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	PROJECT No: 20120000000000000000	
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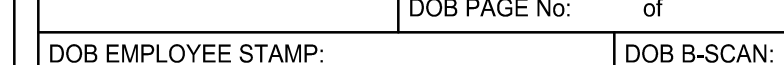
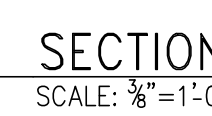
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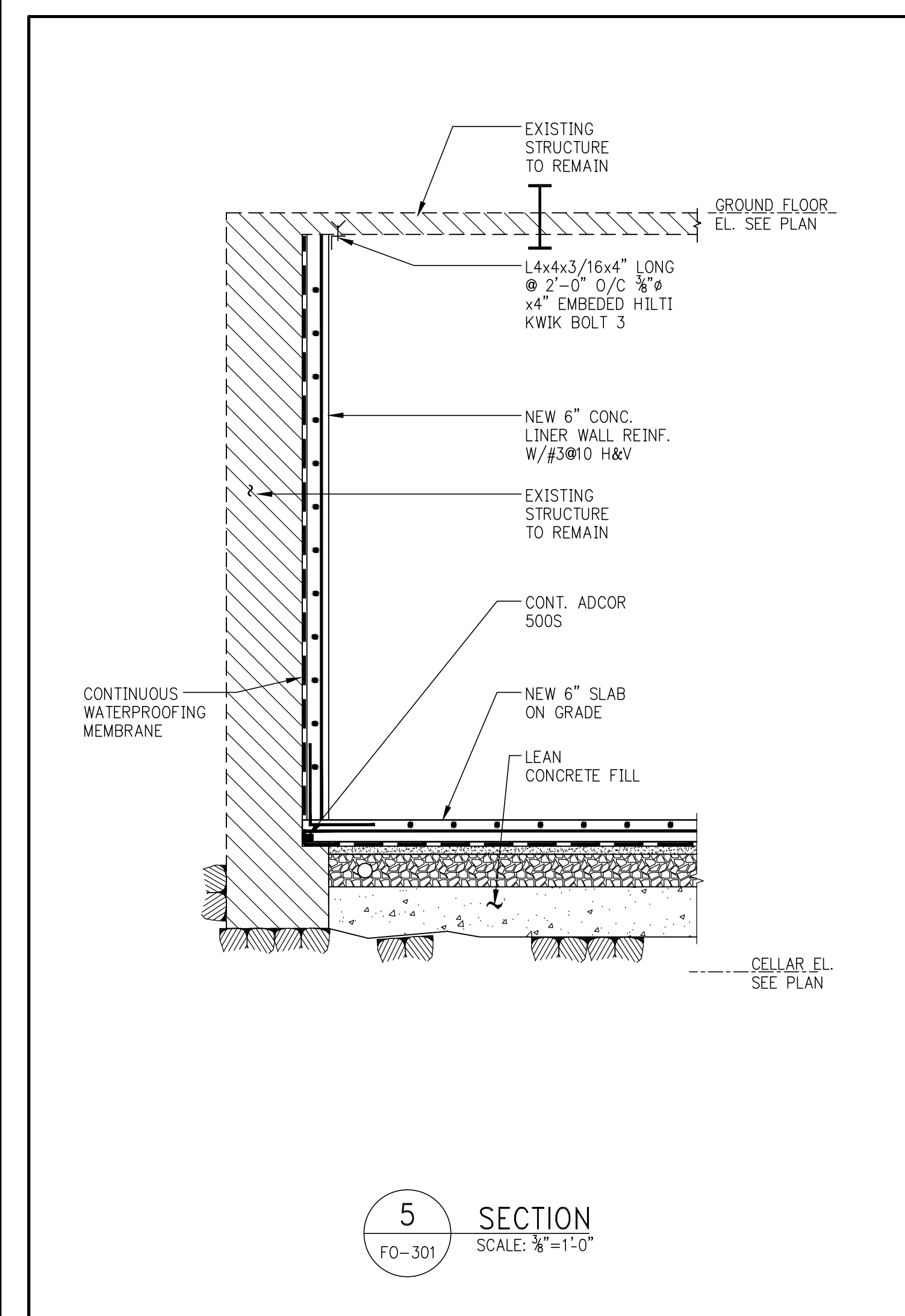
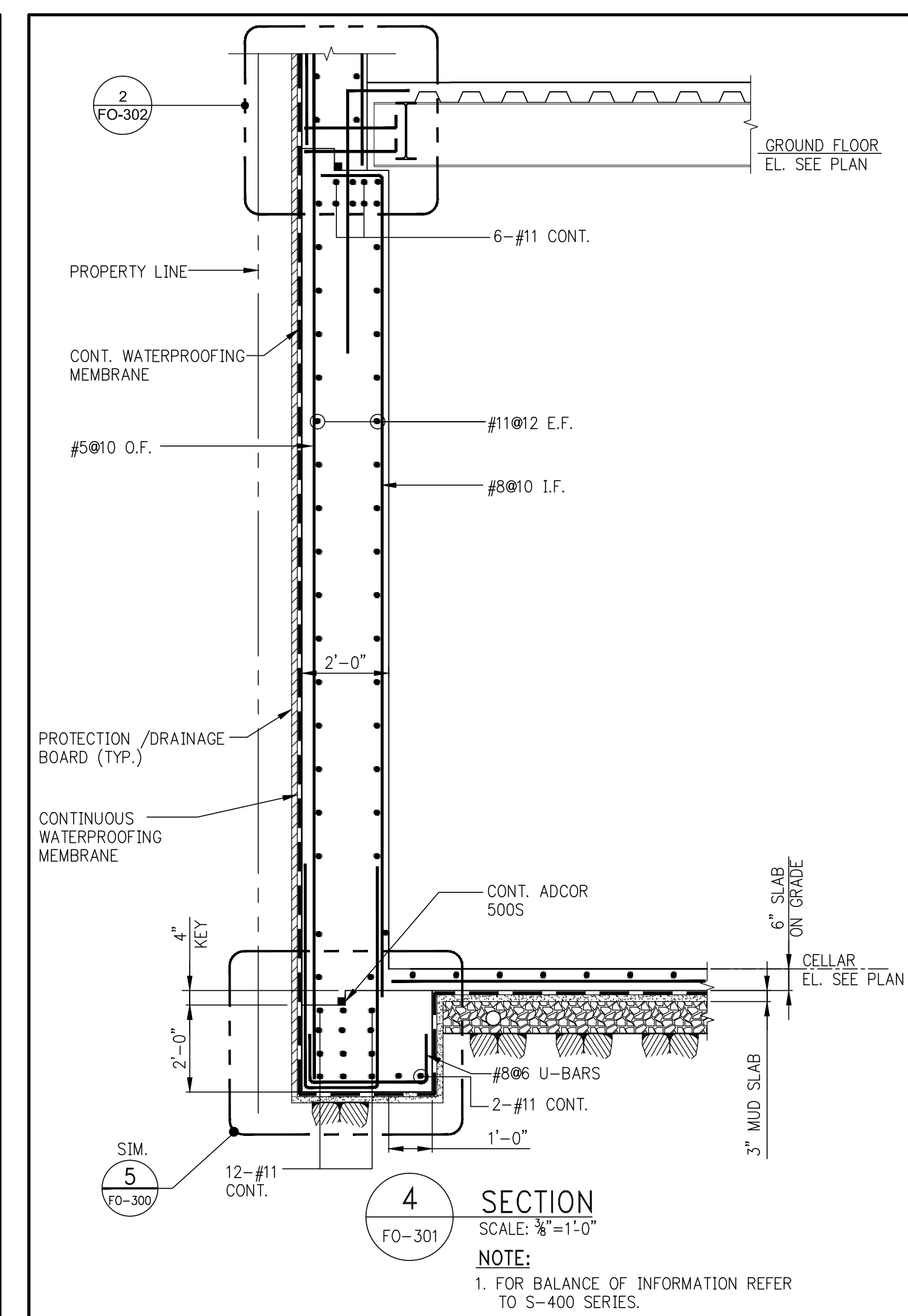
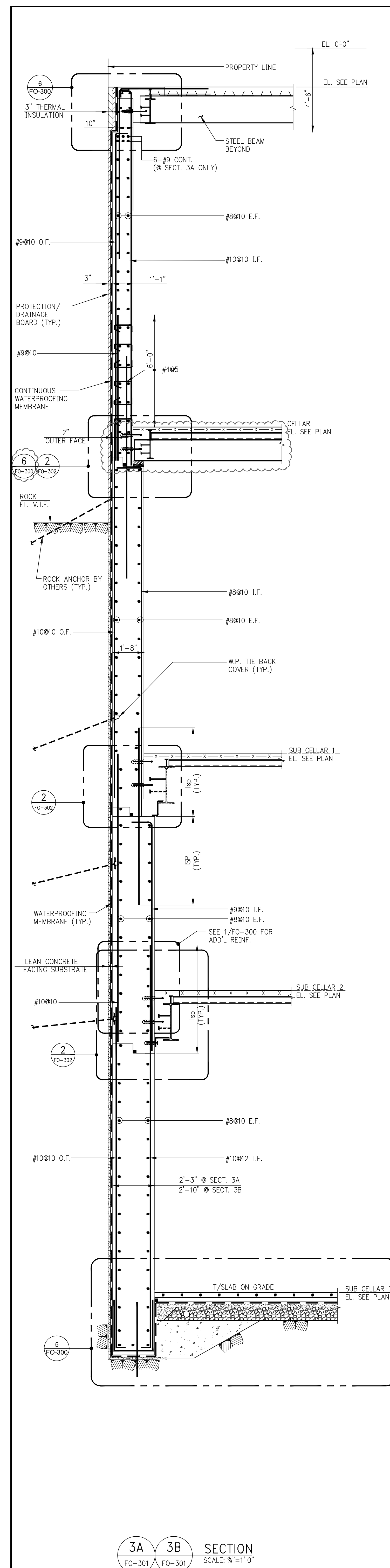
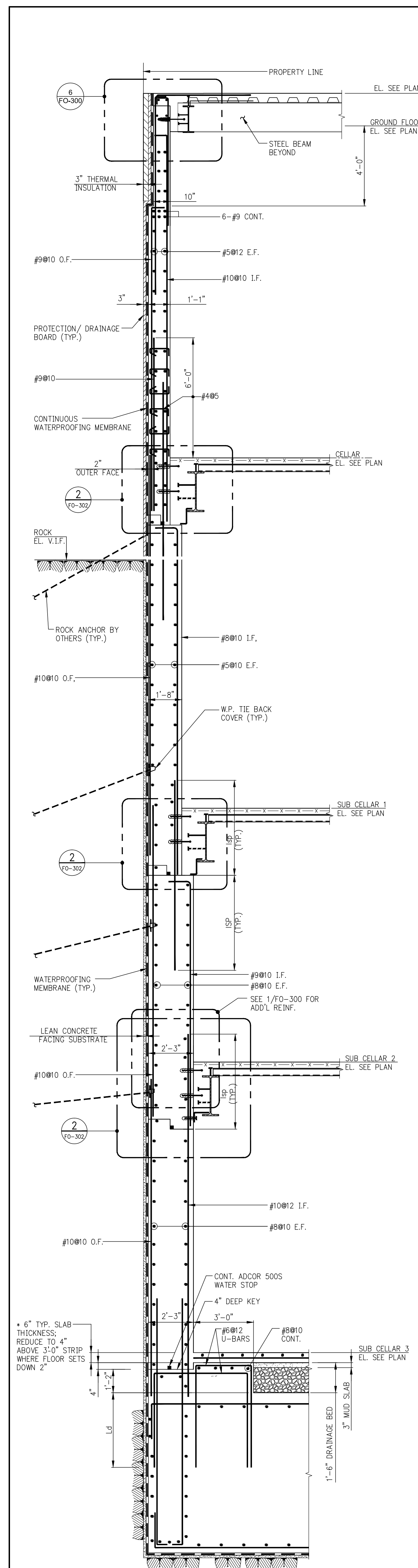
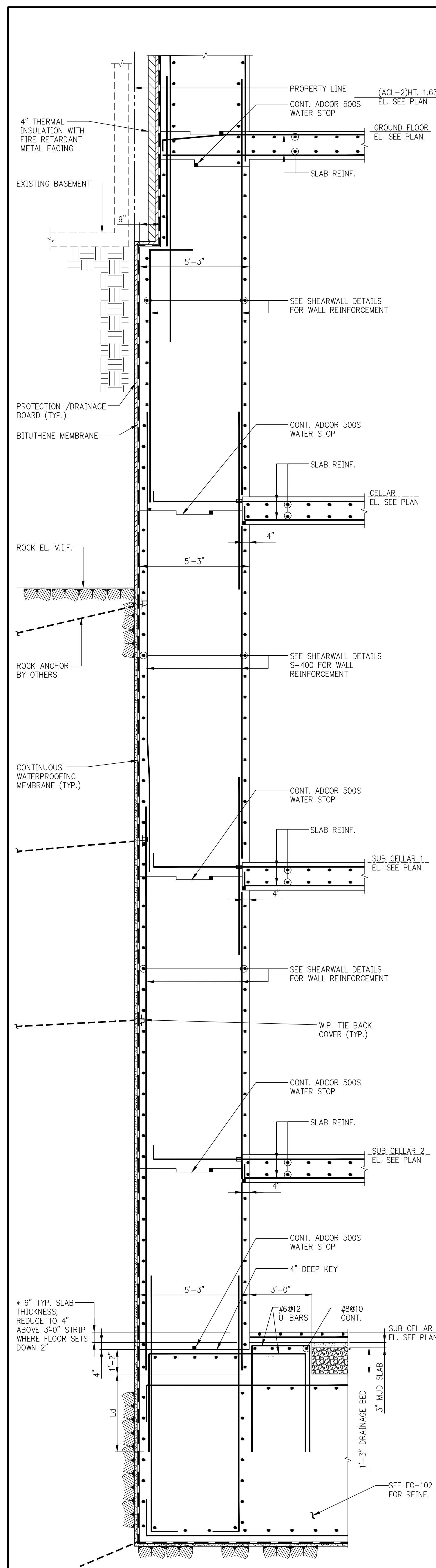
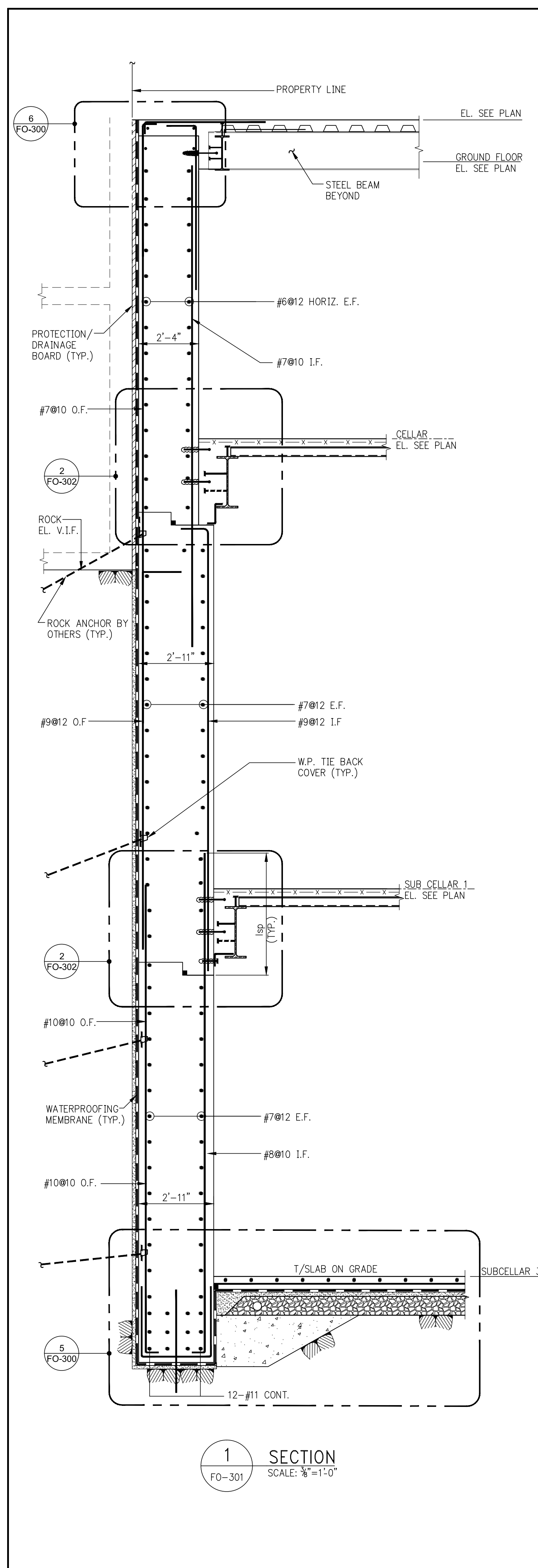
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DEPT OF BLDG & 21532820 Job Number

PROJECT MAP

PROJECT NORTH

DEVELOPER: **EXTELL DEVELOPMENT COMPANY**
805 THIRD AVENUE, 7TH FLOOR
NEW YORK, NY 10022 USA
TEL: 212 712 6000 FAX: 212 712 6100

DESIGN ARCHITECT: **Base Building Shell & Core**
ADRIAN SMITH + GORDON GILL ARCHITECTURE
111 WEST MONROE STREET SUITE 2300
CHICAGO IL 60603
TEL: 312 920 1888 FAX: 312 920 1775

INTERIOR DESIGNER: **Residential**
Rotter Architecture and Design Studio, PLLC
238 Fifth Ave, 7th Floor
New York, NY 10001
TEL: 646 998 7000 FAX: 646 998 7150

ARCHITECT OF RECORD: **Base Building Shell, Core, & Residential**
AAI ARCHITECTS, P.C.
401 West 37th St., 3rd Floor
Toronto, ON M5V 1E7 Canada
TEL: 416 967 1500 FAX: 416 967 7150

STRUCTURAL ENGINEERS: **WSP**
228 East 45th Street
New York, NY 10017 USA
TEL: 212 687 8888 FAX: 646 487 5501

MEP ENGINEERS: **AKF GROUP**
1501 Broadway
New York, NY 10036 USA
TEL: 212 354 5656 FAX: 212 354 5668

GEOTECHNICAL ENGINEERS: **Langan Engineering & Environmental Services**
21 Penn Plaza - 380 West 31st Street, 8th Floor
New York, NY 10001-2727
TEL: 212 479 5400 FAX: 212 479 5444

CODE CONSULTANTS: **Construction Consulting Associates**
100 Church Street
New York, NY 10007
TEL: 212 385 1915 FAX: 212 385 1911

CURTAINWALL CONSULTANT: **A.J.P. Consulting**
40 Worth Street, Suite 805
New York, NY 10013
TEL: 212 757 5559 FAX: 646 219 8508

LANDMARK/PRESERVATION CONSULTANT: **Jan Hird Pokorny Associates, Inc.**
39 West 37th Street, 12A
New York, NY 10018
TEL: 212 759 6462 FAX: 212 759 6540

No.	DESCRIPTION	DATE
1	SCHEMATIC DESIGN	05-31-2014
2	FOUNDATION BID PACKAGE	03-31-2014
3	ISSUED FOR SCHEMATIC DESIGN	04-04-2014
4	FOUNDATION BID PACKAGE	04-04-2014
5	STEEL BID PACKAGE	05-22-2014
6	FOUNDATION 80% CD	05-22-2014
7	SUPERSTRUCTURE CONCRETE BID	06-02-2014
8	DOB FILING SET	06-19-2014
9	FOUNDATION 90% CD	07-01-2014
10	SK - 0005 RESPONSE TO RF1 0008	07-22-2014
11	SE ZONE STEEL BID	08-20-2014
12	STRUCTURAL STEEL BID	09-15-2014
13	CD PROGRESS ISSUE 1	10-15-2014
14	ISSUED FOR CONSTRUCTION	11-07-2014
15	DOB SUBMISSION	12-16-2014
16	CD PROGRESS ISSUE 2	12-16-2014
17	DOB SUBMISSION	02-06-2015

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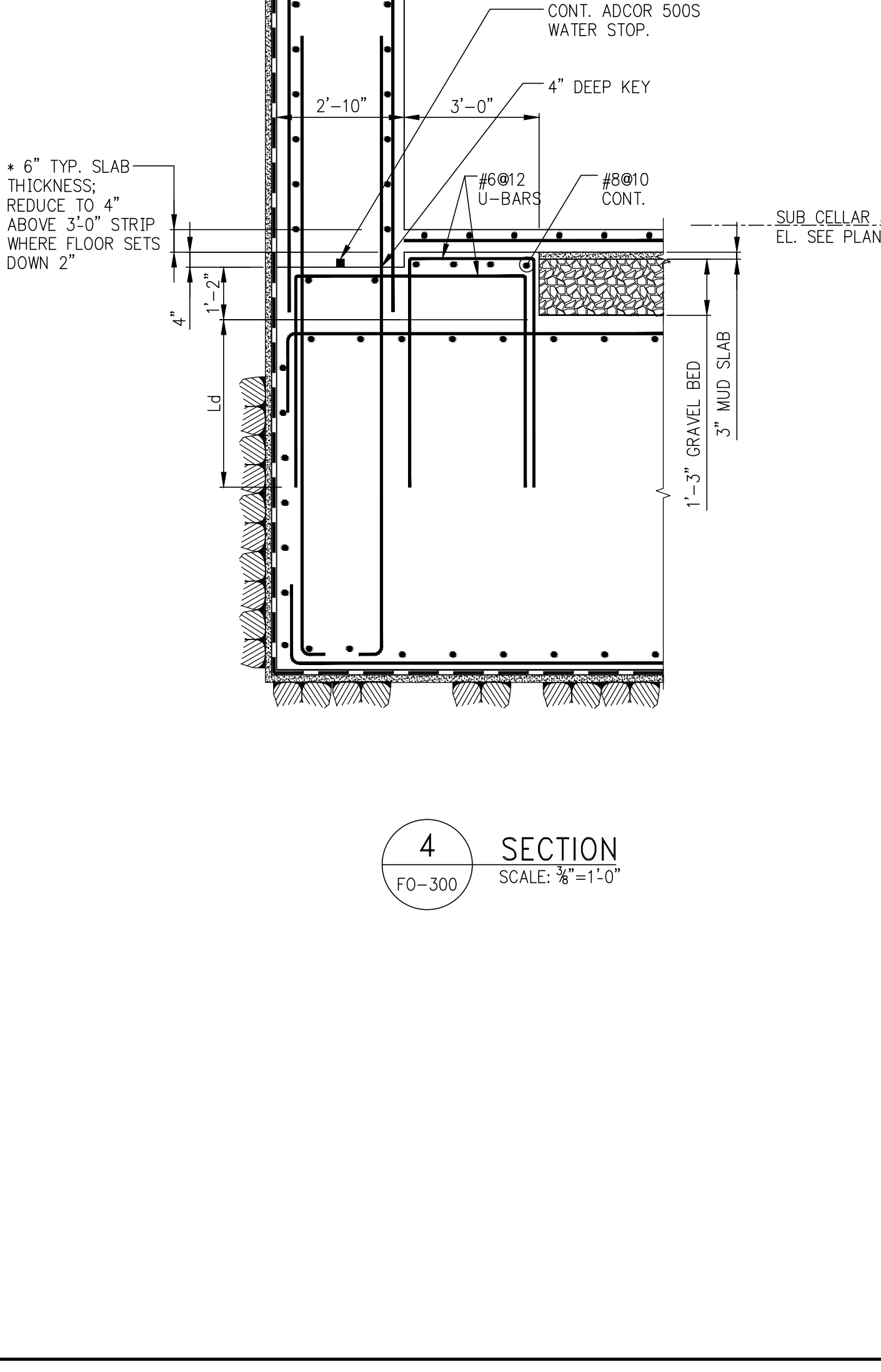
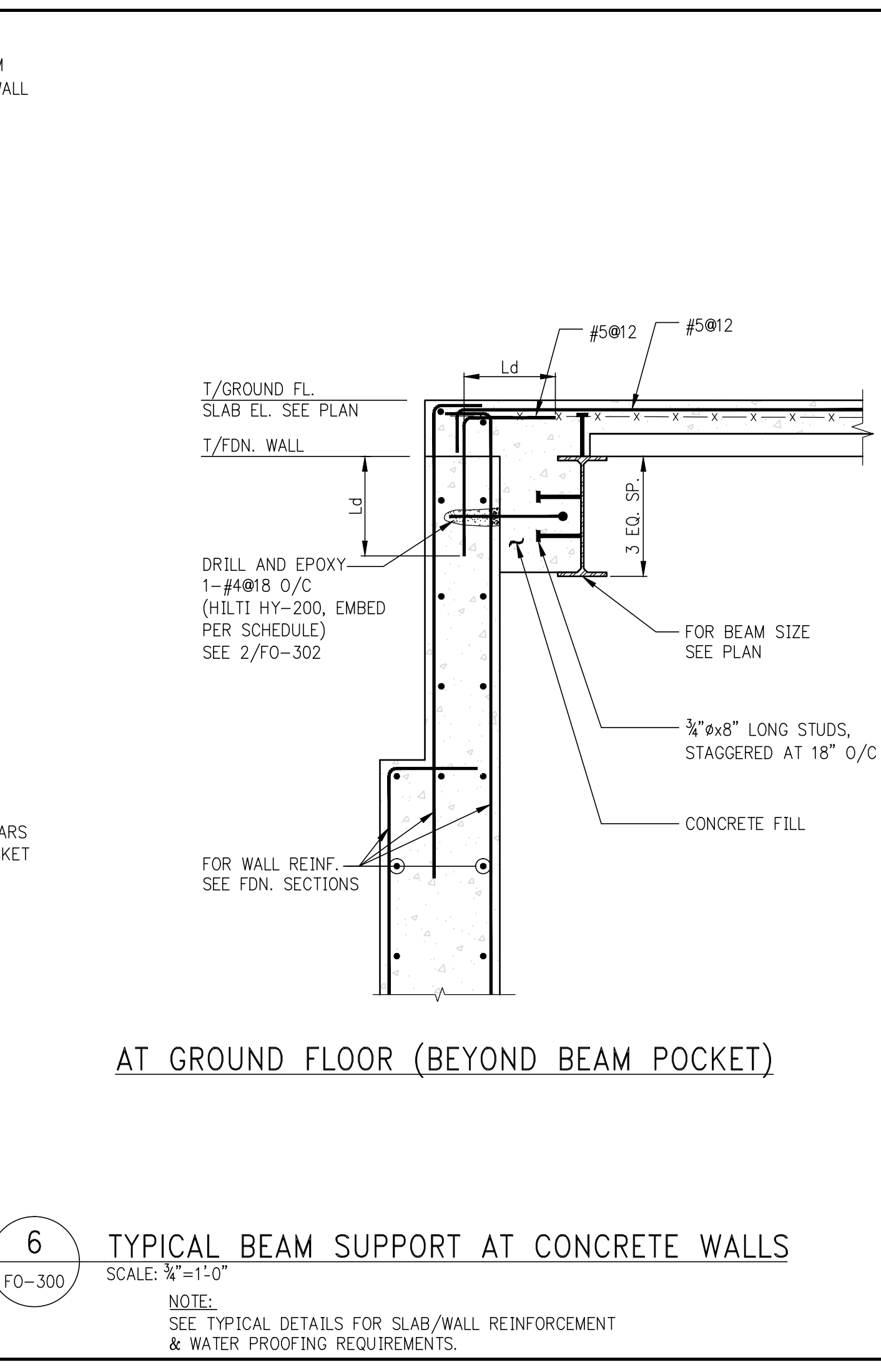
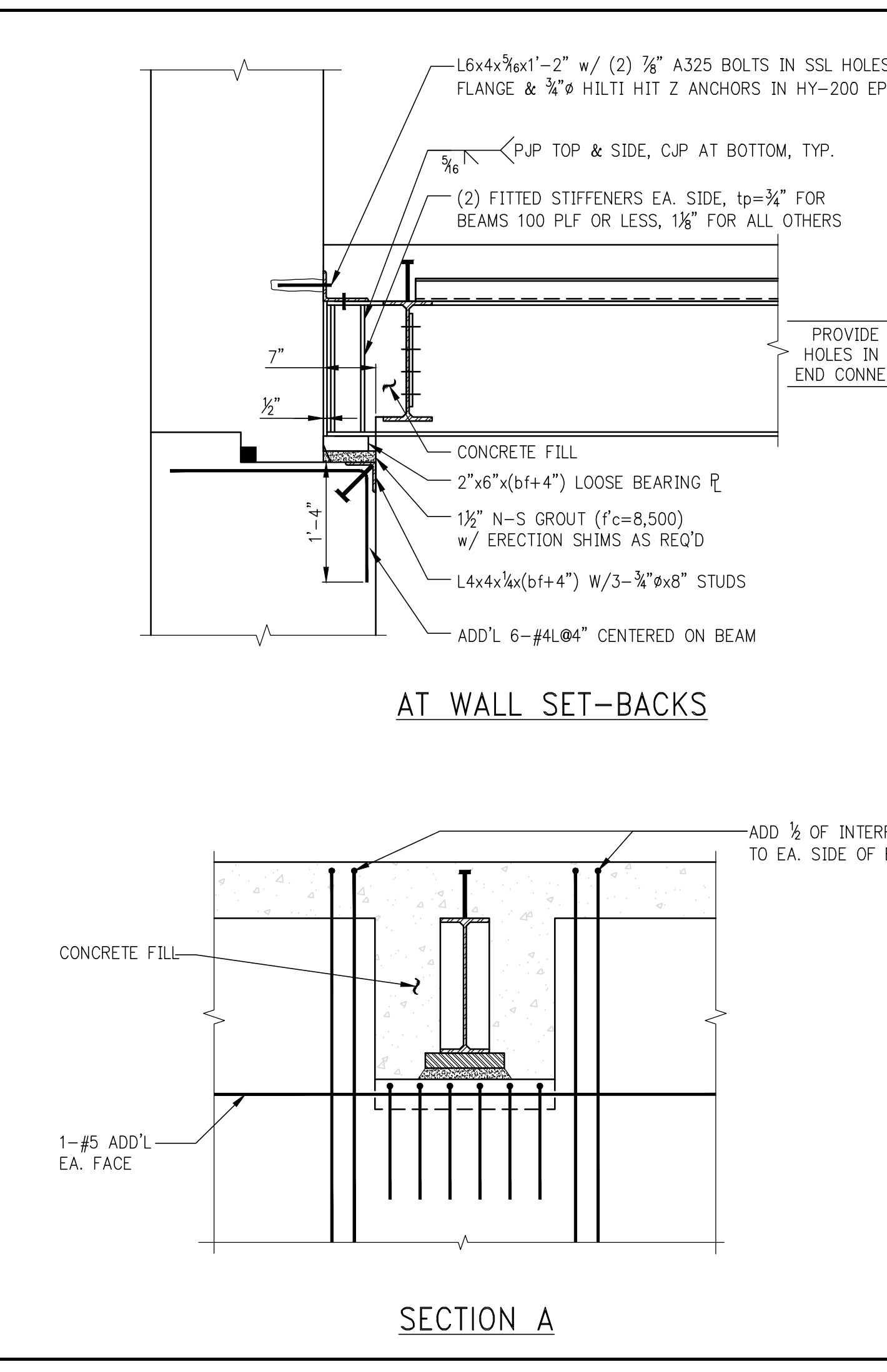
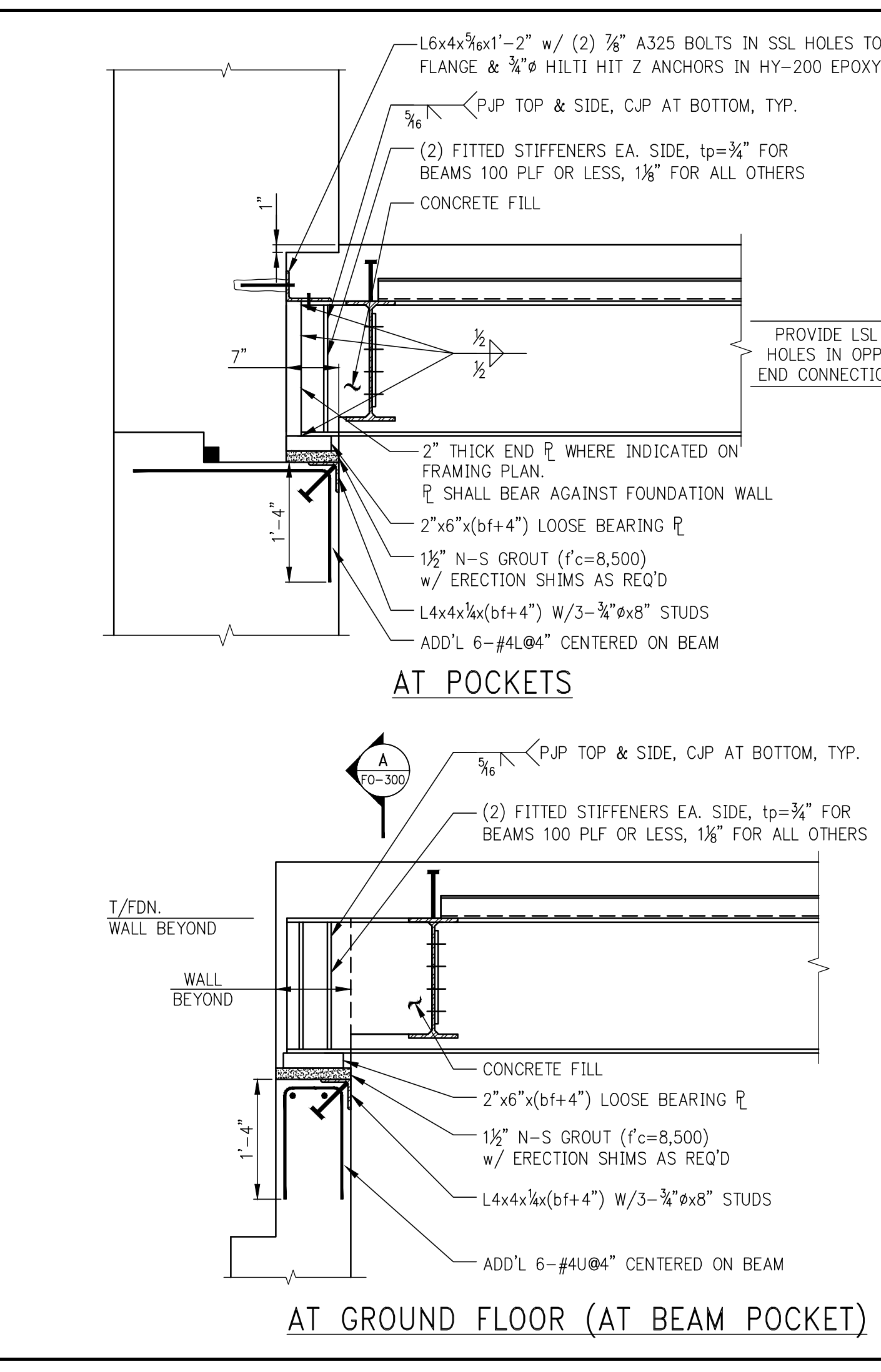
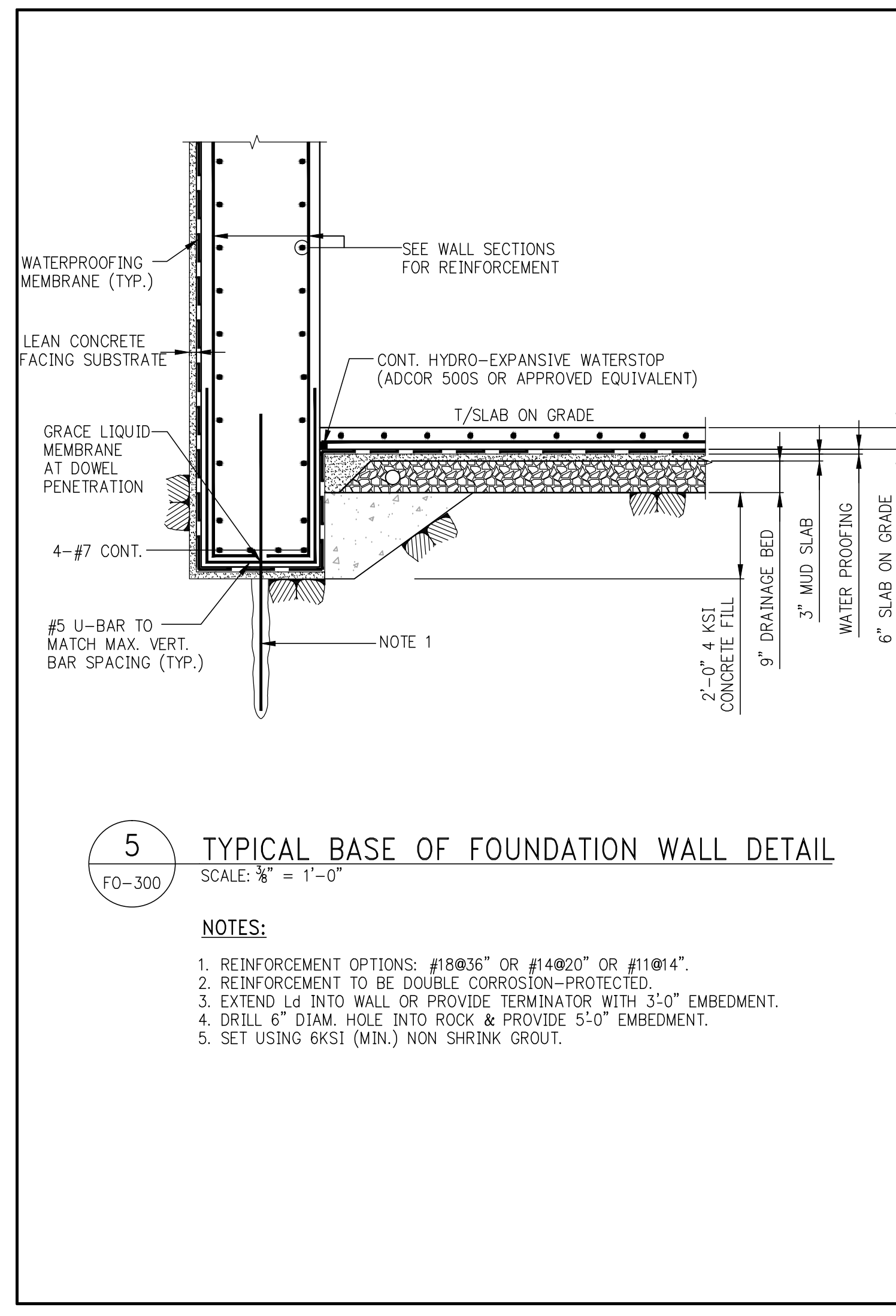
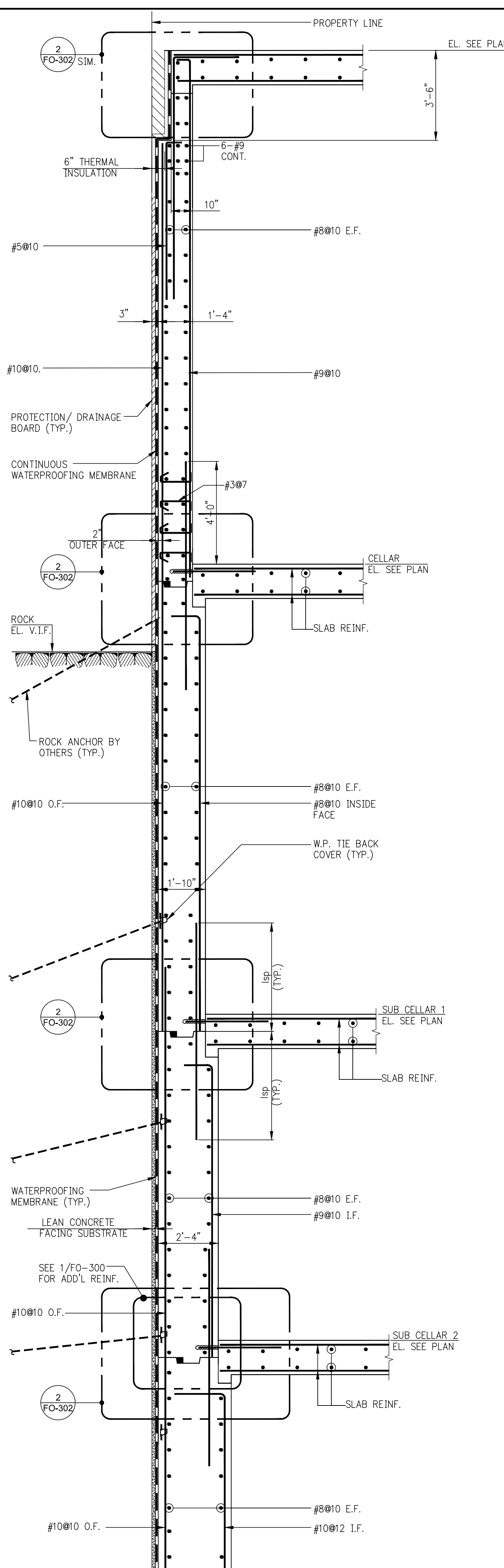
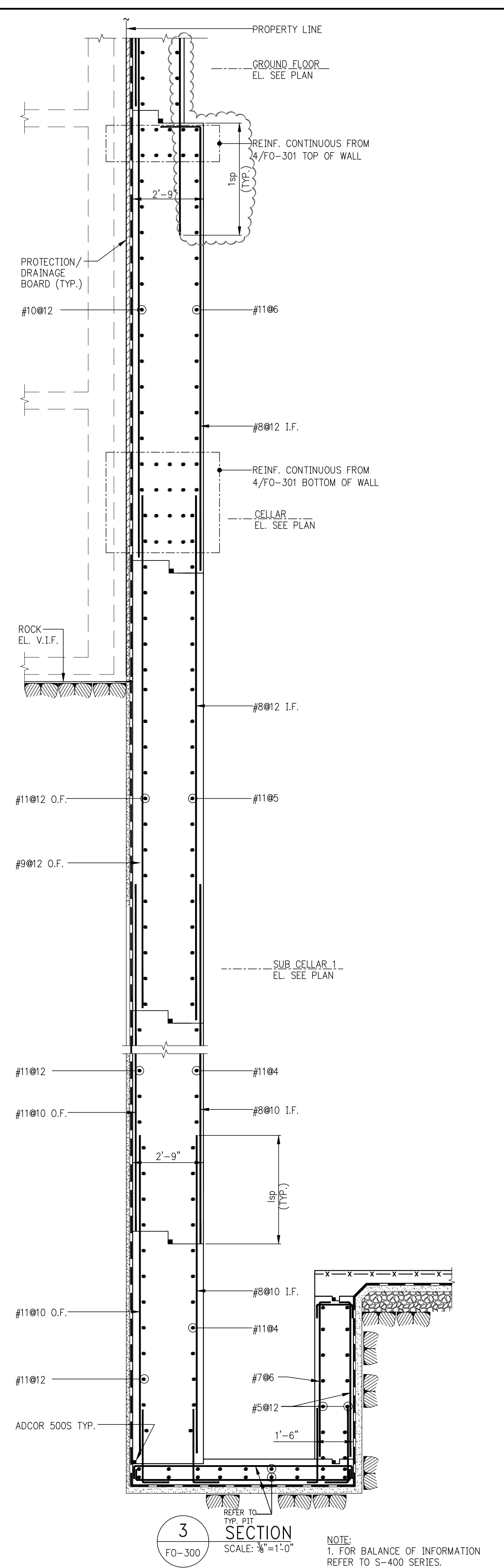
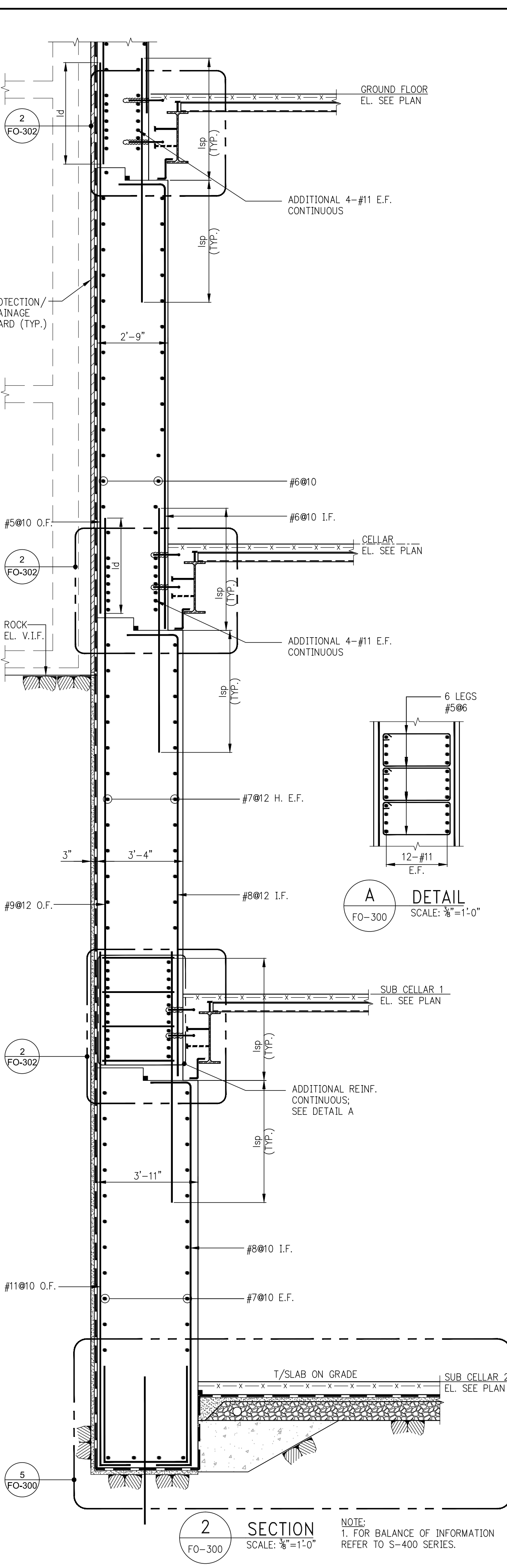
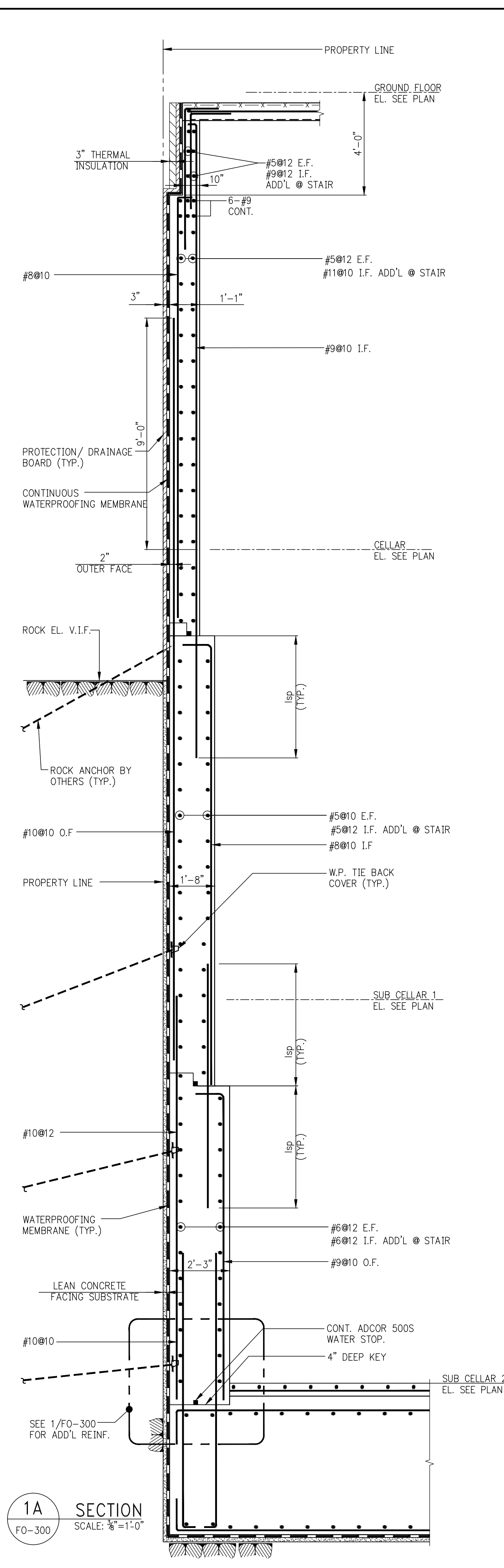
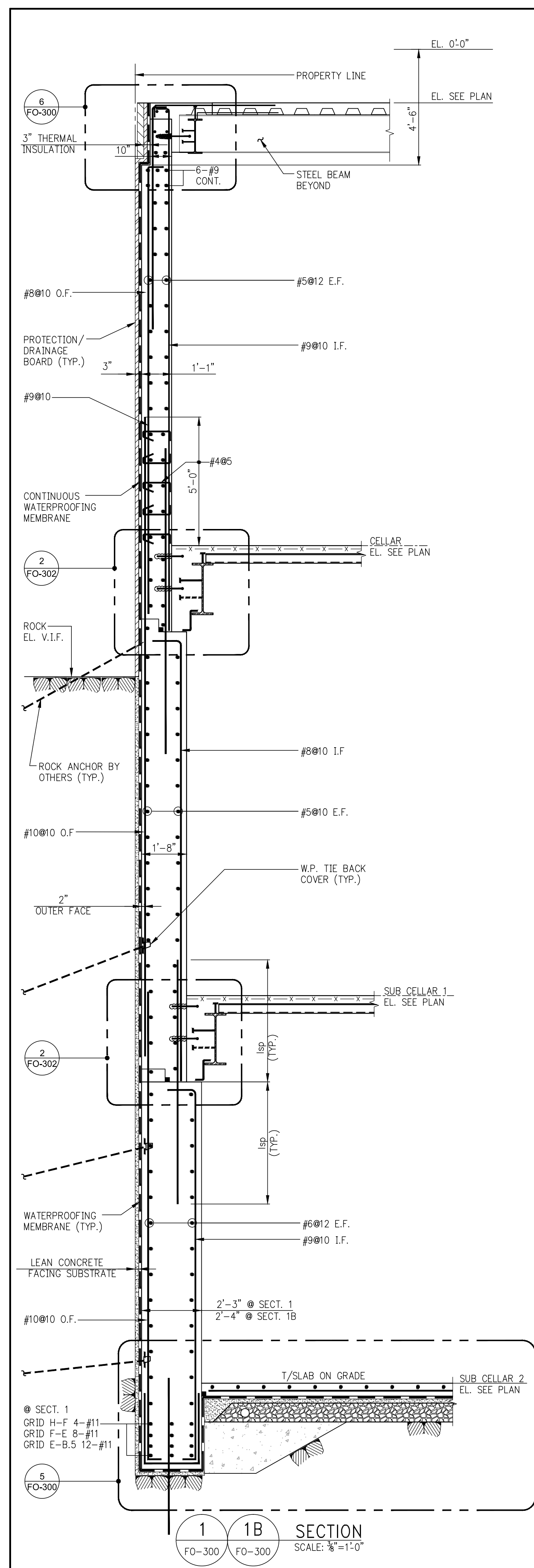
ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

CONSULTANT: **WSP**
228 East 45th Street
New York, NY 10017
(212) 687-8888
www.wspgroup.com/usa

PROJECT: **217 WEST 57TH STREET
NEW YORK, NY**

DRAWING TITLE: **FOUNDATION
SECTIONS 2**

SEAL & SIGNATURE: **WSP**
PROJECT No: 2012185
DRAWN: CADD
CHK: Y.E.
SCALE: AS INDICATED
DWG No: **FO-301.02**
DOB PAGE No: of
DOB EMPLOYEE STAMP: of
DOB B-CAN:



DEPT OF BLDG 12158828

APP NUMBER

KEY PLAN

PROJECT NORTH

TRUE NORTH

DEVELOPER: **EXTELL DEVELOPMENT COMPANY**
805 THIRD AVENUE, 7TH FLOOR
New York, NY 10022 USA
TEL: 212 712 6000 FAX: 212 712 6100

DESIGN ARCHITECT: **Base Building Shell & Core**
ADRIAN SMITH + GORDON GILL ARCHITECTURE
111 WEST MONROE STREET SUITE 2300
CHICAGO IL 60603
TEL: 312 920 1888 FAX: 312 920 1775

INTERIOR DESIGNER: **Residential**
Rottet Architecture and Design Studio, PLLC
238 Fifth Ave, 7th Floor
New York, NY 10001
TEL: 646 998 7000 FAX: 212 479 5444

ARCHITECT OF RECORD: **Base Building Shell, Core, & Residential**
AAI ARCHITECTS, P.C.
401 Washington St., 3rd Floor
Toronto, ON M5V 1E7 Canada
TEL: 416 967 1500 FAX: 416 967 7150

STRUCTURAL ENGINEERS: **WSP**
228 East 45th Street
New York, NY 10017 USA
TEL: 212 687 8868 FAX: 646 487 5501

MEP ENGINEERS: **AKF GROUP**
1501 Broadway
New York, NY 10036 USA
TEL: 212 354 5656 FAX: 212 354 5668

GEOTECHNICAL ENGINEERS: **Langan Engineering & Environmental Services**
21 Penn Plaza - 380 West 31st Street, 8th Floor
New York, NY 10001-2727
TEL: 212 479 5400 FAX: 212 479 5444

CODE CONSULTANTS: **Construction Consulting Associates**
100 Church Street
New York, NY 10007
TEL: 212 385 1915 FAX: 212 385 1911

CURTAINWALL CONSULTANT: **AJLP Consulting**
40 North Street, Suite 805
New York, NY 10013
TEL: 212 757 5659 FAX: 646 219 8508

LANDMARK/PRESERVATION CONSULTANT: **Jan Hird Pokorny Associates, Inc.**
39 West 37th Street, 12A
New York, NY 10018
TEL: 212 759 6462 FAX: 212 759 6540

No.	DESCRIPTION	DATE
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14	ISSUED FOR CONSTRUCTION	11-07-2014
15	DOB SUBMISSION	12-10-2014
16	CD PROGRESS ISSUE 2	12-10-2014
17	DOB SUBMISSION	02-06-2015

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CONSULTANT: **WSP**
228 East 45th Street
New York, NY 10017
(212) 687-8868
www.wspgroup.com/usa

PROJECT: **217 WEST 57TH STREET**
NEW YORK, NY

DRAWING TITLE: **FOUNDATION SECTIONS 1**

SEAL & SIGNATURE: **WSP**
PROJECT No: 2012185
DRAWN: CADD
CHK: Y.E.
SCALE: AS INDICATED
DWG No: **FO-300.02**
DOB EMPLOYEE ID: of
DOB 8-SCAN:

2" MIN. COVER TO MAIN BARS

1/2" MIN. CLEAR SPACE BETWEEN LAYERS

2" MIN. COVER TO MAIN BARS

1/2" MIN. CLEAR SPACE BETWEEN BARS

MULTIPLE LAYERS

PROVIDE MINIMUM COVER AND CLEARANCES SHOWN, USE TABLE 1.1 FOR LAP SPICE LENGTHS.

