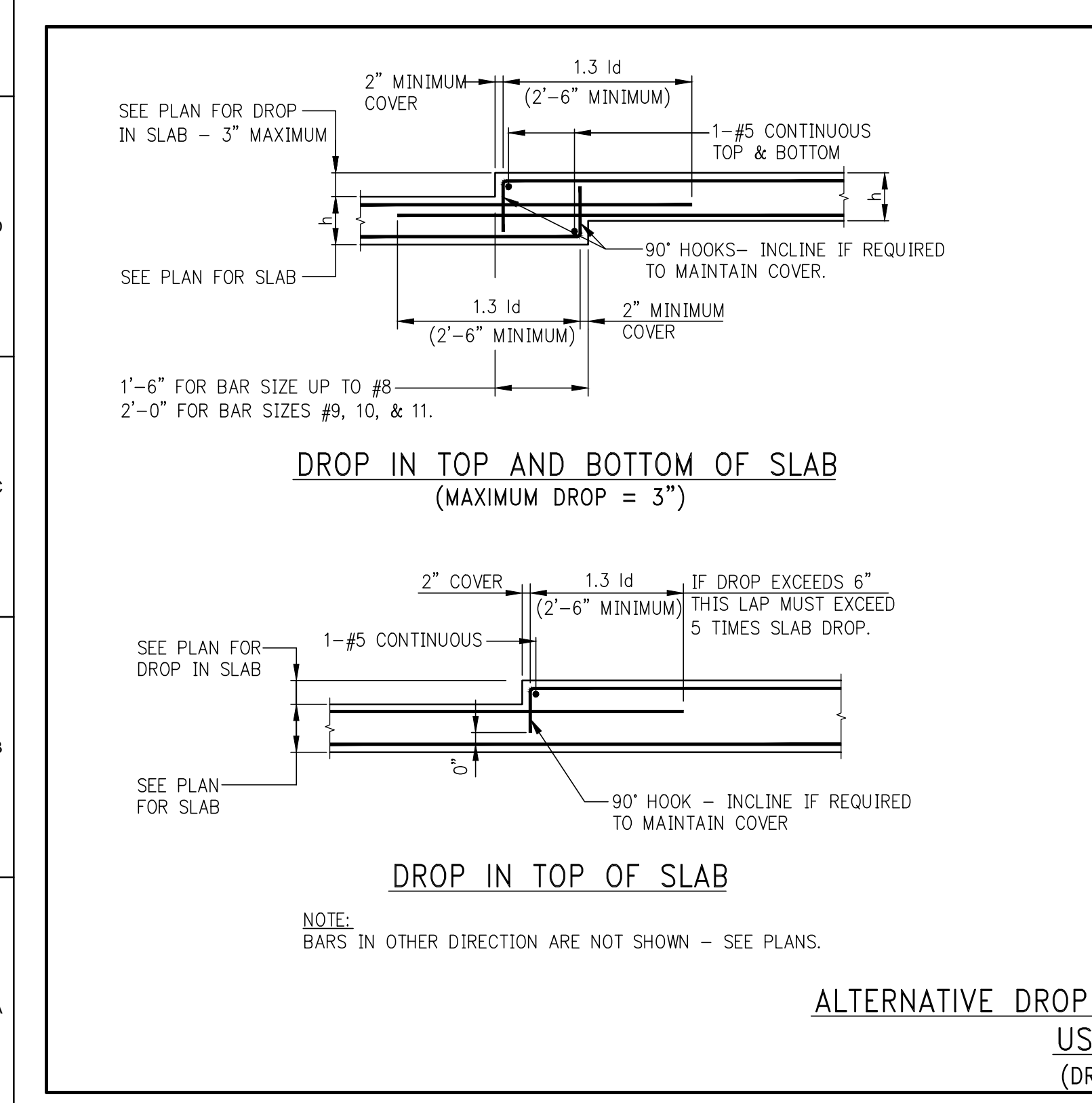
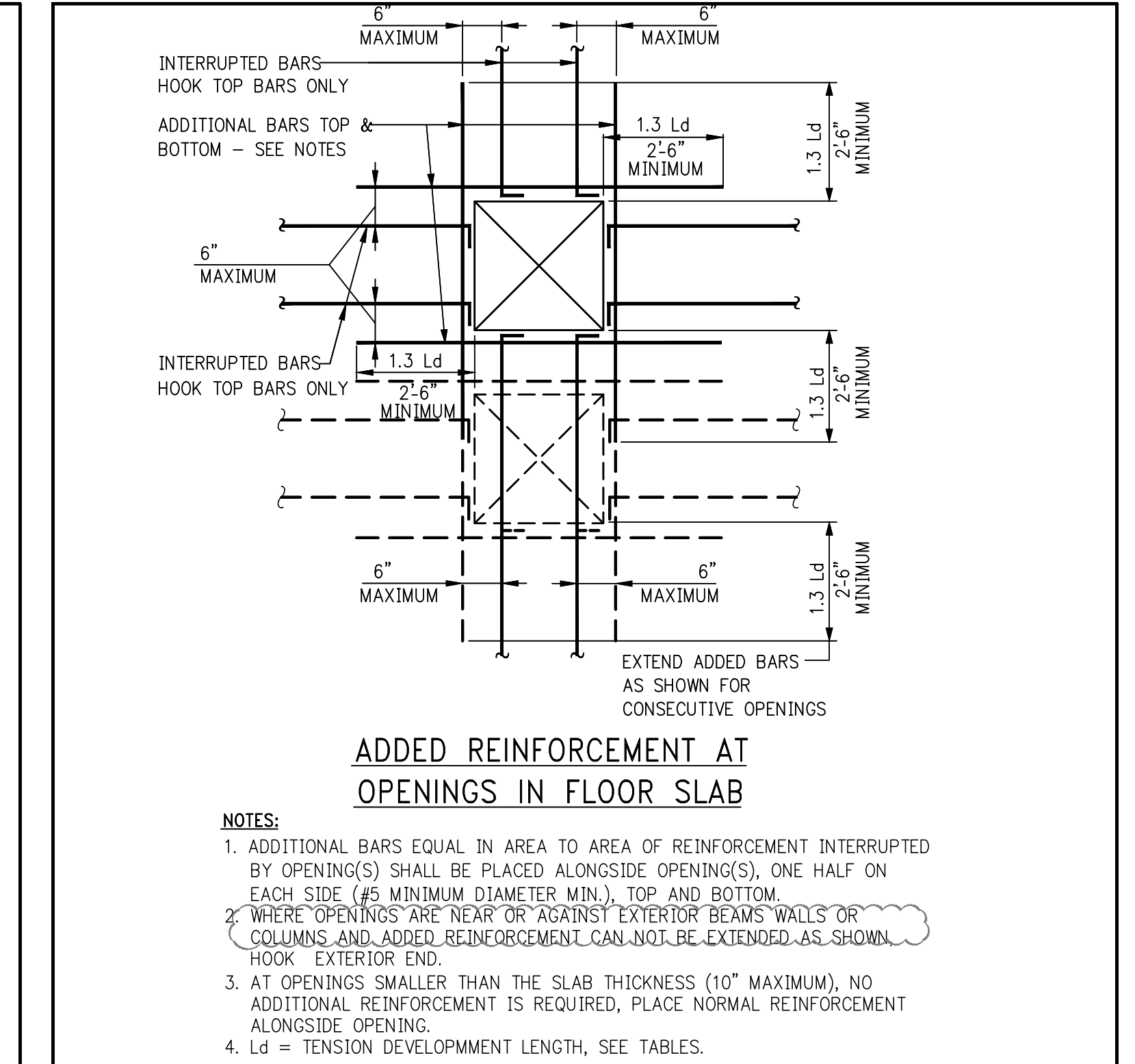
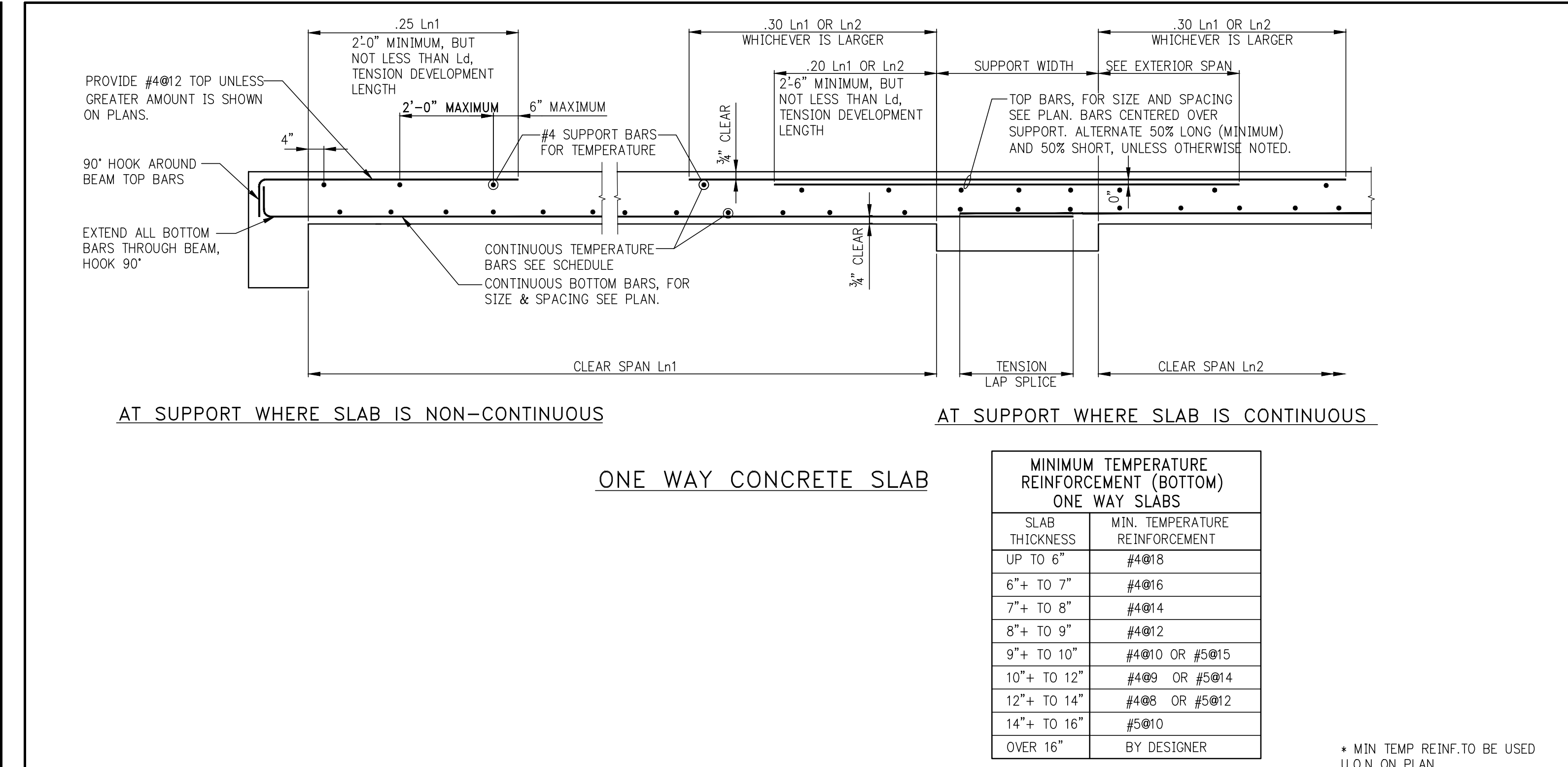
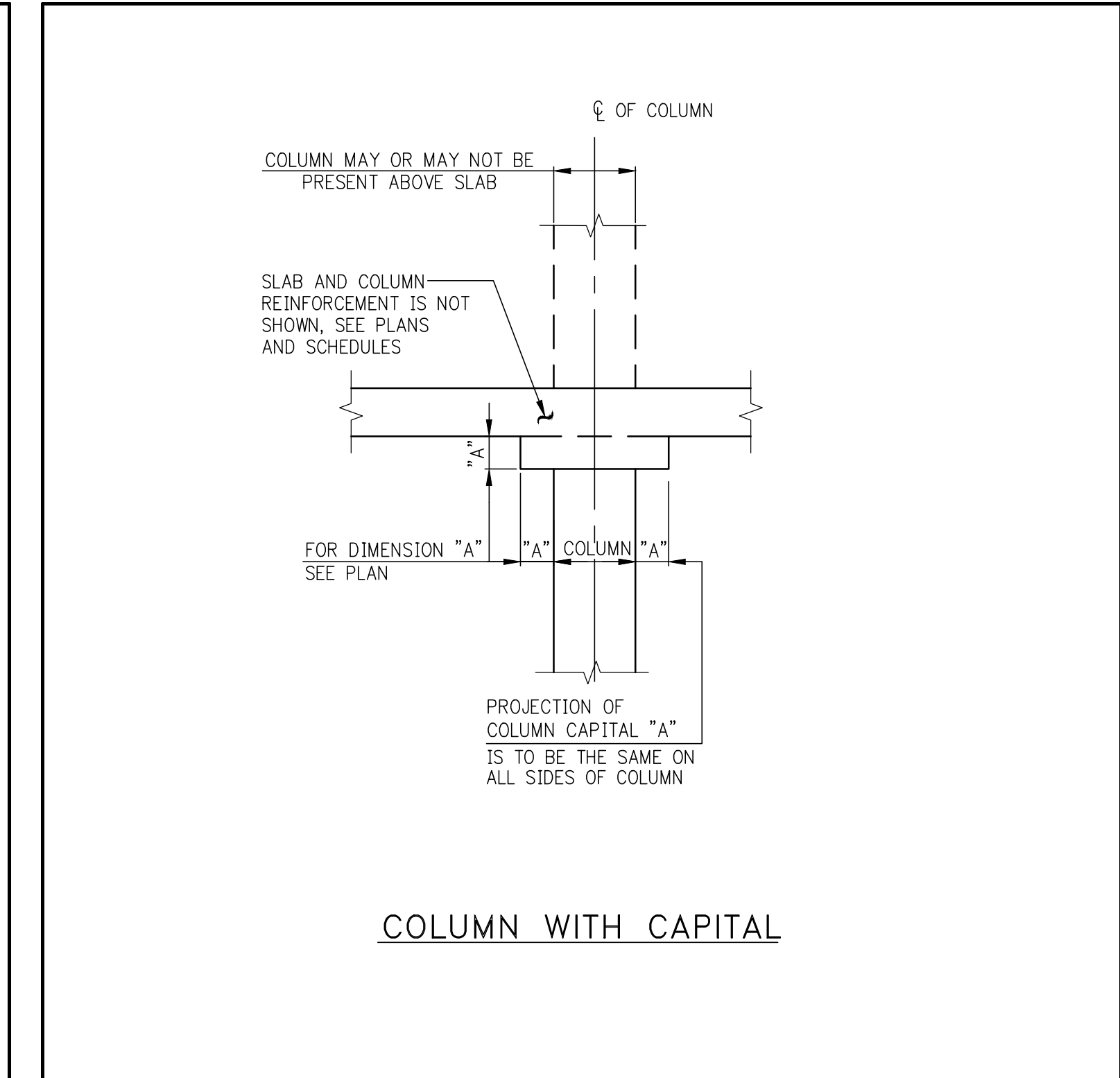
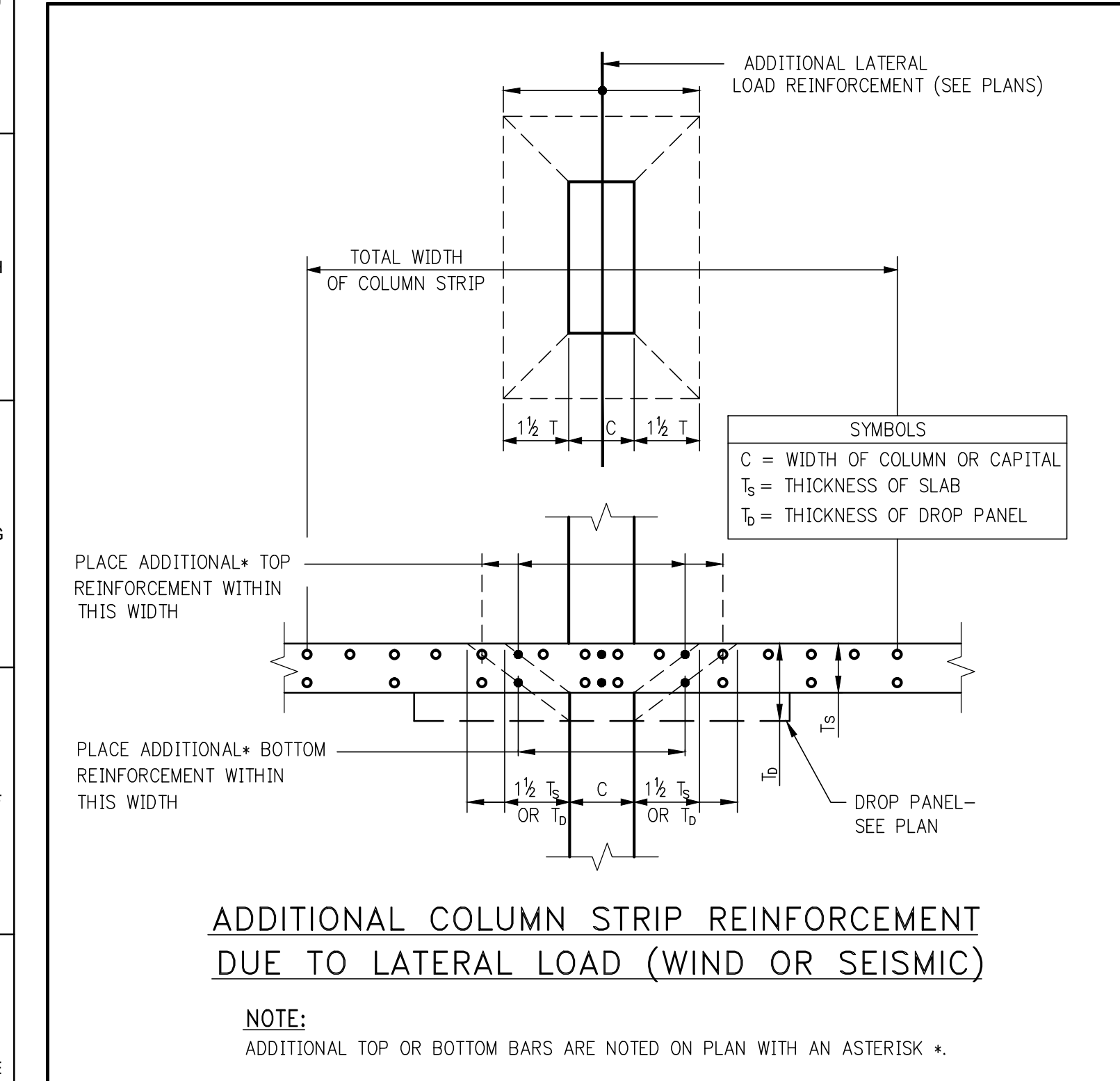
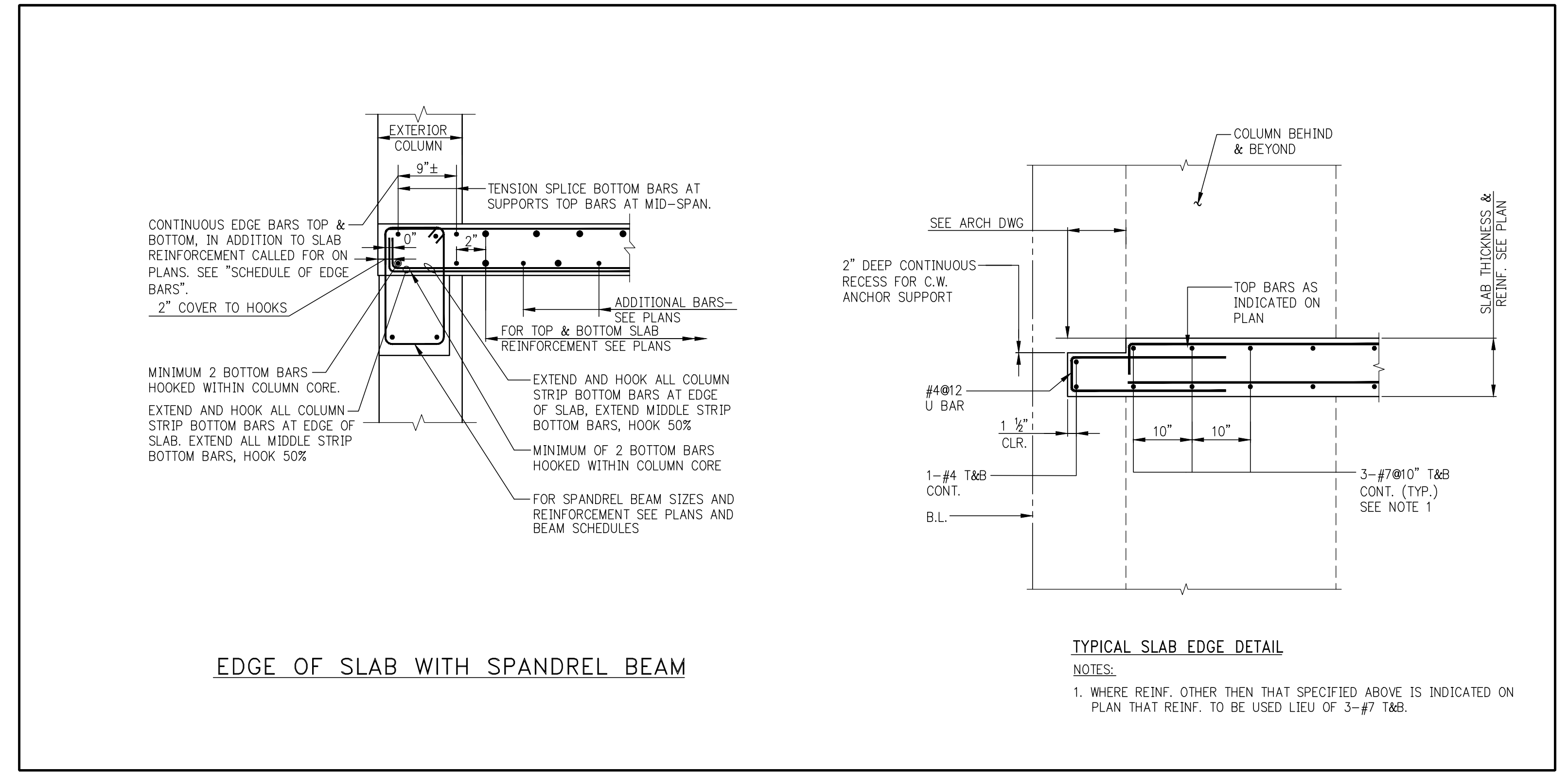
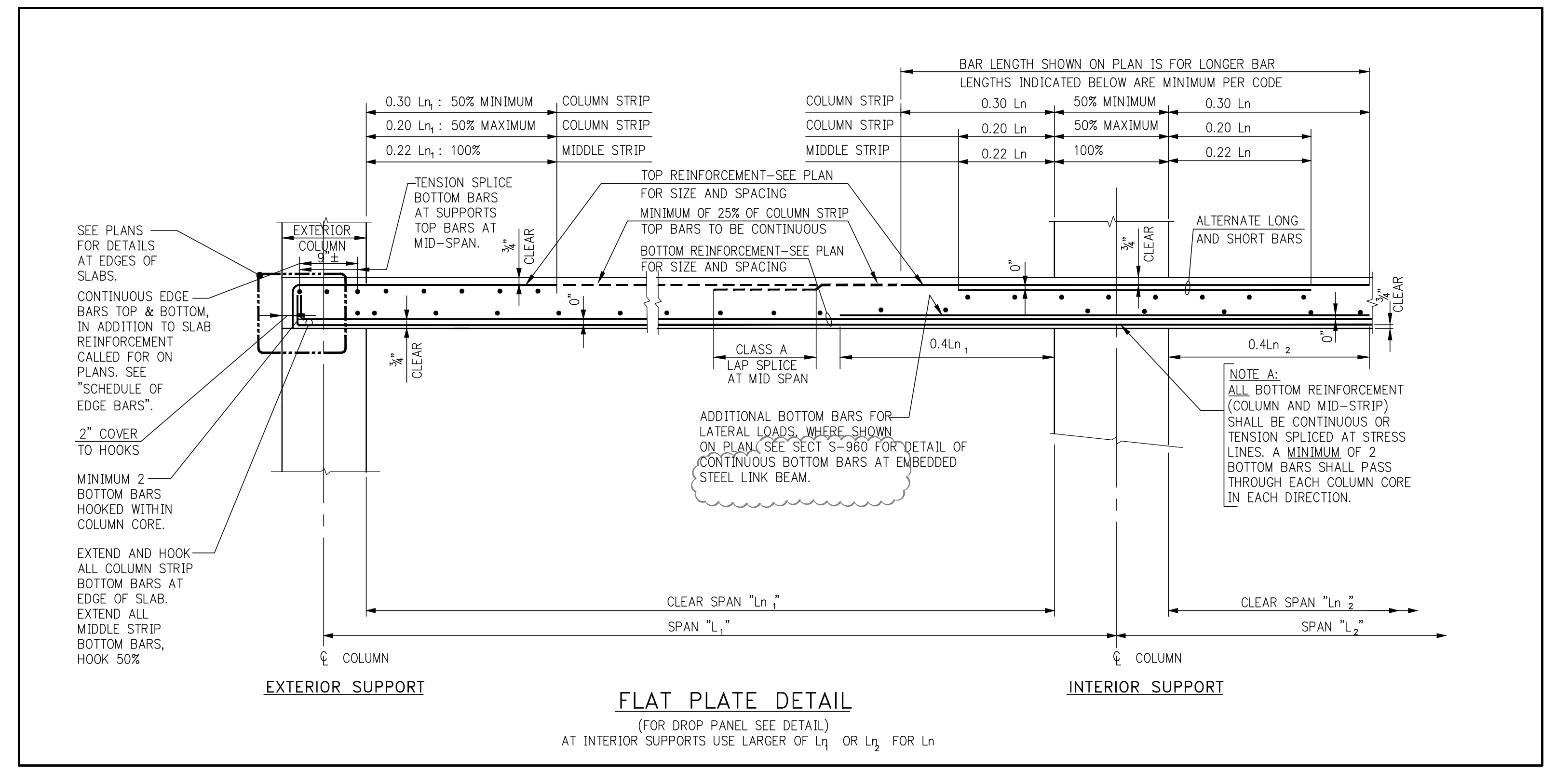
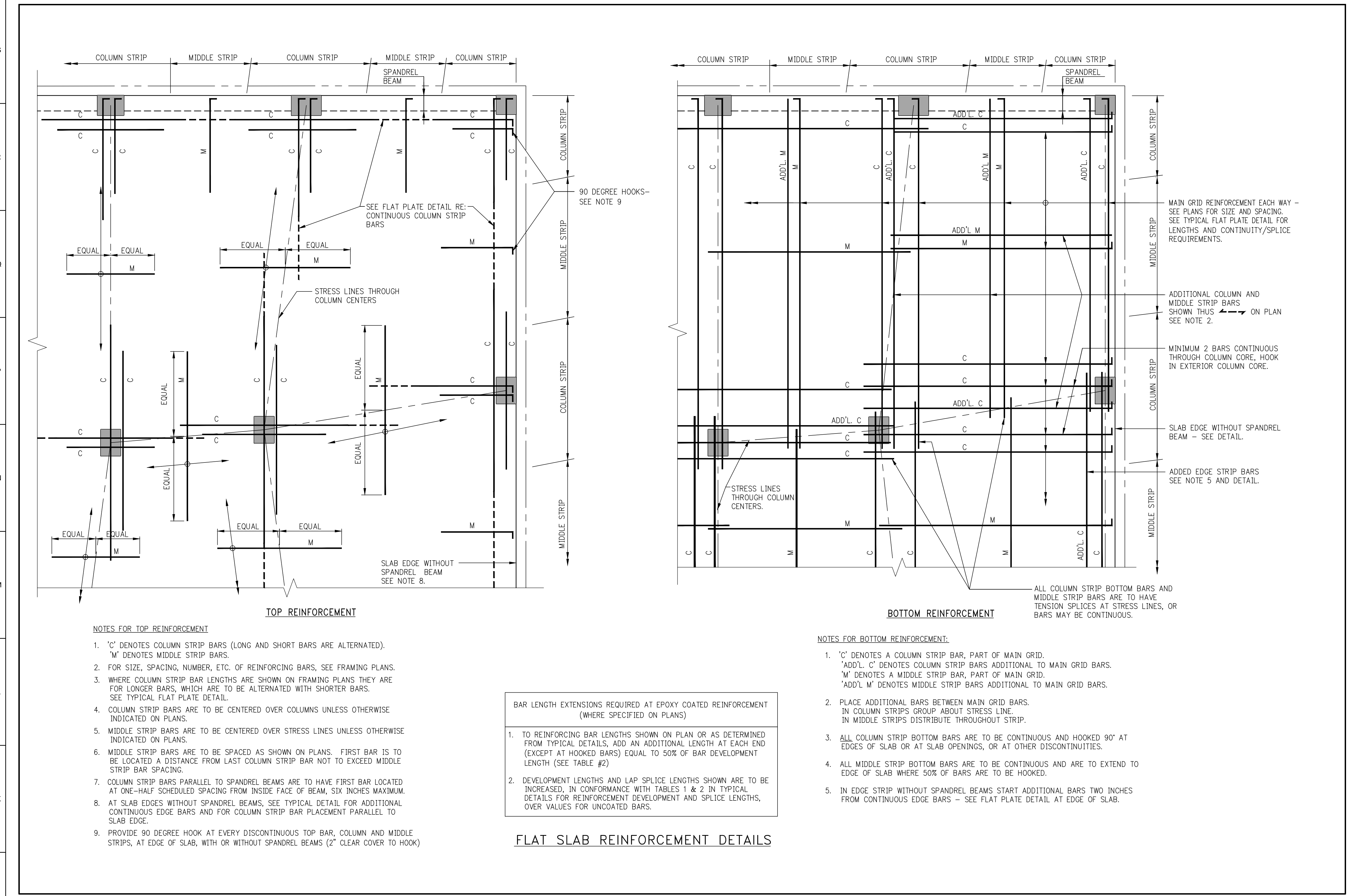
DRAWING SCALE

PROJECT NUMBER
2012068

TITLE
**TYPICAL SUPERSTRUCTURE
CONCRETE DETAILS 1**

DRAWING NO.
S-960.01

Damian Titus
Buildings
APPROVED
Under Executive Order of 2015
AUTENSED APPLICATION
Date: 03/01/2016
NYC Development Hub



15 HUDSON YARDS
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SHEET NOTES:

NO	ISSUE SET	REV	DATE
1	SUPERSTRUCTURE EARLY BID		11-17-14
2	SET		12-22-14
3	DESIGN DEVELOPMENT SET		12-23-14
4	RFCT SUBMISSION		01-20-15
5	UPDATED DCDB SET		04-27-15
6	70% CD		07-02-15
7	85% CD		11-24-15
8	95% CD		01-26-16

