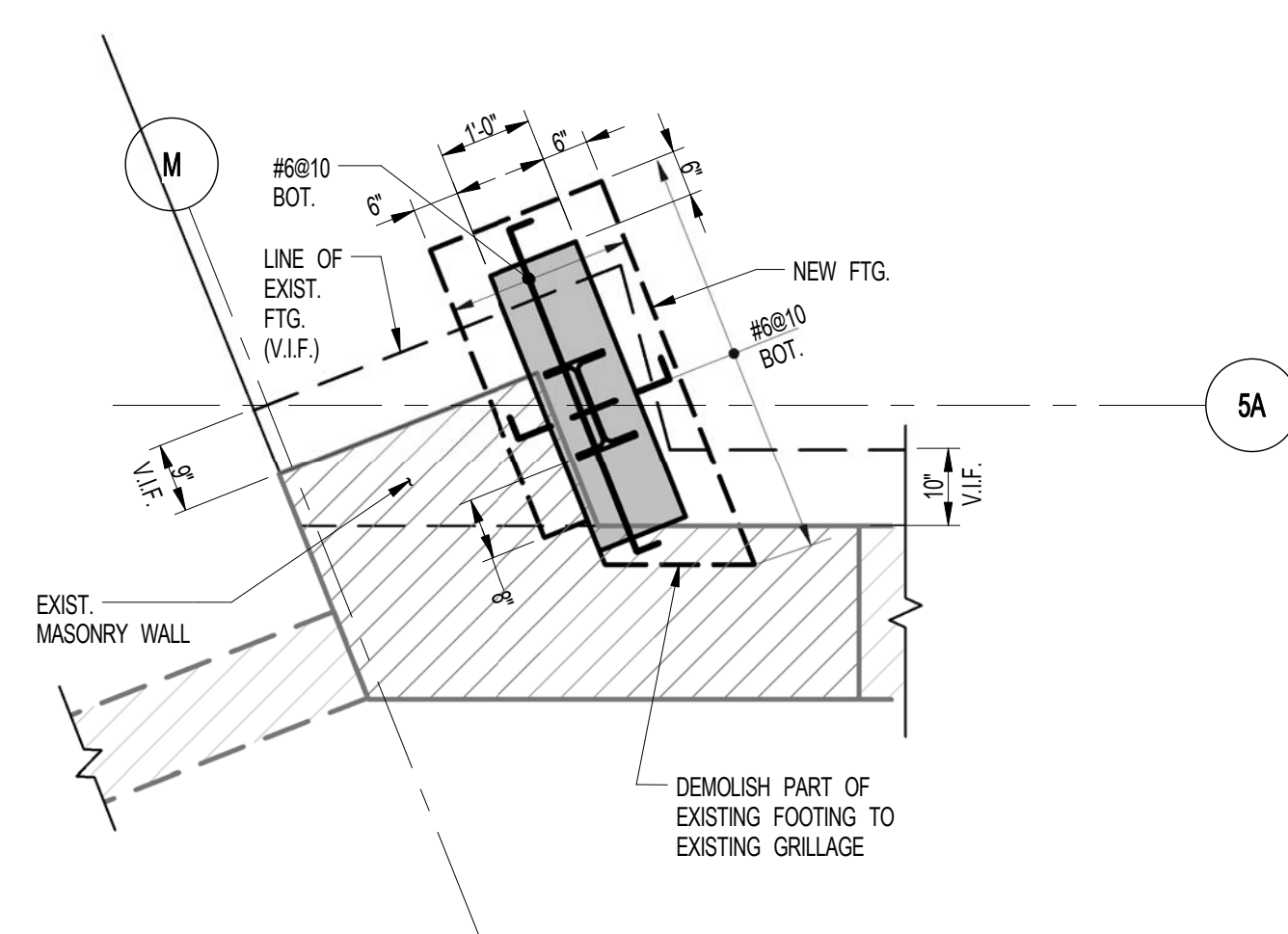
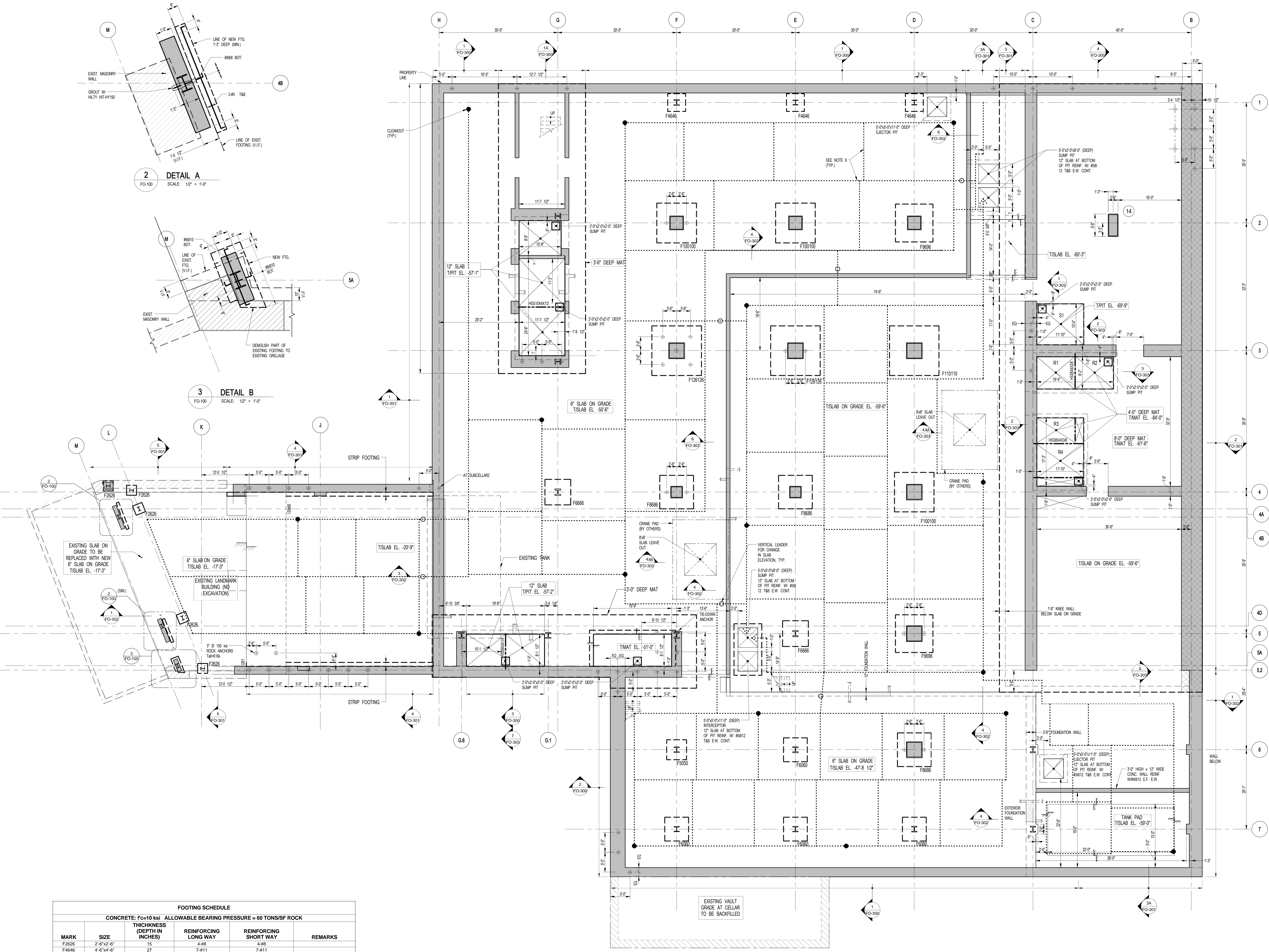


**2 DETAIL A**  
FO-100 SCALE: 1/2" = 1'-0"



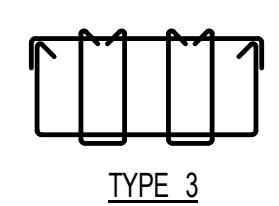
**3 DETAIL B**  
FO-100 SCALE: 1/2" = 1'-0"



FOOTING SCHEDULE					
CONCRETE: F <sub>c</sub> =10 ksi ALLOWABLE BEARING PRESSURE = 60 TONS/SF ROCK					
MARK	SIZE	THICKNESS (DEPTH IN INCHES)	REINFORCING LONG WAY	REINFORCING SHORT WAY	REMARKS
F2826	2'-6"x2'-6"	15	4-#8	4-#8	
F4646	4'-6"x4'-6"	27	7-#11	7-#11	
F5050	5'-0"x5'-0"	34	9-#11	9-#11	
F6060	6'-0"x6'-0"	48	11-#11	11-#11	
F6666	6'-6"x6'-6"	48	14-#11	14-#11	
F6866	6'-6"x6'-6"	68	19-#11	19-#11	2 LAYERS
F9066	9'-6"x9'-6"	98	13-#11	13-#11	2 LAYERS
F100100	10'-0"x10'-0"	68	15-#11	15-#11	2 LAYERS
F10110	11'-0"x11'-0"	68	18-#11	18-#11	2 LAYERS
F120126	12'-6"x12'-6"	68	21-#11	21-#11	2 LAYERS

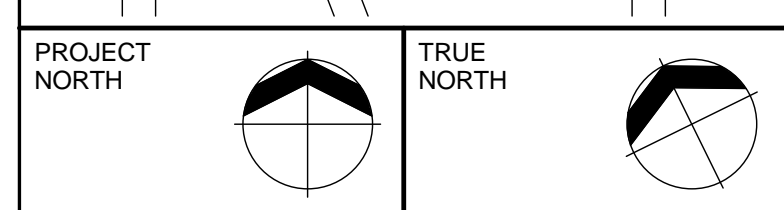
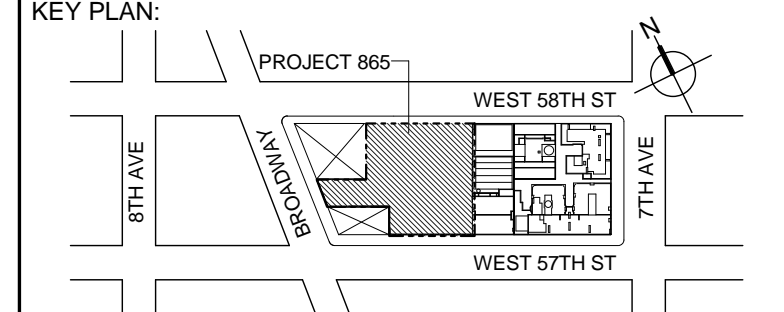
NOTE: FIRST FOOTING DIMENSION IS EAST-WEST DIRECTION.

GRADE BEAM SCHEDULE							
BEAM MARK	WIDTH	DEPTH	REINFORCEMENT BOTTOM CONTINUOUS	REINFORCEMENT TOP CONTINUOUS	TOP ADD'L BARS AT SUPPORT	STIRRUPS TYPE	REMARKS
GB1	120	66	22-#11 (2 LAYERS)	11-#7		3 #4	



**1 FOUNDATION PLAN**  
FO-100 SCALE: 1/8" = 1'-0"

- NOTES:
- FOR TOP OF SLAB ELEVATION SEE PLAN PROJECT 0'-0" = 79.30' ABOVE MANHATTAN DATUM.
  - SLAB ON GRADE TO BE 6" THICK REINF. WITH #3012 E.W. L.O.N. ON PLAN.
  - TOP OF FOOTING TO BE 1'-0" BELOW TOP OF SLAB L.O.N. 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 PER (WHERE SHOWN ON PLAN) REINF. (TYP.).
  - COORDINATE PERFORATED PIPE DRAINAGE AND SUMP PITS W/ ARCH & MECH. DRAWINGS. FOR TYPICAL DRAIN DETAILS SEE FO-200 SERIES DRAWINGS.
  - FOR UNDERGROUND PILING SEE ARCHITECTURAL DRAWINGS.
  - FOR GENERAL NOTES AND LEGEND SEE FO-001.
  - FOR TYPICAL DETAILS SEE FO-200 SERIES DRAWINGS.
  - FOR FOUNDATION SECTIONS SEE FO-300 SERIES DRAWINGS.
  - FOR SHEARWALL DETAILS SEE S-W-000 SERIES DRAWINGS.
  - FOR COLUMN SECTIONS AND DETAILS SEE C-000 SERIES DRAWINGS.
  - FOR STAR LOCATIONS SEE ARCH. DRAWINGS.
  - INDICATES 100 TON BEARING CAPACITY. BEARING CAPACITY IN ALL OTHER LOCATIONS TO BE 01 TON.



**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

**ARCHITECT OF RECORD:** Base Building Shell & Core  
**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 CANTOR SEINUK**  
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: 212-354-6566 FAX: 212-354-6568

**GEOTECHNICAL ENGINEERS:**  
**Langan Engineering & Environmental Services**  
618 River Drive Center 1  
Elmwood Park, NJ 07407  
TEL: 201-794-6900 FAX: 201-794-0366

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

**AVI/SECURITY CONSULTANTS:**  
**The Client Group, LLC**  
630 9th Avenue  
New York, NY 10036  
TEL: 212-686-5940 FAX: 212-686-5180

**INTERIOR DESIGNER:**  
**Rotter Studio Architecture & Design Studio, NY, PLLC**  
298 5th Avenue, 7th Floor  
New York, NY 10001  
TEL: 646-998-7000

**LANDSCAPE ARCHITECT:**  
**HM White**  
107 Grand Street, 6th Floor  
New York, NY 10013  
TEL: 212-868-9411 FAX: 212-941-0422

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

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

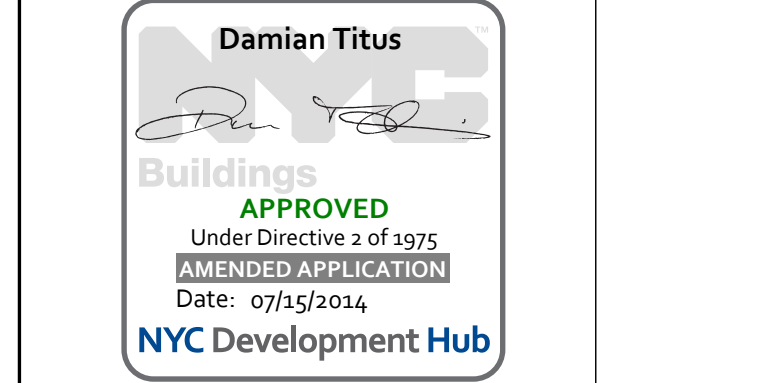
ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

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

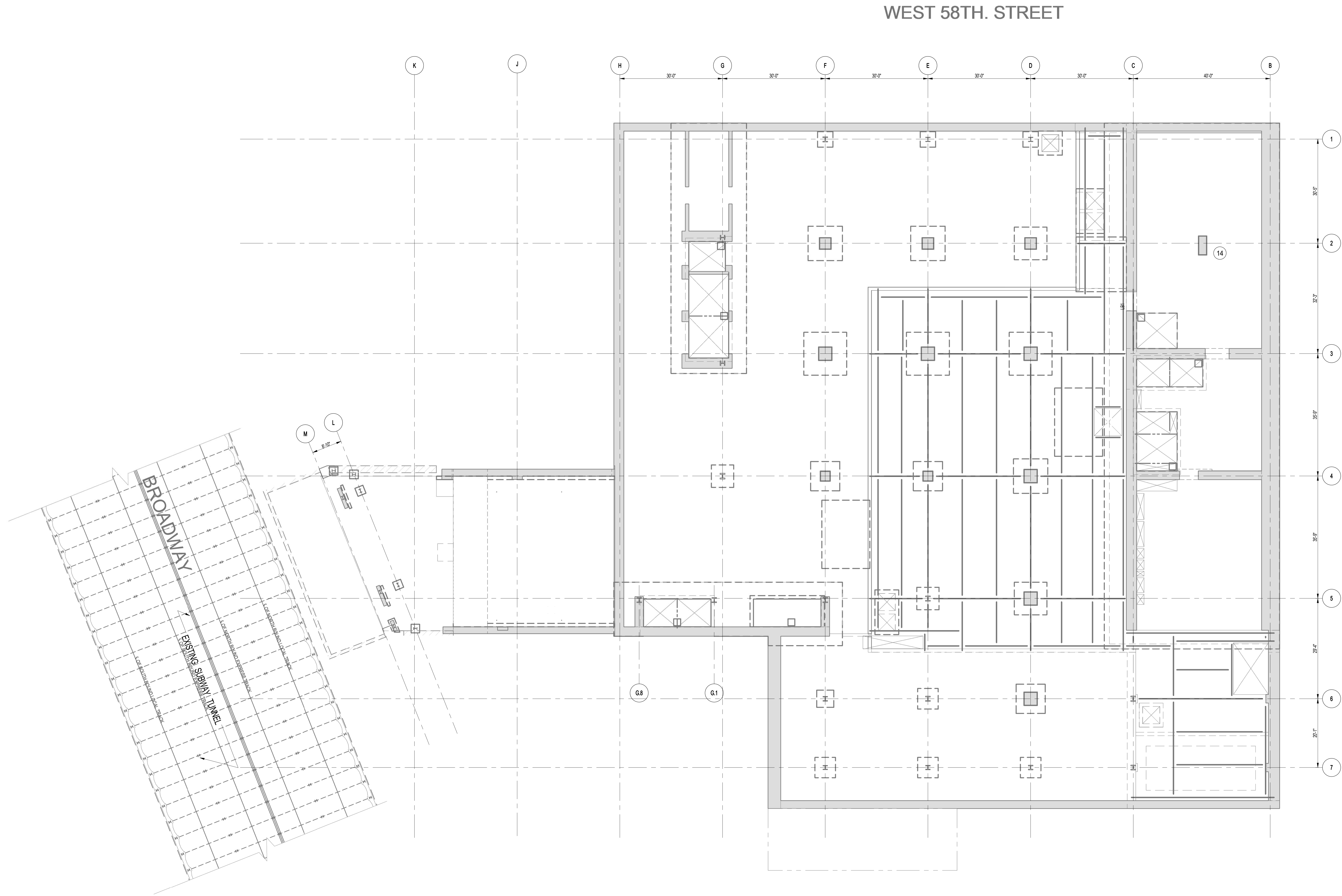
**PROJECT:**  
**217 WEST 57TH STREET**  
NEW YORK, NY

**DRAWING TITLE:**  
**FOUNDATION PLAN**

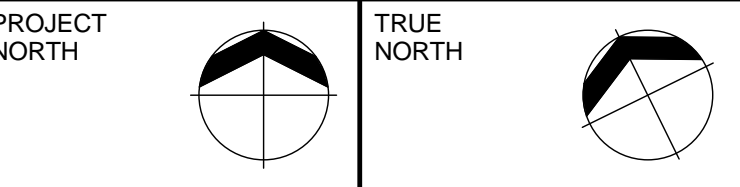
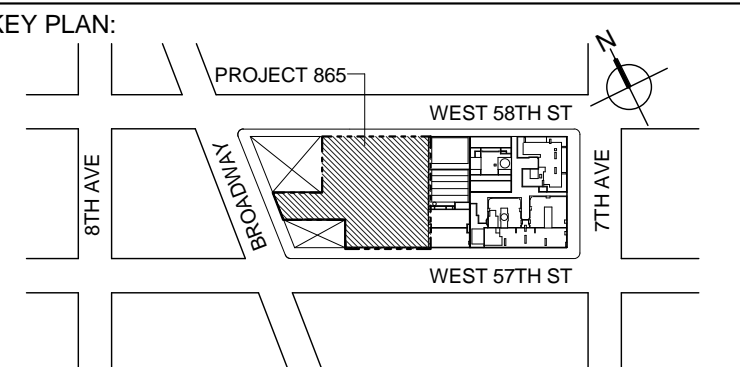
SEAL & SIGNATURE:	DATE:	03-31-2014
PROJECT No:	2012186	
DRAWN: CADD	REV:	
CHK: YE	9	
SCALE: As indicated		
DWG No:		
DOB PAGE No:	3 of 77	
DOB EMPLOYEE NAME:	DOB B-SCAN:	







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



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

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

ARCHITECT OF RECORD: Base Building Shell & Core  
**AAJ 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-CANTOR SENUK**  
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: 212-354-5556 FAX: 212-354-5568

GEOTECHNICAL ENGINEERS:  
**Langan Engineering & Environmental Services**  
619 River Drive Center 1  
Elmwood Park, NJ 07407  
TEL: 201-794-6900 FAX: 201-794-0386

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

AVIT/SECURITY CONSULTANTS:  
**The Clarient Group, LLC**  
630 9th Avenue  
New York, NY 10036  
TEL: 212-586-5940 FAX: 212-586-2180

INTERIOR DESIGNER:  
**Rotter Studio Architecture & Design Studio, NY, PLLC**  
298 5th Avenue, 7th Floor  
New York, NY 10001  
TEL: 646-998-7000

LANDSCAPE ARCHITECT:  
**HM White**  
107 Grand Street, 6th Floor  
New York, NY 10013  
TEL: 212-668-9411 FAX: 212-941-0422

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

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.

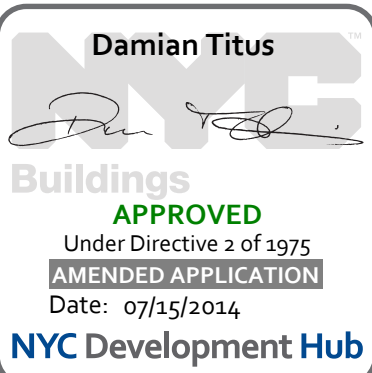
CONSULTANT:  
**WSP**  
228 East 45th Street  
New York, NY 10017  
(212) 687-9888  
www.wspgroup.com/usa

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

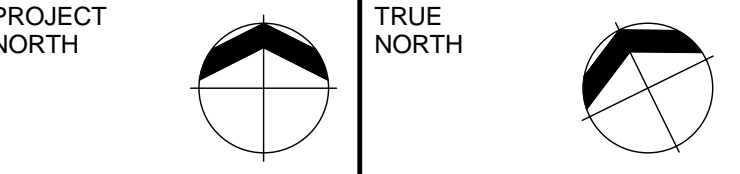
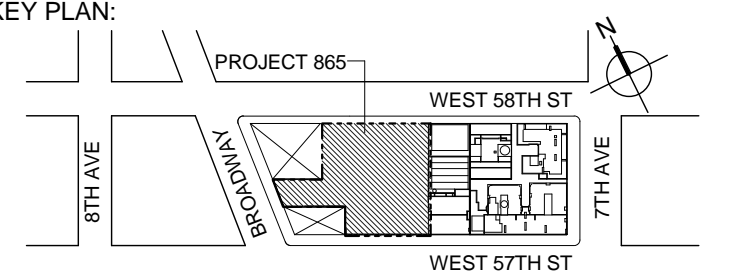
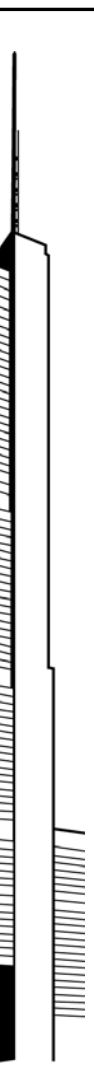
DRAWING TITLE:  
**SITE KEY PLAN**

SEAL & SIGNATURE	DATE: 03-31-2014
	PROJECT No: 2012186
	DRAWN: CADD REV: 8
	CHK: YE
	SCALE: 3/32" = 1'-0"
DWG No:	FO-101.00
DOB PAGE No:	4 of 77

DOB EMPLOYEE STAMP: DOB B-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

ARCHITECT OF RECORD: Base Building Shell & Core  
**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 CANTOR SENUK**  
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: 212-354-6566 FAX: 212-354-6668

GEOTECHNICAL ENGINEERS:  
**Langan Engineering & Environmental Services**  
619 River Drive Center 1  
Elmwood Park, NJ 07407  
TEL: 201-794-6900 FAX: 201-794-0386

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

AVIATION/SECURITY CONSULTANTS:  
**The Clarient Group, LLC**  
630 9th Avenue  
New York, NY 10036  
TEL: 212-686-5940 FAX: 212-686-2180

INTERIOR DESIGNER:  
**Rottet Studio Architecture & Design Studio, NY, PLLC**  
298 5th Avenue, 7th Floor  
New York, NY 10001  
TEL: 646-938-7000

LANDSCAPE ARCHITECT:  
**HM White**  
107 Grand Street, 6th Floor  
New York, NY 10013  
TEL: 212-869-9411 FAX: 212-941-0422

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

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

ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

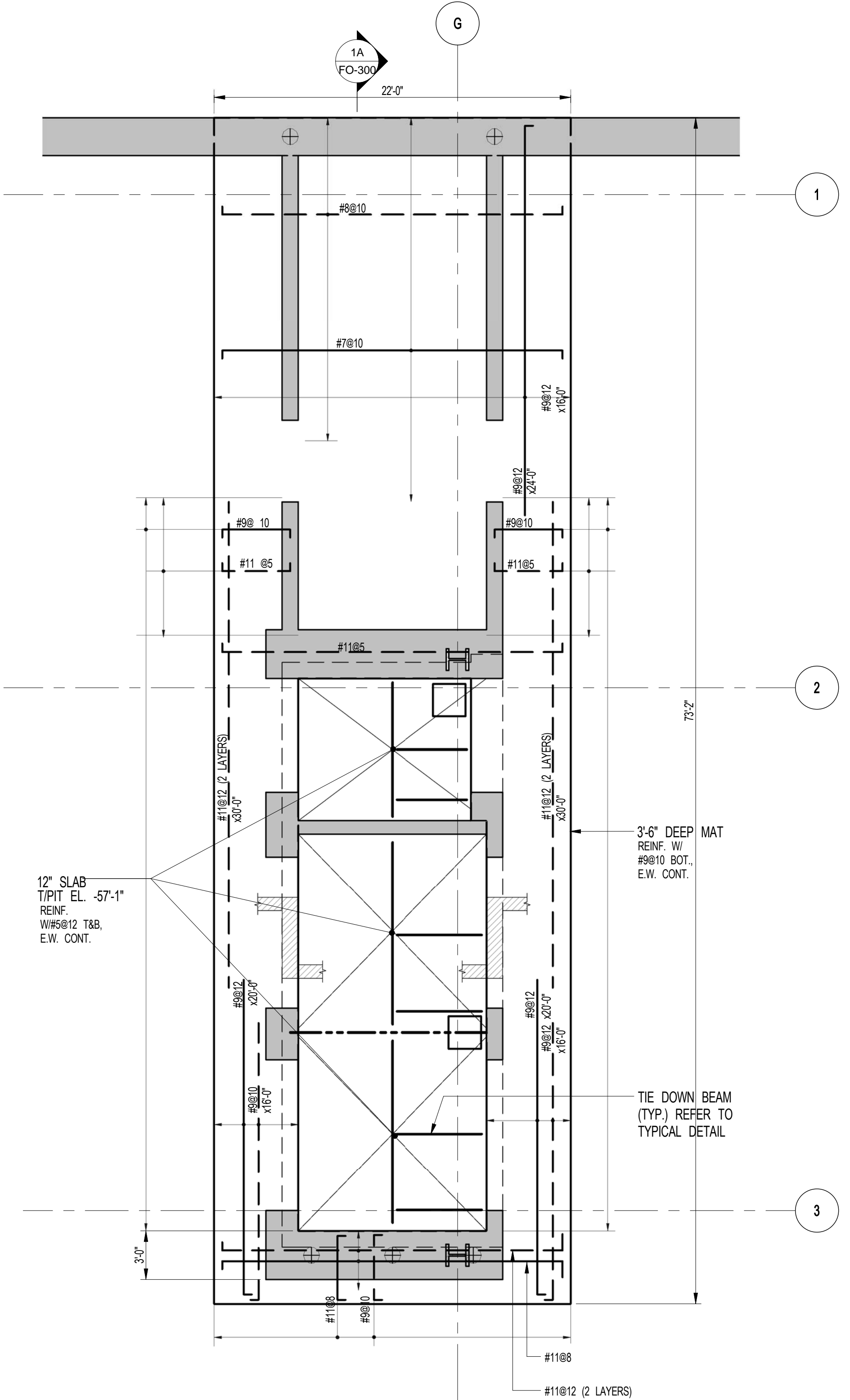
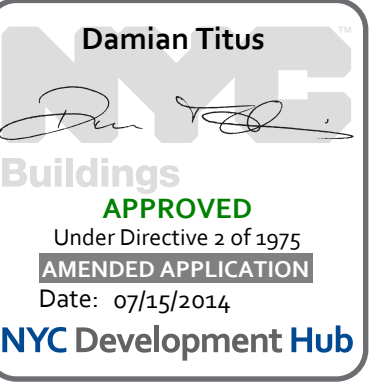
CONSULTANT:  
**WSP**  
228 East 45th Street  
New York, NY 10017  
(212) 687-9888  
www.wspgroup.com/usa

