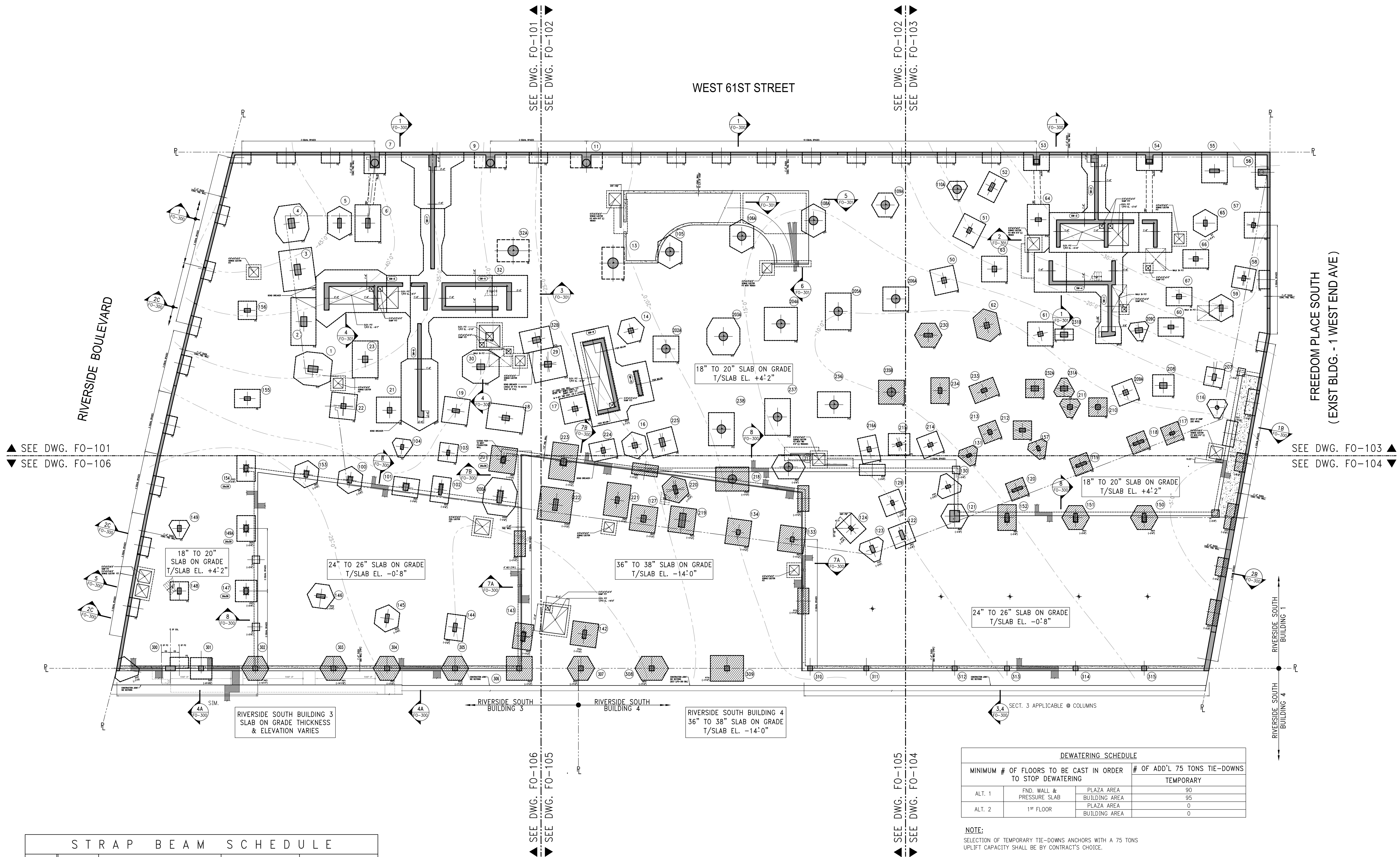
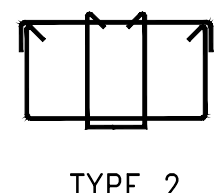


KEY PLAN



STRAP BEAM SCHEDULE						
BEAM MARK	SIZE (WxD)	REINFORCEMENT		STIRRUPS		REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TYPE	SIZE	
SB1	30x30	4-#11	8-#11 (2 LAYERS)	2	4	Ø 12
SB2	30x30	5-#11	10-#11 (2 LAYERS)	2	4	Ø 12
SB3	30x30	4-#11	8-#11 (2 LAYERS)	2	4	Ø 12



TYPE 2
STIRRUP TYPES
N.T.S.

1 OVERALL FOUNDATION PLAN
FO-100
SCALE: 1/16"=1'-0"

- NOTES:
1. P/PRESSURE SLAB ON GRADE. ELEVATION TO BE +4'2" U.O.N. THIS [] ON PLAN.
 2. P/PRESSURE SLAB TO BE 18" TO 20" THICK Ø L.P. U.O.N. THIS [] ON PLAN.
 3. REINFORCEMENT TO BE: #Ø12 TAB E.W. CONT. U.O.N. FOR 18" TO 20" SLAB
#Ø12 TAB E.W. CONT. U.O.N. FOR 24" TO 26" SLAB
#Ø12 TAB E.W. CONT. U.O.N. FOR 36" TO 38" SLAB
 4. TOP OF PILE CAP ELEV. TO BE +2'8" (1'-6" BELOW T.O.S. ELEV. AT LOW POINT) U.O.N. ON PLAN THIS [] ON PLAN.
 5. CENTERLINE OF PILE CAPS TO COINCIDE WITH CENTERLINES OF CONCRETE PIER, BUTTRESS, COLUMN OR WALLS ABOVE U.O.N. ON PLAN.
 6. TRENCH LOCATIONS FOR UNDERGROUND PLUMBING AND CONDUIT ARE PENDING FINAL MEP DESIGN, THEREFORE NOT REFLECTED IN THIS SET. SEE MEP DRAWINGS FOR ADDITIONAL INFO. UNDER NO CIRCUMSTANCES SHALL CONDUIT OR PLUMBING LINES RUN THROUGH THE MAT OR P/PRESSURE SLAB. REFER TO TYPICAL SECTION FOR UNDERGROUND PLUMBING LINES - TRENCH AT MAT FDN./P/PRESSURE SLAB AND TYPICAL SECTION FOR ELECTRICAL CONDUITS - HAUNCH AT MAT FDN./P/PRESSURE SLAB ON DRAWING FO-202 FOR ADDITIONAL INFO.
 7. FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND, SEE DRAWING FO-001.
 8. FOR SHEARWALL MAT DETAILS SEE DRAWINGS FO-110 & FO-111.
 9. FOR FOUNDATION TYPICAL DETAILS SEE FO-200 SERIES DRAWINGS.
 10. FOR FOUNDATION SECTIONS SEE FO-300 SERIES DRAWINGS.
 11. FOR LINK BEAM SCHEDULE AND SHEARWALL DETAILS SEE S-940 SERIES DRAWINGS.
 12. FOR COLUMN SIZES, REINFORCEMENT AND DETAILS SEE S-950 SERIES DRAWINGS.
 13. 100 YEARS FLOOD LEVEL, CONSIDERED AT FOUNDATION DESIGN, IS ASSUMED TO BE AT EL. 12.00 FEET.

DEWATERING SCHEDULE			
MINIMUM # OF FLOORS TO BE CAST IN ORDER TO STOP DEWATERING		# OF ADD'L 75 TONS TIE-DOWNS TO STOP DEWATERING	
		PLAZA AREA	TEMPORARY
ALT. 1	FND. WALL & P/PRESSURE SLAB	95	90
ALT. 2	1 ST FLOOR	0	0

NOTE:
SELECTION OF TEMPORARY TIE-DOWNS ANCHORS WITH A 75 TONS UPLIFT CAPACITY SHALL BE BY CONTRACT'S CHOICE.

NOTE FOR:

- PARKING FLOORS, RAMPS, DRIVEWAYS EXPOSED TOPPING, SIDE WALKS - ALL DIRECTLY EXPOSED TO CARS AND/OR PEDESTRIAN TRAFFIC & CONCRETE TANKS. CAST IN PLACE CONCRETE TO HAVE 2" CLEAR COVER AND BE:
 - f'c 6000 psi AT 28 DAYS TOP SLAB REBAR, CONCRETE AND MASONRY SHEAR WALL DOUELS SHALL BE EPOXY COATED. DAMAGED PARTS OR REBAR SHALL BE PAINTED WITH DOUBLE COAT OF EPOXY PAINT.
 - DCL (CALCIUM NITRITE) CORROSION INHIBITOR, (4.0 GAL/YD3)
 - WATER/CEMENT RATIO NOT TO EXCEED 0.36
 - USE OF SUPER PLASTICIZER TO ACHIEVE THE W/C RATIO.
 - CONCRETE TO CONTAIN SILICA FUME (5% OF TOTAL CEMENT) OR SLAG (40%) 2.0 lbs/YD3 FIBER MESH.
 - ENTRAINED AIR AT 6% ±1%
 - THE CURING SHALL BE ONLY MOIST TYPE. NO CURING COMPOUND ACCEPTABLE.
 - ALTHOUGH PROTECTIVE MEASURES WERE INCORPORATED IN THE DESIGN OF THE EXPOSED SLABS AND WALLS, THESE AREAS MUST BE CAREFULLY MAINTAINED IN ORDER TO PREVENT EARLY DEGRADATION.
 - SLOPE TOP OF THE SLAB TO DRAINS IF REQUIRED BY ARCHITECTURAL DRAWINGS.
 - APPLY PENETRATING ANTISPALLING SEALER AND TRAFFIC DECK COATING SYSTEM.
- REFER TO SPECIFICATIONS FOR DETAILS, TRAFFIC COATING SYSTEM SHALL BE MAINTAINED AND PERIODICALLY REPLACED PER MANUFACTURER SPECIFICATIONS.

01/11/2015	REVISED FOUNDATION FOR ASSOCIATES P.C.
01/07/2015	FOUNDATION FOR CONSTRUCTION / FOR SUBMISSION
12/11/2014	OWNER REQUESTED FND. REVISIONS
10/21/2014	REVISED FOUNDATION SET
03/06/2015	DOB SUBMISSION
03/02/2015	FOUNDATION BID SET
01/23/2015	100% SCHEMATIC DESIGN

OWNER:
GID DEVELOPMENT
125 HIGH STREET
HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110

PROJECT:
RIVERSIDE CENTER BUILDING 1
NEW YORK, NY

EXECUTIVE ARCHITECT:
GHWA
Goldstein, Hill & West Architects, LLP
11 Broadway, Suite 1700
New York, NY 10004
Tel (212) 213-8007 Fax (212) 686-1754

DESIGN ARCHITECT:
KPF
KOHN PEDERSEN FOX
11 West 42nd Street
New York, NY 10036
Tel: (212) 977-6500 Fax: (212) 956-2526

STRUCTURAL ENGINEER:
WSP BUILDING STRUCTURES
CONSULTING ENGINEERS
228 East 45th St, 3rd Floor
New York, NY 10017
Tel: (212) 687-9888 Fax: (646) 487-5501

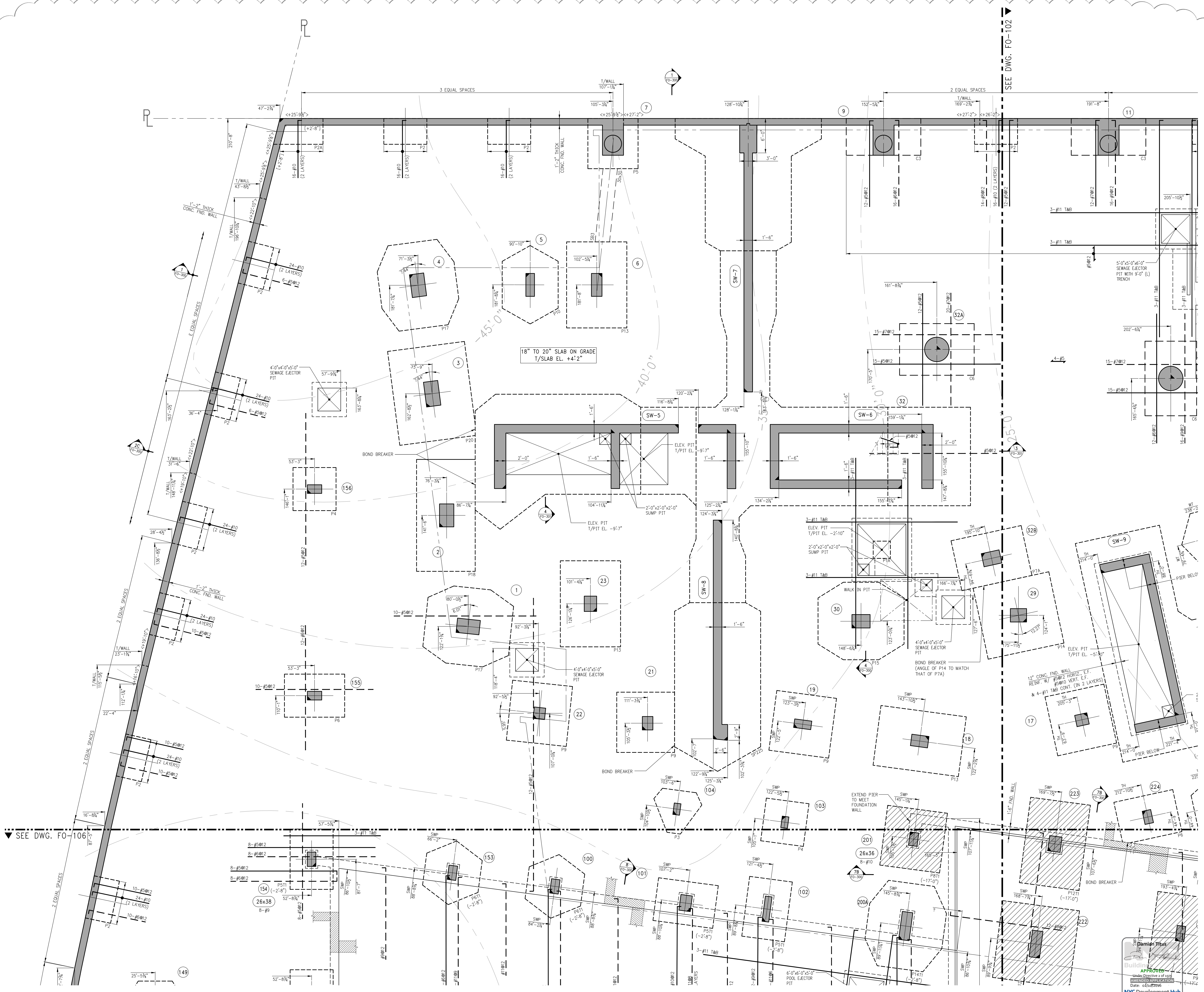
MEP/FP ENGINEER:
WSP BUILDING SYSTEMS
CONSULTING ENGINEERS
512 Seventh Avenue
New York, NY 10018
Tel: (212) 532-9600

DOB STAMPS & SIGNATURES

OVERALL
FOUNDATION PLAN

SEAL & SIGNATURE:

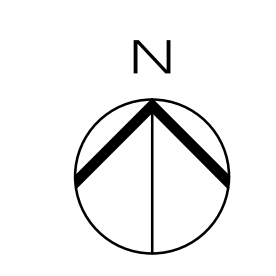
DATE: 01/23/2015
PROJECT #: 1490102
SCALE: 1/16"=1'-0"
FO-100.01
DWG NO.
Sheet 02 of 23



1 FOUNDATION PLAN - PART 1
FO-101
SCALE: 3/16"=1'-0"

NOTES:
1. FOR BALANCE OF INFORMATION SEE FIRST CORRESPONDING FRAMING PLAN.

KEY PLAN



01/11/2015	REVISED FOUNDATION FOR CONSTRUCTION FOR SUBMISSION
01/07/2015	FOUNDATION FOR CONSTRUCTION / FOR SUBMISSION
12/11/2015	OWNER REQUESTED FND. REVISIONS
10/21/2015	REVISED FOUNDATION SET
03/06/2015	DOB SUBMISSION
03/02/2015	FOUNDATION BID SET

OWNER: GID DEVELOPMENT
125 HIGH STREET
HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110

PROJECT: RIVERSIDE CENTER BUILDING 1
NEW YORK, NY

EXECUTIVE ARCHITECT: GHWA
Goldstein, Hill & West Architects, LLP
11 Broadway, Suite 1700
New York, NY 10004
Tel (212) 213-8007 Fax (212) 686-1754

DESIGN ARCHITECT: KPF
KOHN PEDERSEN FOX
ASSOCIATES P.C.
11 West 42nd Street
New York, NY 10036
Tel: (212) 977-6500 Fax: (212) 956-2526

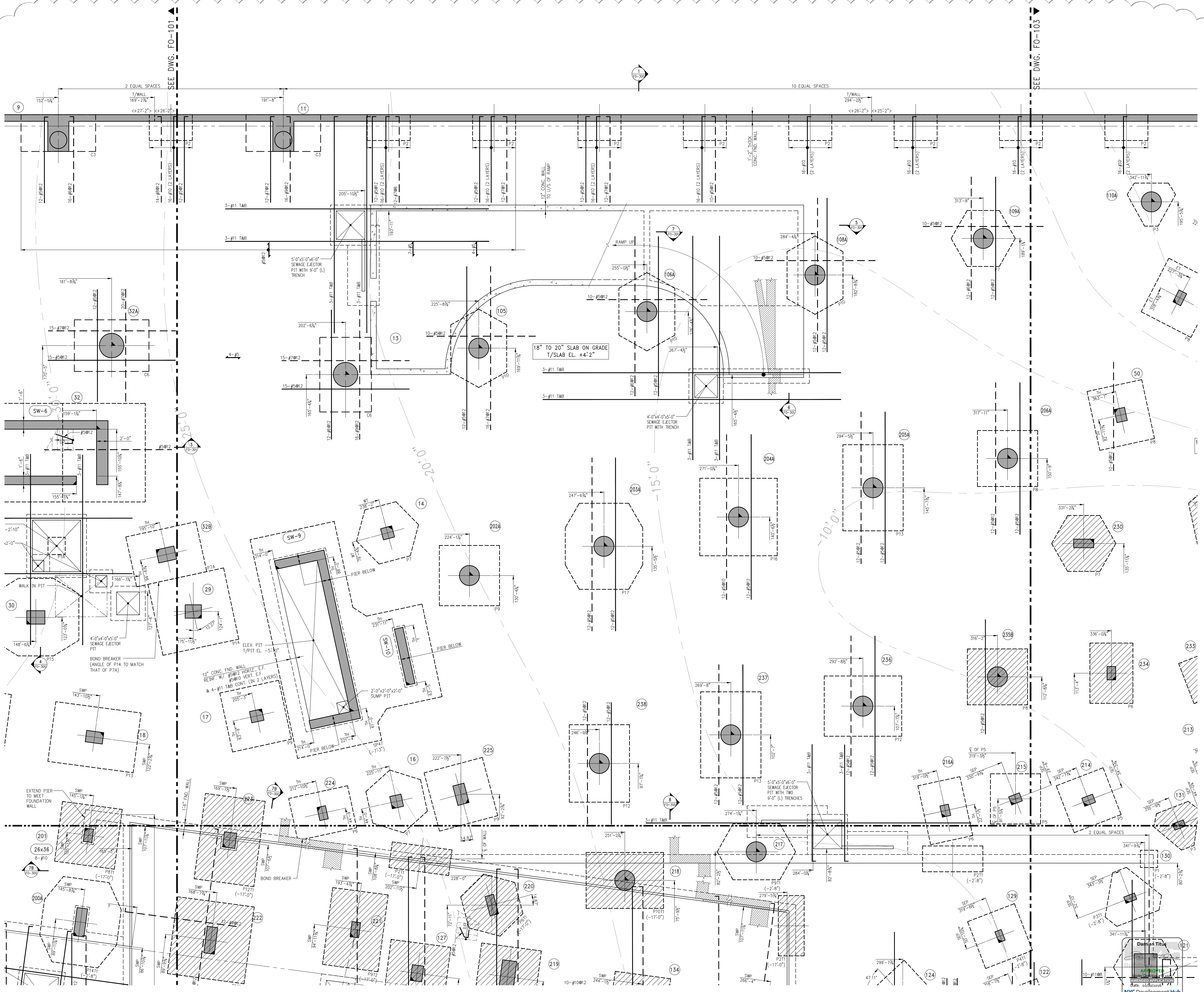
STRUCTURAL ENGINEER: WSP BUILDING STRUCTURES
CONSULTING ENGINEERS
228 East 45th St, 3rd Floor
New York, NY 10017
Tel: (212) 687-9888 Fax: (646) 487-5501

MEP/FE ENGINEER: WSP BUILDING SYSTEMS
CONSULTING ENGINEERS
512 Seventh Avenue
New York, NY 10018
Tel: (212) 532-9600

DOB STAMPS & SIGNATURES

FOUNDATION PLAN
PART 1

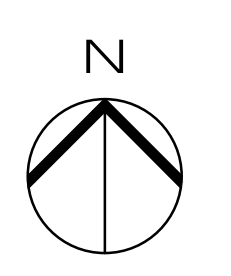
SEAL & SIGNATURE: [Signature] DATE: 03/02/2015
PROJECT #: 1490102
SCALE: 3/16"=1'-0"
FO-101.01
DWG NO.
Sheet 03 of 23



1 FOUNDATION PLAN - PART 2
FO-102
SCALE: 3/16"=1'-0"

NOTES:
1. FOR BALANCE OF INFORMATION SEE FIRST CORRESPONDING FRAMING PLAN.