STAMP:
DAMIAN TITUS
REGISTERED PROFESSIONAL ENGINEER
NO. 13127
STATE OF NEW YORK

DATE OF PRINT:
2016-01-26

DRAWING SCALE:
AS SHOWN

PROJECT NUMBER:
2012066

TITLE:
TYPICAL SUPERSTRUCTURE
CONCRETE DETAILS 2

DRAWING NO.:
S-961.01

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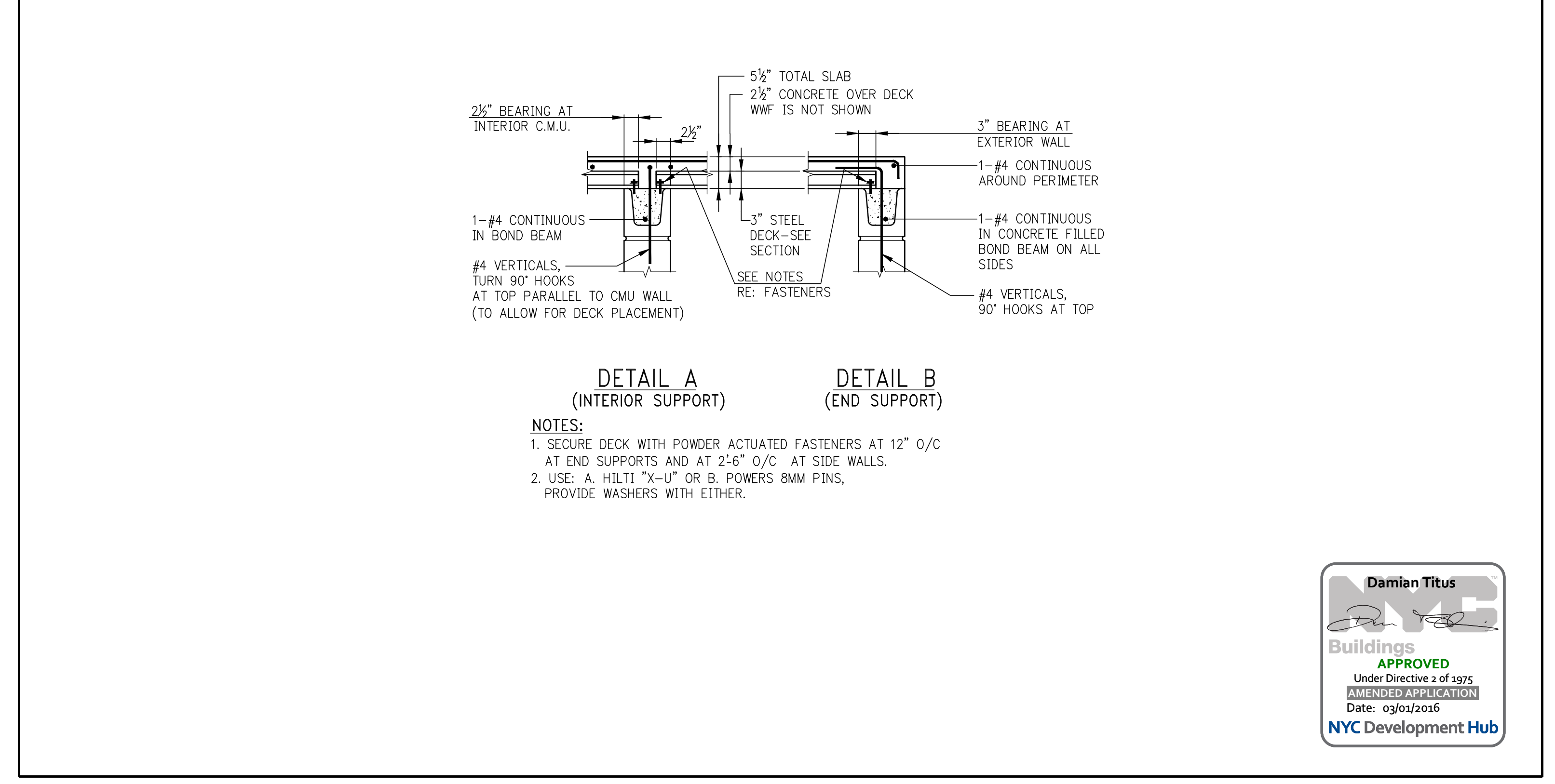
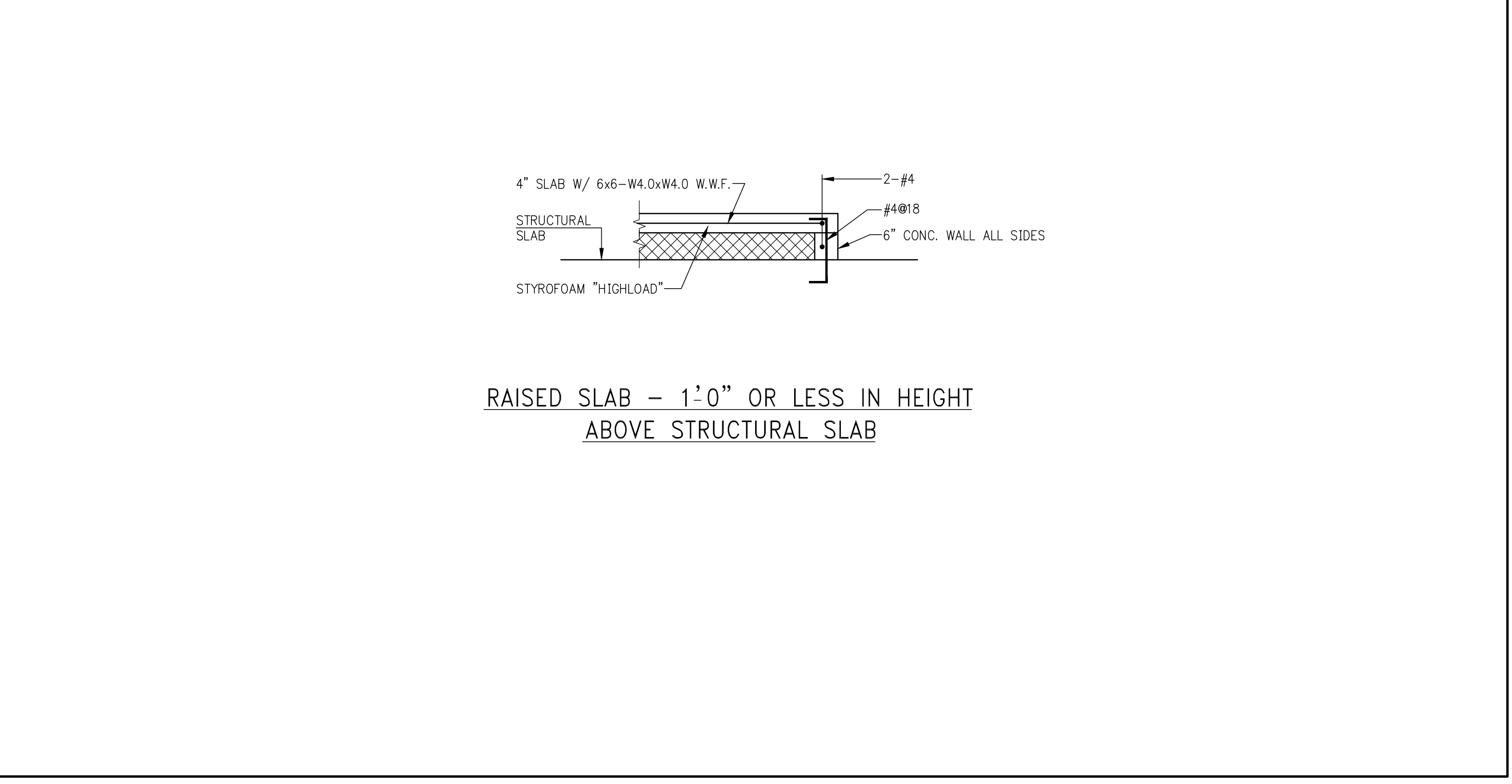
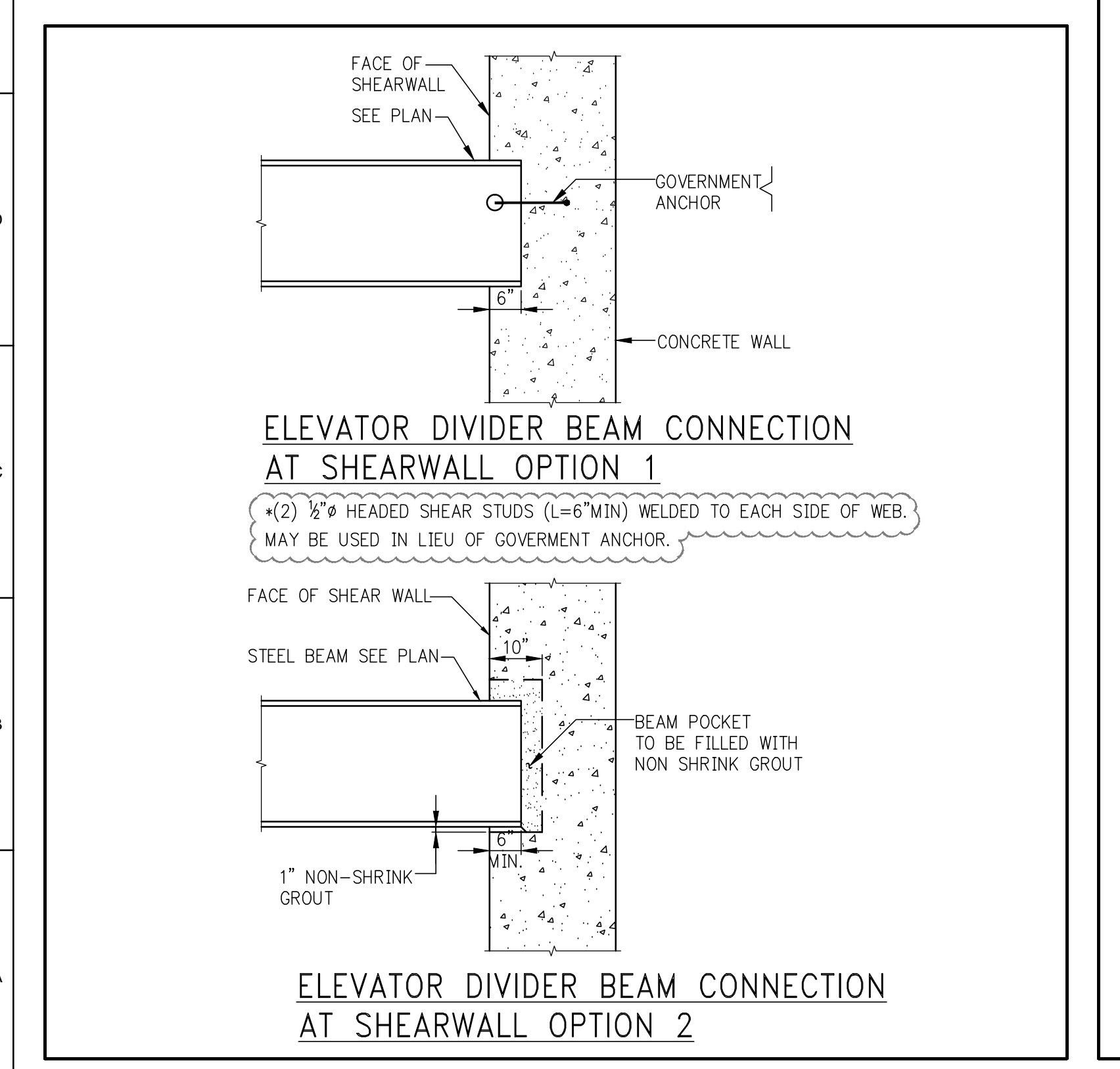
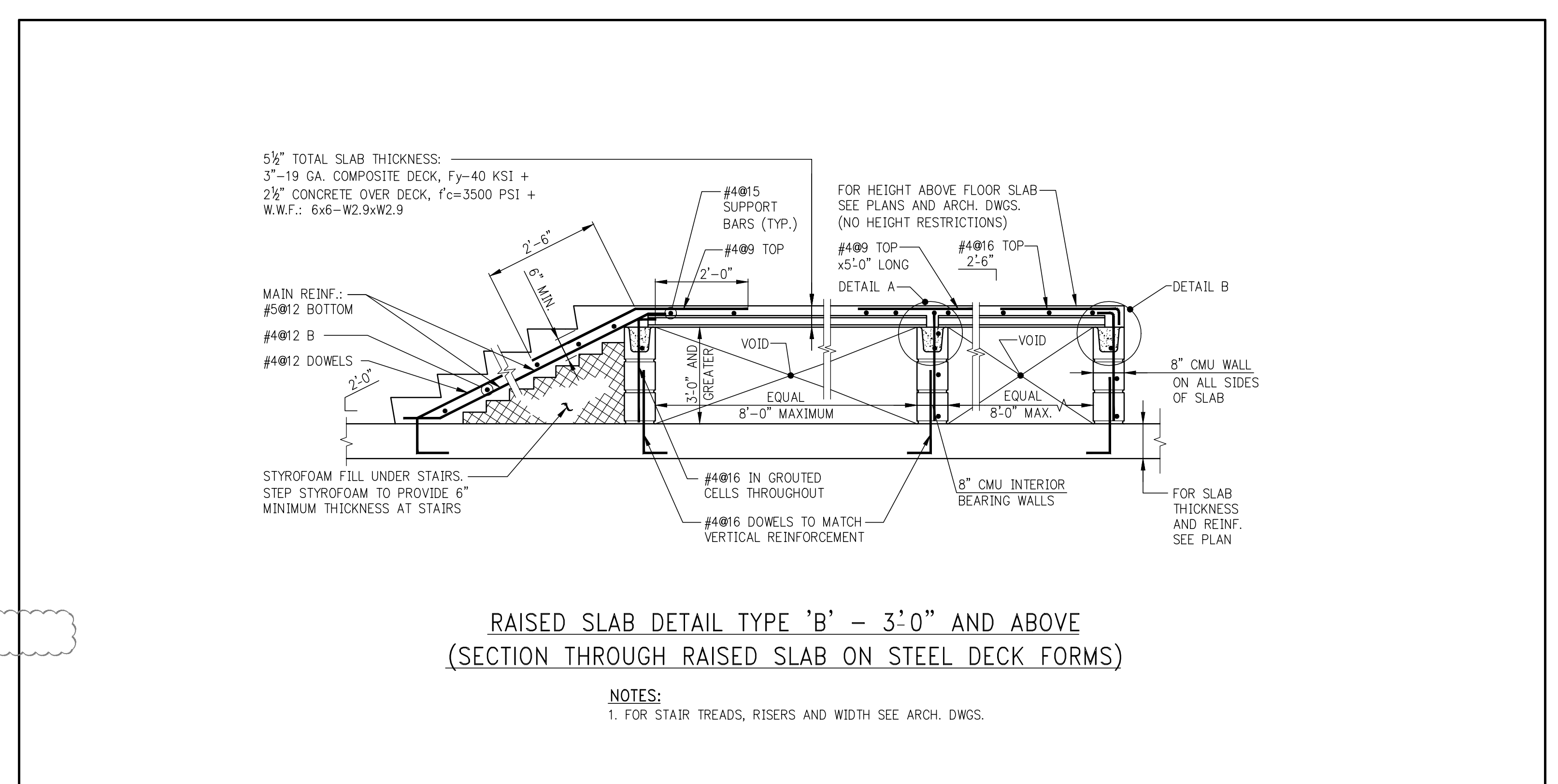
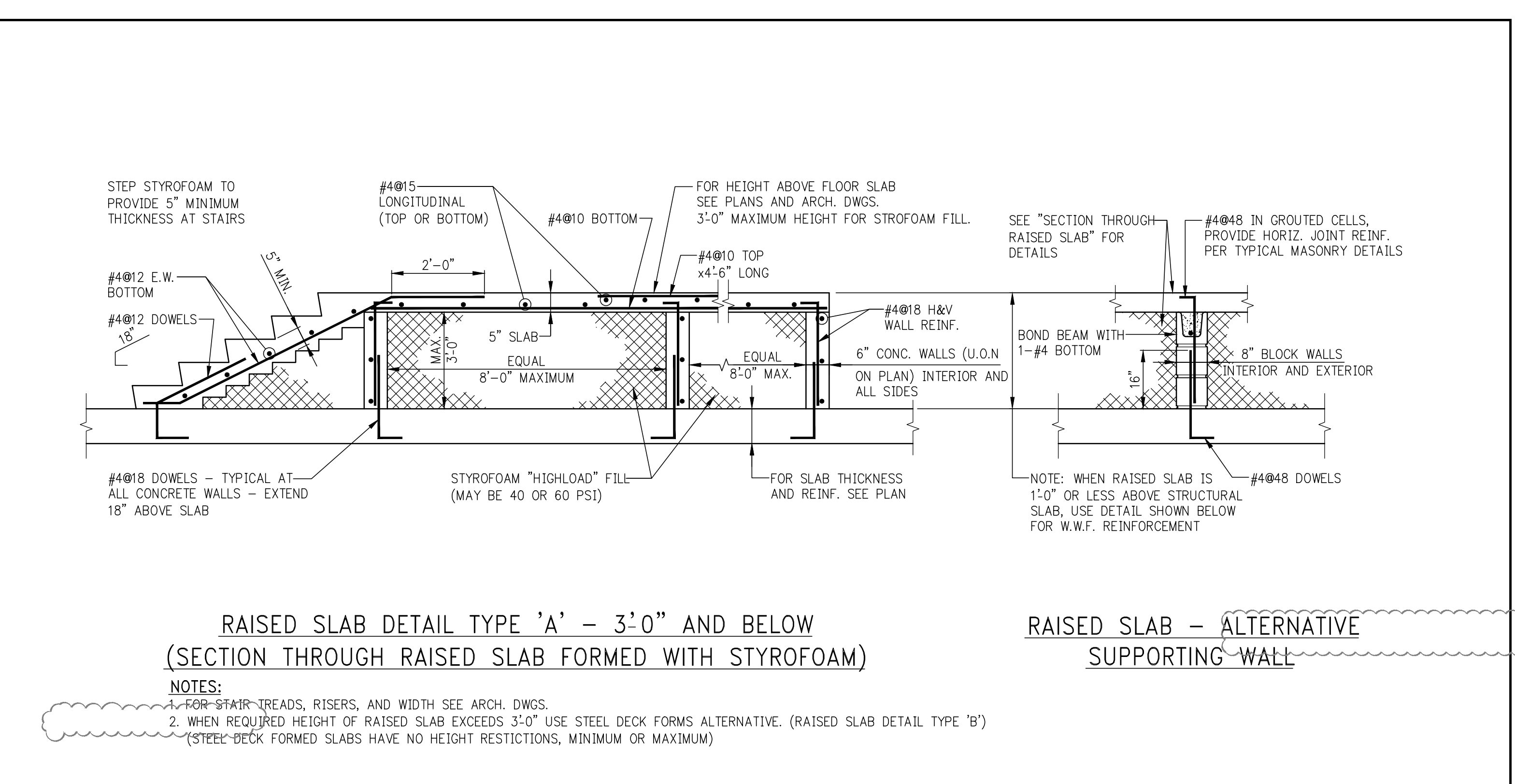
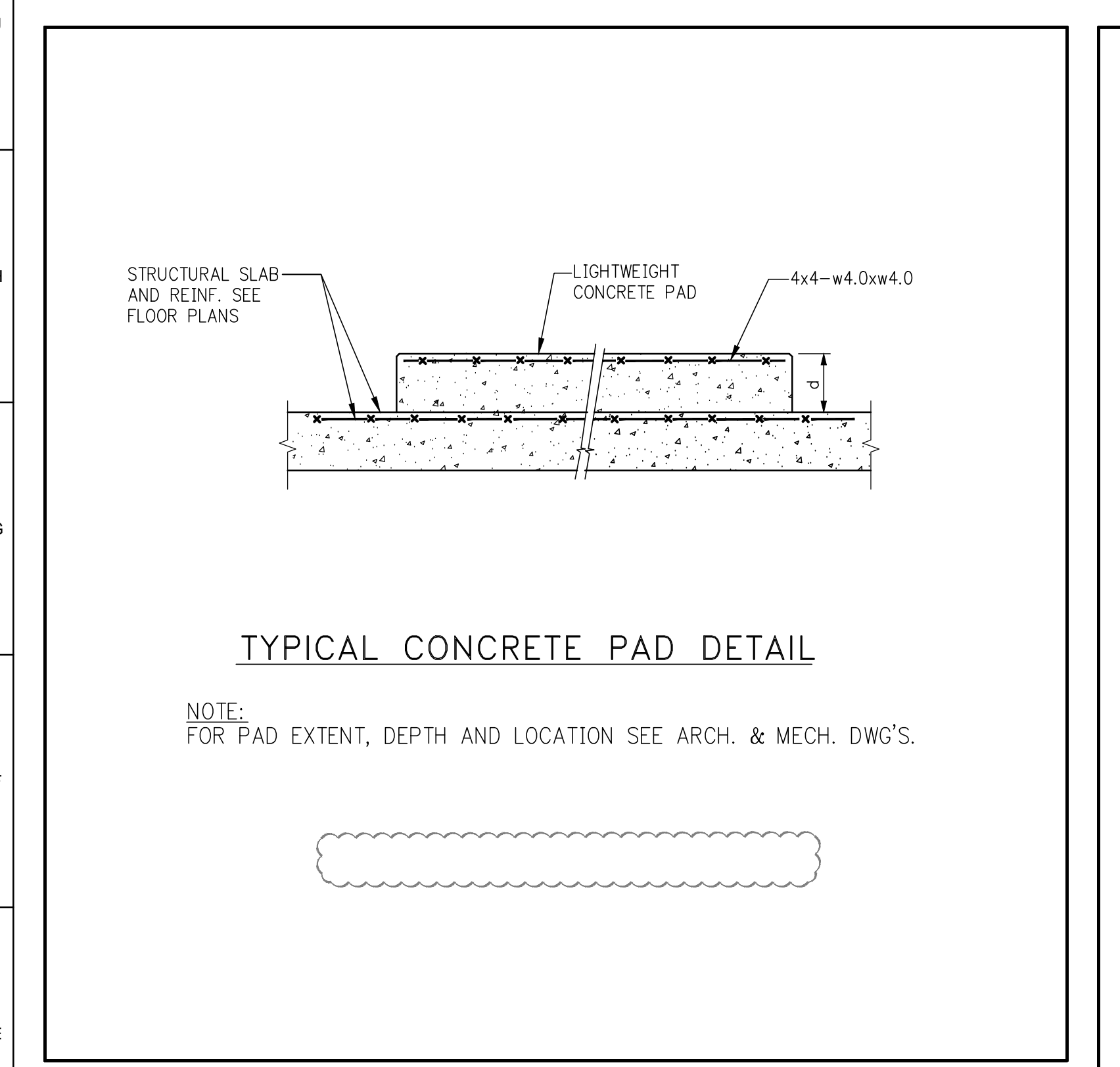
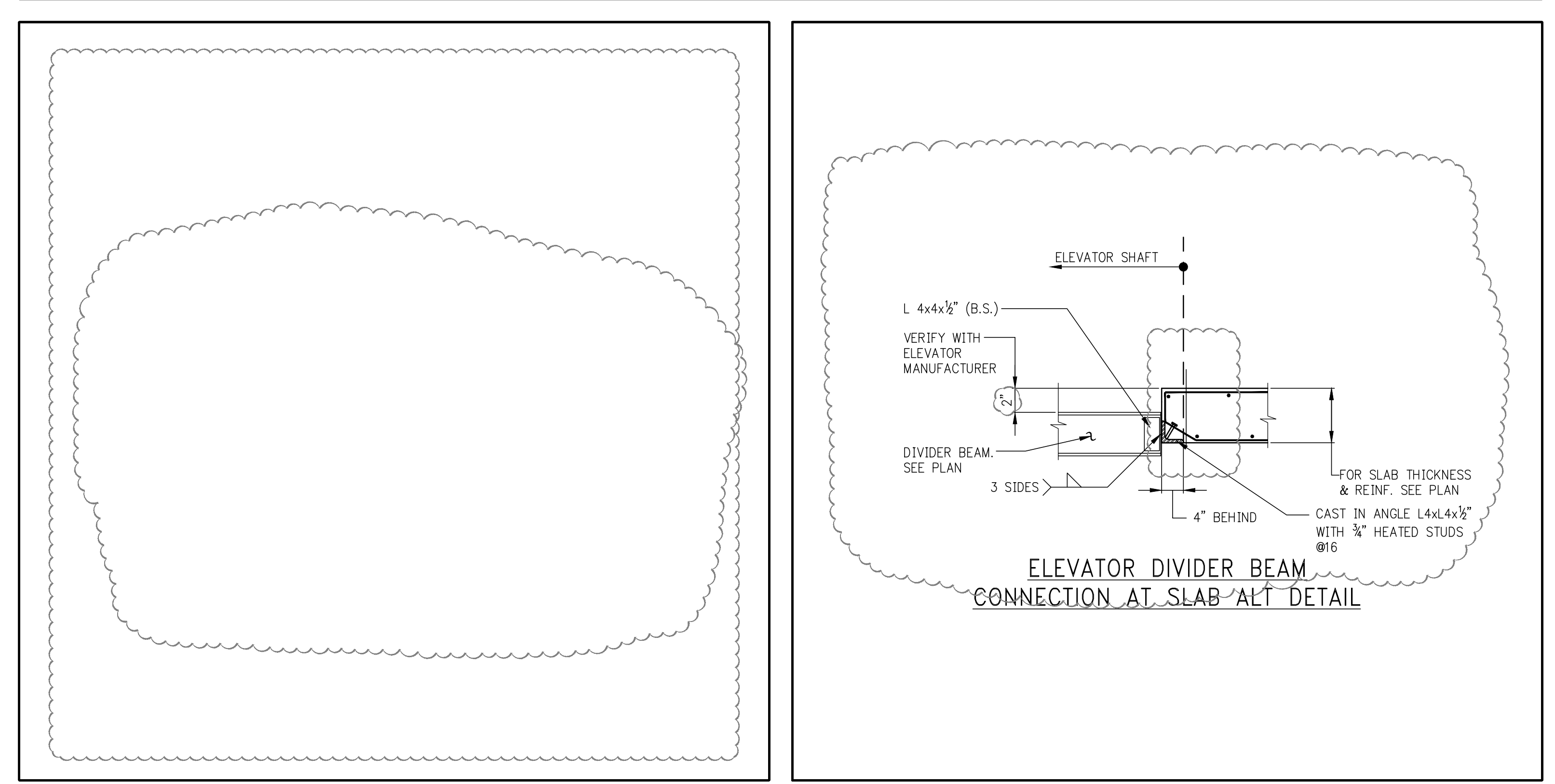
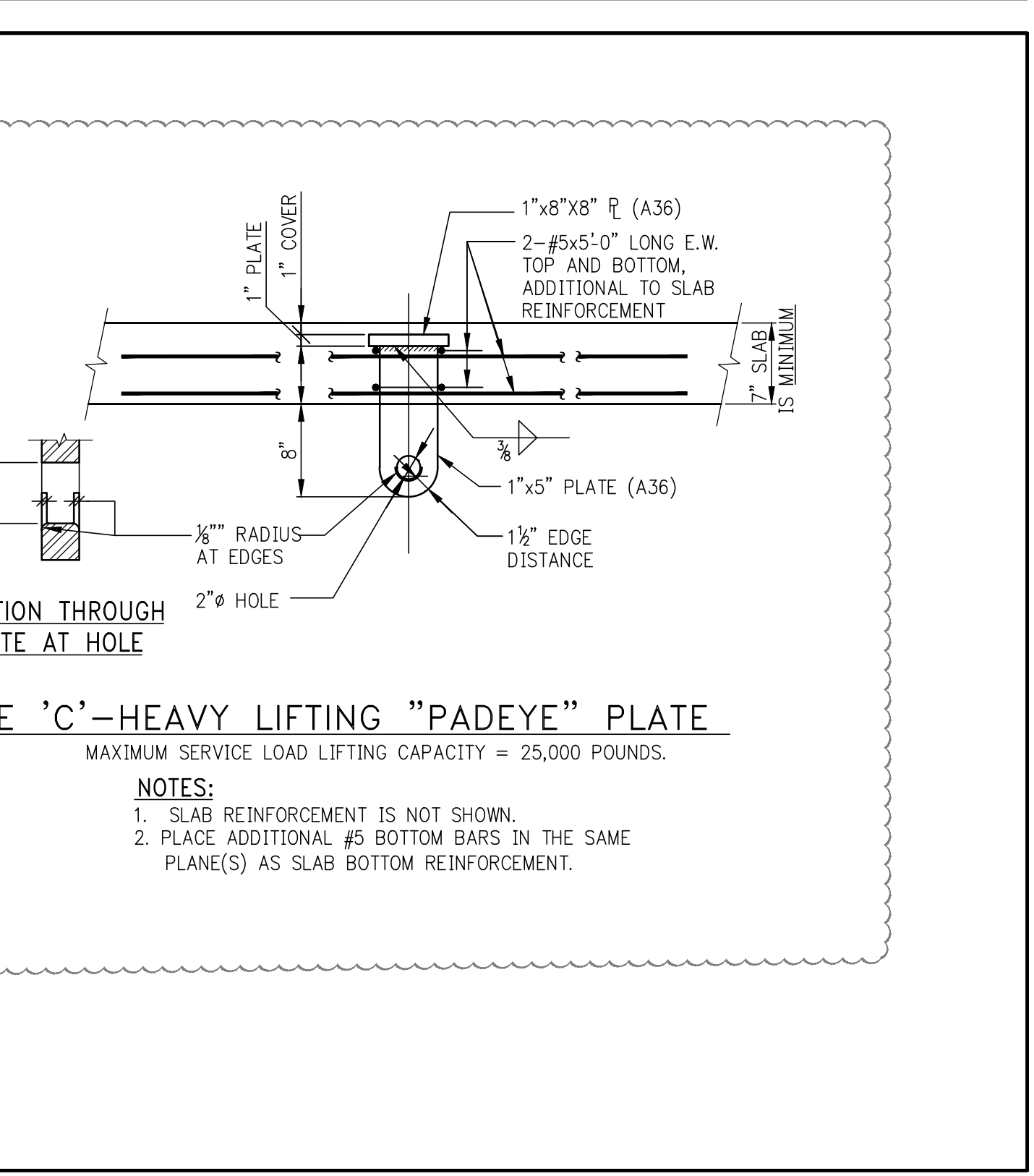
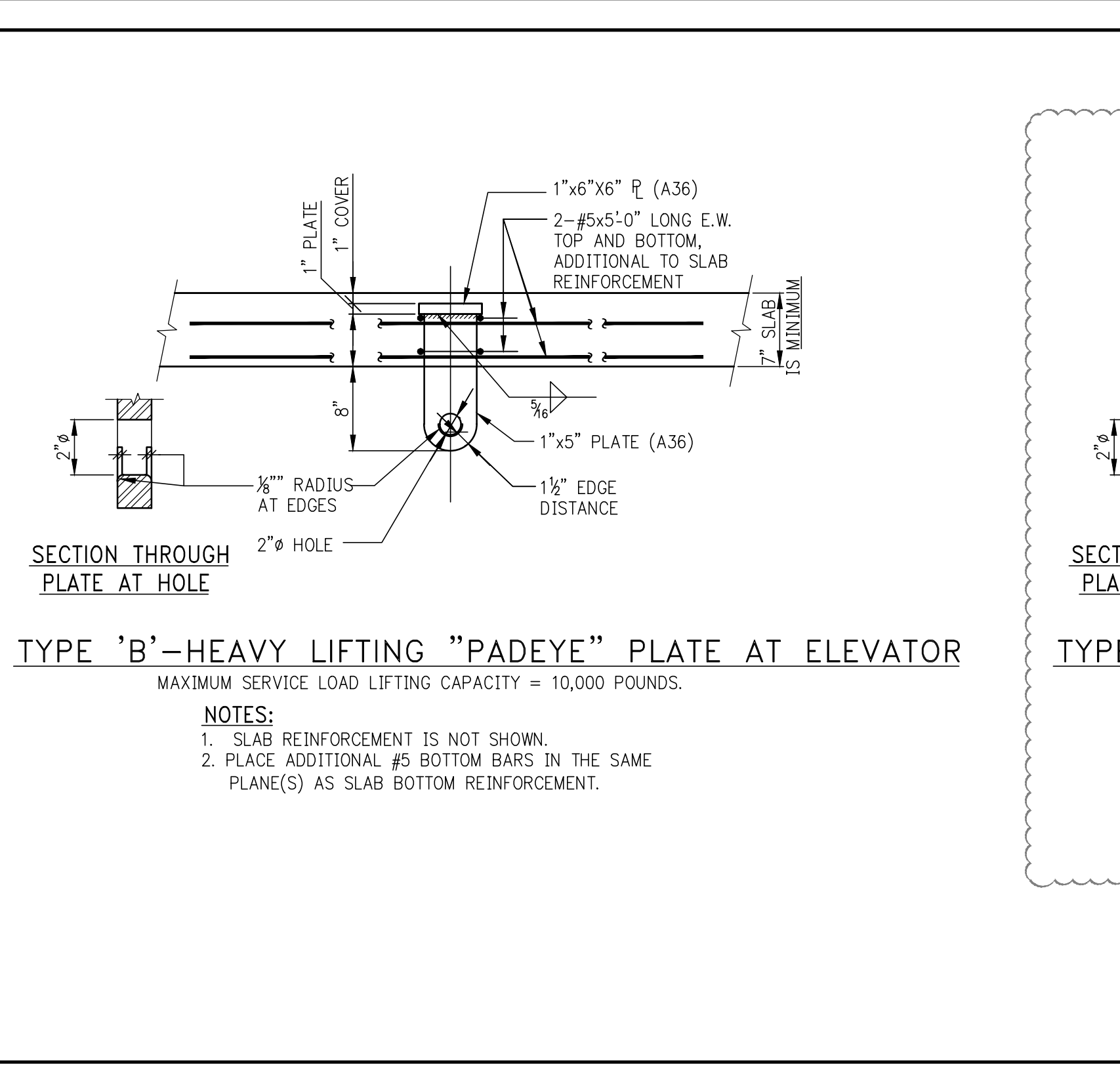
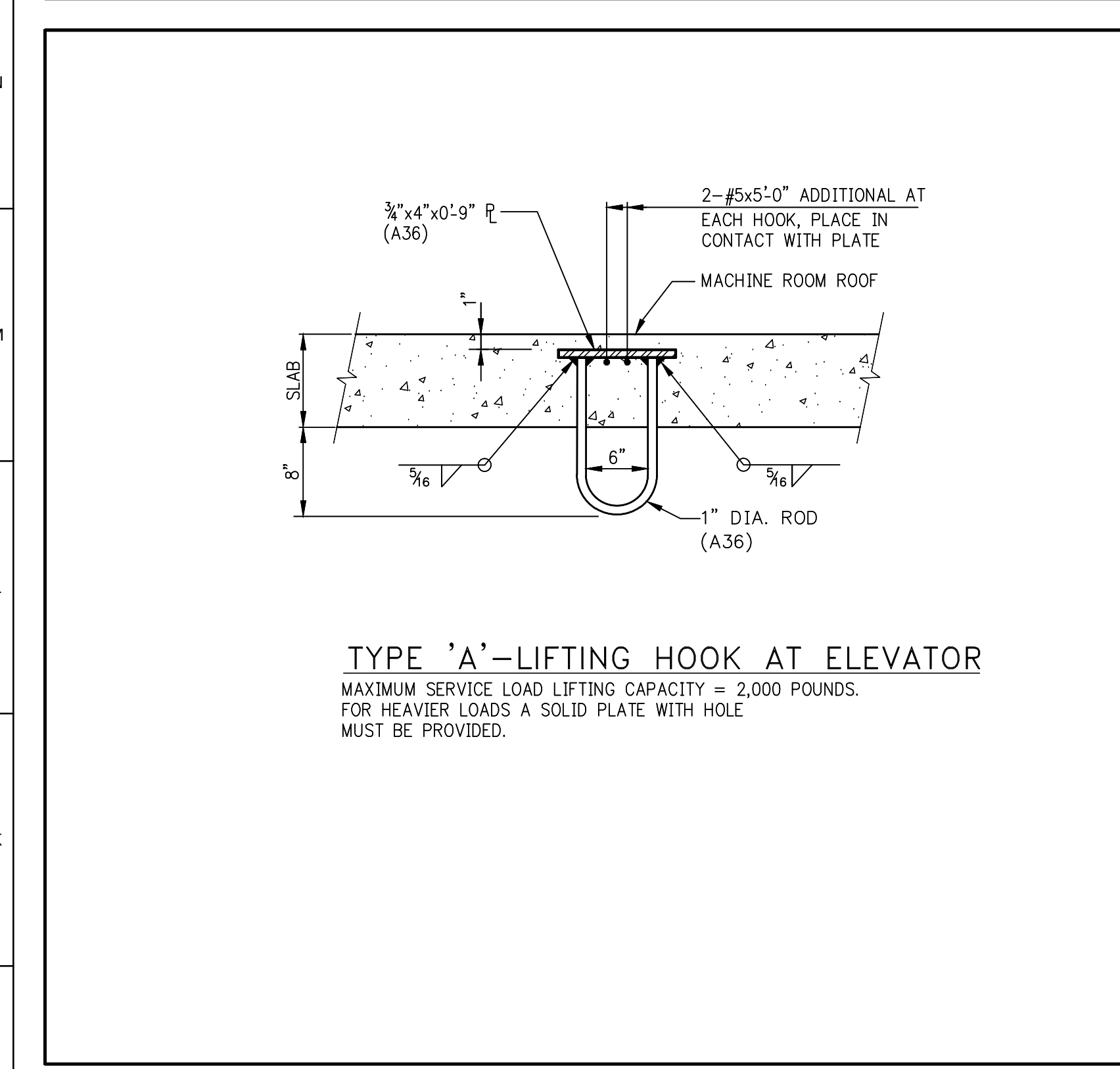
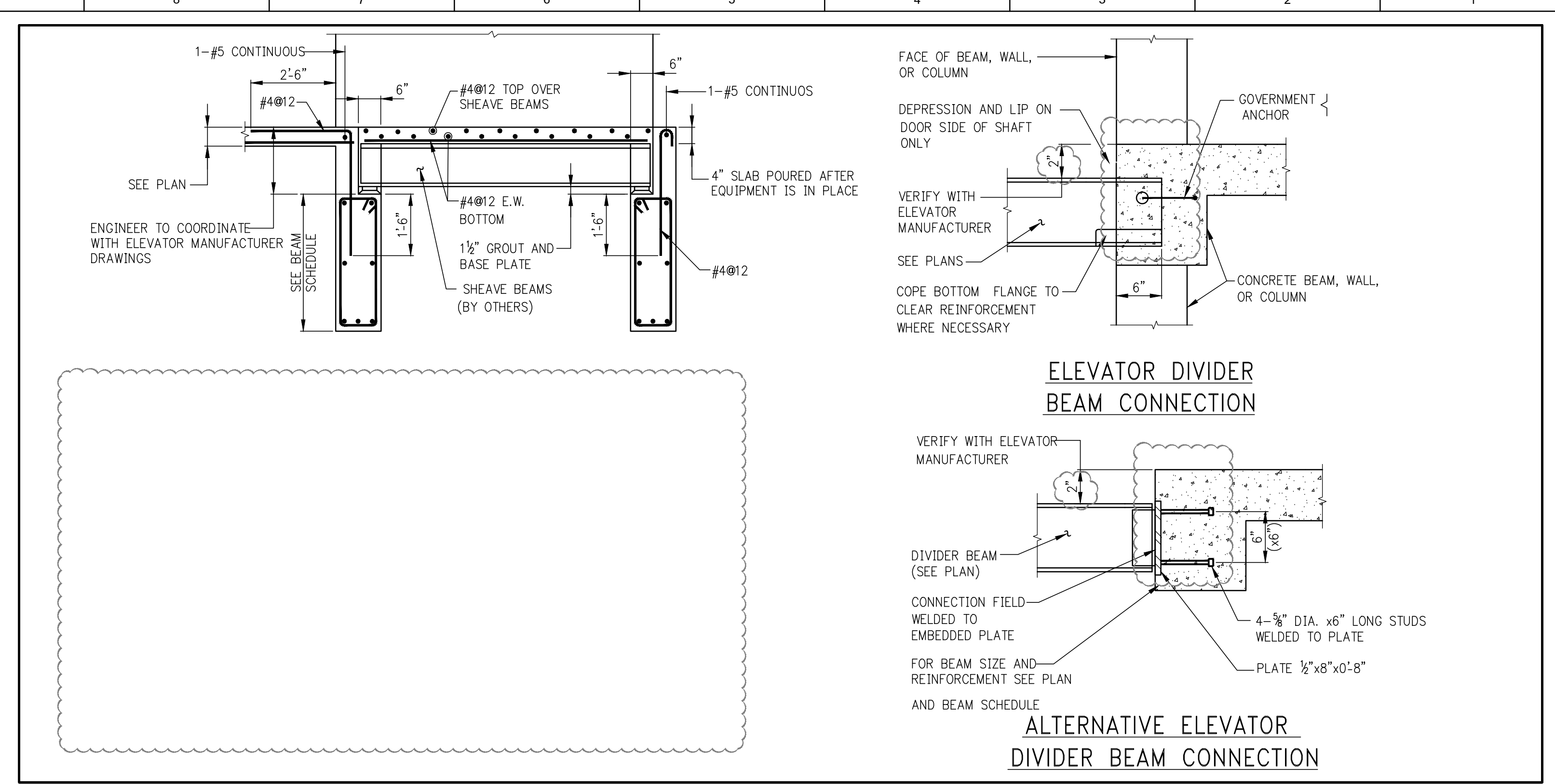
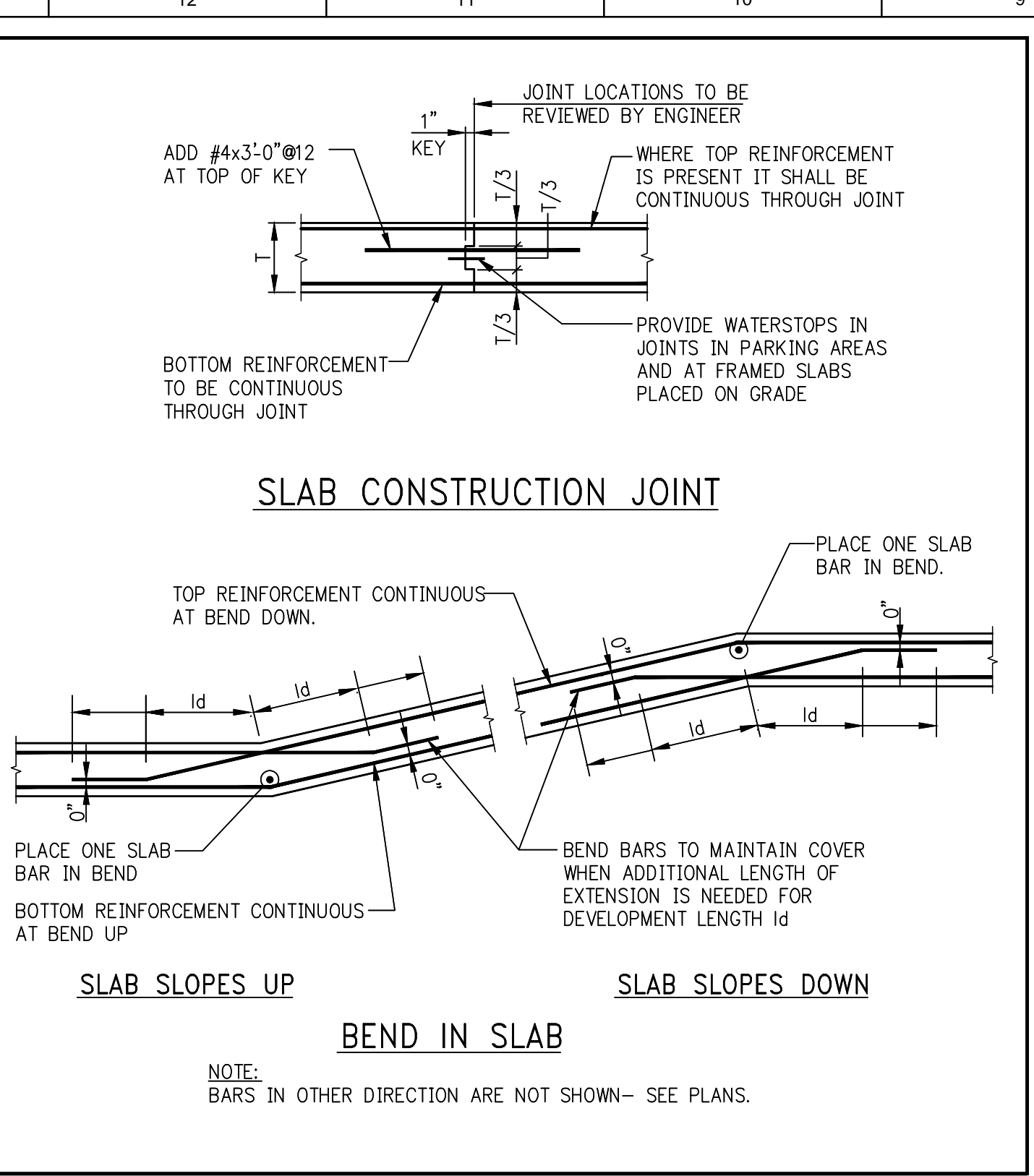
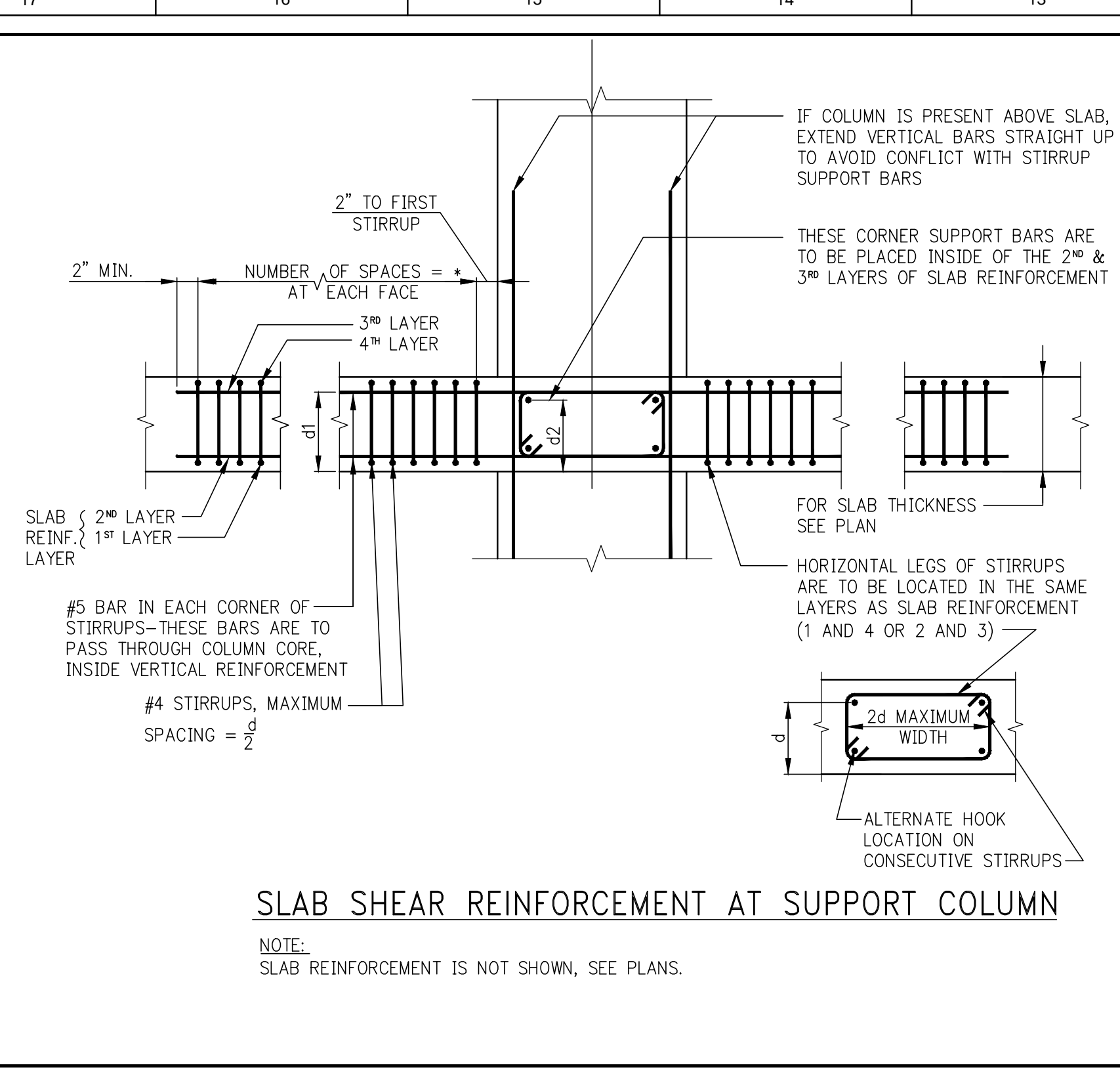
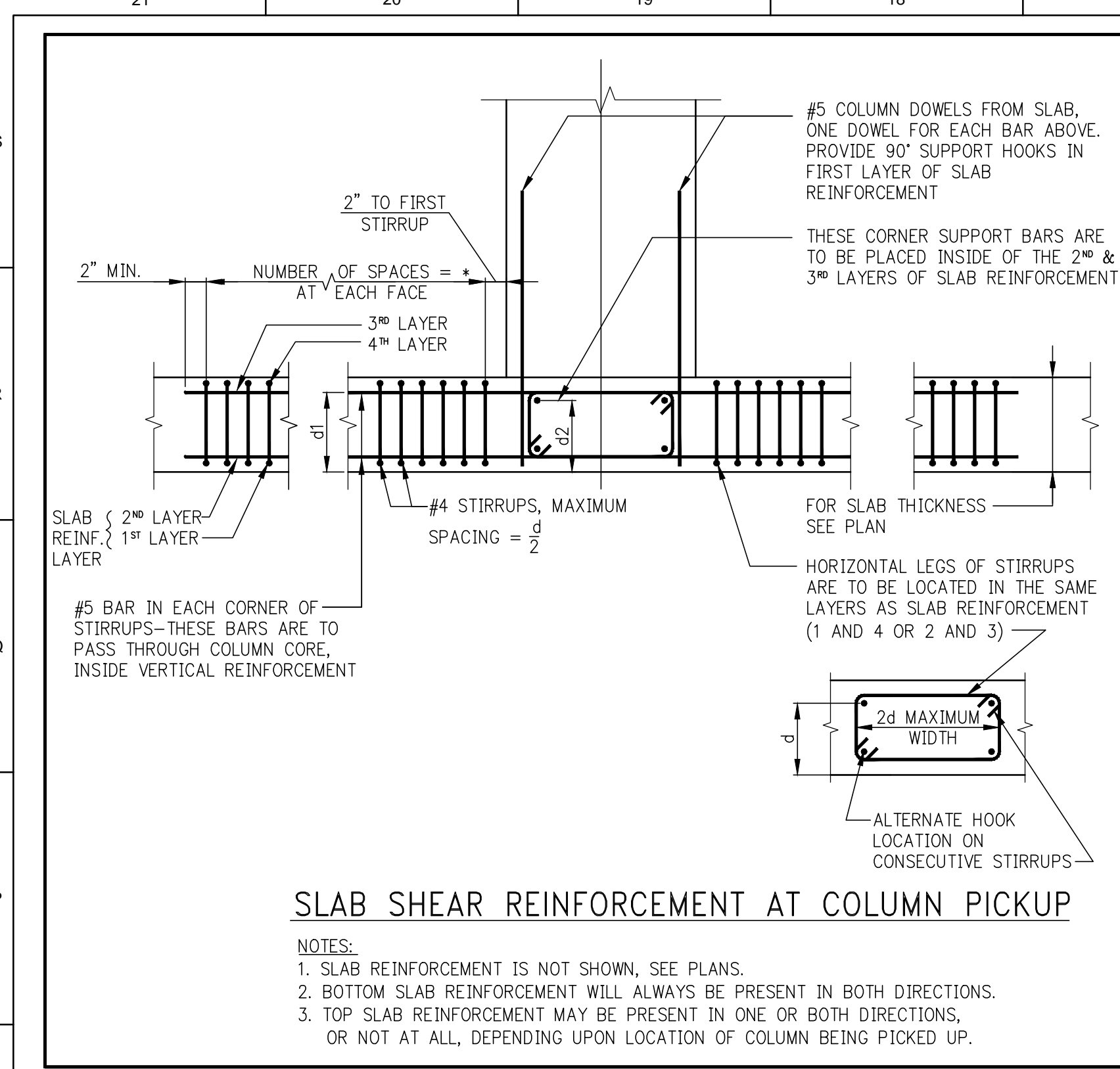
EXTERIOR WALL CONSULTANT:
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SHEET NOTES:

NO	ISSUE SET	REV	DATE
	SUPERSTRUCTURE EARLY BID SET		11-17-14
	DESIGN DEVELOPMENT SET		12-22-14
	NYCT SUBMISSION		12-23-14
	UPDATED DCB SET		01-20-15
	70% CD		04-27-15
	85% CD		07-02-15
	90% CD		11-24-15
	PAA #2		01-26-16



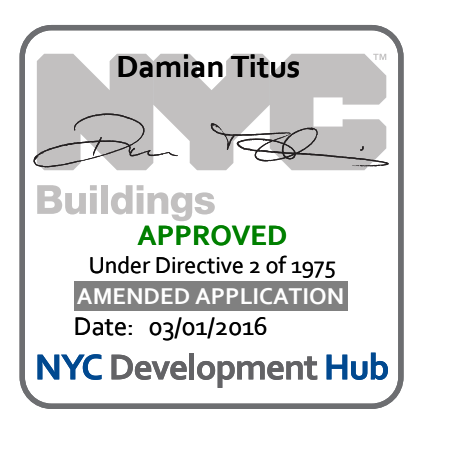
DATE OF PRINT:
2016-01-26

DRAWING SCALE:

PROJECT NUMBER:
2012068

TITLE:
TYPICAL SUPERSTRUCTURE CONCRETE DETAILS 3

DRAWING NO.:
S-962.01



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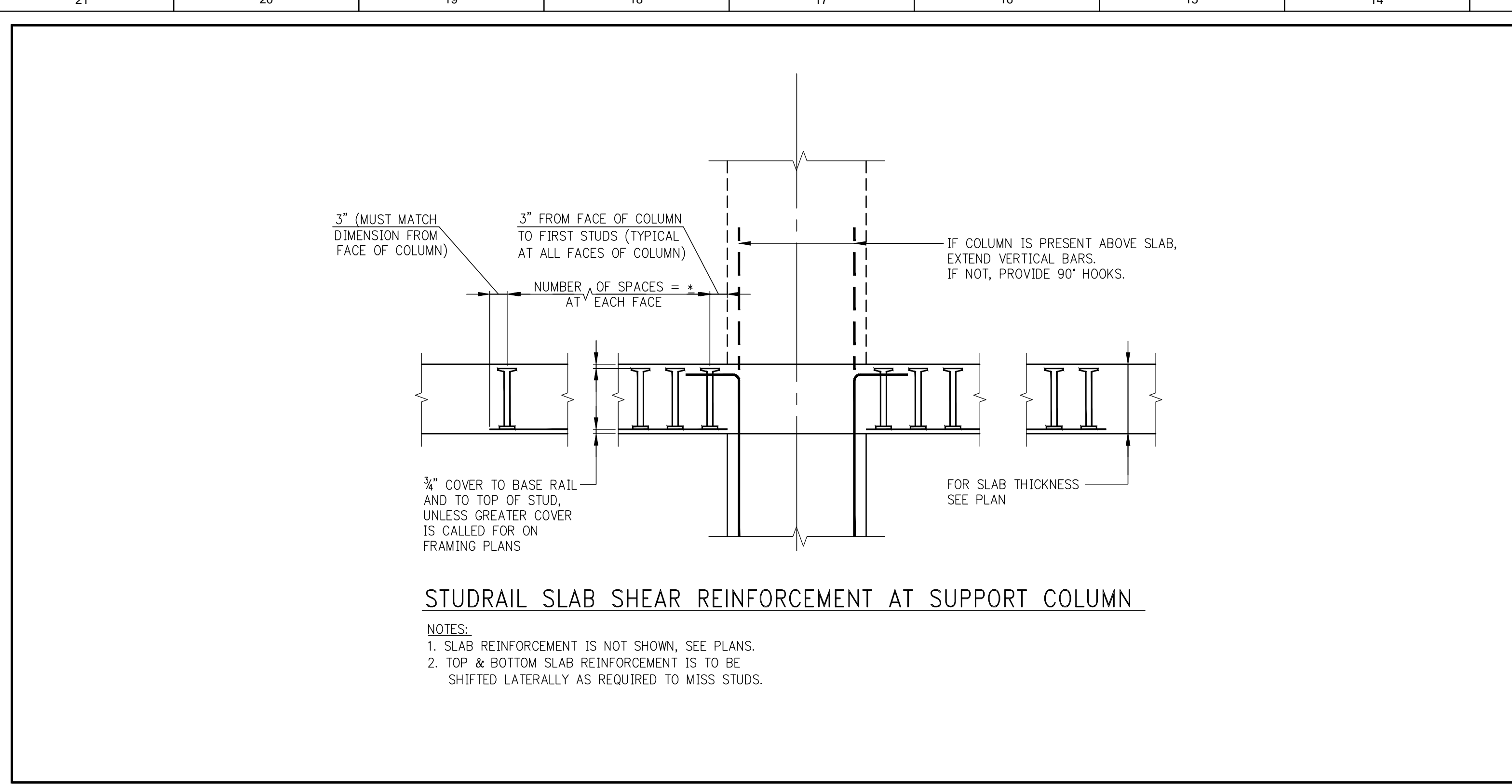
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SHEET NOTES:

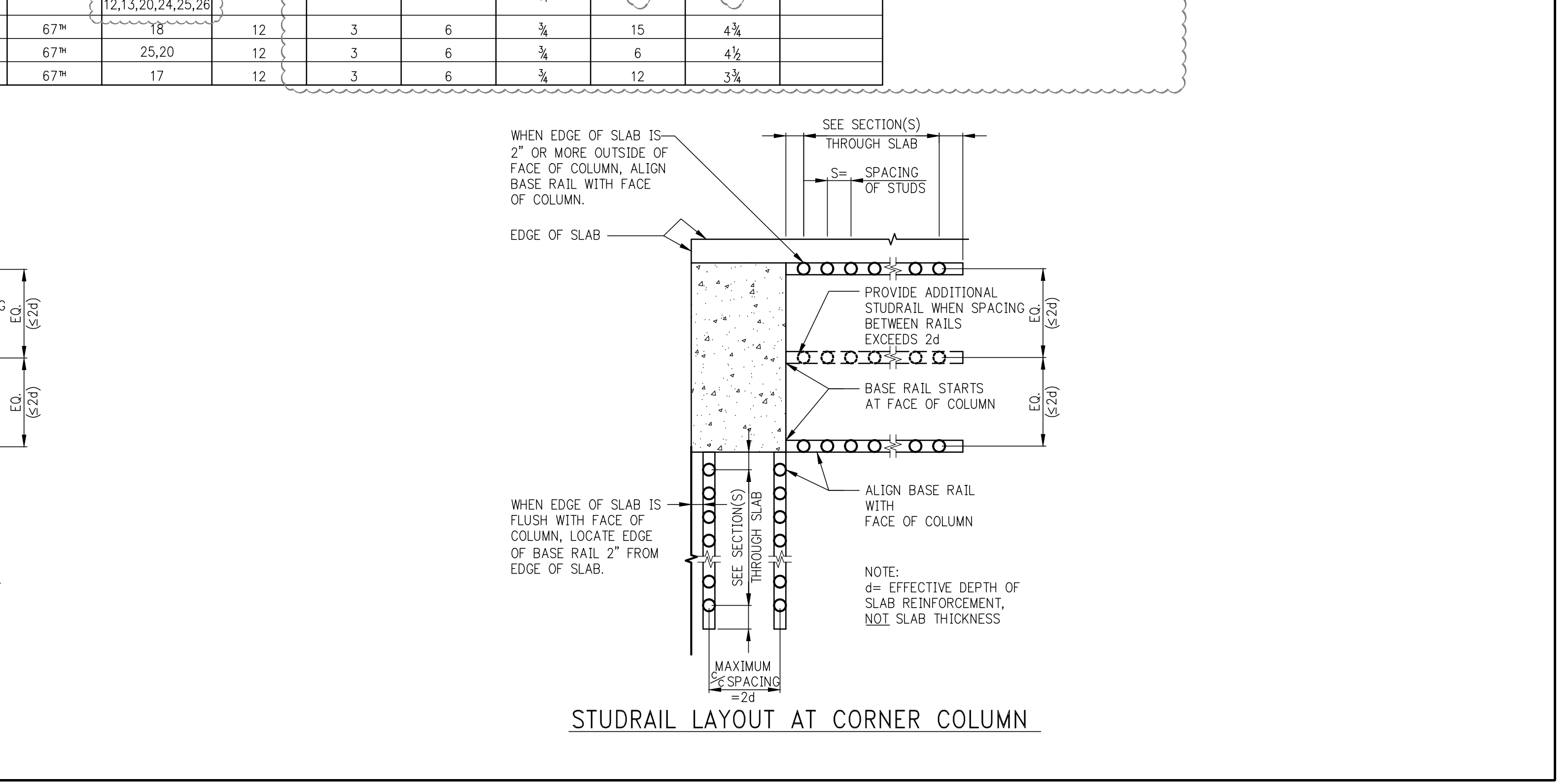
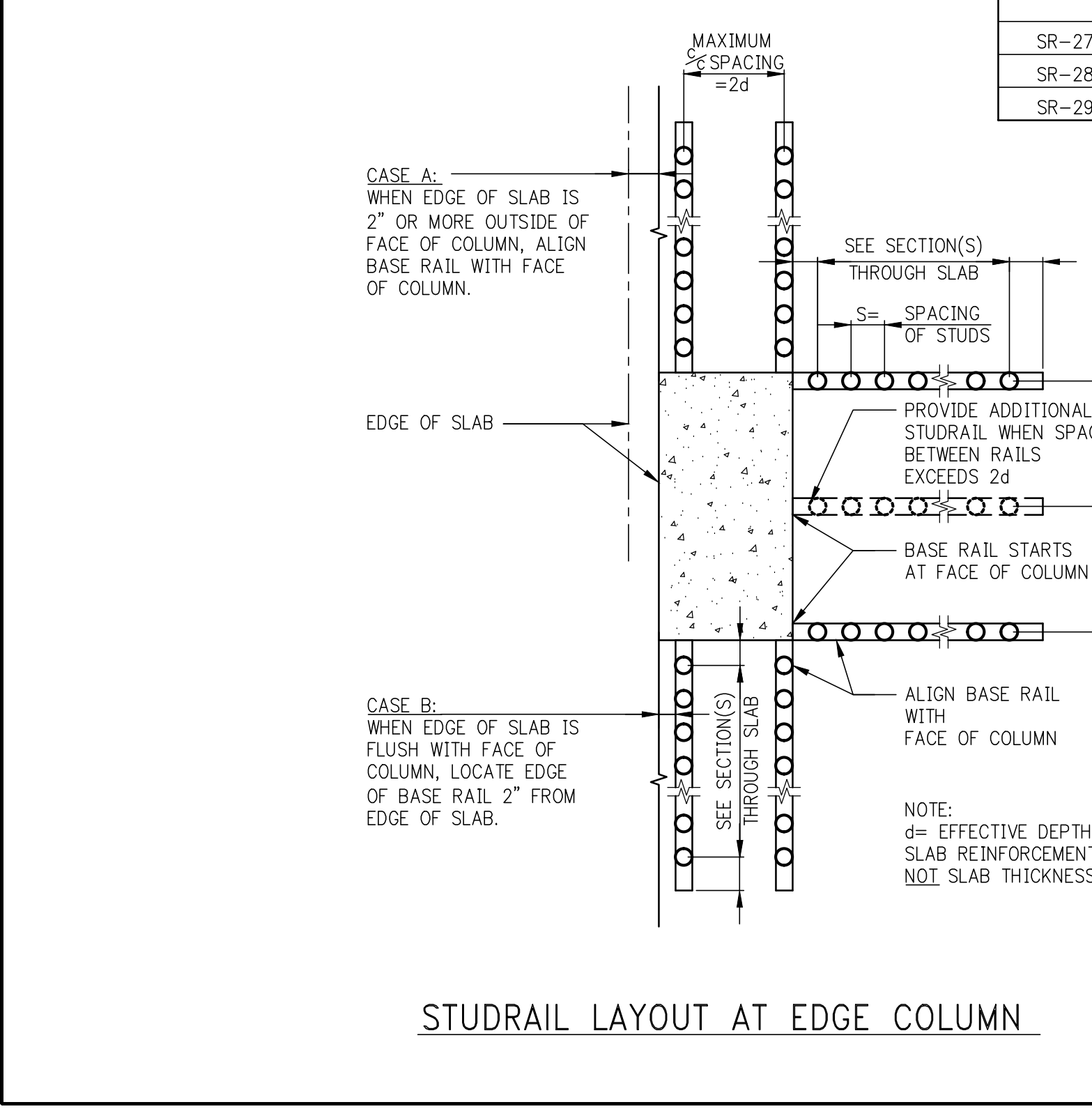


STUDRAIL SECTION

NOTES FOR STUDRAILS:

- SHEAR REINFORCEMENT AT THE SLAB-COLUMN CONNECTION SHALL BE STUDRAILS AS MANUFACTURED BY DECON (800-975-6990)
- THE SHEAR STUDS USED IN THE FABRICATION OF STUDRAILS SHALL BE LOW CARBON STEEL, C1015 TO C1018 IN ACCORDANCE WITH ASTM-A108. THE STRENGTH AND DUCTILITY REQUIREMENTS ARE:
YIELD STRENGTH: 51,000 psi MIN.
TENSILE STRENGTH: 65,000 psi MIN.
ELONGATION IN 2 IN.: 20% MIN.
REDUCTION OF AREA: 50% MIN.
- RAILS USED IN STUDRAILS SHALL BE LOW CARBON STEEL WITH THE FOLLOWING STRENGTH AND DUCTILITY REQUIREMENTS, IN ACCORDANCE WITH ASTM-A1044:
YIELD STRENGTH: 44,000 psi MIN.
TENSILE STRENGTH: 65,000 psi MIN.
ELONGATION IN 8 IN.: 20% MIN.
- THE STUDS SHALL BE WELDED IN ACCORDANCE WITH AWS D.1.1, INCLUDING THE PROVISIONS FOR PRODUCTION CONTROL AND FABRICATION AND VERIFICATION REQUIREMENTS.
- THE OVERALL HEIGHT OF THE STUDRAIL IS DEPENDENT ON THE SLAB THICKNESS AND THE REQUIRED CONCRETE COVER. THE AREA OF THE STUD HEAD SHALL BE 10 TIMES THE STEM AREA. THE BASE RAIL PROFILE SHALL BE AS SHOWN IN THE TABLE ON THIS DRAWING.
- MINIMUM CROSS-SECTIONAL AREA OF STUD RAIL TO BE 0.44 IN².

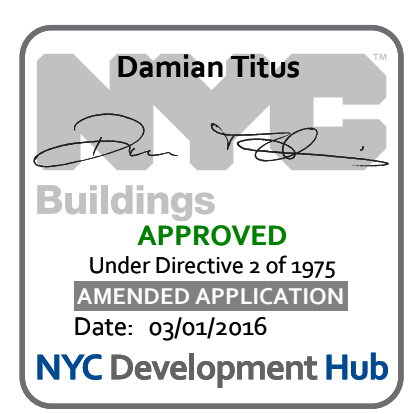
STUD RAIL MARK	FLOOR LEVEL	COLUMN NUMBER	SLAB THICKNESS OF 'h' (IN.)	NUMBER OF FACES REINFORCED	TOTAL NUMBER OF STUDRAILS	STUD DIAMETER (IN.)	NUMBER OF STUDS PER RAIL	STUD SPACING 'S' (IN.)	REMARKS
SR-1	30"	2,3A,3B,4,10,11,12	12	3	9	3/4	6	5 1/2	
SR-2	30"	20,24	12	3	9	3/4	5	5 1/2	
SR-3	48"-54"	11	10	3	9	3/4	5	4 1/2	
SR-4	48"-57"	20,24	10	3	9	3/4	7	4 1/2	
SR-5	55"-57"	2,3A,3B,4,10,11,12	10	3	9	3/4	5	4 1/2	
SR-6	56"	18,19	10/15	3	6	3/4	7	4 1/2	
SR-7	58"-59"	2,3A,3B,4,10,11,12	10	3	6	3/4	6	4 1/2	
SR-8	58"-59"	20,24	10	3	9	3/4	7	4 1/2	
SR-9	58"-59"	5,13	10	2	4	3/4	5	4 1/2	
SR-10	58"-59"	1,9	10	2	4	3/4	4	4 1/2	
SR-11	60"-61"	2,3A,3B,4,10,11,12	10	3	6	3/4	6	4 1/2	
SR-12	60"-61"	20,24	10	3	6	3/4	6	4 1/2	
SR-13	60"-61"	5,13	10	2	4	3/4	5	4 1/2	
SR-14	60"-61"	1,9	10	2	4	3/4	6	4 1/2	
SR-15	64"	1,5,9,13	10	2	4	3/4	10	4 1/2	
SR-16	64"	2,3A,3B,4,10,11,12	10	3	6	3/4	6	4 1/2	
SR-17	64"	20,24,26,28	10	3	6	3/4	11	4 1/2	
SR-18	67"	1,13	12	2	4	3/4	11	4 1/2	
SR-19	67"	24,26	12	3	6	3/4	6	4 1/2	
SR-20	67"	11,12	12	3	6	3/4	5	4 1/2	
SR-21	66"	12	10	2	6	3/4	6	3 1/2	
SR-22	66"	21,17,26	10	3	9	3/4	5	3 1/2	
SR-23	66"	24,25	10	3	9	3/4	4	3 1/2	
SR-24	66"	11	10	3	9	3/4	7	3 1/2	
SR-25	66"	19	10	3	6	3/4	10	4 1/2	
SR-26	65"	7, 2, 3A, 3B, 4, 5, 9, 11, 12, 13, 20, 24, 25, 26	12	3	6	3/4	10	4 1/2	
SR-27	67"	18	12	3	6	3/4	15	4 1/2	
SR-28	67"	25, 20	12	3	6	3/4	6	4 1/2	
SR-29	67"	17	12	3	6	3/4	12	3 1/2	



NO.	ISSUE SET	REV DATE
1	SUPERSTRUCTURE EARLY BID SET	11-17-14
2	DESIGN DEVELOPMENT SET	12-22-14
3	NYCT SUBMISSION	12-23-14
4	UPDATED DCB SET	02-20-15
5	70% CD	04-27-15
6	85% CD	07-02-15
7	85% CD	11-24-15
8	PAA #2	01-26-16

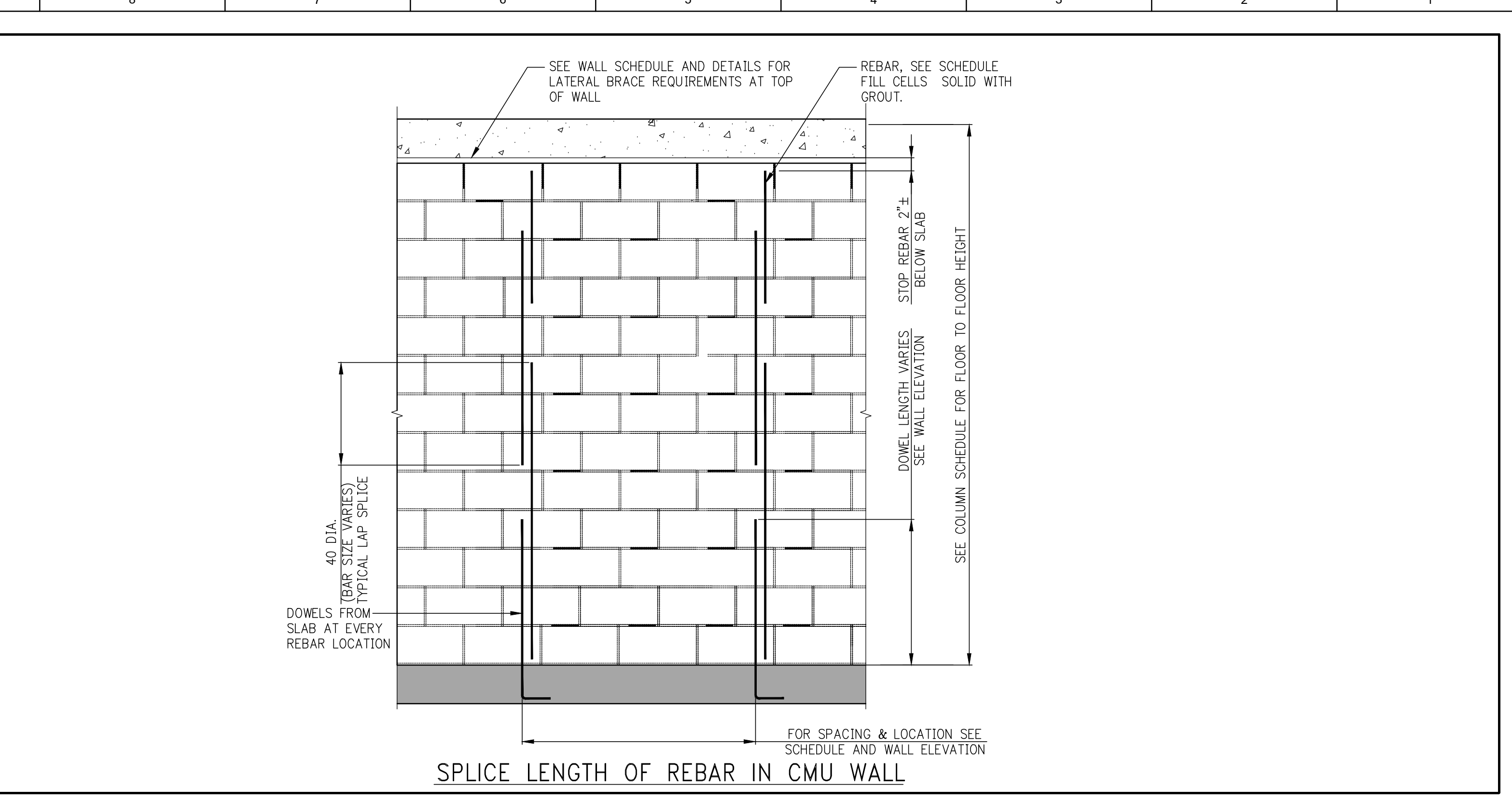
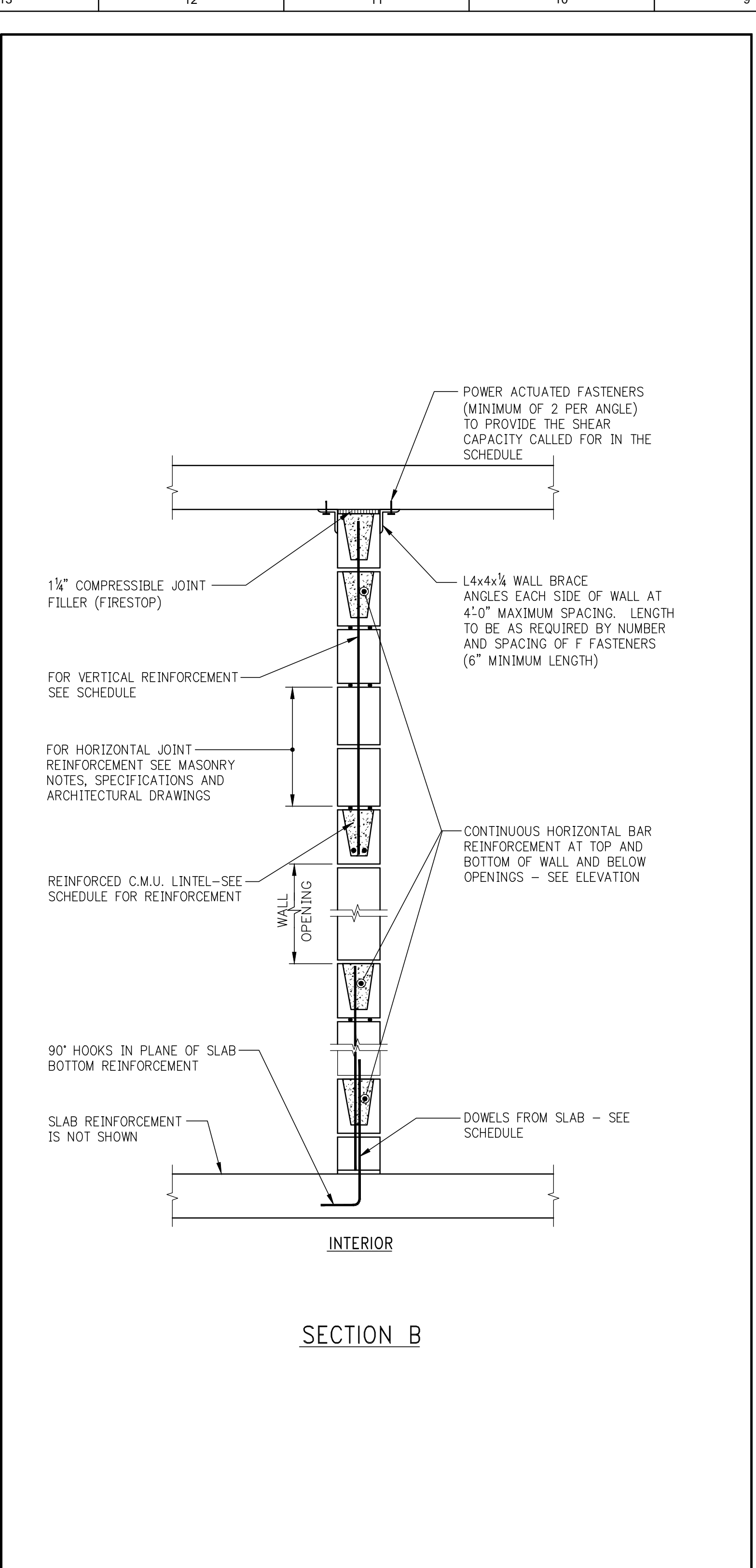
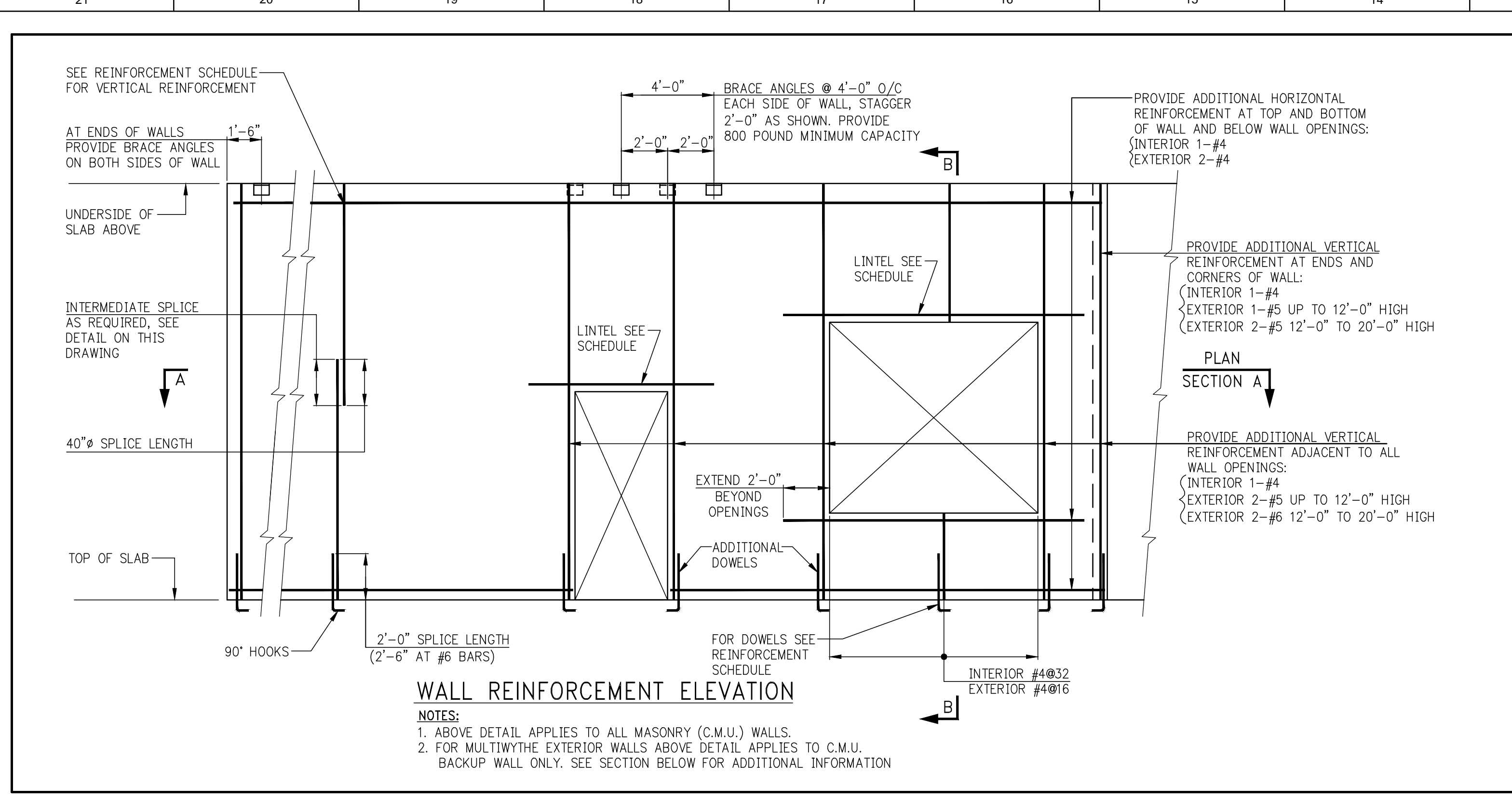