SURFACE OF CONCRETE

CENTER TO CENTER

NOTES FOR TENSION LAP SPICES

1. REINFORCEMENT IS UNCOATED, WITH F_y=60,000 PSI.
2. CONCRETE IS NORMAL WEIGHT (144--159 lb/cu yd).
3. FOR "TOP" BAR SPICE LENGTHS ("TOP" IS DEFINED BY ACT 354 HAVING MORE THAN TWO INCHES OF FRESH CONCRETE CAST BELOW THE BAR), TABULATED LENGTHS MUST BE MULTIPLIED BY 1.3.
4. LENGTHS TABULATED MUST BE MULTIPLIED BY THE FOLLOWING CORRECTION FACTORS:
 - a. LIGHTWEIGHT CONCRETE1.3
 - b. EPOXY-COATED BARS1.2
 - 1) BARS WITH COVER < 3x d_b OR
WITH CLEAR SPACING < 6d_b :.....1.2 FOR BOTTOM & VERTICAL BARS,
.....1.2 FOR TOP BARS +
 - 2) ALL OTHER CONDITIONS1.2
5. FOR EPOXY-COATED "TOP" BARS THE MAXIMUM FOR COMBINED FACTORS = 1.7
6. WHERE TENSION DEVELOPMENT LENGTH (d_d) IS REQUIRED ON PLANS, SEE DETAILS, SEE TENSION DEVELOPMENT LENGTH TABLES.
7. CLASS A LAP SPICE LENGTHS ARE EQUAL TO TENSION DEVELOPMENT LENGTHS. SEE TABLES FOR TENSION DEVELOPMENT LENGTHS (d_d). APPLY APPROPRIATE MODIFICATION FACTORS TO CLASS A SPICE LENGTHS.

NOTES FOR TENSION DEVELOPMENT

LENGTHS (L_d)

- 1. REINFORCEMENT IS UNCOATED, WITH $F_y=60,000$ PSI.
- 2. CONCRETE IS NORMAL WEIGHT (144--150/CF.)
- 3. FOR "TOP" BAR DEVELOPMENT LENGTHS ("TOP" IS DEFINED BY ACI 318 AS HAVING MORE THAN 12 INCHES OF FRESH CONCRETE CAST ABOVE THE BAR), TABULATED LENGTHS MUST BE MULTIPLIED BY 1.3.
- 4. LENGTHS TABULATED MUST BE MULTIPLIED BY THE FOLLOWING MODIFICATION FACTORS:
 - a. LIGHTWEIGHT CONCRETE 1.3
 - b. EPOXY-COATED BARS:
 - 1) BARS WITH COVER $< 3d_b$, OR
WITH CLEAR SPACING $< 3d_b$ 1.5 FOR BOTTOM &
VERTICAL BARS.
 - 2) ALL OTHER CONDITIONS 1.2 FOR TOP BARS *
 - c. FOR EPOXY-COATED "TOP" BARS THE MAXIMUM FOR COMBINED FACTORS = 1.7
- 5. WHERE TENSION DEVELOPMENT LENGTH (L_d) IS REQUIRED ON PLANS OR IN DETAILS, SEE TENSION DEVELOPMENT LENGTH TABLES.
- 6. CLASS A LAP SPlice LENGTHS ARE EQUAL TO TENSION DEVELOPMENT LENGTHS. SEE TABLES FOR TENSION DEVELOPMENT LENGTHS (L_d). * APPLY APPROPRIATE MODIFICATION FACTORS TO CLASS A SPlice LENGTHS.

<div>TABLE #3</div> <div>TENSION DEVELOPMENT LENGTHS FOR STANDARD END HOOKS (ldh)</div> <div>(LENGTHS IN INCHES)</div>										
BAR SIZE	CONCRETE STRENGTH (PSI)									
	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000		
#3	9	7	7	6	6	6	6	6		
#4	11	10	9	8	7	7	7	8		
#5	14	12	11	10	9	9	8	8		
#6	17	15	13	12	11	10	10	9		
#7	19	17	15	14	13	12	11	11		
#8	22	19	17	16	15	14	13	12		
#9	25	22	19	18	16	15	15	14		
#10	28	24	22	20	19	17	17	16		
#11	31	27	24	22	21	19	18	17		
#14	37	32	29	27	25	23	22	21		
#18	50	43	39	35	33	31	29	27		

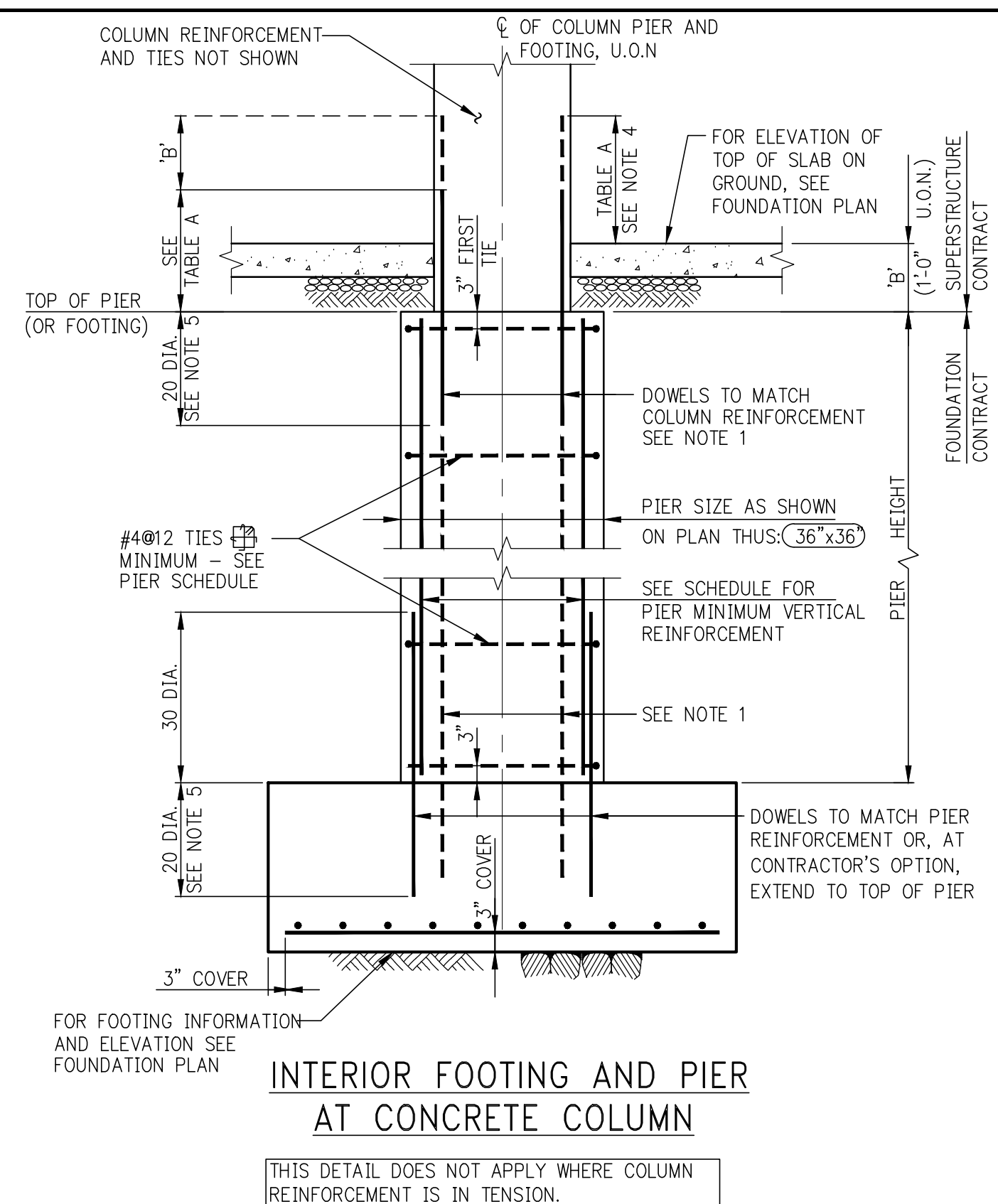
NOTES:

- TABLE 2 CONFORMS TO ACI 318-2002 (AND 2005). TABULATED VALUES ARE BASED UPON ACI 308.2 ASSUMING GRADE 60 REINFORCEMENT AND NORMALWEIGHT CONCRETE.
- PER ACI 12.5.3 a), FOR #11 AND SMALLER BARS, IF COVER TO BAR IS 25 INCHES OR MORE, AND FOR 90 DEGREE HOOK WITH COVER ON BAR EXTENSION BEYOND HOOK NOT LESS THAN 2 INCHES, A MODIFICATION FACTOR OF 0.7 MAY BE APPLIED. MINIMUM LID SHALL NOT BE LESS THAN 800 OR 6 INCHES.

TABLE #4 COMPRESSION LAP SPICES (LENGTHS IN INCHES)				
BAR SIZE	GRADE OF REINFORCEMENT			
	60 KSI (30 DIA.)	42 DIA.	80 KSI (48 DIA.)	
#3	12	17	18	
#4	15	22	24	
#5	19	28	30	
#6	23	33	36	
#7	27	39	42	
#8	30	44	48	
#9	34	50	54	
#10	38	56	61	
#11	43	62	68	

NOTE:
TABLE #3 APPLIES FOR NORMALWEIGHT
CONCRETE WITH $f'_c = 3,000$ PSI OR
GREATER.

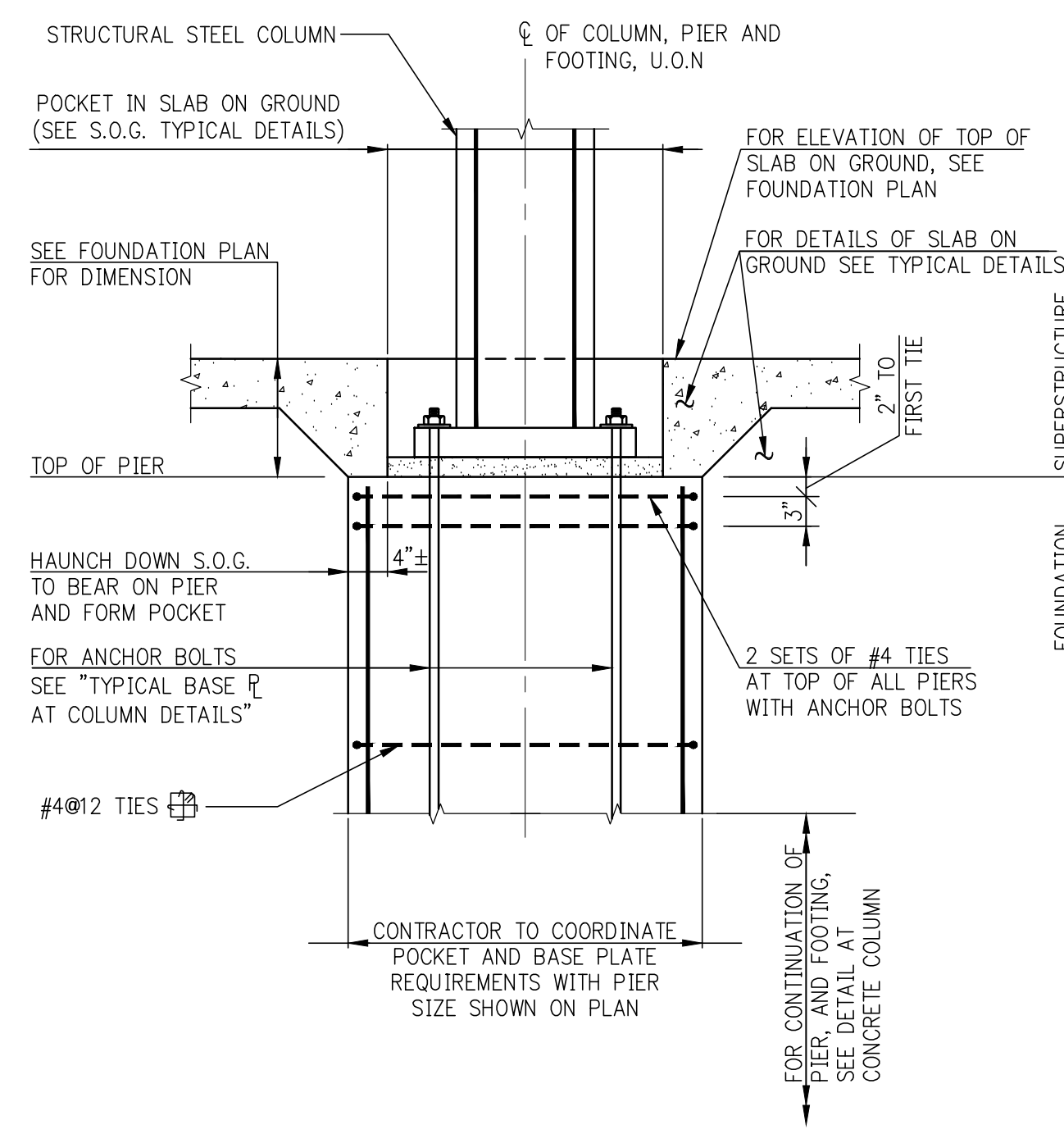
BAR SIZE	fy = 60,000 PSI			fy = 75,000 PSI			fy = 80,000 PSI		
	CONC. FC (IN PSI)			CONC. FC (IN PSI)			CONC. FC (IN PSI)		
	3,000	4,000	5,000 OR MORE	3,000	4,000	5,000 OR MORE	3,000	4,000	5,000 OR MORE
#3	12	12	12	12	12	12	12	12	12
#4	12	12	12	14	12	12	15	13	12
#5	14	12	12	17	15	14	18	16	15
#6	17	15	14	21	18	17	22	19	18
#7	19	17	16	24	21	20	26	22	21
#8	22	19	18	28	24	23	29	25	24
#9	25	22	21	31	27	25	33	28	27
#10	28	24	23	34	30	28	36	31	30
#11	31	27	26	38	33	31	40	34	33
#14	37	32	31	48	42	39	51	44	42
#18	50	43	41	62	54	51	65	56	54



PIER: MINIMUM VERTICAL REINFORCEMENT	
PIER SIZE (OR EQUIVALENT)	VERTICAL REINF.
UP TO 36x36	8-#6
37x37 TO 48x48	12-#6
49x49 TO 54x54	12-#7
55x55 TO 66x66	16-#7
67x67 TO 84x84	16-#8
OVER 84 TO BE SUPPLIED IN PIER SCHEDULE	

NOTE:
THE PIER SCHEDULE MAY REQUIRE A
GREATER AMOUNT OF REINFORCEMENT
BUT NOT LESS.

TABLE A		
COMPRESSION LAP SPLICE LENGTH		
BAR SIZE	$f_y=60$ KSI	$f_y=75$ KSI
#5 TO #11	30 DIA.	44 DIA.
#14 & #18	45"-#11 DOWELS	60"-#11 DOWELS



INTERIOR PIER AT STEEL COLUMN

KEY PLAN:		
PROJECT NORTH	TRUE NORTH	
DEVELOPER: EXTELL DEVELOPMENT COMPANY 805 THIRD AVENUE, 17TH FLOOR NEW YORK, NY 10022 USA TEL: 212 712 6000 FAX: 212 712 6100		
DESIGN ARCHITECT: Base Building Shell & Core ADRIAM SMITH + GORDON GILL ARCHITECTURE 111 WEST MORE STREET SUITE 2300 CHICAGO IL 60603 TEL: 312 920 1888 FAX: 312 920 1775		
INTERIOR DESIGNER: Residential Rotte Architecture and Design Studio, PLLC 208 Fifth Ave. 7th Floor New York, NY 10001 FAX: 646 598 7000		
ARCHITECT OF RECORD: Base Building Shell, Core, & Residential MAI ARCHITECTS, P.C. 401 Wellington St., 3rd Floor Toronto, ON M5V 1E7 Canada TEL: 416 967 1500 FAX: 416 967 7150		
STRUCTURAL ENGINEERS: WSP 228 EAST 45th Street New York, NY 10017 USA TEL: 212 687 9888 FAX: 646 487 4501		
MEP ENGINEERS: AKF GROUP 1501 Broadway New York, NY 10036 USA TEL: 212 354 5656 FAX: 212 354 5668		
GEOTECHNICAL ENGINEERS: Langen Engineering & Environmental Services 21 Penn Plaza - 350 West 31st Street, 8th Floor New York, NY 10001-2727 TEL: 212 479 5400 FAX: 212 479 5444		
CODE CONSULTANTS: Construction Consulting Associates 100 Church Street New York, NY 10007 TEL: 212 385 1918 FAX: 212 385 1911		
CURTAINWALL CONSULTANT: AJLP Consulting 40 Worth Street, Suite 626 New York, NY 10013 TEL: 212 757 5659 FAX: 646 219 8508		
LANDMARK/PRESERVATION CONSULTANT: Jan Hird Pokorny Associates, Inc. 95 West 37th Street, 12A New York, NY 10018 TEL: 212 759 6462 FAX: 212 759 6540		
No.	DESCRIPTION	DATE
1	SCHEMATIC DESIGN	03-31-2014
2	FOUNDATION BID PACKAGE	03-31-2014
3	ISSUED FOR SCHEMATIC DESIGN	04-04-2014
4	FOUNDATION BID PACKAGE	04-04-2014
5	STEEL BID PACKAGE	05-22-2014
6	FOUNDATION 80% CD	05-22-2014
7	SUPERSTRUCTURE CONCRETE BID	06-04-2014
8	DOB FILING SET	06-17-2014
9	FOUNDATION 90% CD	07-01-2014
10	STRUCTURAL STEEL BID	09-15-2014
11	CD PROGRESS ISSUE 1	10-15-2014
12	DOB SUBMISSION	12-19-2014
13	DOB SUBMISSION	02-05-2015

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CONSULTANT



228 East 45th Street
New York, NY 10017
(212) 697-9888
www.wspgroup.com/usa

PROJECT

217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE

TYPICAL FOUNDATION
DETAILS 4

SEAL & SIGNATURE

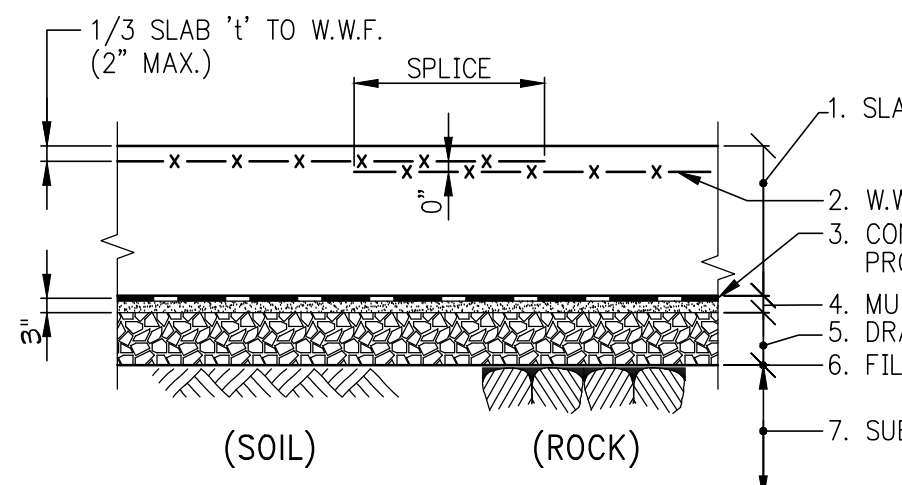


DATE:	03/31/1
PROJECT No:	201218

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FO-203.02

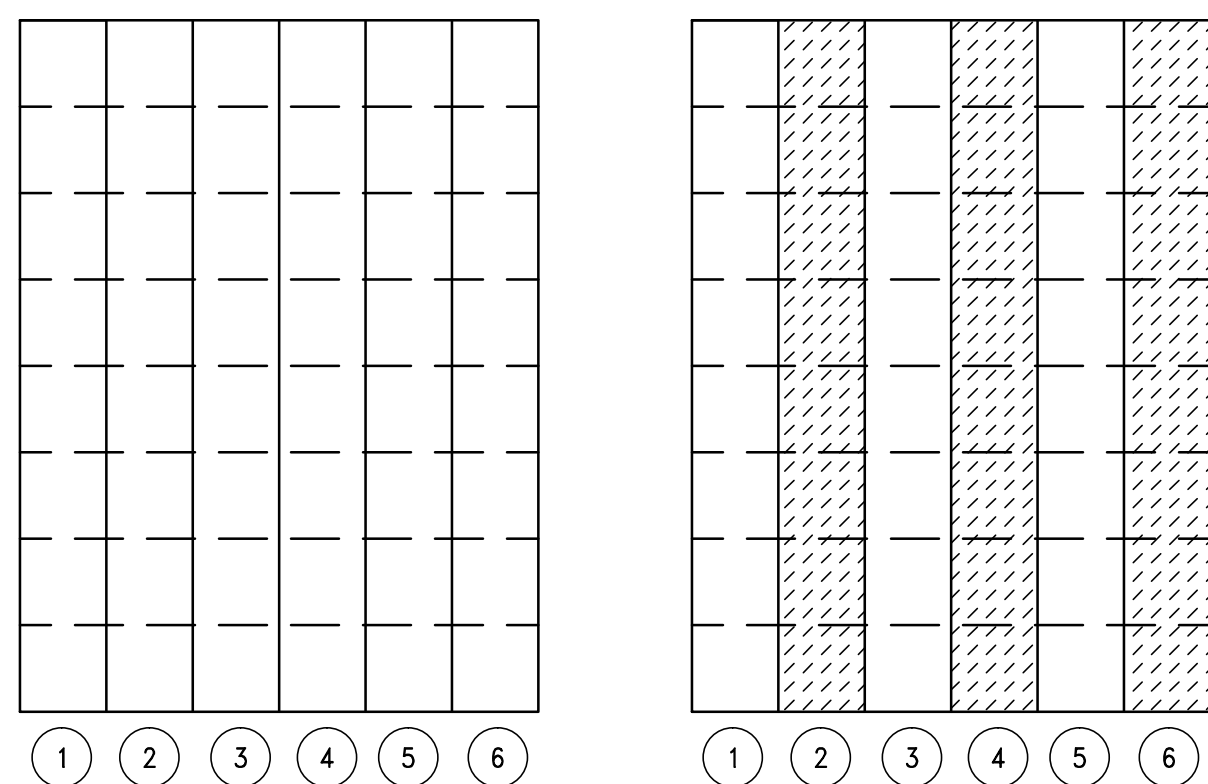
OB PAGE No:	of
	DOB B-SCA



TYPICAL DETAIL - SLAB ON GROUND

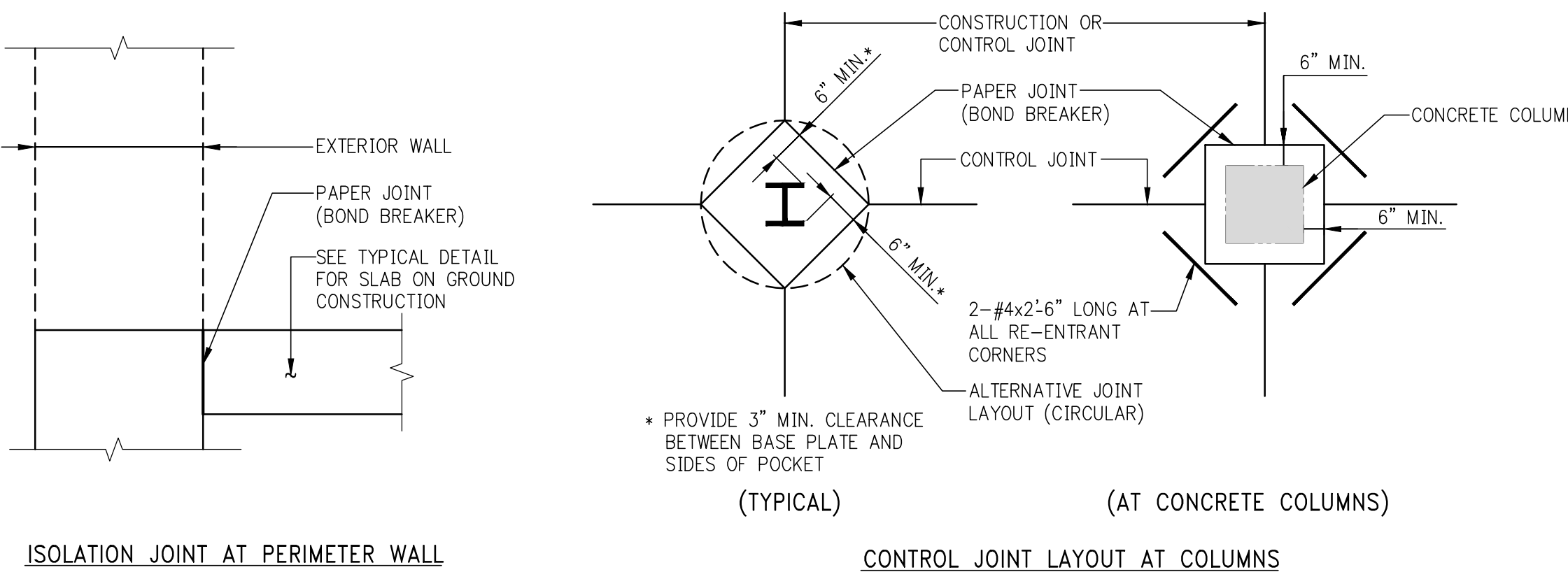
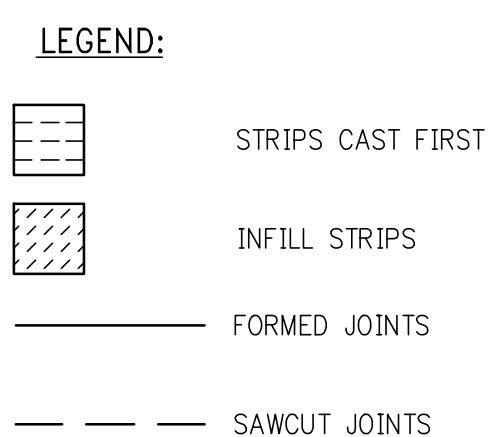
- NOTES:
1. SLAB THICKNESS "1"=6" UNLESS OTHERWISE NOTED ON PLANS.
 2. W.W.F. REINFORCEMENT: SEE TABLE.
 3. GRADE PREPARE WATER PROOFING MEMBRANE ON 3" MUD SLAB.
 4. 9" LAYER 3/4" CLEAN CRUSHED STONE.
 5. FILTER FABRIC.
 6. SUB GRADE COMPACTED FILL, BACKFILL OR UNDISTURBED SOIL OR LEVELED ROCK SURFACE.

SLAB '1'	SLAB REINFORCEMENT (UNLESS OTHERWISE NOTED) W.W.F.
5"	6 x 6 - W2.1 x W2.1
6"-7"	8 x 6 - W2.9 x W2.9
8"-9"	6 x 6 - W4.0 x W4.0
10" OR MORE	REBAR PER DRAWINGS

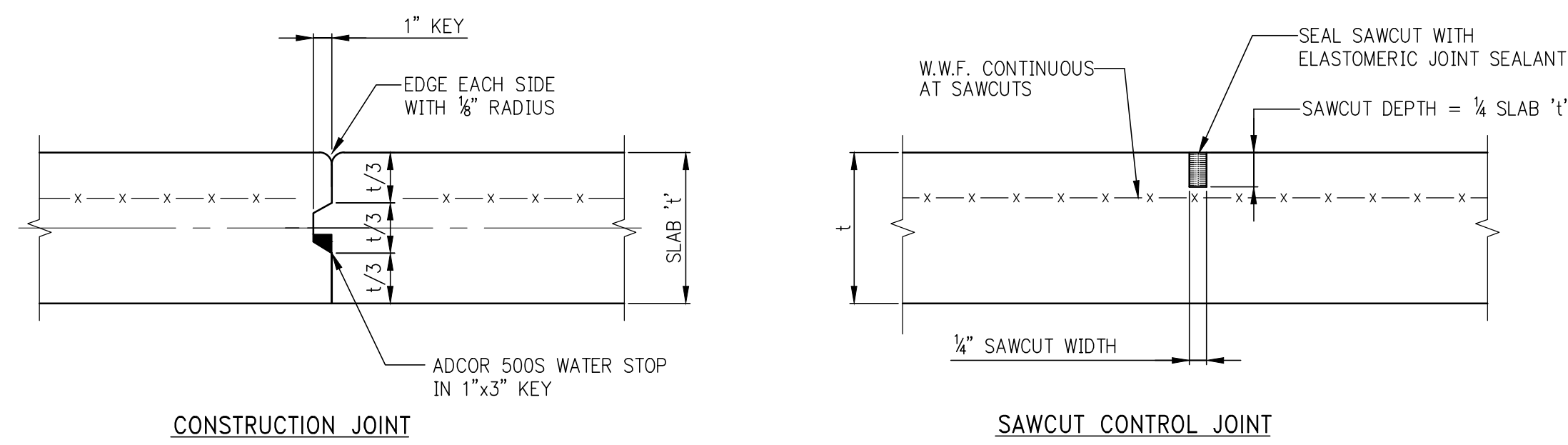


SUGGESTED SEQUENCE OF CASTING STRIPS

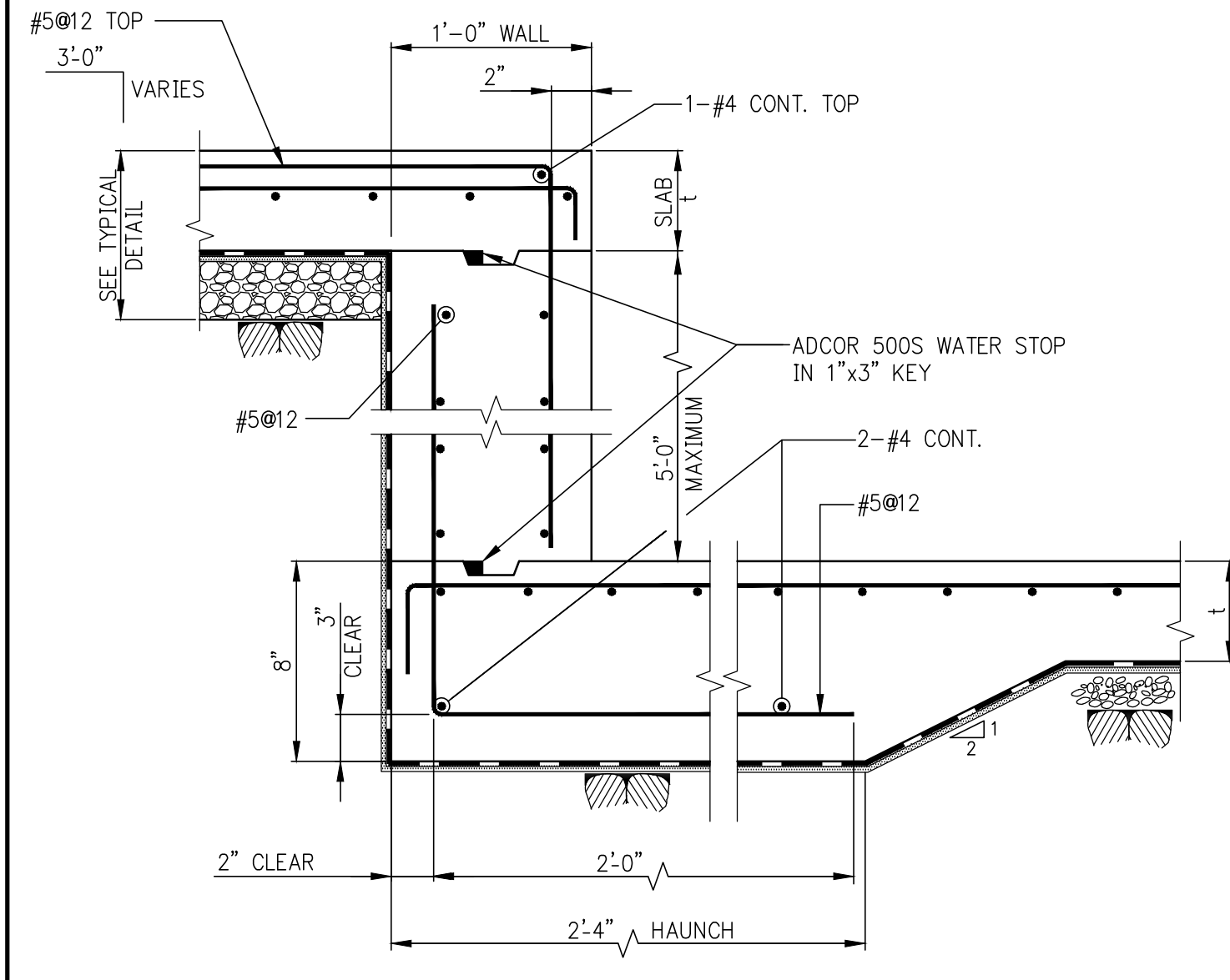
- SLAB ON GROUND NOTES:
1. SLAB ON GROUND SHALL BE PLACED IN STRIPS, AS SHOWN IN "SUGGESTED SEQUENCE OF CASTING STRIPS".
 2. CONTROL JOINTS SHALL BE SAWCUT AS SOON AS CONCRETE IS HARD ENOUGH NOT TO BE TORN OR DAMAGED BY THE BLADE, AND BEFORE THE CONCRETE STARTS TO COOL. TYPICALLY JOINTS SHOULD BE CUT 4 TO 12 HOURS AFTER THE SLAB HAS BEEN FINISHED, DEPENDING UPON WEATHER AND JOB CONDITIONS.
 3. SPACING OF SAWCUT CONTROL JOINTS (IN FEET) TO BE APPROXIMATELY THREE TIMES THE SLAB THICKNESS IN INCHES, WITH A MAXIMUM OF TWENTY (20) FEET.
 4. A MAXIMUM RATIO OF 1:5 SHALL BE MAINTAINED BETWEEN LONG AND SHORT DIMENSIONS OF PANELS FORMED BY CONSTRUCTION AND CONTROL JOINTS.



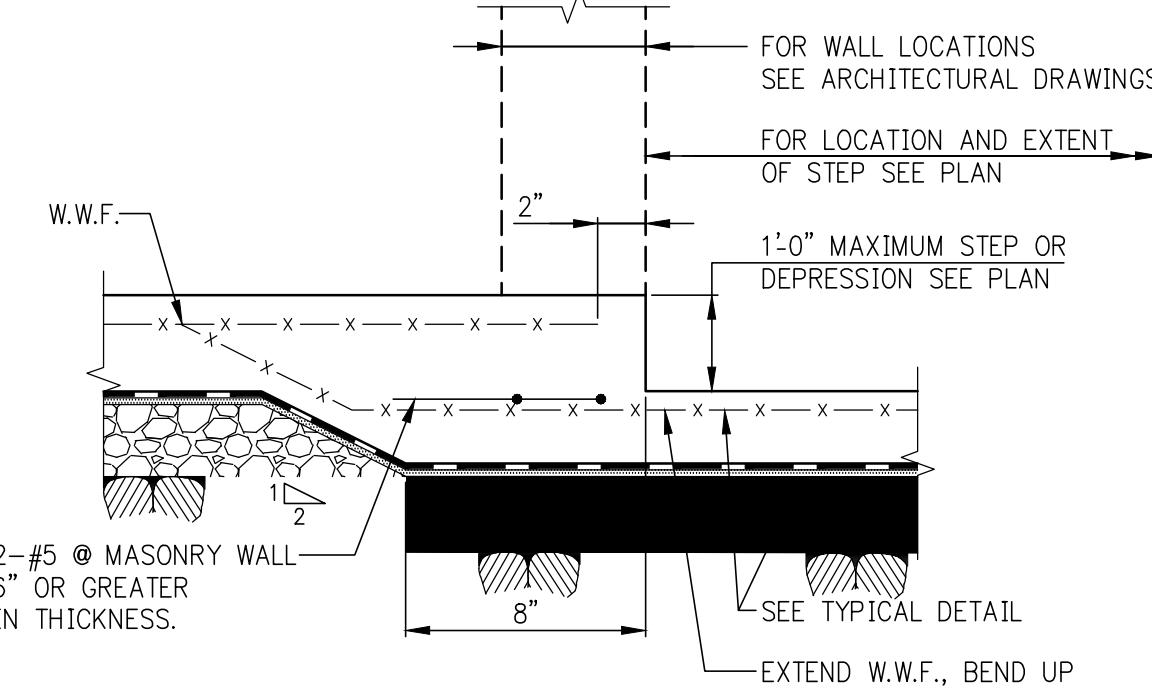
ISOLATION JOINT AT PERIMETER WALL



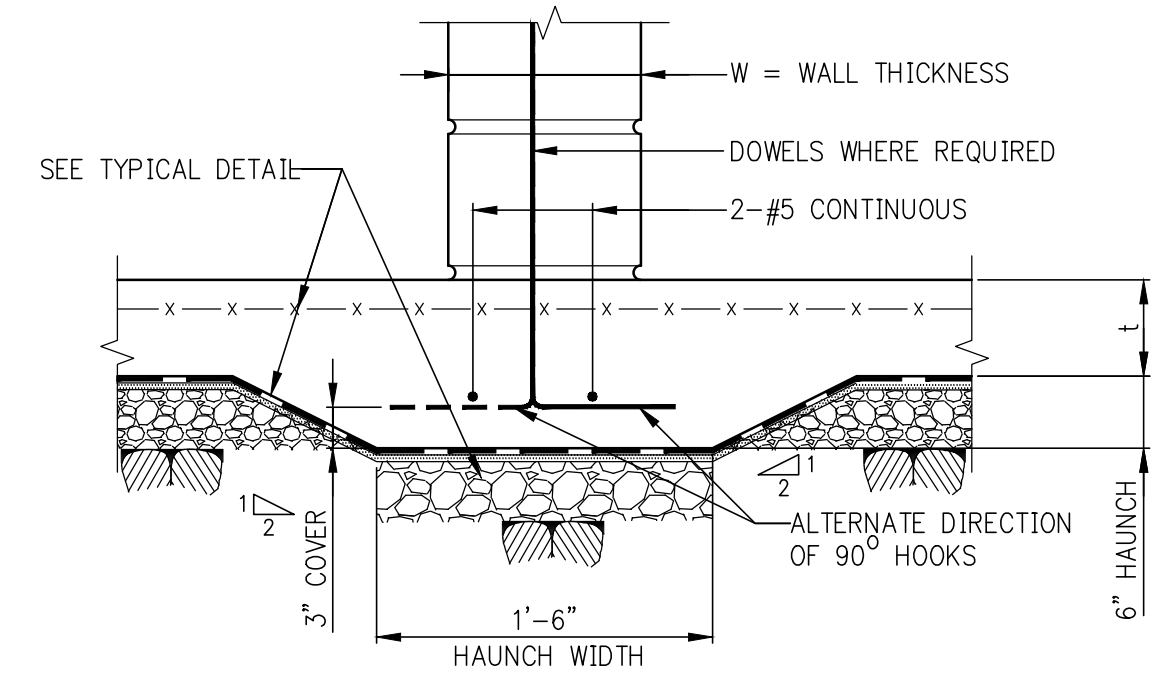
SLAB ON GROUND JOINT DETAILS



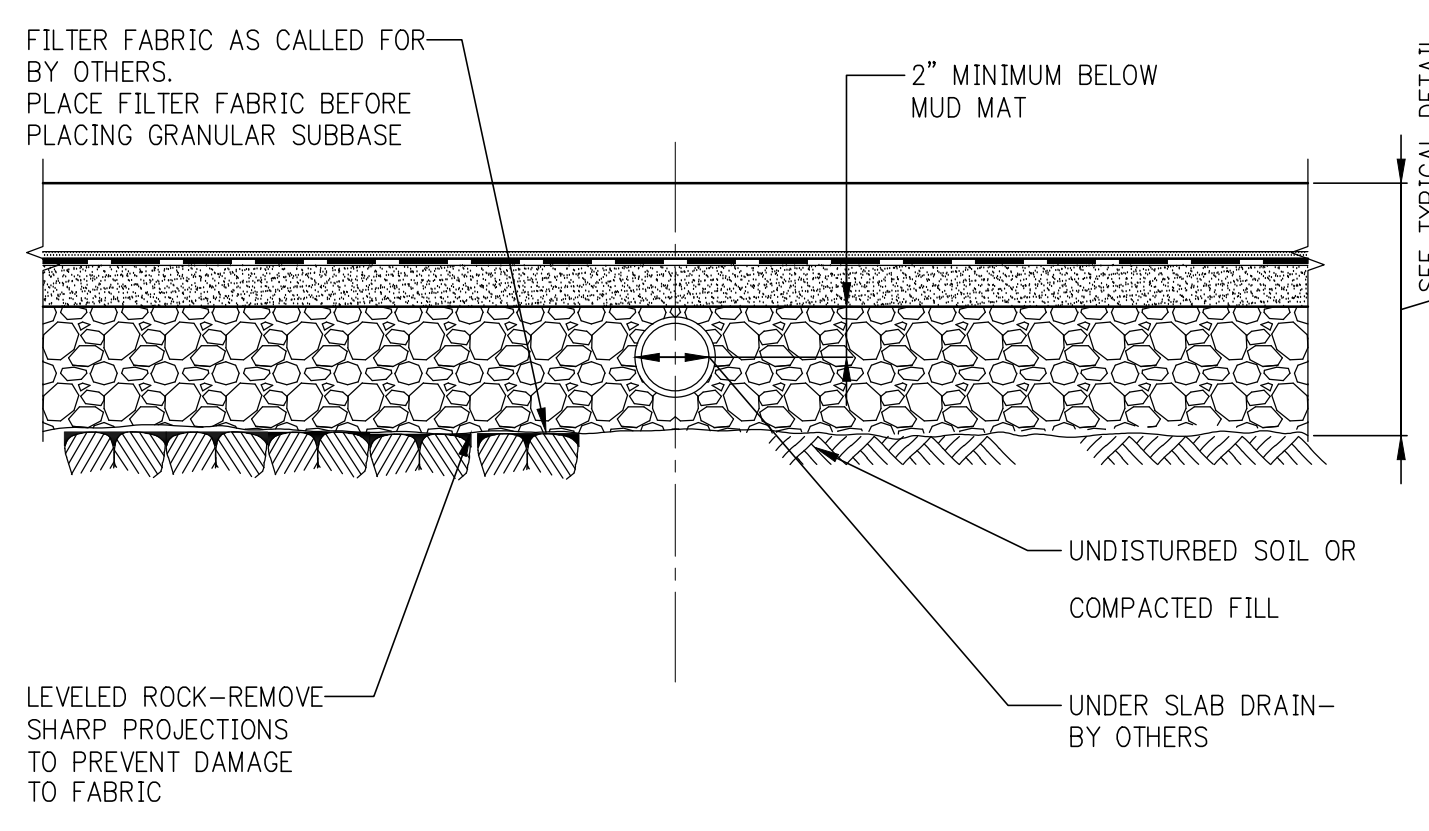
SLAB ON GROUND STEP OR DEPRESSION GREATER THAN 1'-0"



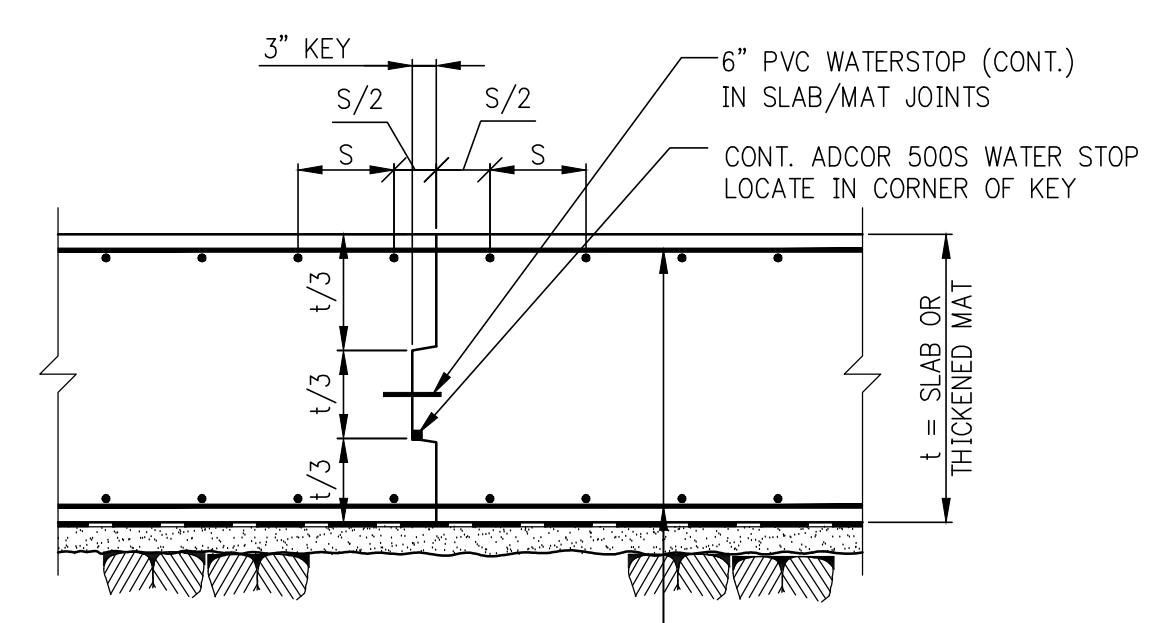
SLAB ON GROUND STEP OR DEPRESSION 1'-0" OR LESS



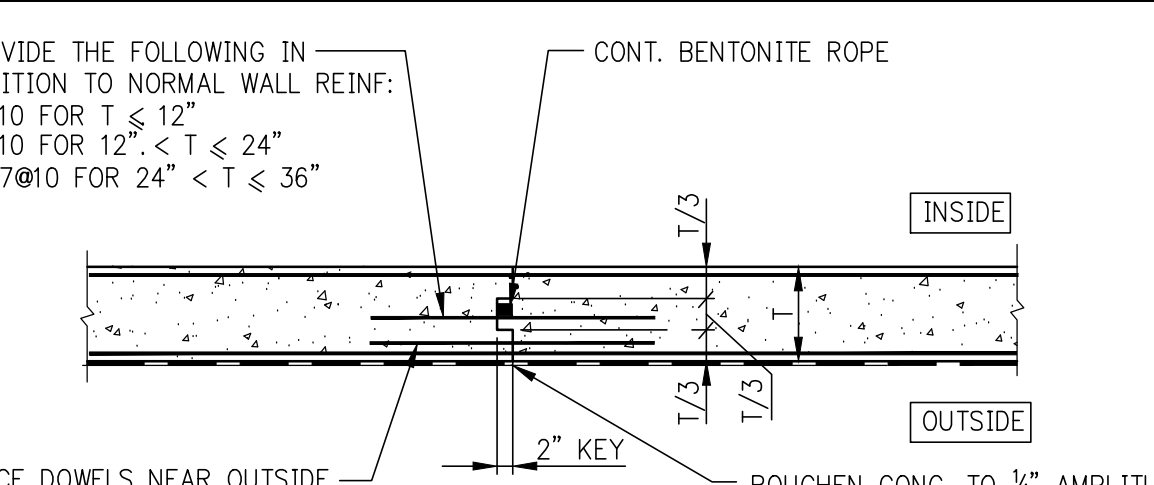
THICKENED SLAB AT MASONRY WALLS 6" THICK OR GREATER