KEY PLAN



01/11/2014	REVISED FOUNDATION FOR CONSTRUCTION FOR SUBMISSION
01/07/2014	FOUNDATION FOR CONSTRUCTION / DOB SUBMISSION
10/11/2015	OWNER REQUESTED FND. REVISIONS
10/21/2015	REVISED FOUNDATION SET
03/06/2015	DOB SUBMISSION
03/02/2015	FOUNDATION BID SET
Number:	Date:
Revised:	Revised:

OWNER:
GID DEVELOPMENT
125 HIGH STREET
HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110

PROJECT:
RIVERSIDE CENTER BUILDING 1
NEW YORK, NY

EXECUTIVE ARCHITECT:

GHWA
Goldstein, Hill & West Architects, LLP
11 Broadway, Suite 1700
New York, NY 10004
Tel (212) 213-8007 Fax (212) 686-1754

DESIGN ARCHITECT:

KPF
Kohn Pedersen Fox
11 West 42nd Street
New York, NY 10036
Tel: (212) 977-6500 Fax: (212) 956-2526

STRUCTURAL ENGINEER:

WSP BUILDING STRUCTURES
CONSULTING ENGINEERS
228 East 45th St, 3rd Floor
New York, NY 10017
Tel: (212) 687-9888 Fax: (646) 487-5501

MEP/ELECTRICAL ENGINEER:

WSP BUILDING SYSTEMS
CONSULTING ENGINEERS
512 Seventh Avenue
New York, NY 10018
Tel: (212) 532-9600

DOB STAMPS & SIGNATURES:

DWG TITLE:
FOUNDATION PLAN
PART 2

SEAL & SIGNATURE: DATE: 03/02/2015
PROJECT # 1480102

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

FO-102.01

KEY PLAN



DATE	REVISION
01/11/2014	REVISED FOUNDATION FOR CONSTRUCTION FOR SUBMISSION
01/07/2014	FOUNDATION FOR CONSTRUCTION / DOB SUBMISSION
12/11/2013	OWNER REQUESTED FND. REVISIONS
10/21/2013	REVISED FOUNDATION SET
03/06/2013	DOB SUBMISSION
03/02/2013	FOUNDATION BID SET
NUTR:	Date: Revision:

OWNER: GID DEVELOPMENT
125 HIGH STREET
HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110

PROJECT: RIVERSIDE CENTER BUILDING 1
NEW YORK, NY

EXECUTIVE ARCHITECT:
GHWA
Goldstein, Hill & West Architects, LLP
11 Broadway, Suite 1700
New York, NY 10004
Tel (212) 213-8007 Fax (212) 686-1754

DESIGN ARCHITECT:
KPF
Kohn Pedersen Fox
11 West 42nd Street
New York, NY 10036
Tel: (212) 977-6500 Fax: (212) 956-2526

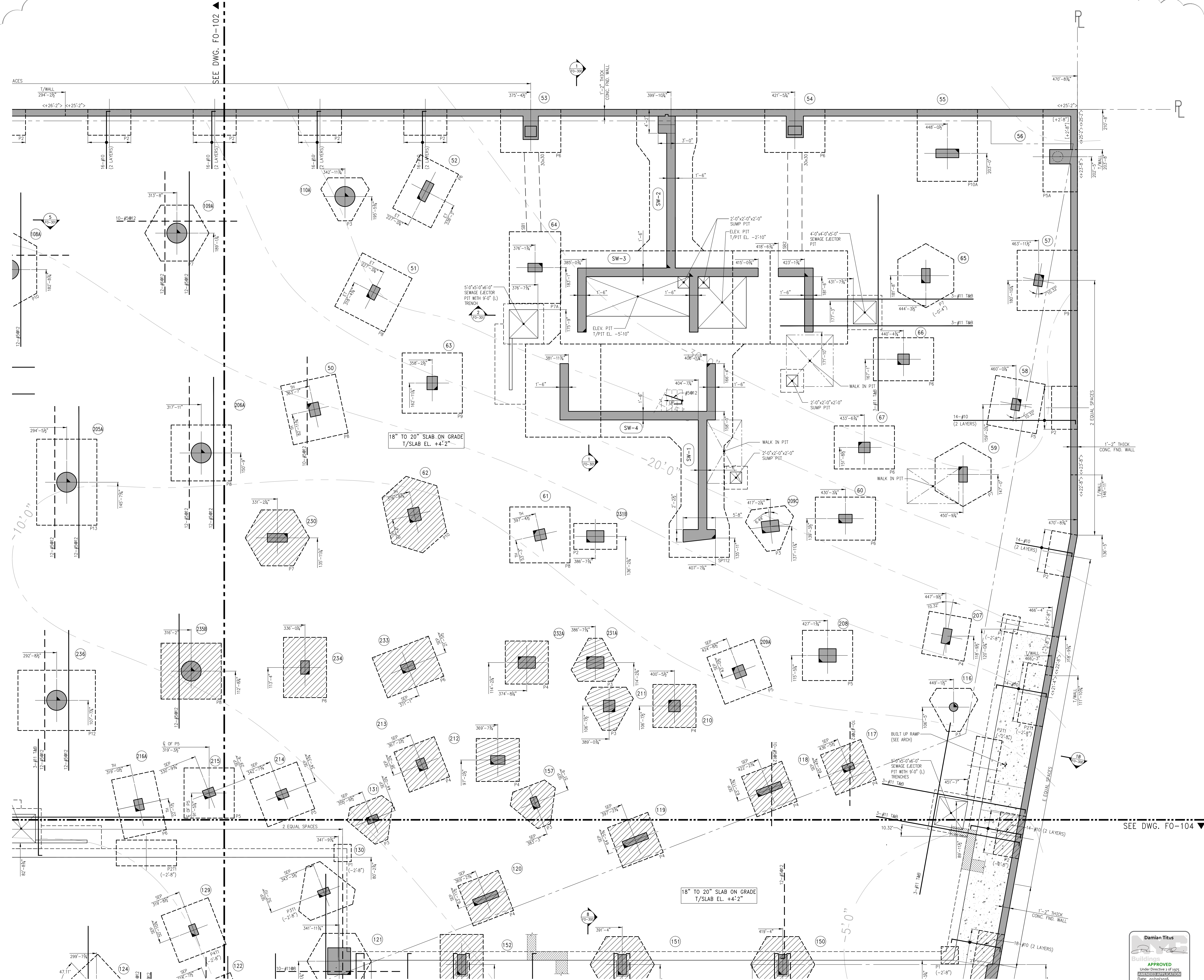
STRUCTURAL ENGINEER:
WSP BUILDING STRUCTURES
CONSULTING ENGINEERS
228 East 45th St, 3rd Floor
New York, NY 10017
Tel: (212) 687-9888 Fax: (646) 487-5501

MEP/ELECTRICAL ENGINEER:
WSP BUILDING SYSTEMS
CONSULTING ENGINEERS
512 Seventh Avenue
New York, NY 10018
Tel: (212) 532-9600

DOB STAMPS & SIGNATURES:

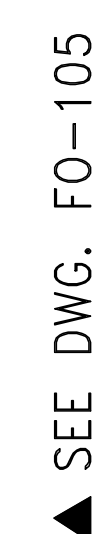
FOUNDATION PLAN
PART 3

SEAL & SIGNATURE: DATE: 03/02/2015
PROJECT # 1480102
SCALE: 3/16"=1'-0"
FO-103.01
Sheet 03 of 23



1 FOUNDATION PLAN - PART 3
FO-103 SCALE: 3/16"=1'-0"

NOTES:
1. FOR BALANCE OF INFORMATION SEE FIRST CORRESPONDING FRAMING PLAN.



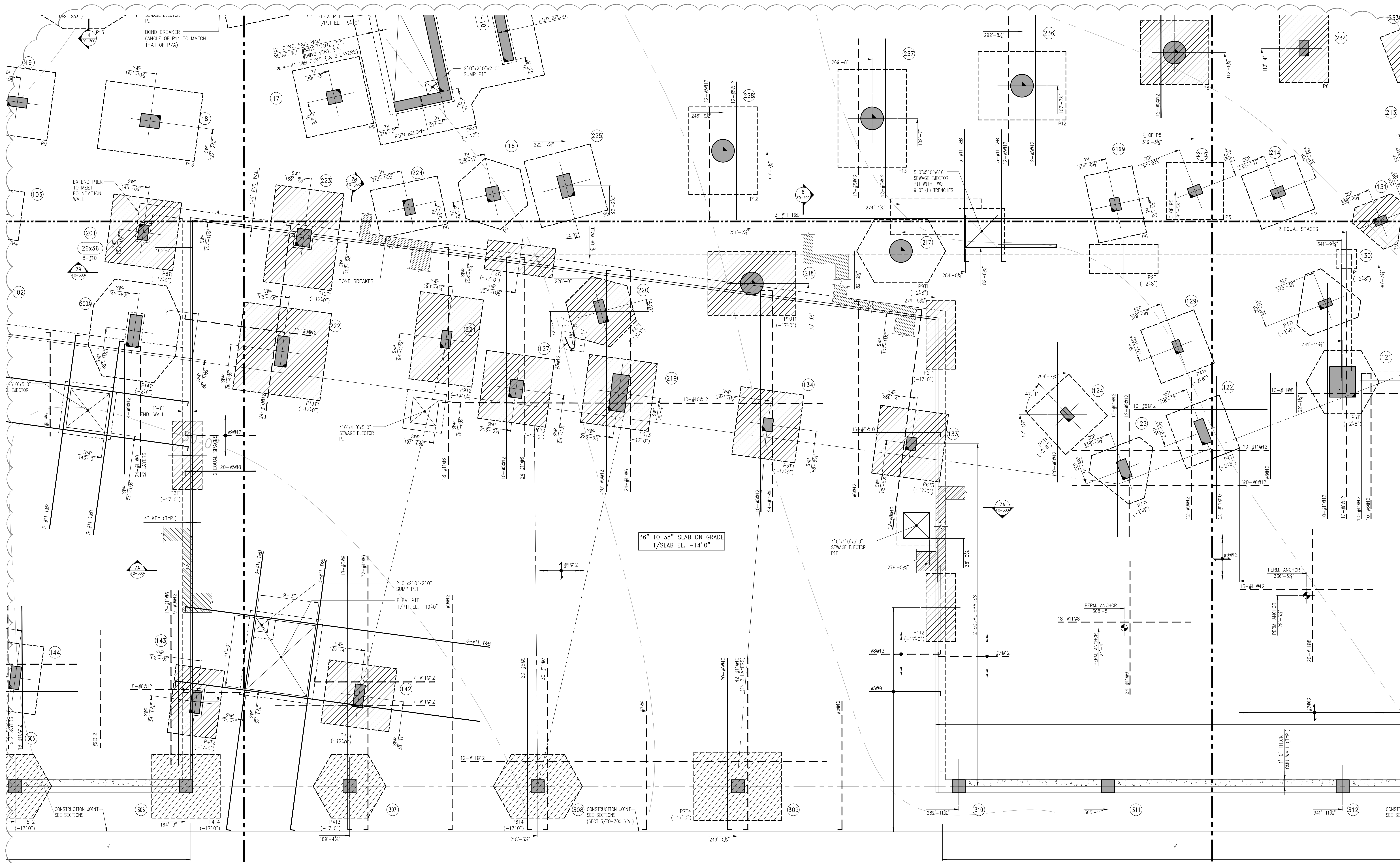
RIVERSIDE SOUTH BUILDING 4
36" TO 38" SLAB ON GRADE
T/SLAB EL. -14'-0"

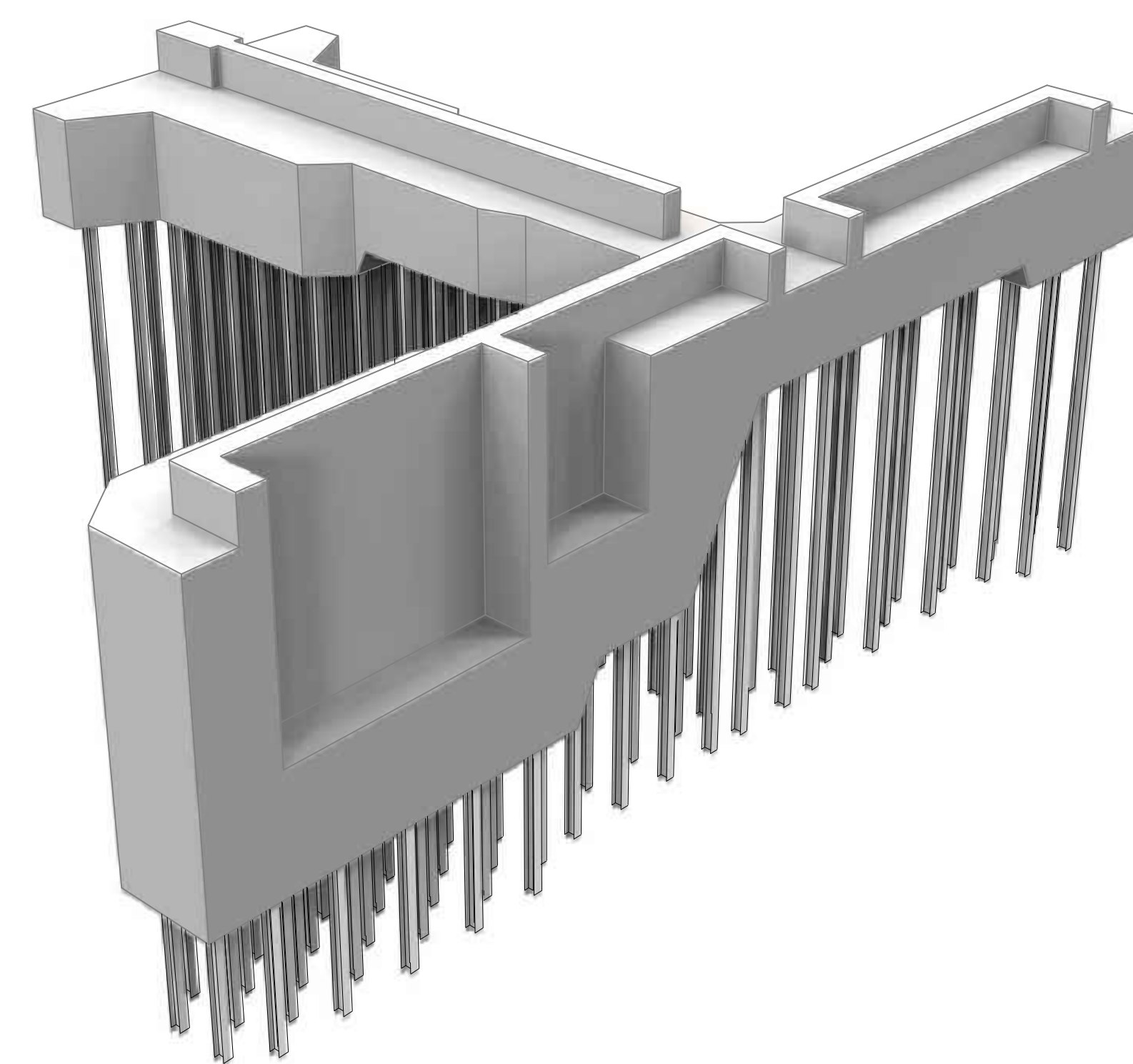
NOTES:

1. FOR BALANCE OF INFORMATION SEE FIRST CORRESPONDING FRAMING PLAN.

	EVANS INC.
--	------------

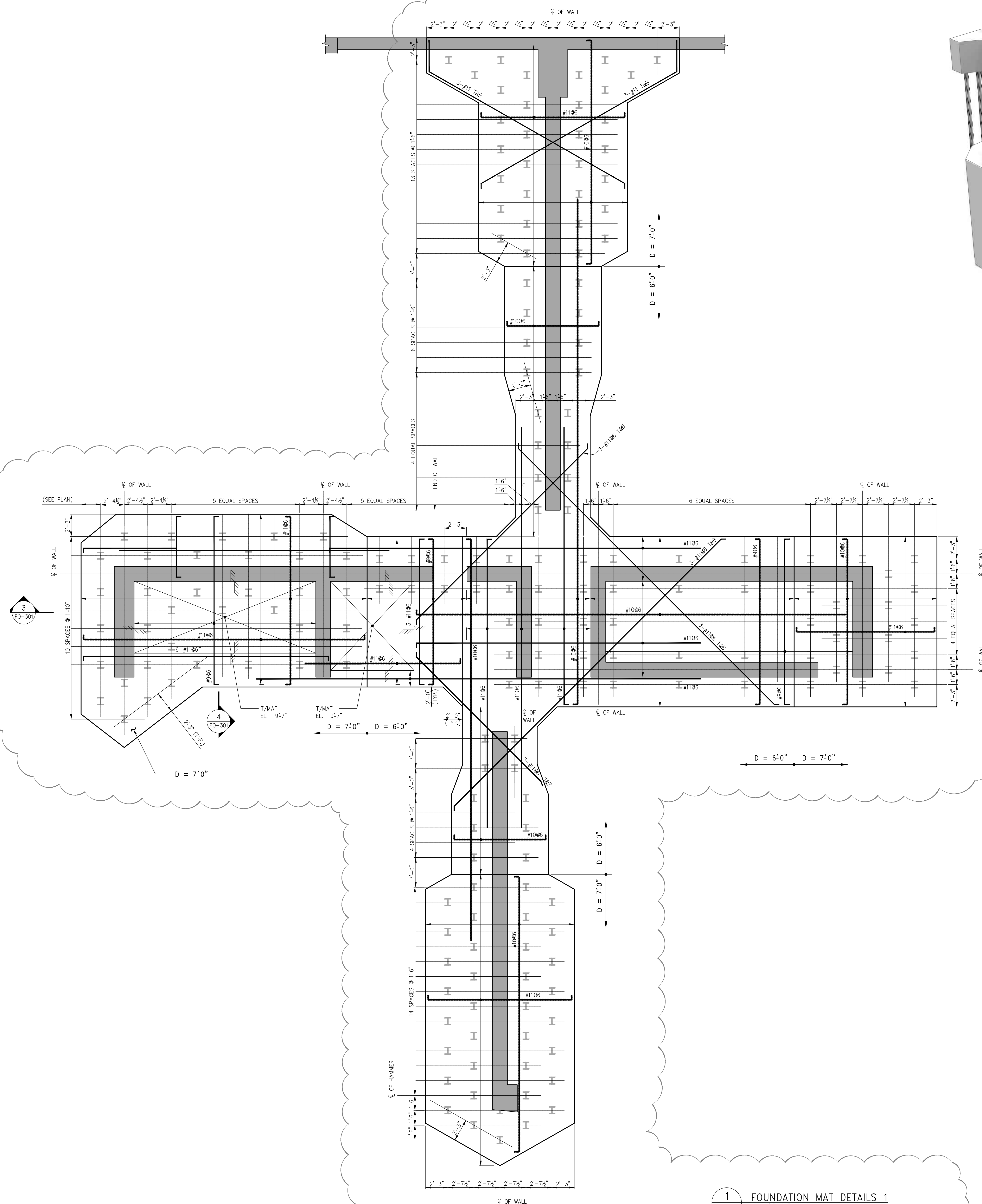
Sheet 06 of 23





NOTES:

1. PRESSURE SLAB NOT SHOWN FOR CLARITY



SP225
D = 6'-0" (U.O.N. ON PLAN)

1 FOUNDATION MAT DETAILS 1
SCALE: 1/8"=1'-0"

LEGEND:

a. INDICATES 150 TON CC/10 TON TC HP14x89 PILE

NOTES:

1. CONCRETE STRENGTH FOR ALL MATS TO BE $f'_c = 8600$ psi
2. FOR BALANCE OF NOTES AND LEGEND SEE DRAWING FO-100

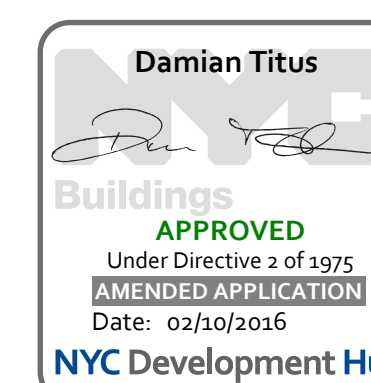


FIG. TITLE

MAT FOUNDATION DETAILS 1

SEAL & SIGNATURE

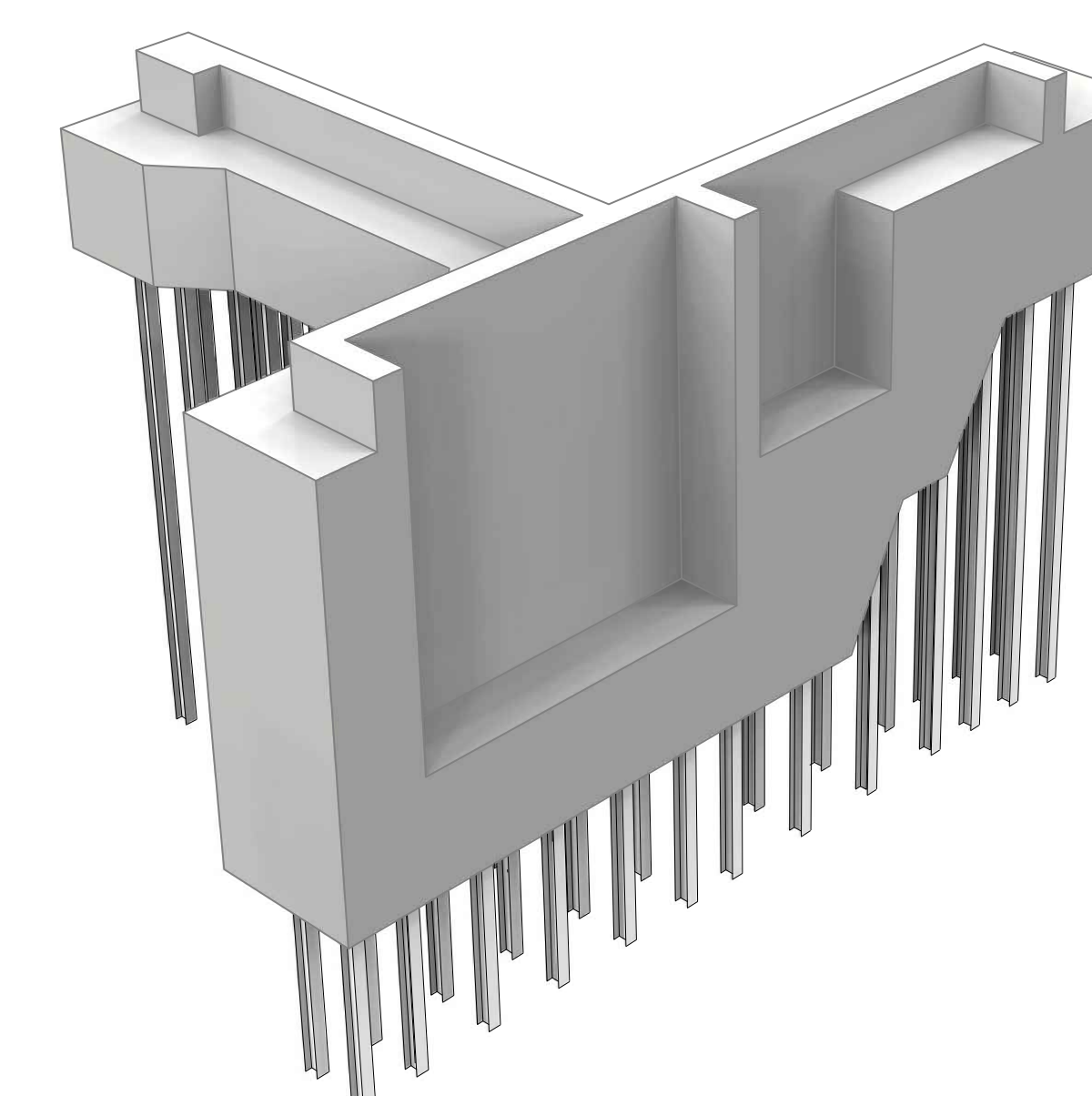
03/03/2024

DATE:

1/4"=1'-0"

FO-110.01

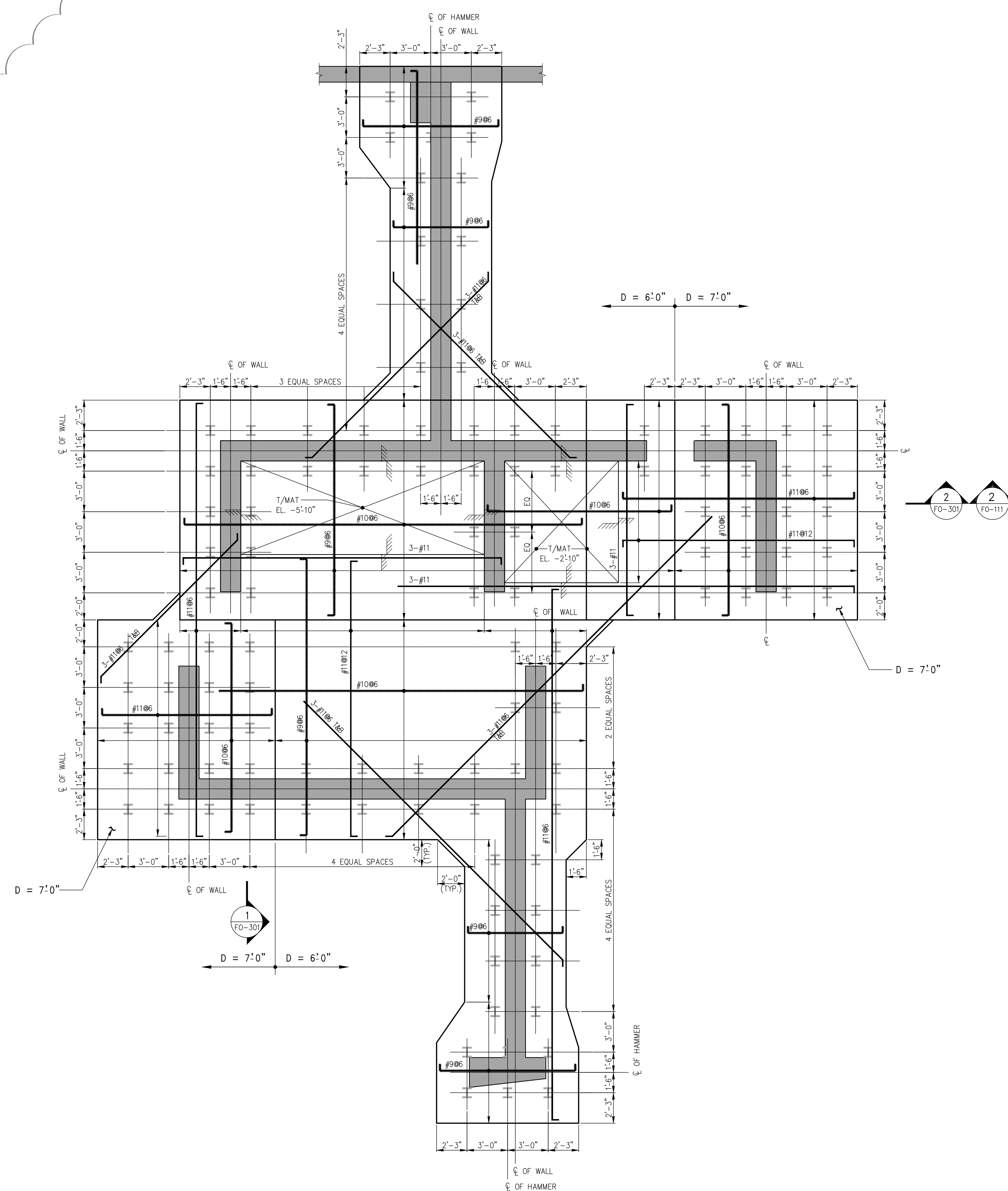
On 11/11/11



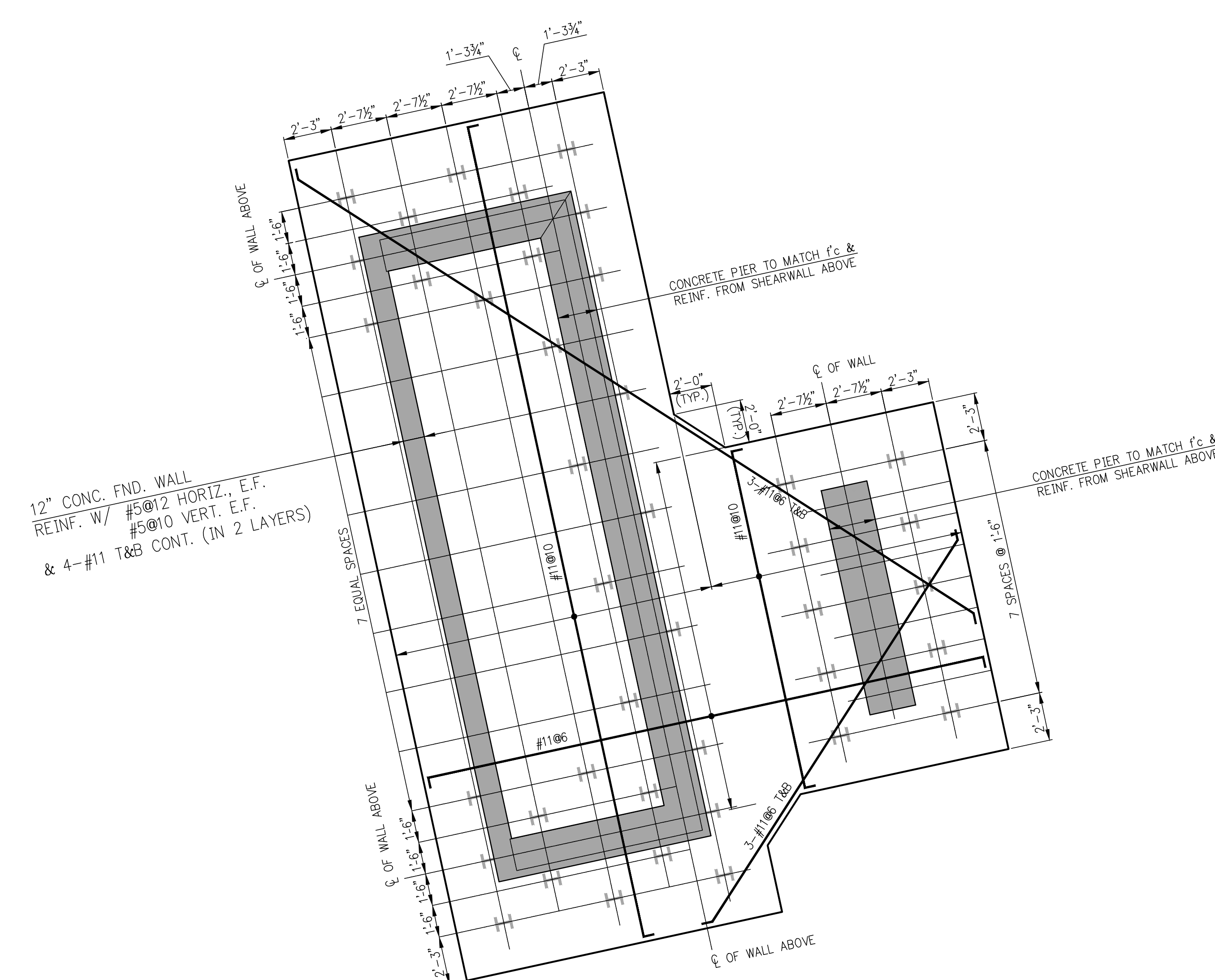
SCALE: N.T.S.

NOTES:

1. PRESSURE SLAB NOT SHOWN FOR CLARITY



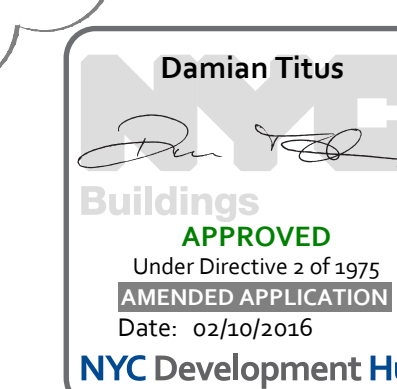
SP112
D = 6'-0" (U.O.N. ON PLAN)



SP47
D = 5'0" (U.O.N. ON PLAN)
BOTTOM MAT REINF. TO BE #10@6 E.W. CONT.
(U.O.N. ON PLAN)

NOTES:

1. FOR NOTES AND LEGEND SEE DRAWING FO-110



SEAL & SIGNATURE:	03/03/2004
-------------------	------------

DATE: 03/02/2015

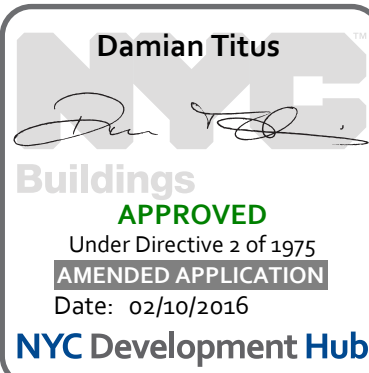
PROJECT 4: 14901C

SCAFF. 1/4"=1'-0"

100

10-11.01

Sheet 10 of 23



Page 11 of 2

TYPICAL CROSS SECTION THRU PILECAP DETAIL

TYPICAL CROSS SECTION THRU PILE/MINI CAISSON DETAIL

ELEVATION
CAISSON WITH 750 TONS OF COMPRESSION CAPACITY
AND 375 TONS OF TENSION CAPACITY

TYPICAL PILECAP / CAISSON NOTES:

1. WHERE SLAB IS POURED OVER FOUNDATION PRIOR TO COLUMN, VERTICAL REINFORCING AND DEVELOP LAP TO START AT TOP OF SLAB.
2. L INDICATES LENGTH OF THE PILES.
3. * INDICATES THAT DEPTH OF PILE CAP SHALL BE INCREASED BY 9" WHEN LENGTH OF THE PILES (L) IS 7'-0" \leq L \leq 10'-0" (I.E. PILE EMBED. = 1'-3")
4. ** PILE CAP REINF. PLACED EITHER SIDE OF PILE WHEN PILE EMBED. = 1'-3"
5. IF LENGTH OF PILES IS LESS THAN 7'-0", PILES SHALL BE CUT AT ROCK LEVEL AND PILE CAP SHALL BE EXTENDED DOWN TO REST ON A MINIMUM 20 TON/SQ ROCK MAINTAINING (DESIGN) TOP OF PILE CAP ELEVATION. SEE TYPICAL DETAIL ON DWG. FO-202.

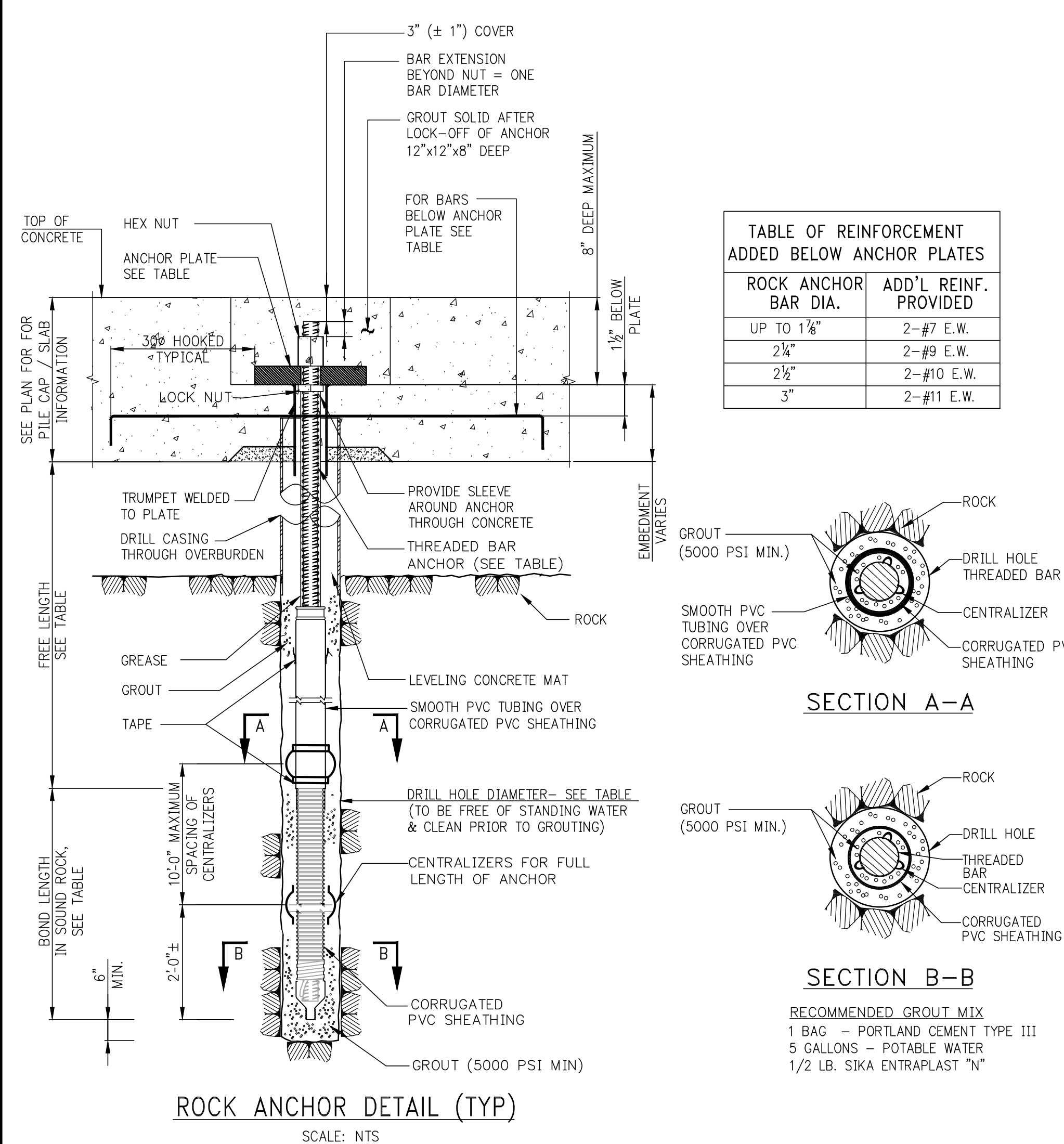


TABLE OF REINFORCEMENT ADDED BELOW ANCHOR PLATES	
ROCK ANCHOR BAR DIA.	ADD'L REINF. PROVIDED
UP TO 1 $\frac{1}{8}$ "	2-#7 E.W.
2 $\frac{1}{4}$ "	2-#9 E.W.
2 $\frac{1}{2}$ "	2-#10 E.W.
3"	2-#11 E.W.

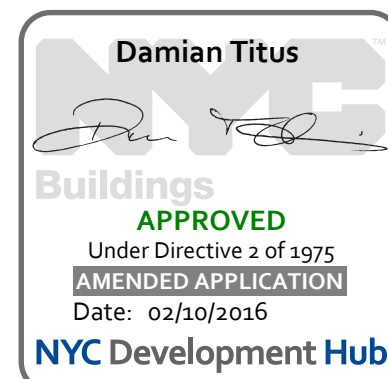
SECTION A-A

SECTION B-B

TABLE FOR DOUBLE CORROSION
PROTECTION ROCK ANCHORS

ROCK ANCHOR TYPE	THREADED BAR DIAMETER	THREADED BAR GRADE	DESIGN LOAD (KIPS)	ANCHOR PLATE (F _y =50 ksi)	MINIMUM DRILL HOLE DIAMETER	MINIMUM BOND LENGTH	MINIMUM FREE LENGTH	SPACING
PERMANENT	1-3/4"	150 KSI	300*	12"x12"x2"	6"	30'	10' OR TOP OF ROCK, WHICHEVER IS GREATER	AS SHOWN
TEMPORARY	1-1/4"	150 KSI	150*	12"x12"x2"	6"	15'		35 FT MIN.

NOTE:
ROCK ANCHOR DETAIL PROVIDED BY LANGAN
ENGINEERING (DRAWING 1 DATED 01-06-2016)



DWG TITLE

TYPICAL FOUNDATION DETAILS 2

SEAL & SIGNATURE

DATE: 01/23/2015

PROJECT # 1490102

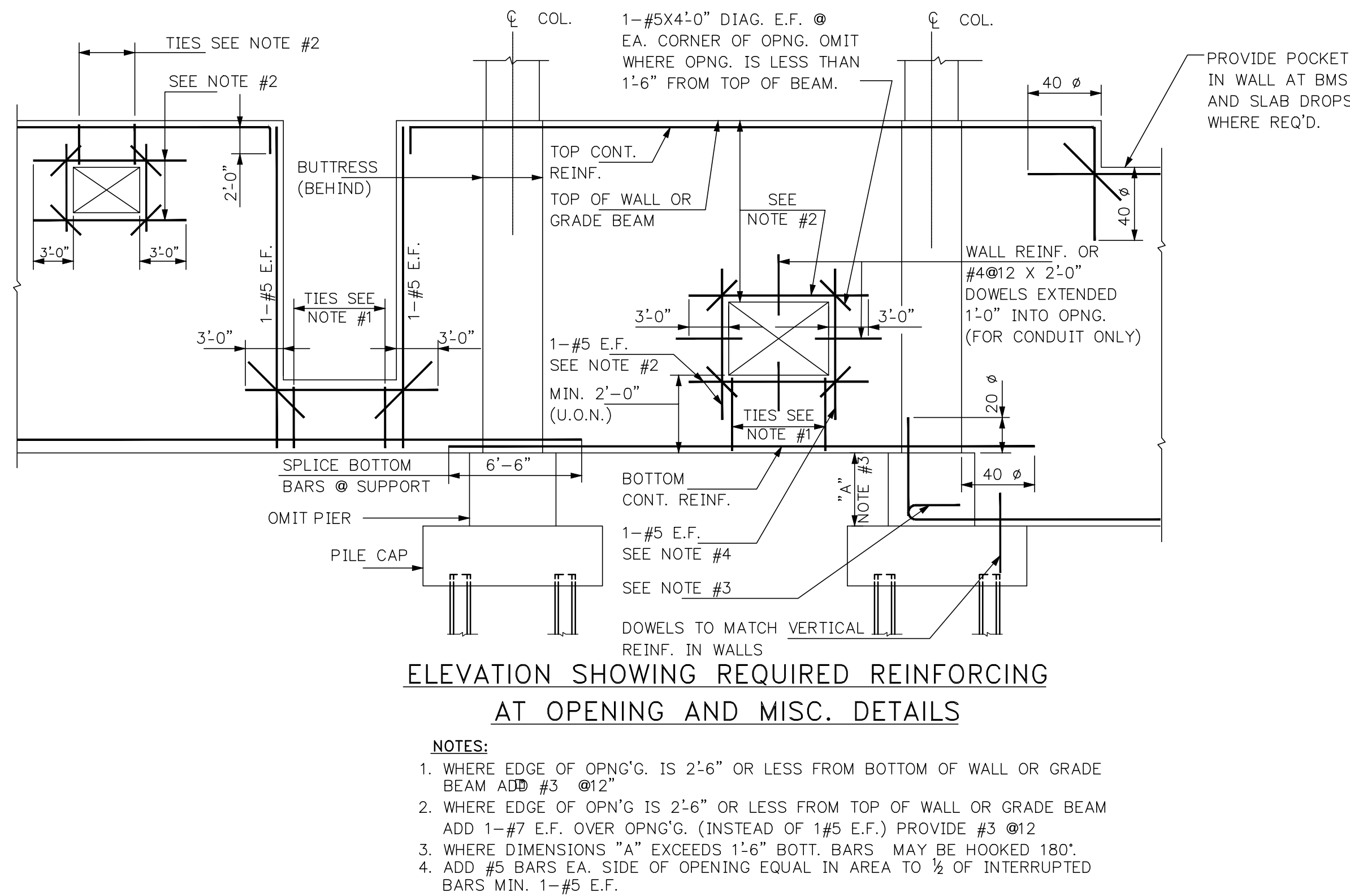
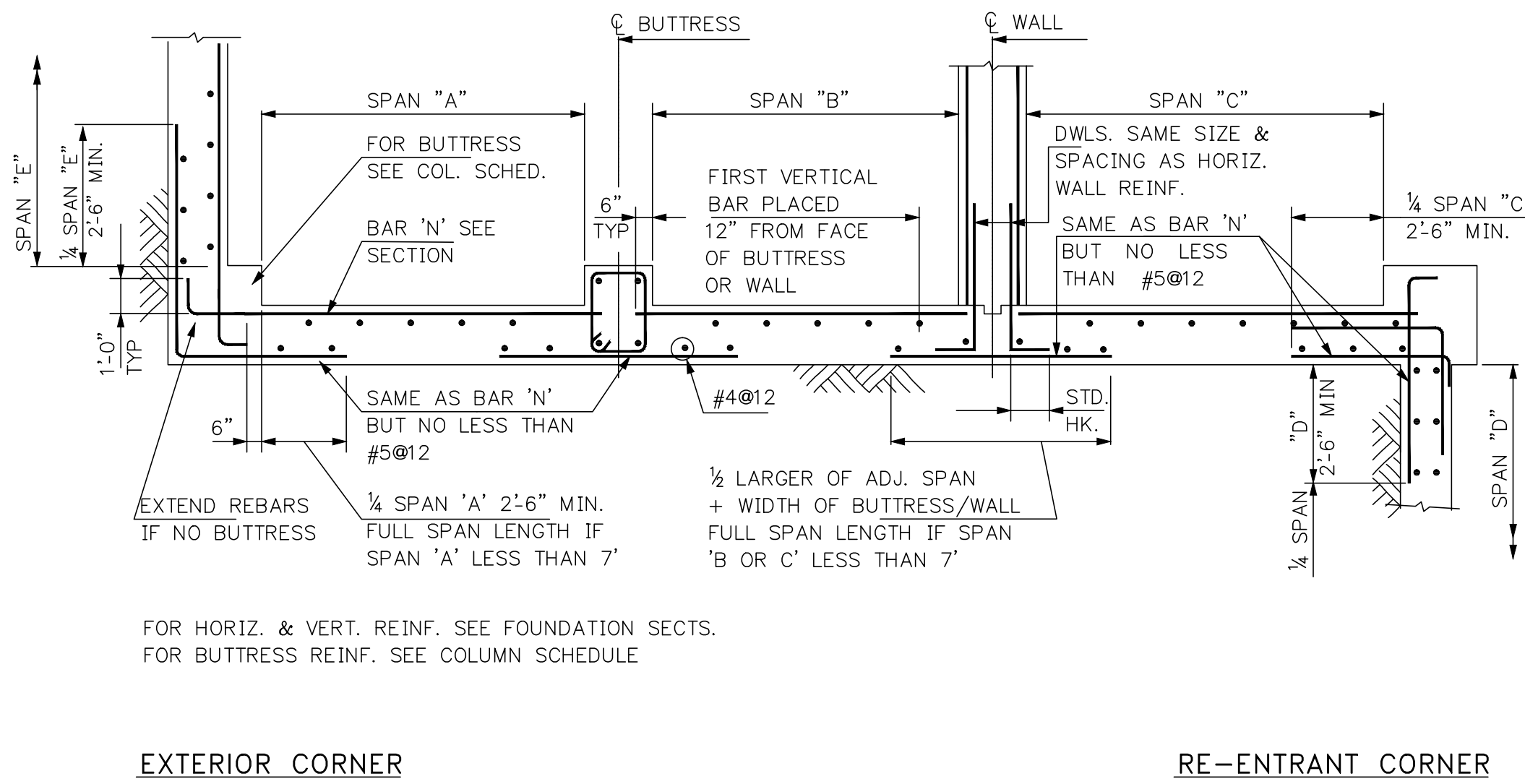
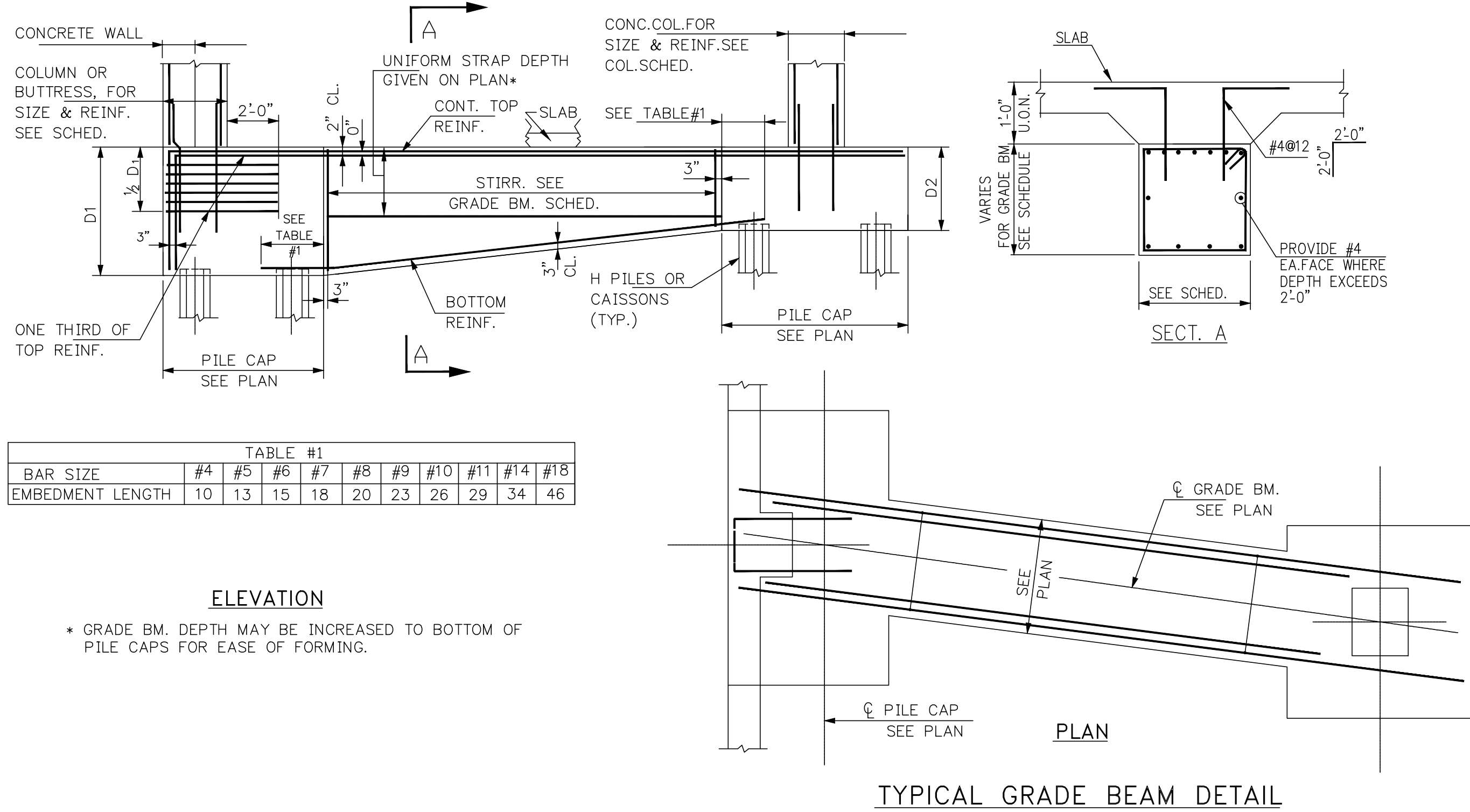
N.T.S.

--	--

FO-201.01

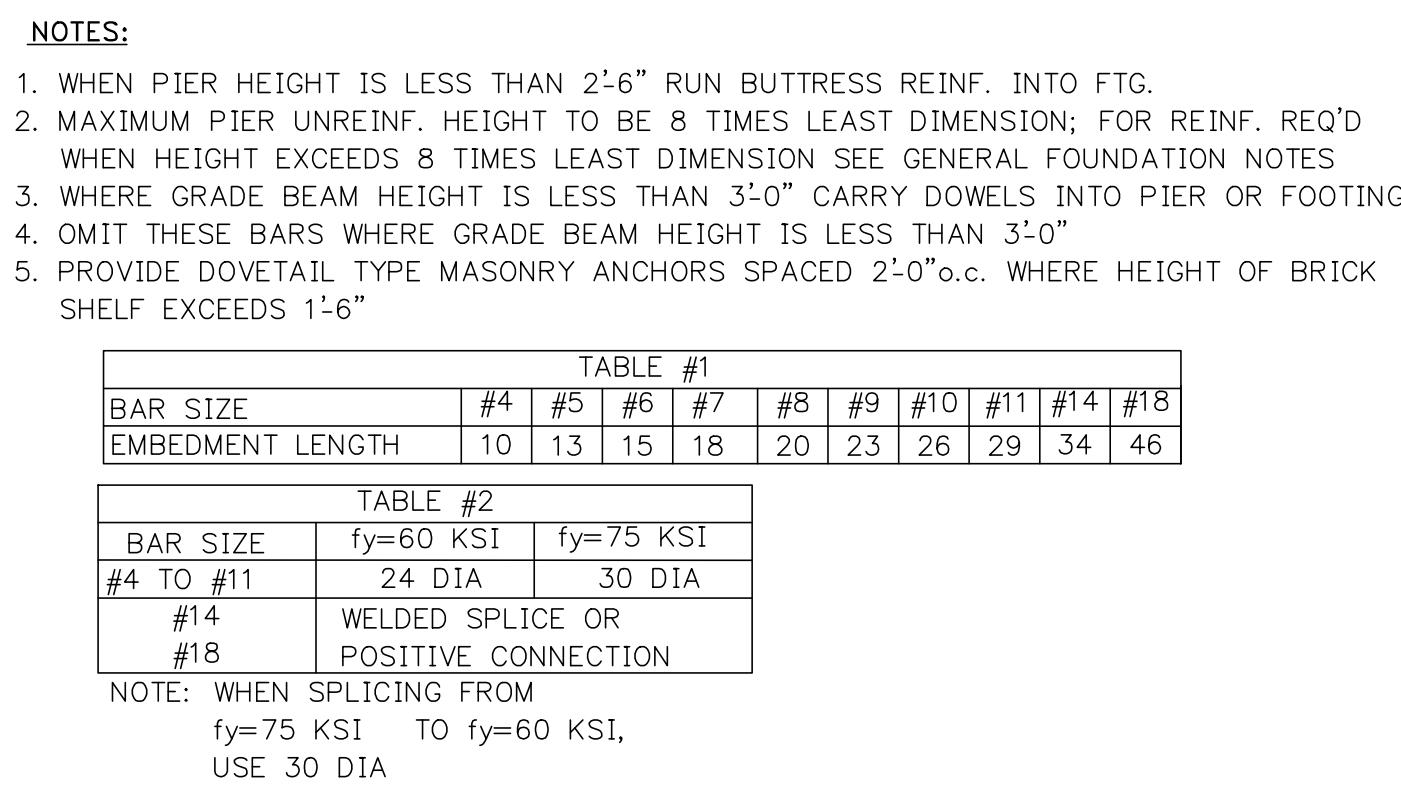
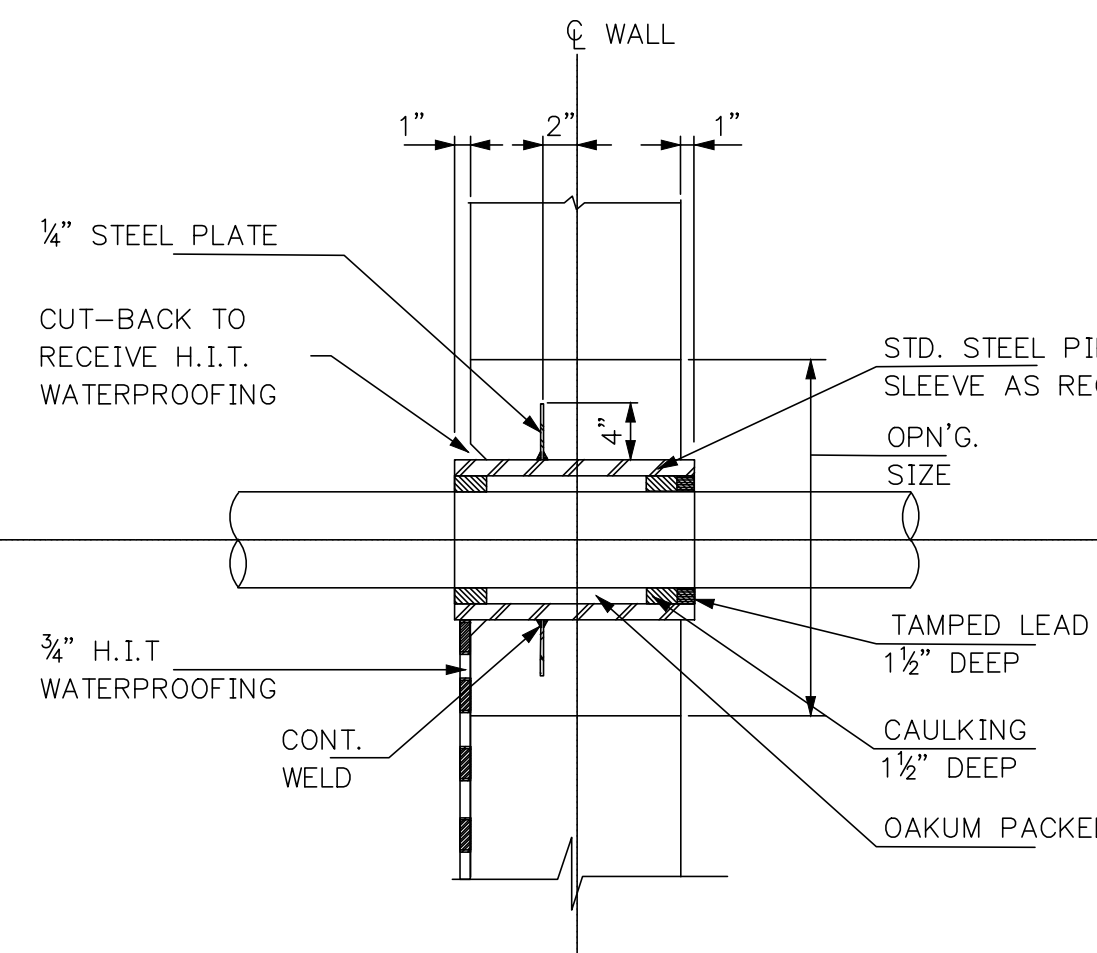
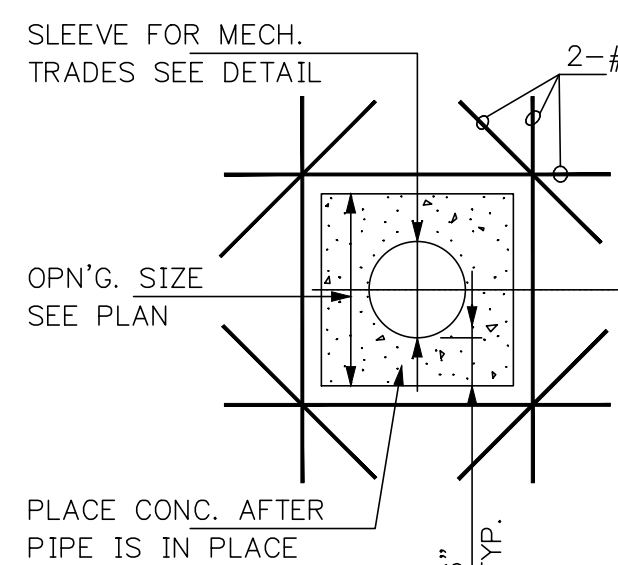
OWG NO.

© 2006 The Authors
Journal compilation © 2006 Blackwell Publishing Ltd



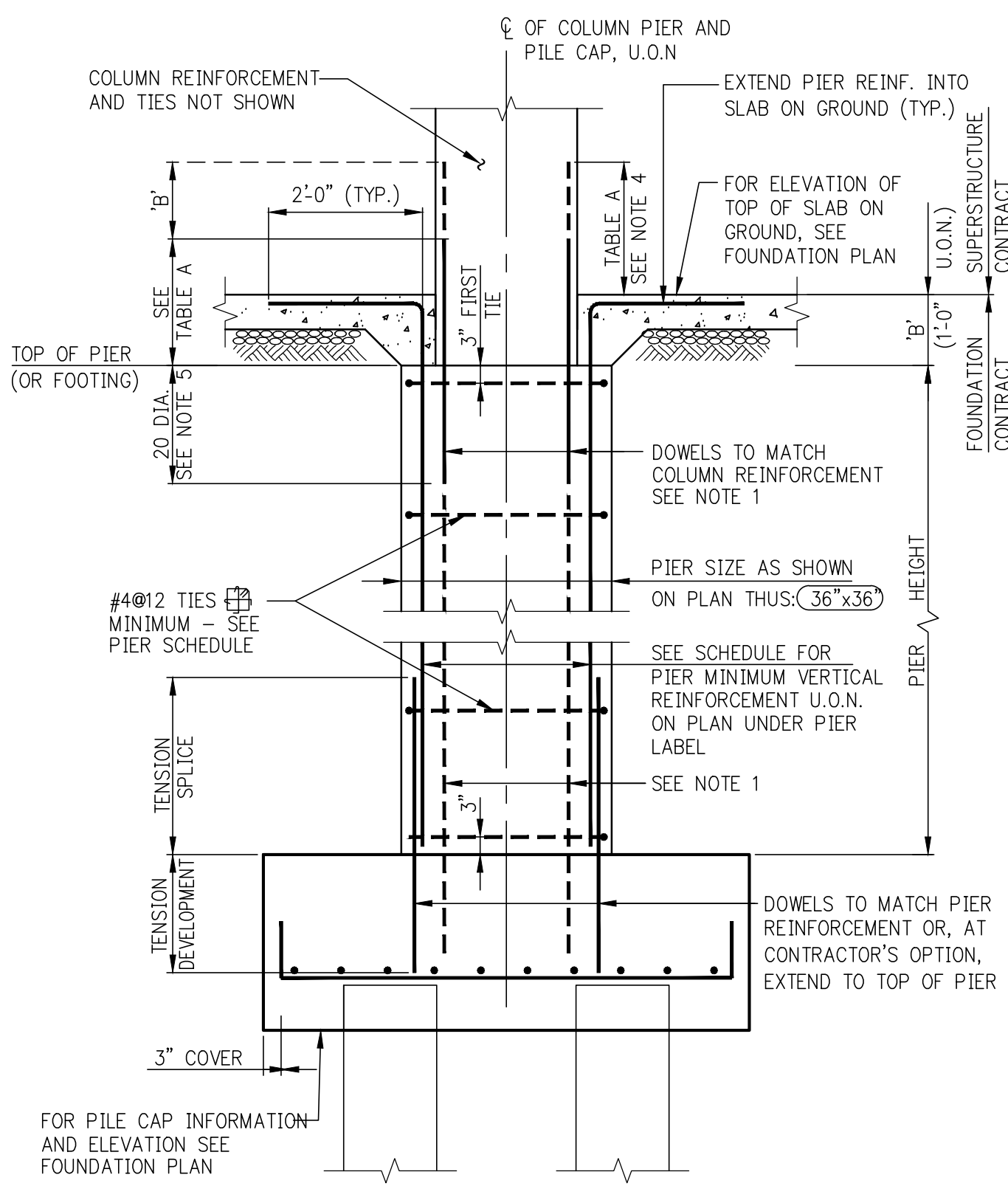
BOX OPENING AT FOUNDATION WALL

DETAIL OF WATERPROOFED SLEEVE THRU WALL WITH H.I.T. WATERPROOFING



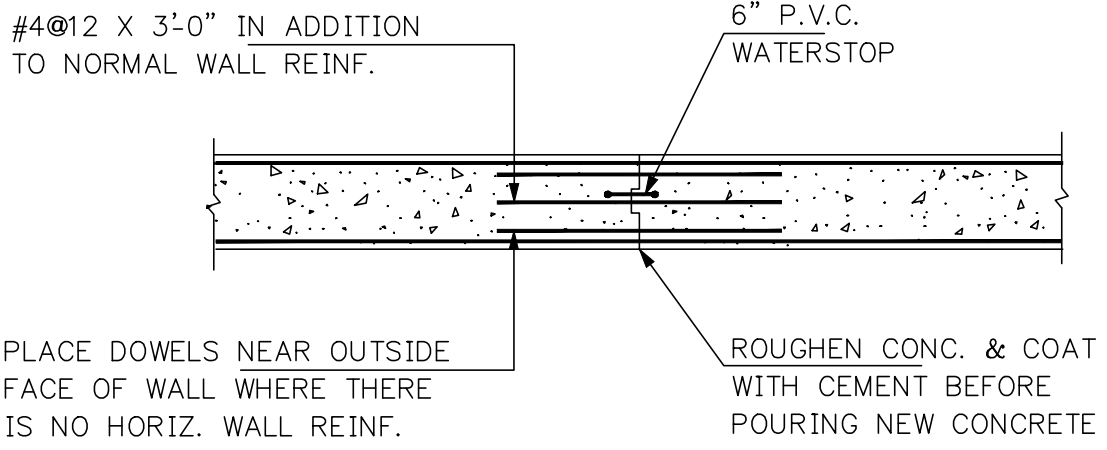
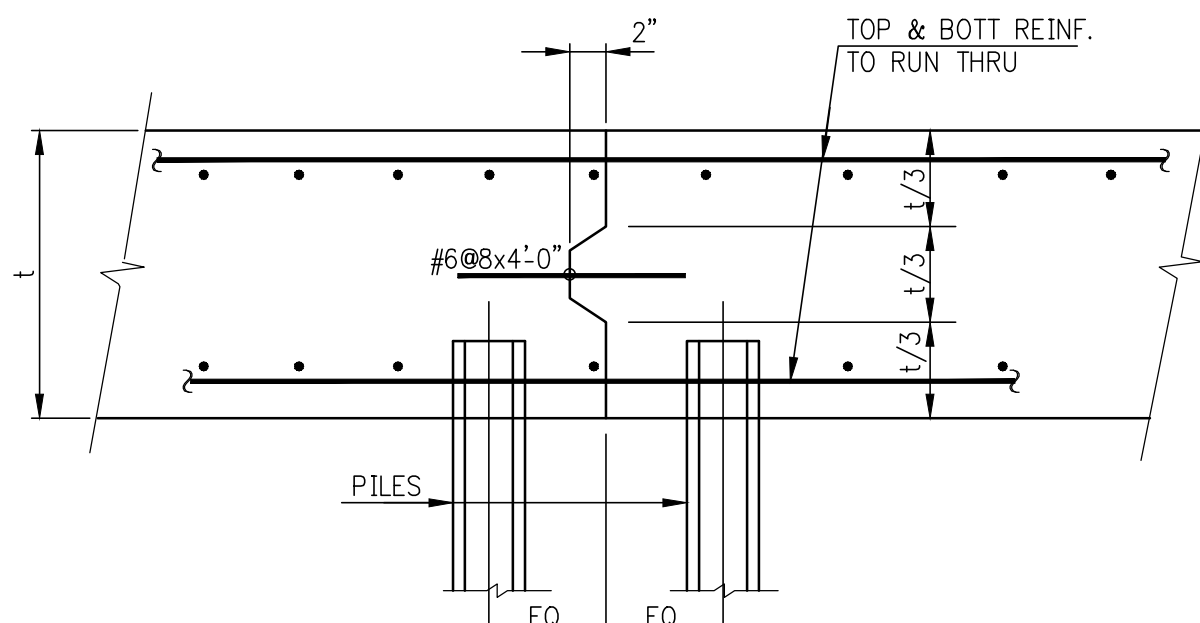
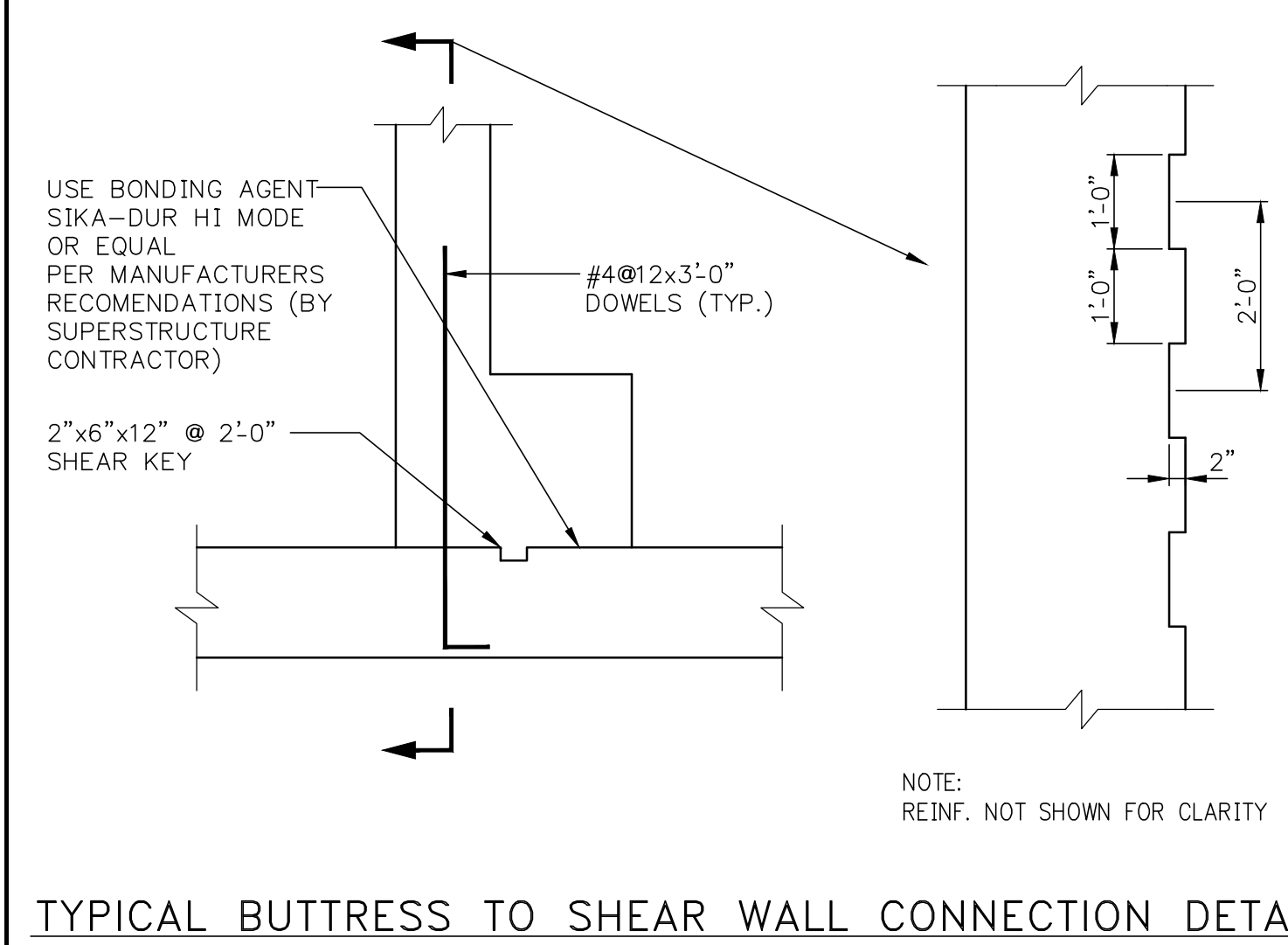
TYPICAL BUTTRESS DETAIL

INTERIOR PILE CAP AND PIER AT CONCRETE COLUMN



- NOTES:**
- WHERE PIER HEIGHT IS LESS THAN 2'-6" RUN BUTTRESS REINF. INTO FTG.
 - AT CONTRACTOR'S OPTION, A SHORT PIER MAY BE ELIMINATED BY THICKENING THE COLUMN PILE CAP TO THE TOP OF PIER ELEVATION.
 - MAXIMUM PIER HEIGHT TO BE EIGHT TIMES THE LEAST PIER DIMENSION. INCREASE PIER SIZE AS REQUIRED TO MAINTAIN THIS RATIO.
 - WHEN SLAB ON GROUND IS POURED BEFORE COLUMN, INCREASE LENGTH OF DOWELS BY DIMENSION 'B' (FROM TOP OF PIER TO TOP OF SLAB). IN ADDITION, IF COLUMN CONCRETE STRENGTH IS GREATER THAN 1.4 TIMES SLAB CONCRETE STRENGTH, THE SLAB CONCRETE STRENGTH MUST BE INCREASED LOCALLY TO MATCH COLUMN CONCRETE STRENGTH FOR A DISTANCE OF 2 FEET IN ALL DIRECTIONS FROM COLUMN FACES.
 - IF GRADE 75 COLUMN REINFORCEMENT IS USED, INCREASE DOWEL EMBEDMENT LENGTH TO 24 DIAMETERS.
 - PIER CONCRETE STRENGTH TO MATCH SLAB ON GROUND U.O.N.

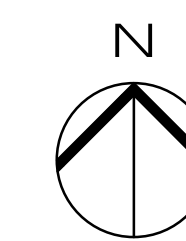
PIER: MINIMUM VERTICAL REINFORCEMENT		
PIER SIZE (OR EQUIVALENT)	VERTICAL REINF.	
UP TO 36x36	8-#8	
37x37 TO 48x48	12-#8	
49x49 TO 54x54	12-#7	
55x55 TO 66x66	16-#7	
67x67 TO 84x84	16-#8	
OVER 84 TO BE SUPPLIED IN PIER SCHEDULE		



KEY WIDTH NOT TO EXCEED 1/3 DEPTH OF WALL OR BEAM. VERTICAL CONSTRUCTION JOINT PERMITTED IN WALL OR GRADE BEAM AT ANY POINT 4'-0" MIN. AWAY FROM FACE OF SUPPORTING PIER, BUTTRESS AND/OR WALL OPENING. PROVIDE ONE VERTICAL CONSTRUCTION JOINT FOR EVERY 40'-0" OF A STRAIGHT RUN OF WALL. PLACE CONCRETE IN ALTERNATE SECTIONS.

TYPICAL VERTICAL CONSTRUCTION JOINT IN WALL

KEY PLAN



DATE	DESCRIPTION
01/11/2016	REVISED FOUNDATION FOR CONSTRUCTION FOR SUBMISSION
01/07/2016	FOUNDATION FOR CONSTRUCTION FOR SUBMISSION
10/01/2015	REVISED FOUNDATION SET
03/06/2015	DOS SUBMISSION
03/02/2015	FOUNDATION BID SET
01/23/2015	100% SCHEMATIC DESIGN
DATE	REVISION

OWNER: GID DEVELOPMENT
125 HIGH STREET
HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110

PROJECT: RIVERSIDE CENTER BUILDING 1
NEW YORK, NY

EXECUTIVE ADDRESS: **GHWA**
Goldstein, Hill & West Architects, LLP
11 Broadway, Suite 1700
New York, NY 10004
Tel (212) 213-8007 Fax (212) 686-1754

DESIGN ARCHITECT: **KPF**
KOHN PEDERSEN FOX ASSOCIATES PC
11 West 42nd Street
New York, NY 10036
Tel: (212) 977-6500 Fax: (212) 956-2526

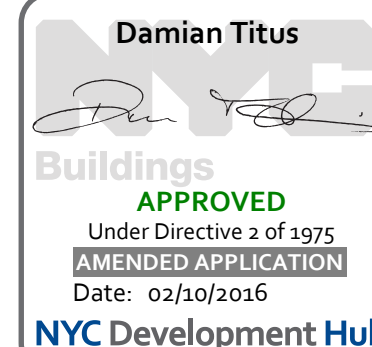
STRUCTURAL ENGINEER: **WSP BUILDING STRUCTURES CONSULTING ENGINEERS**
228 East 45th St, 3rd Floor
New York, NY 10017
Tel: (212) 687-9888 Fax: (646) 487-5501

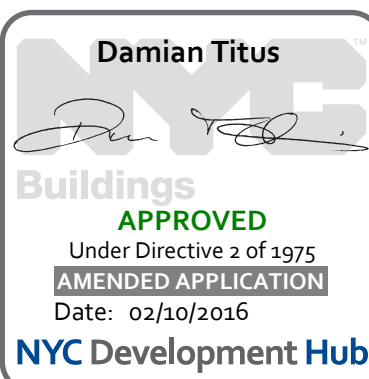
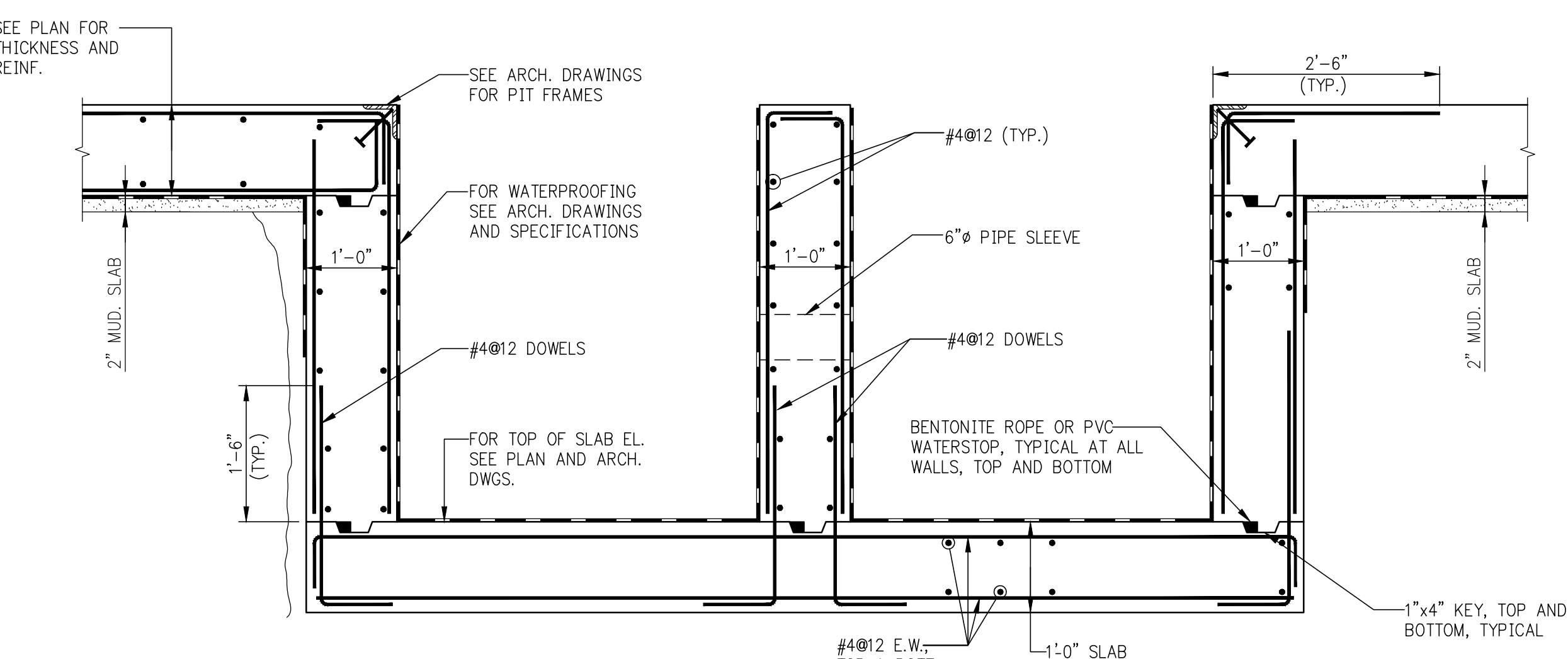
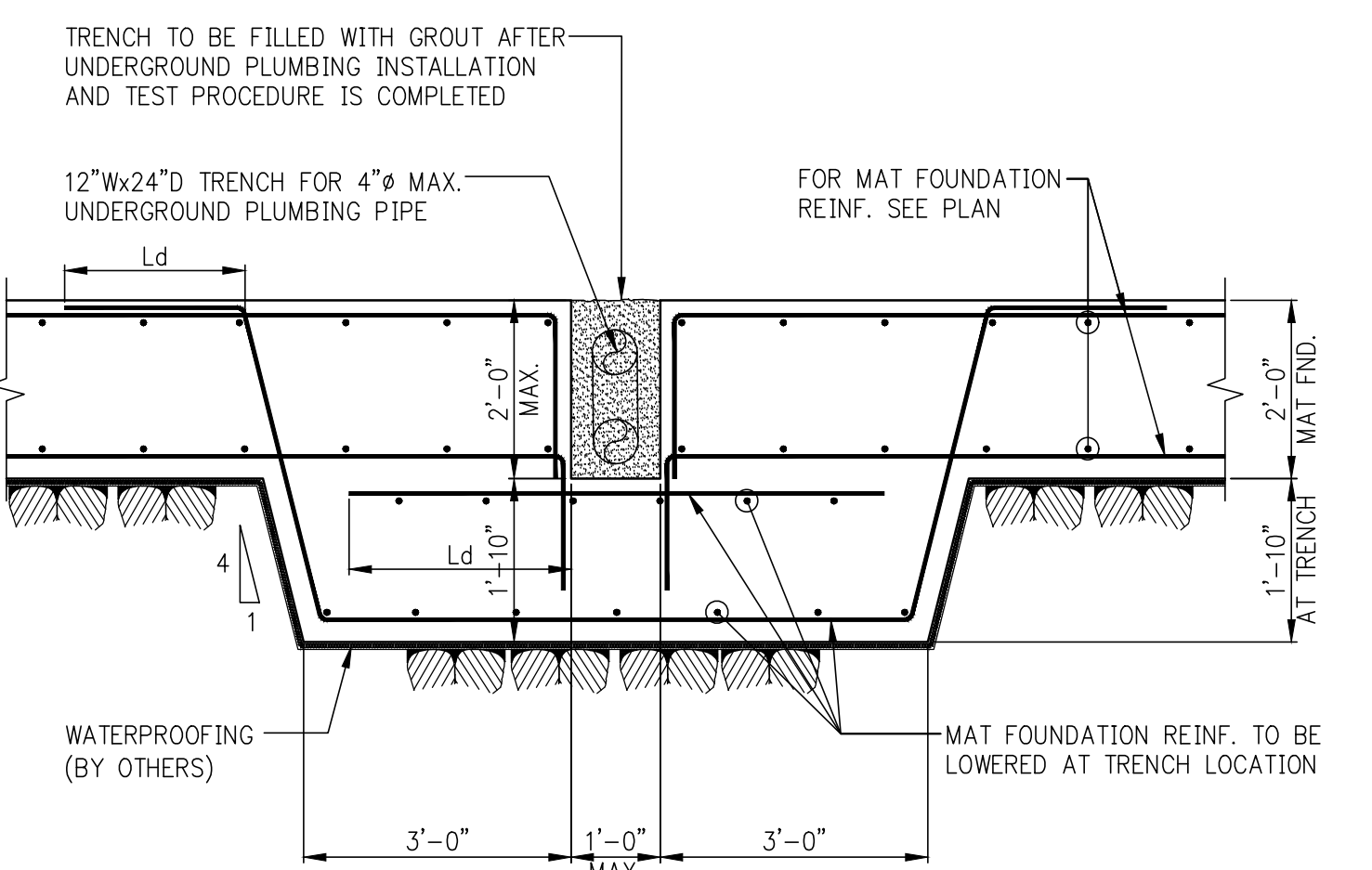
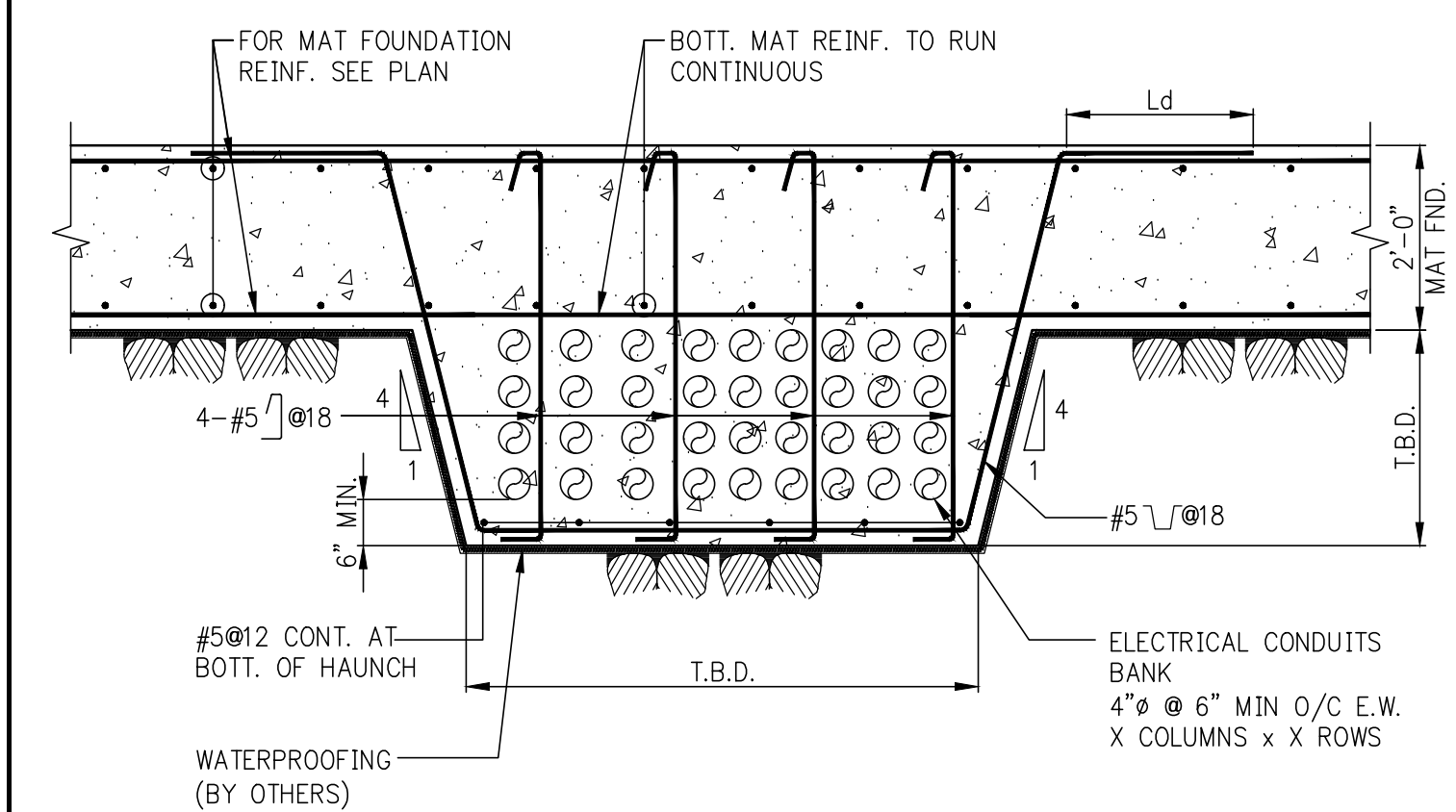
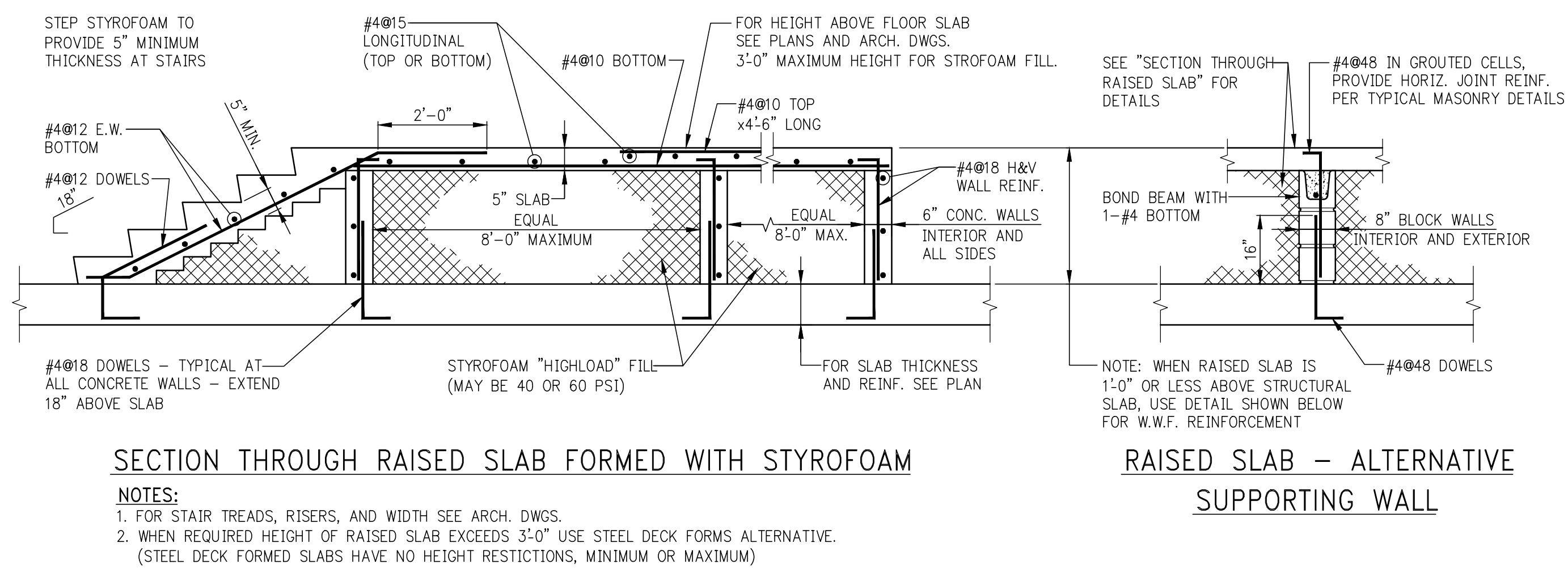
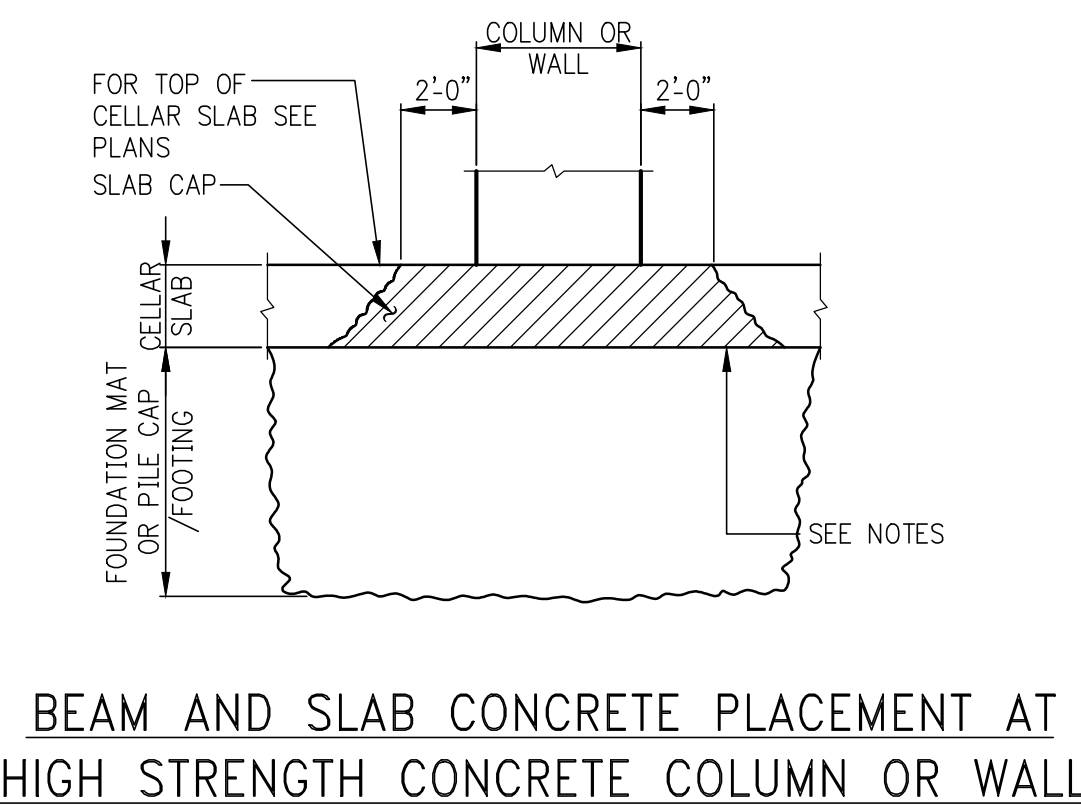
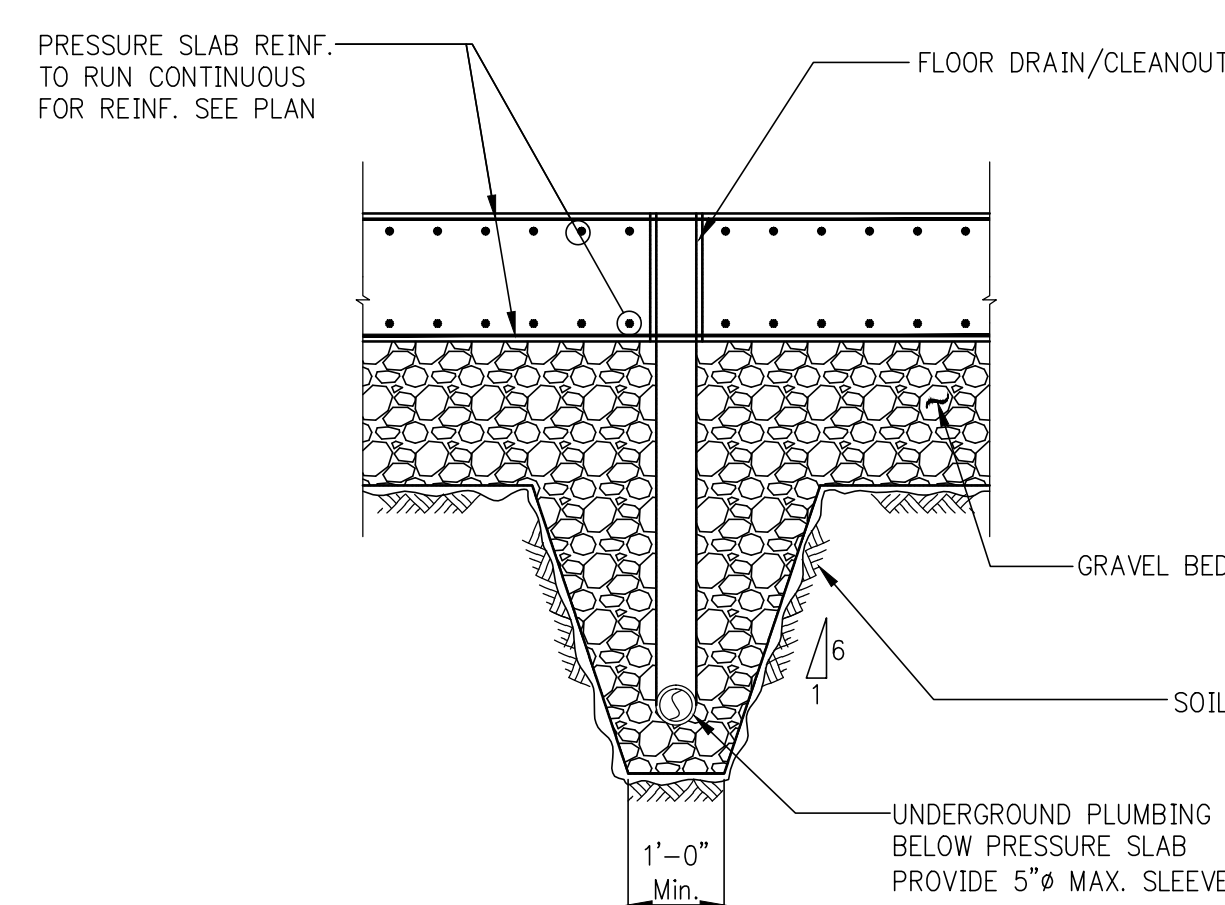
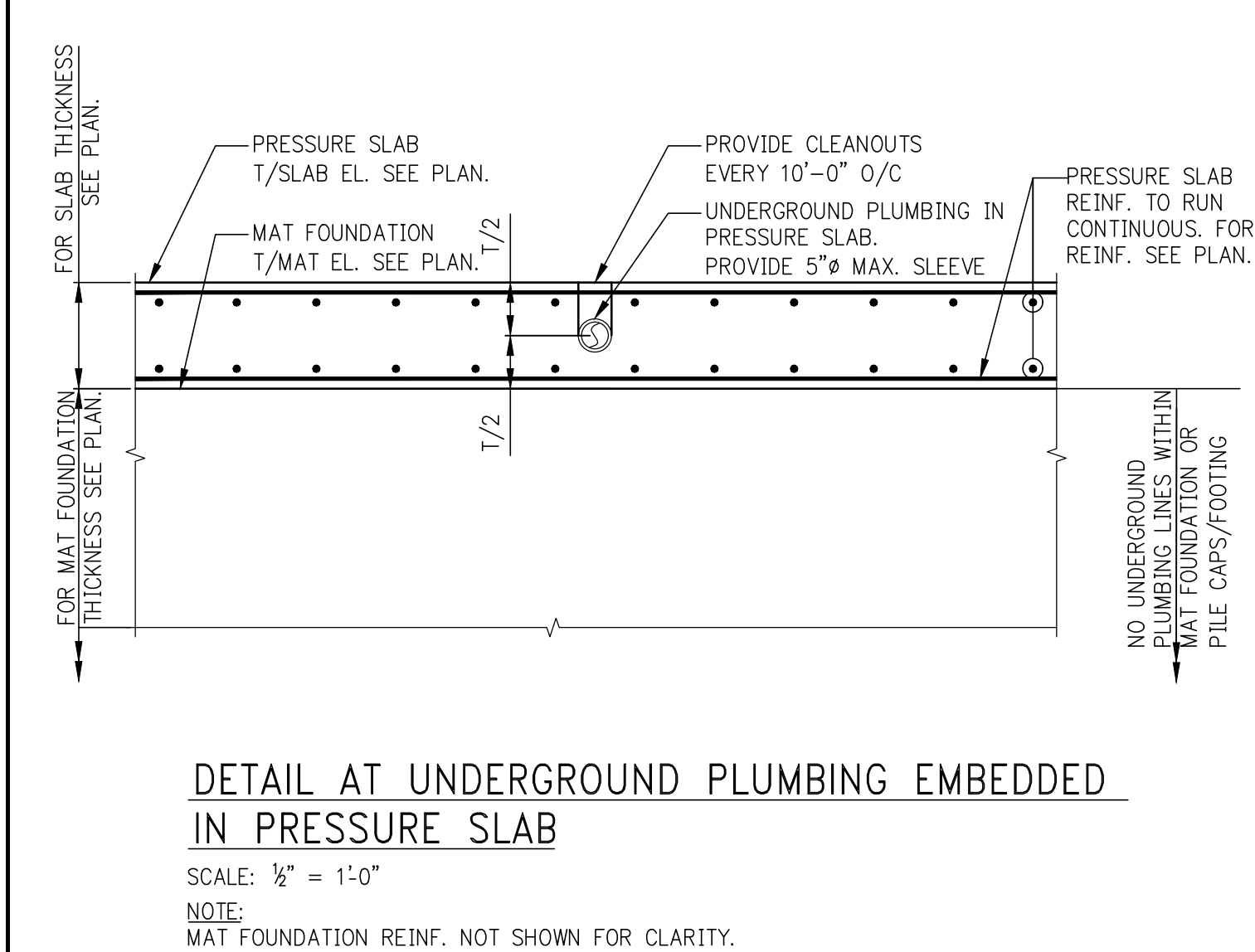
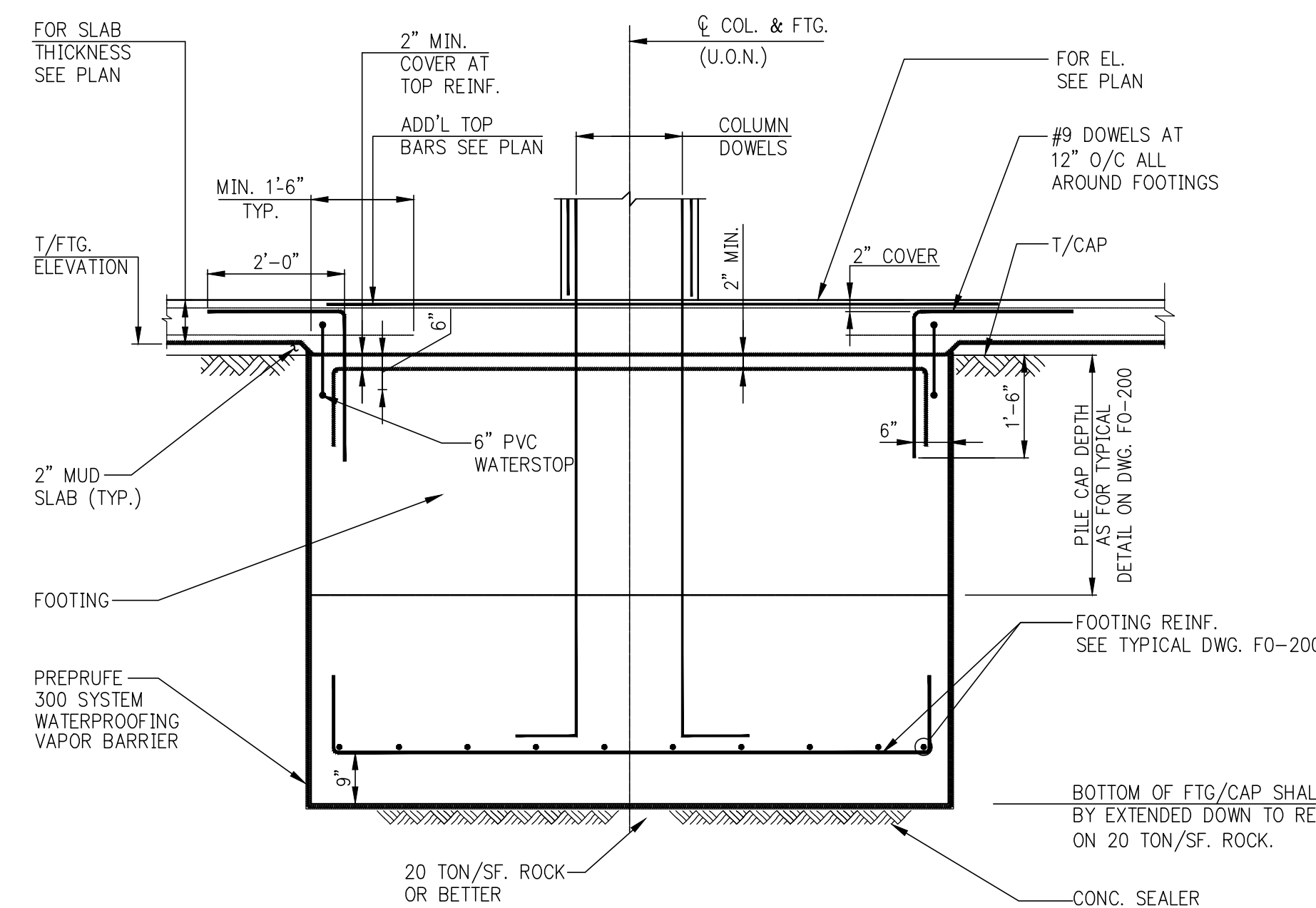
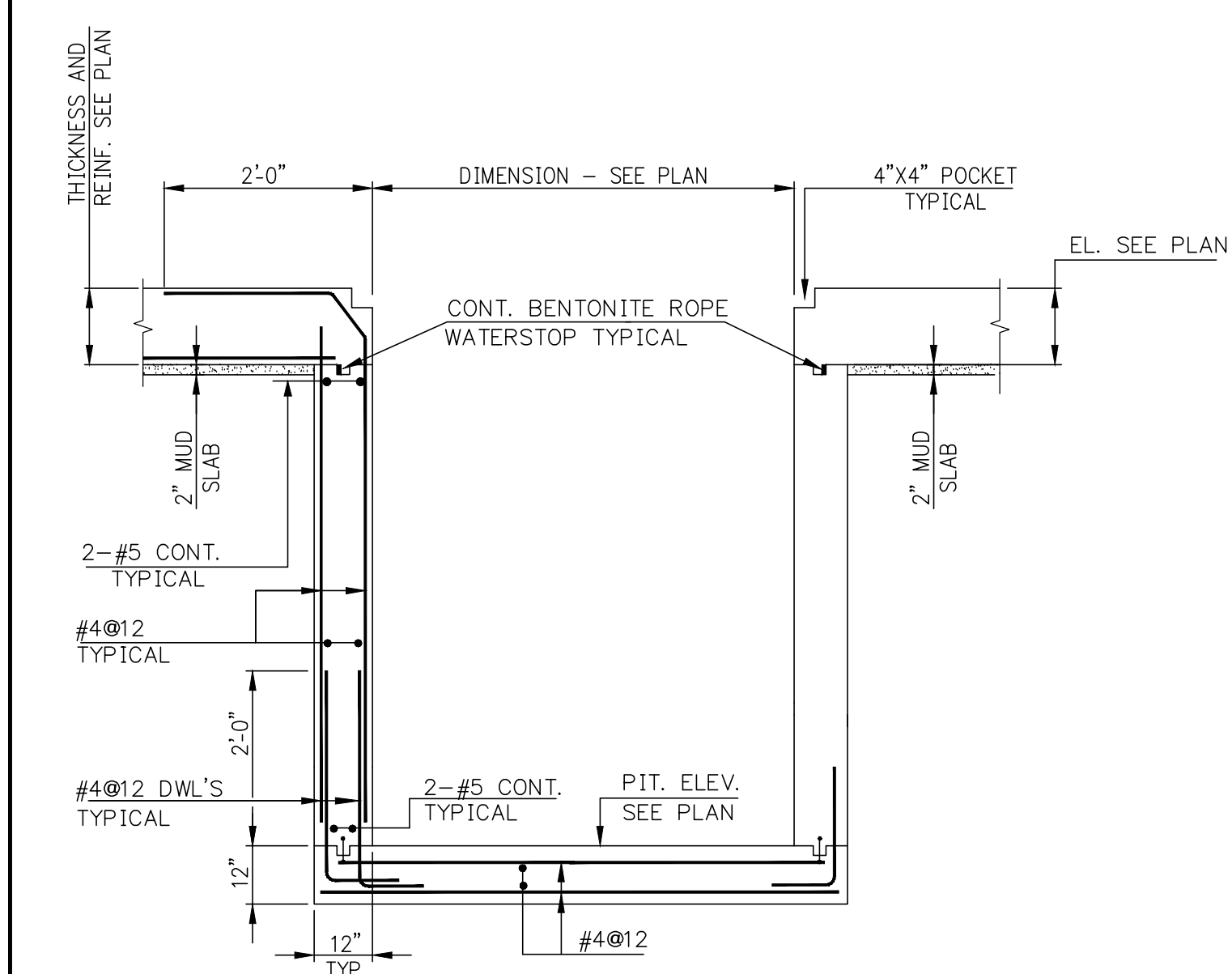
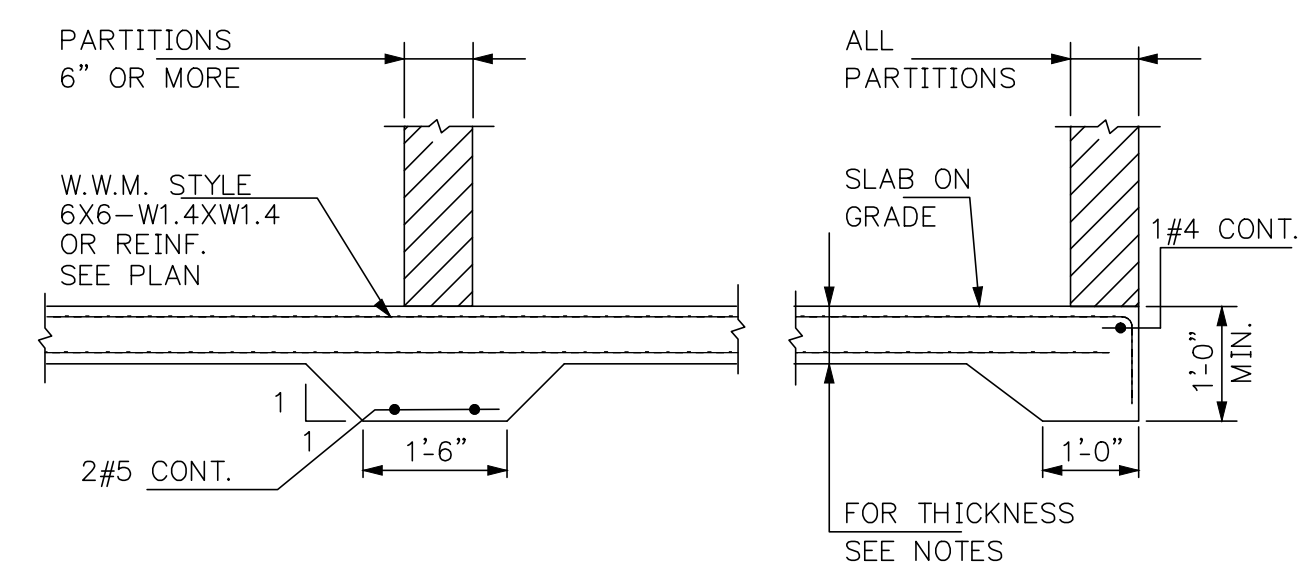
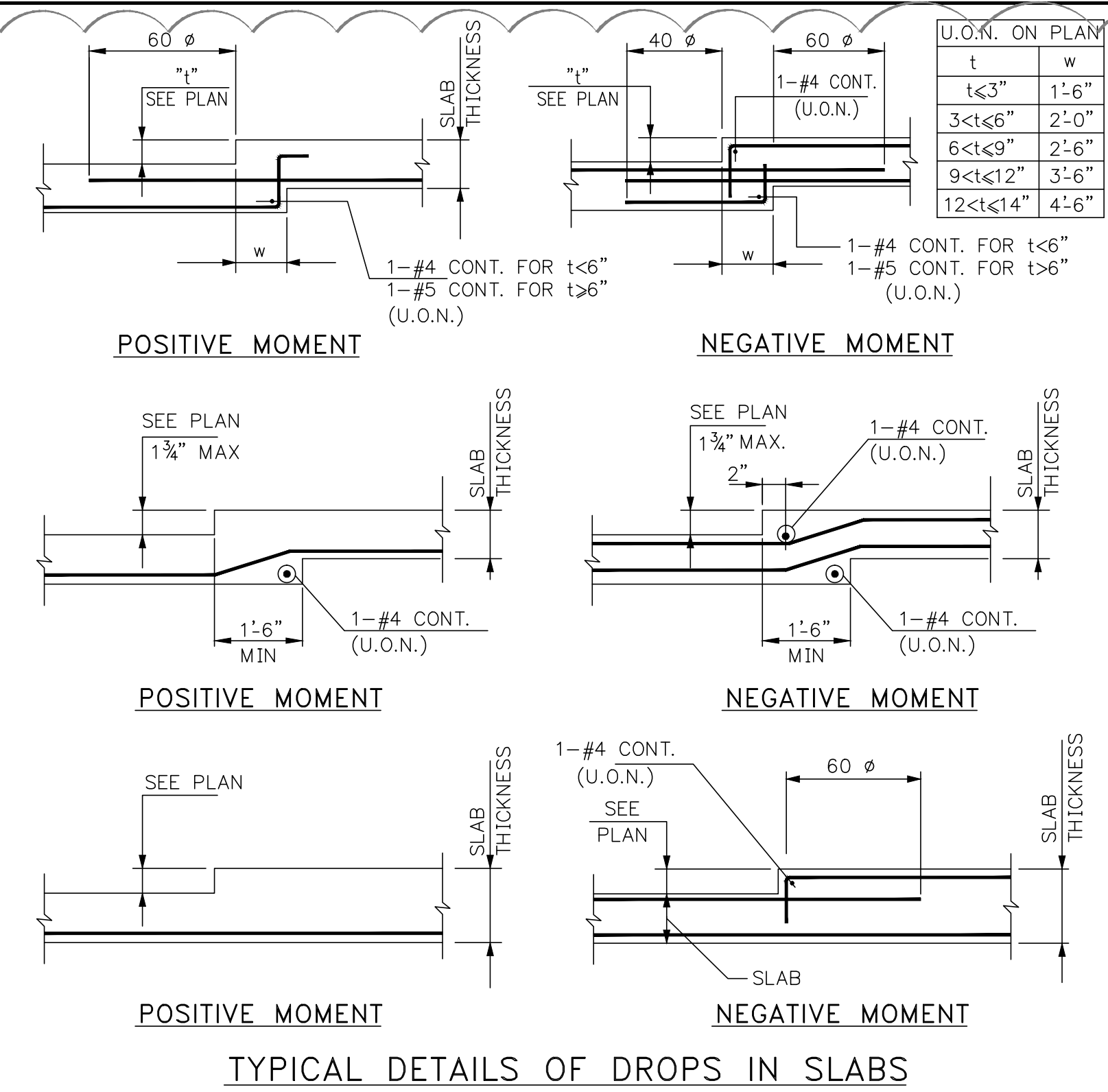
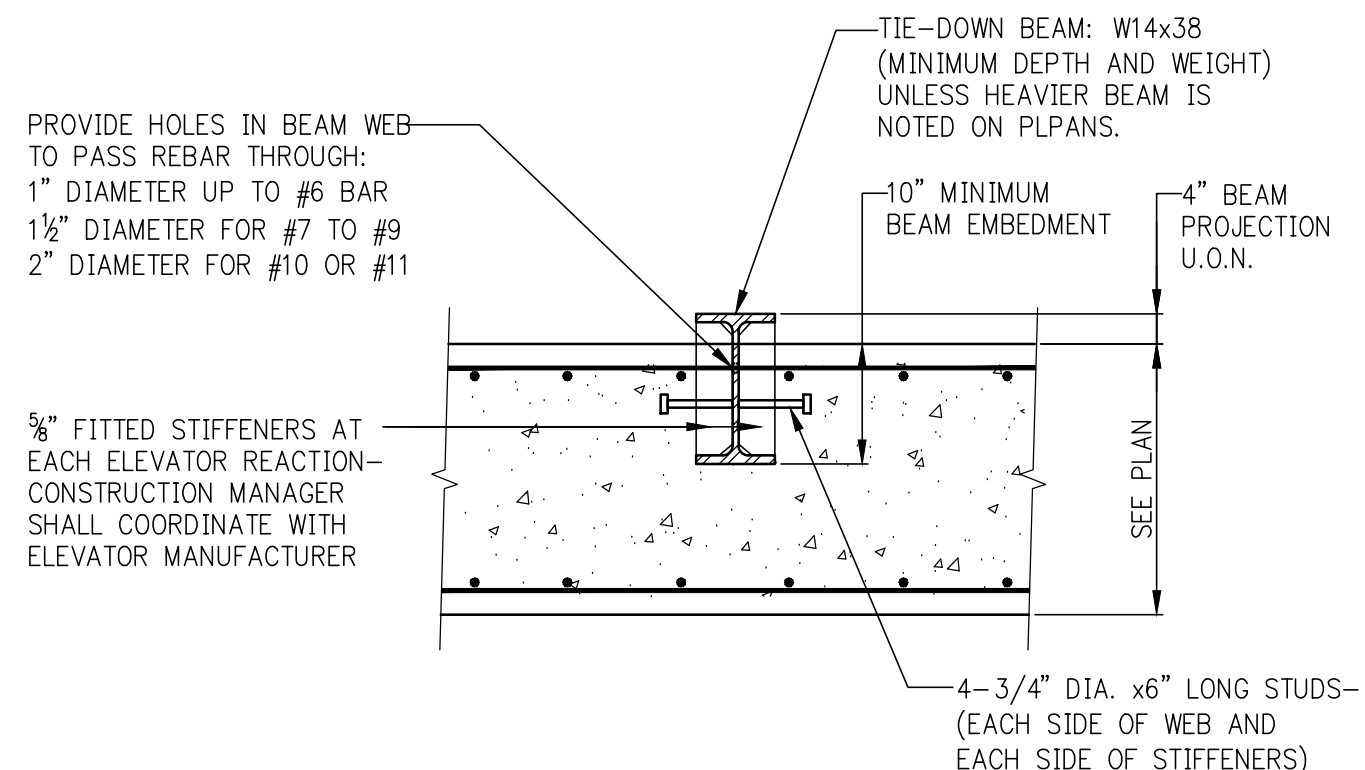
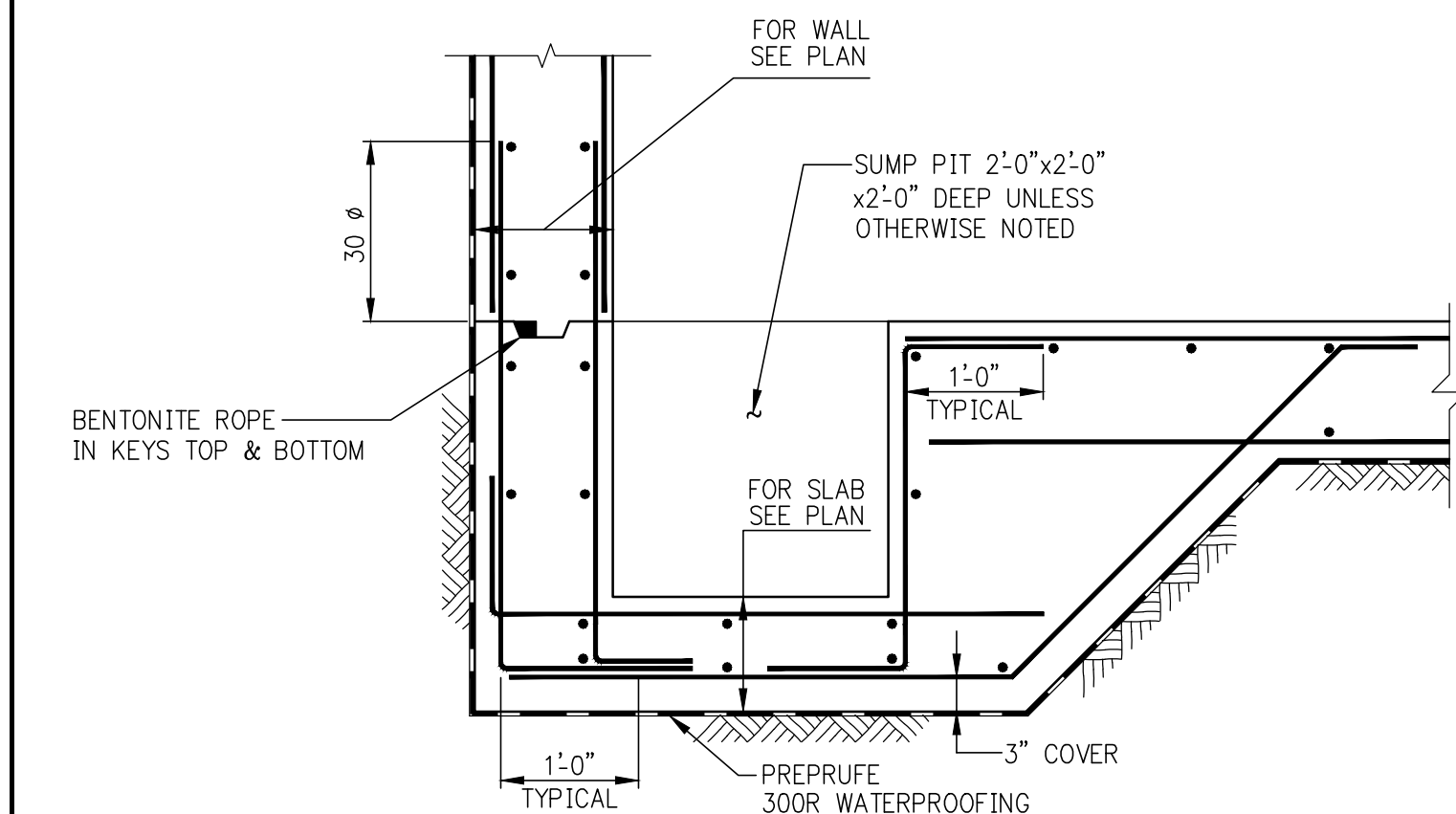
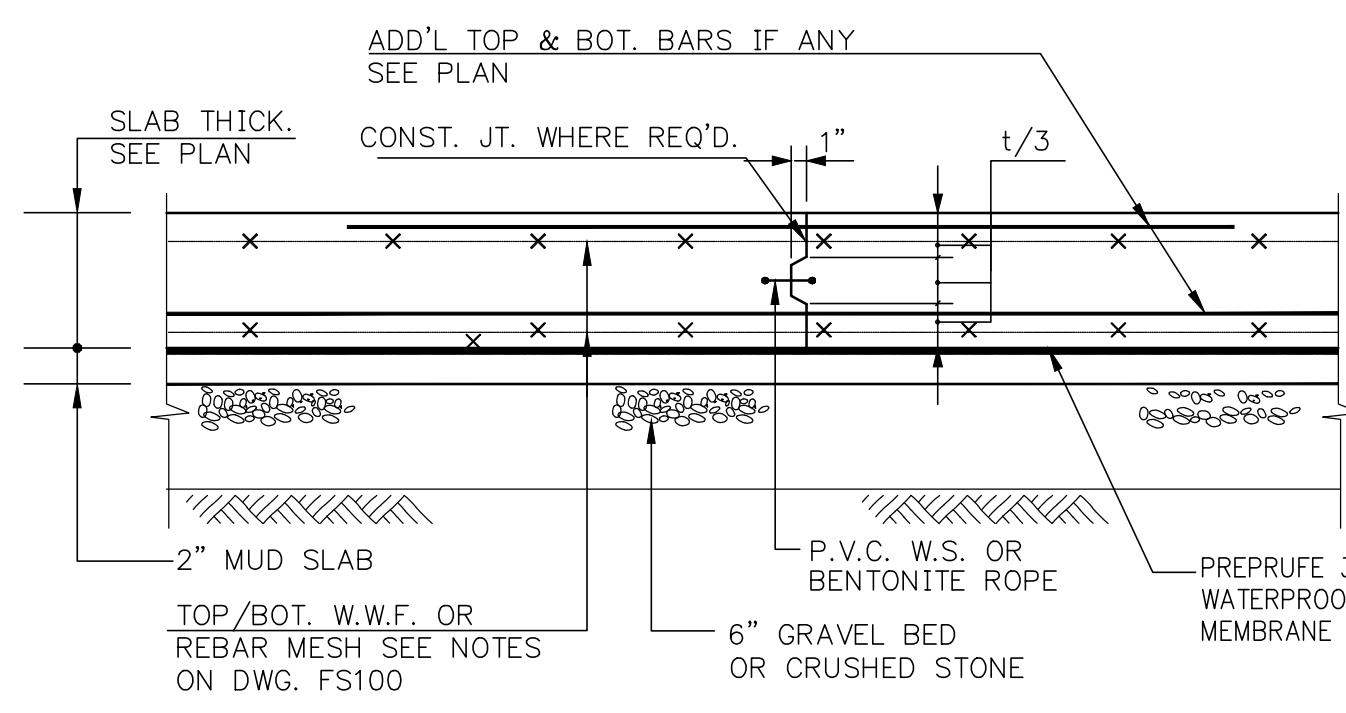
MEPEE ENGINEER: **WSP BUILDING SYSTEMS CONSULTING ENGINEERS**
512 Seventh Avenue
New York, NY 10018
Tel: (212) 532-9600

FOR STAMPS & SIGNATURES

TYPICAL FOUNDATION DETAILS 3

SCALE: N.T.S.
FO-202.01





	01/11/2016	REVISED FOUNDATION FOR CONSTRUCTION / DOB SUBMISSION
	01/07/2016	FOUNDATION FOR CONSTRUCTION / DOB SUBMISSION
	10/21/2015	REVISED FOUNDATION SET
	03/06/2015	DOB SUBMISSION
	03/02/2015	FOUNDATION BID SET
	01/23/2015	100% SCHEMATIC DESIGN
Number	Date	Revise

OWNER:
GID DEVELOPMENT
125 HIGH STREET
HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110

PROJECT:
RIVERSIDE CENTER BUILDING 1
NEW YORK, NY

EXECUTIVE ARCHITECT:

Goldstein, Hill & West Architects, LLP
11 Broadway, Suite 1700
New York, NY 10004
Tel (212) 213-8007 Fax (212) 686-1754

DESIGN ARCHITECT:



KOHN PEDERSEN FOX
ASSOCIATES PC
11 West 42nd Street
New York, NY 10036
Tel: (212) 977-6500 Fax: (212) 956-2526

STRUCTURAL ENGINEER

WSP BUILDING STRUCTURES
CONSULTING ENGINEERS

228 East 45th St, 3rd Floor
New York, NY 10017

Tel: (212) 687-9888 Fax: (646) 487-5501

MEP/FP ENGINEER:


WSP BUILDING SYSTEMS
CONSULTING ENGINEERS

512 Seventh Avenue
New York, NY 10018
Tel: (212) 532-9600

DOB STAMPS & SIGNATURES:

DWG TITLE:

TYPICAL FOUNDATION
DETAIL S 4

SEAL & SIGNATURE:	DATE: 01/23/2015
	1400102

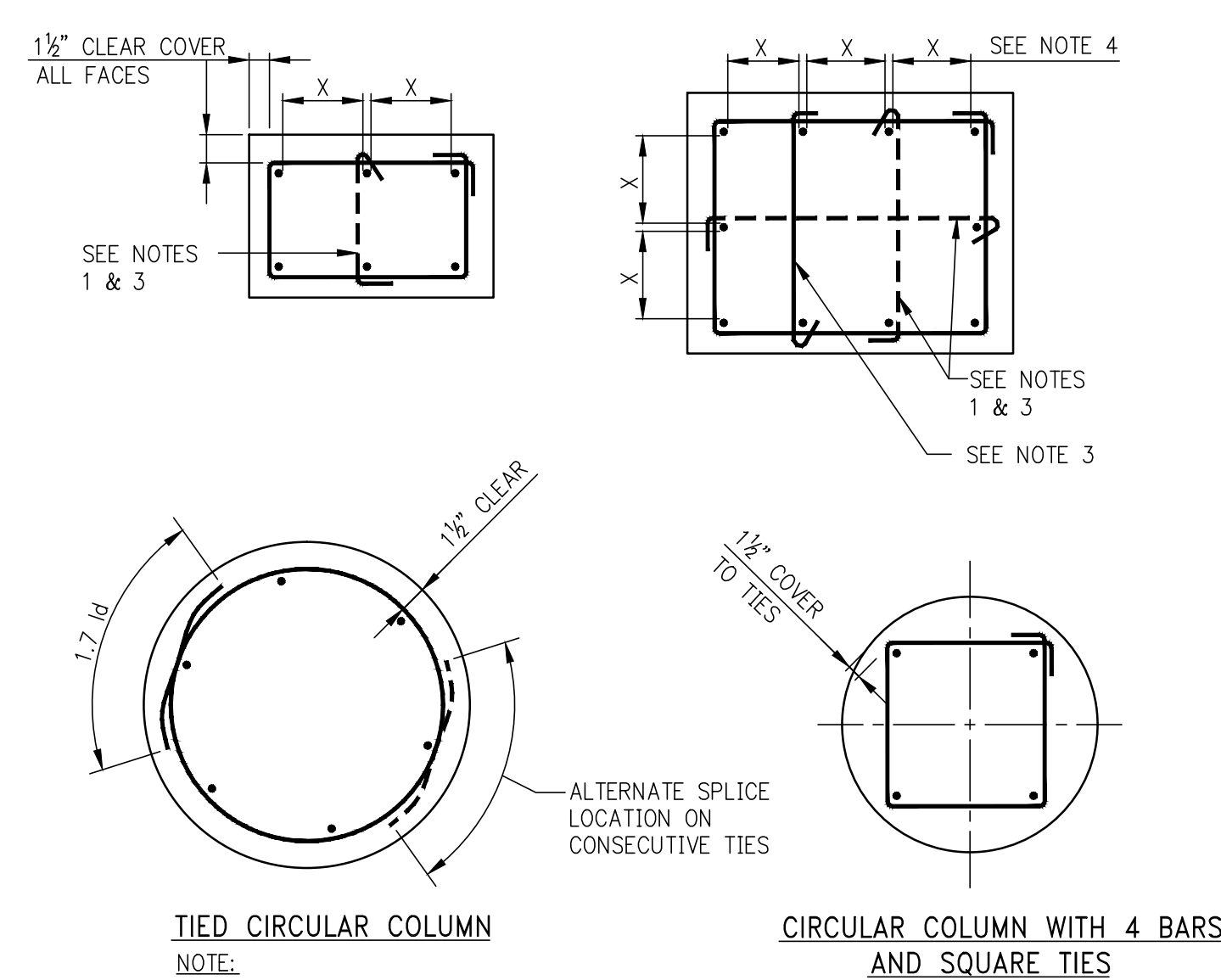


FO-203.01



COLUMN TIE SCHEDULE			
VERTICAL BAR SIZE	SIZE AND SPACING (So) OF TIES IN INCHES (MAX. SPACING NOT TO EXCEED LEAST COL. DIM.)		
	#3	#4	#5
#5	10	—	—
#6	12	—	—
#7	14	—	—
#8	16	16	—
#9	18	18	—
#10	18	20	—
#11	*	22	—
#14	*	24	27
#18	*	34	30

- NOTES:
1. * #3 TIES NOT PERMITTED FOR #11, #14, #18 OR BUNDLED VERTICAL BARS.
2. LOCATE TOP SET OF TIES $S_o/2$ MAX. BELOW THE LOWEST HORIZONTAL REINFORCEMENT IN SLAB OR DOWEL LAP. PROVIDE STAIRS FRAME FROM SLAB TOP DIRECTION TO COLUMN. TIES MAY TERMINATE NOT MORE THAN 3" BELOW LOWEST REINFORCEMENT IN SHALLOWEST OF SUCH BEAMS.
3. WHERE AREA OF VERTICAL REINFORCEMENT IN LOWER COLUMN IS GREATER THAN THAT OF UPPER COLUMN, PROVIDE REINFORCEMENT AT LEAST EQUAL TO THAT OF UPPER COLUMN.
4. WHERE AREA OF REINFORCEMENT IN LOWER COLUMN IS LESS THAN THAT OF UPPER COLUMN, PROVIDE ADDITIONAL REINFORCEMENT TO MAKE UP THE DIFFERENCE.
5. ALL LAP SPLICES AND EMBEDMENTS TO BE COMPRESSION UNLESS OTHERWISE NOTED IN THE SCHEDULE.
6. WHERE SLAB IS POURED OVER FOUNDATION PRIOR TO COLUMN, VERTICAL REINFORCEMENT AND DOWEL LAP TO START AT TOP OF SLAB.
7. IF OFFSET OF DOWEL IS MORE THAN 6", LAP SHALL BE TO THE COMPRESSION DEVELOPMENT LENGTH OF THE SMALLER BAR.



COLUMN REINFORCEMENT AND
TIES ARRANGEMENT

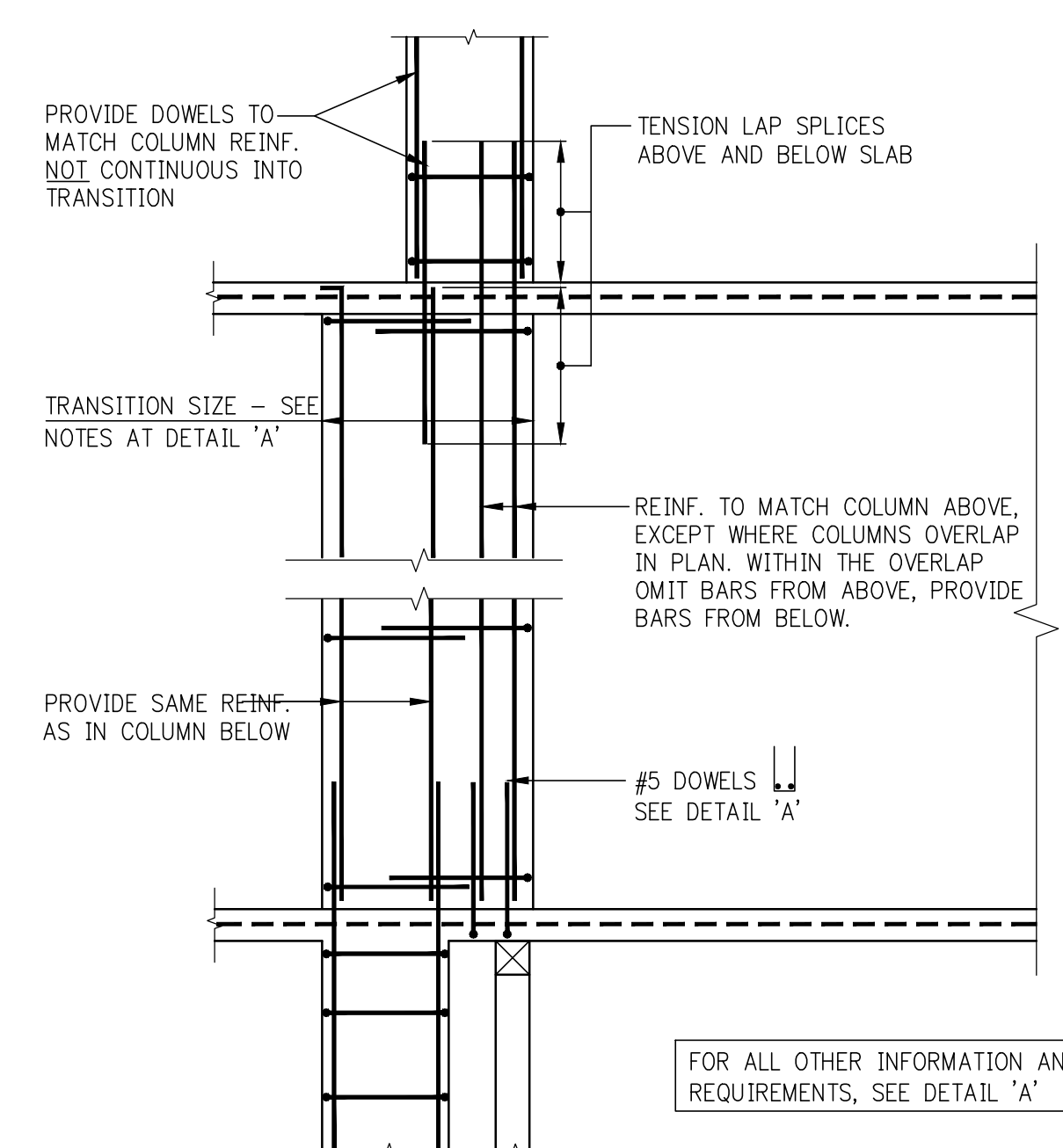
NOTES:

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

DETAIL A – ELEVATION OF
"WALKING" COLUMN TRANSITION

NOTES:

1. FOR DIMENSIONS AND LOCATION OF TRANSITION SEE COLUMN LOCATION PLANS AND/OR COLUMN SCHEDULE.
2. 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.
3. IN ADDITION TO #502 HORIZONTAL HOOPS, PROVIDE HOOPS AND CROSSIES TO SATISFY TIEING REQUIREMENTS OF TYPICAL COLUMN DETAILS FOR ALL VERTICAL REINFORCEMENT.



DETAIL B

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

KEY PLAN



	01/11/2016	REVISED FOUNDATION FOR CONSTRUCTION / DOB SUBMISSION
	01/07/2016	FOUNDATION FOR CONSTRUCTION / DOB SUBMISSION
	10/21/2015	REVISED FOUNDATION SET
	03/06/2015	DOB SUBMISSION
	03/02/2015	FOUNDATION BID SET
	01/23/2015	100% SCHEMATIC DESIGN
Number:	Date	Revision:

OWNER

GID DEVELOPMENT
125 HIGH STREET
HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110

PROJECT:
RIVERSIDE CENTER BUILDING 1
NEW YORK, NY

EXECUTIVE ARCHITECT:

Goldstein, Hill & West Architects, LLP
11 Broadway, Suite 1700
New York, NY 10004
Tel (212) 213-8007 Fax (212) 686-1754

DESIGN ARCHITECT

KPF
KOHN PEDERSEN FOX
ASSOCIATES PC
11 West 42nd Street
New York, NY 10036
Tel: (212) 977-6500 Fax: (212) 956-2526

STRUCTURAL ENGINEER

**WSP BUILDING STRUCTURES
CONSULTING ENGINEERS**

228 East 45th St, 3rd Floor
New York, NY 10017

Tel: (212) 687-9888 Fax: (646) 487-5501

WSP BUILDING SYSTEMS
CONSULTING ENGINEERS
512 Seventh Avenue
New York, NY 10018
Tel: (212) 532-9600

DDB STAMPS & SIGNATURES:

UWG TITLE

TYPICAL FOUNDATION
DETAILS 5

SEAL & SIGNATURE

	04/03/2015
--	------------

DATE: _____

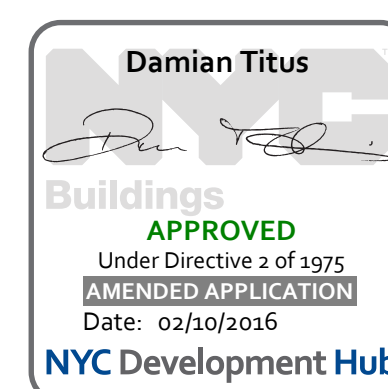
PROJECT #: 1490102

SCALE: N.T.S.

2000

FO-204.01

Page 46 of 60



A cross-sectional diagram of a reinforced concrete slab. The top line is labeled 'SURFACE OF CONCRETE'. Below this, a horizontal line represents the 'CLEAR COVER'. Underneath the cover, there are two layers of reinforcement bars, represented by circles with diagonal hatching. The top layer is labeled 'OUTER LAYER (TABLE 1A OR 1C)' and the bottom layer is labeled 'INNER LAYER (TABLE 1B OR 1D)'. The distance between the centers of two adjacent bars in the outer layer is indicated by a dimension line and labeled 'CENTER TO CENTER SPACING OF BARS'.

1. REINFORCEMENT IS UNCOATED, WITH Fy=60,000 PSI.
2. CONCRETE IS NORMAL WEIGHT (144-156#/C.F.)
3. FOR "TOP" BAR DEVELOPMENT LENGTHS ("TOP" IS DEFINED BY ACT 318 AS HAVING MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW THE BAR), TABULATED DEVELOPMENT LENGTHS MUST BE MULTIPLIED BY 1.4
4. LENGTHS TABULATED MUST BE MULTIPLIED BY THE FOLLOWING MODIFICATION FACTORS:
 - a. LIGHTWEIGHT CONCRETE1.3
 - b. EPOXY-COATED BARS:
 - 1) BARS WITH COVER < 3in. OR
WITH CLEAR SPACING < 6in. - 1.5 FOR BOTTOM &
VERTICAL BARS.
 - 2) ALL OTHER CONDITIONS1.2
- FOR EPOXY-COATED "TOP" BARS THE MAXIMUM FOR COMBINED FACTORS = 1.7
5. WHERE TENSION DEVELOPMENT LENGTH (l_d) IS REQUIRED ON PLANS OR IN DETAILS, SEE TENSION DEVELOPMENT LENGTH TABLES.
6. CLASS A LAP SPLICED LENGTHS ARE EQUAL TO TENSION DEVELOPMENT LENGTHS. (SEE TABLES FOR TENSION DEVELOPMENT LENGTHS) - SEE APPROPRIATE MODIFICATION FACTORS TO CLASS A SPLICED LENGTHS.

Technical drawing of a 90-degree elbow. The drawing includes the following labels and dimensions:

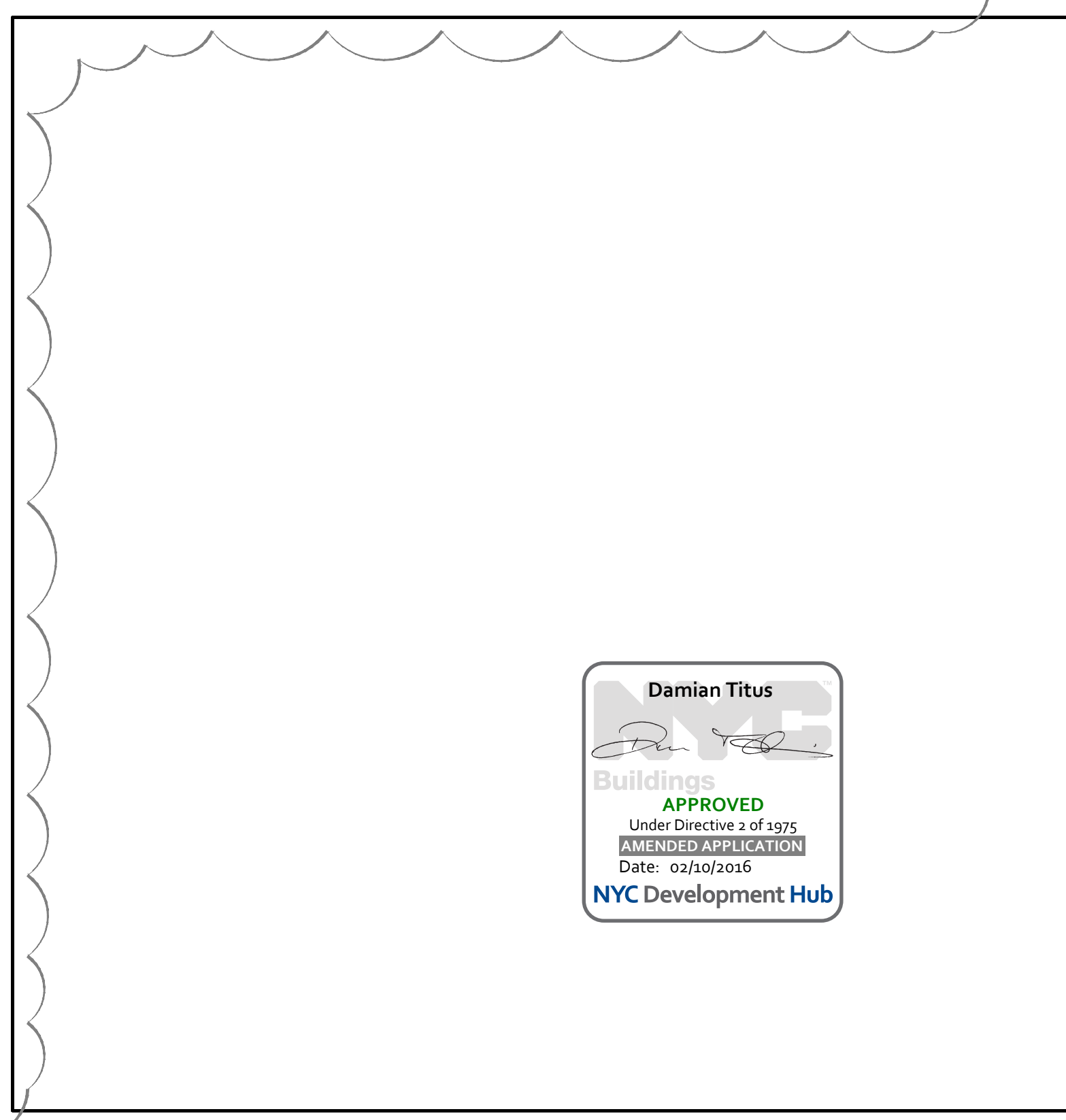
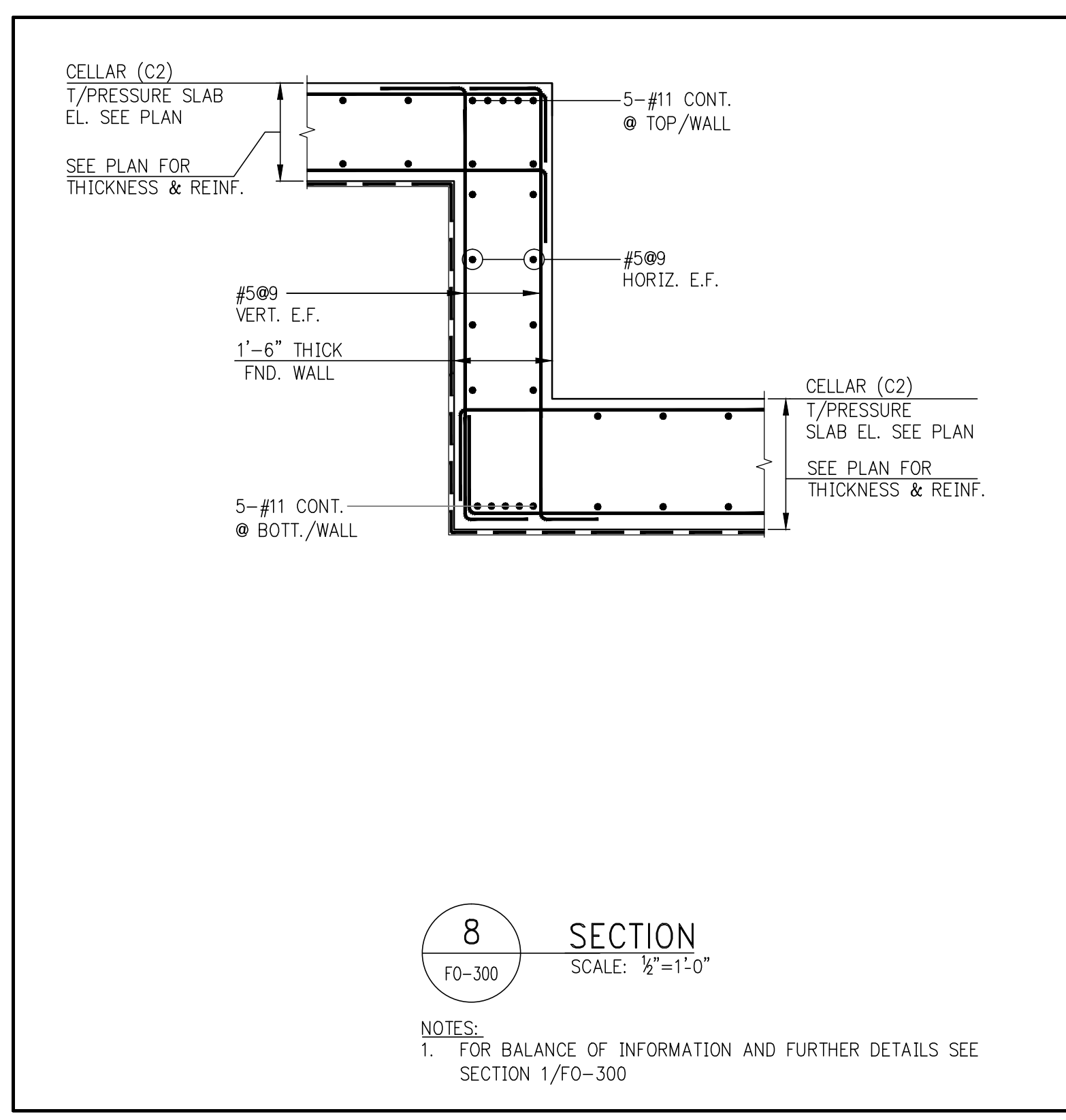
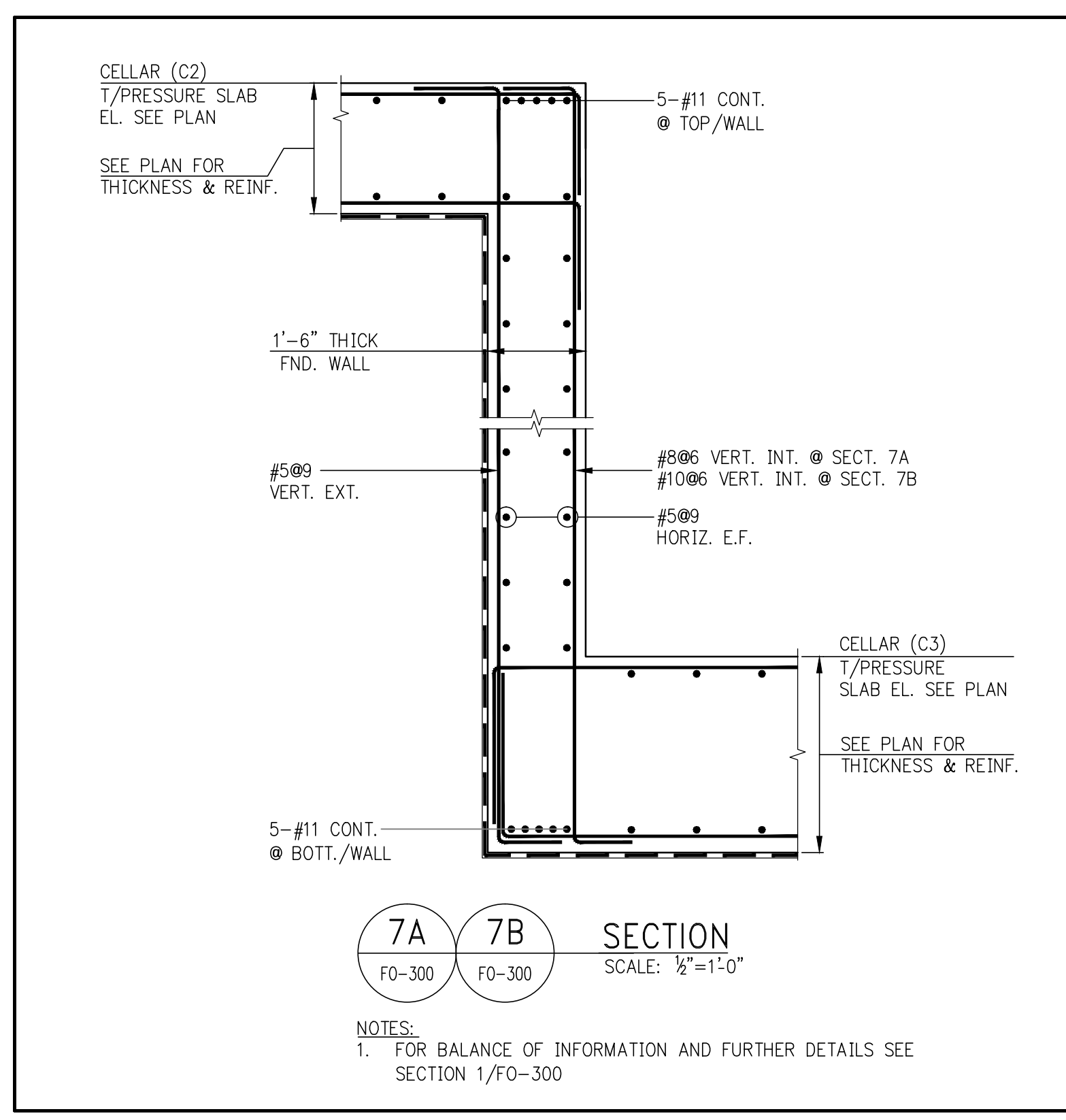
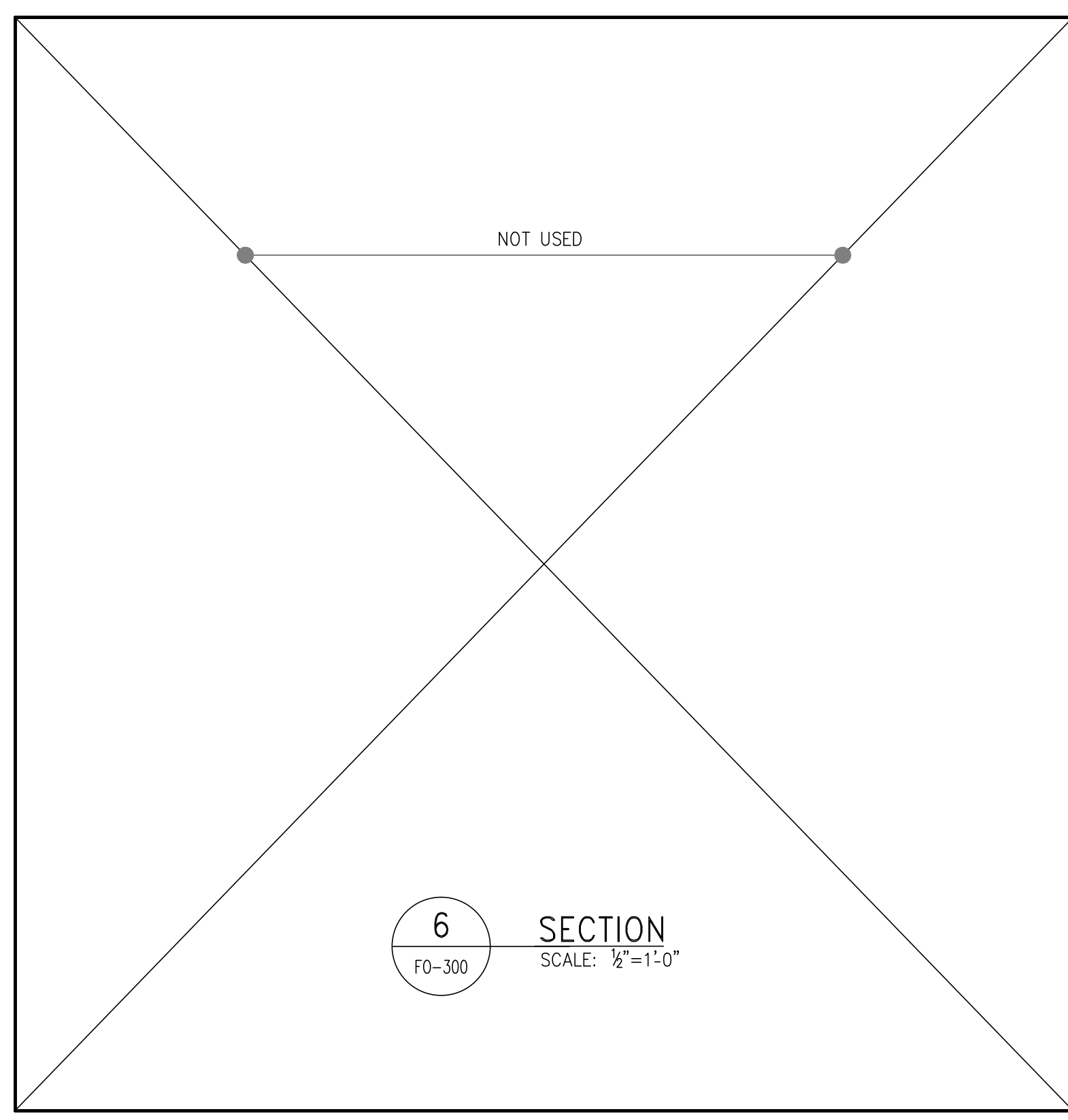
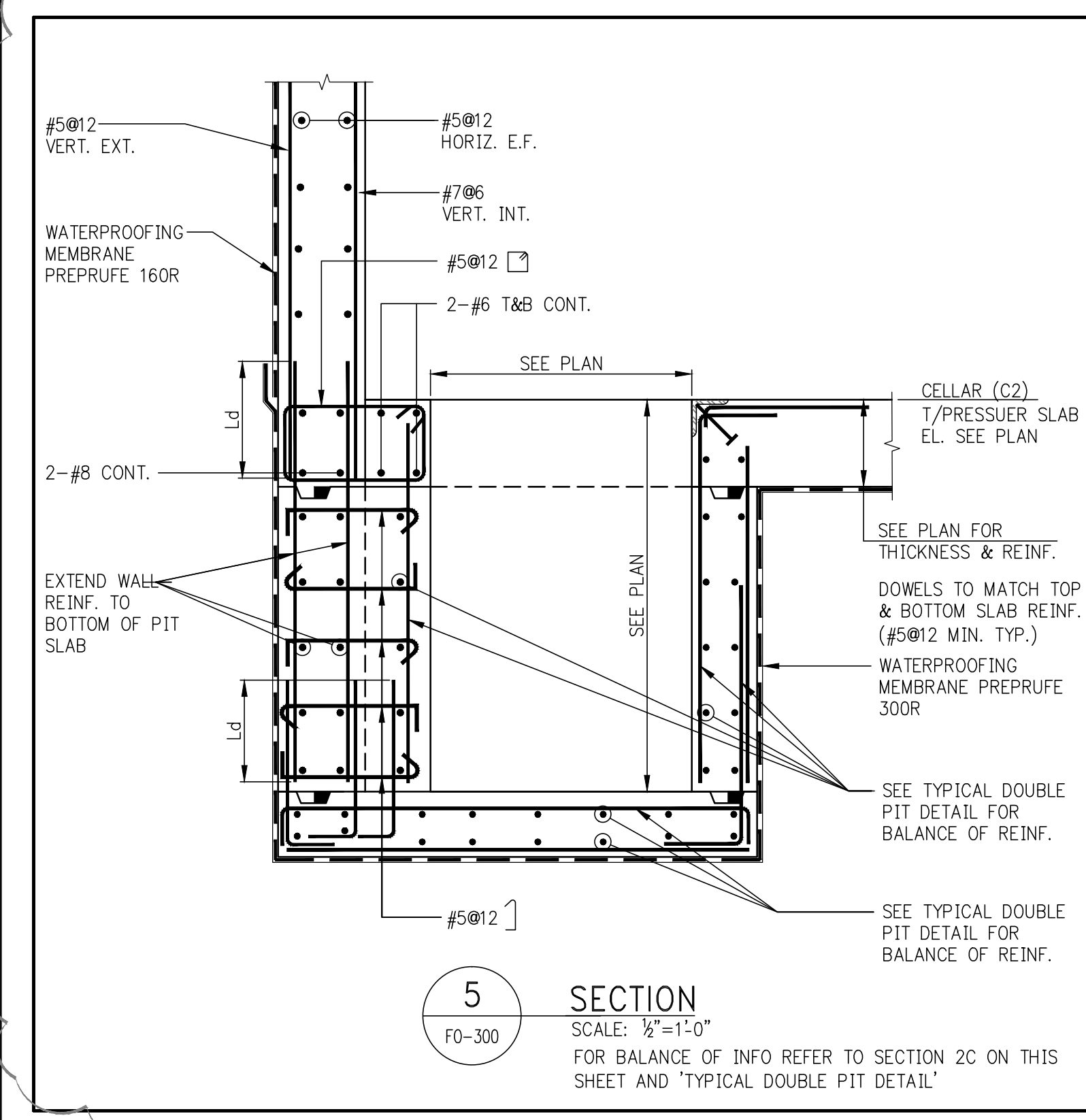
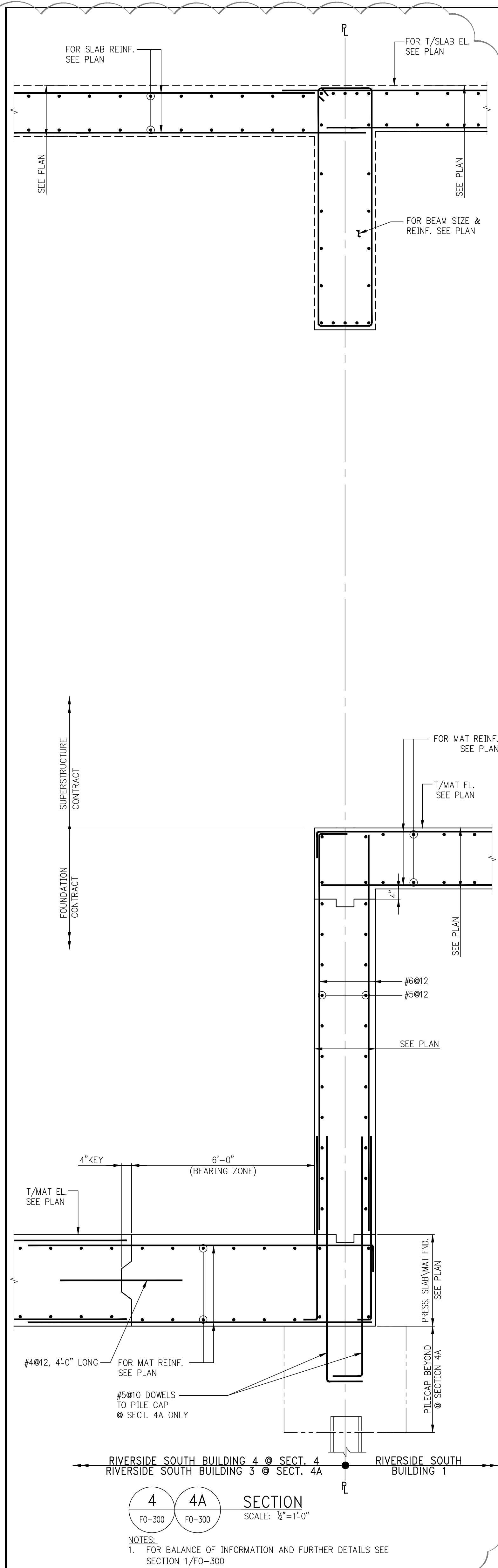
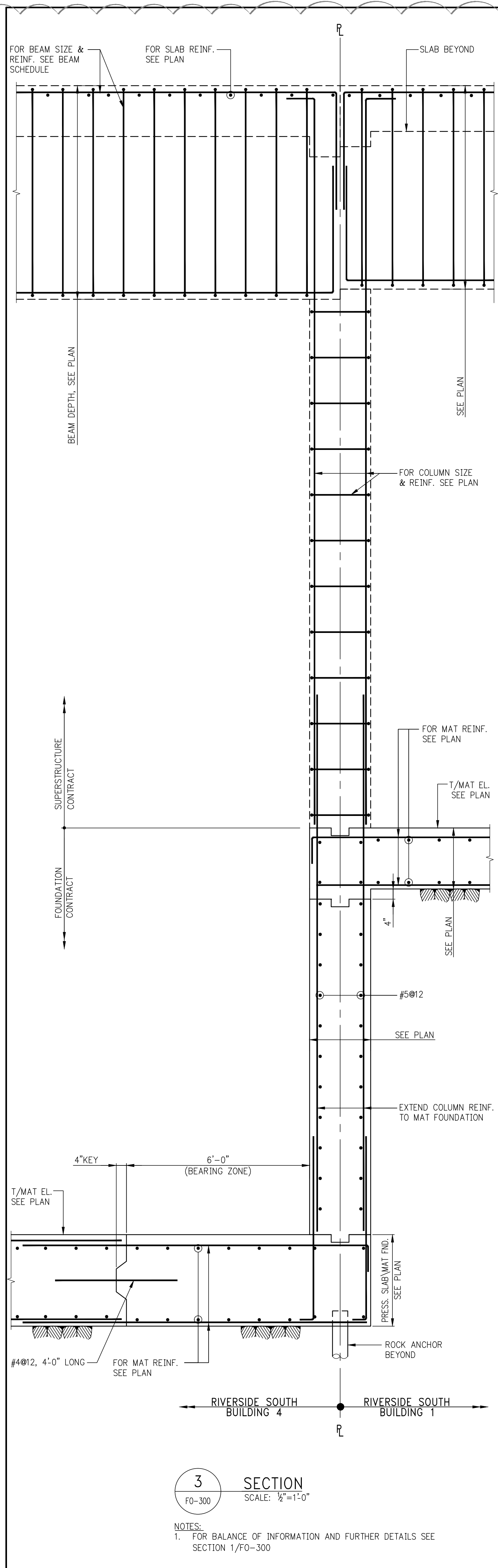
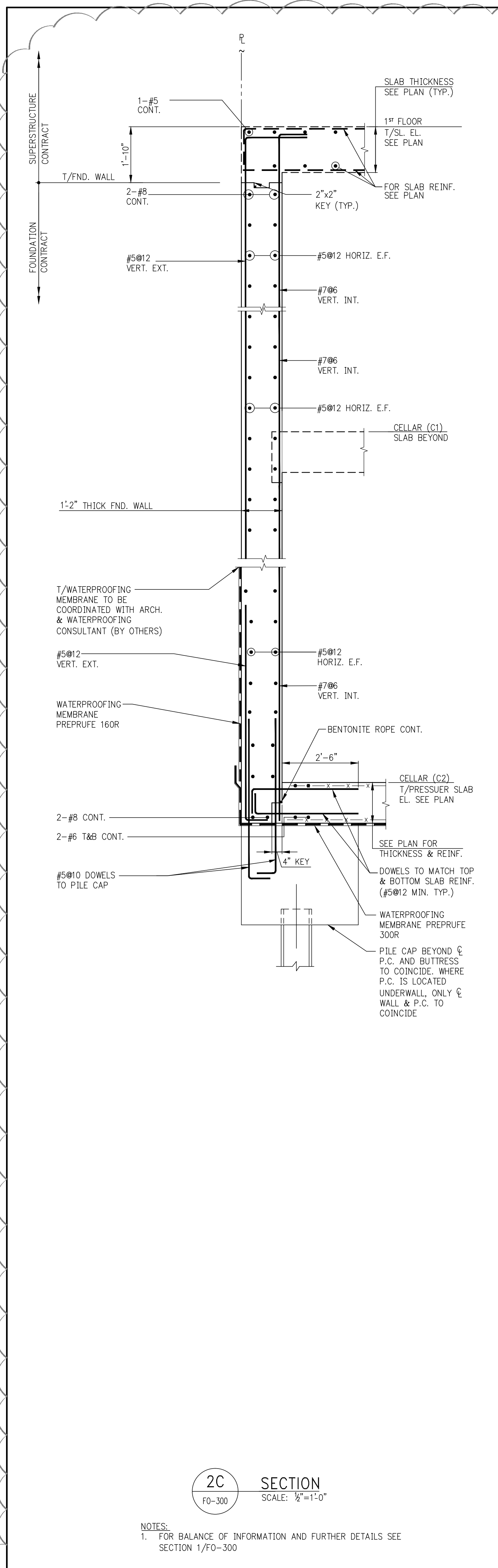
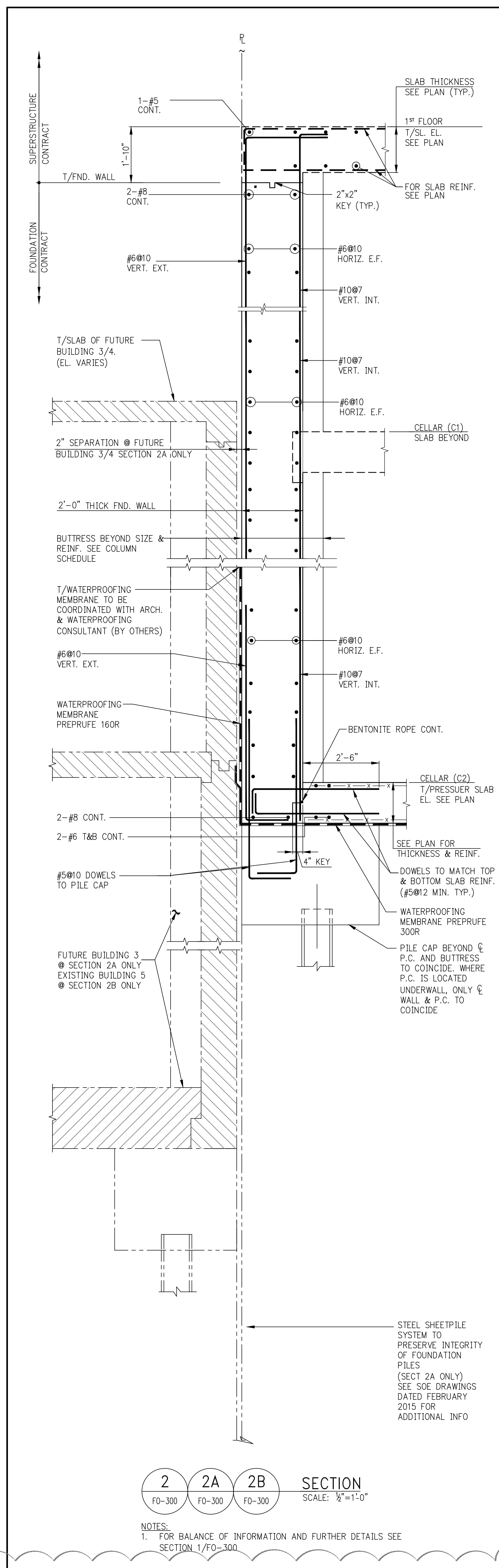
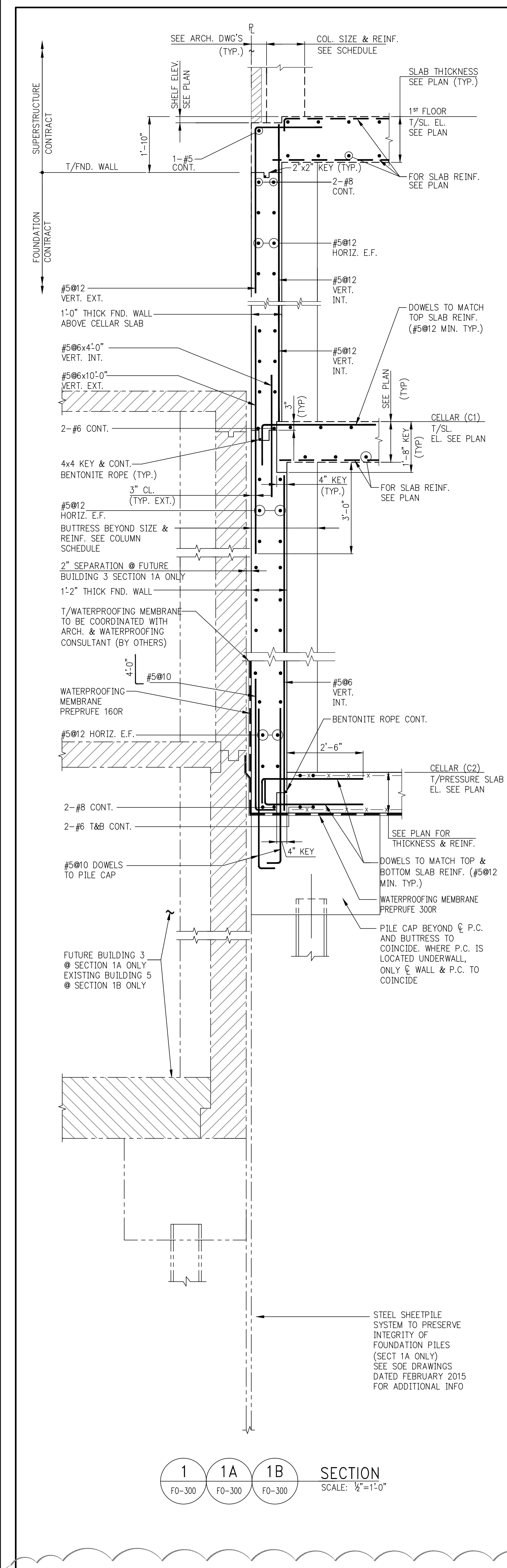
- Labels:**
 - 2" MIN. END COVER
 - CRITICAL SECTION
 - END VIEW
 - TOP VIEW
 - 2 1/2" MIN. SIDE COVER
- Dimensions:**
 - 1dth (throat thickness)
 - $D = 6 \text{ db UP } \#10 \text{ \#8}$
 - $D = 8 \text{ db FOR } \#7, \#10, \#11$
 - $D = 10 \text{ db FOR } \#14, \text{ \#18}$
 - ϕ (radius)

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

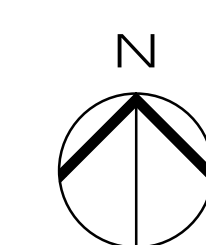
	01/11/2016	REVISED FOUNDATION FOR CONSTRUCTION / DOB SUBMISSION
	01/07/2016	FOUNDATION FOR CONSTRUCTION / DOB SUBMISSION
Memo	2.	A

_____ DWS AG





KEY PLAN



	01/11/2016	REVISED FOUNDATION FOR CONSTRUCTION / DOB SUBMISSION
	01/07/2016	FOUNDATION FOR CONSTRUCTION DOB SUBMISSION
	12/11/2015	OWNER REQUESTED FND. REVISIONS
	10/21/2015	REVISED FOUNDATION SET
	03/06/2015	DOB SUBMISSION
	03/02/2015	FOUNDATION BID SET
	01/23/2015	100% SCHEMATIC DESIGN
Number:	Date:	Revision:

OWNER:
GID DEVELOPMENT
125 HIGH STREET
HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110

PROJECT:
RIVERSIDE CENTER BUILDING 1
NEW YORK, NY

EXECUTIVE ARCHITECT:
GHWA
Goldstein, Hill & West Architects, LLP
11 Broadway, Suite 1700
New York, NY 10004
Tel (212) 213-8007 Fax (212) 686-1754

DESIGN ARCHITECT:
KPF
KOHN PEDERSEN FOX
11 West 42nd Street
New York, NY 10036
Tel: (212) 977-6500 Fax: (212) 956-2526

STRUCTURAL ENGINEER:
WSP BUILDING STRUCTURES
CONSULTING ENGINEERS
228 East 45th St, 3rd Floor
New York, NY 10017
Tel: (212) 687-9888 Fax: (646) 487-5301

MEP/FP ENGINEER:
WSP BUILDING SYSTEMS
CONSULTING ENGINEERS
512 Seventh Avenue
New York, NY 10018
Tel: (212) 532-9600

FOR STAMPS & SIGNATURES

DATE TITLE

FOUNDATION SECTIONS 1

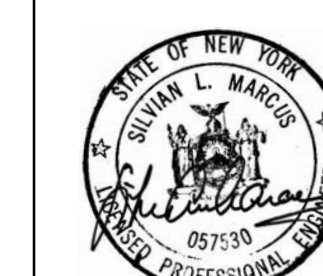
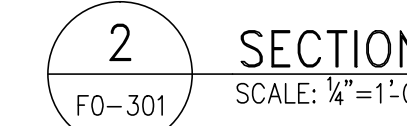
SEAL & SIGNATURE: DATE: 01/23/2015

PROJECT # 1490102

SCALE: N.T.S.

FO-300.01

Sheet 17 of 23



087530
INTERNATIONAL ENGINEERING

FO-301.0

1. DANG NQ