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

DRAWING TITLE:  
**MAT REINFORCEMENT PLAN**

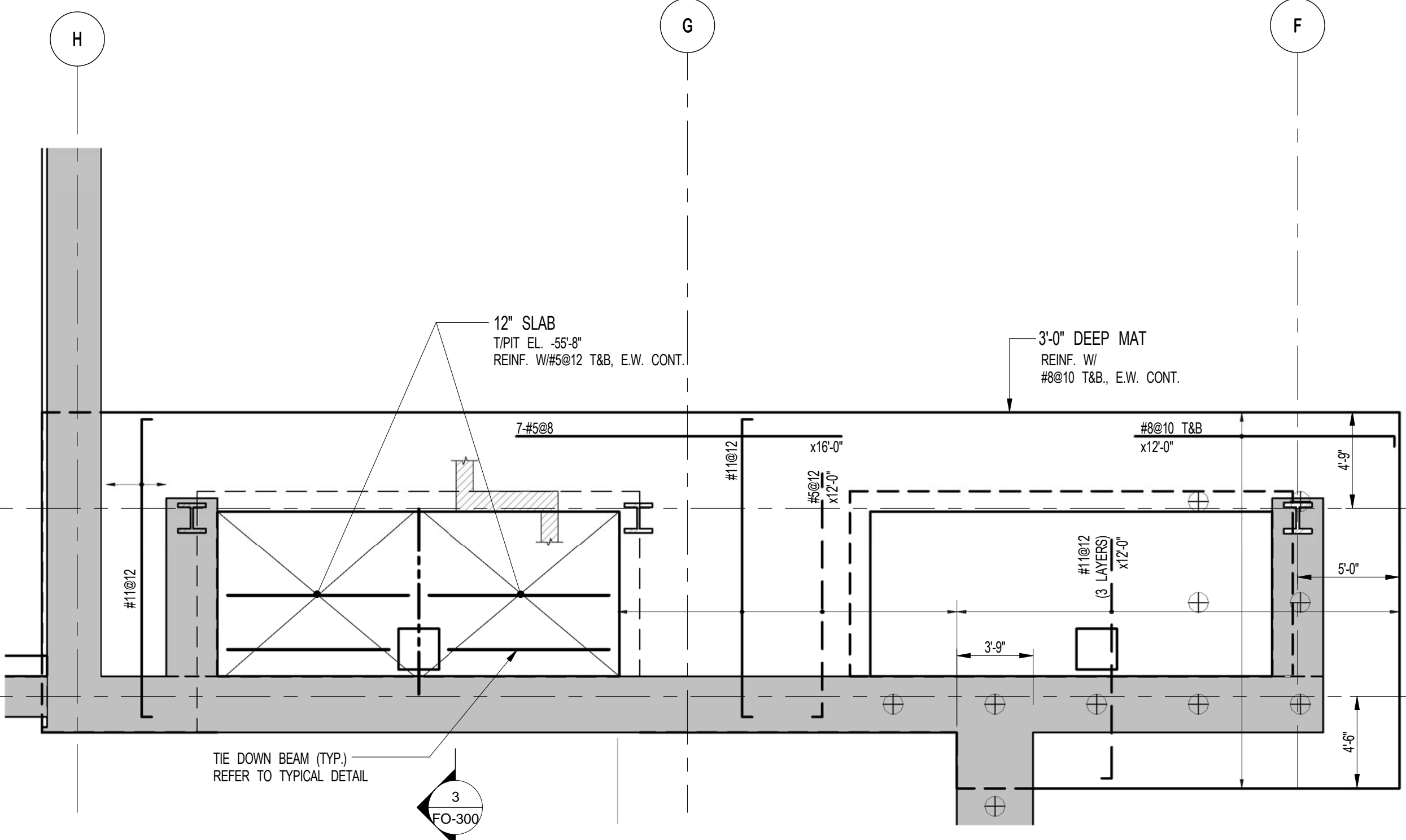
SEAL & SIGNATURE: 	DATE: 03-31-2014 PROJECT No: 2012186 DRAWN: CADD CHK: YE SCALE: As indicated DWG No: <b>FO-102.00</b>
-----------------------	---

DOB EMPLOYEE STAMP: DOB PAGE No: 5 of 77 DOB B-SCAN:



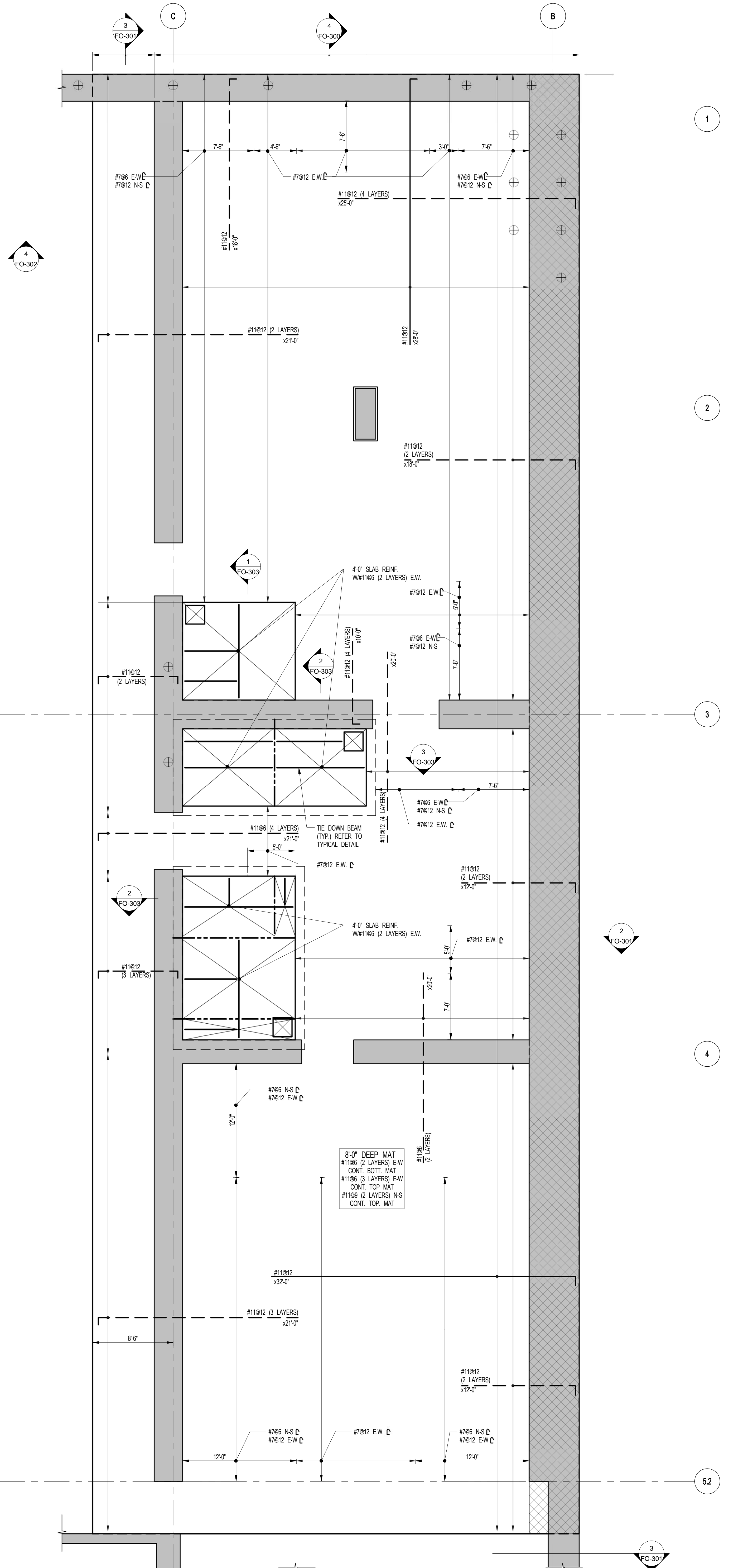
**1 MAT REINFORCEMENT PLAN**  
SCALE: 3/16" = 1'-0"

- NOTES:
1. ALL #11 BARS TO BE ASTM A615 GR5.
  2. ALL PT STEEL TO BE COORDINATED WITH ELEVATOR CONTRACTOR.
  3. BEARING CAPACITY TO BE 60 TSF.



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

- NOTES:
1. ALL #11 BARS TO BE ASTM A615 GR5.
  2. ALL PT STEEL TO BE COORDINATED WITH ELEVATOR CONTRACTOR.
  3. BEARING CAPACITY TO BE 60 TSF.



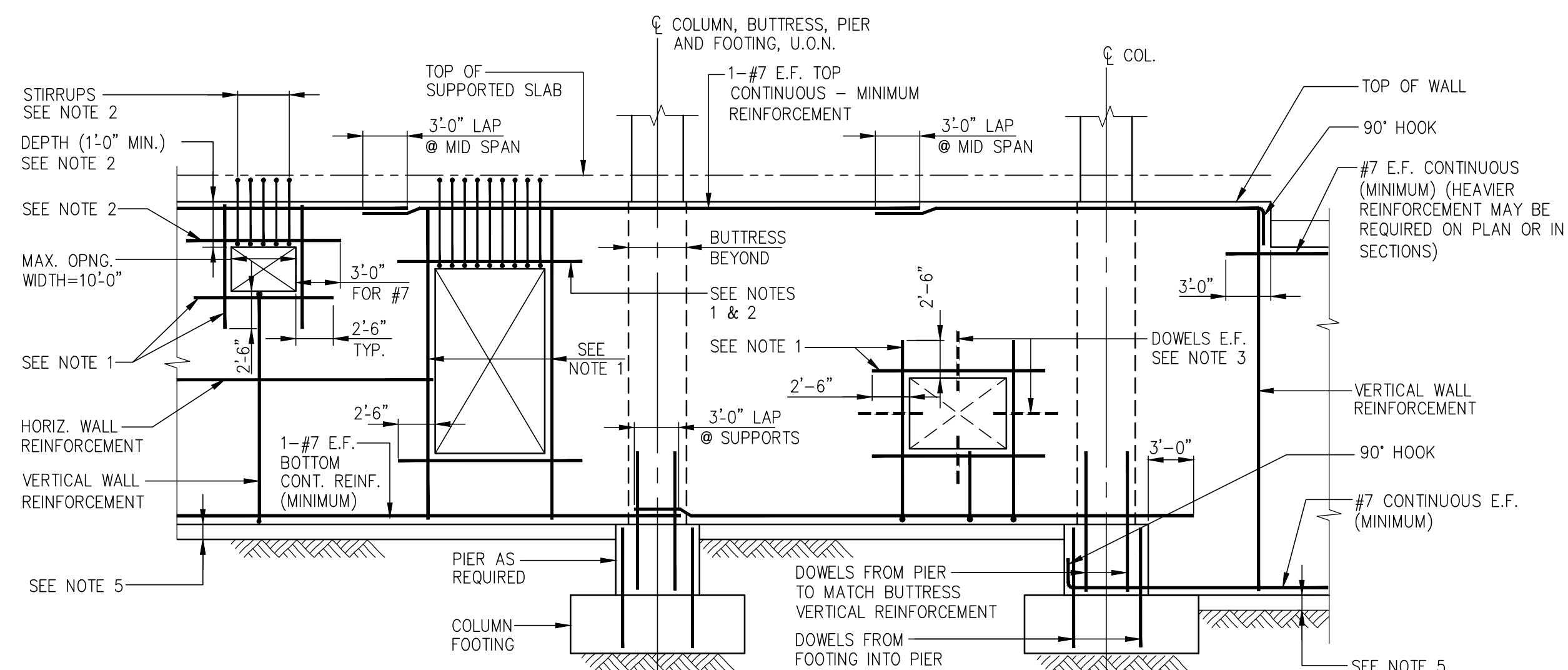
**2 MAT REINFORCEMENT PLAN**  
SCALE: 3/16" = 1'-0"

- NOTES:
1. ALL #11 BARS TO BE ASTM A615 GR5.
  2. ALL PT STEEL TO BE COORDINATED WITH ELEVATOR CONTRACTOR.
  3. [Symbol] INDICATES 100 TON BEARING CAPACITY. BEARING CAPACITY AT ALL OTHER LOCATIONS TO BE 60 TSF.





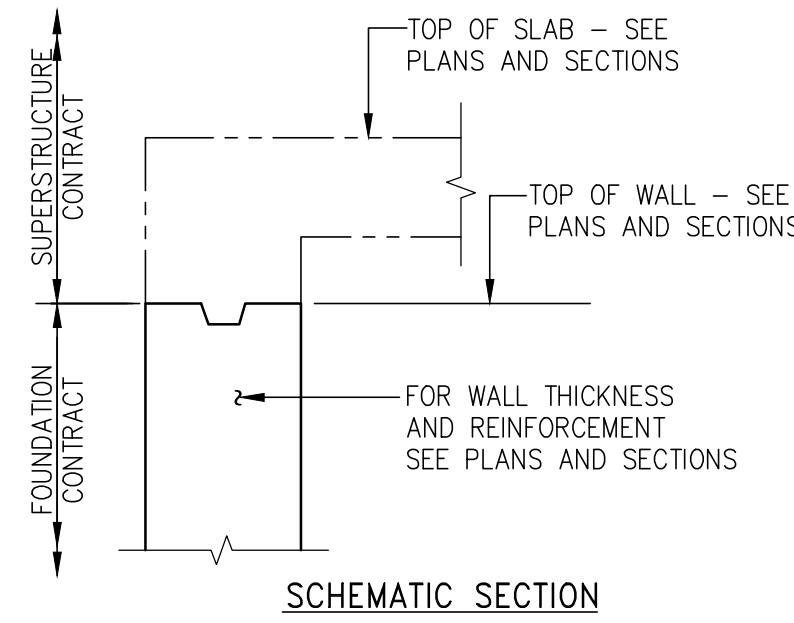




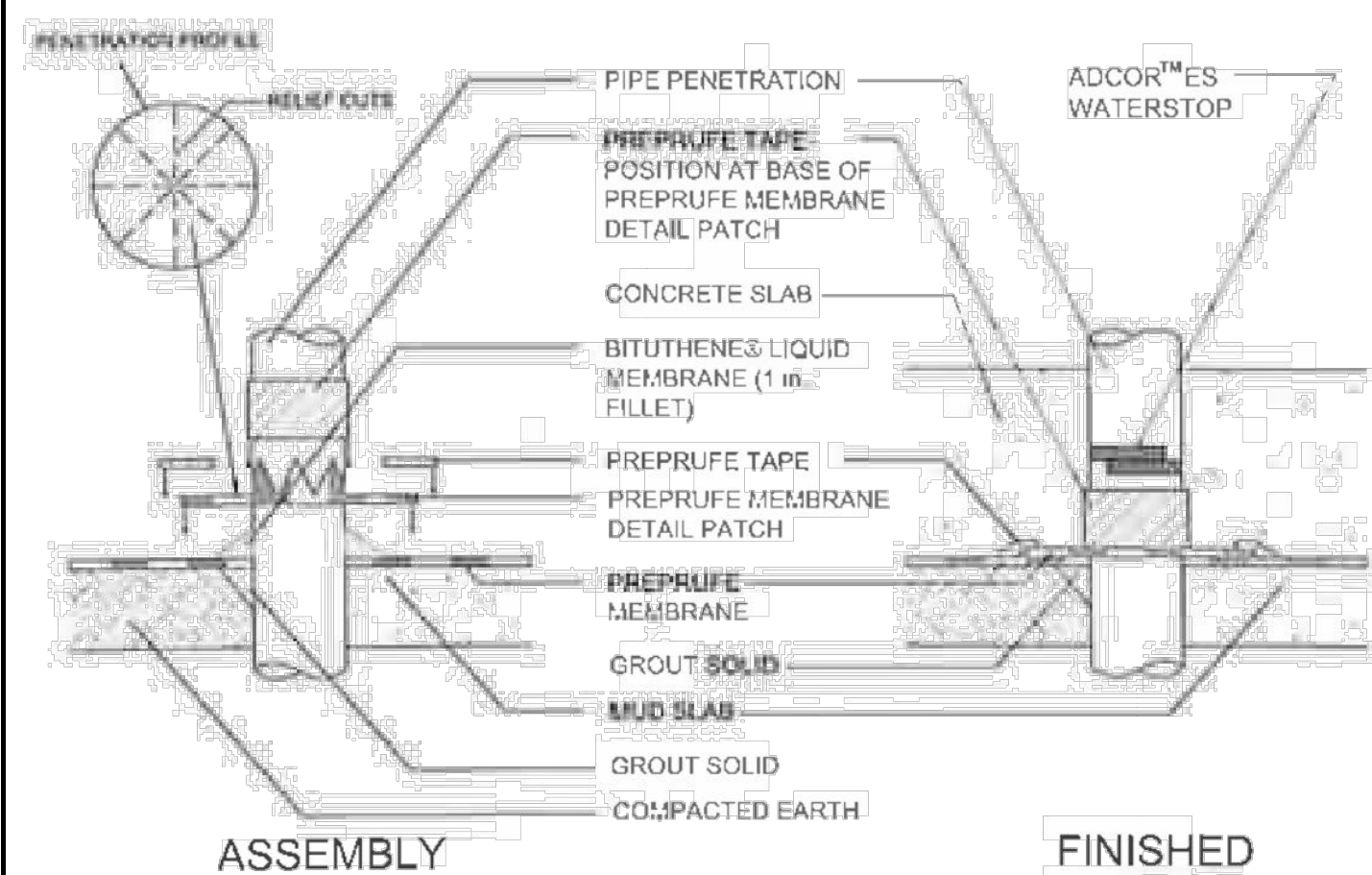
FOUNDATION WALL ELEVATION SHOWING REINFORCEMENT  
AT OPENINGS AND MISCELLANEOUS DETAILS

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 @ 8" - 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 DWGS., 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 PS-300 SERIES DRAWINGS FOR ADDITIONAL DETAILS.

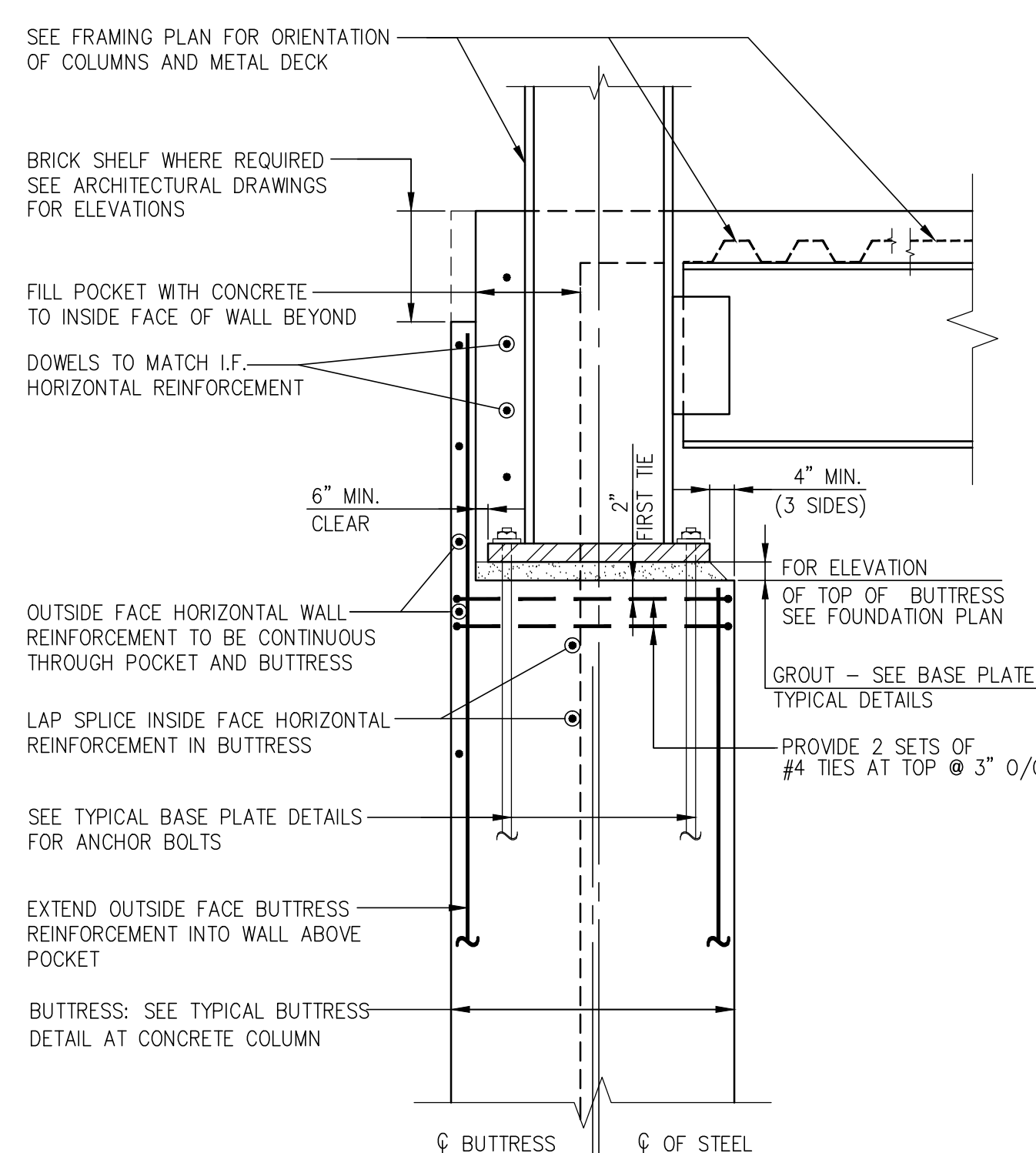


SCHEMATIC SECTION  
AT TOP OF WALL

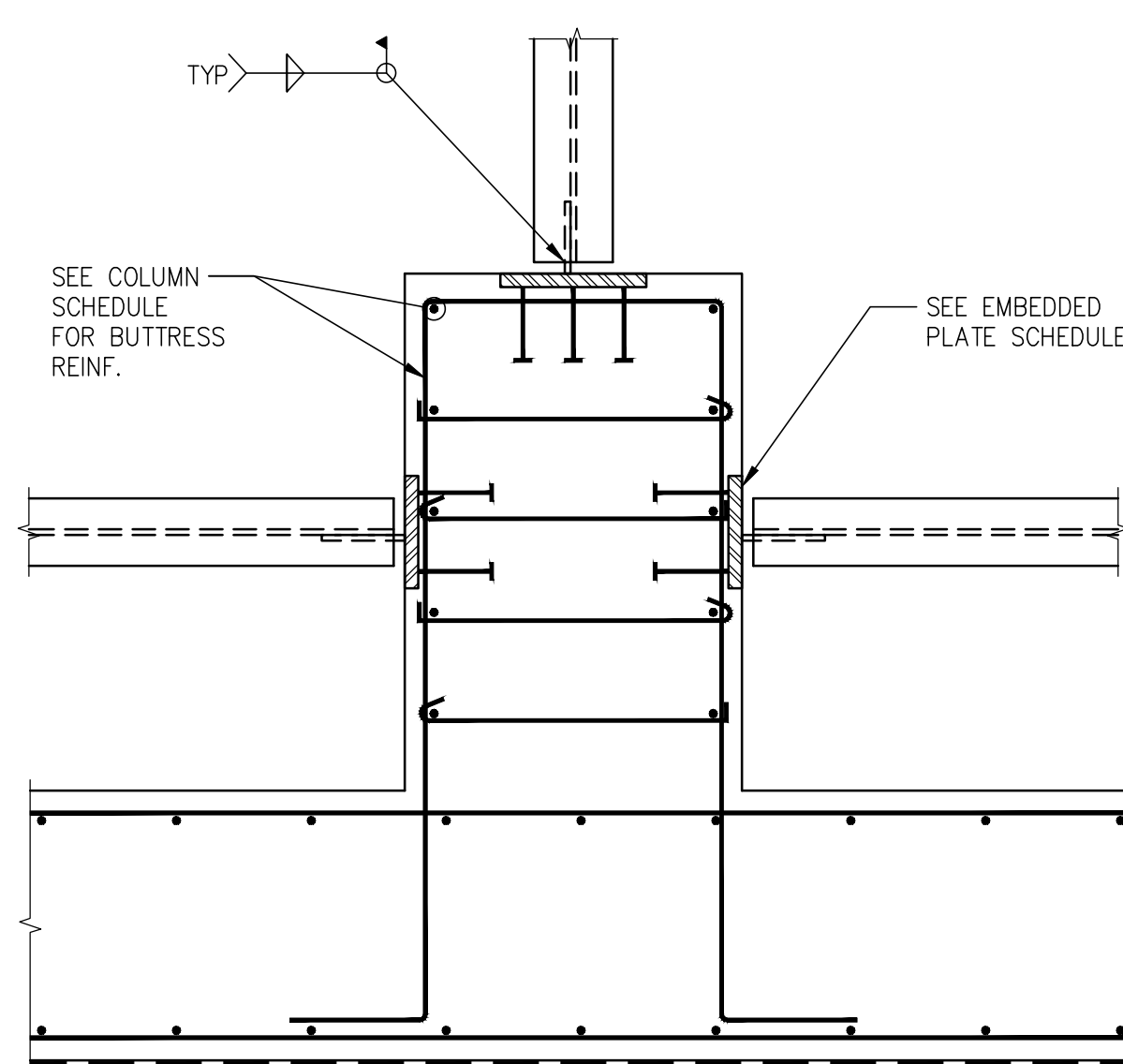


- FOOTNOTES:**
- ALL PENETRATIONS TO BE GROUTED.
  - A MINIMUM OF 6 IN. (150 MM) IS REQUIRED BETWEEN PENETRATIONS TO ENSURE PROPER DETAILING.
  - AVOID PLACEMENT OF MULTIPLE PENETRATIONS.
  - A MINIMUM OF 6 IN. (150 MM) OF PIPE NEEDS TO BE EXPOSED AND FREE OF CONNECTIONS, OBSTRUCTIONS, HANGERS, ETC., TO ENSURE PROPER EXECUTION OF THE DETAIL.