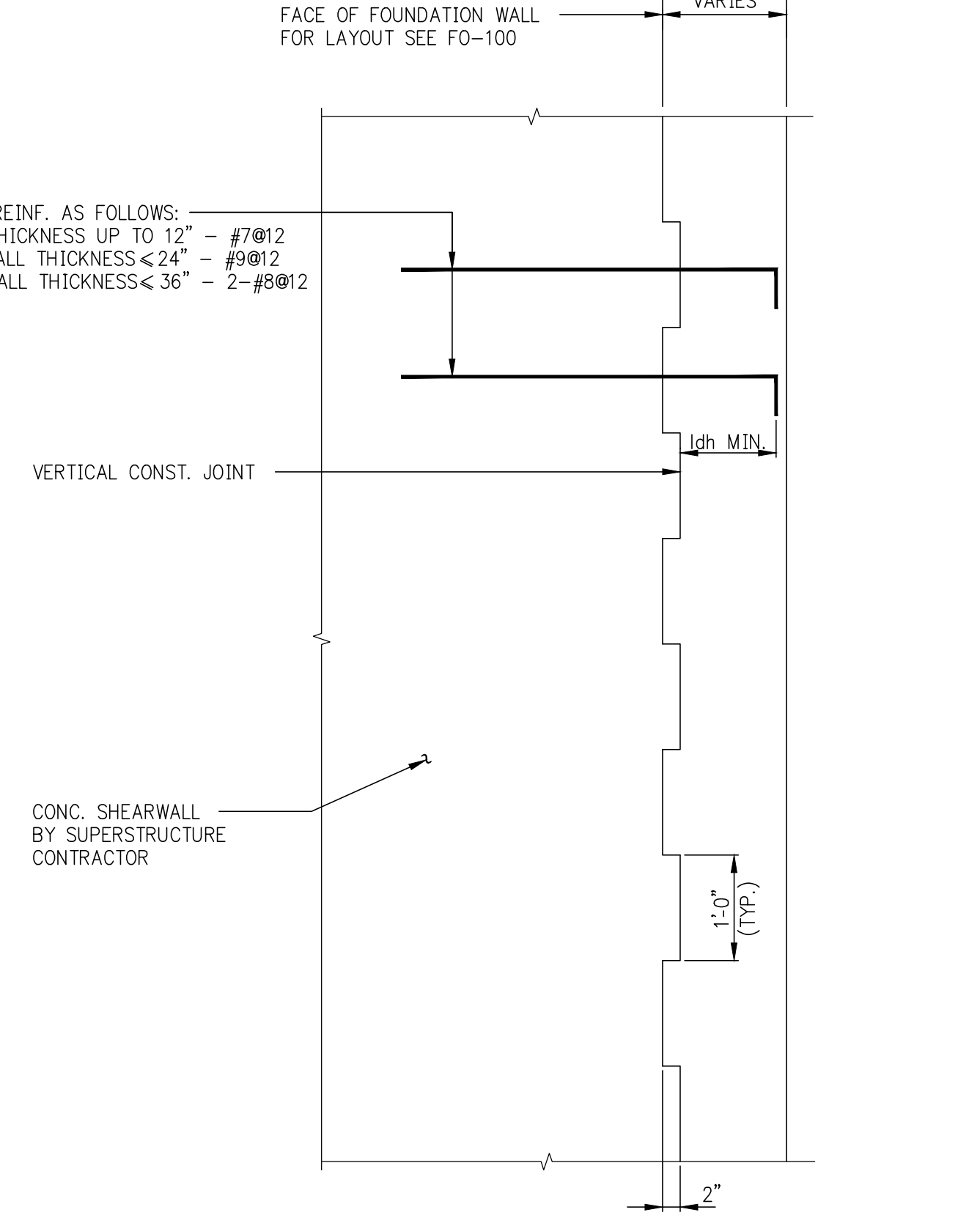
UNDER SLAB DRAIN



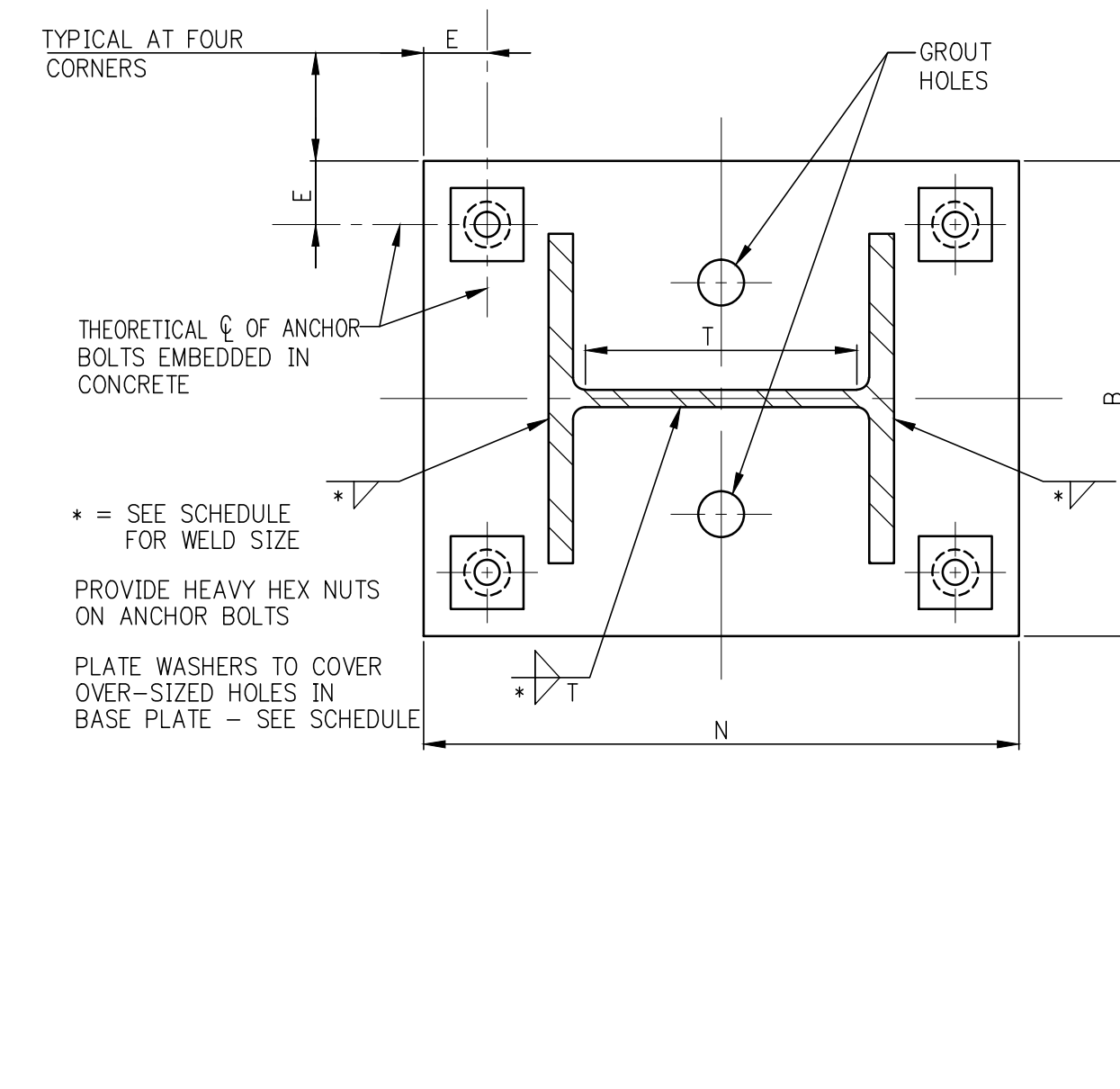
MAT FOUNDATION CONSTRUCTION JOINT



TYPICAL VERTICAL CONSTRUCTION JOINT IN FOUNDATION WALL

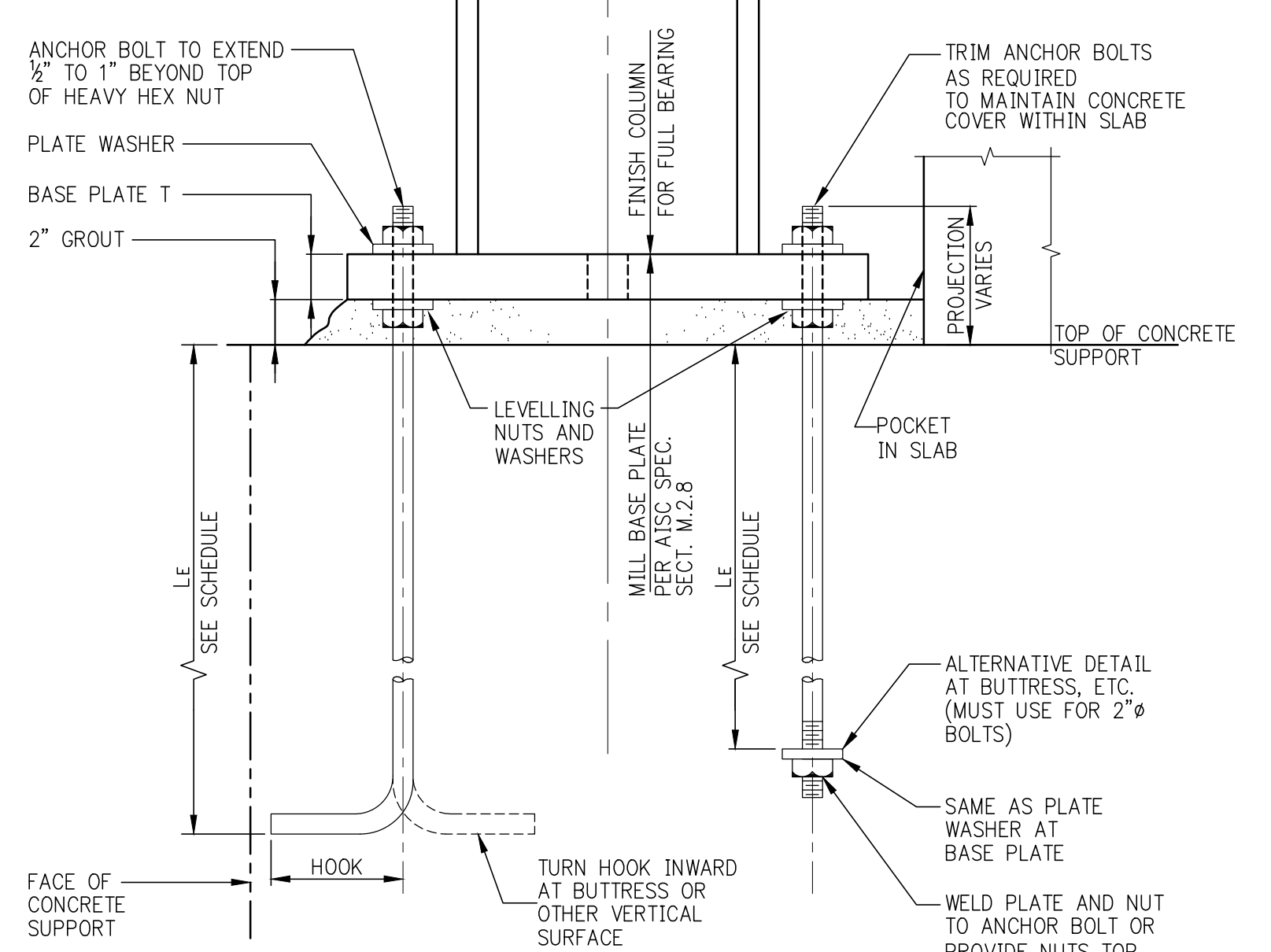


TYPICAL CONSTRUCTION JOINT SECTION IN FOUNDATION WALL

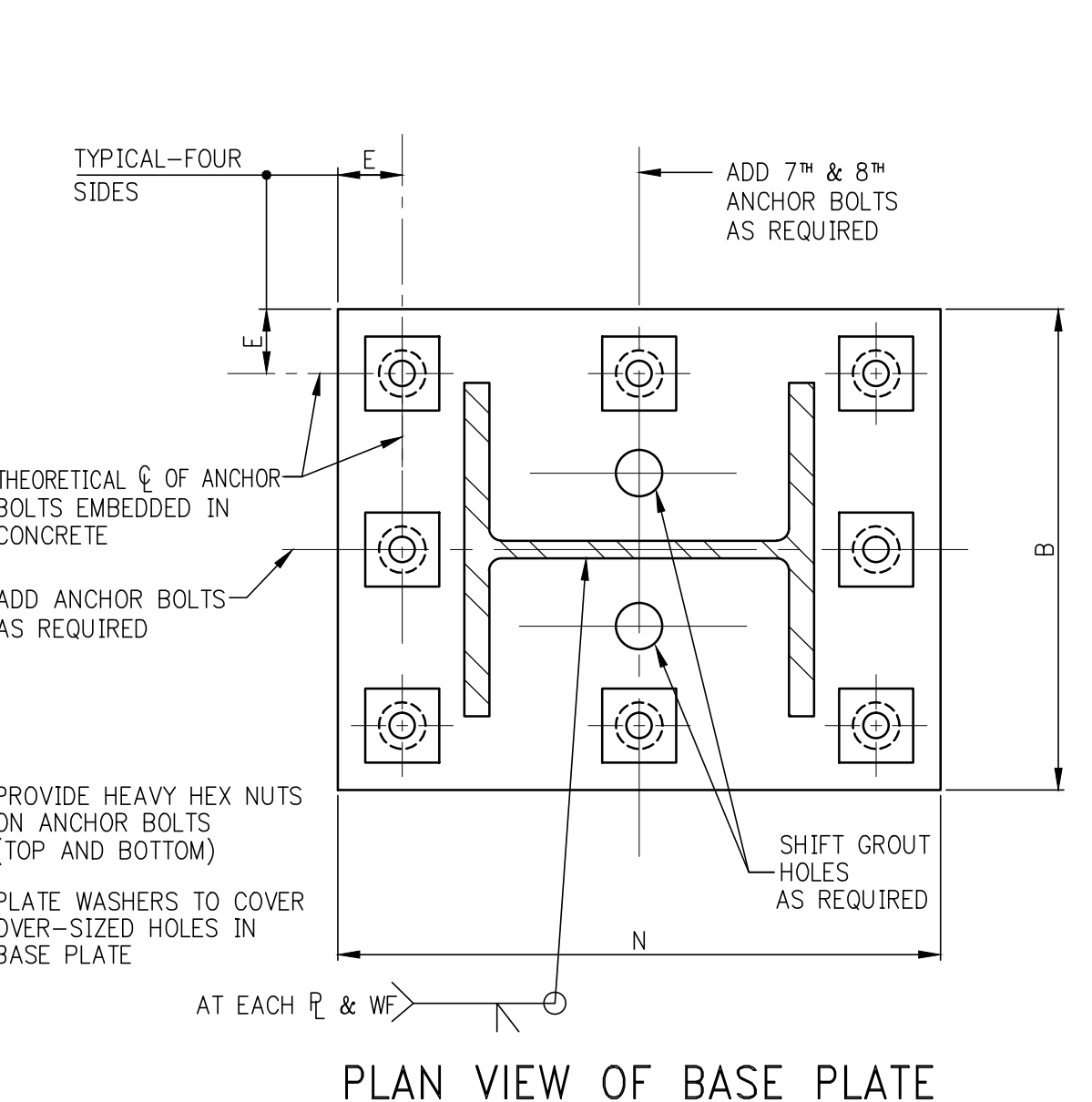


PLAN VIEW OF BASE PLATE AT COLUMN IN COMPRESSION ONLY

- NOTE:
1. DO NOT USE THIS DETAIL FOR COLUMNS SUBJECTED TO UPLIFT FORCES OR LARGE BENDING MOMENTS.

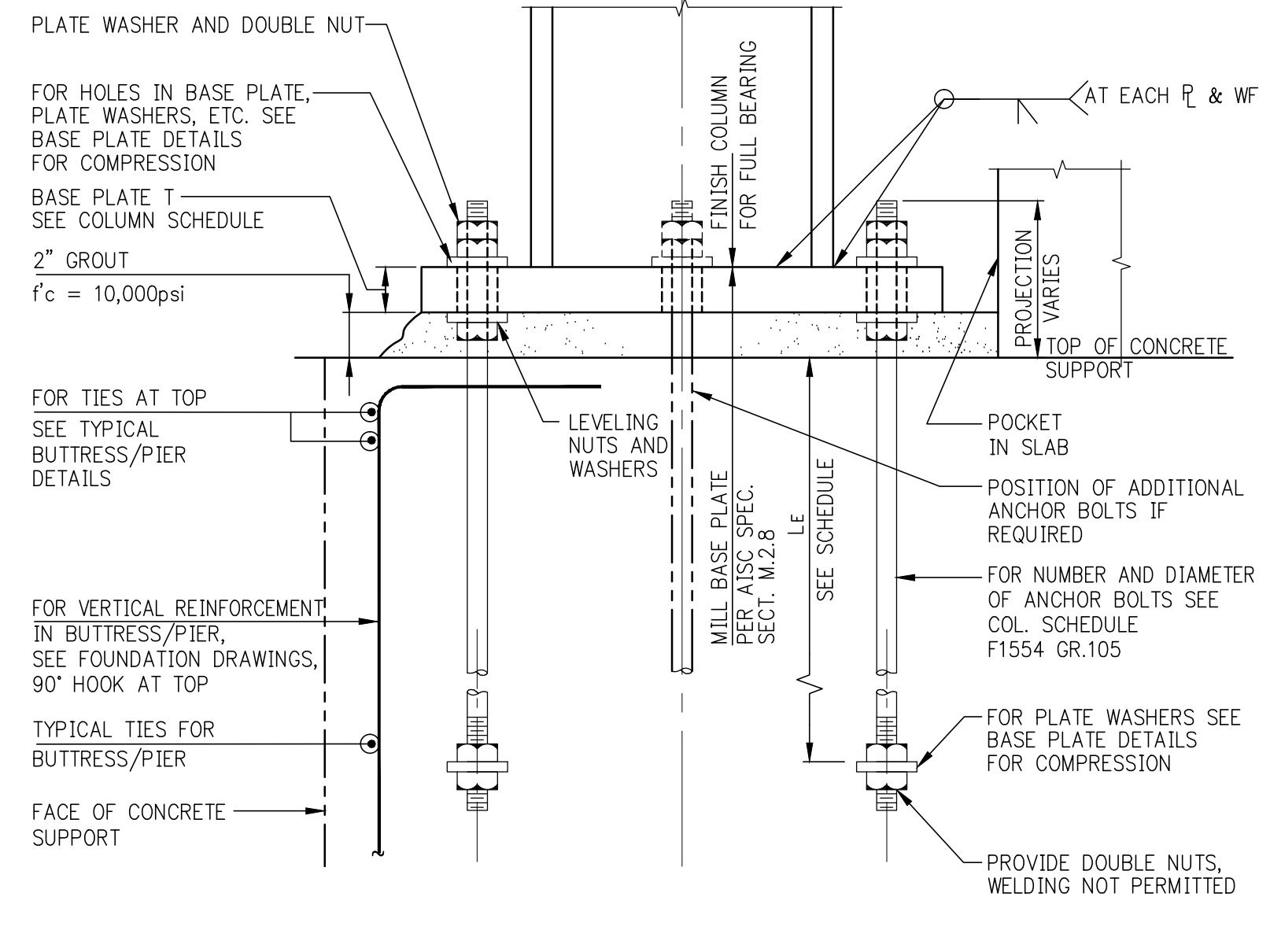


SECTION - COMPRESSION ONLY



PLAN VIEW OF BASE PLATE AT COLUMN IN TENSION

- NOTE:
1. USE THIS DETAIL FOR COLUMNS SUBJECTED TO UPLIFT FORCES OR LARGE BENDING MOMENTS WHERE CALLED FOR IN THE COLUMN SCHEDULE OR IN SPECIFIC PROJECT DETAILS.



SECTION - COLUMN IN TENSION

MINIMUM BASE PLATE/ANCHOR BOLT REQUIREMENTS (THIS SCHEDULE FOR COMPRESSION ONLY)

COLUMN SIZES	ALL W10 AND SMALLER SIZES: W12x58 AND LIGHTER W14x62 AND LIGHTER	W12x65 TO W14x90 TO W14x311	W14x342 TO W14x500	W14x550 TO MAXIMUM W14
* MINIMUM WELD SIZE - COLUMN TO BASE PLATE	3/8"	3/8"	3/8"	1/2"
MINIMUM ANCHOR BOLT REQUIREMENT	4-1" DIA.	4-1 1/4" DIA.	4-1 1/2" DIA.	4-2" DIA.
HOLE DIAMETER IN BASE PLATE	2"	2 1/4"	2 1/2"	3 1/4"
E = EDGE DISTANCE TO HOLES	2 1/2"	2 3/4"	2 3/4"	3 3/4"
LE = BOLT EMBEDMENT LENGTH	1'-6"	1'-9"	2'-2"	2'-9"
BOLT WORK DIMENSION OR REQUIREMENT	5"	6"	8" OR NUT + PLATE	NUT + PLATE
PLATE WASHER	3/8x3/4x3/4 W/1 1/2" HOLE	3/8x3/4x3/4 W/1 1/2" HOLE	3/8x3/4x3/4 W/1 1/2" HOLE	3/4x3/4x1/2 W/2 1/2" HOLE
MINIMUM 'N' FOR BOLT + WASHER (U.O.N.)	d COL. + 10"	d COL. + 11"	d COL. + 11 1/2"	d COL. + 13 1/2"
REMARKS				

NOTES FOR "COMPRESSION ONLY" BASE PLATE DETAILS

1. THESE DETAILS ARE NOT TO BE USED WHERE COLUMNS ARE SUBJECTED TO TENSION/UPLIFT FORCES OR WHERE LARGE COLUMN BASE MOMENTS INDUCE TENSION IN ANCHOR BOLTS. FOR THOSE CASES SEE TENSION/MOMENT BASE DETAILS.
2. ANCHOR BOLT MATERIAL SHALL BE ASTM F1554 (GRADE 55 WELDABLE U.O.N.).
3. ANCHOR BOLT NUTS SHALL BE DRAWN DOWN TIGHT TO A "SNUG-TIGHTENED" CONDITION. ANCHOR BOLTS DO NOT REQUIRE PRE-TENSIONING.
4. IF CONTRACTOR PROPOSES TO USE LEVELLING PLATES, HE SHALL SUBMIT HIS PROPOSED METHOD AND DETAILS FOR ENGINEER'S REVIEW AND APPROVAL. THIS MAY RESULT IN A REQUIREMENT TO MILL THE BOTTOM SURFACE OF THE BASE PLATE.
5. ANCHOR BOLT HOLES WHICH ARE FLAME-CUT IN BASE PLATES SHALL BE INSPECTED (AND CORRECTED AS NECESSARY) TO ASSURE PROPER CLEARANCES.
6. SEE PROJECT SPECIFICATIONS AND GENERAL NOTES FOR MATERIALS AND STRENGTH REQUIREMENTS FOR HIGH-STRENGTH NON-SHRINK GROUT.

DEPT. OF BLDGS./FIRE/DOCS Job Number

PROJECT: 217 WEST 57TH STREET NEW YORK, NY

ARCHITECT: ADRIAN SMITH + GORDON GILL ARCHITECTURE

DEVELOPER: EXTELL DEVELOPMENT COMPANY

STRUCTURAL ENGINEERS: WSP

MEP ENGINEERS: AKF GROUP

GEOTECHNICAL ENGINEERS: Langan Engineering & Environmental Services

CODE CONSULTANTS: Construction Consulting Associates

CURTAINWALL CONSULTANT: A.J.P. Consulting

LANDMARK/PRESERVATION CONSULTANT: Jan Hird Pokorny Associates, Inc.

No.	DESCRIPTION	DATE
1	SCHEMATIC DESIGN	03-31-2014
2	FOUNDATION BID PACKAGE	03-31-2014
3	ISSUED FOR SCHEMATIC DESIGN	04-04-2014
4	FOUNDATION BID PACKAGE	04-04-2014
5	STEEL BID PACKAGE	05-22-2014
6	FOUNDATION 80% CD	05-22-2014
7	SUPERSTRUCTURE CONCRETE BID	06-02-2014
8	DOB FILING SET	06-17-2014
9	FOUNDATION 90% CD	07-01-2014
10	STRUCTURAL STEEL BID	08-15-2014
11	CD PROGRESS ISSUE 1	10-15-2014
12	ISSUED FOR CONSTRUCTION UP TO GROUND FLOOR ONLY	10-17-2014
13	DOB SUBMISSION	12-19-2014
14	DOB SUBMISSION	02-05-2015

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CONSULTANT: WSP

PROJECT: 217 WEST 57TH STREET NEW YORK, NY

DRAWING TITLE: TYPICAL FOUNDATION DETAILS 3

DATE: 03/01/14

PROJECT No: 2012186

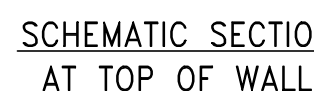
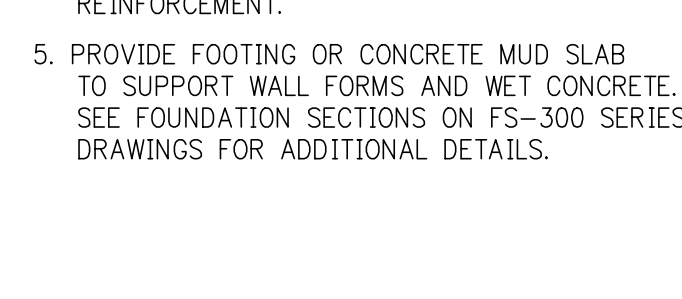
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CHK: Y.E. SCALE: AS INDICATED

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DOB PAGE No: of

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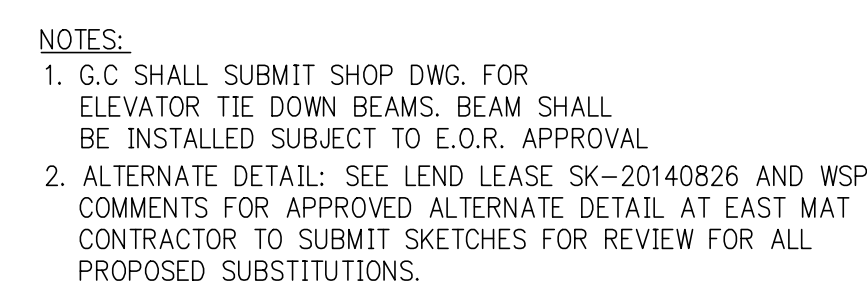
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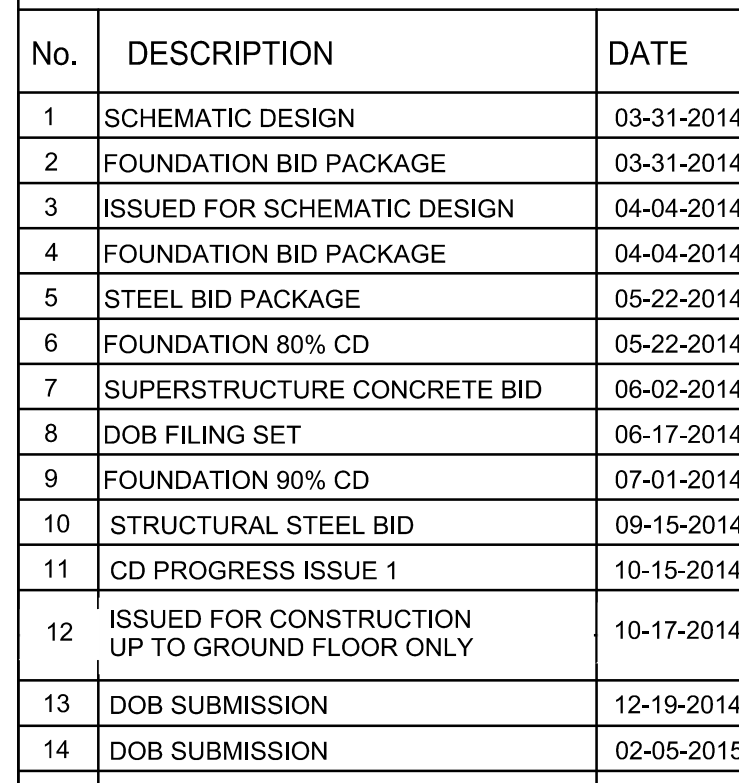
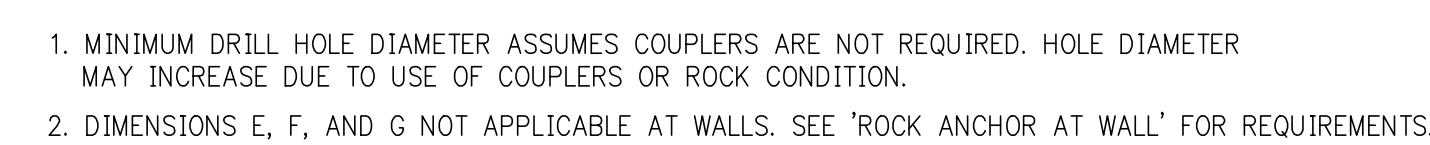
** CAR AND CWT RAILS



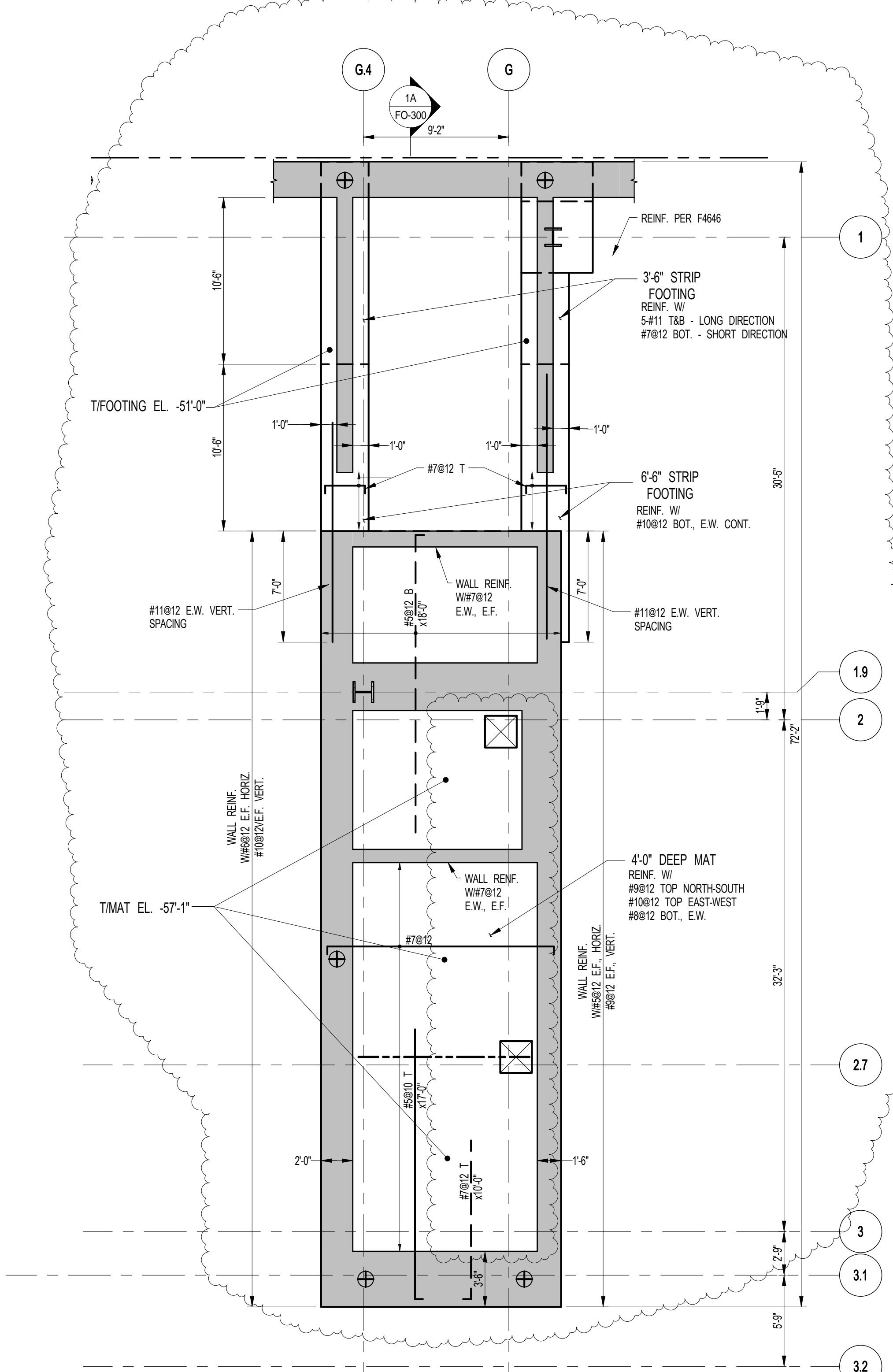
* THESE REACTIONS CAN OCCUR SIMULTANEOUSLY.
OTHERWISE REACTIONS DO NOT OCCUR SIMULTANEOUSLY.

* THESE REACTIONS DO NOT OCCUR SIMULTANEOUSLY WITH PIT BUFFER REACTIONS.



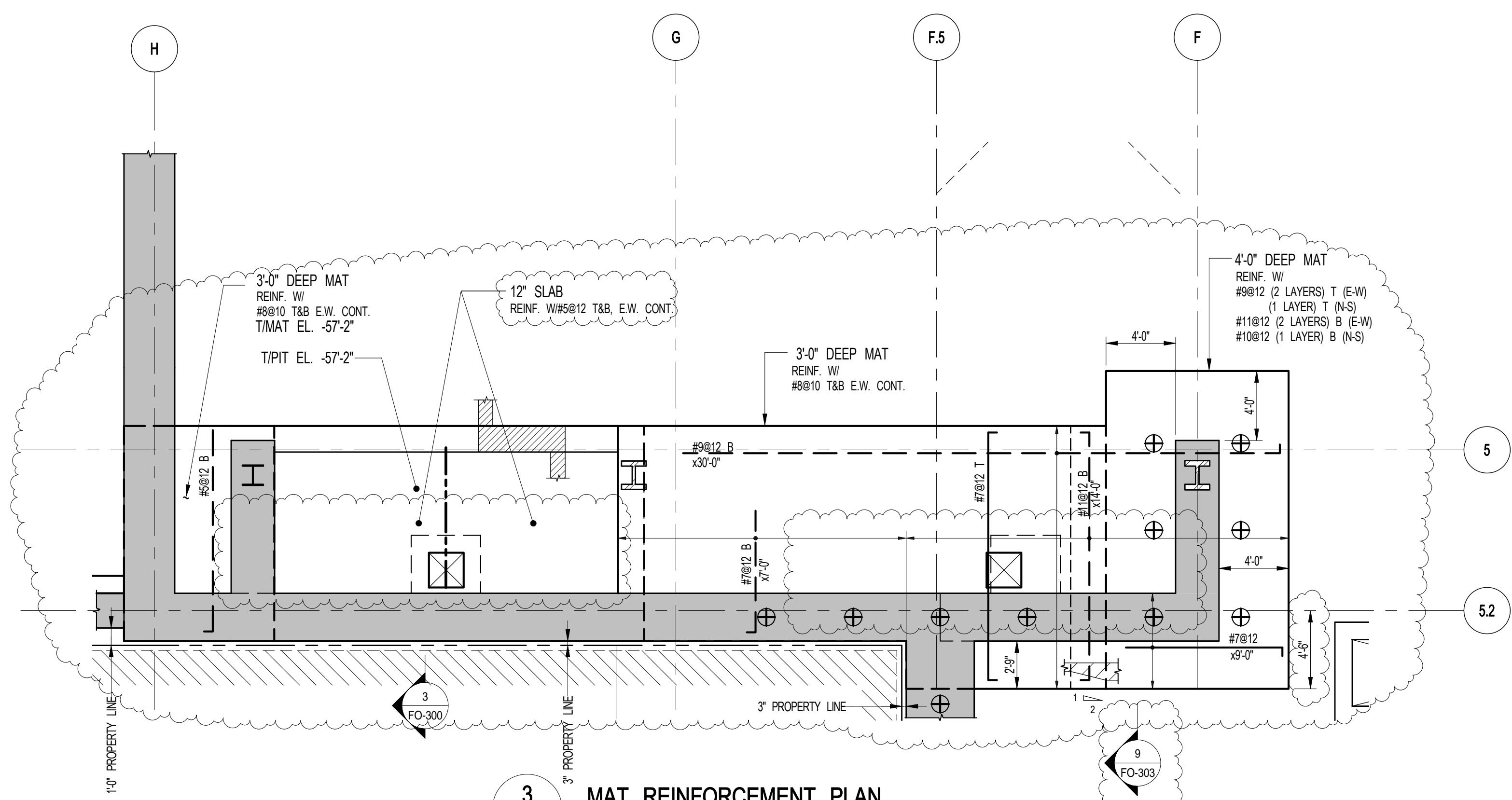


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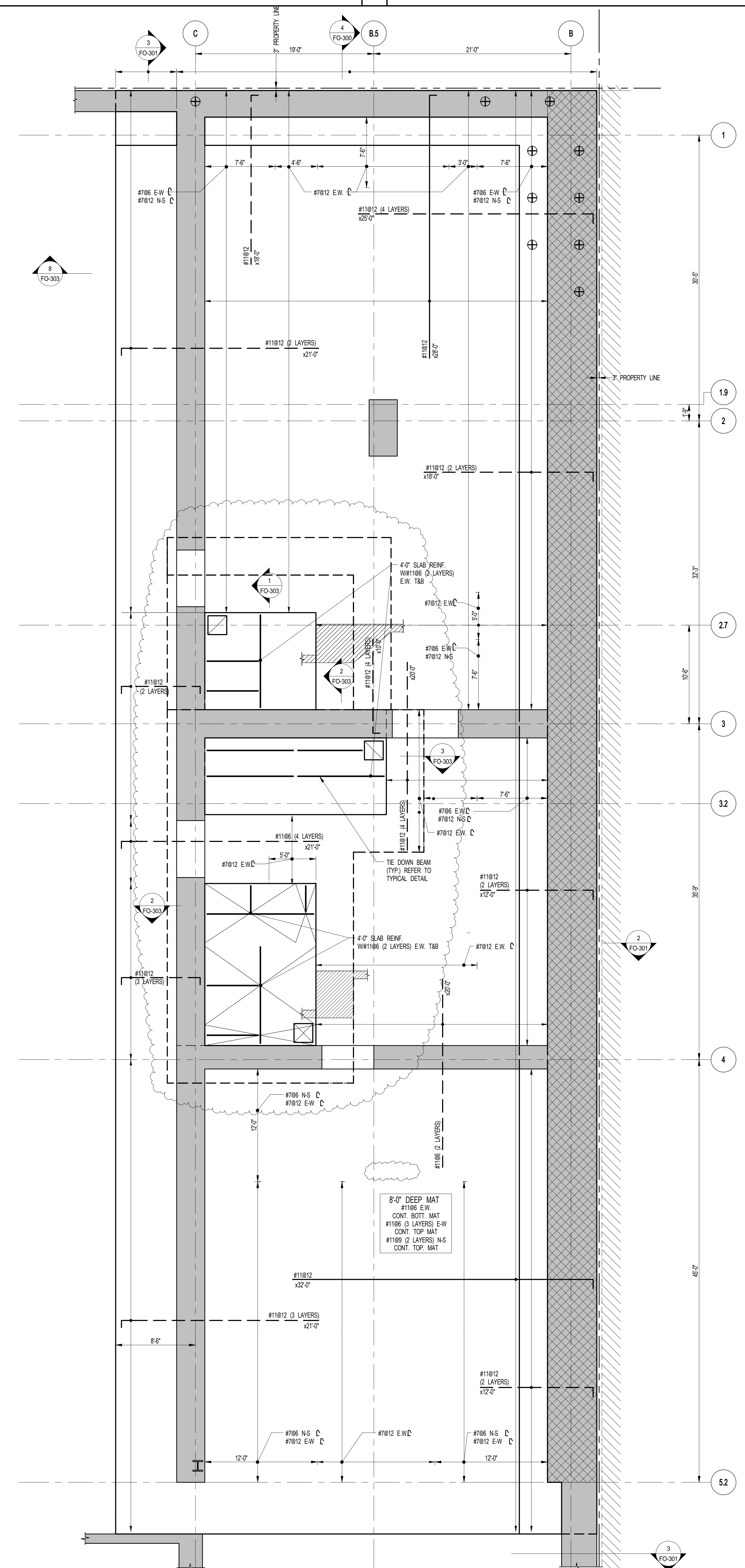
1 MAT REINFORCEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. ALL #11 BARS TO BE ASTM A615 GR75.
 2. ALL #11 STEEL TO BE COORDINATED WITH ELEVATOR CONTRACTOR.
 3. BEARING CAPACITY TO BE 60 TSF.
 4. WALL REINFORCEMENT IS ADDITIONAL TO REINFORCEMENT SHOWN ON S-400.



3 MAT REINFORCEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. ALL #11 BARS TO BE ASTM A615 GR75.
 2. ALL #11 STEEL TO BE COORDINATED WITH ELEVATOR CONTRACTOR.
 3. BEARING CAPACITY TO BE 60 TSF.



2 MAT REINFORCEMENT PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
1. ALL #11 BARS TO BE ASTM A615 GR75.
 2. ALL #11 STEEL TO BE COORDINATED WITH ELEVATOR CONTRACTOR.
 3. (Symbol) INDICATES 100 TON BEARING CAPACITY. BEARING CAPACITY AT ALL OTHER LOCATIONS TO BE 60 TSF.

KEY PLAN

PROJECT NORTH

TRUE NORTH

DEVELOPER:
EXTELL DEVELOPMENT COMPANY
805 THIRD AVENUE, 7TH FLOOR
NEW YORK, NY 10022 USA
TEL: 212 712 6000 FAX: 212 712 6100

DESIGN ARCHITECT: Base Building Shell & Core
ADRIAN SMITH + GORDON GILL ARCHITECTURE
111 WEST MONROE STREET SUITE 2300
CHICAGO, IL 60603
TEL: 312 920 1888 FAX: 312 920 1775

INTERIOR DESIGNER: Residential
Rottet Architecture and Design Studio, PLLC
228 Fifth Ave., 7th Floor
New York, NY 10001
TEL: 646 998 7000 FAX:

ARCHITECT OF RECORD: Base Building Shell, Core, & Residential
AJAJ ARCHITECTS, P.C.
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Toronto, ON M5V 1E7 Canada
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STRUCTURAL ENGINEERS:
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MEP ENGINEERS:
AKF GROUP
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New York, NY 10036 USA
TEL: 212 354 5555 FAX: 212 354 5568

GEOTECHNICAL ENGINEERS:
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39 West 37th Street, 12A
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TEL: 212 759 6452 FAX: 212 759 6540

No.	DESCRIPTION	DATE
1	SCHEMATIC DESIGN	03-31-2014
2	FOUNDATION BID PACKAGE	03-31-2014
3	ISSUED FOR SCHEMATIC DESIGN	04-04-2014
4	FOUNDATION BID PACKAGE	04-04-2014
5	STEEL BID PACKAGE	05-22-2014
6	FOUNDATION 80% CD	05-22-2014
7	SUPERSTRUCTURE CONCRETE BID	06-02-2014
8	DOB FILING SET	06-17-2014
9	FOUNDATION 90% CD	07-01-2014
10	STRUCTURAL STEEL BID	09-15-2014
11	CD PROGRESS ISSUE 1	10-15-2014
12	ISSUED FOR CONSTRUCTION UP TO GROUND FLOOR ONLY	10-17-2014
13	DOB SUBMISSION	12-19-2014
14	DOB SUBMISSION	02-05-2015

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ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

CONSULTANT:
WSP
228 East 45th Street
New York, NY 10017
(212) 697-9885
www.wspgroup.com/usa

PROJECT:
217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:
MAT REINFORCEMENT PLAN

SEAL & SIGNATURE	DATE:
	03-31-2014
	2012185

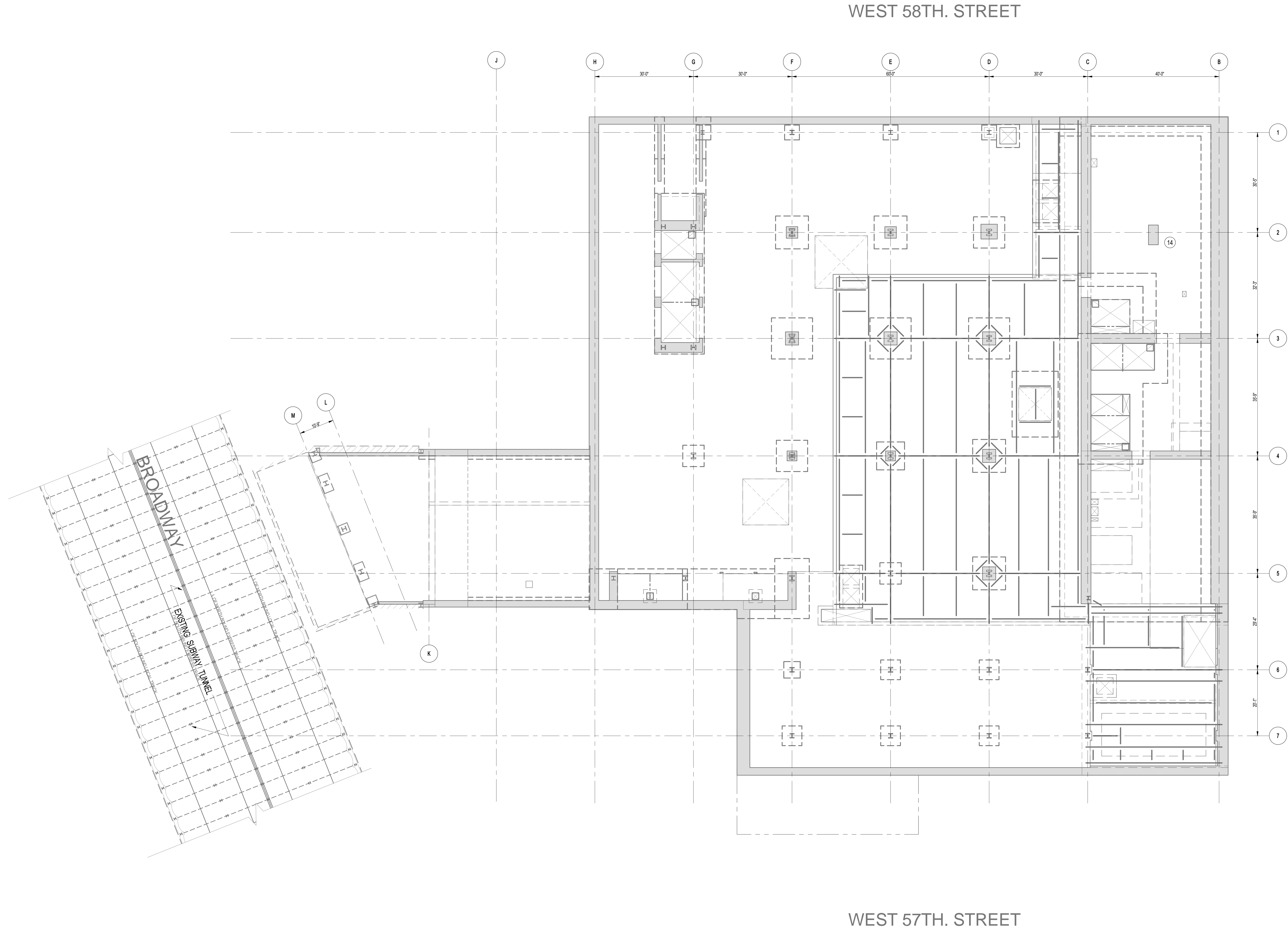
PROJECT No:	REV:
2012185	14

SCALE: As indicated

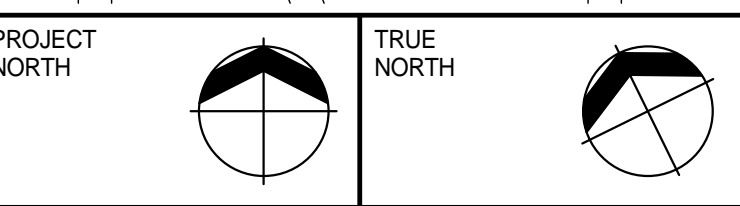
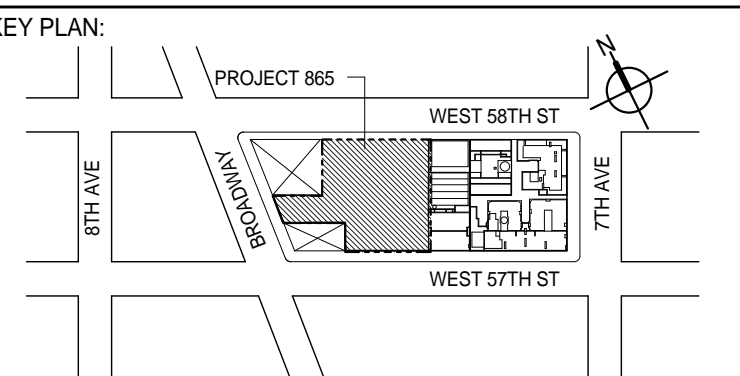
DWG No:
FO-102.01

DOB PAGE No: 5 of 100

DOB EMPLOYEE STAMP: DOB S-SCAN:



1 SITE KEY PLAN
FO-101
SCALE: 3/32" = 1'-0"
NOTE:
1. FOR BALANCE OF INFORMATION SEE DWG. FO-100.



DEVELOPER: **EXTELL DEVELOPMENT COMPANY**
805 THIRD AVENUE, 7TH FLOOR
NEW YORK, NY 10022 USA
TEL: 212 712 6000 FAX: 212 712 6100

DESIGN ARCHITECT: **Base Building Shell & Core**
ADRIAN SMITH + GORDON GILL ARCHITECTURE
111 WEST MONROE STREET SUITE 2300
CHICAGO, IL 60603
TEL: 312 920 1888 FAX: 312 920 1775

INTERIOR DESIGNER: **Residential**
Rottet Architecture and Design Studio, PLLC
208 Fifth Ave., 7th Floor
New York, NY 10001
TEL: 646 998 7000 FAX:

ARCHITECT OF RECORD: **Base Building Shell, Core, & Residential**
AJAJ ARCHITECTS, P.C.
401 Wellington St. W., 3rd Floor
Toronto, ON M5V 1E7 Canada
TEL: 416 967 1500 FAX: 416 967 7150

STRUCTURAL ENGINEERS: **WSP**
228 East 45th Street
New York, NY 10017 USA
TEL: 212 687 9885 FAX: 646 487 5501

MEP ENGINEERS: **AKF GROUP**
1501 Broadway
New York, NY 10036 USA
TEL: 212 354 5656 FAX: 212 354 5668

GEOTECHNICAL ENGINEERS: **Langan Engineering & Environmental Services**
21 Penn Plaza - 360 West 31st Street, 8th Floor
New York, NY 10001-2722
TEL: 212 479 5400 FAX: 212 479 5444

CODE CONSULTANTS: **Construction Consulting Associates**
100 Church Street
New York, NY 10007
TEL: 212 385 1918 FAX: 212 385 1911

CURTAINWALL CONSULTANT: **AJLP Consulting**
40 Worth Street, Suite 826
New York, NY 10013
TEL: 212 757 6650 FAX: 646 219 8508

LANDMARK/PRESERVATION CONSULTANT: **Jan Hird Pokorny Associates, Inc.**
39 West 57th Street, 12A
New York, NY 10019
TEL: 212 759 6462 FAX: 212 759 6540

No.	DESCRIPTION	DATE
1	SCHEMATIC DESIGN	03-31-2014
2	FOUNDATION BID PACKAGE	03-31-2014
3	ISSUED FOR SCHEMATIC DESIGN	04-04-2014
4	FOUNDATION BID PACKAGE	04-04-2014
5	STEEL BID PACKAGE	05-22-2014
6	FOUNDATION 80% CD	05-22-2014
7	DOB FILING SET	06-17-2014
8	FOUNDATION 90% CD	07-01-2014
9	DOB SUBMISSION	12-19-2014
10	DOB SUBMISSION	02-05-2015

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CONSULTANT: **WSP**
228 East 45th Street
New York, NY 10017
(212) 687-9885
www.wspgroup.com/usa

PROJECT: **217 WEST 57TH STREET**
NEW YORK, NY

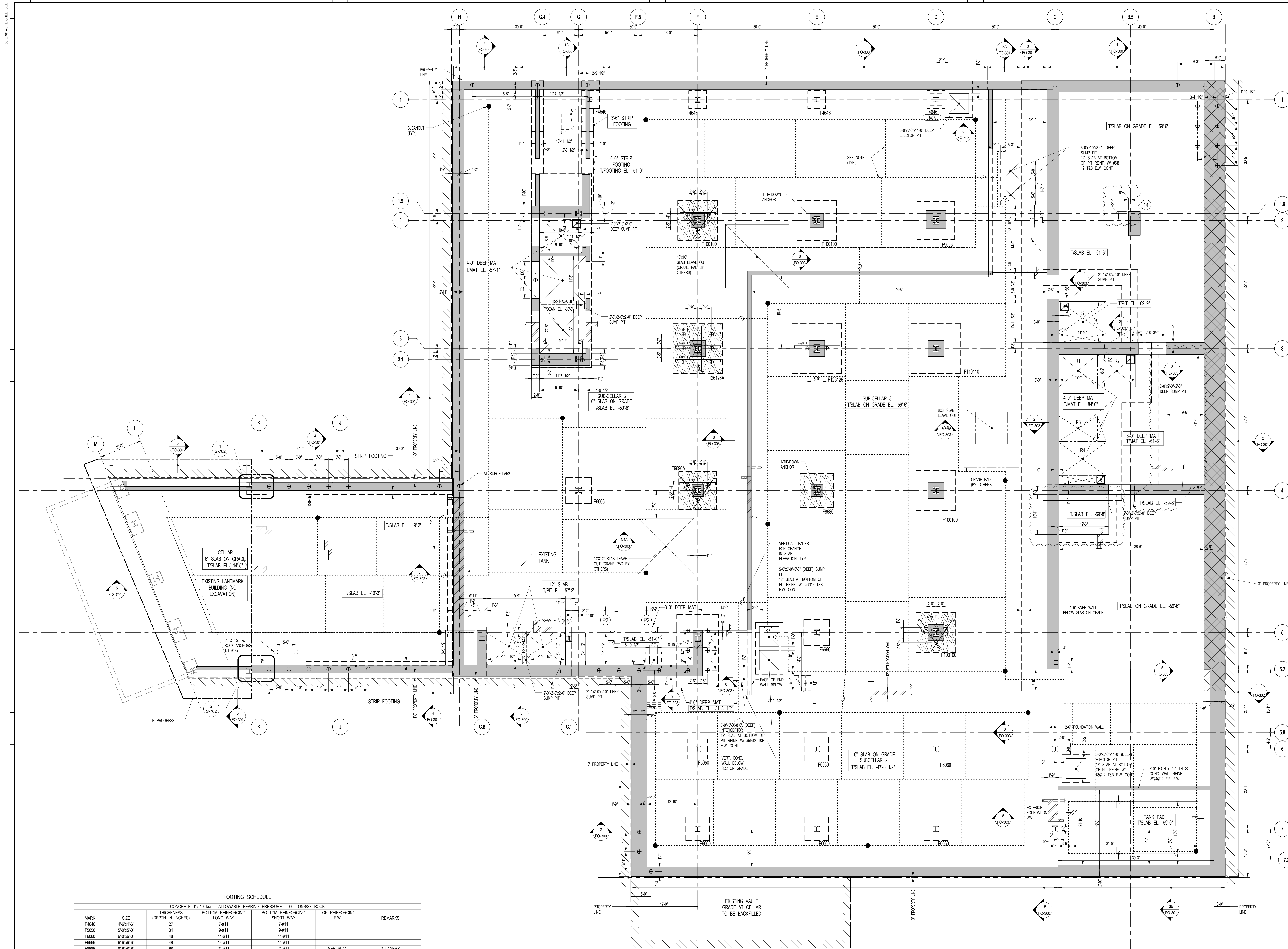
DRAWING TITLE:

SITE KEY PLAN

SEAL & SIGNATURE	DATE: 03-31-2014	
	PROJECT No: 2012185	
	DRAWN: CAD	REV: 10
	CHK: YE	SCALE: 3/32" = 1'-0"
	DWG No: FO-101.01	

DOB PAGE No: 4 of 100

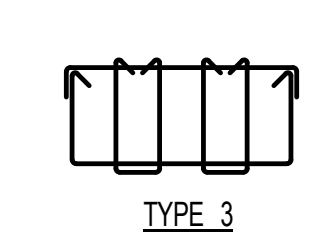
DOB EMPLOYEE STAMP: DOB 5-SCAN:



MARK	SIZE	CONCRETE: $f_c=10$ ksi	ALLOWABLE BEARING PRESSURE = 60 TONS/SF ROCK	THICKNESS (DEPTH IN INCHES)	BOTTOM REINFORCING LONG WAY	BOTTOM REINFORCING SHORT WAY	TOP REINFORCING E.W.	REMARKS
F4646	4'-6"x4'-6"	27	7#11	7#11				
F5030	5'-0"x5'-0"	34	9#11	9#11				
F6000	6'-0"x6'-0"	48	11#11	11#11				
F6666	6'-6"x6'-6"	48	14#11	14#11				
F6666	6'-6"x6'-6"	68	21#11	21#11			SEE PLAN	2 LAYERS
F6666	6'-6"x6'-6"	62	2x13#11	2x13#11			SEE PLAN	2 LAYERS
F6666	6'-6"x6'-6"	68	2x13#11	2x13#11			SEE PLAN	2 LAYERS
F100100	10'-0"x10'-0"	72	2x14#11	2x14#11			SEE PLAN	2 LAYERS
F110110	11'-0"x11'-0"	72	2x15#11	2x15#11			SEE PLAN	2 LAYERS
F126126	12'-6"x12'-6"	90	2x21#11	2x21#11			SEE PLAN	2 LAYERS
F126126	12'-6"x12'-6"	96	2x23#11	2x23#11			SEE PLAN	2 LAYERS

NOTE: FIRST FOOTING DIMENSION IS EAST-WEST DIRECTION.