DATE OF PRINT: 2016-01-26
DRAWING SCALE:
PROJECT NUMBER: 2012068



TITLE: TYPICAL SUPERSTRUCTURE CONCRETE DETAILS 4

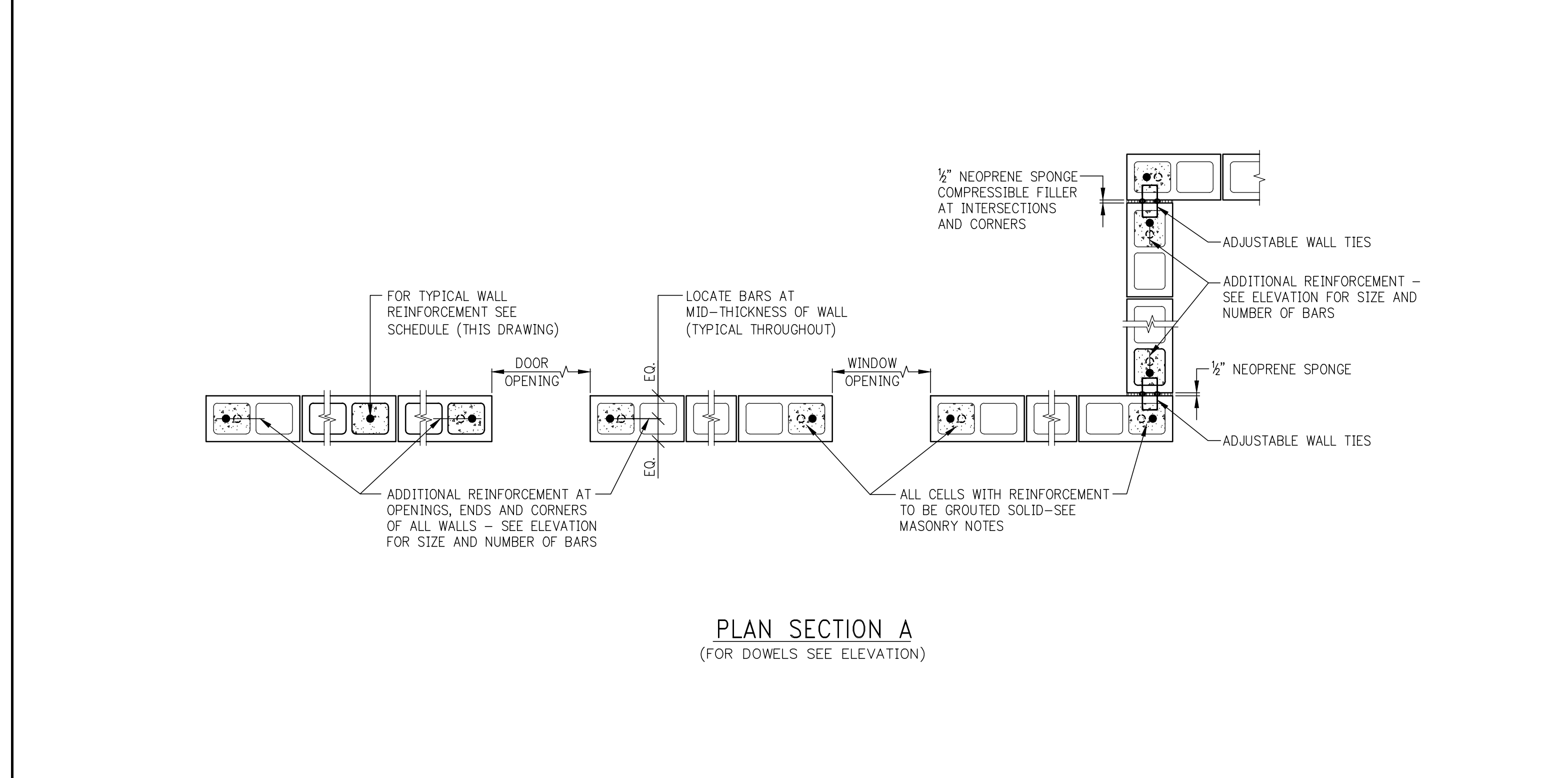
DRAWING NO. S-963.01



TYPE OF LOADING	LINTEL SECTION NOMINAL SIZE (IN.)	REQUIRED REINFORCEMENT									
		CLEAR SPAN									
		3'-4"	4'-0"	4'-8"	5'-4"	6'-0"	6'-8"	7'-4"	8'-0"	10'-0"	
WALL LOADS	6x8	1-#4	1-#4	1-#4	2-#4	2-#5	2-#4	2-#4	2-#5	2-#5	
FLOOR & ROOF LOADS	6x16	-	-	-	2-#4	2-#4	2-#4	2-#4	2-#5	2-#5	2-#6
WALL LOADS	8x8	1-#4	2-#4	2-#4	2-#4	2-#4	2-#5	2-#5	-	-	-
FLOOR & ROOF LOADS	8x16	-	-	-	-	-	-	-	2-#5	2-#5	2-#6
		8x8	2-#4	2-#4	2-#4	2-#4	2-#4	2-#4	2-#5	2-#5	2-#6
		8x16	2-#4	2-#4	2-#4	2-#4	2-#4	2-#4	2-#5	2-#5	2-#6

(*) INCLUDES WEIGHT OF LINTEL

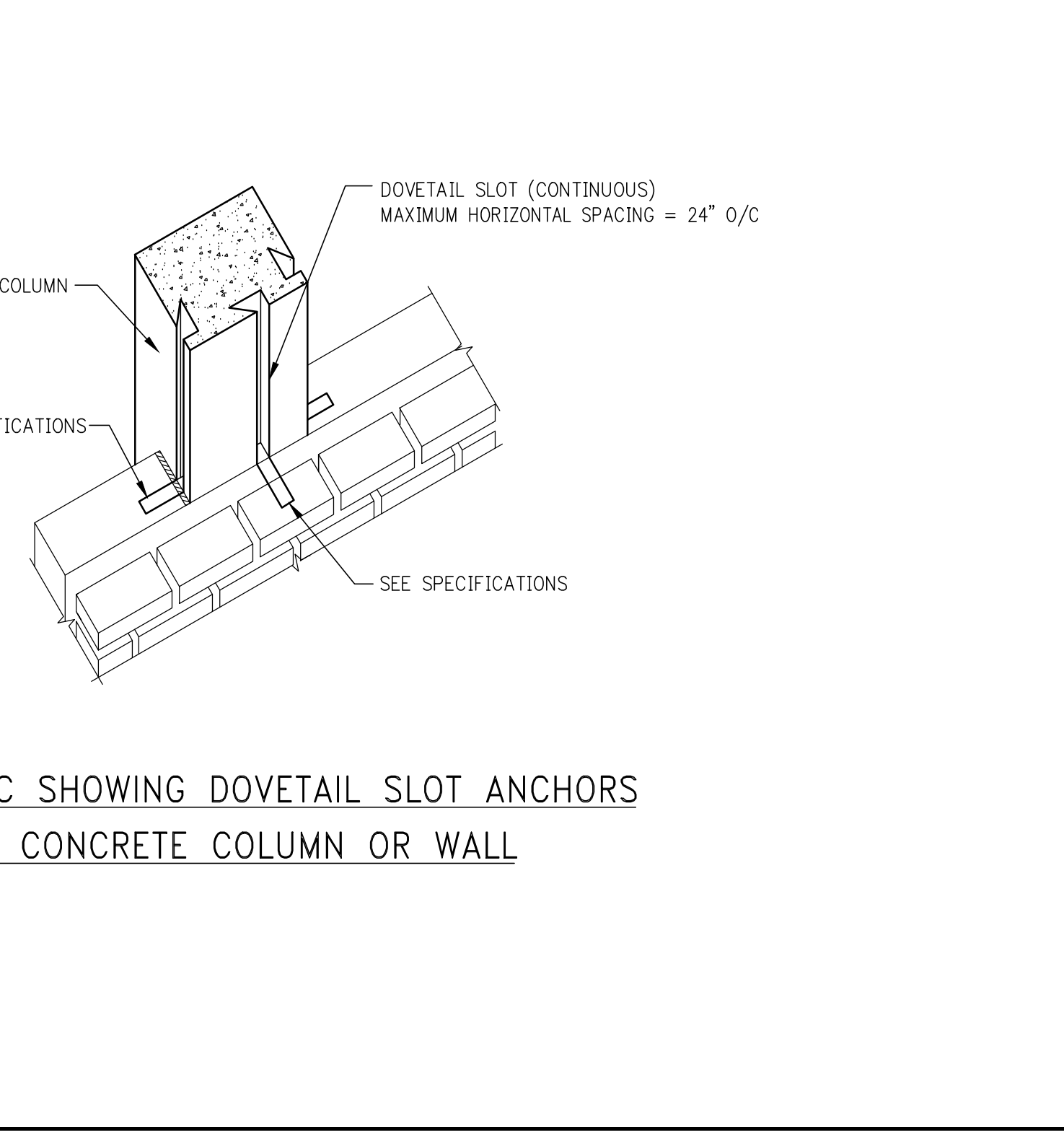
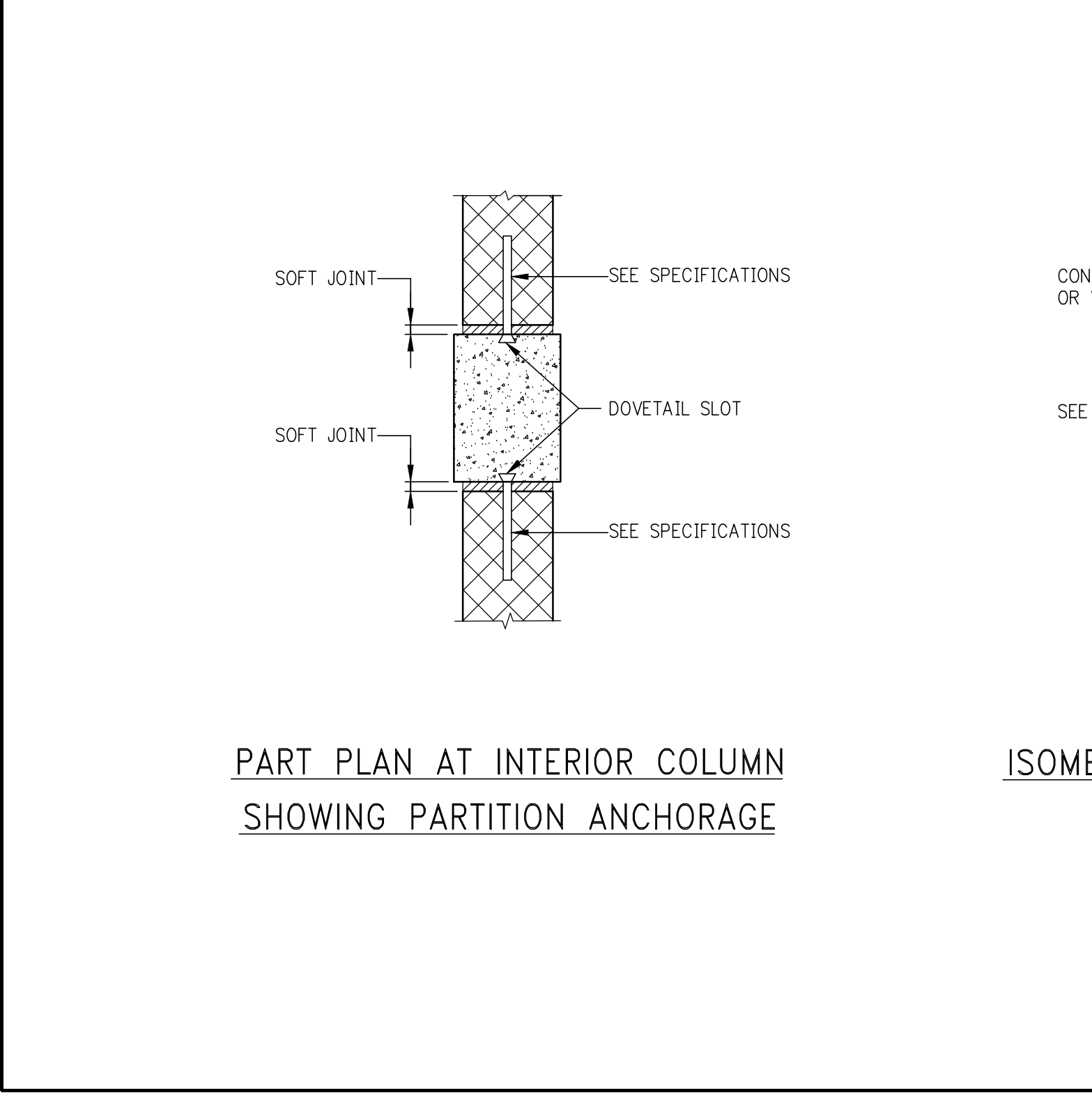
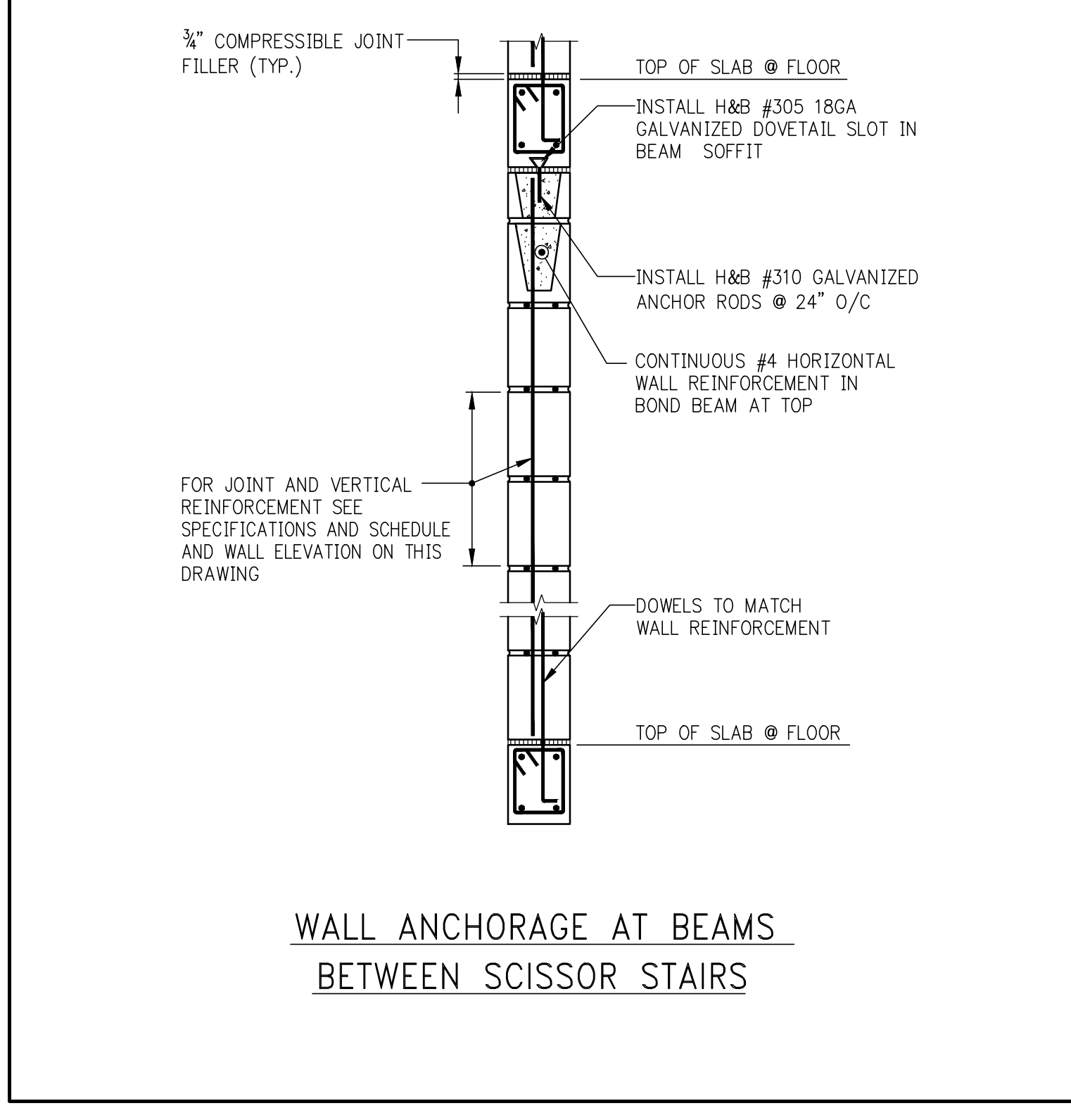
NOTES:
1. WALL LOADS ASSUMED 300lbs. PER LINEAR FOOT.
2. FLOOR & ROOF LOADS INCLUDING WALL LOADS ASSUMED 1000lbs. PER LINEAR FOOT.
3. 8" LINTELS ASSUMED TO WEIGH 50lb./FT.
4. 16" LINTELS ASSUMED TO WEIGH 100lb./FT.
5. IF ACTUAL LOADS EXCEED THOSE ASSUMED, CONTRACTOR IS TO OBTAIN DIRECTION FROM THE ENGINEER.
6. FOR LINTELS OVER 10'-0" LONG, CONTRACTOR IS TO OBTAIN DIRECTION FROM THE ENGINEER.



LOOSE LINTEL SCHEDULE
(ANGLES OR W-SHAPE PLUS PLATE)

MASONRY OPENING	ANGLE SIZE PER EACH 4" WIDTH OF MASONRY (OR W + R)	ANGLE SIZE FOR 6" WIDTH OF MASONRY
UP TO 5'-0"	1 3/8 x 3/8 x 3/8	1 6 x 4 x 3/8
5'-1" TO 8'-0"	1 6 x 3/8 x 3/8	1 6 x 4 x 1/2
8'-1" TO 10'-8"	1 6 x 3/8 x 3/8	-
10'-9" TO 14'-0"	1 8x15 x BOTTOM W 3/8 x 7 (WELD PLATE TO BOTTOM FLANGE)	-

NOTES:
1. ANGLE LENGTH = MASONRY OPENING PLUS 1'-0" (6" BEARING AT EACH END).
2. ANGLE LONG LEG IS VERTICAL.
3. W + R TO BE USED AT 6" WIDE WALL ONLY.
4. PROVIDE LATERAL BRACING ON LINTELS FOR MASONRY OPENINGS GREATER THAN 4'-0", AS REQUIRED BY CODE.
5. JOINTS SHALL NOT BE LOCATED OVER THE MASONRY OPENING.



C.M.U. WALL REINFORCEMENT SCHEDULE
(AND LATERAL BRACING LOAD AT TOP)

LOCATION AND HEIGHT OF WALL	MINIMUM BLOCK THICKNESS	VERTICAL REINFORCEMENT	DOWELS FROM SLAB	LATERAL BRACING FORCE (TOP) #/FOOT	REMARKS
INTERIOR UP TO 10'-0"	4"	#4@8'-0"	#4@8'-0"		
INTERIOR 10'-1" TO 16'-0"	6"	#4@8	#4@8		
INTERIOR 16'-1" TO 20'-0"	8"	#4@8	#4@8		
INTERIOR 20'-1" TO 25'-0"	8"	#4@24	#4@24		
EXTERIOR UP TO 8'-0"	4"	#4@32	#4@16		
EXTERIOR 8'-1" TO 10'-0"	6"	#4@32	#4@16		
EXTERIOR 10'-1" TO 12'-0"	8"	#4@32	#4@16		
EXTERIOR 12'-1" TO 16'-0"	8"	#4@16	#5@16		
EXTERIOR 16'-1" TO 20'-0"	12"	#4@16	#5@16		
EXTERIOR 20'-1" TO 25'-0"	12"	#5@8	#5@8		
EXTERIOR CANTILEVER (PARAPET, ETC.) UP TO 8'-0"	8"	#4@16	#5@16		

NOTE:
1. REINFORCEMENT SHOWN TO BE USED U.O.M. ON PLAN.



NO. ISSUE SET

SET	REV	DATE
SUPERSTRUCTURE EARLY BID	11-17-14	
SET		
DESIGN DEVELOPMENT SET	12-22-14	
NYCT SUBMISSION	12-23-14	
UPDATED OOB SET	01-20-15	
70% CD	04-27-15	
85% CD	07-02-15	
85% CD	11-24-15	
PAA #2	01-26-16	



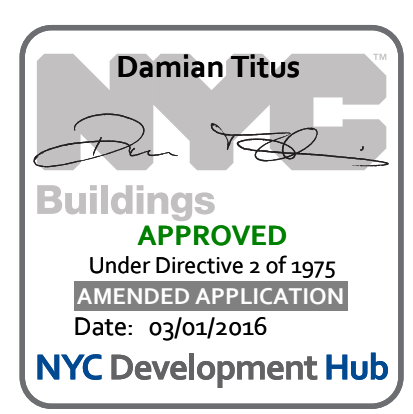
DATE OF PRINT
2016-01-26

DRAWING SCALE

PROJECT NUMBER
2012066

TITLE
TYPICAL MASONRY DETAILS

DRAWING NO.



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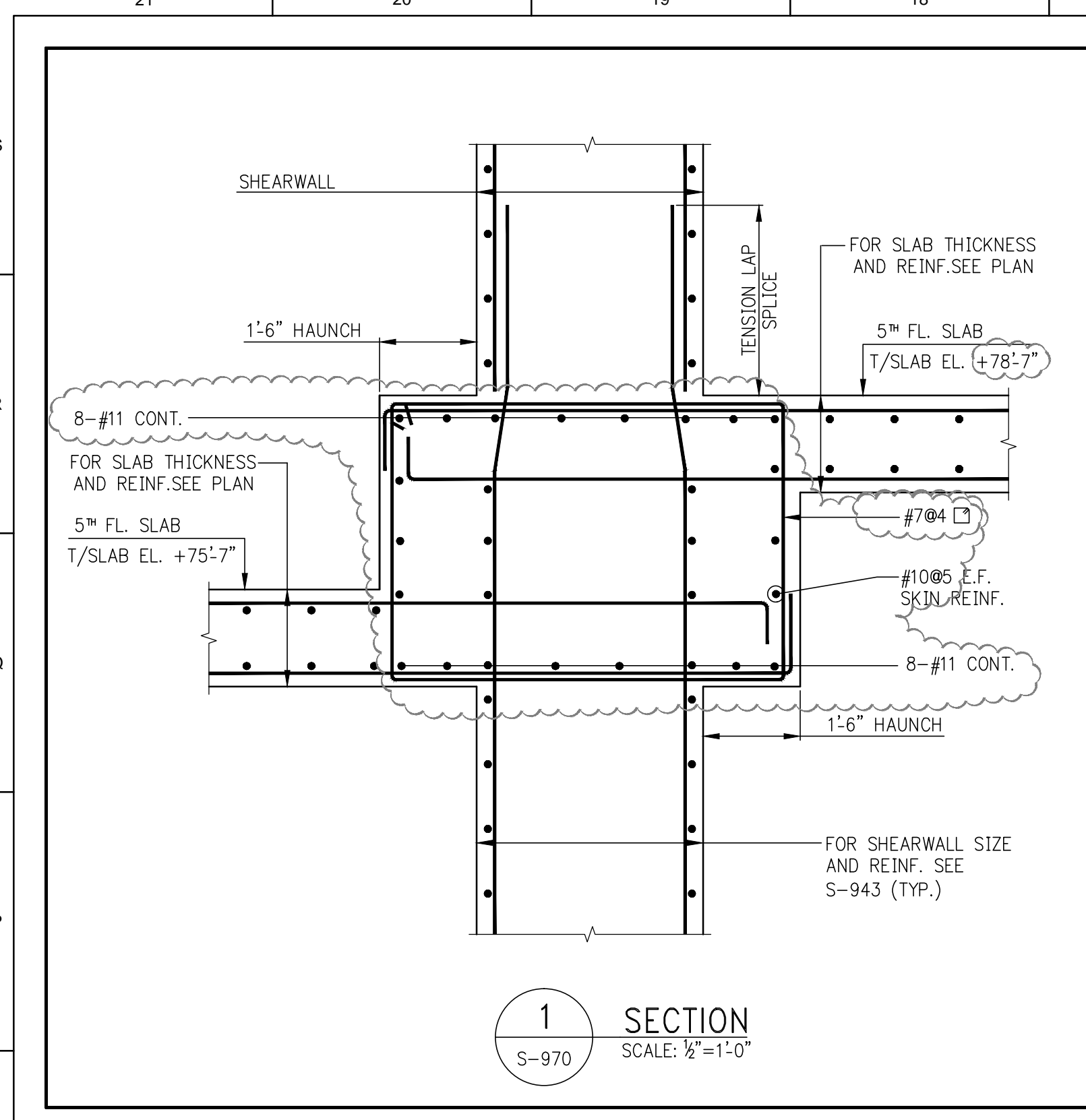
EXTERIOR WALL CONSULTANT:
Israel Berger & Associates
360 Park Avenue South, 15th Floor
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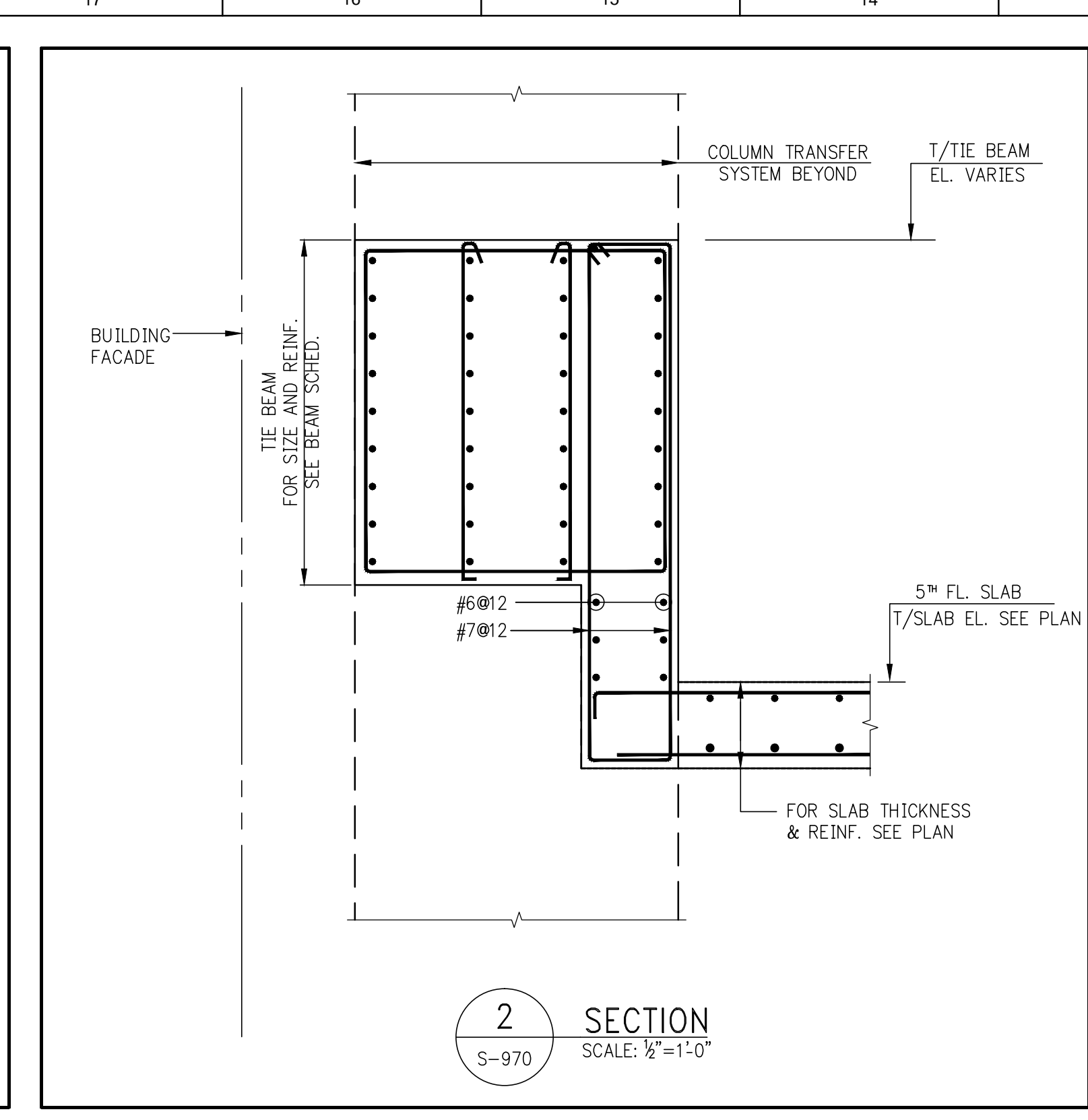
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ACOUSTICAL CONSULTANTS:
CERAMI & ASSOCIATES INC.
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New York, NY 10018
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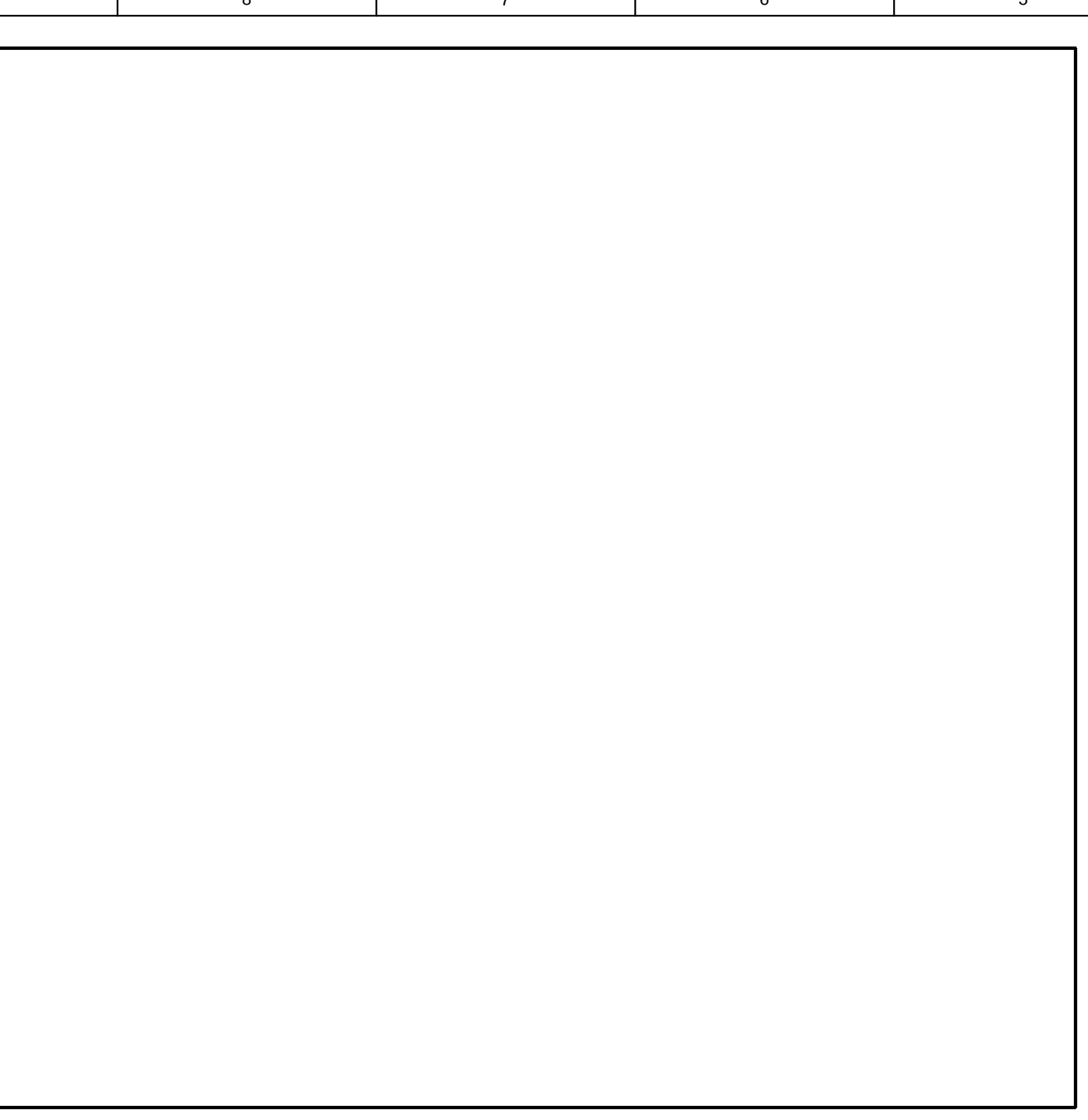
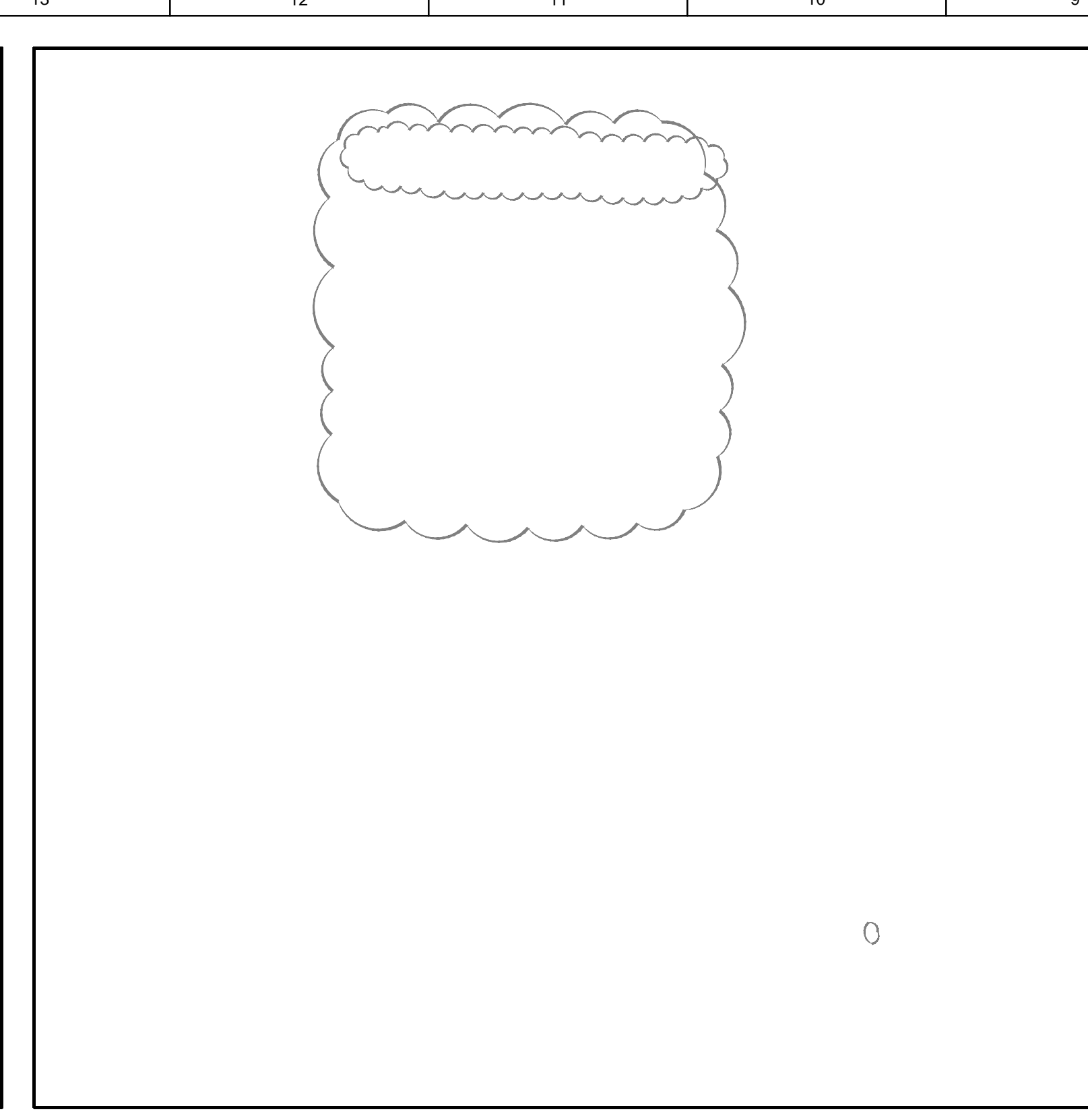
LANDSCAPE DESIGNER:
Nelson Byrd Wolfe
200 Park Avenue South, Suite 920
New York, NY 10003
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1 SECTION
SCALE: 1/8"=1'-0"

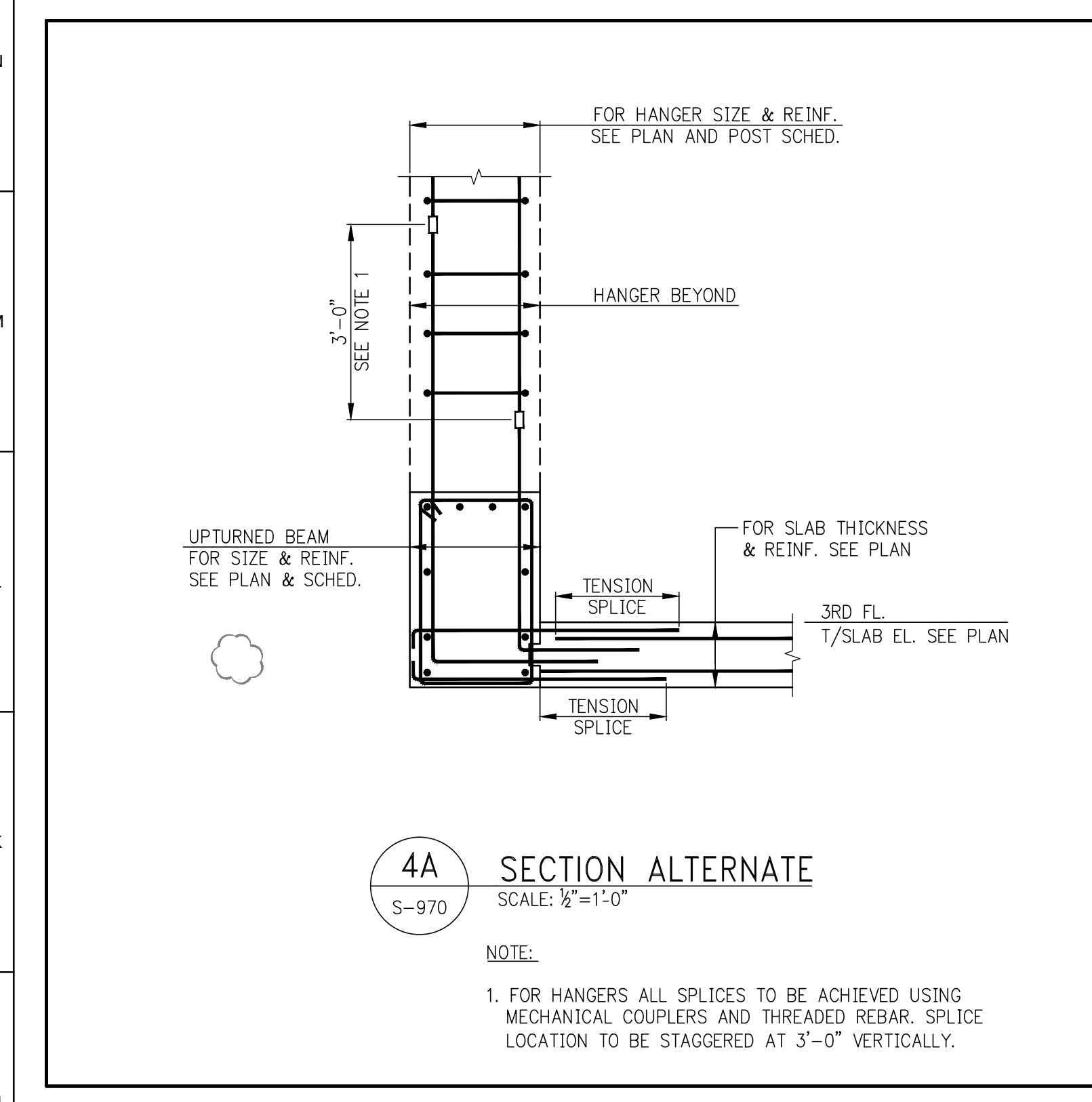


2 SECTION
SCALE: 1/8"=1'-0"



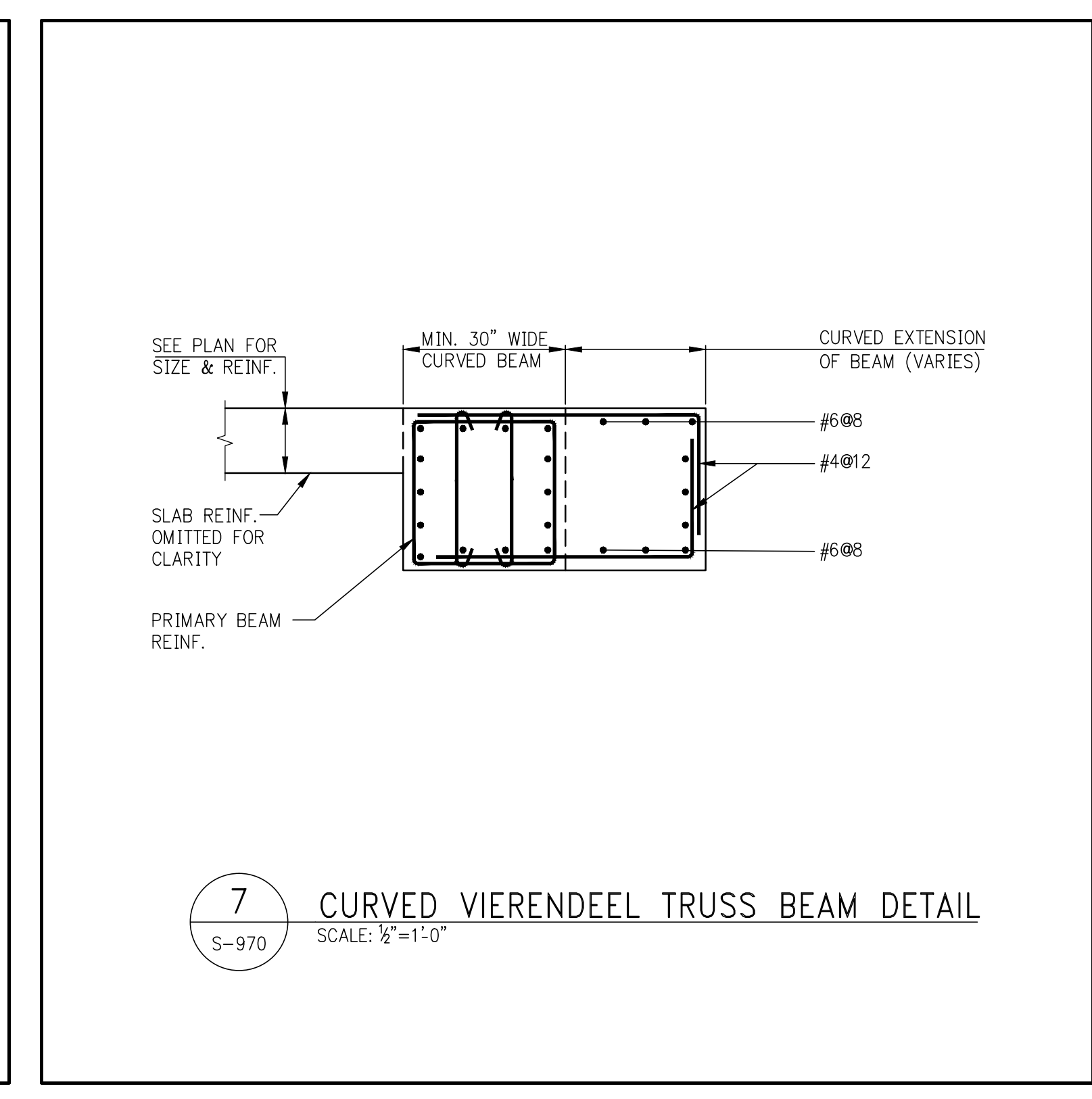
4 SECTION
SCALE: 1/8"=1'-0"

NOTES:
1. STRUCTURAL STEEL TO BE COATED WITH INTUMESCENT PAINT
2. FOR HANGER ALL SPLICES TO BE ACHIEVED USING MECHANICAL COUPLERS AND THREADED REBAR

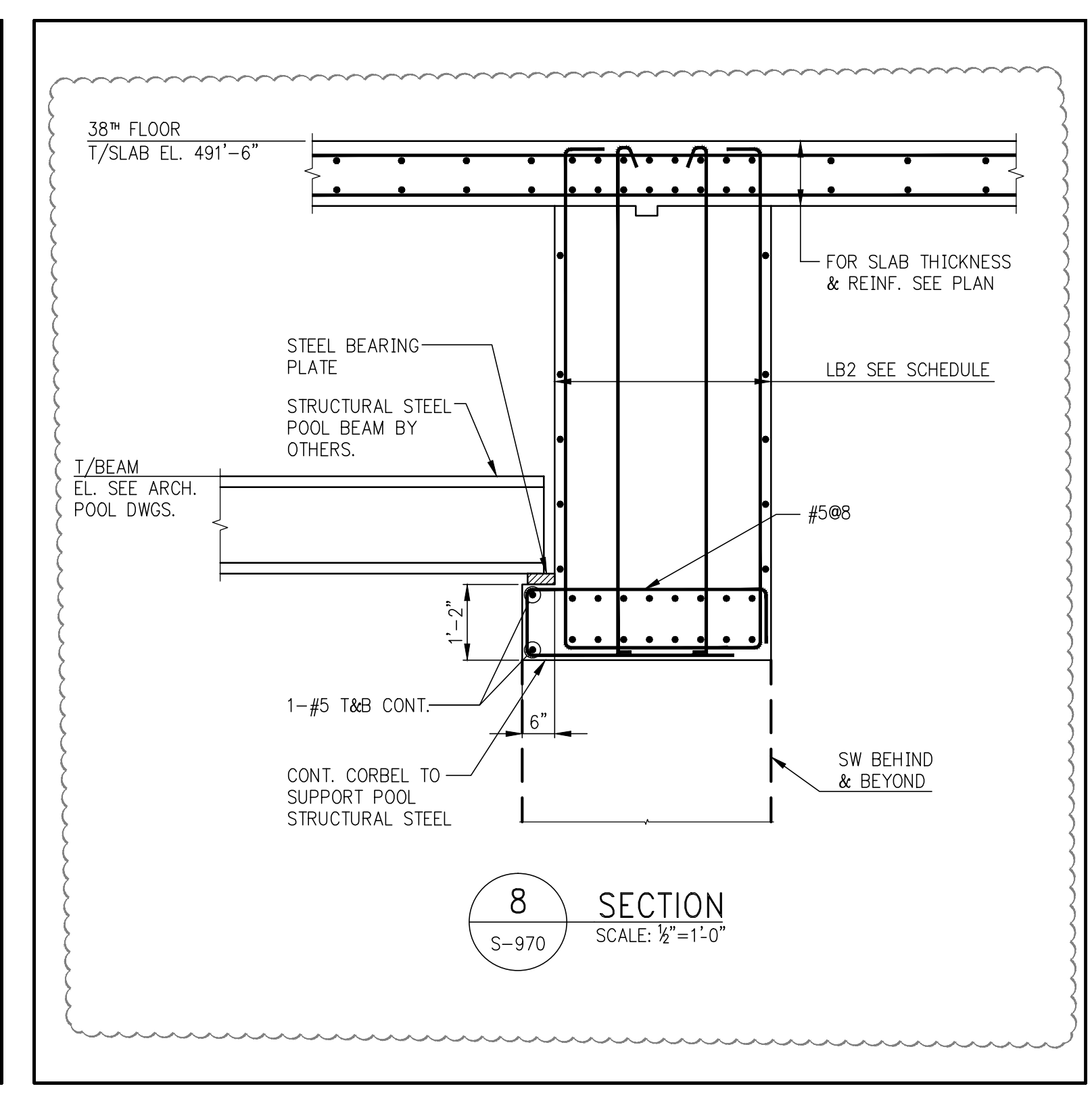


4A SECTION ALTERNATE
SCALE: 1/8"=1'-0"

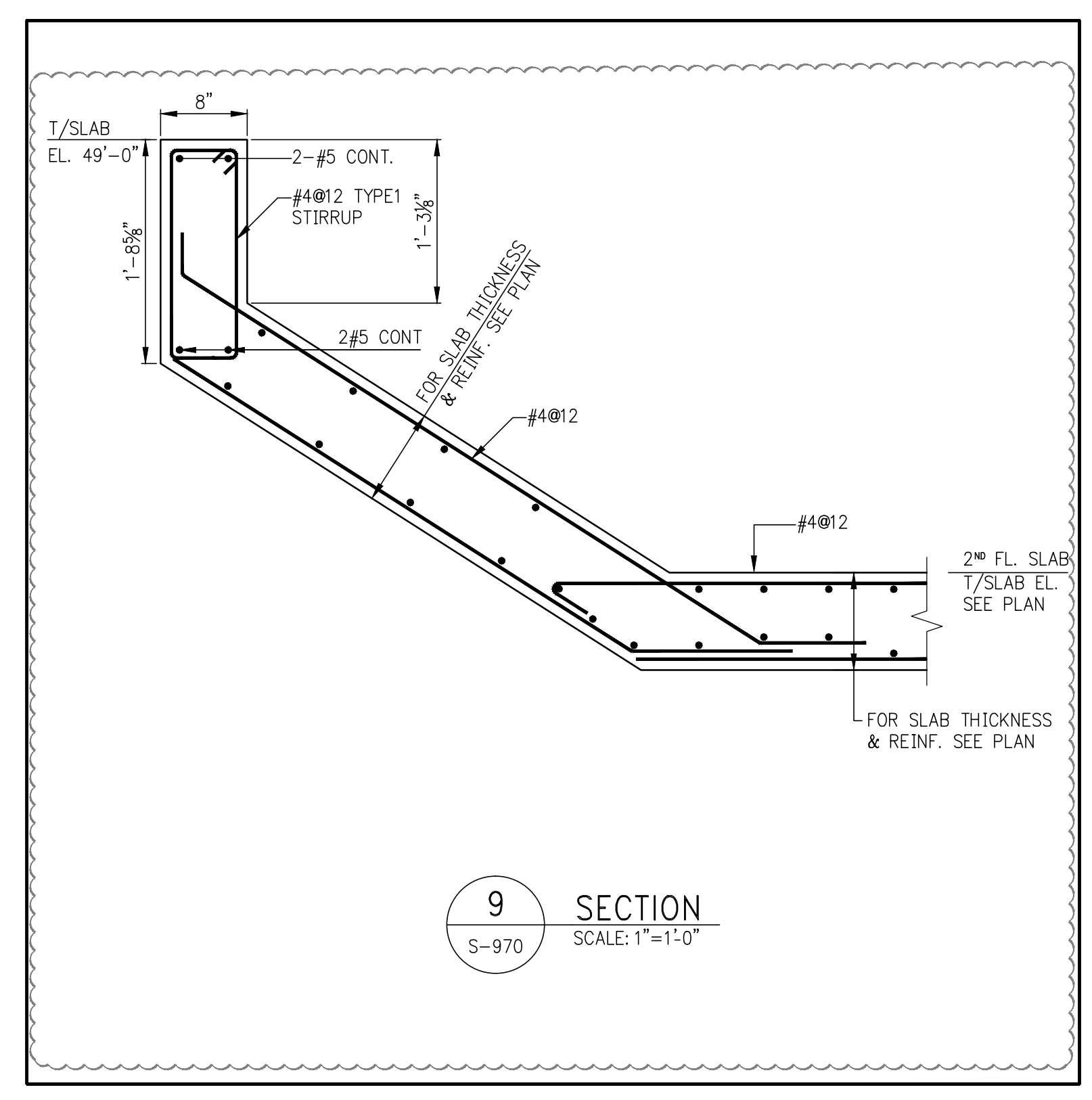
NOTE:
1. FOR HANGERS ALL SPLICES TO BE ACHIEVED USING MECHANICAL COUPLERS AND THREADED REBAR. SPLICE LOCATION TO BE STAGGERED AT 3'-0" VERTICALLY.