WATERPROOFED SLEEVE THROUGH WALL  
WITH WATERPROOFING

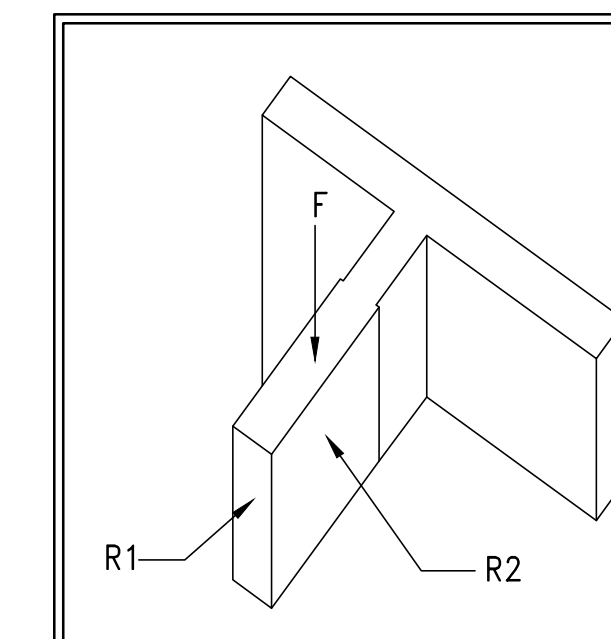


BUTTRESS AT STEEL COLUMN



TYPICAL DETAIL OF EMBEDDED PLATE IN BUTTRESS  
(PLAN VIEW)

EMBEDDED PLATE SCHEDULE			
BEAM	PLATE DIMENSIONS B(n) x H (n)	STUD PATTERN VERT. x HORIZ.	STUD SPACING VERT. x HORIZ.
W12	10 x 15	3 x 2	6 x 7
W14	10 x 21	4 x 2	6 x 7
W16	13 x 18	3 x 3	6 x 5
W18	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



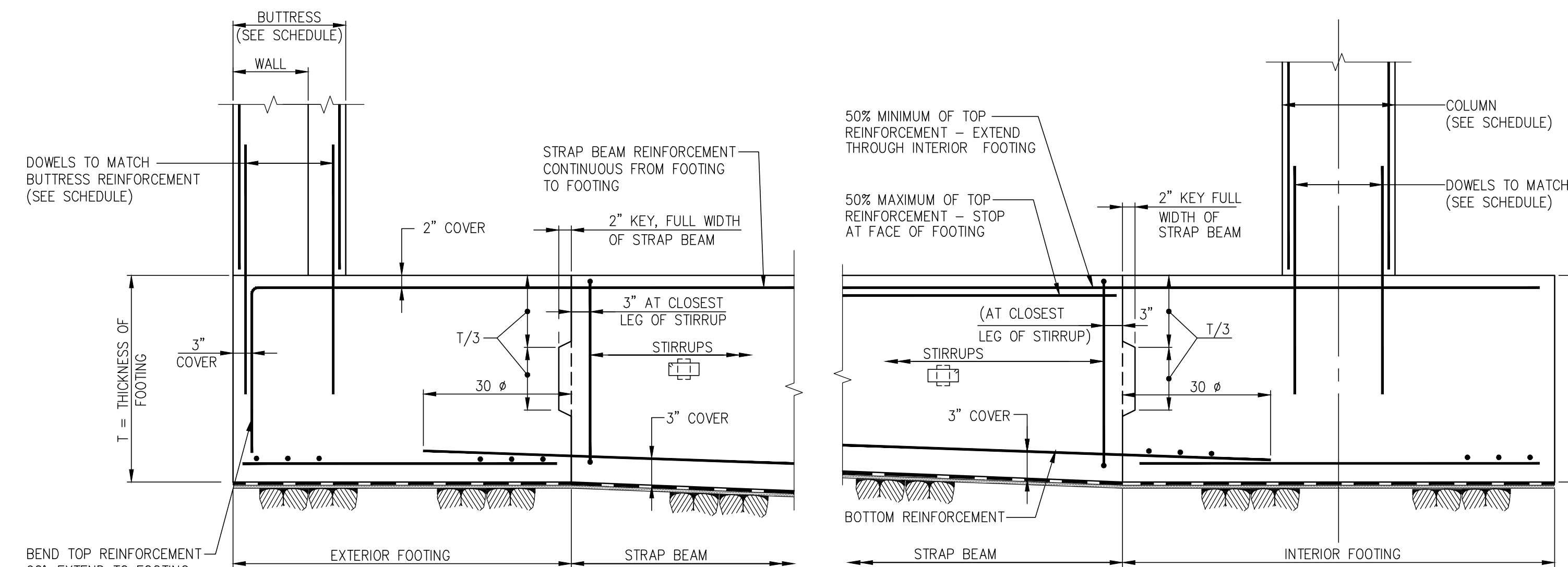
- \* LOADS SHOWN DO NOT ACT SIMULTANEOUSLY
- \*\* CAR AND CWT RAILS

PIT AND RAIL LOADS		R 1-3		R 4	S 1
SEISMIC		S2	S2	S2	S2
CLASS LOAD RATING		A	A	A	A
RAIL WEIGHT/SIZE		15	18.5	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		25800#	32200#	4500#	
WEIGHT ONE STACK CWT RAIL		20800#	32200#	3000#	
LIP PULL ON COMPENSATOR	C	56.0K	75.5K		
	Fcar	* 29.0K	* 43.5K	* 35.0K	
	Fcwt	* ---	* ---	* ---	
RAIL LOADS PER RAIL	NORMAL FORCES	R1	800#	800#	800#
		R2	200#	500#	500#
	SEISMIC FORCES	R1	2100#	2800#	2200#
		R2	** 1100#	** 1500#	** 1200#
			14'	14'	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  
1/4" WHEN ACTED UPON BY SEISMIC FORCES R1 AND R2

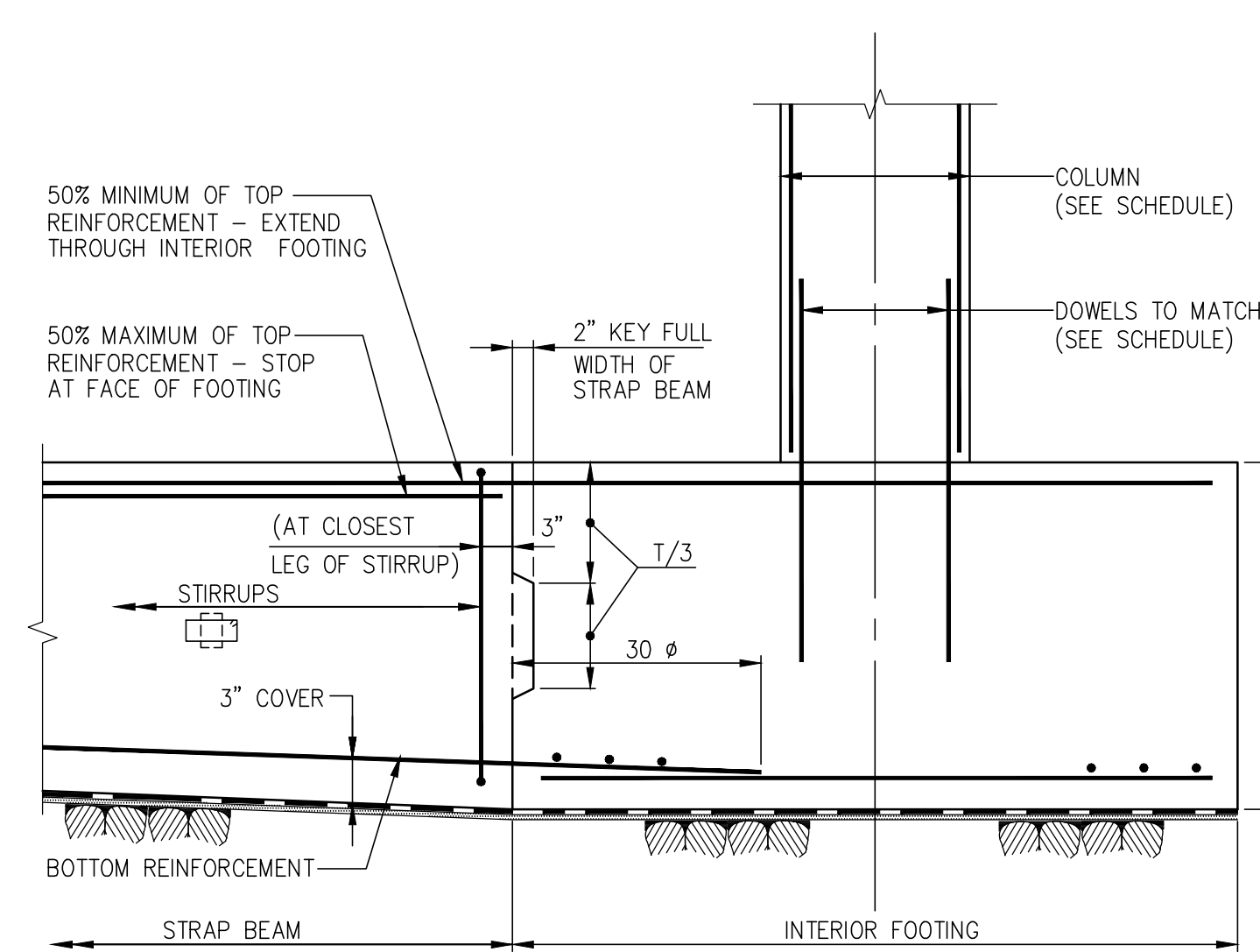
ELEVATOR PIT AND RAIL LOADS

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

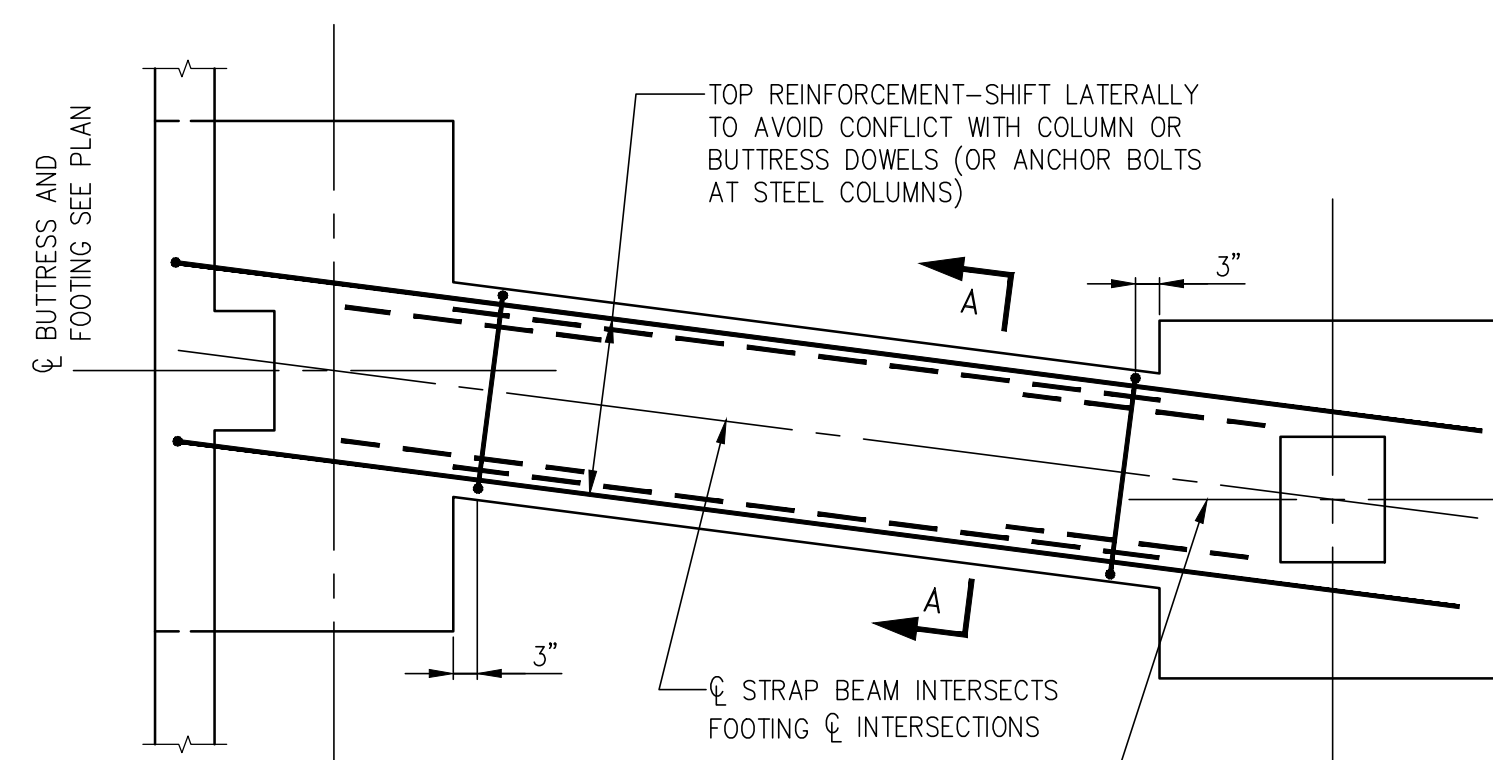


ELEVATION - EXTERIOR FOOTING

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



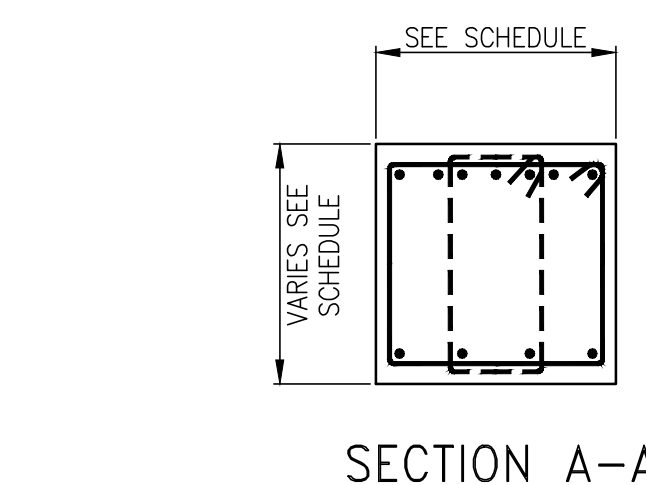
ELEVATION - INTERIOR FOOTING



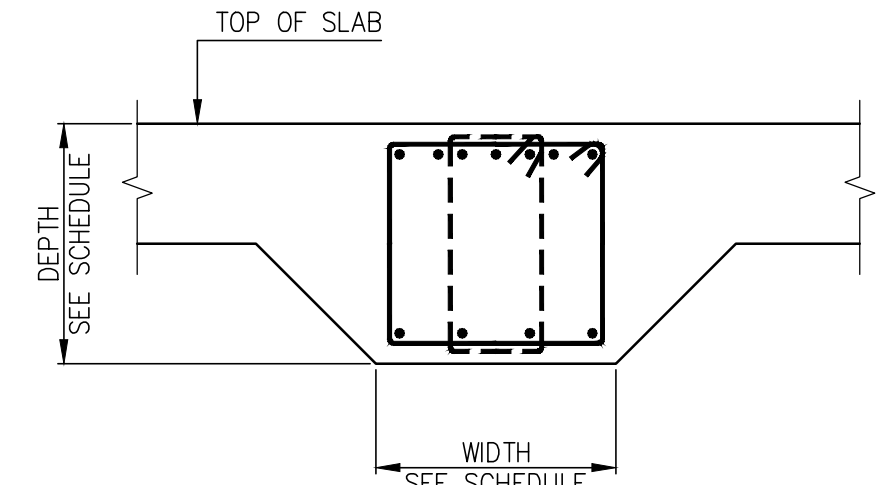
PLAN

STRAP BEAM FOR FOOTINGS ON SOIL OR ROCK

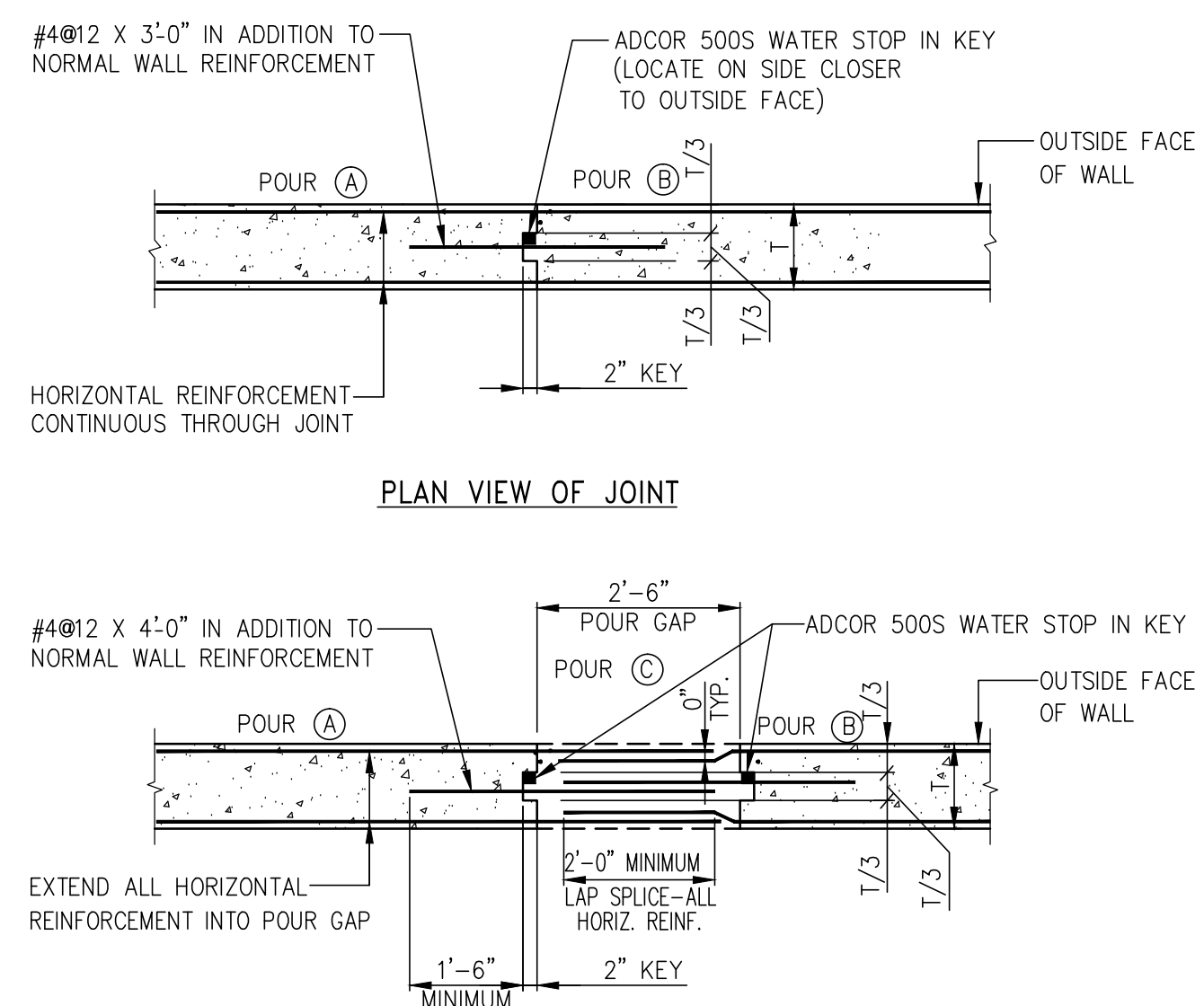
NOTE:  
STRAP BEAM MUST FRAME DIRECTLY TO FOOTINGS.  
STRAP BEAMS MAY NOT FRAME TO PIERS OR BUTTRESSES.



SECTION A-A



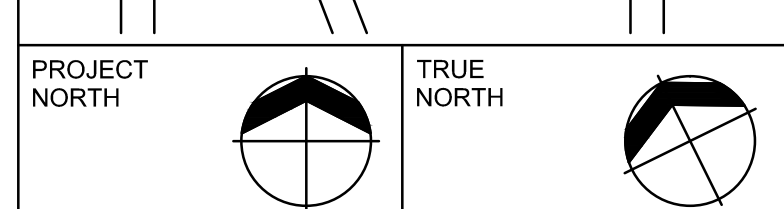
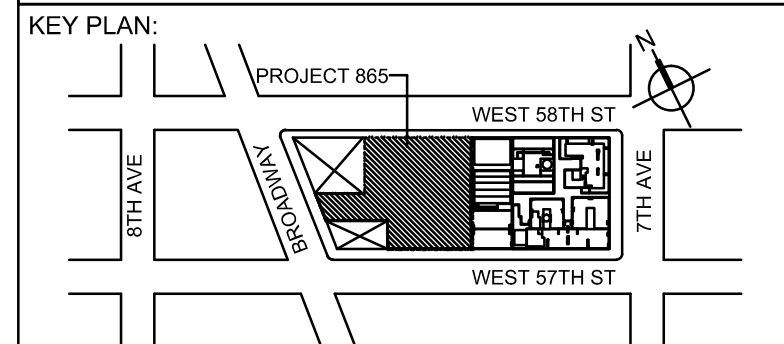
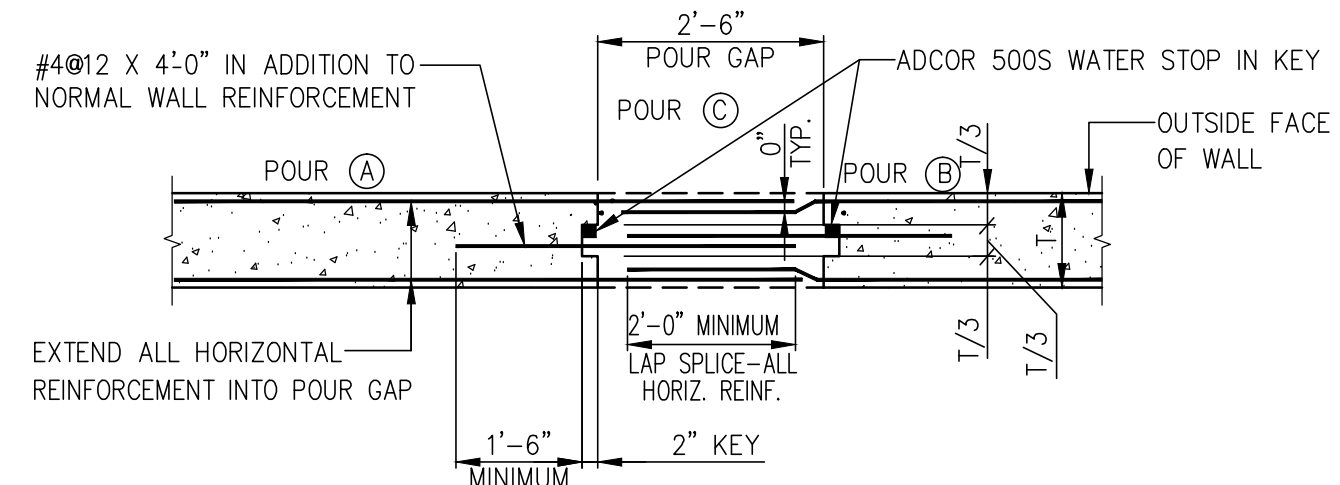
ALTERNATIVE SECTION A-A  
(AT STRAP BEAM MONOLITHIC WITH SLAB)



PLAN VIEW OF JOINT  
ALTERNATIVE-POUR GAP  
VERTICAL CONSTRUCTION JOINT  
IN FOUNDATION WALL

NOTES:

1. CONSTRUCTION JOINTS IN WALLS SHALL BE LOCATED AT LEAST FOUR FEET FROM FACE OF SUPPORTING PIER, FOOTING, PILE CAP, ETC., OR FROM WALL OPENING.
2. MAXIMUM SPACING BETWEEN JOINTS SHALL BE FORTY FEET UNLESS NOTED OTHERWISE ON THE FOUNDATION DRAWINGS.
3. CONCRETE SHALL NOT BE PLACED IN THE POUR GAP UNTIL 24 HOURS AFTER PLACEMENT OF THE MOST RECENT ADJACENT SECTION.
4. FOR JOINTS IN SHEARWALLS SEE DETAILS IN S-400 SERIES.



PROJECT NORTH

DEVELOPER: **Enell Development Company**

805 Third Avenue, 7TH FLOOR, New York, NY 10022 USA  
TEL: 212-712-4000 FAX: 212-712-4100

DESIGN ARCHITECT: **Base Building Shell & Core**  
**Adrian Smith & Gordon Gill Architecture**

111 W. Monroe Street Suite 2300 Chicago, IL 60603 USA  
TEL: 312 820 1888 FAX: 312 820 1775

ARCHITECT OF RECORD: **Base Building Shell & Core**  
**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 Cantor Seiuik**

228 East 45th Street, New York, NY 10017 USA  
TEL: 212-697-9688 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**

619 River Drive Center 1 Elmsford Park, NY 07407 USA  
TEL: 201 794 6900 FAX: 201 794 0368

CODE CONSULTANTS: **Construction Consulting Associates**

100 Church Street New York, NY 1000 USA  
TEL: 212-385-1818 FAX: 212-385-1911

AVITISECURITY CONSULTANTS: **The Clarent Group, LLC**

630 9th Avenue New York, NY 10036 USA  
TEL: 212-686-5840 FAX: 212-686-2180

INTERIOR DESIGNER: **Rotter Studio Architecture & Design Studio, NY, PLLC**

298 5th Avenue, 7th Floor New York, NY 10001 USA  
TEL: 212-688-8411 FAX: 212-941-0422

LANDSCAPE ARCHITECT: **HM White**

107 Grand Street, 6th Floor New York, NY 10013 USA  
TEL: 212-688-8411 FAX: 212-941-0422

LIGHTING DESIGNER: **Cline Bettridge Bernstein**

116 East 27th Street 4th Floor New York, NY 10016 USA  
TEL: 212-741-3200 FAX: 212-741-3112

FACADE MAINTENANCE CONSULTANT: **Entek Engineering, LLC**

166 Ames Street Hackensack, NJ 07601 USA  
TEL: 201-820-2801 FAX: 201-820-2804

POOL CONSULTANT: **Integrated Aquatics Engineering**

75 Shawell Avenue Doylestown, PA 18001 USA  
TEL: 215-230-8623 FAX: 215-230-8626

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

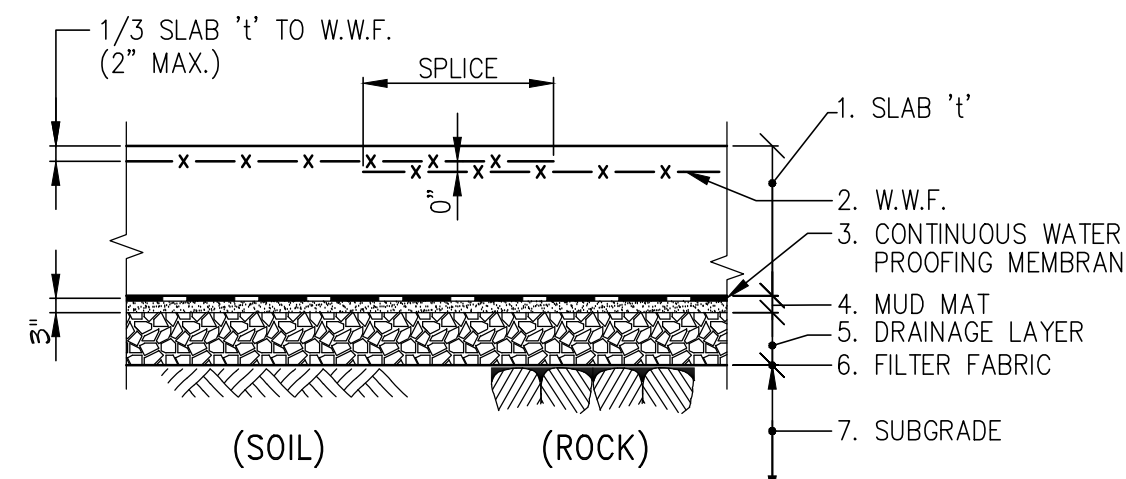
6 FOUNDATION 80% CD 05-22-2014

7 SUPERSTRUCTURE CONCRETE BID 06-02-2014

8 DOB FILING SET 06-17-2014

9 FOUNDATION 90% CD 07-01-2014



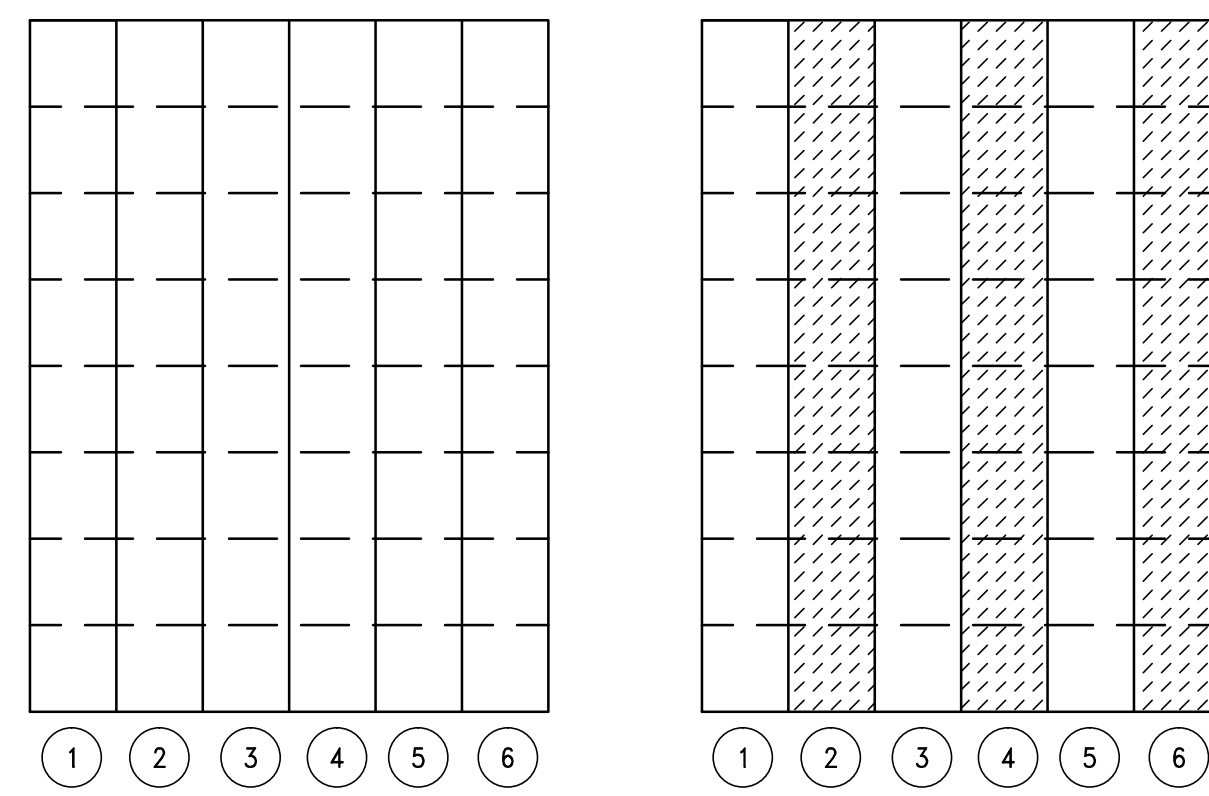


TYPICAL DETAIL - SLAB ON GROUND

## NOTES:

1. SLAB THICKNESS "t"=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 "t"	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