BEAM MARK	SIZE	REINFORCEMENT	TOP ADDL. BARS AT SUPPORT	STIRRUPS	REMARKS
GB1	WIDTH 120 DEPTH 66	BOTTOM CONTINUOUS 22#11 TOP CONTINUOUS 11#47		TYPE 3	



1 FOUNDATION (SUB-CELLAR 3) PLAN
SCALE: 1/8" = 1'-0"

- NOTES:
- FOR TOP OF SLAB ELEVATION SEE PLAN. PROJECT 0'-0" = 7536" ABOVE MANHATTAN DATUM.
 - SLAB ON GRADE TO BE 6" THICK REINF. WITH #6@12 E.W. U.O.A. ON PLAN.
 - TOP OF FOOTING TO BE 1'-6" BELOW TOP OF SLAB U.O.A. ON PLAN.
 - ROCK AT NEW FOUNDATION WALLS SHALL BE STABILIZED PER RECOMMENDATION OF GEOTECHNICAL ENGINEER.
 - PROVIDE DOWELS IN FOOTING TO MATCH VERTICAL WALL REINF. OR VERTICAL WALL REIN. (WHERE SHOWN ON PLAN) REINF. (TYP.)
 - COORDINATE PERFORATED PIPE DRAINAGE AND SUMP PITS WITH ARCH. & MECH. DRAWINGS. FOR TYPICAL DRAIN DETAILS SEE F1000 SERIES DRAWINGS.
 - FOR UNDERGROUND PLUMBING SEE ARCH-MECH. DRAWINGS.
 - FOR GENERAL NOTES AND LEGEND SEE F0001.
 - FOR TYPICAL DETAILS SEE F0000 SERIES DRAWINGS.
 - FOR FOUNDATION SECTIONS SEE F0000 SERIES DRAWINGS.
 - FOR SHIELDING DETAILS SEE S-600 SERIES DRAWINGS.
 - FOR COLUMN SIZES AND DETAILS SEE S-600 SERIES DRAWINGS.
 - FOR SLAB LOCATIONS SEE ARCH. DRAWINGS.
 - INDICATES 100 TON BEARING CAPACITY.
 - INDICATES 75 TON BEARING CAPACITY.
 - OUTSIDE FACE OF FOUNDATION WALL SHALL BE WITHIN BUILDING PROPERTY LINE.
 - CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS.
 - DIVIDER BEAMS TO BE PROVIDED BY ELEVATOR CONTRACTOR.

KEY PLAN

PROJECT NORTH

TRUE NORTH

DEVELOPER:

EXTELL DEVELOPMENT COMPANY
805 THIRD AVENUE, 7TH FLOOR
NEW YORK, NY 10022 USA
TEL: 212 712 6000 FAX: 212 712 6100

DESIGN ARCHITECT:

Base Building Shell & Core
ADRIAN SMITH + GORDON GILL ARCHITECTURE
111 WEST MONROE STREET SUITE 2300
CHICAGO, IL 60603
TEL: 312 420 1888 FAX: 312 920 1775

INTERIOR DESIGNER:

Residential
Rotet Architecture and Design Studio, PLLC
228 Fifth Ave, 7th Floor
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TEL: 646 998 7000 FAX:

ARCHITECT OF RECORD:

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STRUCTURAL ENGINEERS:

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MEP ENGINEERS:

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1501 Broadway
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TEL: 212 354 5656 FAX: 212 354 5668

GEOTECHNICAL ENGINEERS:

Langan Engineering & Environmental Services
21 Penn Plaza, 360 West 17th Street, 8th Floor
New York, NY 10001-2722
TEL: 212 479 5400 FAX: 212 479 5444

CODE CONSULTANTS:

Construction Consulting Associates
100 Church Street
New York, NY 10007
TEL: 212 385 6181 FAX: 212 385 1911

CURTAINWALL CONSULTANT:

AJLP Consulting
40 Worth Street, Suite 826
New York, NY 10013
TEL: 212 757 6550 FAX: 646 219 8508

LANDMARK/PRESERVATION CONSULTANT:

Jan Hird Pokorny Associates, Inc.
39 West 57th Street, 12A
New York, NY 10019
TEL: 212 759 6452 FAX: 212 759 6540

No.	DESCRIPTION	DATE
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5	STEEL BID PACKAGE	05-22-2014
6	FOUNDATION 90% CD	05-22-2014
7	SUPERSTRUCTURE CONCRETE BID	06-02-2014
8	DOB FILING SET	06-17-2014
9	FOUNDATION 90% CD	07-01-2014
10	SK	07-17-2014
11	SE ZONE STEEL BID	08-20-2014
12	STRUCTURAL STEEL BID	09-15-2014
13	STRUCTURAL STEEL BID-ADDENDUM	10-01-2014
14	CD PROGRESS ISSUE 1	10-15-2014
15	ISSUED FOR CONSTRUCTION UP TO GROUND FLOOR ONLY	10-17-2014
16	ISSUED FOR CONSTRUCTION UP TO 5TH FLOOR ONLY	11-07-2014
17	ISSUED FOR CONSTRUCTION UP TO 7TH FLOOR ONLY	11-14-2014
18	DOB SUBMISSION	12-19-2014
19	CD PROGRESS ISSUE-2	12-19-2014
20	DOB SUBMISSION	02-05-2015

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CONSULTANT:

WSP 228 East 45th Street
New York, NY 10017
(212) 687-2885
www.wspgroup.com/usa

PROJECT:

217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:

FOUNDATION (SUB-CELLAR 3) PLAN

SEAL & SIGNATURE	DATE:	PROJECT No:
	03-31-2014	2012185
	DATE:	PROJECT No:

DRAWN:	CHECKED:	REVISION:
WSP	WSP	20

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

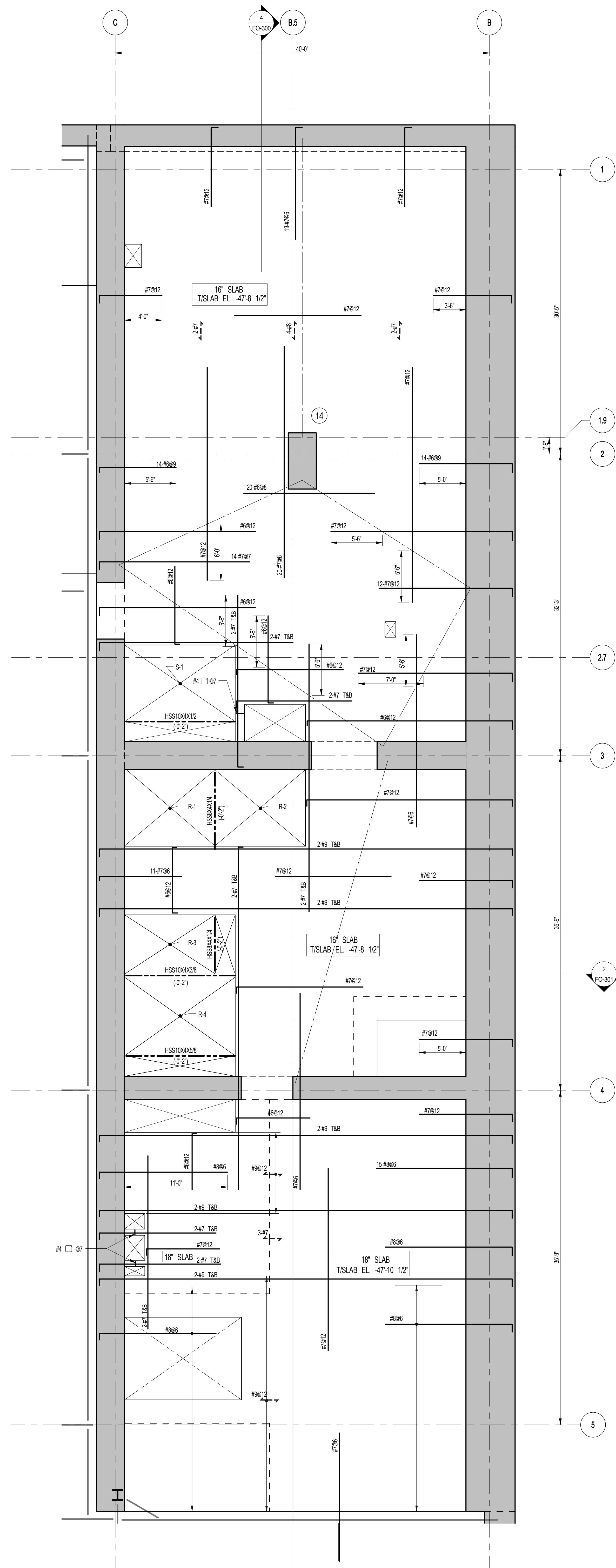
DWG No:

FO-100.02

DOB PAGE No: 3 of XXX

DOB EMPLOYEE ID:

DOB S-SCAN:

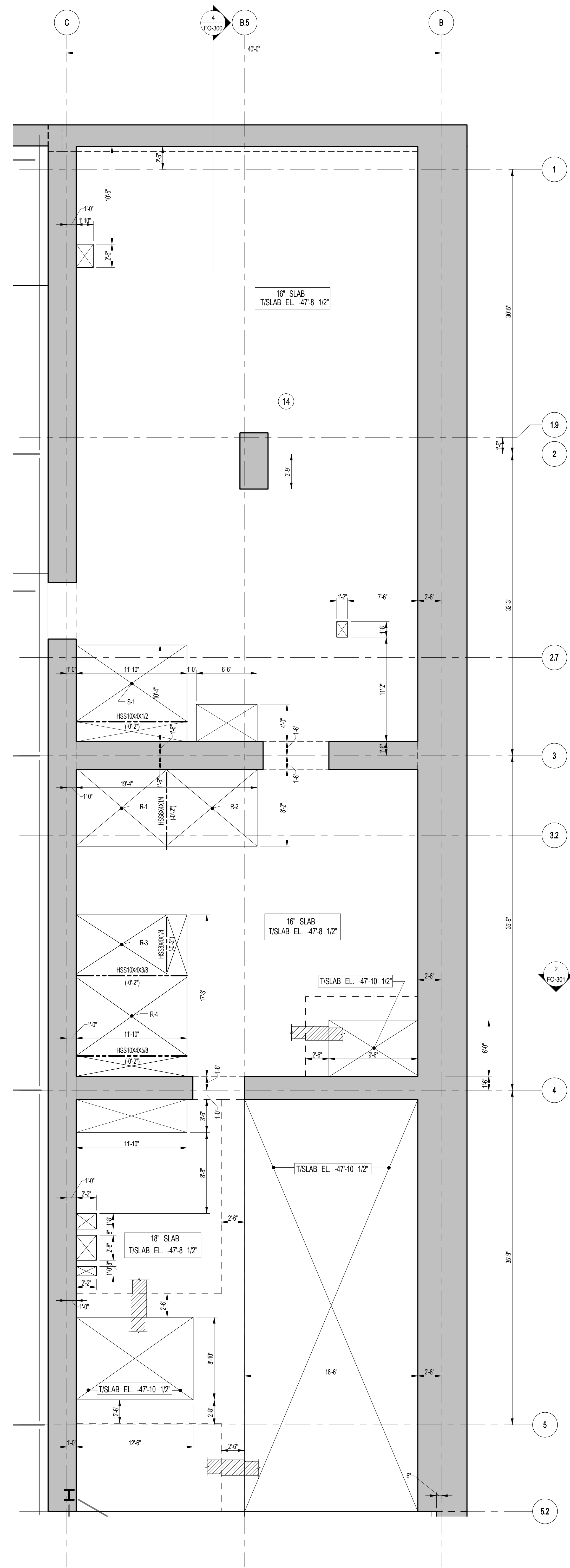


1 SUBCELLAR 2 FRAMING PLAN

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

NOTES

1. FOR T/S LAB ELEVATION SEE S-001
2. CONCRETE SLAB SHALL BE 16" THICK U.O.N. THUS ON PLAN
3. CONCRETE STRENGTH f_c OF SLAB SHALL BE 10,000 psi
4. BOTTOM REINFORCEMENT TO BE: #7@12 E.W. CONT. FOR 16" SLAB
AND #8@12 E.W. CONT. FOR 18" SLAB
5. FOR BALANCE OF INFORMATION SEE DRAWING S-001

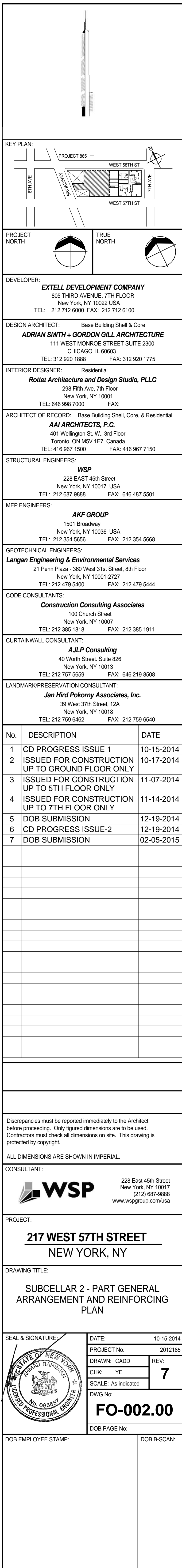


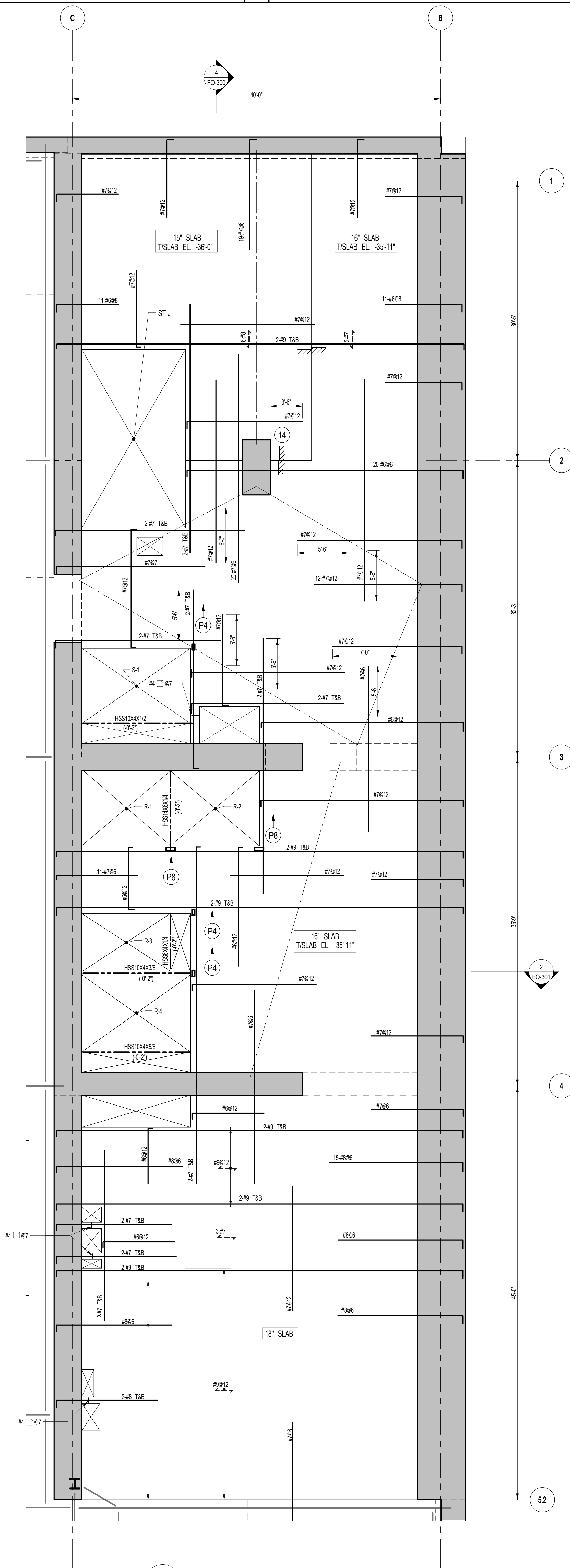
2 SUBCELLAR 2 GENERAL ARRANGEMENT PLAN

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

NOTES

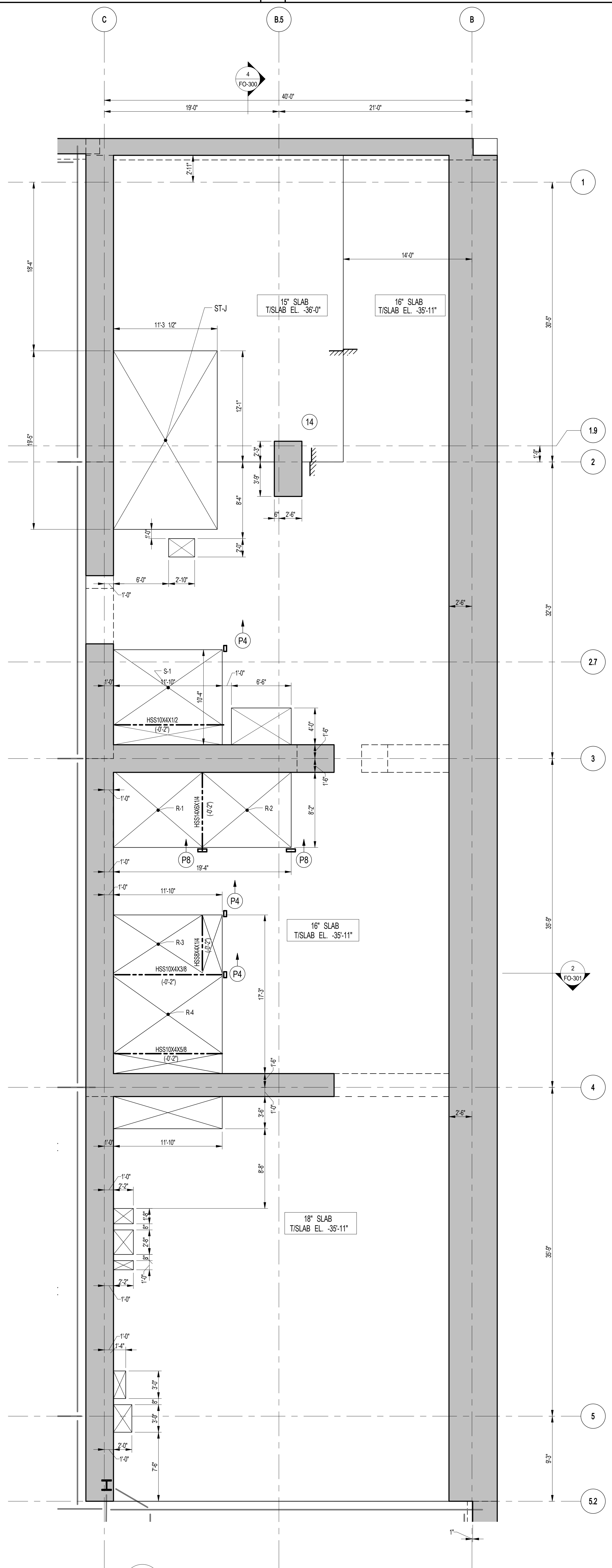
1. FOR SLAB INFORMATION SEE CORRESPONDING FRAMING PLAN.





1 SUB CELLAR 1 FRAMING PLAN

SCALE: 3/16" = 1'-0"
 NOTES:
 1. FOR T&B ELEVATION SEE S-010
 2. CONCRETE SLAB SHALL BE 16" THICK U.O.N. THUS, ON PLAN
 3. CONCRETE STRENGTH f_c OF SLAB SHALL BE 10,000 psi
 4. BOTTOM REINFORCEMENT TO BE #7812 E.W. CONT. FOR 15' & 18' SLAB
 AND #886 E.W. CONT. FOR 18' SLAB
 5. FOR BALANCE OF INFORMATION SEE DRAWING S-001



2 SUB CELLAR 1 GENERAL ARRANGEMENT PLAN

SCALE: 3/16" = 1'-0"
 NOTES:
 1. FOR SLAB INFORMATION SEE CORRESPONDING FRAMING PLAN

DEPT OF BLDGS & FIRE

Job Number: 201218-217

Project Name: 217 WEST 57TH STREET

Project Location: NEW YORK, NY

Project Date: 10-15-2014

Project No: 201218-217

Drawn: CAD

CHK: YE

SCALE: As Indicated

DWG No: 6

DOB PAGE No: 6

DOB PAGE No: 6

KEY PLAN

PROJECT NO: 201218-217

TRUE NORTH

DEVELOPER: EXTREME DEVELOPMENT COMPANY
 805 THIRD AVENUE, 7TH FLOOR
 NEW YORK, NY 10022 USA
 TEL: 212 712 6000 FAX: 212 712 6100

DESIGN ARCHITECT: Base Building Shell & Core
 ADRIAN SMITH + GORDON GILL ARCHITECTURE
 111 WEST MONROE STREET SUITE 2300
 CHICAGO, IL 60603
 TEL: 312 920 1888 FAX: 312 920 1775

INTERIOR DESIGNER: Residential
 Rottet Architecture and Design Studio, PLLC
 208 Fifth Ave, 7th Floor
 New York, NY 10001
 TEL: 646 989 7000 FAX: 646 989 7000

ARCHITECT OF RECORD: Base Building Shell, Core, & Residential
 AIA ARCHITECTS, P.C.
 401 Wellington St. W., 3rd Floor
 Toronto, ON M5V 1E7 Canada
 TEL: 416 967 1500 FAX: 416 967 7150

STRUCTURAL ENGINEERS: WSP
 228 EAST 45th Street
 New York, NY 10017 USA
 TEL: 212 687 9885 FAX: 646 487 5501

MEP ENGINEERS: AKF GROUP
 1501 Broadway
 New York, NY 10036 USA
 TEL: 212 354 5656 FAX: 212 354 5668

GEOTECHNICAL ENGINEERS: Langan Engineering & Environmental Services
 21 Penn Plaza - 360 West 31st Street, 8th Floor
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 TEL: 212 479 5400 FAX: 212 479 5444

CODE CONSULTANTS: Construction Consulting Associates
 100 Church Street
 New York, NY 10007
 TEL: 212 385 1912 FAX: 212 385 1911

CURTAINWALL CONSULTANT: A.J.P. Consulting
 40 Worth Street, Suite 826
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LANDMARK/PRESERVATION CONSULTANT: Jan Hird Pokorny Associates, Inc.
 39 West 57th Street, 12A
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No.	DESCRIPTION	DATE
1	CD PROGRESS ISSUE 1	10-15-2014
2	ISSUED FOR CONSTRUCTION UP TO GROUND FLOOR ONLY	10-17-2014
3	ISSUED FOR CONSTRUCTION UP TO 5TH FLOOR ONLY	11-07-2014
4	ISSUED FOR CONSTRUCTION UP TO 7TH FLOOR ONLY	11-14-2014
5	DOB SUBMISSION	12-19-2014
6	DOB SUBMISSION	02-05-2015

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CONSULTANT: WSP
 228 East 45th Street
 New York, NY 10017
 (212) 687-9885
 www.wspgroup.com/usa

PROJECT: 217 WEST 57TH STREET
 NEW YORK, NY

DRAWING TITLE: SUB CELLAR 1 - PART GENERAL ARRANGEMENT AND REINFORCING PLAN

DATE: 10-15-2014

PROJECT No: 201218-217

Drawn: CAD

CHK: YE

SCALE: As Indicated

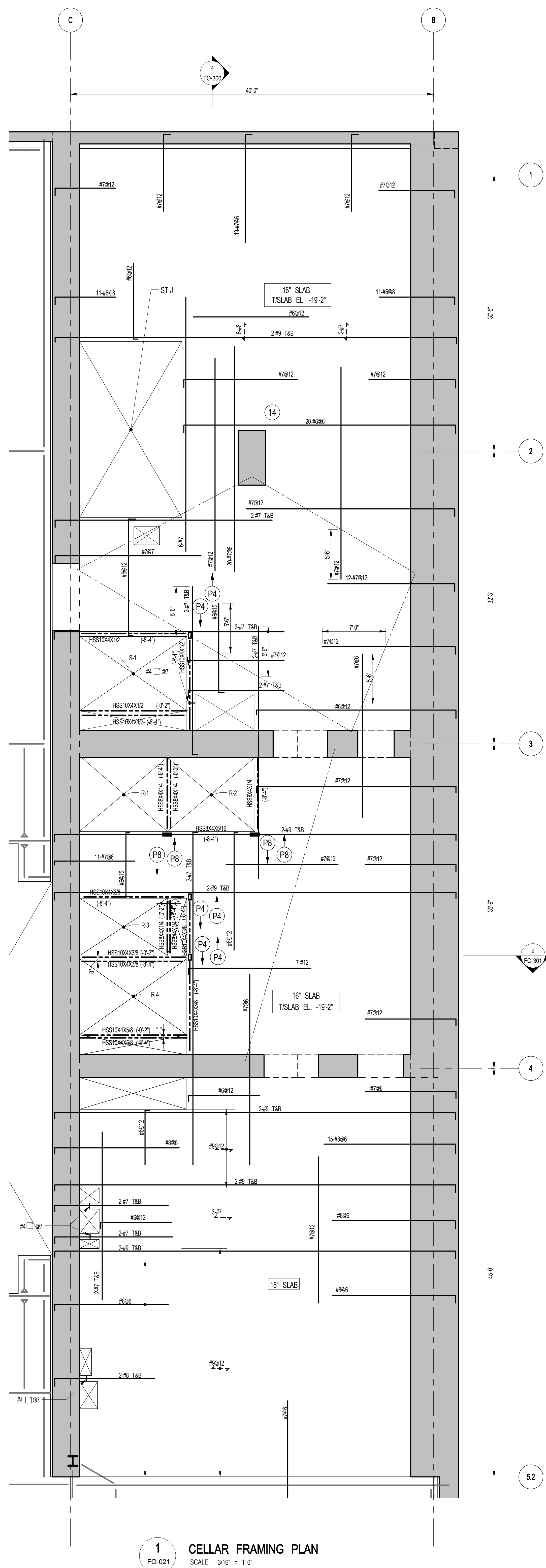
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DOB PAGE No: 6

DOB PAGE No: 6

DOB EMPLOYEE STAMP: [Stamp]

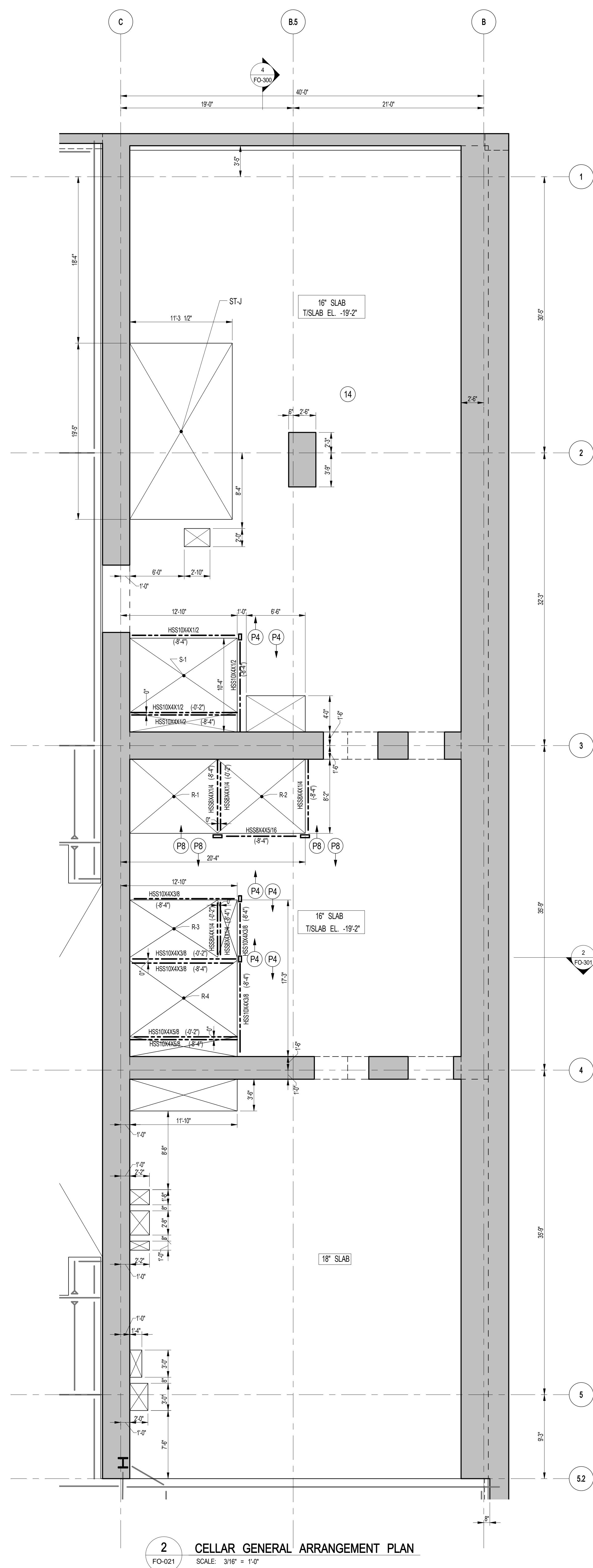
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1 CELLAR FRAMING PLAN

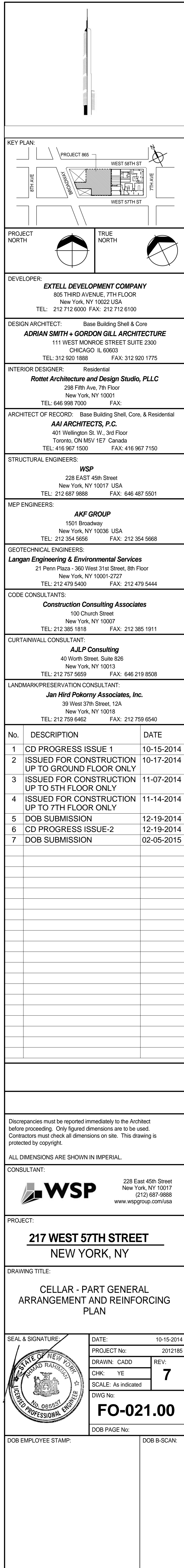
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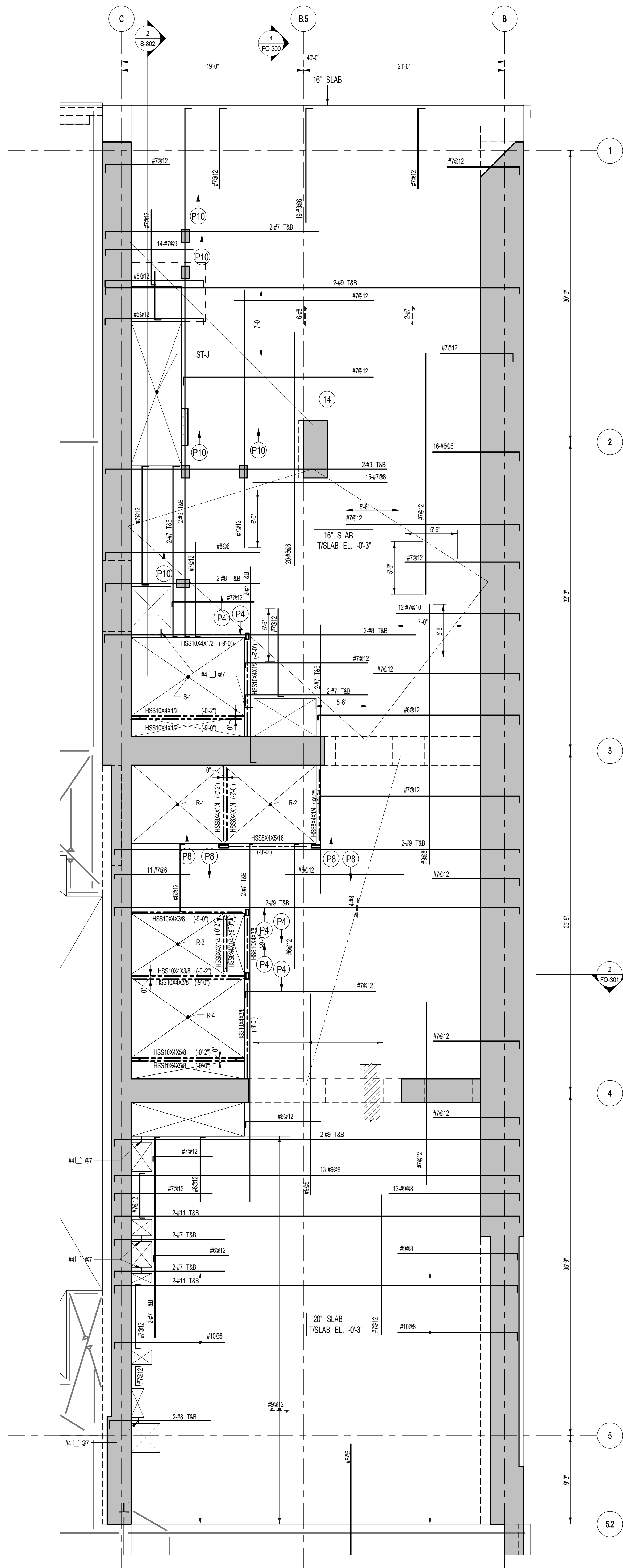
1. FOR TISLAB ELEVATION SEE S-020
2. CONCRETE SLAB SHALL BE 16" THICK U.O.N. THUS [] ON PLAN
3. CONCRETE STRENGTH f_c OF SLAB SHALL BE 10,000 psi.
4. BOTTOM REINFORCEMENT TO BE: #7@12 E.W. CONT. FOR 16" SLAB
AND #8@12 E.F. CONT. FOR 18" SLAB
5. FOR BALANCE OF INFORMATION SEE DRAWING S-001



2 CELLAR GENERAL ARRANGEMENT PLAN

NOTES:
1. FOR SLAB INFORMATION SEE CORRESPONDING FRAMING PLAN

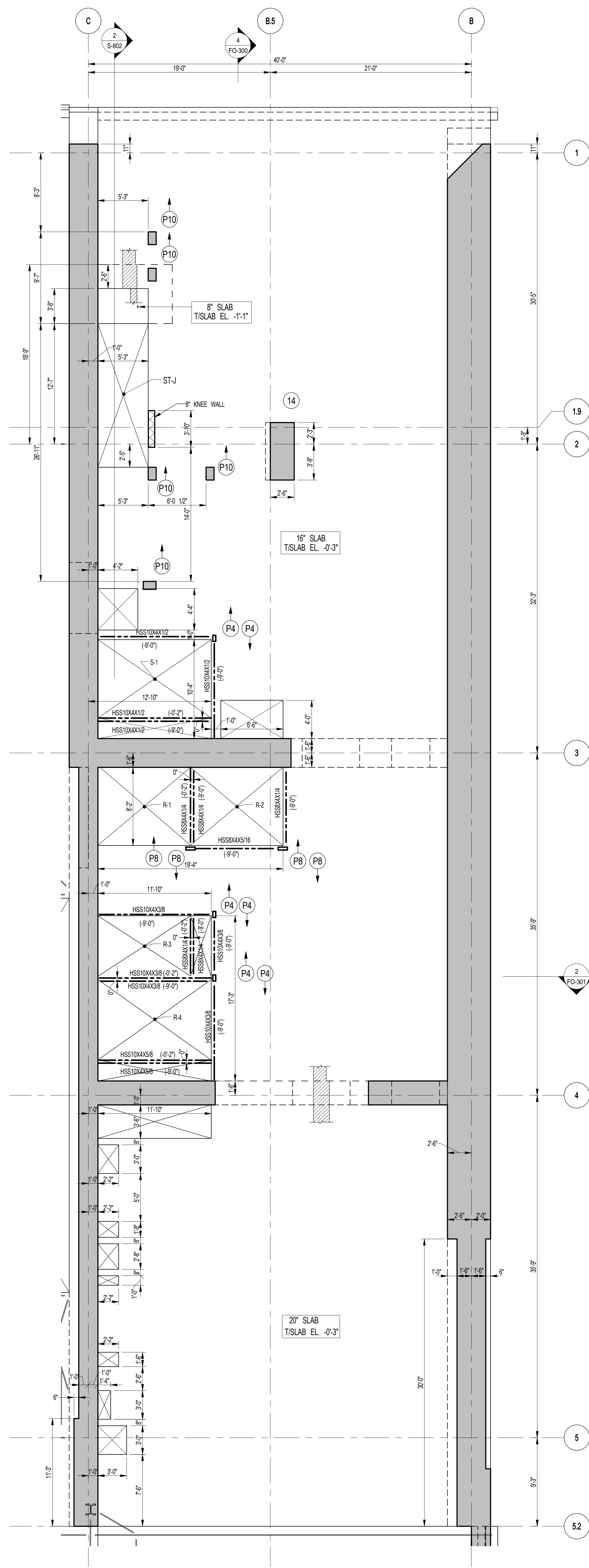




1
FO-111
SCALE: 3/16" = 1'-0"

NOTES:

1. FOR TSLAB ELEVATION SEE S-110.
2. CONCRETE SLAB SHALL BE 16" THICK U.O.N. THIS PLAN.
3. CONCRETE STRENGTH IN 30' SLAB SHALL BE 10,000 PSI.
4. BOTTOM REINFORCEMENT TO BE #7@12 E.W. CONT. FOR 16" SLAB.
#8@12 E.W. CONT. FOR 20" SLAB.
5. [P10] INDICATES 10x16 CONC. POST W/4-6 VERT. & #4 @ 812
6. FOR BALANCE OF INFORMATION SEE DRAWING S-001



2
FO-111
SCALE: 3/16" = 1'-0"

NOTES:

1. FOR SLAB INFORMATION SEE CORRESPONDING FRAMING PLAN.

DEPT OF BUILDINGS

Job Number

EST# 77588

Scan Code

KEY PLAN

PROJECT #101

TRUE NORTH

PROJECT NORTH

DEVELOPER: **EXTELL DEVELOPMENT COMPANY**
805 THIRD AVENUE, 7TH FLOOR
NEW YORK, NY 10022 USA
TEL: 212 712 6000 FAX: 212 712 6100

DESIGN ARCHITECT: **Base Building Shell & Core**
ADRIAN SMITH + GORDON GILL ARCHITECTURE
111 WEST MONROE STREET SUITE 2300
CHICAGO, IL 60603
TEL: 312 920 1888 FAX: 312 920 1775

INTERIOR DESIGNER: **Residential**
Rottet Architecture and Design Studio, PLLC
208 Fifth Ave., 7th Floor
New York, NY 10001
TEL: 646 989 7000 FAX:

ARCHITECT OF RECORD: **Base Building Shell, Core, & Residential**
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Toronto, ON M5V 1E7 Canada
TEL: 416 967 1500 FAX: 416 967 7150

STRUCTURAL ENGINEERS: **WSP**
228 East 45th Street
New York, NY 10017 USA
TEL: 212 687 9885 FAX: 646 487 5501

MEP ENGINEERS: **AKF GROUP**
1501 Broadway
New York, NY 10036 USA
TEL: 212 354 5656 FAX: 212 354 5668

GEOTECHNICAL ENGINEERS: **Langan Engineering & Environmental Services**
21 Penn Plaza - 360 West 31st Street, 8th Floor
New York, NY 10001-2727
TEL: 212 479 5400 FAX: 212 479 5444

CODE CONSULTANTS: **Construction Consulting Associates**
100 Church Street
New York, NY 10007
TEL: 212 385 1512 FAX: 212 385 1911

CURTAINWALL CONSULTANT: **AJLP Consulting**
40 Worth Street, Suite 826
New York, NY 10013
TEL: 212 757 5559 FAX: 646 219 8508

LANDMARK/PRESERVATION CONSULTANT: **Jan Hird Pokorny Associates, Inc.**
39 West 37th Street, 12A
New York, NY 10018
TEL: 212 759 6452 FAX: 212 759 6540

No.	DESCRIPTION	DATE
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4	ISSUED FOR CONSTRUCTION UP TO 7TH FLOOR ONLY	11-14-2014
5	DOB SUBMISSION	12-19-2014
6	CD PROGRESS ISSUE-2	12-19-2014
7	DOB SUBMISSION	02-05-2015

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CONSULTANT: **WSP**
228 East 45th Street
New York, NY 10017
(212) 687-9885
www.wspgroup.com/usa

PROJECT: **217 WEST 57TH STREET**
NEW YORK, NY

DRAWING TITLE: **GROUND FLOOR - PART GENERAL ARRANGEMENT AND REINFORCING PLAN**

SEAL & SIGNATURE

DATE: 10-15-2014

PROJECT No: 2012185

DRAWN: CADOD

CHK: YE

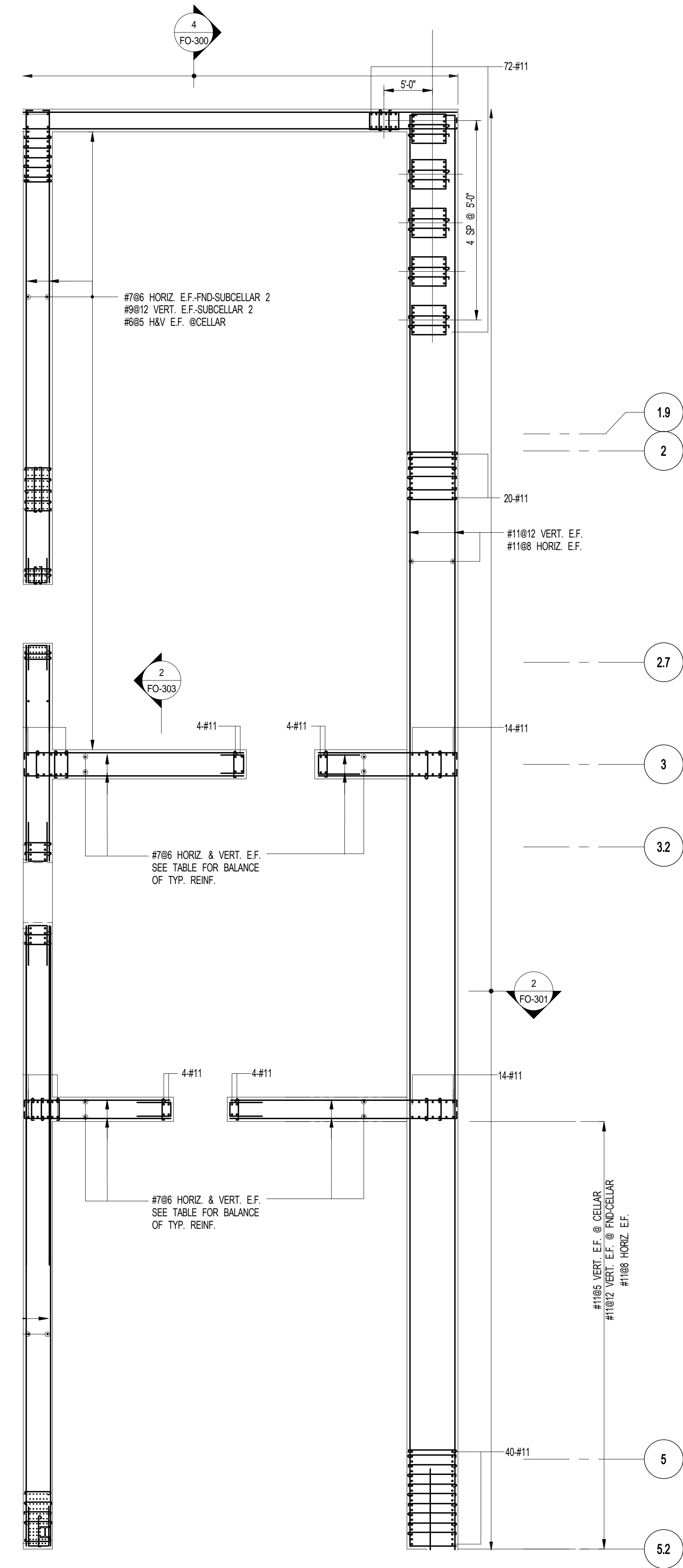
SCALE: As indicated

DWG No: **FO-111.00**

DOB PAGE No:

DOB EMPLOYEE STAMP:

DOB 5-SCAN:



FOR FOUNDATION DOWELS AND FOUNDATION/SHEARWALL
REINFORCEMENT UP TO GROUND FLOOR



1 SHEARWALL PLAN REINFORCEMENT DETAILS 1 - FOUNDATION UP TO GROUND FLOOR

NOTES:

1. FOR HORIZONTAL REINFORCEMENT IN FOUNDATION WALLS USE THE MORE ONEROUS OF THE TYPICAL SHEARWALL REINF. SCHEDULE ON S-430 OR AS SHOWN ON FOUNDATION WALL SECTIONS ON FO-300 SERIES.
2. SEE S-430 FOR SHEARWALL TYPICAL DETAILS.
3. SEE FO-001 FOR GENERAL NOTES.
4. ALL VERTICAL WALL REINFORCEMENT SHOWN ON THIS DWG. IS IN ADDITION TO REINFORCEMENT SHOWN ON FO-300 SERIES DWG.
5. ALL #11 VERTICAL REINF. SHALL BE GRADE 75.

KEY PLAN:

A key plan map showing the location of Project 805. The map is bounded by 5th Ave on the left, 7th Ave on the right, West 58th St on the top, and West 57th St on the bottom. Project 805 is a shaded rectangular area located between West 58th St and West 57th St, and between 5th Ave and 7th Ave. A north arrow is located in the top right corner. The map also shows a diagonal street labeled 'BIODUNA' running from the bottom left towards the center.

PROJECT NORTH		TRUE NORTH	
------------------	---	---------------	---

DEVELOPER:
EXTELL DEVELOPMENT COMPANY
805 THIRD AVENUE, 7TH FLOOR
New York, NY 10022 USA
TEL: 212 712 6000 FAX: 212 712 6100

DESIGN ARCHITECT: Base Building Shell & Core
ADRIAN SMITH + GORDON GILL ARCHITECTURE
111 WEST MONROE STREET SUITE 2300
CHICAGO IL 60603
TEL: 312 920 1888 FAX: 312 920 1775

INTERIOR DESIGNER: Residential
Rottet Architecture and Design Studio, PLLC
298 Fifth Ave., 7th Floor
New York, NY 10001
TEL: 646 998 7000 FAX:

ARCHITECT OF RECORD: Base Building Shell, Core, & Residential
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 Toronto, ON M5V 1E7 Canada
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228 EAST 45th Street
New York, NY 10017 USA
TEL: 212 687 9888 FAX: 646 487 5501

MEP ENGINEERS: **AKF GROUP**
1501 Broadway
New York, NY 10036 USA
TEL: 212 354 5656 FAX: 212 354 5688

GEOTECHNICAL ENGINEERS:
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21 Penn Plaza - 360 West 31st Street, 8th Floor
New York, NY 10001-2727
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CODE CONSULTANTS:
Construction Consulting Associates
100 Church Street
New York, NY 10007
TEL: 212 385 1818 FAX: 212 385 1811

CURTAINWALL CONSULTANT:
AJLP Consulting
40 Worth Street, Suite 826
New York, NY 10013
TEL: 212 757 5659 FAX: 646 219 8508

LANDMARK/PRESERVATION CONSULTANT:
Jan Hird Pokorny Associates, Inc.
39 West 37th Street, 12A
New York, NY 10018
TEL: 212 759 6462 FAX: 212 759 6540

No.	DESCRIPTION	DATE
1	SCHEMATIC DESIGN	03-31-2014
2	FOUNDATION BID PACKAGE	03-31-2014
3	ISSUED FOR SCHEMATIC DESIGN	04-04-2014
4	FOUNDATION BID PACKAGE	04-04-2014
5	SUPERSTRUCTURE CONCRETE BID	06-02-2014
6	DESIGN DEVELOPMENT	07-01-2014
7	ISSUED FOR DESIGN DEVELOPMENT	07-31-2014
8	STRUCTURAL STEEL BID	09-15-2014
9	STRUCTURAL STEEL BID-ADDENDUM	10-01-2014
10	CD PROGRESS ISSUE 1	10-15-2014
11	ISSUED FOR CONSTRUCTION	10-17-2014
12	5TH FLOOR ONLY	
13	ISSUED FOR CONSTRUCTION UP TO 5TH FLOOR ONLY	11-07-2014
13	DOB SUBMISSION	12-19-2014
14	DOB SUBMISSION	02-05-2015

Discrepancies must be reported immediately to the Architect before proceeding. Only figured dimensions are to be used. Contractors must check all dimensions on site. This drawing is protected by copyright.

