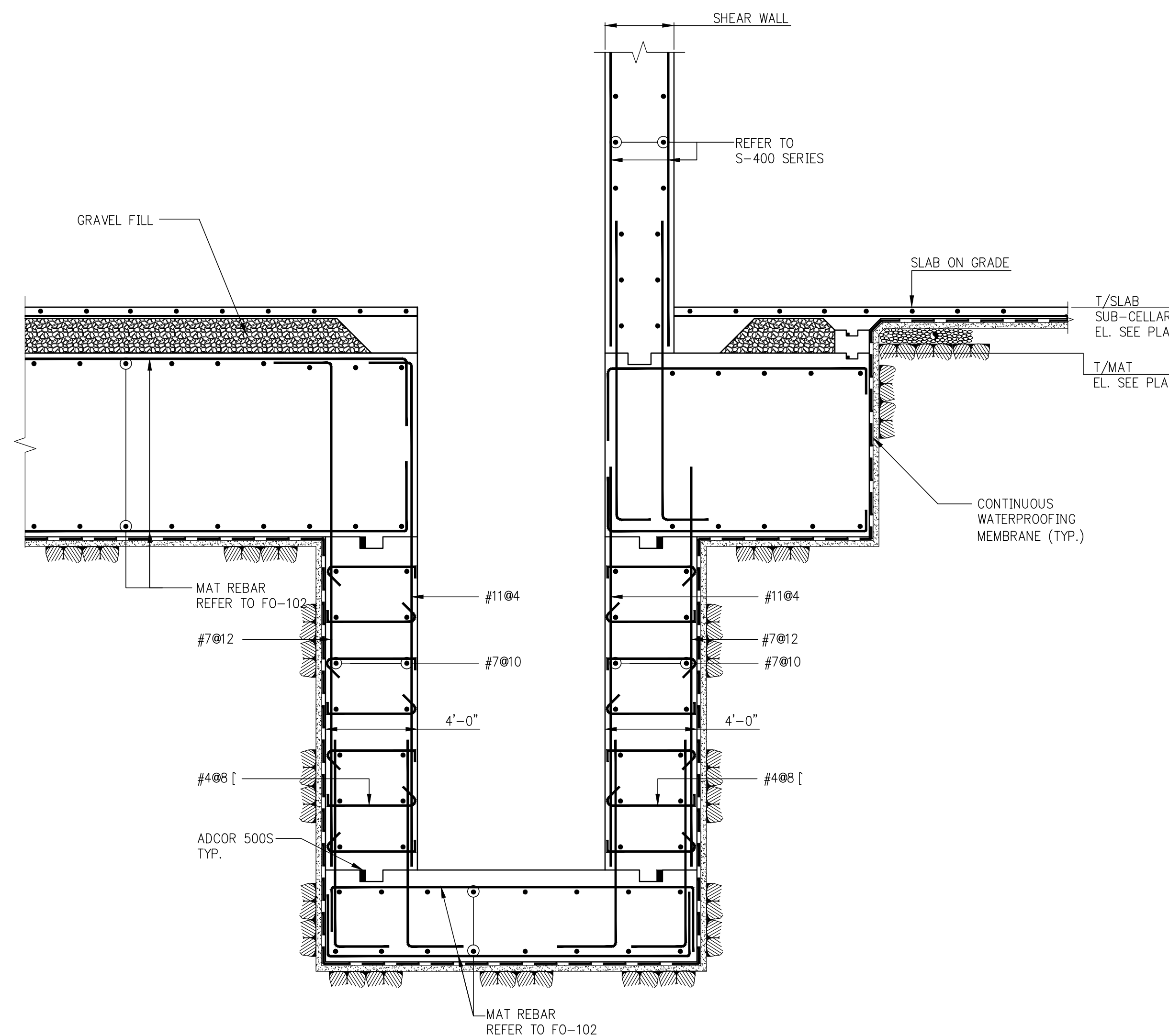
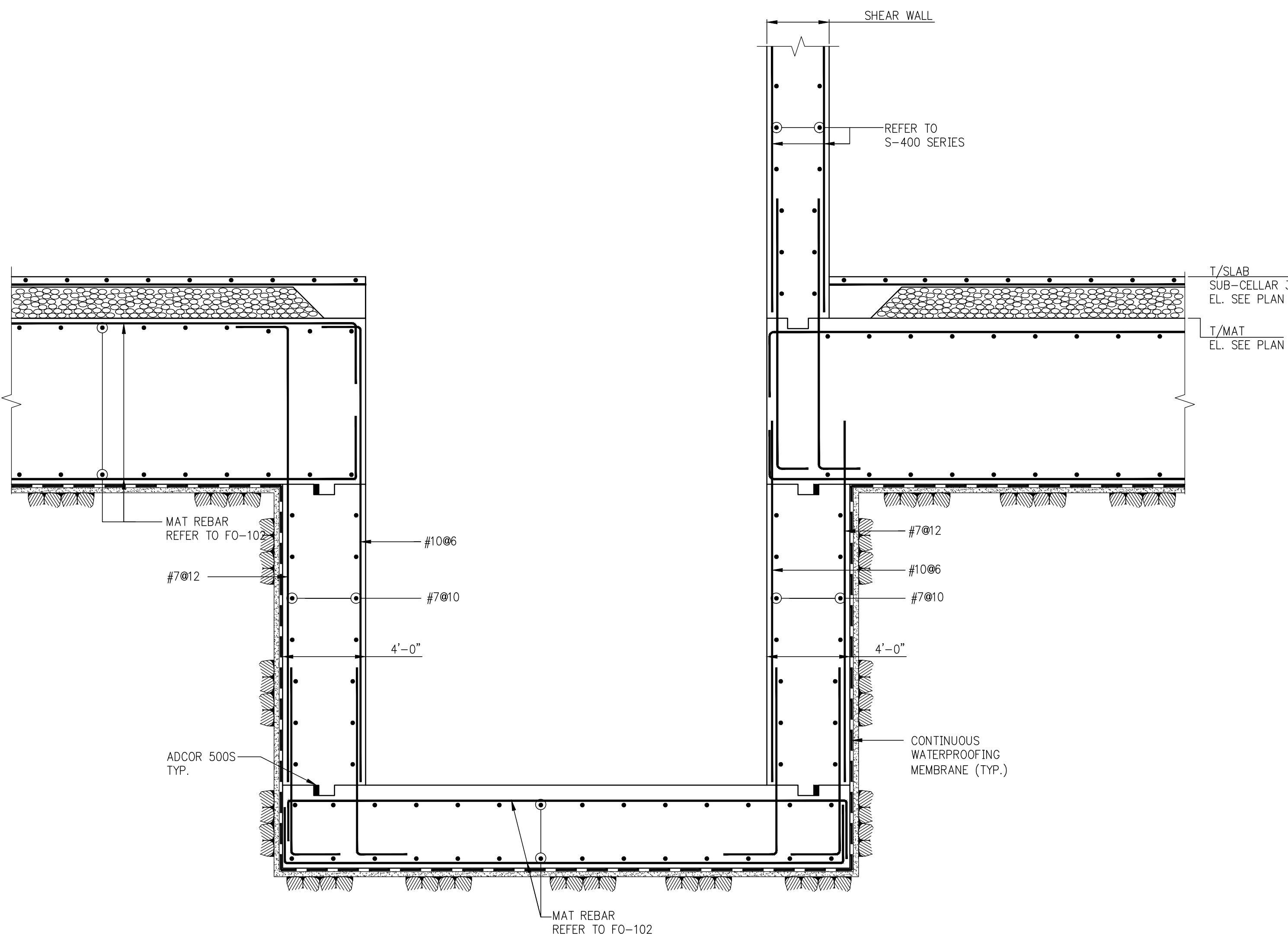


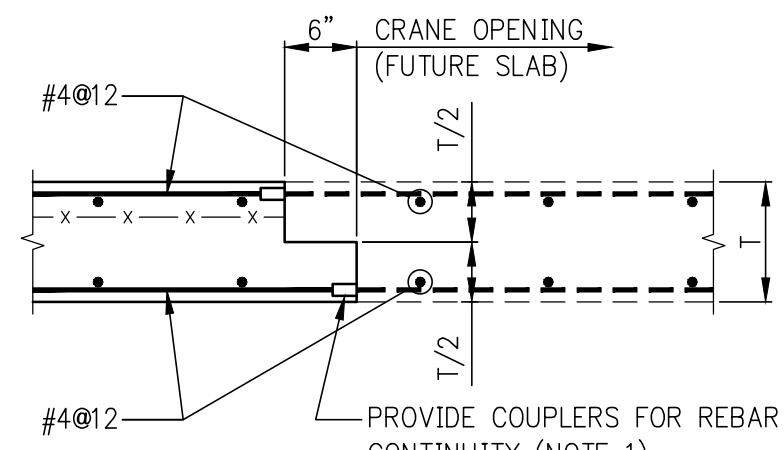
1 SECTION @ ELEVATOR PIT
SCALE: 1/4"=1'-0"



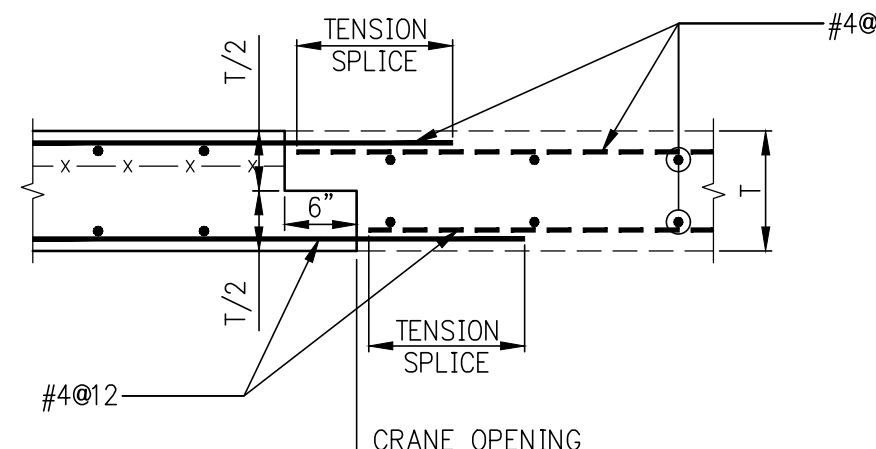
2 SECTION @ ELEVATOR PIT
SCALE: 1/4"=1'-0"



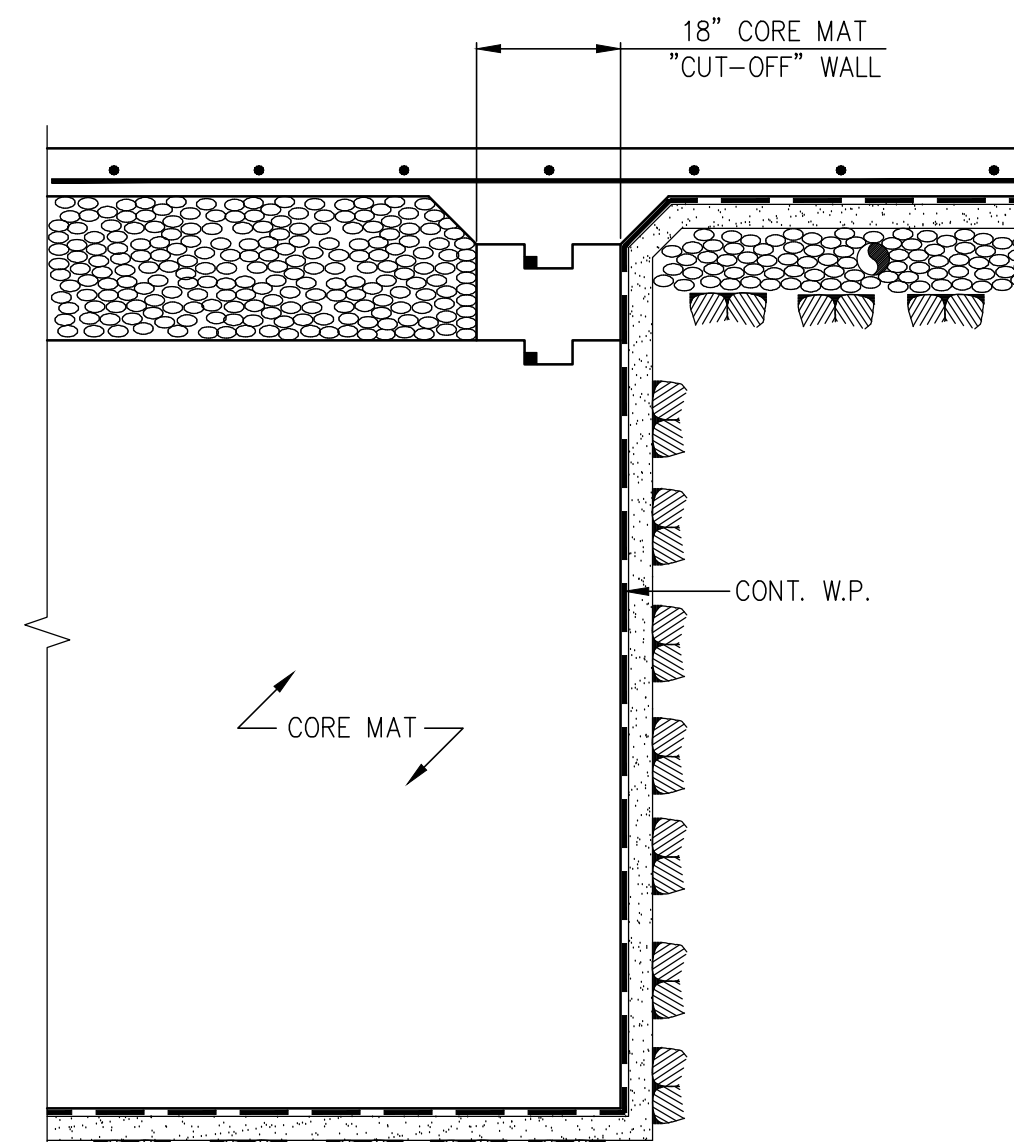
3 SECTION @ ELEVATOR PIT
SCALE: 1/4"=1'-0"



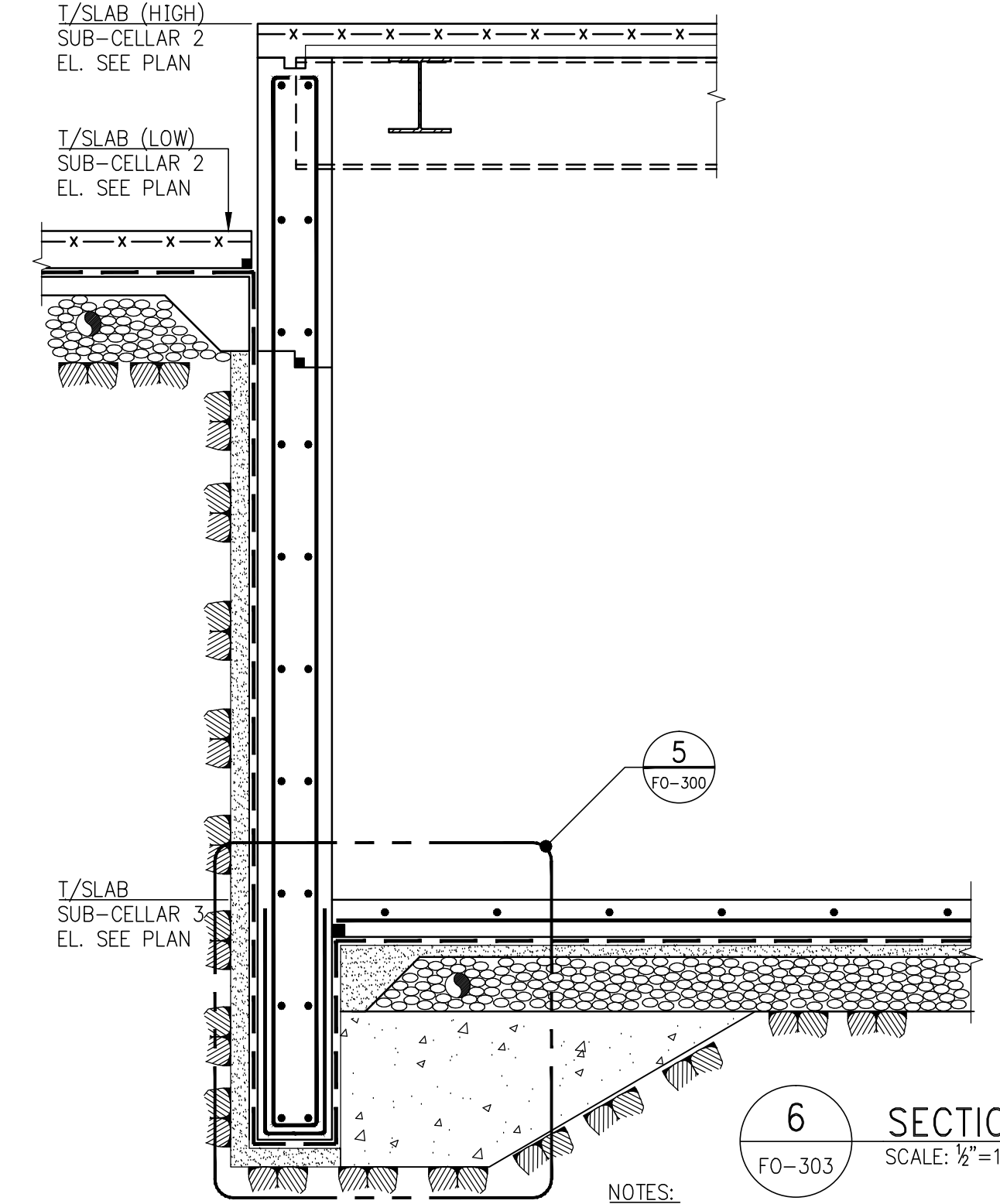
4 CRANE OPENING DETAIL
SCALE: 1/4"=1'-0"



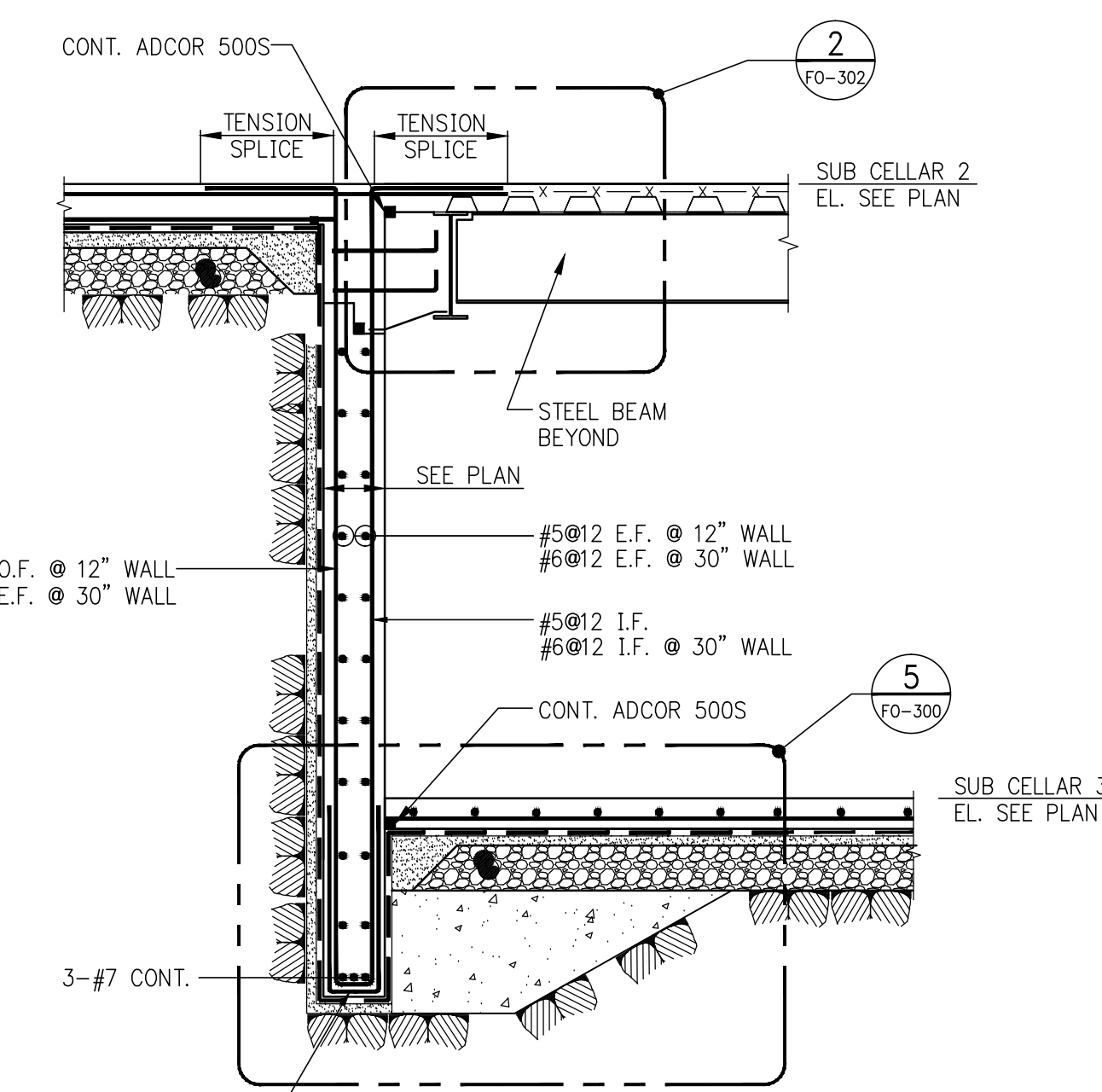
4A CRANE OPENING DETAIL (ALTERNATE)
SCALE: 1/4"=1'-0"



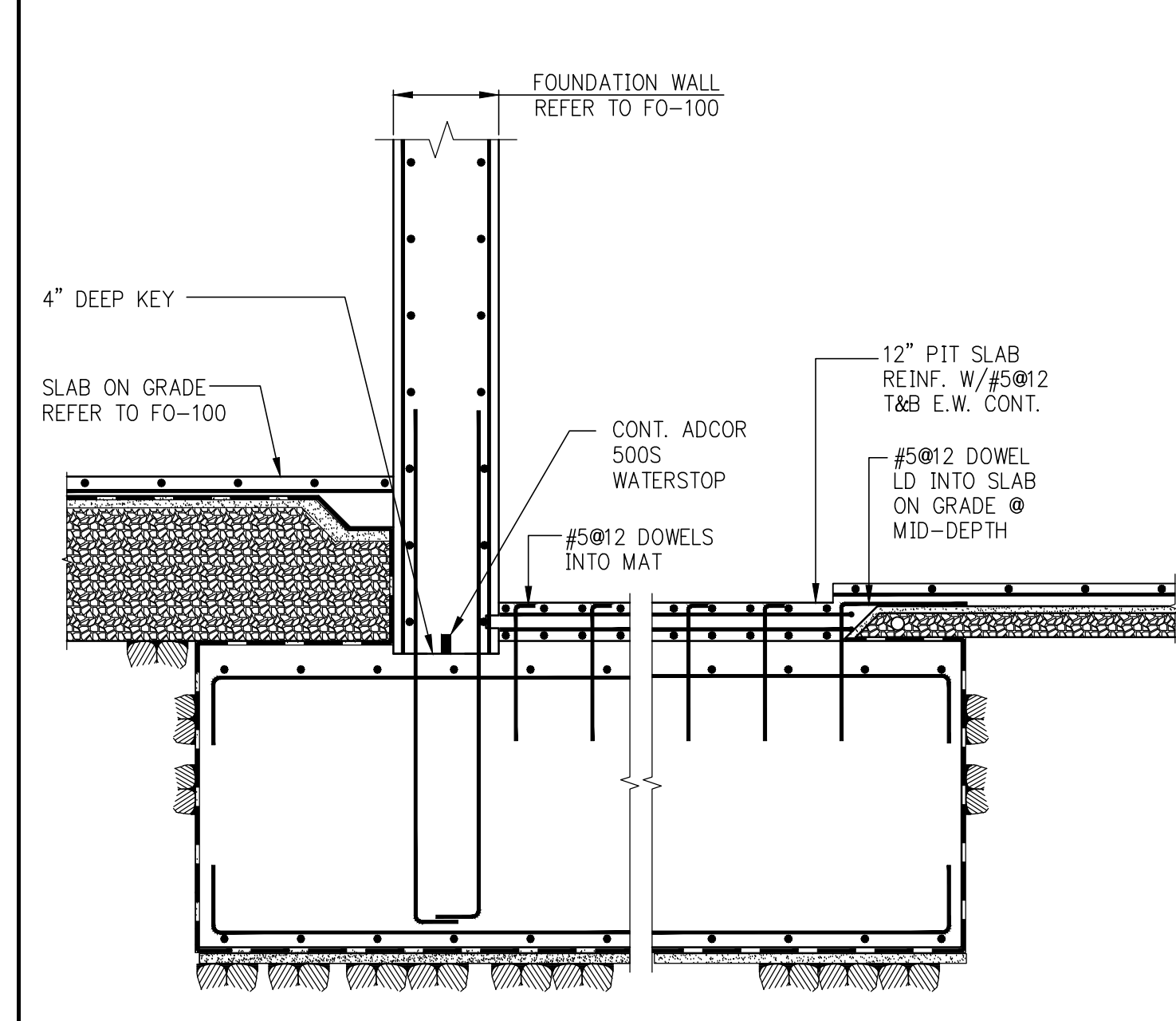
5 SECTION
SCALE: 1/4"=1'-0"



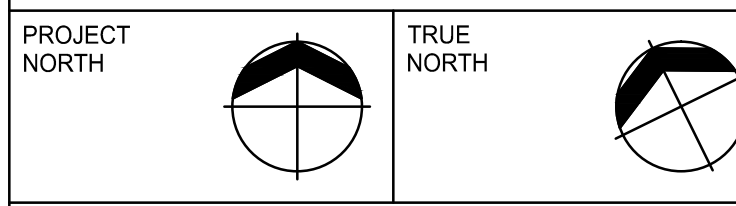
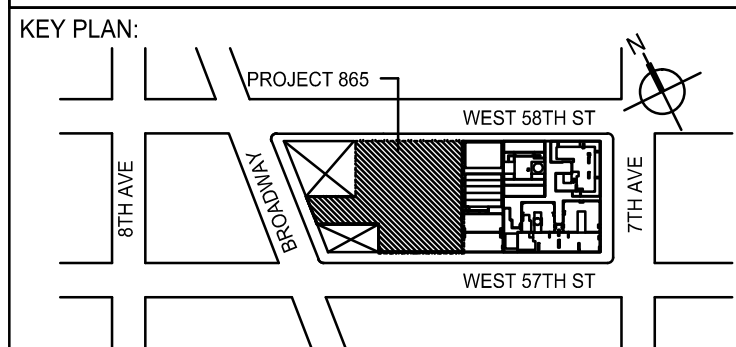
6 SECTION
SCALE: 1/4"=1'-0"



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



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



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**
A&A 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 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: **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
1	STEEL BID PACKAGE	05-22-2014
2	FOUNDATION 90% CD	05-22-2014
3	SUPERSTRUCTURE CONCRETE BID	06-02-2014
4	DOB FILING SET	06-17-2014
5	FOUNDATION 90% CD	07-01-2014
6	SE ZONE STEEL BID	08-20-2014
7	STRUCTURAL STEEL BID	09-15-2014
8	CD PROGRESS ISSUE 1	10-15-2014
9	DOB SUBMISSION	12-19-2014
10	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.

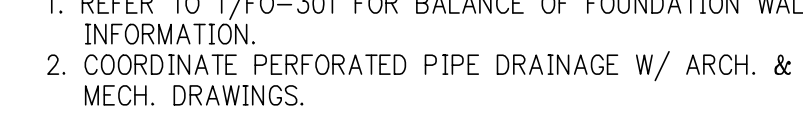
CONSULTANT: **WSP**
228 East 45th Street
New York, NY 10017
(212) 687-8888
www.wspgroup.com/usa

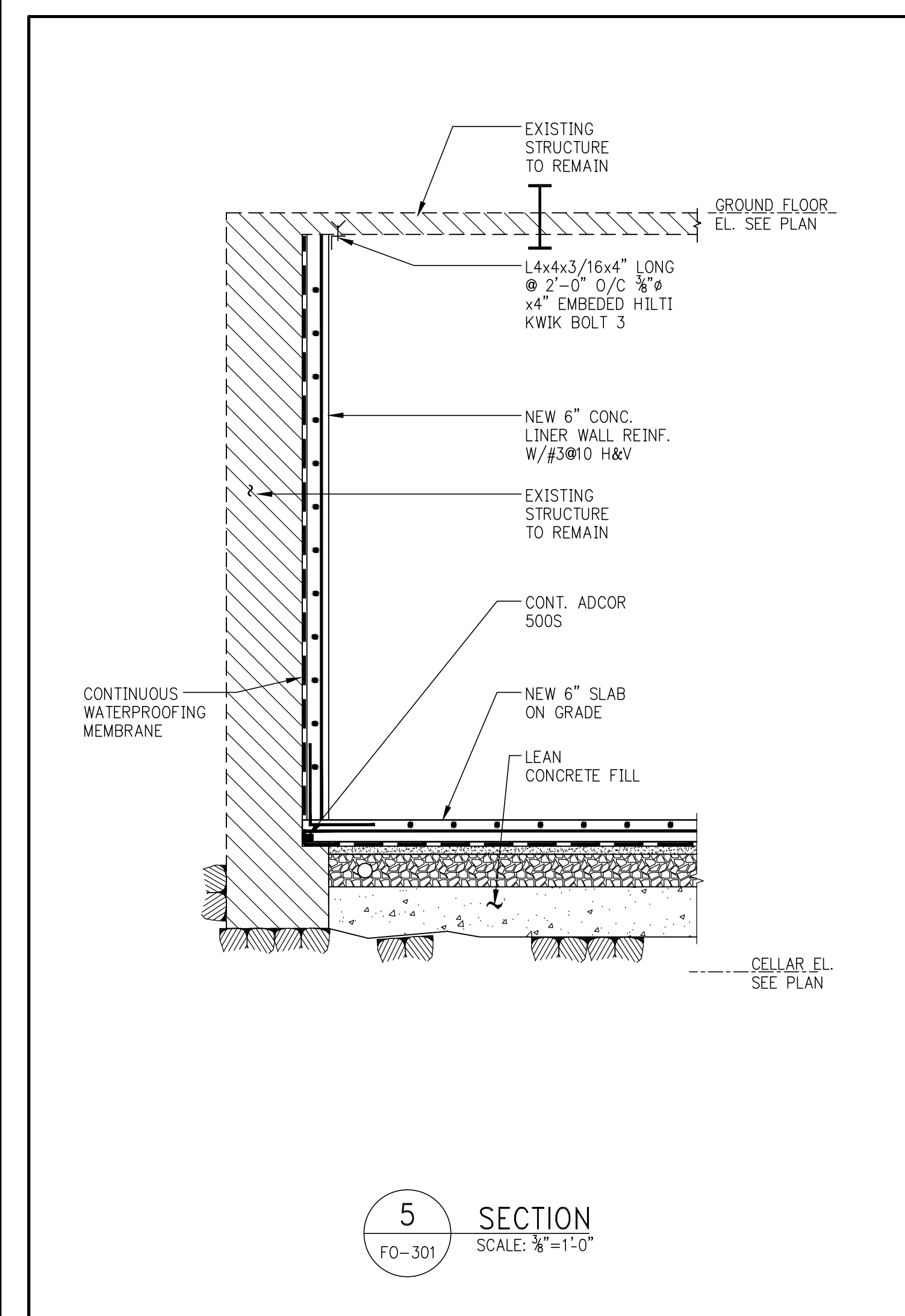
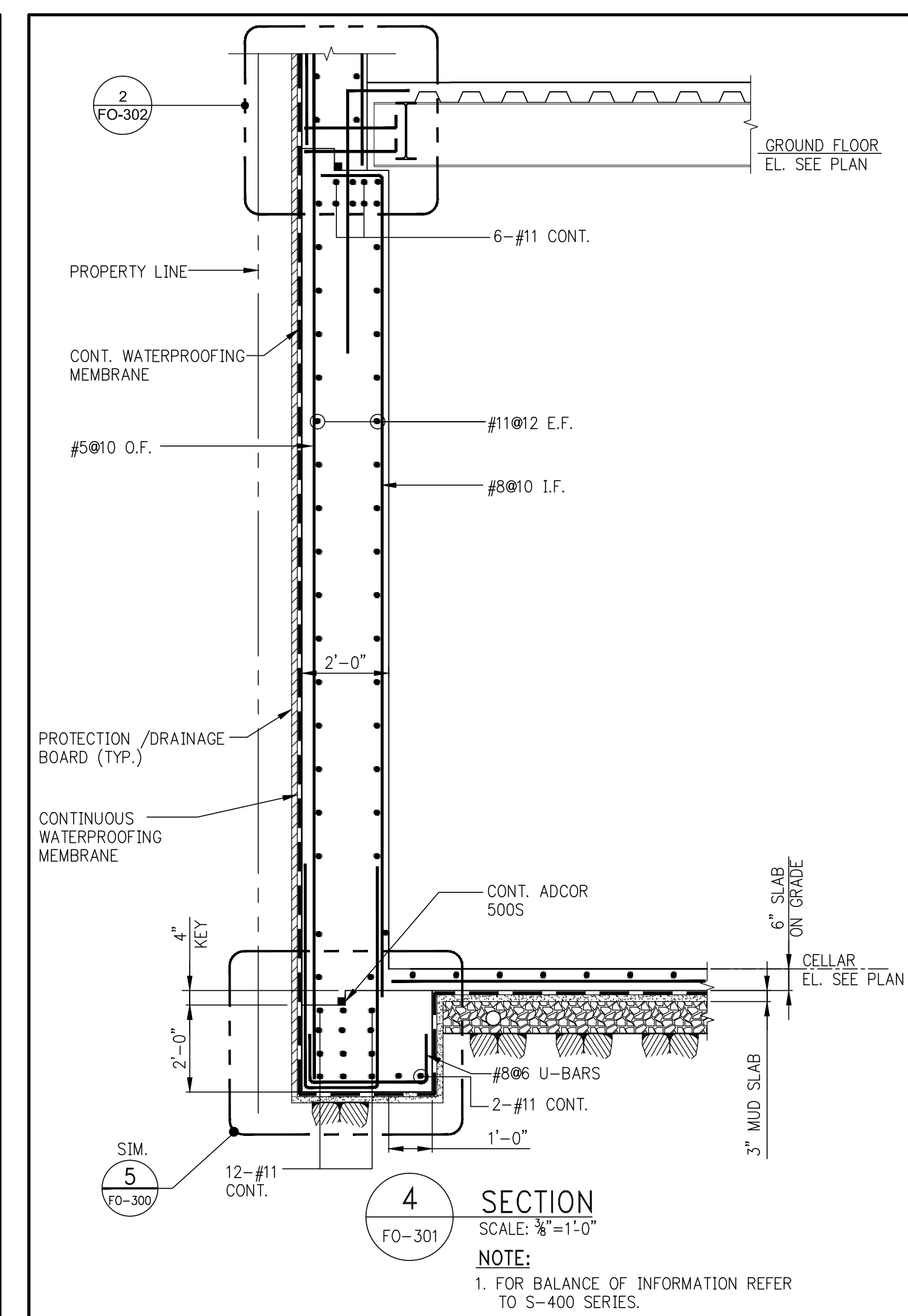
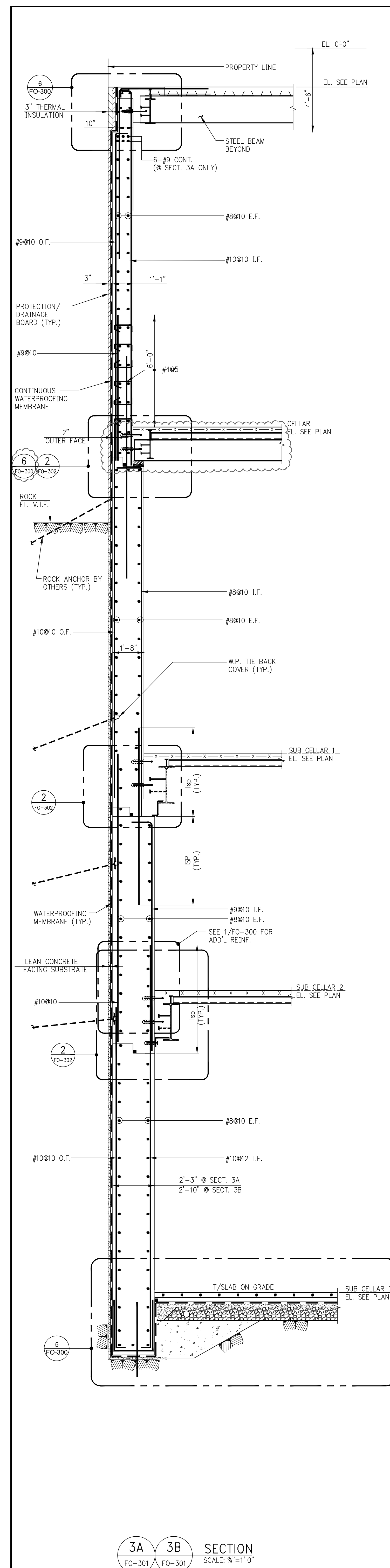
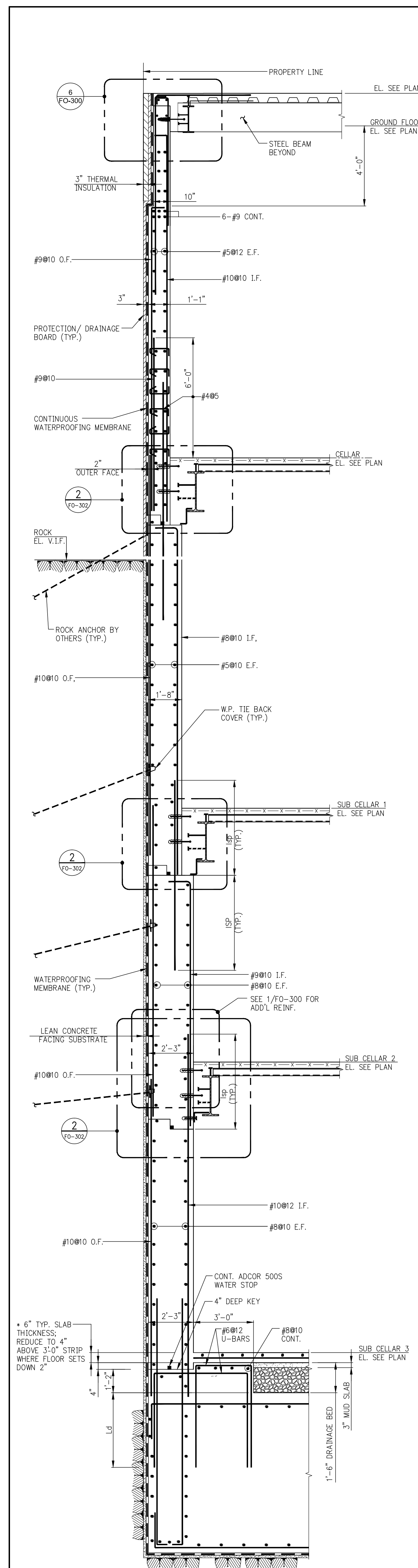
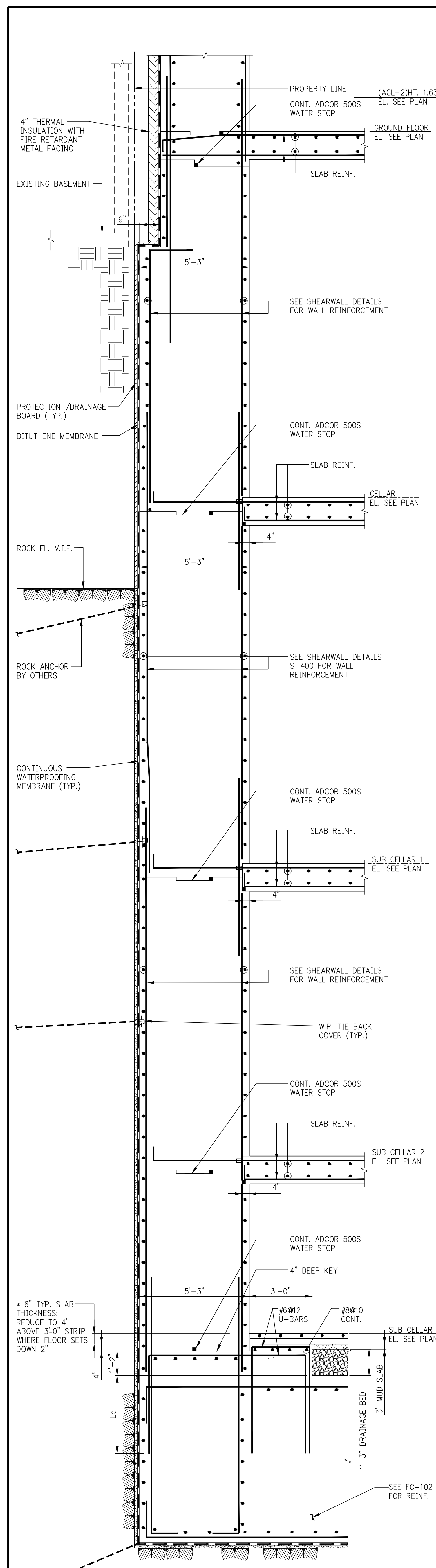
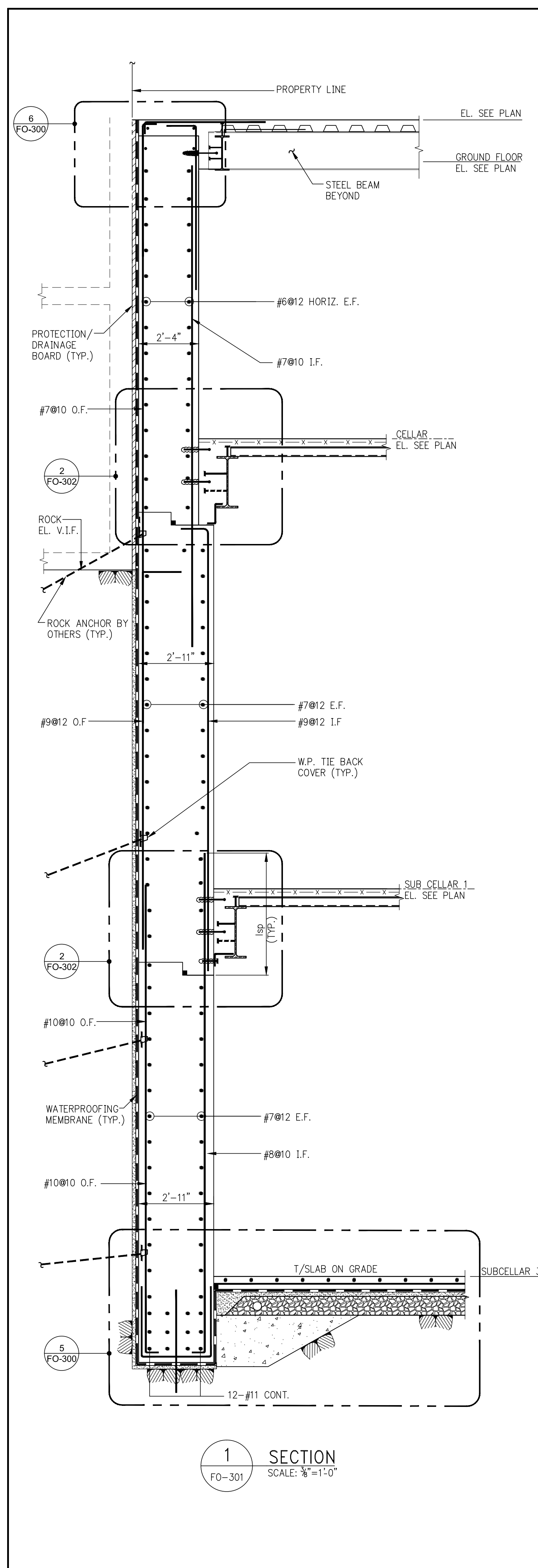
PROJECT: **217 WEST 57TH STREET**
NEW YORK, NY

DRAWING TITLE: **FOUNDATION SECTIONS 4**

SEAL & SIGNATURE: **DATE: 03/31/14**
PROJECT No: 2012186
DRAWN: CADD REV: **10**
CHK: Y.E.
SCALE: AS INDICATED
DWG No: **FO-303.02**

DOB EMPLOYEE STRAMP: of DOB 9-SCAN:





DEPT OF BLDG & 21532820

21532820

21532820

KEY PLAN

PROJECT MAP

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: 646 487 5501

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 1818 FAX: 212 385 1911

CURTAINWALL CONSULTANT:

AJLP 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	06-17-2014
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

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) 687-8888

www.wspgroup.com/usa

PROJECT:

217 WEST 57TH STREET

NEW YORK, NY

DRAWING TITLE:

FOUNDATION SECTIONS 2

SEAL & SIGNATURE:

DATE:

03/31/14

PROJECT No:

2012185

DRAWN: CADDO

REV:

17

CHK: Y.E.