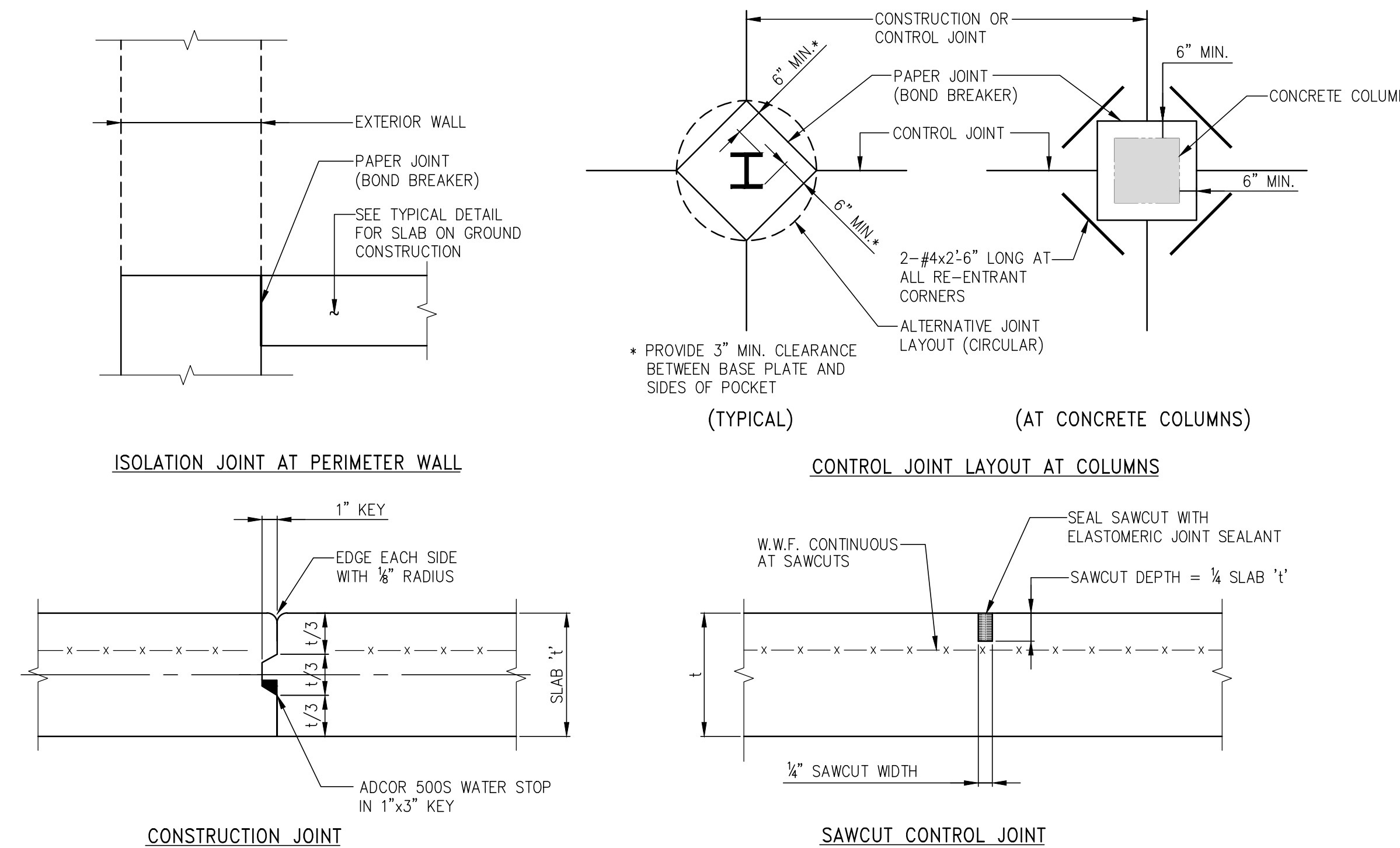
SUGGESTED SEQUENCE OF CASTING STRIPS

## SLAB ON GROUND NOTES:

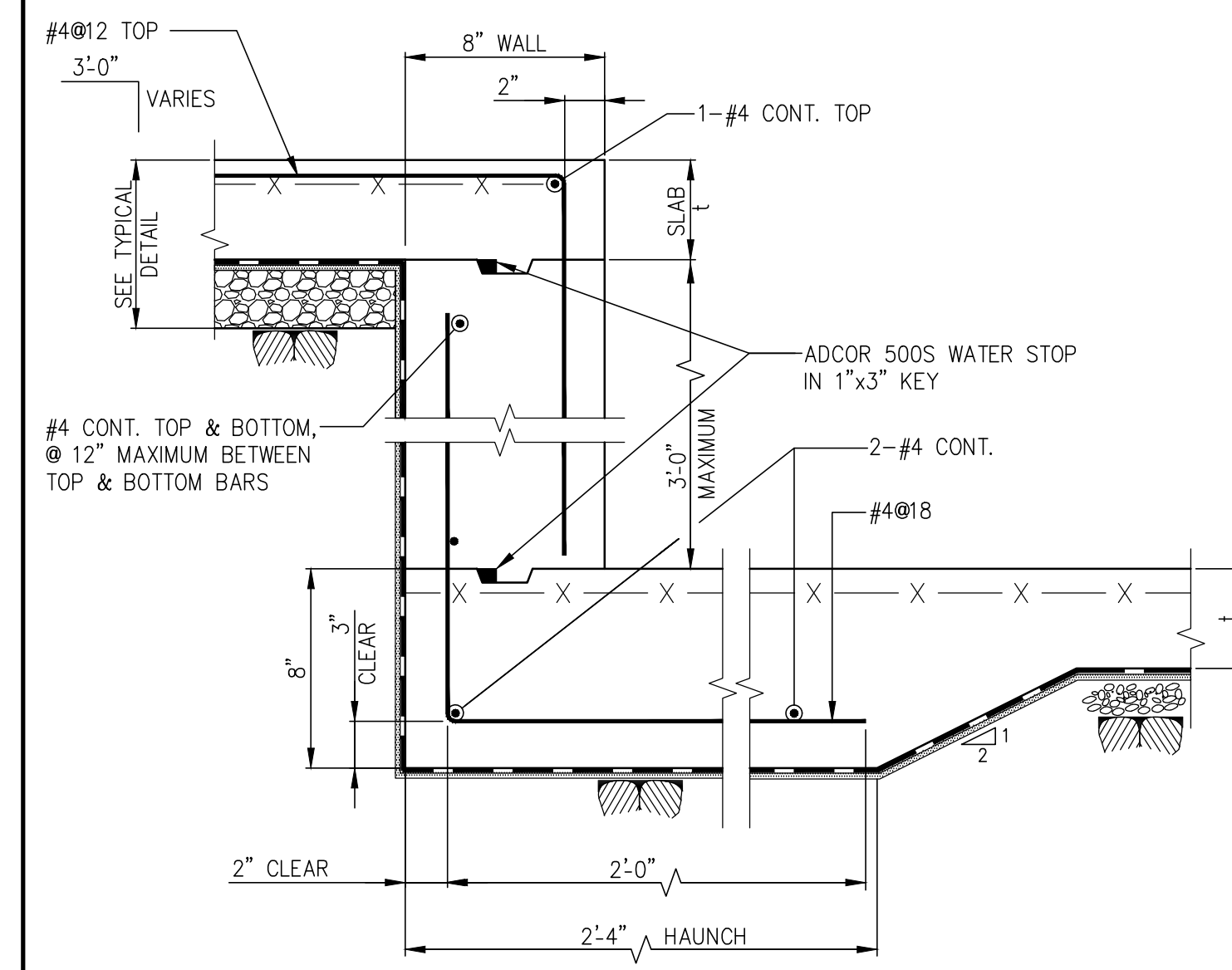
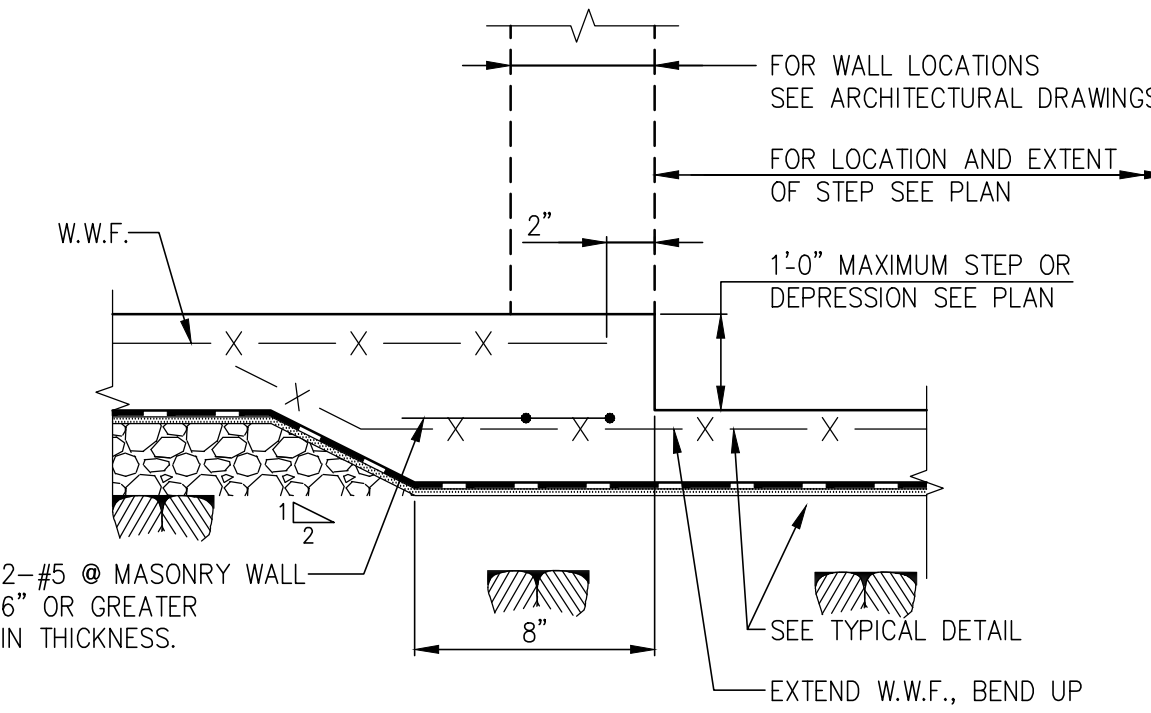
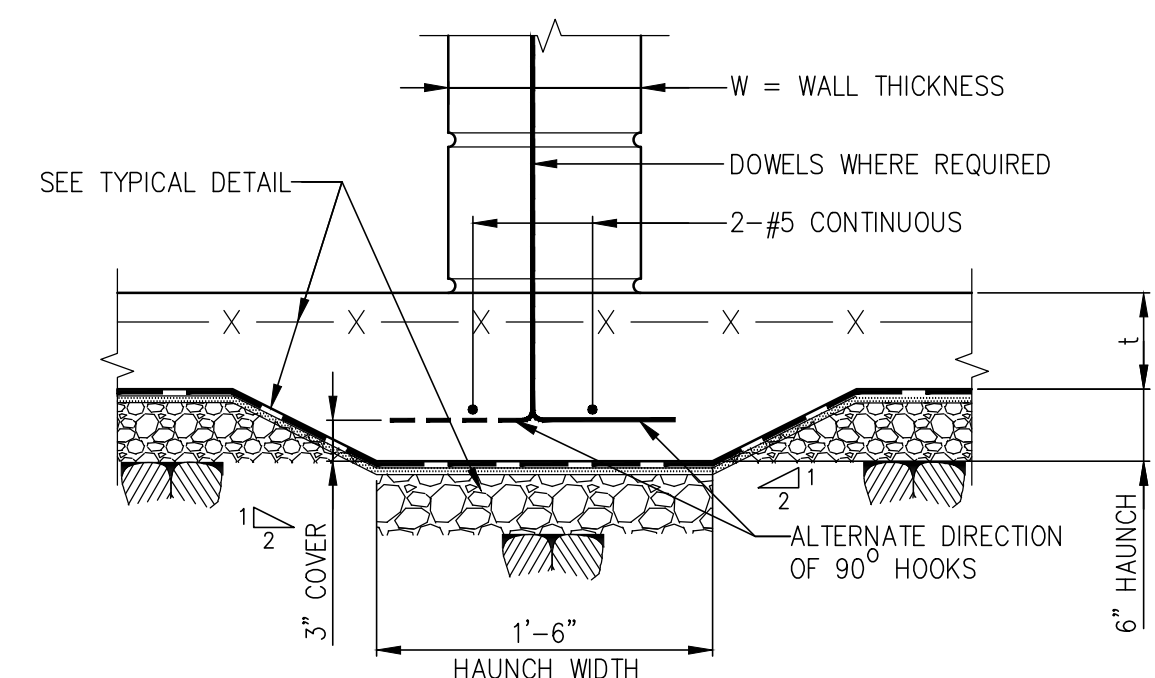
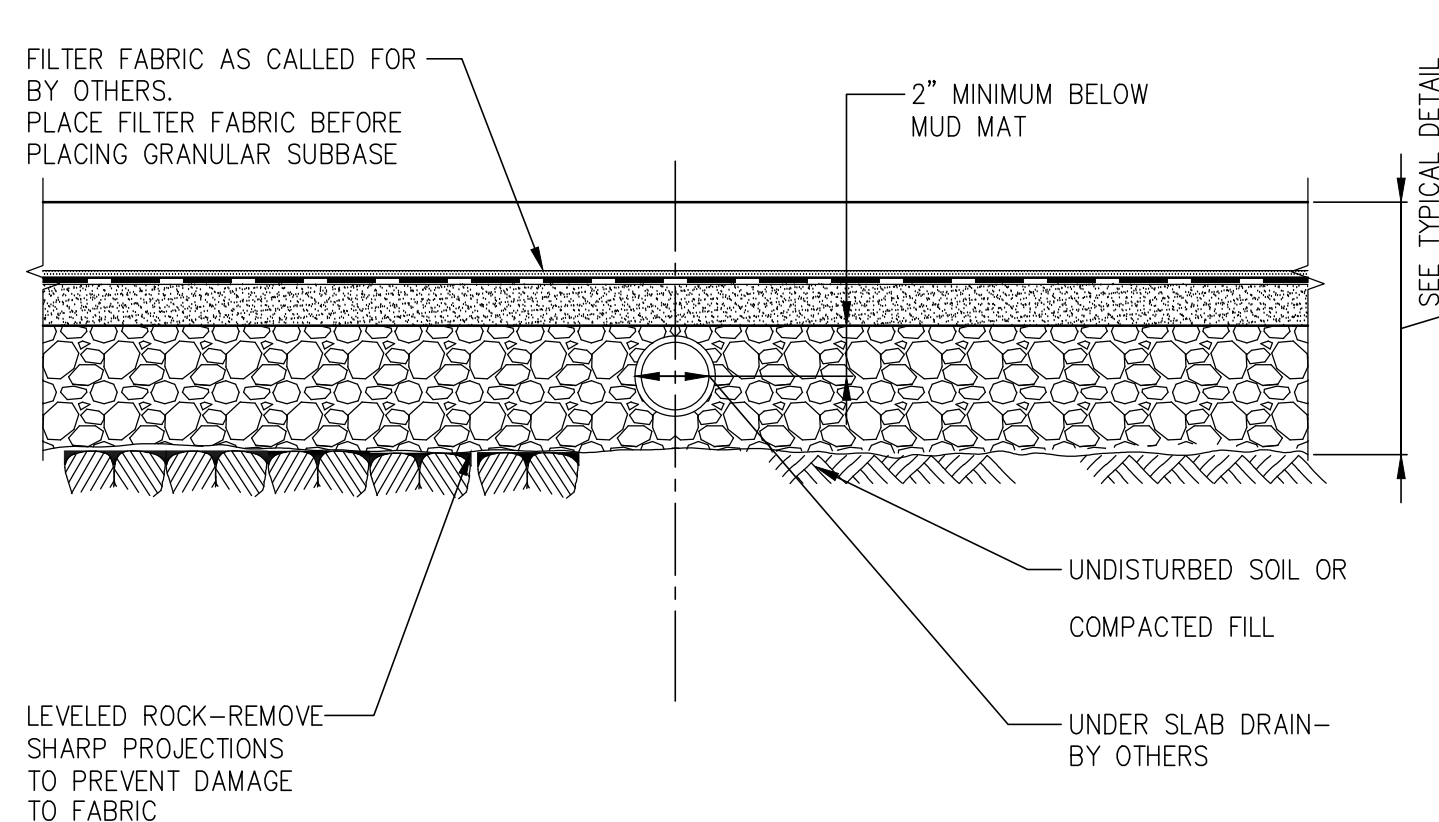
1. SLAB ON GROUND SHALL BE PLACED IN STRIPS, AS SHOWN IN "SUGGESTED SEQUENCE OF CASTING STRIPS".
2. CONTROL JOINTS SHALL BE SAWCUT AS SOON AS CONCRETE IS HARD ENOUGH NOT TO BE TORN OR DAMAGED BY THE BLADE, AND BEFORE THE CONCRETE STARTS TO COOL. TYPICALLY JOINTS SHOULD BE CUT 4 TO 12 HOURS AFTER THE 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

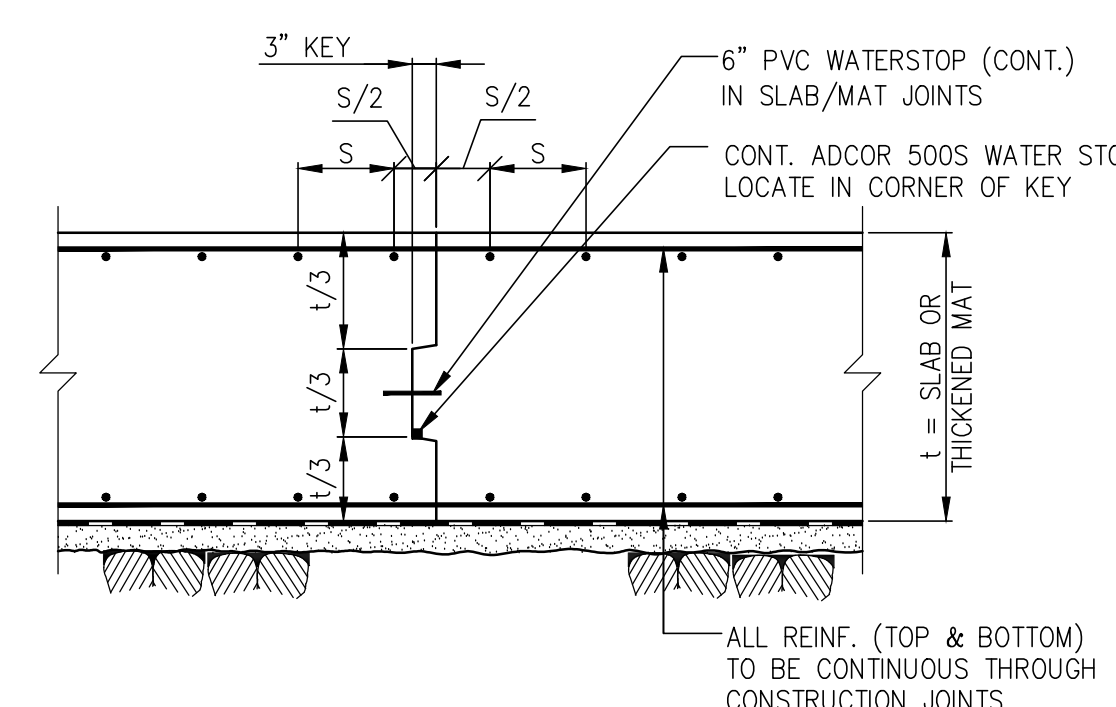


SLAB ON GROUND JOINT DETAILS

SLAB ON GROUND STEP OR DEPRESSION  
GREATER THAN 1'-0"SLAB ON GROUND STEP OR DEPRESSION  
1'-0" OR LESSTHICKENED SLAB AT MASONRY  
WALLS 6" THICK OR GREATER

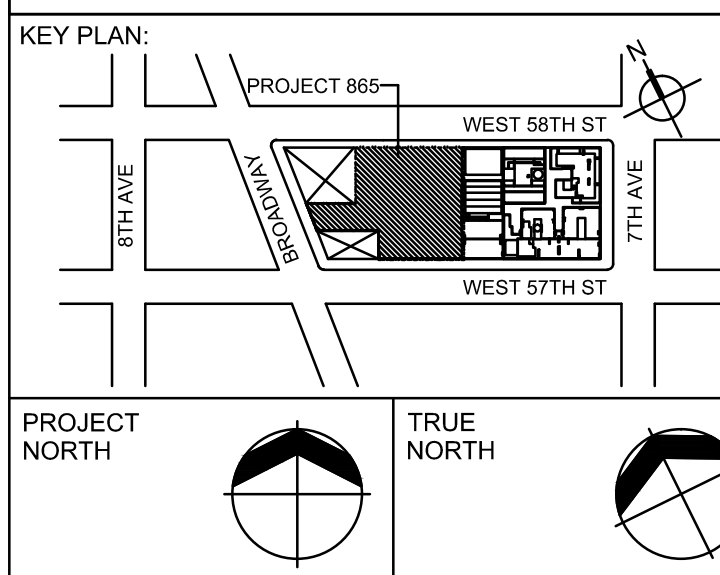
UNDER SLAB DRAIN

NOTE:  
THIS DETAIL IS INTENDED SOLELY TO SHOW TRENCHING IN  
SUBGRADE WHERE DRAINS ARE CALLED FOR BY OTHERS.



MAT FOUNDATION CONSTRUCTION JOINT

NOTE:  
CONTRACTOR SHALL SUBMIT CONSTRUCTION JOINT LOCATION TO  
E.O.R. FOR REVIEW AND APPROVAL.



## DEVELOPER:

**Enxell 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 W. Monroe Street Suite 2300 Chicago, IL 60603 USA  
TEL: 312 620 1888 FAX: 312 620 1775

ARCHITECT OF RECORD: Base Building Shell & Core  
**AJM 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 Cantor Seluk**  
228 EAST 45th Street, New York, NY 10017 USA  
TEL: 212-697-9888 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**  
619 River Drive Center 1 Elmwood Park, NJ 07407 USA  
TEL: 201.794.6900 FAX: 201.794.0368

## CODE CONSULTANTS:

**Construction Consulting Associates**  
100 Church Street New York, NY 1000 USA  
TEL: 212-385-1818 FAX: 212-385-1911

## AVITISECURITY CONSULTANTS:

**The Clarent Group, LLC**  
630 9th Avenue New York, NY 10036 USA  
TEL: 212-686-5840 FAX: 212-686-2180

## INTERIOR DESIGNER:

**Rotter Studio Architecture & Design Studio, NY, PLLC**  
298 5th Avenue, 7th Floor New York, NY 10001 USA  
TEL: 646-698-7000

## LANDSCAPE ARCHITECT:

**HM White**  
107 Grand Street, 6th Floor New York, NY 10013 USA  
TEL: 212-668-8411 FAX: 212-941-0422

## LIGHTING DESIGNER:

**Cline Bettridge Bernstein**  
116 East 27th Street 4th Floor New York, NY 10016 USA  
TEL: 212-741-3200 FAX: 212-741-3112

## FACADE MAINTENANCE CONSULTANT:

**Entek Engineering, LLC**  
166 Ames Street Hackensack, NJ 07601 USA  
TEL: 201-820-2801 FAX: 201-820-2804

## POOL CONSULTANT:

**Integrated Aquatics Engineering**  
75 Shawell Avenue Doylestown, PA 18001 USA  
TEL: 215-230-8623 FAX: 215-230-8626

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

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:

TYPICAL FOUNDATION  
DETAILS 3

## SEAL &amp; SIGNATURE:

DATE: 07/01/14

PROJECT No: 2012185

DRAWN: Author REV: 9

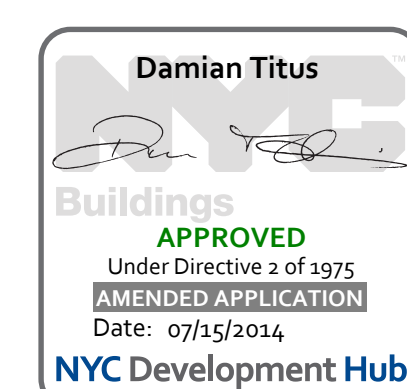
CHK: Checker

SCALE: INDICATES

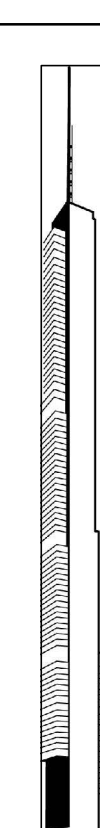
DWG No: **FO-202.01**

DOB PAGE No: DOB 5-SCAN:

DOB EMPLOYEE STAMP:







# TABLE #1:

## TENSION LAP SPICE LENGTHS (CLASS B MINIMUM)

**TABLE 1.A: 3/8" COVER TO OUTER LAYER BARS**  
OUTER LAYER LAP LENGTHS (IN INCHES)

BAR SIZE	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
#3	16	16	16	16	16	16	16	16
#4	21	20	20	20	20	20	20	20
#5	31	27	24	24	24	24	24	24
#6	43	37	33	30	29	29	29	29
#7	69	60	53	49	45	42	40	38
#8	85	74	66	60	56	52	49	47
#9	103	89	80	73	67	63	59	56
#10	121	105	94	86	79	74	70	66
#11	140	122	109	99	92	86	81	77

**TABLE 1.C: 1 1/2" COVER TO OUTER LAYER BARS**  
OUTER LAYER LAP LENGTHS (IN INCHES)

NOTE: USE TABLE 1.A IF BAR SPACING IS LESS THAN 5" O/C UP TO #5. 5" O/C FOR #9, #10, #11

BAR SIZE	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
#3	16	16	16	16	16	16	16	16
#4	20	20	20	20	20	20	20	20
#5	24	24	24	24	24	24	24	24
#6	29	29	29	29	29	29	29	29
#7	42	37	34	34	34	34	34	34
#8	53	46	41	39	39	39	39	39
#9	66	57	51	46	44	44	44	44
#10	79	68	61	56	51	49	49	49
#11	92	80	72	65	60	57	54	54

**TABLE 1.B: 3/8" COVER TO OUTER LAYER BARS**  
INNER LAYER LAP LENGTHS (IN INCHES)

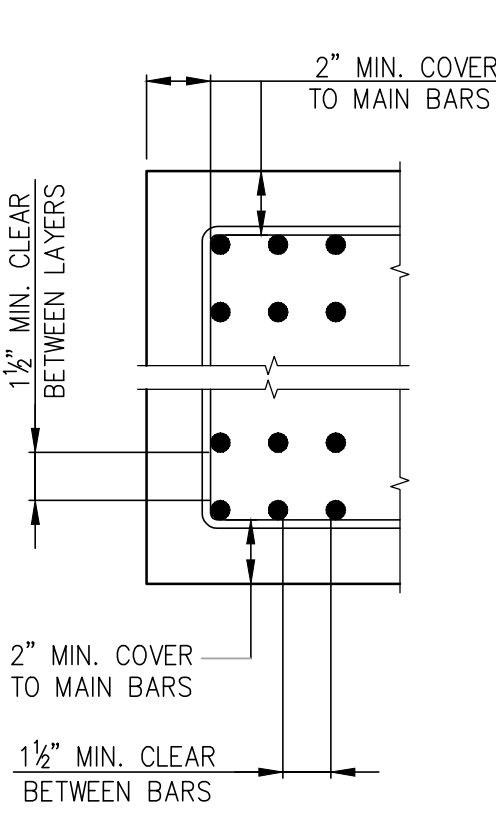
NOTE: USE TABLE 1.A IF BAR SPACING IS LESS THAN 5" O/C UP TO #5. 5" O/C FOR #9, #10, #11

BAR SIZE	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
#3	16	16	16	16	16	16	16	16
#4	20	20	20	20	20	20	20	20
#5	24	24	24	24	24	24	24	24
#6	30	29	29	29	29	29	29	29
#7	48	42	38	34	34	34	34	34
#8	61	53	47	43	40	39	39	39
#9	75	65	58	53	49	46	44	44
#10	89	77	69	63	58	55	51	49
#11	104	90	81	74	68	64	60	57

**TABLE 1.D: 1 1/2" COVER TO OUTER LAYER BARS**  
INNER LAYER LAP LENGTHS (IN INCHES)

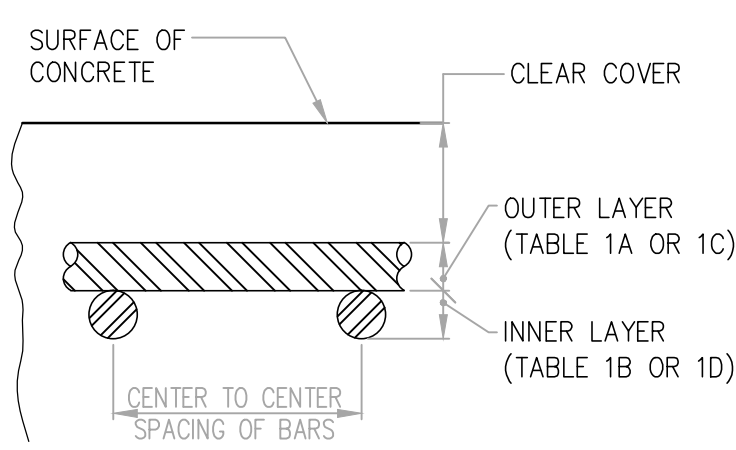
NOTE: USE TABLE 1.A IF BAR SPACING IS LESS THAN 5" O/C UP TO #5. 5" O/C FOR #9, #10, #11

BAR SIZE	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
#3	16	16	16	16	16	16	16	16
#4	20	20	20	20	20	20	20	20
#5	24	24	24	24	24	24	24	24
#6	29	29	29	29	29	29	29	29
#7	37	34	34	34	34	34	34	34
#8	43	39	39	39	39	39	39	39
#9	53	46	44	44	44	44	44	44
#10	64	55	49	49	49	49	49	49
#11	75	65	58	54	54	54	54	54



MULTIPLE LAYERS

PROVIDE MINIMUM COVER AND CLEARANCES SHOWN, USE TABLE 1.A FOR LAP SPICE LENGTHS.



## NOTES FOR TENSION LAP SPICES

- REINFORCEMENT IS UNCOATED, WITH  $F_y=60,000$  PSI.
- CONCRETE IS NORMAL WEIGHT (144-150#/C.F.).
- FOR "TOP" BAR SPICE LENGTHS ("TOP" IS DEFINED BY A01.318 AS HAVING MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW THE BAR), TABULATED LENGTHS MUST BE MULTIPLIED BY 1.3.
- LENGTHS TABULATED MUST BE MULTIPLIED BY THE FOLLOWING MODIFICATION FACTORS:
  - LIGHTWEIGHT CONCRETE .....1.3
  - EPOXY-COATED BARS:
    - BARS WITH COVER < 3db, OR WITH CLEAR SPACING < 6db .....1.3 FOR "TOP" BARS & 1.3 FOR "TOP" BARS
    - ALL OTHER CONDITIONS .....1.2
- WHERE TENSION DEVELOPMENT LENGTH ( $L_d$ ) IS REQUIRED ON PLANS OR IN DETAILS, SEE TENSION DEVELOPMENT LENGTH TABLES.
- CLASS A LAP SPICE LENGTHS ARE EQUAL TO TENSION DEVELOPMENT LENGTHS. SEE TABLES FOR TENSION DEVELOPMENT LENGTHS ( $L_d$ ). APPLY APPROPRIATE MODIFICATION FACTORS TO CLASS A SPICE LENGTHS.