ALL DIMENSIONS ARE SHOWN IN IMPERIAL

CONSULTANT:

 **WSP**


228 East 45th Street
New York, NY 10017
(212) 687-9888
www.wspgroup.com/usa

PROJECT:

217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:

SHEARWALL PLAN REINFORCEMENT
DETAILS 1 - FOUNDATION UP TO
GROUND FLOOR

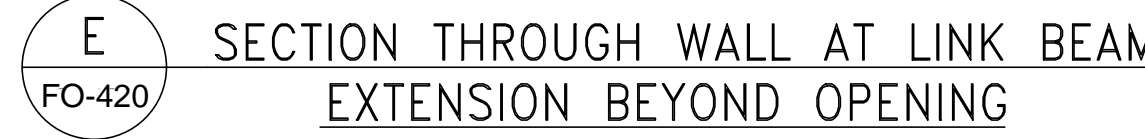
SEAL & SIGNATURE	DATE:	03-31-2014
	PROJECT NO:	2012185
	DRAWN: CADD	REV:
	CHK: YE	14
	SCALE: 1/8" = 1'-0"	
	DWG No:	FO-400.00

DOB EMPLOYEE STAMP:		DOB B-SCAN:
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[illegible]



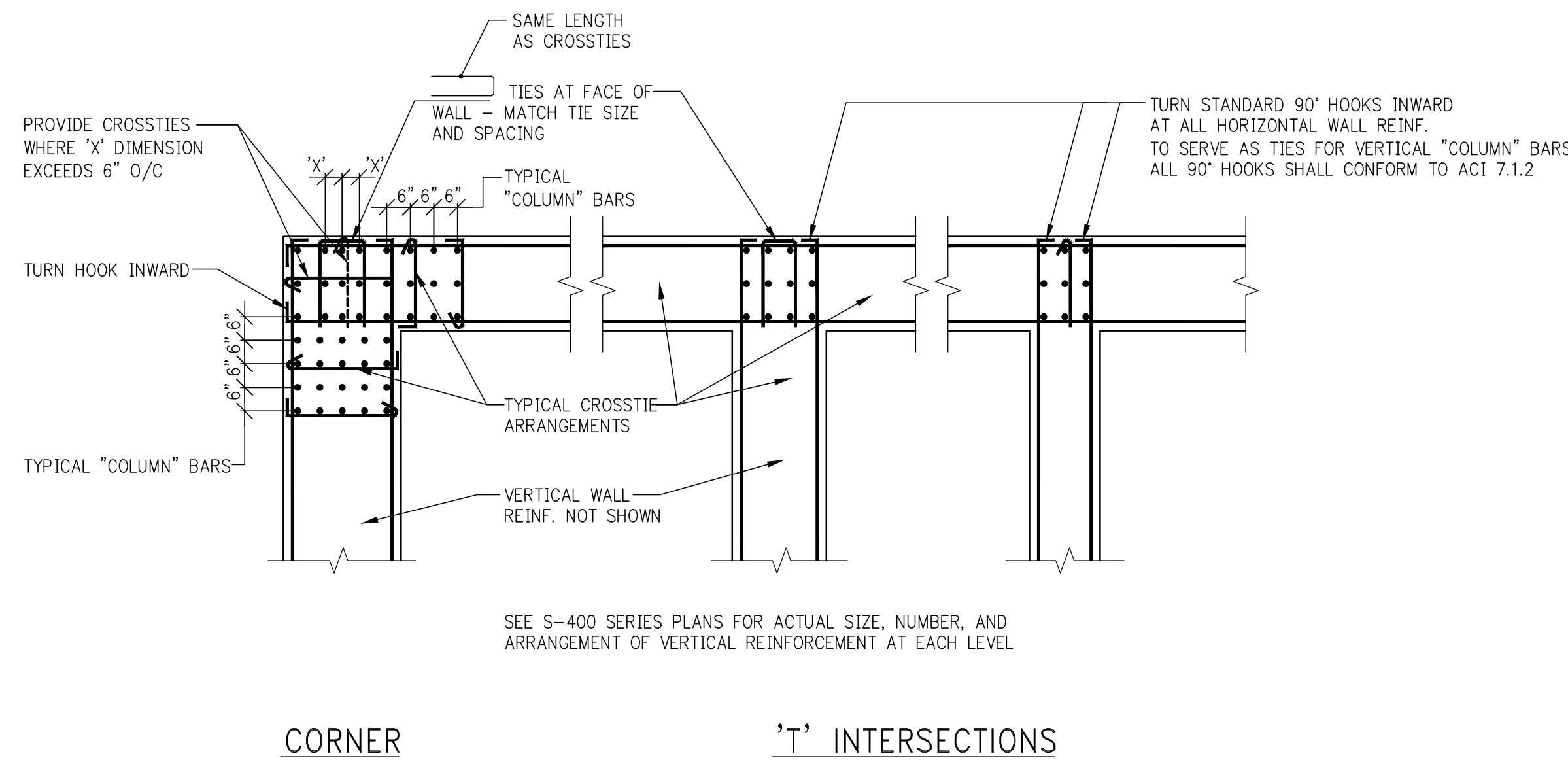
- ALL SHEARWALL REINFORCEMENT (HORIZONTAL AND VERTICAL) SHALL BE PLACED IN THE CENTER OF THE WALL.
- USE SLIP SPACE IN S-9600 SERIES DRAWINGS.
- ALL NON-TYPICAL VERTICAL BARS UNSUPPORTED BY LATERAL BRACING SHALL BE EXTENDED TO MORE THAN 6" CLEAR ON BOTH SIDES FROM SUCH EXTERNALLY PLACED BRACING.
- ALTERNATE 90° AND 135° ENDS ON CONSECUTIVE SINGLE LEG CROSSTIES SHALL BE USED TO MAINTAIN HEIGHT.
- FOR MINIMUM TYPICAL REINFORCEMENT SEE SCHEDULE 5.
- WHERE HEAVIER REINFORCEMENT IS SHOWN ON S-4000 SERIES ELEVATIONS OF REINFORCEMENT, HEAVIER REINFORCEMENT SHALL BE SHOWN ON S-5000 SERIES DRAWINGS. PLANS, UNLESS NOTED AS "ADDITIONAL" (AN ASTERISK) SHALL BE USED TO REINFORCEMENT SHOWN ON ELEVATIONS.
- NO OPENING OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS MAY BE PLACED WITHOUT APPROVAL OF THE A.E.C.O.R.
- CONTRACTOR SHALL SUBMIT CONSOLIDATED SHOP DRAWINGS FOR REVIEW AND APPROVAL BY THE A.E.C.O.R. (SUCH AS STRUCTURAL, ARCHITECTURAL, MEP) TO THE OFFICE OF RECORD FOR REVIEW AND APPROVAL.
- NO REVISIONS TO REINFORCEMENT SHALL BE PERMITTED IN SHEARWALLS WITHOUT WRITTEN AUTHORIZATION FROM THE A.E.C.O.R. REVISIONS TO REINFORCEMENT SHALL BE AS DENIED BY THE A.E.C.O.R.
- REINFORCEMENT SHALL BE SHOWN FOR SHEARWALL LOCATIONS, DIMENSIONS, REINFORCEMENT, OPENINGS, LINK BEAM LOCATIONS, ETC.
- FOR ALL LINK BEAM SIZES SEE LINK BEAM SCHEDULE IN S-4400 SERIES DRAWINGS.
- FOR ALL LINK BEAM SIZES ON S-5000 SERIES DRAWINGS FOR CONCRETE STRENGTH REQUIRED AT EACH LEVEL.
- FOR MINIMUM REQUIRED MODULUS OF ELASTICITY OF CONCRETE SEE SCHEDULE 5.



NOTES:

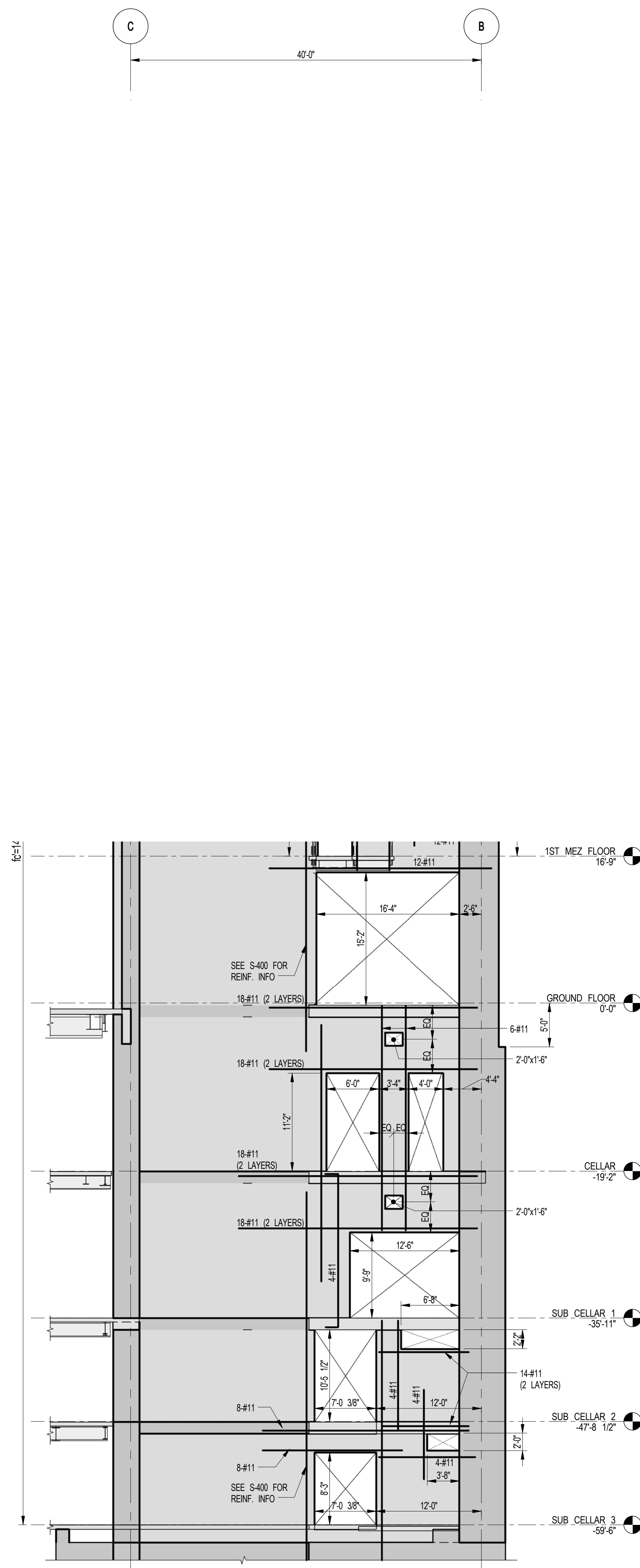
1. LOCATE LOWEST SET OF TIES S/2 ABOVE TOP OF SLAB
2. LOCATE TOP SET OF TIES WITHIN S/2 OF BOTTOM REINFORCEMENT IN SLAB OR LINK BEAM.

NOTE:
COLUMN CONCRETE STRENGTH REQUIRED AT EACH
LEVEL IS DEFINED ON THE COLUMN SCHEDULE(S)
IN THE S-950 SERIES DRAWINGS.



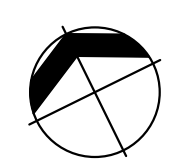
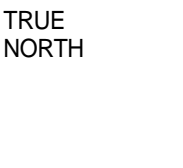
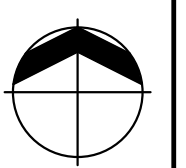
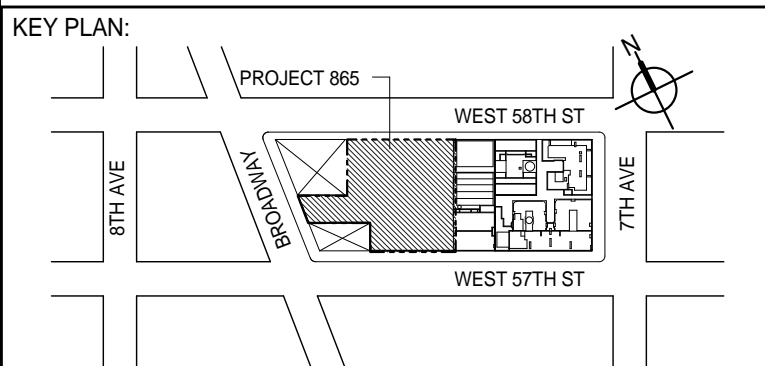
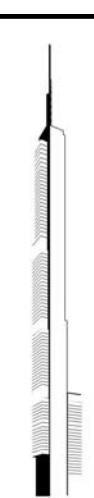
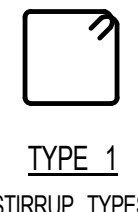
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NOTES:

1. ALL REINFORCEMENT SHOWN ON THESE ELEVATIONS IS IN ADDITION TO REINFORCEMENT SHOWN PLANS IN S-400 SERIES DRAWINGS.
2. * INDICATES REINFORCEMENT SHOWN ON ELEVATION IS TO BE USED IN U/E OF REINFORCEMENT SHOWN ON PLAN.
3. FOR HORIZONTAL REINFORCEMENT IN FOUNDATION WALLS USE THE MORE ONEROUS OF THE TYPICAL SHEARWALL REINF. SCHEDULE ON S-430 OR AS SHOWN ON FOUNDATION WALL SECTIONS ON FO-300 SERIES.
4. ALL #11 VERTICAL REINF. SHALL BE GRADE 75.
5. FOR TYPICAL DETAILS, SEE DRAWINGS S-430.



DEVELOPER: **EXTELL DEVELOPMENT COMPANY**
805 THIRD AVENUE, 7TH FLOOR
New York, NY 10022 USA
TEL: 212 712 6000 FAX: 212 712 6100

DESIGN ARCHITECT: Base Building Shell & Core
ADRIAN SMITH + GORDON GILL ARCHITECTURE
111 WEST MONROE STREET SUITE 2300
CHICAGO IL 60603
TEL: 312 920 1888 FAX: 312 920 1775

INTERIOR DESIGNER: Residential
Rottet Architecture and Design Studio, PLLC
298 Fifth Ave, 7th Floor
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TEL: 646 998 7000 FAX:

ARCHITECT OF RECORD: Base Building Shell, Core, & Residential
AAI ARCHITECTS, P.C.
401 Wellington St. W., 3rd Floor
Toronto, ON M5V 1E7 Canada
TEL: 416 967 1500 FAX: 416 967 7150

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39 West 37th Street, 12A
New York, NY 10018
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No.	DESCRIPTION	DATE
1	ISSUED FOR DESIGN DEVELOPMENT	07-31-2014
2	CD PROGRESS ISSUE 1	10-15-2014
3	ISSUED FOR CONSTRUCTION UP TO GROUND FLOOR ONLY	10-17-2014
4	ISSUED FOR CONSTRUCTION UP TO 5TH FLOOR ONLY	11-07-2014
5	ISSUED FOR CONSTRUCTION UP TO 7TH FLOOR ONLY	11-14-2014
6	DOB SUBMISSION	12-19-2014
7	DOB SUBMISSION	01-09-2015
8	DOB SUBMISSION	02-05-2015

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CONSULTANT:

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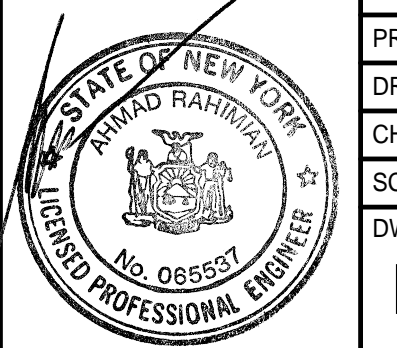
PROJECT:

217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:

SHEARWALL ELEVATIONS ALONG
GRIDLINE 3 (1 OF 3)

SEAL & SIGNATURE:	DATE:	07-31-2014
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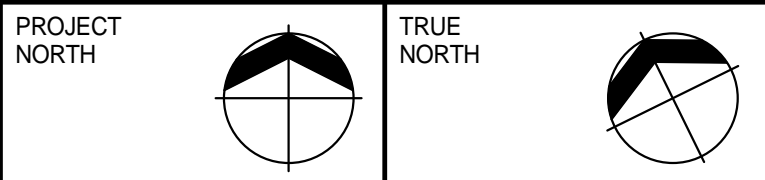
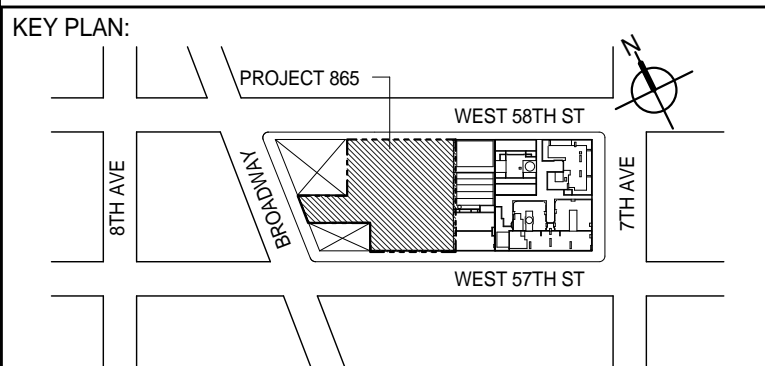


PROJECT No: 2012185



1 SHEARWALL EL. ALONG GL 4
FO-453 SCALE: 1/8" = 1'-0"

NOTES:
1. FOR NOTES SEE DRAWING S-450



DEVELOPER:
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805 THIRD AVENUE, 7TH FLOOR
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INTERIOR DESIGNER: Residential
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CURTAINWALL CONSULTANT:
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LANDMARK/PRESERVATION CONSULTANT:
Jan Hird Pokorny Associates, Inc.
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TEL: 212 759 6462 FAX: 212 759 6540

No.	DESCRIPTION	DATE
1	CD PROGRESS ISSUE 1	10-15-2014
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3	ISSUED FOR CONSTRUCTION UP TO 5TH FLOOR ONLY	11-07-2014
4	ISSUED FOR CONSTRUCTION UP TO 7TH FLOOR ONLY	11-14-2014
5	DOB SUBMISSION	12-19-2014
6	DOB SUBMISSION	01-09-2015
7	DOB SUBMISSION	02-05-2015

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PROJECT:

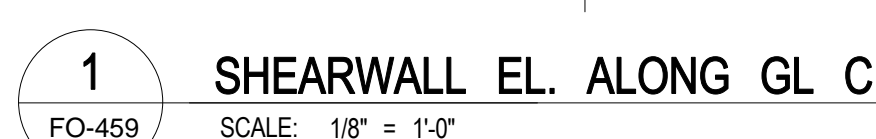
217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:

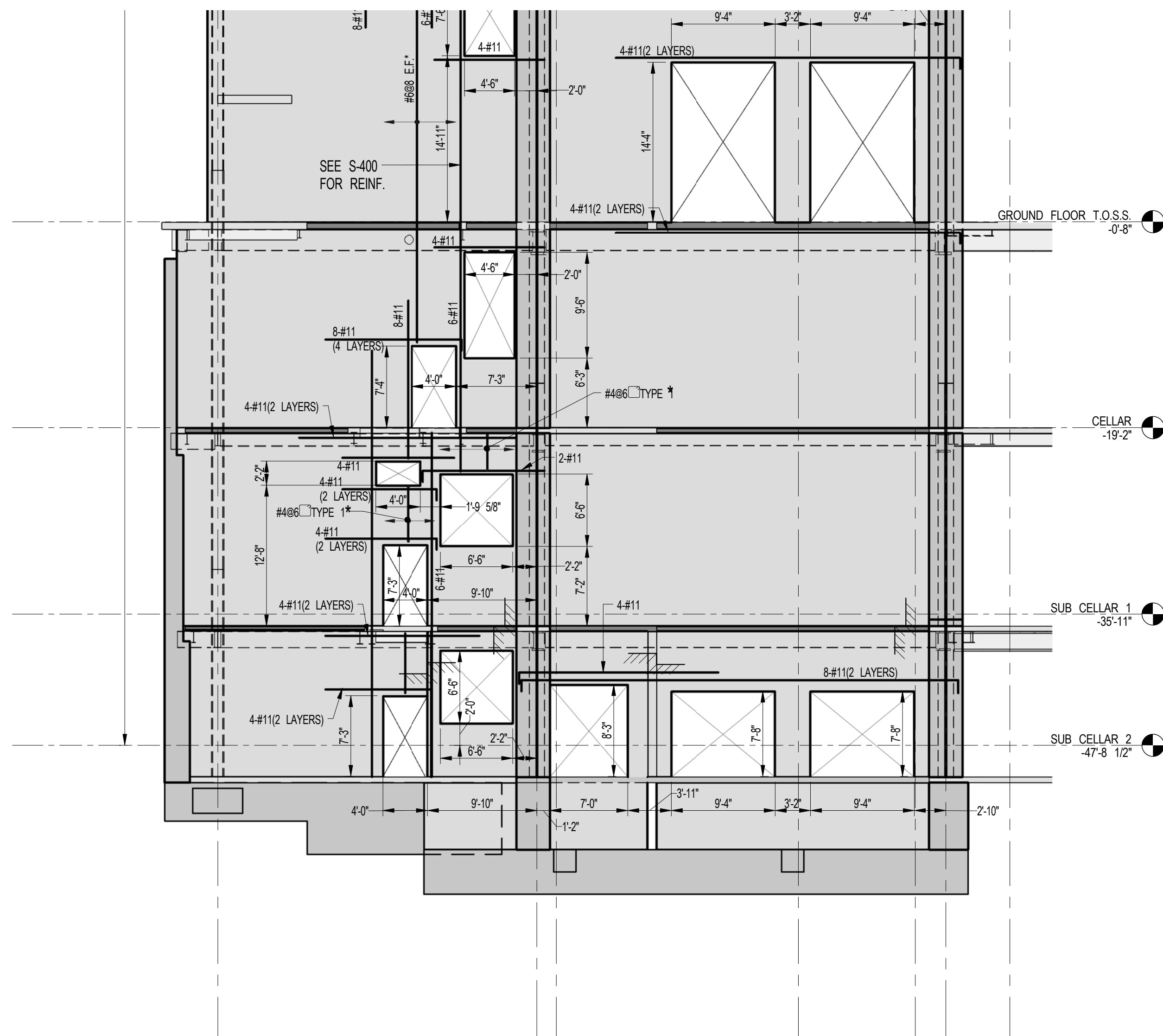
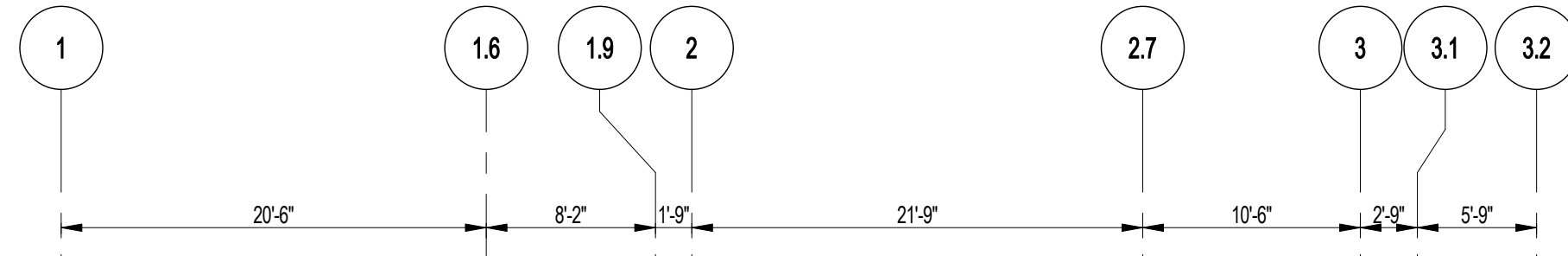
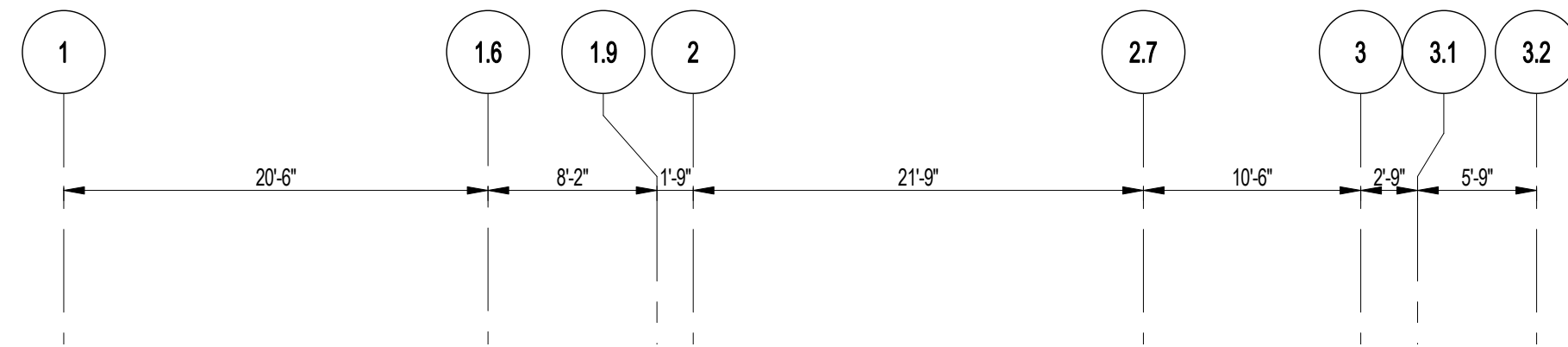
SHEARWALL ELEVATIONS ALONG
GRIDLINE 4 (1 OF 3)

SEAL & SIGNATURE 	DATE: 10-15-2014	
	PROJECT No: 2012185	
	DRAWN: CADD	REV:
	CHK: YE	7
	SCALE: 1/8" = 1'-0"	
DWG No: FO-453.00		

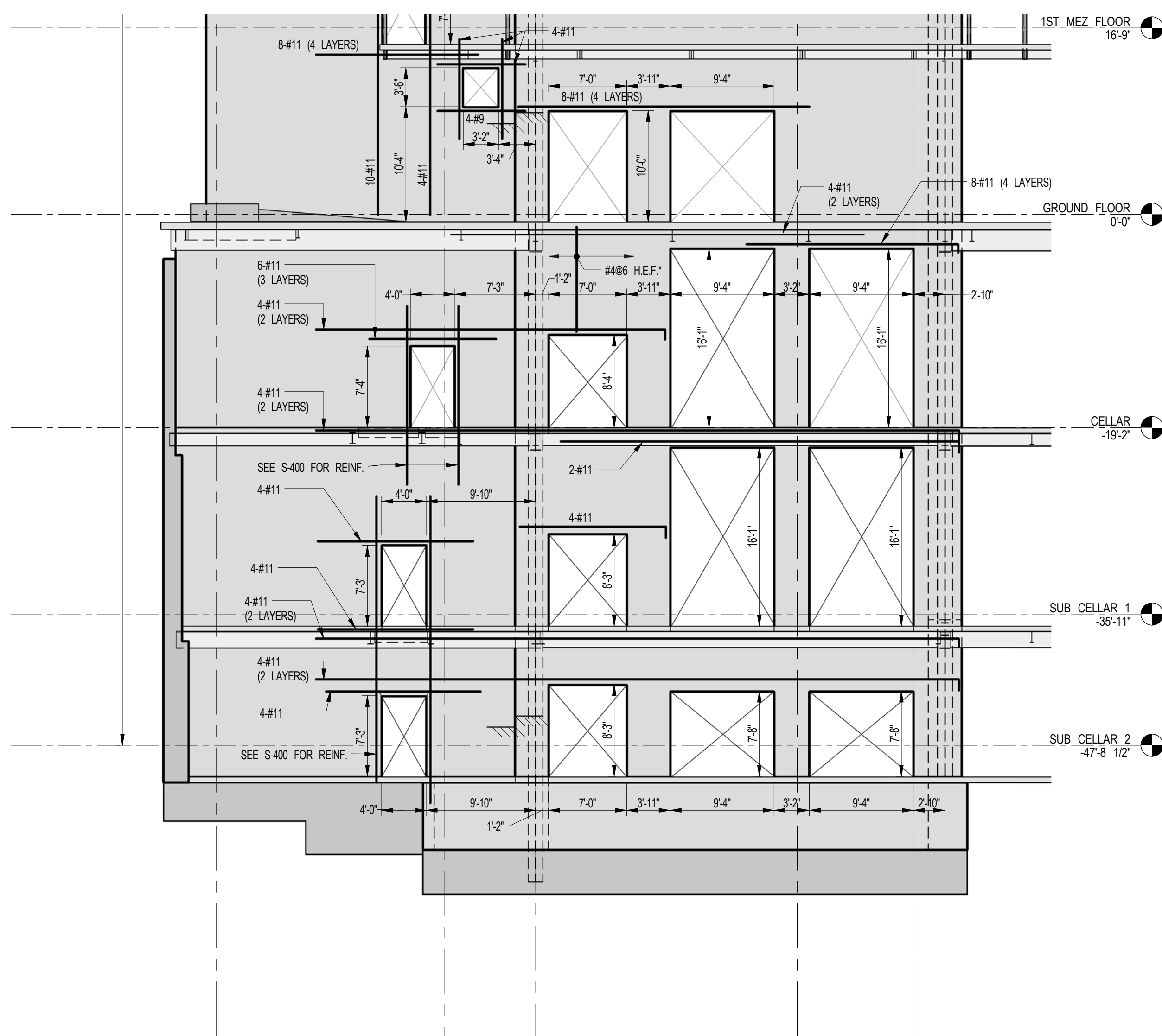
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NOTES:
1. FOR NOTES SEE DRAWING S-450



1 SHEARWALL ELEVATION ALONG GL G
FO-463 SCALE: 1/8" = 1'-0"



2 SHEARWALL ELEVATION ALONG GL G.4
FO-463 SCALE: 1/8" = 1'-0"

NOTES:
1. FOR NOTES SEE DRAWING S-450.

KEY PLAN

PROJECT #101

TRUE NORTH

PROJECT NORTH

DEVELOPER:

DESIGN ARCHITECT:

INTERIOR DESIGNER:

ARCHITECT OF RECORD:

STRUCTURAL ENGINEERS:

MEP ENGINEERS:

GEOTECHNICAL ENGINEERS:

CODE CONSULTANTS:

CURTAINWALL CONSULTANT:

LANDMARK/PRESERVATION CONSULTANT:

EXTELL DEVELOPMENT COMPANY

Base Building Shell & Core

Residential

AAJ ARCHITECTS, P.C.

WSP

AKF GROUP

Langan Engineering & Environmental Services

Construction Consulting Associates

AJLP Consulting

Jan Hird Pokorny Associates, Inc.

No.	DESCRIPTION	DATE
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5	DOB SUBMISSION	12-19-2014
6	DOB SUBMISSION	02-05-2015

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CONSULTANT:

PROJECT:

DRAWING TITLE:

SEAL & SIGNATURE

DATE:

PROJECT No:

DRAWN: CAD

CHK: YE

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

DWG No:

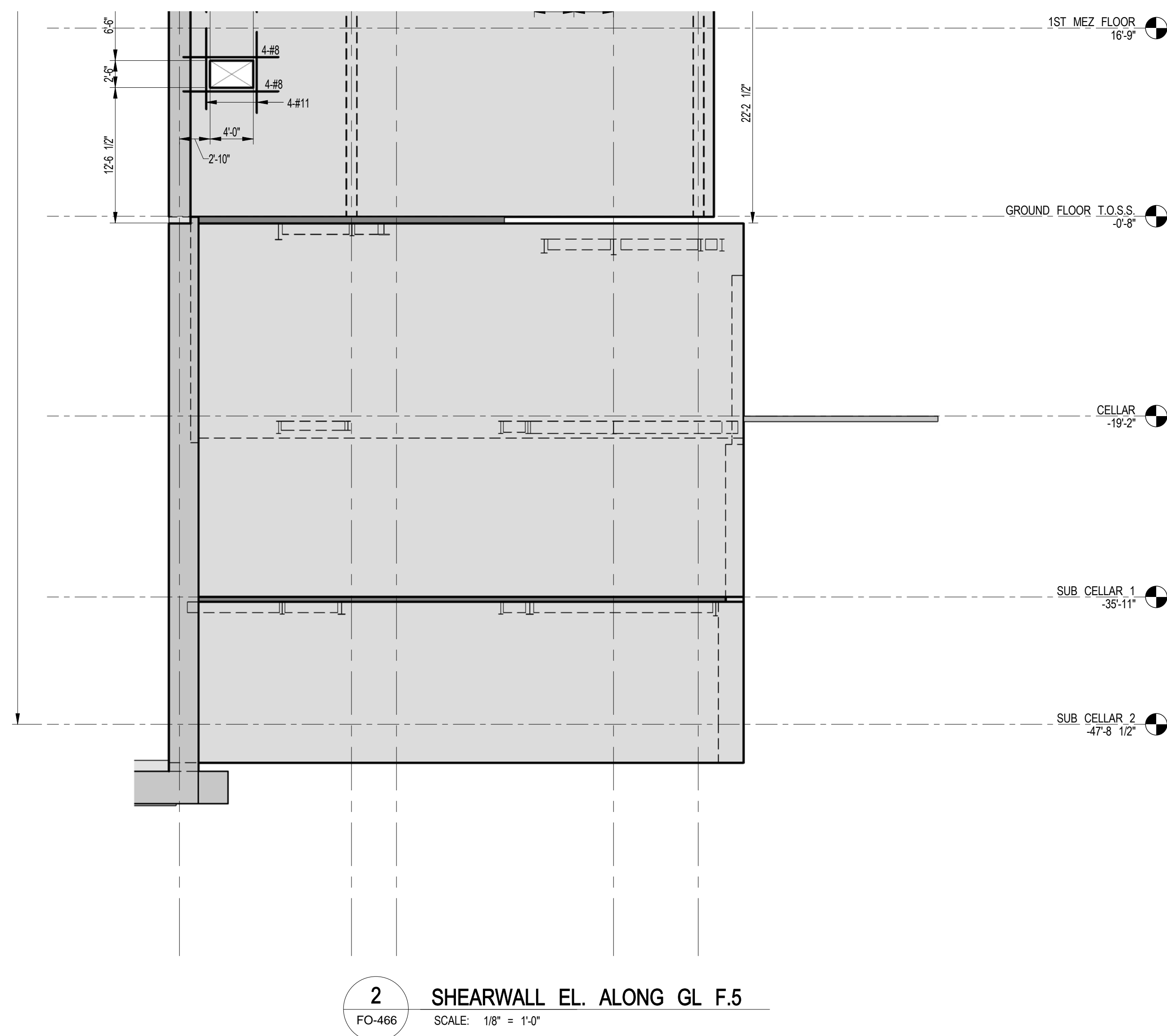
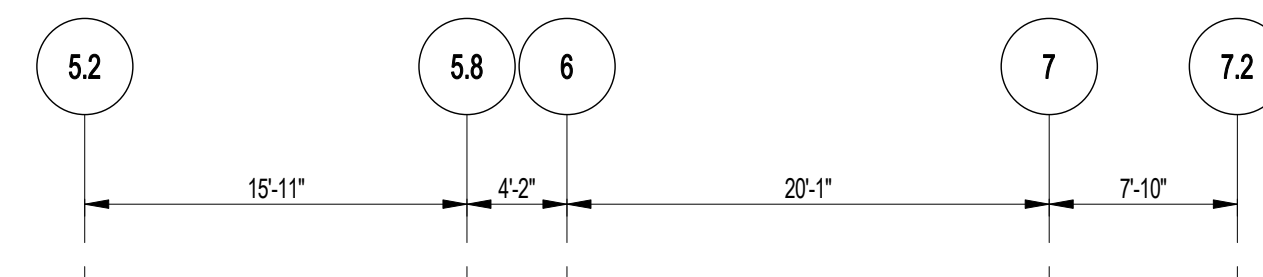
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DOB 5-SCAN:

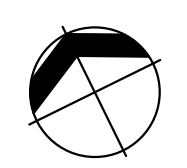
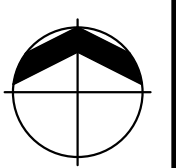
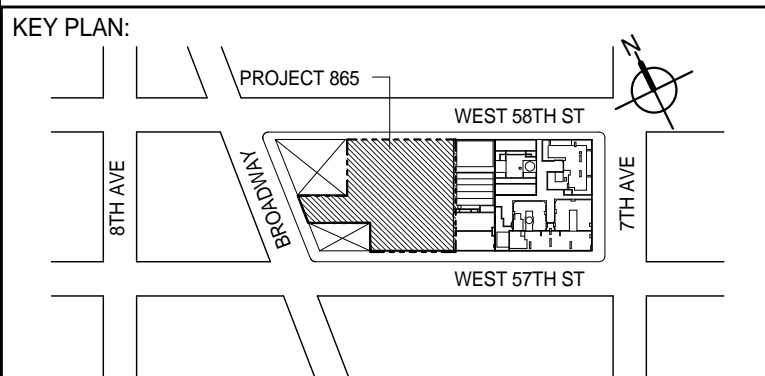
2012185

REV: 6

FO-463.00



NOTES:
1. FOR NOTES SEE DRAWING S-450



DEVELOPER: **EXTELL DEVELOPMENT COMPANY**
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No.	DESCRIPTION	DATE
1	CD PROGRESS ISSUE 1	10-15-2014
2	ISSUED FOR CONSTRUCTION UP TO 5TH FLOOR ONLY	11-07-2014
3	ISSUED FOR CONSTRUCTION UP TO 7TH FLOOR ONLY	11-14-2014
4	DOB SUBMISSION	12-19-2014
5	DOB SUBMISSION	02-05-2015

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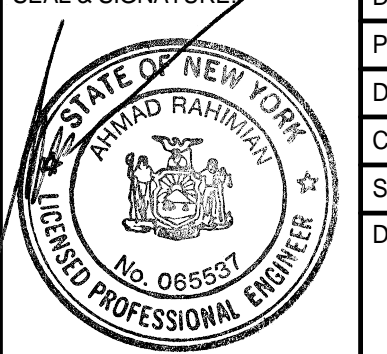
PROJECT:

217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:

SHEARWALL ELEVATIONS ALONG
GRIDLINE A & F.5

SEAL & SIGNATURE: _____	DATE: _____	XX XX XX
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DATE: XX XX XX

PROJECT NO.	2012165
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


RAWN: CADD	REV:
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HK: YE 5

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

WG No:
FO-466.00

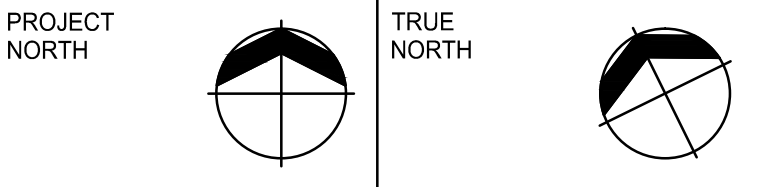
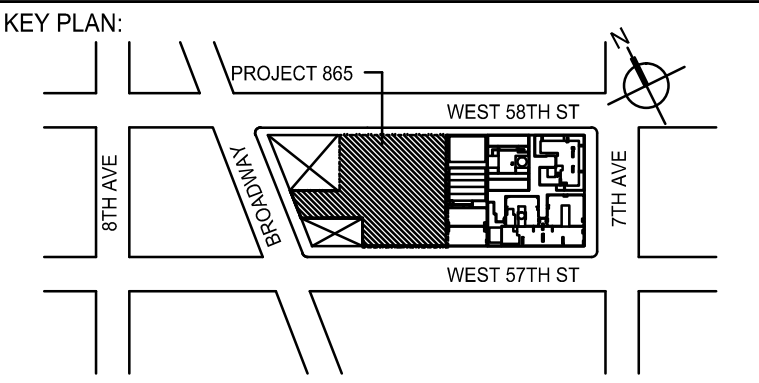
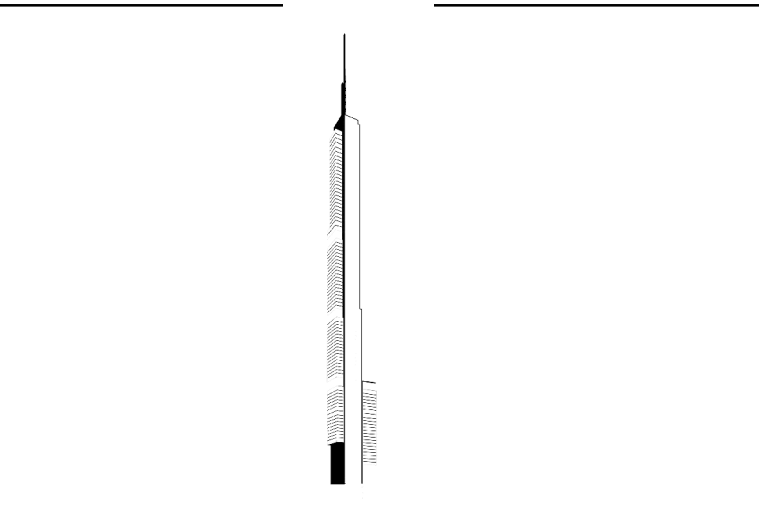
OB PAGE No:

- NOTES:
1. FIRST COLUMN DIMENSION SHOWN IN SCHEDULE IS IN THE EAST-WEST DIRECTION.
 2. LOADS ON FOUNDATIONS ARE SERVICE LOADS IN KIPS.
 3. LOADS ARE GIVEN IN KIPS, AND ARE ULTIMATE LOADS U.O.N.
 4. FOR CONCRETE STRENGTH REQUIRED SEE COLUMN SCHEDULES.
 5. COLUMN SIZES AND REINFORCEMENT ARE SHOWN ONLY WHERE SIZES START AND STOP. BLANK SPACES IN BETWEEN INDICATE SAME SIZE AS INDICATED ABOVE AND BELOW.
 6. HEAVY LINE AT TOP INDICATES TOP OF COLUMN.
 7. FOR GENERAL NOTES SEE DWG. FD-001
 8. FOR SHEARWALL DETAILS SEE DRAWING S-430.
 9. FOR COLUMN AND REINFORCING DETAILS SEE DRAWING S-513.
 10. BUTTRESS INDICATED AS "BT" IN COLUMN SCHEDULE.
 11. ALL #11 REINFORCEMENT SHALL BE ASTM A615 GR.75 (Fy=75ksi)
 12. * INDICATES TENSION SPLICE REBARS. SEE DETAIL ON S-513.
 13.  INDICATE SHEARWALLS.
 14.  INDICATES COLUMN BEING PICKED UP BY BEAM OR SLAB.
 15.  INDICATES CHANGES IN HELD FACE OF COLUMN.
 16.  INDICATES ADDITIONAL LOAD FROM PICK-UP BEAM OR SLAB.

COLUMN
SCHEDULE
1A

COL. NO.	13	14	15	54
FLOOR				

		17'-0"	30' x 72"	14776	
1		16'-11"	30' x 72"	14473	
CELLAR		16'-5"	36' x 72"	15222	
SUB-CELLAR 1		11'-5 1/2"		15450	
SUB-CELLAR 2		11'-5 1/2"		15679	
SUB-CELLAR 3			36' x 72"		
			30' x 72"		
FLOOR					
COL. NO.	13	14	15	54	



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No.	DESCRIPTION	DATE
1	SUPERSTRUCTURE CONCRETE BID	06-02-2014
2	DESIGN DEVELOPMENT	07-01-2014
3	ISSUED FOR DESIGN DEVELOPMENT	07-31-2014
4	CD PROGRESS ISSUE 1	10-15-2014
5	ISSUED FOR CONSTRUCTION UP TO 5TH FL ONLY	11-07-2014
6	DOB SUBMISSION	12-19-2014
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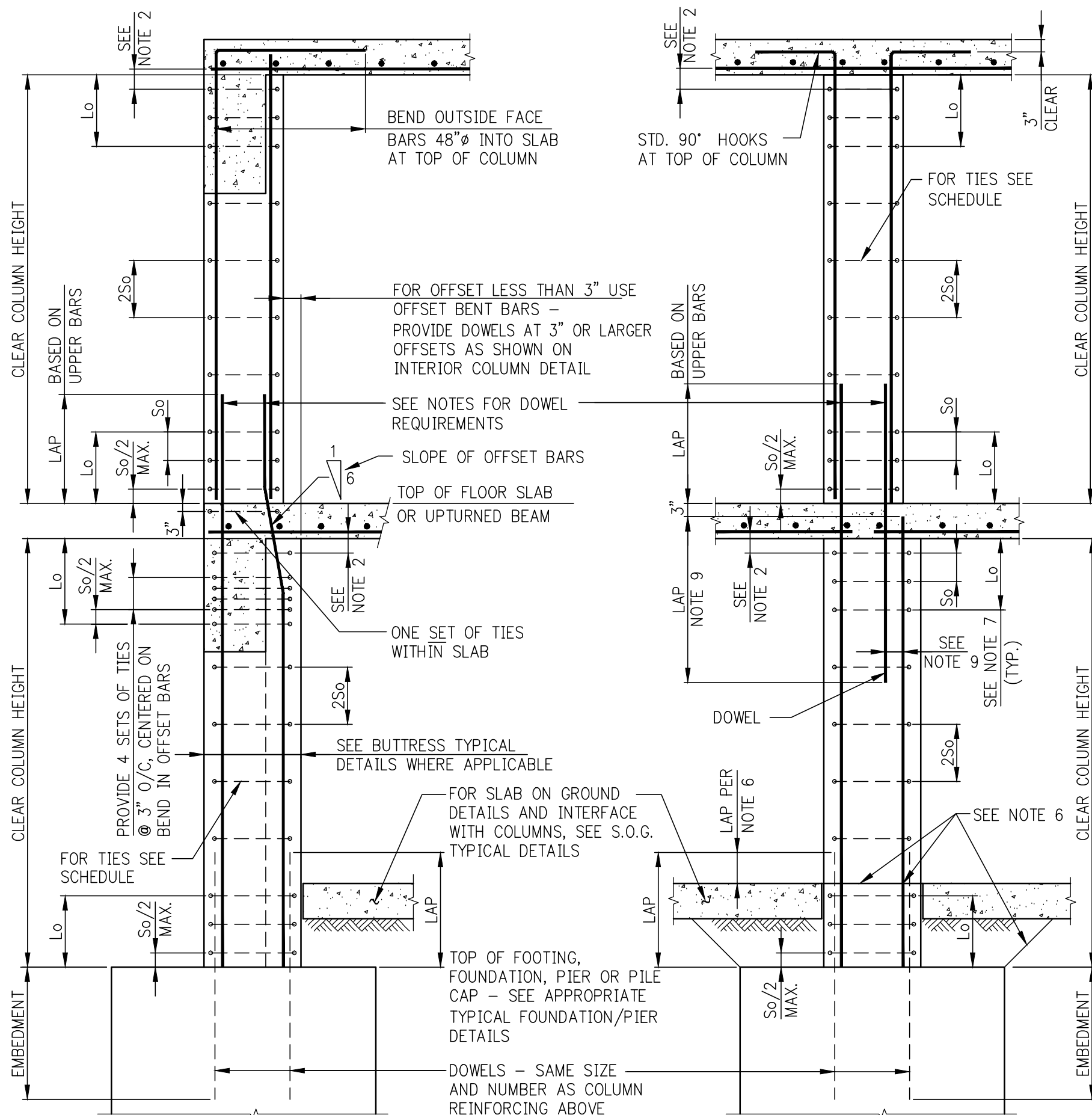
CONSULTANT:
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(212) 687-9886
www.wspgroup.com/usa

PROJECT:
**217 WEST 57TH STREET
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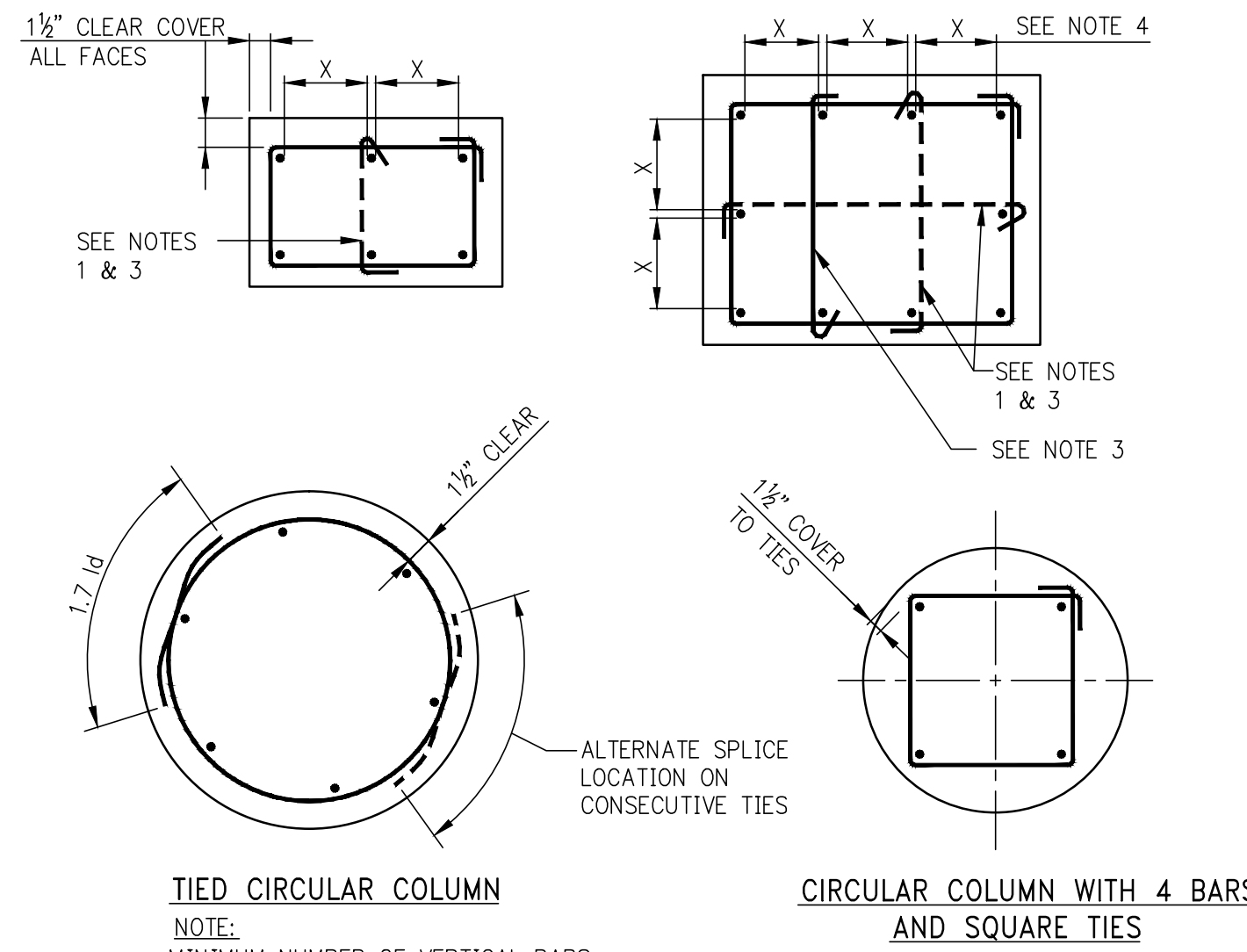
**CONCRETE COLUMN
SCHEDULE 1**

SEAL & SIGNATURE	DATE: 03/31/14	
	PROJECT No: 2012185	
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	CHK: Y. E.	SCALE: AS INDICATED
	DWG No: FO-510.00	DOB PAGE No: of
DOB EMPLOYEE STAMP:	DOB S-CAN:	



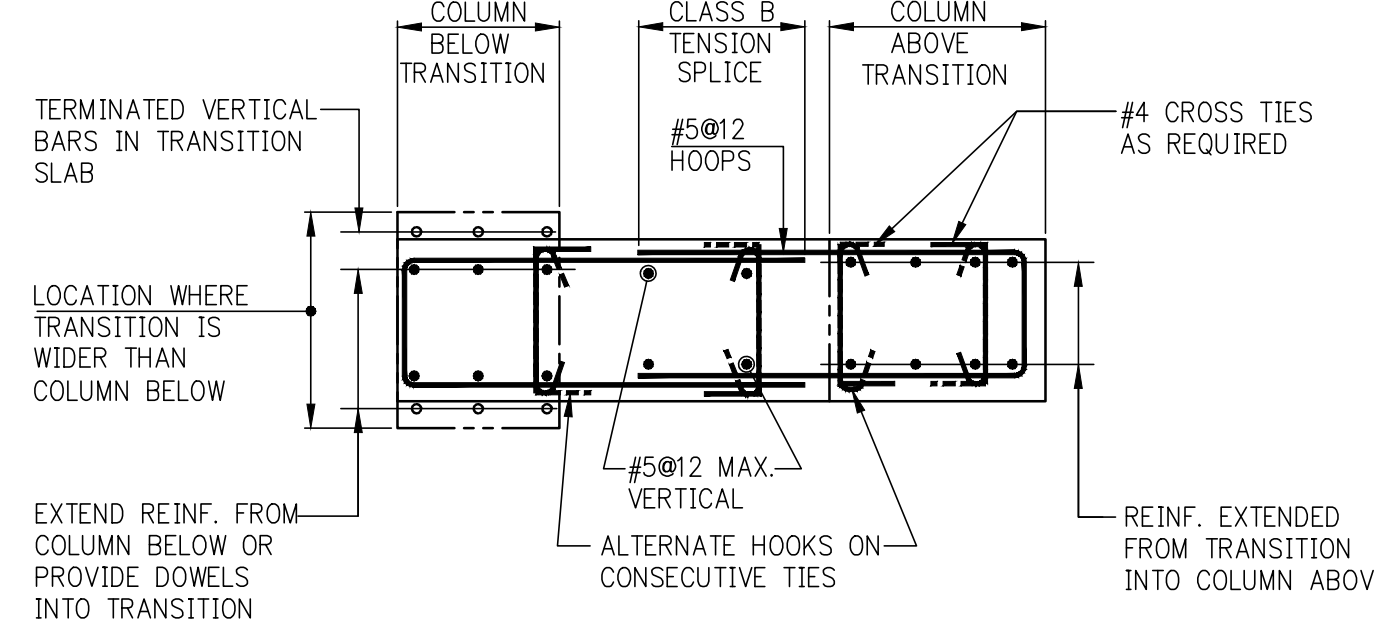
- NOTES:**
- #3 TIES NOT PERMITTED FOR #11, #14, #18 OR BUNDLED VERTICAL BARS.
 - LOCATE TOP SET OF TIES $S_6/2$ MAXIMUM BELOW THE LOWEST HORIZONTAL REINFORCEMENT IN SLAB OR DROP PANEL. WHERE BEAMS FRAME FROM FOUR DIRECTIONS INTO COLUMN, TIES MAY TERMINATE NOT MORE THAN 3" BELOW LOWEST REINFORCEMENT 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 TENSION SPLICE 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.
 - LENGTH "L" SHALL NOT BE LESS THAN 1/6 OF CLEAR HEIGHT OF COLUMN, MAXIMUM COLUMN DIMENSION, OR 18".
 - IF COLUMN REQUIRES SHEAR REINFORCEMENT, MAXIMUM SPACING OF TIES SHALL BE LIMITED TO $d/2$, REQUIRED SIZE, NUMBER AND SPACING OF TIES MAY BE MORE STRINGENT THAN SHOWN IN TYPICAL DETAILS.
 - IF OFFSET OF DOWEL IS MORE THAN 6", LAP SHALL BE TWICE THE COMPRESSION DEVELOPMENT LENGTH OF THE SMALLER BAR.