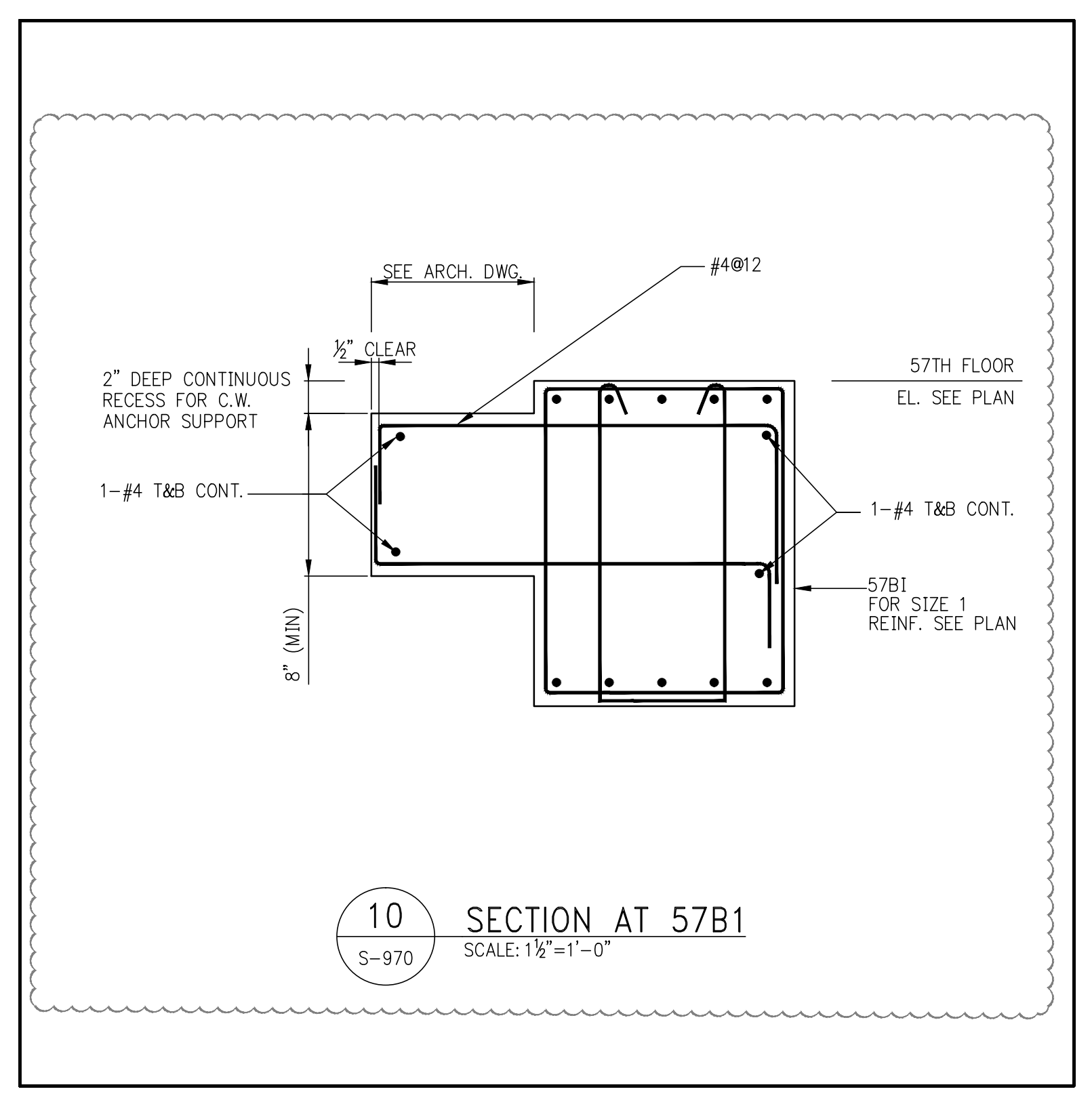
7 CURVED VIENDEEEL TRUSS BEAM DETAIL
SCALE: 1/8"=1'-0"



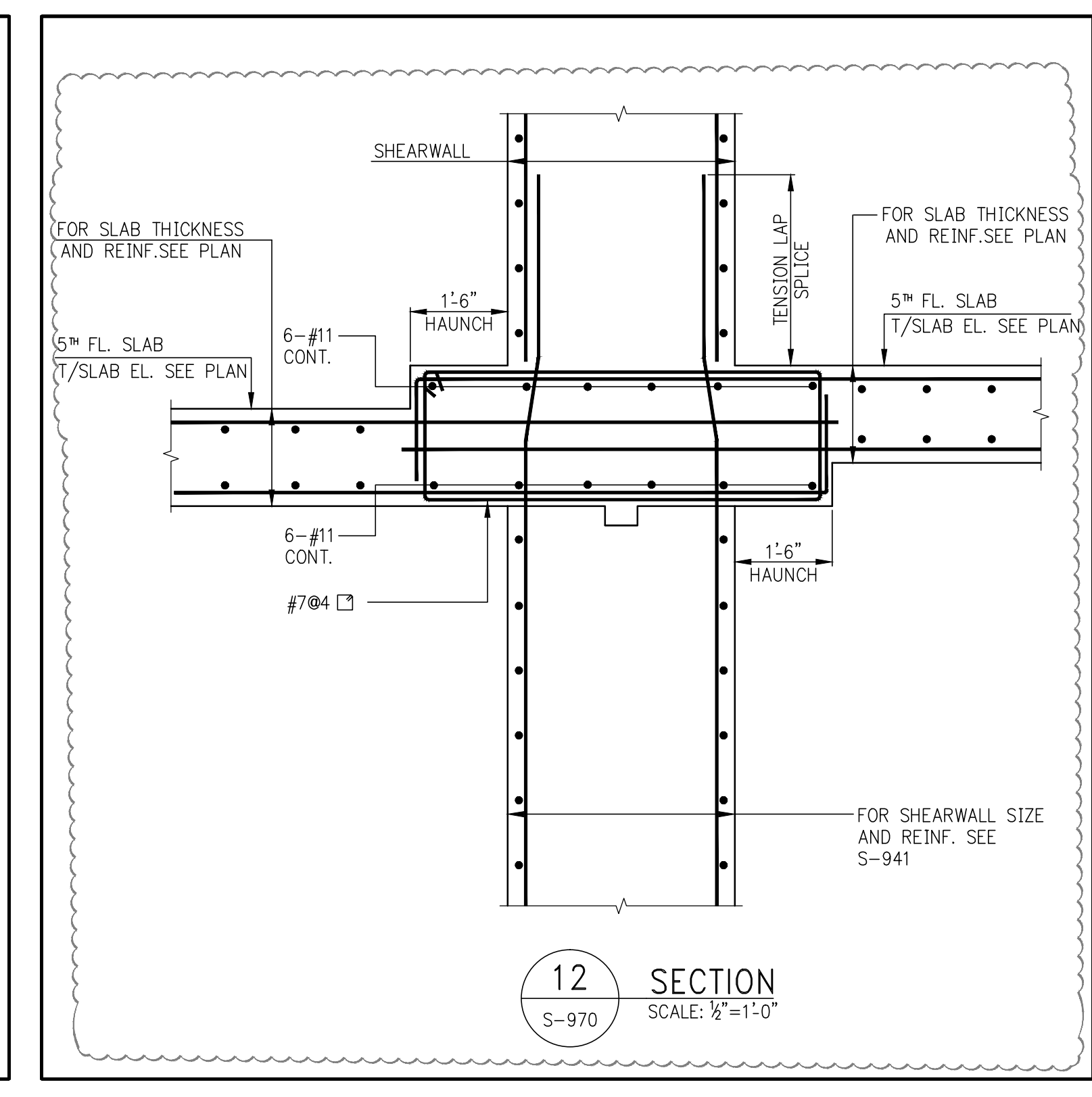
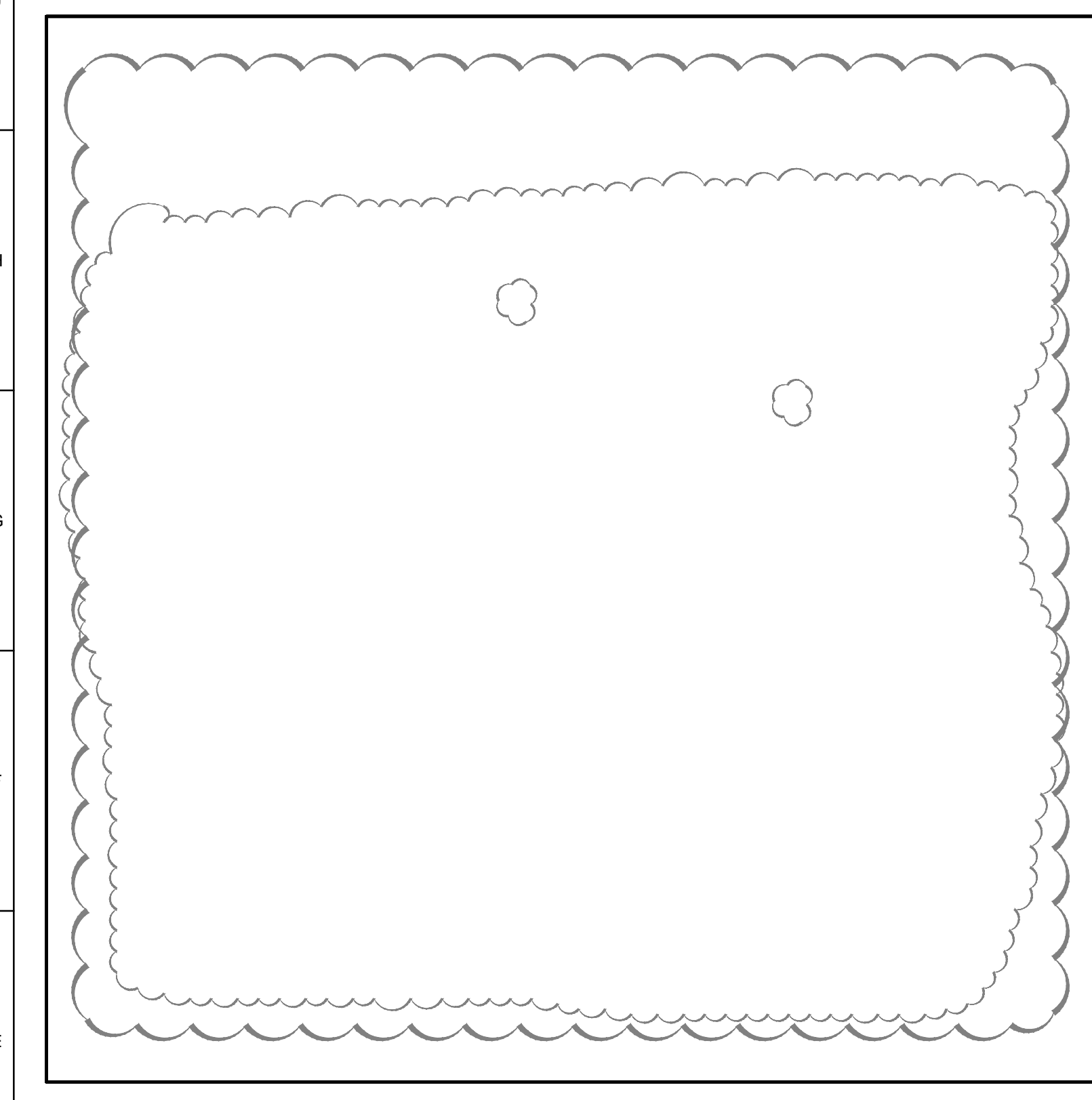
8 SECTION
SCALE: 1/8"=1'-0"



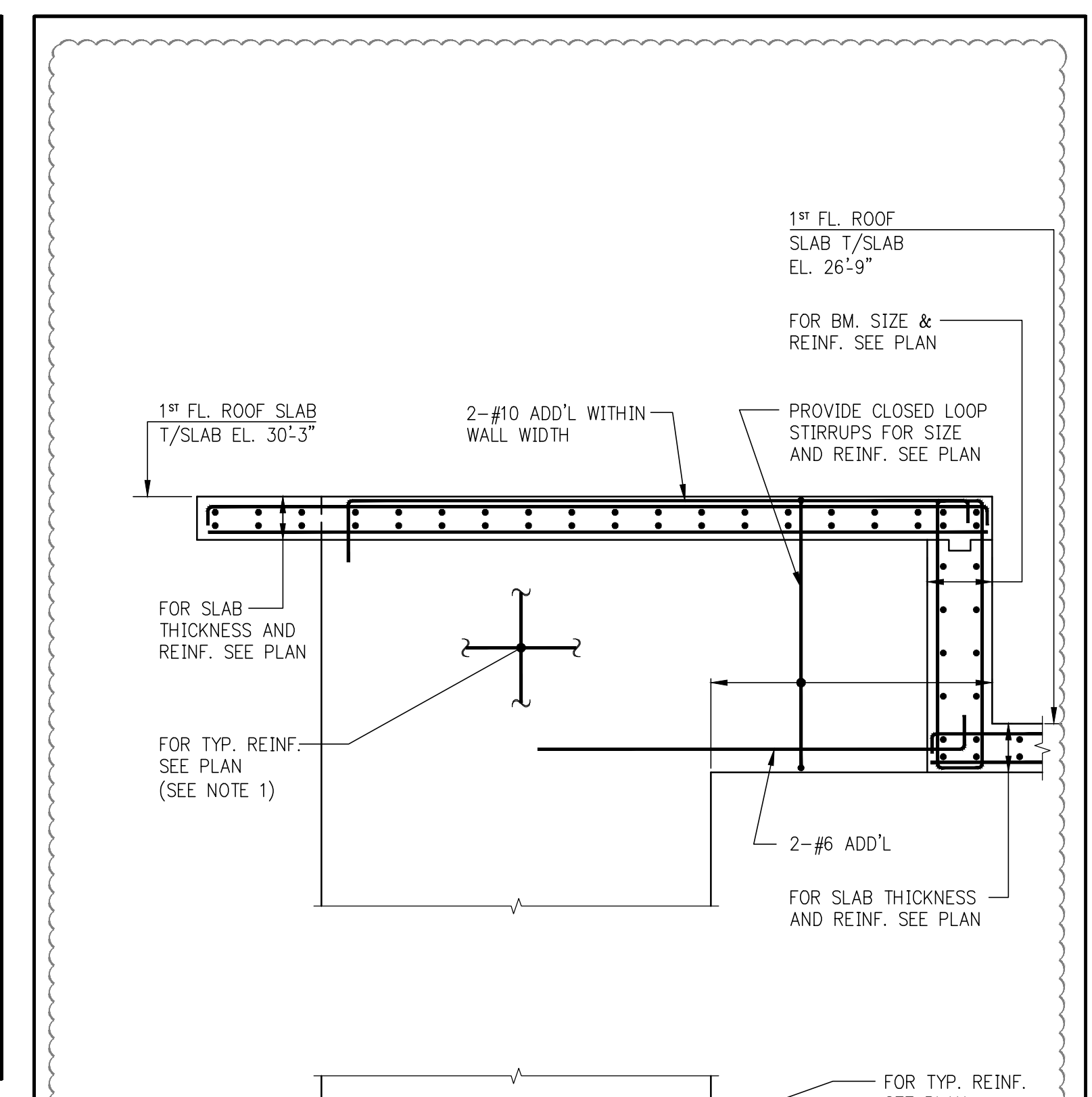
9 SECTION
SCALE: 1/8"=1'-0"



10 SECTION AT 57B1
SCALE: 1/8"=1'-0"

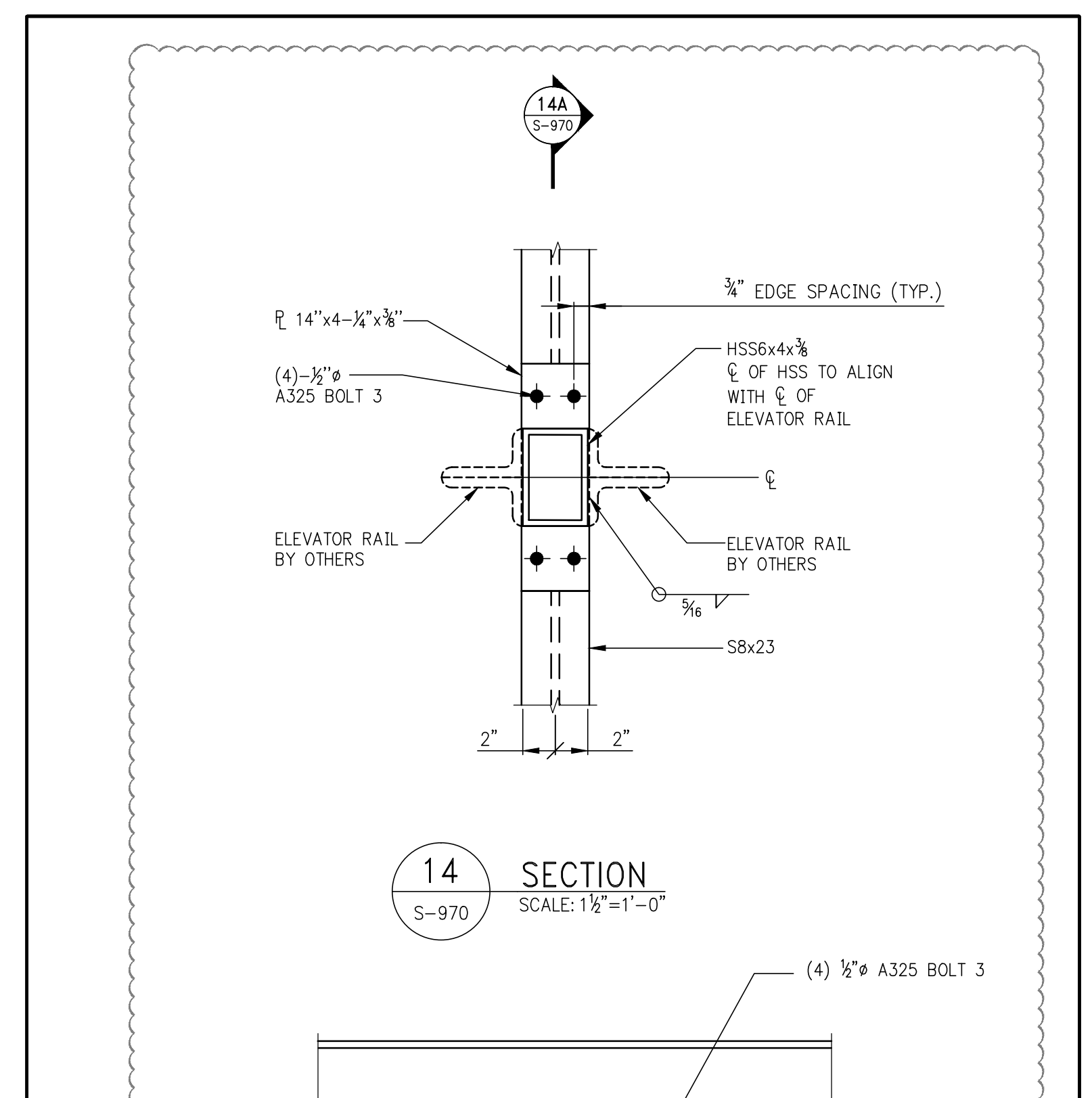


12 SECTION
SCALE: 1/8"=1'-0"

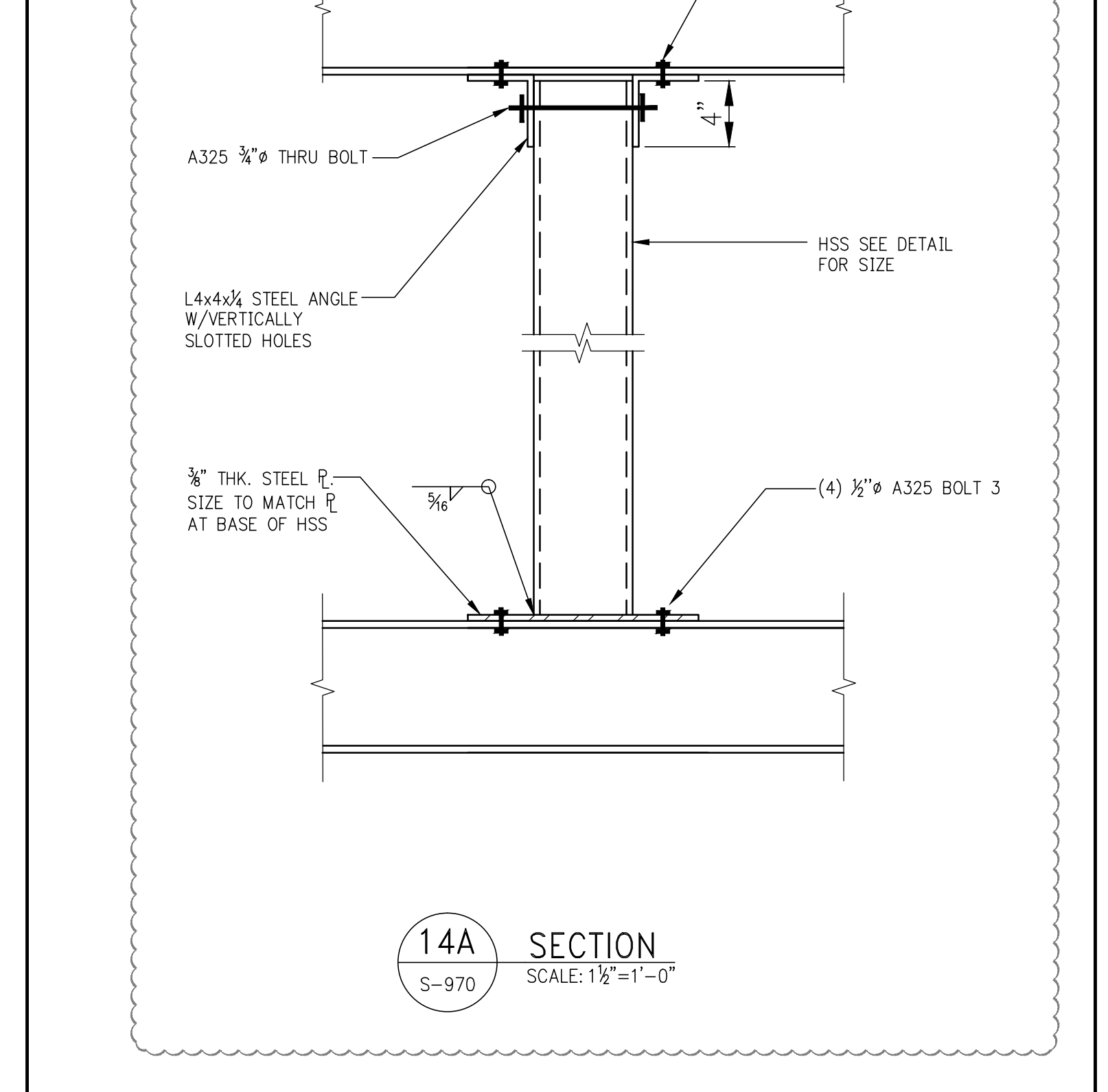


13 SECTION
SCALE: 1/8"=1'-0"

NOTES:
1. ALL WALL REINFORCEMENT TO BE TENSION LAP SPliced



14 SECTION
SCALE: 1/8"=1'-0"



14A SECTION
SCALE: 1/8"=1'-0"

SHEET NOTES:

NO	ISSUE SET	REV	DATE
100%	SD ISSUE	02	15-13
REVISED	SD ISSUE	03	06-13
REVISED	SD ISSUE	08	21-13
FINAL	SD ISSUE	11	25-13
REVISED	SD	08	22-14
REVISED	AS NOTED	08	29-14
REVISION	SUPERSTRUCTURE EARLY BID	11	17-14
SET			
DESIGN DEVELOPMENT SET		12	22-14
NYCT SUBMISSION		12	23-14
UPDATED DOB SET		01	20-15
70% CD		04	27-15
85% CD		07	02-15
90% PARTIAL CD ISSUE		09	03-15
FLOORS SC-12			
95% CD		11	24-15
PAA #2		01	26-16

STAMP



DATE OF PRINT
2016-01-26

DRAWING SCALE

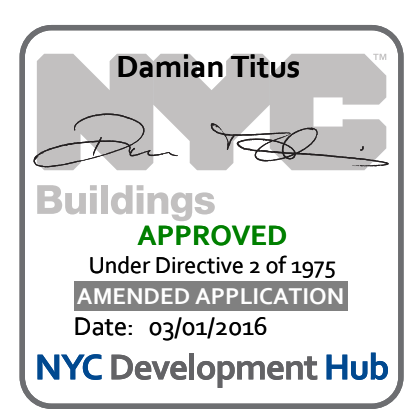
PROJECT NUMBER
2012068

TITLE

SUPERSTRUCTURE SECTIONS 1

DRAWING NO.

S-970.01



OWNER:
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LANDSCAPE DESIGNER:
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SHEET NOTES:

NO	ISSUE SET	REV	DATE
	REVISED SD	08	22-14
	REVISED AS NOTED	09	29-14
	SUPERSTRUCTURE EARLY BID	11	17-14
	SET	12	23-14
	DESIGN DEVELOPMENT SET	12	23-14
	NYC SUBMISSION	12	23-14
	UPDATED DOB SET	01	20-15
	20% CD	04	27-15
	85% CD	07	02-15
	90% PARTIAL CD ISSUE	08	03-15
	FLOORS SC-12	09	03-15
	95% CD	11	24-15
	PAA #2	01	26-16

NO	ISSUE SET	REV	DATE
	REVISED SD	08	22-14
	REVISED AS NOTED	09	29-14
	SUPERSTRUCTURE EARLY BID	11	17-14
	SET	12	23-14
	DESIGN DEVELOPMENT SET	12	23-14
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	FLOORS SC-12	09	03-15
	95% CD	11	24-15
	PAA #2	01	26-16

NO	ISSUE SET	REV	DATE
	REVISED SD	08	22-14
	REVISED AS NOTED	09	29-14
	SUPERSTRUCTURE EARLY BID	11	17-14
	SET	12	23-14
	DESIGN DEVELOPMENT SET	12	23-14
	NYC SUBMISSION	12	23-14
	UPDATED DOB SET	01	20-15
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	FLOORS SC-12	09	03-15
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	PAA #2	01	26-16