SCALE: AS INDICATED

DWG No:

FO-301.02

DOB PAGE No:

of

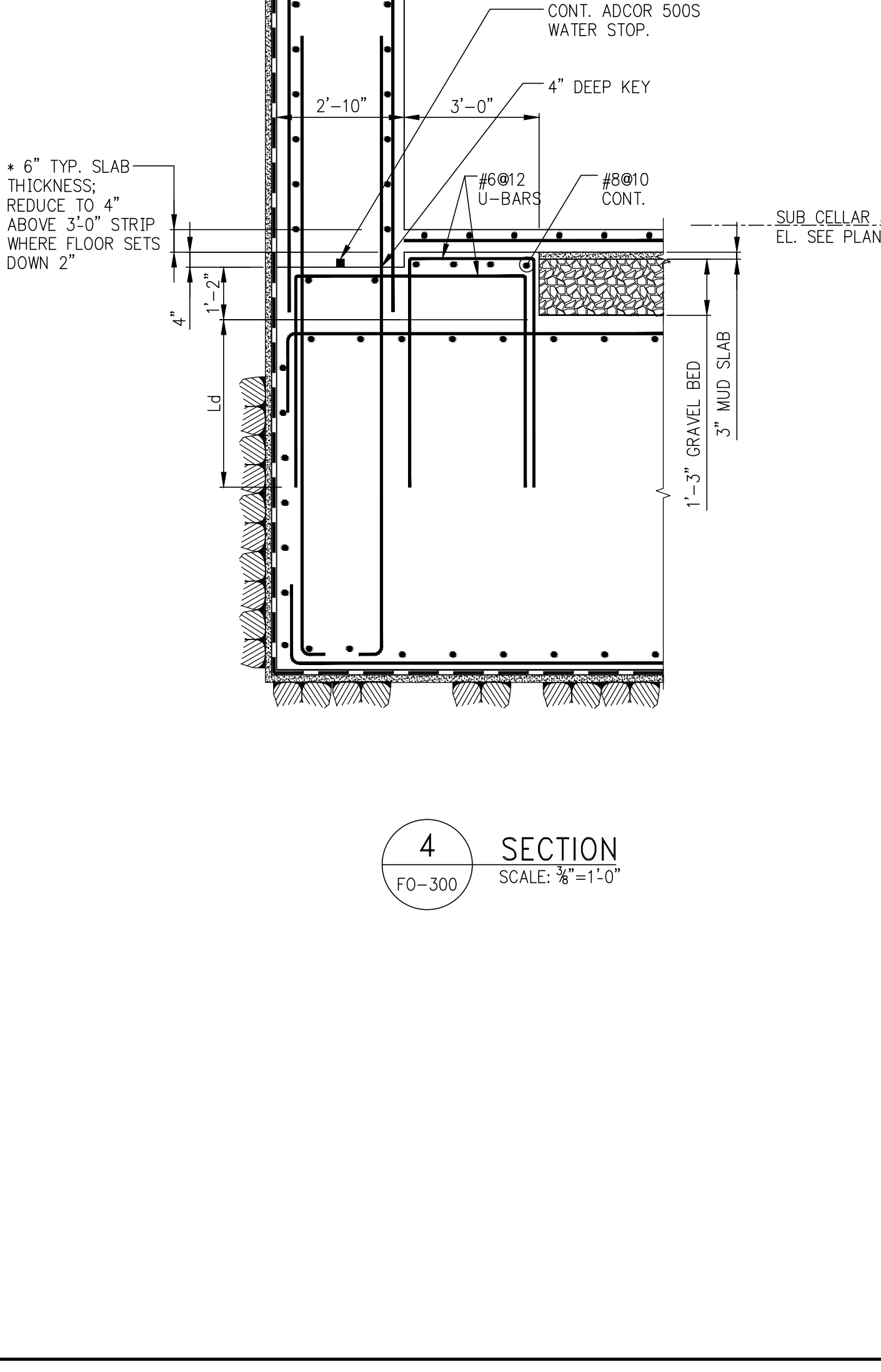
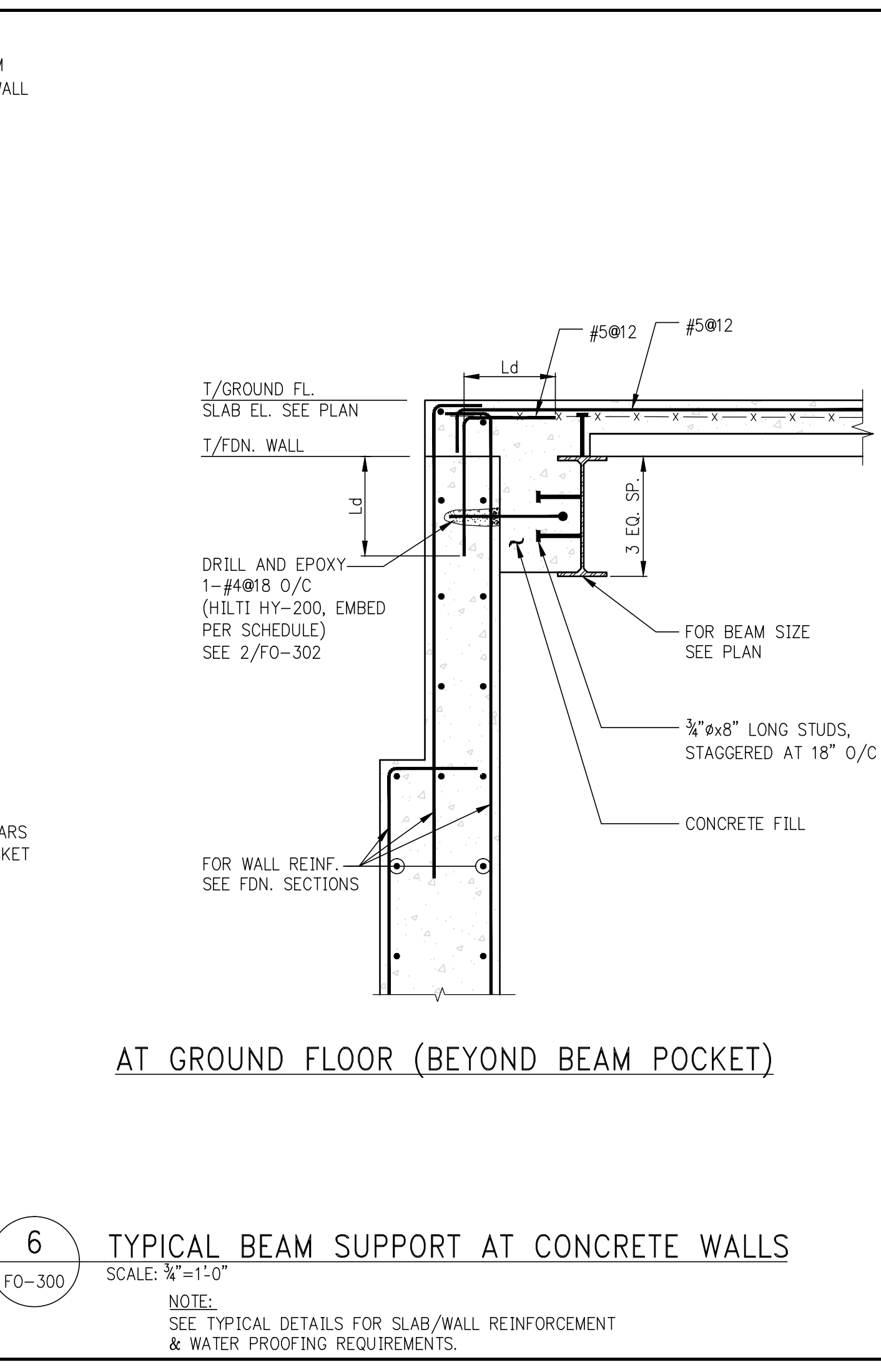
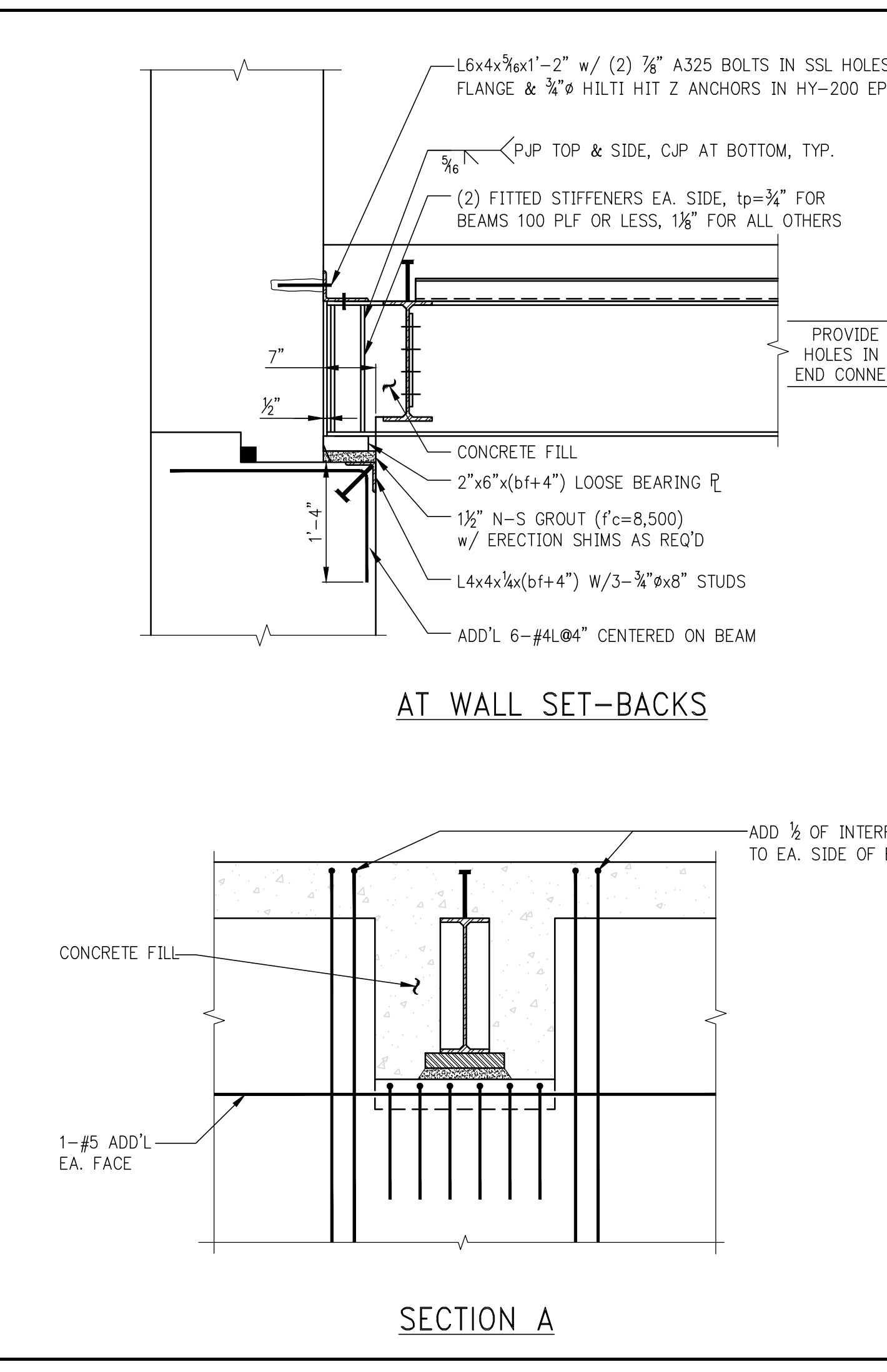
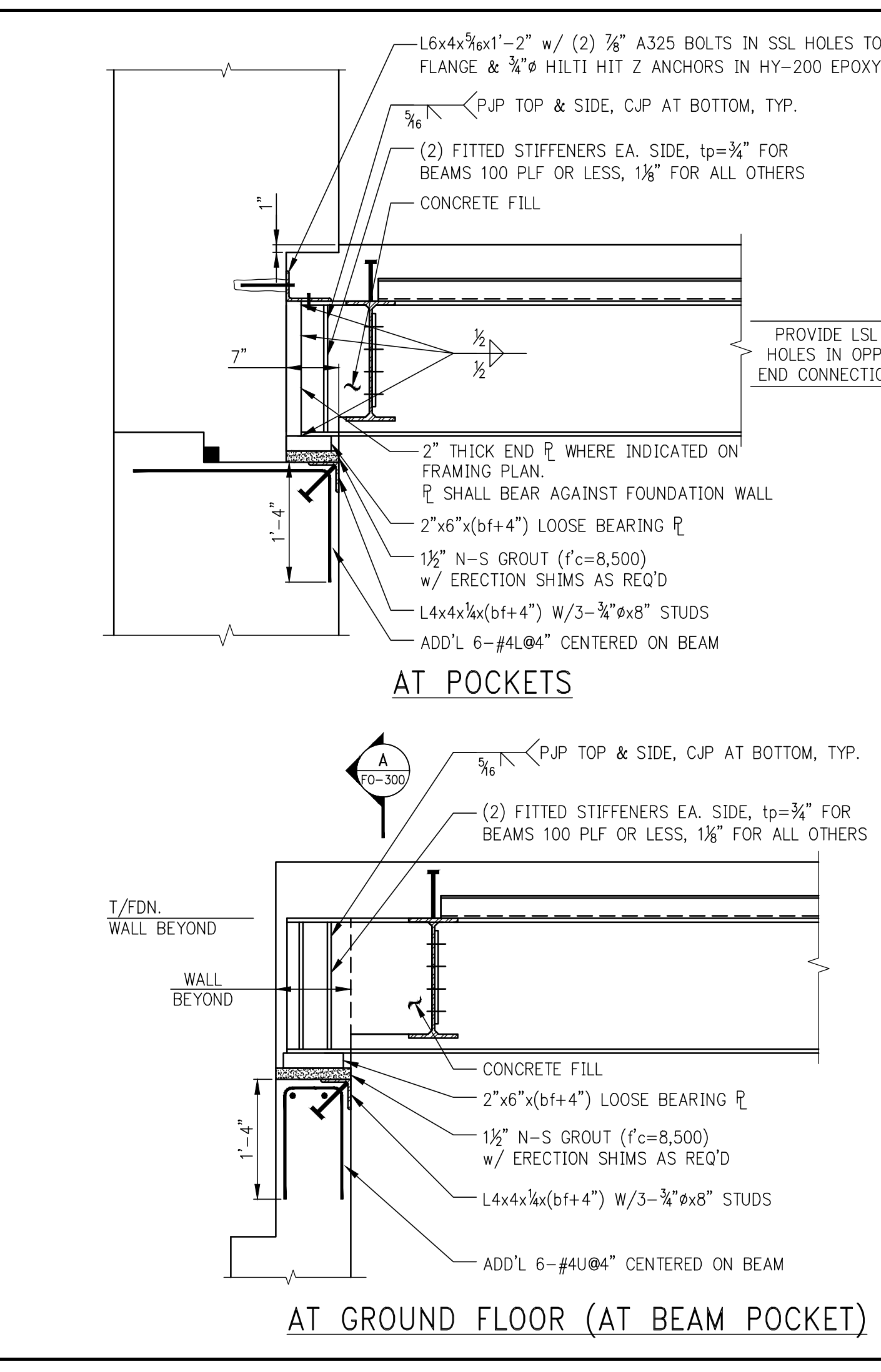
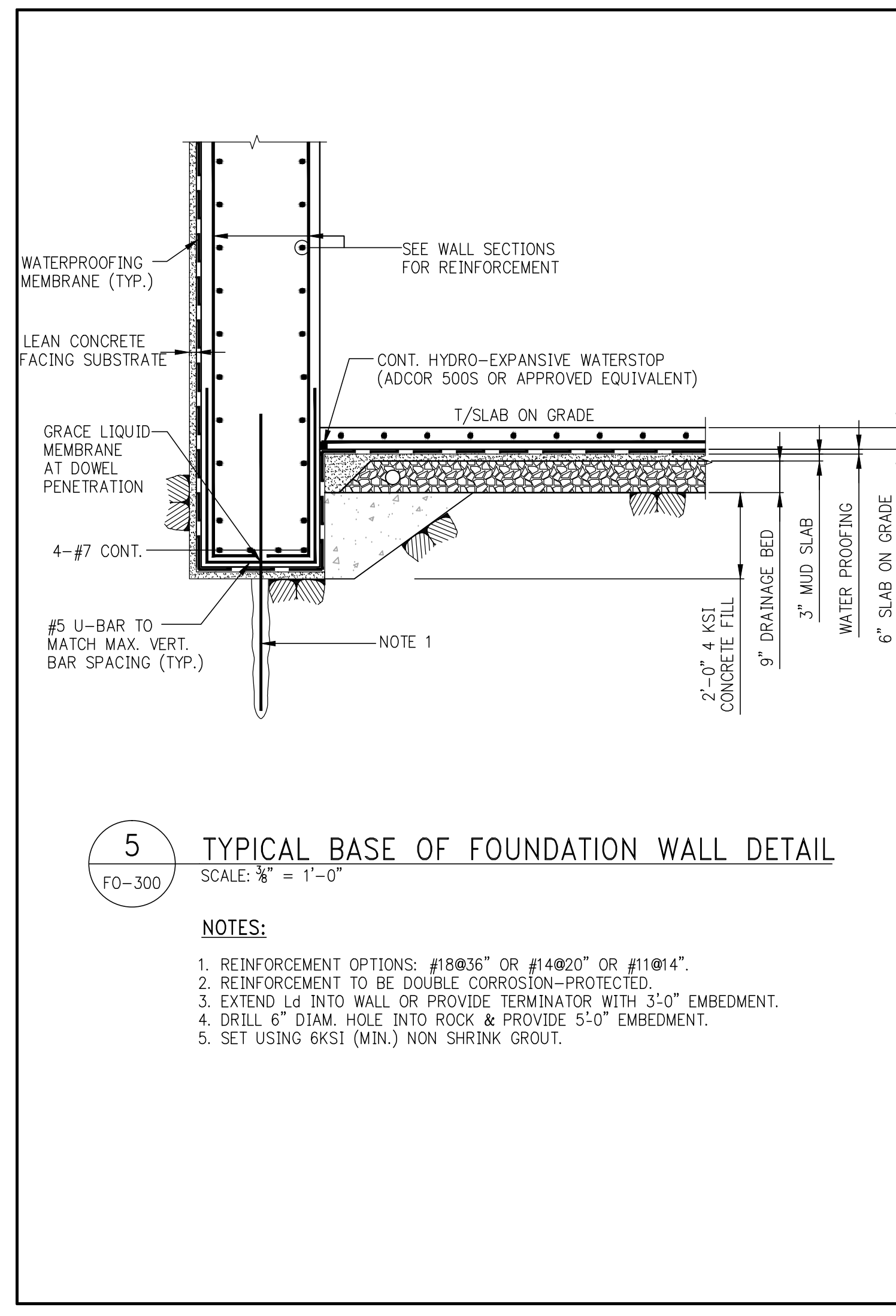
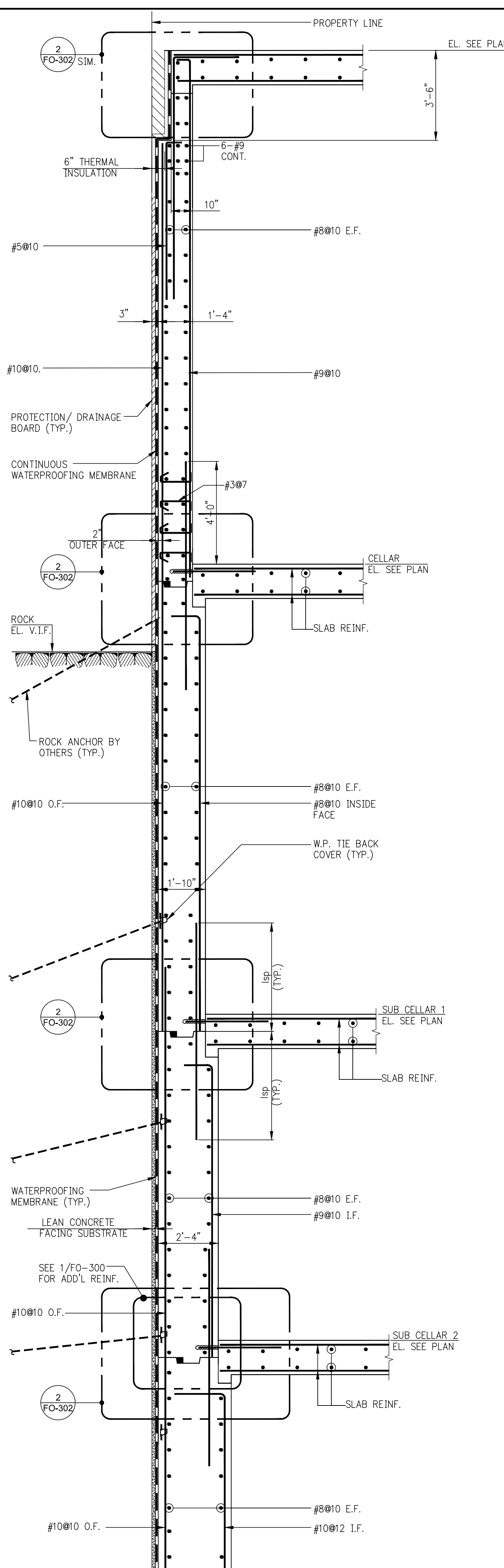
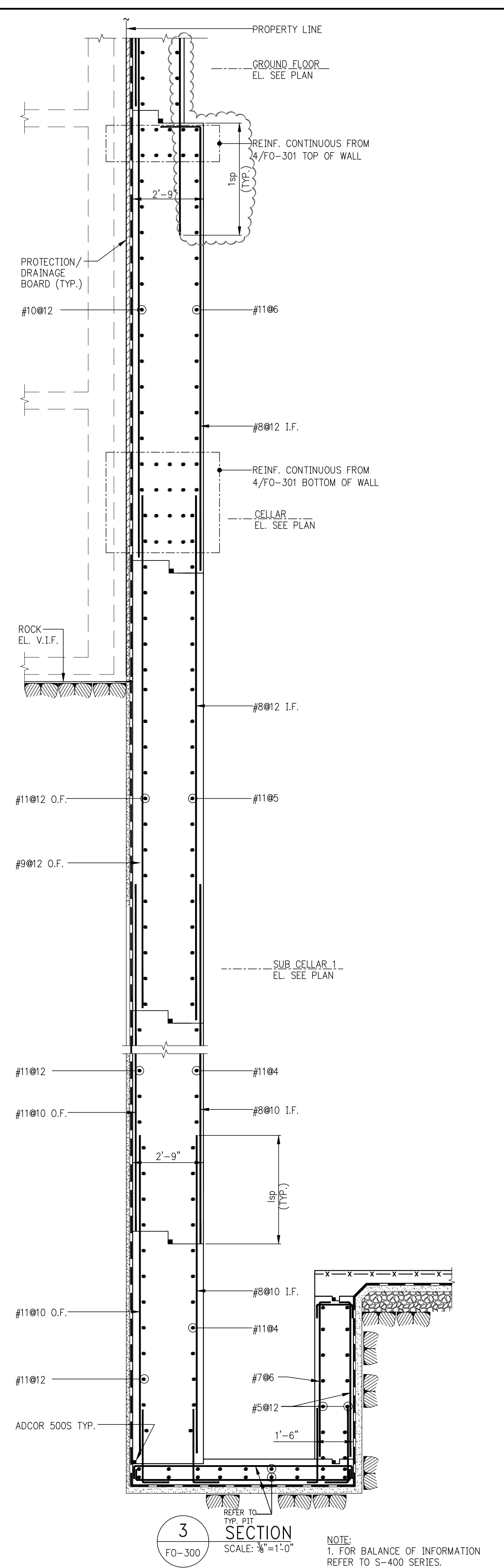
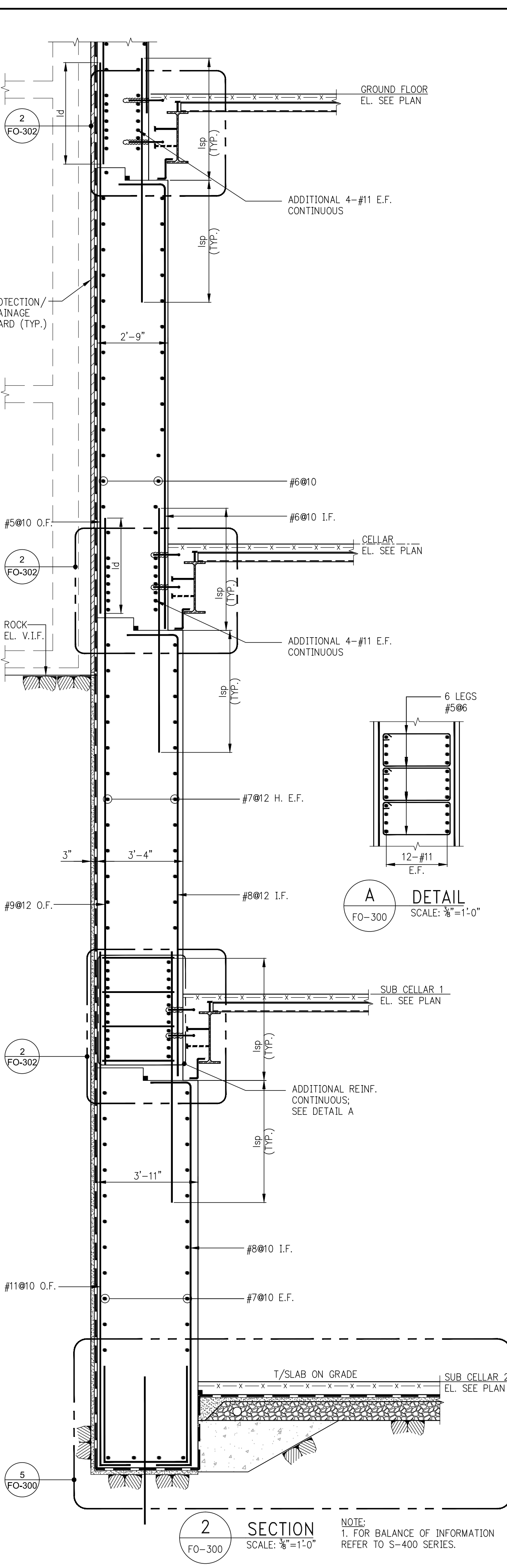
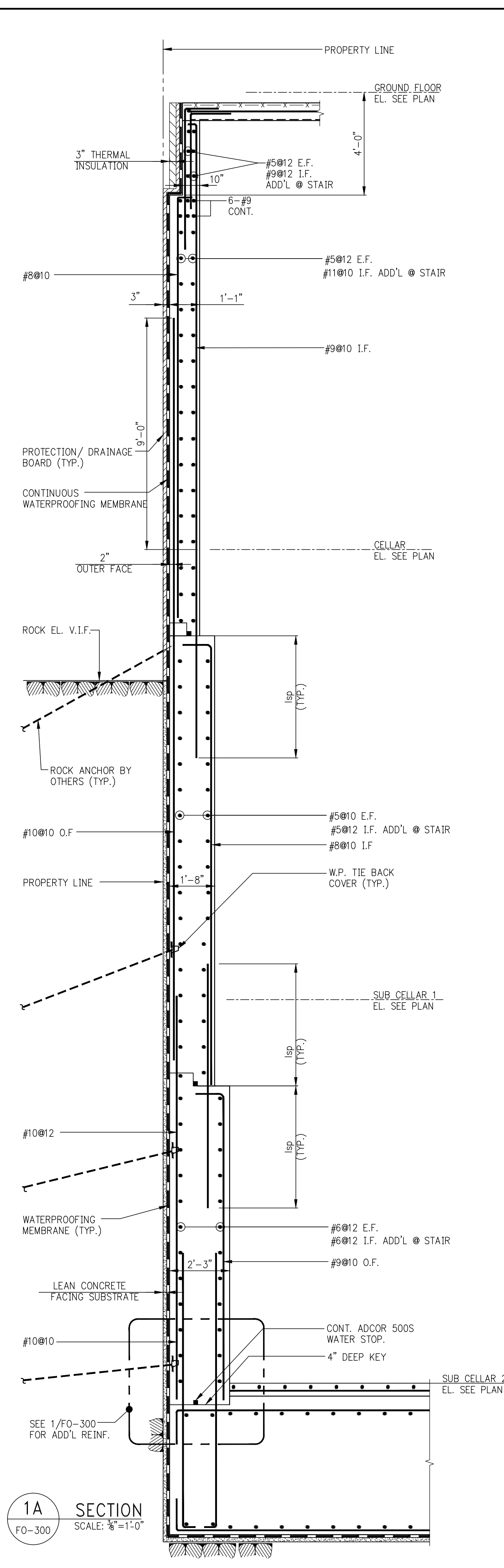
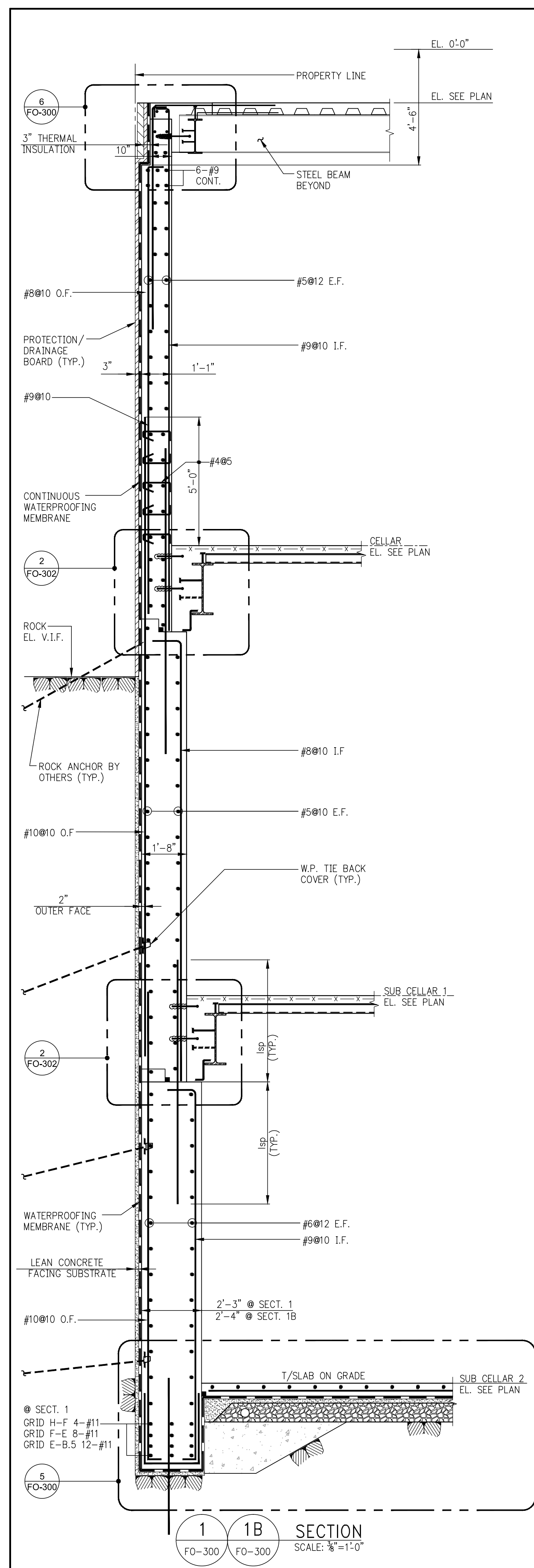
DOB EMPLOYEE STAMP:

DOB B-SCAN:

FILE NAME: C:\Users\jsteele\OneDrive\217 West 57th Street\217 West 57th Street.dwg

DATE PLOTTED: 03/31/2015

PLOT BY: jsteele



DEPT OF BLDGS 2153826

APP NUMBER

PROJECT NO.

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: 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

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 1818 FAX: 212 385 1911

CURTAINWALL CONSULTANT:

AJLP Consulting
40 North 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	06-12-2014
9	FOUNDATION 90% CD	07-01-2014
10	SK - 0004 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	12-10-2014
16	CD PROGRESS ISSUE 2	12-10-2014
17	DOB SUBMISSION	02-06-2015

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 8888
www.wspgroup.com/usa

PROJECT:

217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:

FOUNDATION SECTIONS 1

SEAL & SIGNATURE:

DATE: 03/31/14

PROJECT No: 2012185

DRAWN: CADD

CHK: Y.E.

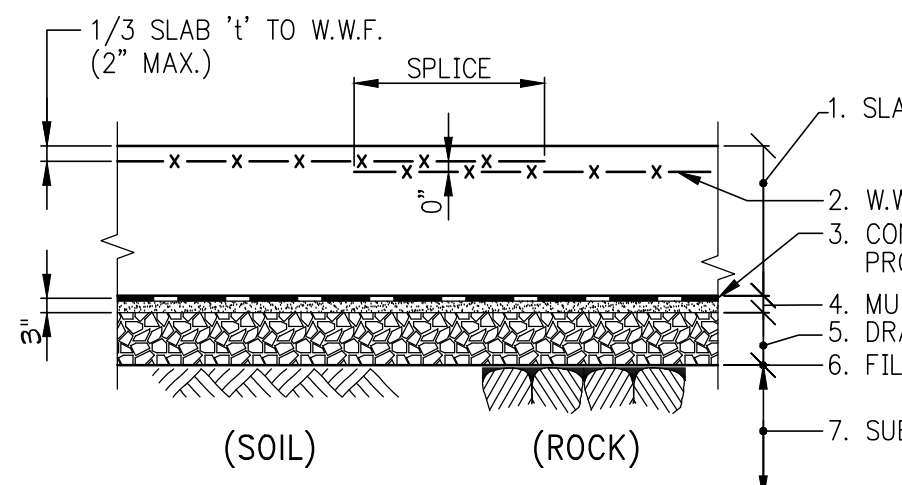
SCALE: AS INDICATED

DWG No: **FO-300.02**

DOB EMPLOYEE STAMP:

DOB No: 2012185

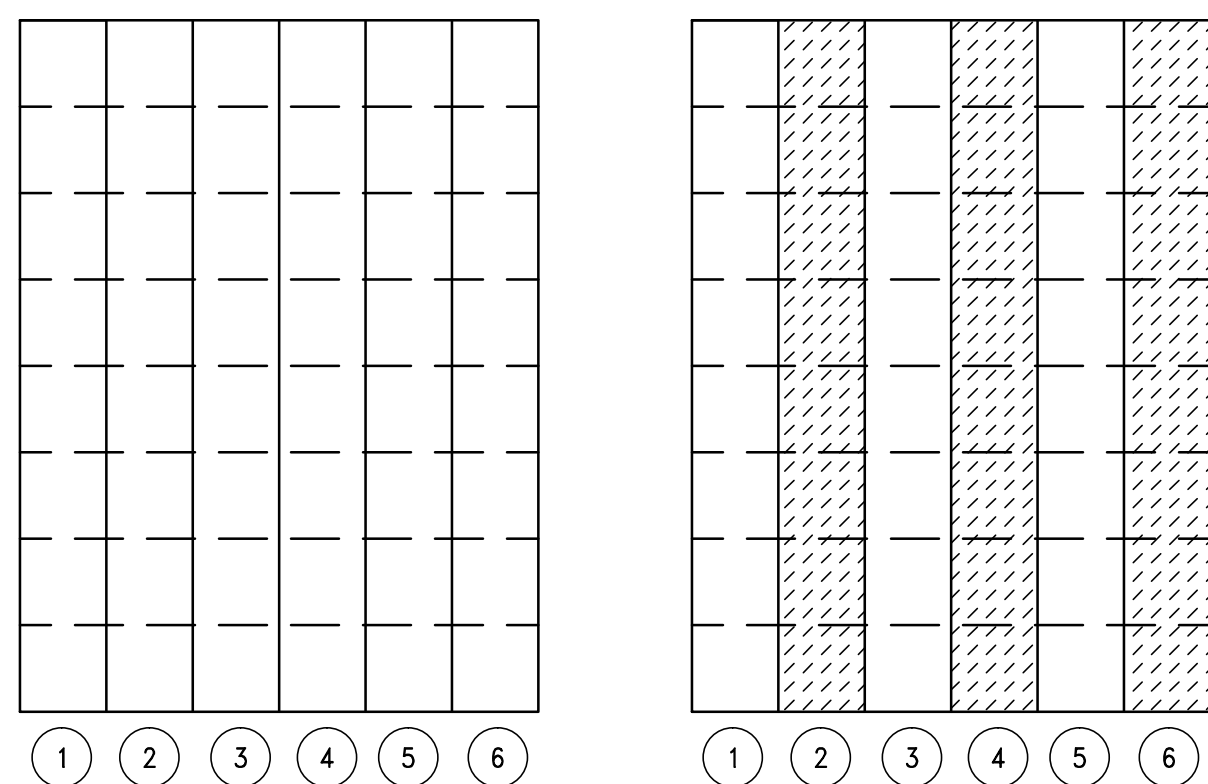
DOB 8-SCAN:



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 PREPARED 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.

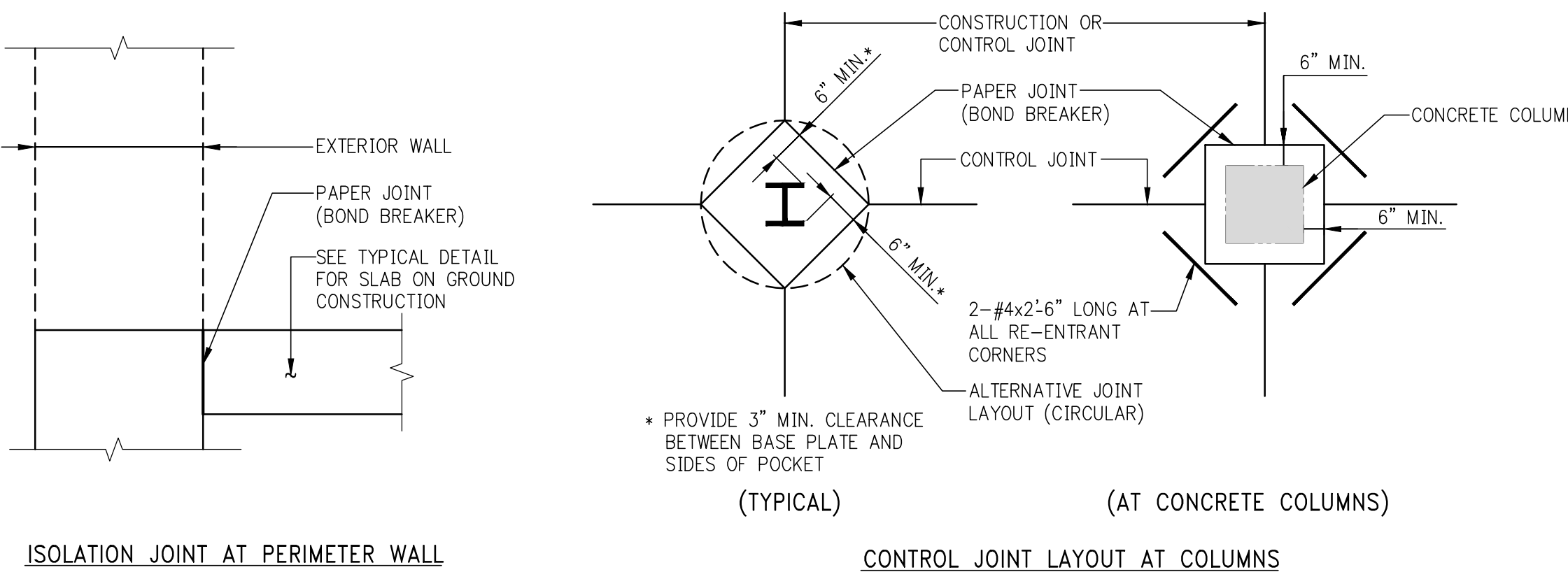
SLAB '1'	SLAB REINFORCEMENT (UNLESS OTHERWISE NOTED) W.W.F.
5"	6 x 6 - W2.1 x W2.1
6"-7"	8 x 6 - W2.9 x W2.9
8"-9"	6 x 6 - W4.0 x W4.0
10" OR MORE	REBAR PER DRAWINGS



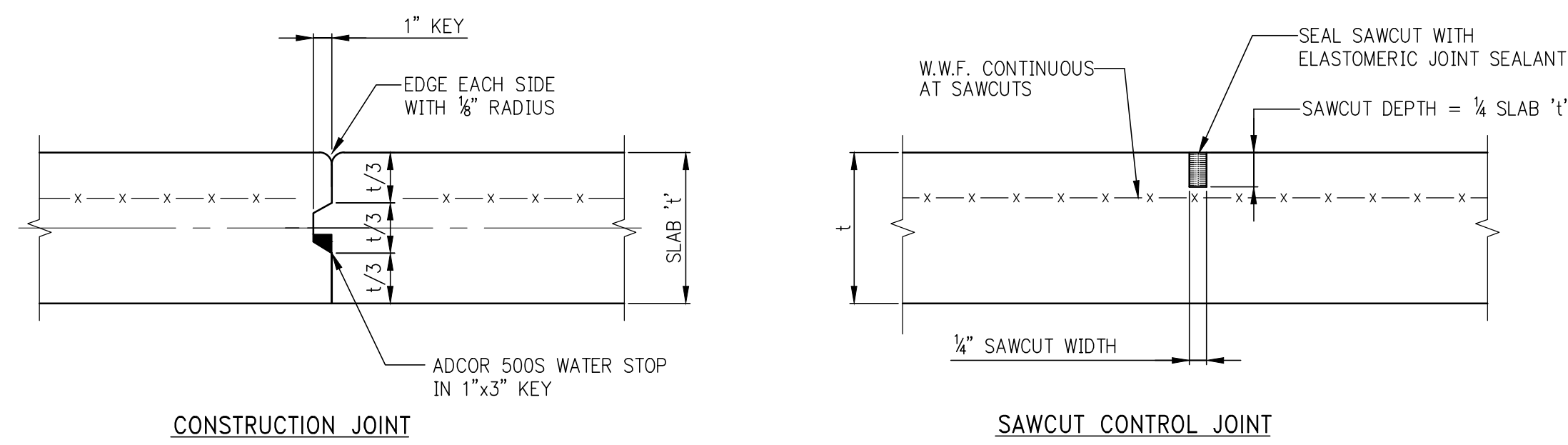
SUGGESTED SEQUENCE OF CASTING STRIPS

- 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.