VERTICAL BAR SIZE	COLUMN TIE SCHEDULE		
	SIZE & SPACING (S) OF TIES, IN INCHES. MAXIMUM SPACING NOT TO EXCEED 1/6 OF LEAST COLUMN DIMENSION OR 12". SEE NOTE 8	#3	#4
#5	5	-	-
#6	6	-	-
#7	7	-	-
#8	8	-	-
#9	9	-	-
#10	9	10	-
#11	-	11	11
#14	-	12	12
#18	-	12	12

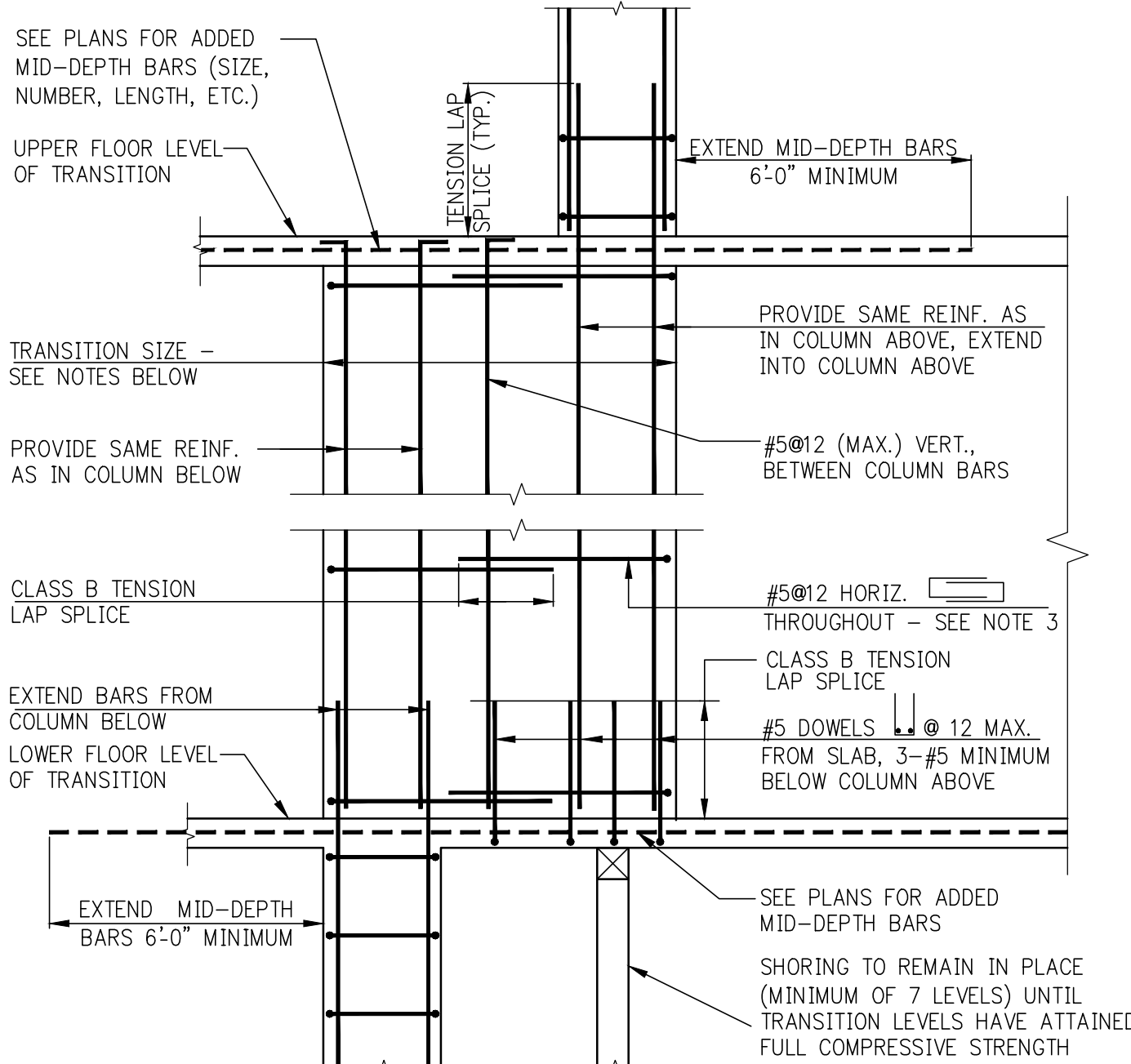
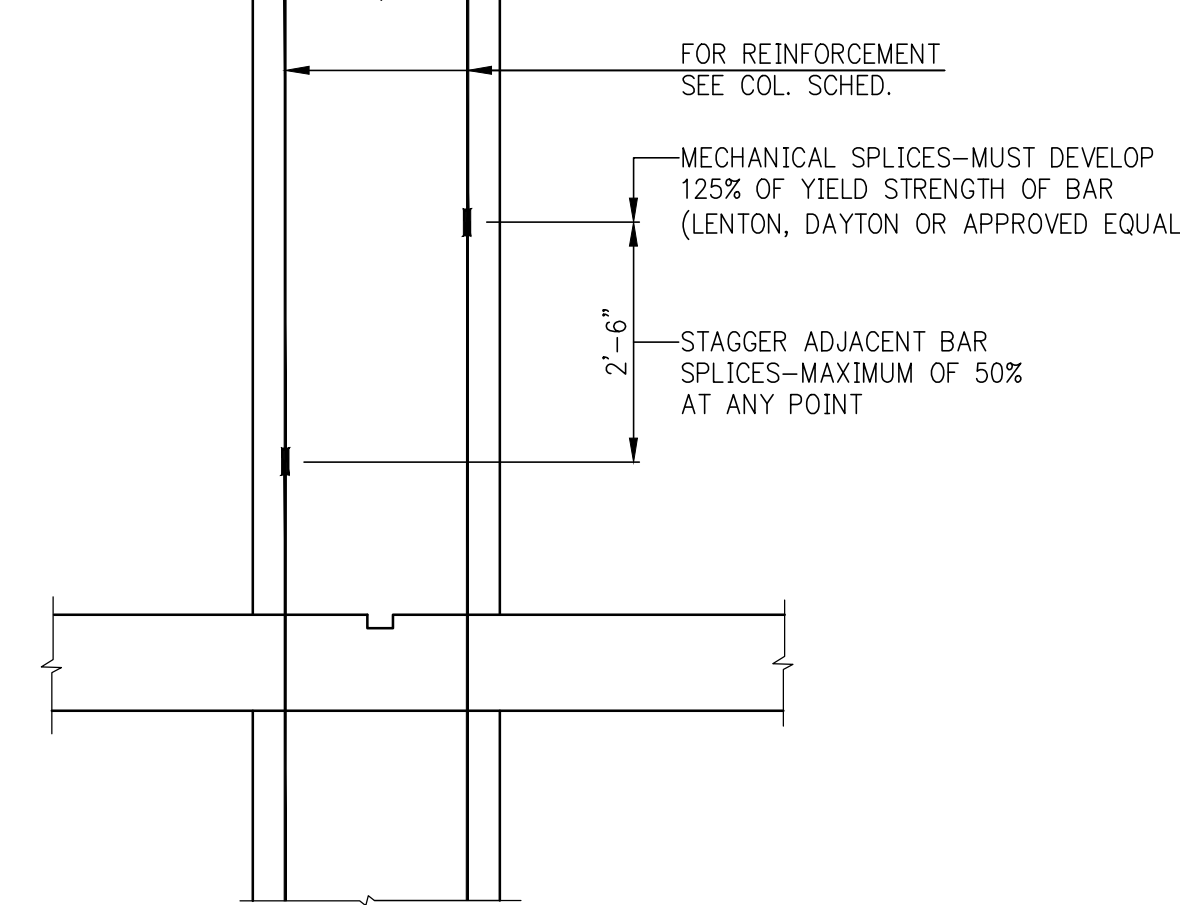


COLUMN REINFORCEMENT AND TIES ARRANGEMENT

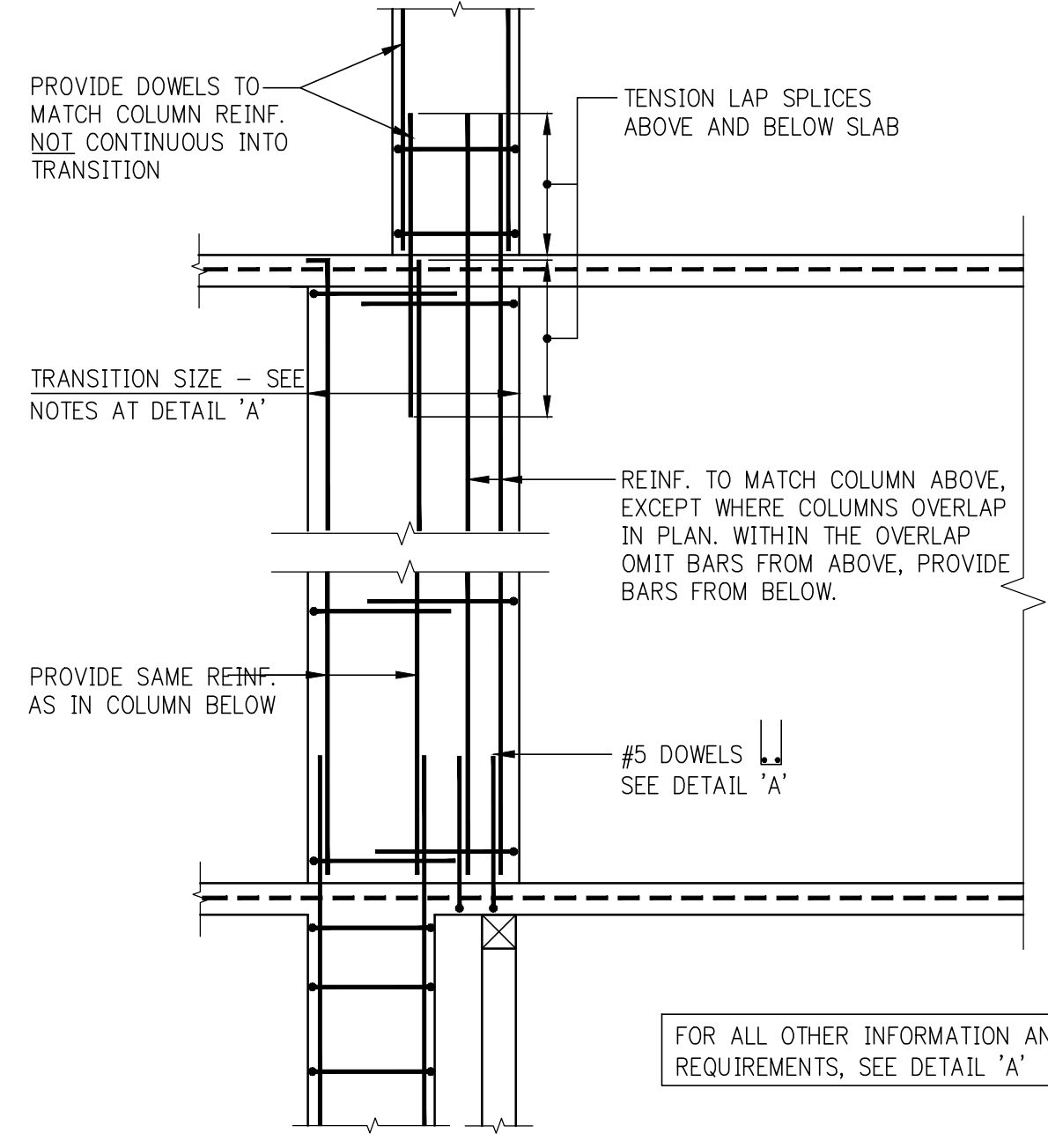
- NOTES:**
- SINGLE LEG CROSS-TIES SHOWN DASHED MAY BE OMITTED WHEN THE VERTICAL BAR IS NO FARTHER THAN 6" CLEAR ON EACH SIDE FROM ADJACENT TIED BARS.
 - WHEN THERE IS A SERIES OF VERTICAL BARS (SUCH AS IN WALL-LIKE COLUMNS) AND BARS ARE SPACED NOMINALLY AT 6" O/C, EVERY OTHER VERTICAL BAR WILL REQUIRE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



MECHANICAL SPICE DETAIL

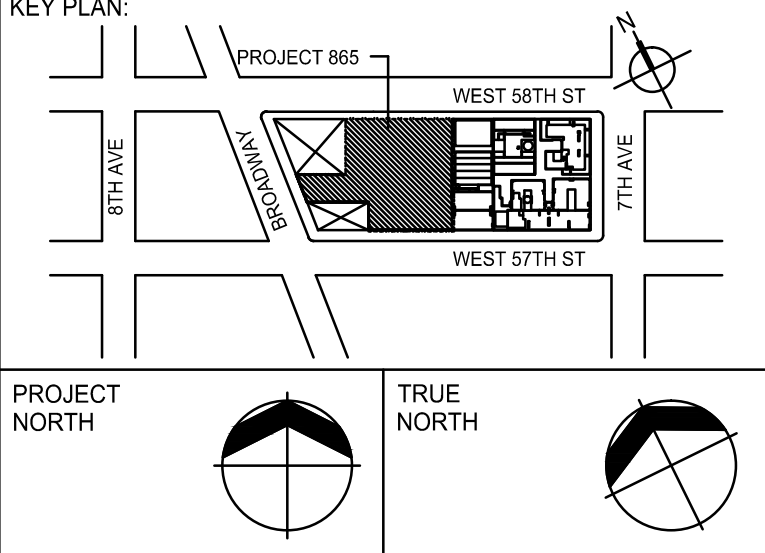


- NOTES:**
- FOR DIMENSIONS AND LOCATION OF TRANSITION SEE COLUMN LOCATION PLANS AND/OR COLUMN SCHEDULE.
 - VERTICAL REINFORCEMENT IN TRANSITION TO BE AS SHOWN IN DETAILS 'A' AND 'B' UNLESS THE COLUMN SCHEDULE CALLS FOR SPECIFIC VERTICAL REINFORCEMENT WITHIN THE TRANSITION.
 - IN ADDITION TO #5/12 HORIZONTAL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



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

FOR ALL OTHER INFORMATION AND REQUIREMENTS, SEE DETAIL 'A'



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No.	DESCRIPTION	DATE
1	SCHEMATIC DESIGN	03-31-2014
2	FOUNDATION BID PACKAGE	03-31-2014
3	ISSUED FOR SCHEMATIC DESIGN	04-04-2014
4	FOUNDATION BID PACKAGE	04-04-2014
5	STEEL BID PACKAGE	05-22-2014
6	SUPERSTRUCTURE CONCRETE BID	06-02-2014
7	DESIGN DEVELOPMENT	07-01-2014
8	ISSUED FOR DESIGN DEVELOPMENT	07-23-2014
9	SEE ZONE STEEL BID	08-20-2014
10	CD PROGRESS ISSUE 1	10-15-2014
11	DOB SUBMISSION	12-19-2014
12	DOB SUBMISSION	02-05-2015

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PROJECT:
217 WEST 57TH STREET
NEW YORK, NY

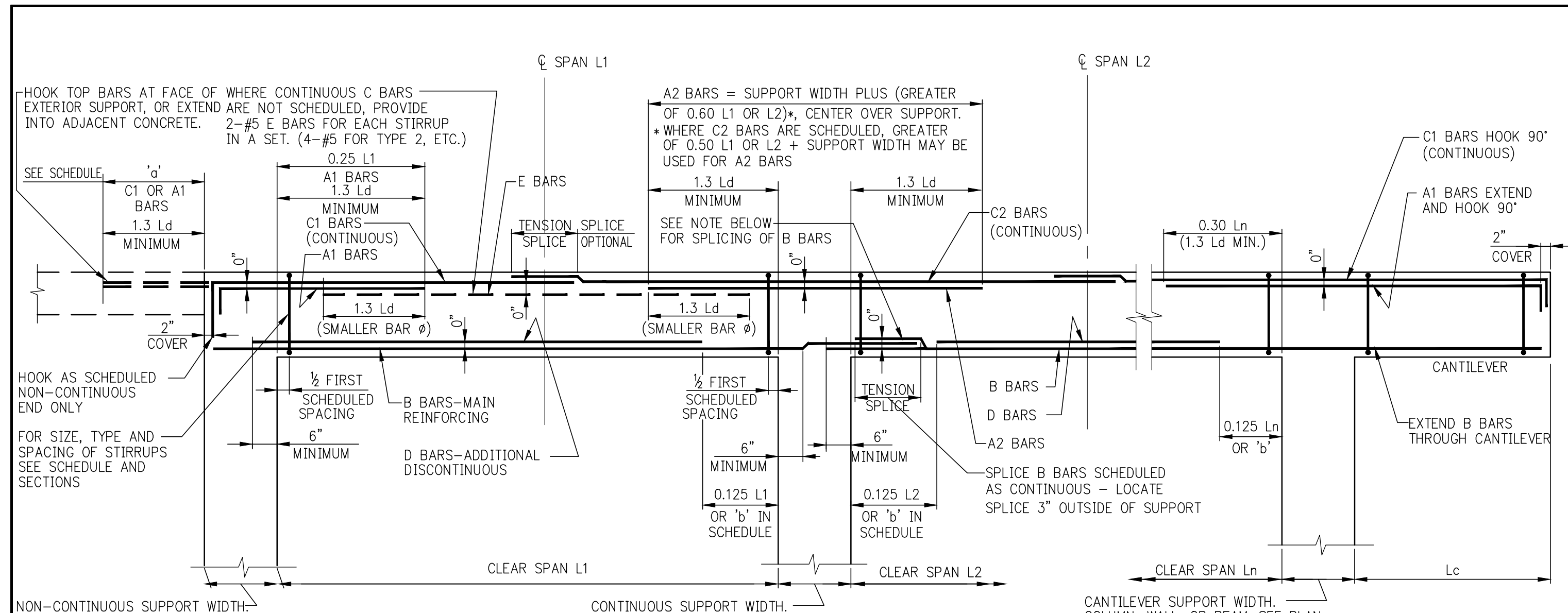
DRAWING TITLE:
TYPICAL CONCRETE COLUMNS DETAILS 1

SEAL & SIGNATURE:

DATE: 03/31/14
PROJECT No: 2012185
DRAWN: CADDO
CHK: Y.E.
SCALE: AS INDICATED
DWG No: FO-513.00

DOB PAGE No: of
DOB B-SCAN:

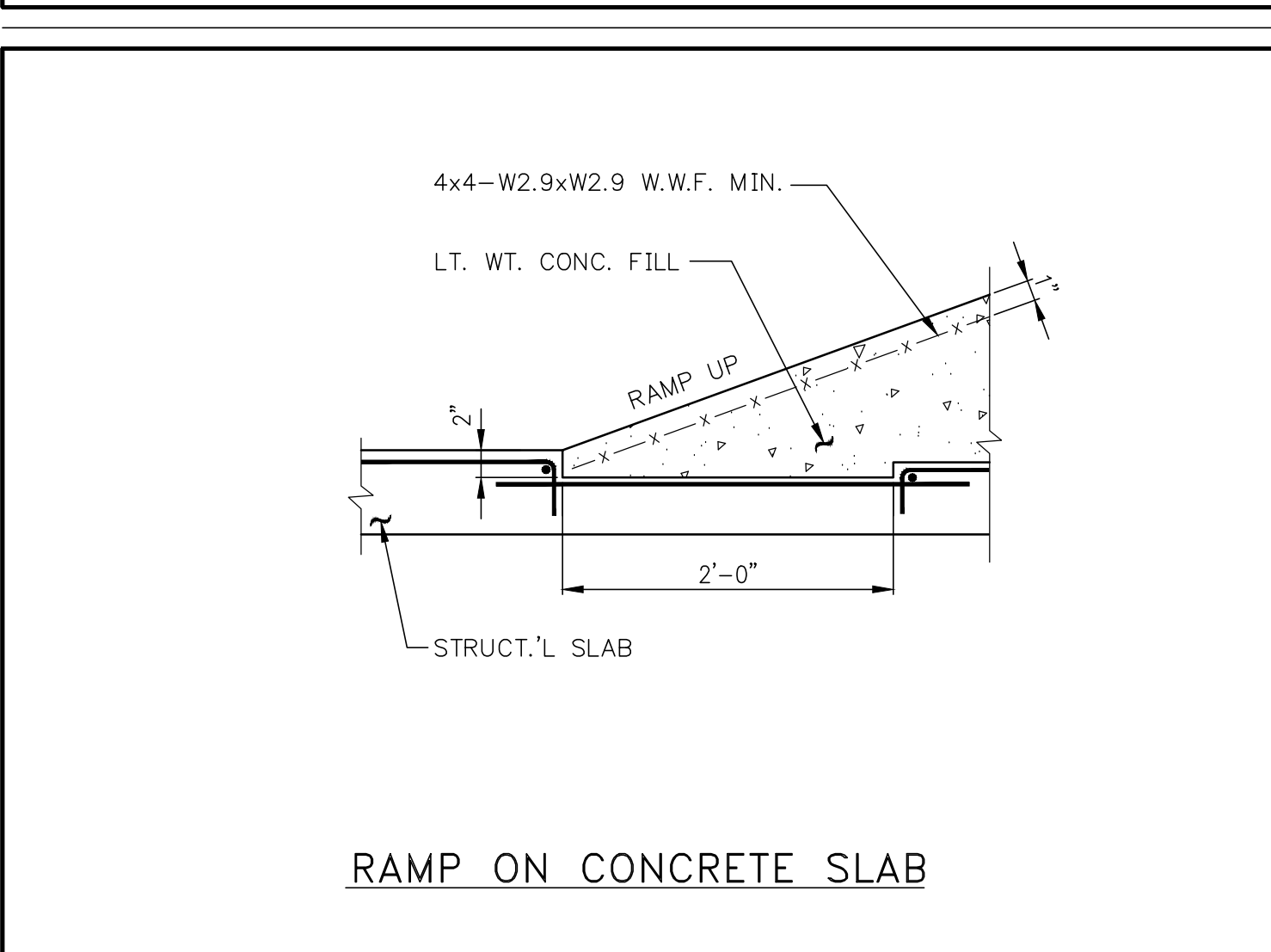
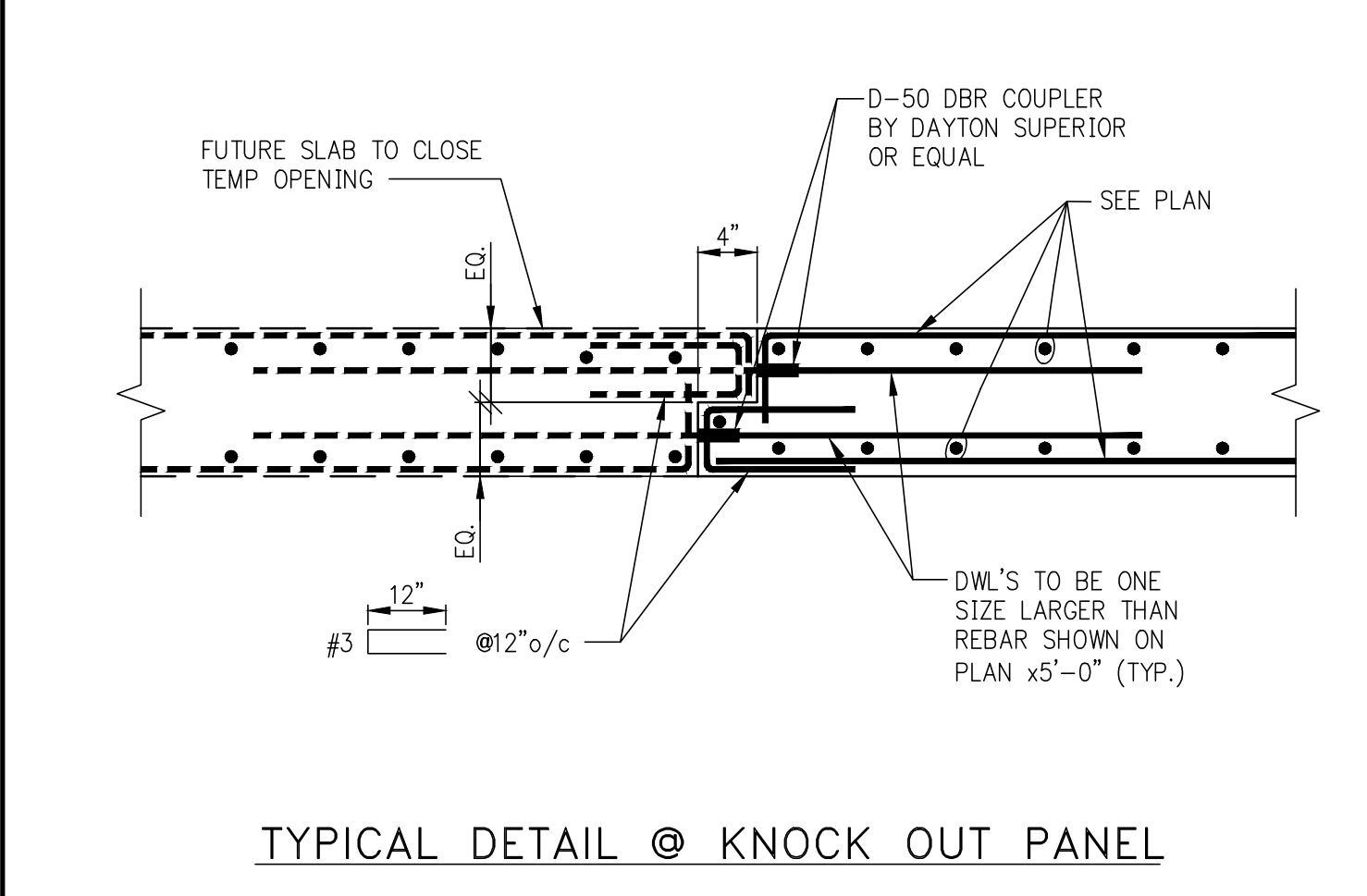
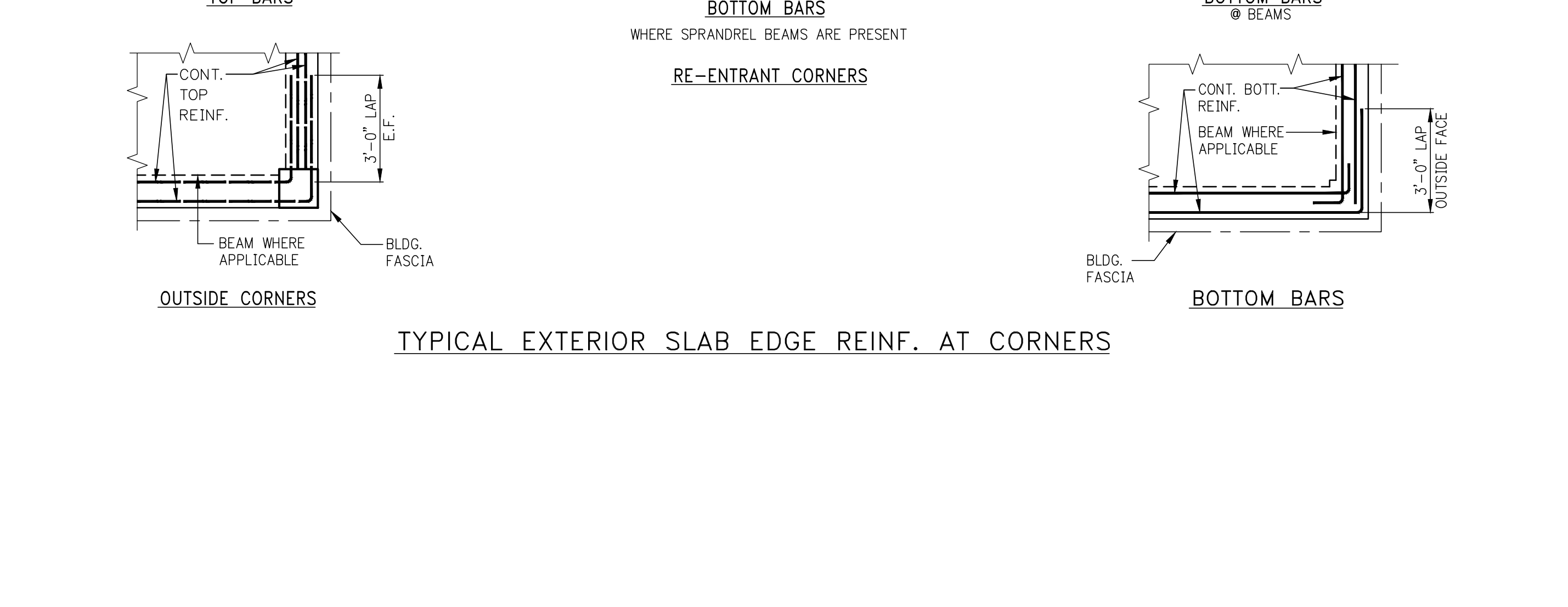
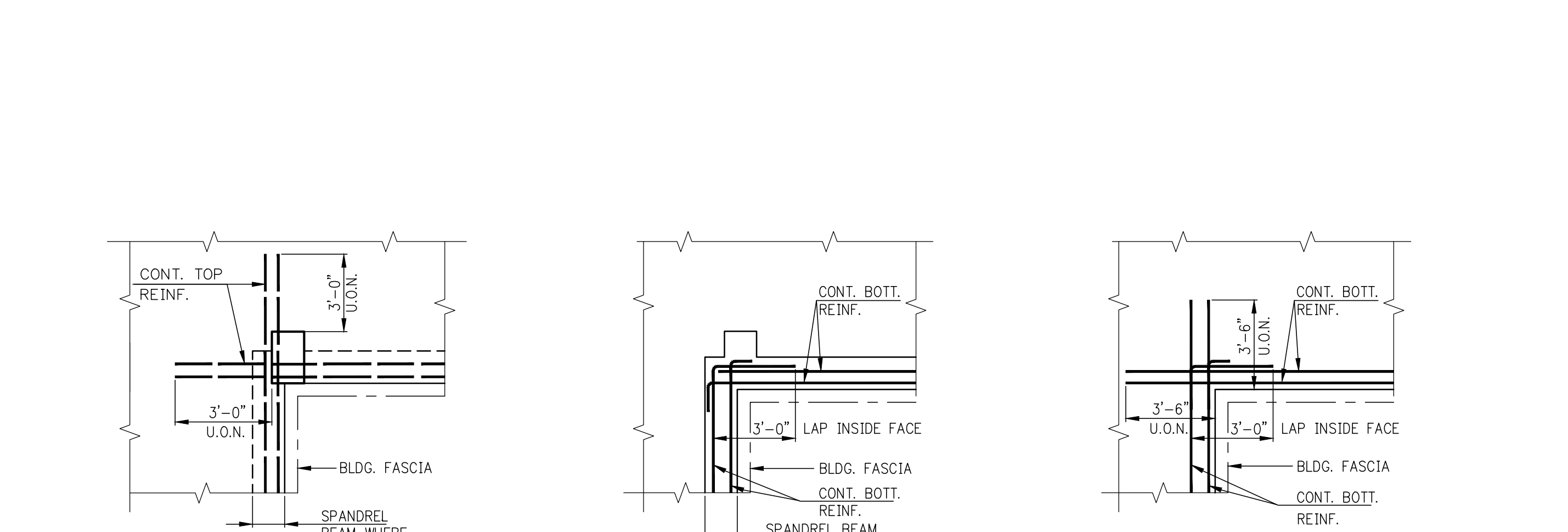
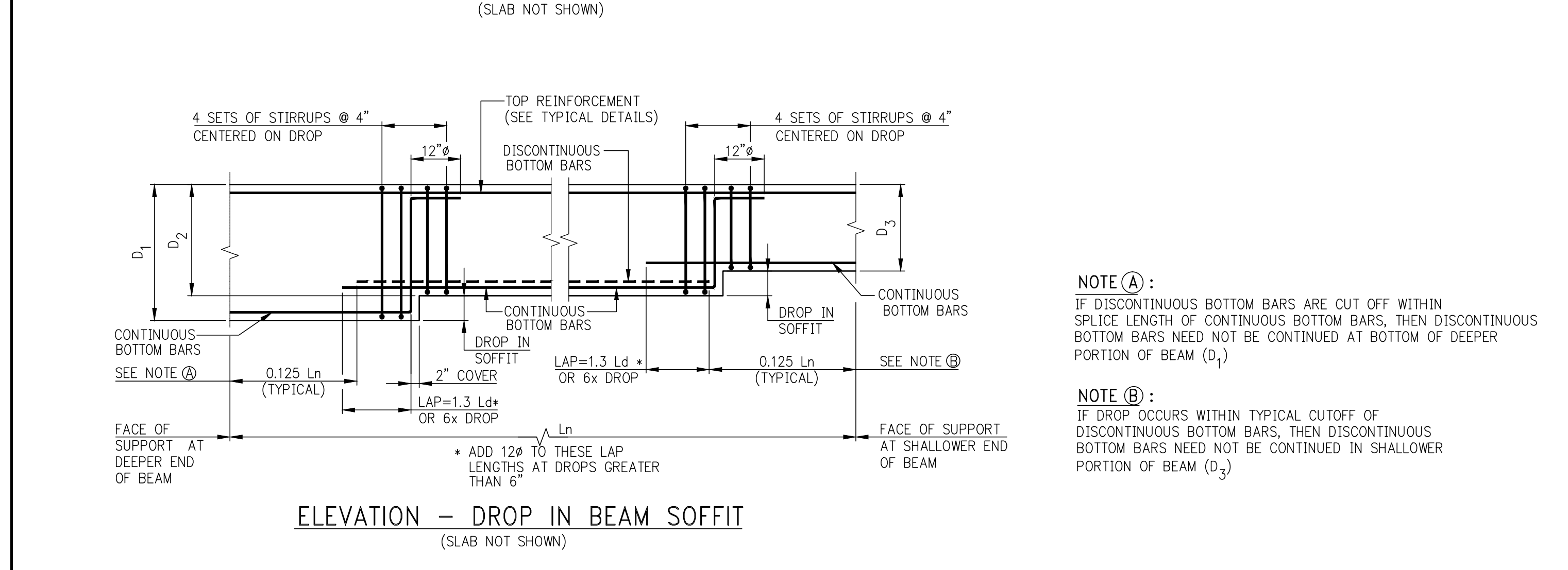
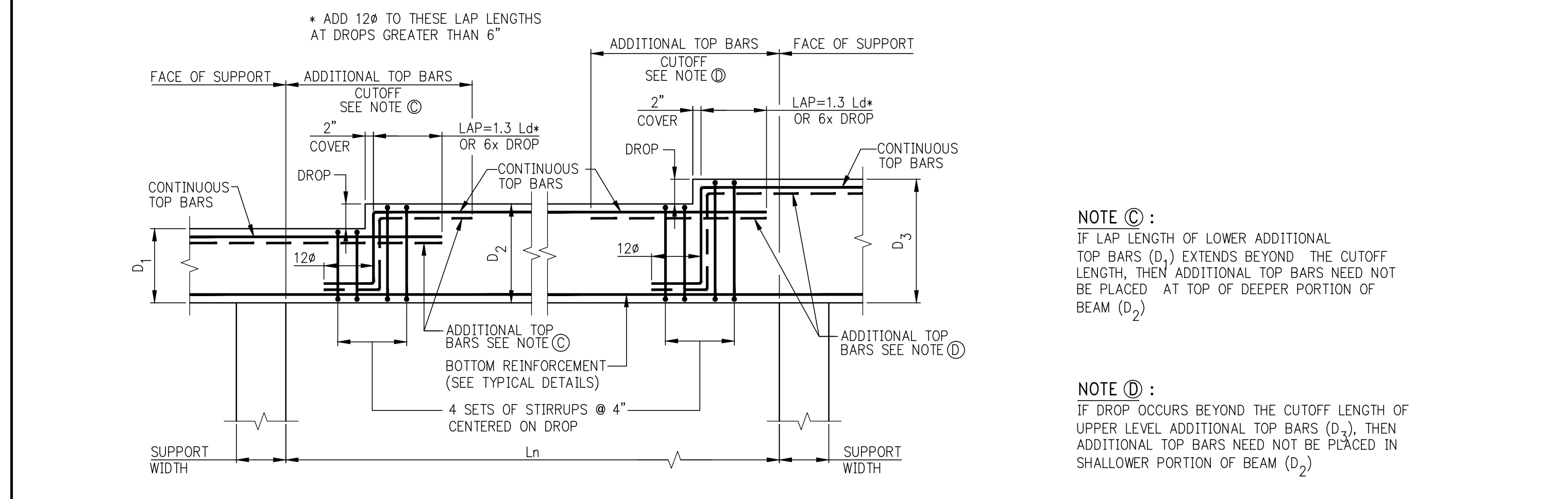
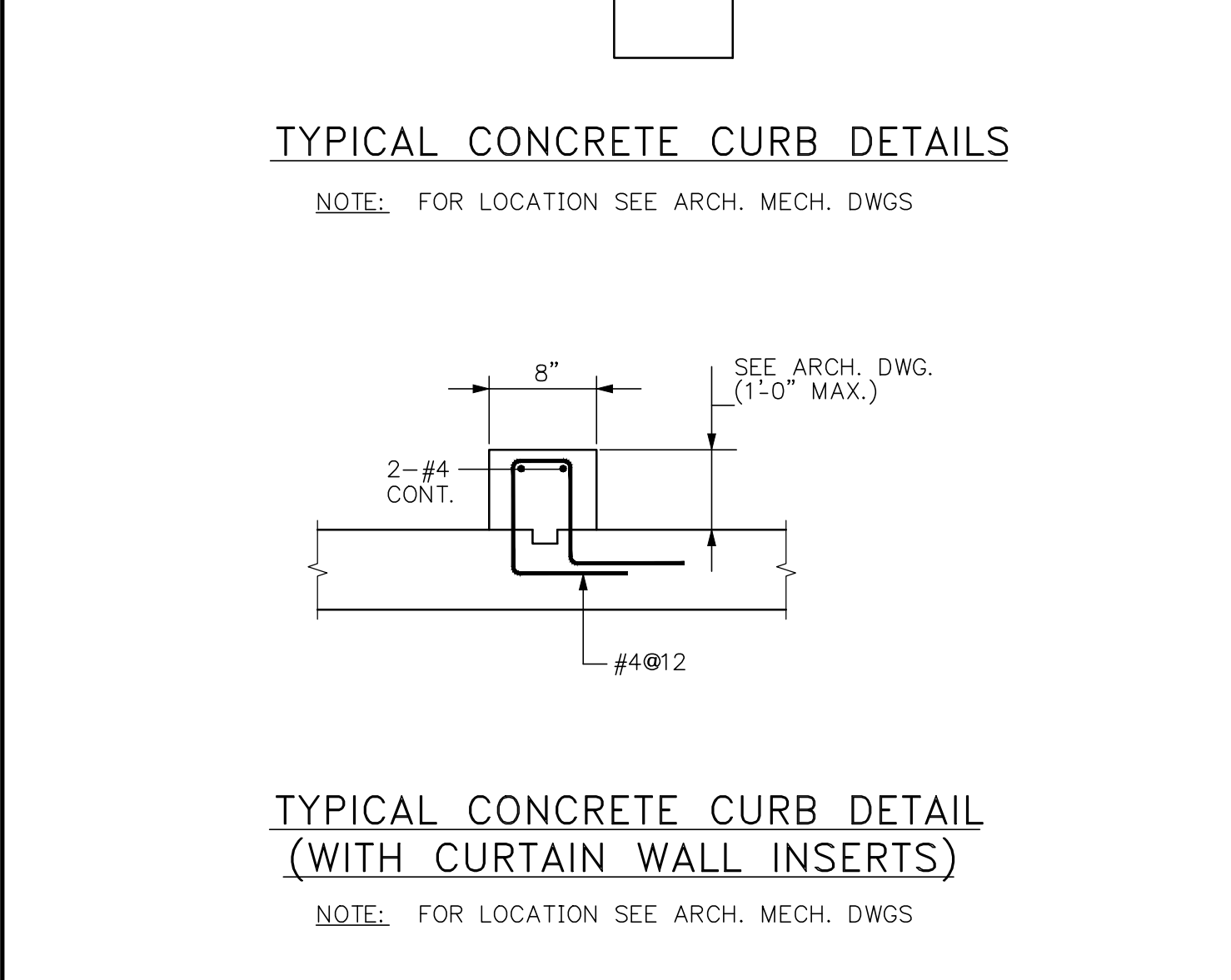
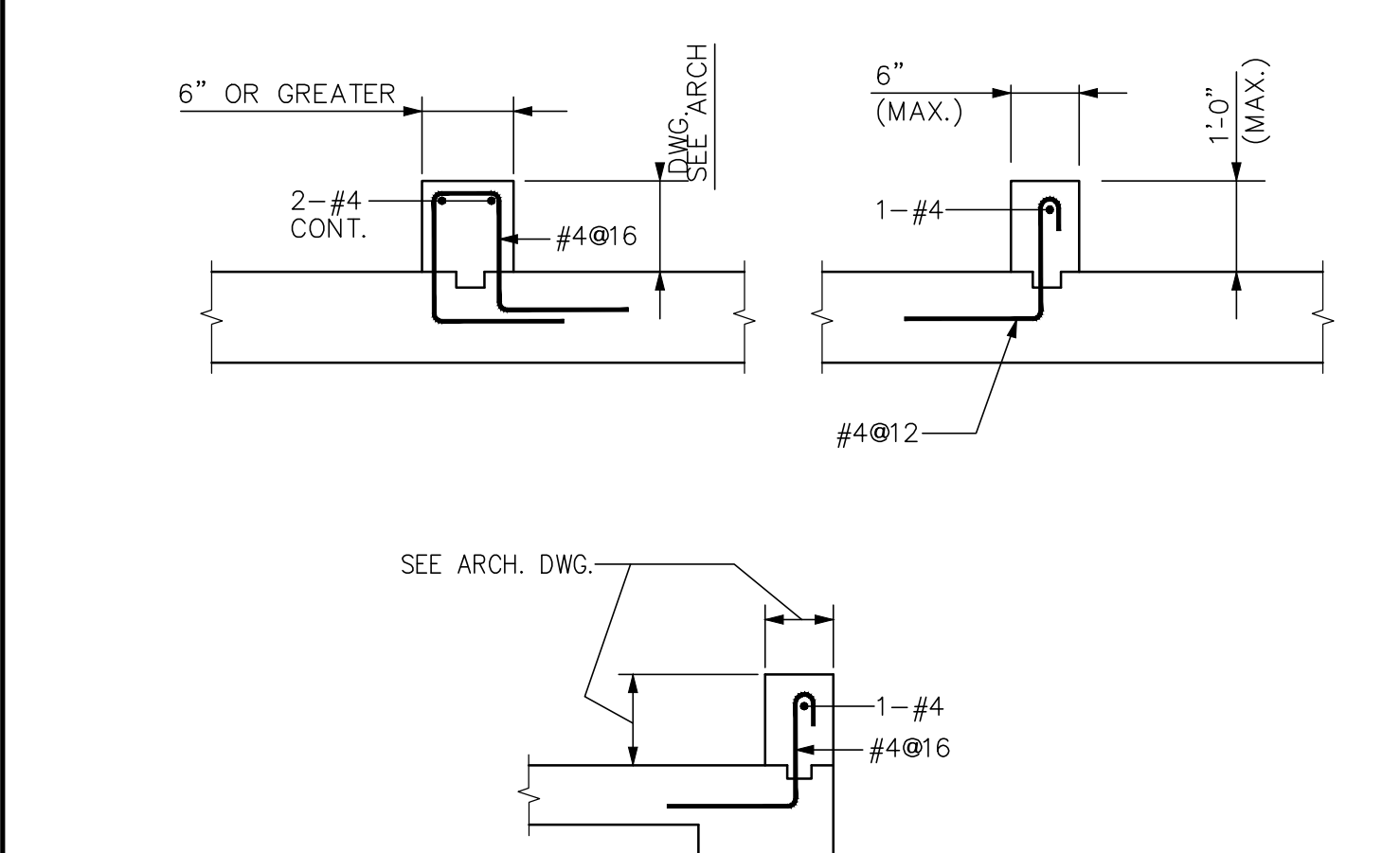
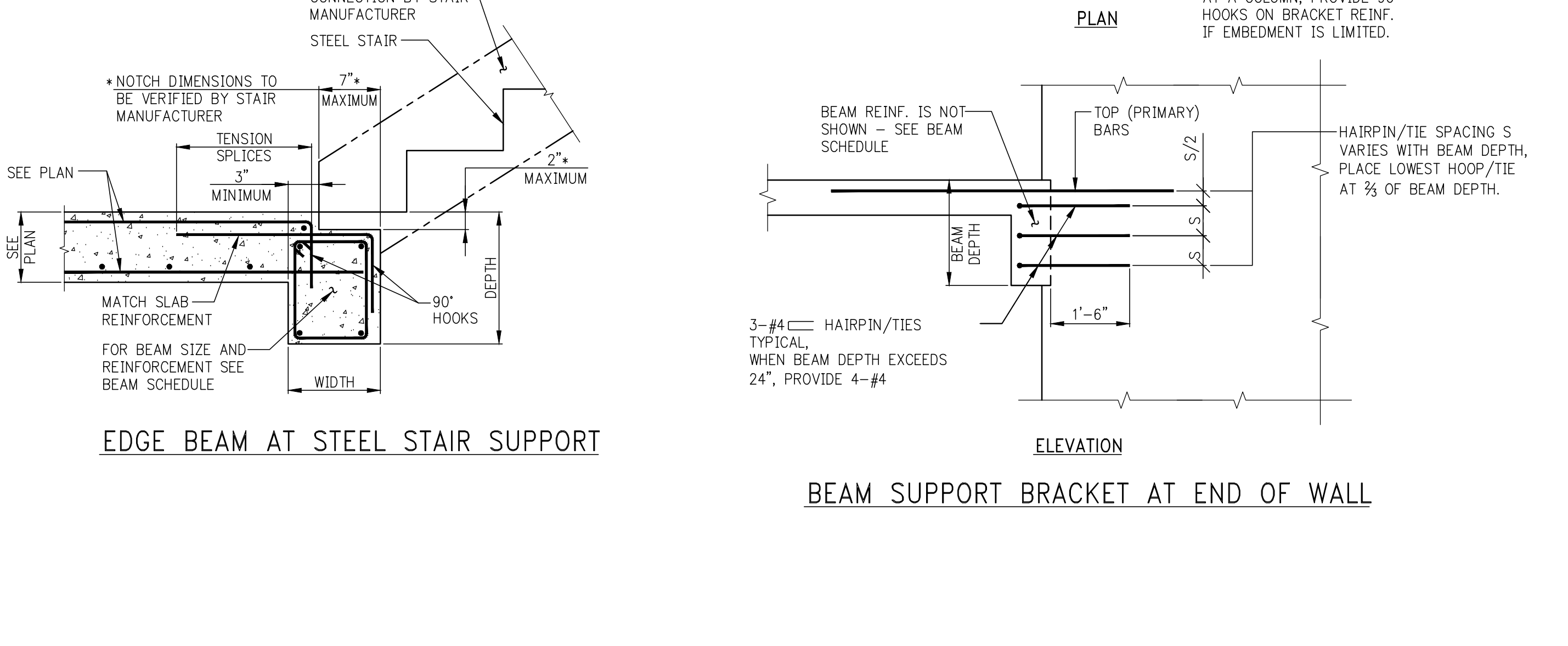
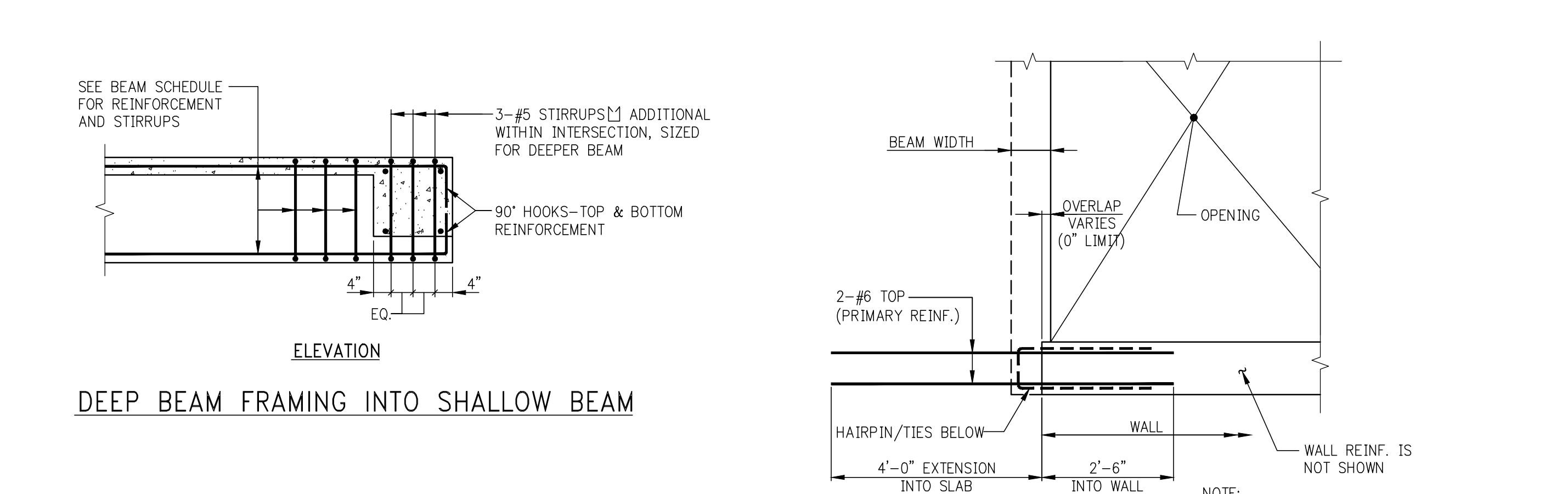
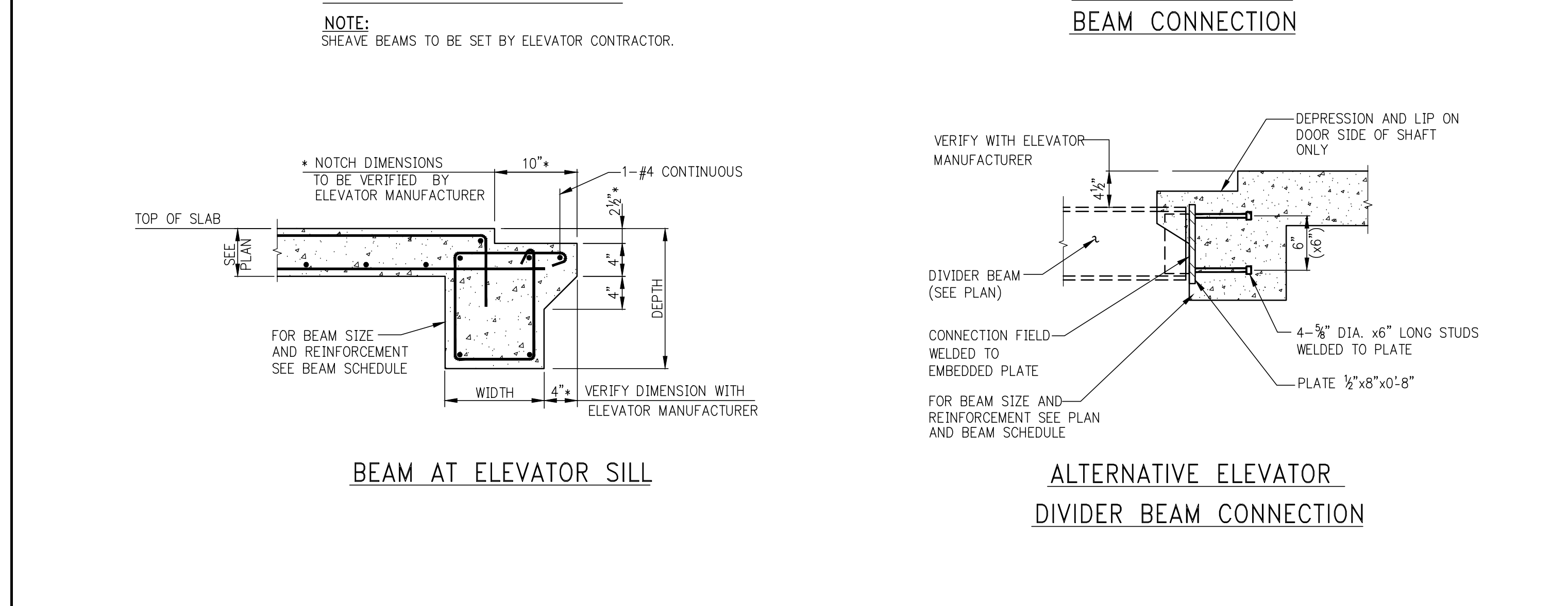
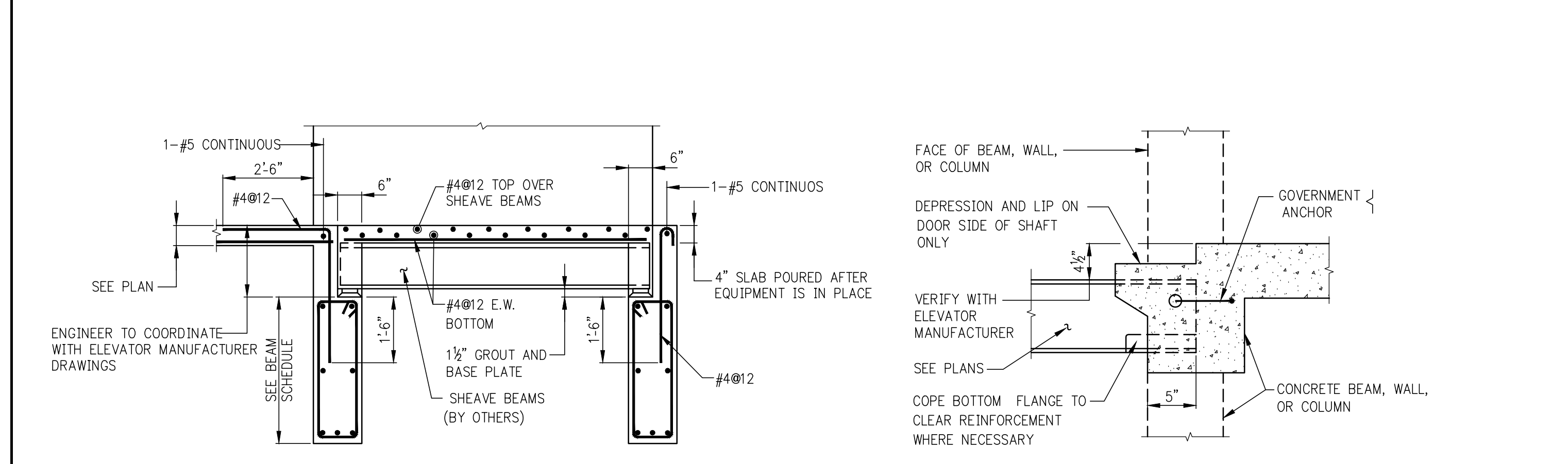
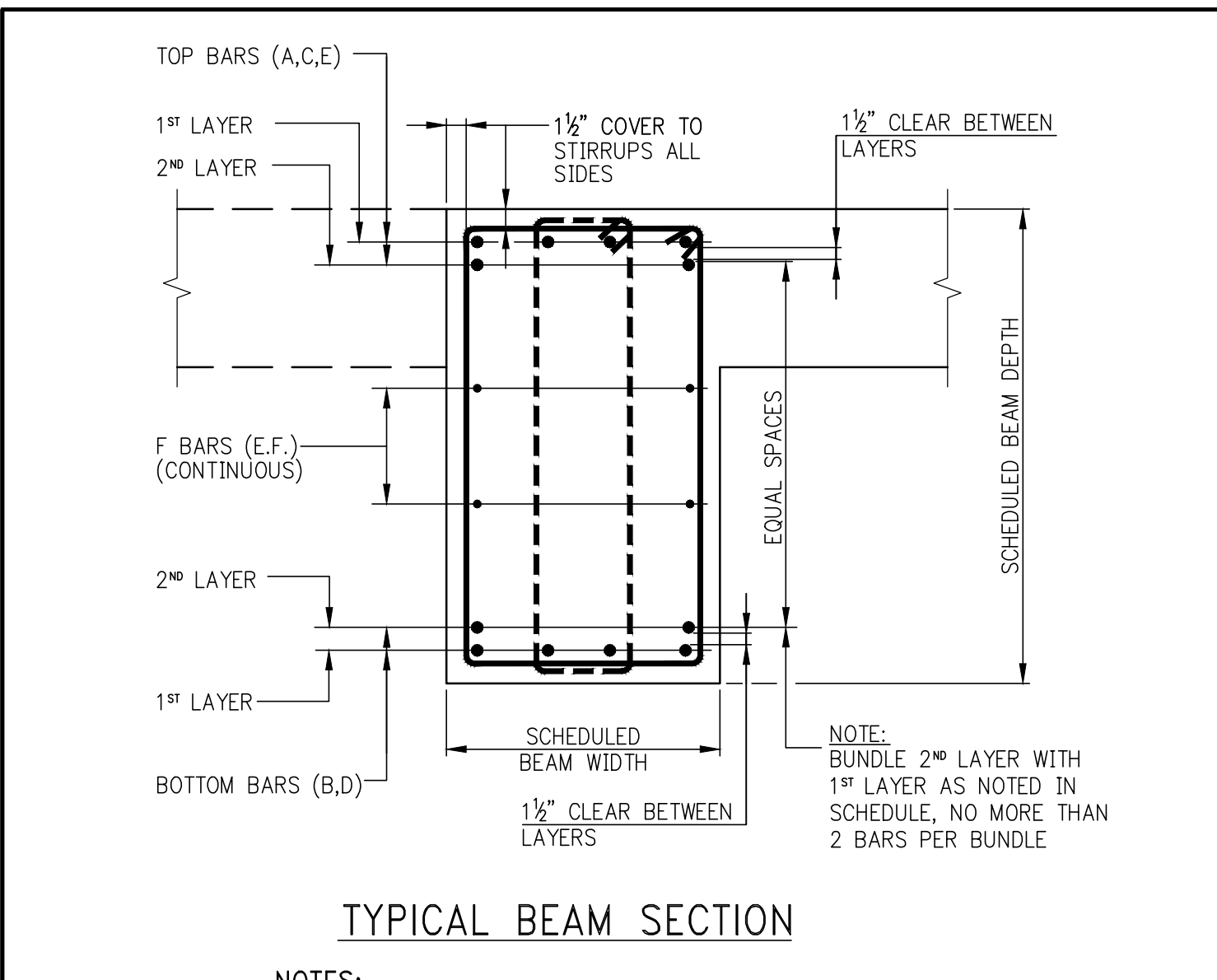
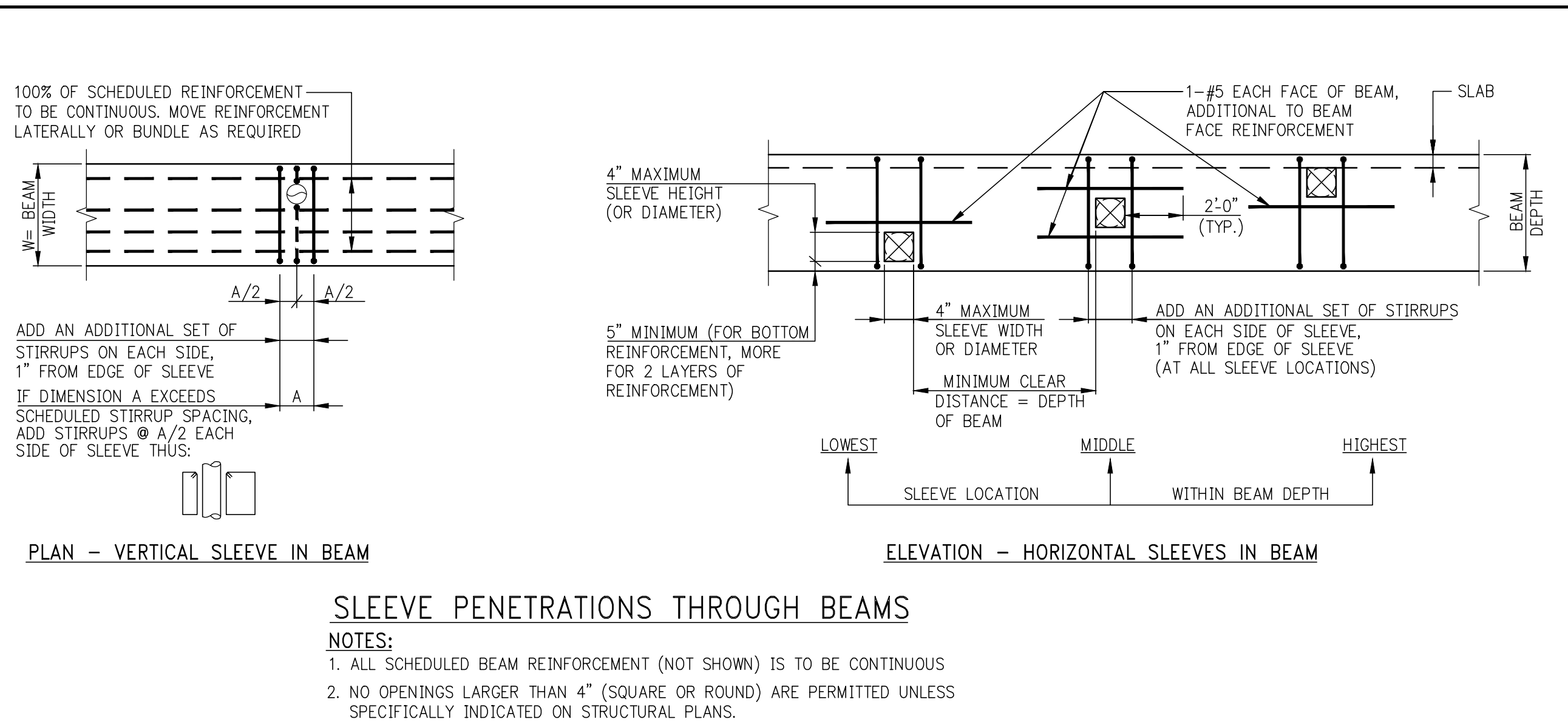
DOB EMPLOYEE STAMP:



MINIMUM SHEAR REINFORCEMENT FOR DEEP BEAMS ($D > L_n/4$)

b-BEAM WIDTH	MINIMUM STIRRUPS (A) (SPACING = S)	MINIMUM F BARS (A) (SPACING = S)
UP TO 12"	1-#4 @ 12" MAX.	#4 E.F. @ 12" MAX.
12" TO 24"	2-#4 @ 12" MAX.	#4 E.F. @ 12" MAX.
24" TO 36"	3-#4 OR 2-#5 @ 12" MAX.	#5 E.F. @ 12" MAX.
36" TO 42"	2-#5 @ 12" MAX.	#5 E.F. @ 12" MAX.
42" TO 48"	4-#4 OR 3-#5 @ 12" MAX.	#5 E.F. @ 12" MAX.
OVER 48"	DESIGNER TO PROVIDE	

* PER ACI 11.8.4 AND 11.8.5, SPACINGS S AND S2 SHALL NOT EXCEED D/5, NOR 12 INCHES.



DEPT OF BLDGS 21258205 Job Number: E83488881

KEY PLAN

PROJECT: 217 WEST 57TH STREET, NEW YORK, NY

DEVELOPER: EXTELL DEVELOPMENT COMPANY
805 THIRD AVENUE, 7TH FLOOR
New York, NY 10022 USA
TEL: 212 712 6000 FAX: 212 712 6100

DESIGN ARCHITECT: Base Building Shell & Core
ADRIAN SMITH + GORDON GILL ARCHITECTURE
111 WEST MONROE STREET SUITE 2300
CHICAGO IL 60603
TEL: 312 920 1888 FAX: 312 920 1775

INTERIOR DESIGNER: Residential
Rottet Architecture and Design Studio, PLLC
238 Fifth Ave, 7th Floor
New York, NY 10001
TEL: 646 998 7000 FAX: 646 998 7150

ARCHITECT OF RECORD: Base Building Shell, Core, & Residential
AAI ARCHITECTS, P.C.
401 Washington St., 3rd Floor
Toronto, ON M5V 1E7 Canada
TEL: 416 967 1500 FAX: 416 967 7150

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228 East 45th Street
New York, NY 10017 USA
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MEP ENGINEERS: AKF GROUP
1501 Broadway
New York, NY 10036 USA
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GEOTECHNICAL ENGINEERS: Langan Engineering & Environmental Services
21 Penn Plaza - 380 West 31st Street, 8th Floor
New York, NY 10001-2727
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CODE CONSULTANTS: Construction Consulting Associates
100 Church Street
New York, NY 10007
TEL: 212 385 1818 FAX: 212 385 1911

CURTAINWALL CONSULTANT: A.J.P. Consulting
40 Worth Street, Suite 805
New York, NY 10013
TEL: 212 757 8559 FAX: 646 219 8508

LANDMARK/PRESERVATION CONSULTANT: Jan Hird Pokorny Associates, Inc.
39 West 37th Street, 12A
New York, NY 10018
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No.	DESCRIPTION	DATE
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4	SUPERSTRUCTURE CONCRETE BID	06-02-2014
5	DESIGN DEVELOPMENT	07-01-2014
6	ISSUED FOR DESIGN DEVELOPMENT	07-31-2014
7	CD PROGRESS ISSUE 1	10-15-2014
8	ISSUED FOR CONSTRUCTION	11-07-2014
9	DOB SUBMISSION	12-19-2014
10	DOB SUBMISSION	02-05-2015

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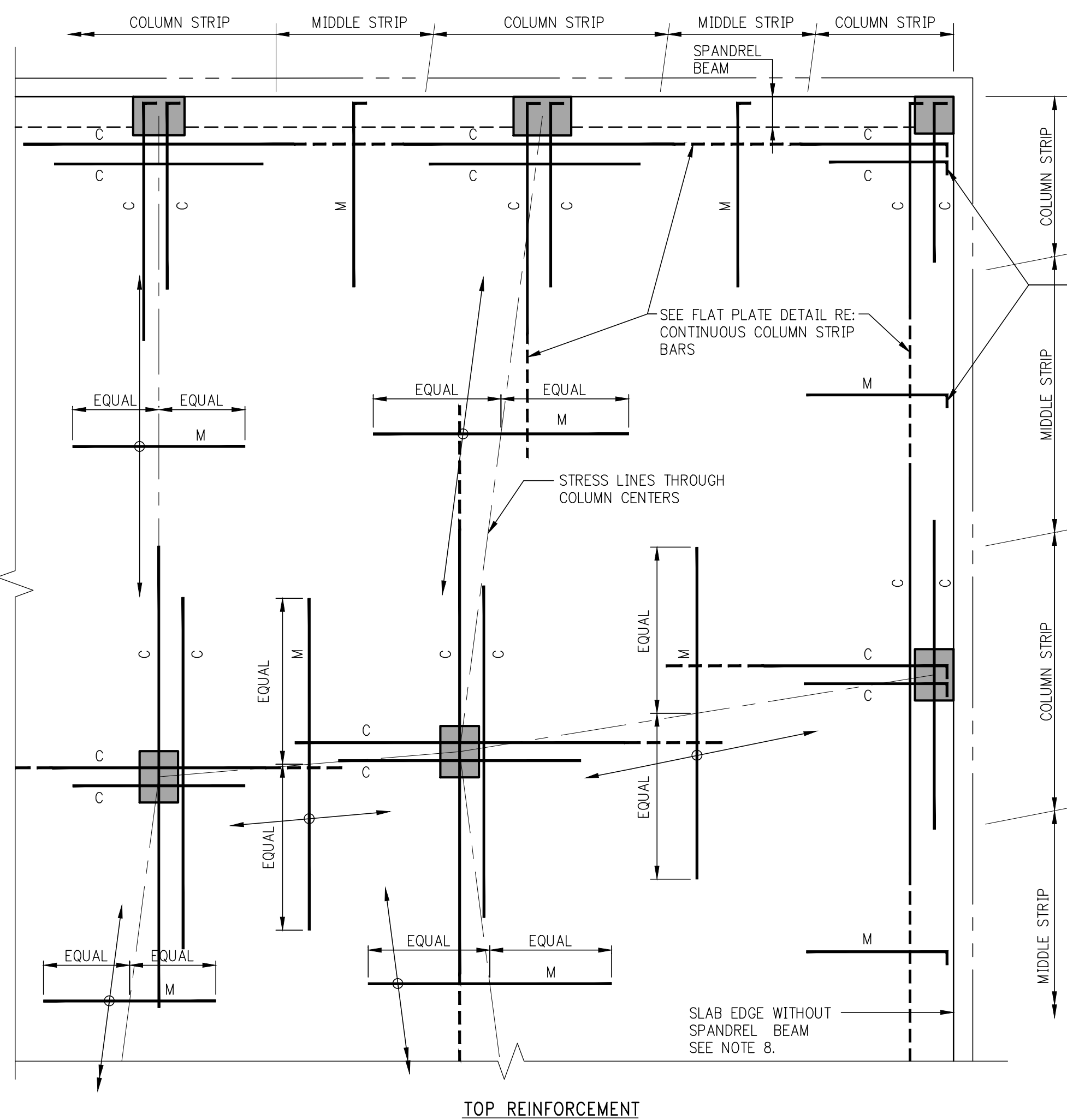
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PROJECT: 217 WEST 57TH STREET, NEW YORK, NY

DRAWING TITLE: TYPICAL CONCRETE DETAILS 1

SEAL & SIGNATURE: [Signature]
DATE: 03/31/14
PROJECT No: 2012186
DRAWN: CADD
CHK: Y.E.
SCALE: AS INDICATED
DWG No: FO-620.00
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DOB EMPLOYEE ID: of
DOB S-CAN:



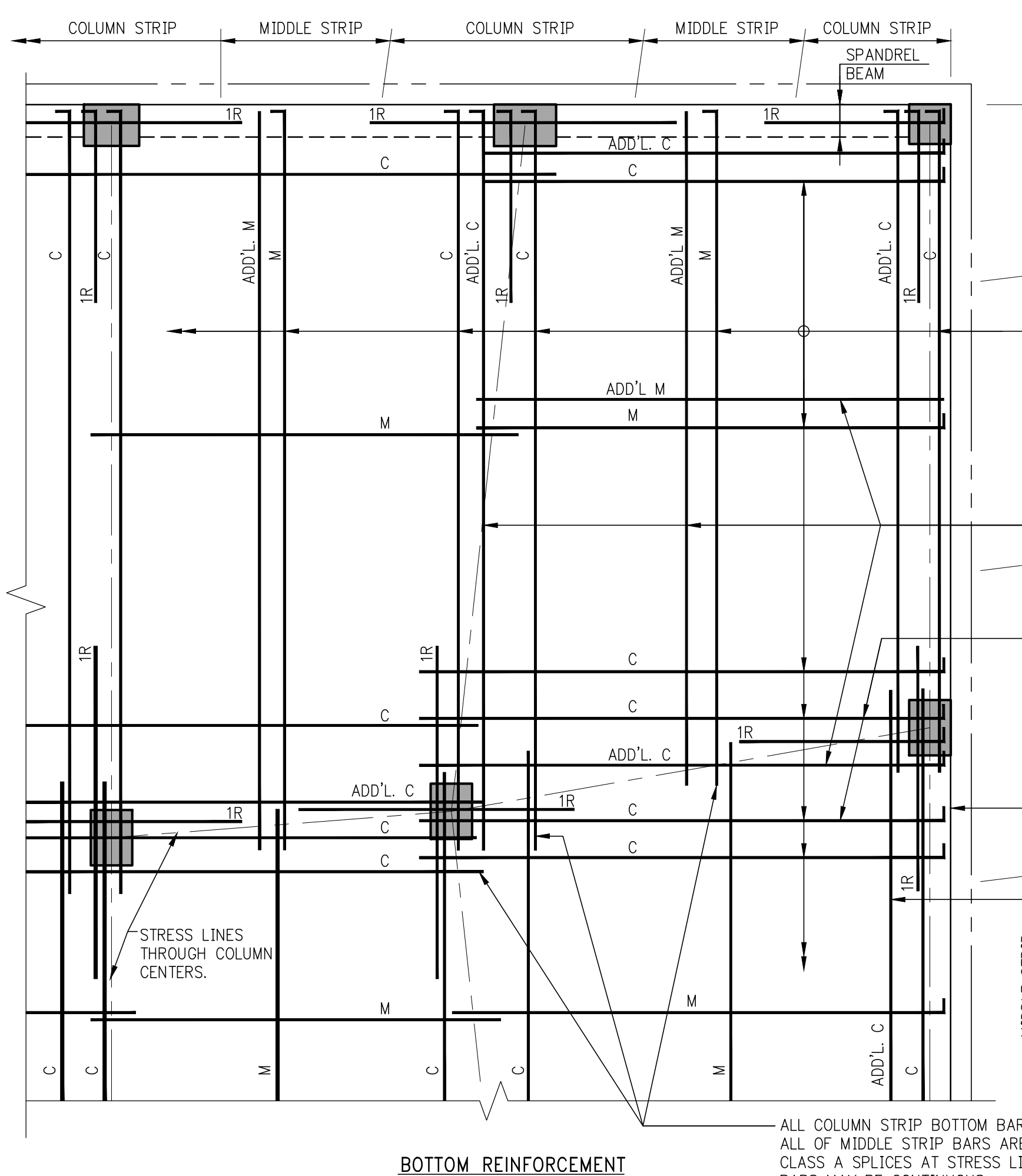
NOTES FOR TOP REINFORCEMENT

1. 'C' DENOTES COLUMN STRIP BARS (LONG AND SHORT BARS ARE ALTERNATED). 'M' DENOTES MIDDLE STRIP BARS.
2. FOR SIZE, SPACING, NUMBER, ETC. OF REINFORCING BARS, SEE FRAMING PLANS.
3. WHERE COLUMN STRIP BAR LENGTHS ARE SHOWN ON FRAMING PLANS THEY ARE FOR LONGER BARS, WHICH ARE TO BE ALTERNATED WITH SHORTER BARS. SEE TYPICAL FLAT PLATE DETAIL.
4. COLUMN STRIP BARS ARE TO BE CENTERED OVER COLUMNS UNLESS OTHERWISE INDICATED ON PLANS.
5. MIDDLE STRIP BARS ARE TO BE CENTERED OVER STRESS LINES UNLESS OTHERWISE INDICATED ON PLANS.
6. MIDDLE STRIP BARS ARE TO BE SPACED AS SHOWN ON PLANS. FIRST BAR IS TO BE LOCATED A DISTANCE FROM LAST COLUMN STRIP BAR NOT TO EXCEED MIDDLE STRIP BAR SPACING.
7. COLUMN STRIP BARS PARALLEL TO SPANDREL BEAMS ARE TO HAVE FIRST BAR LOCATED AT ONE-HALF SCHEDULED SPACING FROM INSIDE FACE OF BEAM, SIX INCHES MAXIMUM.
8. AT SLAB EDGES WITHOUT SPANDREL BEAMS, SEE TYPICAL DETAIL FOR ADDITIONAL CONTINUOUS EDGE BARS AND FOR COLUMN STRIP BAR PLACEMENT PARALLEL TO SLAB EDGE.
9. PROVIDE 90 DEGREE HOOK AT EVERY DISCONTINUOUS TOP BAR, COLUMN AND MIDDLE STRIPS, AT EDGE OF SLAB, WITH OR WITHOUT SPANDREL BEAMS (2" CLEAR COVER TO HOOK)

BAR LENGTH EXTENSIONS REQUIRED AT EPOXY COATED REINFORCEMENT (WHERE SPECIFIED ON PLANS)

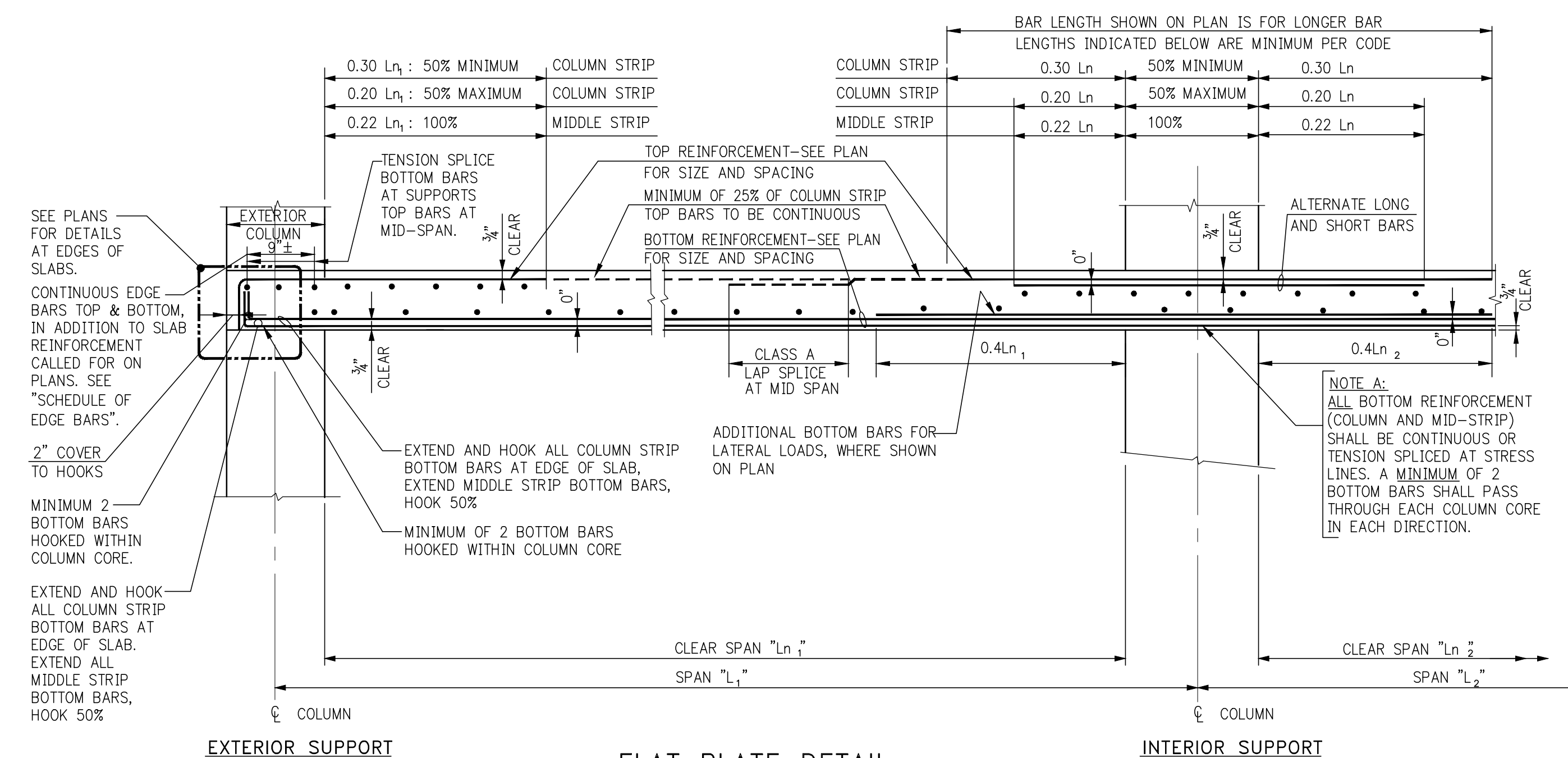
1. TO REINFORCING BAR LENGTHS SHOWN ON PLAN OR AS DETERMINED FROM TYPICAL DETAILS, ADD AN ADDITIONAL LENGTH AT EACH END (EXCEPT AT HOOKED BARS) EQUAL TO 50% OF BAR DEVELOPMENT LENGTH (SEE TABLE #2)
2. DEVELOPMENT LENGTHS AND LAP SPICE LENGTHS SHOWN ARE TO BE INCREASED, IN CONFORMANCE WITH TABLES #1 & 2 IN TYPICAL DETAILS FOR REINFORCEMENT DEVELOPMENT AND SPICE LENGTHS, OVER VALUES FOR UNCOATED BARS.

FLAT SLAB REINFORCEMENT DETAILS



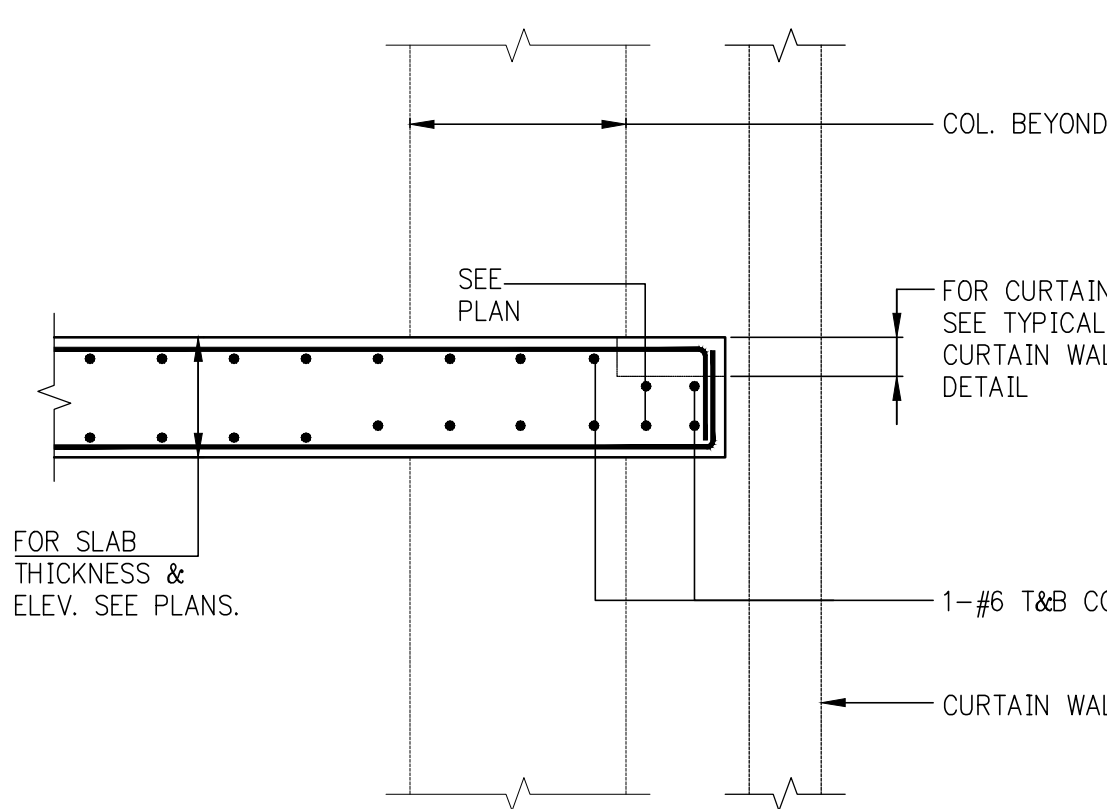
NOTES FOR BOTTOM REINFORCEMENT:

1. 'C' DENOTES A COLUMN STRIP BAR, PART OF MAIN GRID. 'ADD'L C' DENOTES COLUMN STRIP BARS ADDITIONAL TO MAIN GRID BARS. 'M' DENOTES A MIDDLE STRIP BAR, PART OF MAIN GRID. 'ADD'L M' DENOTES MIDDLE STRIP BARS ADDITIONAL TO MAIN GRID BARS.
2. PLACE ADDITIONAL BARS BETWEEN MAIN GRID BARS. IN COLUMN STRIPS GROUP ABOUT STRESS LINE. IN MIDDLE STRIPS DISTRIBUTE THROUGHOUT STRIP.
3. ALL COLUMN STRIP BOTTOM BARS ARE TO BE CONTINUOUS AND HOOKED 90° AT EDGES OF SLAB OR AT SLAB OPENINGS, OR AT OTHER DISCONTINUITIES.
4. ALL MIDDLE STRIP BOTTOM BARS ARE TO BE CONTINUOUS AND ARE TO EXTEND TO EDGE OF SLAB WHERE SOR OF BARS ARE TO BE HOOKED.
5. IN EDGE STRIP WITHOUT SPANDREL BEAMS, START ADDITIONAL BARS TWO INCHES FROM CONTINUOUS EDGE BARS - SEE FLAT PLATE DETAIL AT EDGE OF SLAB.
6. 'H' DENOTES HORIZONTAL STRUCTURAL INTEGRITY REINFORCEMENT. THE REINFORCEMENT SHALL BE PLACED INSIDE COLUMN CAGE AND SHALL BE EXTENDED ON ALL SIDES OF THE COLUMN INTO ADJACENT SLAB AT LEAST ONE-THIRD OF SPAN LENGTH WHERE REINFORCEMENT CANNOT BE EXTENDED BEYOND THE COLUMN-IT SHALL BE HOOKED.

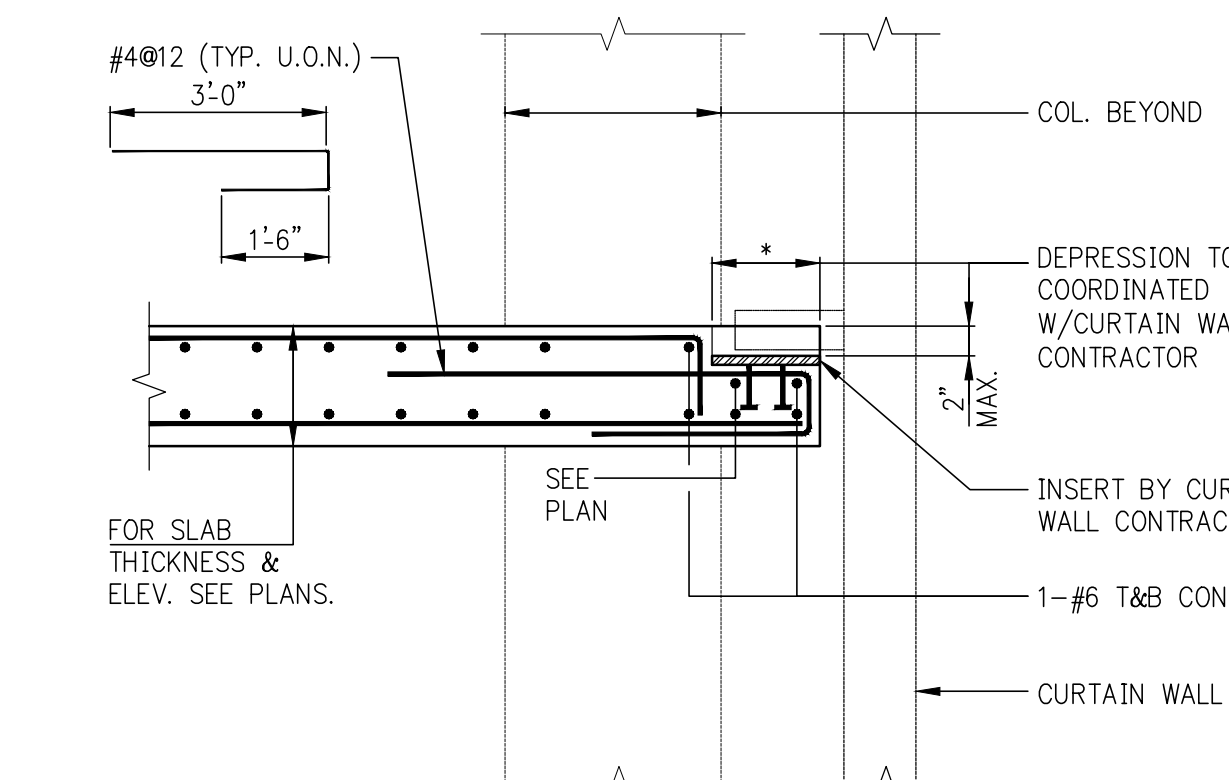


FLAT PLATE DETAIL

(FOR DROP PANEL SEE DETAIL) AT INTERIOR SUPPORTS USE LARGER OF L_1 OR L_2 FOR L_n



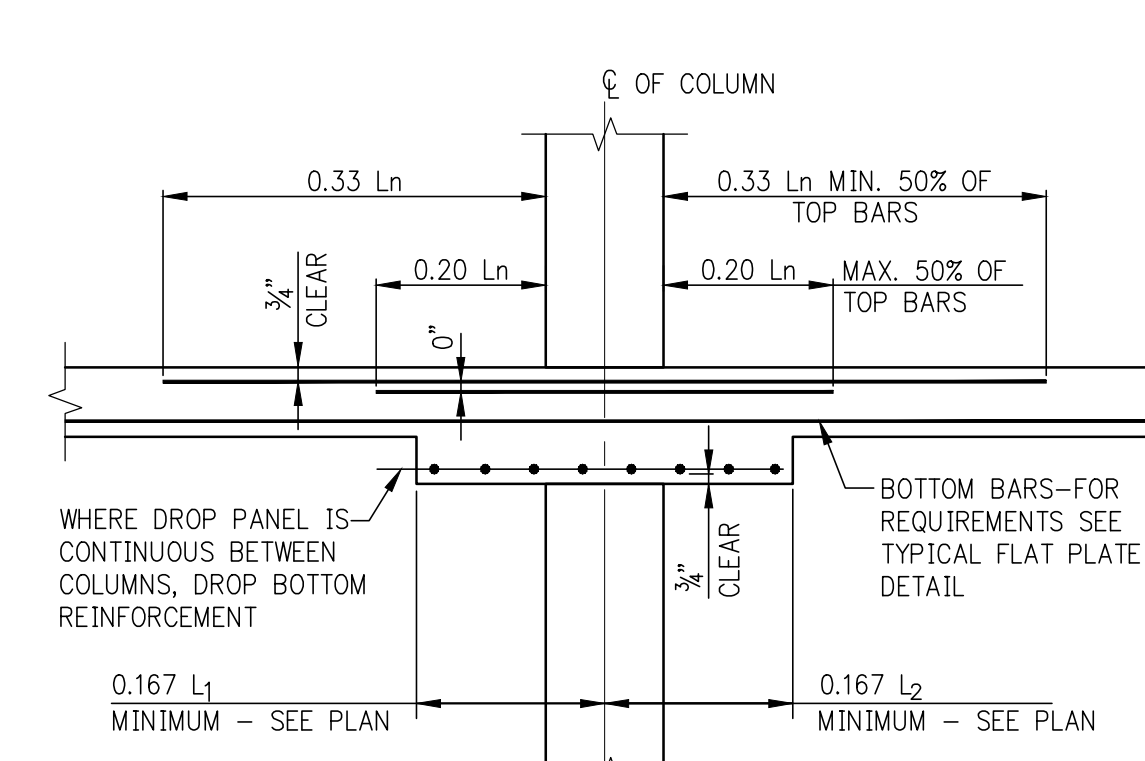
TYPICAL SPANDREL @ EDGE OF SLAB



TYPICAL SPANDREL @ CURTAIN WALL SUPPORT

(AT EDGE OF SLAB W/O BEAM)

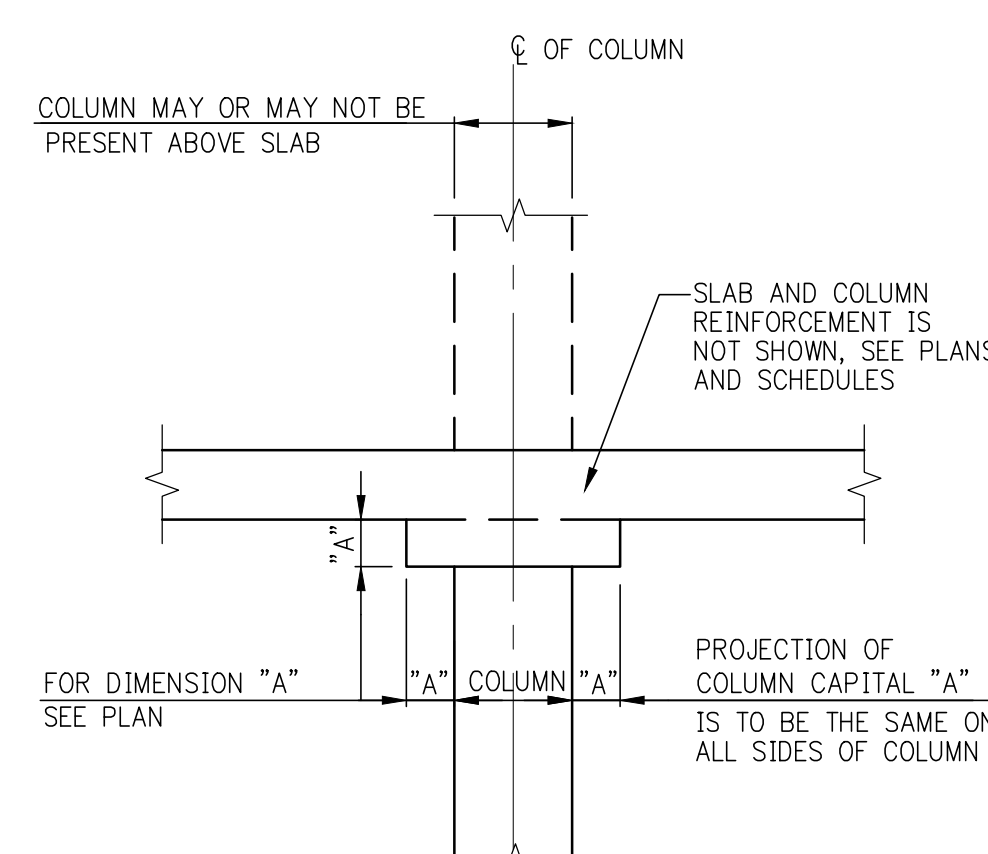
NOTE: THIS CONNECTION IS APPLICABLE BETWEEN COLUMNS. CONNECTION MUST BE CHECK BY E.O.R AT ALL COLUMN LOCATION.



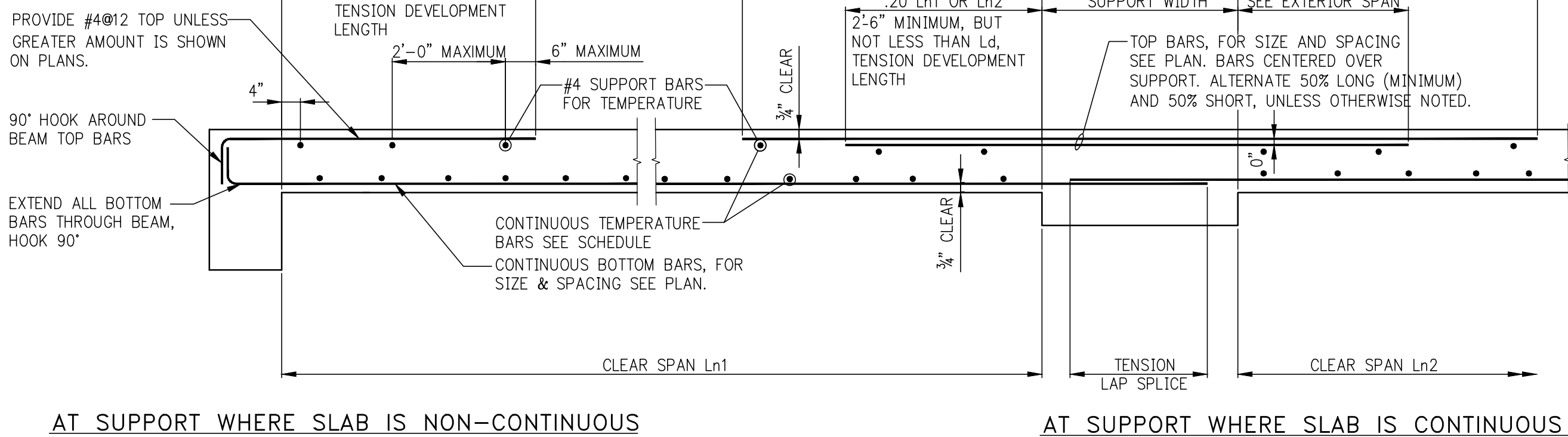
FLAT SLAB WITH DROP PANELS

AT COLUMN STRIP

(MID-STRIP BARS SAME AS TYPICAL FLAT PLATE DETAIL)



COLUMN WITH CAPITAL

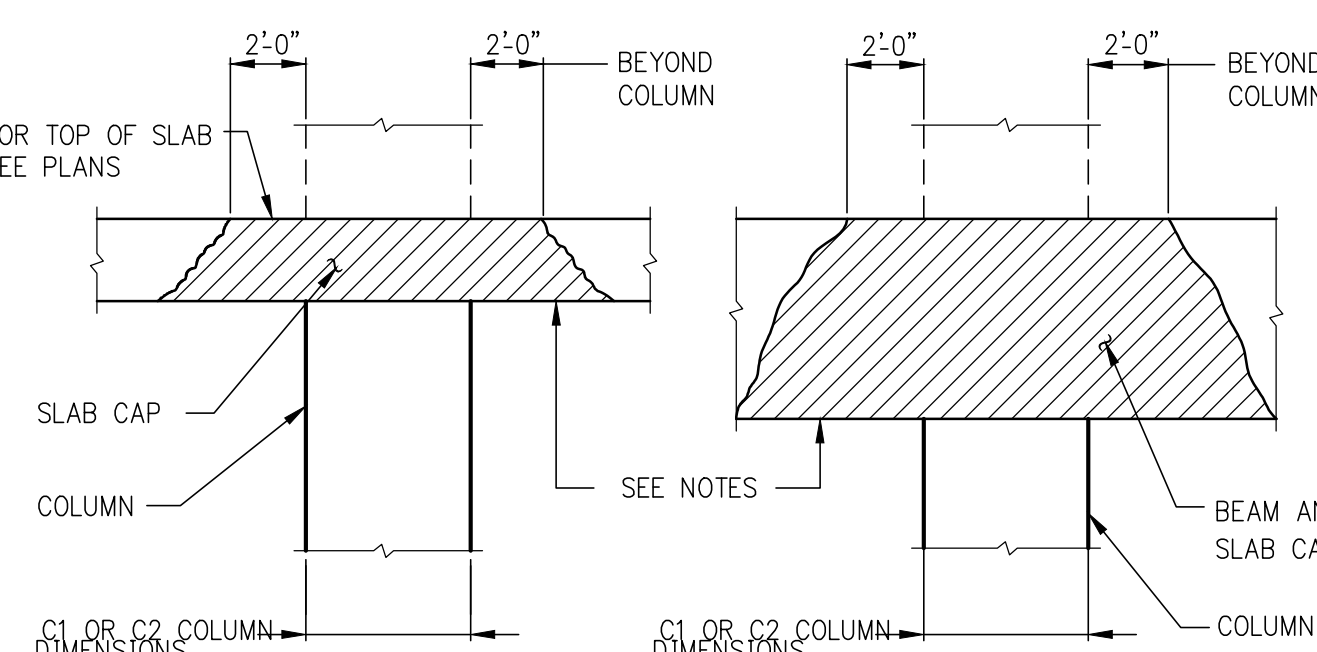


AT SUPPORT WHERE SLAB IS NON-CONTINUOUS

AT SUPPORT WHERE SLAB IS CONTINUOUS

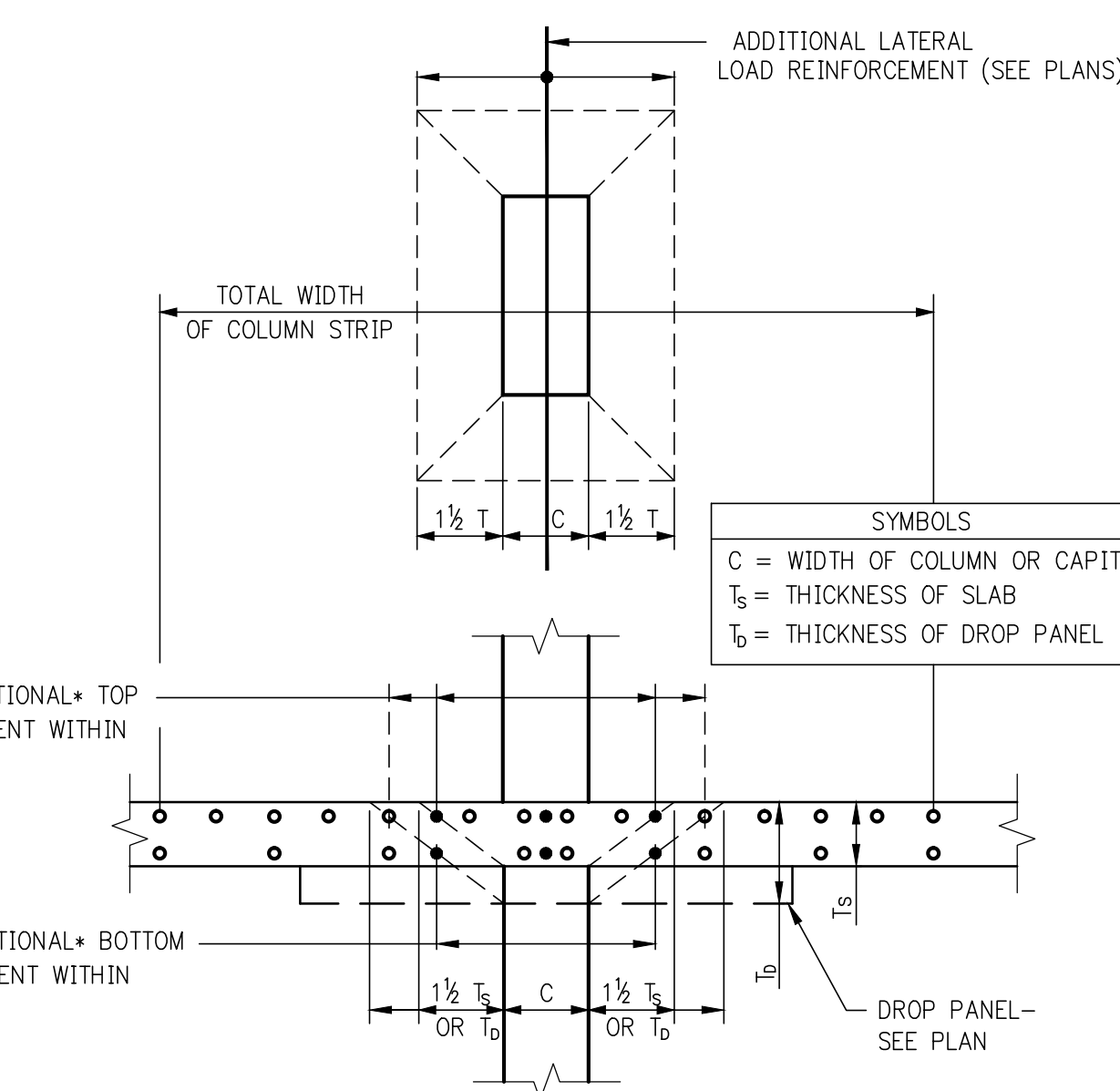
ONE WAY CONCRETE SLAB

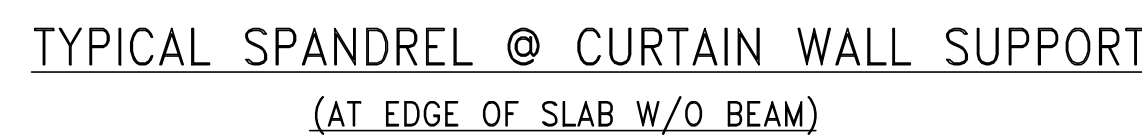
MINIMUM TEMPERATURE REINFORCEMENT (BOTTOM) ONE WAY SLABS	
SLAB THICKNESS	MIN. TEMPERATURE REINFORCEMENT
UP TO 6"	#4@18
6" + TO 7"	#4@16
7" + TO 8"	#4@14
8" + TO 9"	#4@12
9" + TO 10"	#4@10 OR #5@15
10" + TO 12"	#4@9 OR #5@14
12" + TO 14"	#4@8 OR #5@12
14" + TO 16"	#5@8
OVER 16"	BY DESIGNER



BEAM AND SLAB CONCRETE PLACEMENT AT HIGH STRENGTH CONCRETE COLUMN OR WALL

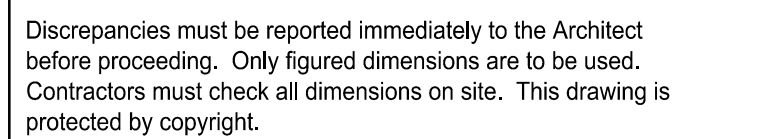
- NOTES:
1. IN CONFORMANCE WITH 10.13 OF ACI 318-89 (10.15 IN 2002 CODE), USE THIS DETAIL WHEN THE SPECIFIED CONCRETE STRENGTH IN COLUMN/WALL IS GREATER THAN 1.4 TIMES THAT SPECIFIED FOR THE FLOOR SYSTEM.
 2. CAP SHALL BE NORMAL-WEIGHT STONE CONCRETE, EQUAL IN STRENGTH TO THAT SPECIFIED FOR THE COLUMN/WALL. CAP SHALL EXTEND BEYOND COLUMN/WALL IN ALL DIRECTIONS AS SHOWN ABOVE.
 3. CAP CONCRETE SHALL NOT BE PLACED OVER THE COLUMN/WALL UNTIL COLUMN/WALL CONCRETE IS NO LONGER PLASTIC, BUT IN NO CASE LESS THAN TWO HOURS AFTER COLUMN/WALL CONCRETE PLACEMENT HAS BEEN COMPLETED.
 4. THE BALANCE OF CONCRETE IN SLAB AND BEAMS SHALL BE PLACED WHILE CAP CONCRETE IS STILL IN A WORKABLE PLASTIC CONDITION, BEFORE INITIAL SET. RETEMPERING OF CONCRETE WILL NOT BE PERMITTED.
 5. IN LIEU OF PLACING TWO DIFFERENT STRENGTHS OF CONCRETE WITHIN THE SAME FLOOR SYSTEM, THE CONTRACTOR MAY ELECT (AT NO ADDITIONAL COST TO THE OWNER) TO PLACE ONE STRENGTH THROUGHOUT THE ENTIRE FLOOR. THE MINIMUM FLOOR CONCRETE STRENGTH REQUIRED BY ACI CODE WOULD BE 0.72 TIMES THE SPECIFIED STRENGTH OF CONCRETE IN THE COLUMNS/WALLS, UP TO 10,000 PSI COLUMN/WALL CONCRETE.
 6. WHEN COLUMN/WALL CONCRETE STRENGTH EXCEEDS 10,000 PSI, THE CAP DETAILS SHOWN ABOVE MUST BE FOLLOWED, USING CAPS OF SAME CONCRETE STRENGTH AS IN COLUMNS/WALLS, AND THE STRENGTH SPECIFIED ON THE DRAWINGS FOR THE BALANCE OF THE FLOOR SYSTEM.