STAMP

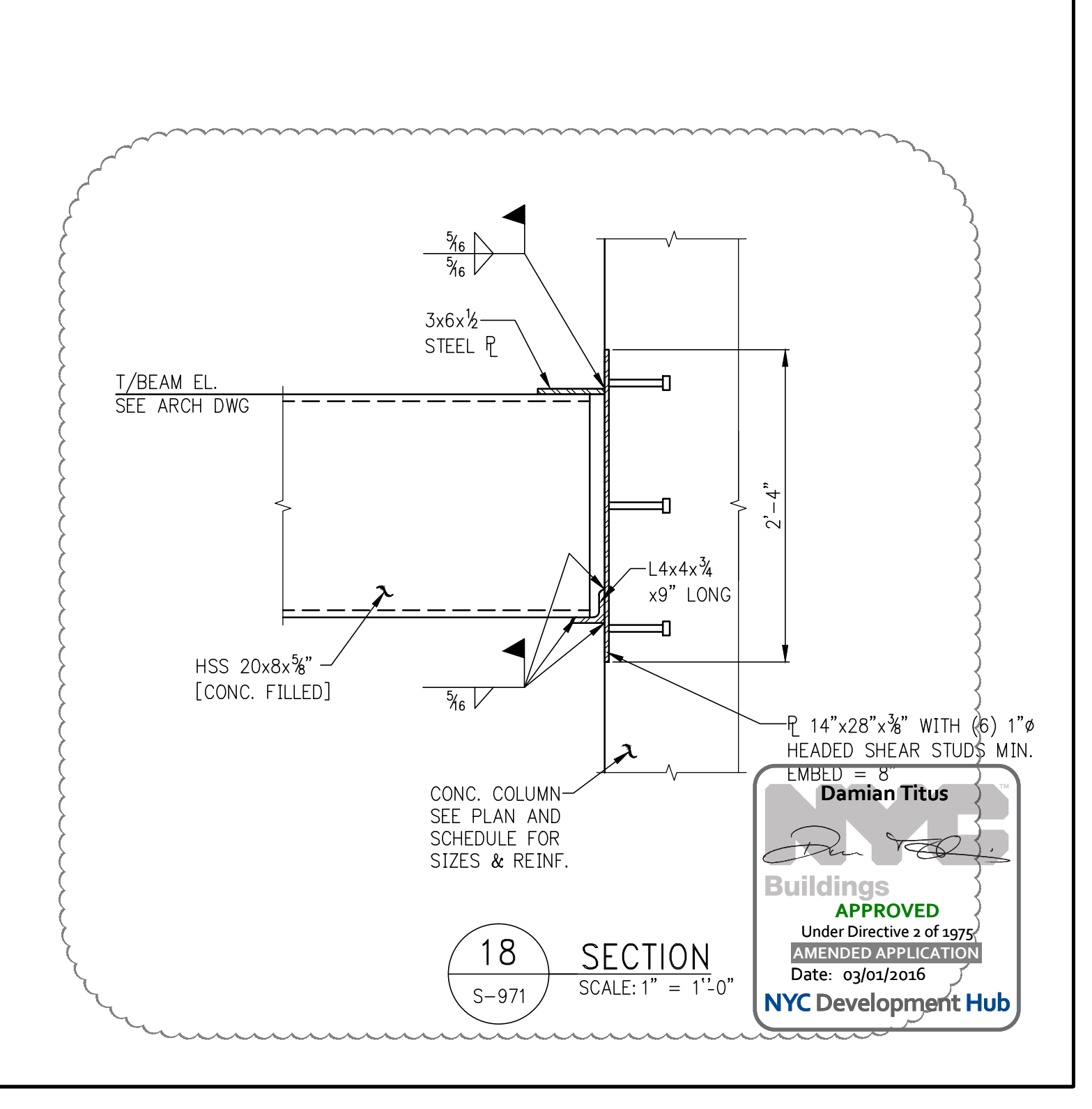
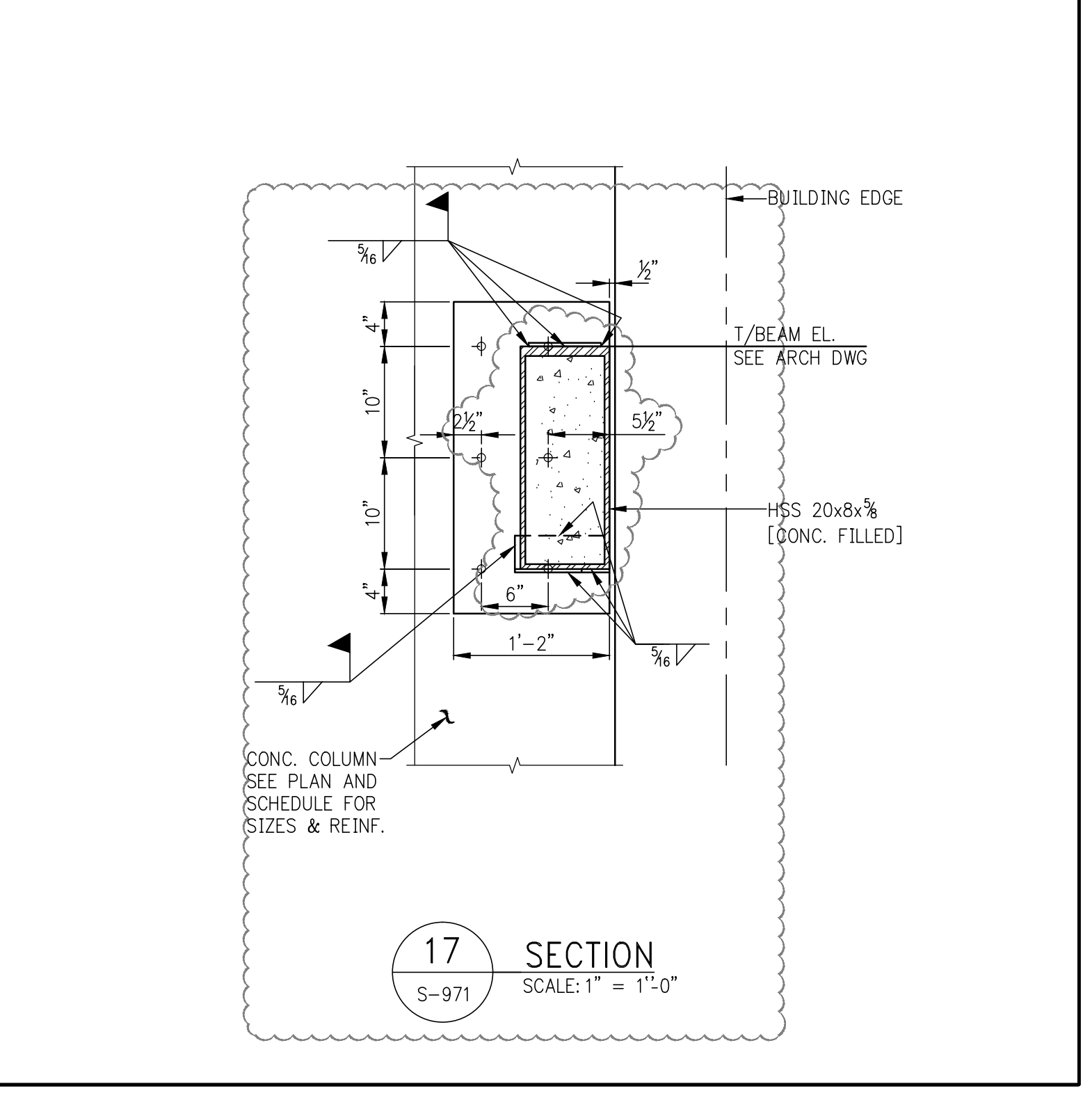
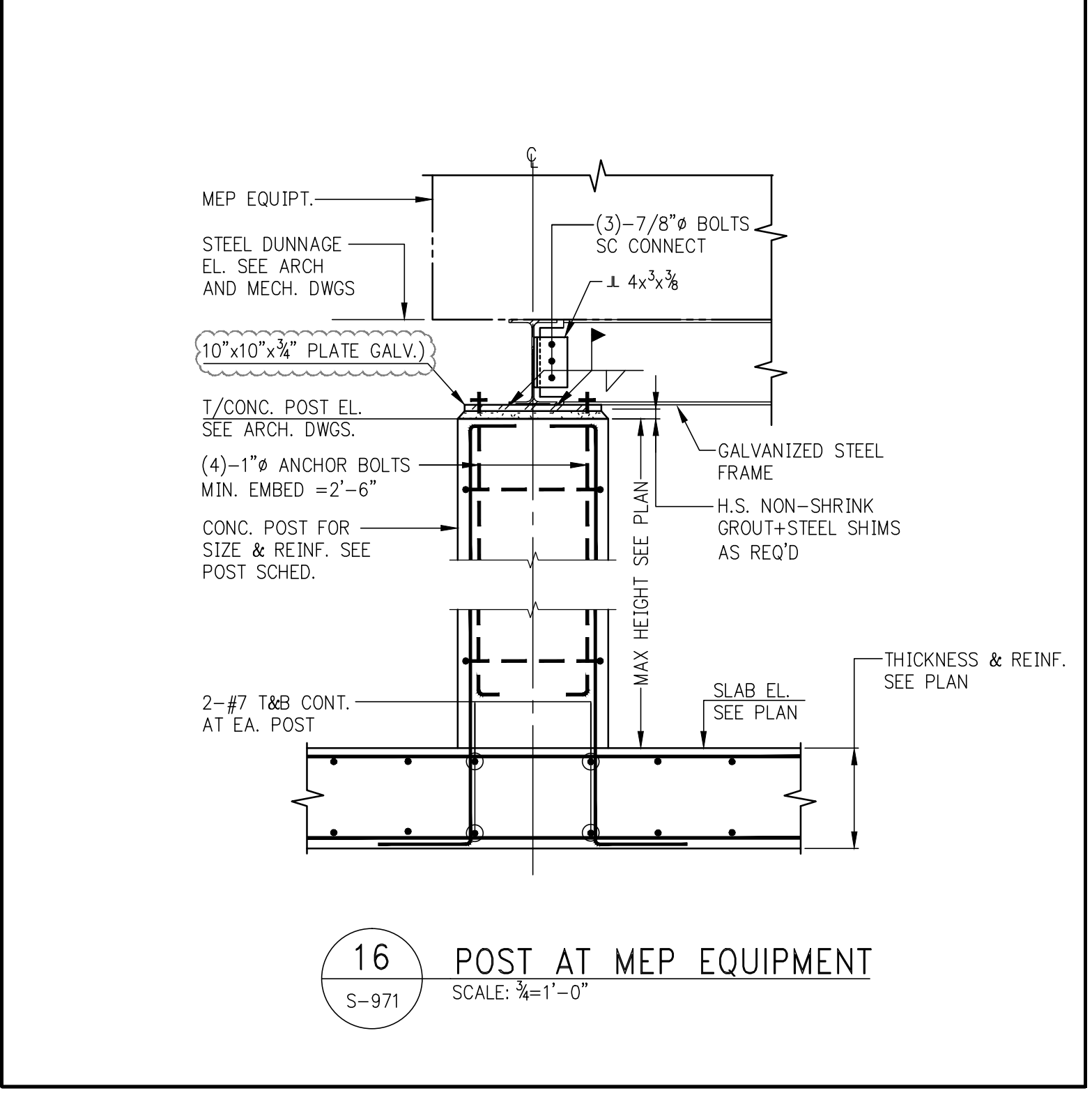
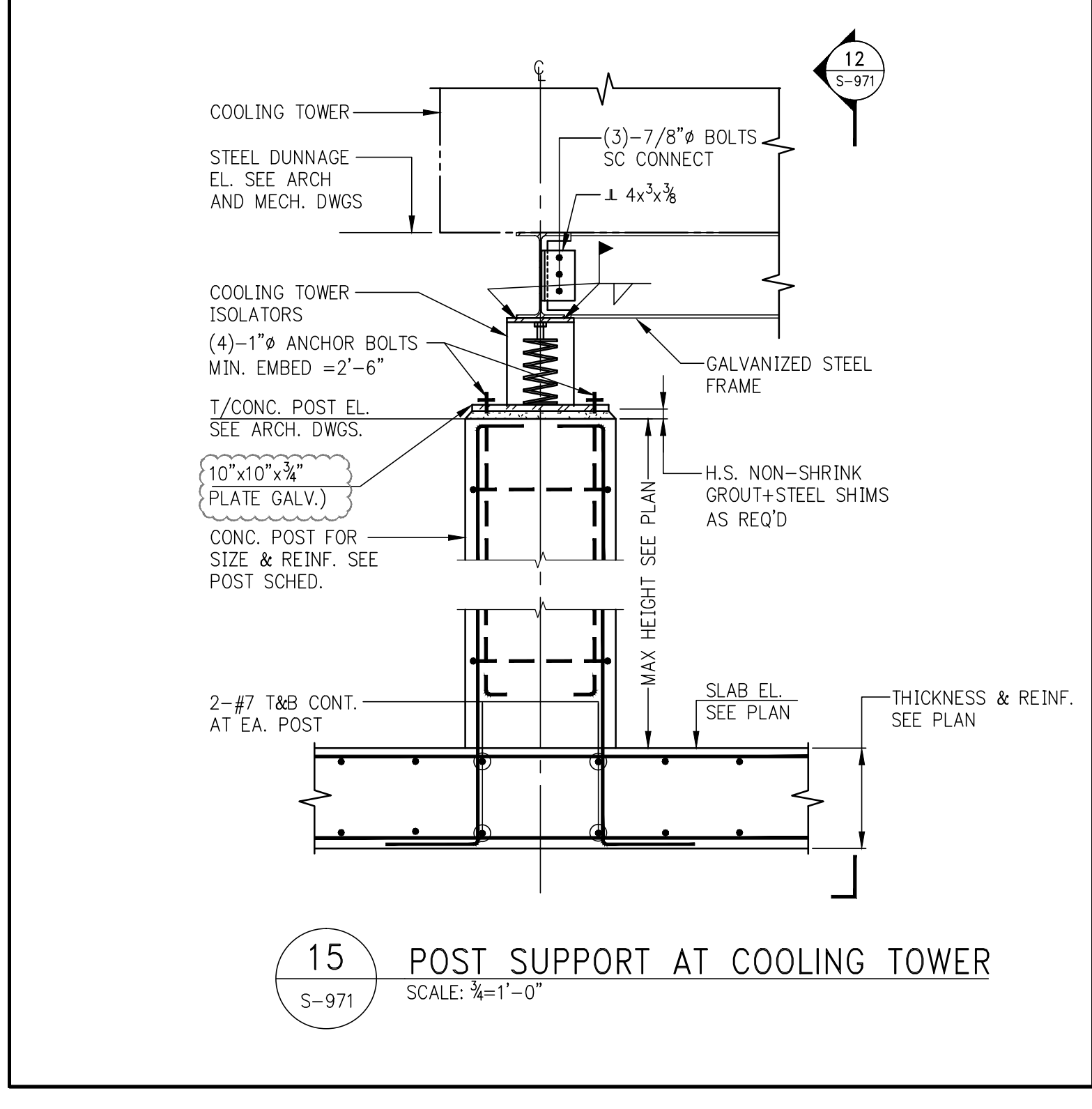
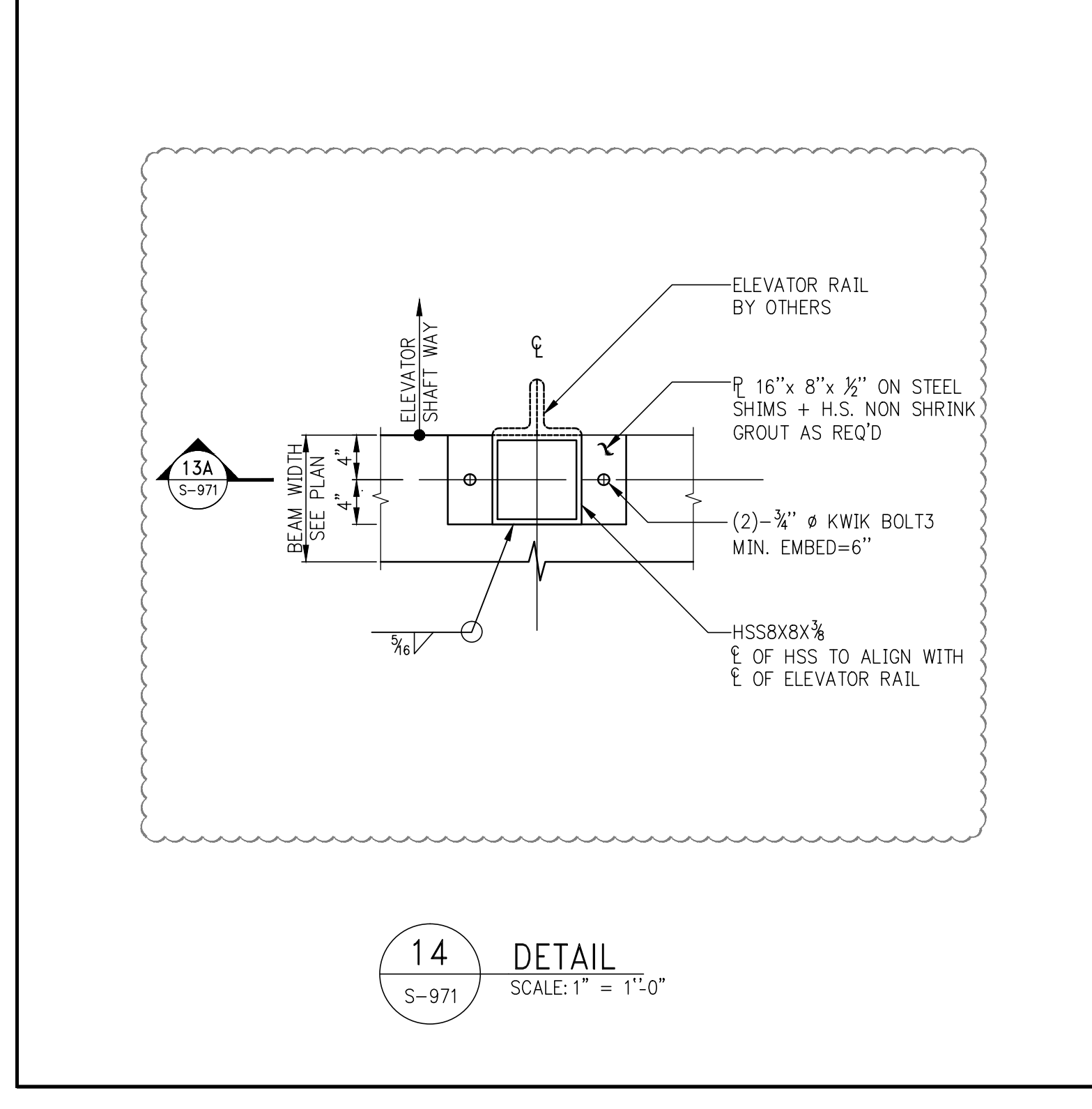
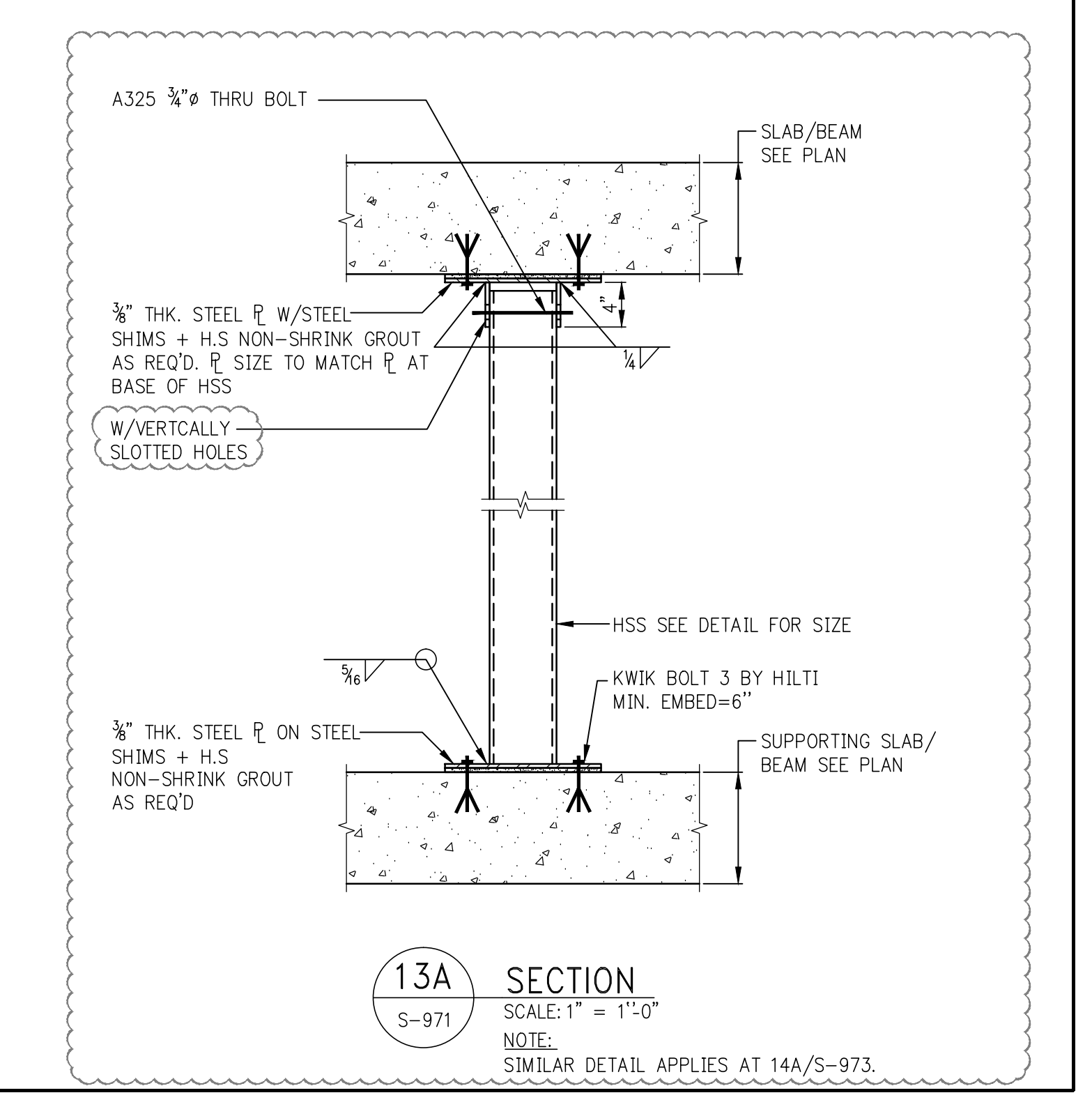
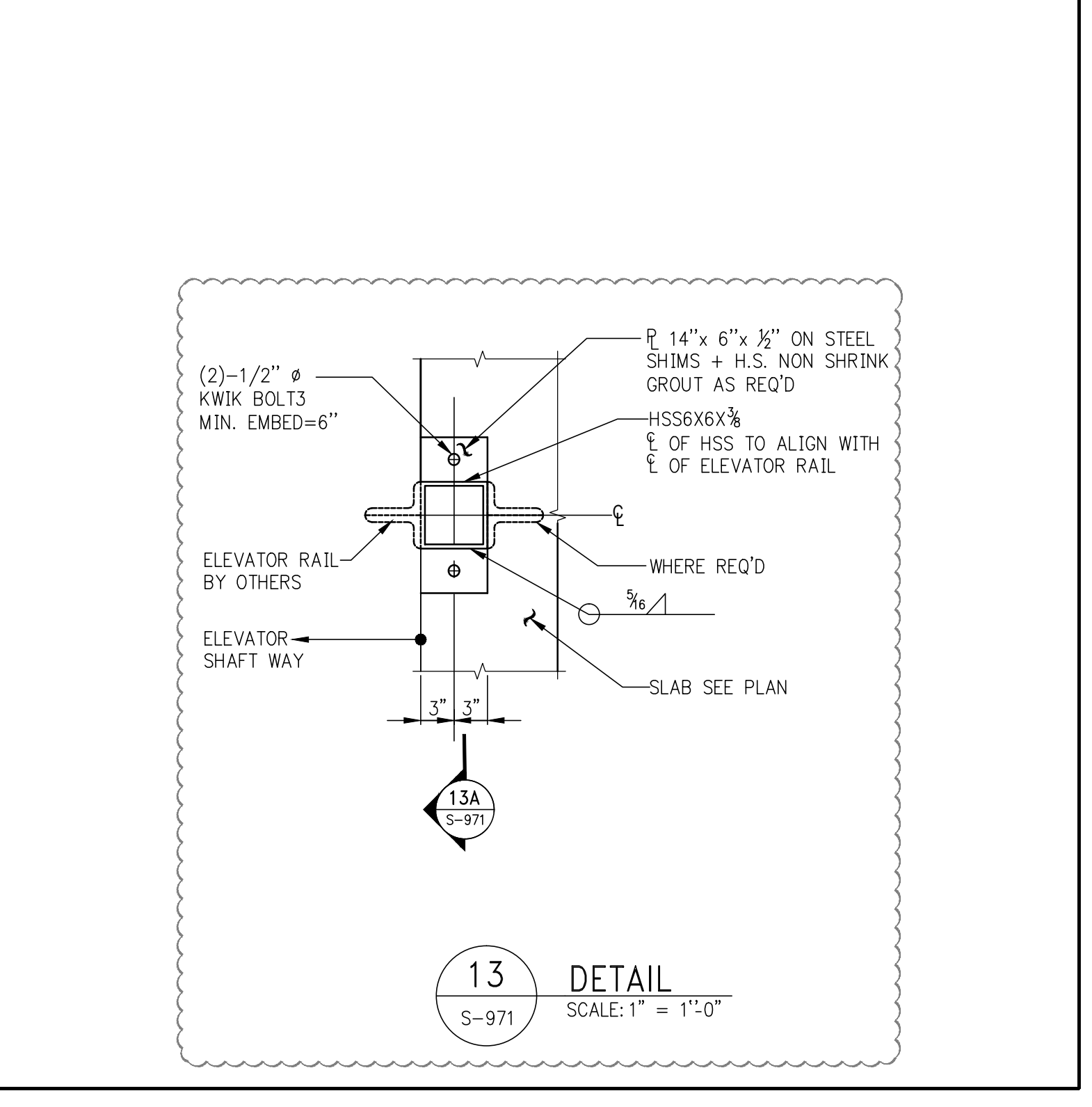
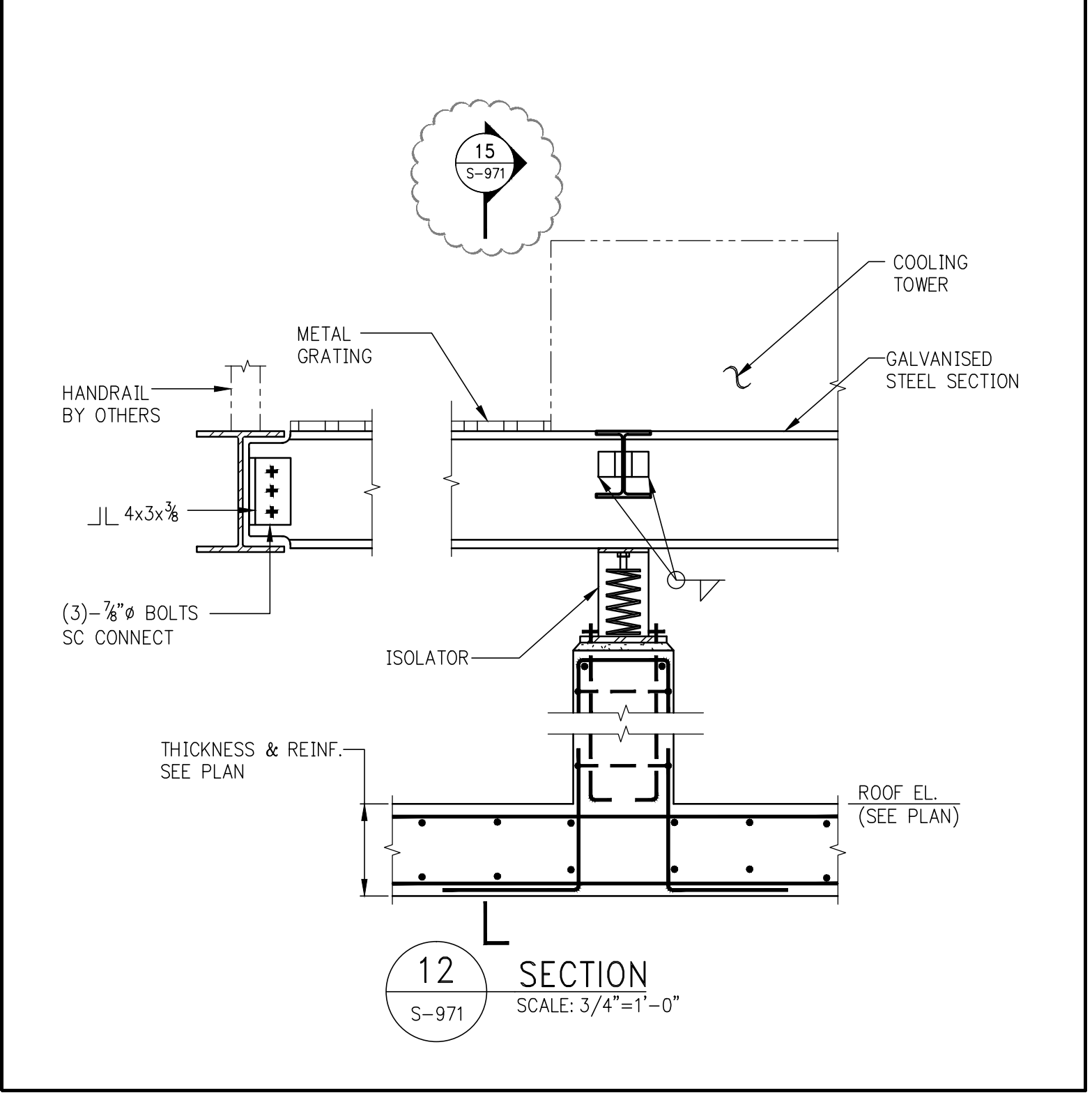
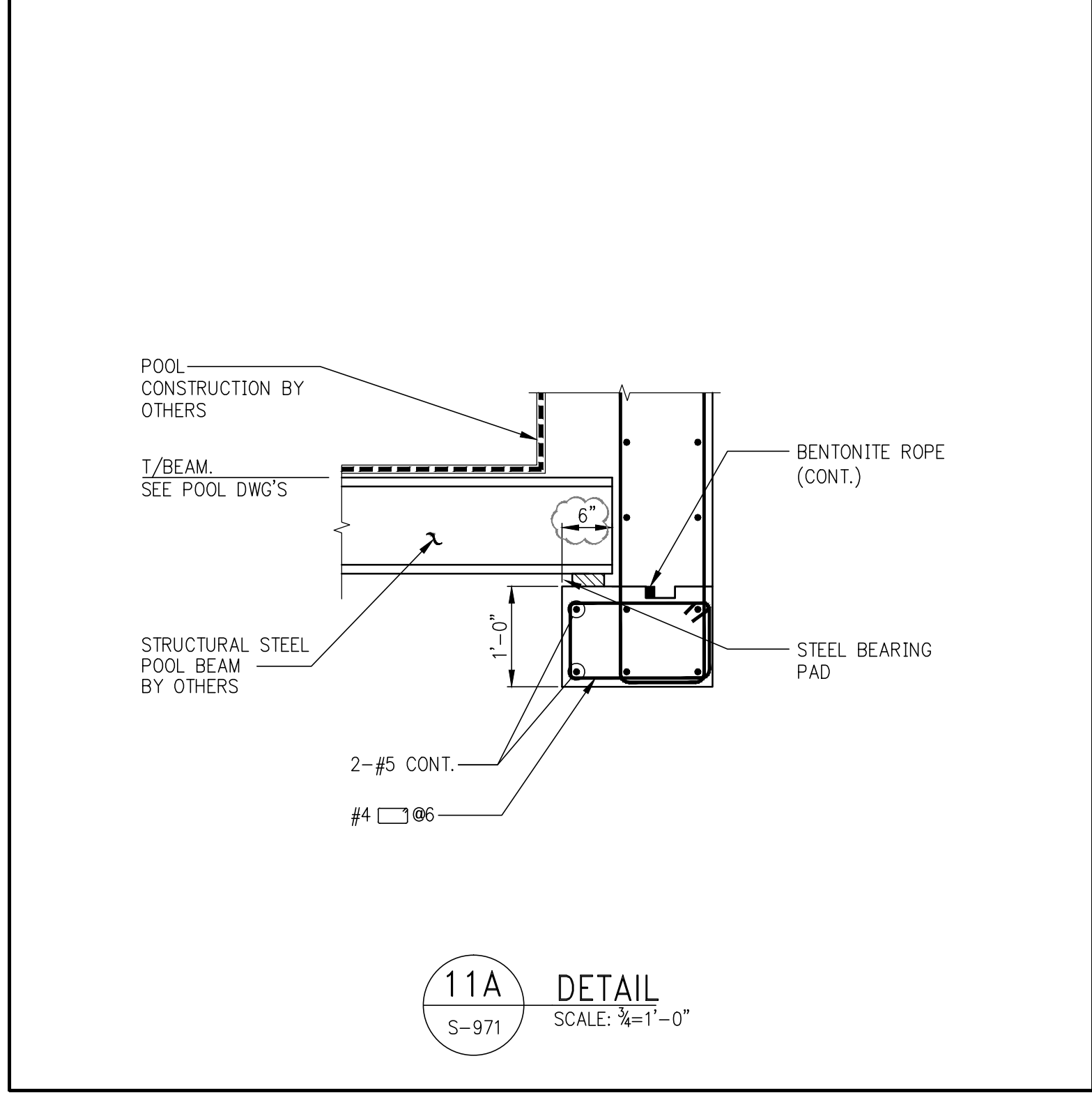
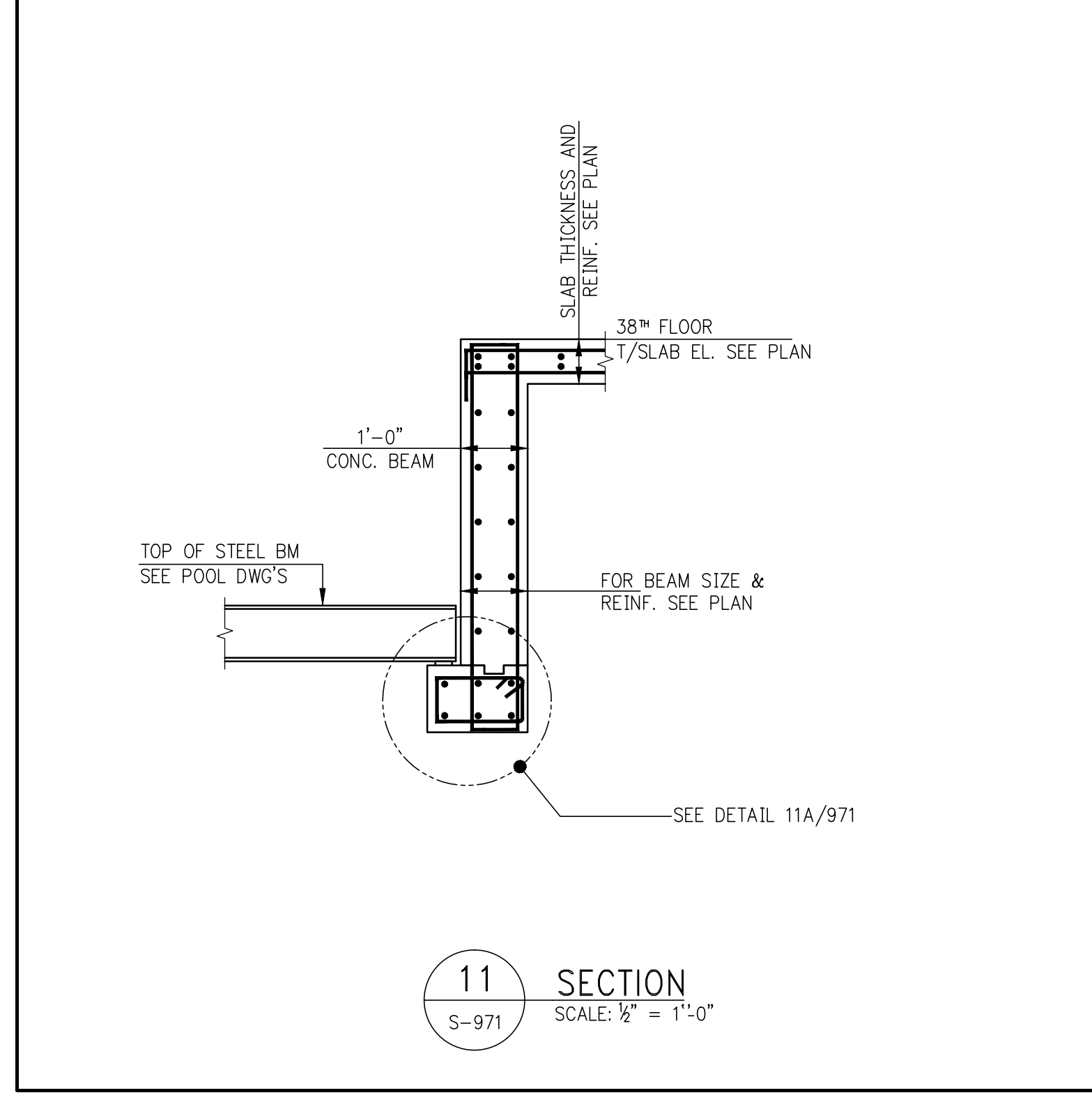
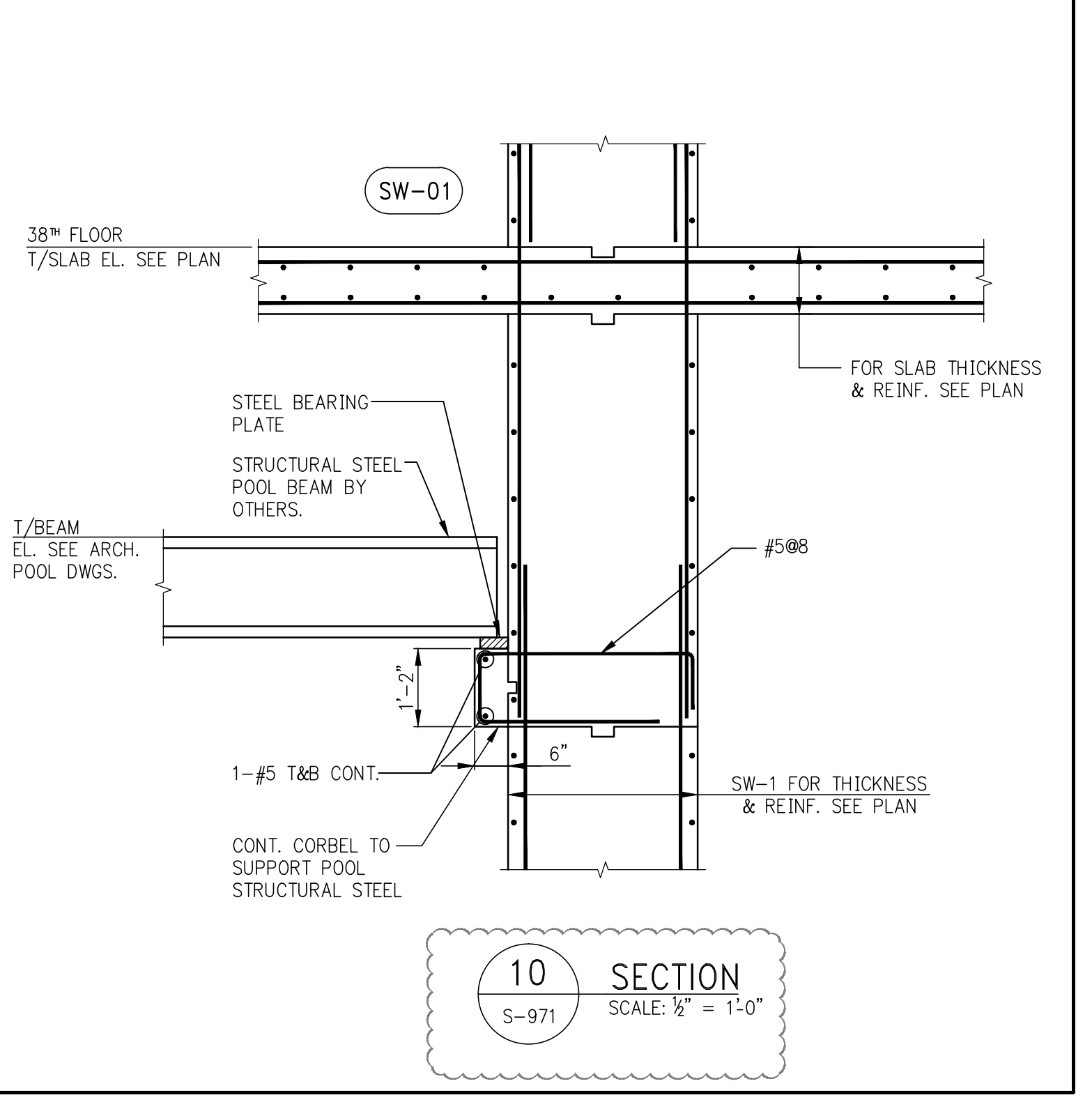
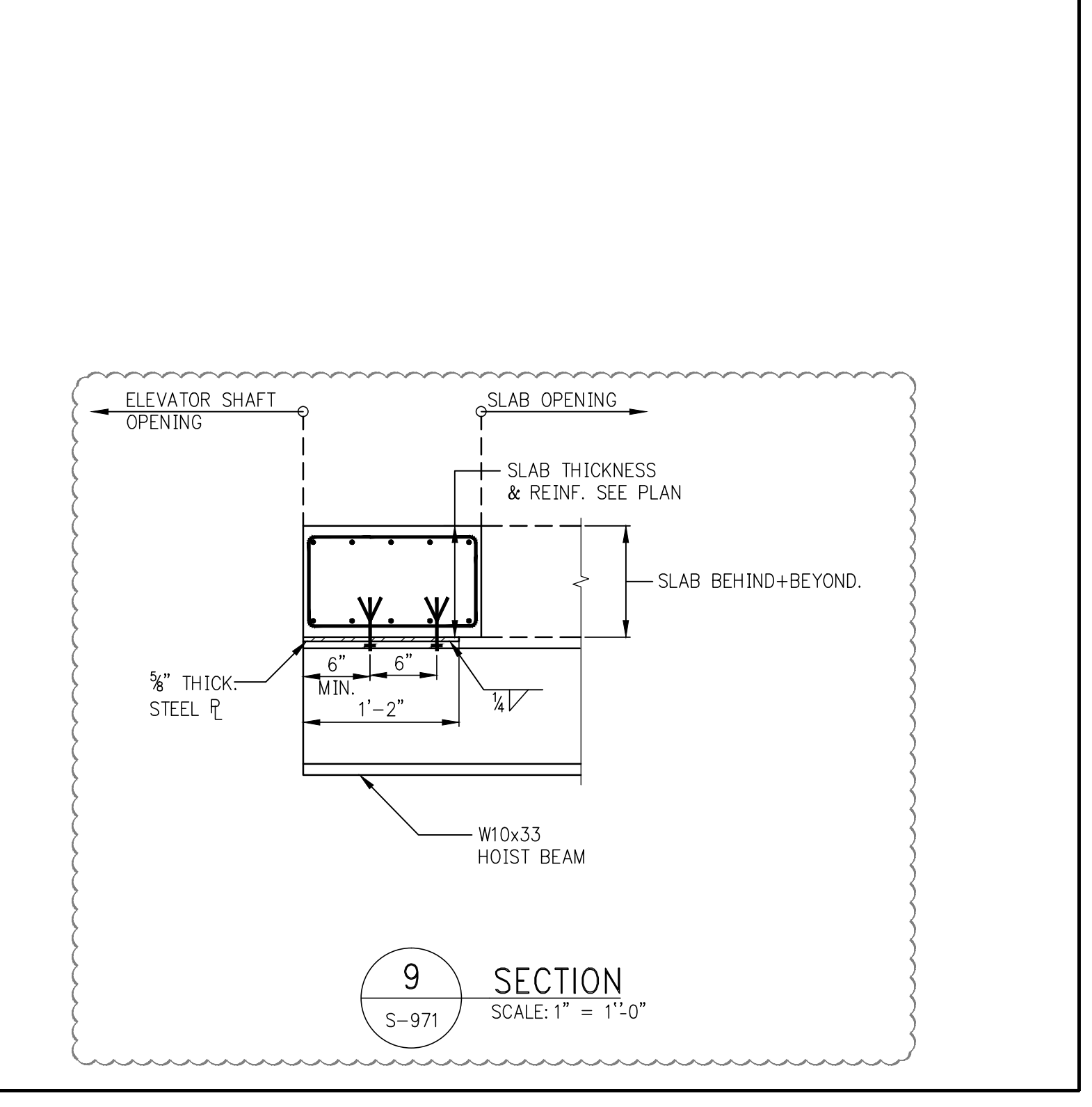
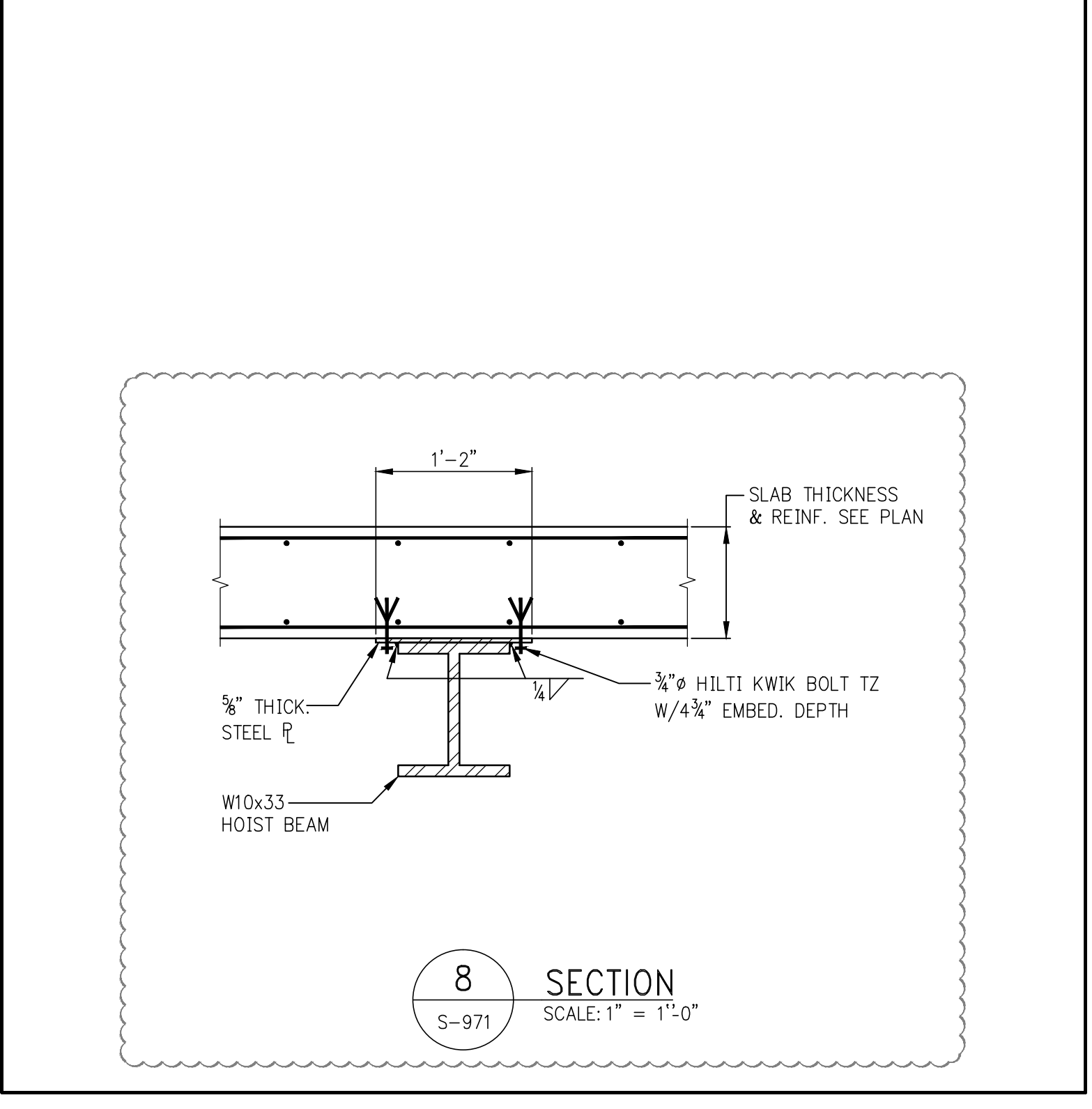
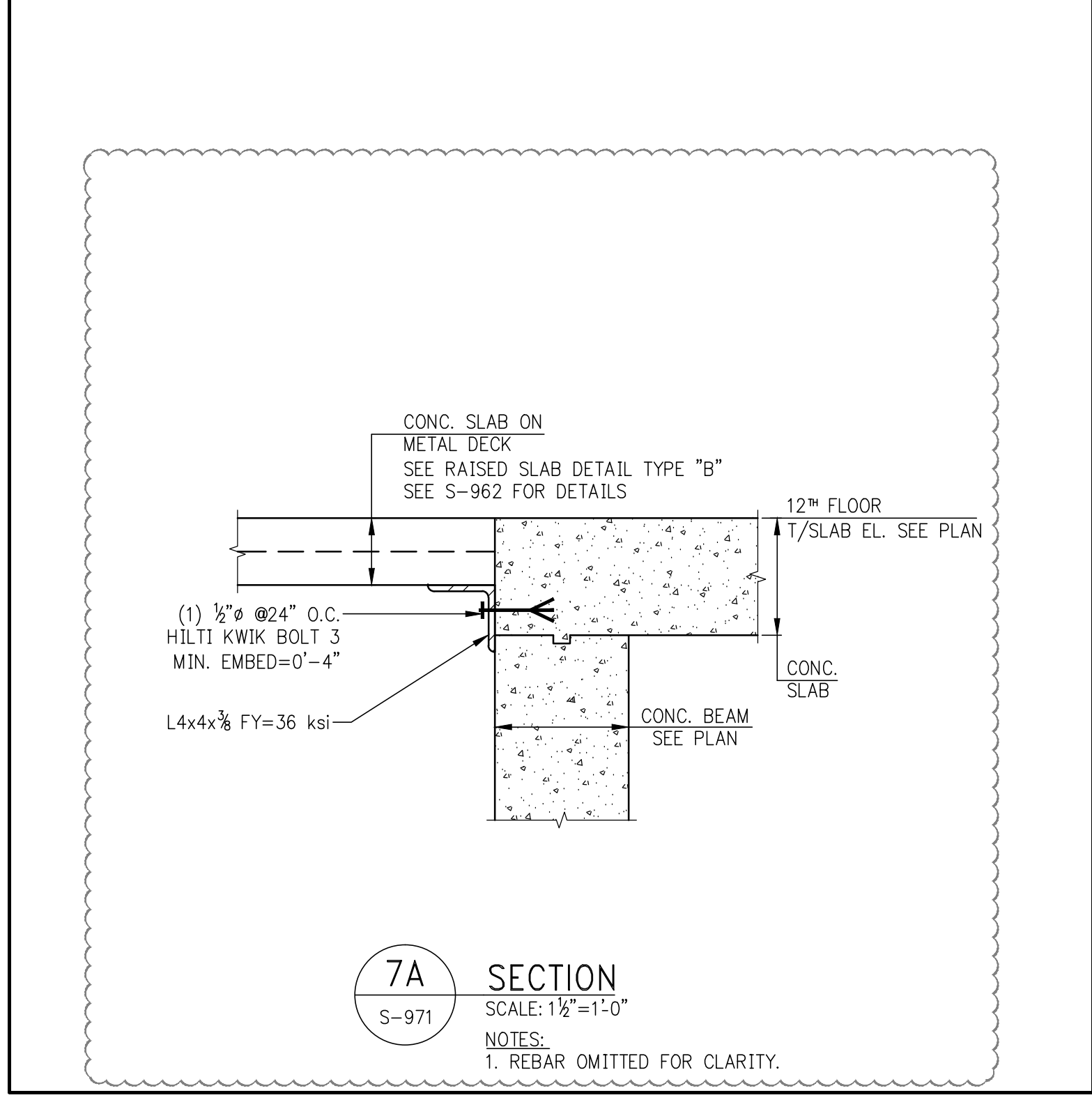
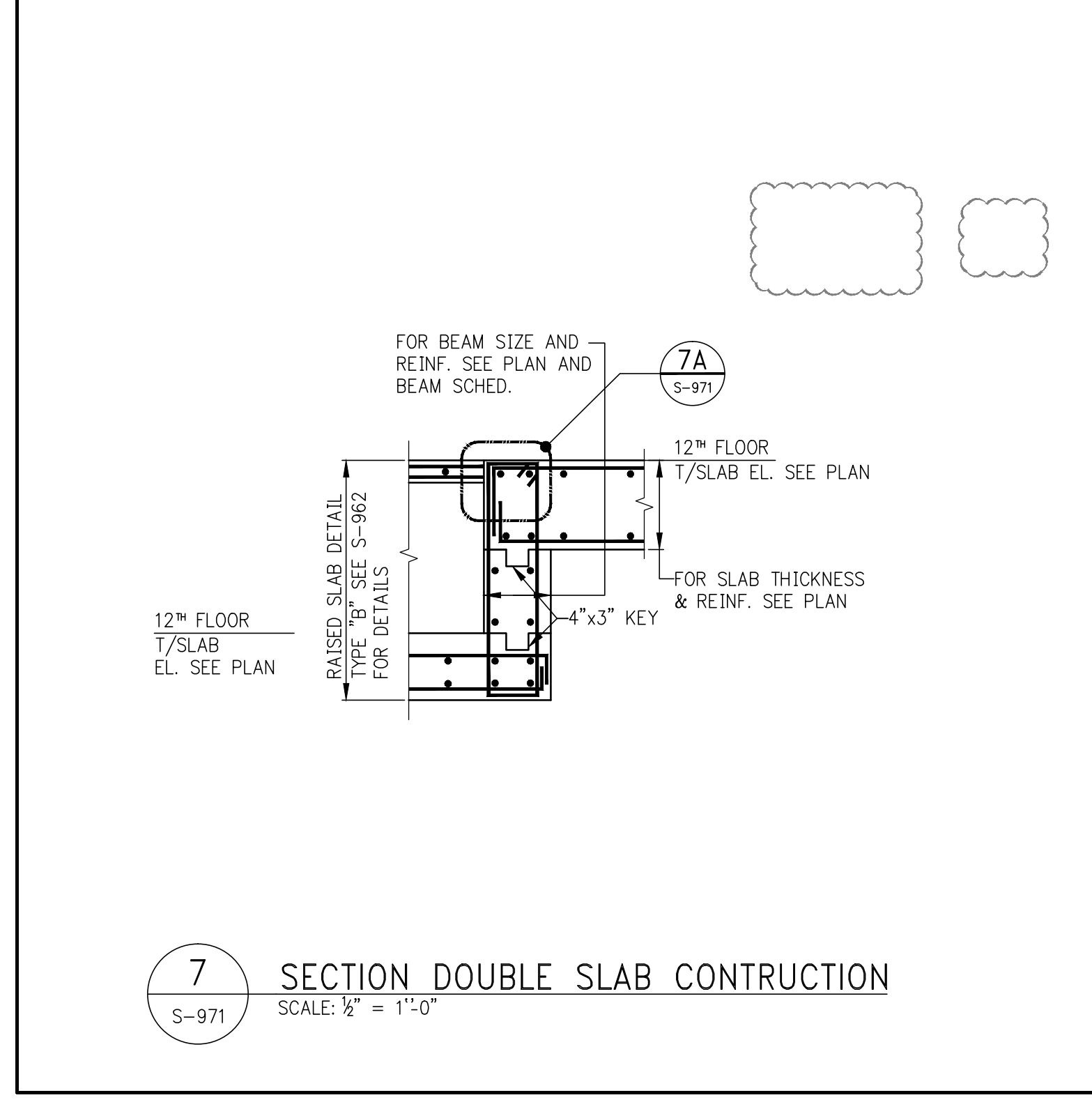
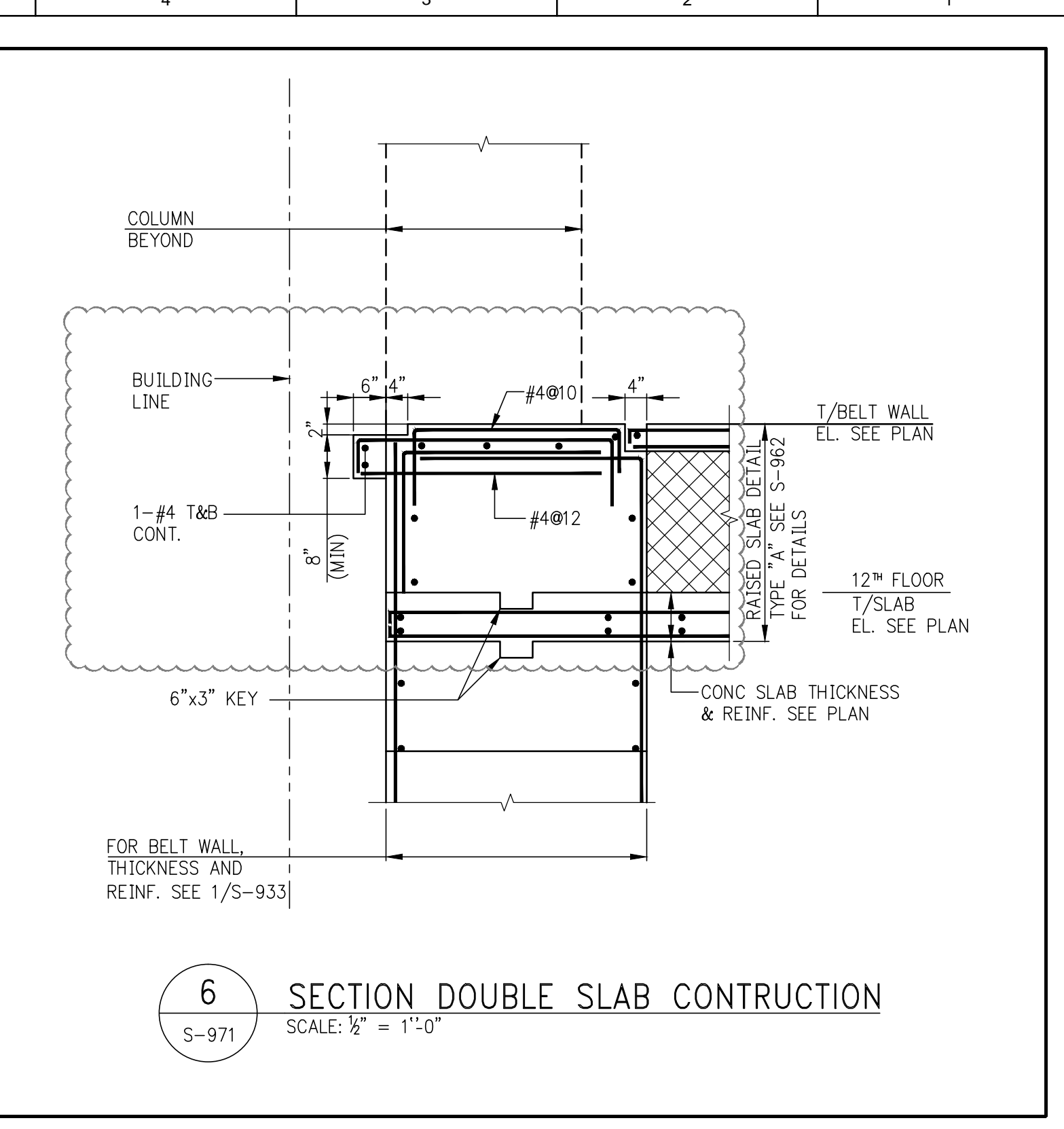
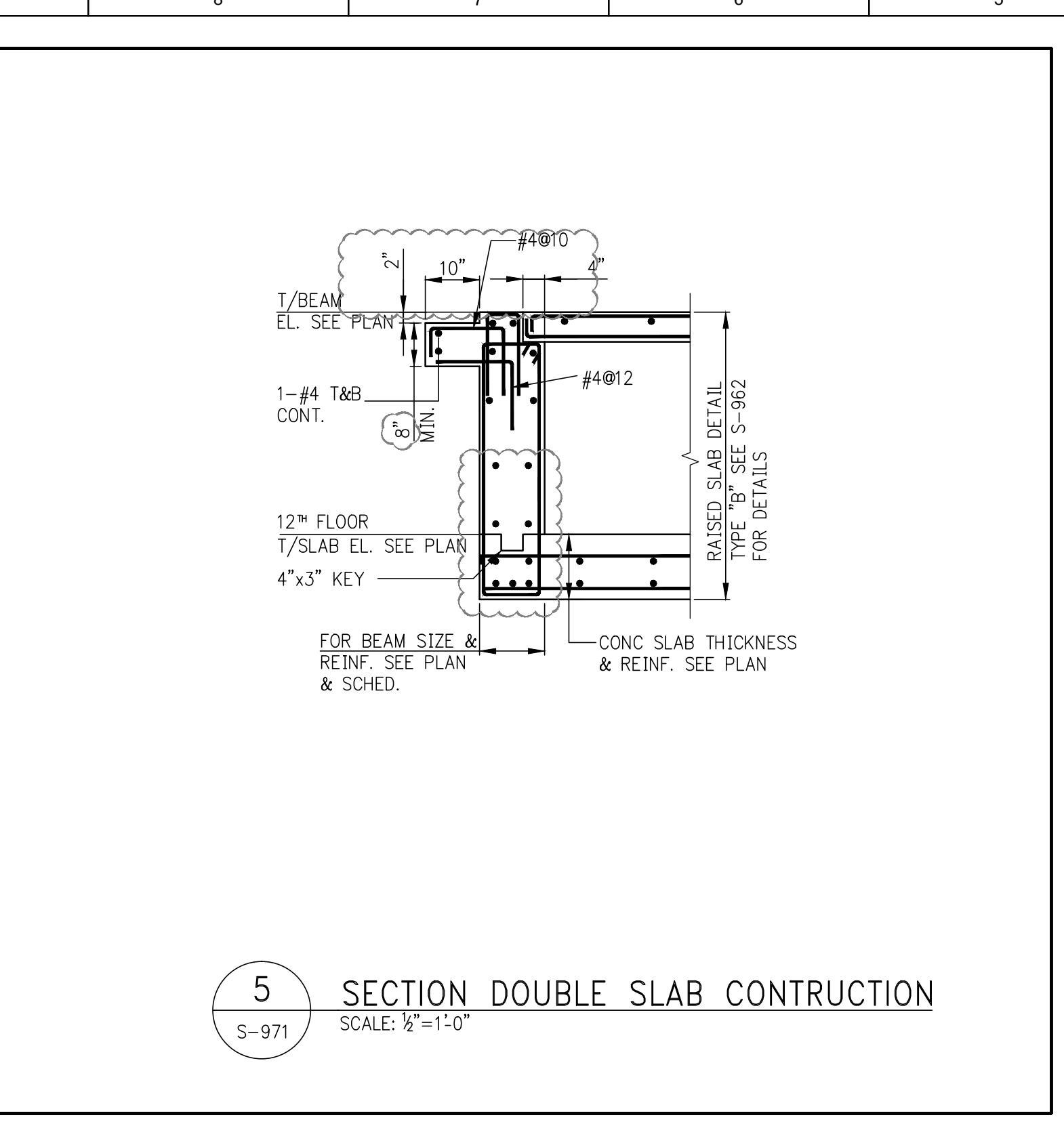
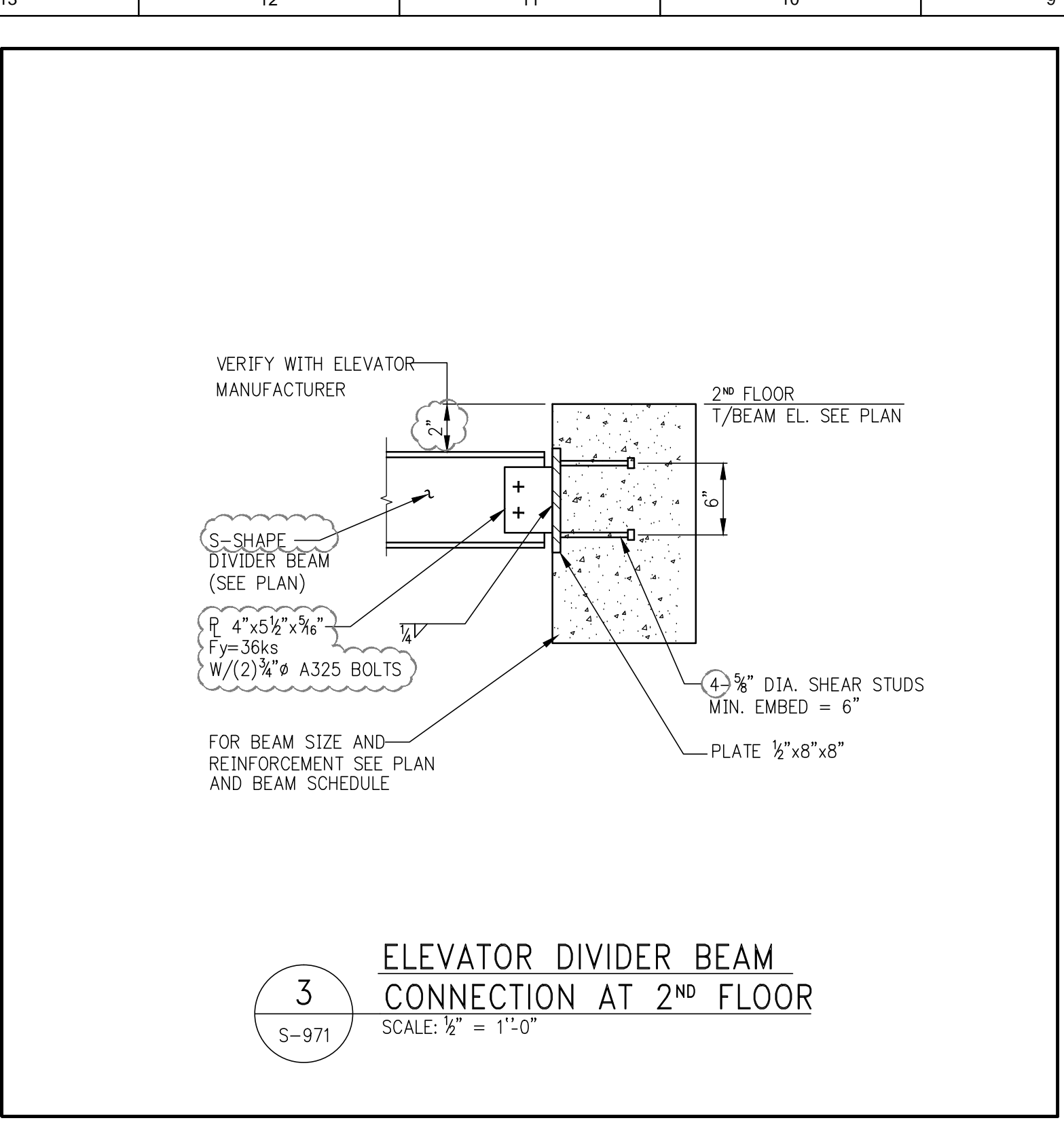
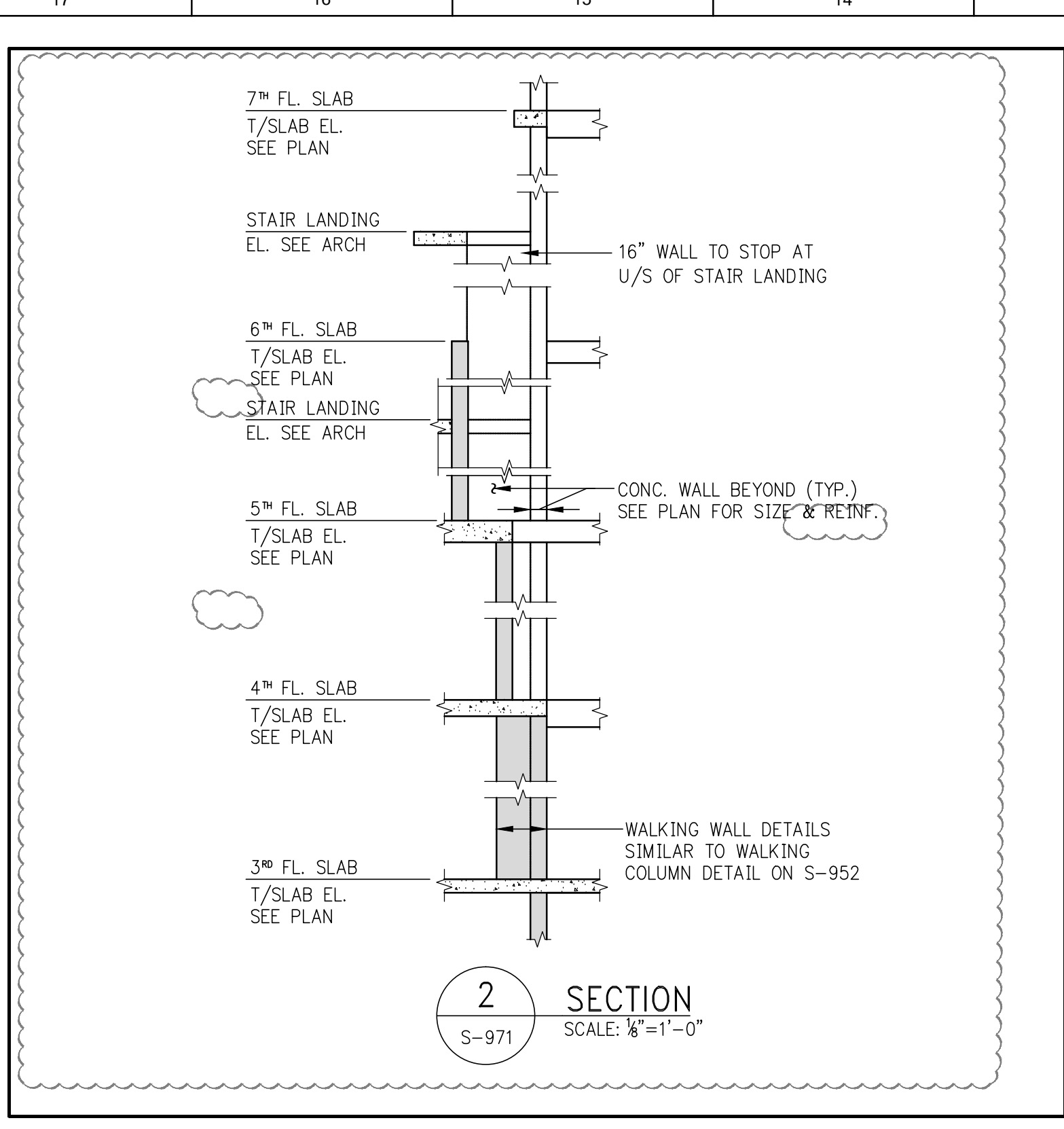
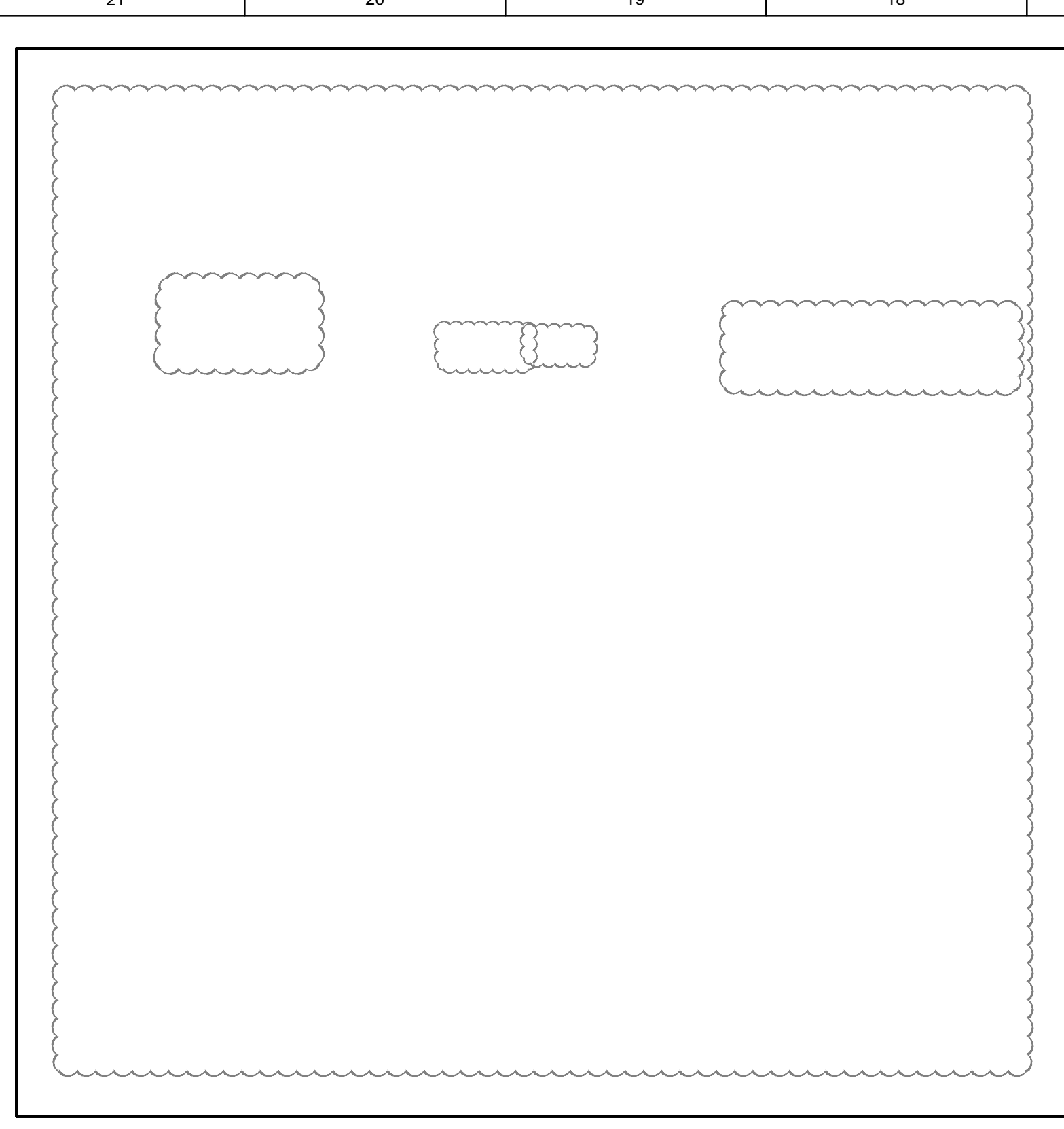