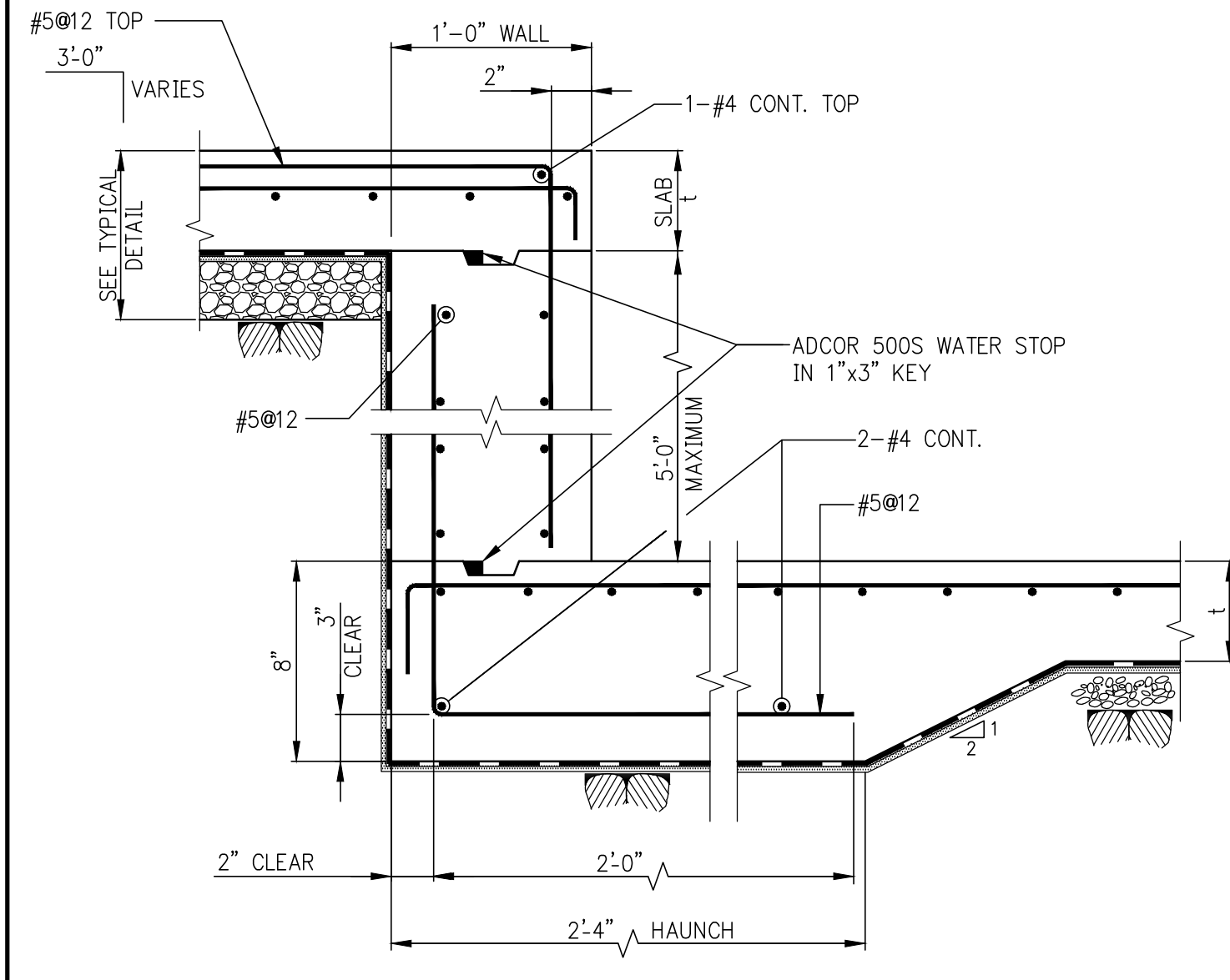
- LEGEND:
- STRIPS CAST FIRST
 - INFILL STRIPS
 - FORMED JOINTS
 - SAWCUT JOINTS



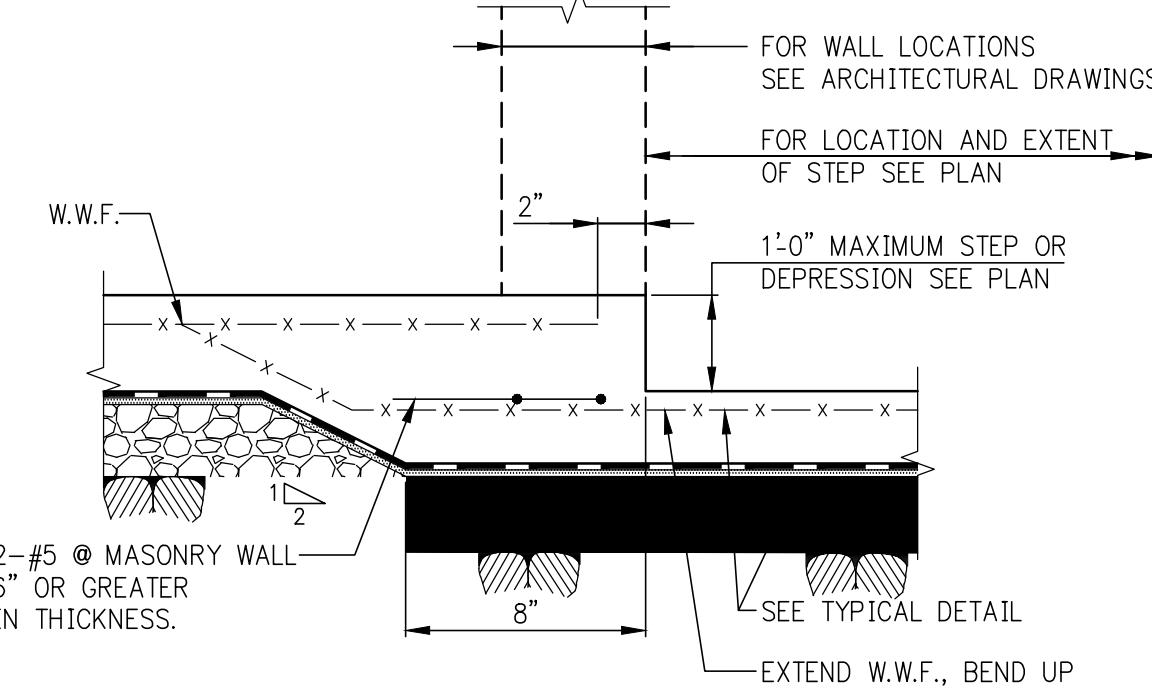
ISOLATION JOINT AT PERIMETER WALL



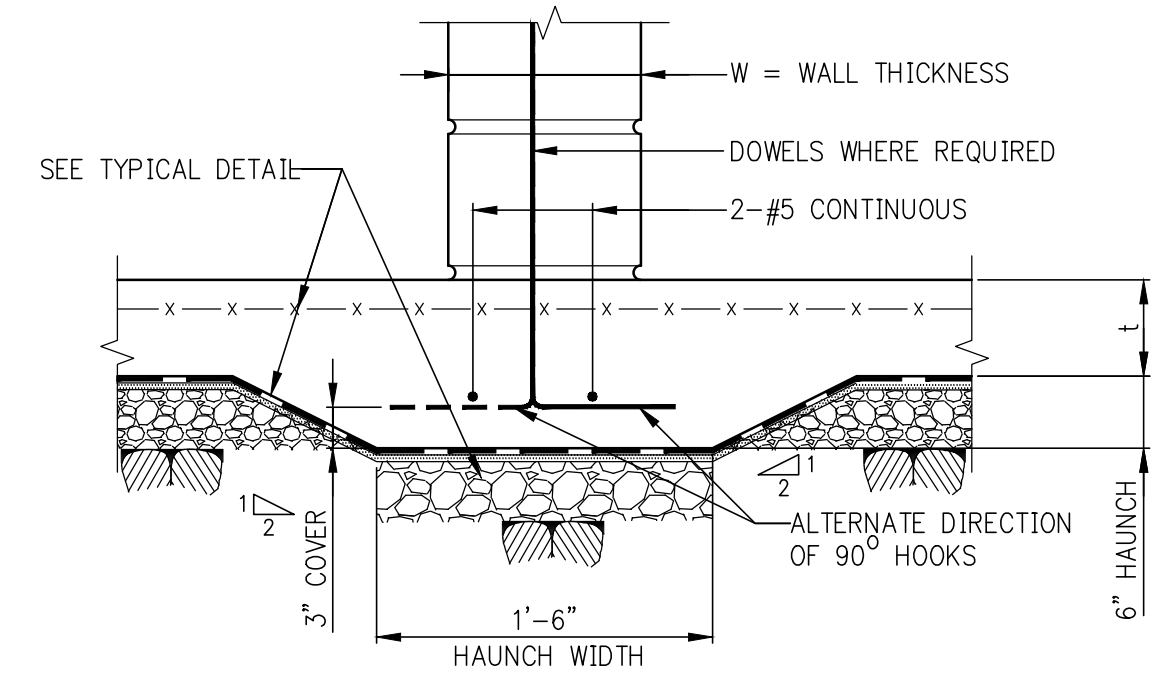
SLAB ON GROUND JOINT DETAILS



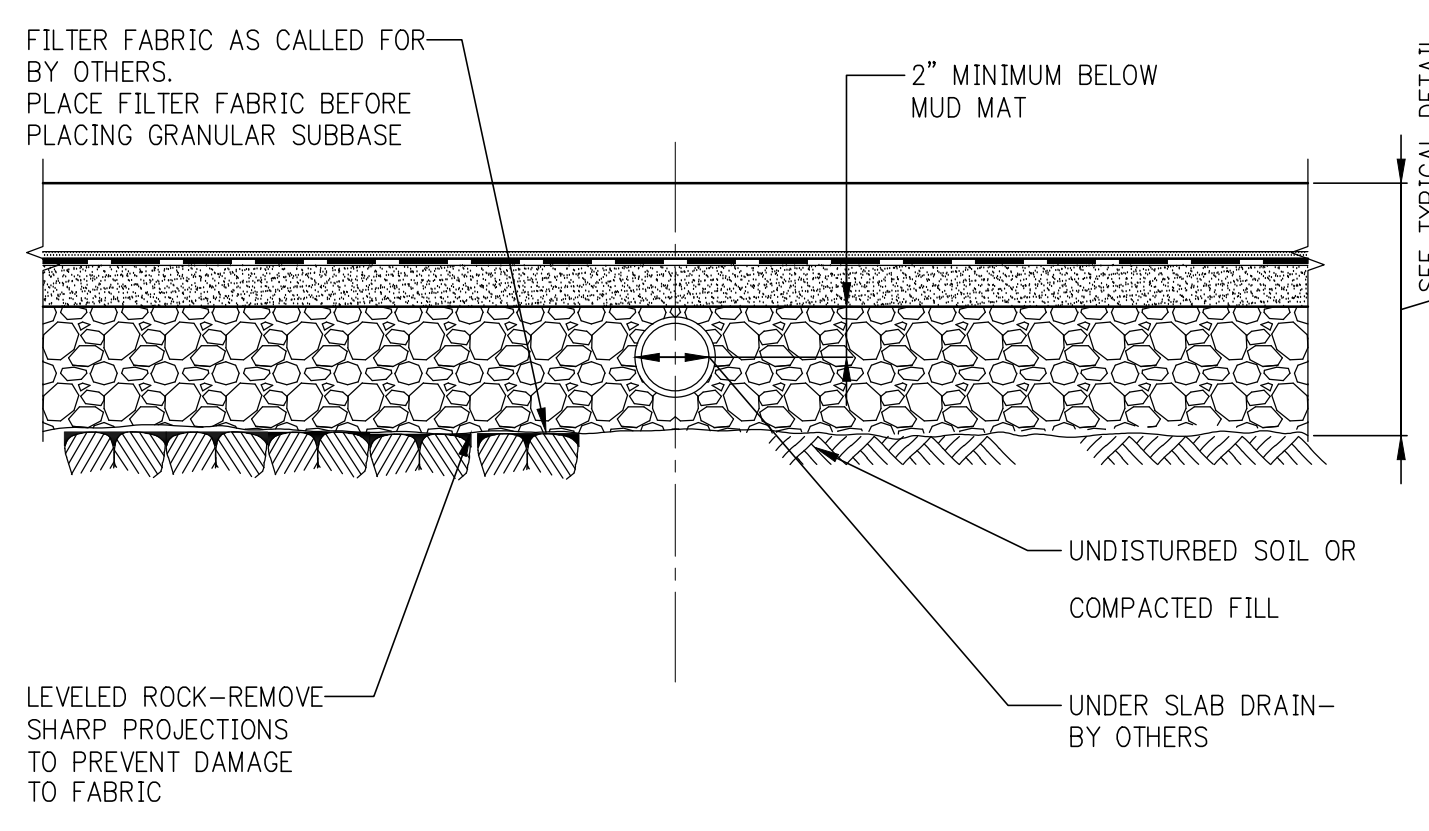
SLAB ON GROUND STEP OR DEPRESSION GREATER THAN 1'-0"



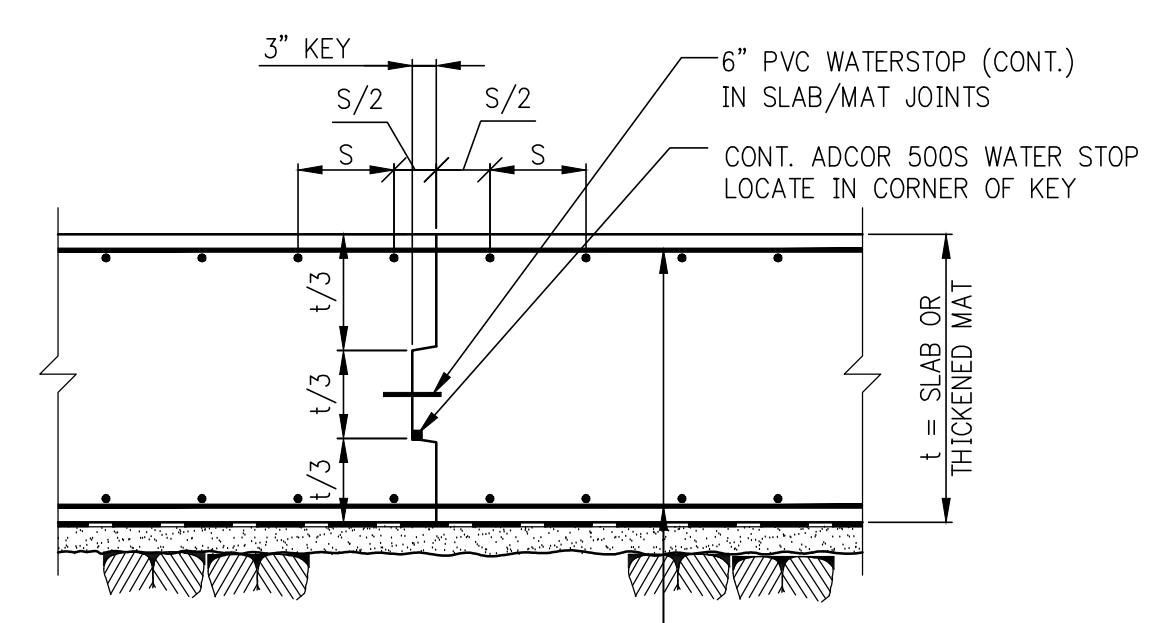
SLAB ON GROUND STEP OR DEPRESSION 1'-0" OR LESS



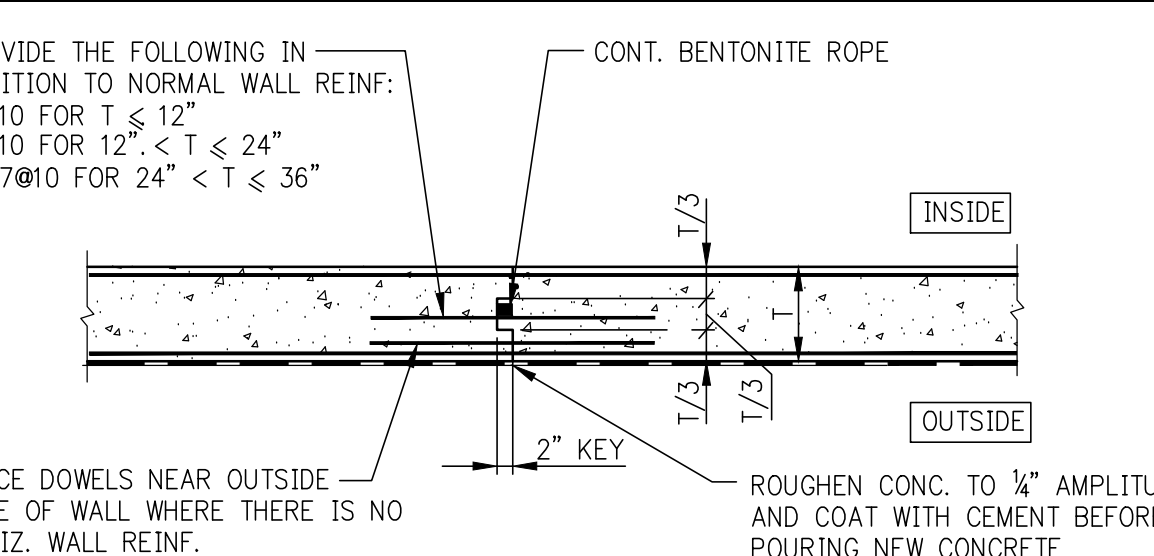
THICKENED SLAB AT MASONRY WALLS 6" THICK OR GREATER



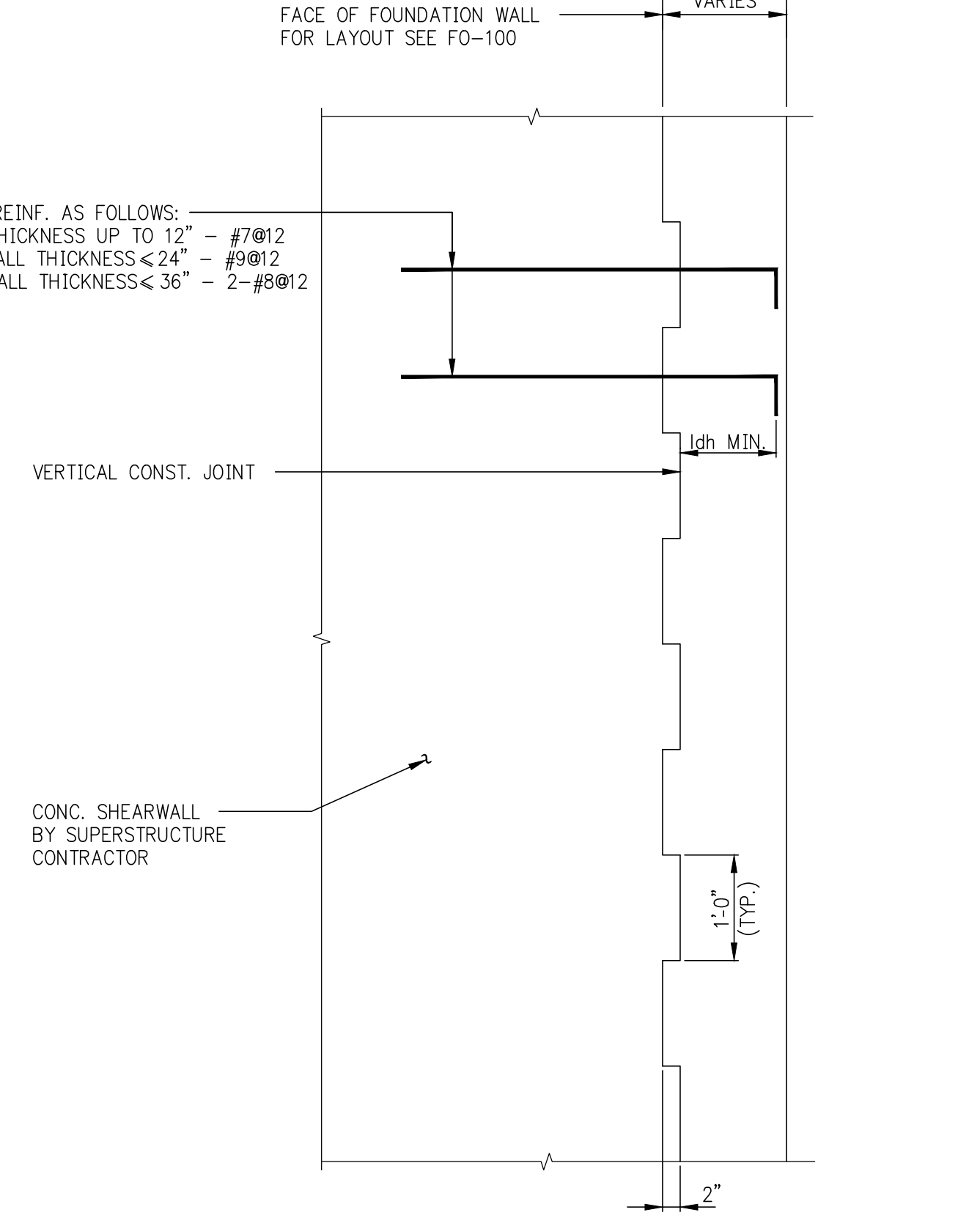
UNDER SLAB DRAIN



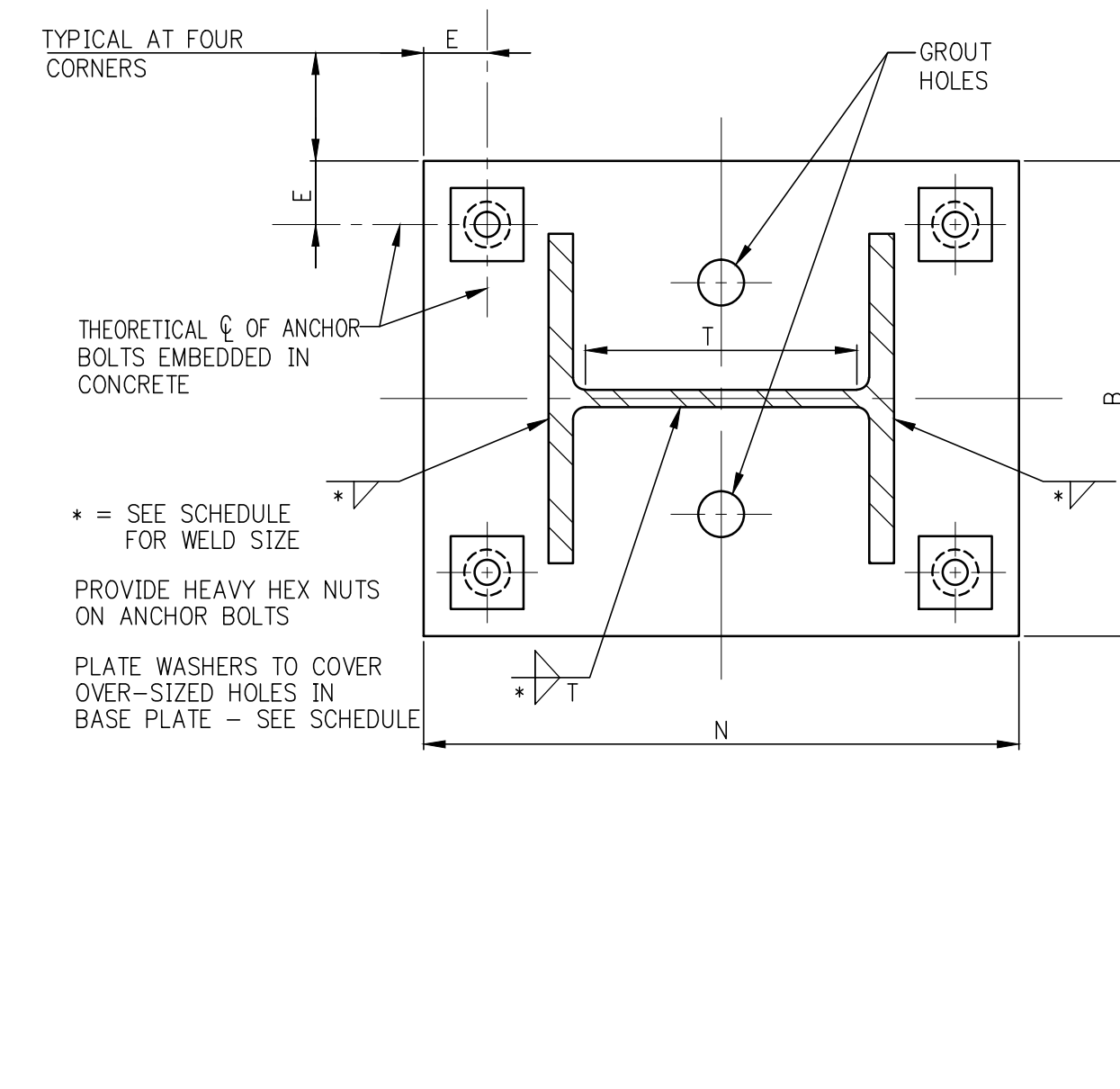
MAT FOUNDATION CONSTRUCTION JOINT



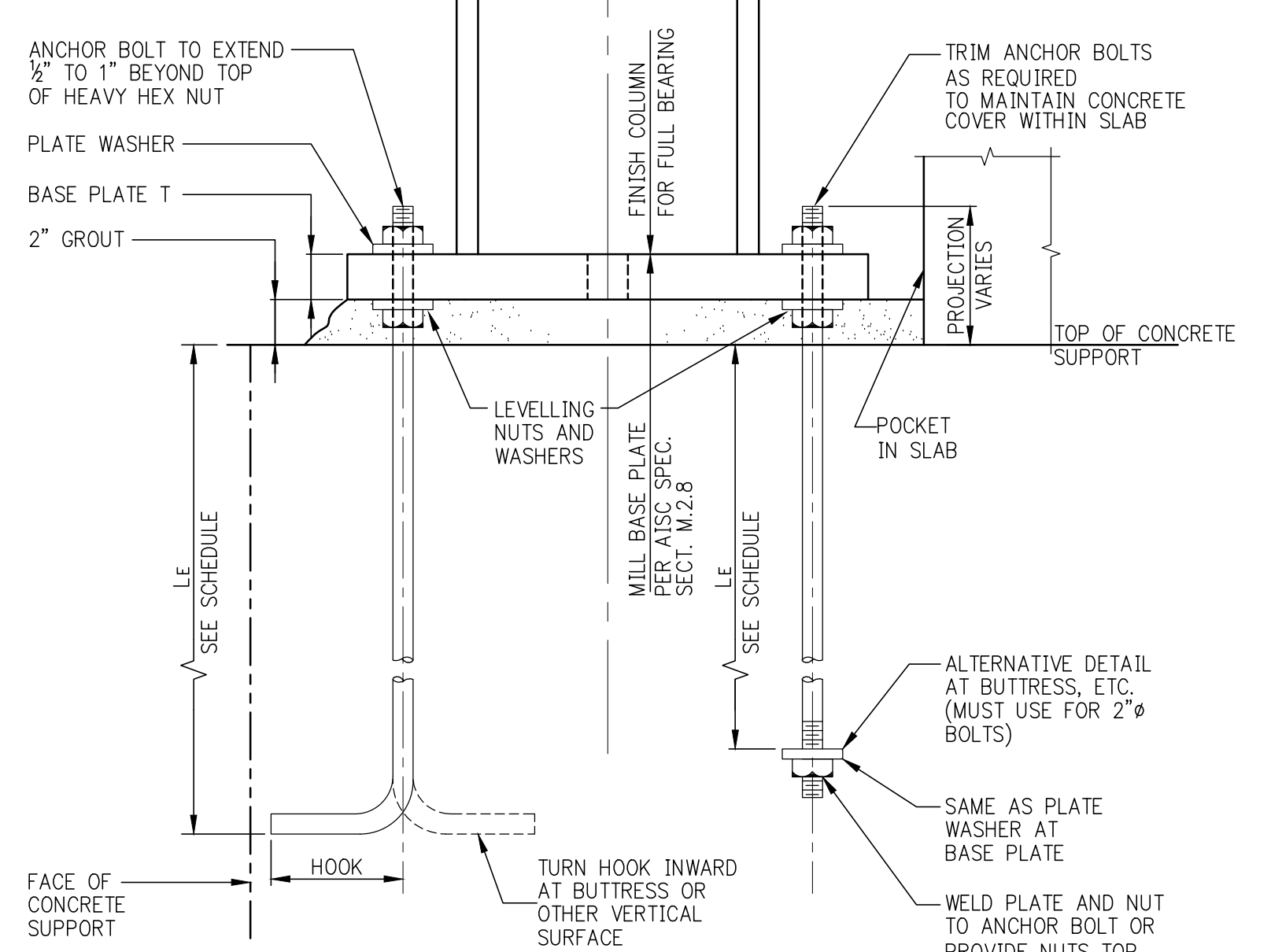
TYPICAL VERTICAL CONSTRUCTION JOINT IN FOUNDATION WALL



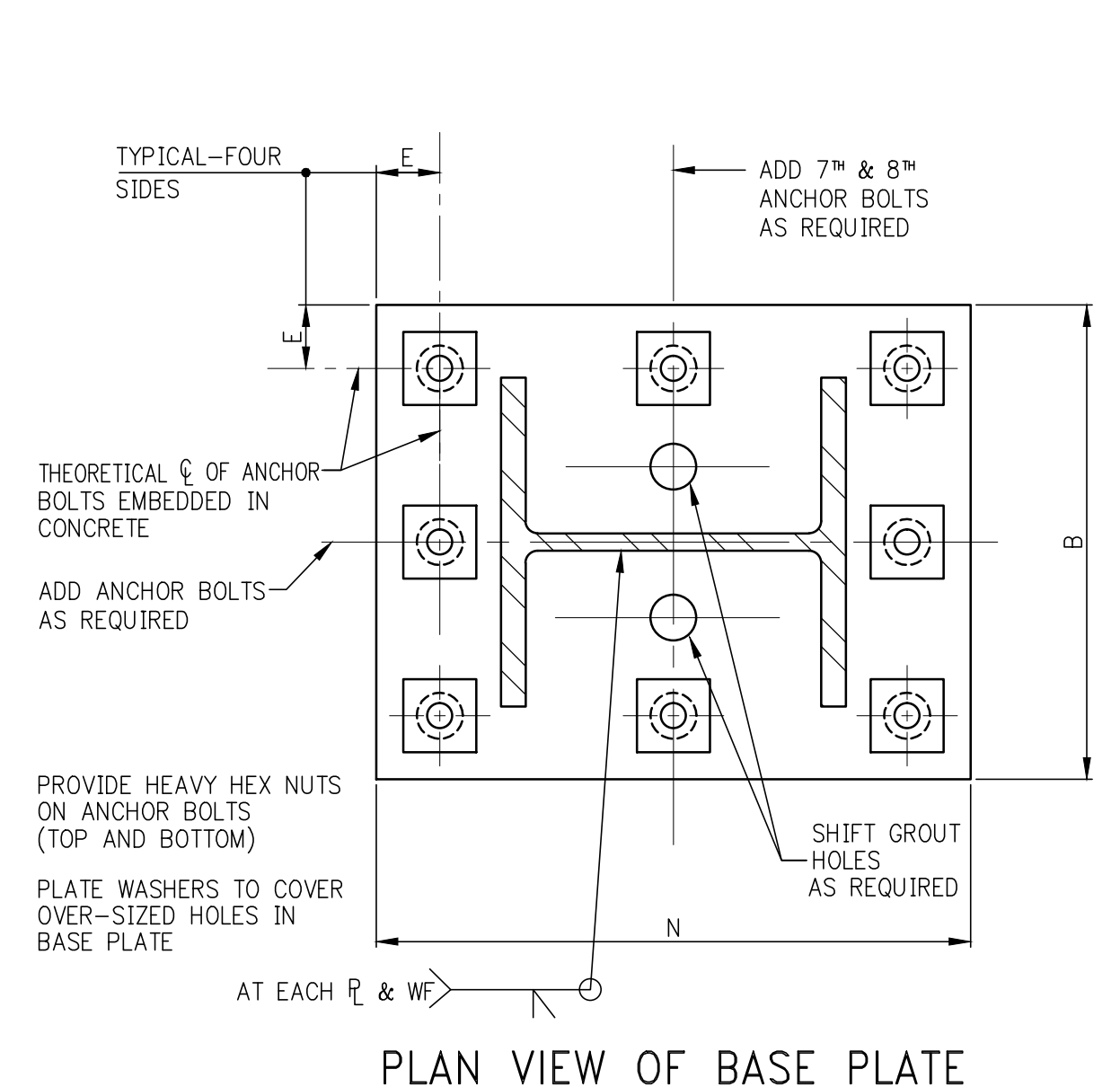
TYPICAL CONSTRUCTION JOINT SECTION IN FOUNDATION WALL



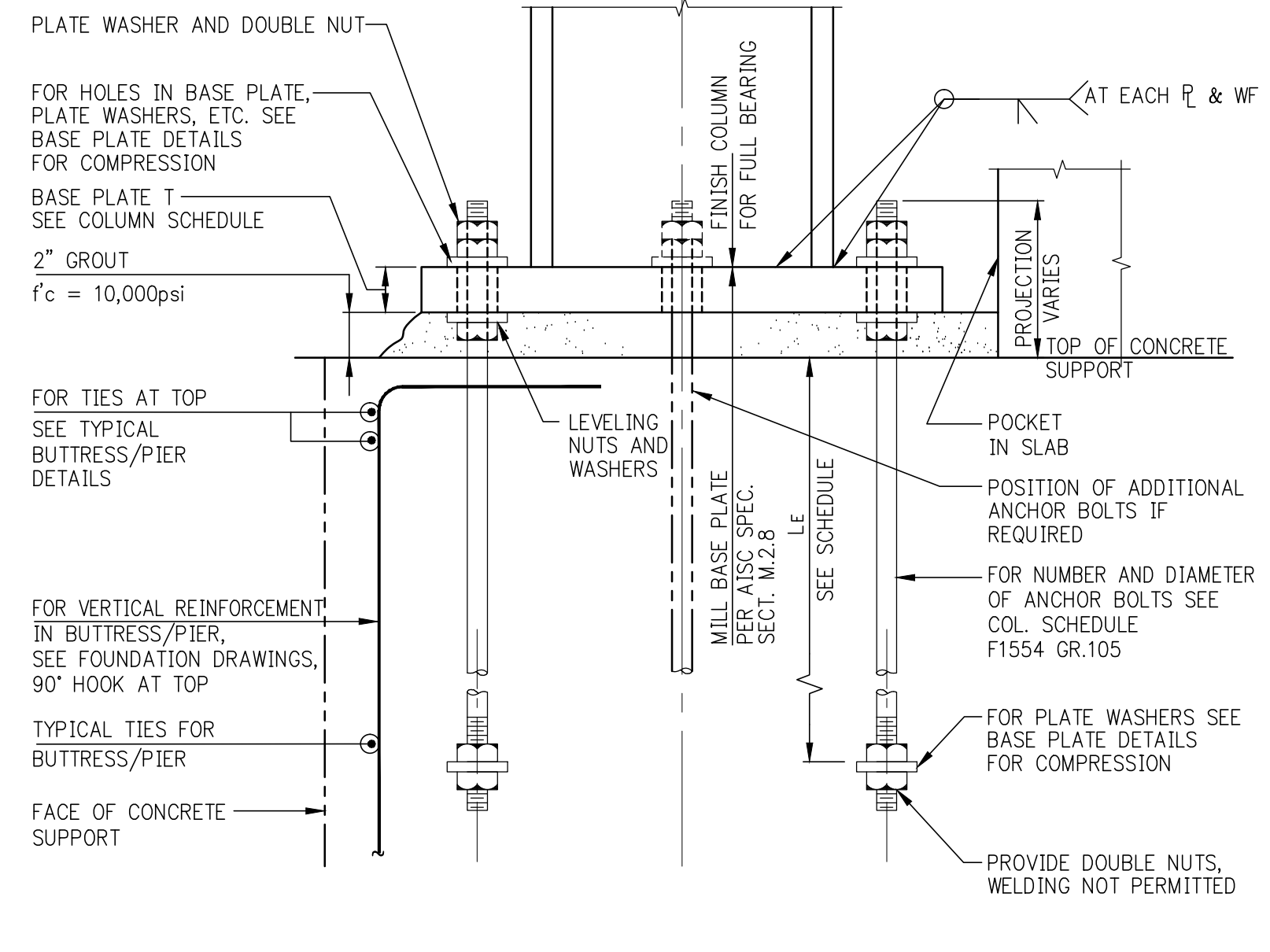
PLAN VIEW OF BASE PLATE AT COLUMN IN COMPRESSION ONLY



SECTION - COMPRESSION ONLY



PLAN VIEW OF BASE PLATE AT COLUMN IN TENSION



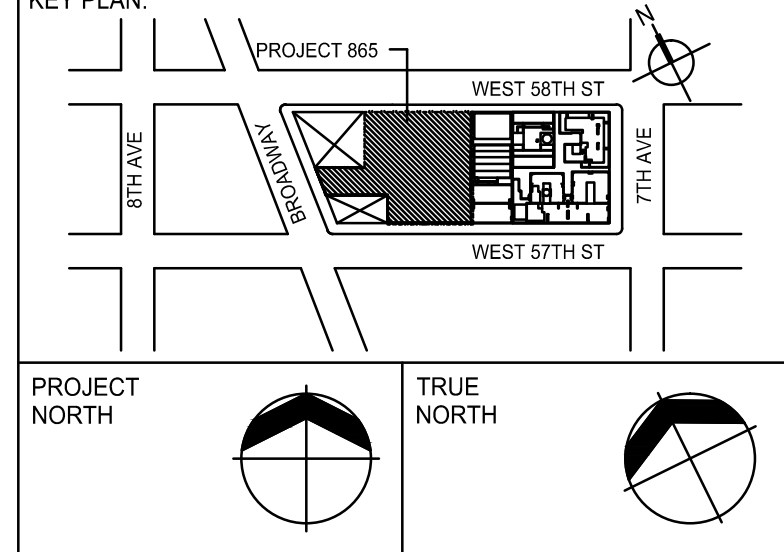
SECTION - COLUMN IN TENSION

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.



DEVELOPER: **EXTELL DEVELOPMENT COMPANY**
805 THIRD AVENUE, 7TH FLOOR
NEW YORK, NY 10022 USA
TEL: 212 512 6000 FAX: 212 512 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: 646 487 5501

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 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 1818 FAX: 212 385 1911

CURTAINWALL CONSULTANT: **AJLP Consulting**
40 Worth Street, Suite 805
New York, NY 10013
TEL: 212 757 6659 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	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

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.

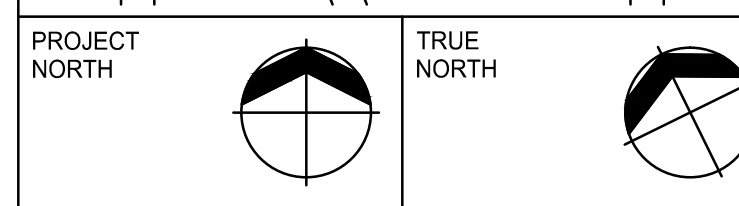
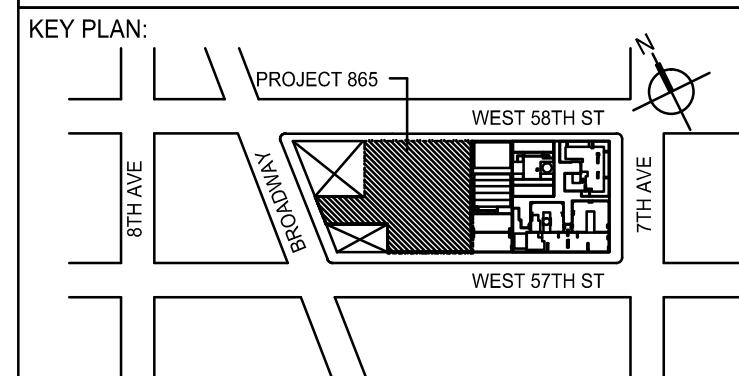
CONSULTANT: **WSP**
228 East 45th Street
New York, NY 10017
(212) 687-8888
www.wspgroup.com/usa

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

DRAWING TITLE: **TYPICAL FOUNDATION DETAILS 3**

SEAL & SIGNATURE: **STATE OF NEW YORK**
PROFESSIONAL ENGINEER
DATE: 03/01/14
PROJECT No: 2012186
DRAWN: CADD
CHK: Y.E.
SCALE: AS INDICATED
DWG No: **FO-202.02**

DOB EMPLOYEE STAMP: DOB PAGE No: of DOB 8-SCAN:



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:

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 37th Street, 8th Floor
New York, NY 10018-2727
TEL: 212 479 5400 FAX: 212 479 5444

CODE CONSULTANTS: **Construction Consulting Associates**
100 Church Street
New York, NY 10007
TEL: 212 385 1818 FAX: 212 385 1911

CURTAINWALL CONSULTANT: **AJLP Consulting**
40 Worth Street, Suite 605
New York, NY 10013
TEL: 212 757 8659 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	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	SE ZONE STEEL BID	08-20-2014
11	STRUCTURAL STEEL BID	09-15-2014
12	CD PROGRESS ISSUE 1	10-15-2014
13	ISSUED FOR CONSTRUCTION UP TO GROUND FLOOR ONLY	10-17-2014
14	DOB SUBMISSION	12-19-2014
15	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) 687-8888
www.wspgroup.com/usa

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

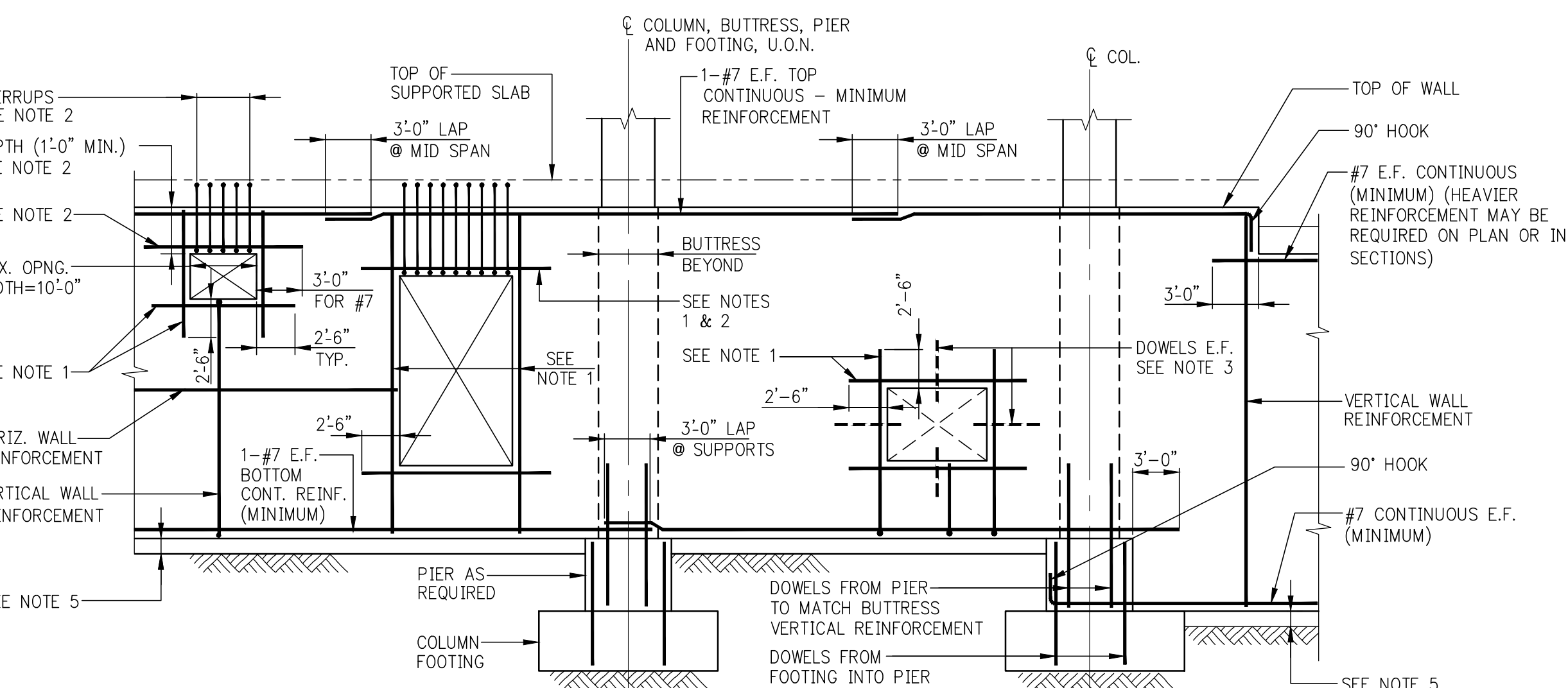
DRAWING TITLE:

TYPICAL FOUNDATION DETAILS 2

SEAL & SIGNATURE: DATE: 03/31/14
PROJECT No: 2012186

DRAWN: CADDO REV: **15**
CHK: Y.E.
SCALE: AS INDICATED
DWG No: **FO-201.02**

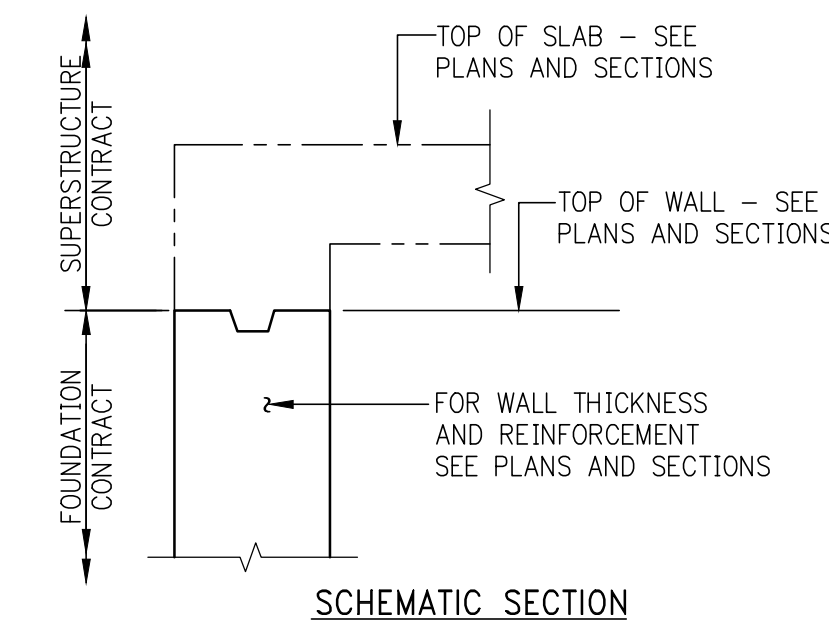
DOB PAGE No: of
DOB EMPLOYEE STAMP: of
DOB 8-SCAN:



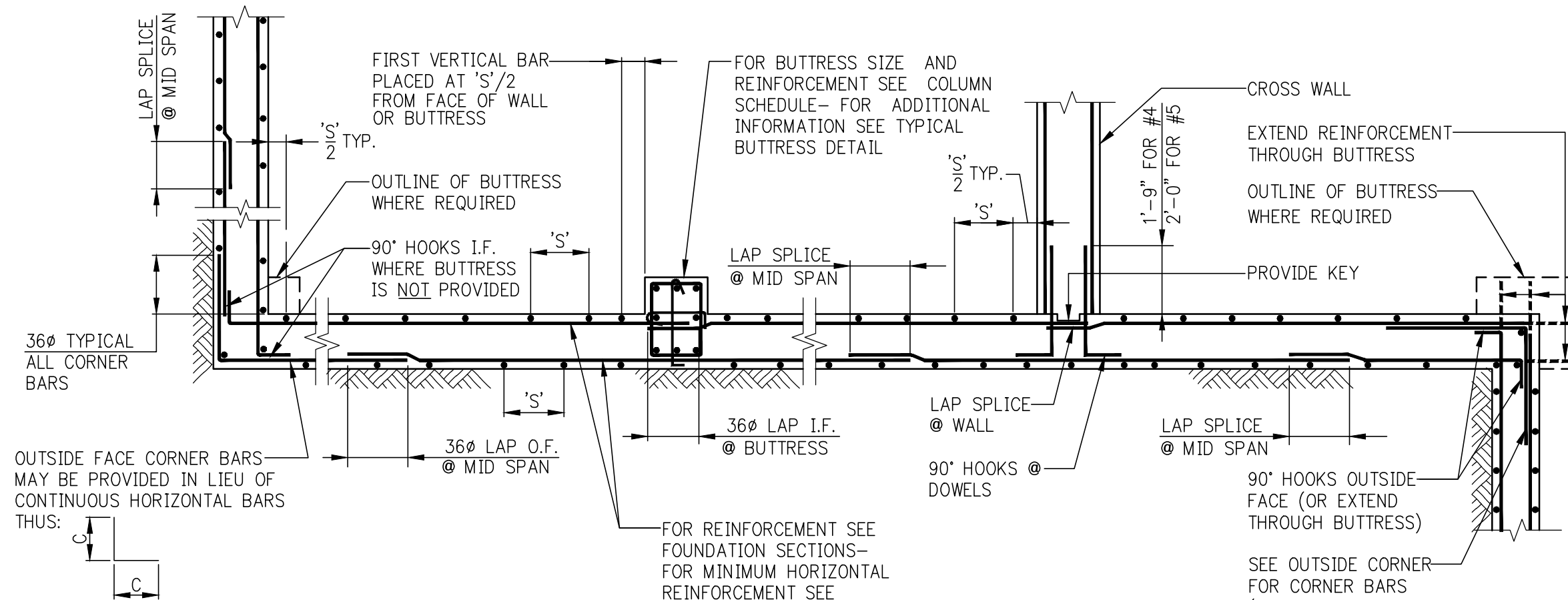
FOUNDATION WALL ELEVATION SHOWING REINFORCEMENT AT OPENINGS AND MISCELLANEOUS DETAILS

NOTES:

1. ADD #5 BARS (HORIZ. & VERT.) AT ALL FOUR EDGES OF OPENINGS. AREA OF ADDED BARS AT EACH EDGE TO BE EQUAL TO ONE HALF OF AREA OF INTERRUPTED BARS IN THE CORRESPONDING DIRECTION. PROVIDE A MINIMUM OF 1-#5 E.F.
2. WHERE TOP EDGE OF OPENING IS LESS THAN 2'-6" FROM TOP OF WALL ADD 1-#7 E.F. (IN LIEU OF #5) OVER OPENING. PROVIDE #4 L3 STIRRUPS @ 9" - EXTEND INTO SLAB WITH 2" COVER AT TOP OF STIRRUPS.
3. AT UTILITY ACCESS OPENINGS WHICH ARE TO BE FILLED IN WITH CONCRETE, PROVIDE DOWELS PROJECTING 1'-0" INTO OPENING, EITHER EXTEND HORIZONTAL AND VERTICAL WALL REINFORCEMENT, OR ADD #4 @ 12" E.F. DOWELS x2'-6" LONG.
4. FOR ACTUAL OPENING SIZES AND LOCATIONS, SEE PLANS, SECTIONS, ARCHITECTURAL, DOWLS, AND MEP DWGS. SUBMIT SHOP DRAWINGS WITH WALL ELEVATIONS SHOWING ALL OPENINGS AND REINFORCEMENT.
5. PROVIDE FOOTING OR CONCRETE MUD SLAB TO SUPPORT WALL FORMS AND WET CONCRETE. SEE FOUNDATION SECTIONS ON FS-300 SERIES DRAWINGS FOR ADDITIONAL DETAILS.



SCHEMATIC SECTION AT TOP OF WALL

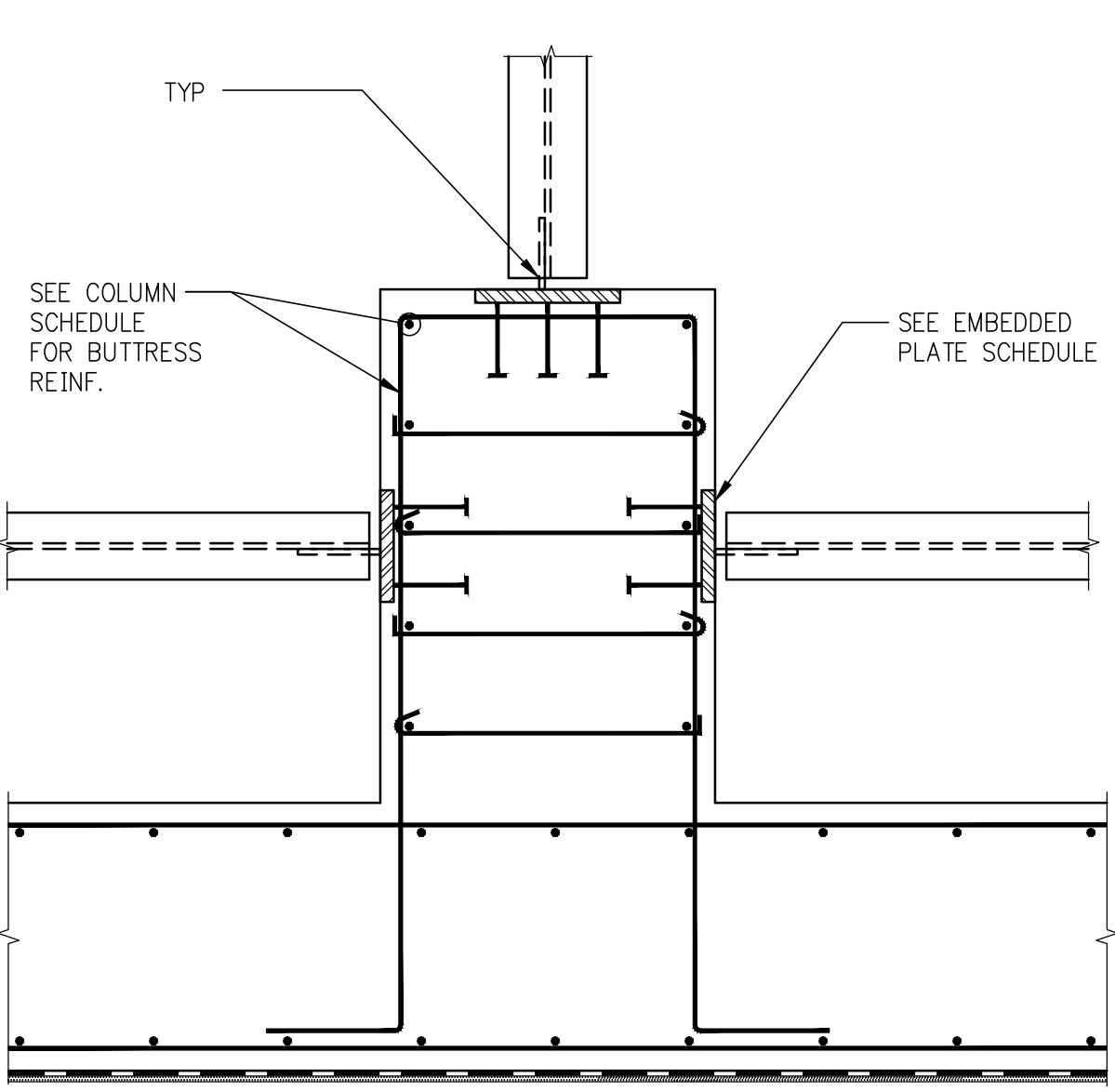


HORIZONTAL SECTION SHOWING PLACEMENT OF FOUNDATION WALL REINFORCEMENT

T = WALL THICKNESS	HORIZONTAL REINFORCEMENT
UP TO 10"	#4@18 E.F.
11" TO 12"	#4@16 E.F.
13" TO 16"	#4@12 E.F.
17" TO 20"	#4@10 OR #5@15 E.F.
21" TO 22"	#4@9 OR #5@12 E.F.
23" TO 24"	#4@8 OR #5@10 E.F.
OVER 24"	SEE PLANS AND SECTIONS

MINIMUM HORIZONTAL WALL REINFORCEMENT REQUIRED AT EACH FACE

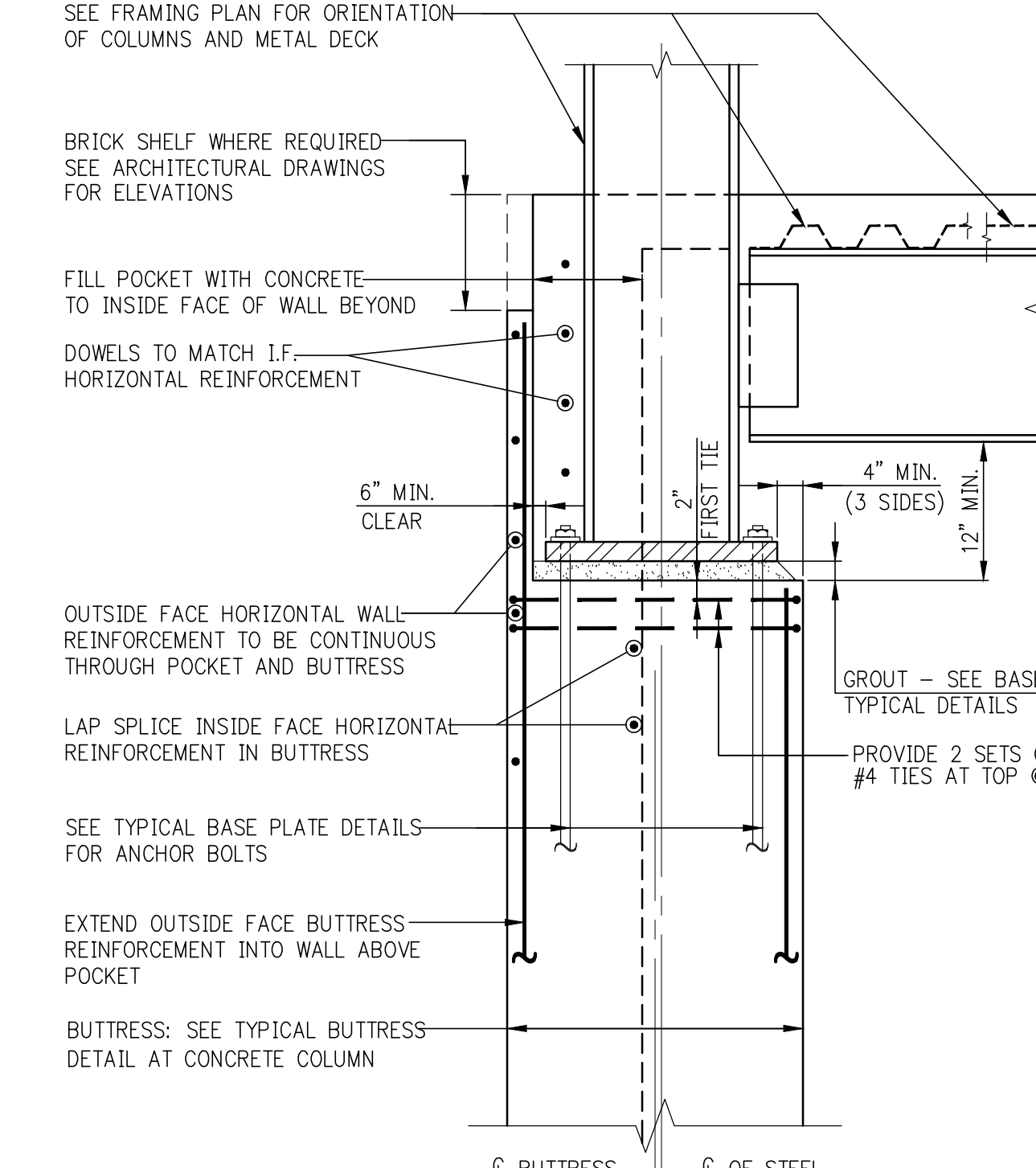
NOTE: VERTICAL CONSTRUCTION JOINT IN WALL IS NOT SHOWN HERE - SEE TYPICAL CONSTRUCTION JOINT DETAIL.



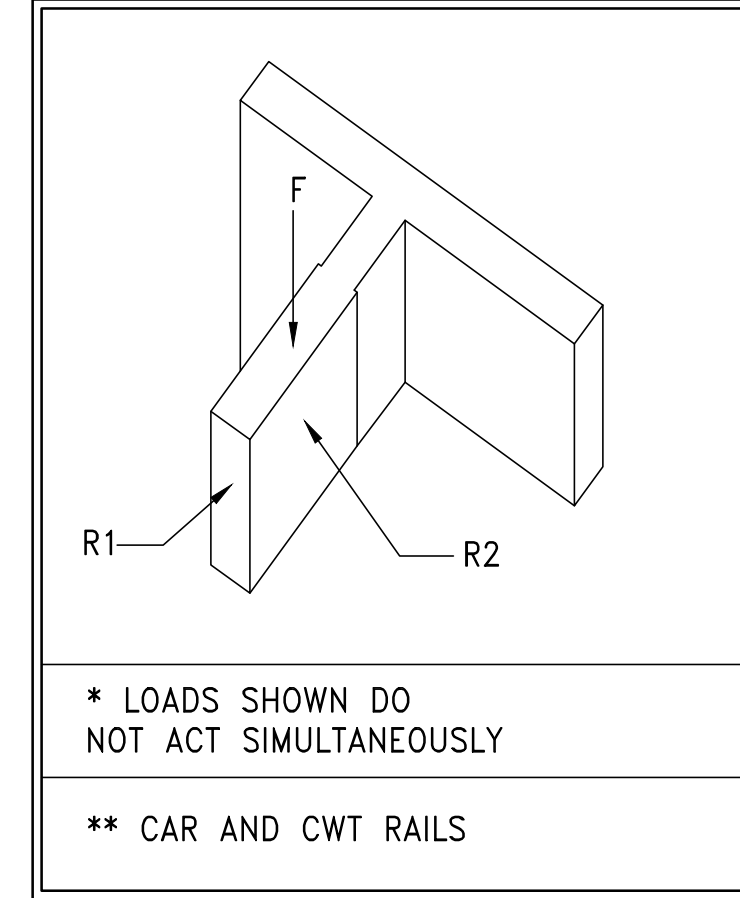
TYPICAL DETAIL OF EMBEDDED PLATE IN BUTTRESS (PLAN VIEW)

BEAM	PLATE DIMENSIONS B(h) x H (in)	STUD PATTERN VERT. x HORIZ.	STUD SPACING VERT. x HORIZ.
W2	10 x 15	3 x 2	6 x 7
W4	10 x 21	4 x 2	6 x 7
W6	13 x 18	3 x 3	6 x 5
W8	13 x 18	3 x 3	6 x 5
W21	15 x 21	4 x 4	6 x 5
W24	15 x 27	5 x 4	6 x 5

EMBEDDED PLATE SCHEDULE



BUTTRESS AT STEEL COLUMN



RESIDENTIAL PASSENGER ELEVATORS				
PIT AND RAIL LOADS		R 1-3	R 4	S 1
SEISMIC		S2	S2	S2
GLASS LOAD RATING		A	C3	A
RAIL WEIGHT/SIZE		15	18.5	18.5
CAR BUFFER REACTION	A	72.0K	108.0K	78.3K
CWT BUFFER REACTION	B	65.0K	92.0K	63.3K
WEIGHT ONE STACK CAR RAIL		38280#	52200#	4500#
WEIGHT ONE STACK CWT RAIL		38280#	52200#	3000#
UP PULL ON COMPENSATOR	C	56.0K	75.5K	---
	Fcwt	29.0K	43.5K	35.0K
	Fcwt	---	---	---
NORMAL FORCES	R1	800#	1000#	800#
	R2	200#	1400#	500#
SEISMIC FORCES	R1	2100#	2900#	2200#
	R2	1100#	1500#	1200#
		14"	6"	14"

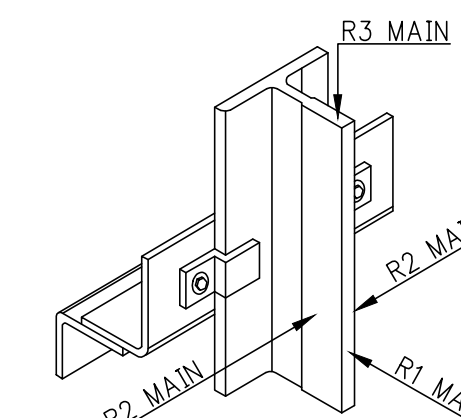
MAX VERT SPAN GUIDE RAIL SUPPORT

RAIL SUPPORT POINTS SHALL HAVE A MAX DEFLECTION OF 1/8" WHEN ACTED UPON BY FORCES R1 AND R2

1/8" WHEN ACTED UPON BY SEISMIC FORCES R1 AND R2

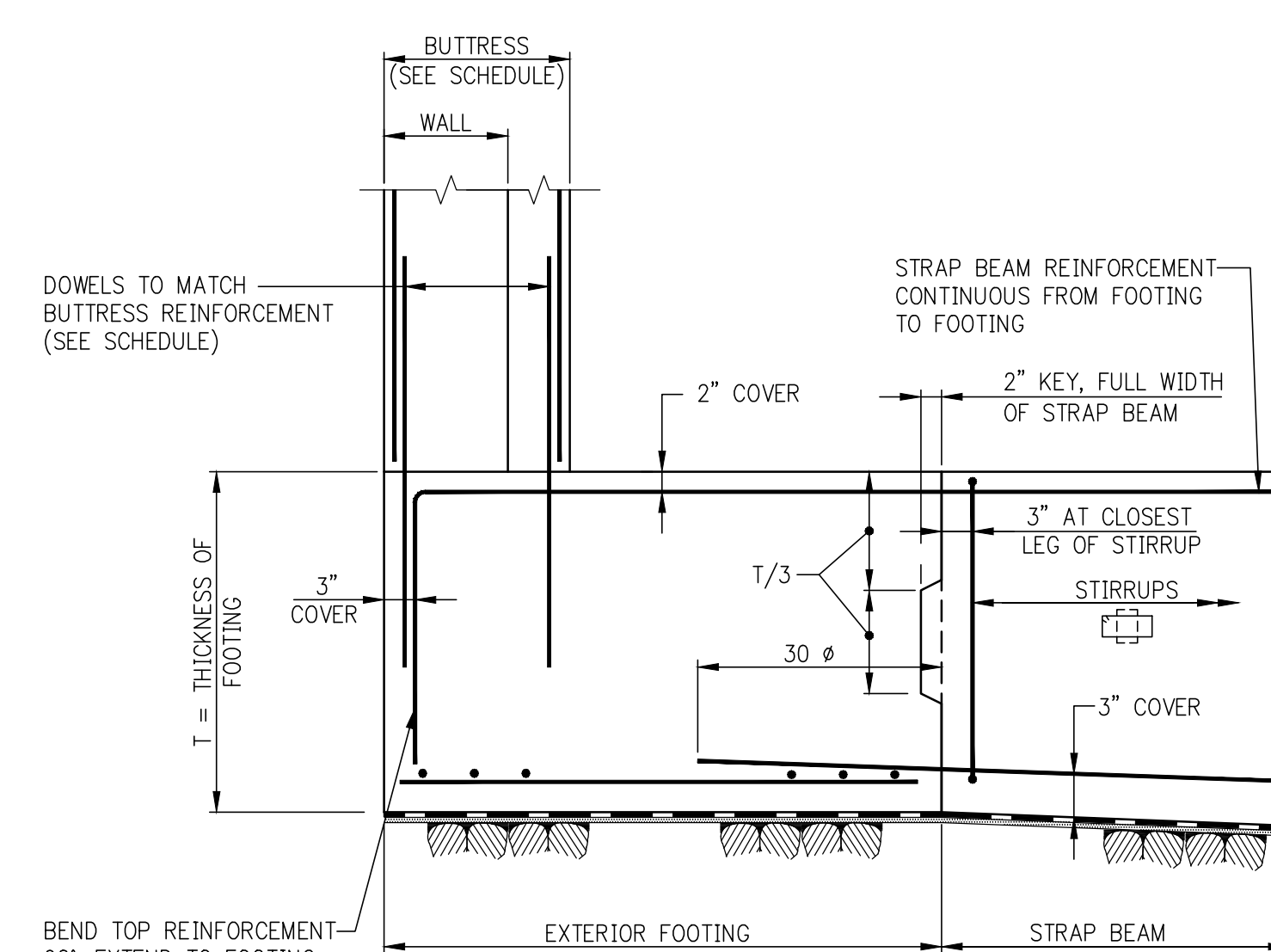
ELEVATOR PIT AND RAIL LOADS

NOTE: 1. FOR ELEVATOR INFORMATION REFER TO VDA DRAWINGS DATED 01/28/2014



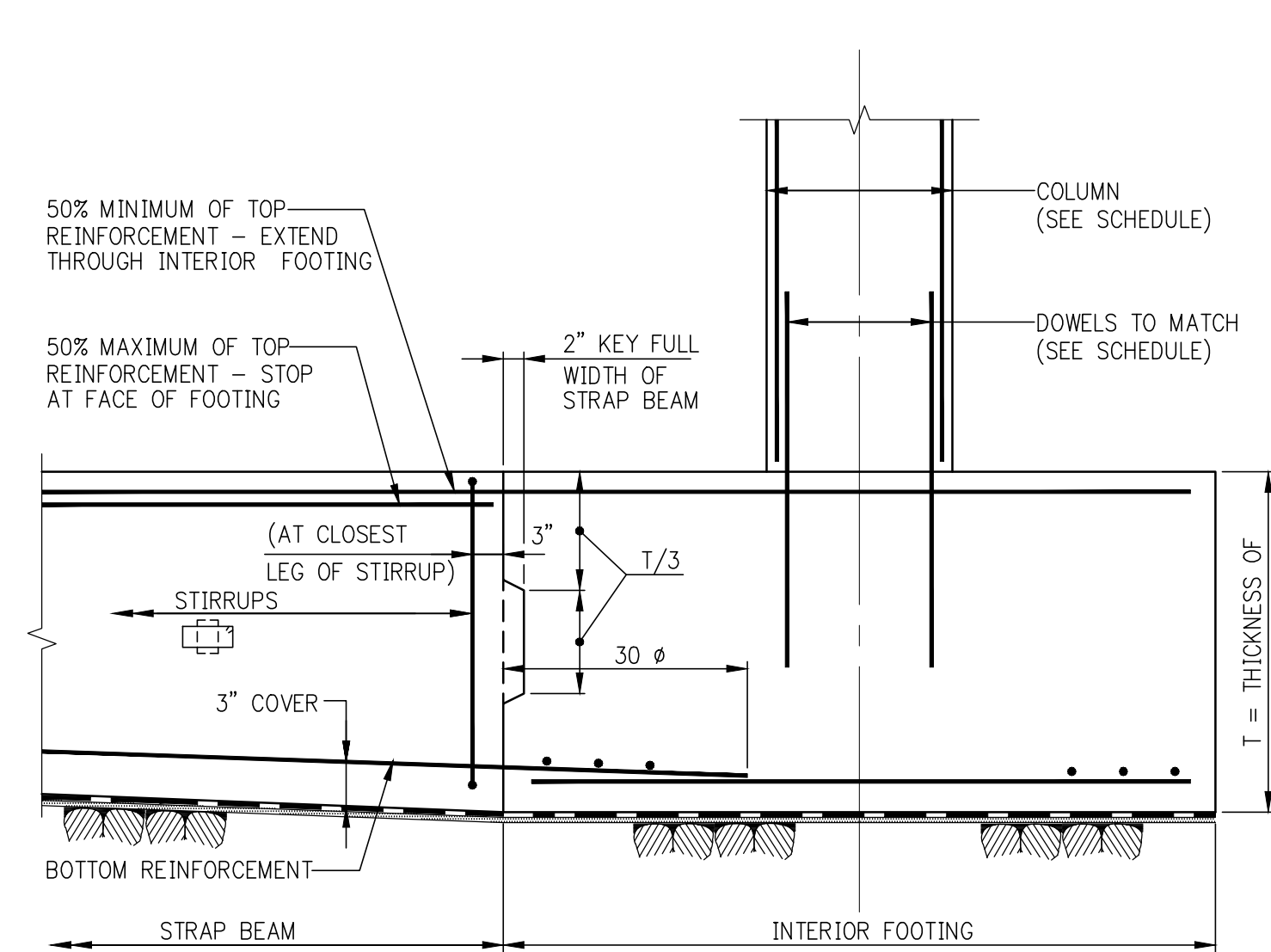
RAIL FORCES MAXIMUM ON EACH GUIDE RAIL (FORCES ARE IN KIPS)				
ELEVATOR NUMBER	1-2	3-4	5	6-7
CAR R1	1.4 K	1.4 K	1.3 K	1.8 K
CAR R2	0.9 K	0.9 K	1.2 K	1.6 K
CAR R3	31.2 K	31.2 K	33.6 K	43.2 K
CWT R3	N/A	27.9 K	N/A	35.5 K

THESE REACTIONS DO NOT OCCUR SIMULTANEOUSLY WITH PIT BUFFER REACTIONS

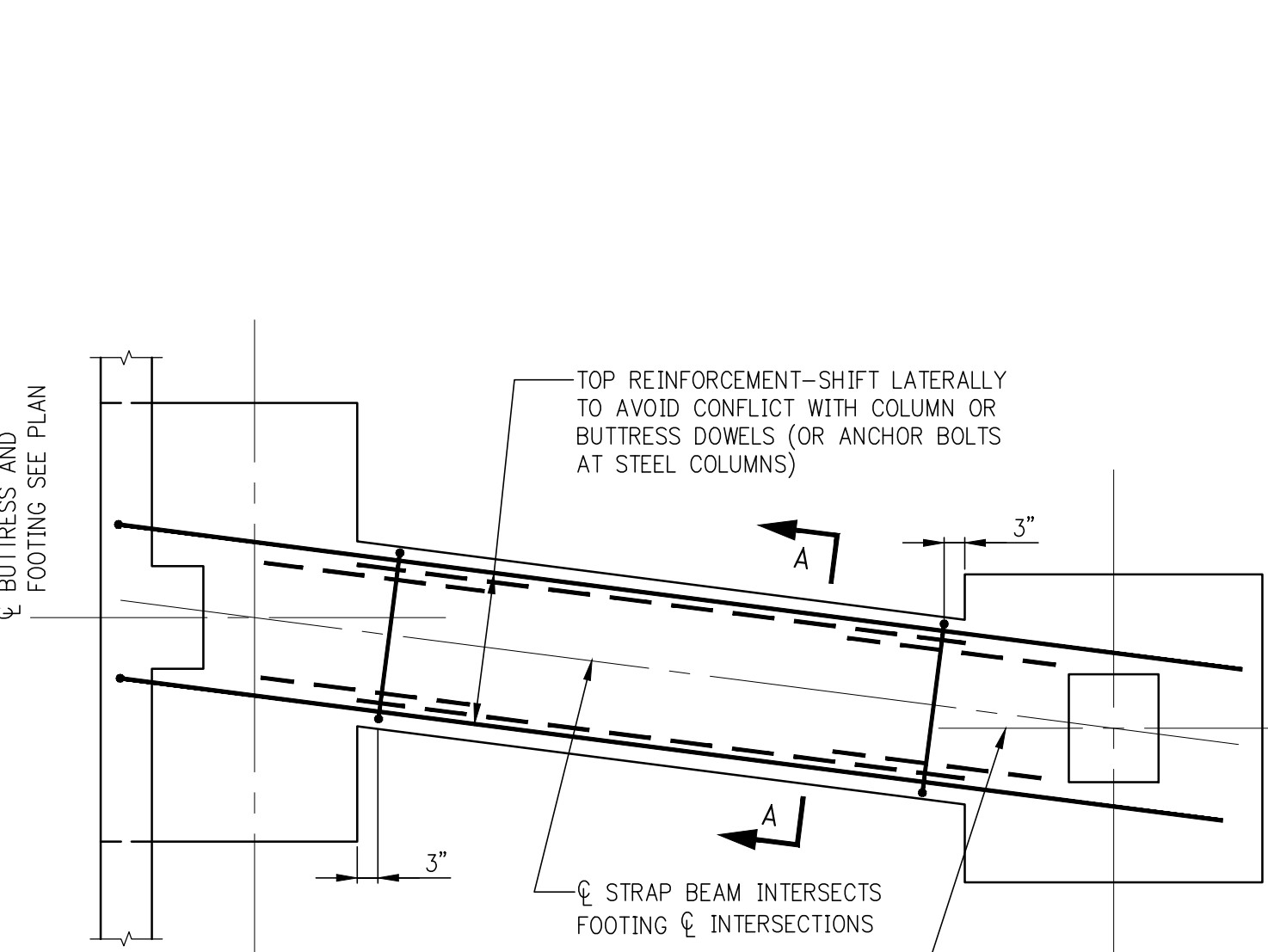


ELEVATION - EXTERIOR FOOTING

NOTE: SEE FOUNDATION DRAWINGS FOR STRAP BEAM SIZE, REINFORCEMENT, AND STIRRUPS.

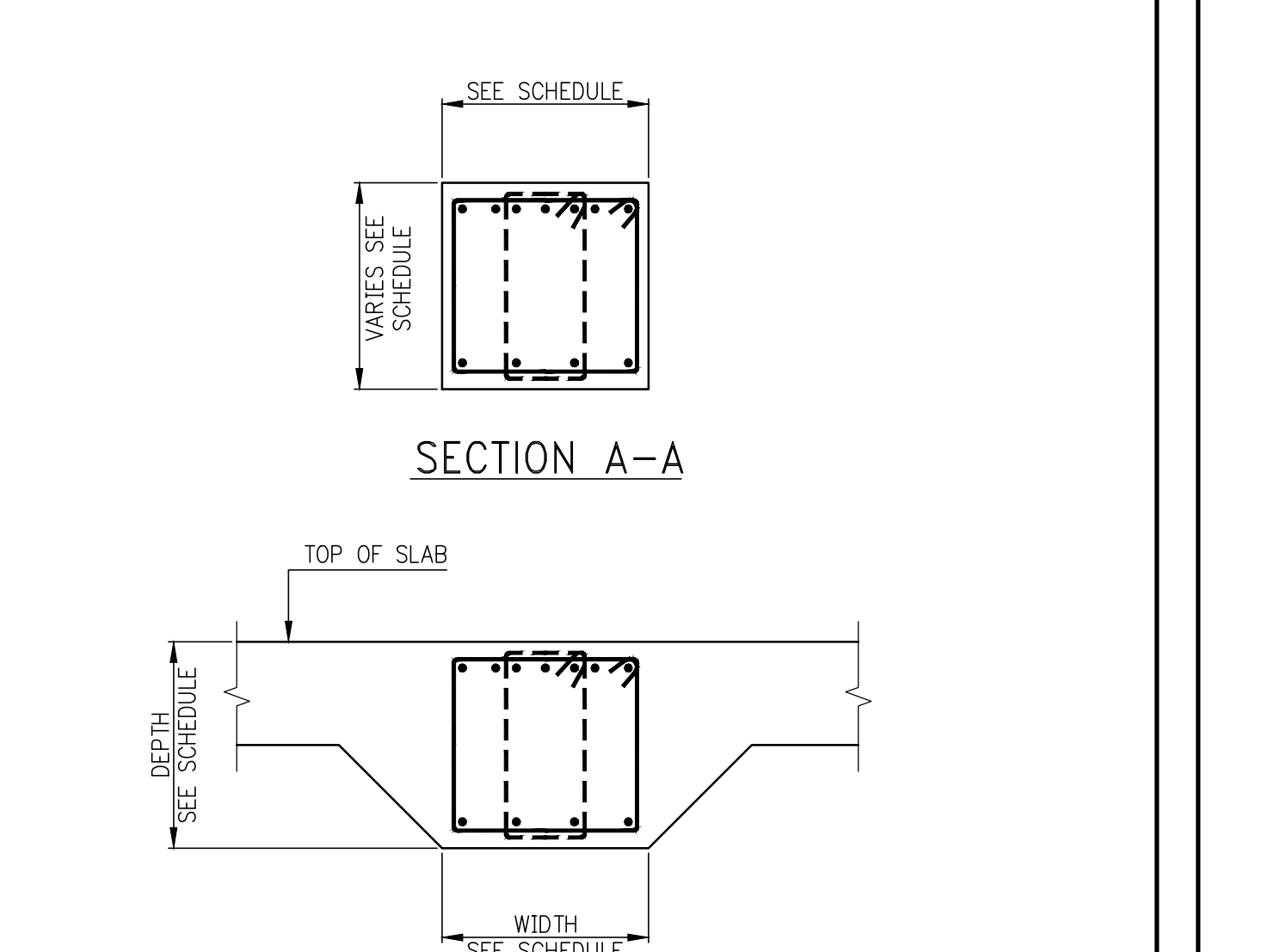


ELEVATION - INTERIOR FOOTING



STRAP BEAM FOR FOOTINGS ON SOIL OR ROCK

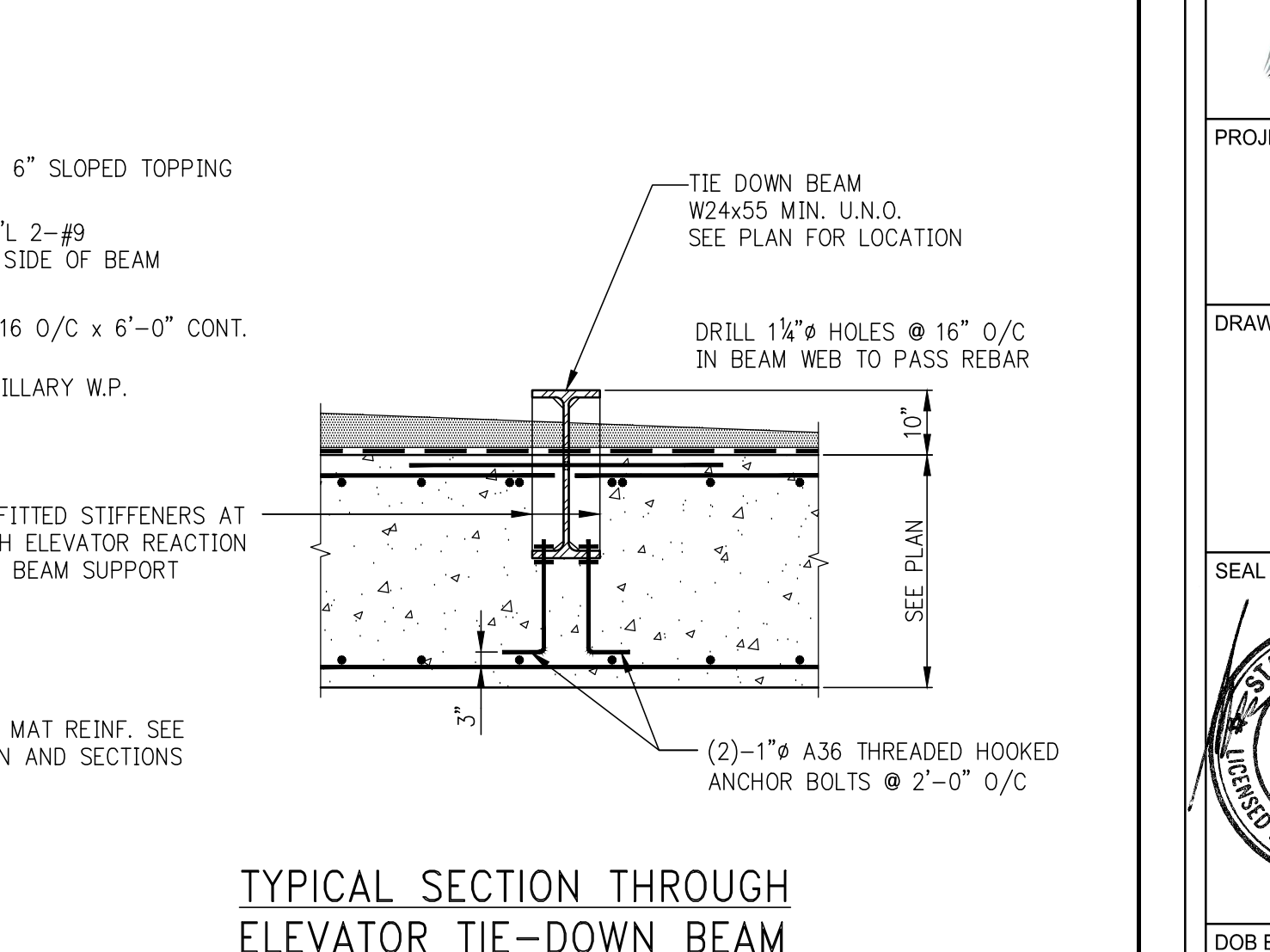
NOTE: STRAP BEAM MUST FRAME DIRECTLY TO FOOTINGS. STRAP BEAMS MAY NOT FRAME TO PIERS OR BUTTRESSES.



TYPICAL SECTION THROUGH ELEVATOR TIE-DOWN BEAM (FOR LOCATION SEE PLAN)

NOTE: FOR SLAB DETAILS AND WATERPROOFING REQUIREMENTS SEE FOUNDATION PLANS AND DETAILS

ALTERNATE SECTION A-A (AT STRAP BEAM MONOLITHIC WITH SLAB)



TYPICAL FOUNDATION DETAILS 2

NOTE: 1. G.C. SHALL SUBMIT SHOP DWGS. FOR ELEVATOR TIE DOWN BEAMS. BEAM SHALL BE INSTALLED SUBJECT TO E.O.R. APPROVAL. 2. ALTERNATE DETAIL: SEE LEND LEASE SK-20140826 AND WSP COMMENTS FOR APPROVED ALTERNATE DETAIL AT EAST MAT CONTRACTOR TO SUBMIT SKETCHES FOR REVIEW FOR ALL PROPOSED SUBSTITUTIONS.

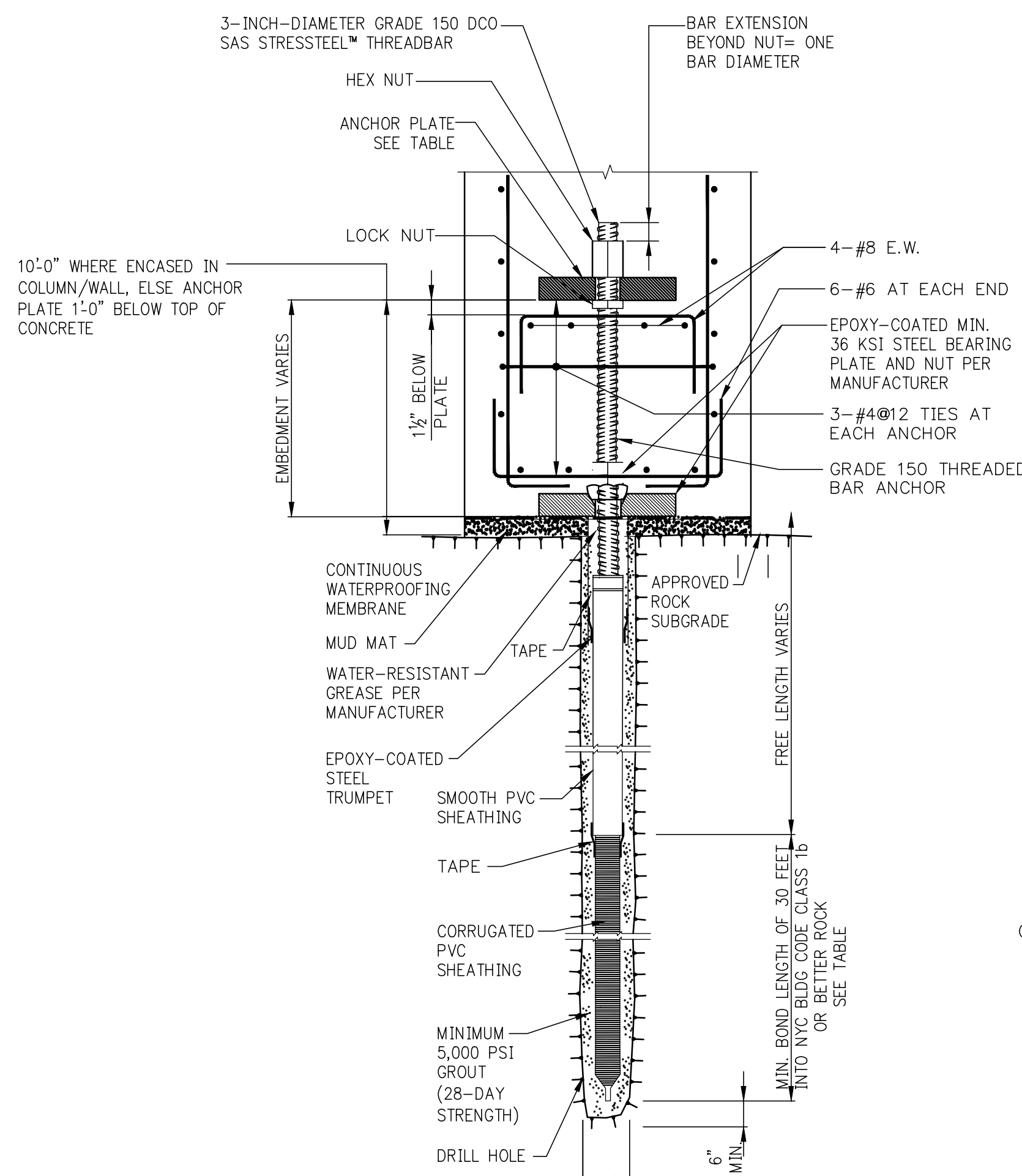
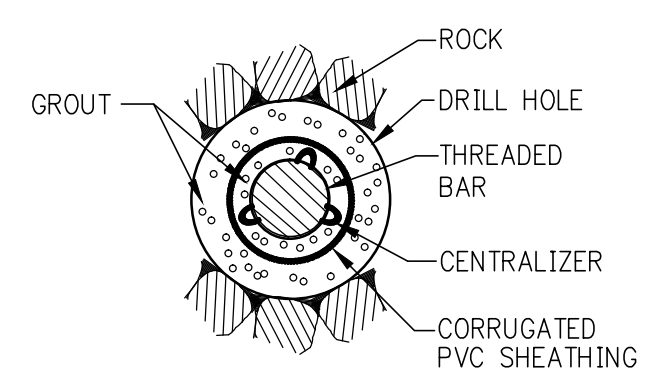


TABLE OF REINFORCEMENT ADDED BELOW ANCHOR PLATES	
ROCK ANCHOR BAR DIA.	ADD'L REINF. PROVIDED
3"	2-#11 E.W.



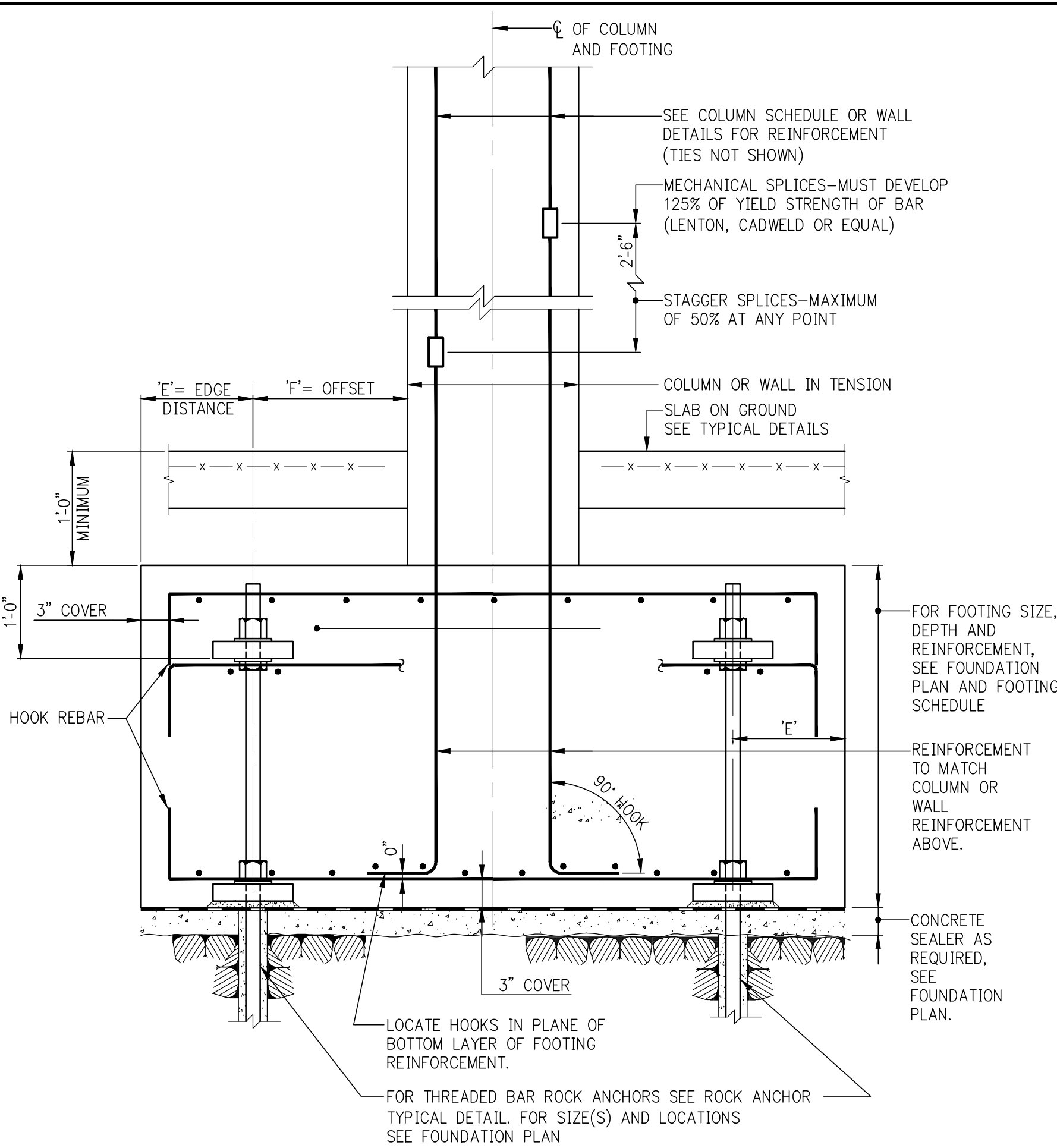
SECTION A-A
RECOMMENDED GROUT MIX
1 BAG - PORTLAND CEMENT TYPE III
5 GALLONS - POTABLE WATER
1/2 LB. Sika ENTRAplast "N"
MINIMUM GROUT STRENGTH $f_c=5$ KSI

- NOTE:
1. NOT TO SCALE.
2. REFER TO SPECIFICATION SECTION 316800 FOR TIE-DOWN ANCHOR INSTALLATION AND TESTING REQUIREMENTS.

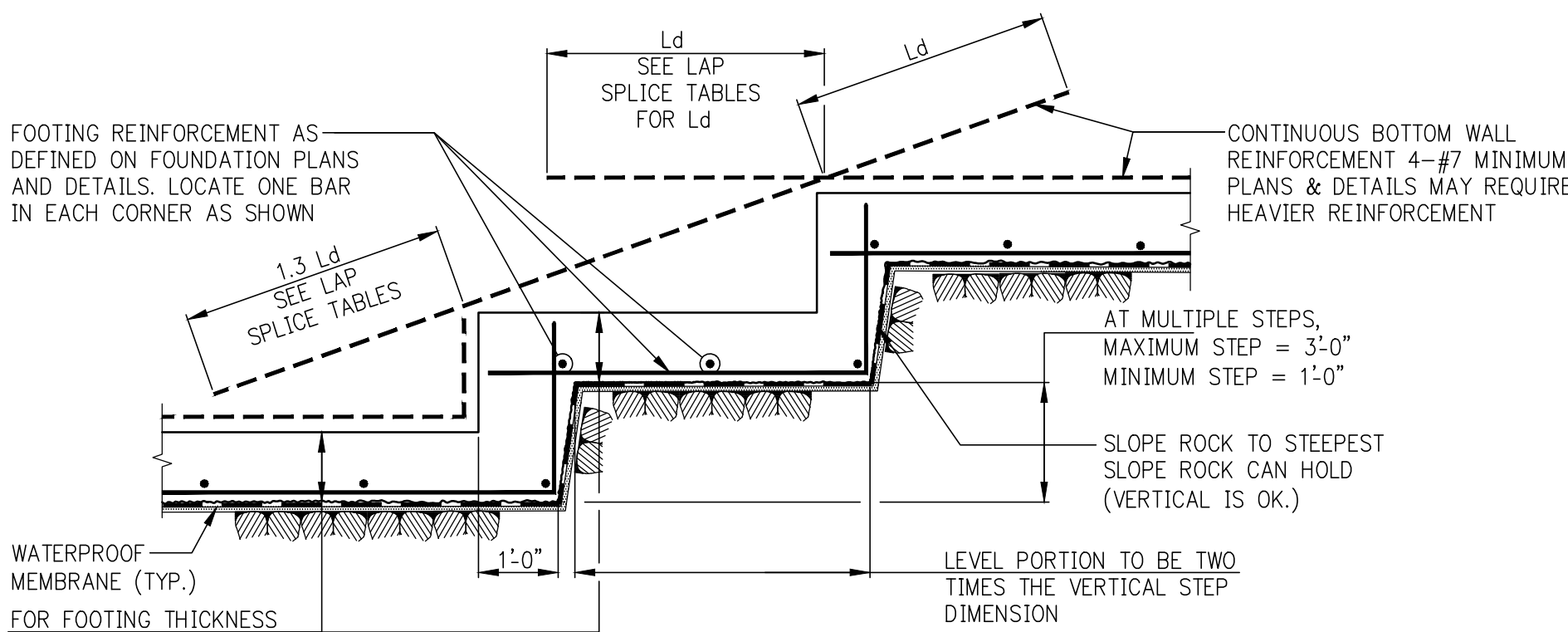
TABLE FOR DOUBLE CORROSION PROTECTION ROCK ANCHORS						
THREADED BAR DIAMETER	DESIGN LOAD (KIPS)	ANCHOR PLATE (Fy=50 ksi)	MINIMUM DRILL HOLE DIAMETER SEE NOTE 1	MINIMUM FREE LENGTH	MINIMUM EMBEDMENT IN FOOTING "h"	MAXIMUM OFFSET "f" OR "g" SEE NOTE 2
3"	6150	12"x12"x4"	8"	40'-0"	5'-0"	2'-0"

NOTES FOR CORROSION PROTECTION:

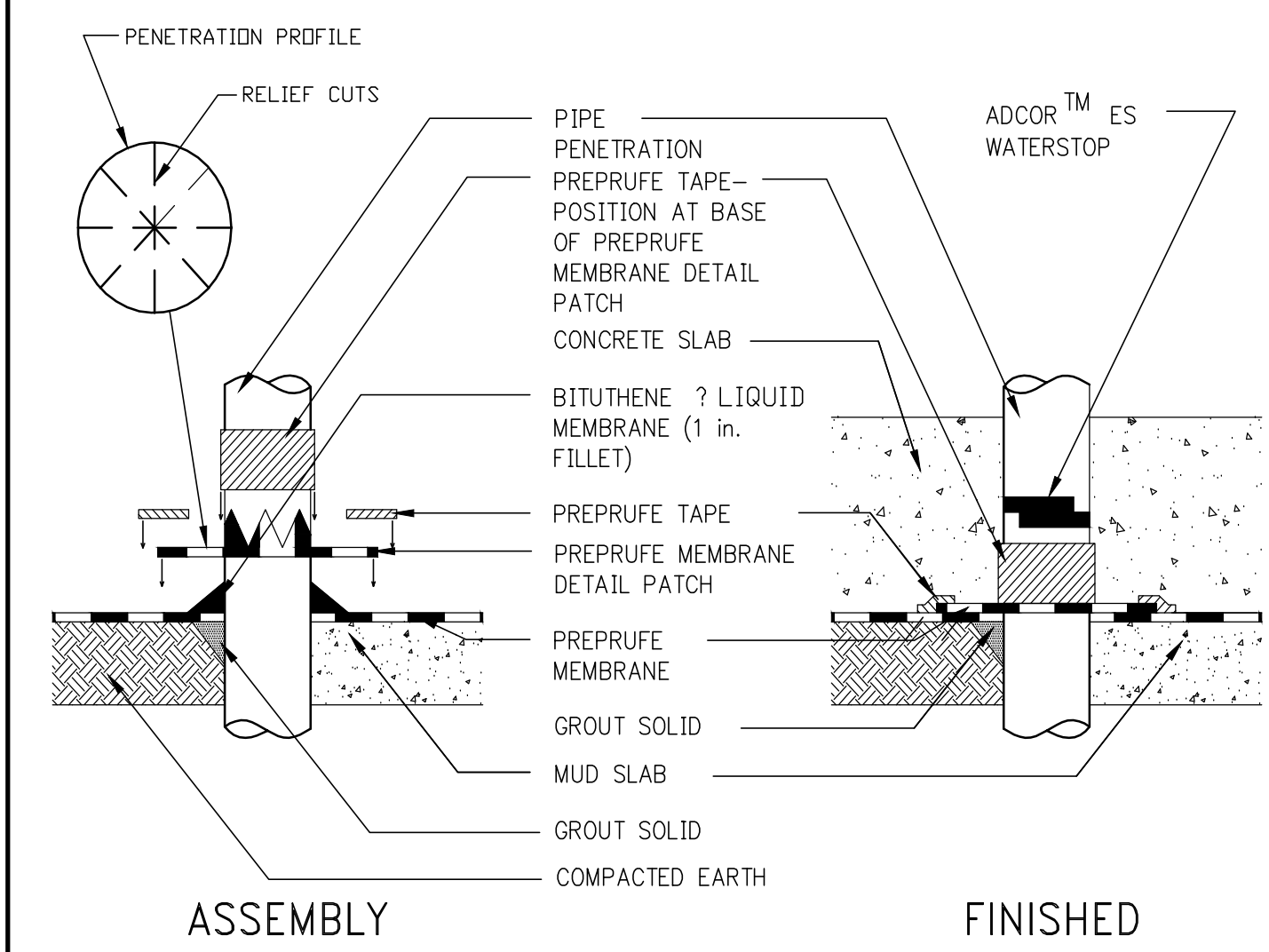
1. MINIMUM DRILL HOLE DIAMETER ASSUMES COUPLERS ARE NOT REQUIRED. HOLE DIAMETER MAY INCREASE DUE TO USE OF COUPLERS OR ROCK CONDITION.
2. DIMENSIONS E, F, AND G NOT APPLICABLE AT WALLS. SEE 'ROCK ANCHOR AT WALL' FOR REQUIREMENTS.



NOTE:
SHEARWALL REINFORCEMENT WILL GENERALLY BE LAP SPLICED. SEE SHEARWALL DETAILS FOR TYPE OF SPLICE REQUIRED.

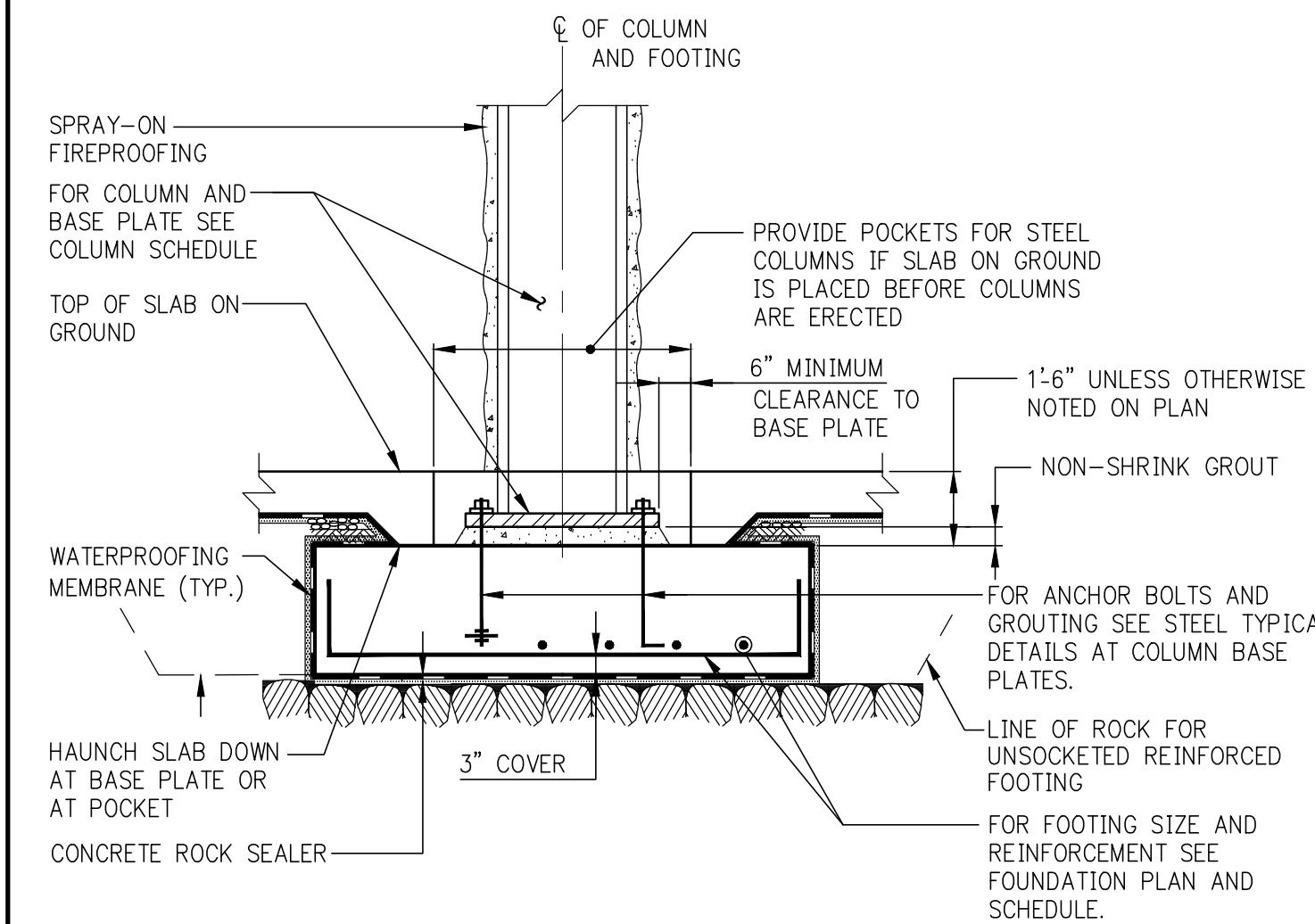


STEPPED FOUNDATION WALL FOOTING ON ROCK
(DOES NOT APPLY TO SHEARWALLS)

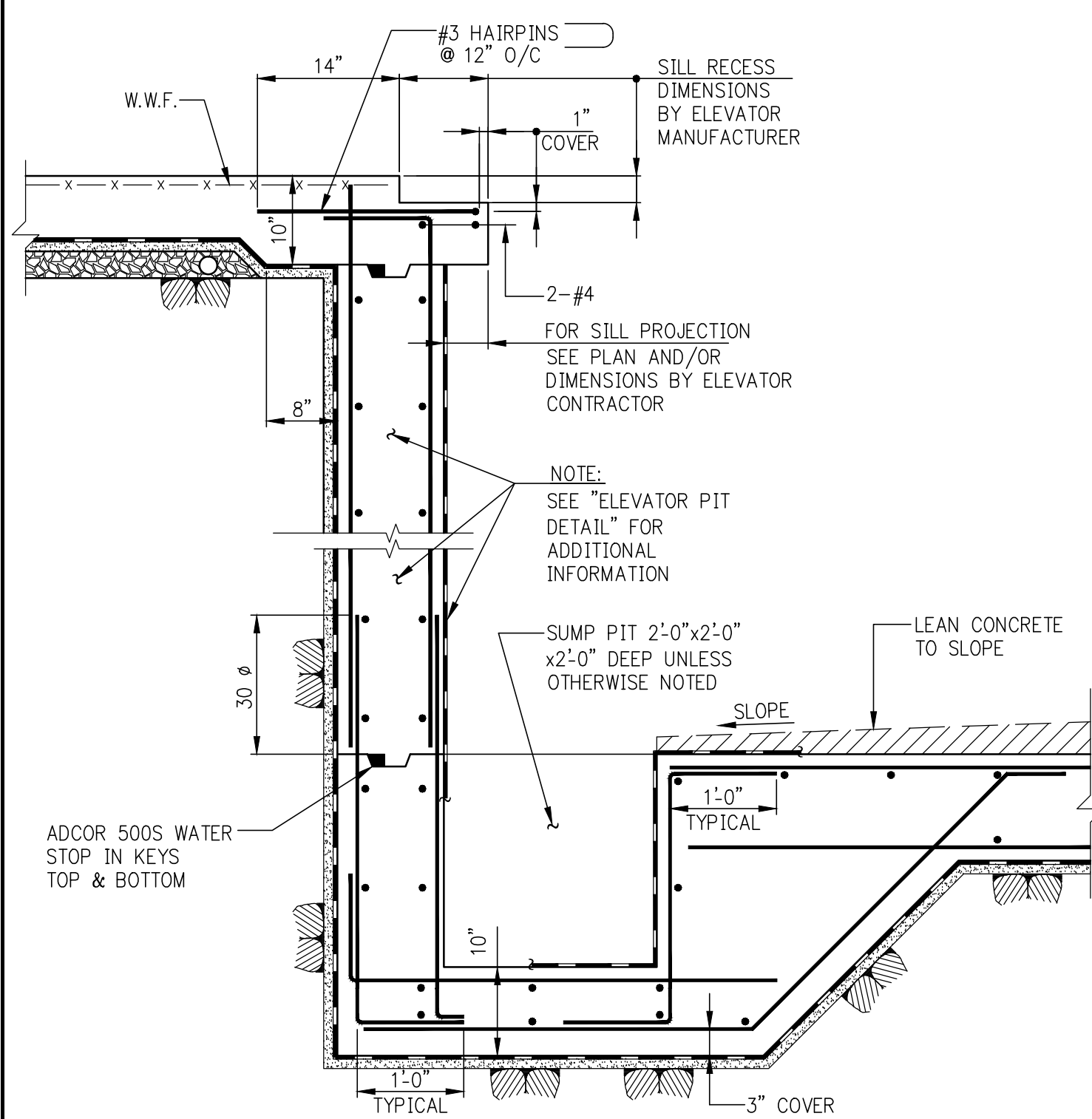


NOTE:
ALL PENETRATIONS TO BE GROUTED. A MINIMUM OF 6 INCHES IS REQUIRED BETWEEN PENETRATIONS TO ENSURE PROPER DETAILING. AVOID PLACEMENT OF MULTIPLE PENETRATIONS.

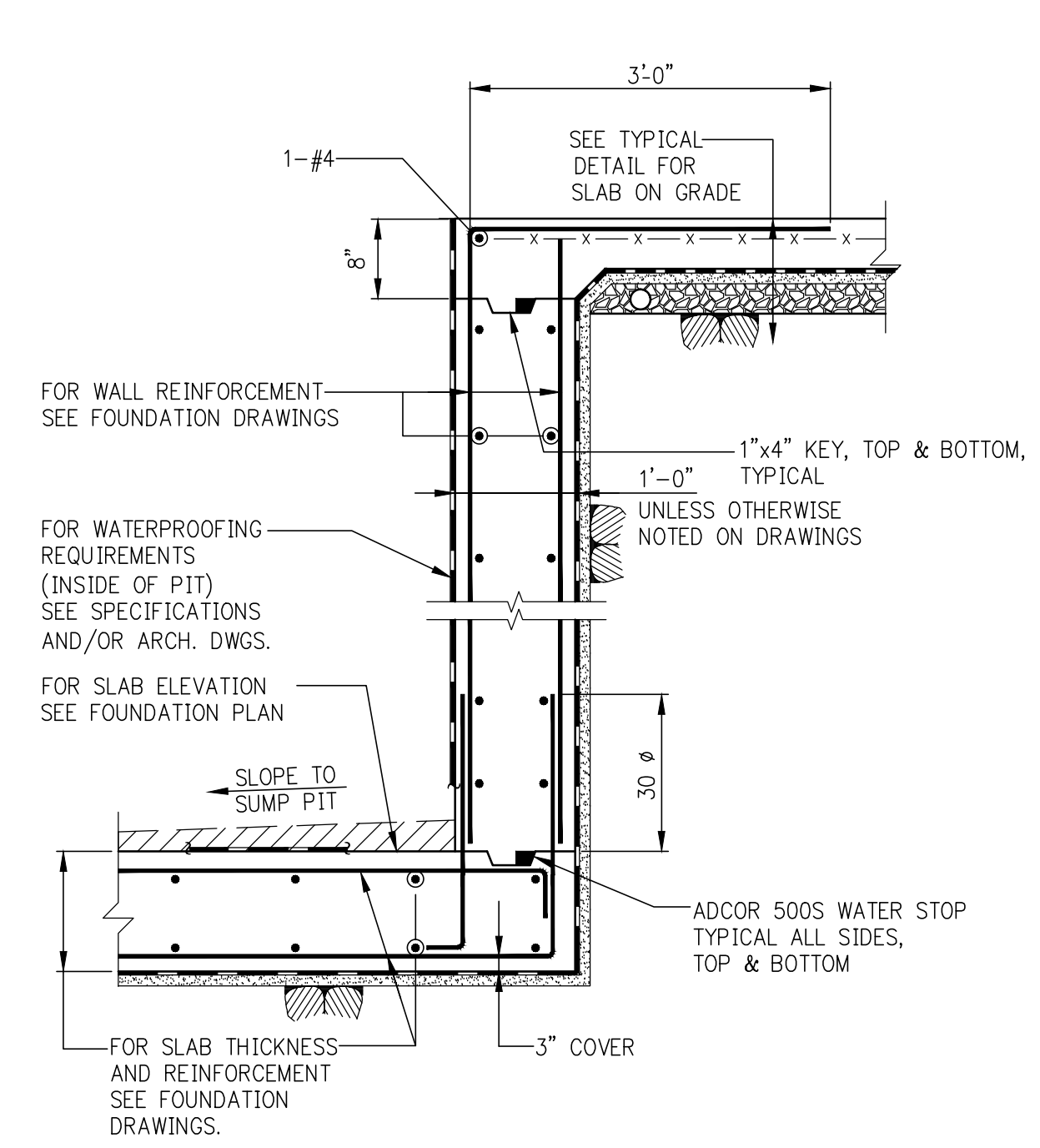
WATERPROOFED SLEEVE THROUGH WALL WITH WATERPROOFING

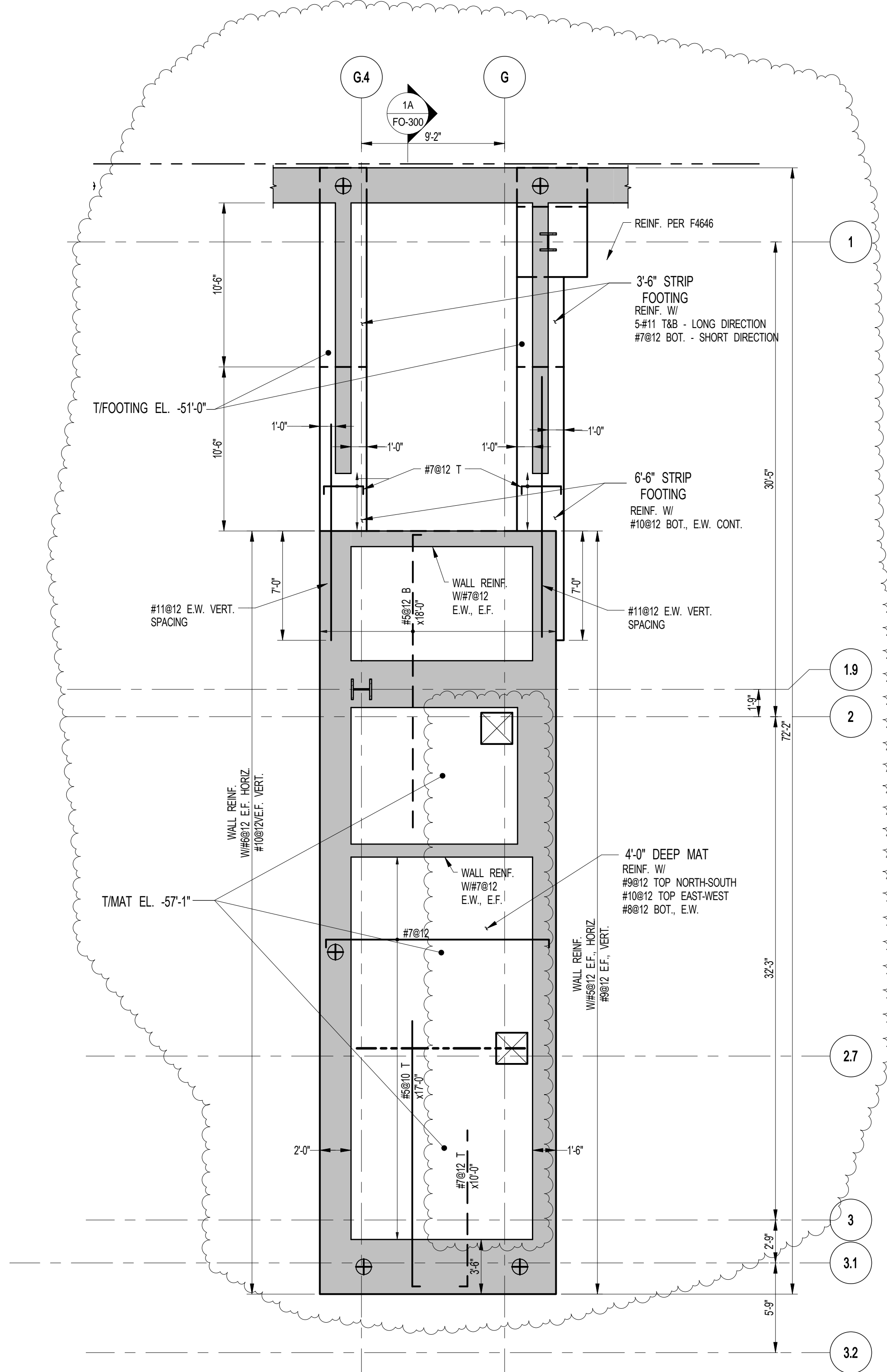


FOOTING ON ROCK



ELEVATOR PIT SILL AND SUMP PIT



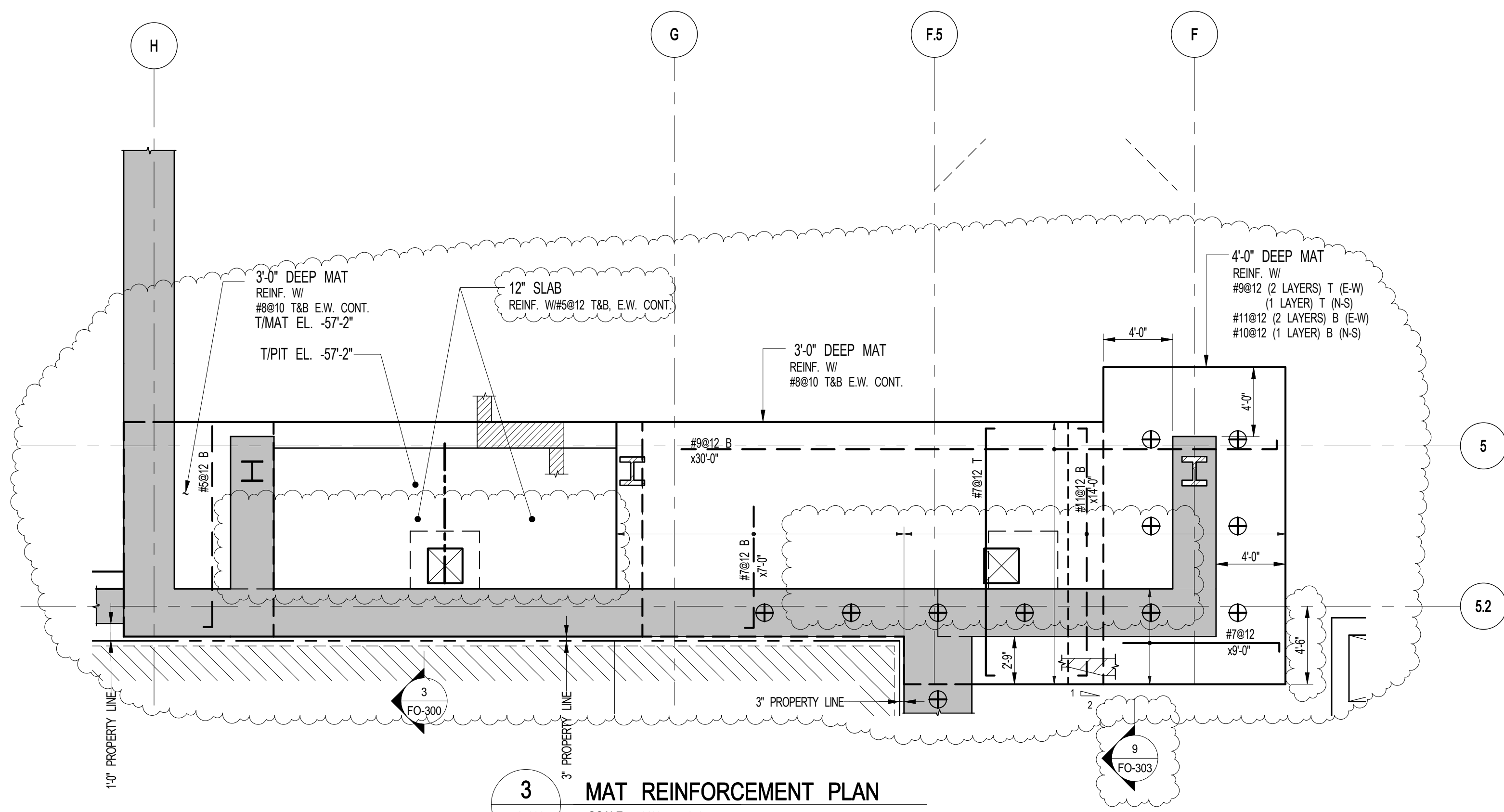


1 MAT REINFORCEMENT PLAN

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.

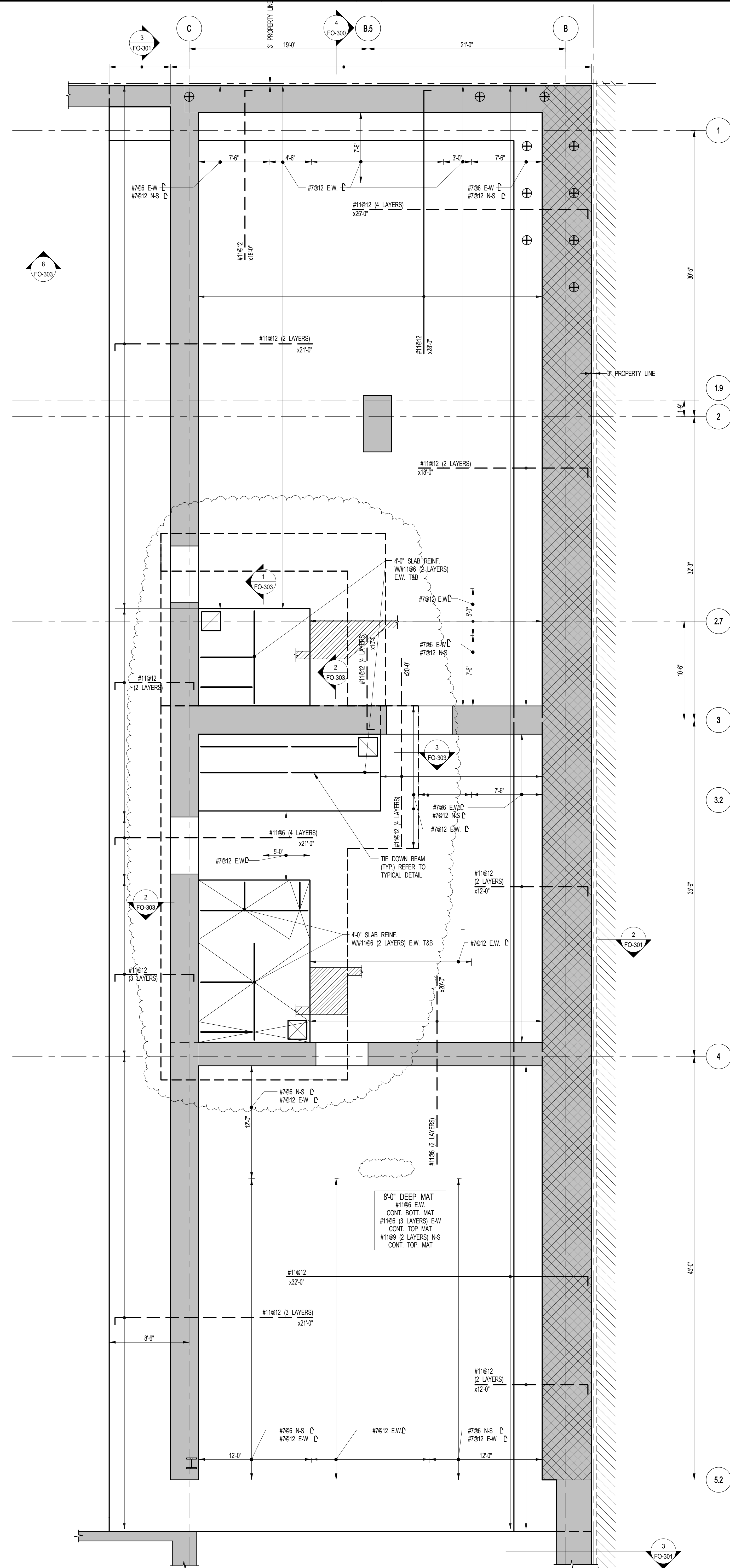


3 MAT REINFORCEMENT PLAN

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.

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

DEVELOPER: EXTREME DEVELOPMENT COMPANY

DESIGN ARCHITECT: ADRIAN SMITH + GORDON GILL ARCHITECTURE

INTERIOR DESIGNER: Rottet Architecture and Design Studio, PLLC

ARCHITECT OF RECORD: AAJ ARCHITECTS, P.C.

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	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

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

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

DRAWING TITLE: MAT REINFORCEMENT PLAN

DATE: 03-31-2014

PROJECT No: 2012185

DRAWN: CAD

CHK: YE

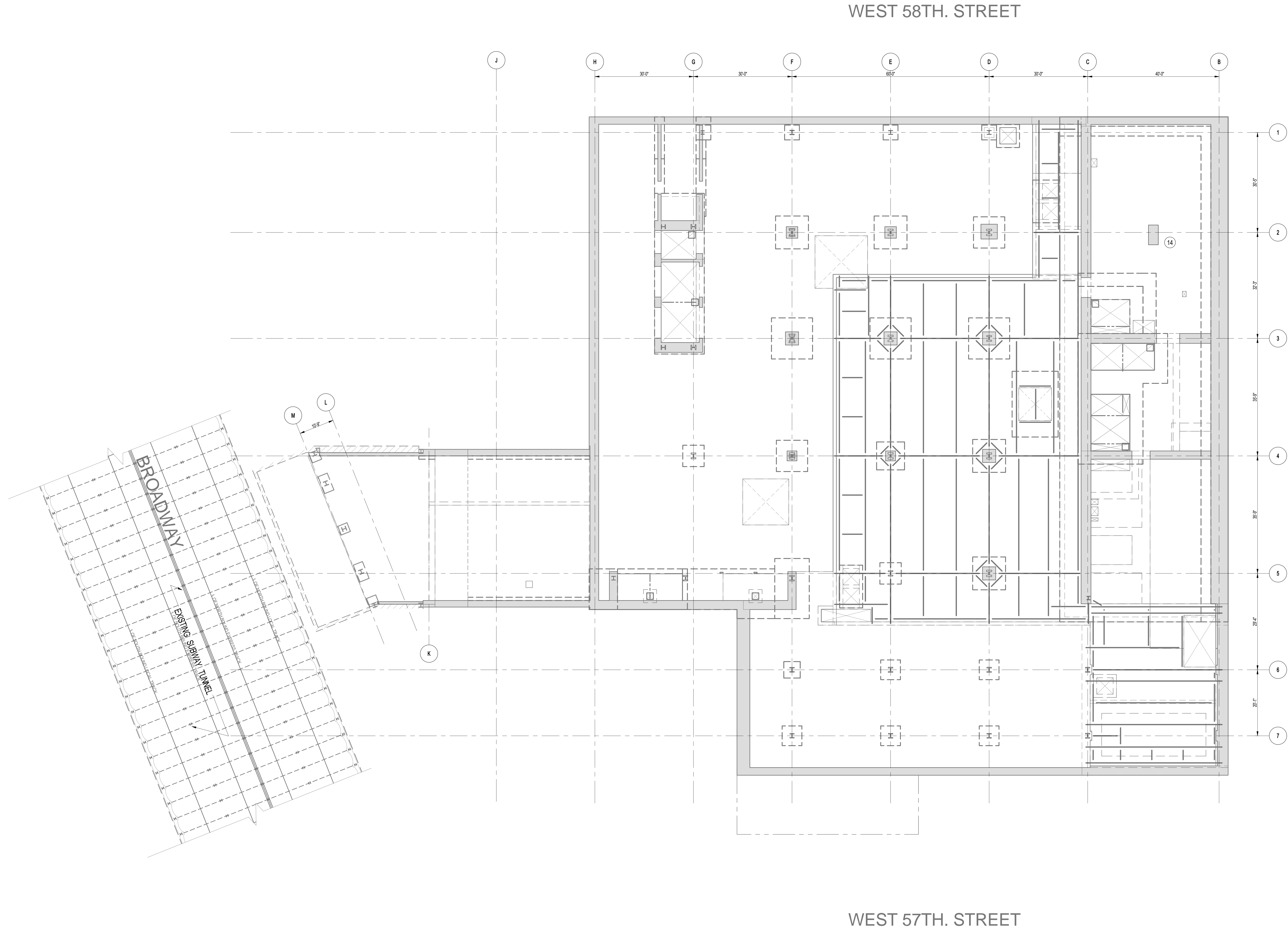
SCALE: As indicated

DWG No: FO-102.01

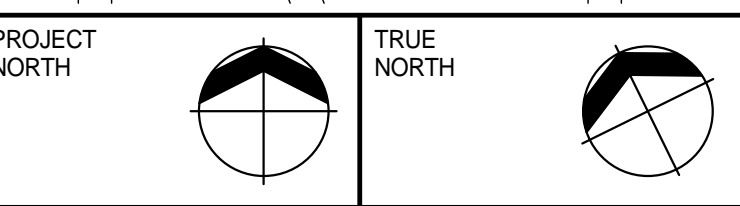
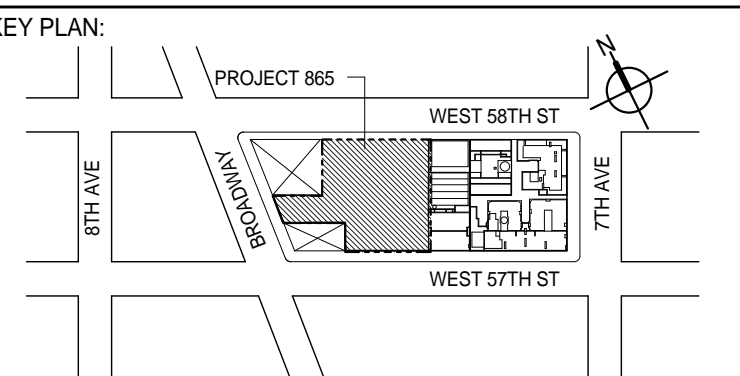
DOB PAGE No: 5 of 100

DOB EMPLOYEE STAMP: DOB S-SCAN:

14



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

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) 687-9885
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	

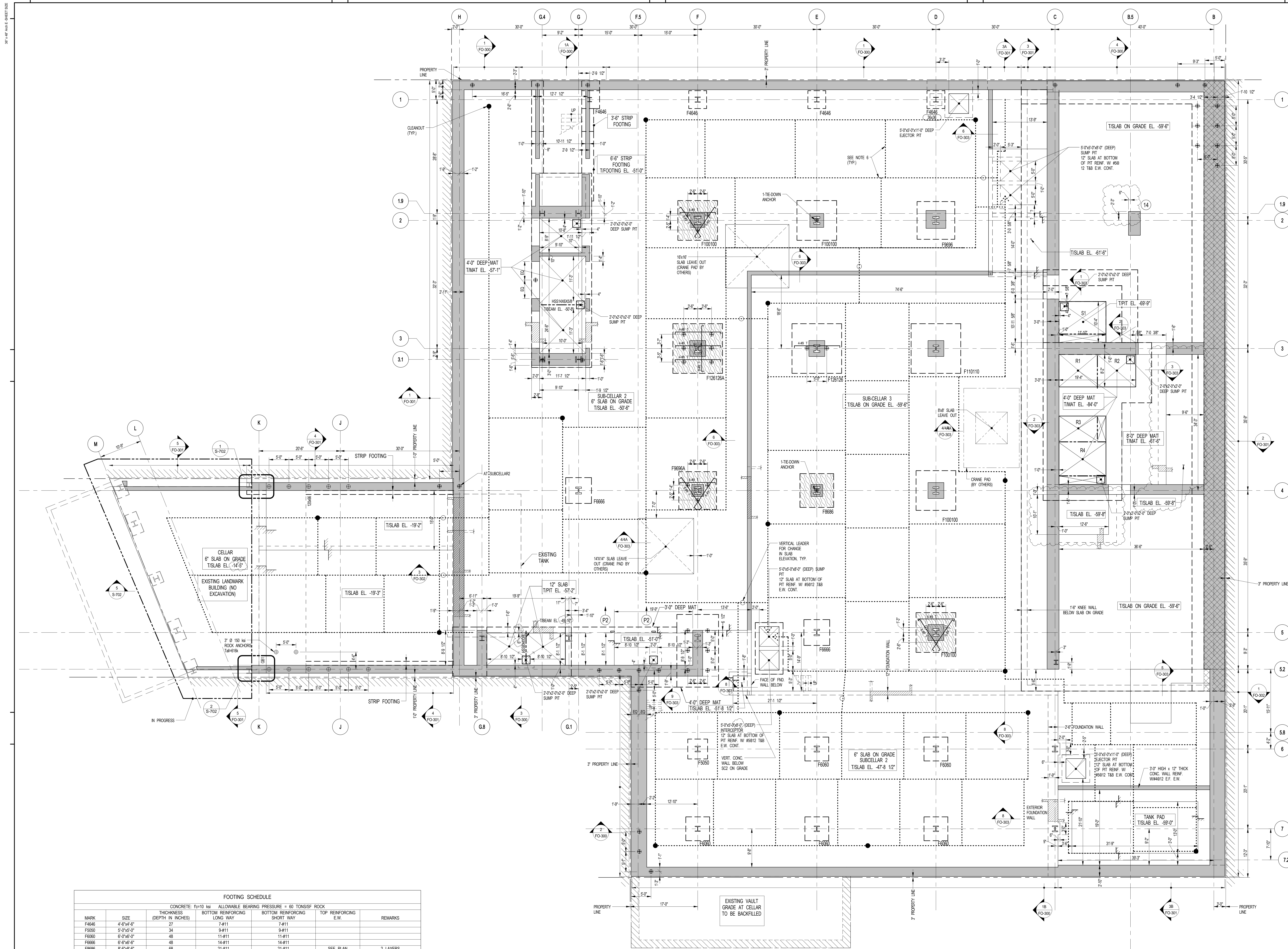
DOB PAGE No: 4 of 100

DOB EMPLOYEE STAMP: DOB 5-SCAN:

30' x 40' AREA SHEET 002

DEPT OF BLDG 212-3322 DEPT OF BLDG 212-3322

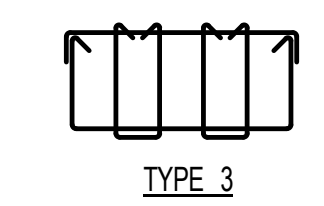
FILE NAME: 212-3322-002



FOOTING SCHEDULE						
MARK	SIZE	CONCRETE: f _c =10 ksi		ALLOWABLE BEARING PRESSURE = 60 TONS/SF ROCK		REMARKS
		THICKNESS (DEPTH IN INCHES)	BOTTOM REINFORCING LONG WAY	BOTTOM REINFORCING SHORT WAY	TOP REINFORCING E.W.	
F466	4'-6"x4'-6"	27	7#11	7#11		
F500	5'-0"x5'-0"	34	9#11	9#11		
F600	6'-0"x6'-0"	48	11#11	11#11		
F666	6'-6"x6'-6"	48	14#11	14#11		
F666	6'-6"x6'-6"	68	21#11	21#11	SEE PLAN	2 LAYERS
F666	6'-6"x6'-6"	62	2x13#11	2x13#11	SEE PLAN	2 LAYERS
F966A	9'-6"x9'-6"	68	2x13#11	2x13#11	SEE PLAN	2 LAYERS
F10010	10'-0"x10'-0"	72	2x14#11	2x14#11	SEE PLAN	2 LAYERS
F10110	11'-0"x11'-0"	72	2x15#11	2x15#11	SEE PLAN	2 LAYERS
F12612	12'-6"x12'-6"	90	2x21#11	2x21#11	SEE PLAN	2 LAYERS
F12612A	12'-6"x12'-6"	96	2x23#11	2x23#11	SEE PLAN	2 LAYERS

NOTE: FIRST FOOTING DIMENSION IS EAST-WEST DIRECTION.

GRADE BEAM SCHEDULE								
BEAM MARK	SIZE		REINFORCEMENT		TOP ADDL BARS AT SUPPORT	TYPE	STIRRUPS	
	WIDTH	DEPTH	BOTTOM CONTINUOUS	TOP CONTINUOUS			SIZE	SPACING
GB1	120	66	22#11	11#7		3	#4	12"



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) REIN. (TYP).
 - COORDINATE PERFORATED PIPE DRAINAGE AND SUMP PITS WITH ARCH. & MECH. DRAWINGS. FOR TYPICAL DRAIN DETAILS SEE F0300 SERIES DRAWINGS.
 - FOR UNDERGROUND PLUMBING SEE ARCH-MECH. DRAWINGS.
 - FOR GENERAL NOTES AND LEGEND SEE F0201.
 - FOR TYPICAL DETAILS SEE F0300 SERIES DRAWINGS.
 - FOR FOUNDATION SECTIONS SEE F0300 SERIES DRAWINGS.
 - FOR SHIELDING DETAILS SEE S-600 SERIES DRAWINGS.
 - FOR COLUMN SIZES AND DETAILS SEE S-600 SERIES DRAWINGS.
 - FOR STAR 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

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**
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**
AJA ARCHITECTS, P.C.
401 Westchester 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 2885 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 11th 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
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 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

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.

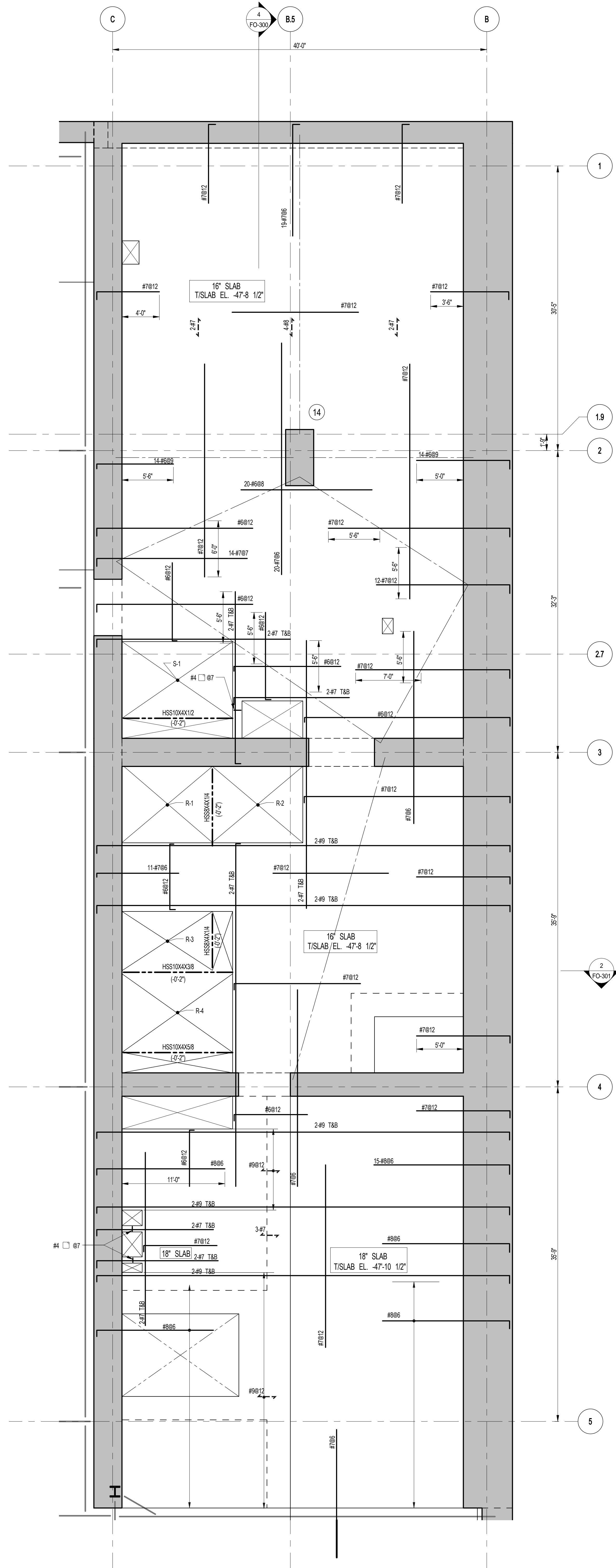
CONSULTANT: **WSP**
228 East 45th Street
New York, NY 10017
(212) 687-2885
www.wspgroup.com/usa

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

DRAWING TITLE: **FOUNDATION (SUB-CELLAR 3) PLAN**

SEAL & SIGNATURE

DATE: 03-31-2014
PROJECT No: 2012185
DRAWN: CAD
CHK: YE
SCALE: 1/8" = 1'-0"
DWG No: **FO-100.02**
DOB PAGE No: 3 of XXX
DOB'S SCAN:

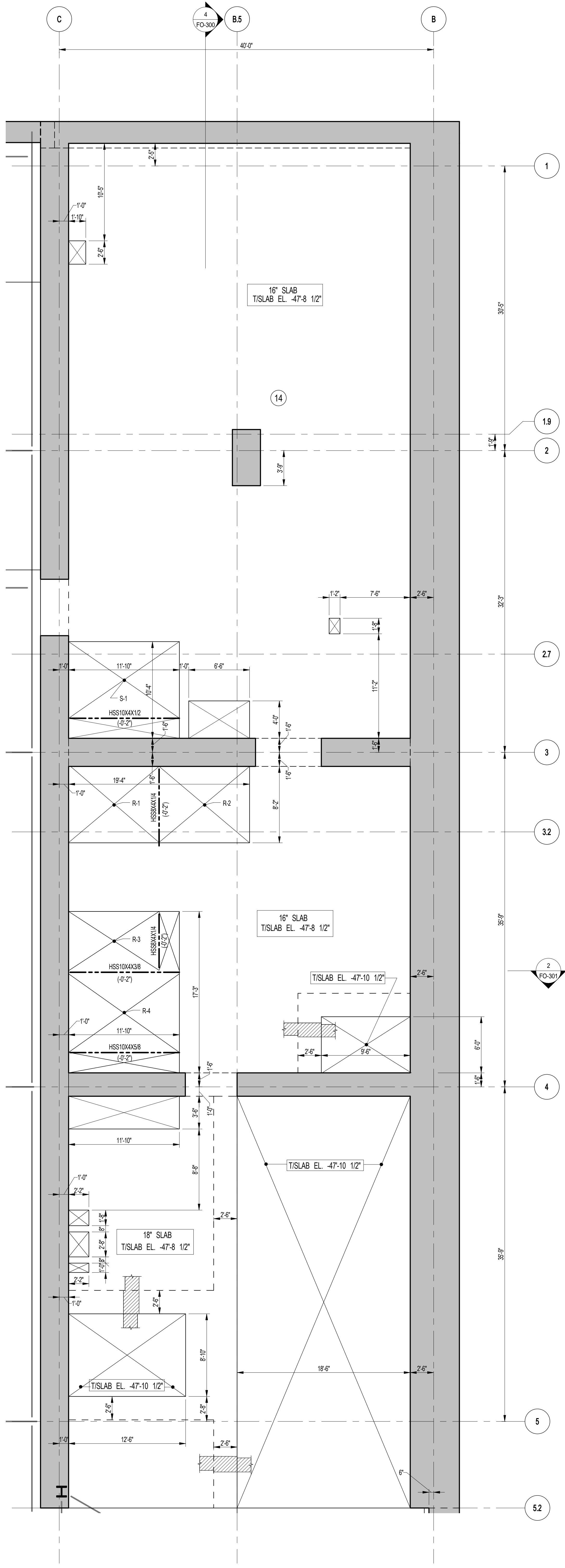


1 SUBCELLAR 2 FRAMING PLAN

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

NOTES:

1. FOR TISLAB 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

TRUE NORTH

KEY PLAN

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

DEVELOPER: EXTRELL 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:

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
 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: A.J.P. 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
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	CD PROGRESS ISSUE-2	12-19-2014
7	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) 687-9885
 www.wspgroup.com/usa

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

DRAWING TITLE: SUBCELLAR 2 - PART GENERAL ARRANGEMENT AND REINFORCING PLAN

SEAL & SIGNATURE

DATE: 10-15-2014

PROJECT No: 2012185

DRAWN: CADDO

CHK: YE

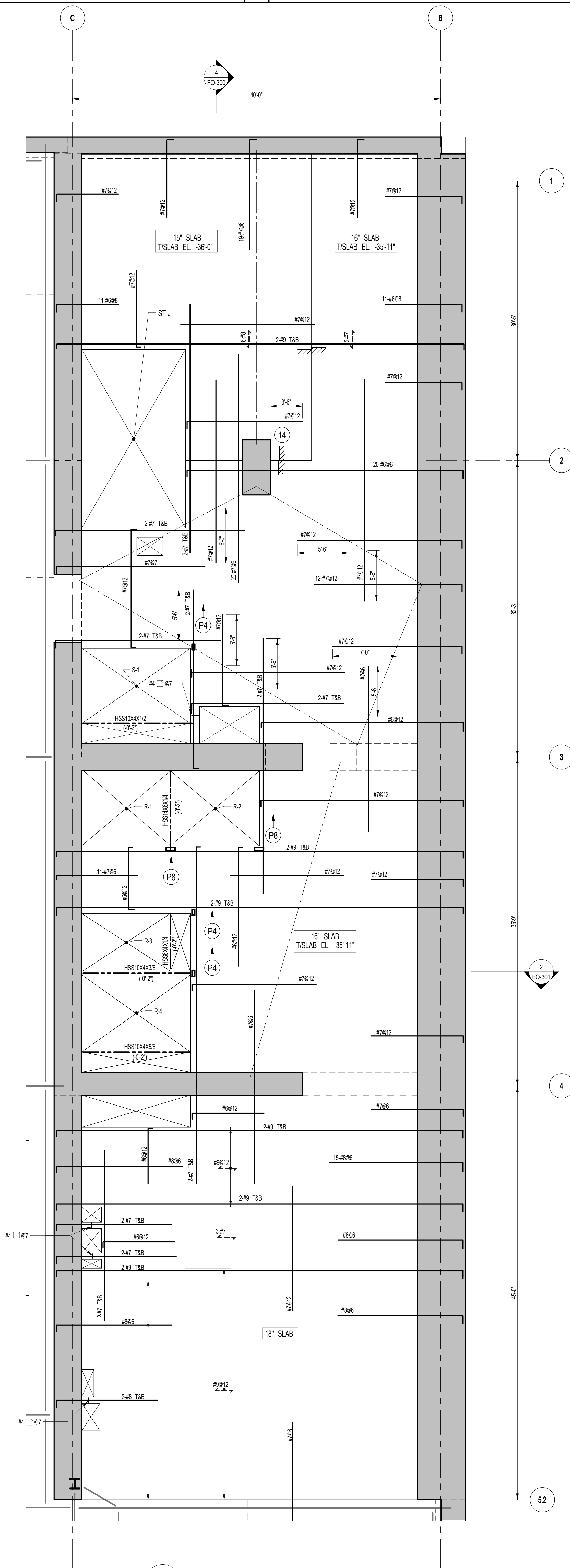
SCALE: As indicated

DWG No: FO-002.00

DOB PAGE No:

DOB EMPLOYEE STAMP:

DOB 5-SCAN:

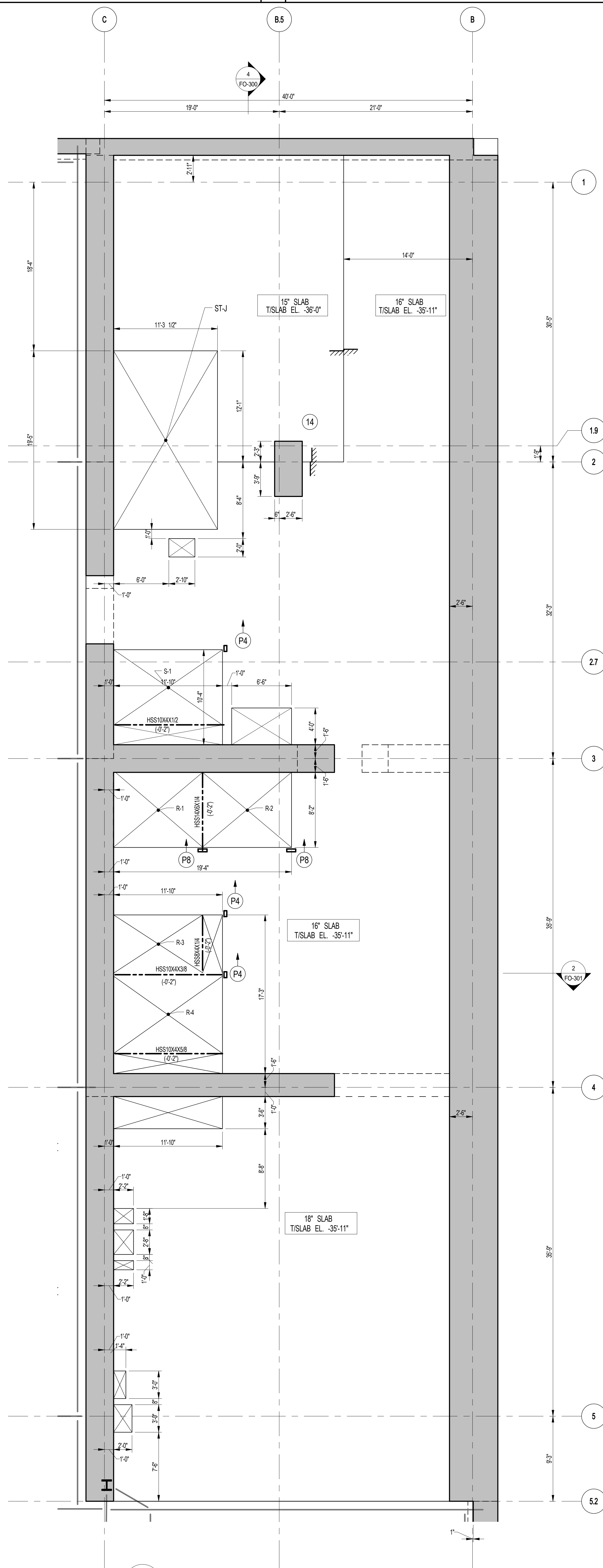


1 SUB CELLAR 1 FRAMING PLAN

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 16" & 15" 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

KEY PLAN

PROJECT #011

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: 646 989 7000 FAX:

ARCHITECT OF RECORD:

Base Building Shell, Core, & Residential
AJL 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 10001-2727
 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:

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 57th Street, 12A
 New York, NY 10019
 TEL: 212 759 6452 FAX: 212 759 6540

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

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) 687-9885
 www.wspgroup.com/usa

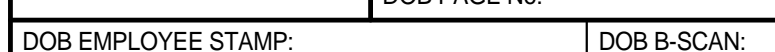
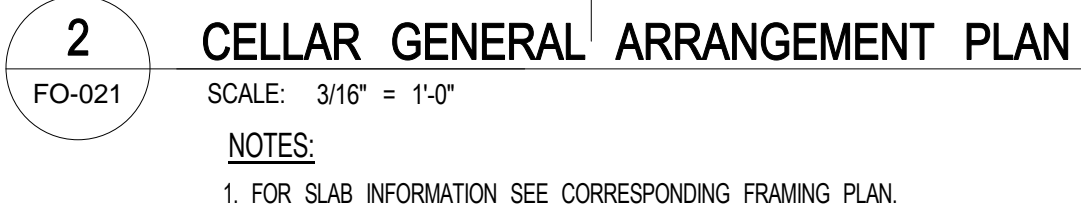
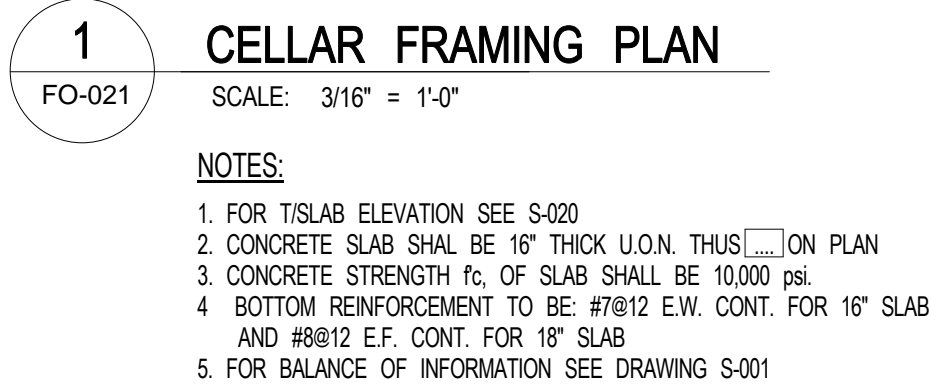
PROJECT:

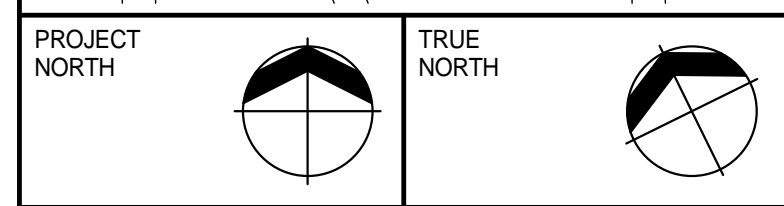
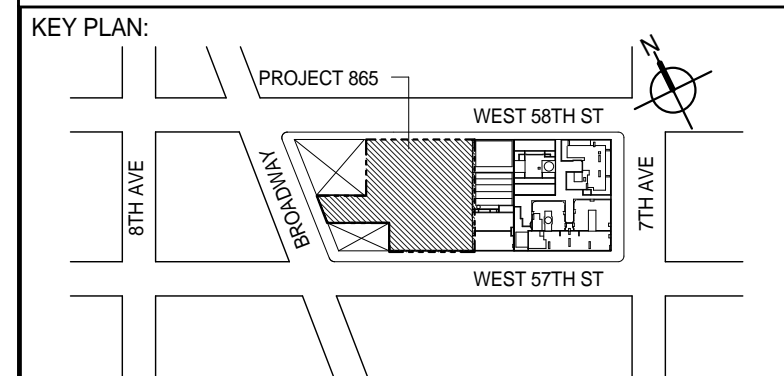
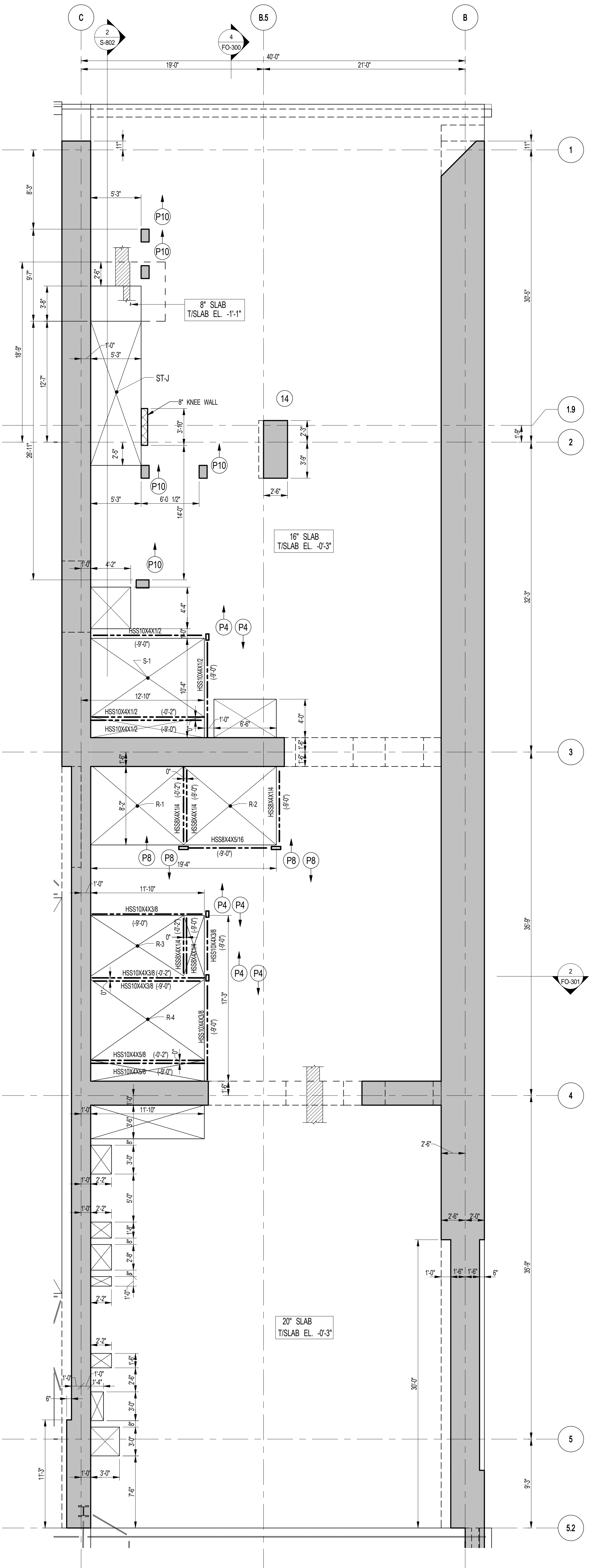
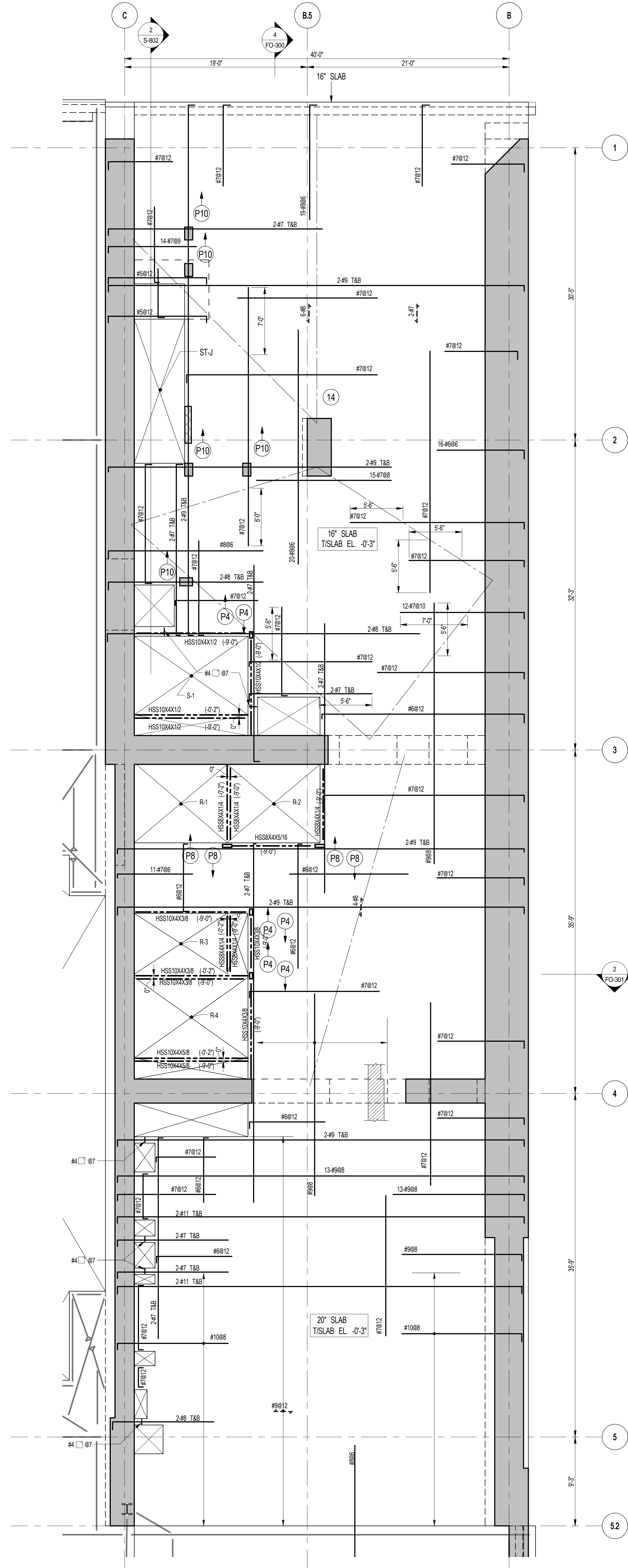
217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:

SUB CELLAR 1 - PART GENERAL ARRANGEMENT AND REINFORCING PLAN

SEAL & SIGNATURE DATE: 10-15-2014 PROJECT No: 2012185 DRAWN: CAD CHK: YE SCALE: As Indicated DWG No: FO-011.00 DOB PAGE No: DOB 5-SCAN:	DATE: 10-15-2014 PROJECT No: 2012185 DRAWN: CAD CHK: YE SCALE: As Indicated DWG No: 6 DOB PAGE No: DOB 5-SCAN:
---	---





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: 646 989 7000 FAX:

ARCHITECT OF RECORD: Base Building Shell, Core, & Residential
AJA 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 10001-2727
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 6462 FAX: 212 759 6540

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	CD PROGRESS ISSUE-2	12-19-2014
7	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) 687-9885
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: CADD	REV:
	CHK: YE	7
	SCALE: As indicated	
DWG No:	FO-111.00	

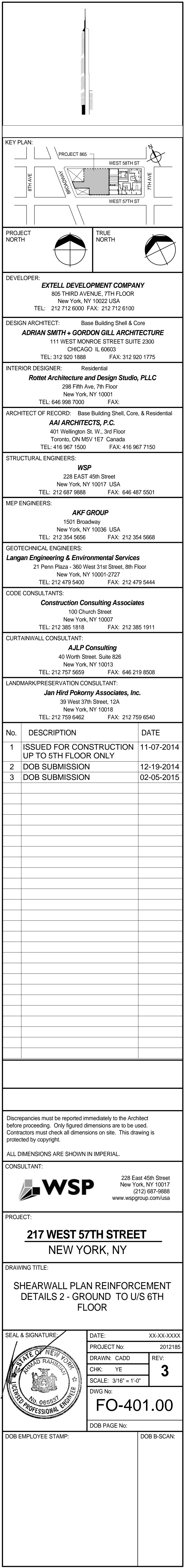
DOB EMPLOYEE STAMP: DOB PAGE No: DOB 5-SCAN:



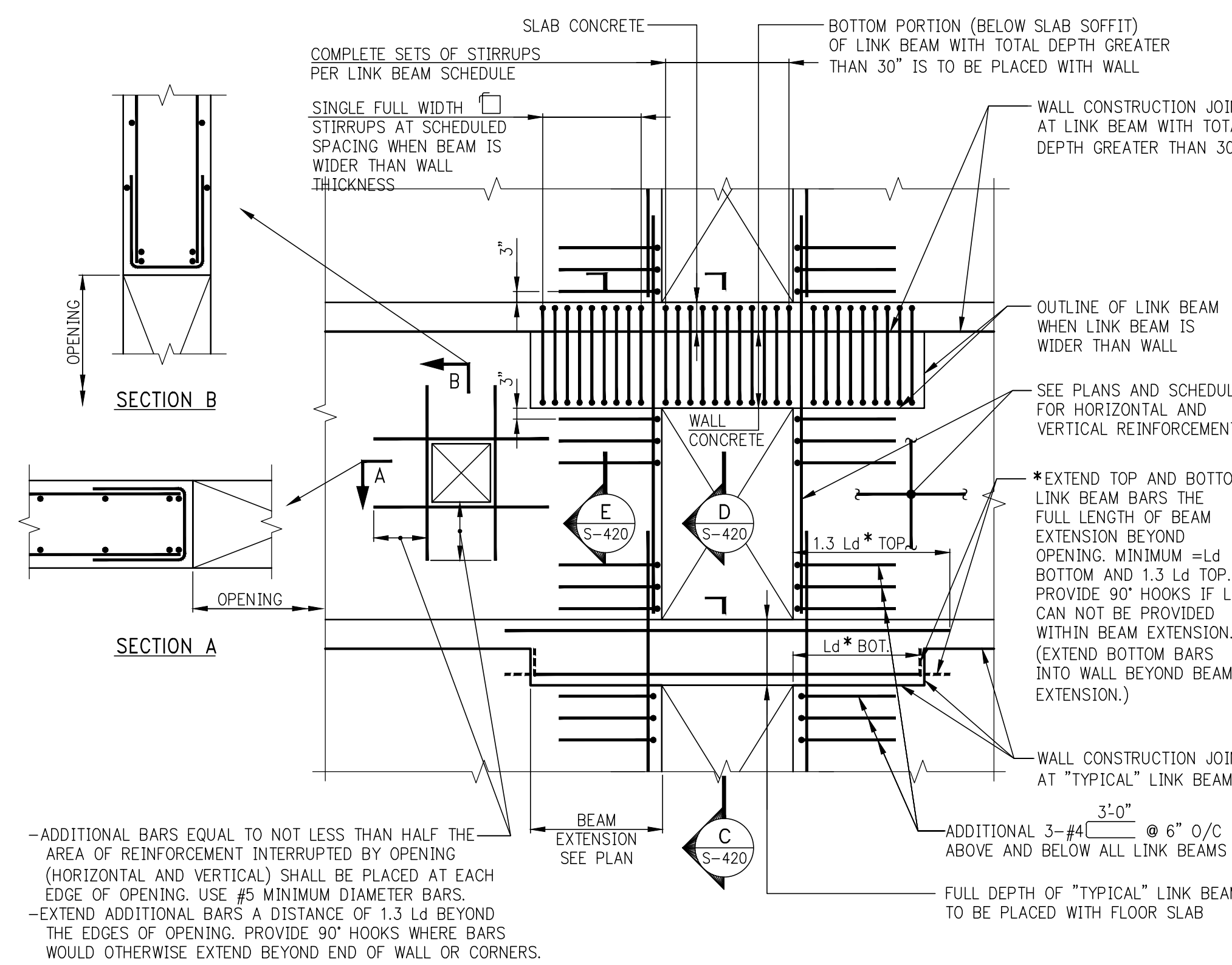
NOTES:

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.

DOB EMPLOYEE STAMP:	DOB B-SCAN:
---------------------	-------------



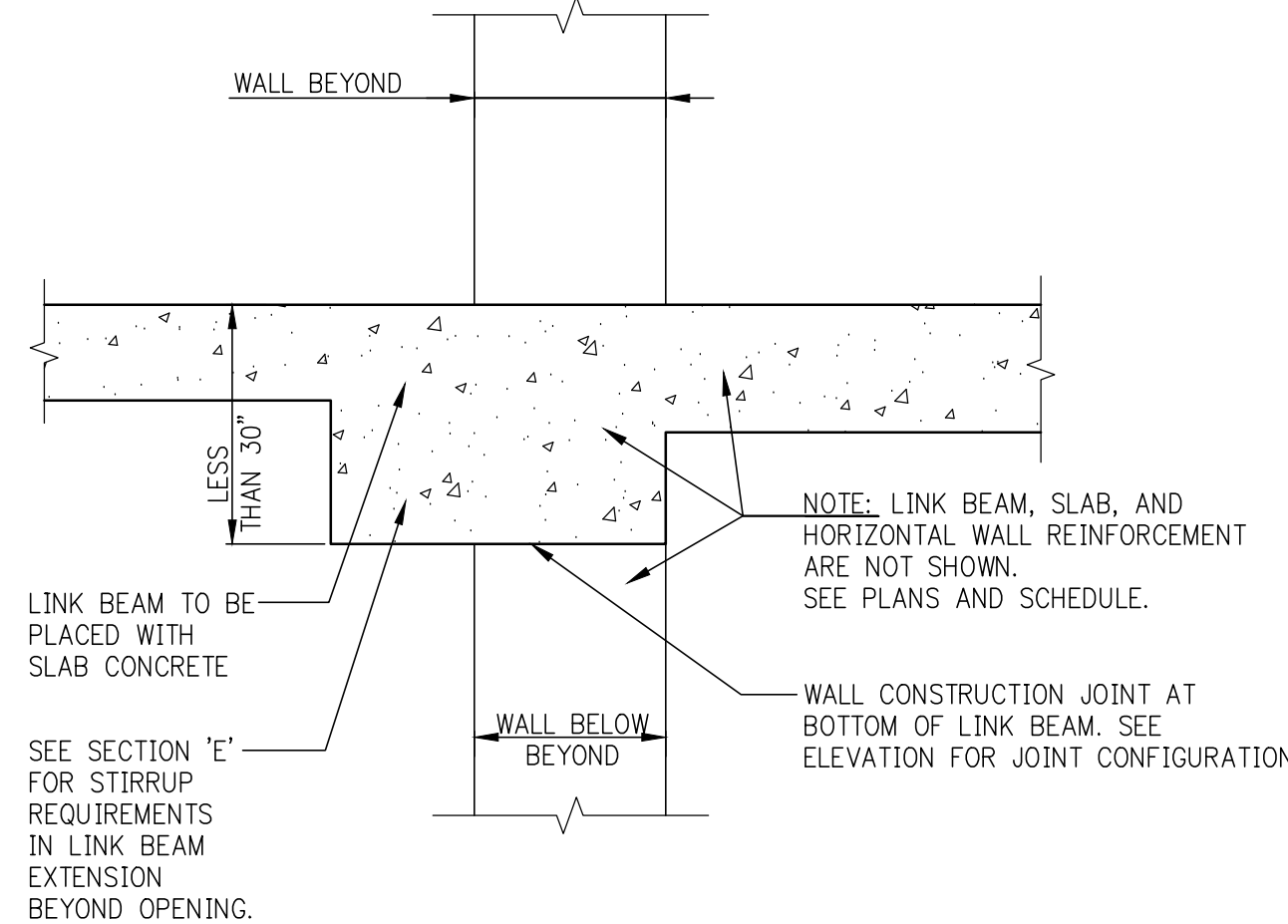
1
FO-401



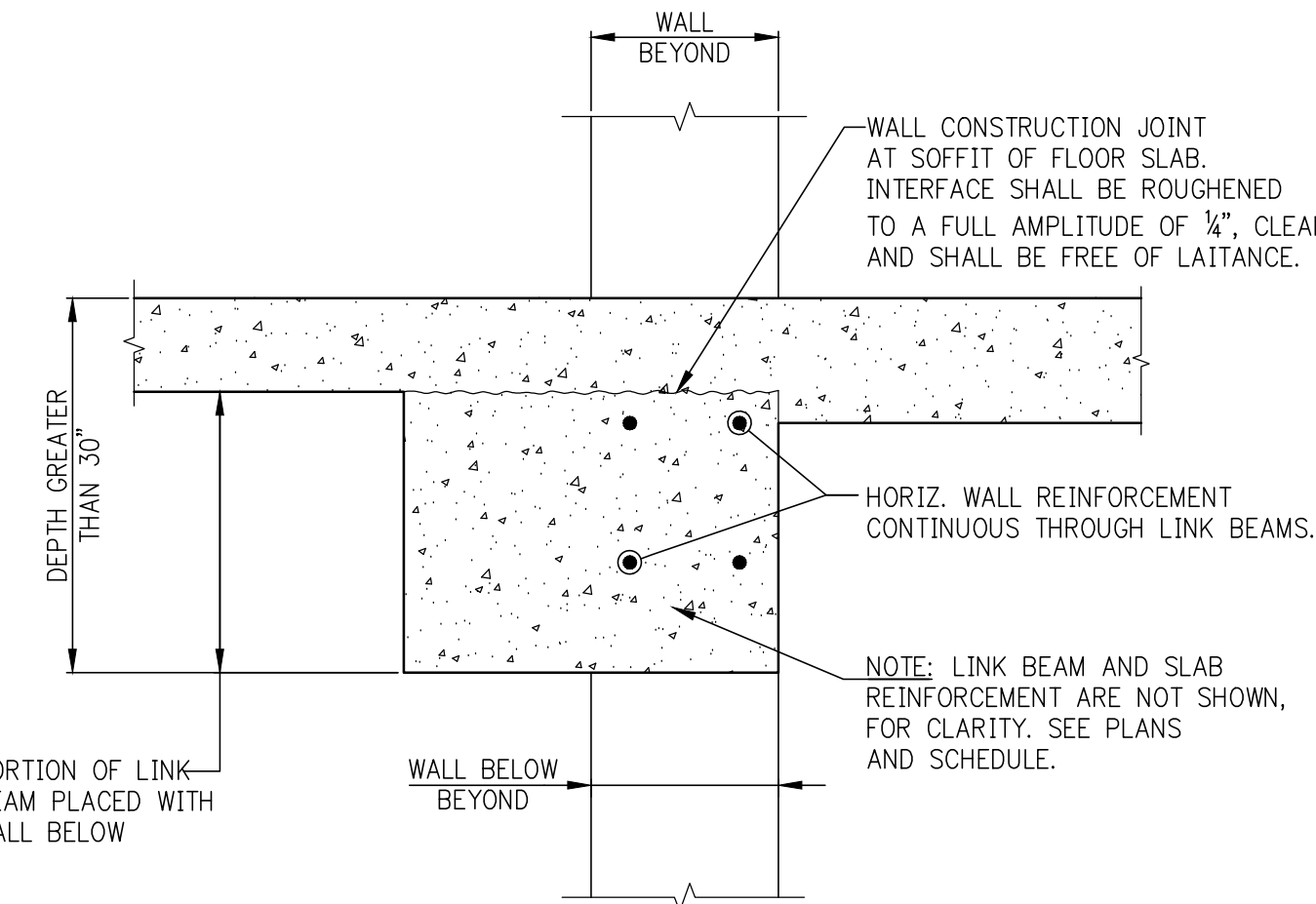
TYPICAL REINFORCEMENT AT LINK BEAMS AND AROUND SHEARWALL OPENINGS

SHEARWALL NOTES:

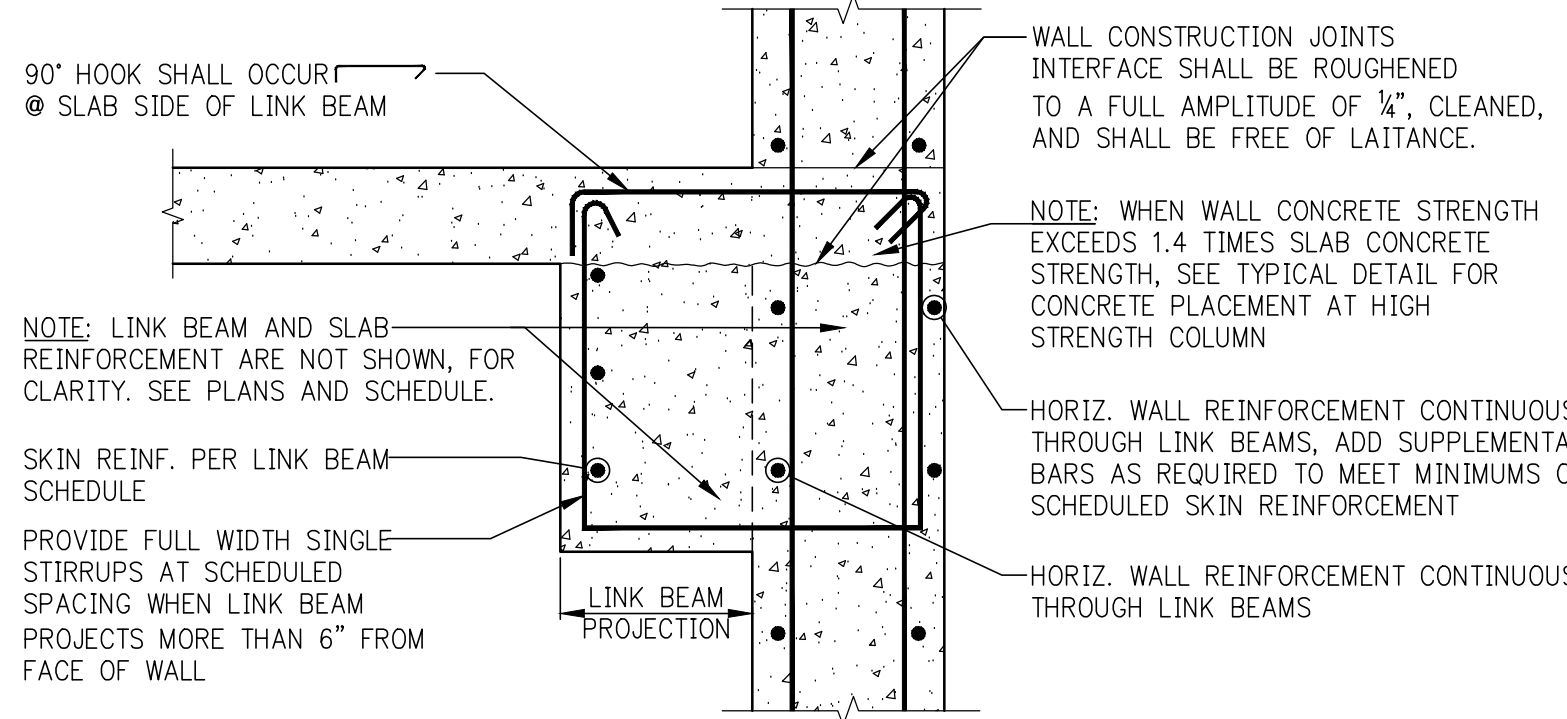
1. ALL SHEARWALL REINFORCEMENT (HORIZONTAL AND VERTICAL) IS TO BE TENSION LAP SPICED. SEE LAP SPICE IN S-960 SERIES DRAWINGS.
2. ALL NON-TYPICAL VERTICAL BARS UNSUPPORTED BY A LATERAL TIE SHALL BE SPACED NO MORE THAN 6" CLEAR ON BOTH SIDES FROM SUCH LATERALLY SUPPORTED BARS.
3. ALTERNATE 90° AND 135° ENDS ON CONSECUTIVE SINGLE LEG CROSSTIES THROUGHOUT HEIGHT OF WALL.
4. FOR MINIMUM TYPICAL REINFORCEMENT SEE SCHEDULE ON THIS DRAWING.
5. WHERE HEAVIER REINFORCEMENT IS SHOWN ON S-400 SERIES ELEVATIONS OR DETAILS, THE HEAVIER REINFORCEMENT SHALL BE USED IN LIEU OF REINFORCEMENT SHOWN ON SHEARWALL PLANS, UNLESS NOTED AS "ADDITIONAL". (AN ASTERISK (*) MAY BE SHOWN TO DENOTE SUCH SUBSTITUTIONS).
6. NO OPENING OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS MAY BE PLACED WITHOUT APPROVAL OF THE ENGINEER OF RECORD.
7. CONTRACTOR SHALL SUBMIT CONSOLIDATED SHOP DRAWINGS FOR ALL OPENINGS PROPOSED (SUCH AS STRUCTURAL, ARCHITECTURAL, MEP) TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
8. NO VERTICAL CONSTRUCTION JOINTS ARE PERMITTED IN SHEARWALLS WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER OF RECORD. KEYS AND DOWELS MUST BE AS DEFINED BY THE E.O.R.
9. SEE PLANS AND ELEVATIONS FOR SHEARWALL LOCATIONS, DIMENSIONS, REINFORCEMENT, OPENINGS, LINK BEAM LOCATIONS, ETC.
10. FOR LINK BEAM SIZES SEE LINK BEAM SCHEDULE IN S-440 SERIES DRAWINGS.
11. SEE COLUMN SCHEDULES ON S-500 SERIES DRAWINGS FOR CONCRETE STRENGTH REQUIRED AT EACH LEVEL.
12. FOR MINIMUM REQUIRED MODULUS OF ELASTICITY OF CONCRETE, SEE SCHEDULE ON THIS DRAWING.



C SECTION THROUGH LINK BEAM PLACED WITH SLAB
FO-420



D SECTION THROUGH LINK BEAM WITH DEPTH >30" PLACED PARTIALLY WITH WALL
FO-420



E SECTION THROUGH WALL AT LINK BEAM EXTENSION BEYOND OPENING
FO-420

*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	#5@10
34+ TO 40	#7@12
40+ TO 48	#7@10
48+ TO 52	#8@12
52+ TO 60	#8@10
60+ TO 66	#9@12

*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.

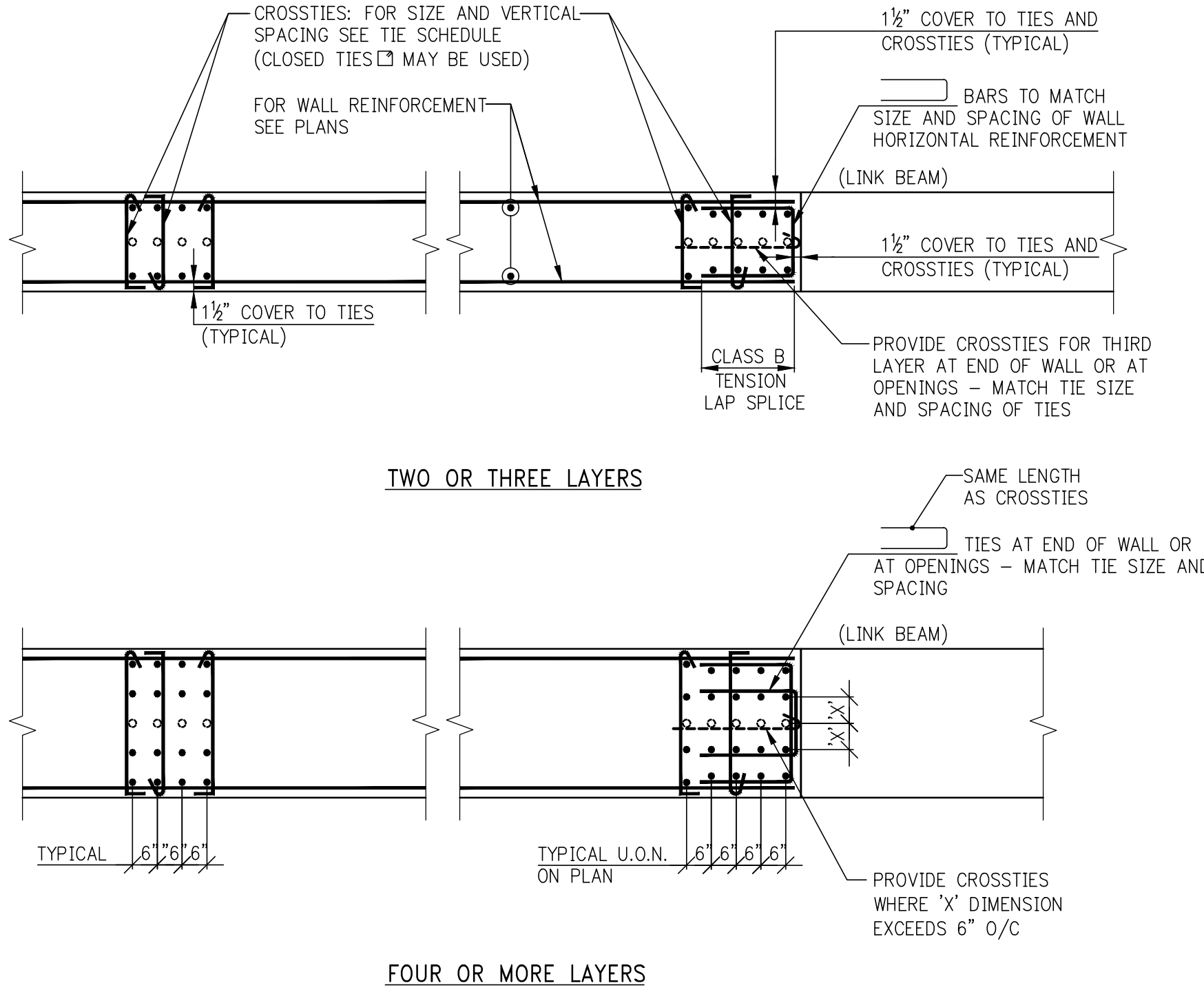
SHEARWALL TIE SCHEDULE

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, #18, #20	24

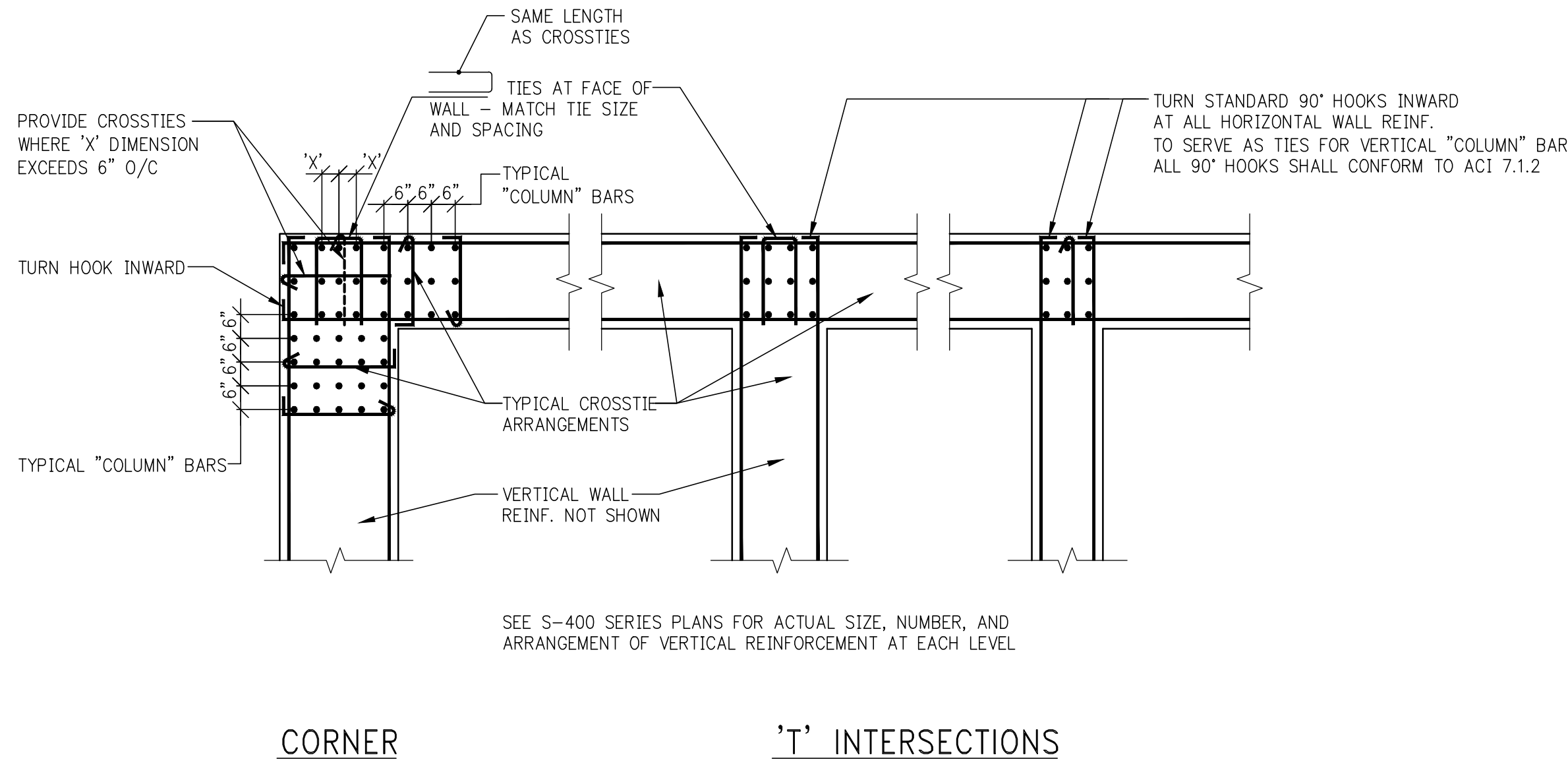
NOTES:
1. LOCATE LOWEST SET OF TIES S/2 ABOVE TOP OF SLAB.
2. LOCATE TOP SET OF TIES WITHIN S/2 OF BOTTOM REINFORCEMENT IN SLAB OR LINK BEAM.

SHEARWALL CONCRETE MINIMUM REQUIREMENTS	
COMPRESSIVE STRENGTH f'c (ksi)	MODULUS OF ELASTICITY E (ksi)
10	5700
12	6244
14	6744

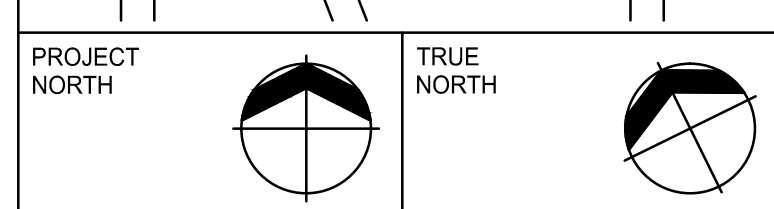
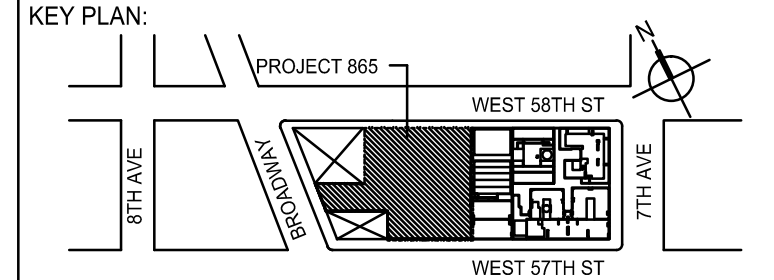
NOTE: COLUMN CONCRETE STRENGTH REQUIRED AT EACH LEVEL IS DEFINED ON THE COLUMN SCHEDULE(S) IN THE S-950 SERIES DRAWINGS.



TIE ARRANGEMENTS AT "COLUMN" VERTICAL REINFORCEMENT



CORNER 'T' INTERSECTIONS



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:

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 8888 FAX: 646 487 5501

MEP ENGINEERS: **AKF GROUP**
1501 Broadway
New York, NY 10036 USA
TEL: 212 354 5658 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**
180 Church Street
New York, NY 10007
TEL: 212 385 1915 FAX: 212 385 1911

CURTAINWALL CONSULTANT: **AJLP Consulting**
40 Worth 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
1	SCHEMATIC DESIGN	05-31-2014
2	ISSUED FOR SCHEMATIC DESIGN	04-04-2014
3	FOUNDATION BID PACKAGE	04-04-2014
4	STEEL BID PACKAGE	05-22-2014
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	08-19-2014
9	CD PROGRESS ISSUE 1	10-15-2014
10	ISSUED FOR CONSTRUCTION UP TO 5TH FL ONLY	11-07-2014
11	DOB SUBMISSION	12-19-2014
12	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.

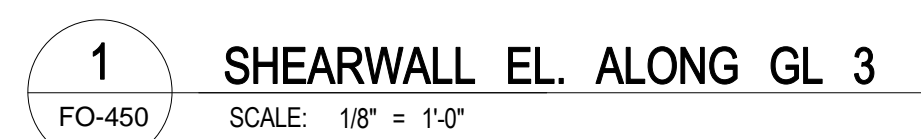
ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

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

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

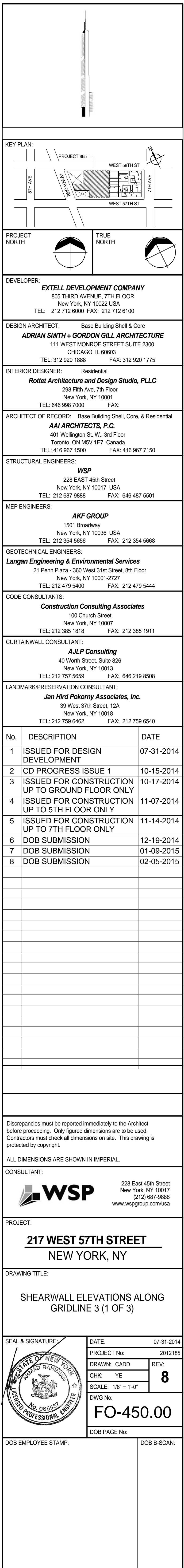
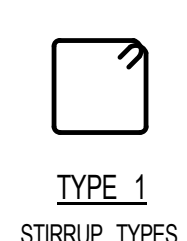
DRAWING TITLE: **TYPICAL CONCRETE SHEAR WALL DETAILS**

SEAL & SIGNATURE:	DATE: 03/31/14
	PROJECT No: 2012185
	DRAWN: CADDO REV: 12
	CHK: Y. E. E. SCALE: AS INDICATED
	DWG No: FO-430.00
DOB PAGE No: of	DOB B-SCAN:



NOTES

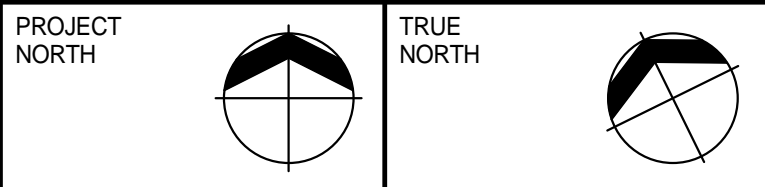
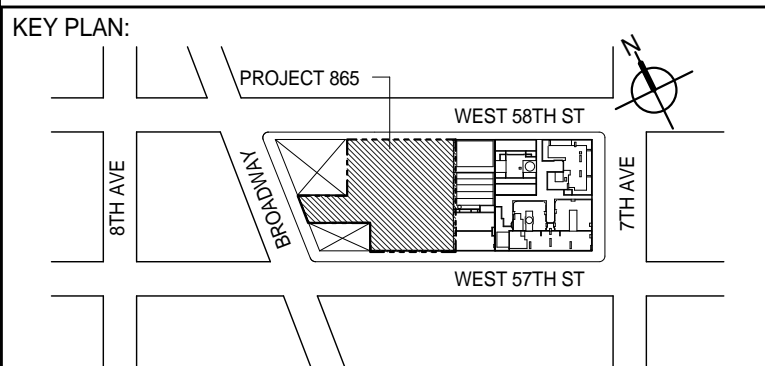
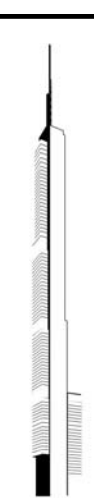
1. ALL REINFORCEMENT SHOWN ON THESE ELEVATIONS IS IN ADDITION TO REINFORCEMENT SHOWN PLANS IN S-400 SERIES DRAWINGS.
2. *** INDICATES REINFORCEMENT SHOWN ON ELEVATION IS TO BE USED IN LIEU OF REINFORCEMENT SHOWN ON PLAN.
3. FOR HORIZONTAL REINFORCEMENT IN FOUNDATION WALLS USE THE MORE ONEROUS OF THE STANDARD SHEARWALL REIN. SCHEDULE ON S-400 OR AS SHOWN ON FOUNDATION WALL SECTIONS ON F-400 SERIES.
4. ALL #1 VERTICAL REIN. SHALL BE GRADE 75.
5. FOR VERTICAL DETAILS SEE DRAWINGS S-430.





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

NOTES:
1. FOR NOTES SEE DRAWING S-450



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
AAI 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 9888 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 1818 FAX: 212 385 1911

CURTAINWALL CONSULTANT:
AJLP Consulting
40 Worth Street, Suite 828
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	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	01-09-2015
7	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:

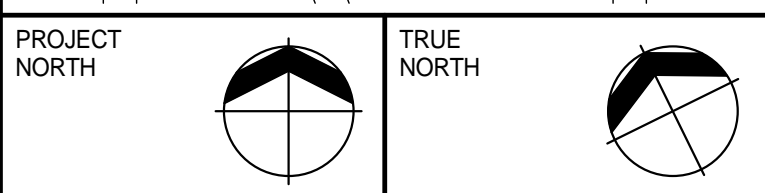
217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:

SHEARWALL ELEVATIONS ALONG
GRIDLINE 4 (1 OF 3)

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

DOB EMPLOYEE STAMP:		DOB B-SCAN:
---------------------	--	-------------



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
AAI 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 9888 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 1818 FAX: 212 385 1911

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

[illegible]

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 ELEVATIONS ALONG
GRIDLINE C (1 OF 3)

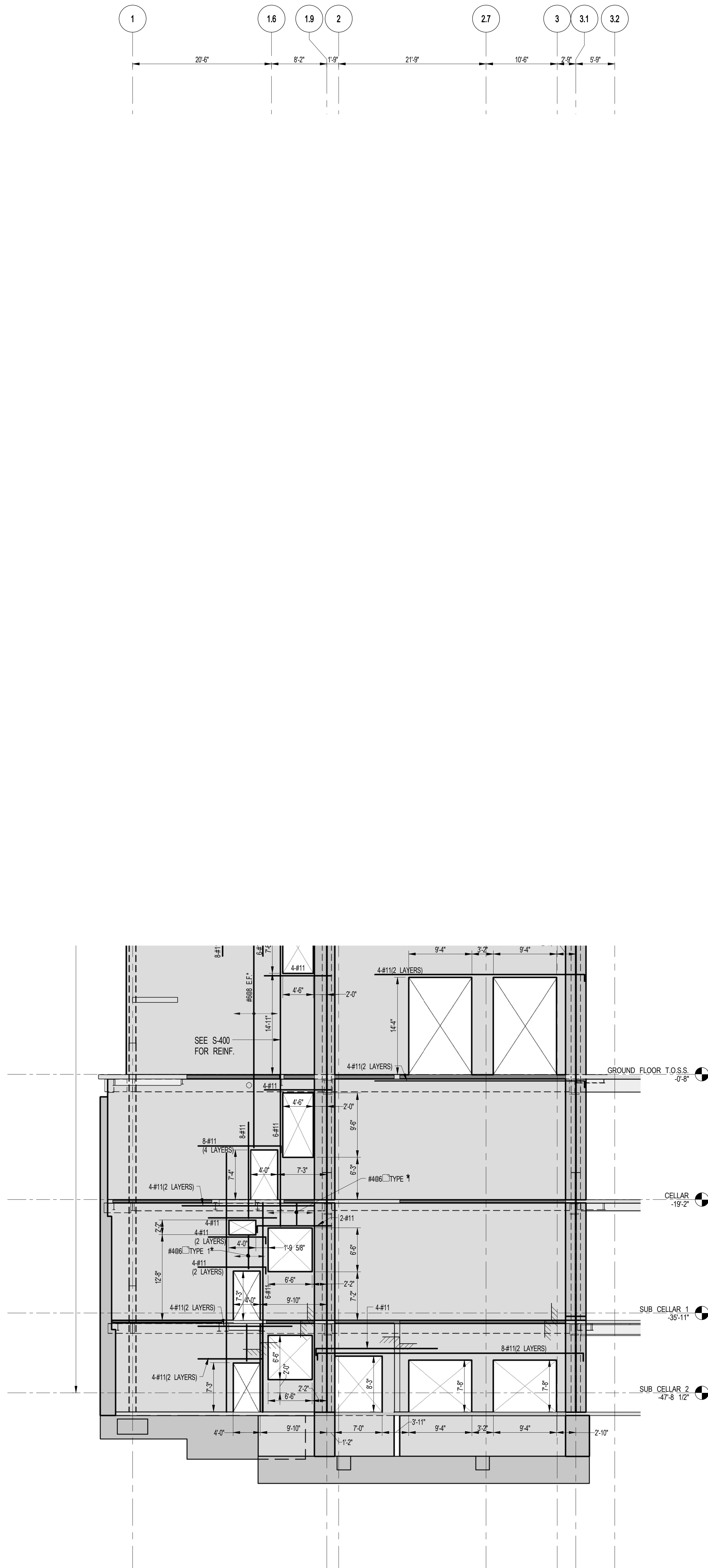
SEAL & SIGNATURE 	DATE: 10-15-2014	
	PROJECT No: 2012185	
	DRAWN: CADD	REV:
	CHK: YE	7
	SCALE: 1/8" = 1'-0"	
	DWG No:	

FO-459.00

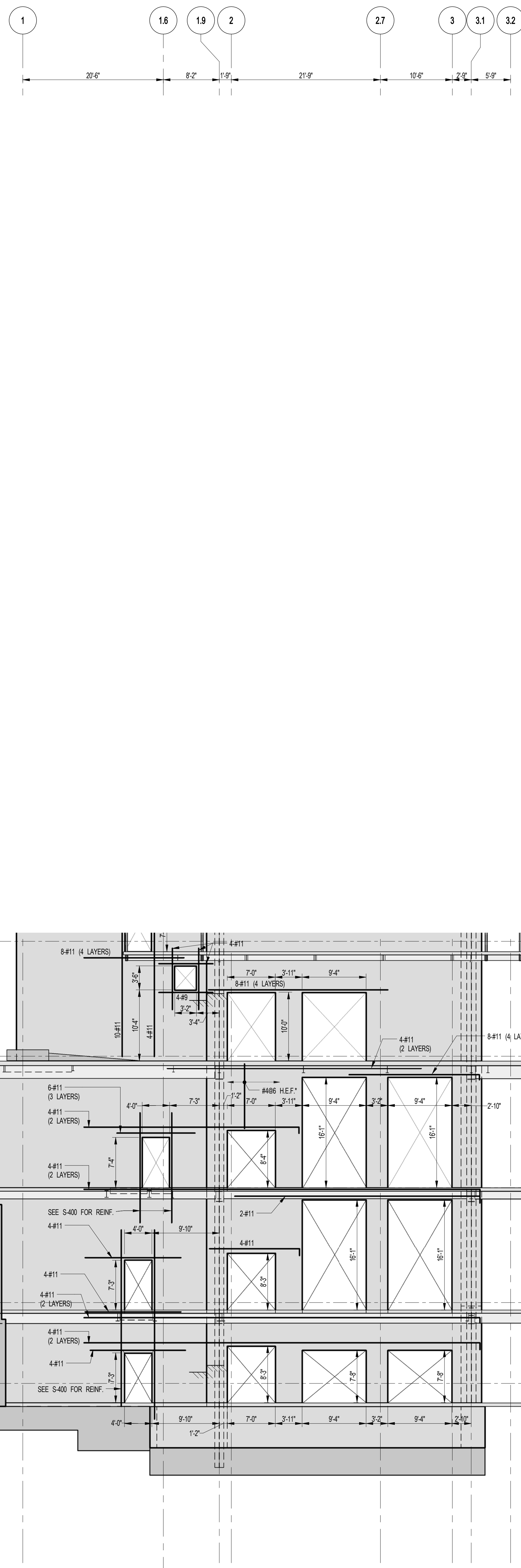
DOB EMPLOYEE STAMP:		DOB B-SCAN:
---------------------	--	-------------



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 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

208 Fifth Ave., 7th Floor

NEW YORK, NY 10001

TEL: 646 989 7000 FAX:

ARCHITECT OF RECORD:

Base Building Shell, Core, & Residential

AJAJ ARCHITECTS, P.C.

4011 WILKINGTON 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 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 6462 FAX: 212 759 6540

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

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) 687-9885
www.wspgroup.com/usa

PROJECT:

217 WEST 57TH STREET

NEW YORK, NY

DRAWING TITLE:

SHEARWALL ELEVATIONS ALONG GRIDLINES G & G.4

SEAL & SIGNATURE

DATE: XX-XX-XX

PROJECT No: 2012185

DRAWN: CADDO

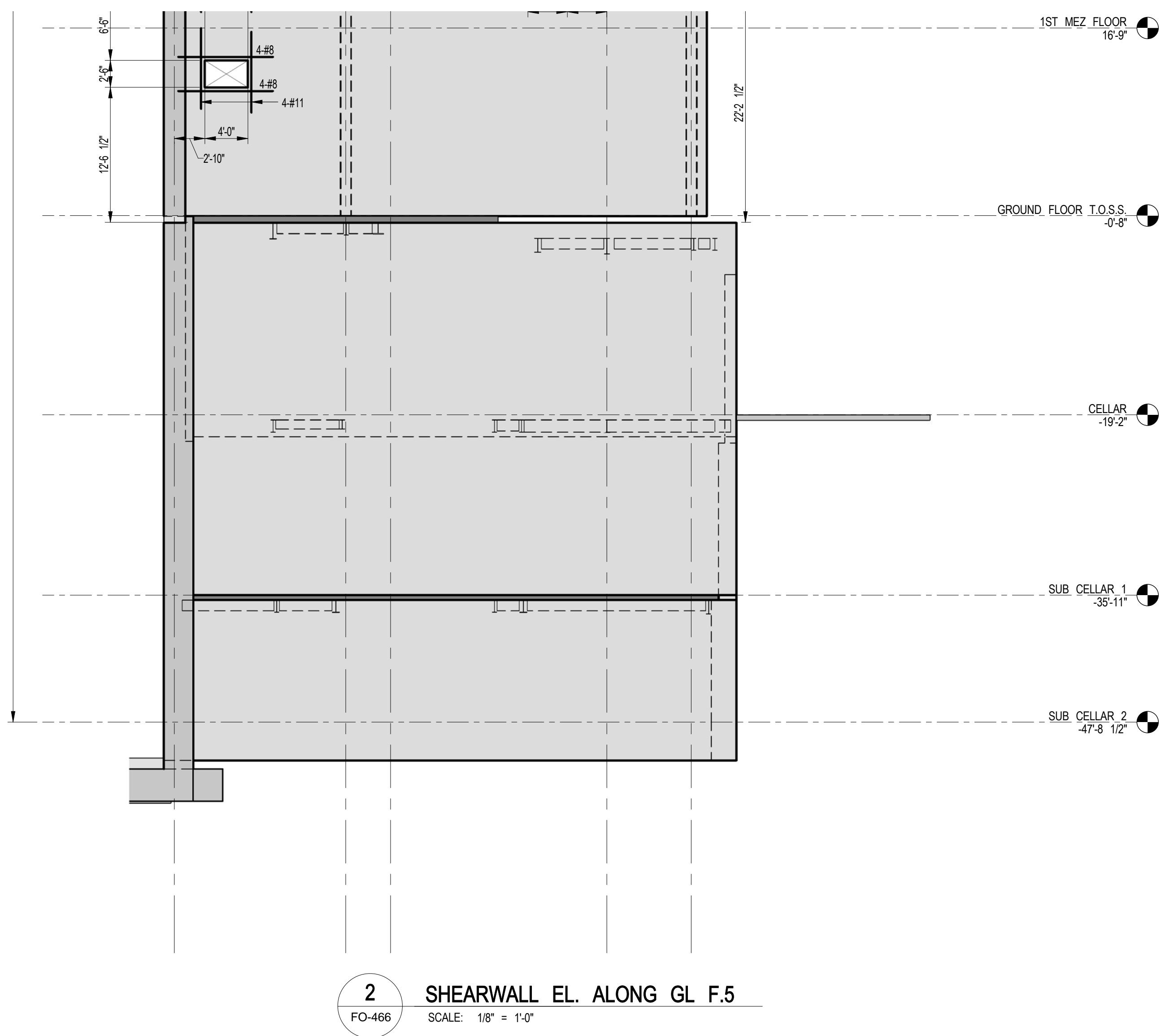
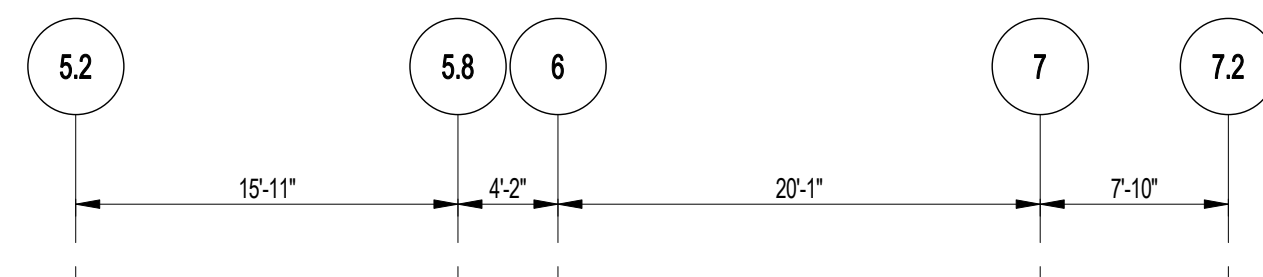
CHK: YE

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

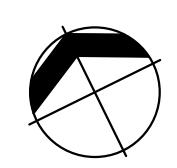
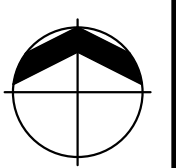
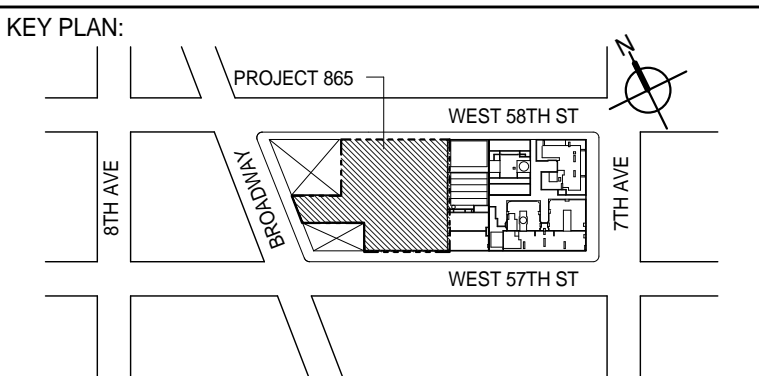
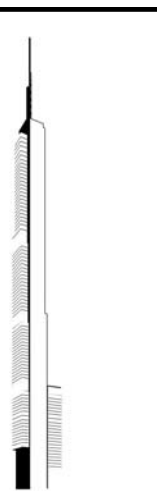
DWG No: FO-463.00

DOB PAGE No:

DOB 5-SCAN:



NOTES:
1. FOR NOTES SEE DRAWING S-450



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
AAI 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 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:
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 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	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

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: _____



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

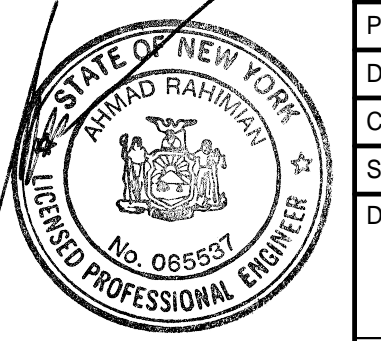
PROJECT:

217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:

SHEARWALL ELEVATIONS ALONG
GRIDLINE A & F.5

SEAL & SIGNATURE:	DATE:	XX-XX-XX
-------------------	-------	----------



DATE: XX-XX-XX

PROJECT No: 2012185

RAWN: CADD	REV:
------------	------

HK: YE	5
DATE: 10/10/2010	

SCALE: 1/8 = 1'-0"	
UIC No.	




БД 466 00

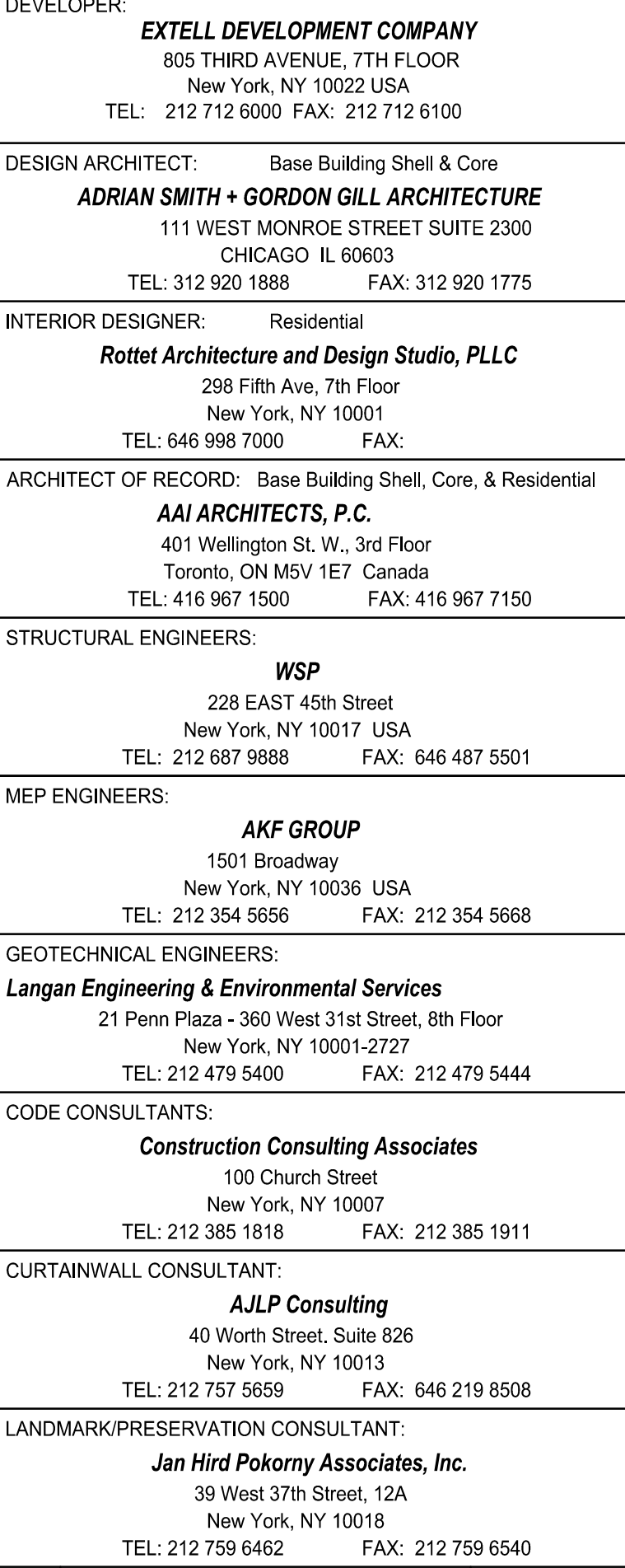
FC-466.00

OB PAGE No:

DOB B-SCAN:

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. CONCRETE STRENGTH REQUIRED FOR ALL 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. PG-001
8. FOR SHEARWALL DETAILS SEE DRAWING S-430.
9. FOR COLUMN AND REINFORCING DETAILS SEE DRAWING S-513.
10. BUTTRESS INDICATED AS "B" IN COLUMN SCHEDULE
11. ALL #1 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.



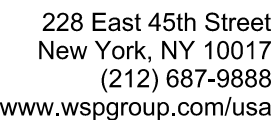
No.	DESCRIPTION	DATE
1	SUPERSTRUCTURE CONCRETE BID	06-02-2014
2	DESIGN DEVELOPMENT	07-01-2014
3	ISSUED FOR DESIGN DEVELOPMENT	07-31-2014
4	CD PROGRESS ISSUE 1	10-15-2014
5	ISSUED FOR CONSTRUCTION UP TO 5TH FL ONLY	11-07-2014
6	DOB SUBMISSION	12-19-2014
7	DOB SUBMISSION	02-05-2015

[illegible]

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



PROJECT:

217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE

CONCRETE COLUMN SCHEDULE 1

SEAL & SIGNATURE

DATE:	03/31/14
PROJECT No:	2012185

DDA105: CAD2

DRAWN: CADS	
DATE: 11/1/90	BY: J. J. J.

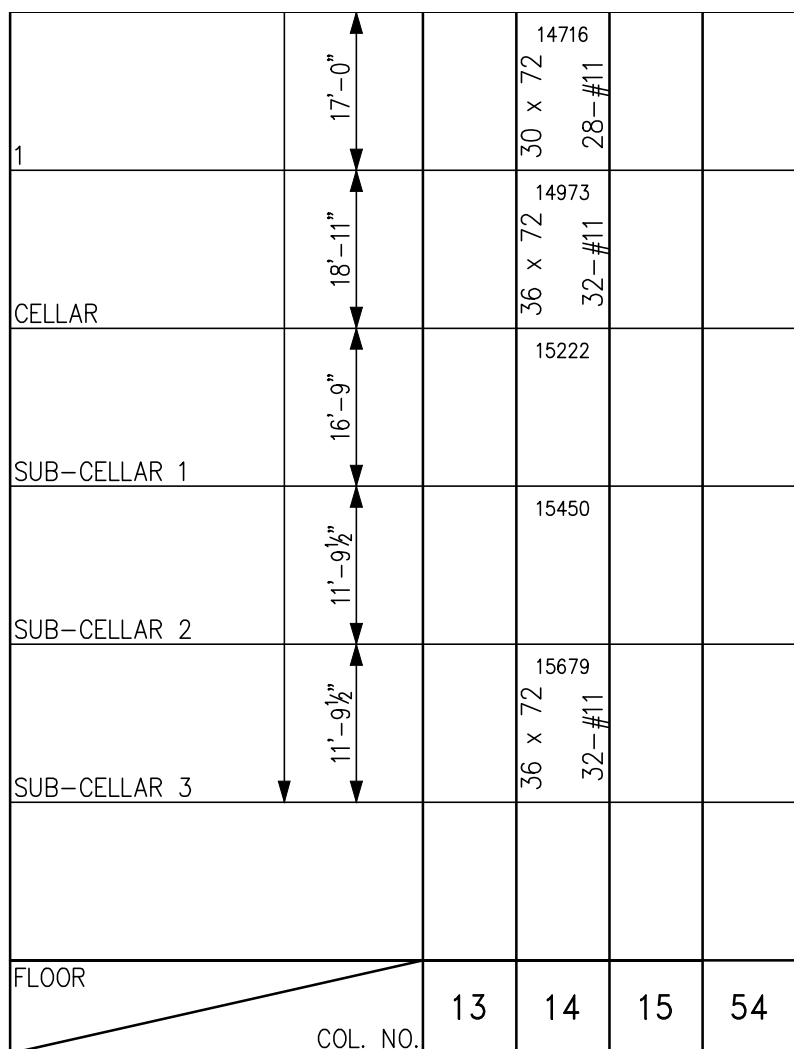
CHK: Y.E.

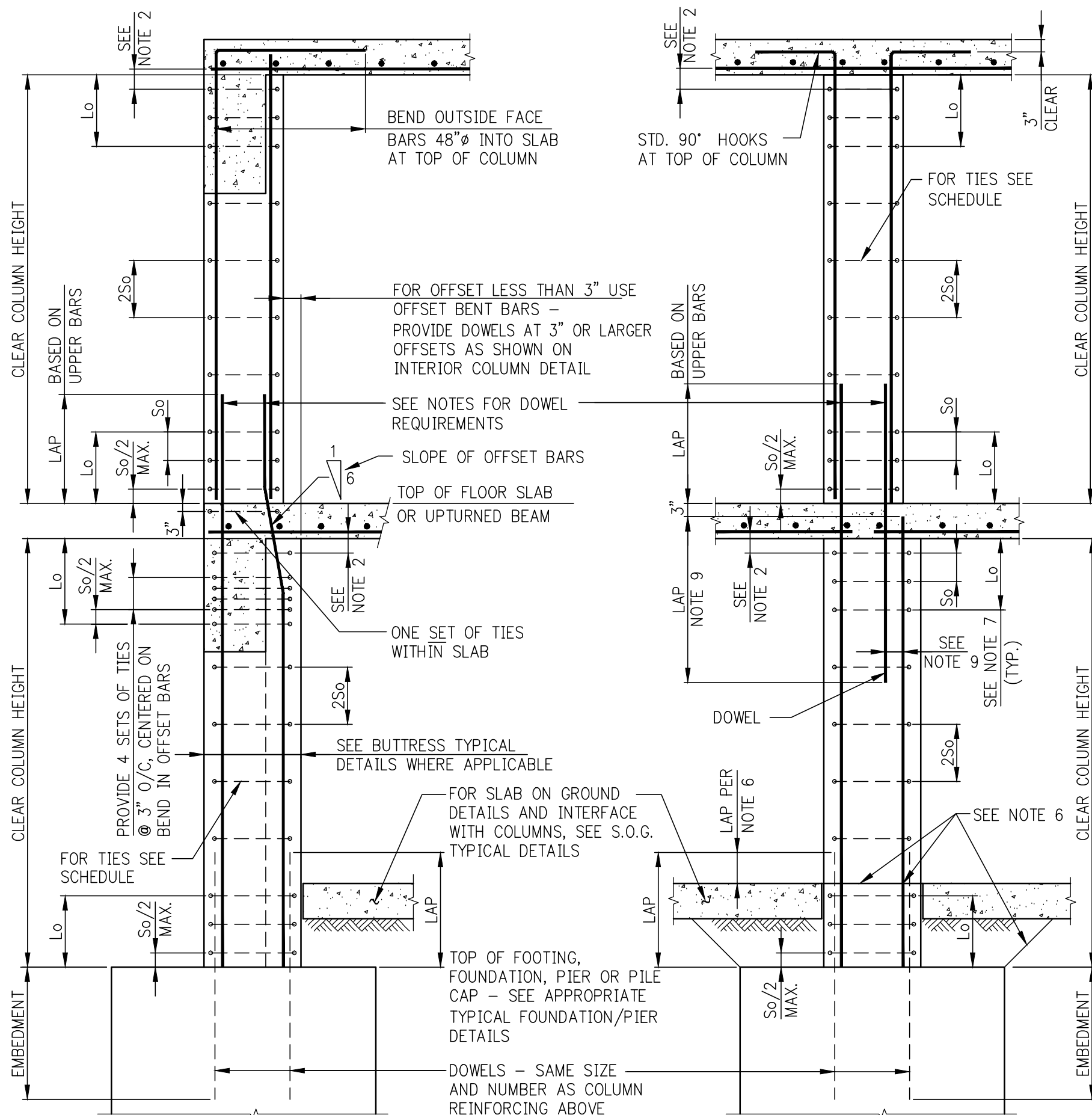
SCALE: AS INDICATED

DWG No:
FO-510.00

DOB PAGE No. of

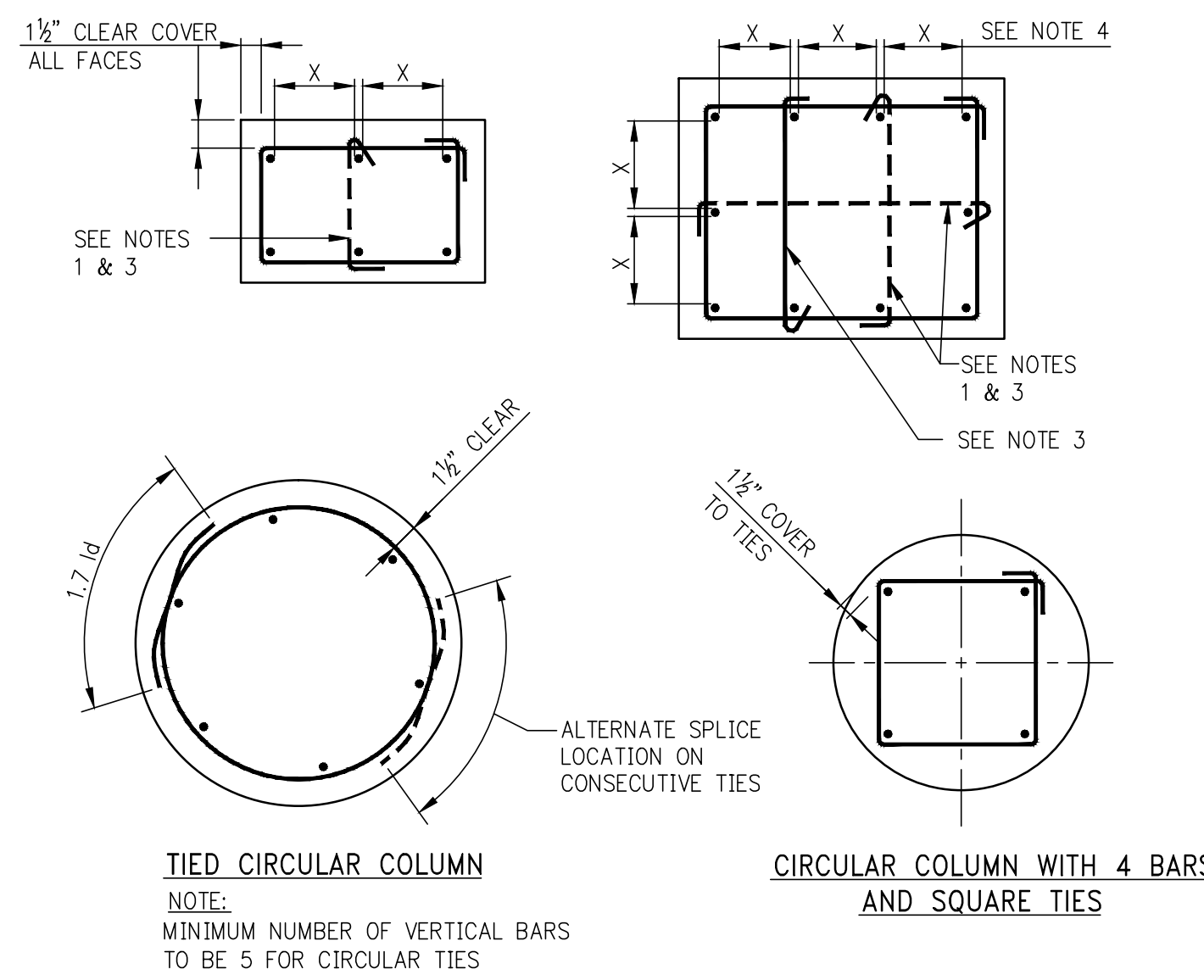
DCB R SCAR





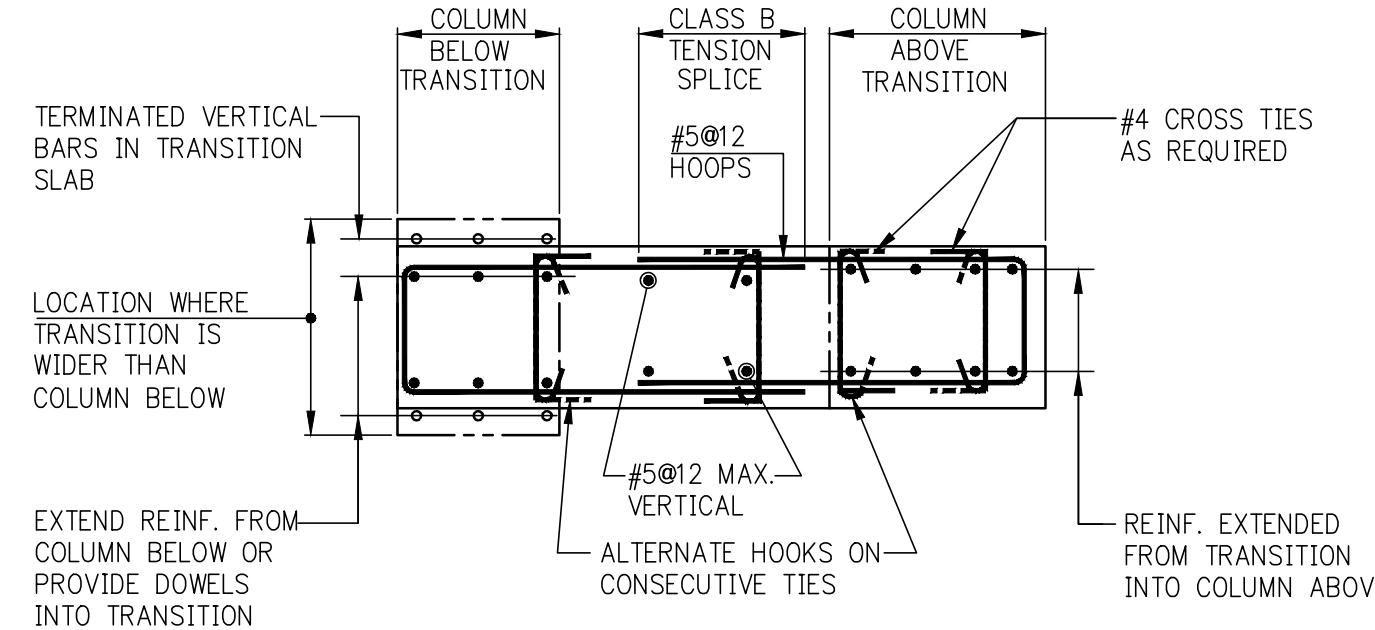
- NOTES:**
- #3 TIES NOT PERMITTED FOR #11, #14, #18 OR BUNDLED VERTICAL BARS.
 - LOCATE TOP SET OF TIES $S_o/2$ MAXIMUM BELOW THE LOWEST HORIZONTAL REINFORCEMENT IN SLAB OR DROP PANEL. WHERE BEAMS FRAME FROM FOUR DIRECTIONS INTO COLUMN, TIES MAY TERMINATE NOT MORE THAN 3" BELOW LOWEST REINFORCEMENT 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		
	#3	#4	#5
#5	5	-	-
#6	6	-	-
#7	7	-	-
#8	8	8	-
#9	9	9	-
#10	9	10	-
#11	-	11	11
#14	-	12	12
#18	-	12	12

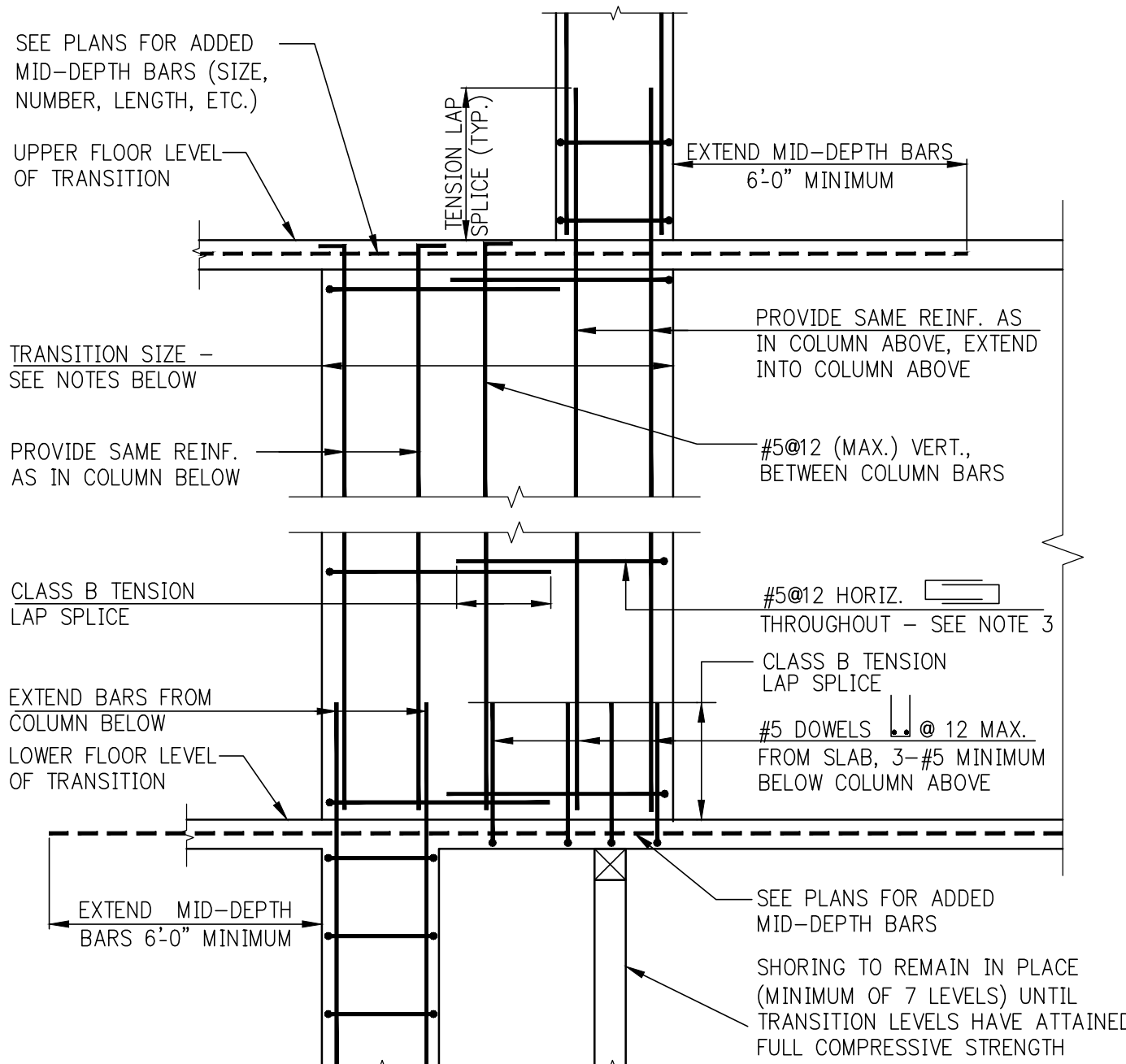
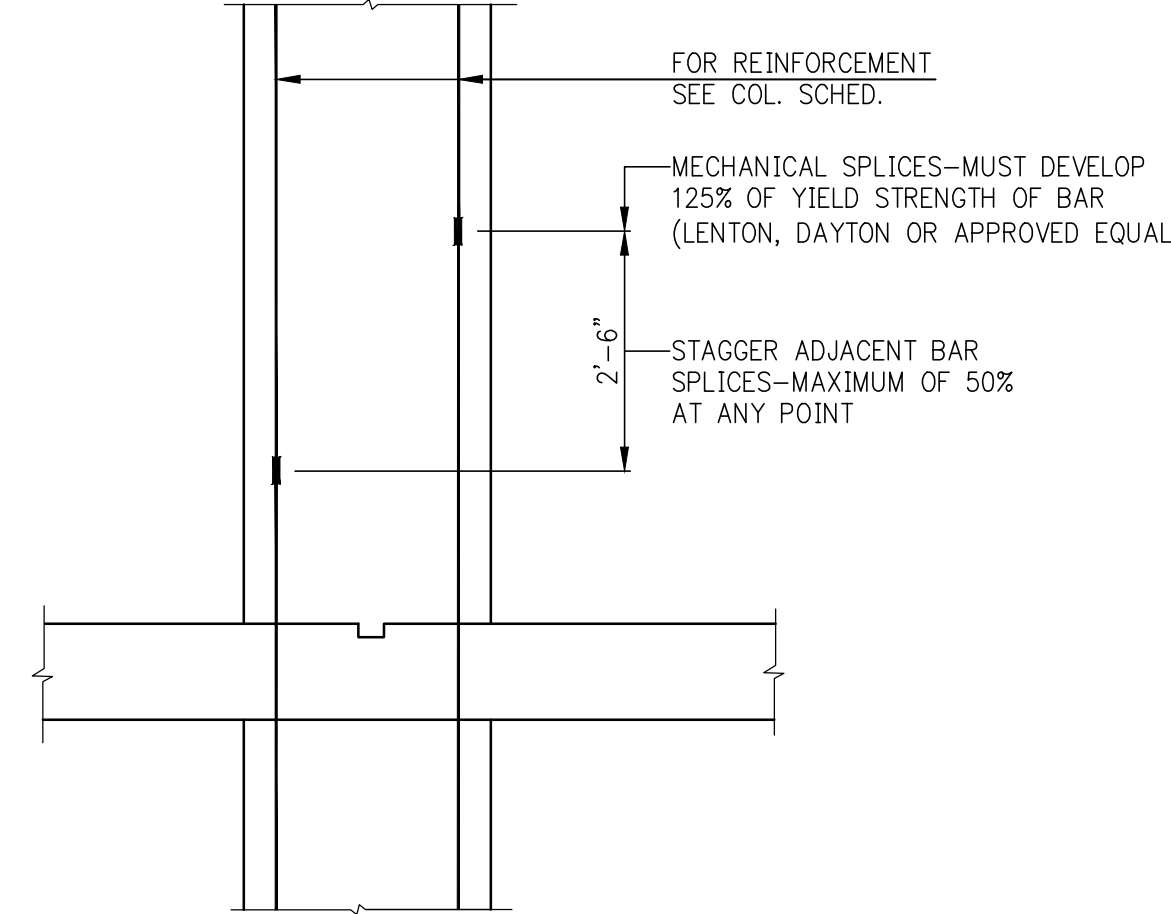


COLUMN REINFORCEMENT AND TIES ARRANGEMENT

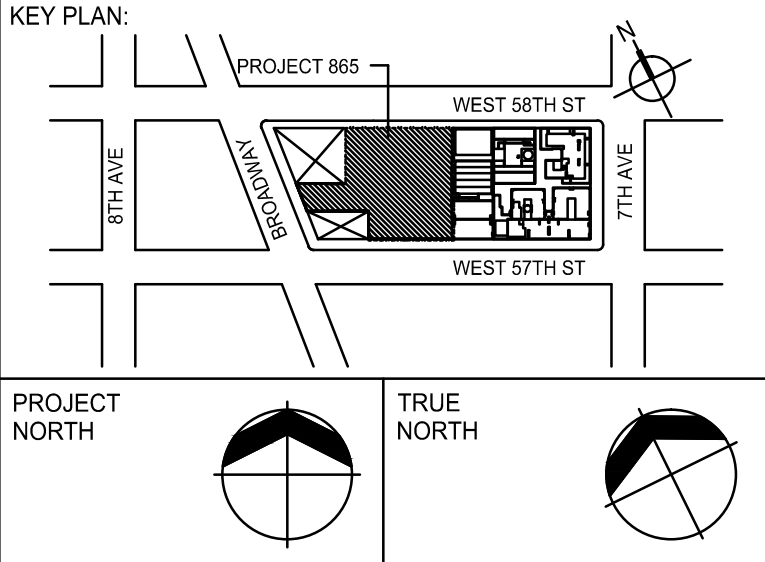
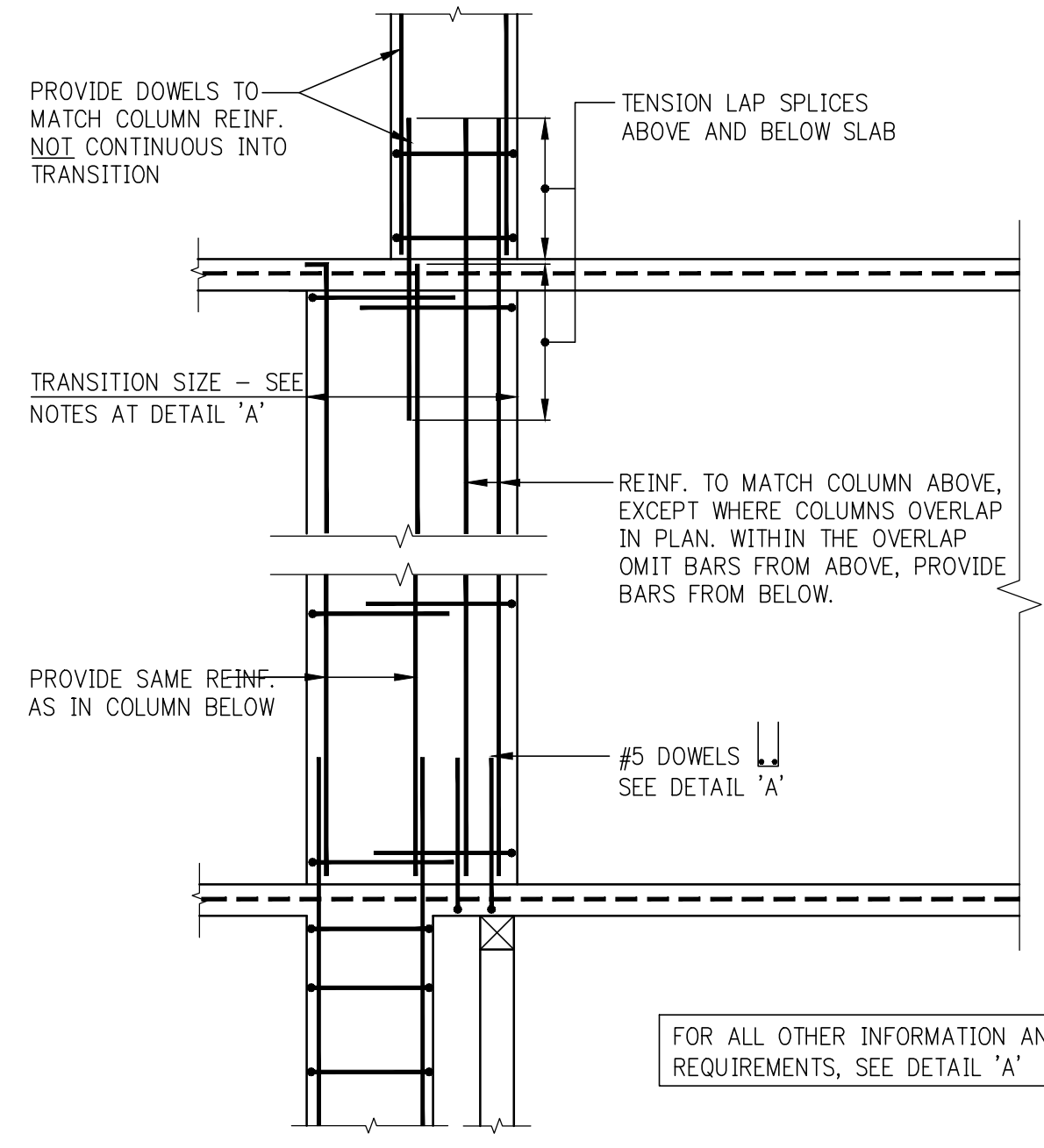
- NOTES:**
- SINGLE LEG CROSS-TIES SHOWN DASHED MAY BE OMITTED WHEN THE VERTICAL BAR IS NO FARTHER THAN 6" CLEAR ON EACH SIDE FROM ADJACENT TIED BARS.
 - WHEN THERE IS A SERIES OF VERTICAL BARS (SUCH AS IN WALL-LIKE COLUMNS) AND BARS ARE SPACED NOMINALLY AT 6" O/C, EVERY OTHER VERTICAL BAR WILL REQUIRE 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 SPLICE 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.



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 7000

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 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**
180 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 8650 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	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

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) 687-8888
www.wspgroup.com/usa

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: CADD REV: 12
	CHK: Y.E.
	SCALE: AS INDICATED
DWG No: FO-513.00	
DOB PAGE No: of	DOB B-CAN:



MINIMUM SHEAR REINFORCEMENT FOR DEEP BEAMS ($D \geq L_n/4$)			
b=BEAM WIDTH	MINIMUM STIRRUPS (A_v) (SPACING = S_v)	MINIMUM \bar{D} BARS (A_n) (SPACING = S_2)	
UP TO 12"	1-#3 @ 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		

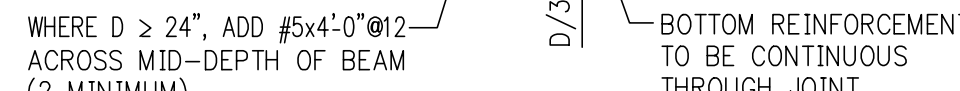
* PER ACI 11.8.4 AND 11.8.5, SPACINGS S AND S_2 "SHALL NOT EXCEED $D/5$, NOR 12 INCHES."



SLEEVE PENETRATIONS THROUGH BEAMS

NOTES:

1. ALL SCHEDULED BEAM REINFORCEMENT (NOT SHOWN) IS TO BE CONTINUOUS.
2. NO OPENINGS LARGER THAN 4" (SQUARE OR ROUND) ARE PERMITTED UNLESS SPECIFICALLY INDICATED ON STRUCTURAL PLANS.



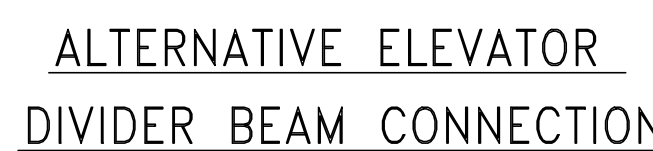
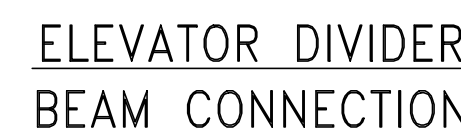
ELEVATION - BEAM CONSTRUCTION JOINT

NOTE

CONTRACTOR MUST SUBMIT LOCATIONS OF ALL CONSTRUCTION JOINTS
TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.



NOTE:
SHEAVE BEAMS TO BE SET BY ELEVATOR CONTRACTOR



DEEP BEAM FRAMING INTO SHALLOW BEAM



BEAM SUPPORT BRACKET AT END OF WALL



NOTES

3. WHERE BARS ARE PLACED IN TWO LAYERS THE MINIMUM CLEAR DISTANCE BETWEEN LAYERS SHALL BE 18".
4. BEAM REINFORCEMENT SHALL BE LOCATED LATERSALLY AS REQUIRED TO CLEAR COLUMN VERTICAL REINFORCEMENT.
5. WHERE BARS MEET AND CROSS EACH OTHER AT A SUPPORT, THE SHALLOWER BEAM SHALL HAVE ITS TOP REINFORCEMENT PLACED IN THE OUTERMOST (TOP) LAYER.
6. IN THE EVENT ONE CROSSING BEAM IS A CANTILEVER, THE CANTILEVER BEAM SHALL HAVE ITS TOP REINFORCEMENT PLACED IN THE OUTERMOST (TOP) LAYER.
7. WHERE F BARS (FACE OR "SUN" BARS) ARE INDICATED IN THE BEAM SCHEDULE, THEY SHALL BE UNIFORMLY SPACED ON BOTH BEAM FACES AND SHALL BE CONTINUOUS, WITH STAGGERED TENSION SPLICES.
8. SEE SCHEDULE OF SHEAR REINFORCEMENT FOR DEEP BEAMS ($D \geq L/4$) FOR MINIMUM STIRRUP AND FACE BAR REQUIREMENTS.
THE FIRST STIRRUP AT EACH END SHALL BE PLACED AT $\frac{1}{4}$ THE FIRST END SPACE FROM THE FACE OF SUPPORT MEMBER.
SUBSEQUENT STIRRUPS SHALL BE SPACED AS INDICATED IN THE BEAM SCHEDULE.
9. WHERE MORE THAN ONE STIRRUP IS INDICATED IN A SET, PLACE EACH SET AT THE SCHEDULED SPACING.
10. SCHEDULED STIRRUP SPACING IS THE SAME AT EACH END UNLESS OTHERWISE NOTED.



NOTE: FOR LOCATION SEE ARCH. MECH. DWGS



NOTE: FOR LOCATION SEE ARCH. MECH. DWGS



(SLAB NOT SHOWN)



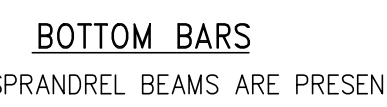
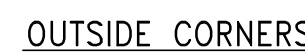
(SLAB NOT SHOWN)

NOTE (C) :
IF LAP LENGTH OF LOWER ADDITIONAL TOP BARS (D_4) EXTENDS BEYOND THE CUTOFF LENGTH, THEN ADDITIONAL TOP BARS NEED NOT BE PLACED AT TOP OF DEEPER PORTION OF BEAM (D_2)

NOTE ① :
IF DROP OCCURS BEYOND THE CUTOFF LENGTH OF
UPPER LEVEL ADDITIONAL TOP BARS (D_1), THEN
ADDITIONAL TOP BARS NEED NOT BE PLACED IN
SHALLOWER PORTION OF BEAM (D_2)

NOTE (A):
IF DISCONTINUOUS BOTTOM BARS ARE CUT OFF WITHIN
SPLICE LENGTH OF CONTINUOUS BOTTOM BARS, THEN DISCONTINUOUS
BOTTOM BARS NEED NOT BE CONTINUED AT BOTTOM OF DEEPER
PORTION OF BEAM (D_1)

NOTE (B) :
IF DROP OCCURS WITHIN TYPICAL CUTOFF OF
DISCONTINUOUS BOTTOM BARS, THEN DISCONTINUOUS
BOTTOM BARS NEED NOT BE CONTINUED IN SHALLOWER
PORTION OF BEAM (D_3)



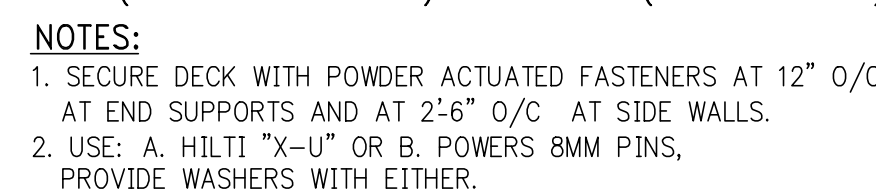
RE-ENTRANT CORNERS

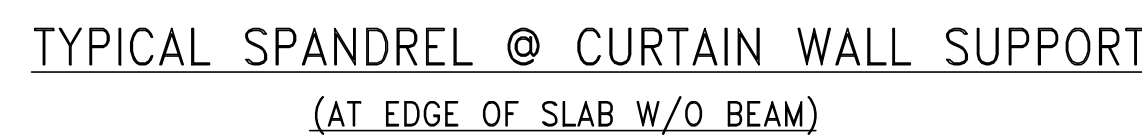


TYPICAL EXTERIOR SLAB EDGE REINF. AT CORNERS



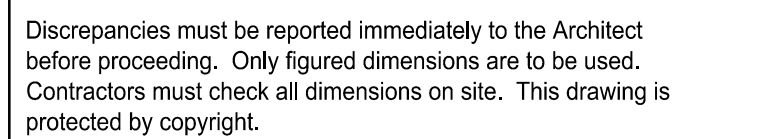
RAMP ON CONCRETE SLAB





NOTE:

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



ALL DIMENSIONS ARE SHOWN IN IMPERIAL

CONSULTANT



PROJECT

217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE

TYPICAL
CONCRETE DETAILS 4

SEAL & SIGNATURE:

DATE:	10/15/2014
-------	------------

PROJECT No:

DRAWING CARD

CHK: Y F

SCALE: AS INDICATED

DWG No:
FO-623.00

DOB PAGE No.

Local & State

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.

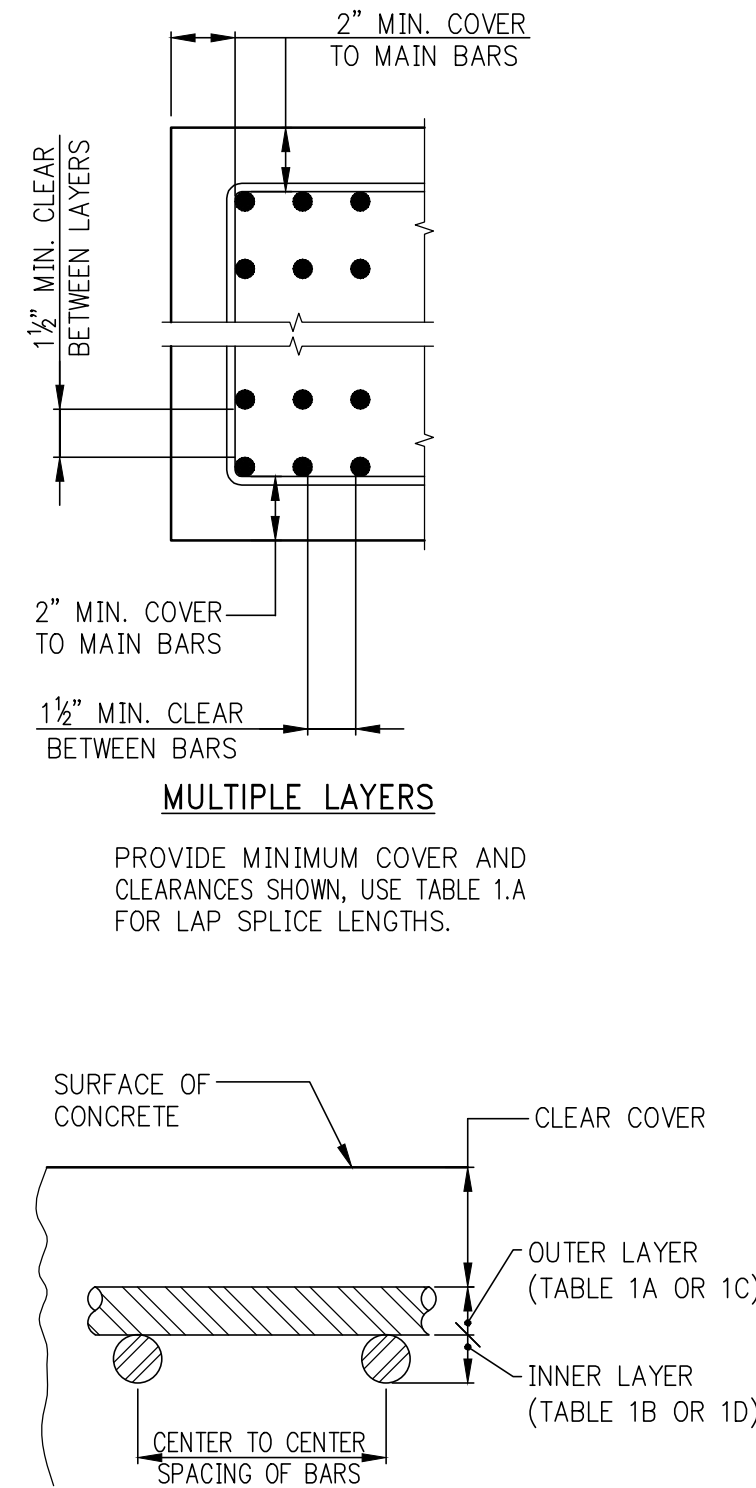


TABLE #2: TENSION DEVELOPMENT LENGTHS (L_d) (IN INCHES)												
TABLE 2.A: 3/4" COVER TO OUTER LAYER BARS OUTER LAYER DEVELOPMENT LENGTHS						TABLE 2.C: 1 1/4" COVER TO OUTER LAYER BARS OUTER LAYER DEVELOPMENT LENGTHS						
NOTE: USE TABLE 2.A IF BAR SPACING IS LESS THAN 4" O.C. UP TO #8, 5" O.C. 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	20	17	15	15	15	15	15	15	15	15	15	15
#7	29	25	22	20	19	18	18	18	18	18	18	18
#8	38	33	28	25	23	22	20	20	20	20	20	20
#9	49	41	35	31	29	27	25	23	23	23	23	23
#10	60	50	43	38	35	32	30	28	27	25	23	22
#11	71	58	50	45	41	38	35	33	32	30	28	27

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	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 7 INCHES, A MODIFICATION FACTOR OF 0.7 MAY BE APPLIED. MINIMUM l_{dh} SHALL NOT BE LESS THAN $8d_b$ NOR 6 INCHES.

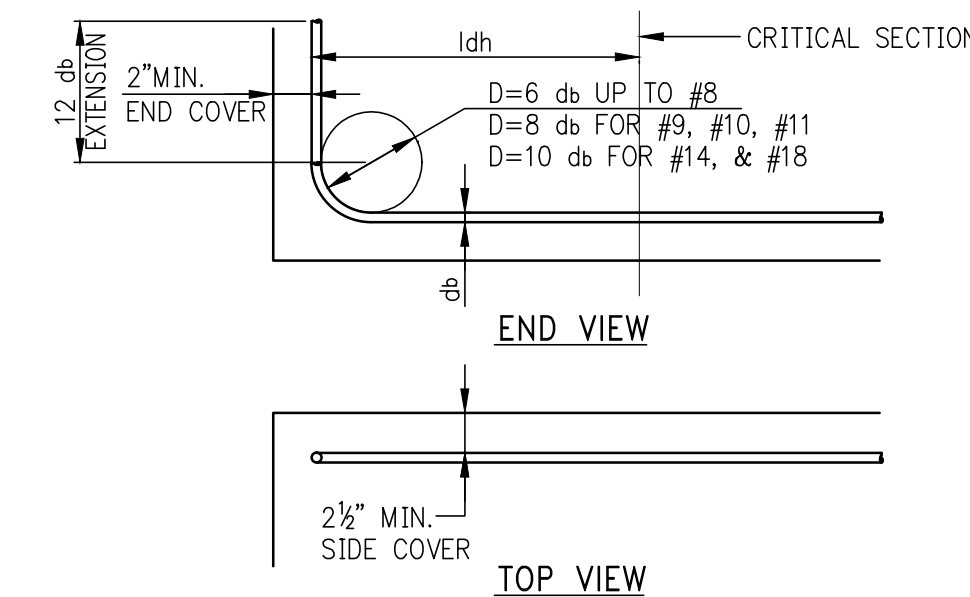
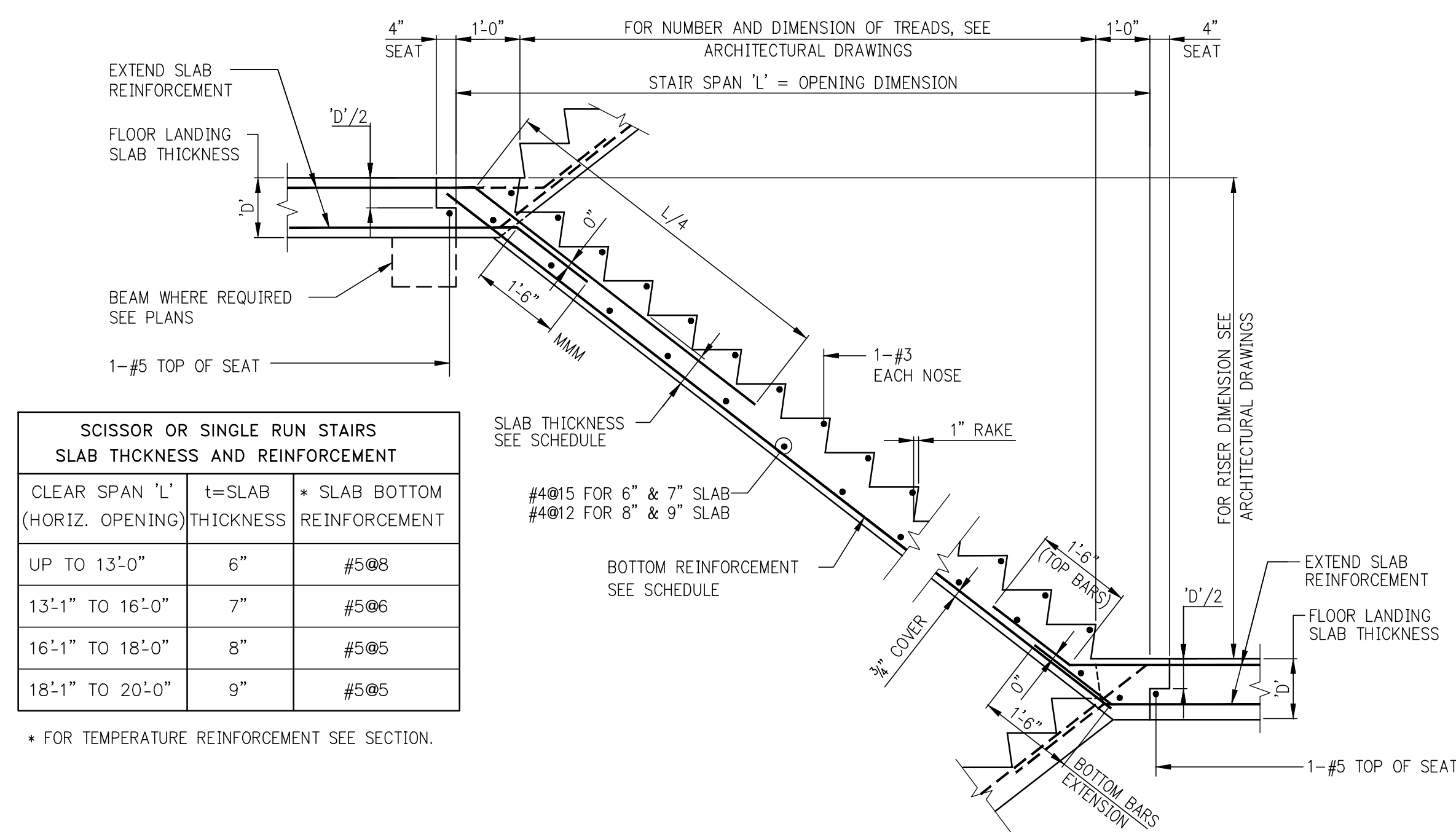


TABLE #4 COMPRESSION LAP SPLICES (LENGTHS IN INCHES)				
BAR SIZE	GRADE OF REINFORCEMENT	60 KSI (30 DIA.)	75 KSI (44 DIA.)	80 KSI (48 DIA.)
#3	12	17	18	
#4	15	22	24	
#5	19	28	30	
#6	23	33	36	
#7	27	39	42	
#8	30	44	48	
#9	34	50	54	
#10	38	56	61	
#11	43	62	68	
#14 AND #18	1. LAP SPLICES ARE NOT PERMITTED 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).			

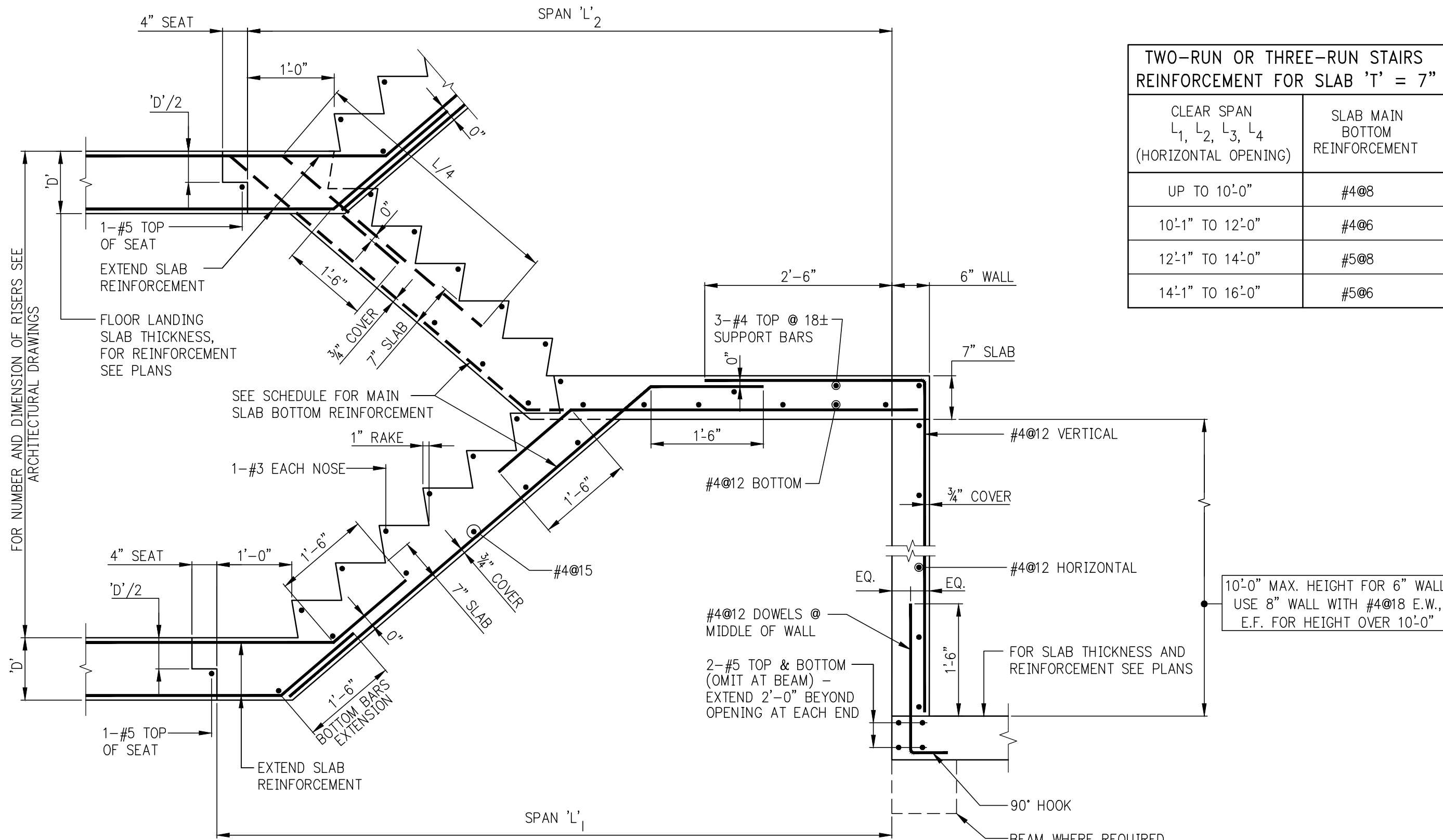
NOTE:

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

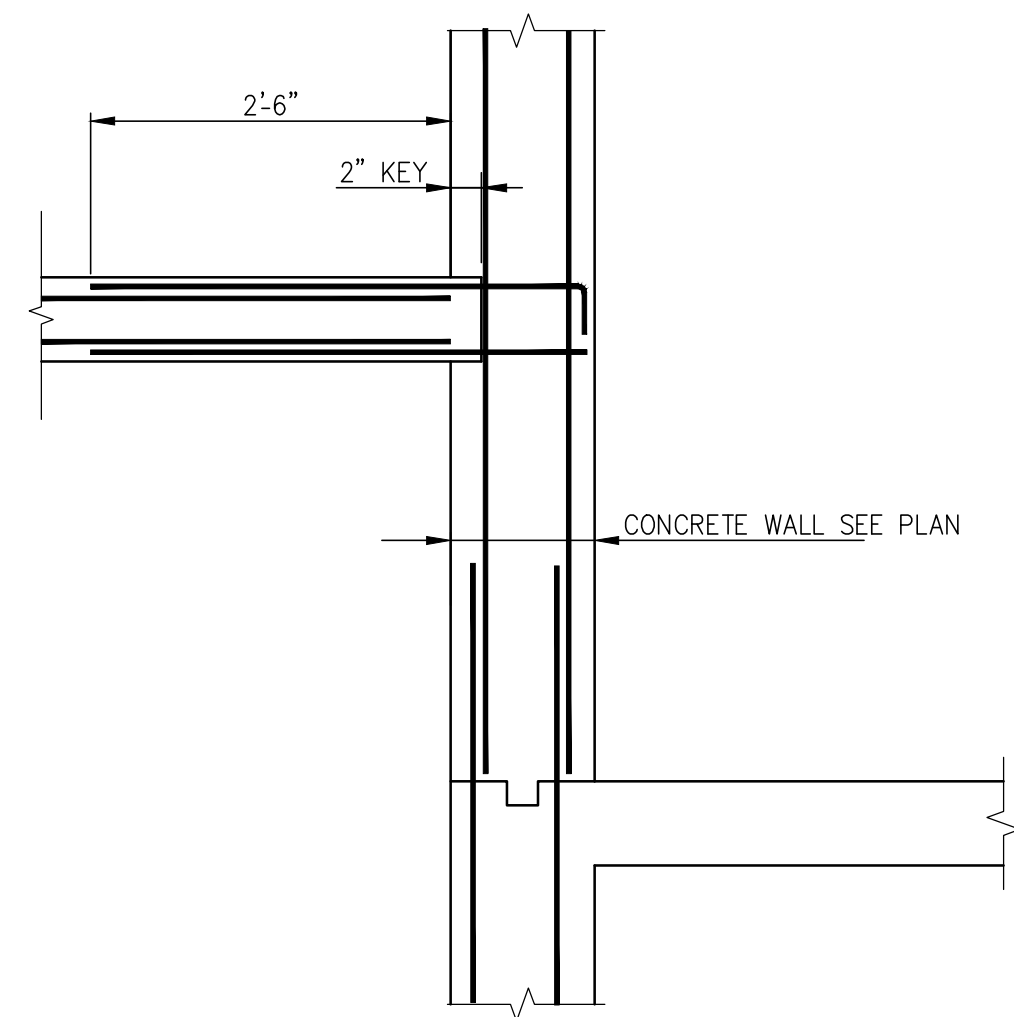
TABLE #5 DEVELOPMENT LENGTHS FOR BARS IN COMPRESSION (LENGTHS IN INCHES)												
BAR SIZE	f _y = 60,000 PSI				f _y = 75,000 PSI				f _y = 80,000 PSI			
	CONC. f _c (IN PSI)				CONC. f _c (IN PSI)				CONC. f _c (IN PSI)			
	3,000	4,000	5,000 OR MORE		3,000	4,000	5,000 OR MORE		3,000	4,000	5,000 OR MORE	
#3	12	12	12		12	12	12		12	12	12	
#4	12	12	12		12	12	12		12	15	13	
#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	



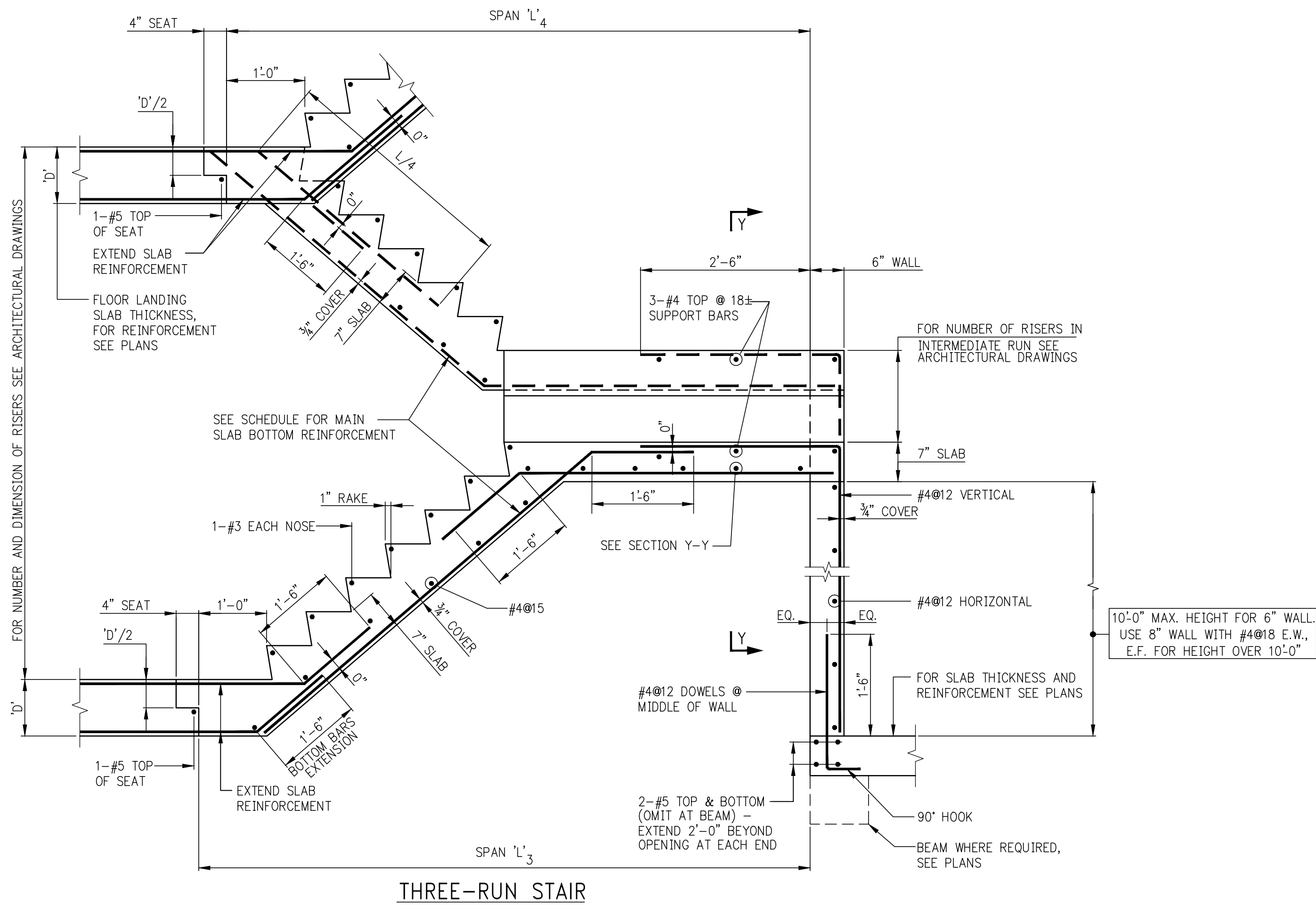
SCISSOR OR SINGLE RUN STAIR
FOR FLOOR REINFORCEMENT EXTENDED INTO STAIR SLAB, SEE FRAMING PLANS.



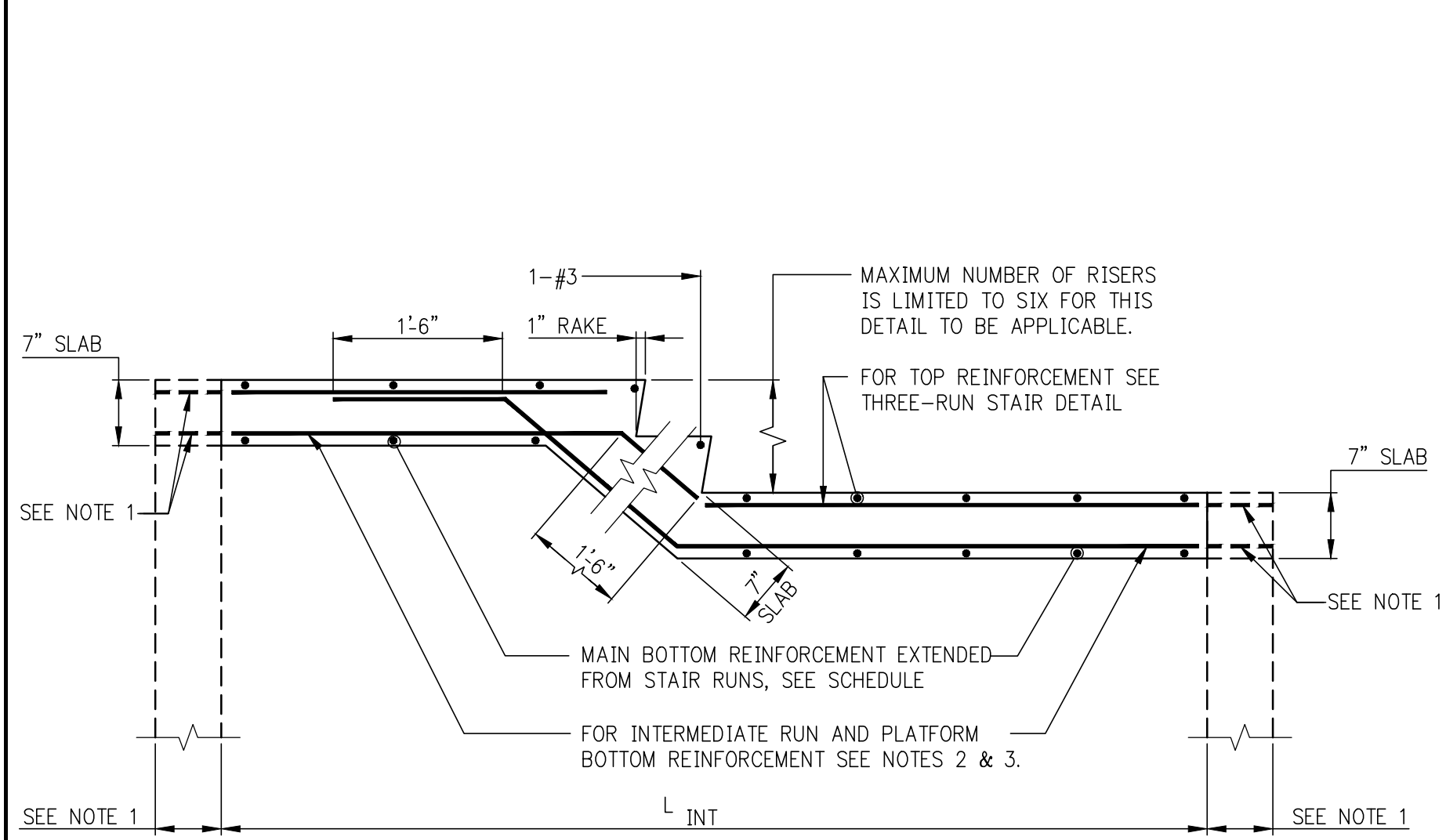
TWO-RUN STAIR



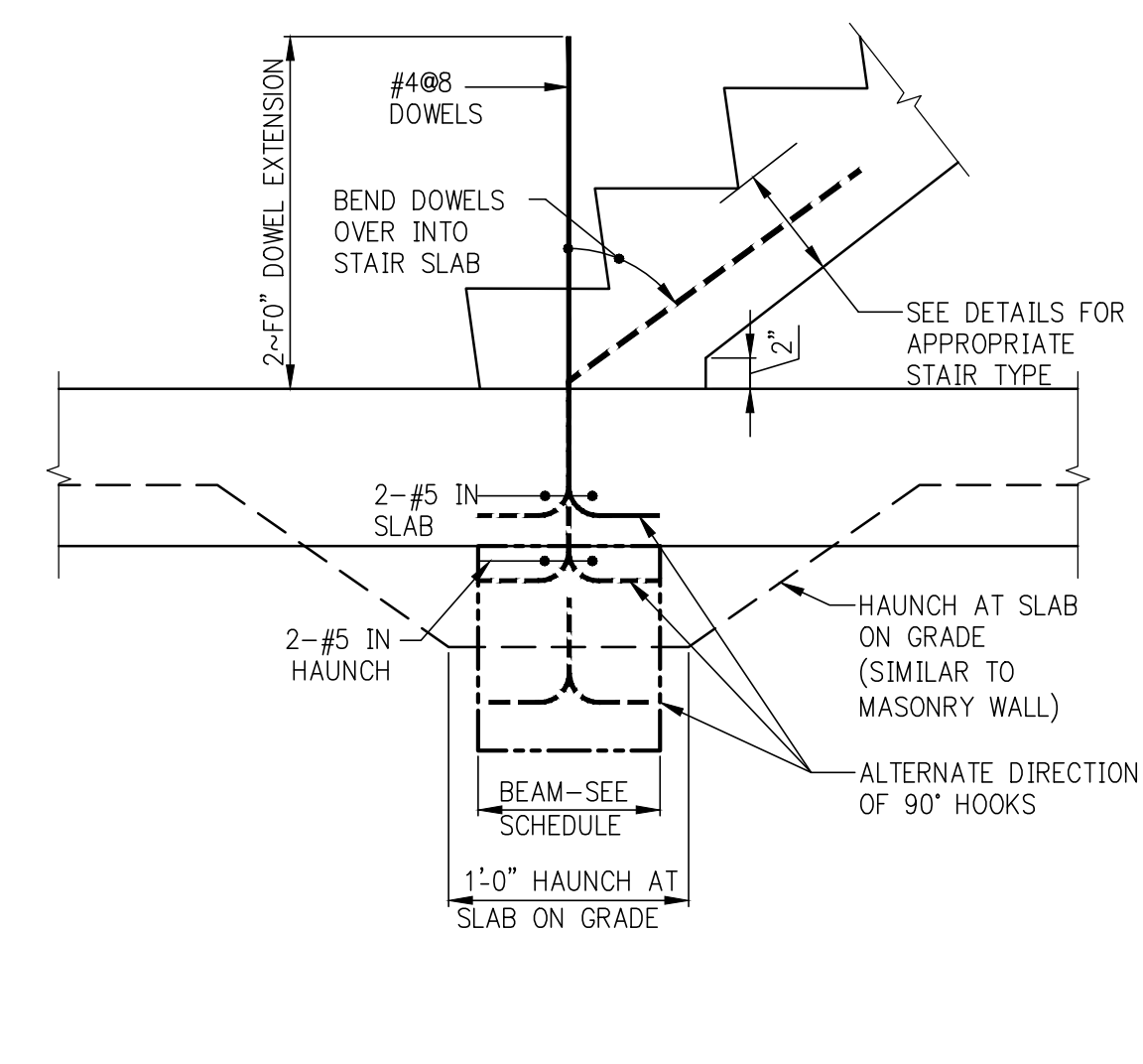
STAIR LANDING @ WALL



THREE-RUN STAIR

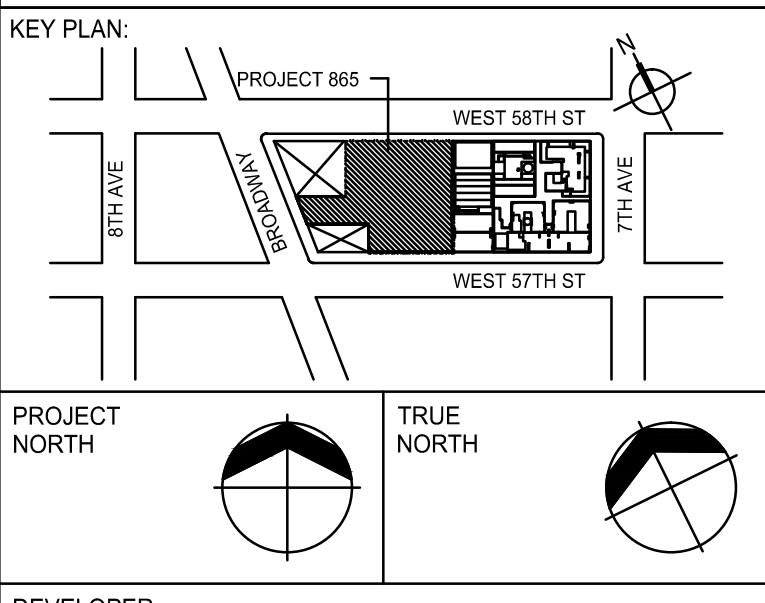


SECTION Y-Y
(AT THREE-RUN STAIR)



BOTTOM OF STAIR-NO SLAB OPENING

- 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.



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:

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

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 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
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


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) 687-8888
www.wspgroup.com/usa

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

DRAWING TITLE: **TYPICAL STAIR DETAILS**

SEAL & SIGNATURE:	DATE: 03/31/14	
 <p>STATE OF NEW YORK ARAB RAMHAWY No. 06957 PROFESSIONAL ENGINEER</p>	PROJECT No: 2012185	
	DRAWN: CADD	REV:
	CHK: Y.E.	11
	SCALE: AS INDICATED	
	DWG No:	FO-800.00
DOB PAGE No:	of	
DOB EMPLOYEE STAMP:	DOB B-SCAN:	