# TABLE #2:

## TENSION DEVELOPMENT LENGTHS ( $L_d$ ) (IN INCHES)

### TABLE 2.A: 3/8" COVER TO OUTER LAYER BARS

#### OUTER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
#3	12	12	12	12	12	12	12	12
#4	16	14	13	12	12	12	12	12
#5	24	21	19	17	16	15	14	13
#6	33	28	25	23	22	20	19	18
#7	53	46	41	37	35	32	31	29
#8	66	57	51	46	43	40	38	36
#9	79	69	61	56	52	49	46	43
#10	93	81	72	66	61	57	54	51
#11	108	94	84	76	71	66	62	59

### TABLE 2.C: 1 1/2" COVER TO OUTER LAYER BARS

#### OUTER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
#3	12	12	12	12	12	12	12	12
#4	13	12	12	12	12	12	12	12
#5	16	14	13	13	13	13	13	13
#6	20	17	15	15	15	15	15	15
#7	32	28	25	23	21	20	19	18
#8	41	36	32	29	27	25	24	23
#9	50	44	39	36	33	31	29	28
#10	60	52	47	43	40	37	35	33
#11	71	61	55	50	46	43	41	39

### TABLE 2.B: 3/8" COVER TO OUTER LAYER BARS

#### INNER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
#3	12	12	12	12	12	12	12	12
#4	13	12	12	12	12	12	12	12
#5	16	14	13	13	13	13	13	13
#6	23	20	18	16	15	15	15	15
#7	37	32	29	26	24	23	22	20
#8	47	41	36	33	31	29	27	26
#9	57	50	44	41	38	35	33	31
#10	68	59	53	48	45	42	40	38
#11	80	69	62	57	52	49	46	44

### TABLE 2.D: 1 1/2" COVER TO OUTER LAYER BARS

#### INNER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
#3	12	12	12	12	12	12	12	12
#4	13	12	12	12	12	12	12	12
#5	16	14	13	13	13	13	13	13
#6	20	17	15	15	15	15	15	15
#7	29	25	22	20	19	18	18	18
#8	33	28	25	23	22	20	20	20
#9	41	35	31	29	27	25	23	23
#10	49	42	38	35	32	30	28	27
#11	58	50	45	41	38	35	33	32

NOTES FOR TENSION DEVELOPMENT LENGTHS ( $L_d$ )

- REINFORCEMENT IS UNCOATED, WITH  $F_y=60,000$  PSI.
- CONCRETE IS NORMAL WEIGHT (144-150#/C.F.).
- FOR "TOP" BAR DEVELOPMENT LENGTHS ("TOP" IS DEFINED BY A01.318 AS HAVING MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW THE BAR), TABULATED LENGTHS MUST BE MULTIPLIED BY 1.3.
- LENGTHS TABULATED MUST BE MULTIPLIED BY THE FOLLOWING MODIFICATION FACTORS:
  - LIGHTWEIGHT CONCRETE .....1.3
  - EPOXY-COATED BARS:
    - BARS WITH COVER < 3db, OR WITH CLEAR SPACING < 6db .....1.3 FOR "TOP" BARS & 1.3 FOR "TOP" BARS
    - ALL OTHER CONDITIONS .....1.2 FOR "TOP" BARS
- WHERE TENSION DEVELOPMENT LENGTH ( $L_d$ ) IS REQUIRED ON PLANS OR IN DETAILS, SEE TENSION DEVELOPMENT LENGTH TABLES.
- CLASS A LAP SPICE LENGTHS ARE EQUAL TO TENSION DEVELOPMENT LENGTHS. SEE TABLES FOR TENSION DEVELOPMENT LENGTHS ( $L_d$ ). APPLY APPROPRIATE MODIFICATION FACTORS TO CLASS A SPICE LENGTHS.

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

## NOTES:

- TABLE 2 CONFORMS TO A01.318-2002 (AND 2005). TABULATED VALUES ARE BASED UPON A01.12.5.2, ASSUMING GRADE 60 REINFORCEMENT AND NORMALWEIGHT CONCRETE.
- PER A01.12.5.3 a), FOR #11 AND SMALLER BARS, IF COVER TO BAR IS 25 INCHES OR MORE, AND FOR 90 DEGREE HOOK WITH COVER OR BAR EXTENSION BEYOND HOOK NOT LESS THAN 2 INCHES, A MODIFICATION FACTOR OF 0.7 MAY BE APPLIED. MINIMUM  $l_{dh}$  SHALL NOT BE LESS THAN 3db NOR 6 INCHES.

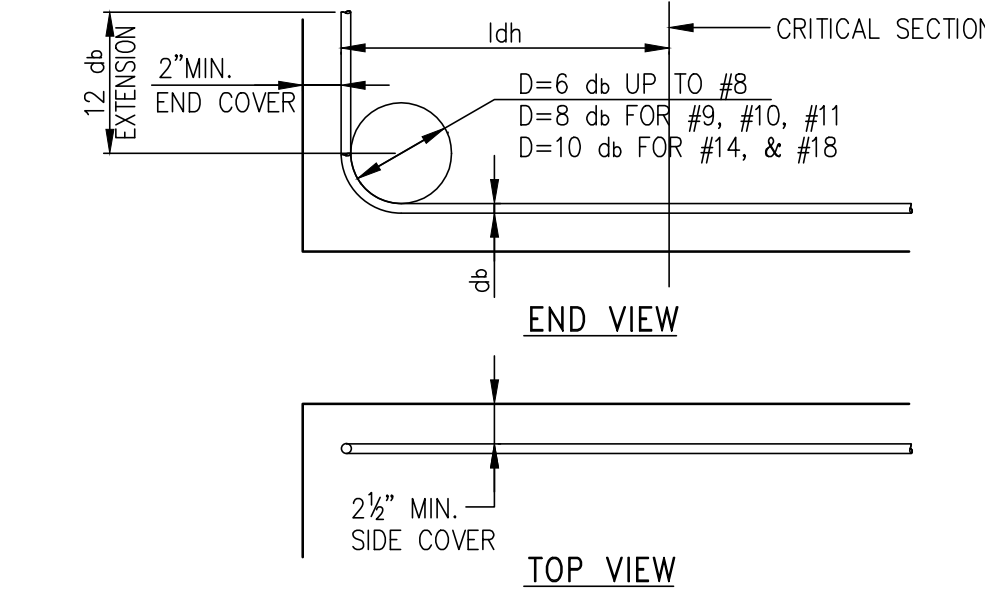


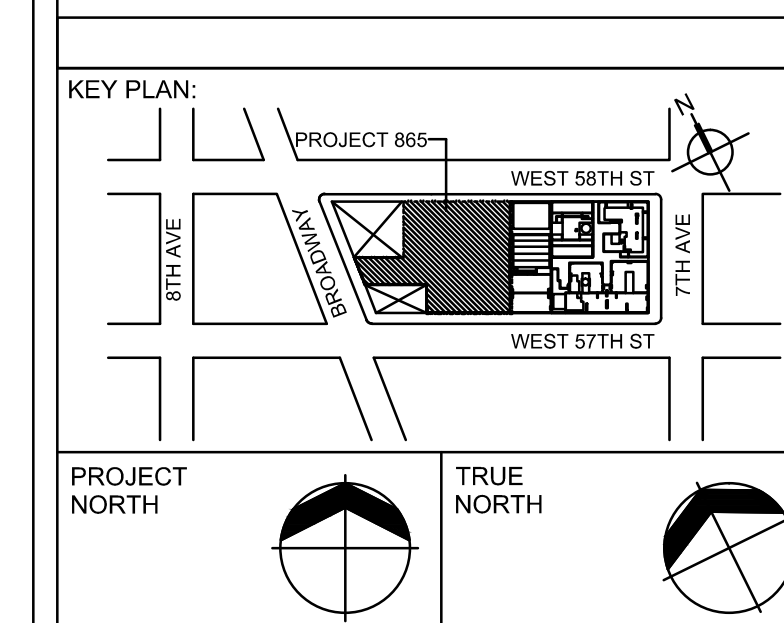
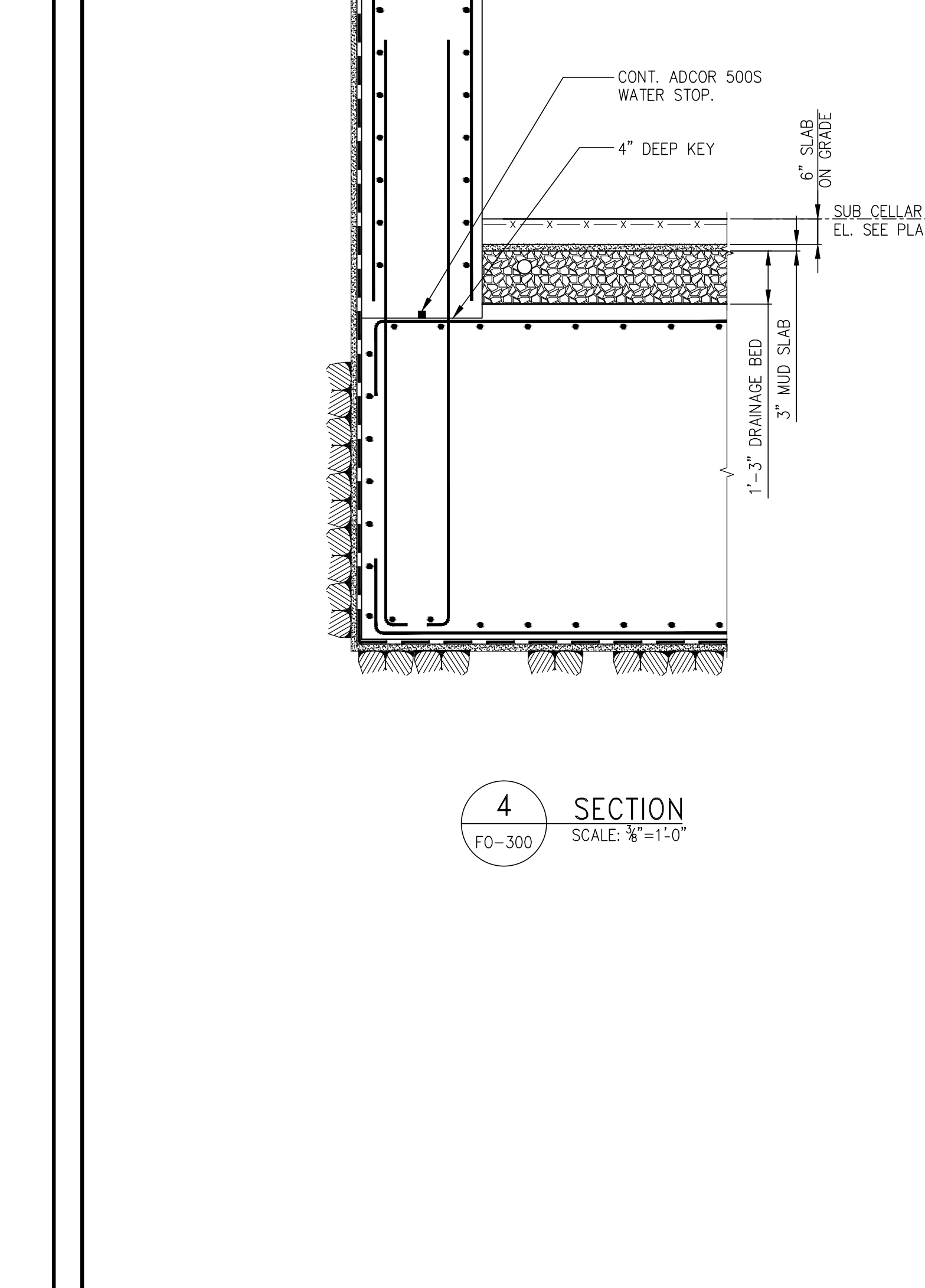
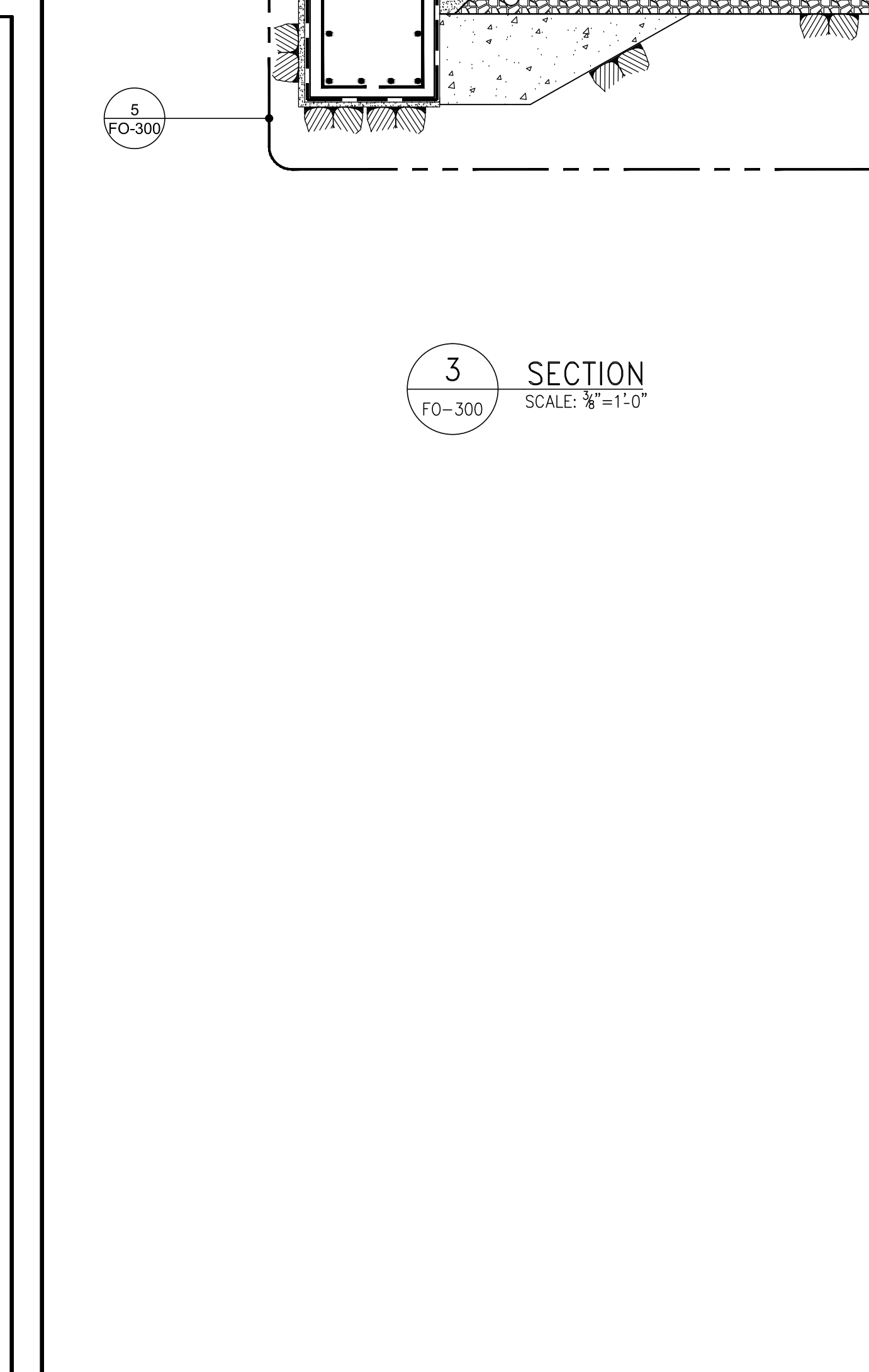
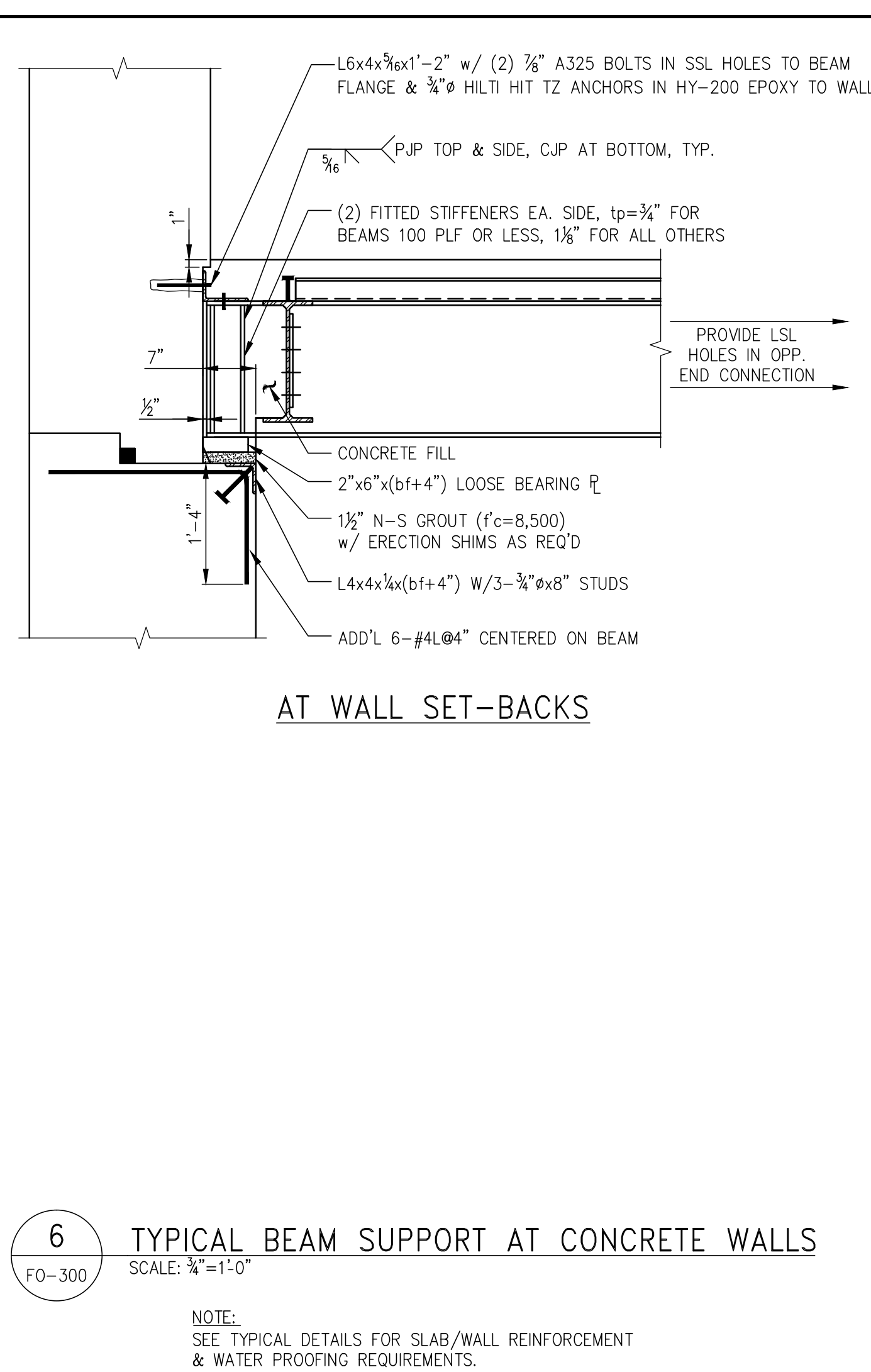
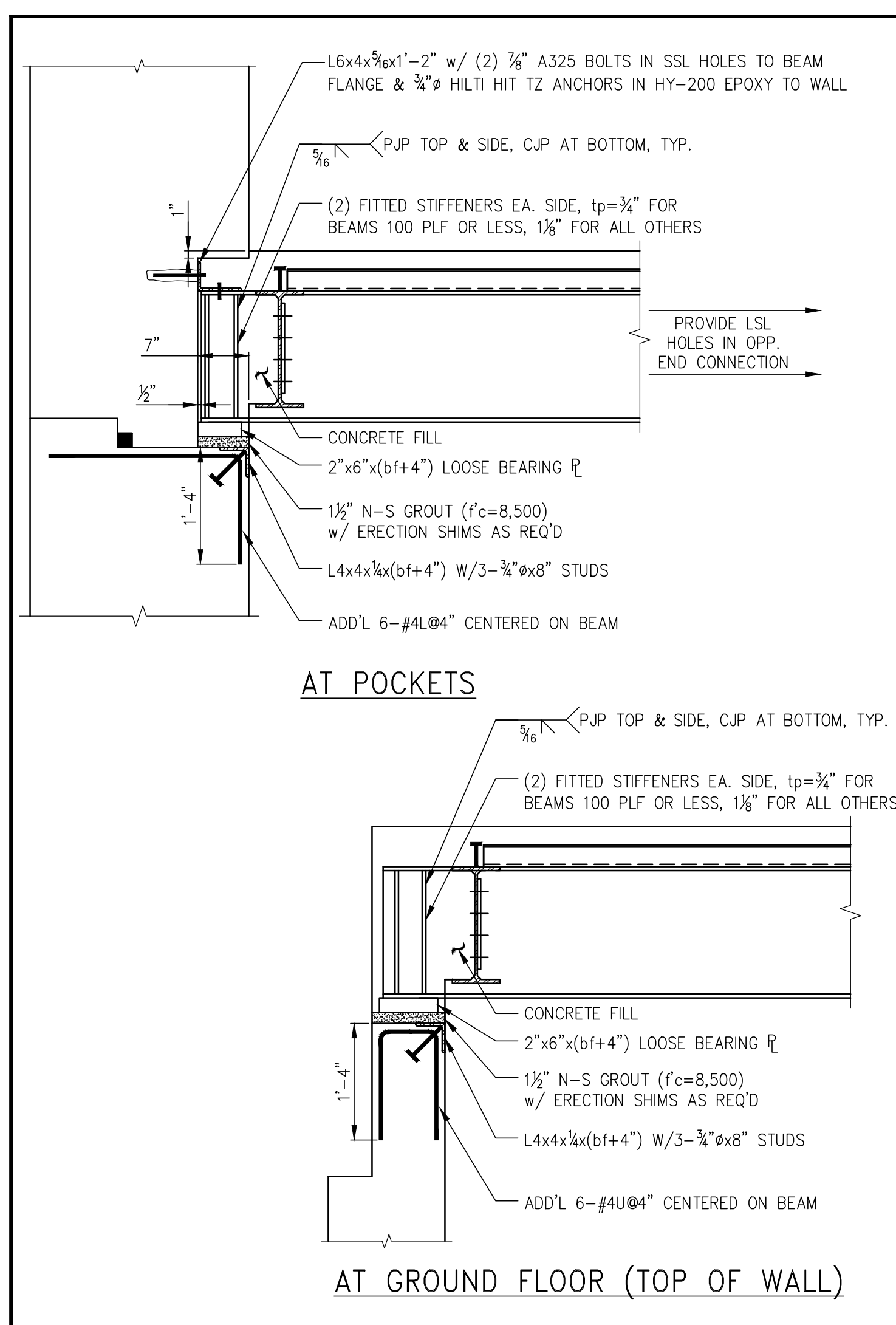
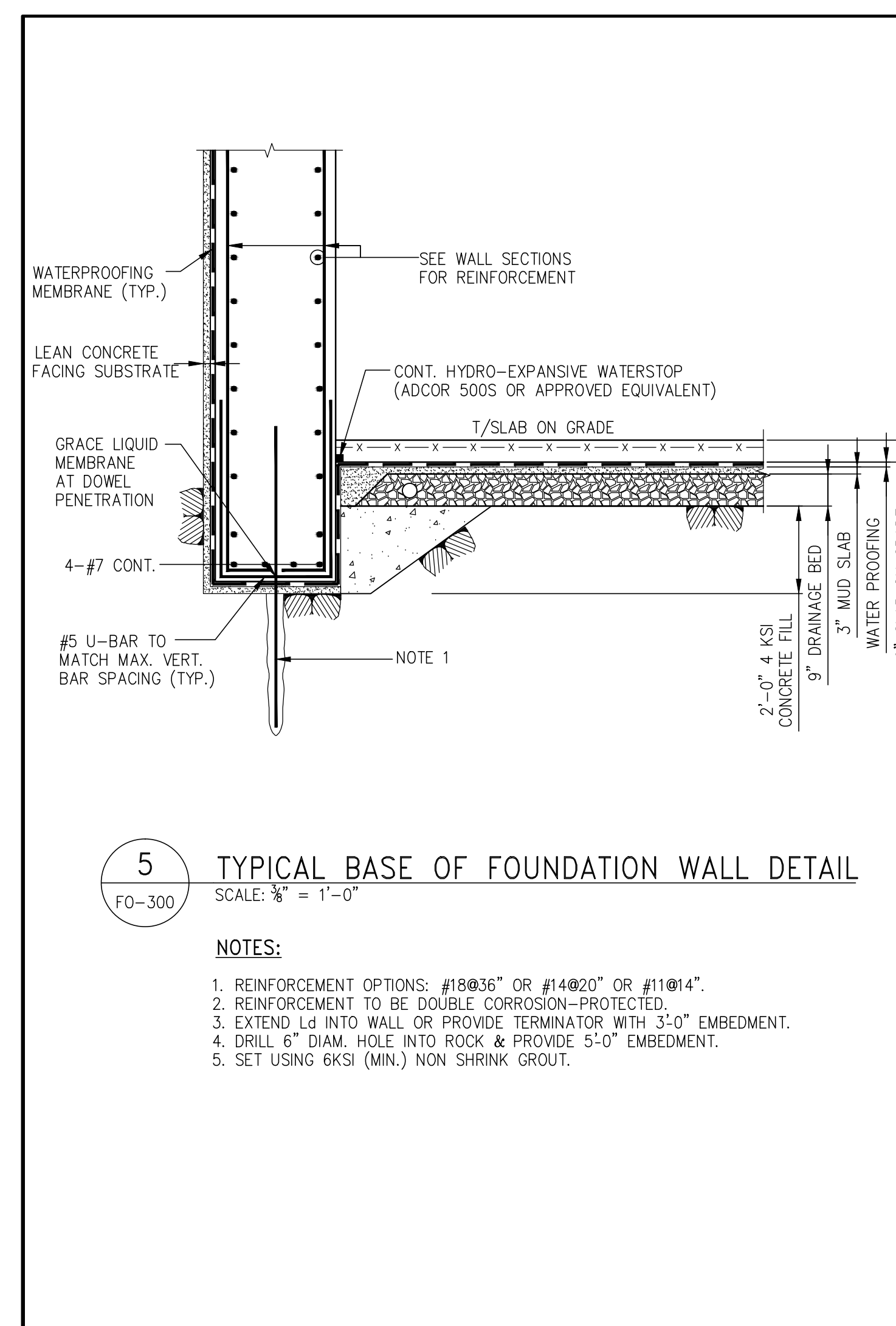
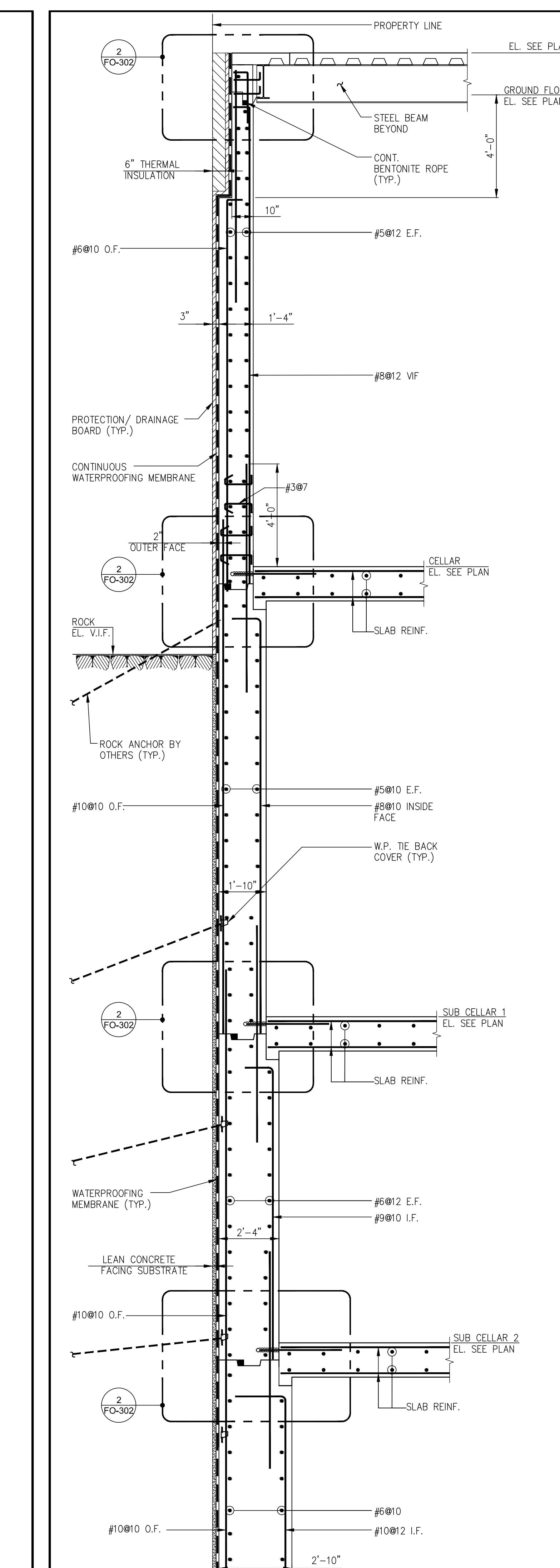
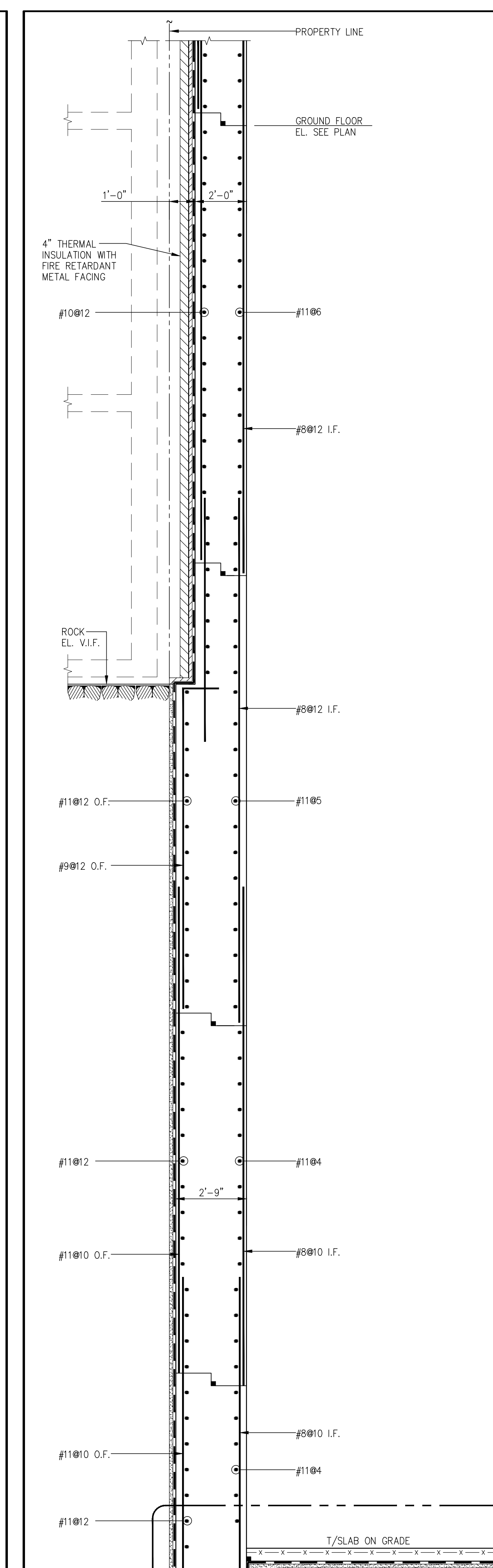
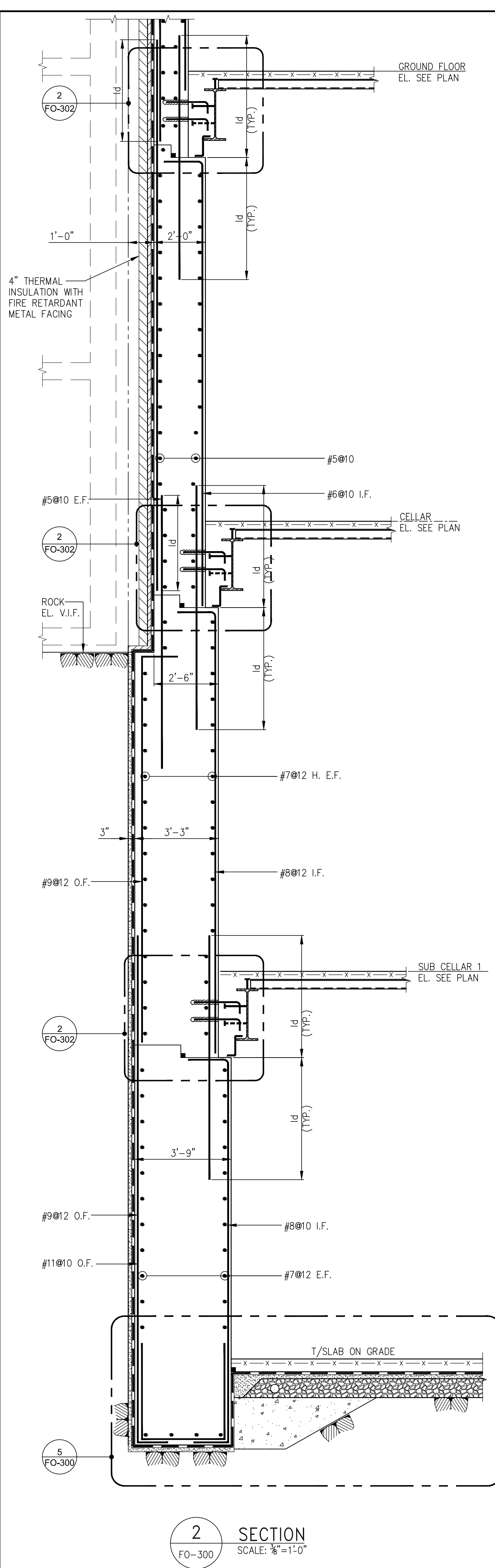
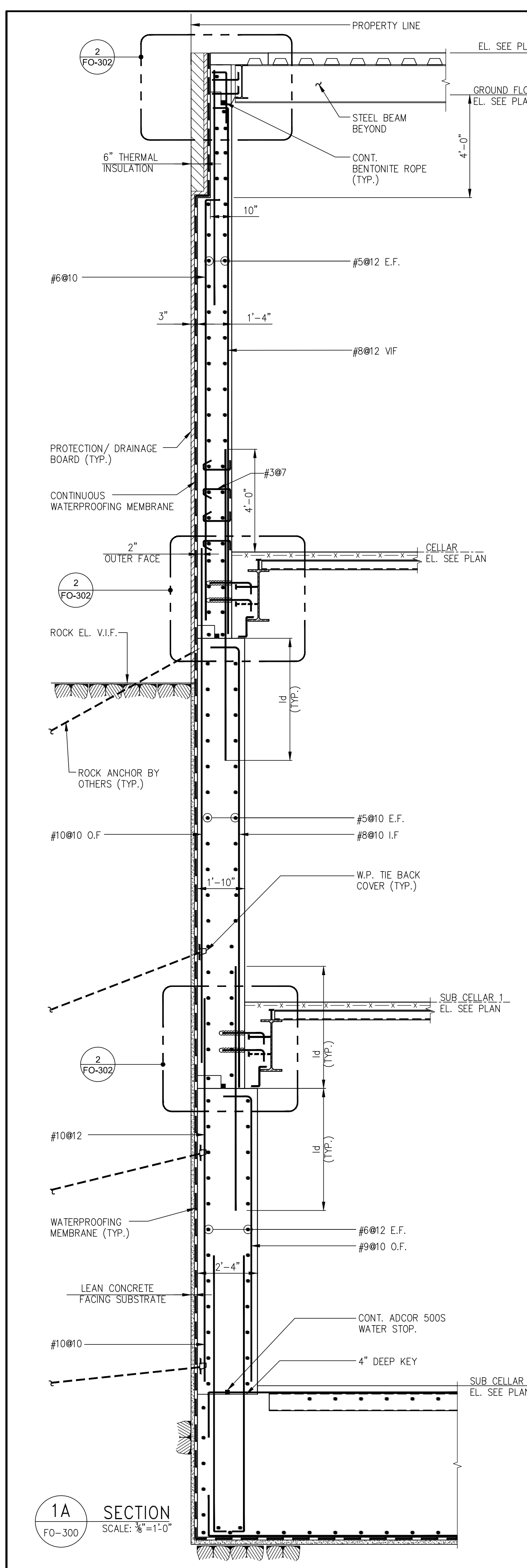
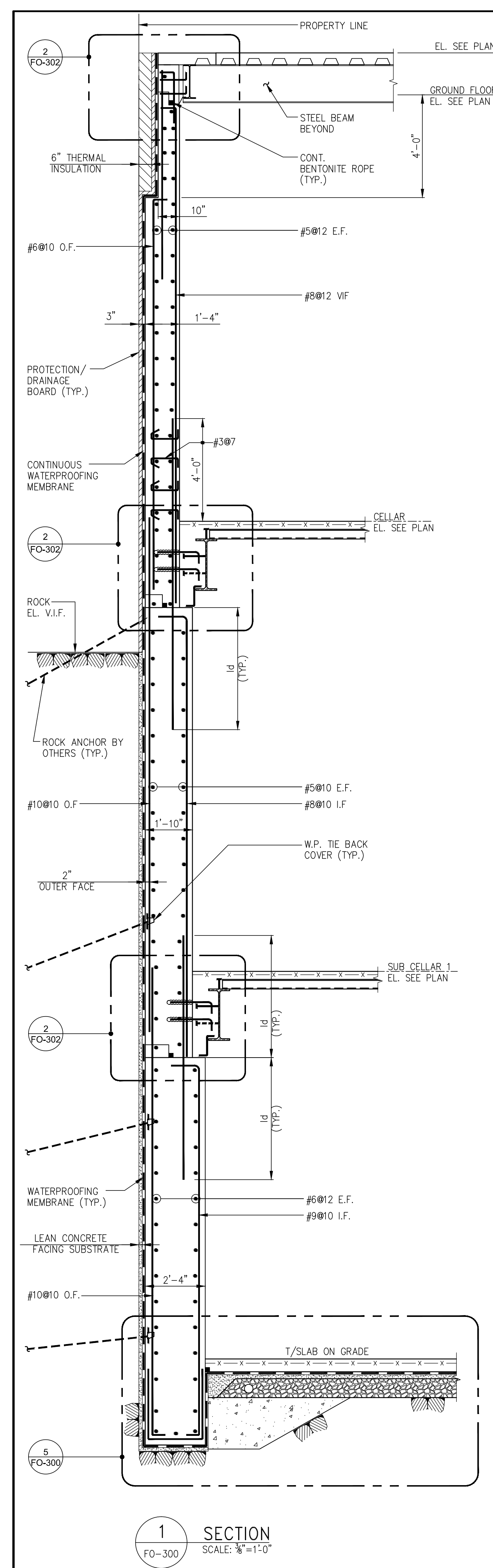
TABLE #4 COMPRESSION LAP SPICES (LENGTHS IN INCHES)				
BAR SIZE	GRADE OF REINFORCEMENT			
	60 KSI (30 DIA.)	75 KSI (44 DIA.)	80 KSI (48 DIA.)	
#3	12	17	18	
#4	15	22	24	
#5	19	28	30	
#6	23	33	36	
#7	27	39	42	
#8	30	44	48	
#9	34	50	54	
#10	38	56	61	
#11	43	62	68	

## NOTE:

TABLE #3 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	14	12	12	15	13	12
#5	14	12	12	17	15	14	18	16	15
#6	17	15	14	21	18	17	22	19	18
#7	19	17	16	24	21	20	26	22	21
#8	22	19	18	28	24	23	29	25	24
#9	25	22	21	31	27	25	33	28	27
#10	28	24	23	34	30	28	36	31	30
#11	31	27	26	38	33	31	40	34	33
#14	37	32	31	48	42	39	51	44	42
#18	50	43	41	62	54	51	65	56	54





**DEVELOPER:**  
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 W. Monroe Street Suite 2300 Chicago, IL 60603 USA  
TEL: 312 620 1888 FAX: 312 620 1775

**ARCHITECT OF RECORD:** Base Building Shell & Core  
**AJM Architects, P.C.**  
401 Wellington St. W., 3rd Floor Toronto, Ontario, ON M5V 1E7 Canada  
TEL: 416-967-1500 FAX: 416-967-1150

**STRUCTURAL ENGINEERS:**  
**WSP Cantor Seluk**  
228 East 46th Street, New York, NY 10017 USA  
TEL: 212-697-9888 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**  
619 River Drive Center 1 Elmsford, NJ 07407 USA  
TEL: 201-794-6900 FAX: 201-794-0368

**CODE CONSULTANTS:**  
**Construction Consulting Associates**  
100 Church Street New York, NY 1000 USA  
TEL: 212-385-1818 FAX: 212-385-1911

**AVITISECURITY CONSULTANTS:**  
**The Client Group, LLC**  
630 9th Avenue New York, NY 10036 USA  
TEL: 212-686-5840 FAX: 212-686-2180

**INTERIOR DESIGNER:**  
**Rottet Studio Architecture & Design Studio, NY, PLLC**  
298 5th Avenue, 7th Floor New York, NY 10001 USA  
TEL: 646-698-7000

**LANDSCAPE ARCHITECT:**  
**HM White**  
107 Grand Street, 6th Floor New York, NY 10013 USA  
TEL: 212-668-8411 FAX: 212-941-0422

**LIGHTING DESIGNER:**  
**Cline Bettridge Bernstein**  
116 East 27th Street 4th Floor New York, NY 10016 USA  
TEL: 212-741-3200 FAX: 212-741-3112

**FACADE MAINTENANCE CONSULTANT:**  
**Entek Engineering, LLC**  
166 Ames Street Hackensack, NJ 07601 USA  
TEL: 201-820-2801 FAX: 201-820-2804

**POOL CONSULTANT:**  
**Integrated Aquatics Engineering**  
75 Shawell Avenue Doylestown, PA 18001 USA  
TEL: 215-230-8623 FAX: 215-230-8626

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

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 46th Street New York, NY 10017 (212) 687-9888 www.wspgroup.com/usa

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

**DRAWING TITLE:**  
**TYPICAL SECTIONS 1**

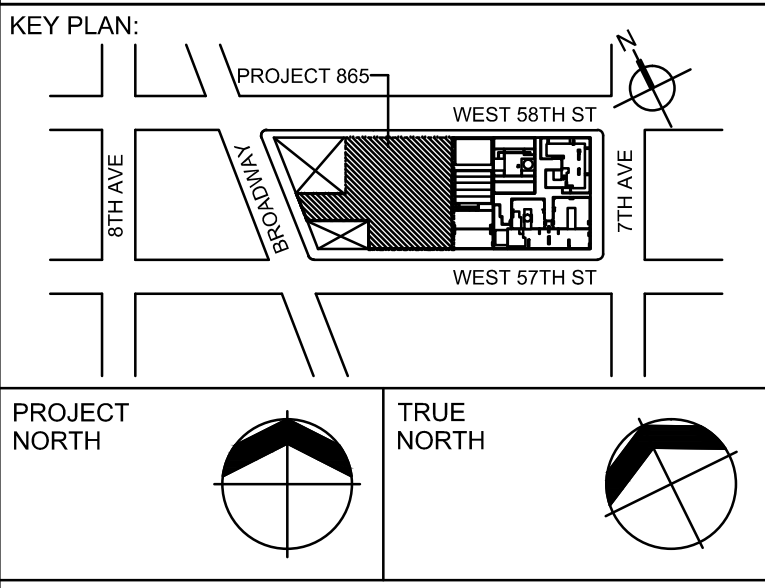
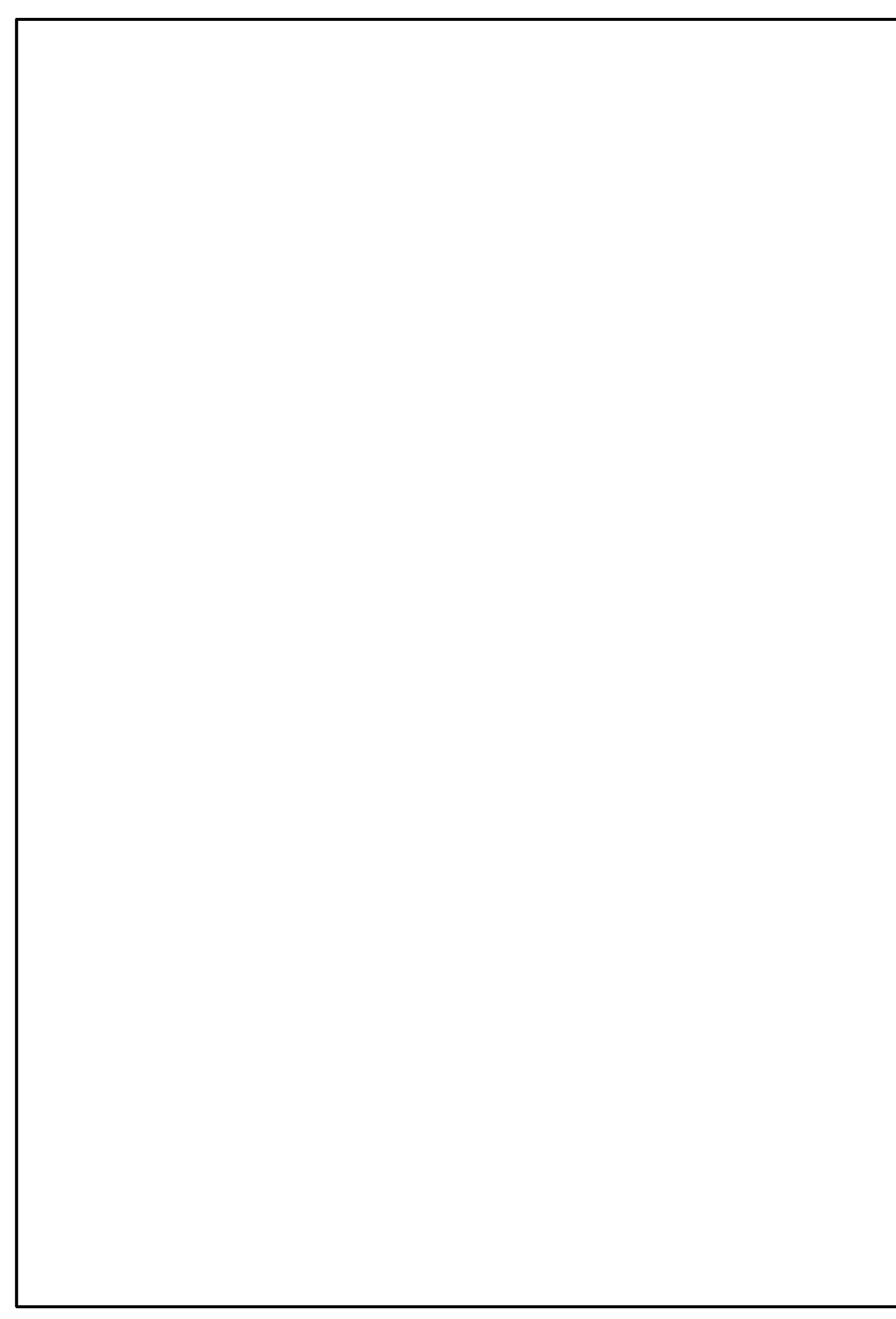
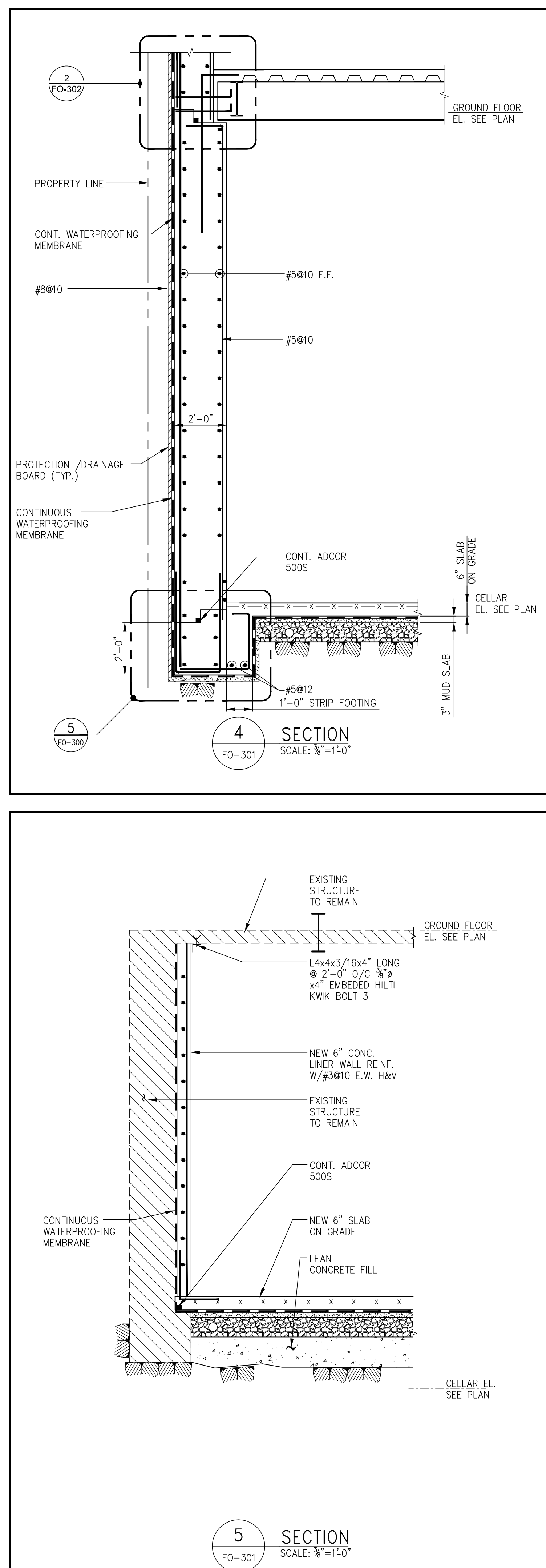
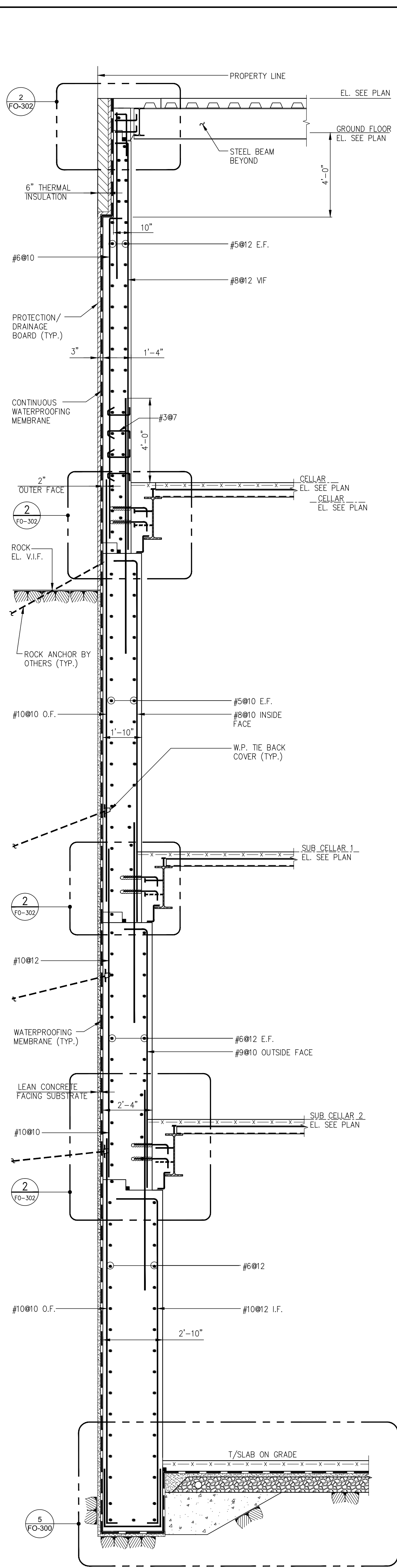
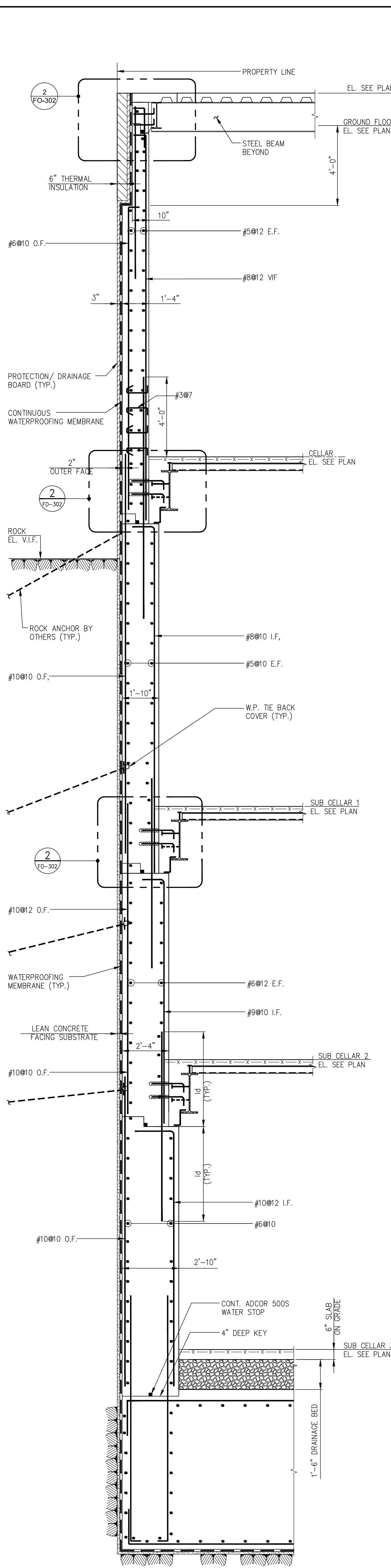
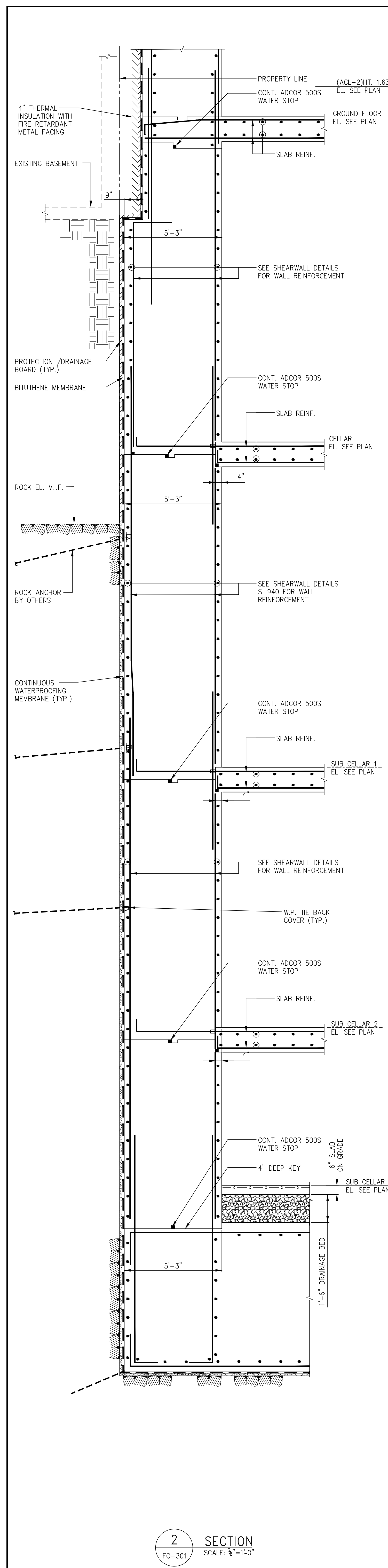
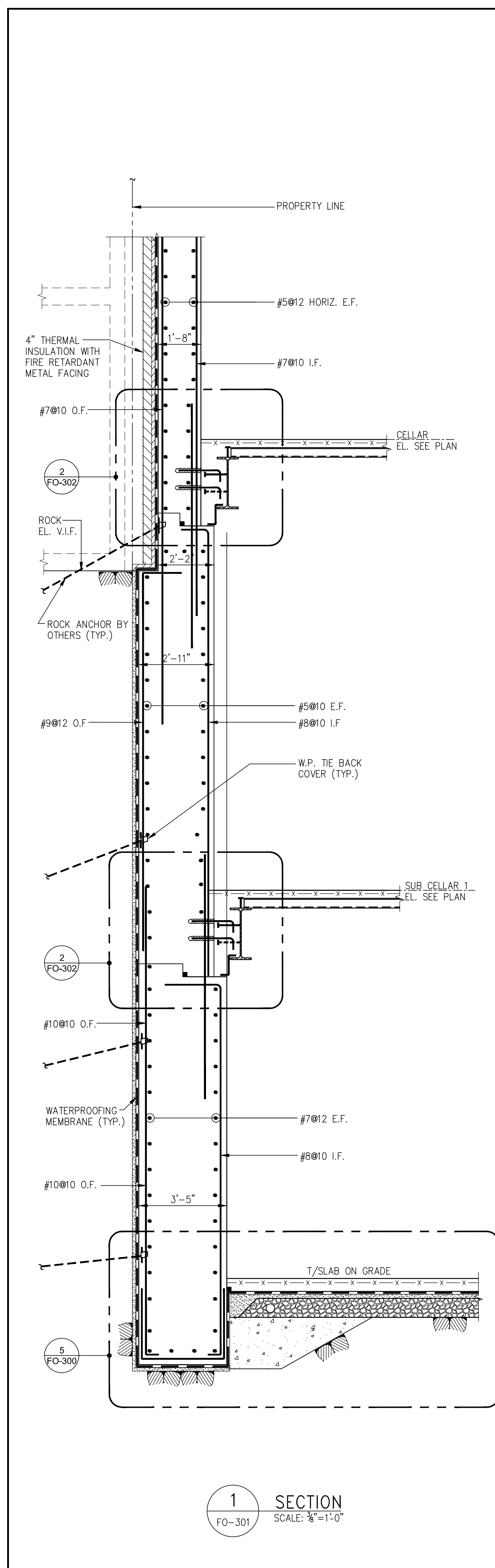
SEAL & SIGNATURE	DATE:
	07/01/14

PROJECT No:	2012185
DRAWN: Author	REV: 9
CHK: Checker	SCALE: INDICATES
DWG No:	FO-300.01

DOB EMPLOYEE STAMP:

DOB 5-SCAN:





DEVELOPER: **Excell 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 W. Monroe Street Suite 2300 Chicago, IL 60603 USA  
TEL: 312 620 1888 FAX: 312 620 1775

ARCHITECT OF RECORD: **Base Building Shell & Core**  
**AJM 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 Cantor Seinuk**  
228 East 45th Street, New York, NY 10017 USA  
TEL: 212-697-9888 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**  
619 River Drive Center 1 Elmwood Park, NJ 07407 USA  
TEL: 201-794-6900 FAX: 201-794-0366

CODE CONSULTANTS: **Construction Consulting Associates**  
100 Church Street New York, NY 1000 USA  
TEL: 212-385-1818 FAX: 212-385-1911

AVITISECURITY CONSULTANTS: **The Clarent Group, LLC**  
630 9th Avenue New York, NY 10036 USA  
TEL: 212-686-5840 FAX: 212-686-2180

INTERIOR DESIGNER: **Rotter Studio Architecture & Design Studio, NY, PLLC**  
298 5th Avenue, 7th Floor New York, NY 10001 USA  
TEL: 646-698-7000

LANDSCAPE ARCHITECT: **HM White**  
107 Grand Street, 6th Floor New York, NY 10013 USA  
TEL: 212-668-8411 FAX: 212-941-0422

LIGHTING DESIGNER: **Cline Bettridge Bernstein**  
116 East 27th Street 4th Floor New York, NY 10016 USA  
TEL: 212-741-3200 FAX: 212-741-3112

FACADE MAINTENANCE CONSULTANT: **Entek Engineering, LLC**  
166 Ames Street Hackensack, NJ 07601 USA  
TEL: 201-820-2801 FAX: 201-820-2804

POOL CONSULTANT: **Integrated Aquatics Engineering**  
75 Shawell Avenue Doylestown, PA 18001 USA  
TEL: 215-230-8623 FAX: 215-230-8626

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

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

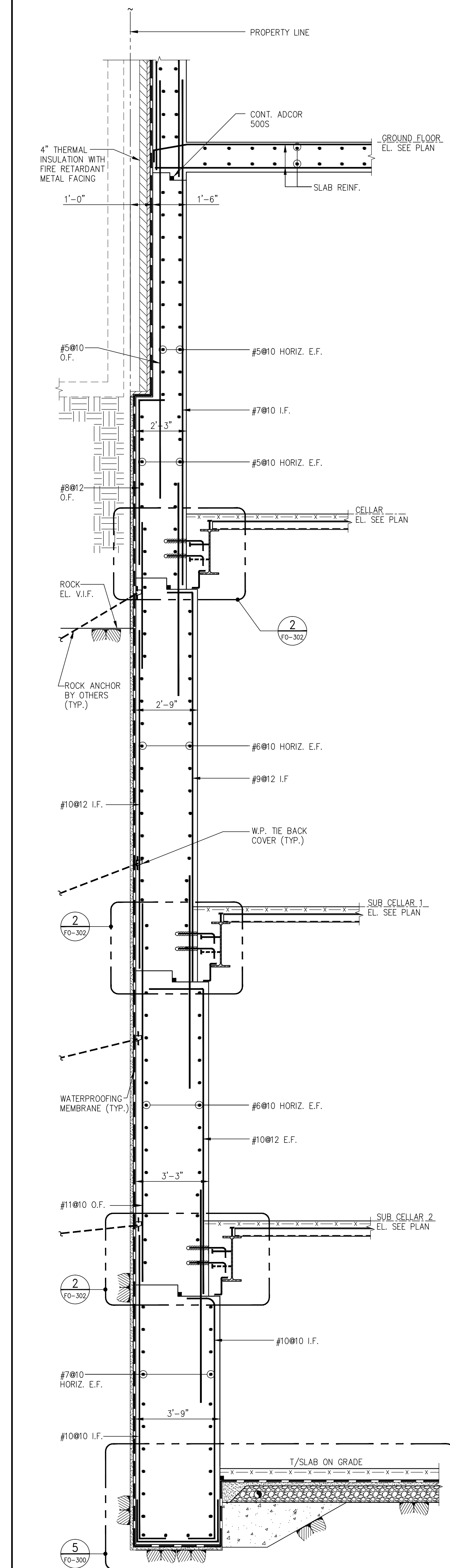
PROJECT: **217 WEST 57TH STREET  
NEW YORK, NY**

DRAWING TITLE: **TYPICAL SECTIONS 2**

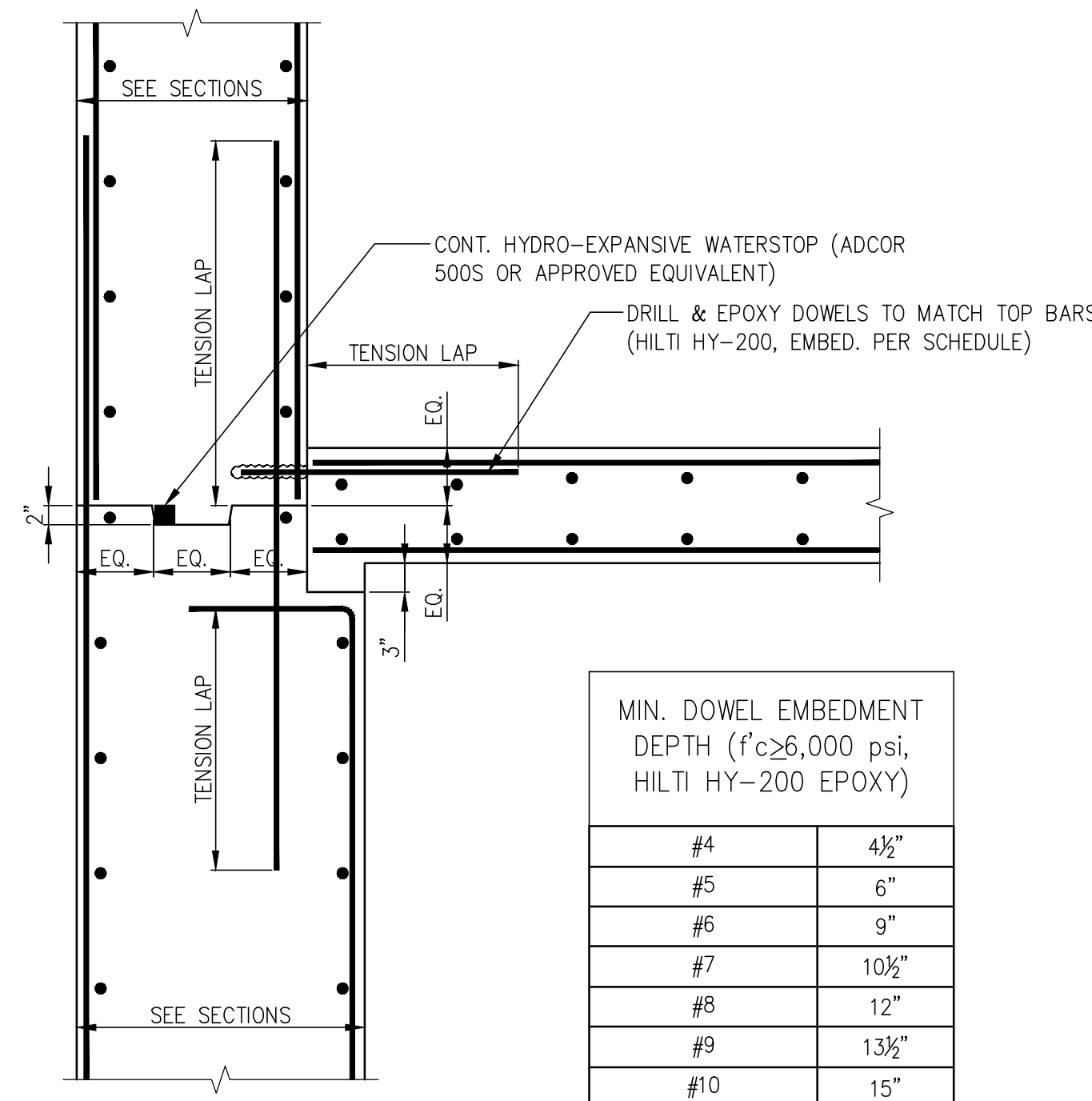
SEAL & SIGNATURE: **Damian Titus**  
DATE: 07/01/14  
PROJECT No: 2012185  
DRAWN: Author  
CHK: Checker  
SCALE: INDICATES  
DWG No: **FO-301.01**

DOB EMPLOYEE STAMP: **Damian Titus**  
DOB PAGE No: **FO-301.01**  
DOB 5-SCAN:



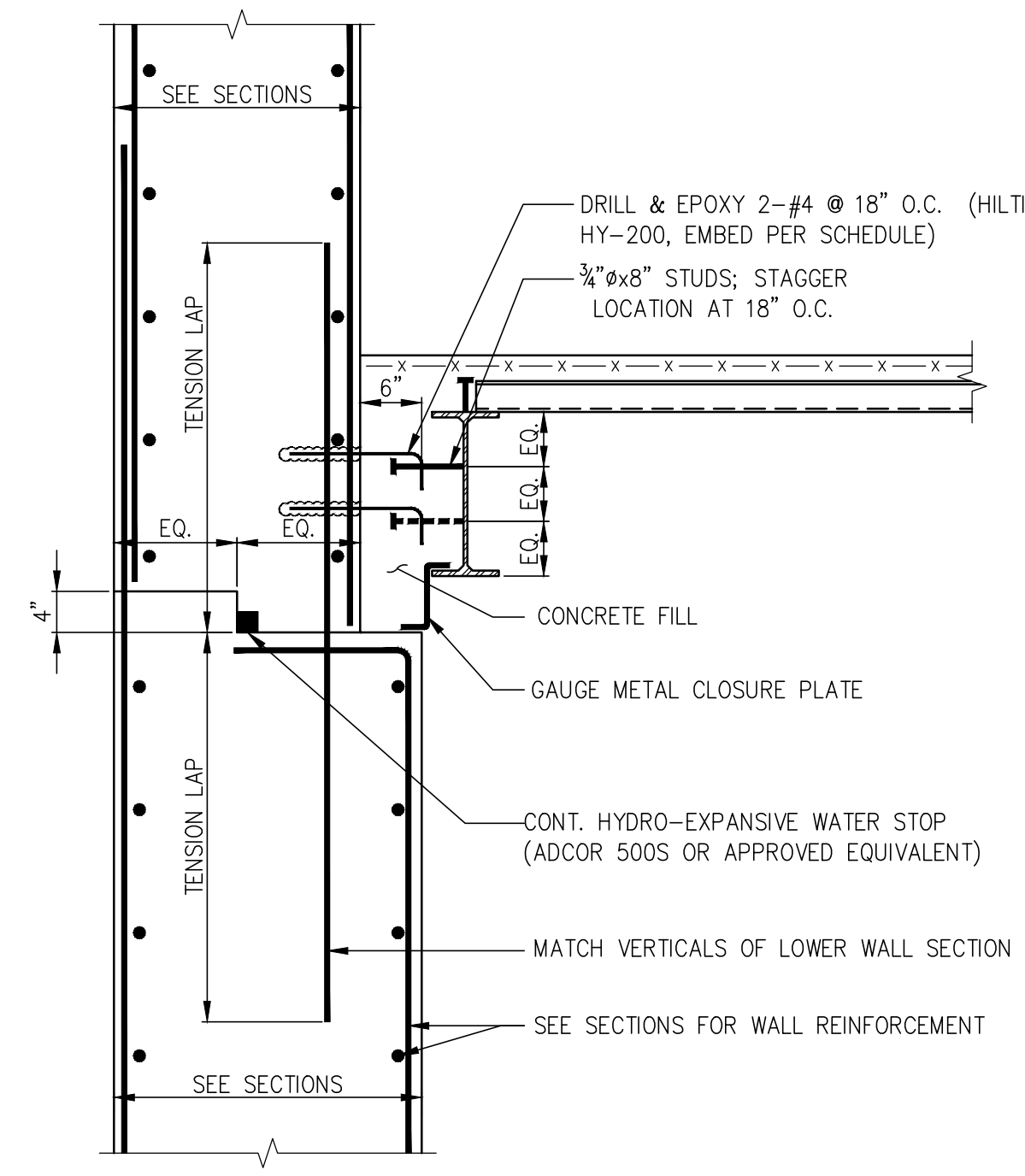


1 SECTION  
FO-302 SCALE: 1/4"=1'-0"



AT FLAT SLABS

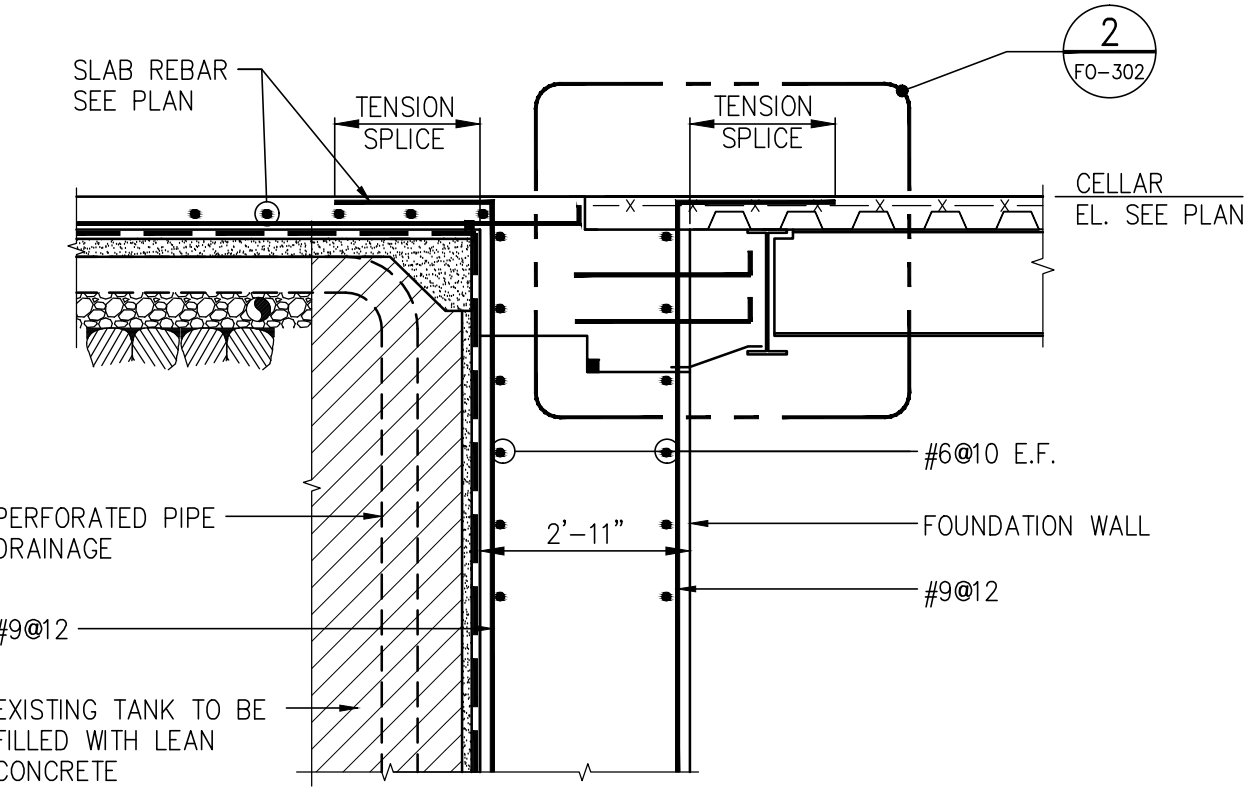
2 TYPICAL FOUNDATION WALL CONSTRUCTION JOINT DETAILS  
FO-302 SCALE: 1/4"=1'-0"



AT SLABS-ON-DECK

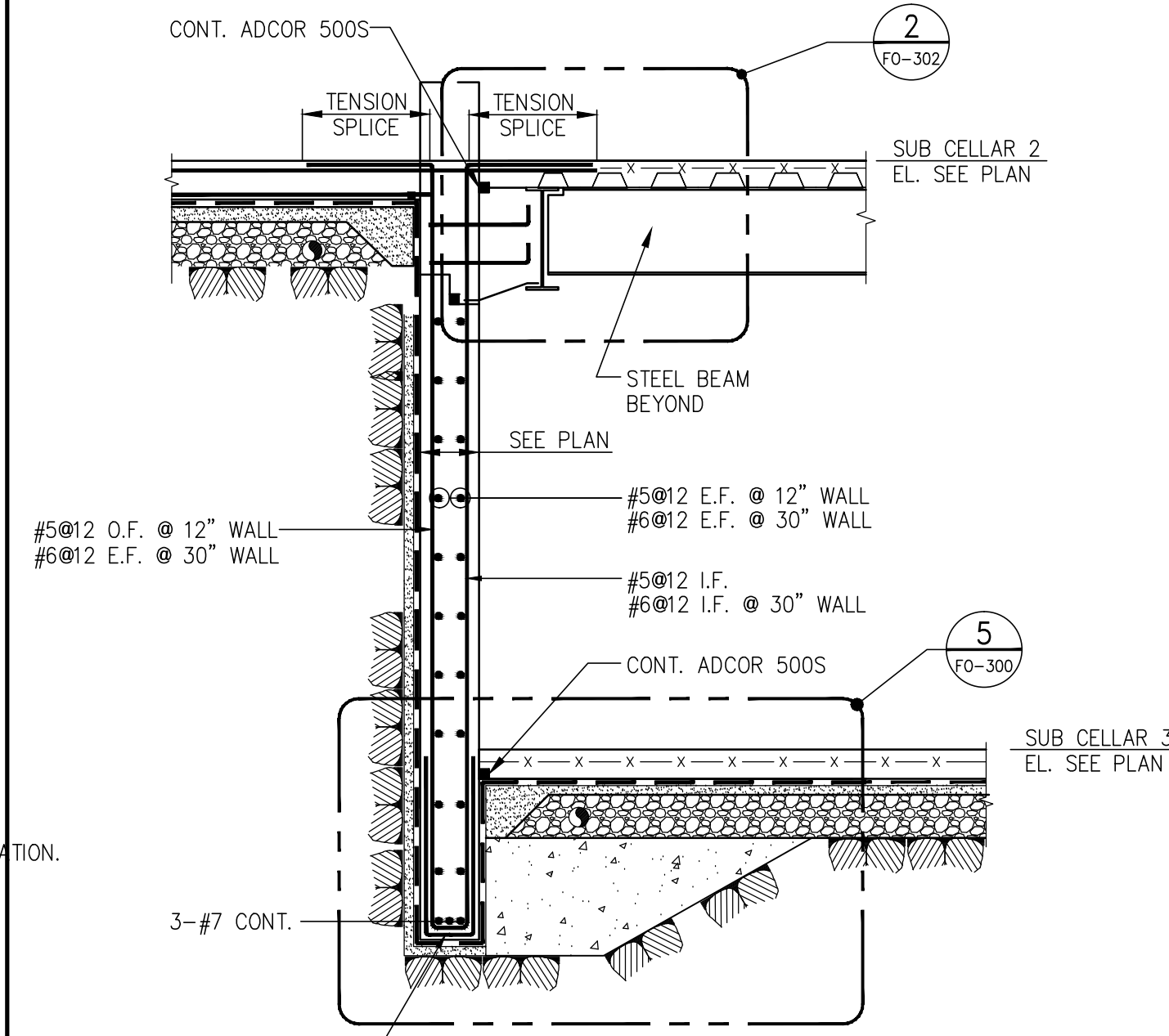
NOTE:  
(SEE 6/FO-300 FOR SECTION AT BEAM SUPPORT)

2 TYPICAL FOUNDATION WALL CONSTRUCTION JOINT DETAILS  
FO-302 SCALE: 1/4"=1'-0"



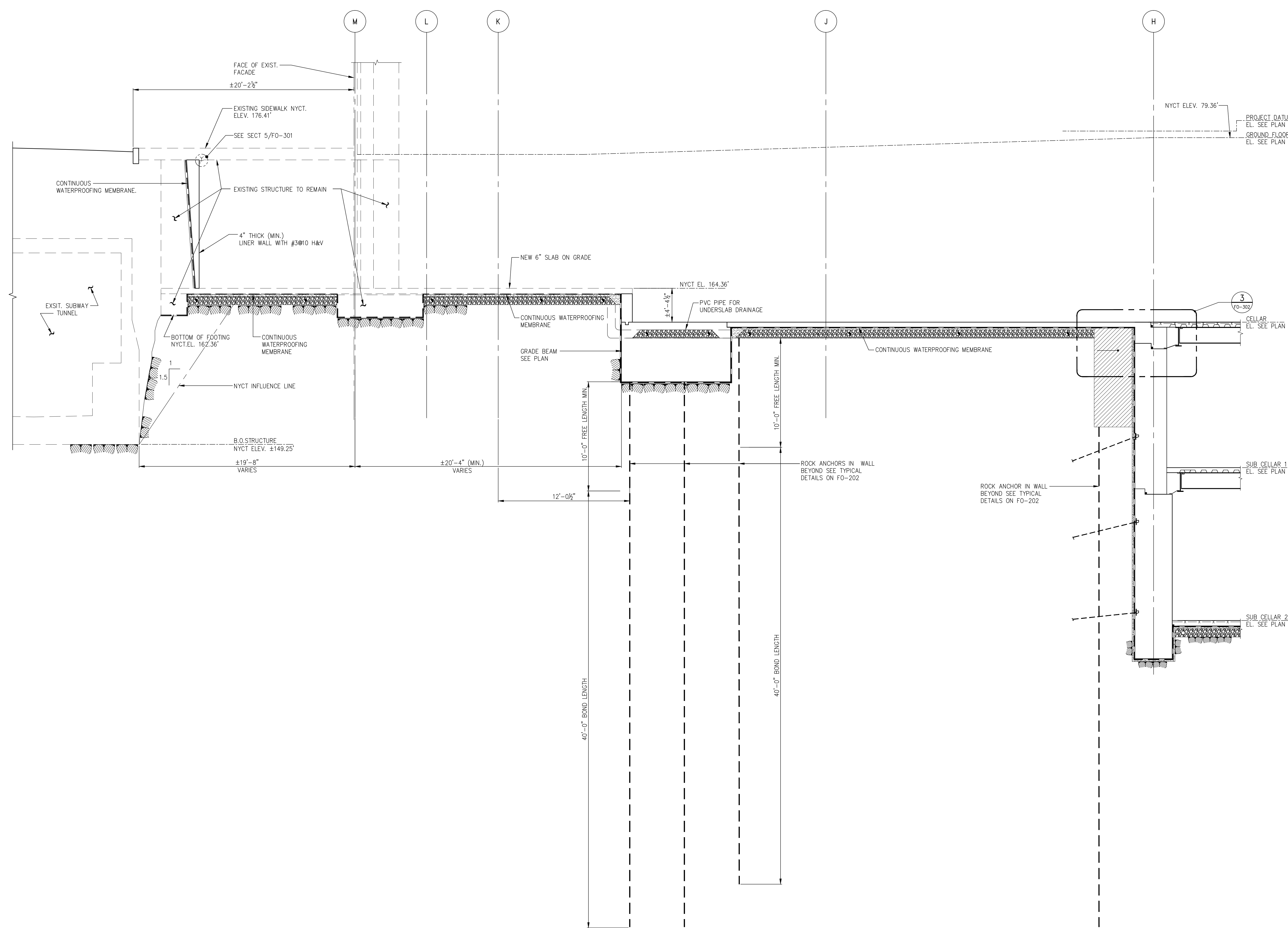
3 SECTION  
FO-302 SCALE: 1/4"=1'-0"

NOTES:  
1. REFER TO 1/FO-301 FOR BALANCE OF FOUNDATION WALL INFORMATION.  
2. COORDINATE PERFORATED PIPE DRAINAGE W/ ARCH. & MECH. DRAWINGS.

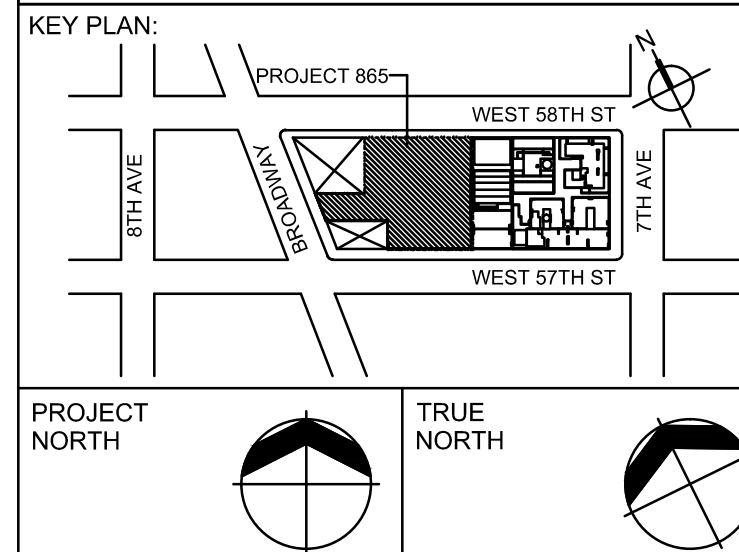


4 SECTION  
FO-302 SCALE: 1/4"=1'-0"

NOTES:  
1. REFER TO 1/FO-302 FOR BALANCE OF INFORMATION.



5 SECTION  
FO-302 SCALE: 1/4"=1'-0"



DEVELOPER: **Entek 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 W. Monroe Street Suite 2300 Chicago, IL 60603 USA  
TEL: 312 920 1888 FAX: 312 920 1775

ARCHITECT OF RECORD: **Base Building Shell & Core**  
**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 Cantor Seluk**  
228 East 45th Street, New York, NY 10017 USA  
TEL: 212-697-9888 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**  
619 River Drive Center 1 Elmwood Park, NJ 07407 USA  
TEL: 201-794-6900 FAX: 201-794-0368

CODE CONSULTANTS: **Construction Consulting Associates**  
100 Church Street New York, NY 1000 USA  
TEL: 212-385-1818 FAX: 212-385-1911

AVIT/SECURITY CONSULTANTS: **The Clarent Group, LLC**  
630 9th Avenue New York, NY 10036 USA  
TEL: 212-686-5840 FAX: 212-686-2180

INTERIOR DESIGNER: **Rotter Studio Architecture & Design Studio, NY, PLLC**  
298 5th Avenue, 7th Floor New York, NY 10001 USA  
TEL: 212-620-2801 FAX: 212-620-2804

LANDSCAPE ARCHITECT: **HM White**  
107 Grand Street, 6th Floor New York, NY 10013 USA  
TEL: 212-688-8411 FAX: 212-941-0422

LIGHTING DESIGNER: **Clins Bettridge Bernstein**  
116 East 27th Street, 4th Floor New York, NY 10016 USA  
TEL: 212-741-3200 FAX: 212-741-3112

FAÇADE MAINTENANCE CONSULTANT: **Entek Engineering, LLC**  
166 Ames Street Hackensack, NJ 07601 USA  
TEL: 201-820-2801 FAX: 201-820-2804

POOL CONSULTANT: **Integrated Aquatics Engineering**  
75 Shewell Avenue Doylestown, PA 18001 USA  
TEL: 215-230-8623 FAX: 215-230-8626

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	MTA SUBMISSION	05-01-2014
6	STEEL BID PACKAGE	05-22-2014
7	FOUNDATION 80% CD	05-22-2014
8	SUPERSTRUCTURE CONCRETE BID	06-02-2014
9	DOB FILING SET	06-17-2014
10	FOUNDATION 90% CD	07-01-2014

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:

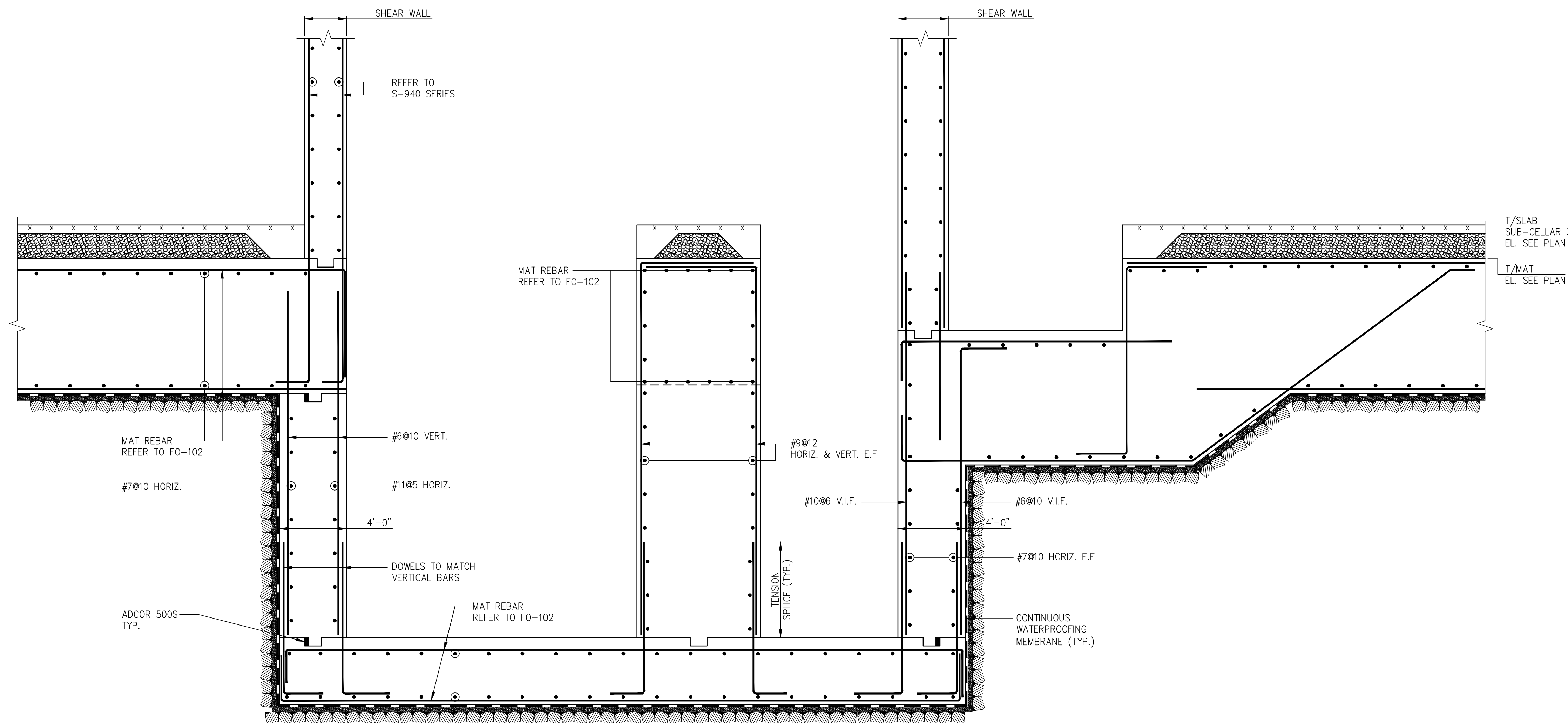
TYPICAL SECTIONS 3

SEAL & SIGNATURE: DATE: 07/01/14  
PROJECT No: 2012185  
DRAWN: Author REV: 10  
CHK: Checker  
SCALE: INDICATES  
DWG No: **FO-302.01**

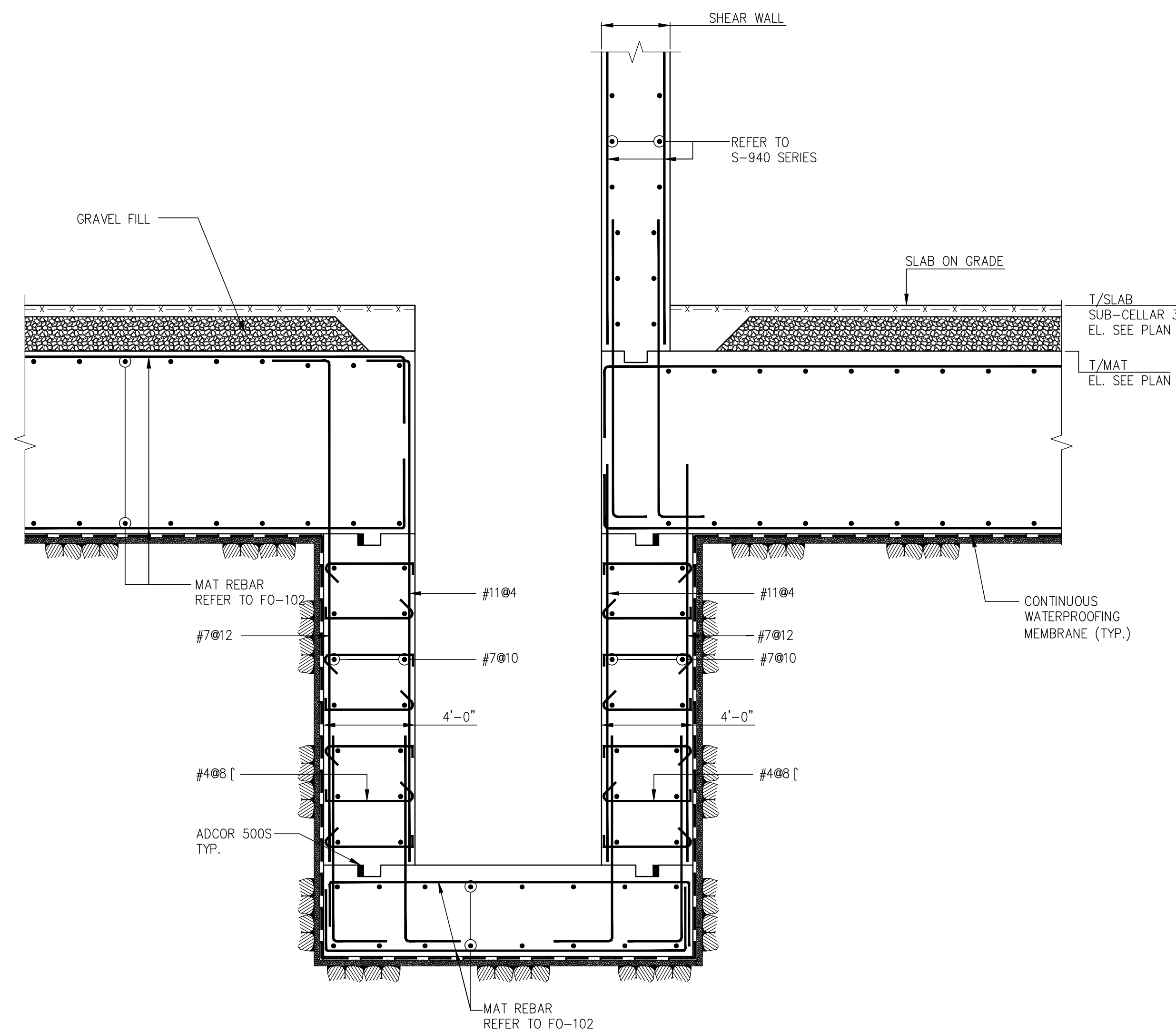
DOB EMPLOYEE STAMP: DOB PAGE No: DOB 5-SCAN:

**Damian Titus**  
Buildings  
APPROVED  
Under Directive of § 215  
AMENDED APPROPRIATION  
Date: 07/15/2014  
NYC Development Hub

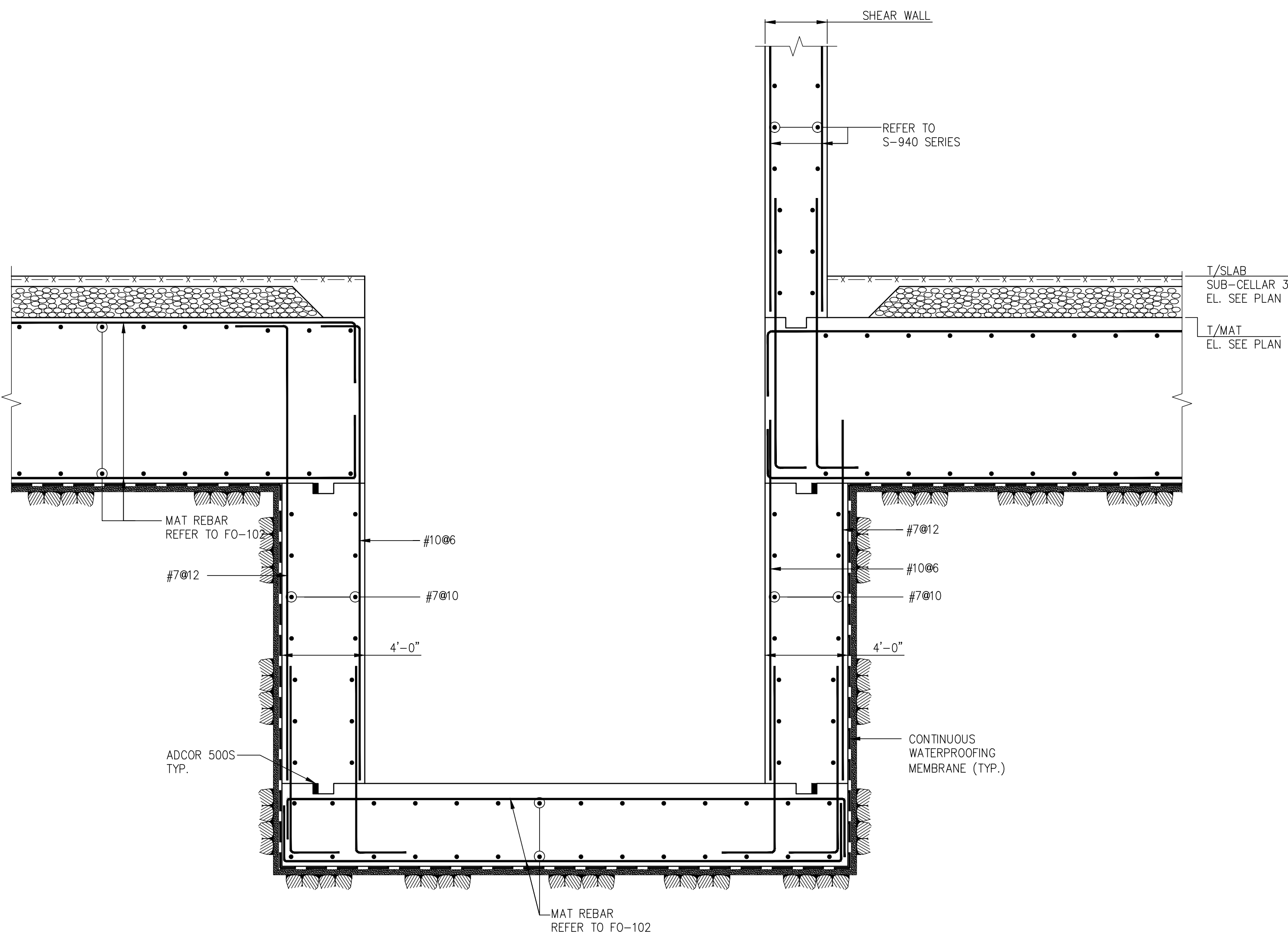




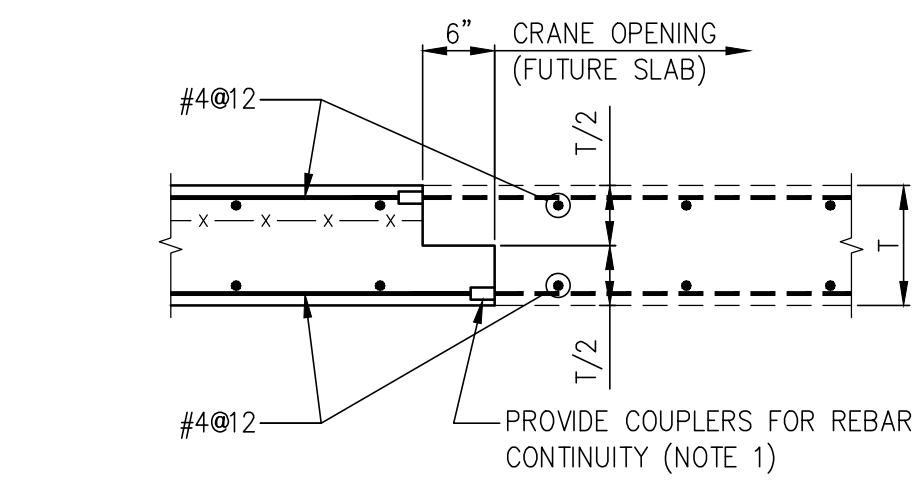
1 SECTION @ ELEVATOR PIT  
SCALE: 1/4"=1'-0"



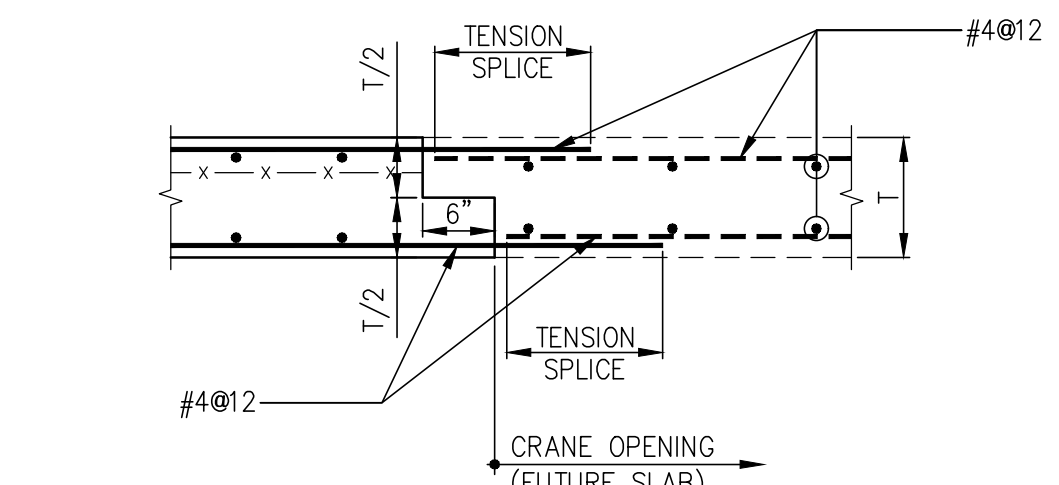
2 SECTION @ ELEVATOR PIT  
SCALE: 1/4"=1'-0"



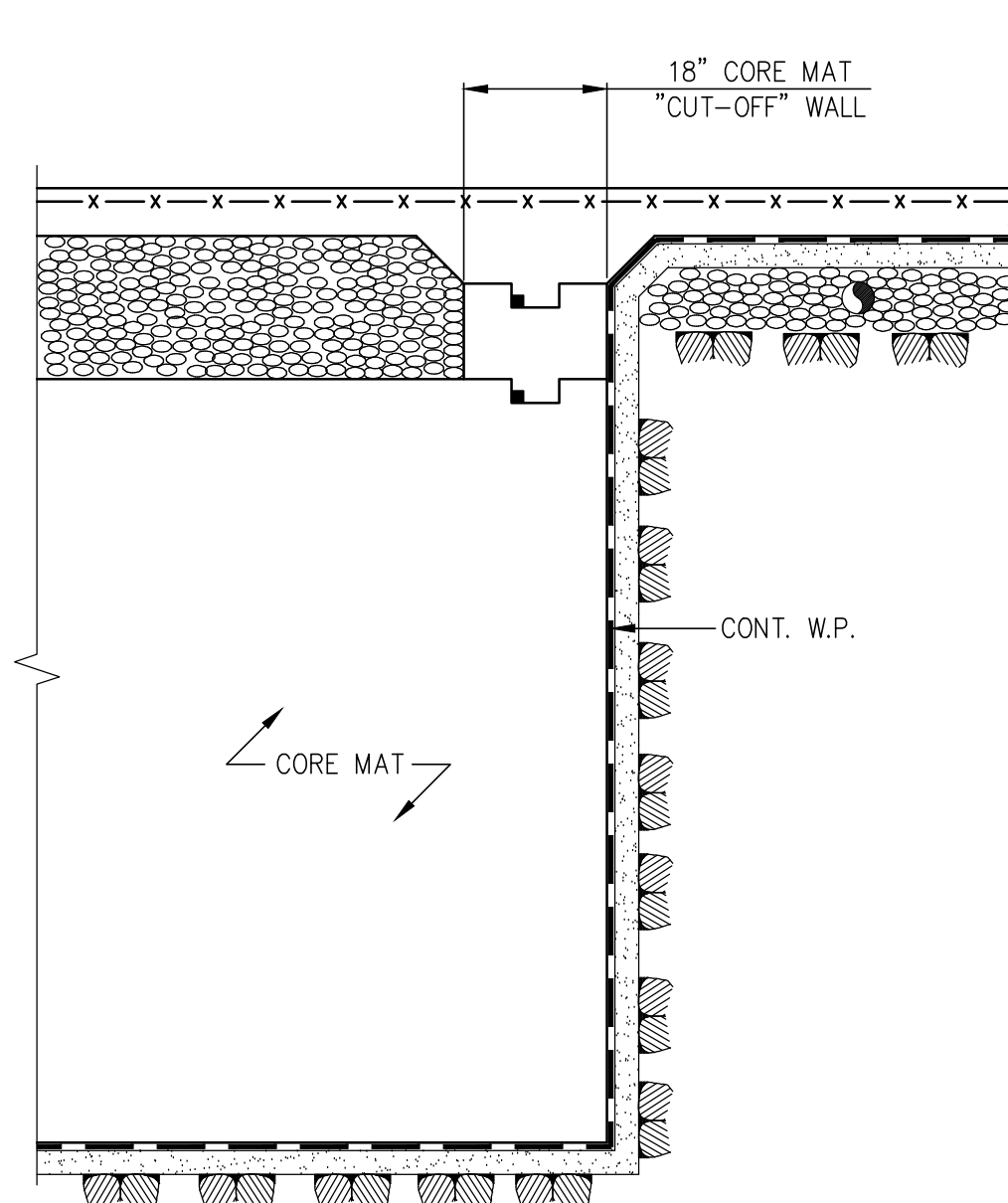
3 SECTION @ ELEVATOR PIT  
SCALE: 1/4"=1'-0"



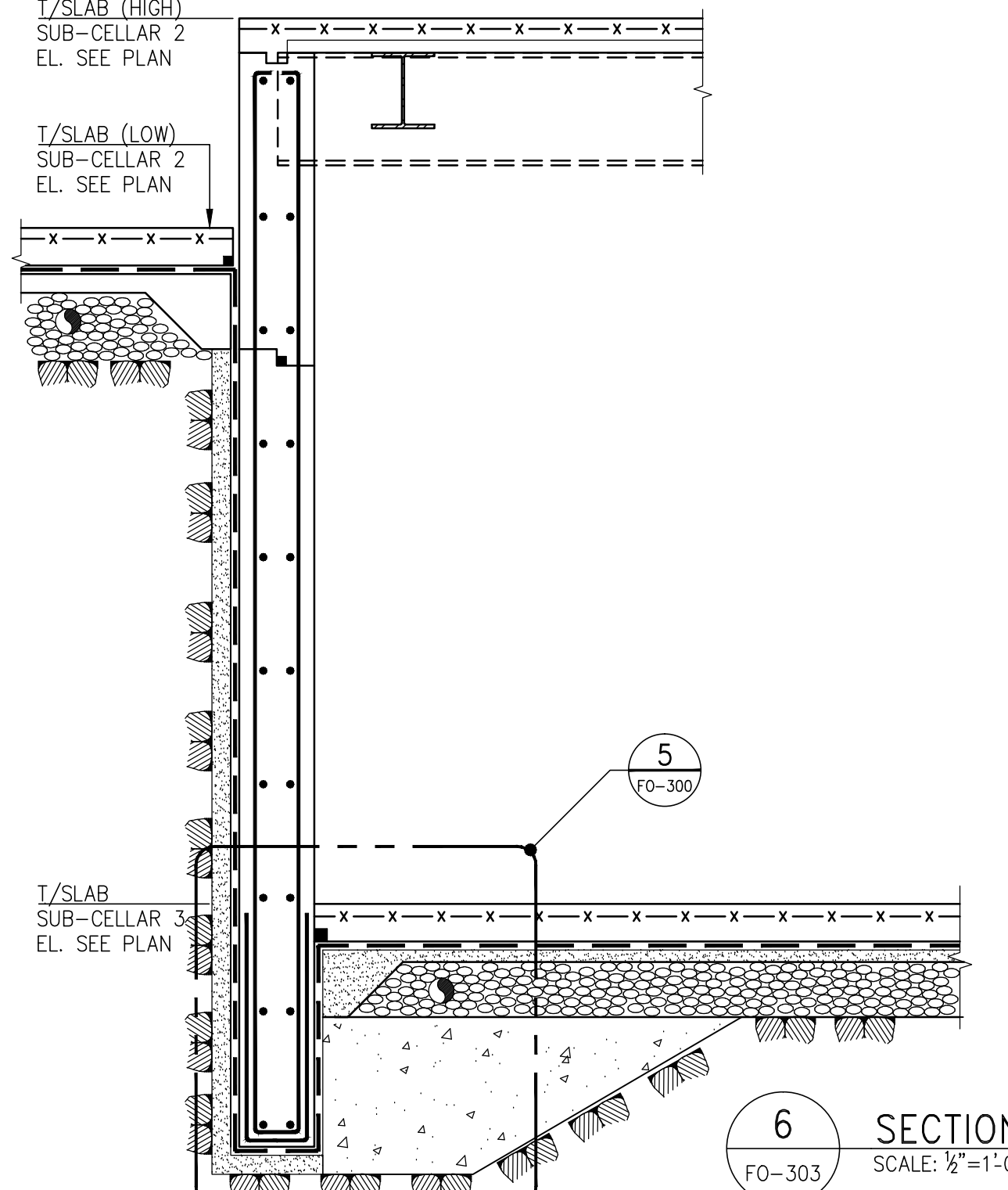
4 CRANE OPENING DETAIL  
SCALE: 1/4"=1'-0"



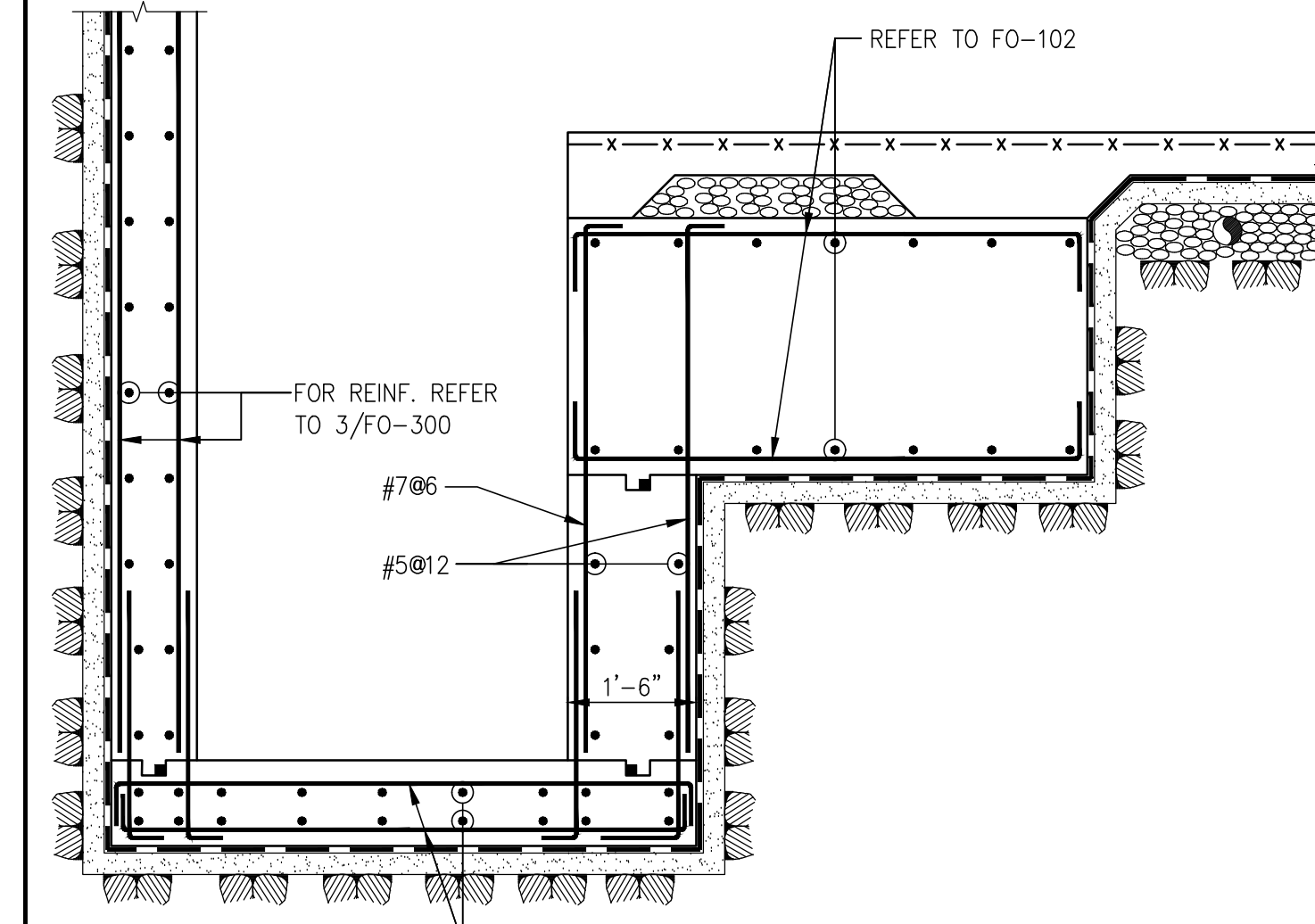
4A CRANE OPENING DETAIL (ALTERNATE)  
SCALE: 1/4"=1'-0"



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

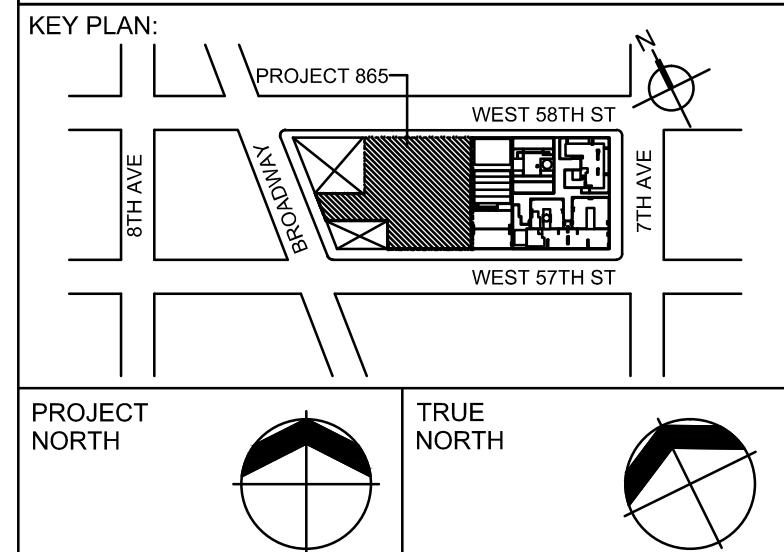


6 SECTION  
SCALE: 1/4"=1'-0"



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

NOTES:  
1. FOR BALANCE OF INFORMATION REFER TO FO-100, FO-102 & 3/FO-300



DEVELOPER: **Entek 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 W. Monroe Street Suite 2300 Chicago, IL 60603 USA  
TEL: 312 620 1888 FAX: 312 620 1775

ARCHITECT OF RECORD: **Base Building Shell & Core**  
**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 Cantor Seluk**  
228 EAST 45th Street, New York, NY 10017 USA  
TEL: 212-697-9888 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**  
619 River Drive Center 1 Elmsford Park, NJ 07407 USA  
TEL: 201.794.6900 FAX: 201.794.0368

CODE CONSULTANTS: **Construction Consulting Associates**  
100 Church Street New York, NY 1000 USA  
TEL: 212-385-1818 FAX: 212-385-1911

AVIT/SECURITY CONSULTANTS: **The Client Group, LLC**  
630 9th Avenue New York, NY 10036 USA  
TEL: 212-686-5840 FAX: 212-686-2180

INTERIOR DESIGNER: **Rotter Studio Architecture & Design Studio, NY, PLLC**  
298 5th Avenue, 7th Floor New York, NY 10001 USA  
TEL: 646-698-7000

LANDSCAPE ARCHITECT: **HM White**  
107 Grand Street, 6th Floor New York, NY 10013 USA  
TEL: 212-688-8411 FAX: 212-941-0422

LIGHTING DESIGNER: **Clive Bettridge Bernstein**  
116 East 27th Street, 4th Floor New York, NY 10016 USA  
TEL: 212-741-3200 FAX: 212-741-3112

FACADE MAINTENANCE CONSULTANT: **Entek Engineering, LLC**  
166 Ames Street Hackensack, NJ 07601 USA  
TEL: 201-820-2801 FAX: 201-820-2804

POOL CONSULTANT: **Integrated Aquatics Engineering**  
75 Shawell Avenue Doylestown, PA 18901 USA  
TEL: 215-230-8623 FAX: 215-230-8626

No.	DESCRIPTION:	DATE:
1	STEEL BID PACKAGE	05-22-2014
2	FOUNDATION 80% CD	05-22-2014
3	SUPERSTRUCTURE CONCRETE BID	06-03-2014
4	DOB FILING SET	06-17-2014
5	FOUNDATION 90% CD	07-01-2014

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: **TYPICAL SECTIONS 4**

SEAL & SIGNATURE: **STATE OF NEW YORK  
PROFESSIONAL ENGINEER  
Damian Titus**

DATE: 07/01/14  
PROJECT No: 2012185  
DRAWN: Author  
CHK: Checker  
SCALE: INDICATES  
DWG No: **FO-303.01**

DOB PAGE No: DOB 5-SCAN:

**APPROVED**  
Under Directive of 9/25  
AMENDED APPLICATION  
Date: 07/15/2014  
**NYC Development Hub**