DATE OF PRINT
2016-01-26

DRAWING SCALE
PROJECT NUMBER
2012068

TITLE
SUPERSTRUCTURE SECTIONS 2

DRAWING NO.
S-971.01



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F: 212-269-5894

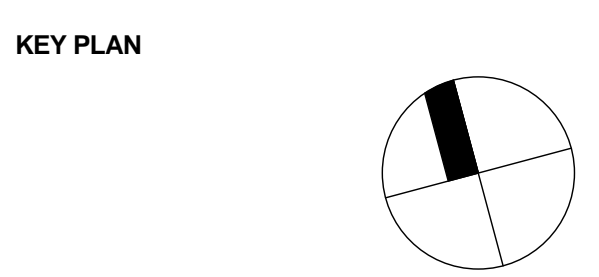
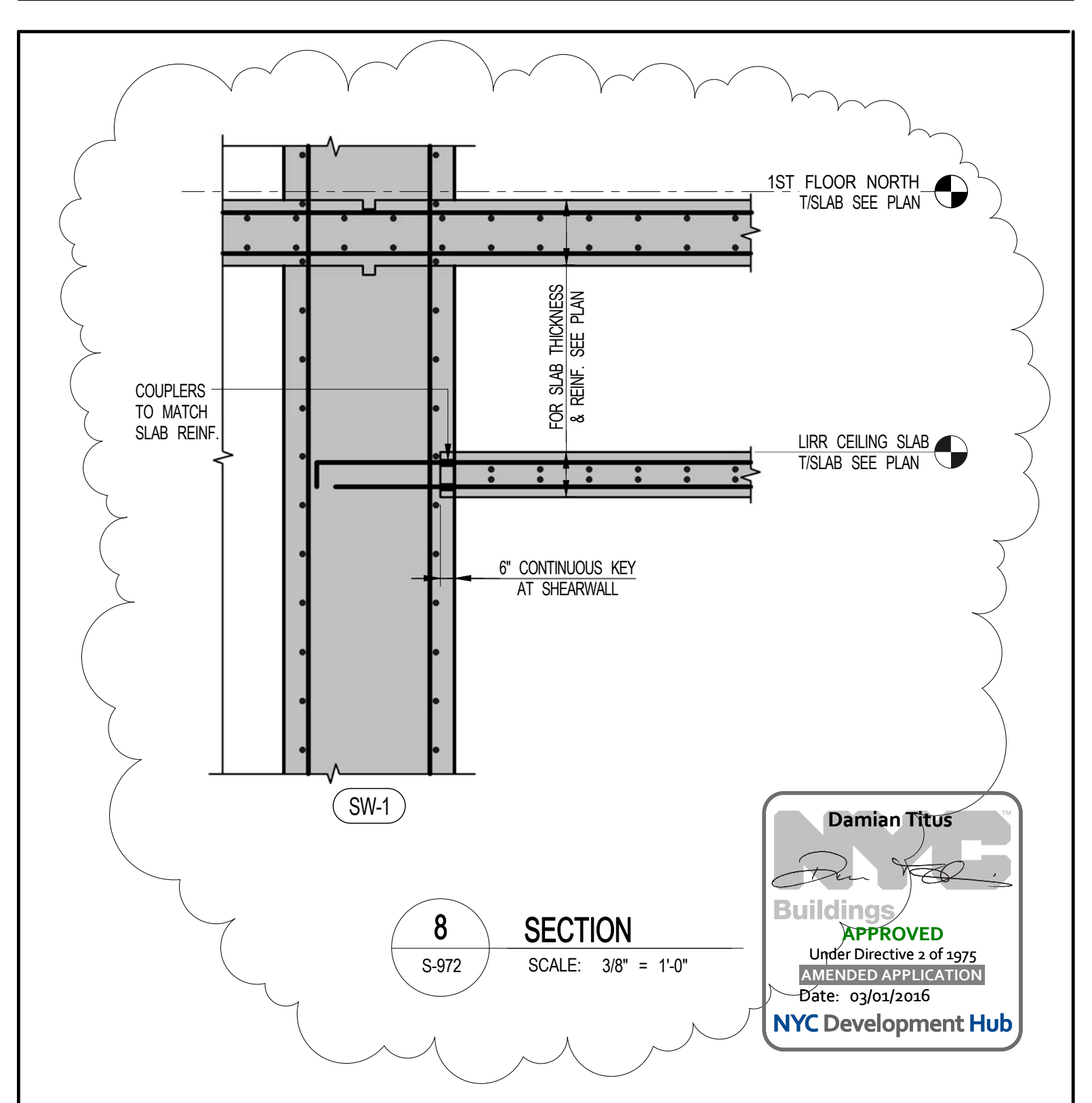
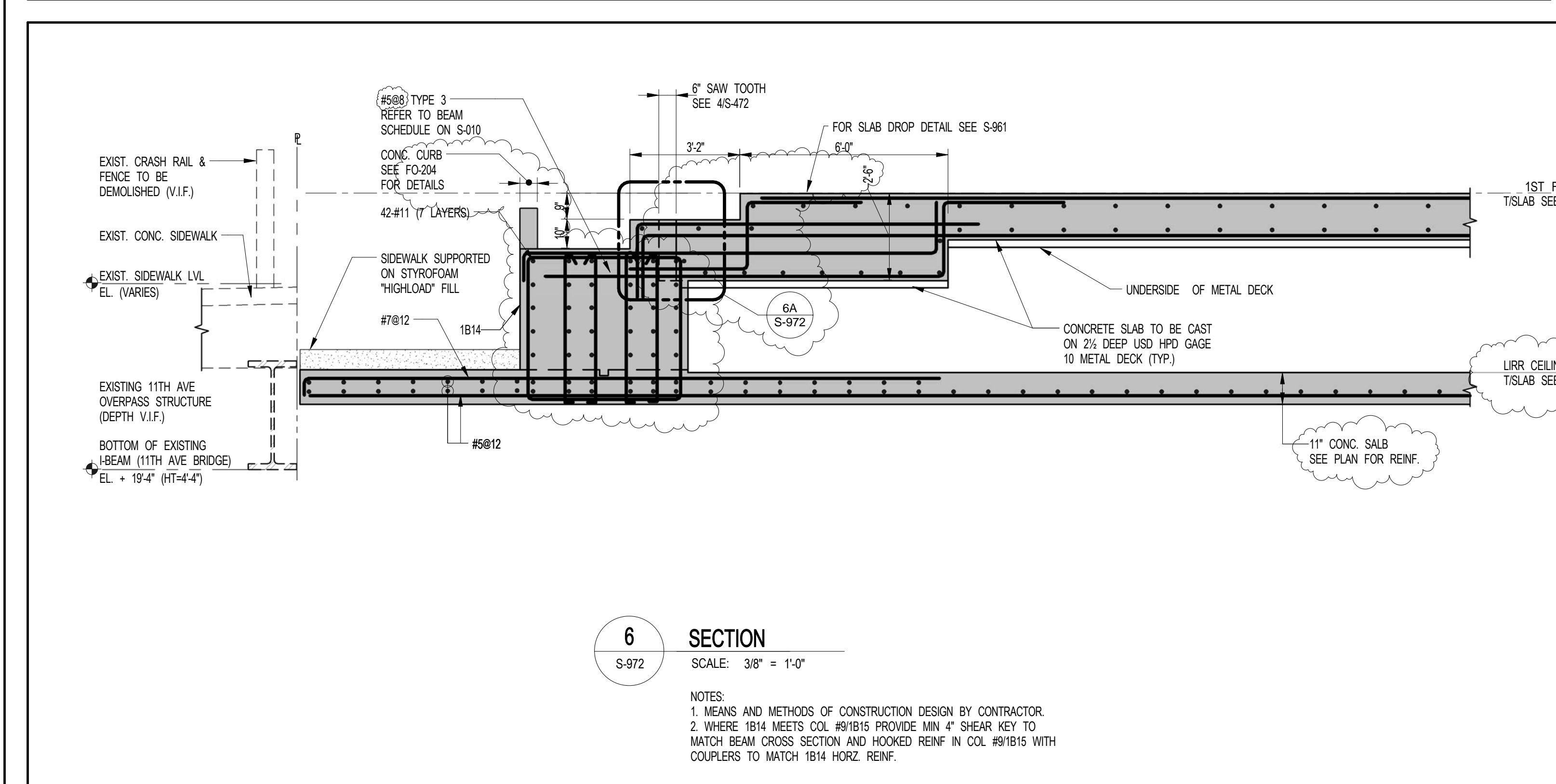
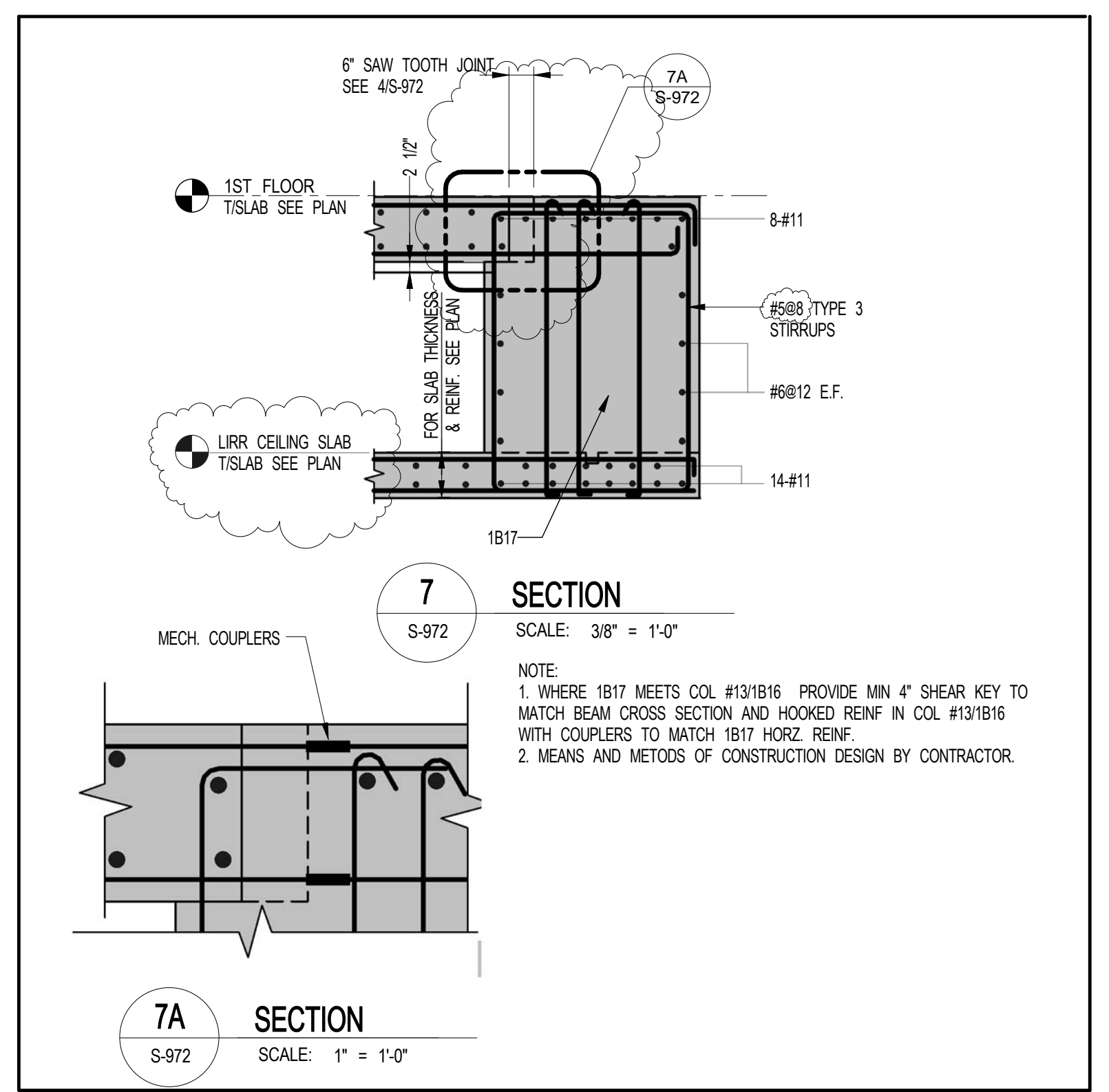
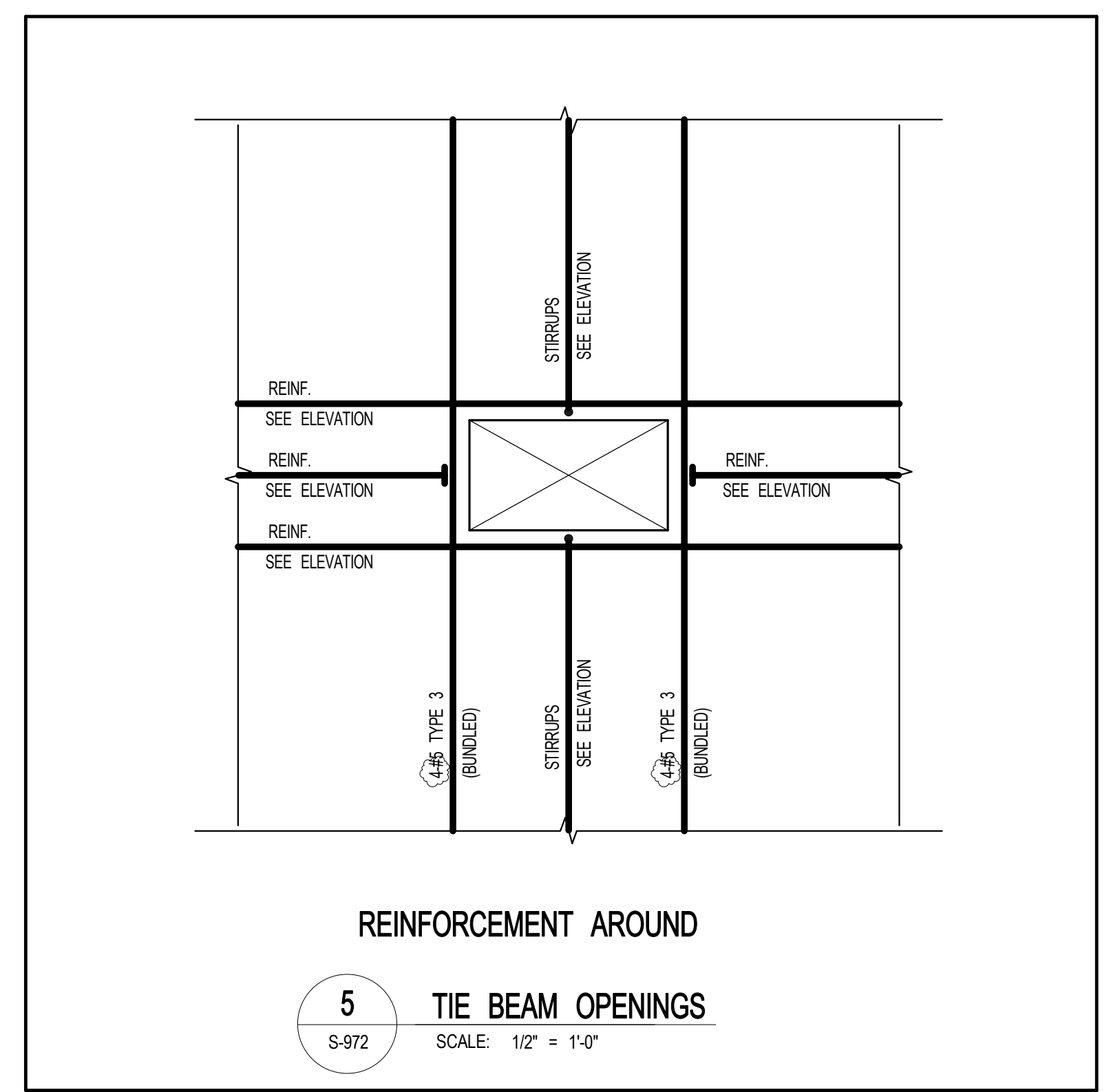
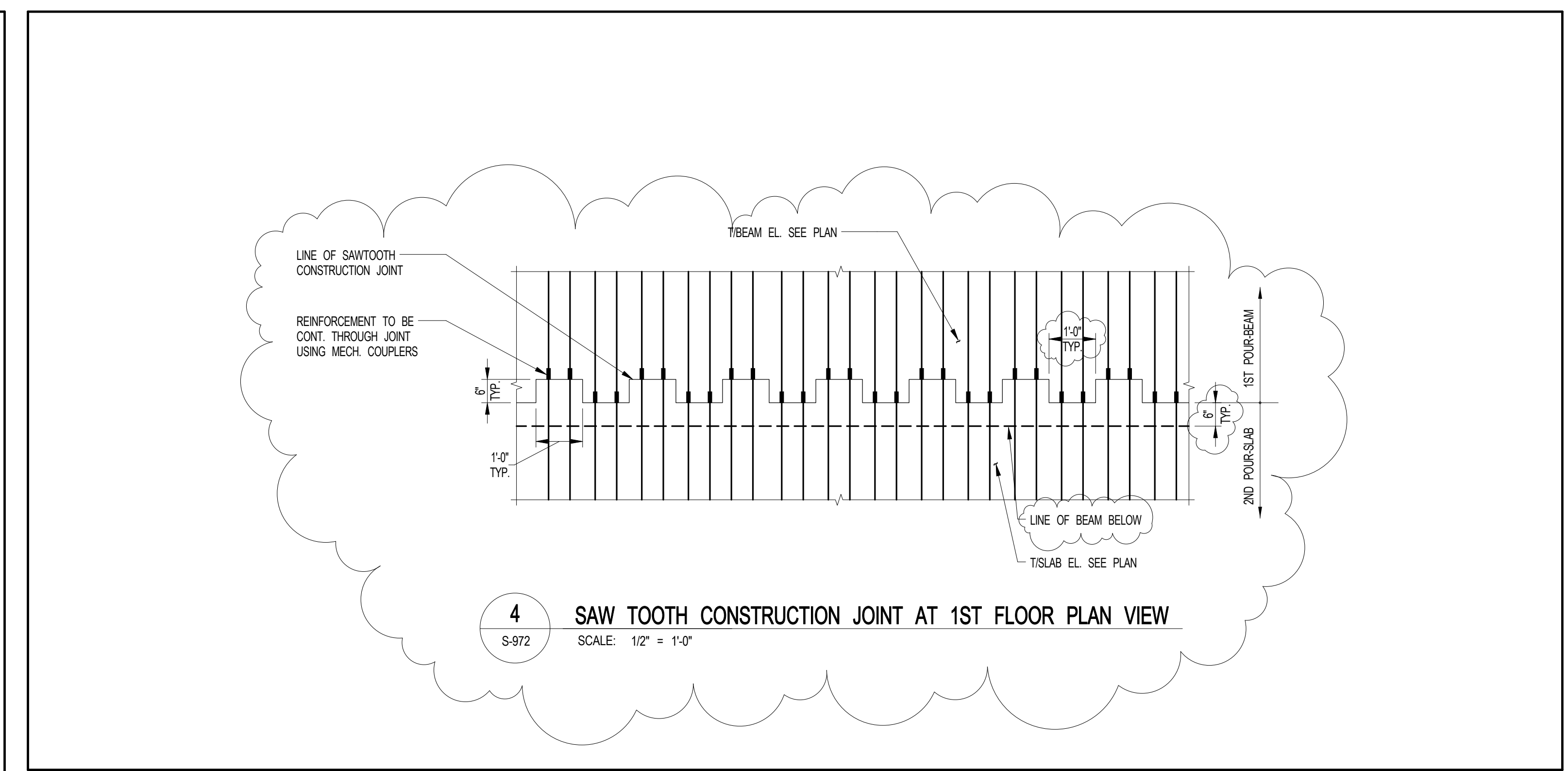
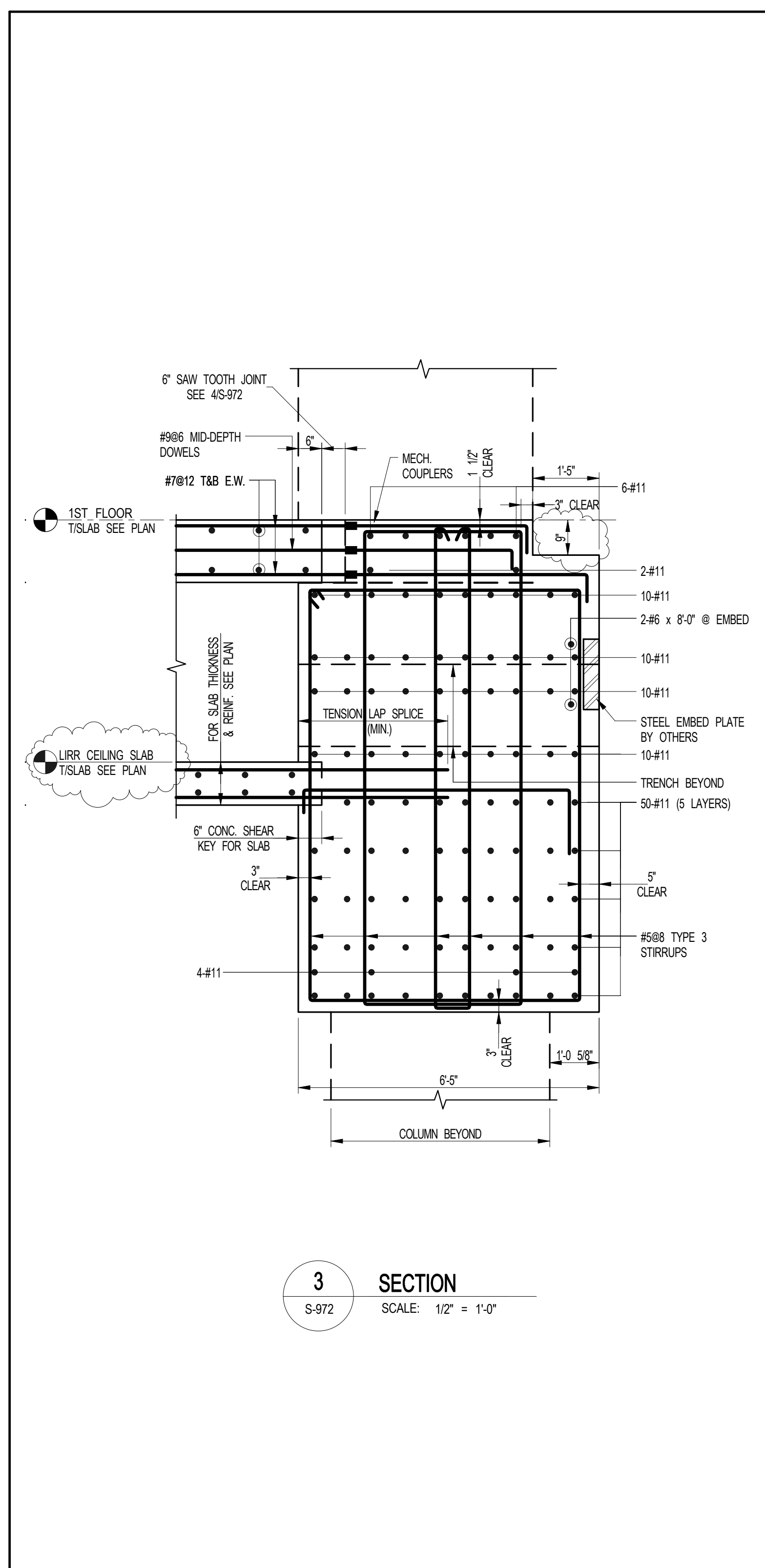
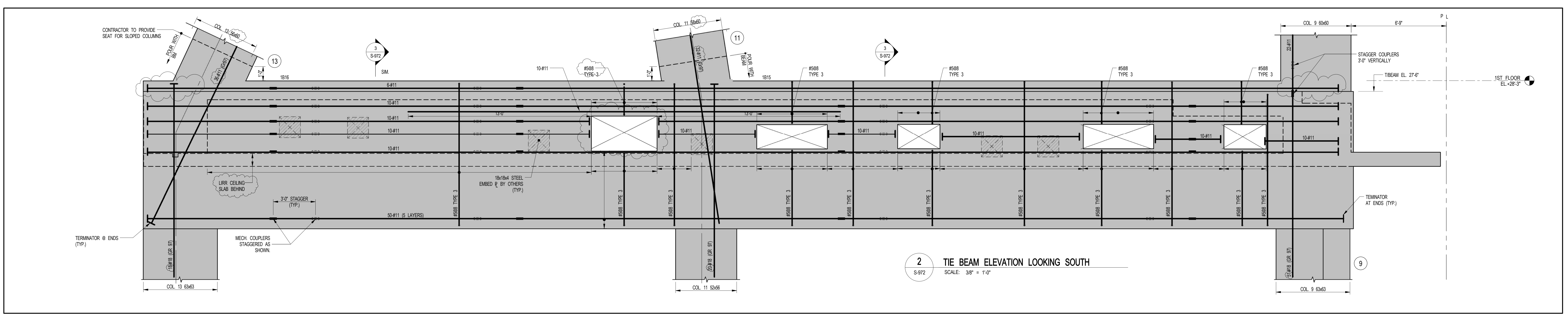
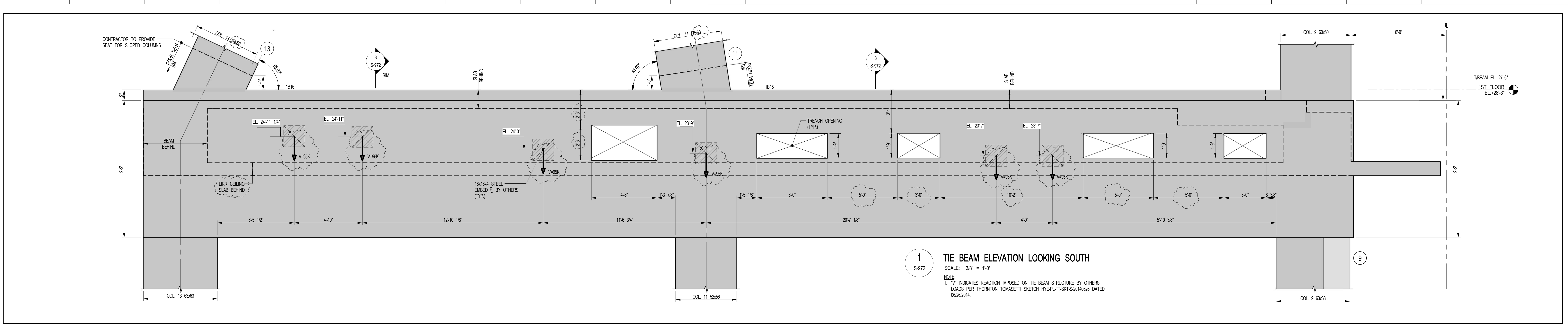
EXTERIOR WALL CONSULTANT:
Israel Berger & Associates
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T: 212-689-5398

VERTICAL TRANSPORTATION:
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LANDSCAPE DESIGNER:
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NO	ISSUE SET	REV DATE
1	70% CD	1 04-27-15
2	80% CD	2 07-02-15
3	90% PARTIAL CD ISSUE - FLOORS	3 09-03-15
4	90% CD	4 11-24-15
5	90% CD	5 01-26-16
6	PAA #2	
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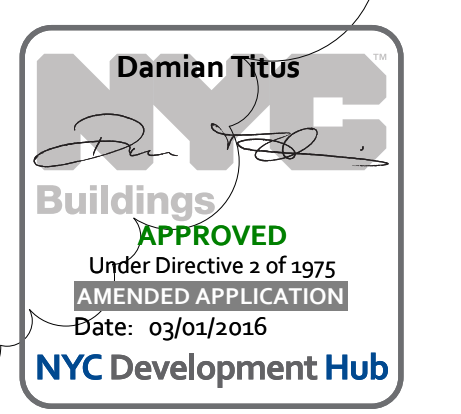
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DRAWING SCALE
As indicated

PROJECT NUMBER

TITLE
SUPERSTRUCTURE SECTIONS 3

DRAWING NO.
S-972.01



OWNER:
Related Companies
65 Columbus Circle
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EXECUTIVE ARCHITECT:
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MEP ENGINEER:
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80 Pine Street
New York, NY 10005
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F: 212.269.5894

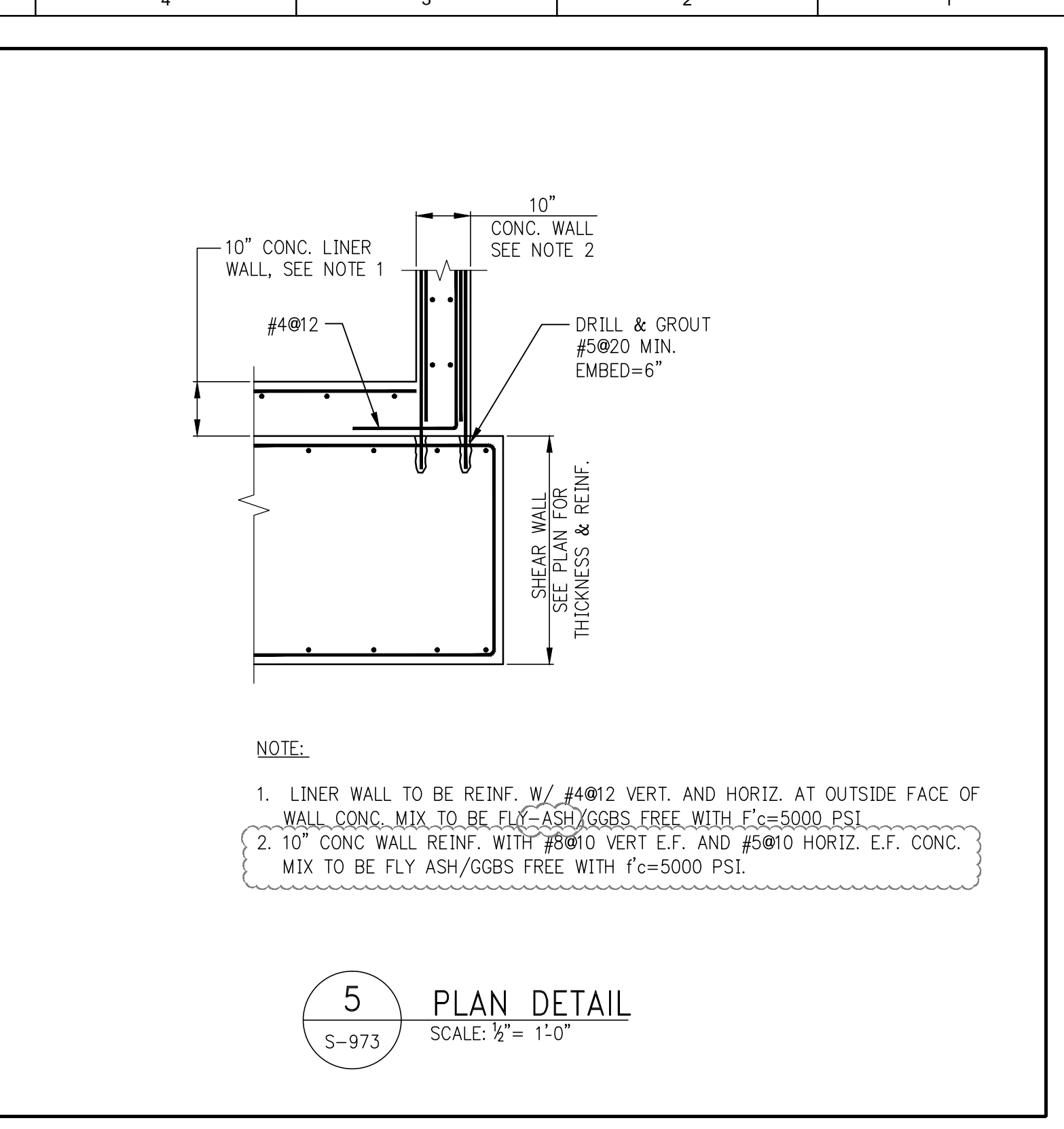
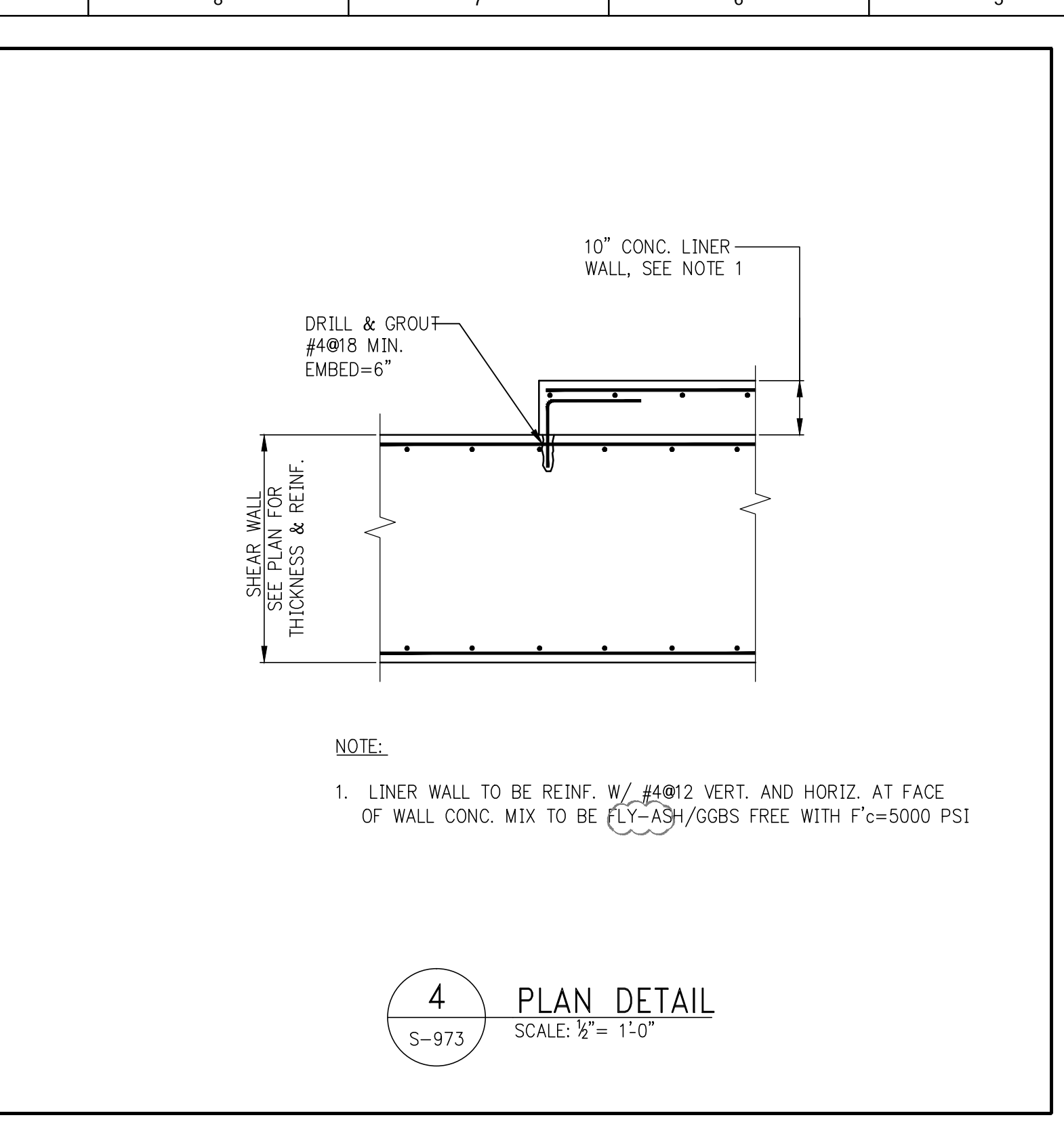
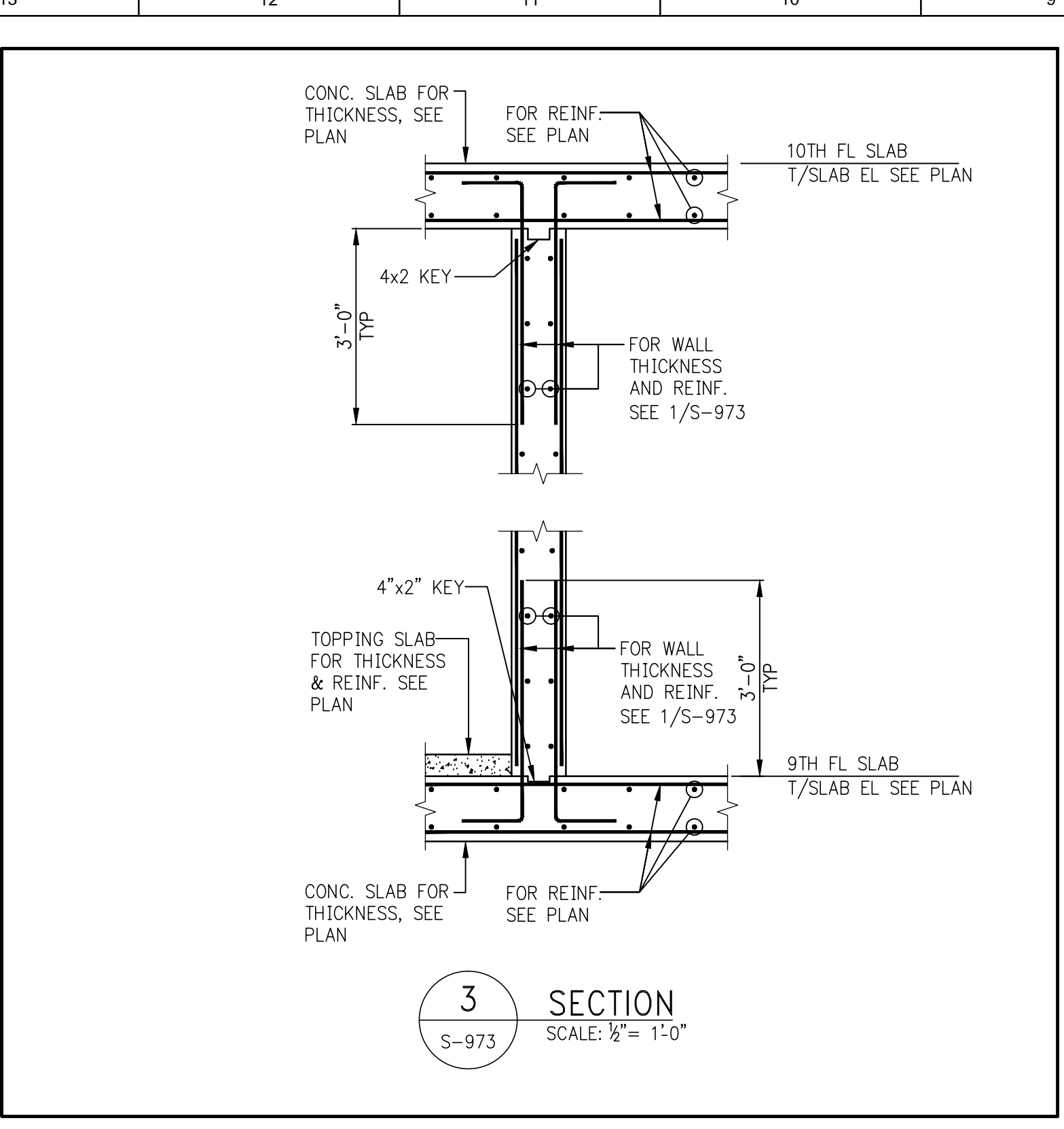
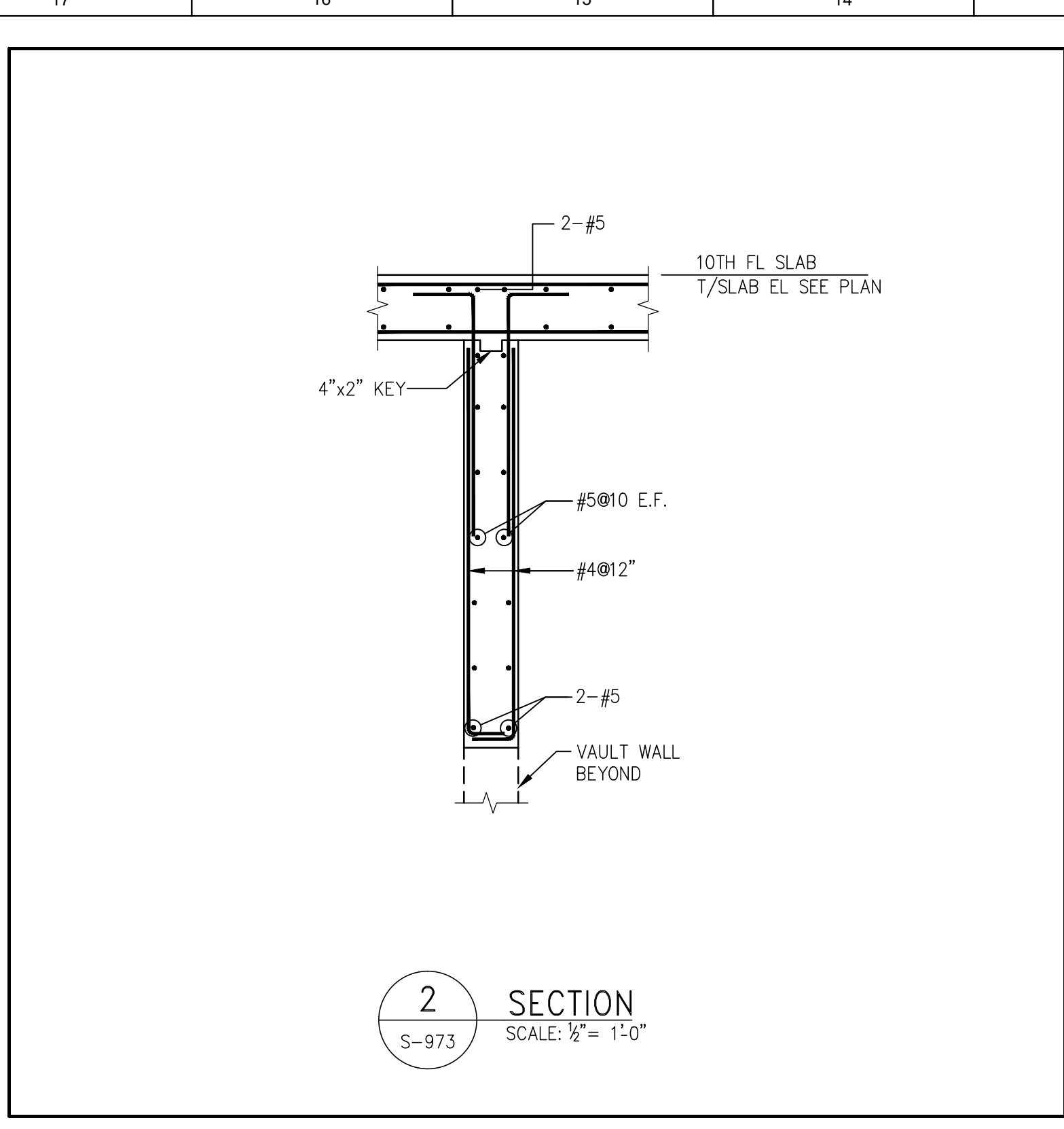
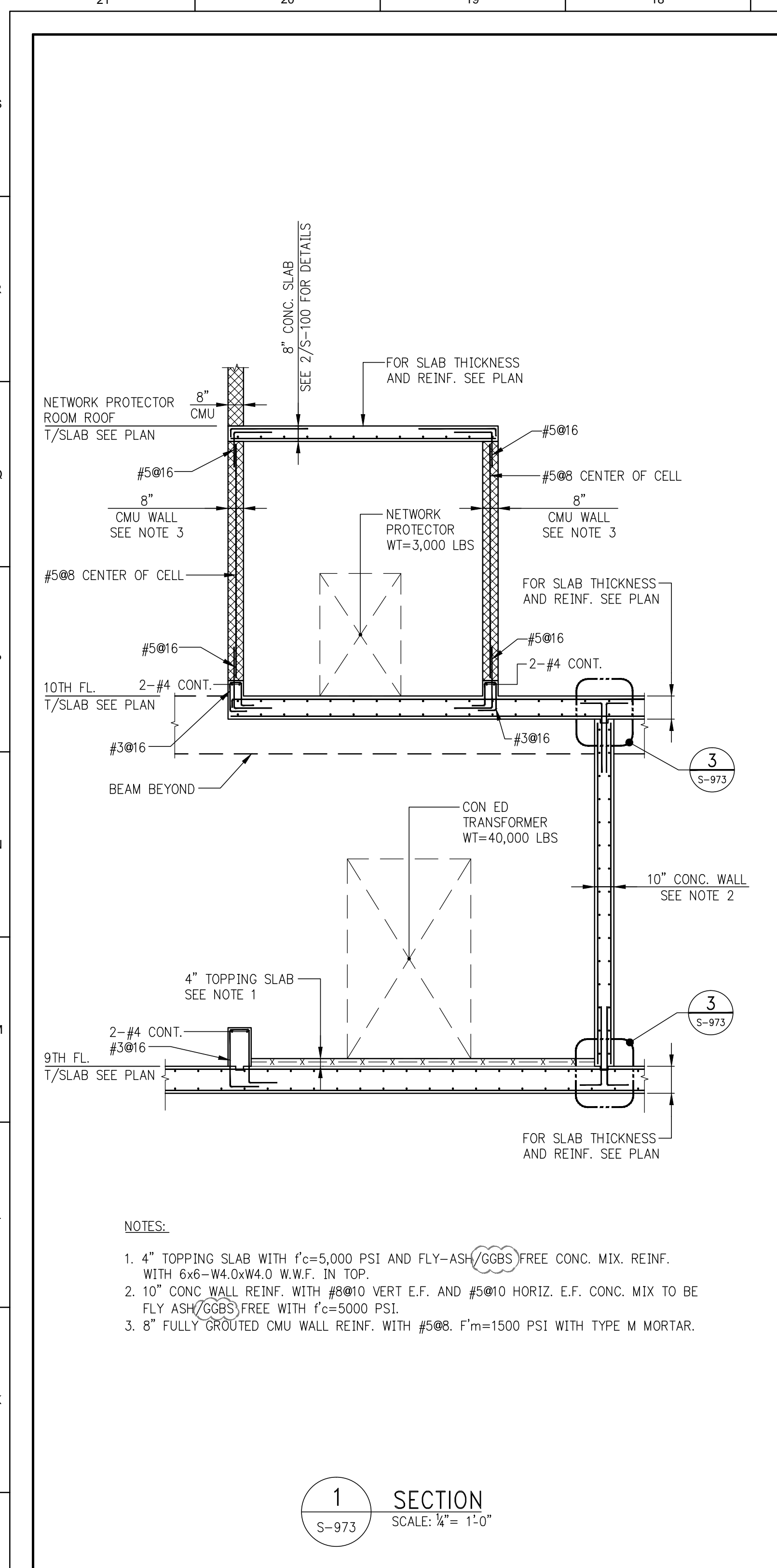
EXTERIOR WALL CONSULTANT:
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SHEET NOTES:

NO	ISSUE SET	REV	DATE
	SUPERSTRUCTURE EARLY BID SET		11-17-14
	DESIGN DEVELOPMENT SET		12-22-14
	NYCT SUBMISSION		12-23-14
	LIMITED DOB SET		03-20-15
	70% CD		04-27-15
	85% CD		07-02-15
	85% CD		11-24-15
	PAA #2		01-26-16

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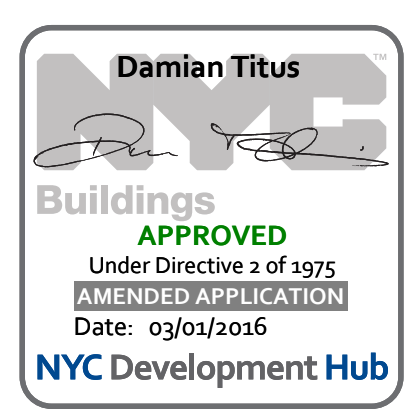
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2016-01-26

DRAWING SCALE

PROJECT NUMBER
2012068

TITLE
SUPERSTRUCTURE SECTIONS 4

DRAWING NO.
S-973.01



OWNER:
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EXTERIOR WALL CONSULTANT:
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T: 212.370.1776

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T: 212.260.2270

SHEET NOTES:

NO	ISSUE SET	REV	DATE
70%	CD	04	27-15
80%	CD	07	02-16
90%	PARTIAL CD ISSUE -	09	03-15
FLOORS	SC-12		
100%	CD	11	24-15
PAA #2		01	26-16



STAMP

DATE OF PRINT
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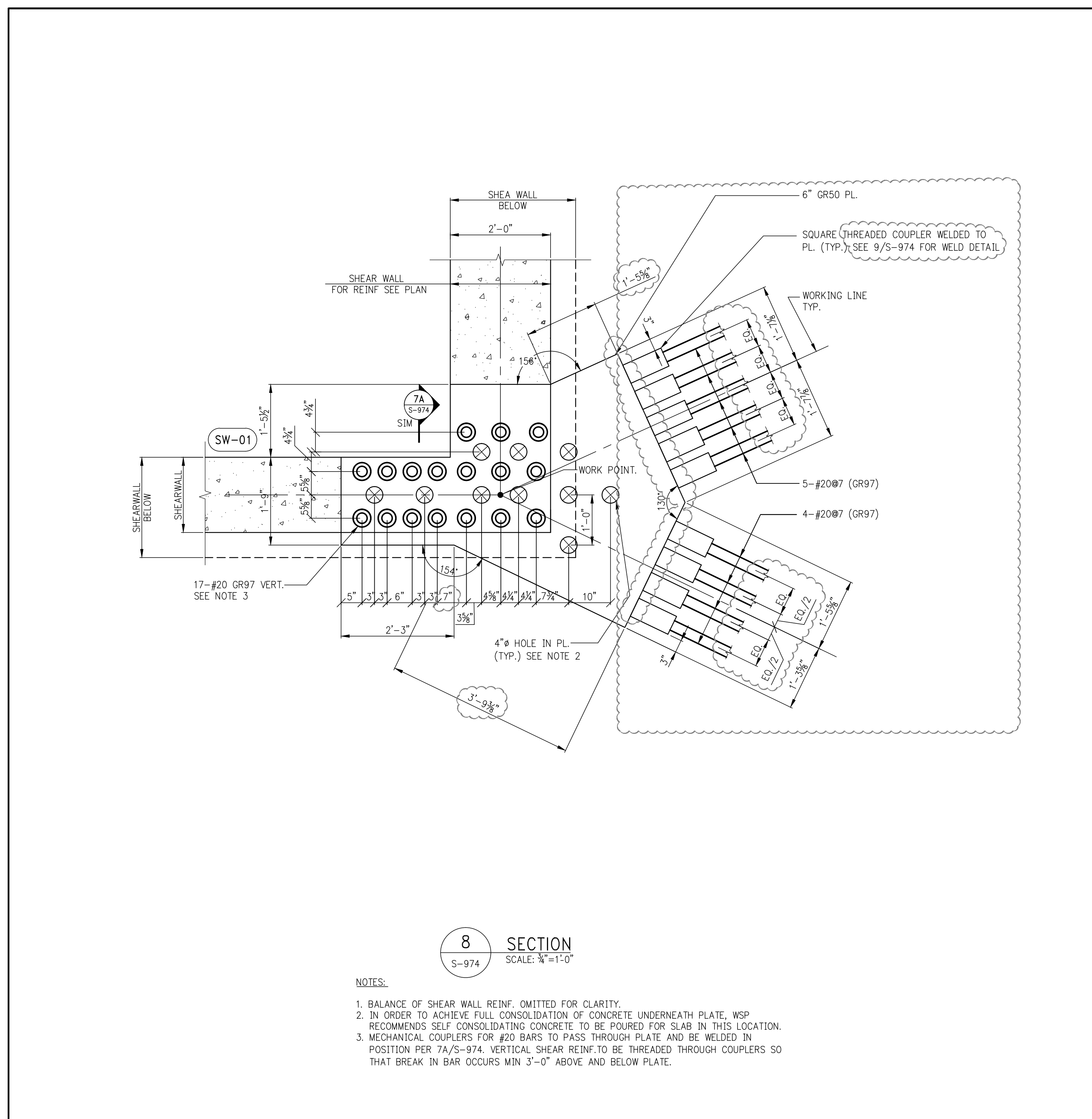
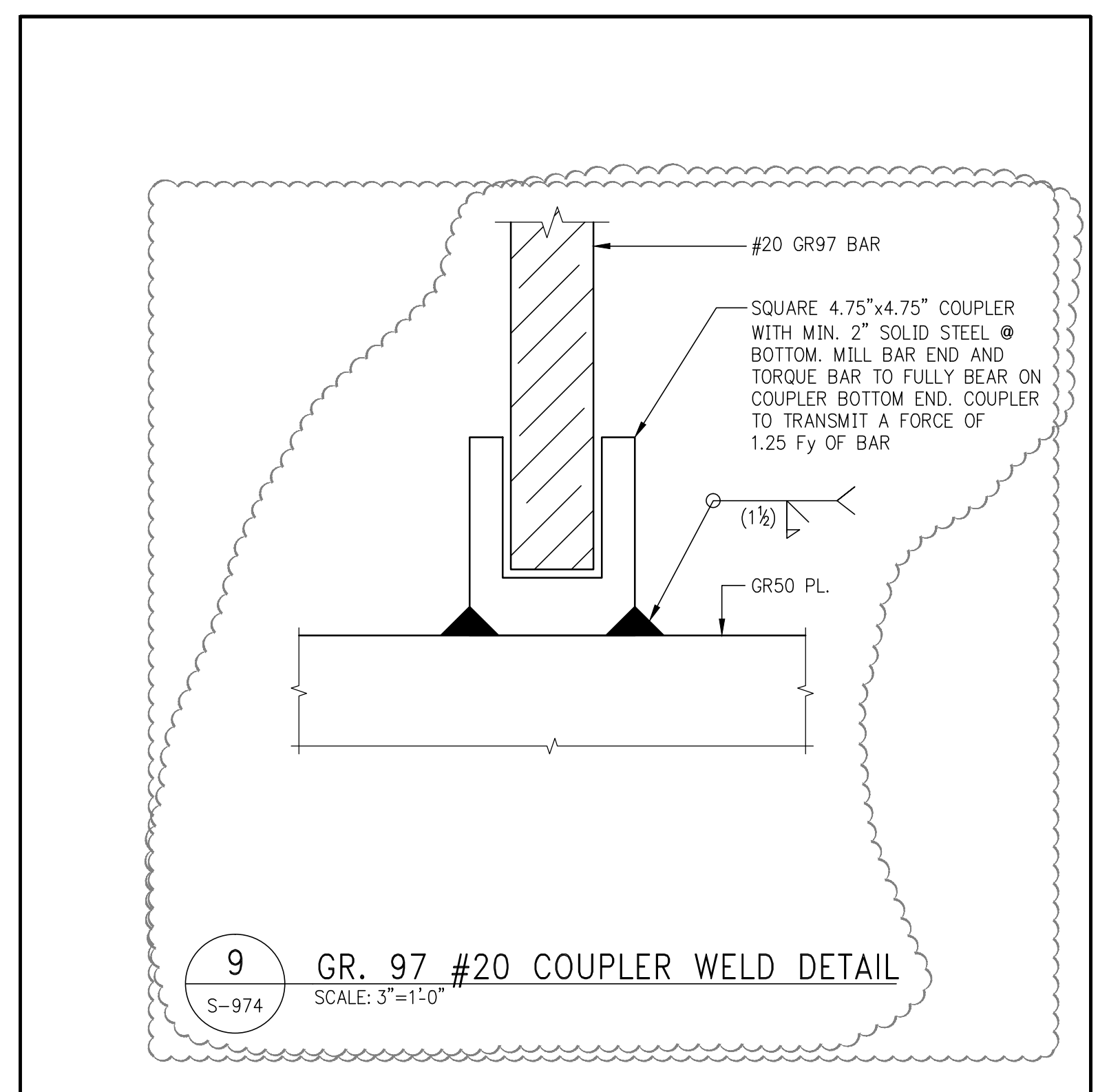
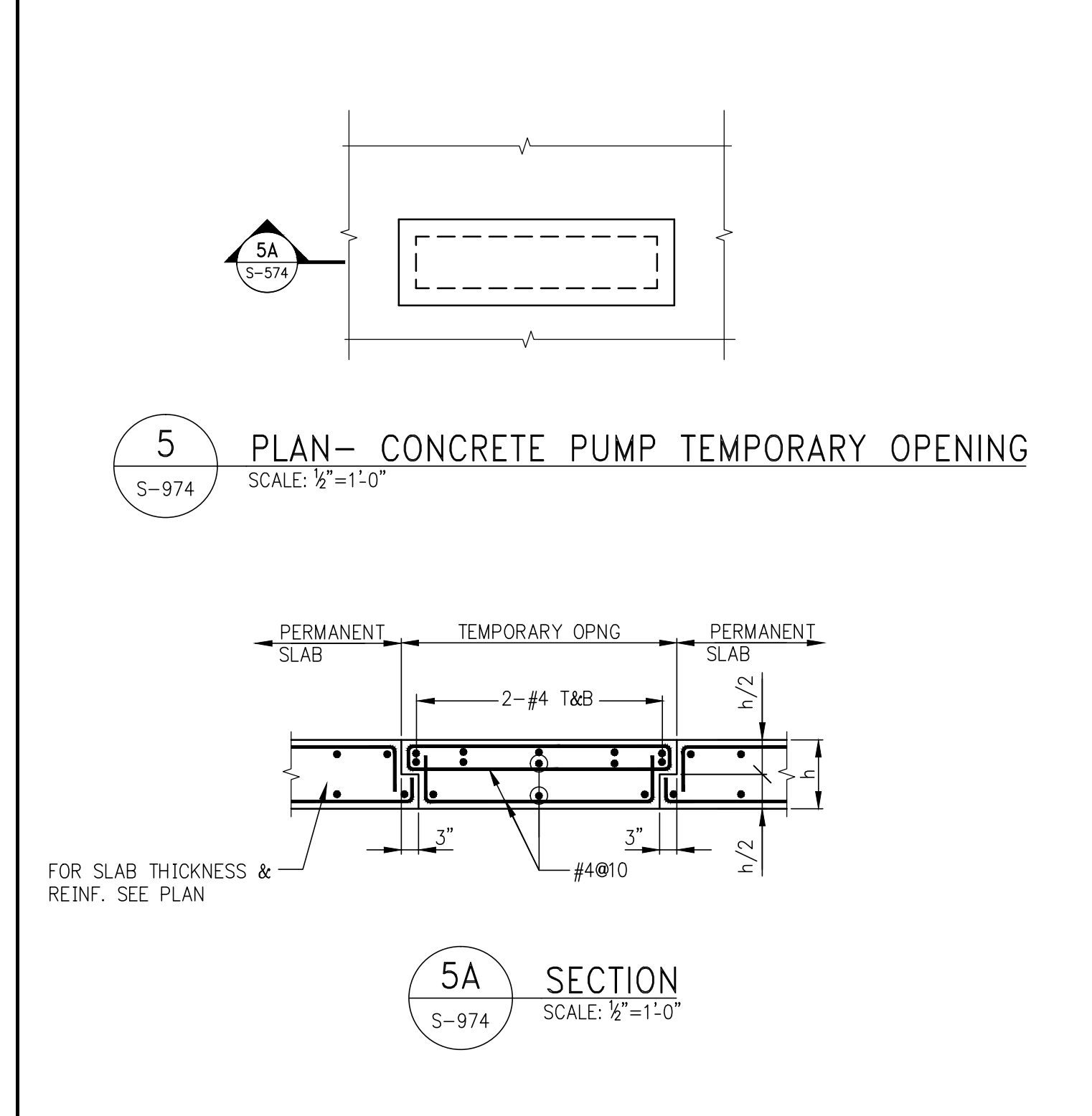
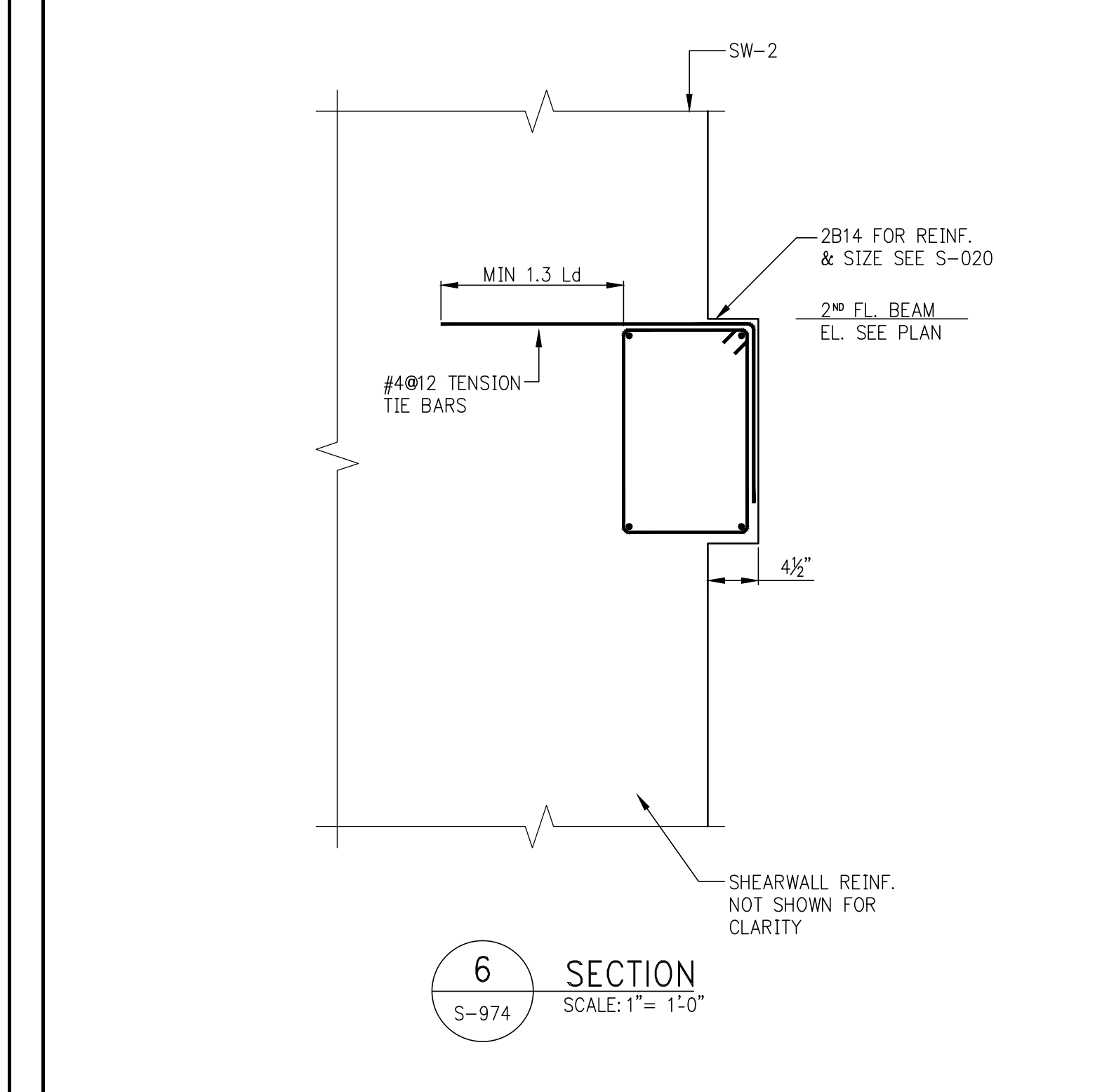
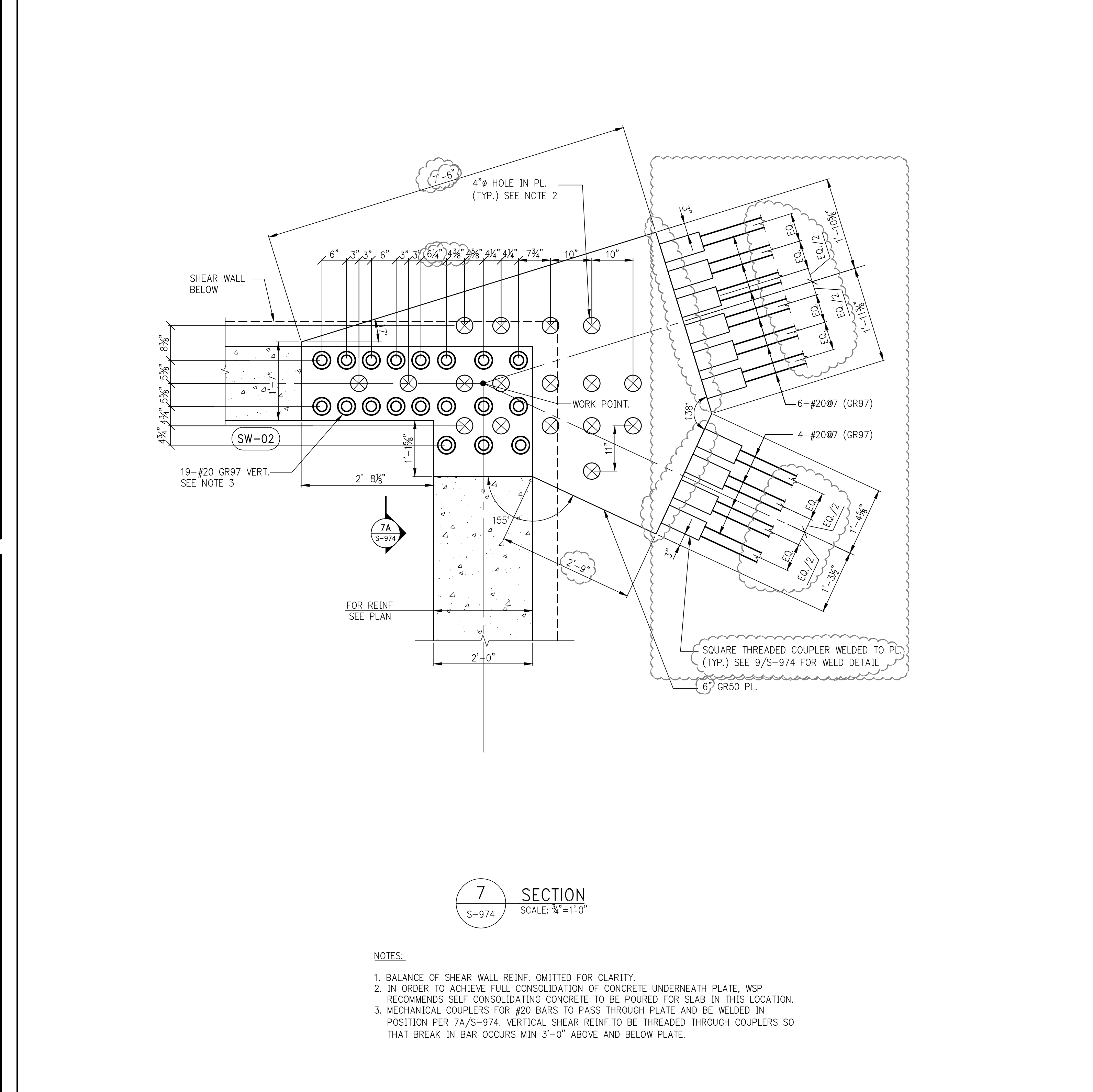
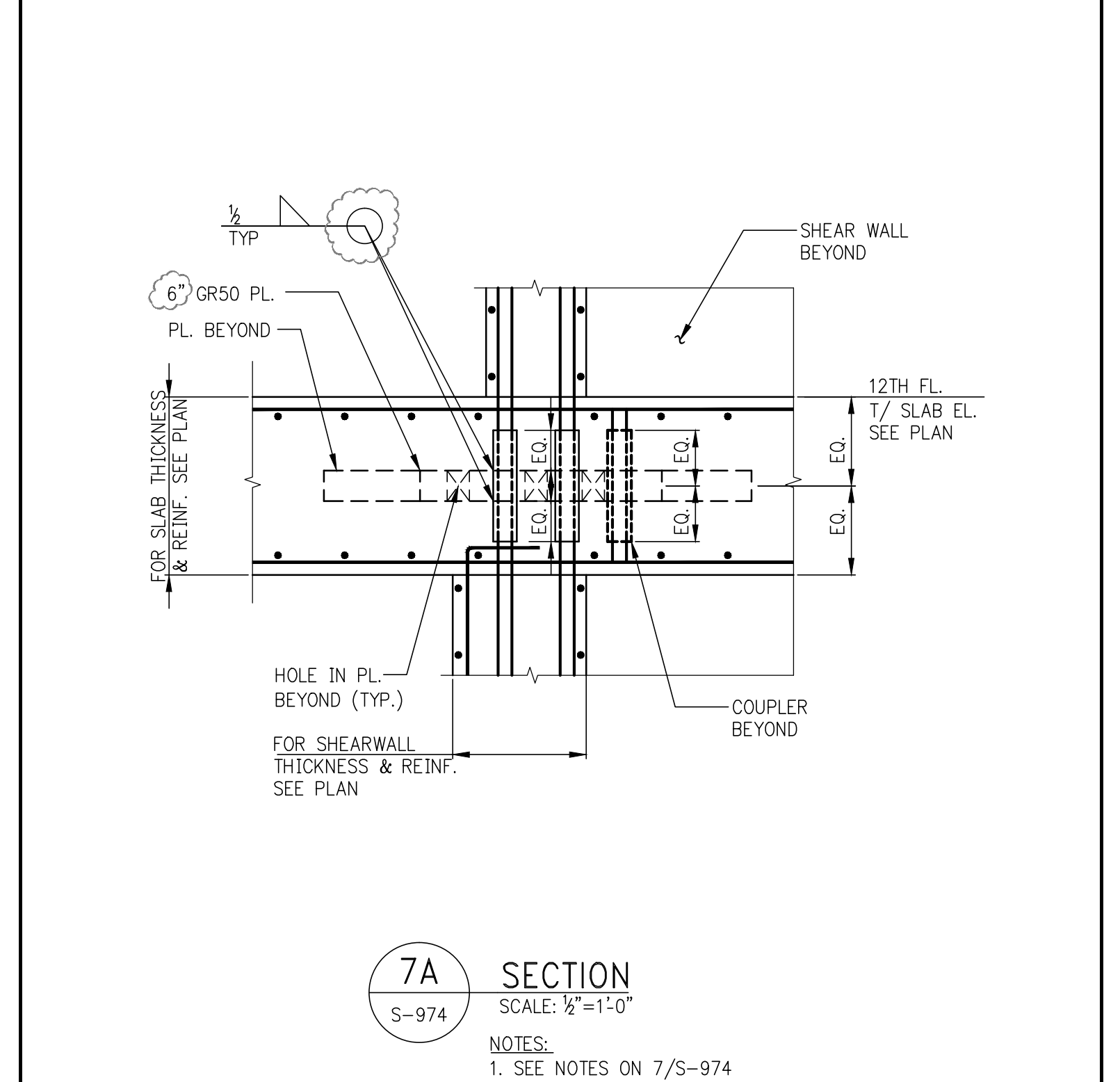
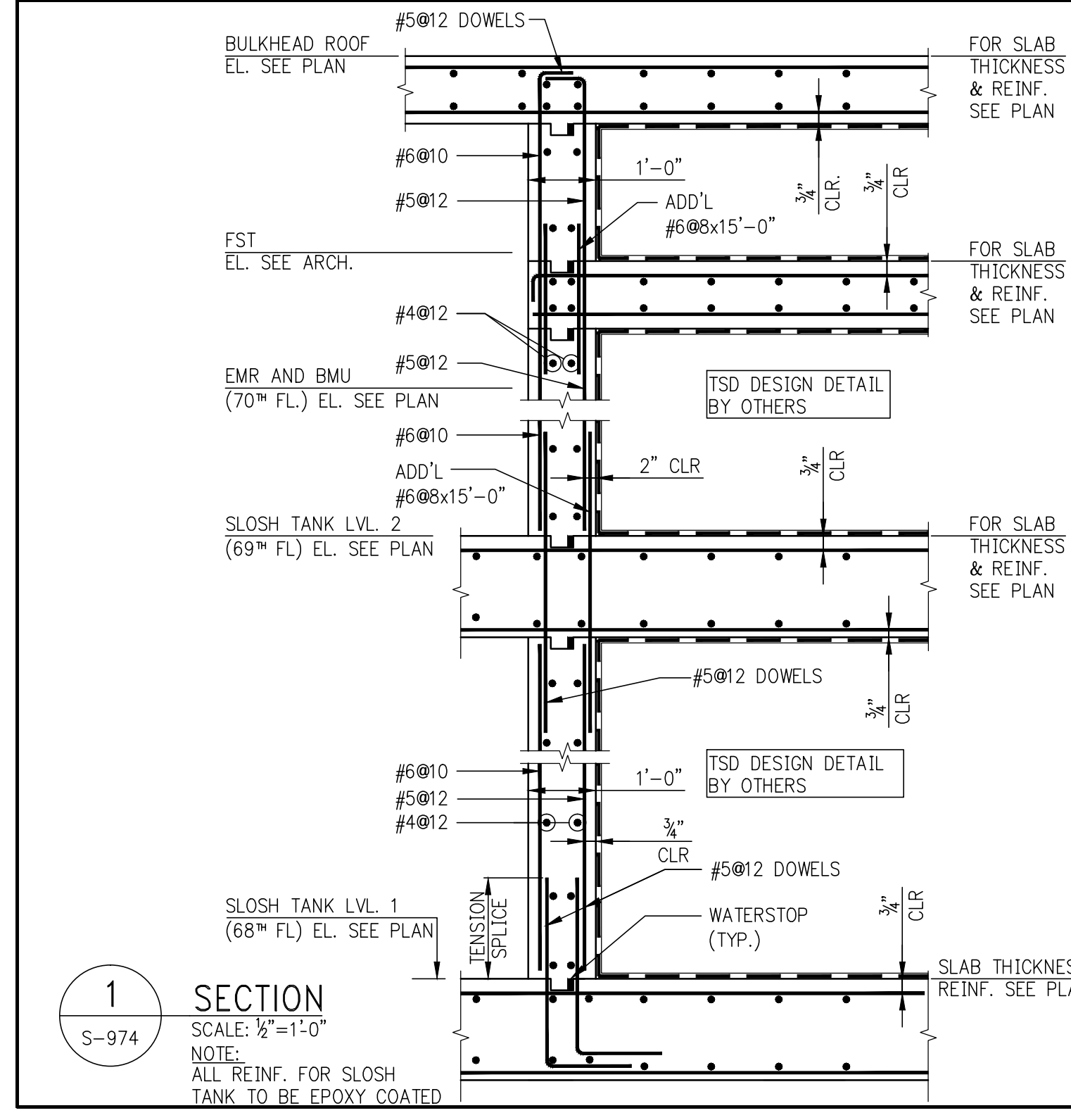
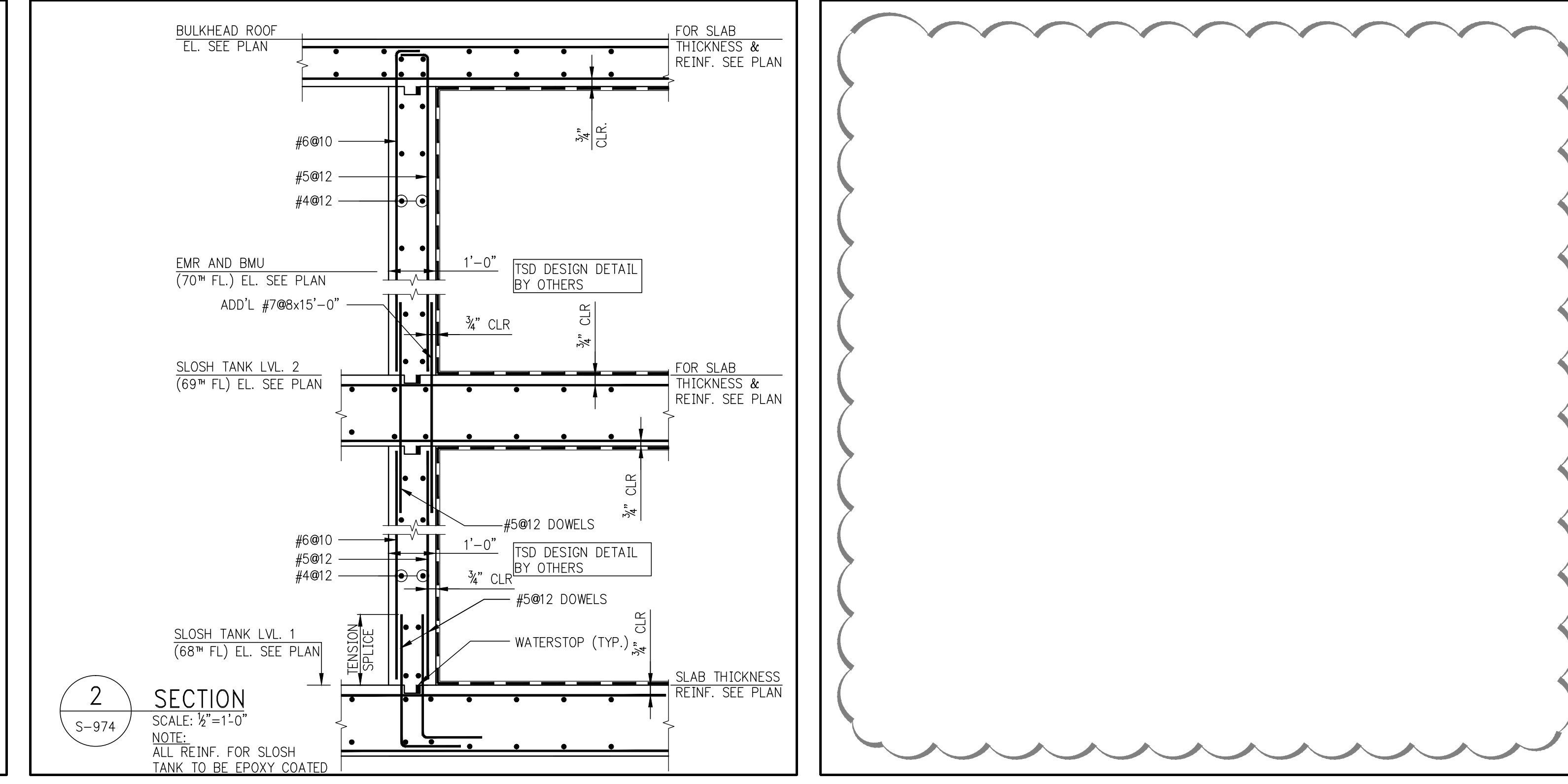
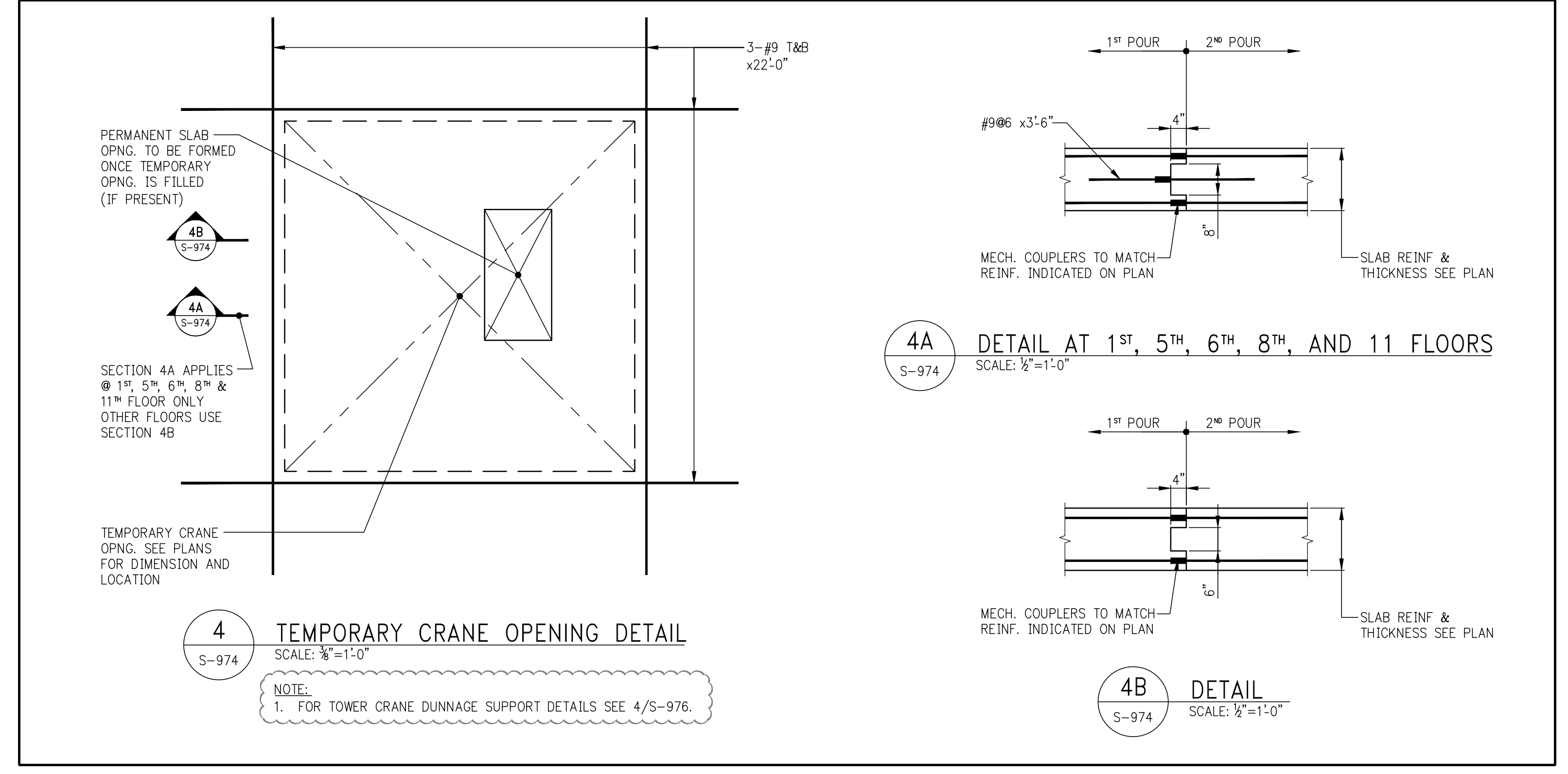
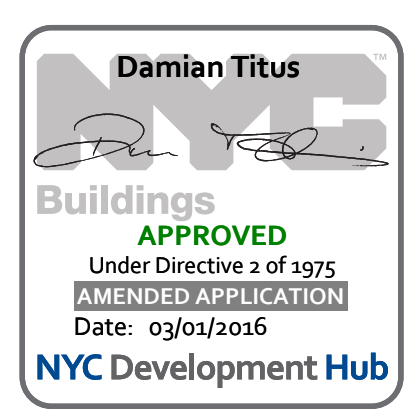
PROJECT NUMBER
2012068

TITLE

SUPERSTRUCTURE SECTIONS 5

DRAWING NO.

S-974.01



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60 Columbus Circle
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MEP ENGINEER:
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80 Pine Street
New York, NY 10005
T: 212-530-9000
F: 212-269-5894

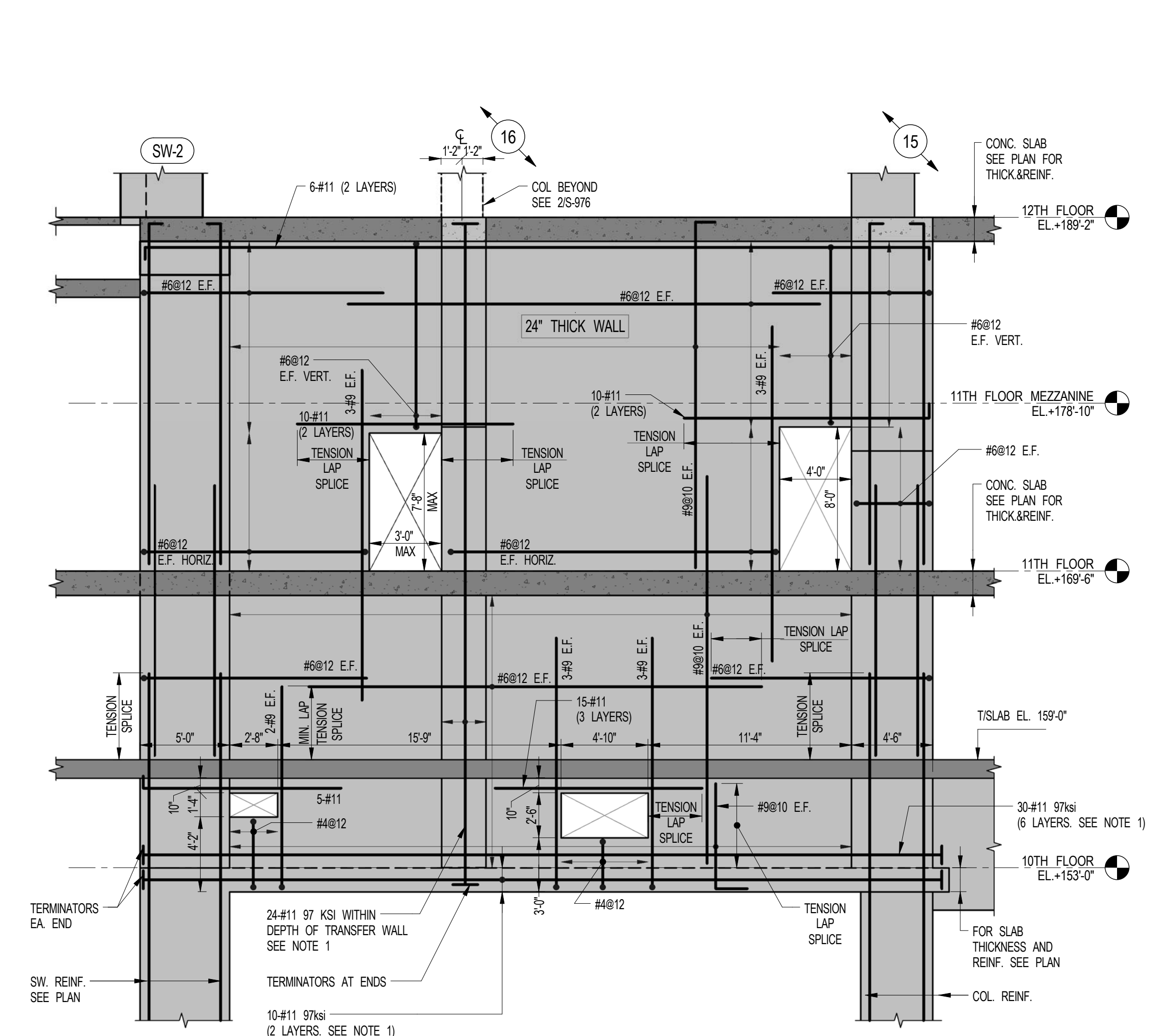
EXTERIOR WALL CONSULTANT:
Israel Berger & Associates
360 Park Avenue South, 15th Floor
New York, NY 10010
T: 212-689-5398

VERTICAL TRANSPORTATION:
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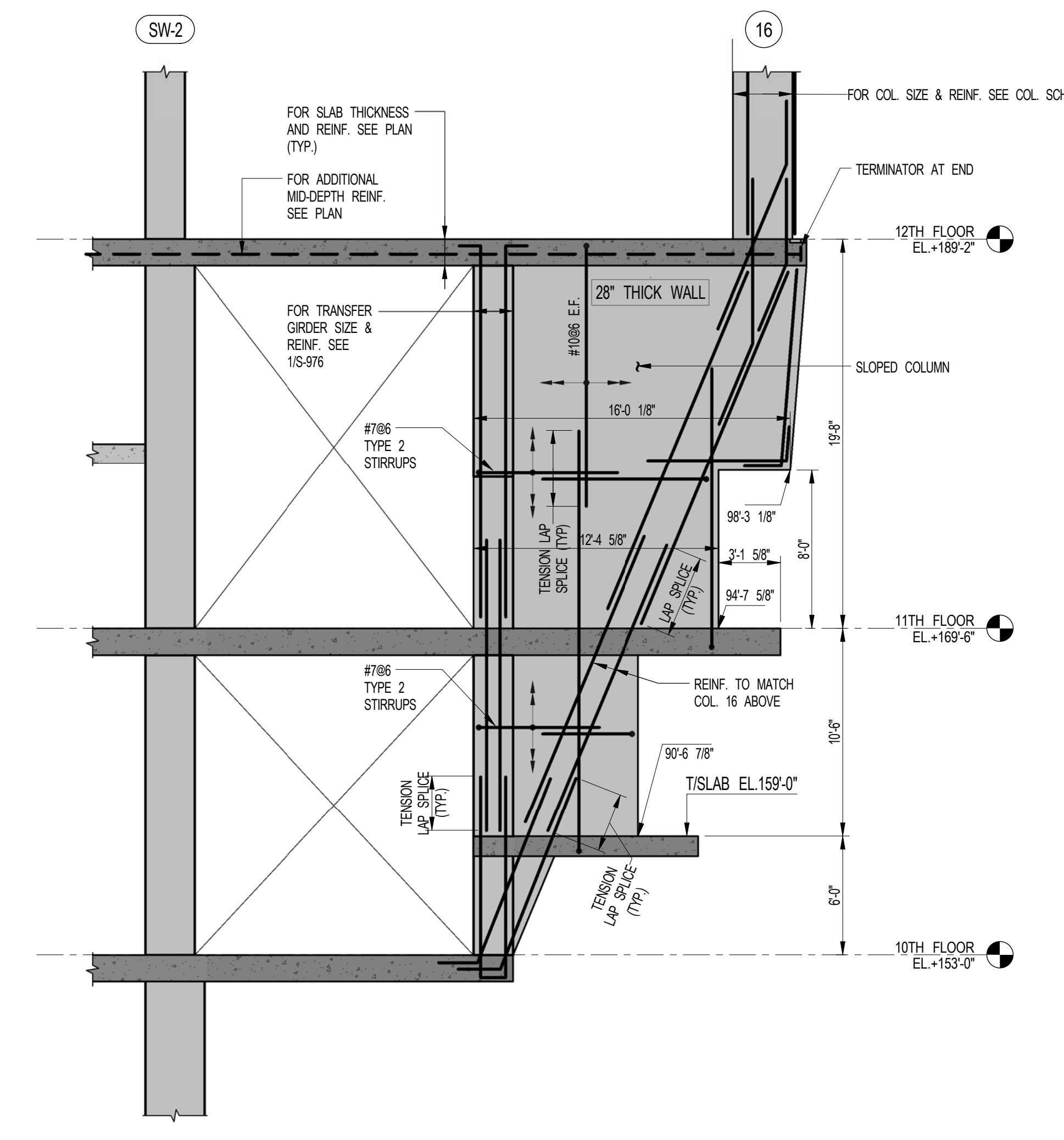
ACOUSTICAL CONSULTANTS:
CERAMI & ASSOCIATES INC.
404 5th Ave. #8
New York, NY 10018
T: 212-577-1776

LANDSCAPE DESIGNER:
Nelson Byrd Wolfe
200 Park Avenue South, Suite 920
New York, NY 10003
T: 212-260-2270

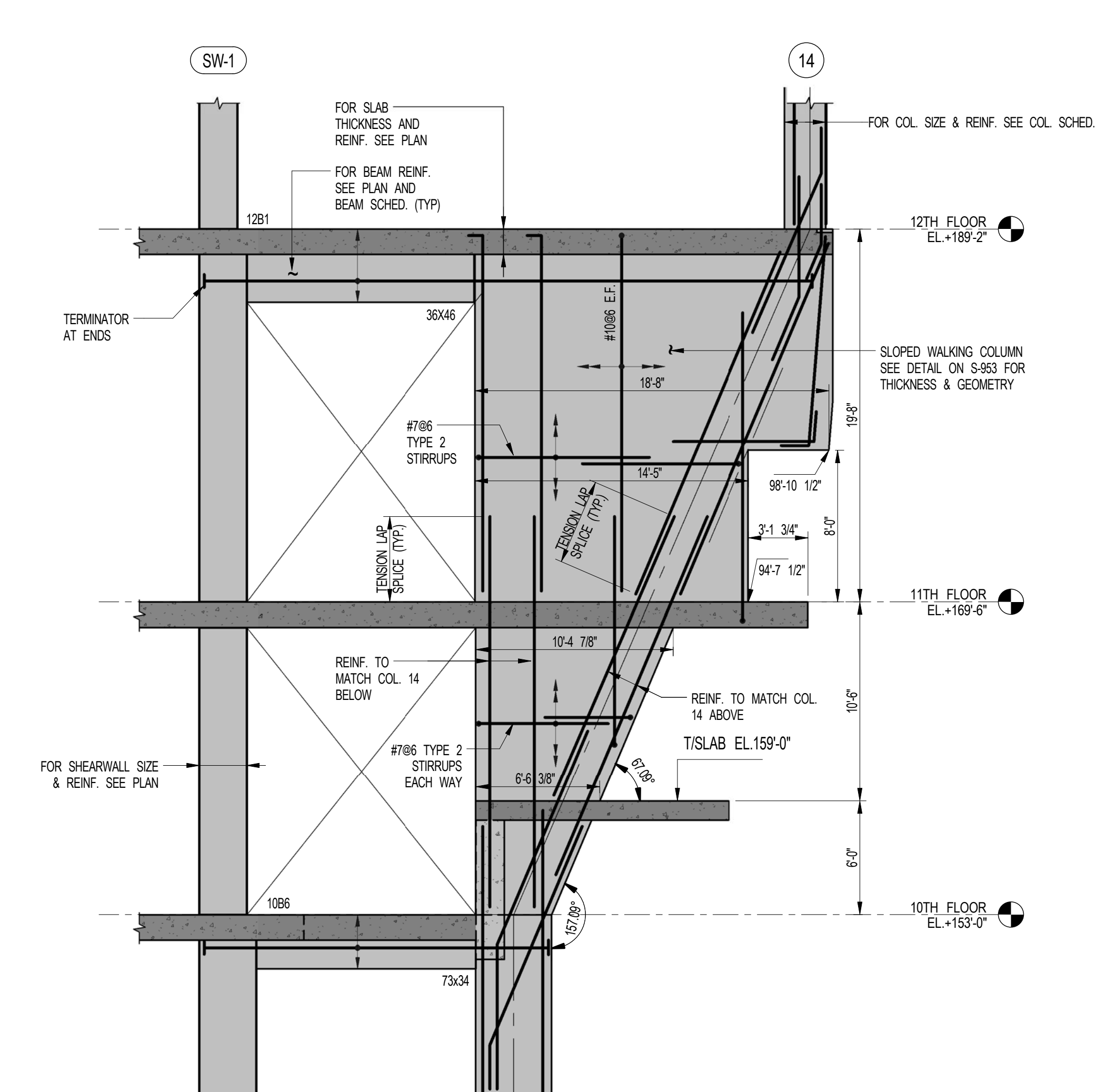


1 TRANSFER WALL ELEVATION
S-976 SCALE: 3/16" = 1'-0"

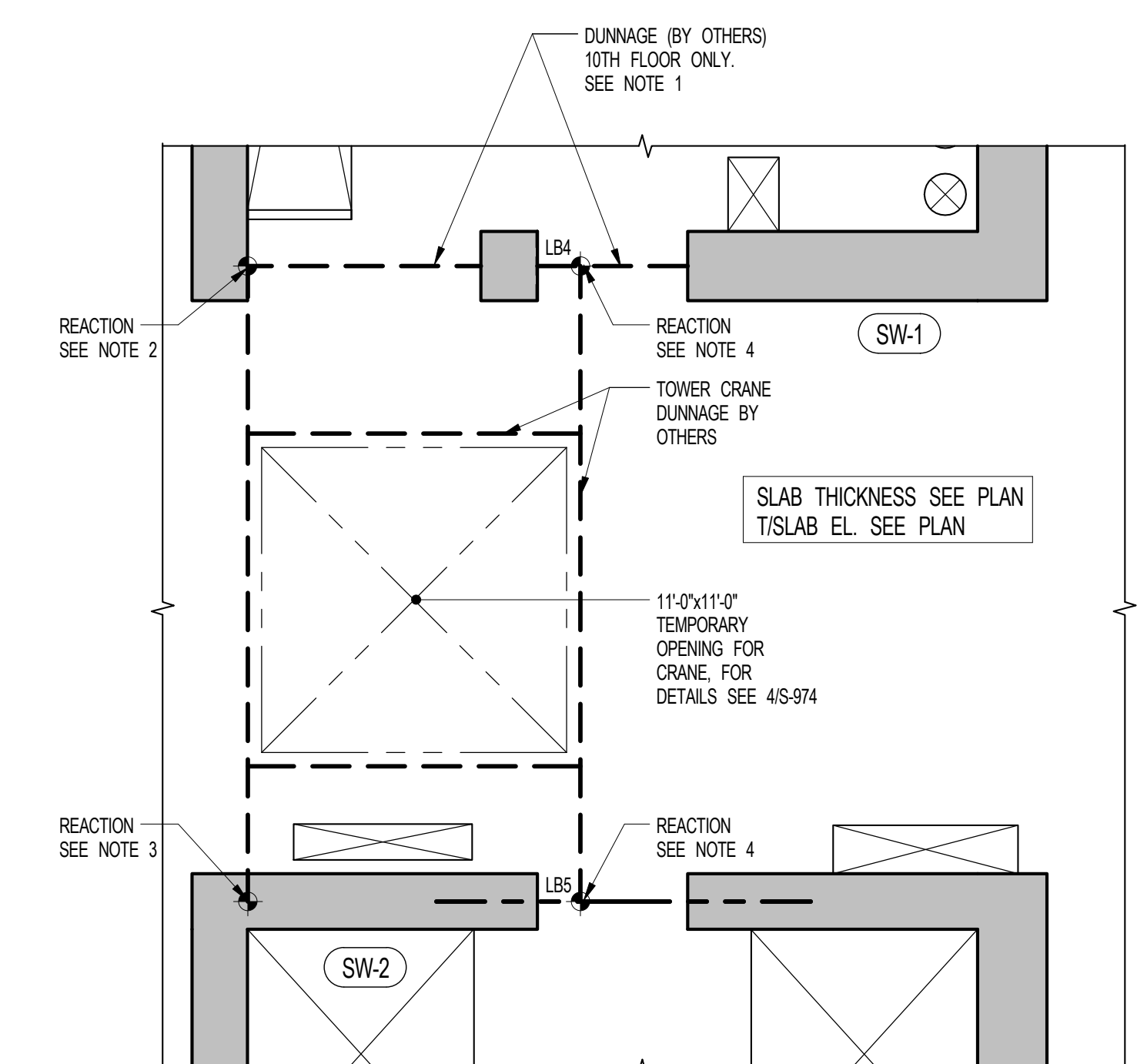
NOTES:
1. REIN. TO BE SPICED USING THREADED REIN. AND MECHANICAL COUPLERS. SPICE LOCATION MUST BE STAGGERED MIN. 2'-0" ON PLAN. LOCATION OF TERMINATORS MUST BE STAGGERED 6".
2. ALL DIMENSIONS AND LOCATIONS TO BE CONFIRMED/VERIFIED BY ARCH. THE EOR TO BE NOTIFIED OF ANY REVISIONS WHICH ARE SUBJECT TO REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
3. MIN. CONC. STRENGTH: FC: 4000 PSI



2 COLUMN 16 TRANSFER ELEVATION (LOOKING NORTH)
S-976 SCALE: 3/16" = 1'-0"



3 COLUMN 14 TRANSFER ELEVATION (LOOKING NORTH)
S-976 SCALE: 3/16" = 1'-0"
NOTE: SIMILAR DETAIL APPLIES FOR COLUMN 15.



4 TOWER CRANE DUNNAGE SUPPORT PLAN
S-976 SCALE: 3/16" = 1'-0"

LEGEND:
INDICATES LOCATION OF REACTION FROM TOWER CRANE DUNNAGE. SEE TABLE FOR REACTIONS.

NOTES:
1. AT 10TH FLOOR THE SLAB WILL NOT SUPPORT THE REACTIONS FROM THE TOWER CRANE DUNNAGE. SUPPLEMENTARY DUNNAGE BEAMS TO BE PROVIDED AS INDICATED ON PLAN TO TRANSFER THE REACTIONS TO THE CRITICAL ELEMENTS OF SW-1. ENBED PLATES (DESIGN BY OTHERS) TO BE PROVIDED IN SW-1 TO FACILITATE CONNECTION OF DUNNAGE BEAMS.
2. WHERE SHEAR WALL IS PRESENT, DUNNAGE TO CONNECT TO FACE OF WALL USING EMBEDDED STEEL PLATES (DESIGN BY OTHERS). SEE NOTE 1 ABOVE FOR SUPPORT WITHIN FLOOR.
3. DUNNAGE TO CONNECT TO FACE OF WALL AT ALL LEVELS USING EMBEDDED STEEL PLATES (DESIGN BY OTHERS).
4. REACTIONS FROM DUNNAGE BEAM TO BE SUPPORTED BY LINK BEAM AND IMPOSED DIRECTLY OVER WEB OF LINK BEAM. MIN BEARING AREA TO BE 2'-0"x6'-0" SEE NOTE 1 ABOVE FOR SUPPORT @ 10TH FLOOR LB4 LOCATION.

COLLAR SUPPORT REACTIONS SERVICE LOADS (IMFACTORED)

REACTIONS (R)	IS	OS
R1	50	70
R2	45	65
R3	40	55

LOADING TABLE NOTES:
1. LOADS INDICATED ARE AS PROVIDED BY HONARD I SHAPRO, 11032215
2. LOADS SPECIFIED ABOVE ARE APPLIED TO THE PRIMARY STRUCTURE AT THE FOLLOWING FLOOR LEVELS:
2ND, 5TH, 10TH, 14TH, 18TH, 20TH, 24TH, 30TH, 36TH, 41ST, 45TH, 49TH, 53RD, 57TH, 61ST, 65TH AND 69TH.
3. DESIGN AND DETAIL OF HOW ABOVE DETAILS ARE TRANSMITTED TO THE PRIMARY STRUCTURE ARE BY OTHERS. HOWEVER THE RELEVANT CONNECTION DETAILS SHALL BE SUBMITTED TO THE EOR FOR IMPOSED LOADS REVIEW.

SHEET NOTES:

KEY PLAN

NO. ISSUE SET **REV DATE**

1	70% CD	1	04-27-15
2	80% CD	2	07-02-15
3	80% PARTIAL CD ISSUE - FLOORS	3	09-03-15
4	90% CD	4	11-24-15
5	90% CD	4	11-24-15
6	PAA #2	5	01-26-16
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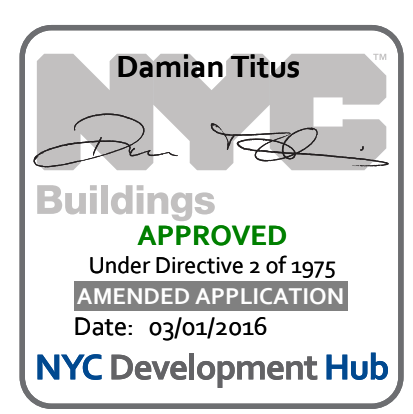
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DRAWING SCALE
As indicated

PROJECT NUMBER
2012058

TITLE
SUPERSTRUCTURE SECTIONS 7

DRAWING NO.
S-976.00



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F: 212.269.5894

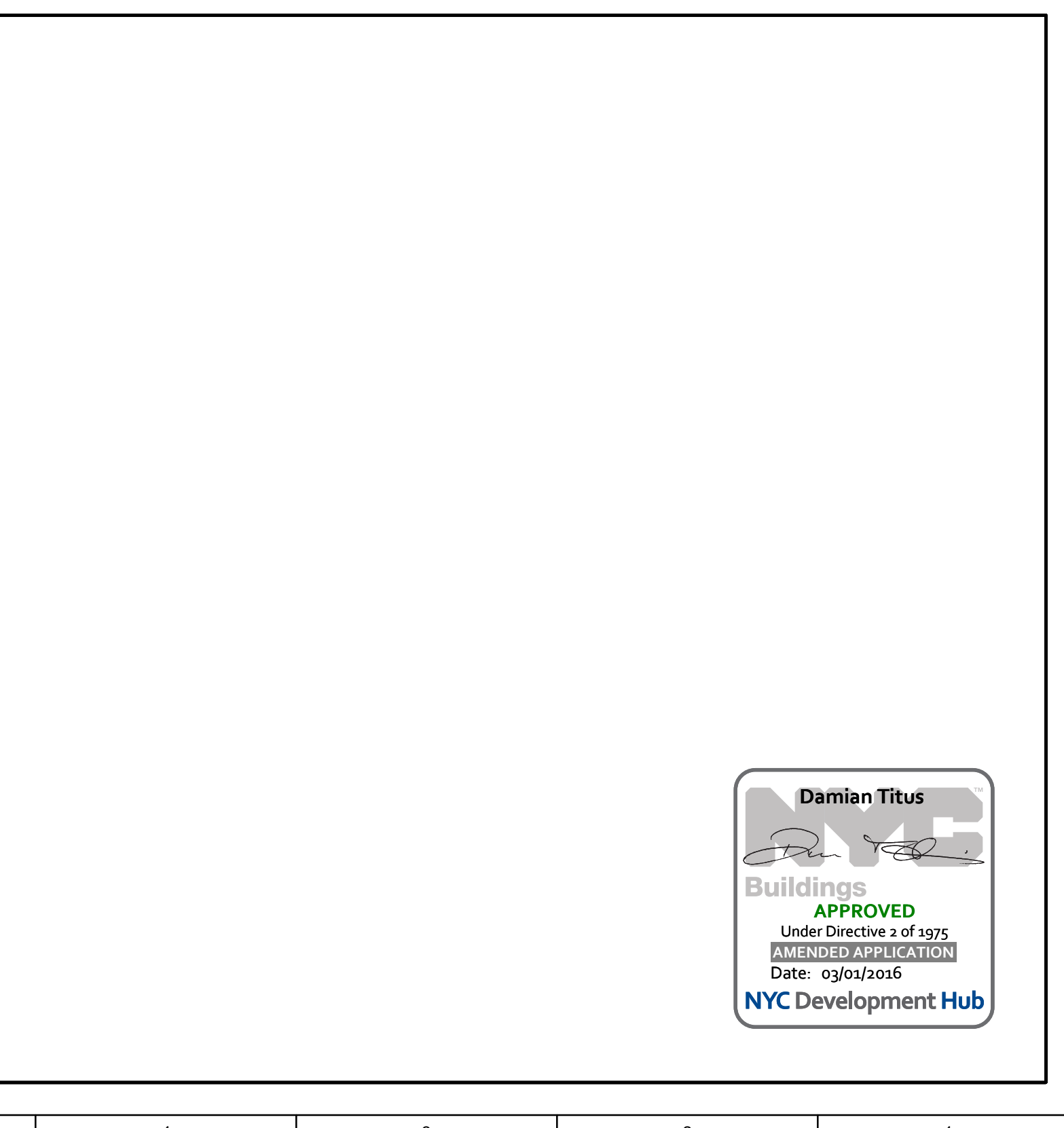
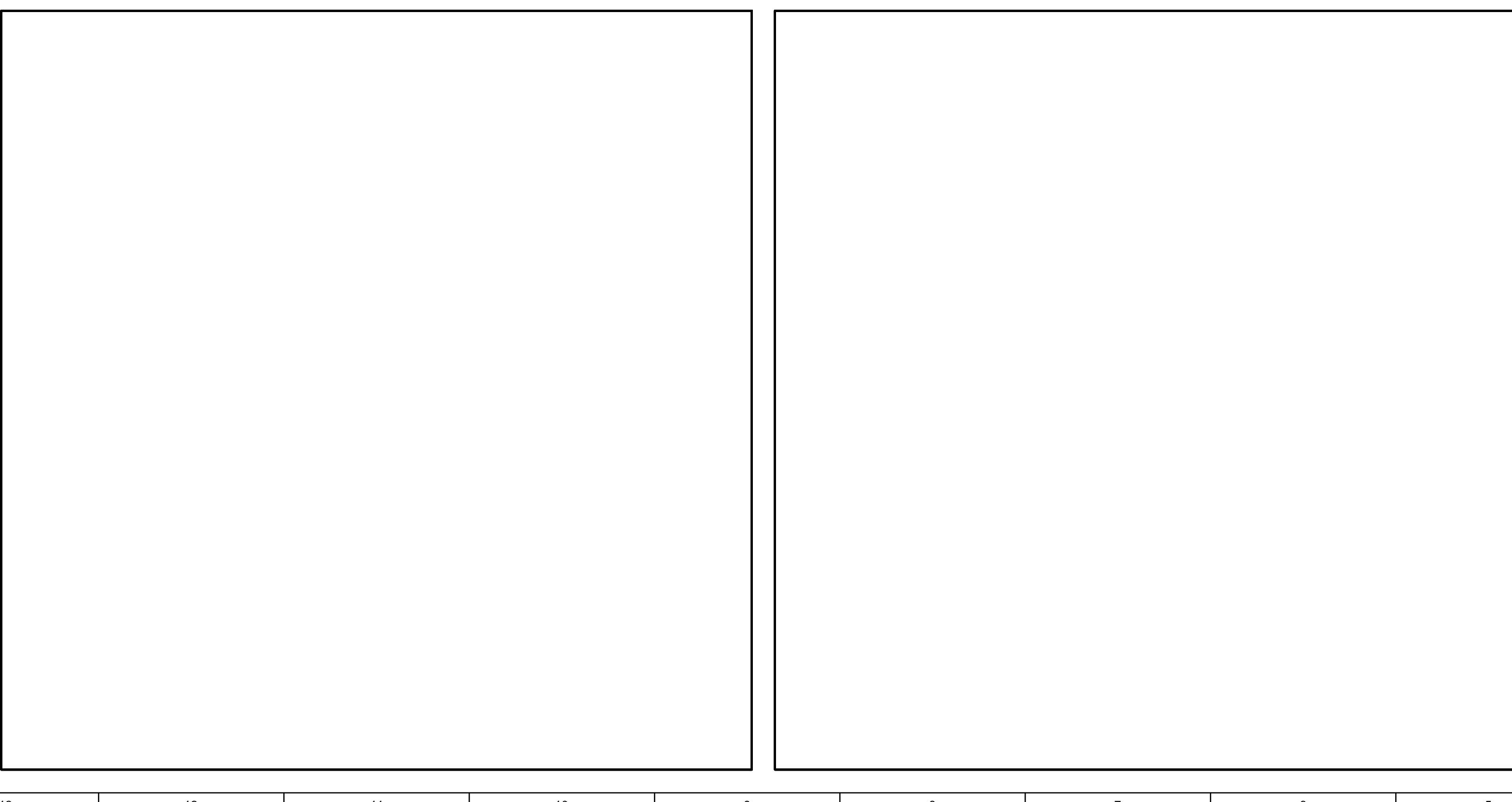
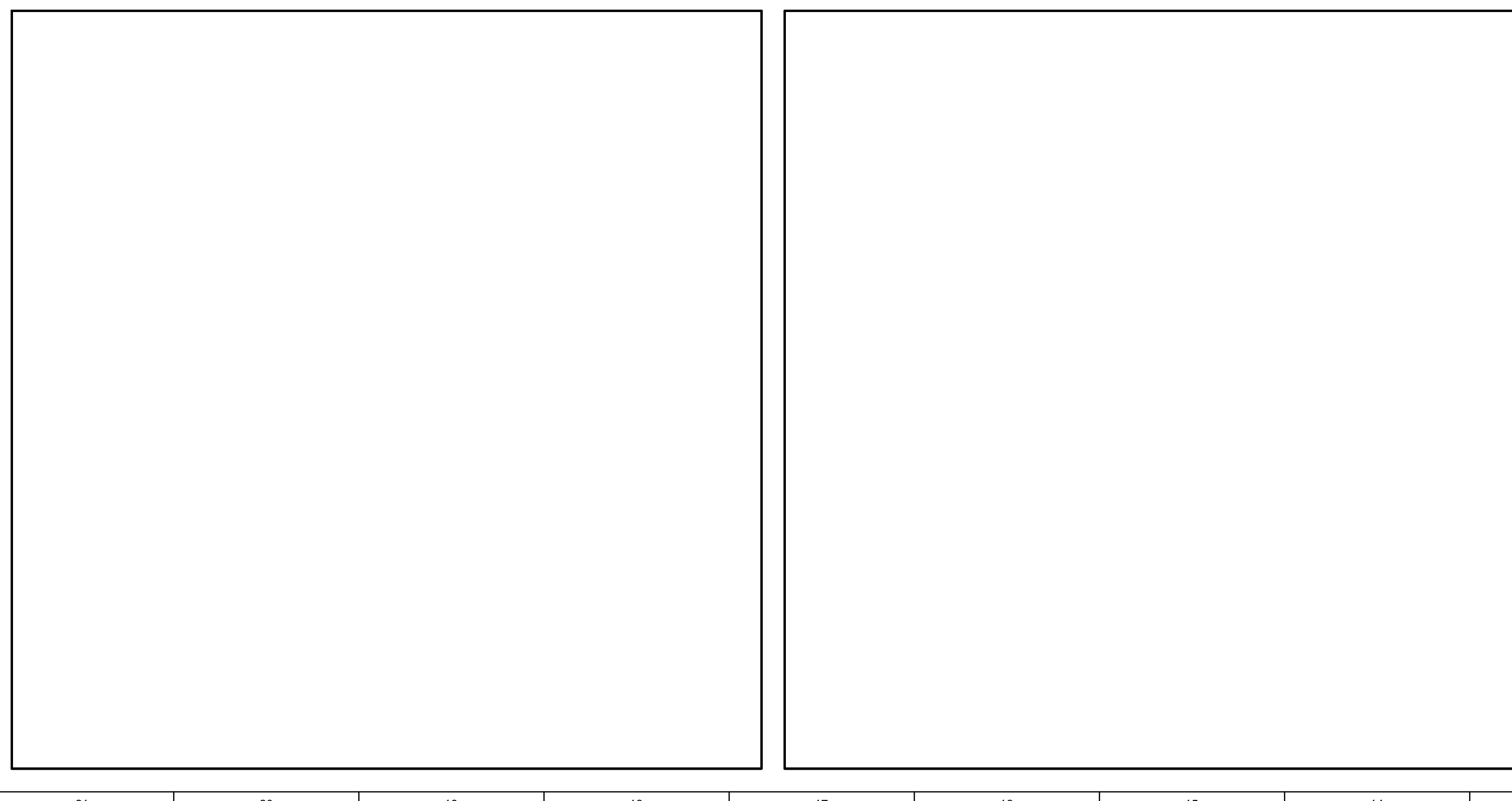
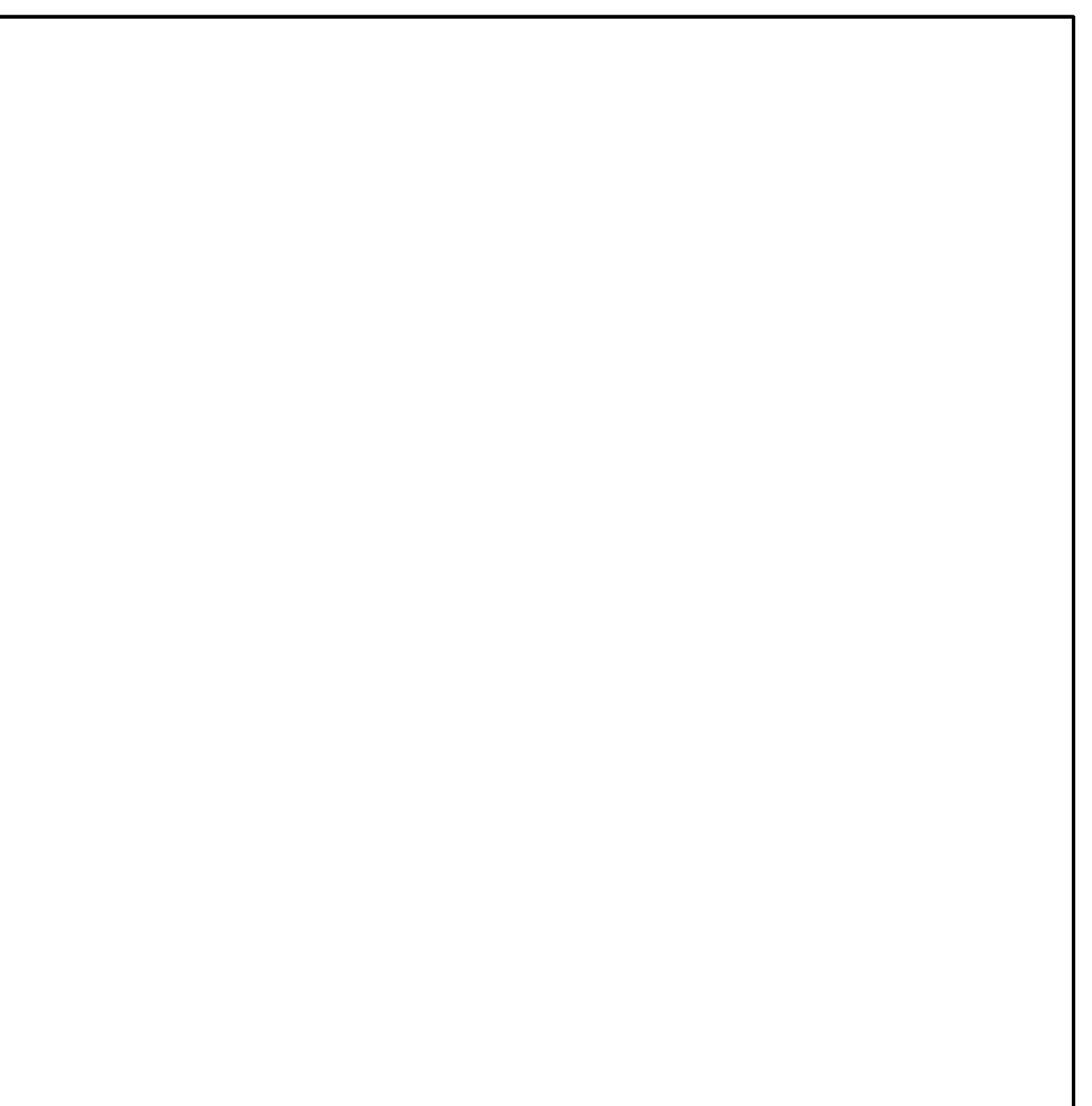
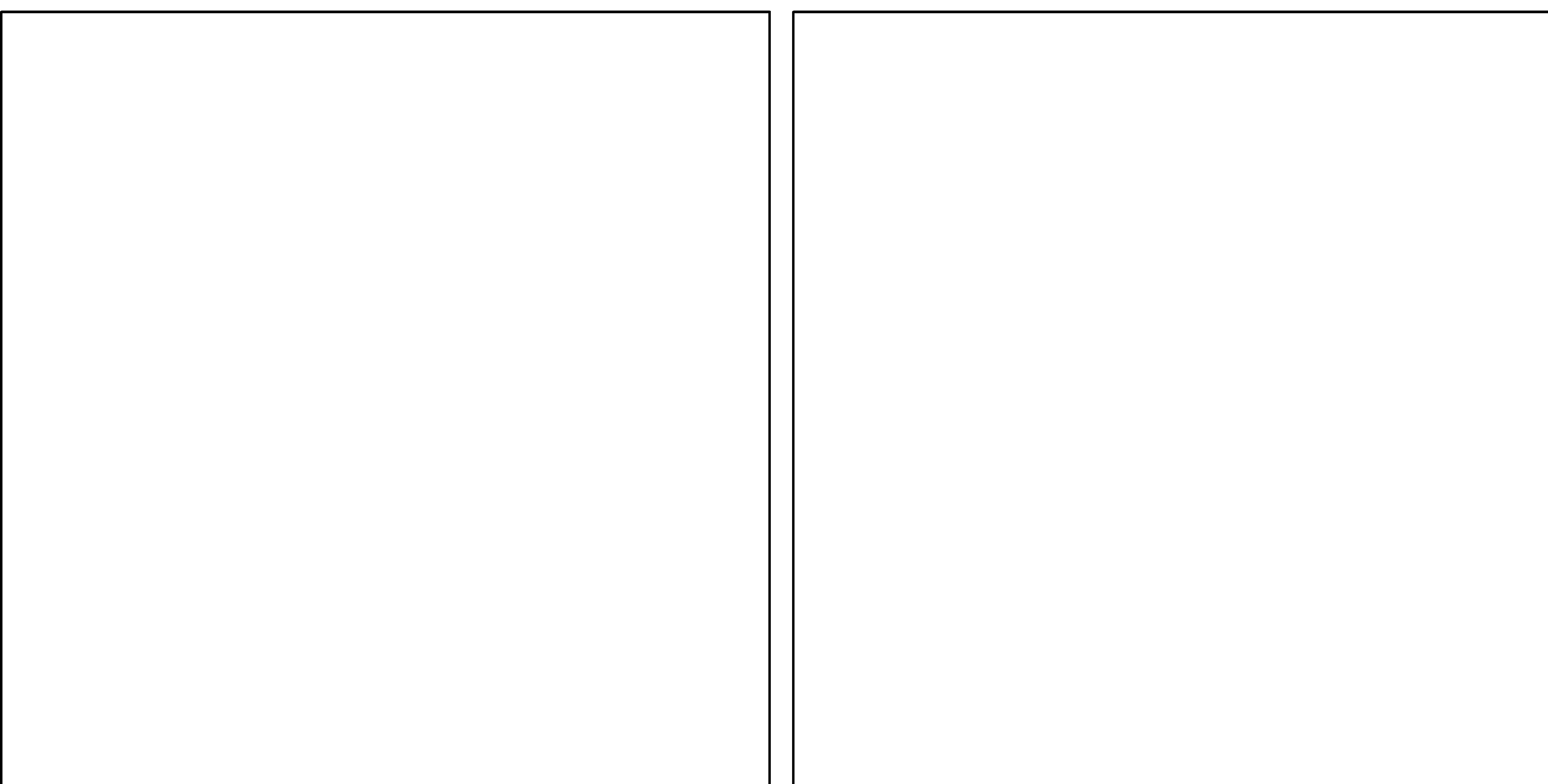
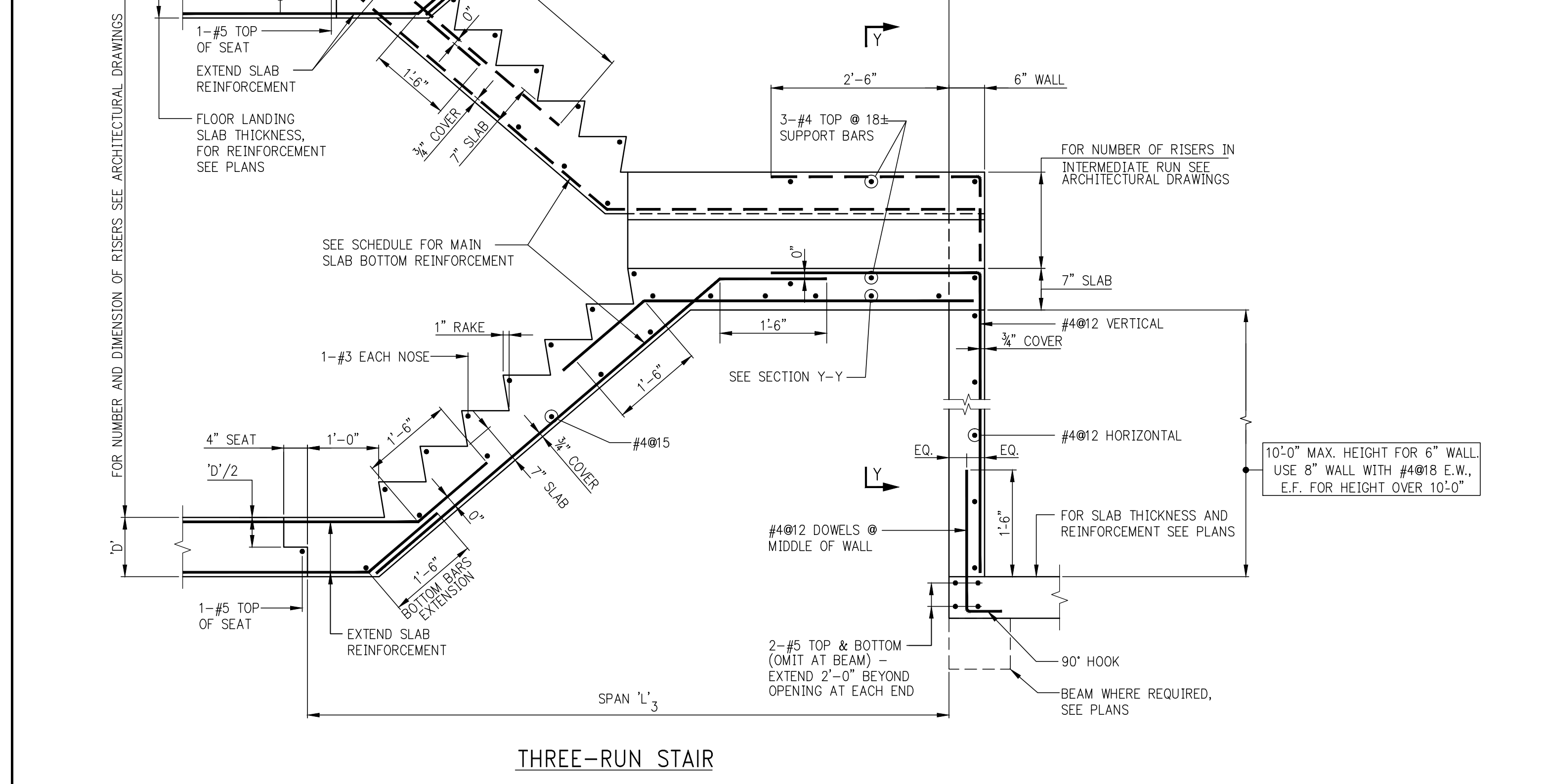
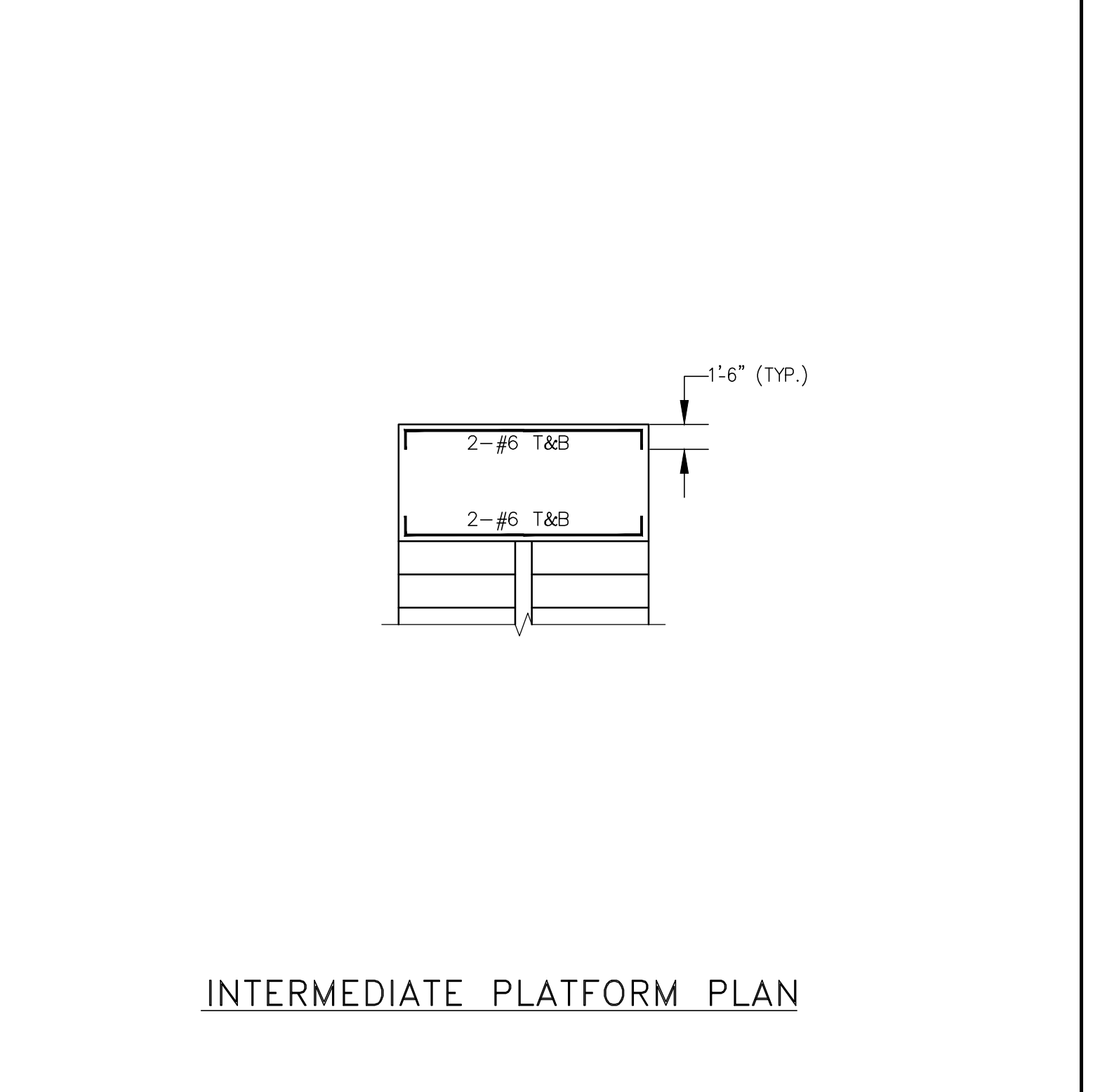
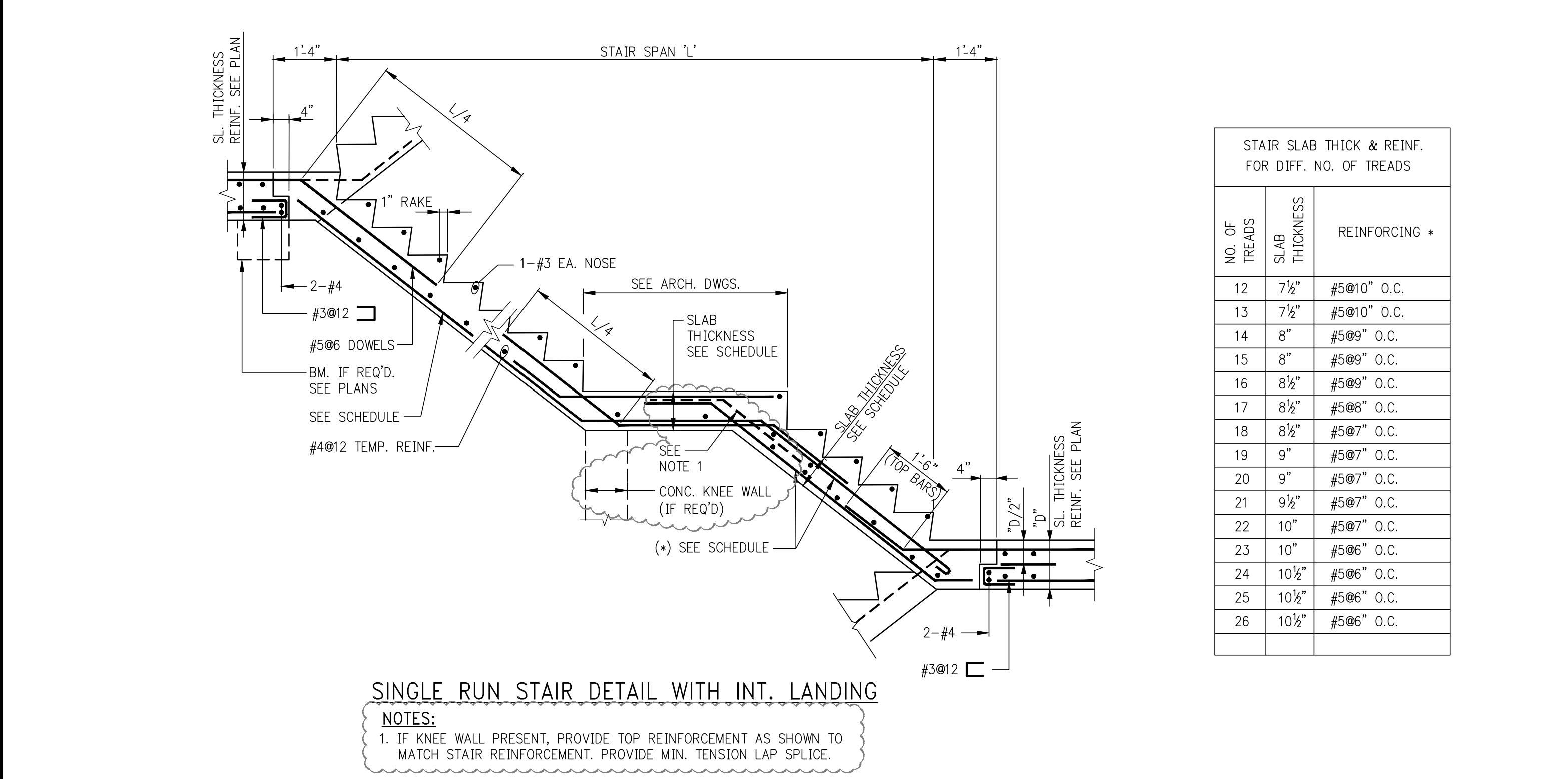
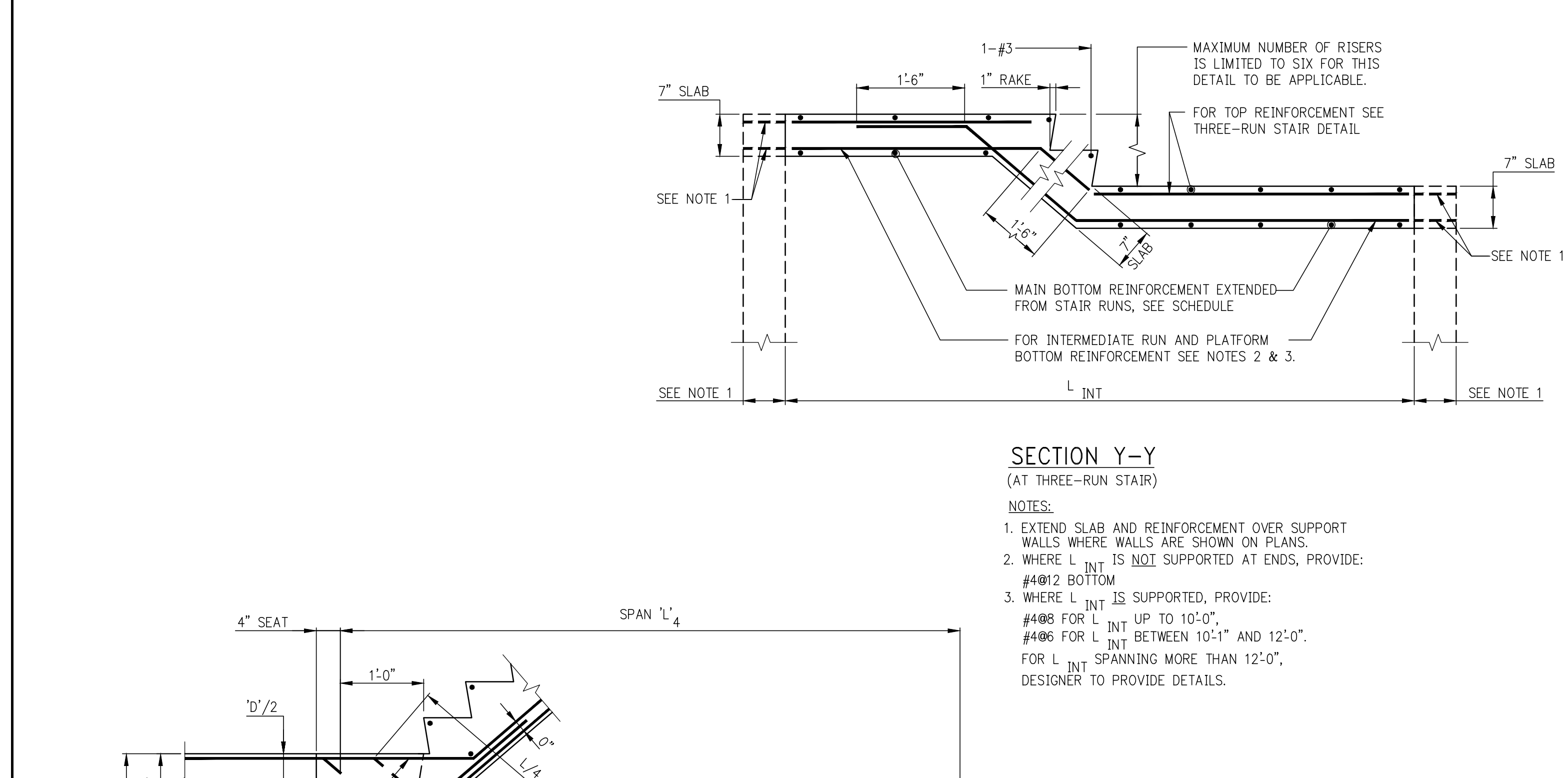
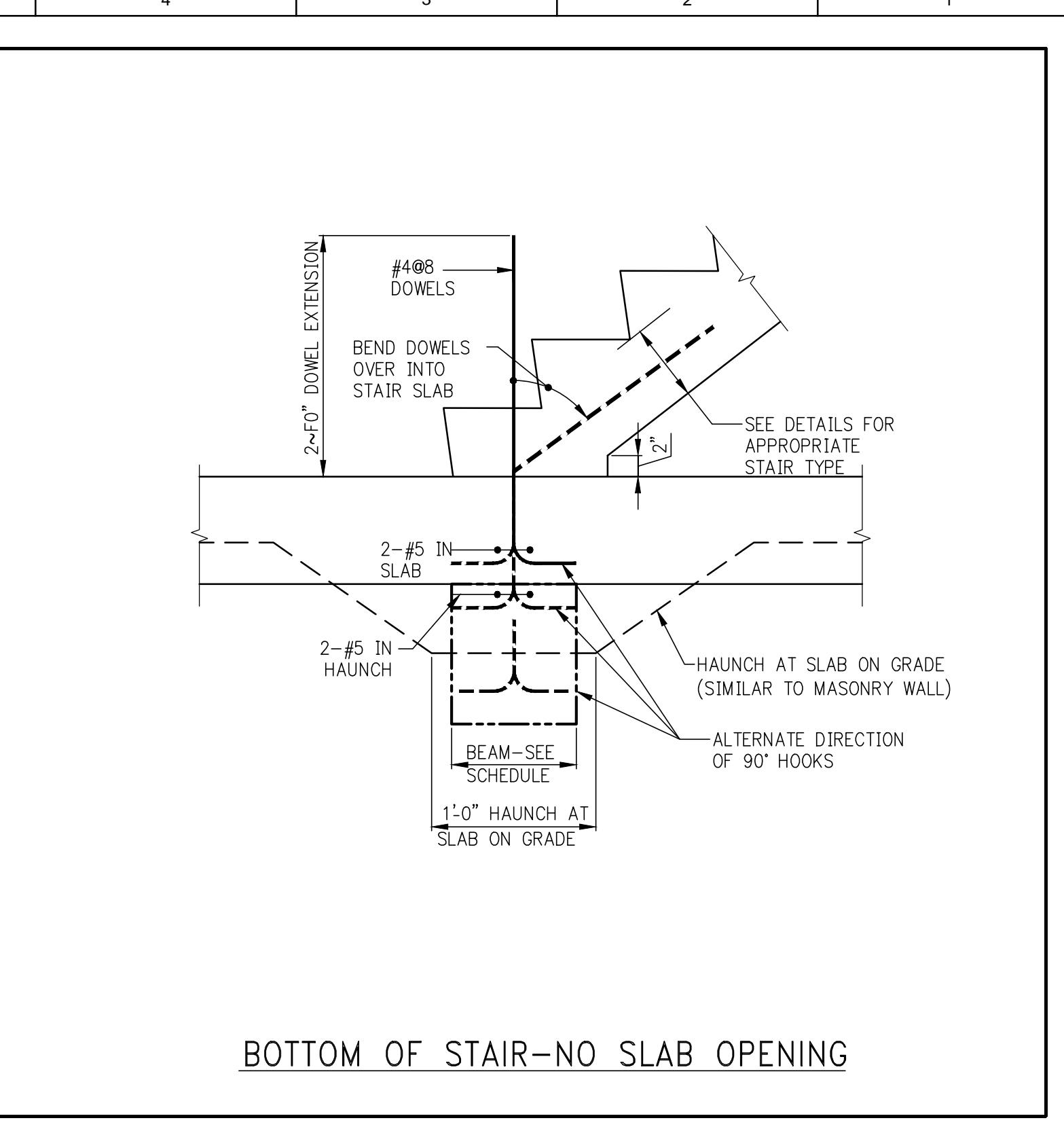
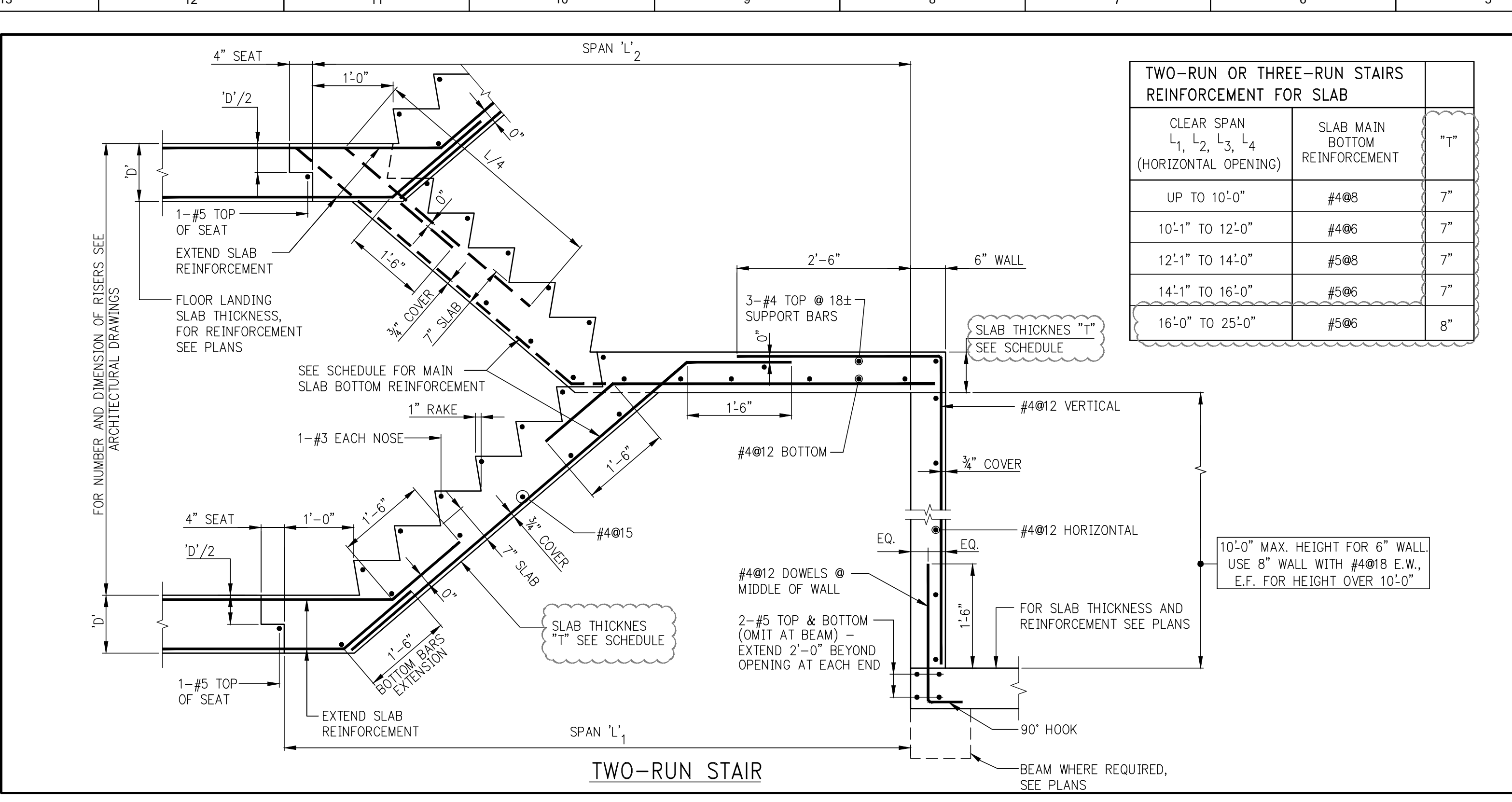
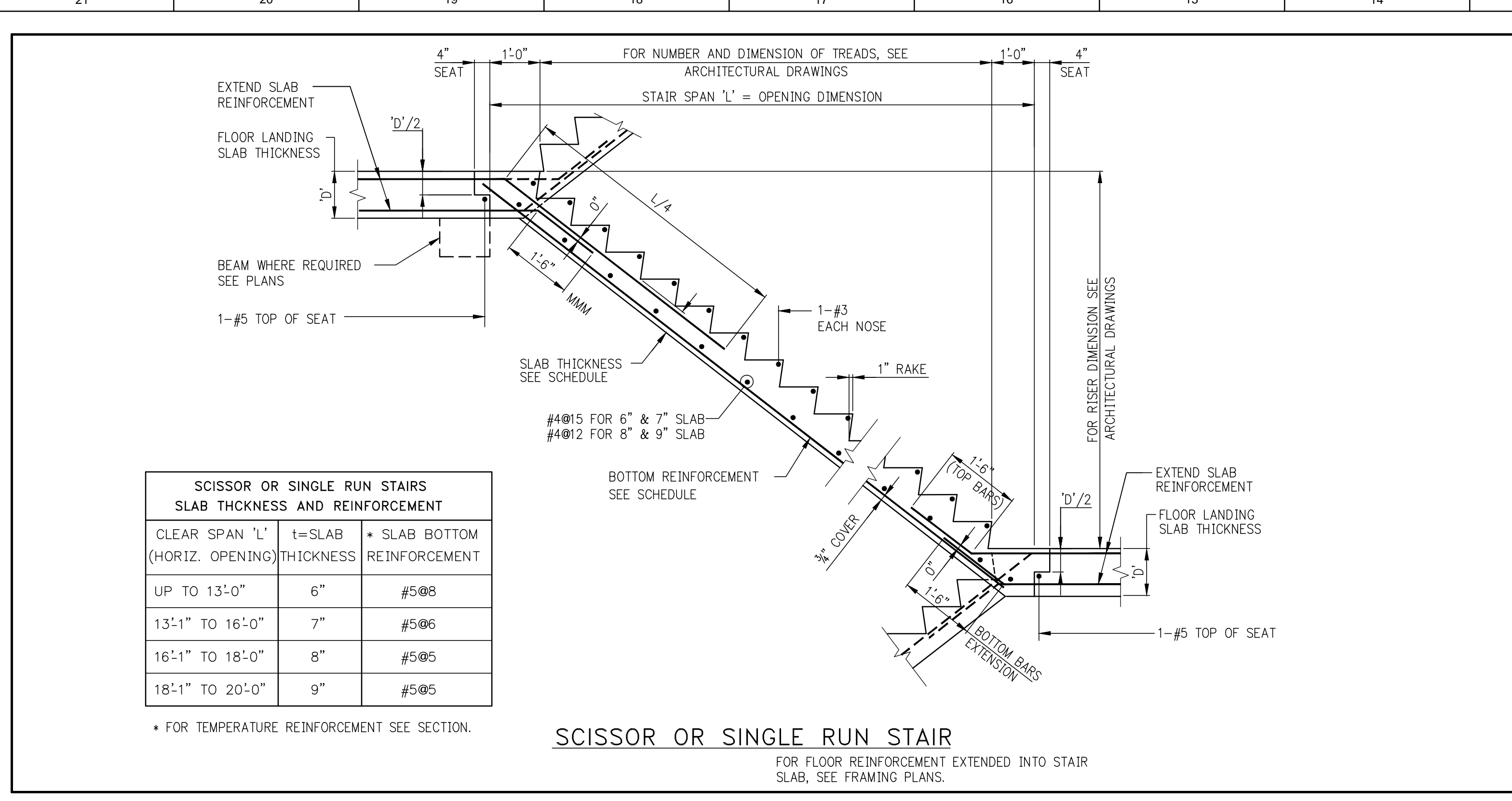
EXTERIOR WALL CONSULTANT:
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LANDSCAPE DESIGNER:
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SHEET NOTES:

NO.	ISSUE SET	REV DATE
1	SUPERSTRUCTURE EARLY BID	11-17-14
2	SET	
3	DESIGN DEVELOPMENT SET	12-22-14
4	NYCT SUBMISSION	12-23-14
5	LIMITED CD SET	03-20-15
6	70% CD	04-27-15
7	85% CD	07-02-15
8	90% PARTIAL CD ISSUE	08-03-15
9	FLOORS SC-12	
10	95% CD	11-24-15
11	PA	01-26-16



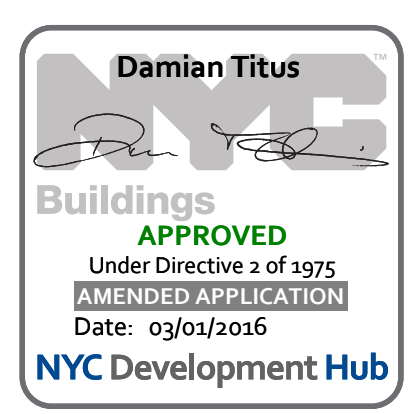
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2016-01-26

DRAWING SCALE:

PROJECT NUMBER:
2012068

TITLE:
TYPICAL STAIR DETAILS

DRAWING NO.:
S-980.01



OWNER:
Related Companies
60 Columbus Circle
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T: 212.290.1444

DESIGNER:
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601 West 88 Street-1815
New York, New York 10001
T: 212.260.7971

DESIGNER:
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STRUCTURAL ENGINEER:
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MEP ENGINEER:
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T: 212-330-9000

EXTERIOR WALL CONSULTANT:
Israel Berger & Associates
360 Park Avenue South, 15th Floor
New York, NY 10010
T: 212-689-5388

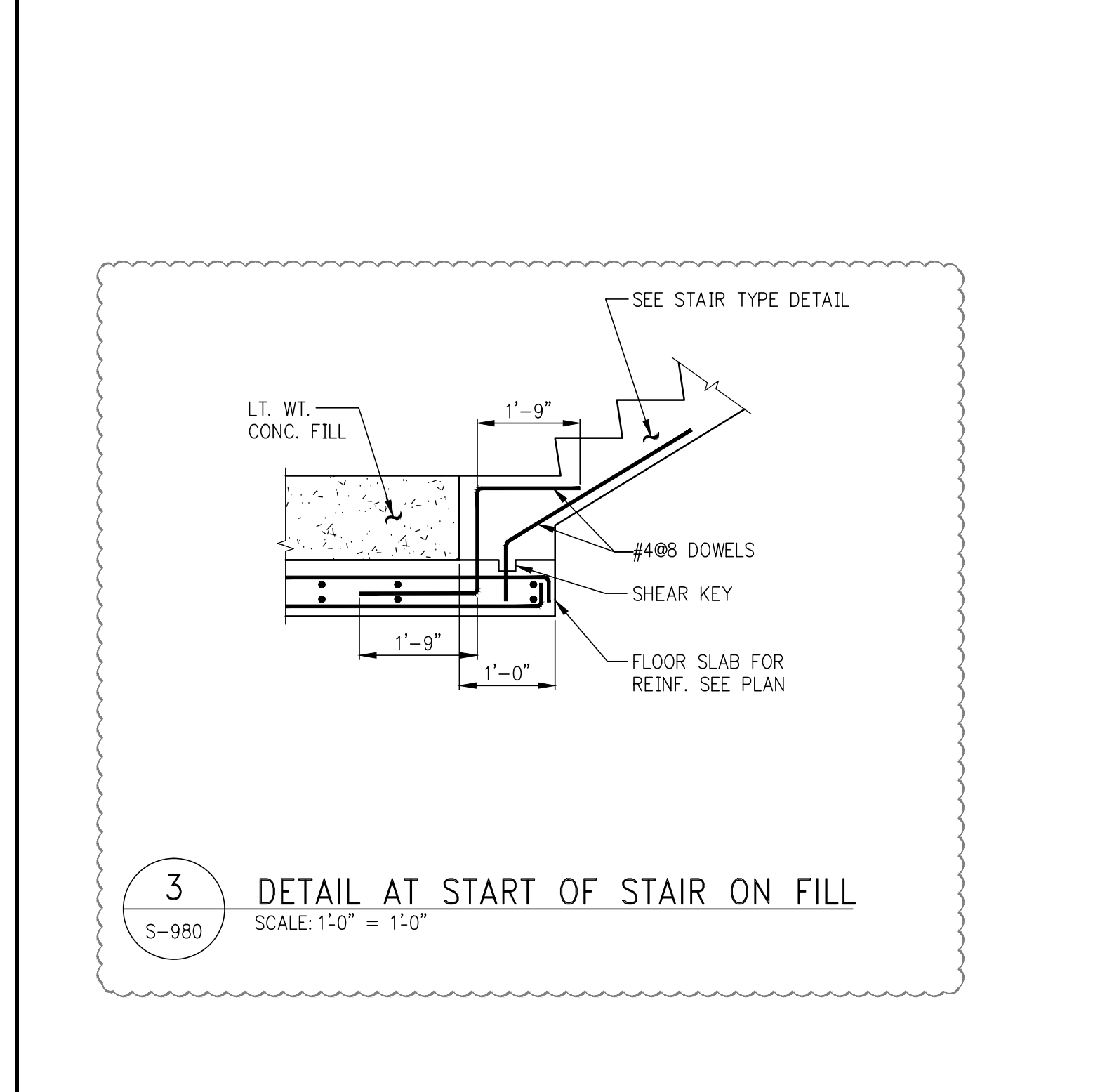
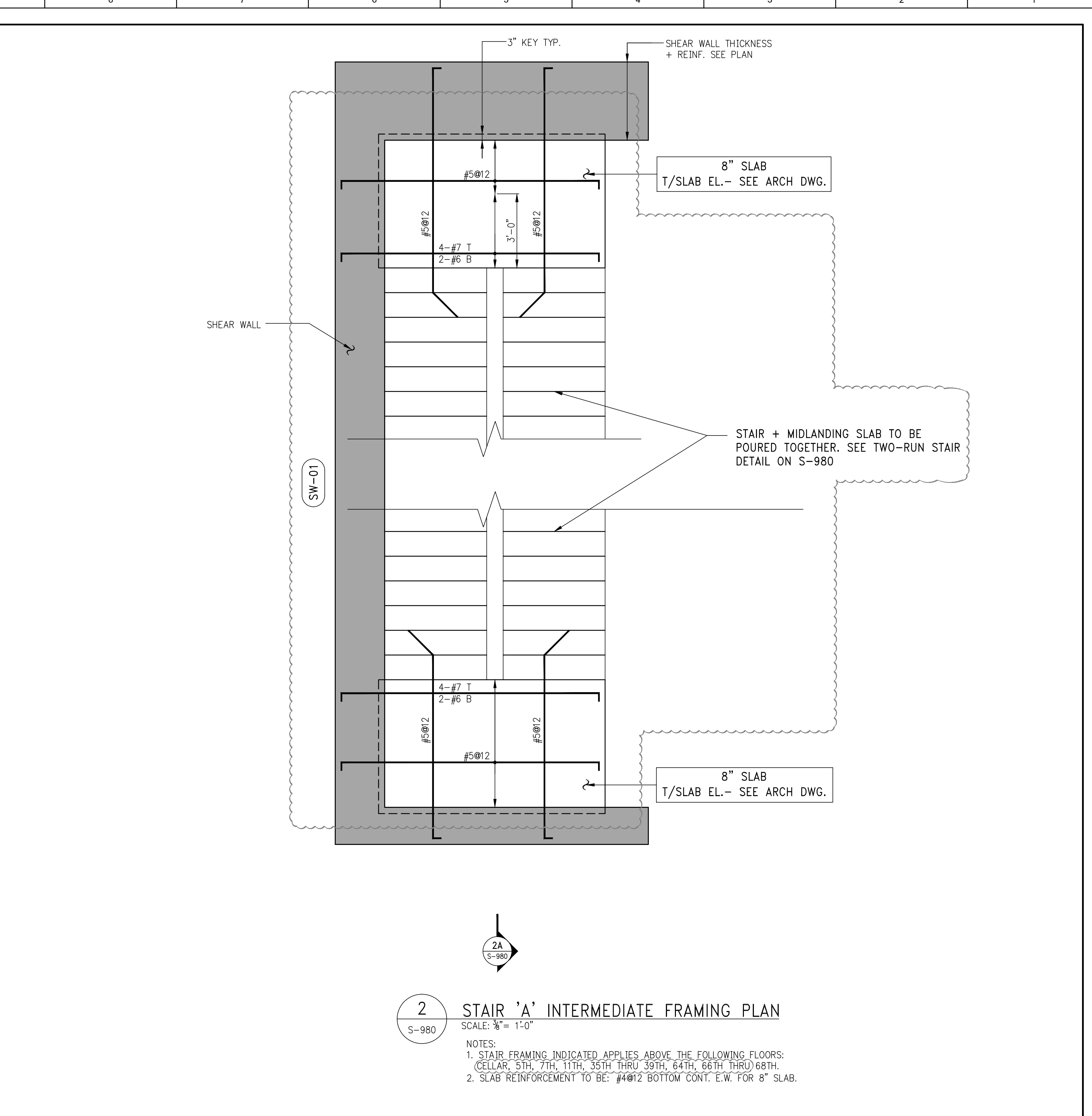
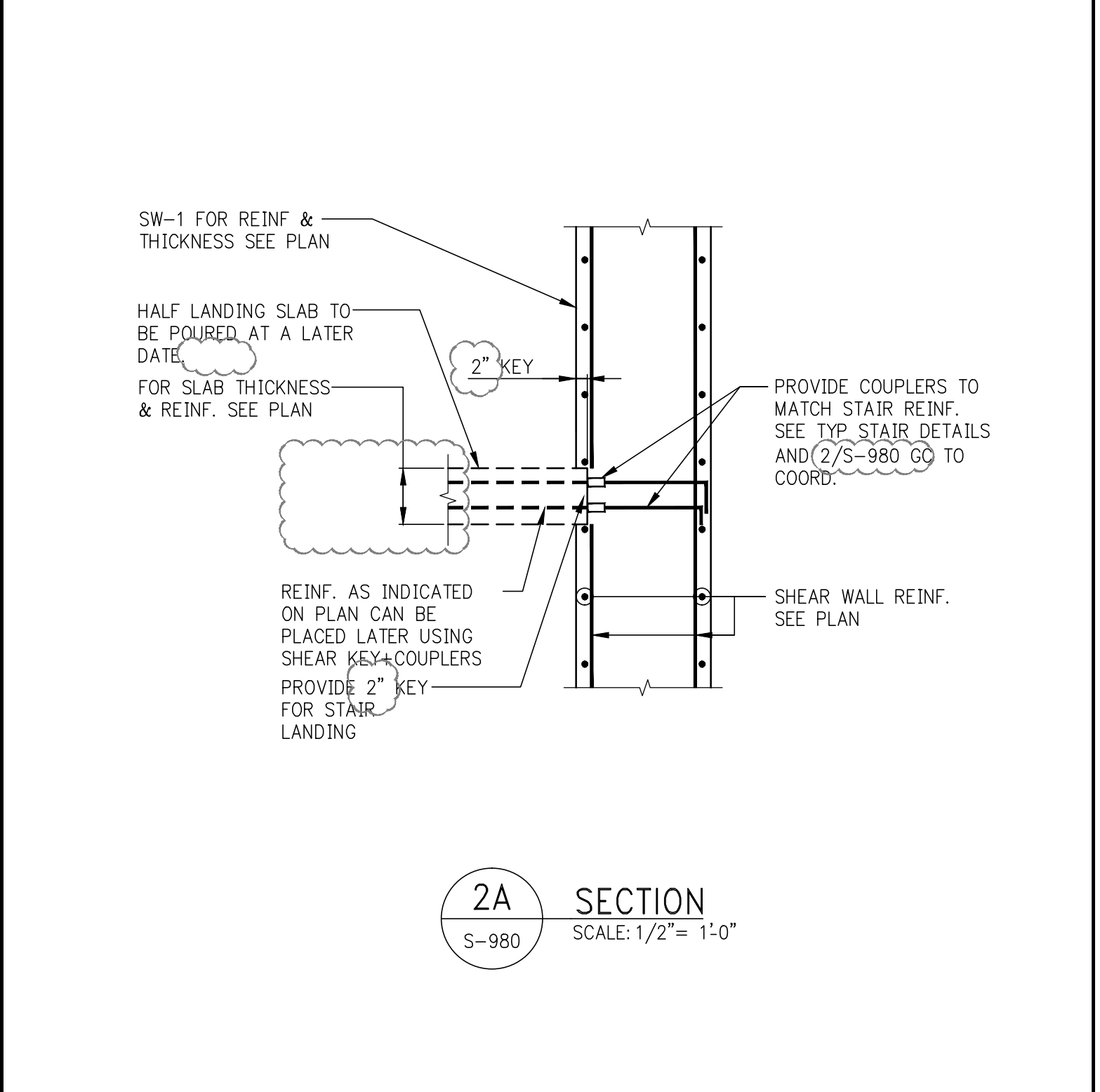
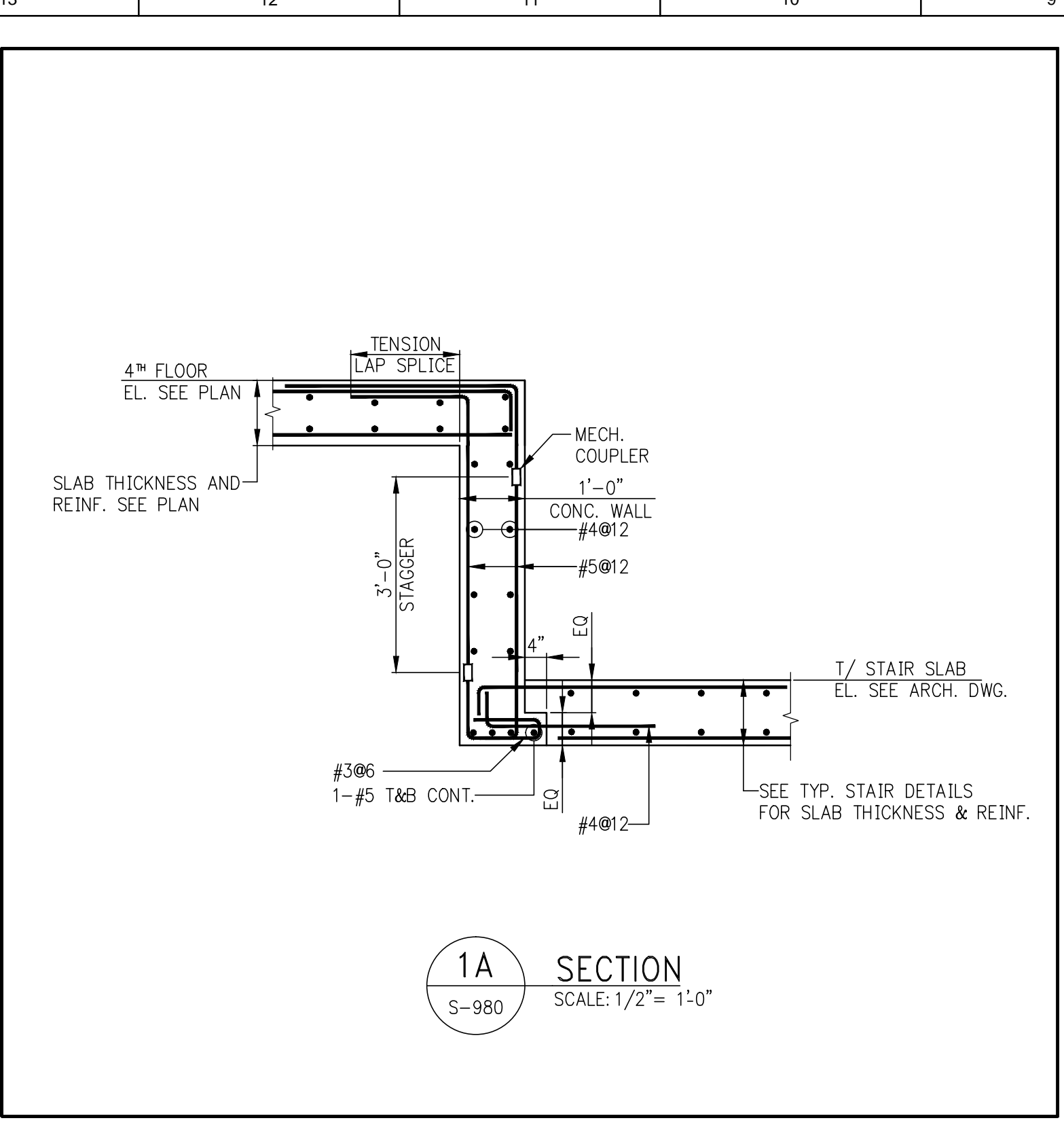
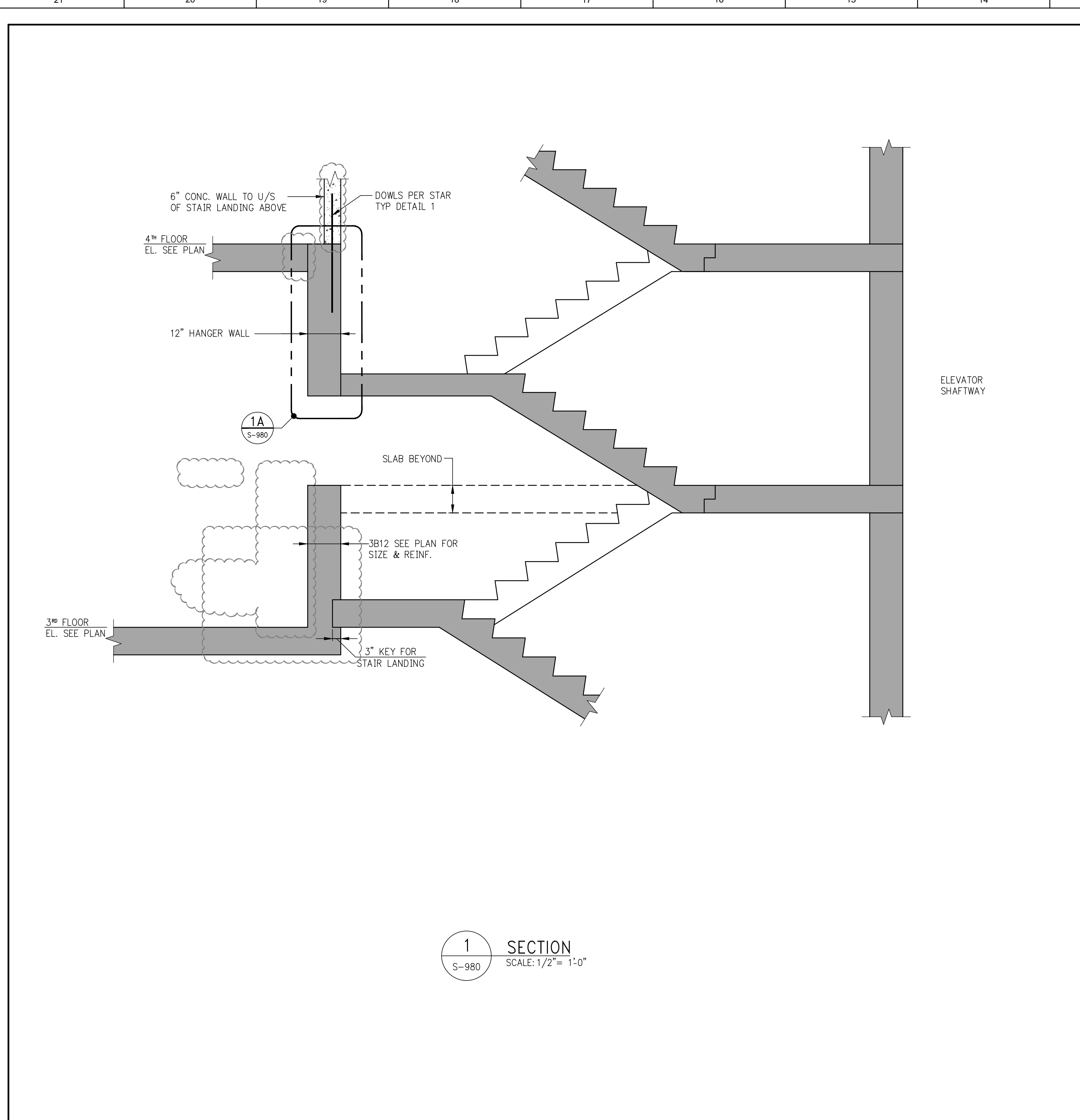
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SHEET NOTES:



NO	ISSUE SET	REV	DATE
	SUPERSTRUCTURE EARLY BID SET		11-17-14
	DESIGN DEVELOPMENT SET		12-22-14
	NYCT SUBMISSION		12-23-14
	UPDATED COB SET		01-20-15
	70% CD		04-27-15
	85% CD		07-02-15
	95% CD		11-24-15
	PAA #2		01-26-16



DATE OF PRINT:
2016-01-26

DRAWING SCALE:

PROJECT NUMBER:
2012068

TITLE:
STAIR SECTIONS

DRAWING NO.:
S-985.01