NOTE:

1. THIS CONNECTION IS APPLICABLE BETWEEN COLUMNS
2. CONNECTION MUST BE CHECKED BY E.O.R AT ALL COLUMN LOCATIONS



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CONSULTANT:

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PROJECT:

217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:

TYPICAL
CONCRETE DETAILS 4


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	PROJECT No: 2012185	
	DRAWN: CADD	REV:
	CHK: Y.E.	4
	SCALE: AS INDICATED	
	DWG No: FO-623.00	
DOB EMPLOYEE STAMP:	DOB PAGE No: of	DOB B-SCAN:

TABLE #1: TENSION LAP SPLICE LENGTHS (CLASS B MINIMUM)												
TABLE 1.A: 3/4" COVER TO OUTER LAYER BARS OUTER LAYER LAP LENGTHS (IN INCHES)						TABLE 1.C: 1 1/4" COVER TO OUTER LAYER BARS OUTER LAYER LAP LENGTHS (IN INCHES)						
NOTE: USE TABLE 1.A IF BAR SPACING IS LESS THAN 4" O/C UP TO #8, 5" O/C FOR #9, #10, #11						NOTE: USE TABLE 1.A IF BAR SPACING IS LESS THAN 4" O/C UP TO #8, 5" O/C FOR #9, #10, #11						
#3	16	16	16	16	16	#3	16	16	16	16	16	16
#4	21	20	20	20	20	#4	20	20	20	20	20	20
#5	31	27	24	24	24	#5	24	24	24	24	24	24
#6	43	37	33	30	29	#6	29	29	29	29	29	29
#7	69	60	53	49	45	#7	42	37	34	34	34	34
#8	85	74	66	60	56	#8	53	46	41	39	39	39
#9	103	89	80	73	67	#9	66	57	51	46	44	44
#10	121	105	94	86	79	#10	79	68	61	56	51	49
#11	140	122	109	99	92	#11	92	80	72	65	60	57

TABLE 1.B: 3/4" COVER TO OUTER LAYER BARS INNER LAYER LAP LENGTHS (IN INCHES)												
NOTE: USE TABLE 1.A IF BAR SPACING IS LESS THAN 4" O/C UP TO #8, 5" O/C FOR #9, #10, #11												
#3	16	16	16	16	16	16	16	16	16	16	16	16
#4	20	20	20	20	20	20	20	20	20	20	20	20
#5	24	24	24	24	24	24	24	24	24	24	24	24
#6	30	29	29	29	29	29	29	29	29	29	29	29
#7	46	42	38	34	34	34	34	34	34	34	34	34
#8	61	53	47	43	40	39	39	39	39	39	39	39
#9	75	65	58	53	49	46	44	44	44	44	44	44
#10	89	77	69	63	58	55	51	49	49	49	49	49
#11	104	90	81	74	68	64	60	57	54	54	54	54

TABLE 1.D: 1 1/2" COVER TO OUTER LAYER BARS INNER LAYER LAP LENGTHS (IN INCHES)												
NOTE: USE TABLE 1.A IF BAR SPACING IS LESS THAN 5" O/C UP TO #8, 6" O/C FOR #9, #10, #11												
#3	16	16	16	16	16	16	16	16	16	16	16	16
#4	20	20	20	20	20	20	20	20	20	20	20	20
#5	24	24	24	24	24	24	24	24	24	24	24	24
#6	30	29	29	29	29	29	29	29	29	29	29	29
#7	46	42	38	34	34	34	34	34	34	34	34	34
#8	61	53	47	43	40	39	39	39	39	39	39	39
#9	75	65	58	53	49	46	44	44	44	44	44	44
#10	89	77	69	63	58	55	51	49	49	49	49	49
#11	104	90	81	74	68	64	60	57	54	54	54	54

NOTES FOR TENSION LAP SPLICES

- REINFORCEMENT IS UNCOATED, WITH $F_y=60,000$ PSI.
- CONCRETE IS NORMAL WEIGHT (144-150#/C.F.).
- "TOP" REINFORCEMENT:
 - WHERE HORIZONTAL REINFORCEMENT IS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE SPLICE, TABULATED LENGTHS MUST BE MULTIPLIED BY 1.3.
 - SUCH LOCATIONS INCLUDE, BUT ARE NOT LIMITED TO, BEAMS, SLABS, FOOTINGS, MATS, AND WALLS.
 - WALL HORIZONTAL REINFORCEMENT INCLUDE BARS EACH FACE, ADDED BARS, CORNER BARS, "U" BARS, ETC.
 - "FRESH" CONCRETE INCLUDES ALL CONCRETE CAST BELOW "TOP" REINFORCEMENT WITHIN PERIOD OF TWO HOURS.
- TABULATED LENGTHS MUST BE MULTIPLIED BY THE FOLLOWING MODIFICATION FACTORS:
 - LIGHTWEIGHT CONCRETE1.3
 - EPOXY-COATED BARS:
 - BARS WITH COVER $< 3d_b$ OR WITH CLEAR SPACING $< 6d_b$ 1.5
 - ALL OTHER CONDITIONS1.2
 - FOR EPOXY-COATED "TOP" BARS THE MAXIMUM FOR COMBINED FACTORS = 1.7
- WHERE TENSION DEVELOPMENT LENGTH (L_d) IS REQUIRED ON PLANS OR IN DETAILS, SEE TENSION DEVELOPMENT LENGTH TABLES.
- CLASS A LAP SPLICE LENGTHS (AS DEFINED BY ACI) ARE EQUAL TO TENSION DEVELOPMENT LENGTHS. SEE TABLES FOR TENSION DEVELOPMENT LENGTHS (L_d). APPLY APPROPRIATE MODIFICATION FACTORS TO CLASS A SPLICE LENGTHS.

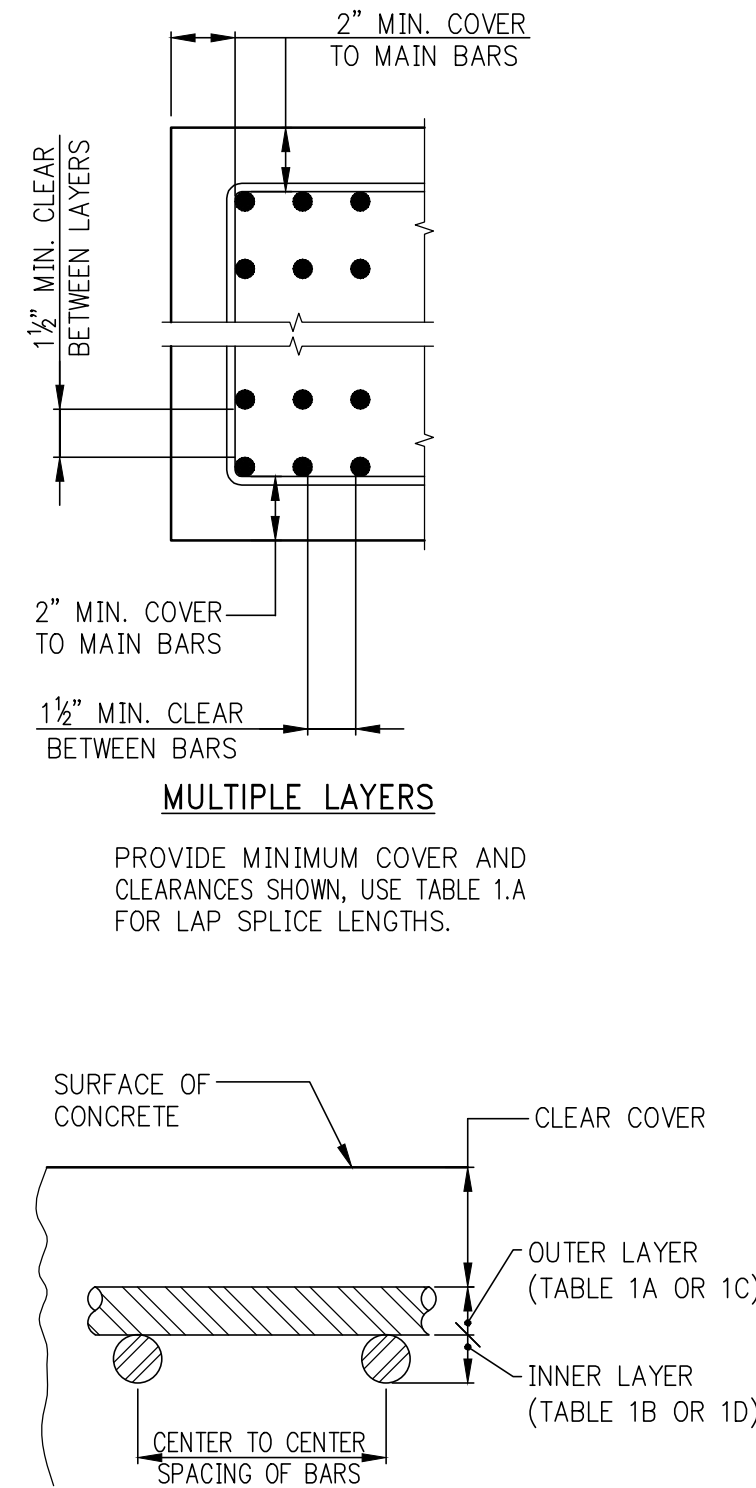


TABLE #2: TENSION DEVELOPMENT LENGTHS (L_d) (IN INCHES)												
TABLE 2.A: 3/4" COVER TO OUTER LAYER BARS OUTER LAYER DEVELOPMENT LENGTHS						TABLE 2.C: 1 1/4" COVER TO OUTER LAYER BARS OUTER LAYER DEVELOPMENT LENGTHS						
NOTE: USE TABLE 2.A IF BAR SPACING IS LESS THAN 4" O.C. UP TO #8, 5" O.C. FOR #9, #10, #11						NOTE: USE TABLE 2.A IF BAR SPACING IS LESS THAN 4" O.C. UP TO #8, 5" O.C. FOR #9, #10, #11						
#3	12	12	12	12	12	#3	12	12	12	12	12	12
#4	16	14	13	12	12	#4	13	12	12	12	12	12
#5	24	21	19	17	16	#5	16	14	13	13	13	13
#6	33	28	25	23	22	#6	20	17	15	15	15	15
#7	53	46	41	37	35	#7	32	28	25	23	21	20
#8	66	57	51	46	43	#8	41	36	32	29	27	25
#9	79	69	61	56	52	#9	50	44	39	36	33	31
#10	93	81	72	66	61	#10	60	52	47	43	40	37
#11	108	94	84	76	71	#11	71	61	55	50	46	43

TABLE 2.B: 3/4" COVER TO OUTER LAYER BARS INNER LAYER DEVELOPMENT LENGTHS												
NOTE: USE TABLE 2.A IF BAR SPACING IS LESS THAN 4" O.C. UP TO #8, 5" O.C. FOR #9, #10, #11												
#3	12	12	12	12	12	12	12	12	12	12	12	12
#4	13	12	12	12	12	12	12	12	12	12	12	12
#5	16	14	13	13	13	13	13	13	13	13	13	13
#6	23	20	18	16	15	15	15	15	15	15	15	15
#7	37	32	29	26	24	23	22	20	19	18	18	18
#8	47	41	36	33	31	29	27	26	24	23	22	20
#9	57	50	44	41	38	35	33	31	29	27	25	23
#10	68	59	53	48	45	42	40	38	35	32	30	28
#11	80	69	62	57	52	49	46	44	41	38	35	33

TABLE 2.D: 1 1/2" COVER TO OUTER LAYER BARS INNER LAYER DEVELOPMENT LENGTHS												
NOTE: USE TABLE 2.A IF BAR SPACING IS LESS THAN 5" O.C. UP TO #8, 6" O.C. FOR #9, #10, #11												
#3	12	12	12	12	12	12	12	12	12	12	12	12
#4	13	12	12	12	12	12	12	12	12	12	12	12
#5	16	14	13	13	13	13	13	13	13	13	13	13
#6	23	20	18	16	15	15	15	15	15	15	15	15
#7	37	32	29	26	24	23	22	20	19	18	18	18
#8	47	41	36	33	31	29	27	26	24	23	22	20
#9	57	50	44	41	38	35	33	31	29	27	25	23
#10	68	59	53	48	45	42	40	38	35	32	30	28
#11	80	69	62	57	52	49	46	44	41	38	35	33

NOTES FOR TENSION DEVELOPMENT LENGTHS (L_d)

- REINFORCEMENT IS UNCOATED, WITH $F_y=60,000$ PSI.
- CONCRETE IS NORMAL WEIGHT (144-150#/C.F.).
- "TOP" REINFORCEMENT:
 - WHERE HORIZONTAL REINFORCEMENT IS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH, TABULATED LENGTHS MUST BE MULTIPLIED BY 1.3.
 - SUCH LOCATIONS INCLUDE, BUT ARE NOT LIMITED TO, BEAMS, SLABS, FOOTINGS, MATS, AND WALLS.
 - WALL HORIZONTAL REINFORCEMENT INCLUDE BARS EACH FACE, ADDED BARS, CORNER BARS, "U" BARS, ETC.
 - "FRESH" CONCRETE INCLUDES ALL CONCRETE CAST BELOW "TOP" REINFORCEMENT WITHIN PERIOD OF TWO HOURS.
- TABULATED LENGTHS MUST BE MULTIPLIED BY THE FOLLOWING MODIFICATION FACTORS:
 - LIGHTWEIGHT CONCRETE1.3
 - EPOXY-COATED BARS:
 - BARS WITH COVER $< 3d_b$ OR WITH CLEAR SPACING $< 6d_b$ 1.5
 - ALL OTHER CONDITIONS1.2
 - FOR EPOXY-COATED "TOP" BARS THE MAXIMUM FOR COMBINED FACTORS = 1.7
- WHERE TENSION DEVELOPMENT LENGTH (L_d) IS REQUIRED ON PLANS OR IN DETAILS, SEE TENSION DEVELOPMENT LENGTH TABLES.
- CLASS A LAP SPLICE LENGTHS (AS DEFINED BY ACI) ARE EQUAL TO TENSION DEVELOPMENT LENGTHS. SEE TABLES FOR TENSION DEVELOPMENT LENGTHS (L_d). APPLY APPROPRIATE MODIFICATION FACTORS TO CLASS A SPLICE LENGTHS.

TABLE #3 TENSION DEVELOPMENT LENGTHS FOR STANDARD END HOOKS (l_{dh}) (LENGTHS IN INCHES)									
BAR SIZE	CONCRETE STRENGTH (PSI)								
	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000	10,000*
#3	9	7	7	6	6	6	6	6	6
#4	11	10	9	8	7	7	7	6	6
#5	14	12	11	10	9	9	8	8	8
#6	17	15	13	12	11	10	10	9	9
#7	19	17	15	14	13	12	11	11	11
#8	22	19	17	16	15	14	13	12	12
#9	25	22	19	18	16	15	15	14	14
#10	28	24	22	20	19	17	16	16	16
#11	31	27	24	22	21	19	18	17	17
#14	37	32	29	27	25	23	22	21	21
#18	50	43	39	35	33	31	29	27	27

NOTES:

- TABLE #3 CONFORMS TO ACI 318-2002 (AND 2005). TABULATED VALUES ARE BASED UPON ACI 12.5.2, ASSUMING GRADE 60 REINFORCEMENT AND NORMALWEIGHT CONCRETE.
- PER ACI 12.5.3 (a), FOR #11 AND SMALLER BARS, IF COVER TO BAR IS 2 1/2 INCHES OR MORE, AND FOR 90 DEGREE HOOK WITH COVER ON BAR EXTENSION BEYOND HOOK NOT LESS THAN 2 INCHES, A MODIFICATION FACTOR OF 0.7 MAY BE APPLIED. MINIMUM l_{dh} SHALL NOT BE LESS THAN $8d_b$ NOR 6 INCHES.

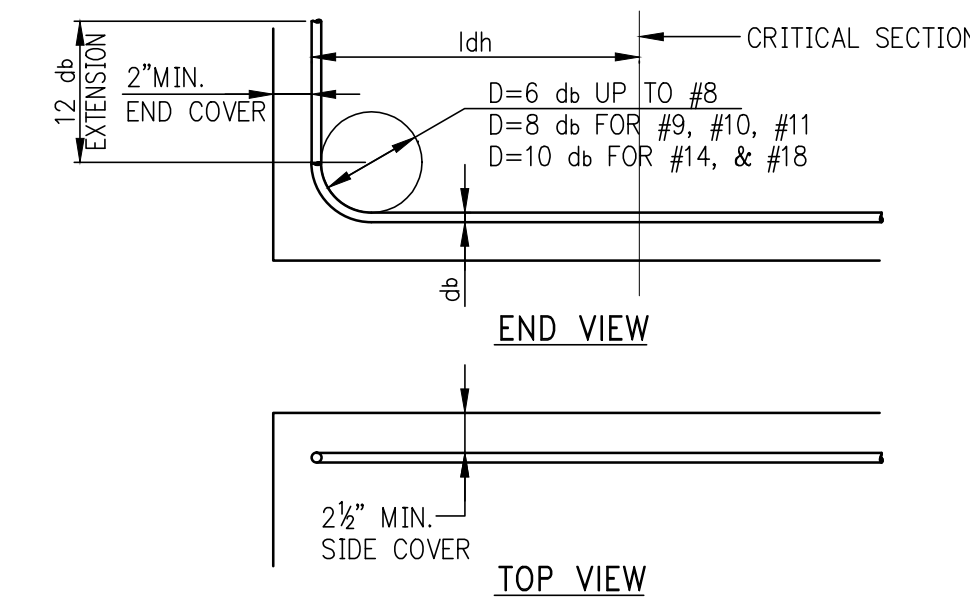


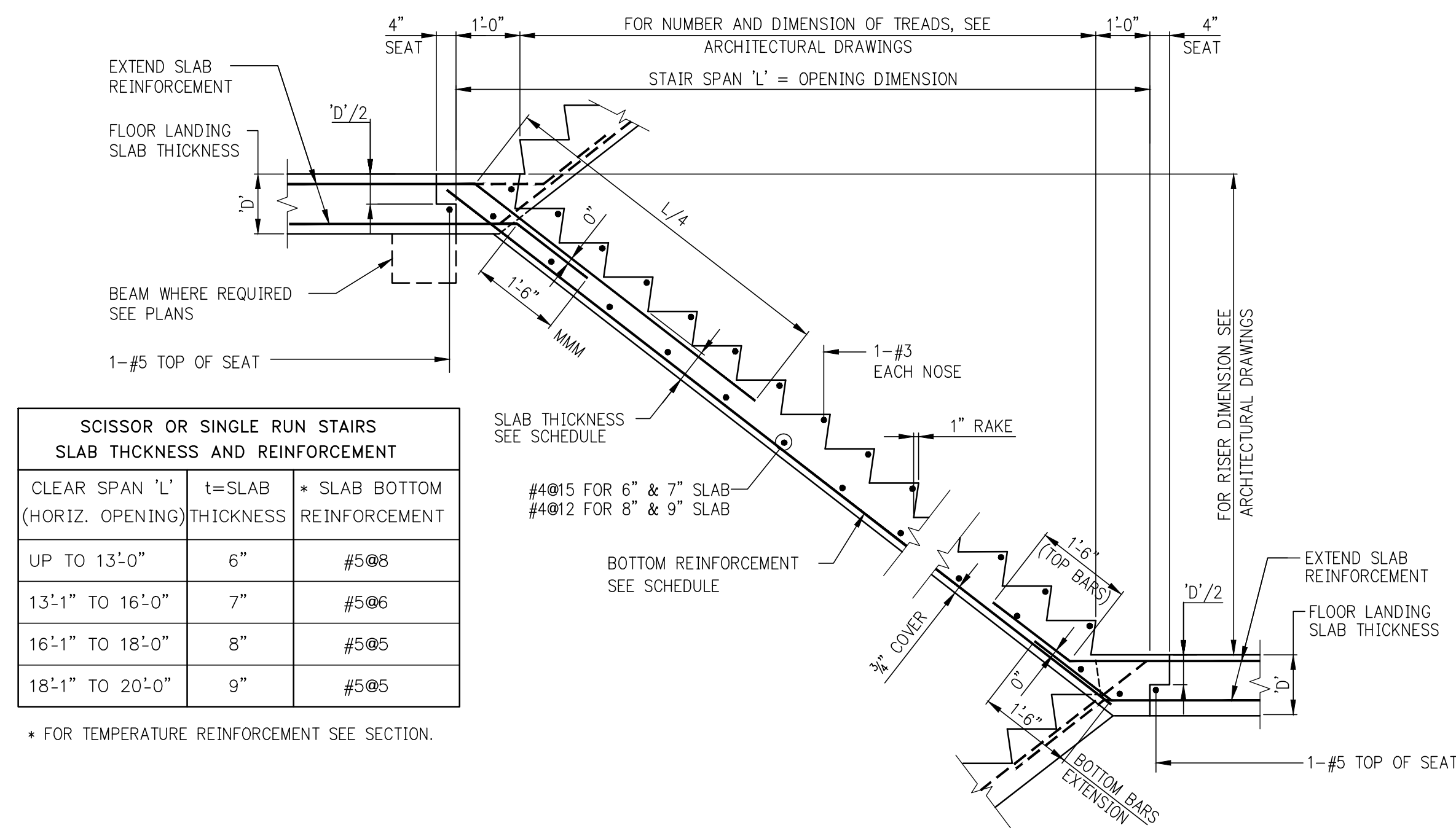
TABLE #4 COMPRESSION LAP SPLICES (LENGTHS IN INCHES)				
BAR SIZE	GRADE OF REINFORCEMENT			
	60 KSI (30 DIA.)	75 KSI (44 DIA.)	80 KSI (48 DIA.)	
#3	12	17	18	
#4	15	22	24	
#5	19	28	30	
#6	23	33	36	
#7	27	39	42	
#8	30	44	48	
#9	34	50	54	
#10	38	56	61	
#11	43	62	68	
#14 AND #18	1. LAP SPLICES ARE NOT PERMITTED USE MECHANICAL CONNECTIONS OR WELDED SPLICES FOR #14 AND #18, PER ACI 318 (12.14.3). 2. LAP SPLICES OF #14 AND #18 BARS TO #11 AND SMALLER BARS ARE PERMITTED PER ACI 318 (12.16.2).			

3. FOR BARS OF DIFFERENT SIZE, USE LARGER OF SPLICE LENGTH OF SMALLER BAR (TABLE #4) OR DEVELOPMENT LENGTH OF LARGER BAR (FROM TABLE #3) PER ACI 318 (12.16.2).

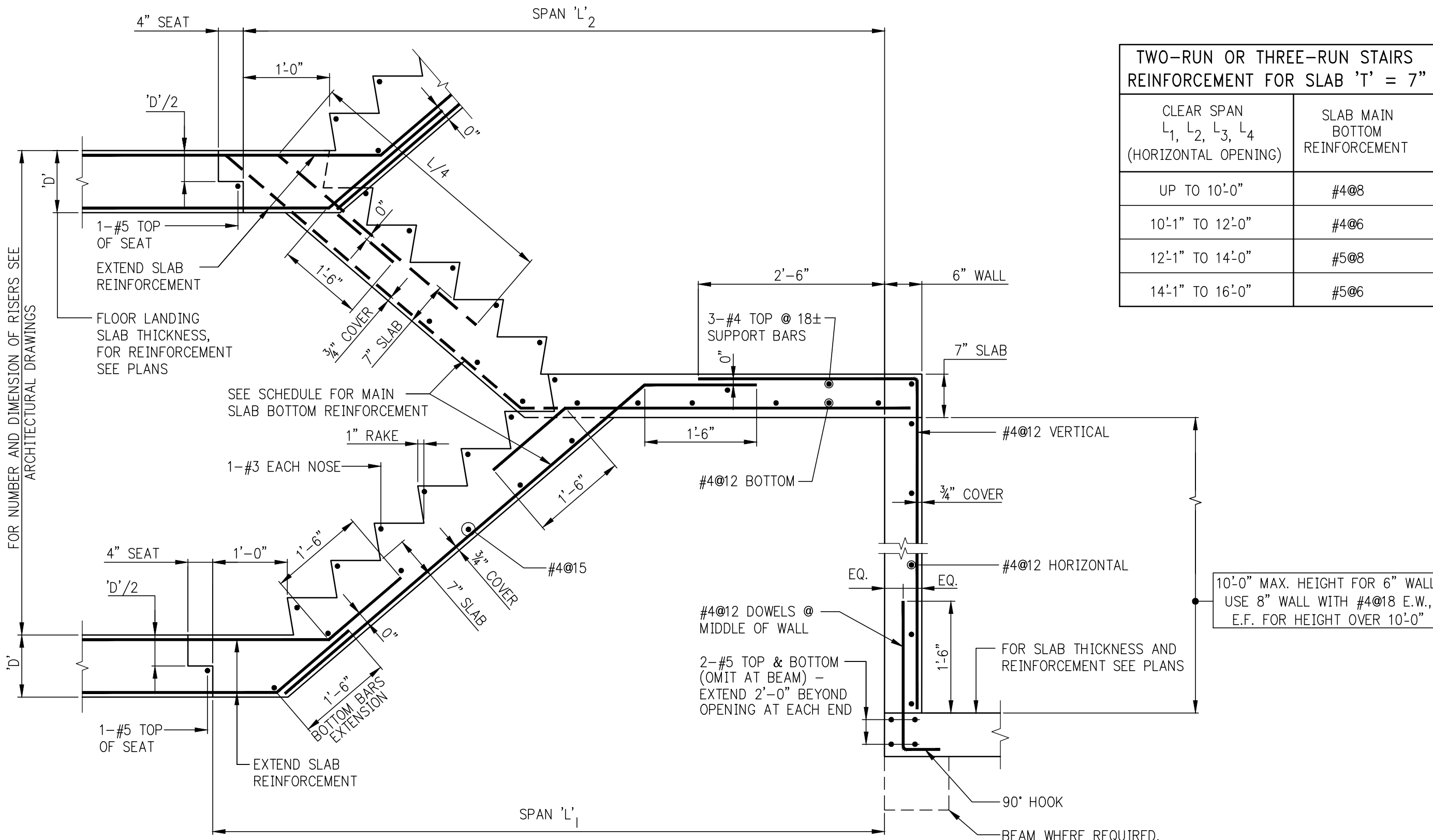
NOTE:

TABLE #4 APPLIES FOR NORMALWEIGHT CONCRETE WITH $f'_c = 3,000$ PSI OR GREATER.

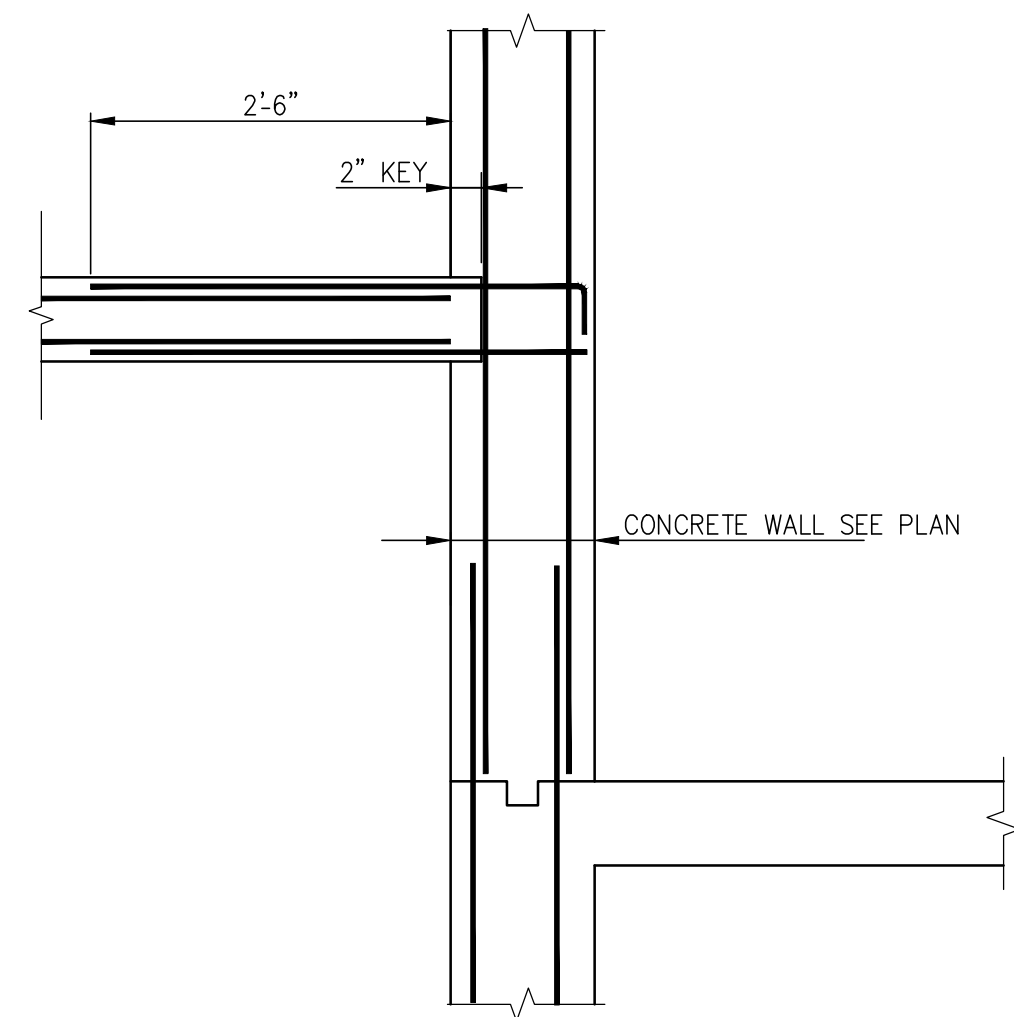
TABLE #5 DEVELOPMENT LENGTHS FOR BARS IN COMPRESSION (LENGTHS IN INCHES)											
BAR SIZE	fy = 60,000 PSI			fy = 75,000 PSI			fy = 80,000 PSI				
	CONC. fc (IN PSI)			CONC. fc (IN PSI)			CONC. fc (IN PSI)				
	3,000	4,000	5,000 OR MORE	3,000	4,000	5,000 OR MORE	3,000	4,000	5,000 OR MORE		
#3	12	12	12	12	12	12	12	12	12	12	12
#4	12	12	12	14	12	12	12	12	15	13	12
#5	12	12	12	17	15	14	18	16	16	15	15
#6	17	15	14	21	18	17	22	19	22	19	18
#7	19	17	16	24	21	20	26	22	22	21	21
#8	22	19	18	28	24	23	29	25	25	24	24
#9	25	22	21	31	27	25	33	28	27	27	27
#10	28	24	23	34	30	28	36	31	31	31	30
#11	31	27	26	38	33	31	40	34	34	34	33
#14	37	32	31	48	42	39	51	44	44	44	42
#18	50	43	41	62	54	51	65	56	54	54	52



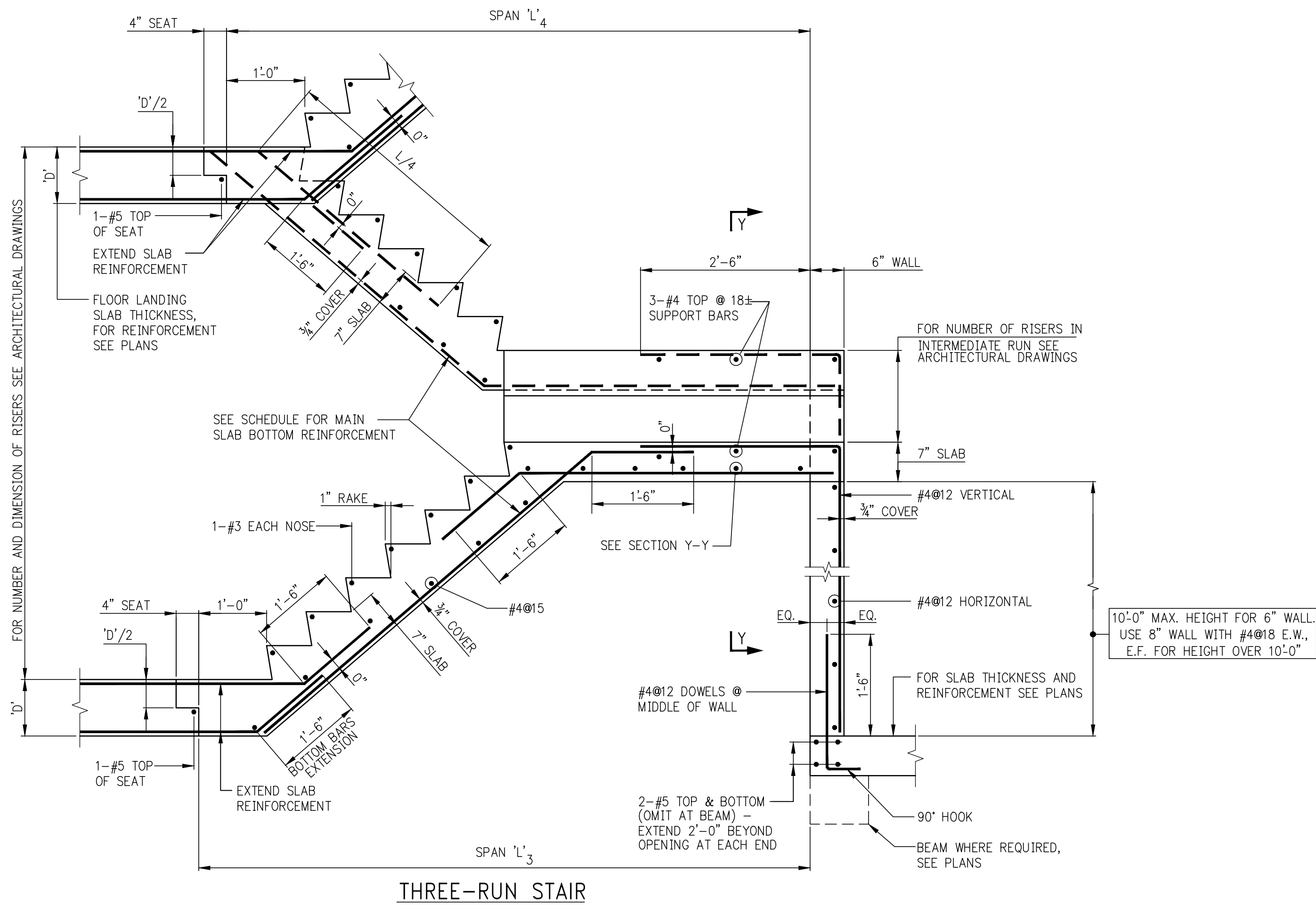
SCISSOR OR SINGLE RUN STAIR
FOR FLOOR REINFORCEMENT EXTENDED INTO STAIR SLAB, SEE FRAMING PLANS.



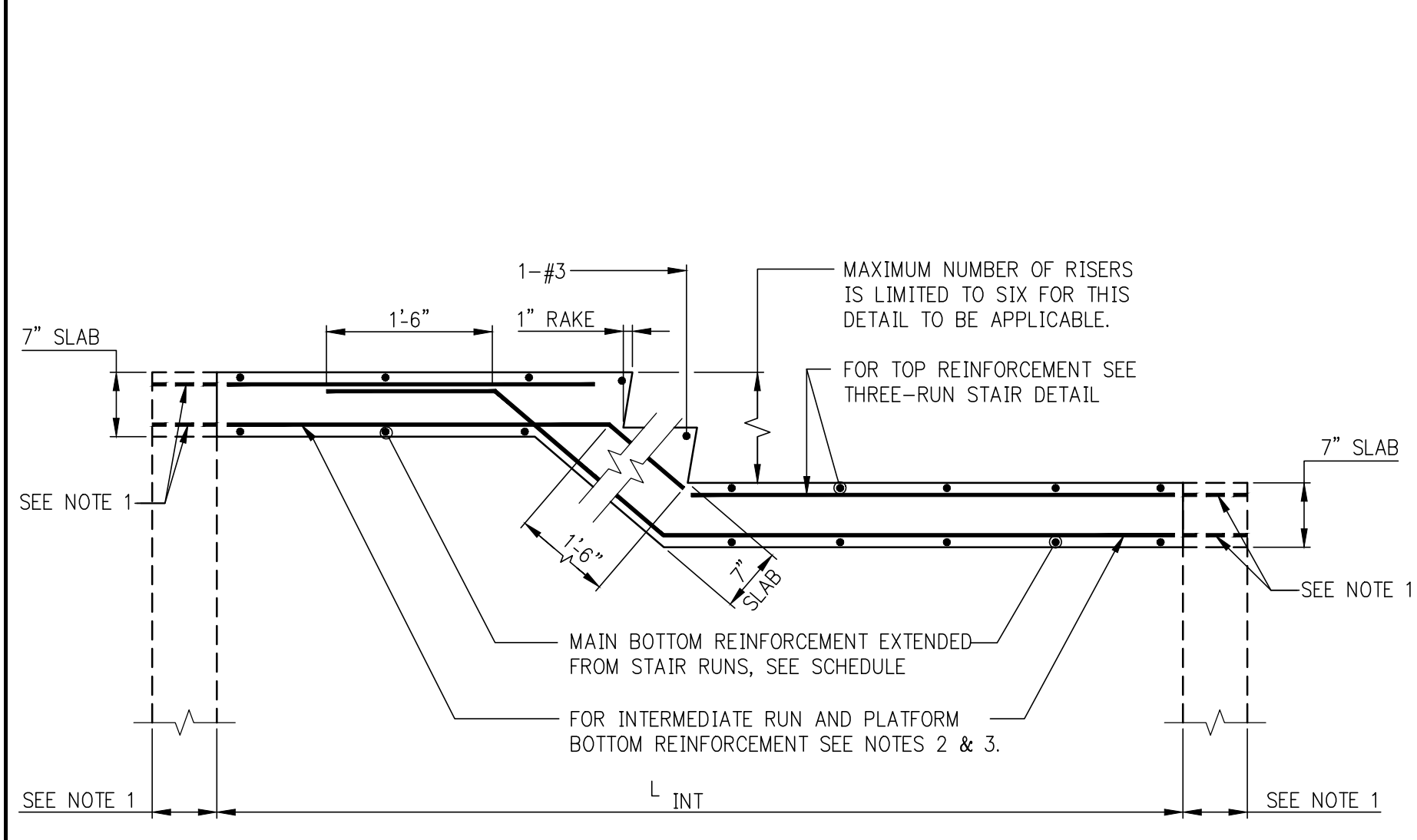
TWO-RUN STAIR



STAIR LANDING @ WALL

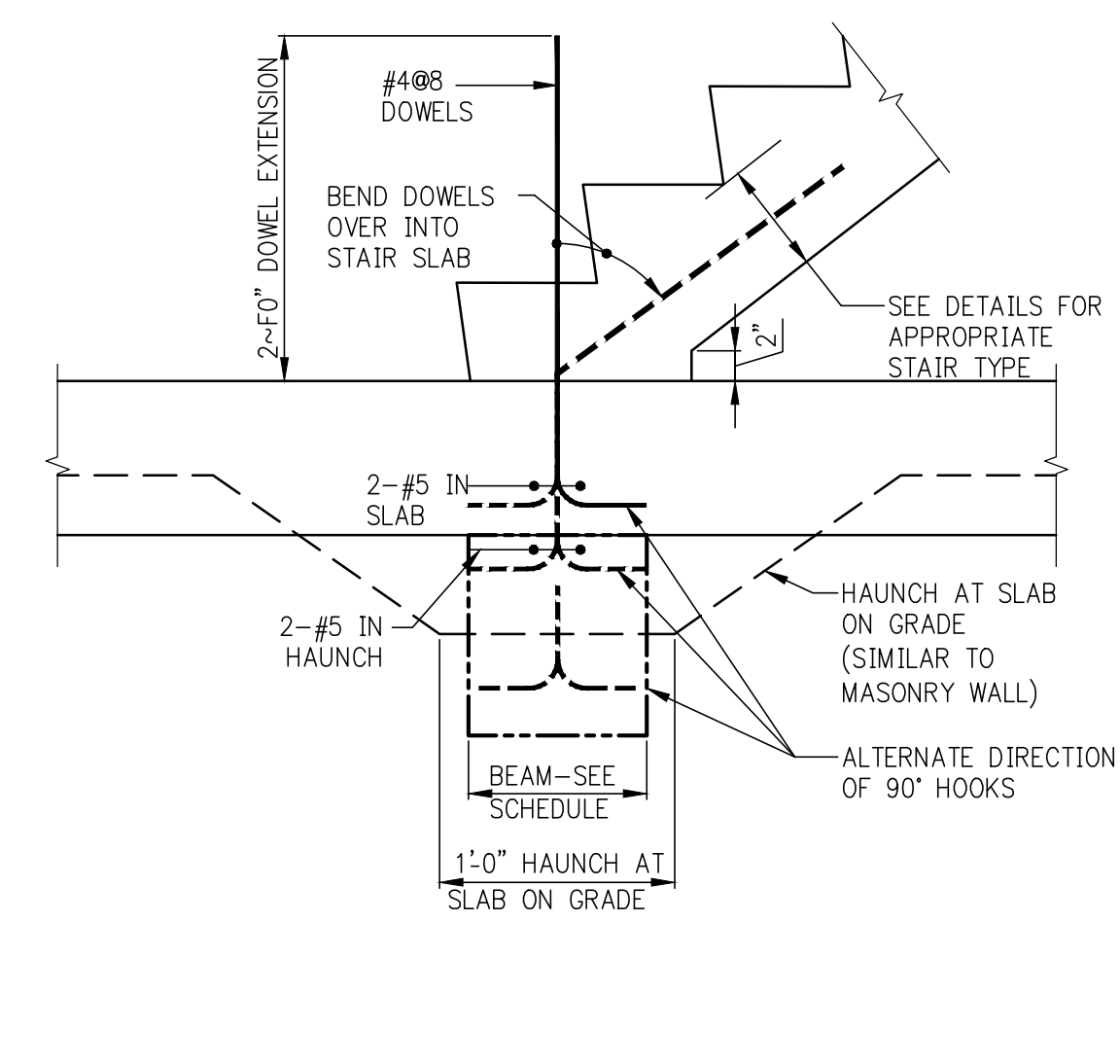


THREE-RUN STAIR

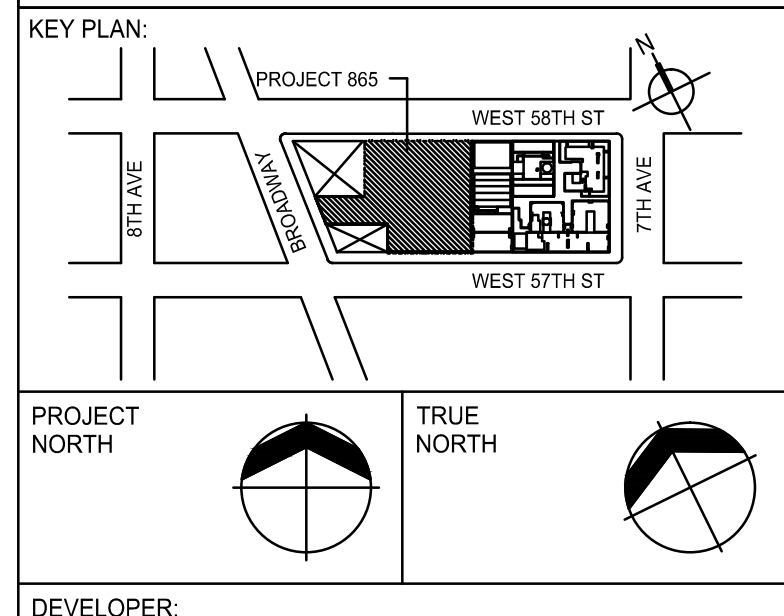


SECTION Y-Y
(AT THREE-RUN STAIR)

- NOTES:
1. EXTEND SLAB AND REINFORCEMENT OVER SUPPORT WALLS WHERE WALLS ARE SHOWN ON PLANS.
 2. WHERE 'L INT' IS NOT SUPPORTED AT ENDS, PROVIDE: #4@12 BOTTOM
 3. WHERE 'L INT' IS SUPPORTED, PROVIDE: #4@8 FOR 'L INT' UP TO 10'-0", #4@6 FOR 'L INT' BETWEEN 10'-1" AND 12'-0", FOR 'L INT' SPANNING MORE THAN 12'-0", DESIGNER TO PROVIDE DETAILS.



BOTTOM OF STAIR-NO SLAB OPENING



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INTERIOR DESIGNER: **Residential**
Rotter Architecture and Design Studio, PLLC
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LANDMARK/PRESERVATION CONSULTANT: **Jan Hird Pokorny Associates, Inc.**
39 West 37th Street, 12A
New York, NY 10018
TEL: 212 759 6462 FAX: 212 759 6540

No.	DESCRIPTION	DATE
1	SCHEMATIC DESIGN	03-31-2014
2	ISSUED FOR SCHEMATIC DESIGN	04-04-2014
3	STEEL BID PACKAGE	06-22-2014
4	SUPERSTRUCTURE CONCRETE BID	06-02-2014
5	DESIGN DEVELOPMENT	07-01-2014
6	ISSUED FOR DESIGN DEVELOPMENT	07-31-2014
7	CD PROGRESS ISSUE 1	10-15-2014
8	ISSUED FOR CONSTRUCTION UP TO GROUND FL ONLY	10-17-2014
9	ISSUED FOR CONSTRUCTION UP TO 5TH FL ONLY	11-07-2014
10	DOB SUBMISSION	12-19-2014
11	DOB SUBMISSION	02-05-2015

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ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

CONSULTANT: **WSP**
228 East 45th Street
New York, NY 10017
(212) 687-8888
www.wspgroup.com/usa

PROJECT: **217 WEST 57TH STREET
NEW YORK, NY**

DRAWING TITLE: **TYPICAL STAIR DETAILS**

SEAL & SIGNATURE	DATE: 03/31/14
	PROJECT No: 2012185
	DRAWN: CADDO REV: 11
	CHK: Y. E.
	SCALE: AS INDICATED
DWG No: FO-800.00	
DOB PAGE No: of	DOB 9-SCAN: