

EXISTING 32-STORY BUILDING w/ ONE BASEMENT ON PILES

WEST STREET

MURRAY STREET

EXISTING 32-STORY BUILDING w/ ONE BASEMENT ON PILES

CELLAR/ FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

LEGEND: (ALL LOADS LISTED BELOW ARE SERVICE/UNFACTORED)
 ○ DENOTES 36" DIA. 3000T COMPRESSION, 700T TENSION, 74 KIP LATERAL CAPACITY (FIXED HEAD), PILE.
 ○ DENOTES 20" DIA. 500T COMPRESSION, 250T TENSION, 22 KIP LATERAL CAPACITY (FIXED HEAD), PILE.
 ⊕ DENOTES ROCK ANCHOR DESIGNED FOR 250 KIPS, SERVICE UPLIFT; SEE DETAIL 6/70-108.

TOP OF SLAB ELEVATION U.O.N.	EL. -4'-2"
SLAB THICKNESS U.O.N.	20"
SLAB CONCRETE STRENGTH U.O.N.	f_c = 10,000 PSI
SLAB BASIC CONTINUOUS BOTTOM BARS U.O.N.	#7@12" O.C. EACH WAY
SLAB BASIC CONTINUOUS TOP BARS U.O.N.	#7@12" O.C. EACH WAY

WATERPROOFING REFERENCE NOTES:
 1. NOTE THAT WATERPROOFING IS BY OTHERS AND IS ONLY SHOWN FOR CONTRACTOR'S REFERENCE.
 2. WATERPROOFING SHOWN IN SECTIONS PROVIDED WHEN ILLUSTRATES THE GENERAL DESIGN INTENT FOR BELOW-GRADE WATERPROOFING OF THE EXTERIOR PERIMETER OF BUILDING FOUNDATION COMPONENTS. THE CONTRACTOR SHALL COMPLETELY WATERPROOF THE EXTERIOR PERIMETER AND UNDERSE SURFACES OF ALL FOUNDATIONS, PAVILION CAPS, PITS, WALLS, SLABS AND OTHER PROTECTED FOUNDATION COMPONENTS. THE SITE ELEVATION WITHIN WAPPED BLOOD ZONE WATERPROOFING SHALL BE INSTALLED TO RESIST COMPLETE SATURATION OF THE WATERPROOFING SURFACE AND HYDROSTATIC PRESSURE UP TO THE FLOOD ELEVATION PLUS ONE FOOT, OF 10' EL. 12'.
 3. THE WATERPROOFING SHALL BE PROVIDED BY THE CONTRACTOR AS A FORMAL SUBMITTAL TO THE CONSTRUCTION MANAGER FOR REVIEW BY THE OWNER'S CONSULTANTS. THE WATERPROOFING MATERIALS AND DETAILS SHALL BE IN CONFORMANCE WITH THE MATERIAL MANUFACTURER'S REQUIREMENTS AND THE PROJECT TECHNICAL SPECIFICATIONS FOR FOUNDATION WATERPROOFING AS PREPARED BY THE GEOTECHNICAL ENGINEER.
 4. FOR WATERPROOFING OF UNDERSE SURFACES, THE CONTRACTOR SHALL PROVIDE A LEAN CONCRETE MORTAR TO ACT AS A SURFACE PREPARE FOR TEMPORARY SUPPORT OF THE WATERPROOFING MEMBRANE PRIOR TO PLACEMENT OF SLAB/PAVILION CONCRETE. UNLESS OTHERWISE APPROVED BY THE OWNER'S CONSULTANTS AND THE WATERPROOFING MATERIAL SUPPLIER, THE CONTRACTOR SHALL PROVIDE A WARRANTY ON BOTH THE WATERPROOFING MATERIALS AND WATERPROOFING INSTALLATION. THE WARRANTY DURATION SHALL BE IDENTIFIED AT THE TIME OF BIDDING.
 5. WATERPROOFING SHOWN ON THESE DRAWINGS FOR INTERIOR SURFACES OF BELOW-GRADE FOUNDATION COMPONENTS, PITS, AND TANKS SHALL NOT BE CONSIDERED AS PART OF THE FOUNDATION CONTRACT WORK, AND SHALL BE PERFORMED BY OTHERS.

DRAWING NOTES:
 1. FOR GENERAL NOTES SEE DRAWING 5-001.
 2. FOR FOUNDATION AND DETAILS SEE DRAWING FO-104.
 3. CONCRETE STRENGTH SHALL BE:
 PILE CAPS AND GRADE BEAMS: 10000 PSI U.O.N.
 COLUMNS AND SHEAR WALLS AT CELLAR: 10000 PSI U.O.N.
 4. DETAILER TO CHECK ALL BAR CLEARANCES.
 5. FOR ALL CAST-IN-PLACE CONCRETE, SEE DRAWING 10-101.
 6. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ALL WATERPROOFING AND DAMP-PROOFING REQUIREMENTS.
 7. ADJACENT BUILDINGS ARE SHOWN FOR INFORMATION ONLY.
 8. REFER TO PROJECT GEO-TECHNICAL ENGINEERING REPORT FOR ADDITIONAL INFORMATION.
 9. SEE ARCHITECTURAL DRAWINGS FOR DRAIN EXTENTS.
 10. PROVIDE ADDITIONAL BOTTOM BARS:
 11. AT ALL CORNERS AND TOP BARS:
 12. FOR ALL CAST-IN-PLACE CONCRETE, SEE DRAWING 10-101.
 13. BENCH MARK REFERS TO ELECTRICAL/PLUMBING SERVICES. REFER TO MEP DWGS. FOR ADDITIONAL INFORMATION, EXTENTS OF TRENCHING SUBJECT TO CHANGE PERIODICALLY. PROVIDE NOTES THAT ALL TRENCHES ARE SHOWN ON PLAN.
 14. ALL OPENINGS IN FOUNDATION WALLS TO BE COORDINATE AND CONFIRMED WITH MEP DWGS.
 15. REFER TO FOUNDATION ELEVATIONS.
 16. REFER TO FOUNDATION ELEVATIONS FOR PLACEMENT OF SUPERSTRUCTURE COLUMN AND SHEAR WALL JOINTS. COLUMNS AND SHEAR WALLS SHALL BE RESPONSIBLE FOR PLACEMENT OF SUPERSTRUCTURE COLUMN AND SHEAR WALL JOINTS. STRUCTURE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACEMENT OF PAVILION ELEVATION CORE.

THE 101 MURRAY STREET PROJECT SITE WAS PREVIOUSLY OCCUPIED BY BUILDINGS SUPPORTED BY PILES. EXTENSIVE ARCHIVAL DRAWINGS OF THE EXISTING AND SURROUNDING BUILDINGS DATED HAVE BEEN LOCATED AND ARE AVAILABLE FROM THE SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE APPROPRIATE MEANS AND METHODS TO ADEQUATELY WORK AROUND EXISTING OBSTRUCTIONS TO CONSTRUCT THE NEW FOUNDATIONS INDICATED ON THE STRUCTURAL DRAWINGS.

KEY PLAN

01/23/15 DOB ISSUE
 01/15/15 DOCUMENT ISSUE NO. 5
 01/08/15 DOCUMENT ISSUE NO. 4
 11/21/14 DOCUMENT ISSUE NO. 2
 11/07/14 DOCUMENT ISSUE NO. 1

Number: Date: Revision:

OWNER: HENRY V MURRAY SENIOR LLC
 299 Park Avenue
 New York, NY 10171

PROJECT: 101 MURRAY STREET
 New York, NY 10007

EXECUTIVE ARCHITECT: **G+H+W**
 Goldstein, Hill & West Architects, LLP
 11 Broadway, Suite 1700, New York, NY 10006
 Tel: 212.213.8077 Fax: 212.696.1764

DESIGN ARCHITECT: **KPF**
 KOHN PEDERSEN FOX ASSOCIATES PC
 ARCHITECTS & PLANNING CONSULTANTS
 11 West 42nd Street, New York, NY 10036
 Tel: 212.977.6500 Fax: 212.966.2926

INTERIOR DESIGNER: **rockwellgroup**
 5 Union Square West, New York, NY 10003
 Tel: 212.463.0034 Fax: 212.463.0335

INTERIOR DESIGNER: **MR**
 ARCHITECTURE + DECOR
 245 West 29th Street, New York, NY 10001
 Tel: 212.868.8500 Fax: 212.868.8420

LANDSCAPE ARCHITECT: **HOLLANDER**
 Landscape Architects
 200 Park Avenue South, Suite 1200, New York, NY
 Tel: (212) 473.0620 projects@hollandersdesign.com

LIGHTING DESIGNER: **ONELUXstudio**
 158 West 29th Street, New York, NY 10001
 Tel: 212-201-5790, www.oneluxstudio.com

STRUCTURAL ENGINEER: **DESIMONE**
 18 West 18th Street, 10th Floor, New York, NY 10011
 Tel: 212.522.2211 Fax: 212.481.6108

MEPP ENGINEER: **Carabini**
 A S D C I A T E S
 CONSULTING ENGINEERS
 2 Pennsylvania Plaza, New York, NY 10121
 Tel: 212.615.3500 Fax: 212.615.3700

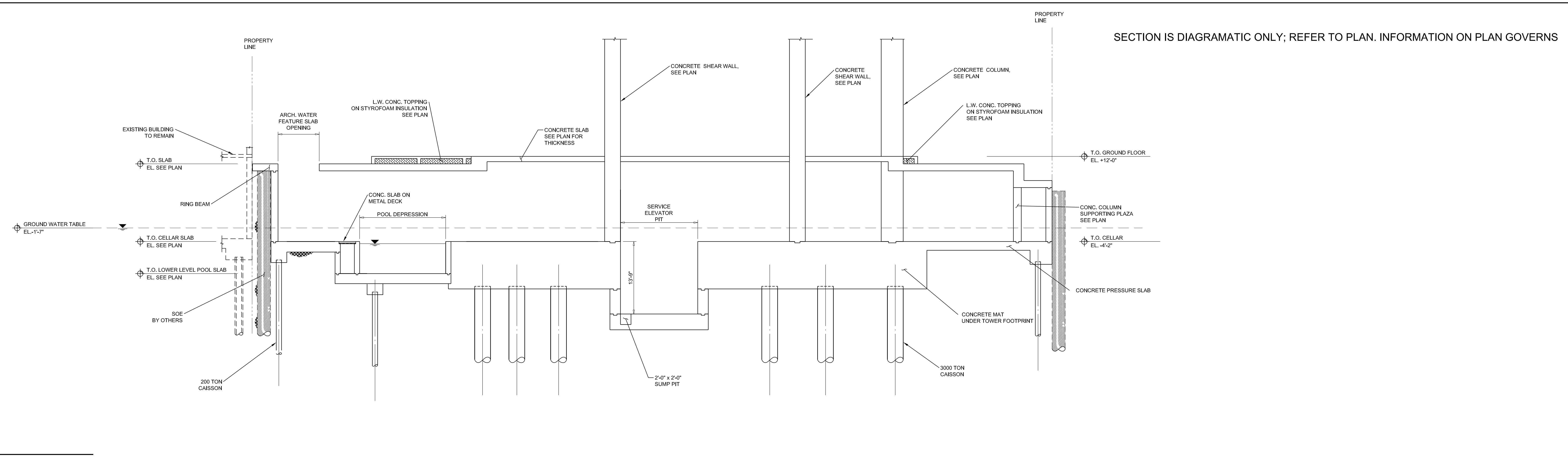
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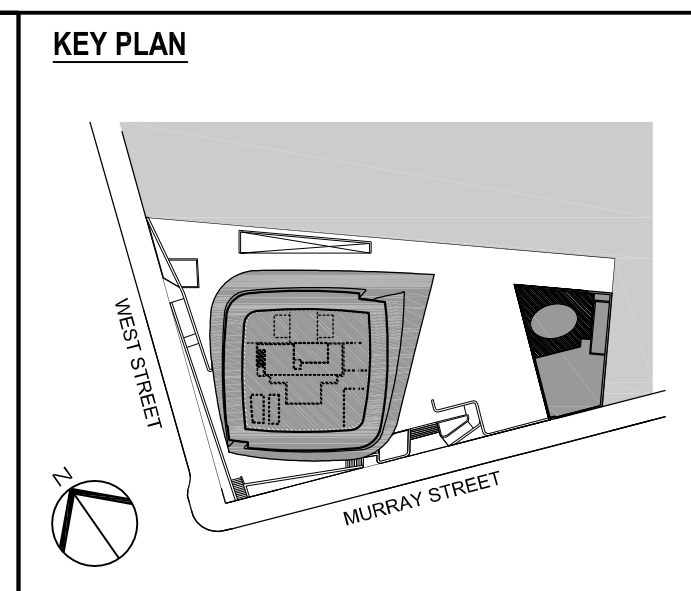
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 FOUNDATION PLAN**

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

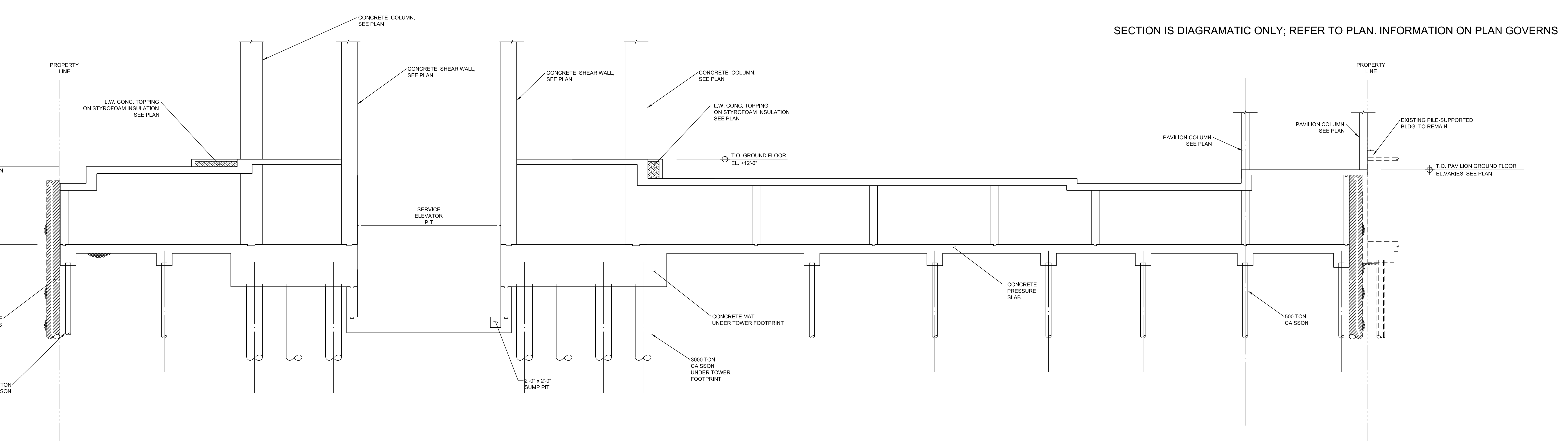
DATE: 01/15/15
 PROJECT #.: 14077.00
 SHEET #.: AS NOTED
FO-102.00
 DWG. NO. OF



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



01/23/15	DOB ISSUE
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2 SECTION
SCALE: 1/8"=1'-0"

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PROJECT:
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New York, NY 10007

EXECUTIVE ARCHITECT:
GHW
Goldstein, Hill & West Architects, LLP
11 Broadway, Suite 1700, New York, NY 10004
Tel: 212.213.8007 Fax: 212.696.1754

DESIGN ARCHITECT:
KPF
KOHN PEDERSEN FOX ASSOCIATES PC
ARCHITECTS & PLANNING CONSULTANTS
11 West 42nd Street, New York, NY 10036
Tel: 212.977.6500 Fax: 212.956.2526

INTERIOR DESIGNER:
rockwellgroup
5 Union Square West, New York, NY 10003
Tel: 212.463.0034 Fax: 212.463.0335

INTERIOR DESIGNER:
MR
ARCHITECTURE + DECOR
245 West 29th Street, 10th Floor, New York, NY 10001
Tel: 212.969.9300 Fax: 212.969.9420

LANDSCAPE ARCHITECT:
HOLLANDER design
Landscape Architects
200 Park Avenue South, Suite 1200, New York, NY
Tel: (212) 473.0620 projects@hollanderdesign.com

LIGHTING DESIGNER:
ONELUXstudio
158 West 29th Street, New York, NY 10001
Tel: 212-201-5790, www.oneluxstudio.com

STRUCTURAL ENGINEER:
DESIMONE
18 West 18th Street, 10th Floor, New York, NY 10011
Tel: 212.592.2211 Fax: 212.481.6108

MERFP ENGINEER:
Casertini
A S S O C I A T E S
CONSULTING ENGINEERS
2 Pennsylvania Plaza, New York, NY 10121
Tel: 212.615.3500 Fax: 212.615.3700

DOB ESCAN:

DOB STAMPS & SIGNATURES:

DWG TITLE:
BUILDING SECTIONS

SEAL & SIGNATURE: 	DATE: 01/15/15
PROJECT #: 14077.00	DATE: 03/05/2015
AS NOTED	FO-103.00
DWG NO.	OF

Shaouqat Shaikh

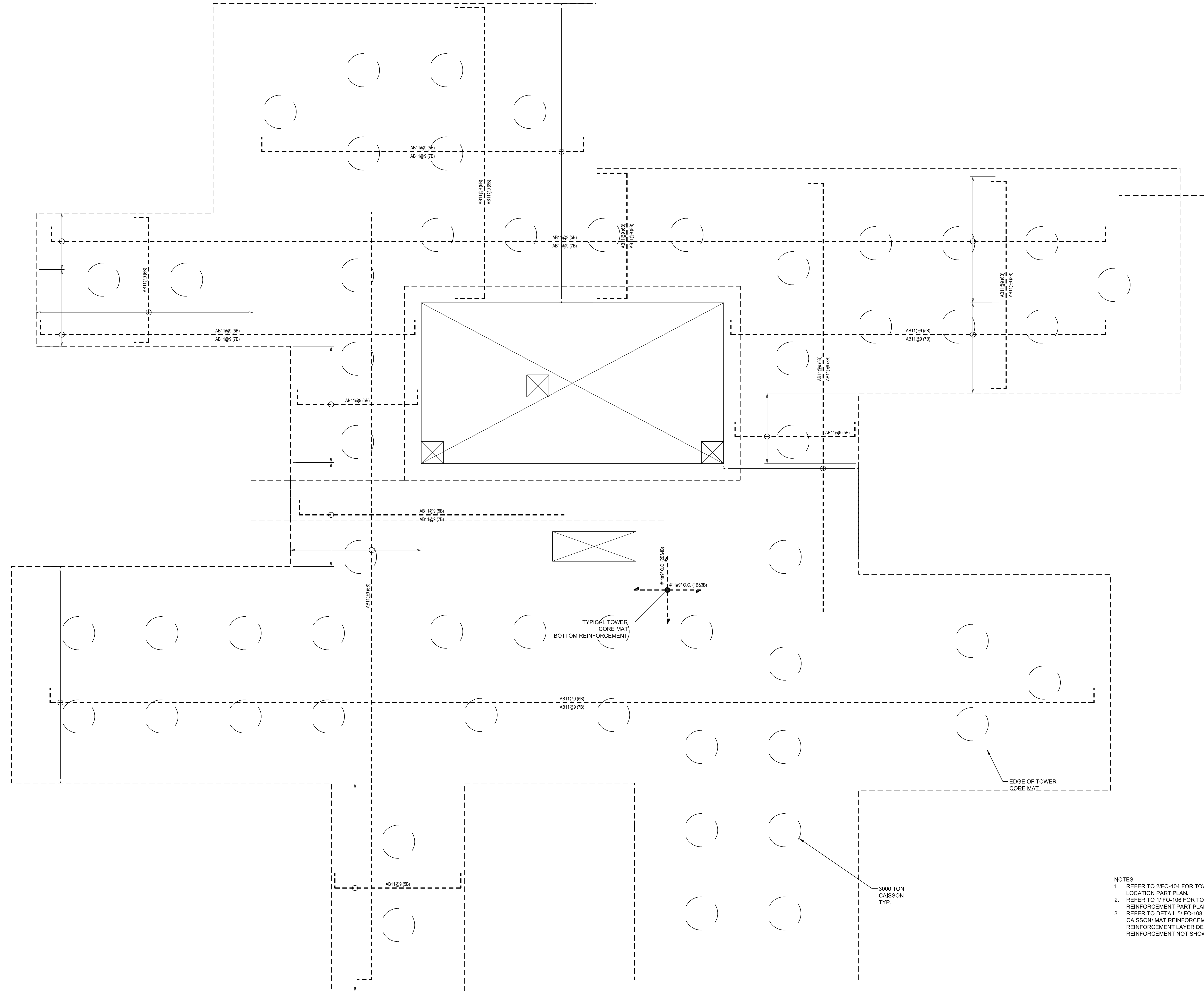
Buildings
APPROVED
Under Directive 2 of 1975
Date: 03/05/2015
NYC Development Hub

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

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

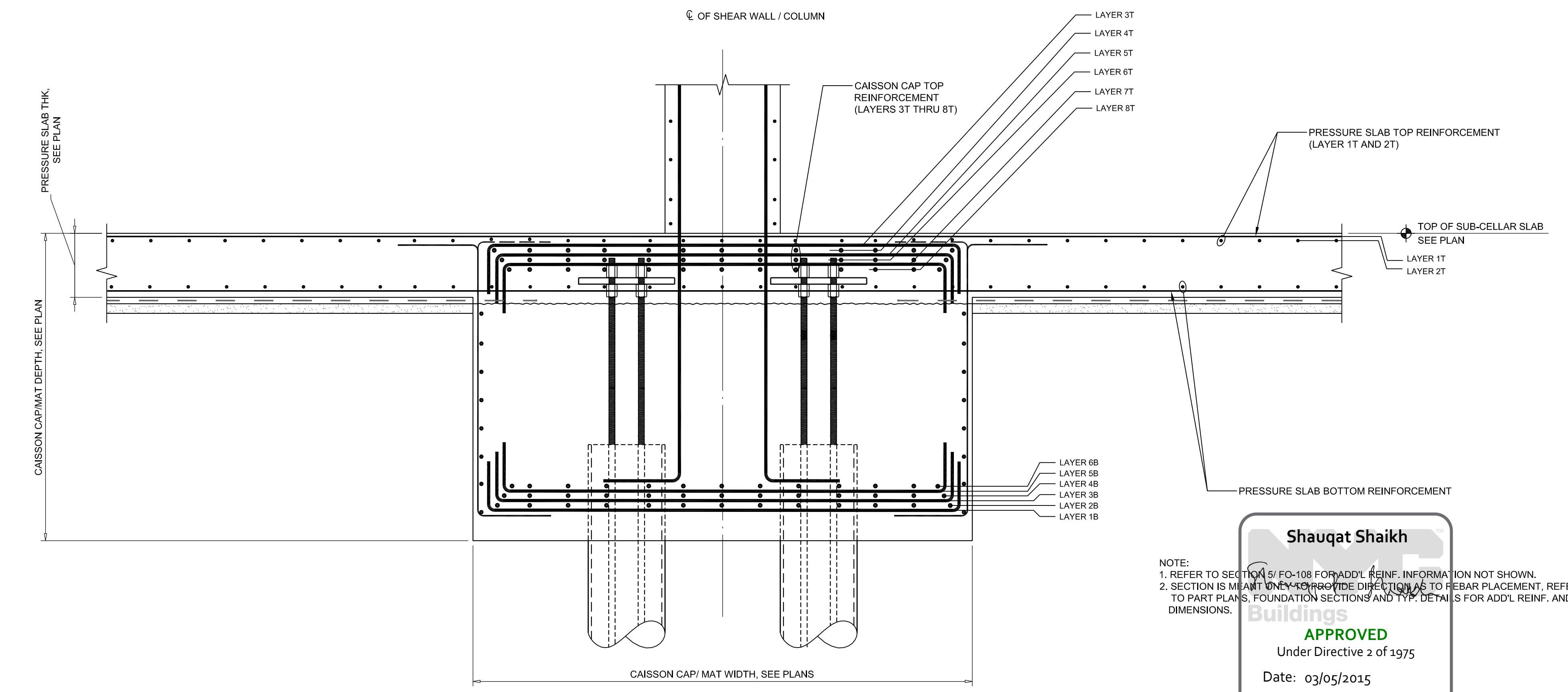
X SECTION - X
SCALE: 1/8"=1'-0"

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



1 TOWER CORE MAT-BOTTOM REINFORCEMENT PART PLAN
SCALE: 1/4"=1'-0"

NOTES:
1. REFER TO 2/FO-104 FOR TOWER CORE MAT PILE LOCATION PART PLAN.
2. REFER TO 1/FO-136 FOR TOWER CORE MAT TOP REINFORCEMENT PART PLAN.
3. REFER TO DETAIL 5/FO-106 FOR TYPICAL CAISSON MAT REINFORCEMENT DETAIL SHOWING REINFORCEMENT LAYER DESIGNATION AND ADDL. REINFORCEMENT NOT SHOWN.



2 TYPICAL MAT REBAR PLACEMENT SECTION
SCALE: 1/2"=1'-0"

NOTE:
1. REFER TO SECTION 5/FO-106 FOR ADDL. REINF. INFORMATION NOT SHOWN.
2. SECTION IS MEANT TO PROVIDE DIRECTION TO REBAR PLACEMENT. REFER TO PART PLANS, FOUNDATION SECTIONS AND TYP. DETAILS FOR ADDL. REINF. AND DIMENSIONS.

Shauqat Shaikh
APPROVED
Under Directive 2 of 1975
Date: 03/05/2015
NYC Development Hub

KEY PLAN

01/23/15 DOB ISSUE
01/15/15 DOCUMENT ISSUE NO.5
01/08/15 DOCUMENT ISSUE NO.4
11/21/14 DOCUMENT ISSUE NO.2
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HENRY V MURRAY SENIOR LLC
299 Park Avenue
New York, NY 10171

PROJECT: 101 MURRAY STREET
New York, NY 10007

EXECUTIVE ARCHITECT:
GHWAA
Goldstein, Hill & West Architects, LLP
11 Broadway, Suite 1700, New York, NY 10004
Tel: 212.213.8007 Fax: 212.696.1754

DESIGN ARCHITECT:
KPF
KOHN PEDERSEN FOX ASSOCIATES PC
ARCHITECTS & PLANNING CONSULTANTS
11 West 42nd Street, New York, NY 10036
Tel: 212.977.6500 Fax: 212.956.2526

INTERIOR DESIGNER:
rockwellgroup
5 Union Square West, New York, NY 10003
Tel: 212.463.0034 Fax: 212.463.0335

INTERIOR DESIGNER:
MR
ARCHITECTURE + DECOR
245 West 29th Street, 10th Floor, New York, NY 10001
Tel: 212.989.9200 Fax: 212.989.9420

LANDSCAPE ARCHITECT:
HOLLANDER design
Landscape Architects
200 Park Avenue South, Suite 1200, New York, NY
Tel: (212) 473.0620 projects@hollanderdesign.com

LIGHTING DESIGNER:
ONELUXstudio
158 West 29th Street, New York, NY 10001
Tel: 212-201-5790, www.oneluxstudio.com

STRUCTURAL ENGINEER:
DESIMONE
18 West 18th Street, 10th Floor, New York, NY 10011
Tel: 212.532.2211 Fax: 212.481.6108

MERFP ENGINEER:
Casertini
A S S O C I A T E S
CONSULTING ENGINEERS
2 Pennsylvania Plaza, New York, NY 10121
Tel: 212.615.3500 Fax: 212.615.3709

DOB ESCAN:

DOB STAMPS & SIGNATURES:

DWG TITLE:
FOUNDATION: TOWER CORE MAT BOTTOM REINFORCEMENT PART PLAN

SEAL & SIGNATURE:
DATE: 01/15/15
PROJECT #: 14077.00
E. AS NOTED
FO-105.00
DWG. NO. OF

KEY PLAN

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GHW
Goldstein, Hill & West Architects, LLP
11 Broadway, Suite 1700, New York, NY 10004
Tel: 212.213.8007 Fax: 212.696.1754

DESIGN ARCHITECT:
KPF
KOHN PEDERSEN FOX ASSOCIATES PC
ARCHITECTS & PLANNING CONSULTANTS
11 West 42nd Street, New York, NY 10036
Tel: 212.977.6500 Fax: 212.956.2926

INTERIOR DESIGNER:
rockwellgroup
5 Union Square West, New York, NY 10003
Tel: 212.463.0034 Fax: 212.463.0335

INTERIOR DESIGNER:
MR
ARCHITECTURE + DECOR
245 West 29th Street, 10th Floor, New York, NY 10001
Tel: 212.989.9500 Fax: 212.989.9420

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HOLLANDER
Landscape Architects
200 Park Avenue South, Suite 1200, New York, NY
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ONELUXstudio
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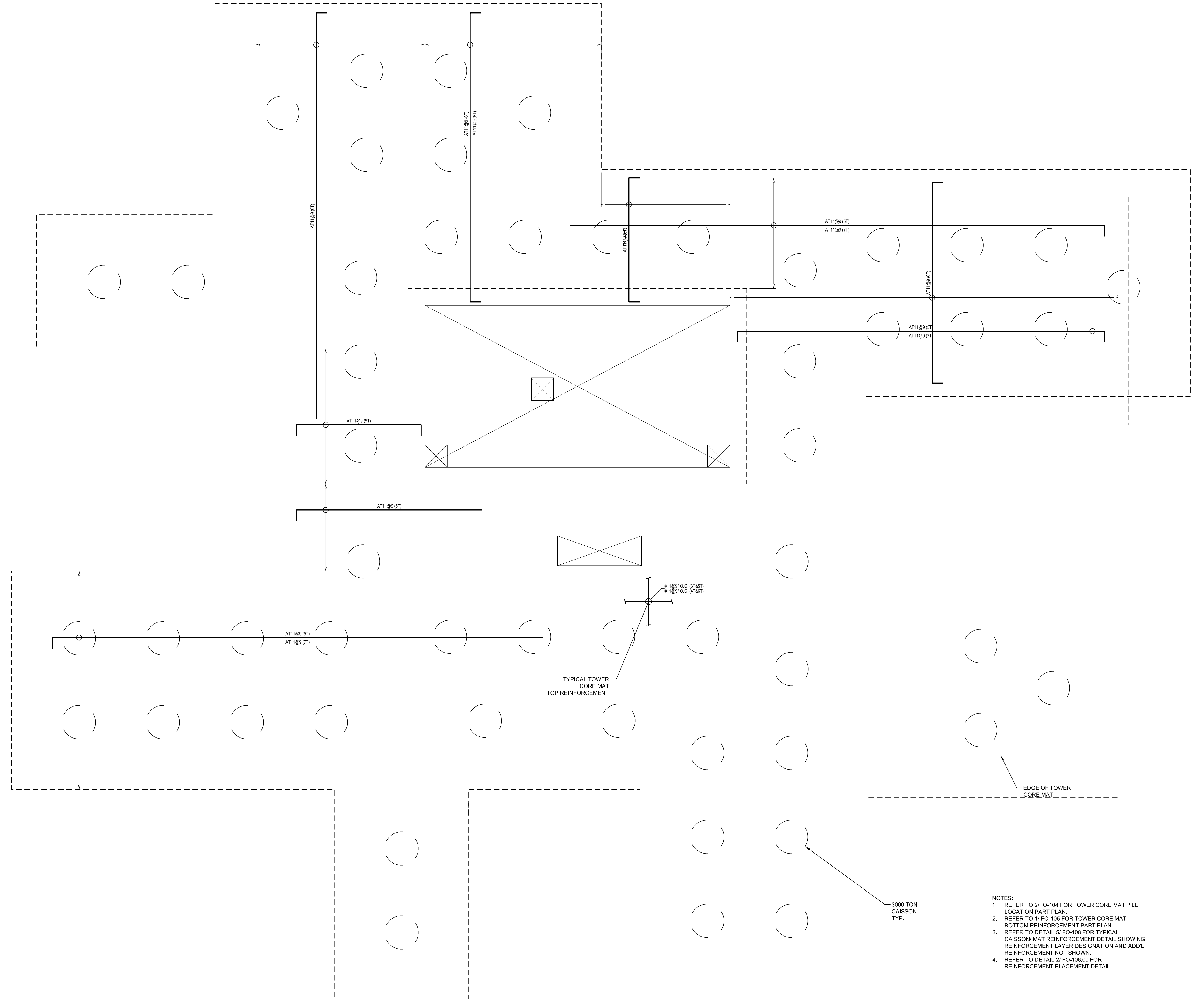
MERFP ENGINEER:
Casorini
A S S O C I A T E S
CONSULTING ENGINEERS
2 Pennsylvania Plaza, New York, NY 10121
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DOB ESCAN:

DOB STAMPS & SIGNATURES:

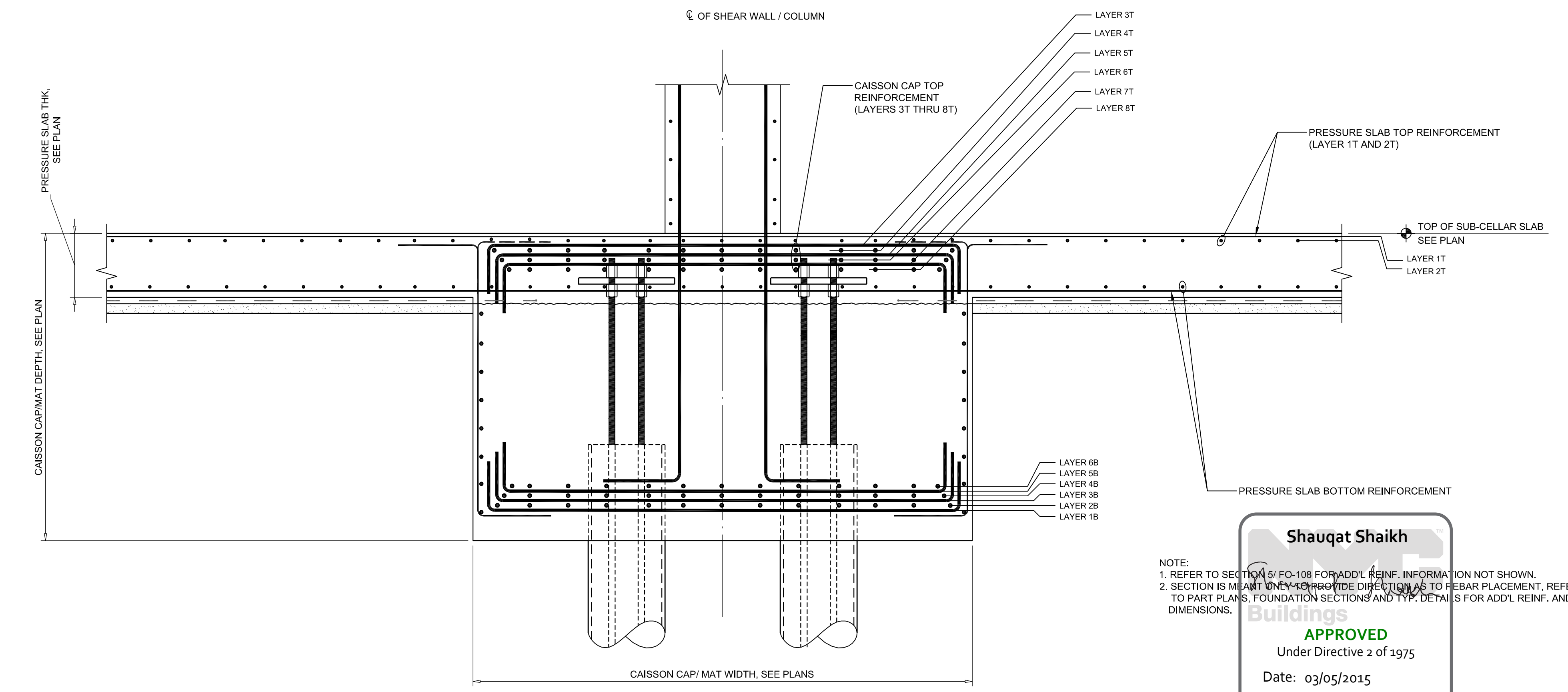
DWG TITLE:
FOUNDATION: TOWER CORE MATT TOP REINFORCEMENT PART PLAN

DATE: 01/15/15	PROJECT #: 14077.00
DATE: 03/05/2015	AS NOTED
DATE: 03/05/2015	FO-106.00
DATE: 03/05/2015	DWG NO. OF



- NOTES:
1. REFER TO 2FO-104 FOR TOWER CORE MAT FILE LOCATION PART PLAN.
 2. REFER TO 1FO-105 FOR TOWER CORE MAT BOTTOM REINFORCEMENT PART PLAN.
 3. REFER TO DETAIL 6FO-108 FOR TYPICAL CAISSON MAT REINFORCEMENT DETAIL SHOWING REINFORCEMENT LAYER DESIGNATION AND ADDL. REINFORCEMENT NOT SHOWN.
 4. REFER TO DETAIL 2FO-106.00 FOR REINFORCEMENT PLACEMENT DETAIL.

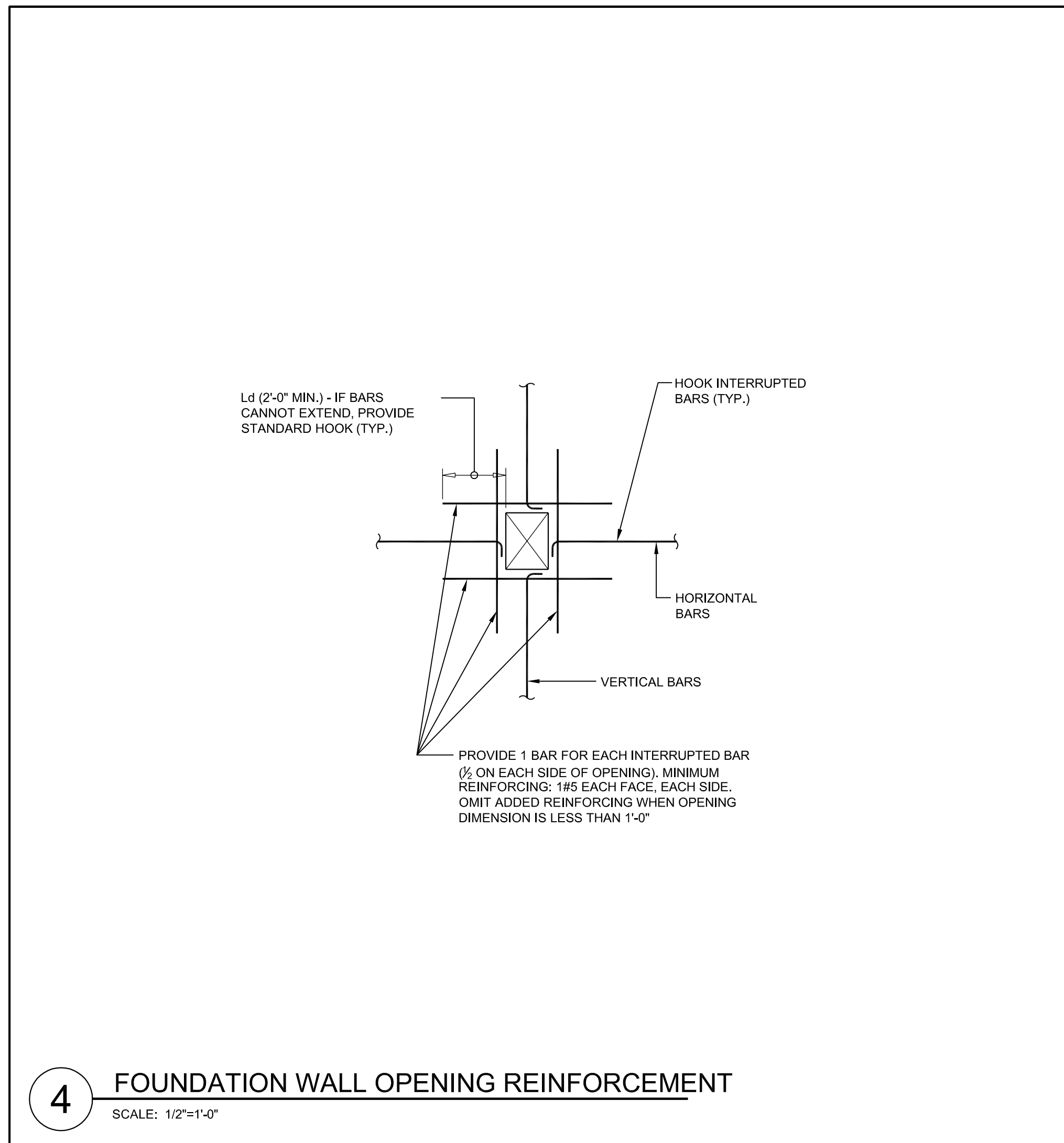
1 TOWER CORE MAT-TOP REINFORCEMENT PART PLAN
SCALE: 1/4"=1'-0"



2 TYPICAL MAT REBAR PLACEMENT SECTION
SCALE: 1/2"=1'-0"

Shauqat Shaikh
APPROVED
Under Directive 2 of 1975
Date: 03/05/2015
NYC Development Hub

SEAL & SIGNATURE:
Shauqat Shaikh
DATE: 01/15/15
PROJECT #: 14077.00
DATE: 03/05/2015
FO-106.00



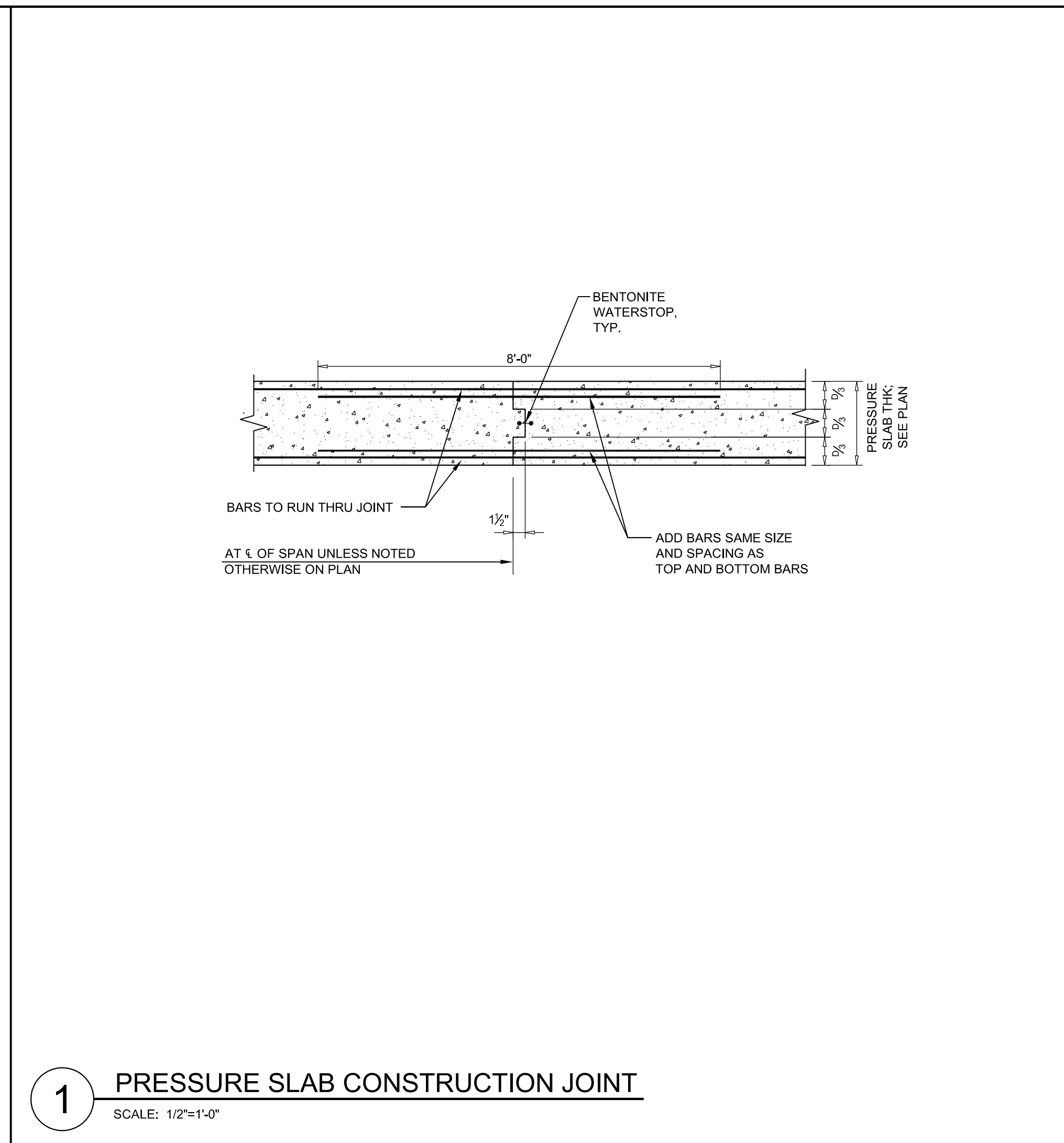
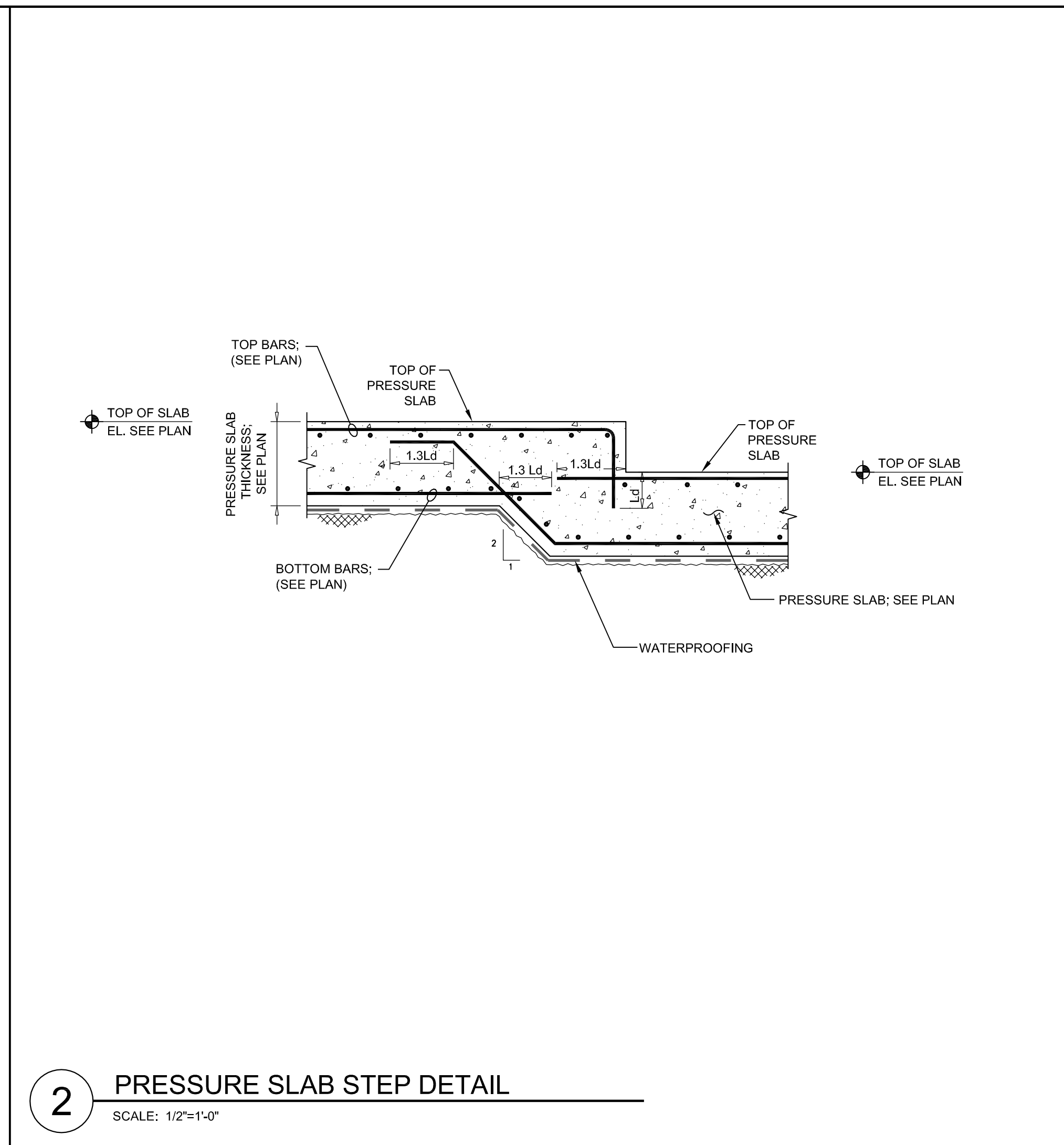
3 DEVELOPMENT LENGTH/HOOK SCHEDULE
SCALE: 1/2"=1'-0"

2" U.O.H.
Ldh (MIN.) U.O.H.
FACE OF WALL, COLUMN OR BEAM

NOTES:
FOR LIGHT WEIGHT AGGREGATE MULTIPLY TABLE VALUES BY 1.3
FOR EPOXY COATED REBAR MULTIPLY TABLE VALUES BY 1.2
FOR $F_y = 75$ ksi MULTIPLY TABLE VALUES BY 1.25
COMBINATIONS OF EFFECTS DUE TO CONCRETE DENSITY AND EPOXY COATING ARE CUMULATIVE

BAR #	f_c					
	4000 psi	5000 psi	6000 psi	7000 psi	8000 psi	10000 psi
3	7	6	6	6	6	6
4	7	6	6	6	6	6
5	10	8	7	7	6	6
6	11	9	8	8	7	6
7	13	11	10	9	9	8
8	14	12	11	10	10	8
9	17	14	13	12	11	10
10	19	16	15	14	13	11
11	20	17	16	15	14	11

* ASSUMES $F_y = 60$ ksi



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Number: _____ Date: _____ Revision: _____

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299 Park Avenue
New York, NY 10171

PROJECT: 101 MURRAY STREET
New York, NY 10007

EXECUTIVE ARCHITECT: **GHW**
Goldstein, Hill & West Architects, LLP
11 Broadway, Suite 1700, New York, NY 10004
Tel: 212.213.8007 Fax: 212.696.1754

DESIGN ARCHITECT: **KPF**
ARCHITECTURE + DECOR
KOHN PEDERSEN FOX ASSOCIATES PC
ARCHITECTS & PLANNING CONSULTANTS
11 West 42nd Street, New York, NY 10036
Tel: 212.977.6500 Fax: 212.956.2926

INTERIOR DESIGNER: **rockwellgroup**
5 Union Square West, New York, NY 10003
Tel: 212.463.0034 Fax: 212.463.0335

INTERIOR DESIGNER: **MR**
ARCHITECTURE + DECOR
245 West 29th Street, 10th Floor, New York, NY 10001
Tel: 212.989.9000 Fax: 212.989.9400

LANDSCAPE ARCHITECT: **HOLLANDER design**
Landscape Architects
200 Park Avenue South, Suite 1200, New York, NY
Tel: (212) 473.0620 projects@hollanderdesign.com

LIGHTING DESIGNER: **ONELUXstudio**
158 West 29th Street, New York, NY 10001
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STRUCTURAL ENGINEER: **DESIMONE**
18 West 18th Street, 10th Floor, New York, NY 10011
Tel: 212.522.2211 Fax: 212.481.6108

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A S S O C I A T E S
CONSULTING ENGINEERS
2 Pennsylvania Plaza, New York, NY 10121
Tel: 212.615.3500 Fax: 212.615.3700

DOB ESCAN: _____

DOB STAMPS & SIGNATURES: _____

DWG TITLE: **FOUNDATION TYPICAL DETAILS**

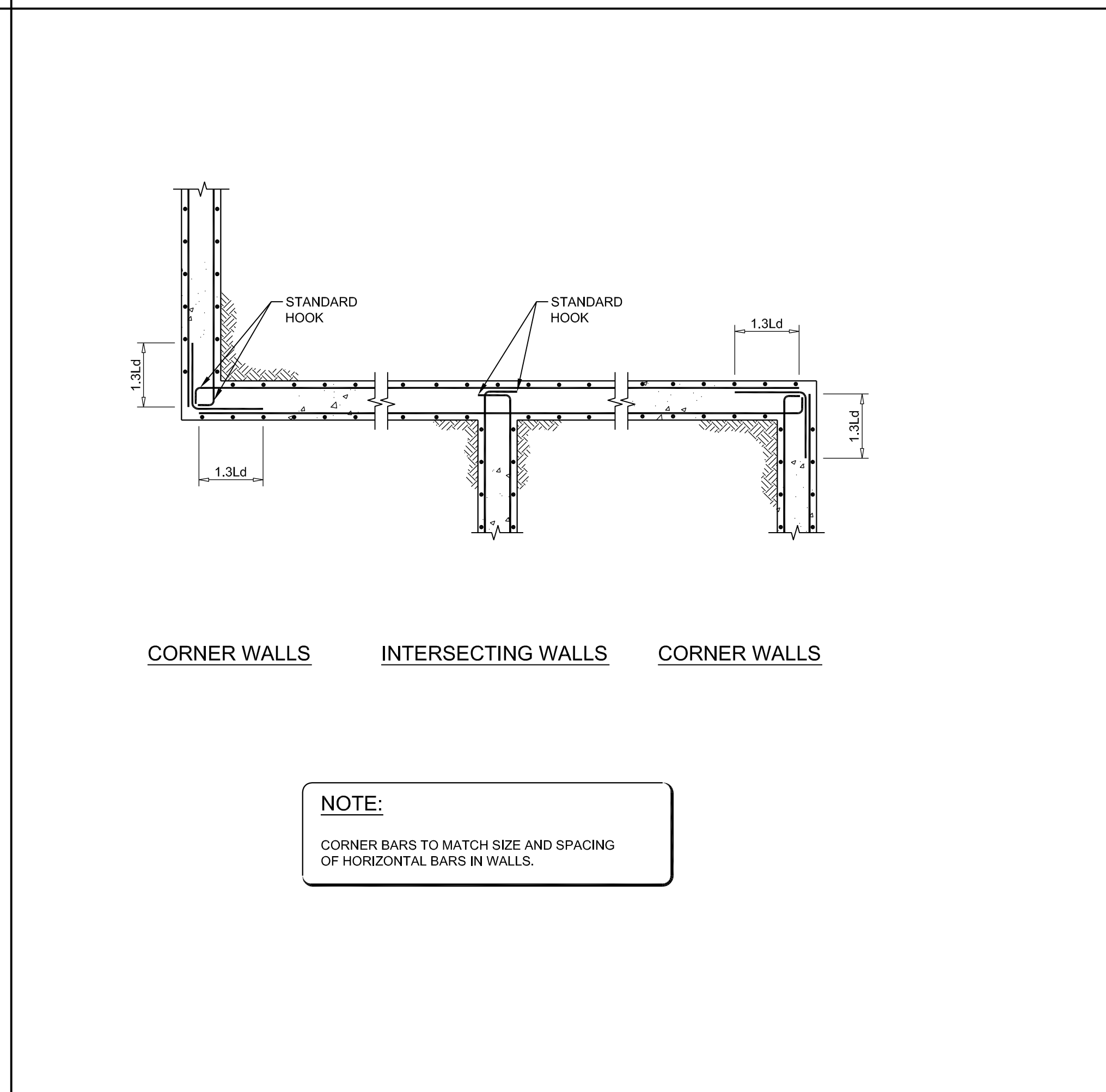
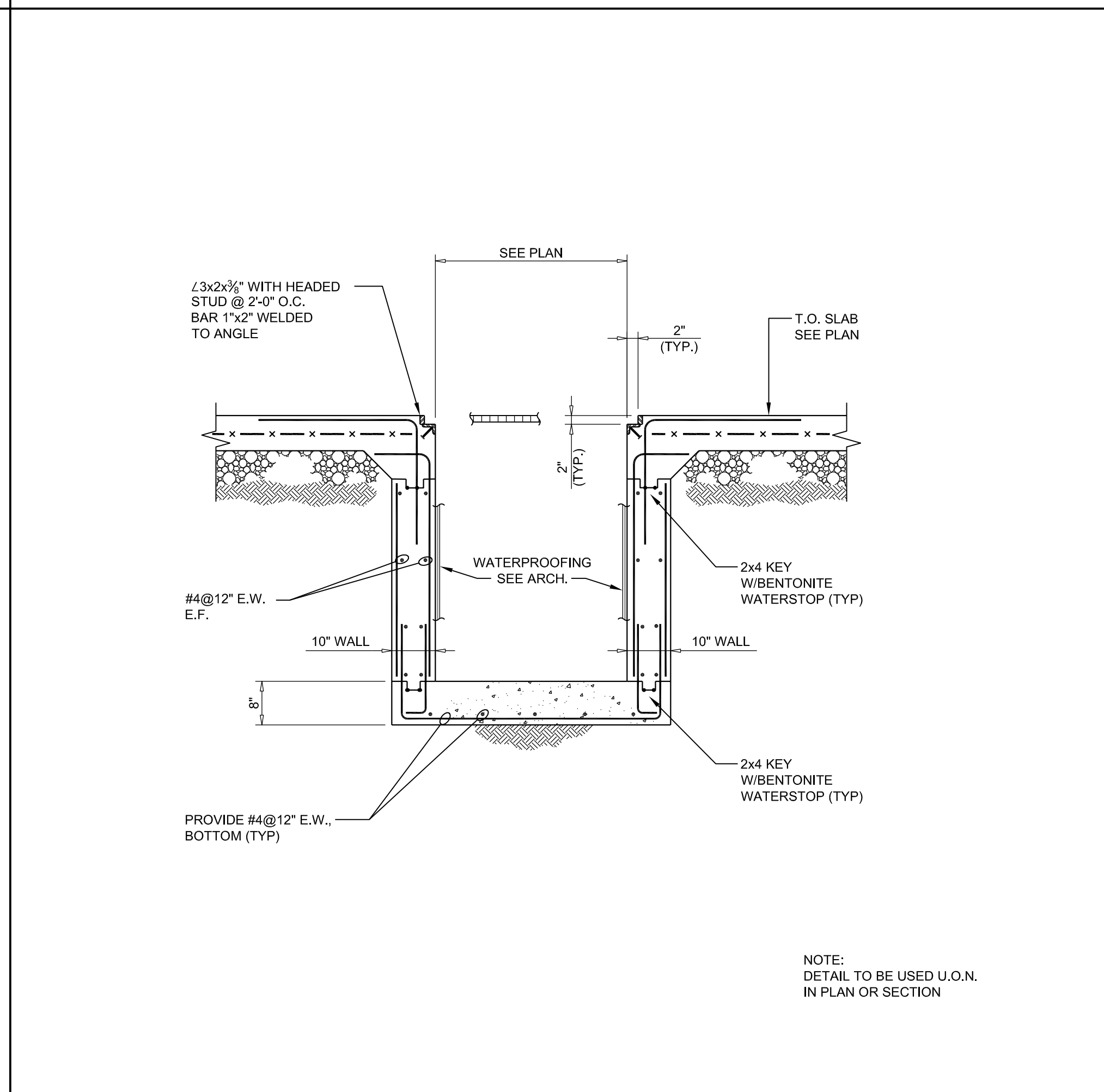
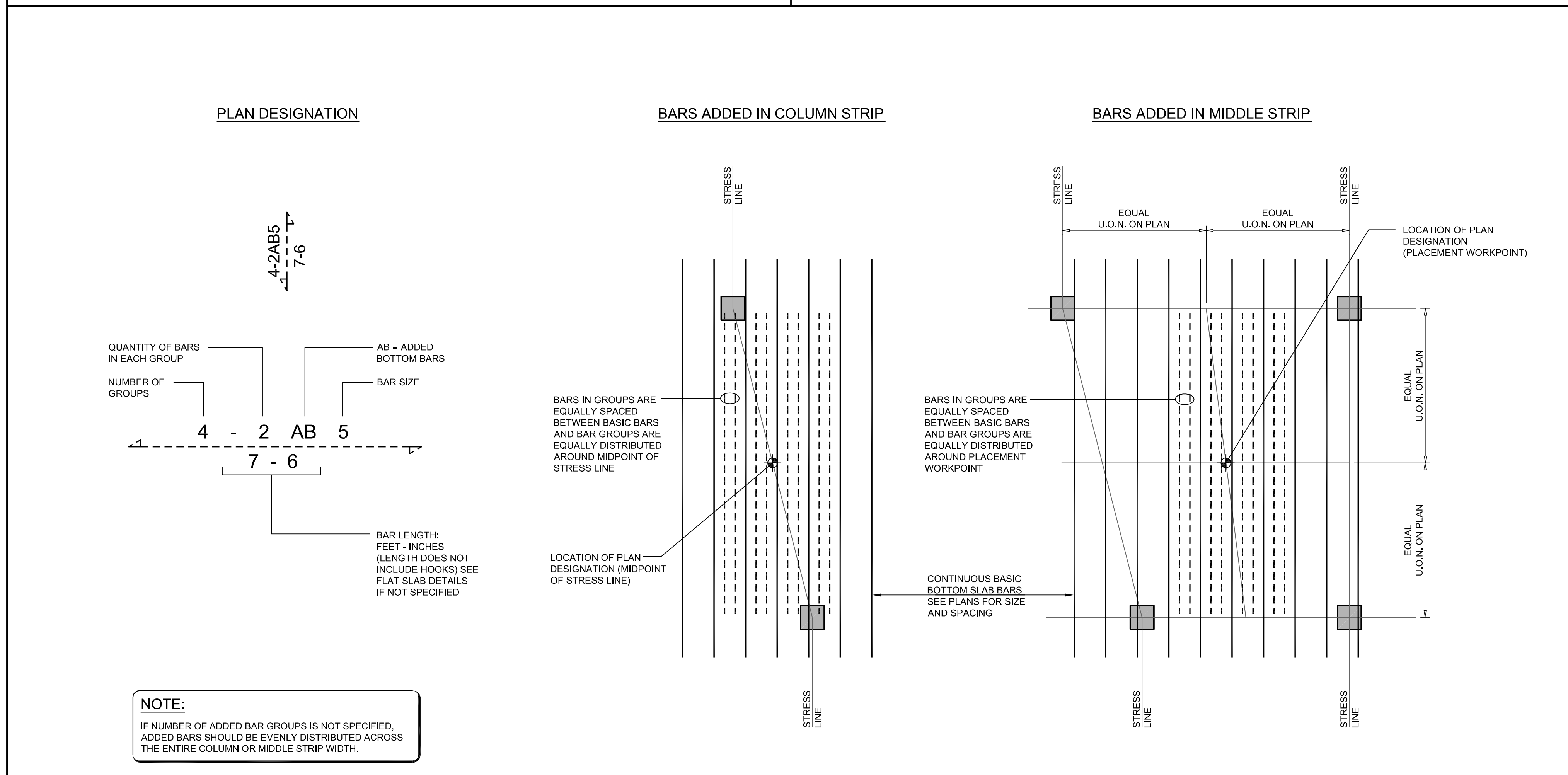
SEAL & SIGNATURE: _____ DATE: 01/15/15

PROJECT #: 14077.00

DATE: 03/05/2015

FO-107.00

DWG NO. _____ OF _____



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299 Park Avenue
New York, NY 10171

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New York, NY 10007

EXECUTIVE ARCHITECT: **GHW**
Goldstein, Hill & West Architects, LLP
11 Broadway, Suite 1700, New York, NY 10004
Tel: 212.213.8007 Fax: 212.696.1754

DESIGN ARCHITECT: **KPF**
ARCHITECTURE + DECOR
KOHN PEDERSEN FOX ASSOCIATES PC
ARCHITECTS & PLANNING CONSULTANTS
11 West 42nd Street, New York, NY 10036
Tel: 212.977.6500 Fax: 212.956.2926

INTERIOR DESIGNER: **rockwellgroup**
5 Union Square West, New York, NY 10003
Tel: 212.463.0034 Fax: 212.463.0335

INTERIOR DESIGNER: **MR**
ARCHITECTURE + DECOR
245 West 29th Street, 10th Floor, New York, NY 10001
Tel: 212.989.9000 Fax: 212.989.9400

LANDSCAPE ARCHITECT: **HOLLANDER design**
Landscape Architects
200 Park Avenue South, Suite 1200, New York, NY
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A S S O C I A T E S
CONSULTING ENGINEERS
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DOB ESCAN: _____

DOB STAMPS & SIGNATURES: _____

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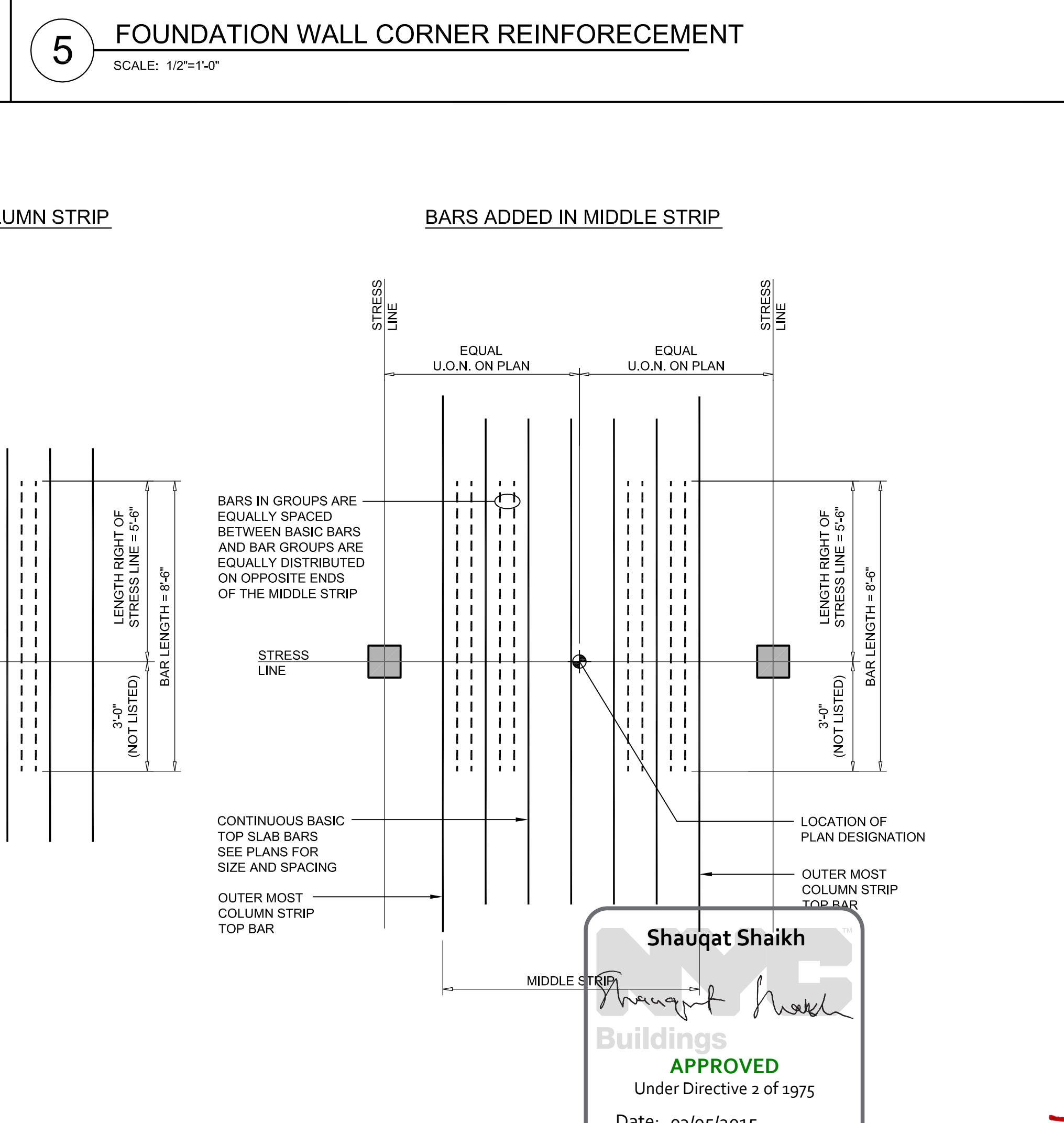
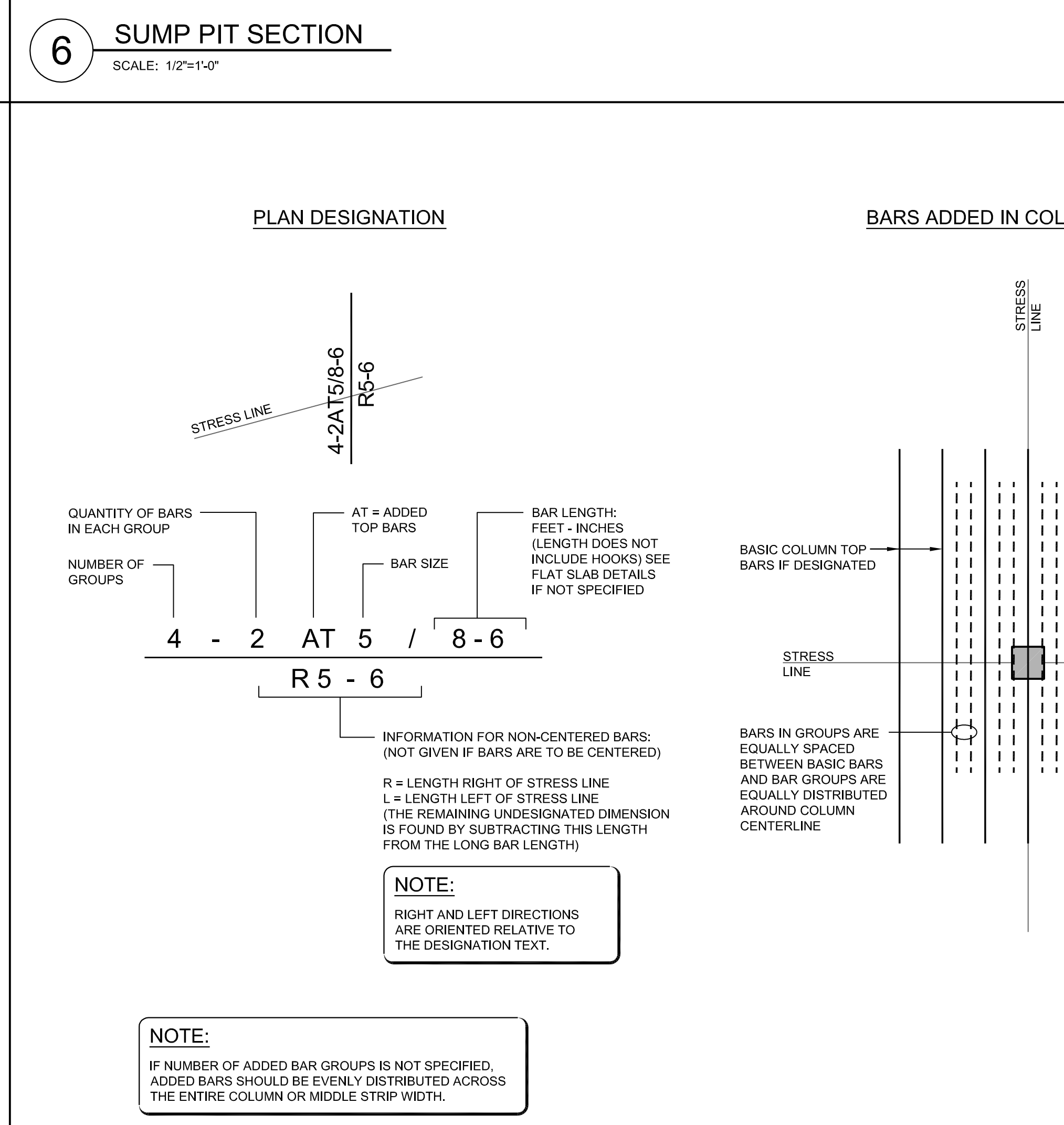
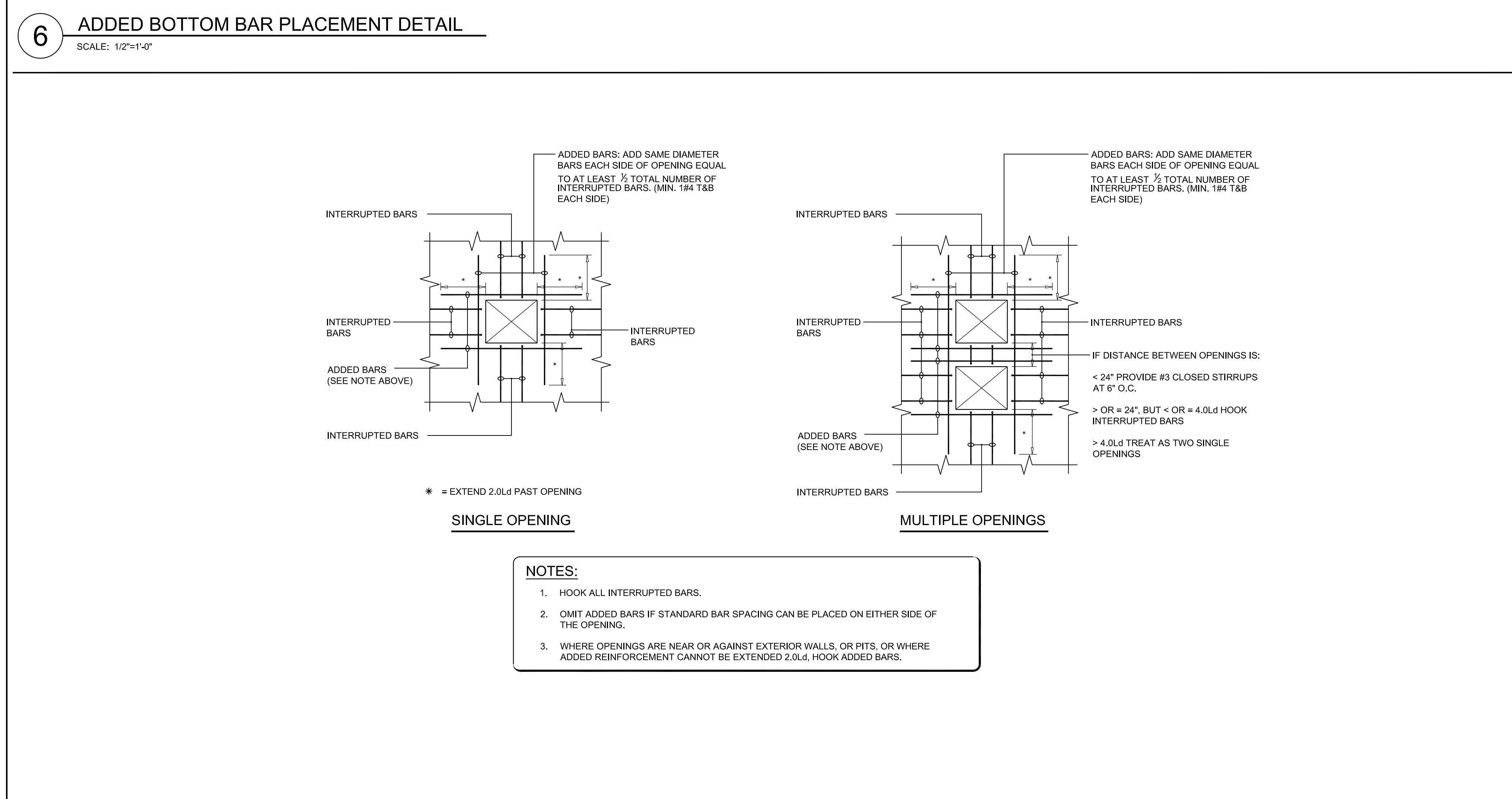
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Tel: 212.213.8007 Fax: 212.696.1754

DESIGN ARCHITECT: **KPF**
ARCHITECTURE + DECOR
KOHN PEDERSEN FOX ASSOCIATES PC
ARCHITECTS & PLANNING CONSULTANTS
11 West 42nd Street, New York, NY 10036
Tel: 212.977.6500 Fax: 212.956.2926

INTERIOR DESIGNER: **rockwellgroup**
5 Union Square West, New York, NY 10003
Tel: 212.463.0034 Fax: 212.463.0335

INTERIOR DESIGNER: **MR**
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245 West 29th Street, 10th Floor, New York, NY 10001
Tel: 212.989.9000 Fax: 212.989.9400

LANDSCAPE ARCHITECT: **HOLLANDER design**
Landscape Architects
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Tel: (212) 473.0620 projects@hollanderdesign.com

LIGHTING DESIGNER: **ONELUXstudio**
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STRUCTURAL ENGINEER: **DESIMONE**
18 West 18th Street, 10th Floor, New York, NY 10011
Tel: 212.522.2211 Fax: 212.481.6108

MEPP ENGINEER: **Carverini**
A S S O C I A T E S
CONSULTING ENGINEERS
2 Pennsylvania Plaza, New York, NY 10121
Tel: 212.615.3500 Fax: 212.615.3700

DOB ESCAN: _____

DOB STAMPS & SIGNATURES: _____

DWG TITLE: **FOUNDATION TYPICAL DETAILS**

SEAL & SIGNATURE: _____ DATE: 01/15/15

PROJECT #: 14077.00

DATE: 03/05/2015

FO-107.00

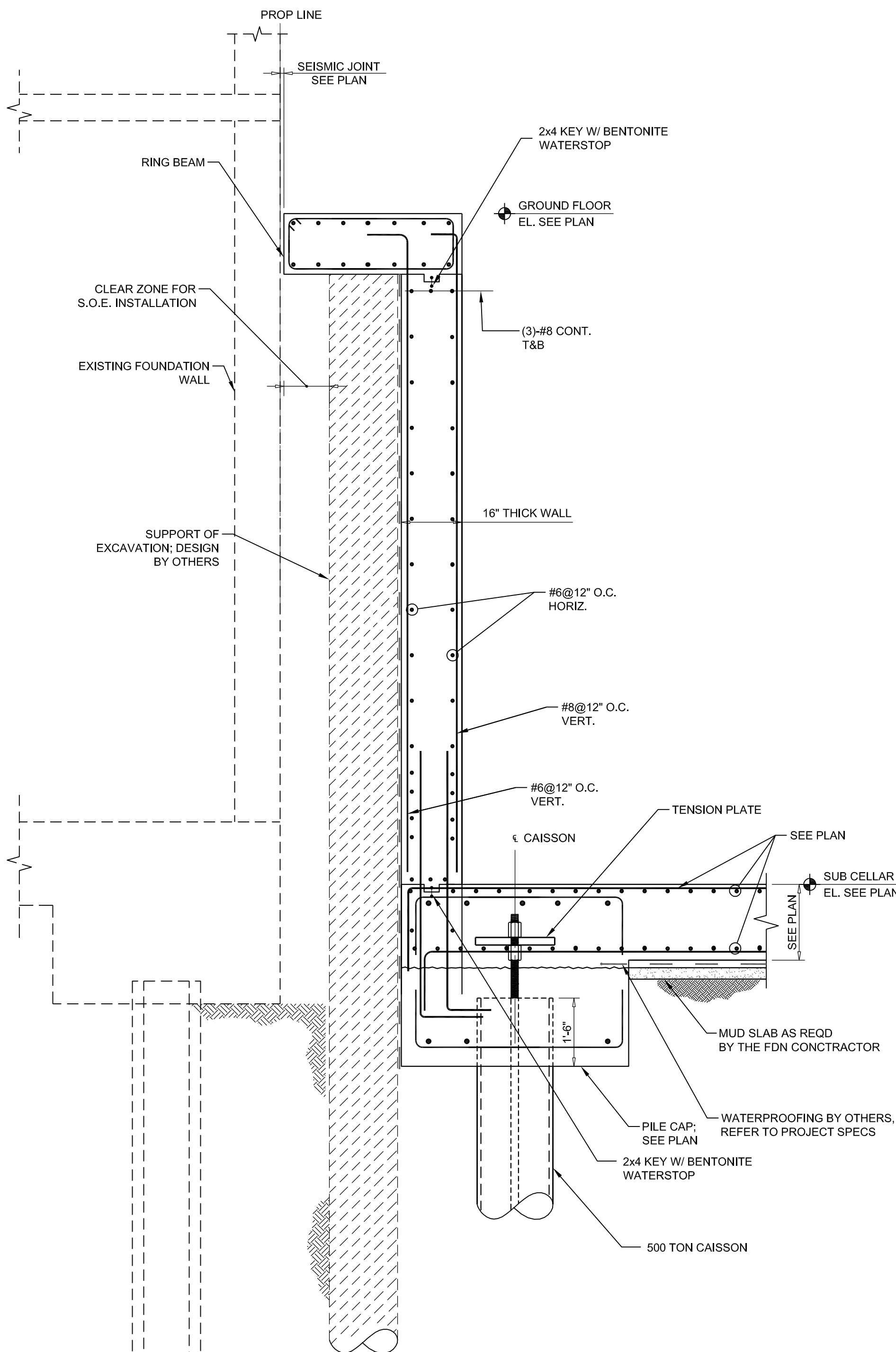
DWG NO. _____ OF _____

7 TYP. PRESSURE SLAB/ CORE MAT OPENING DETAILS
SCALE: 1/2"=1'-0"

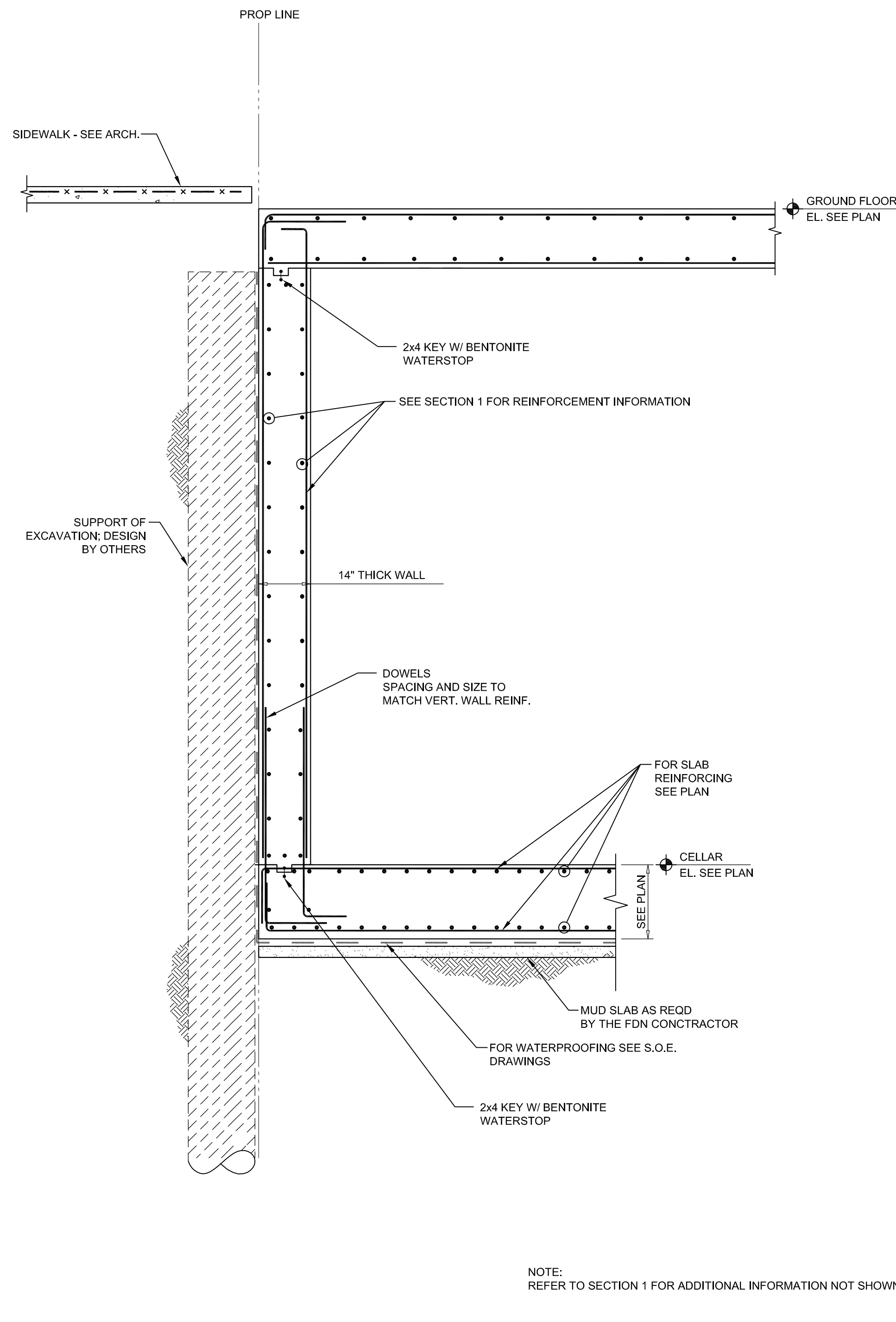
6 ADDED TOP BAR PLACEMENT DETAIL
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5 FOUNDATION WALL CORNER REINFORCEMENT
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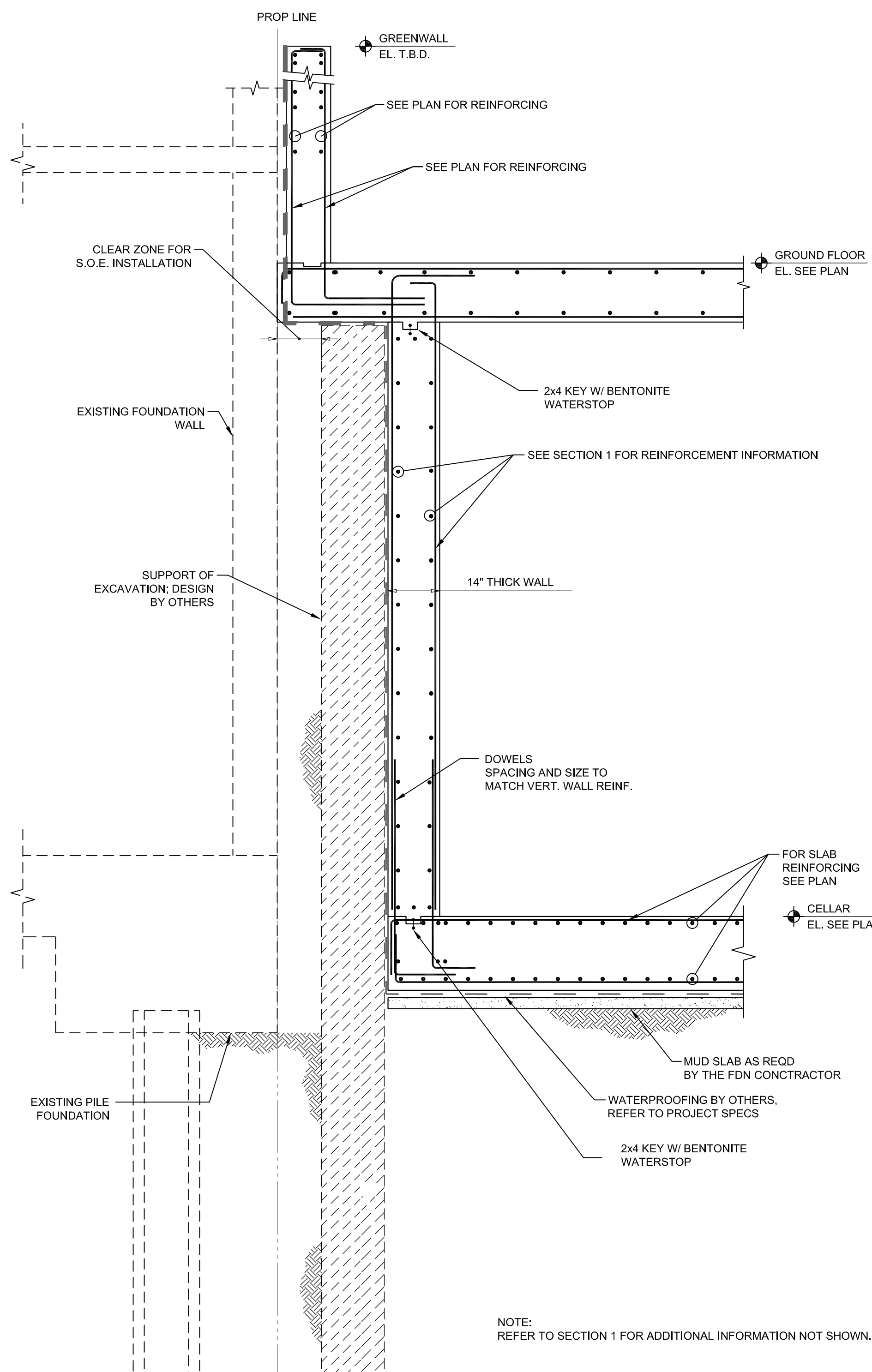
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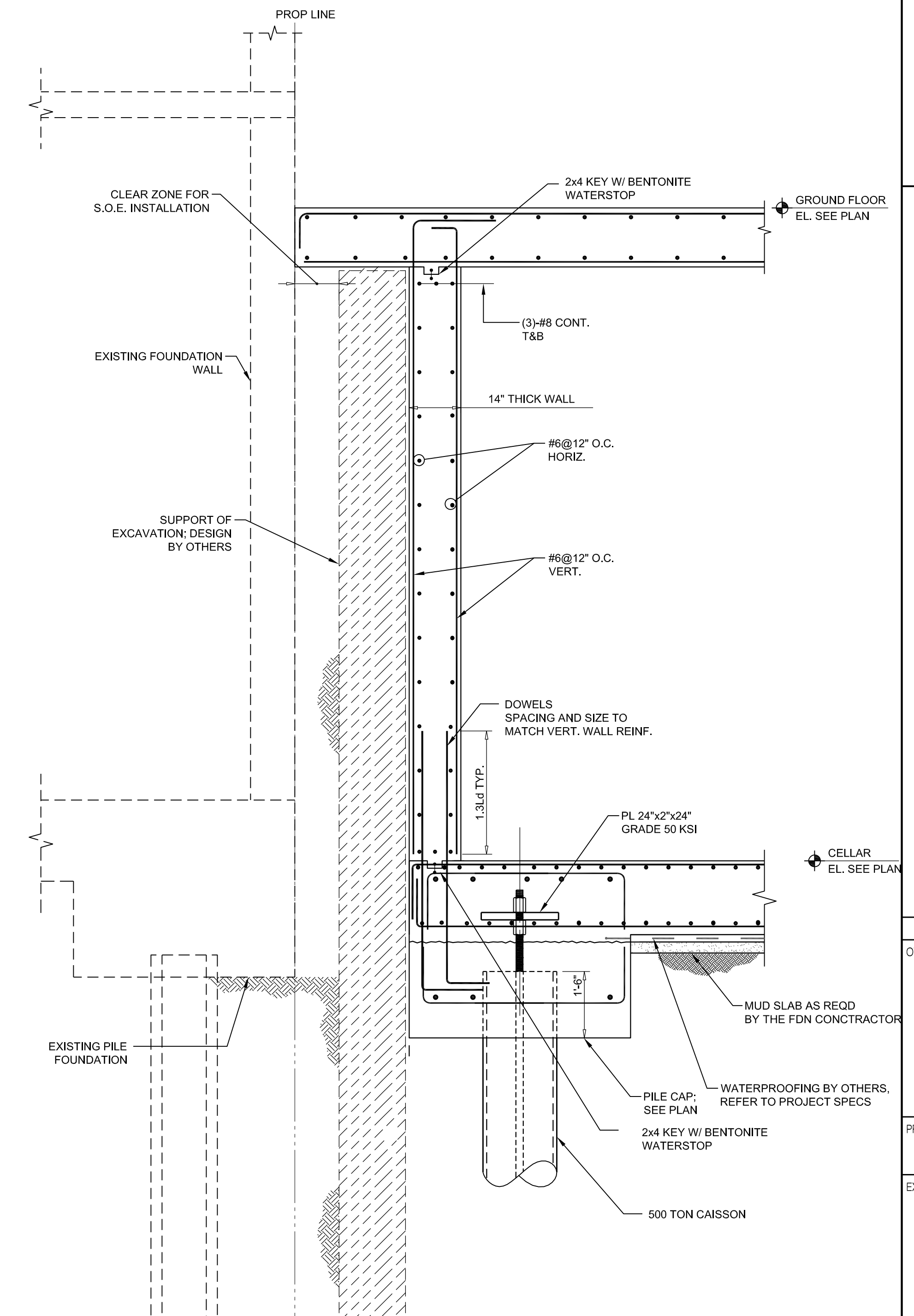
4 FOUNDATION WALL SECTION @ POOL
SCALE: 1/2"=1'-0"



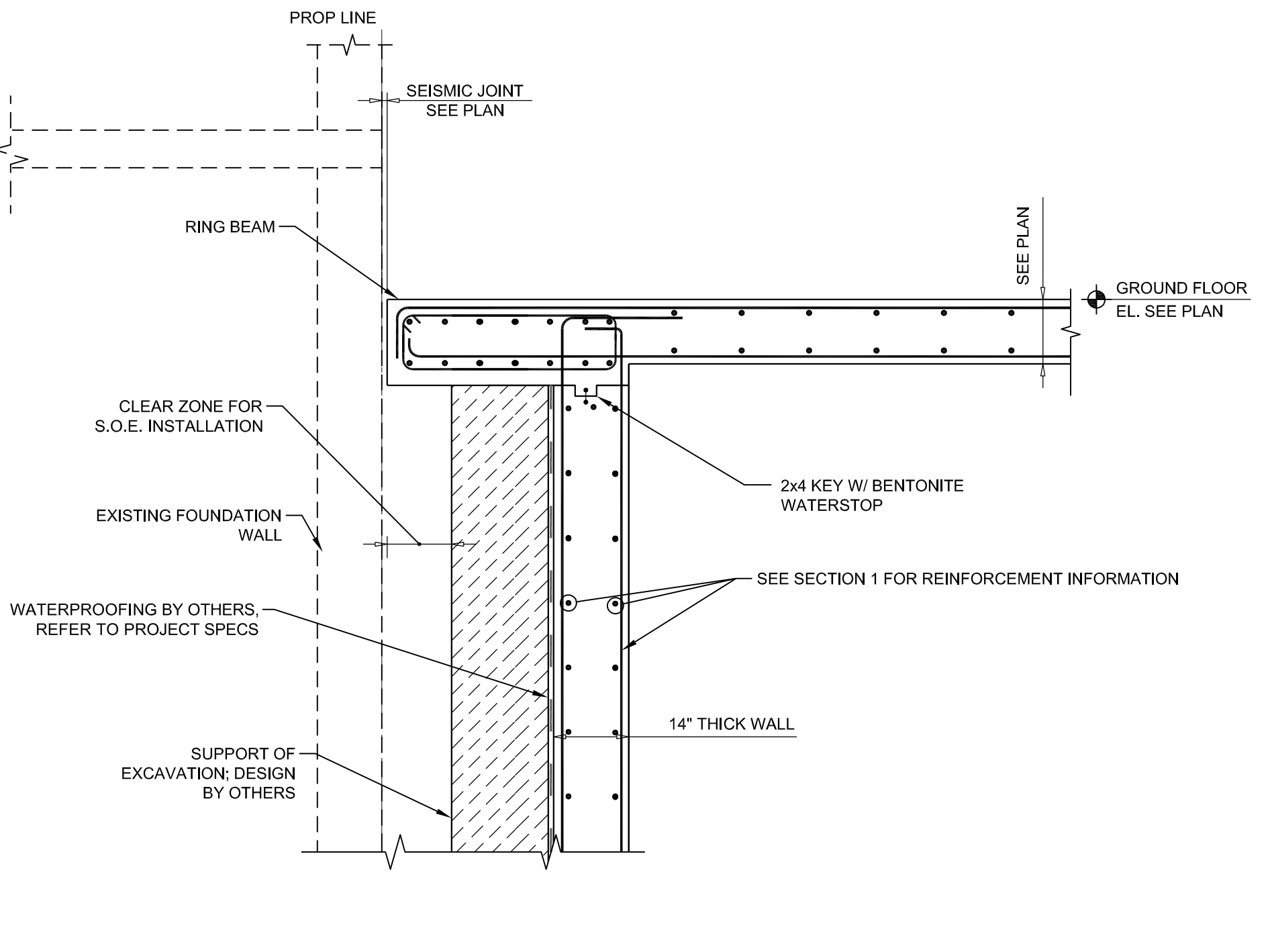
3 FOUNDATION WALL SECTION AT SIDEWALK
SCALE: 1/2"=1'-0"



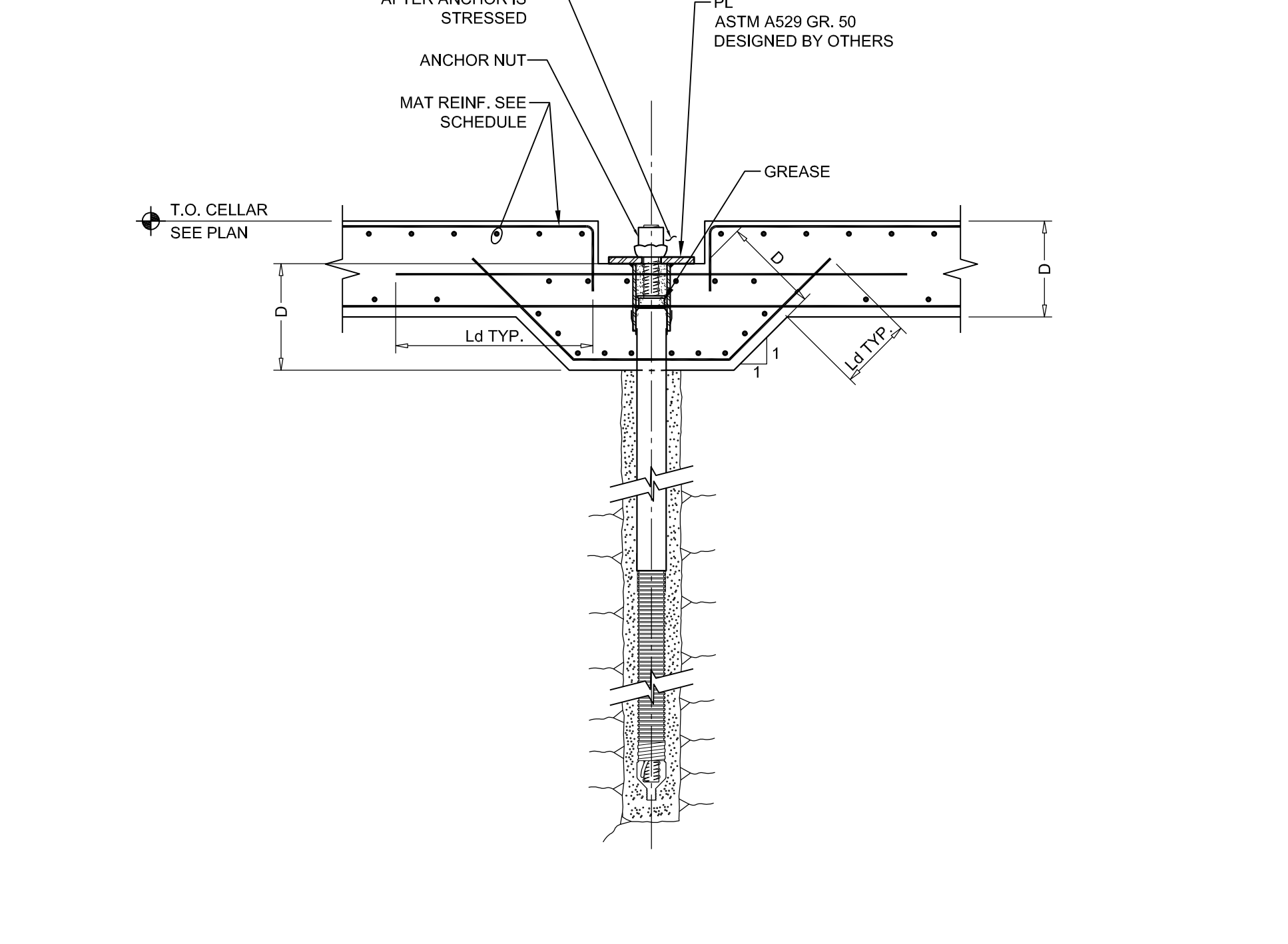
2 FOUNDATION WALL SECTION AT GREENWALL
SCALE: 1/2"=1'-0"



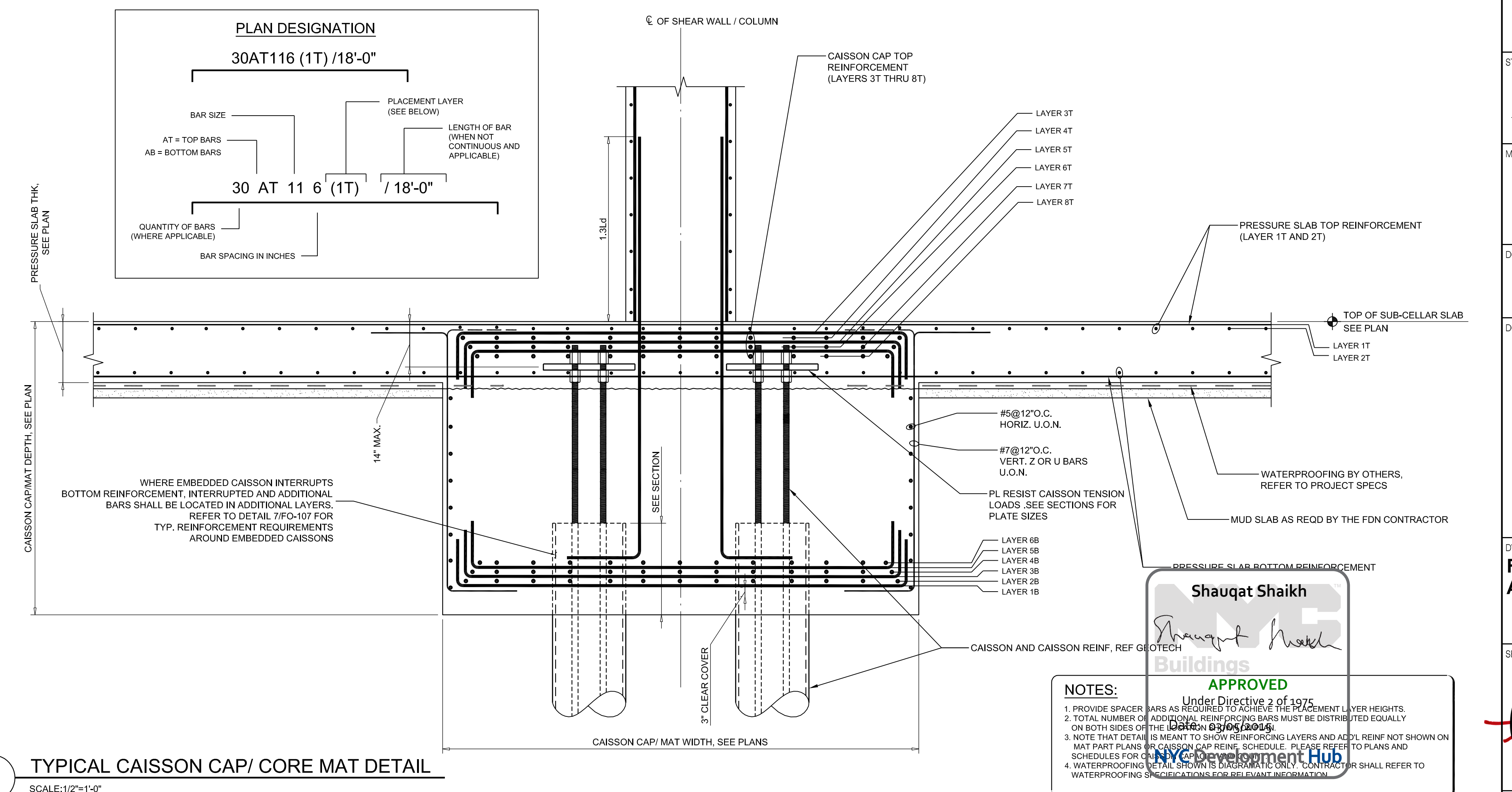
1 TYPICAL FOUNDATION WALL SECTION
SCALE: 1/2"=1'-0"



7 SECTION @ RING BEAM
SCALE: 1/2"=1'-0"



6 TYPICAL ROCK ANCHOR DETAIL
SCALE: 1/2"=1'-0"



5 TYPICAL CAISSON CAP/ CORE MAT DETAIL
SCALE: 1/2"=1'-0"

KEY PLAN

01/23/15 DOB ISSUE
01/15/15 DOCUMENT ISSUE NO.5
01/08/15 DOCUMENT ISSUE NO.4
11/21/14 DOCUMENT ISSUE NO.2
11/07/14 DOCUMENT ISSUE NO.1

OWNER: HENRY V MURRAY SENIOR LLC
299 Park Avenue
New York, NY 10171

PROJECT: 101 MURRAY STREET
New York, NY 10007

EXECUTIVE ARCHITECT: **GHWAA**
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Tel: 212.592.2211 Fax: 212.481.0108

MERFP ENGINEER: **Carverini**
A S S O C I A T E S
CONSULTING ENGINEERS
2 Pennsylvania Plaza, New York, NY 10121
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DOB ESCAN: _____

DOB STAMPS & SIGNATURES: _____

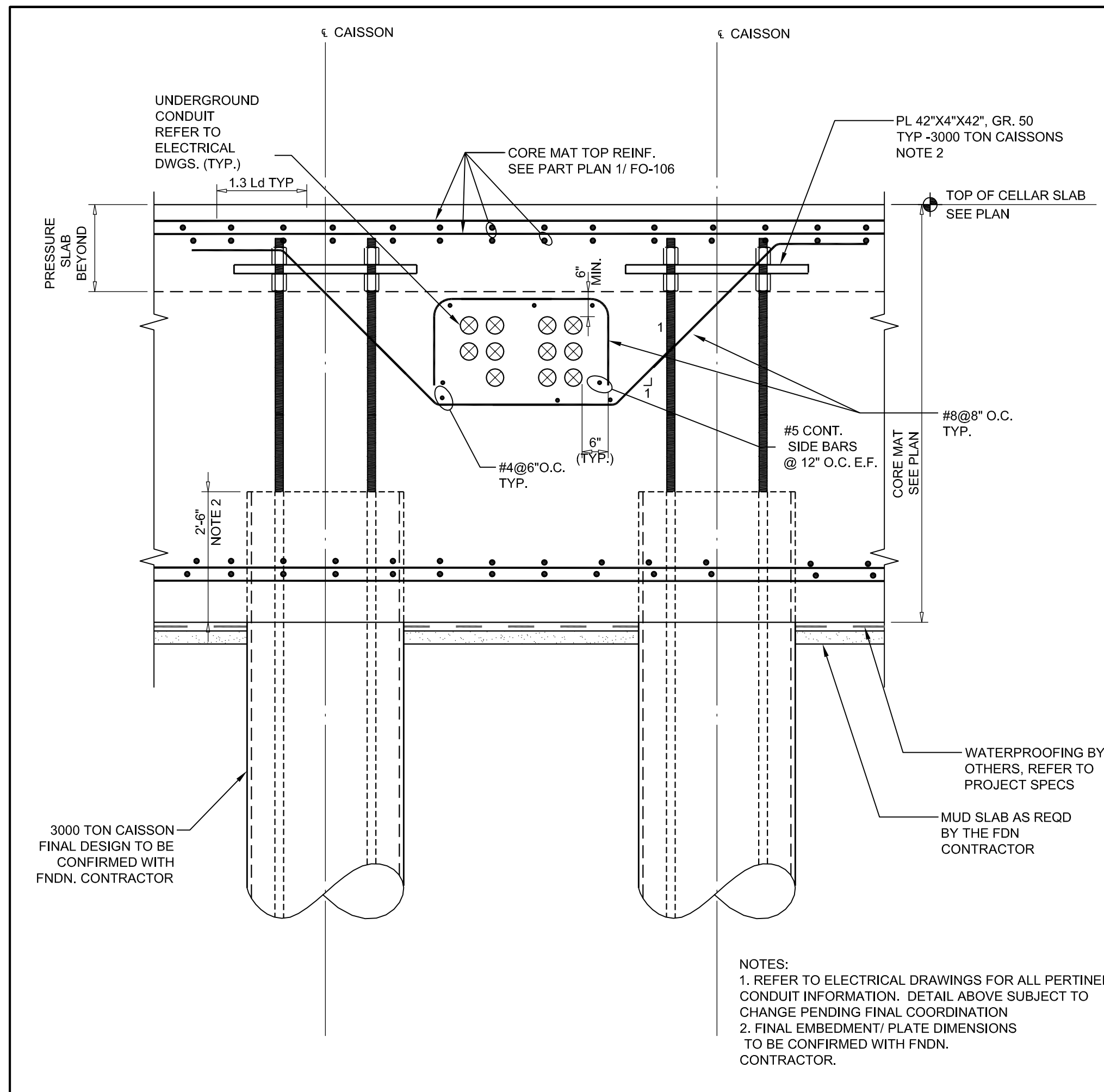
DWG TITLE: **FOUNDATION SECTIONS AND DETAILS**

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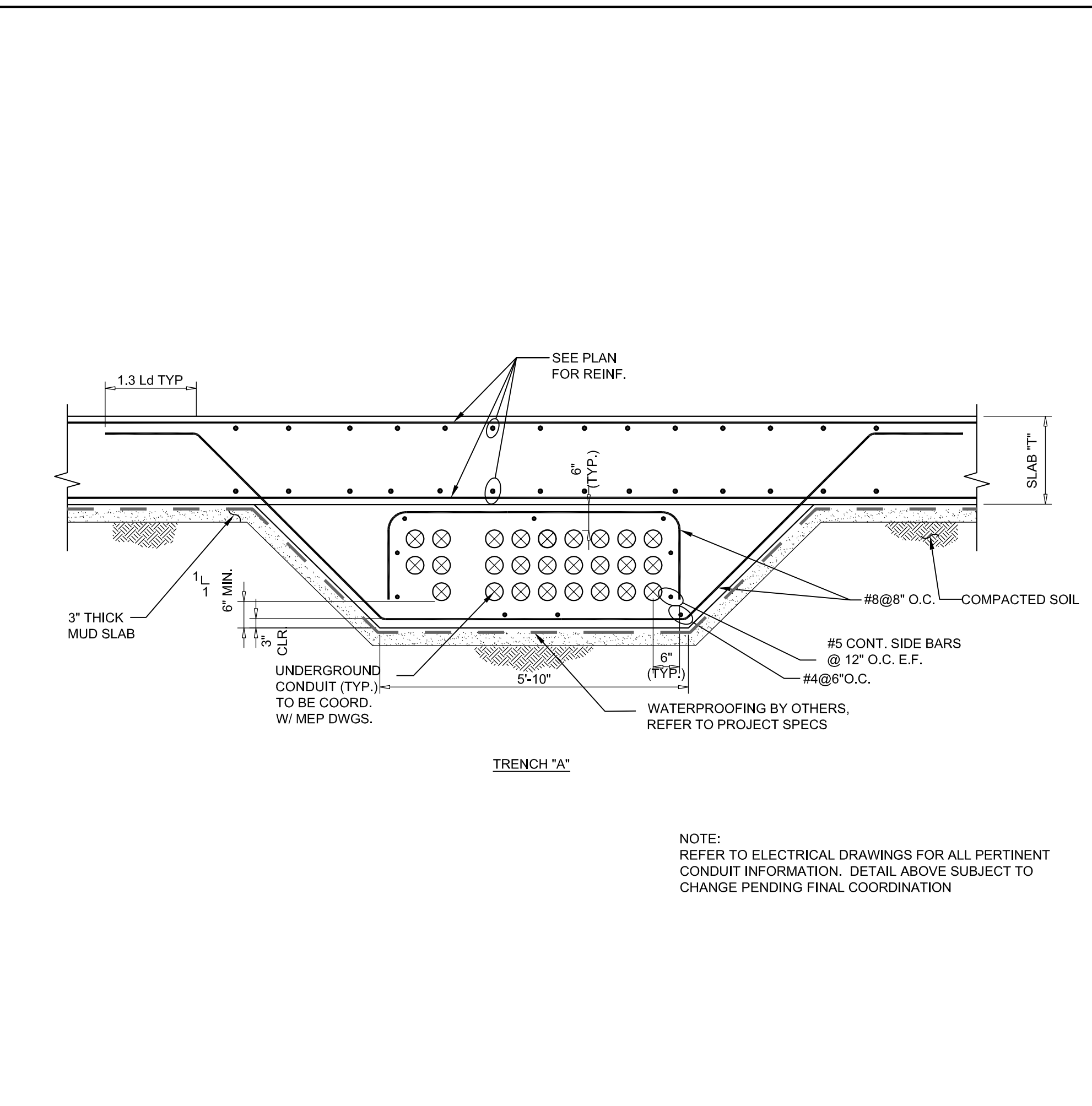
DATE: 01/15/15
PROJECT #: 14077.00
AS NOTED
FO-108.00
DWG NO. _____ OF _____

APPROVED
Shauqat Shaikh
Shauqat Shaikh Buildings
NYC Development Hub

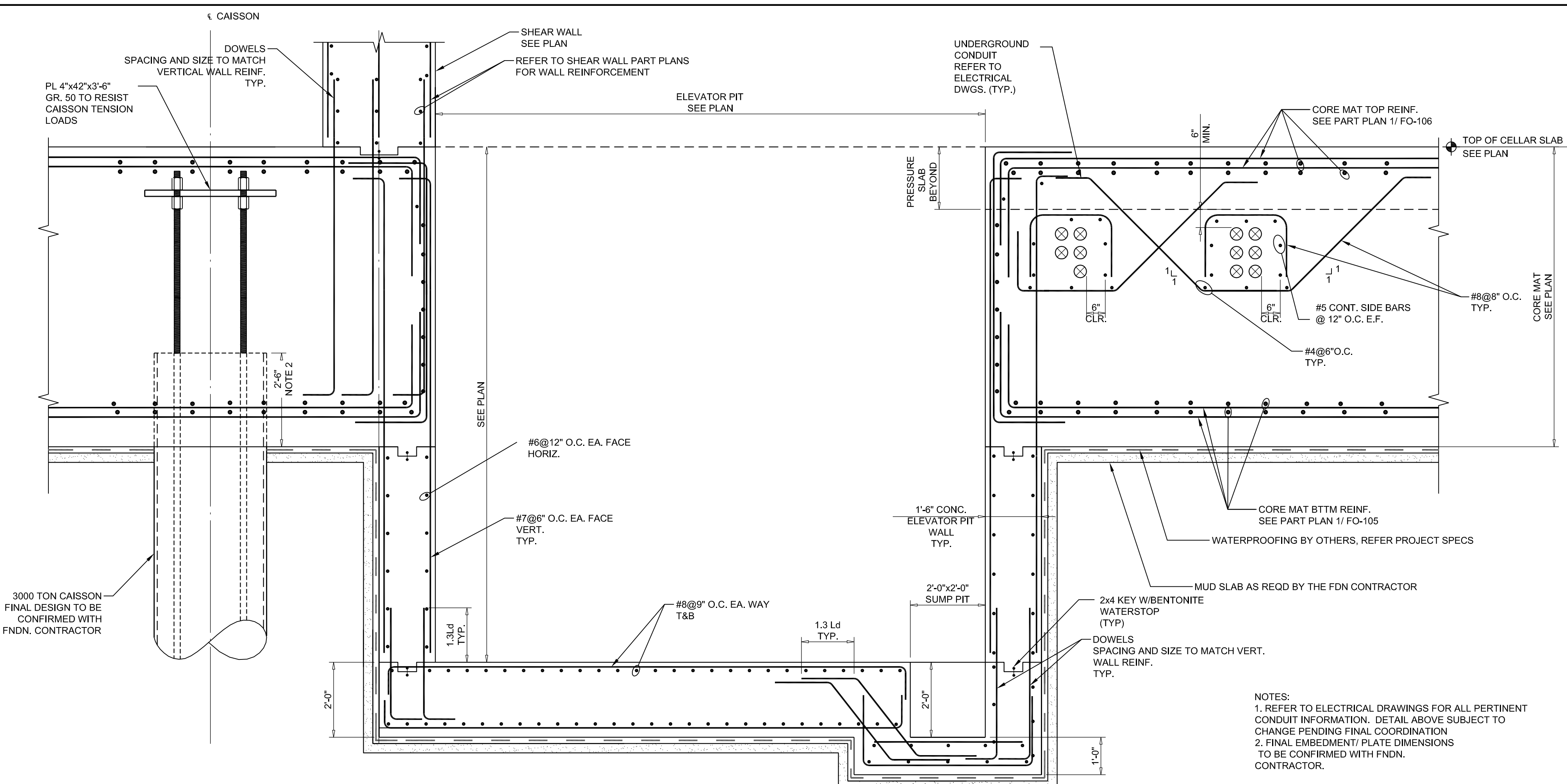
NOTES:
1. PROVIDE SPACER BARS AS REQUIRED TO MAINTAIN REINFORCEMENT LAYER HEIGHTS.
2. TOTAL NUMBER OF ADDITIONAL REINFORCING BARS MUST BE DISTRIBUTED EQUALLY ON BOTH SIDES OF THE CAISSON CAP.
3. NOTE THAT DETAIL IS MEANT TO SHOW REINFORCING LAYERS AND ADD. REINF. NOT SHOWN ON MAT REINFORCEMENT SCHEDULES OR REINFORCEMENT SCHEDULES FOR PLANS AND SCHEDULES FOR CORE MATS. REINFORCEMENT REQUIREMENTS SHALL REFER TO WATERPROOFING SCHEDULES FOR CORE MATS. REINFORCEMENT SHALL REFER TO WATERPROOFING SCHEDULES FOR CORE MATS.
4. WATERPROOFING REQUIREMENTS SHALL REFER TO PROJECT SPECS.



3 SECTION @ ELECTRICAL CONDUIT-CORE MAT
SCALE: 1/2"=1'-0"



2 SECTION @ ELECTRICAL CONDUIT TRENCH
SCALE: 1/2"=1'-0"



1 SECTION @ ELEVATOR PIT-TOWER CORE MAT
SCALE: 1/2"=1'-0"

KEY PLAN

Date:	11/27/14	Revision:	1
Date:	11/21/14	Revision:	2
Date:	01/08/15	Revision:	4
Date:	01/15/15	Revision:	5
Date:	01/23/15	Revision:	DOBSUE

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New York, NY 10007

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ARCHITECTS & PLANNING CONSULTANTS
11 West 42nd Street, New York, NY 10036
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INTERIOR DESIGNER: **MR**
ARCHITECTURE + DECOR
245 West 29th Street, 10th Floor, New York, NY 10001
Tel: 212.889.9500 Fax: 212.889.8400

LANDSCAPE ARCHITECT: **HOLLANDER**
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200 Park Avenue South, Suite 1200, New York, NY
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18 West 18th Street, 10th Floor, New York, NY 10011
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MEPP ENGINEER: **Casotini**
A S O C I A T E S
CONSULTING ENGINEERS
2 Pennsylvania Plaza, New York, NY 10121
Tel: 212.615.3500 Fax: 212.615.3700

DOB ESCAN:

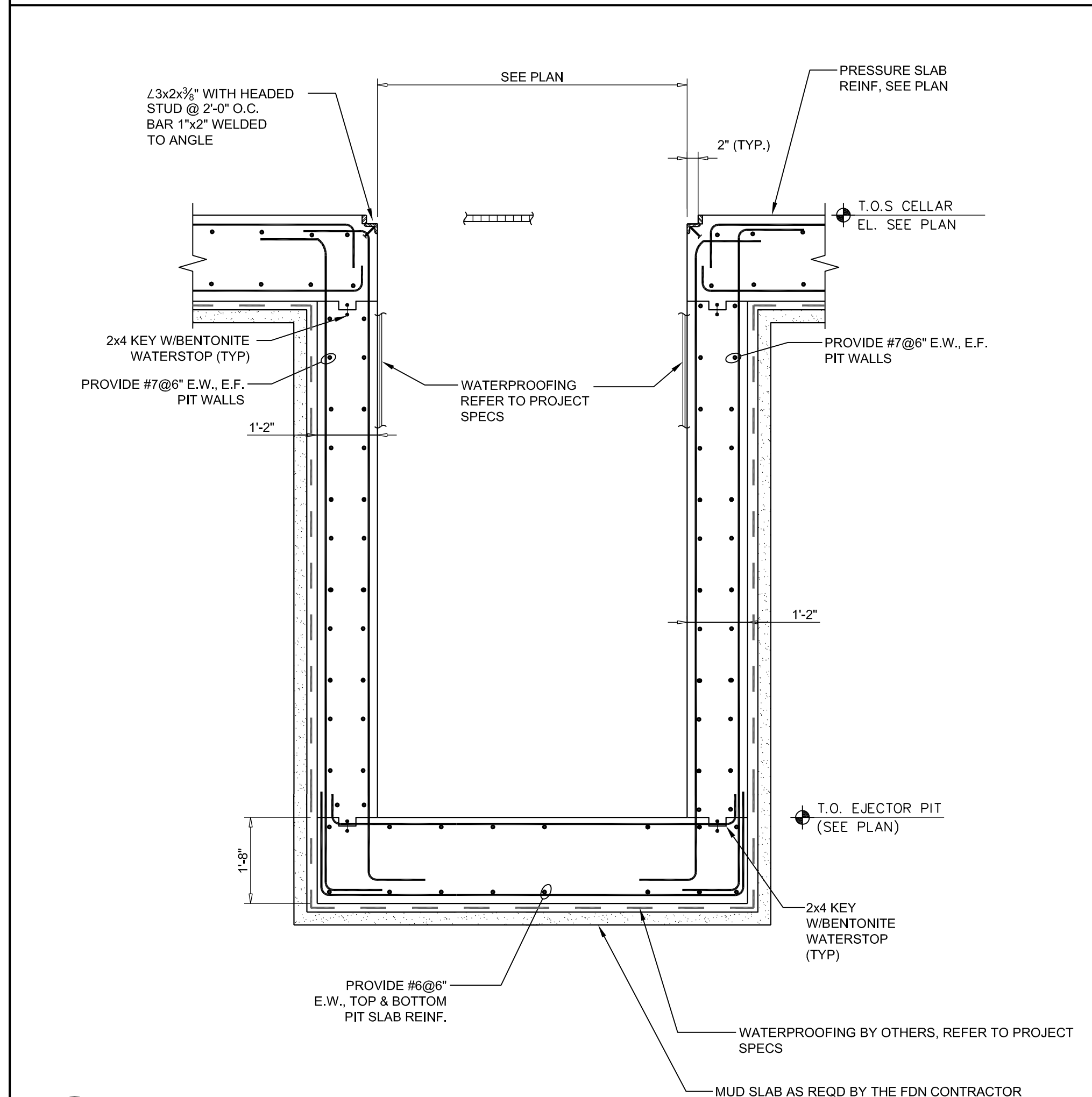
DOB STAMPS & SIGNATURES:

DWG TITLE: **FOUNDATION SECTIONS AND DETAILS**

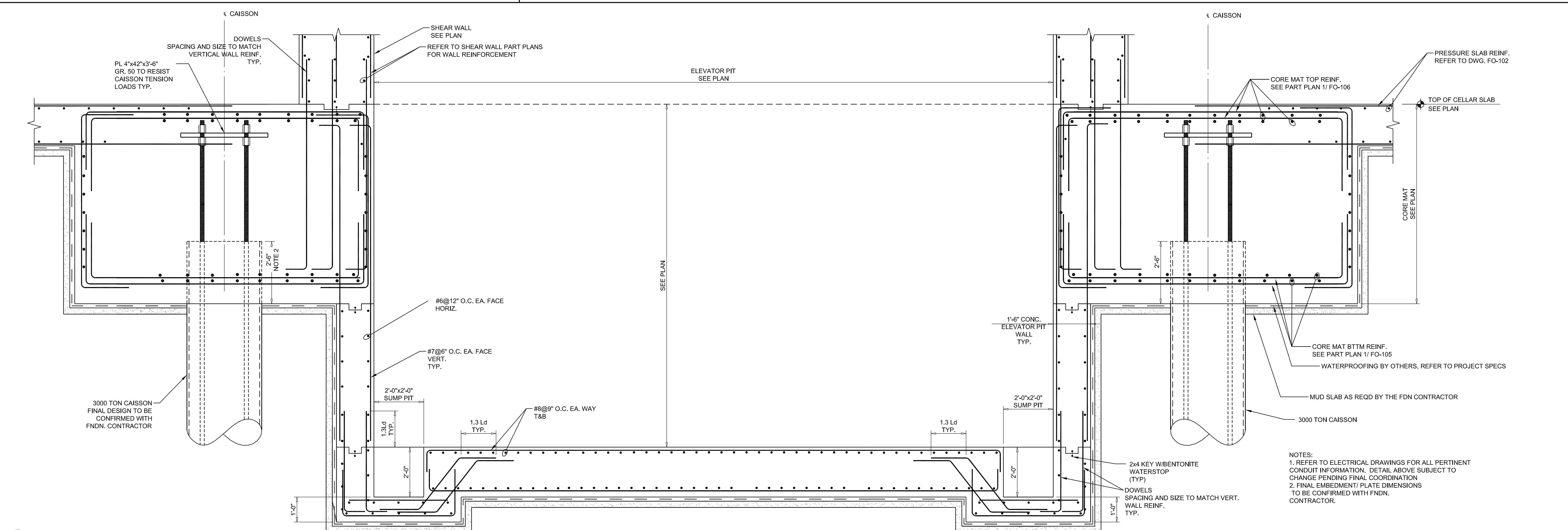
DATE: 03/05/2015

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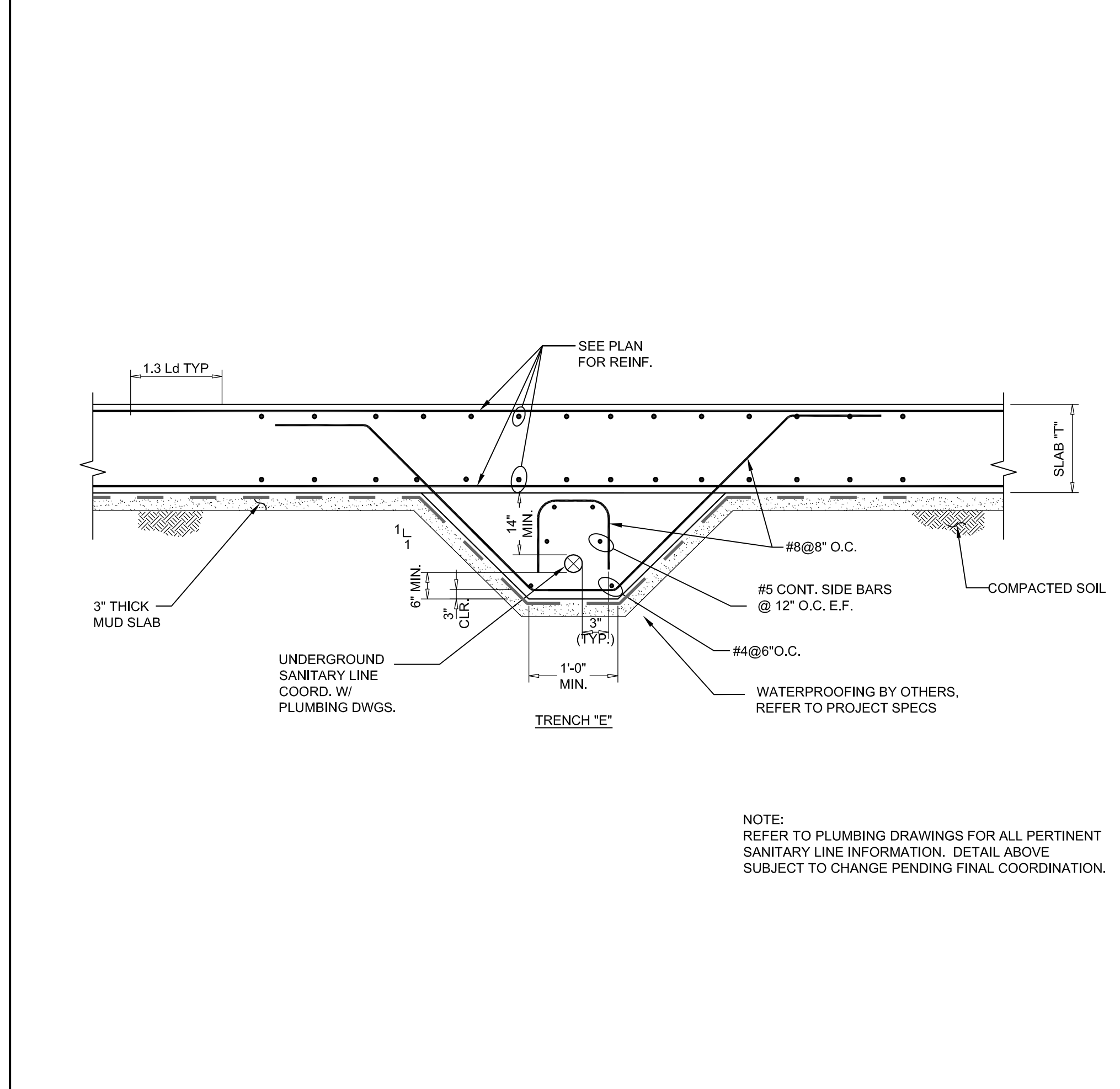
NYC Development Hub



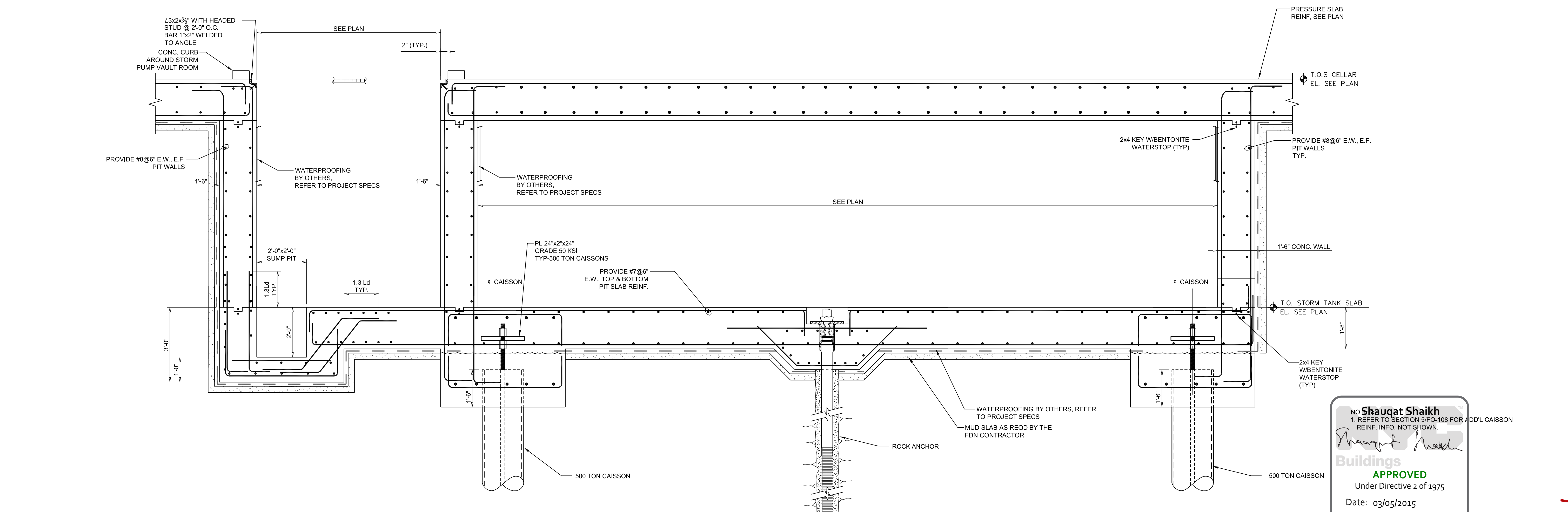
5 SECTION @ EJECTOR PIT
SCALE: 1/2"=1'-0"



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



7 SECTION @ SANITARY LINE TRENCH
SCALE: 1/2"=1'-0"



6 SECTION @ STORM TANK
SCALE: 1/2"=1'-0"

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DOB ESCAN:

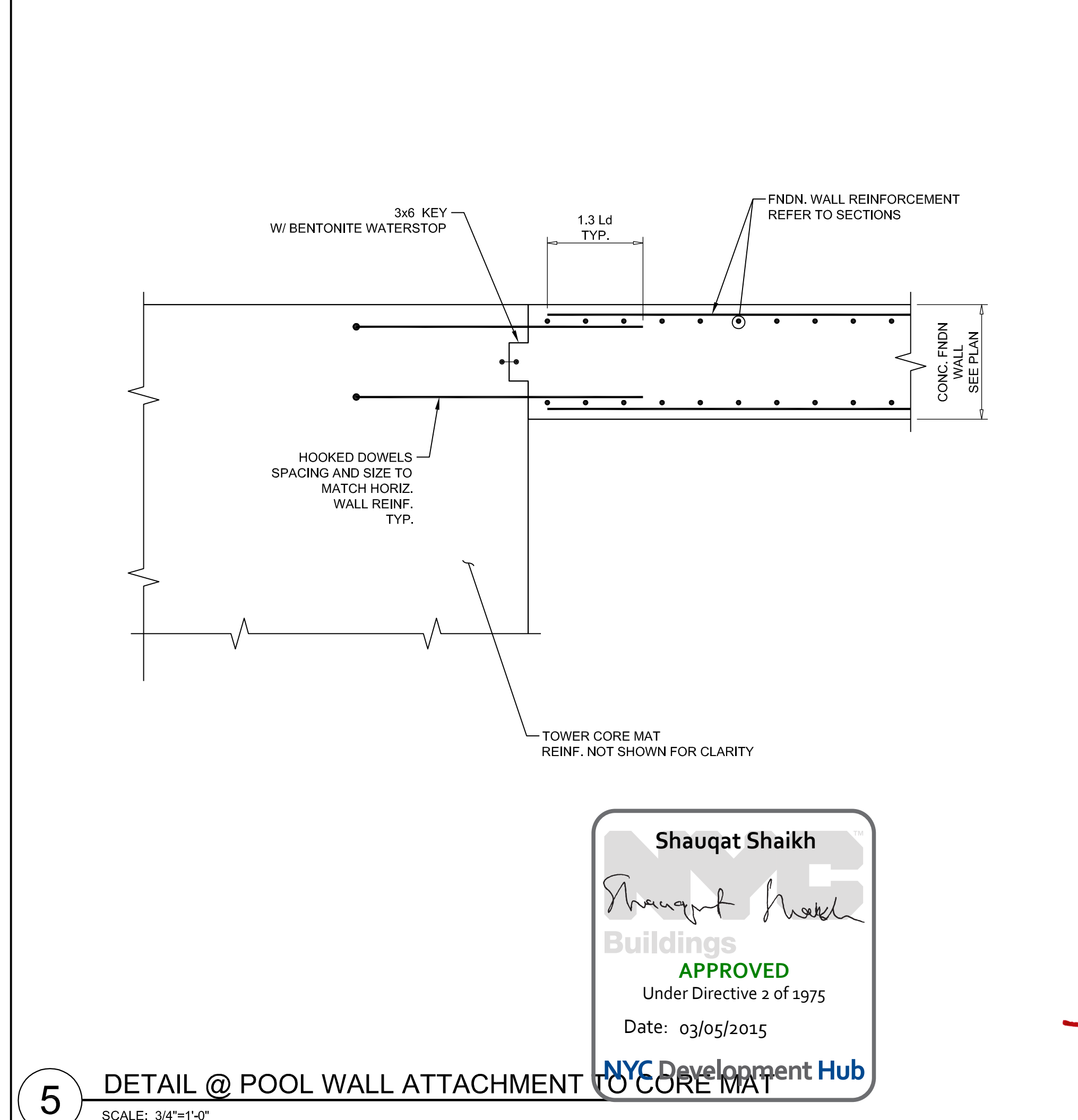
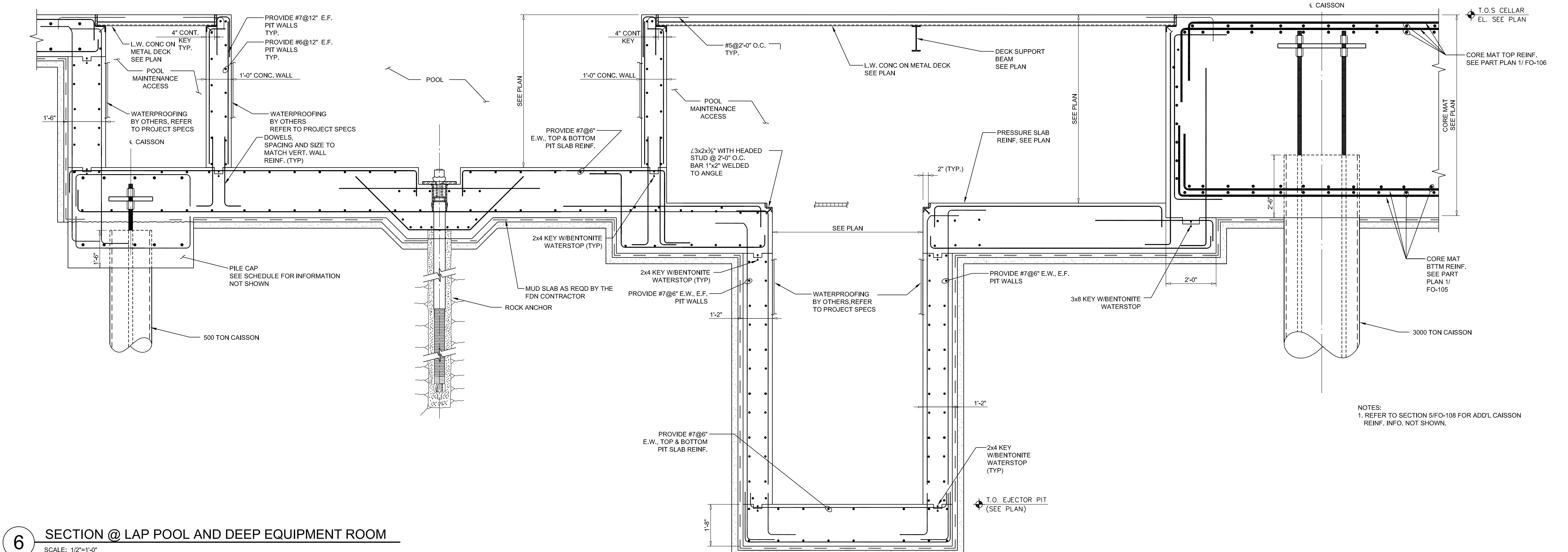
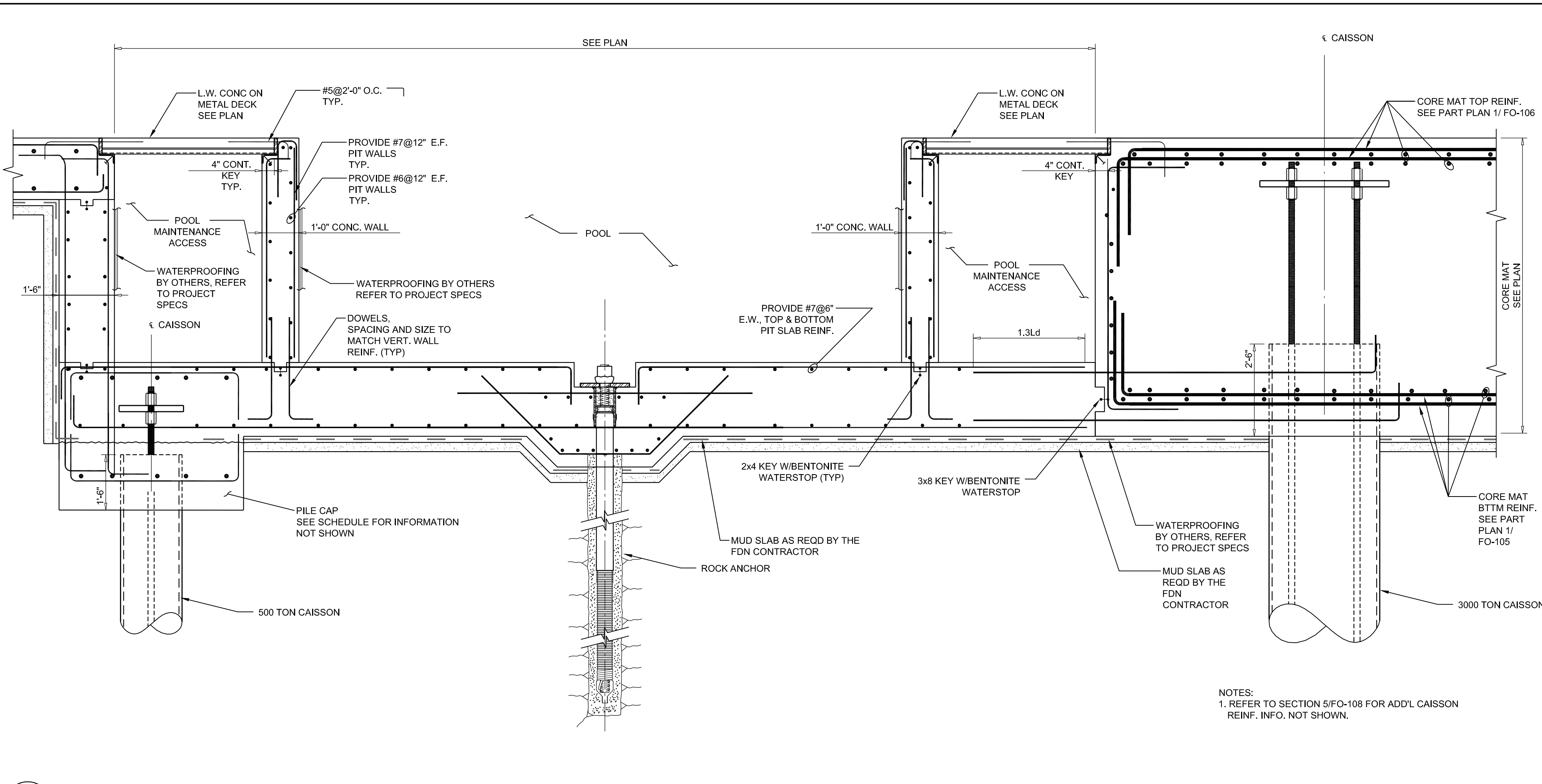
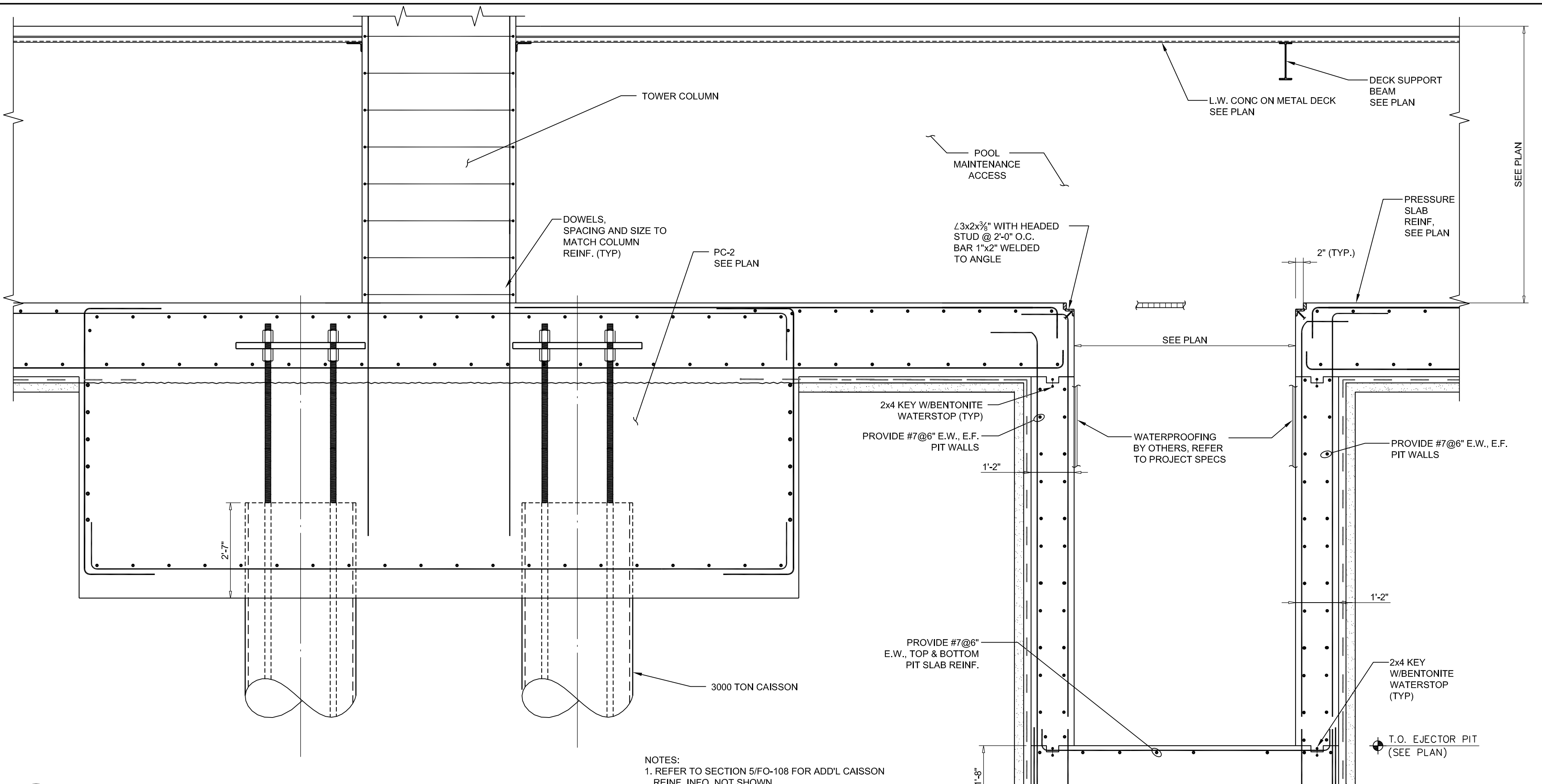
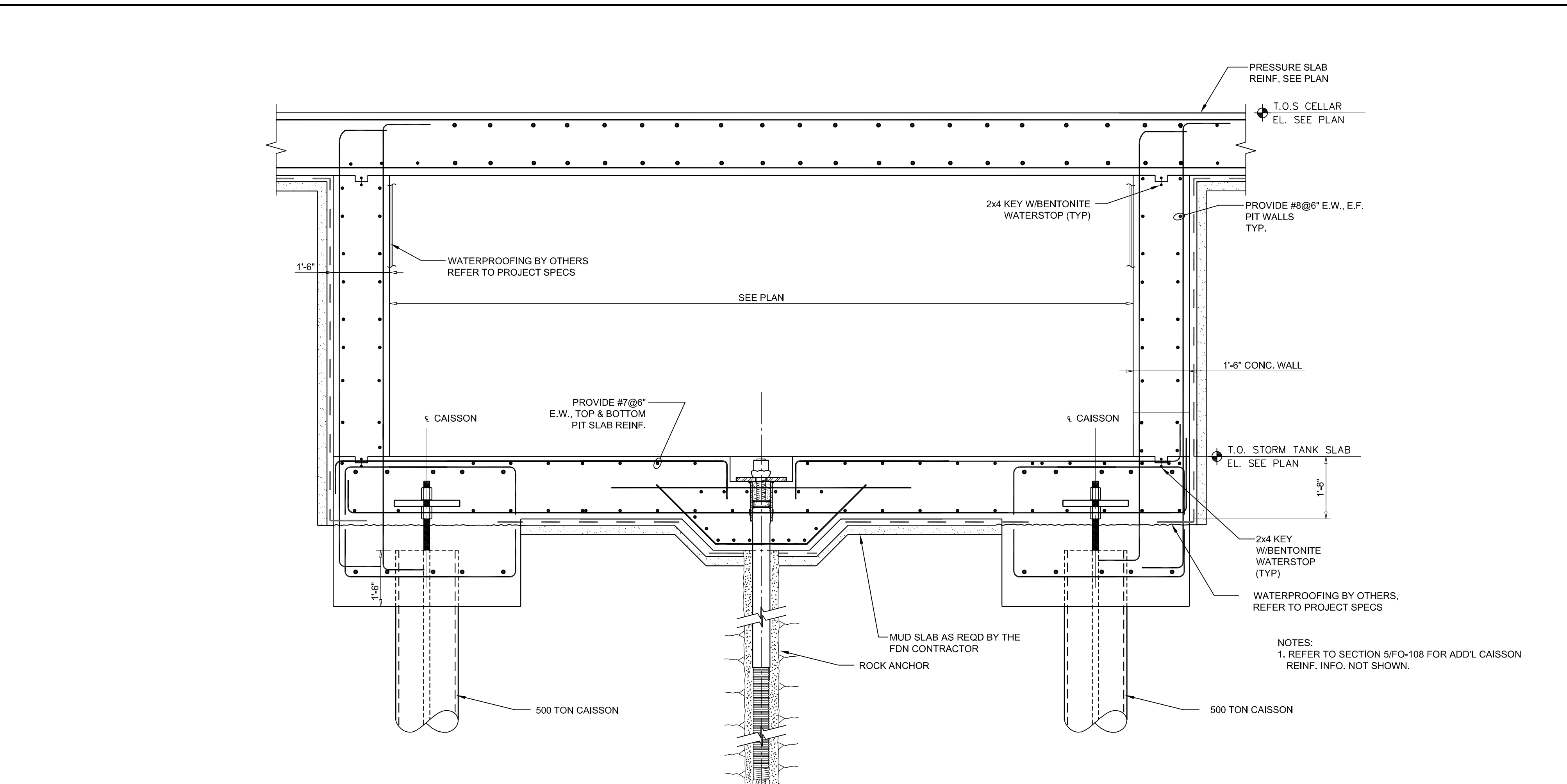
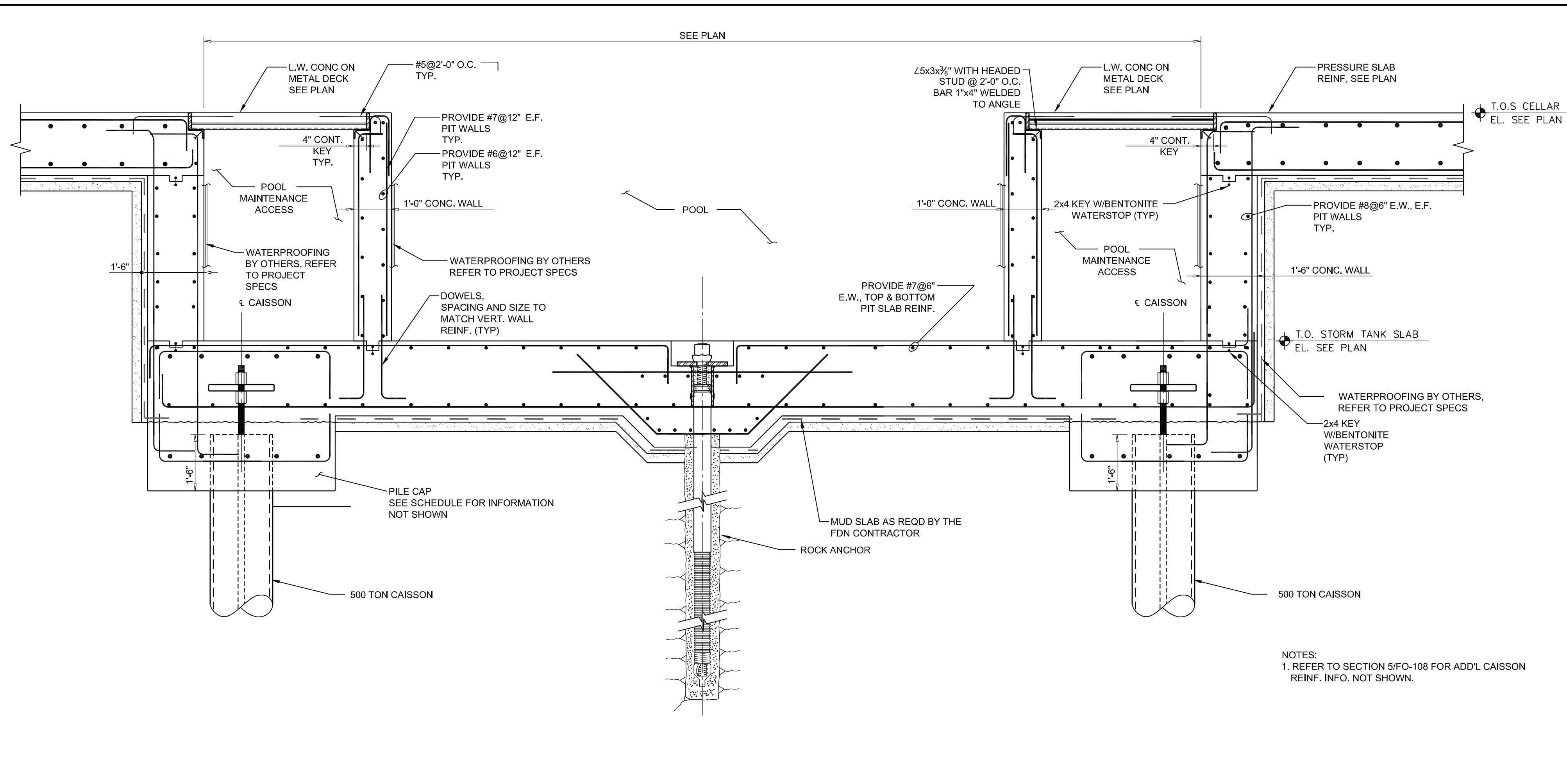
DOB STAMPS & SIGNATURES:

DWG TITLE: **FOUNDATION SECTIONS AND DETAILS**

DATE: 03/05/2015

APPROVED Under Directive 2 of 1975

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KEY PLAN

01/23/15 DOB ISSUE
01/15/15 DOCUMENT ISSUE NO.5
01/09/15 DOCUMENT ISSUE NO.4
11/21/14 DOCUMENT ISSUE NO.2
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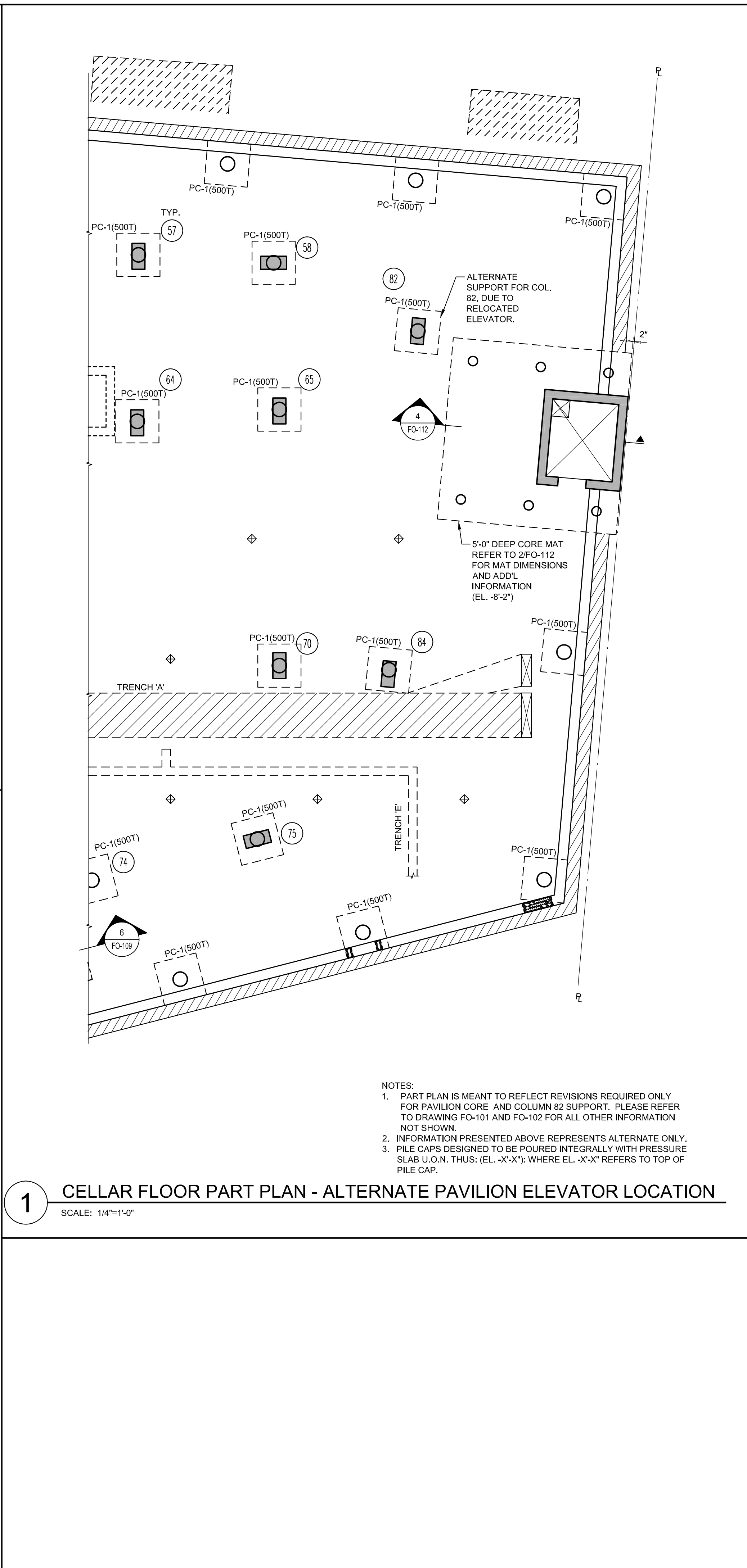
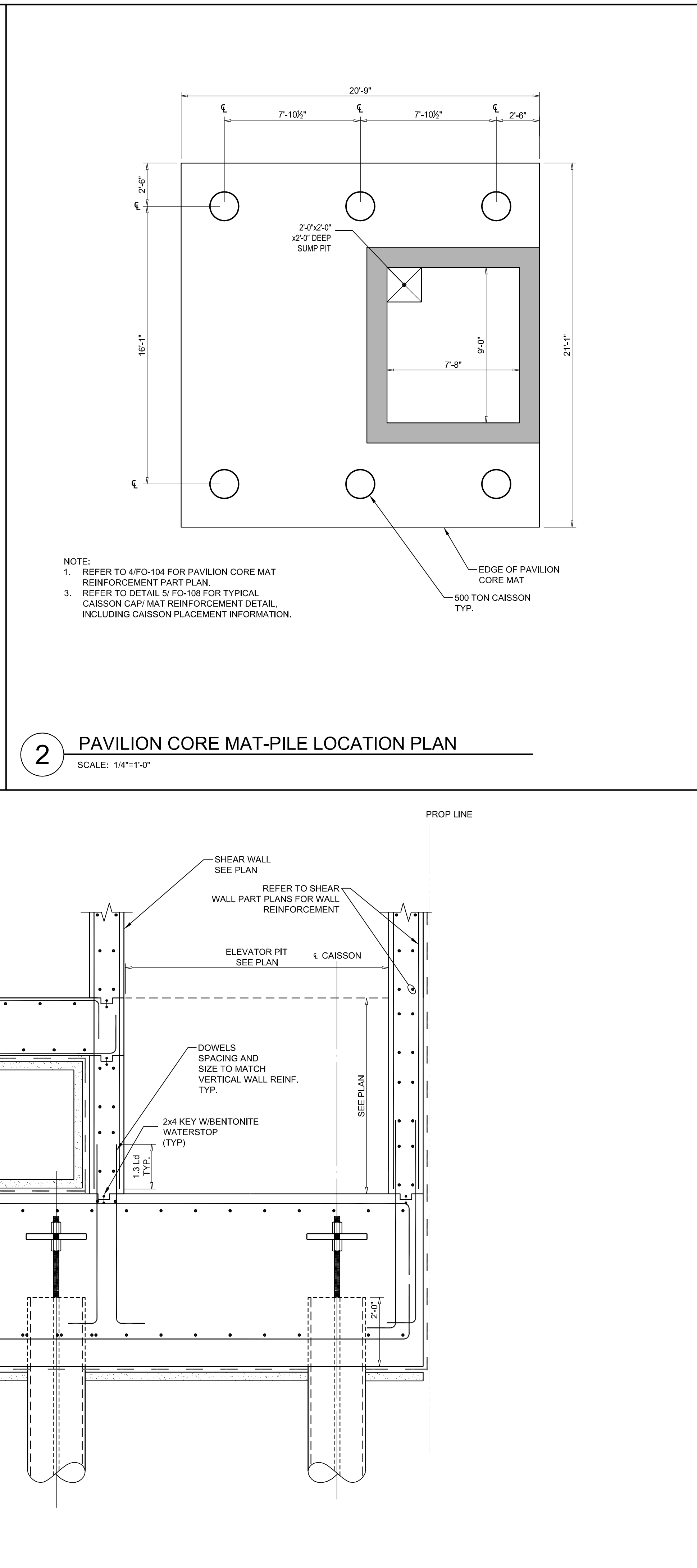
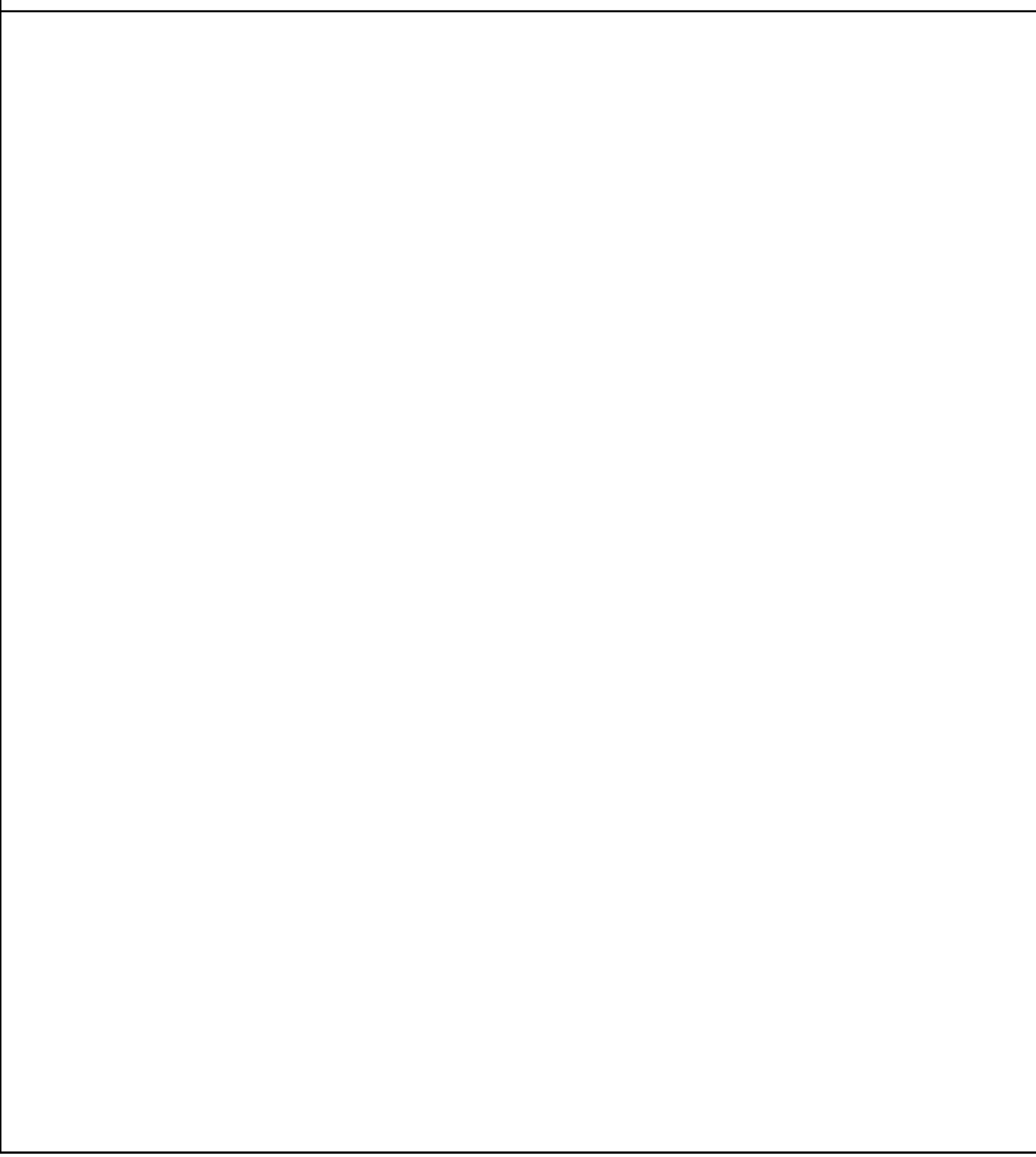
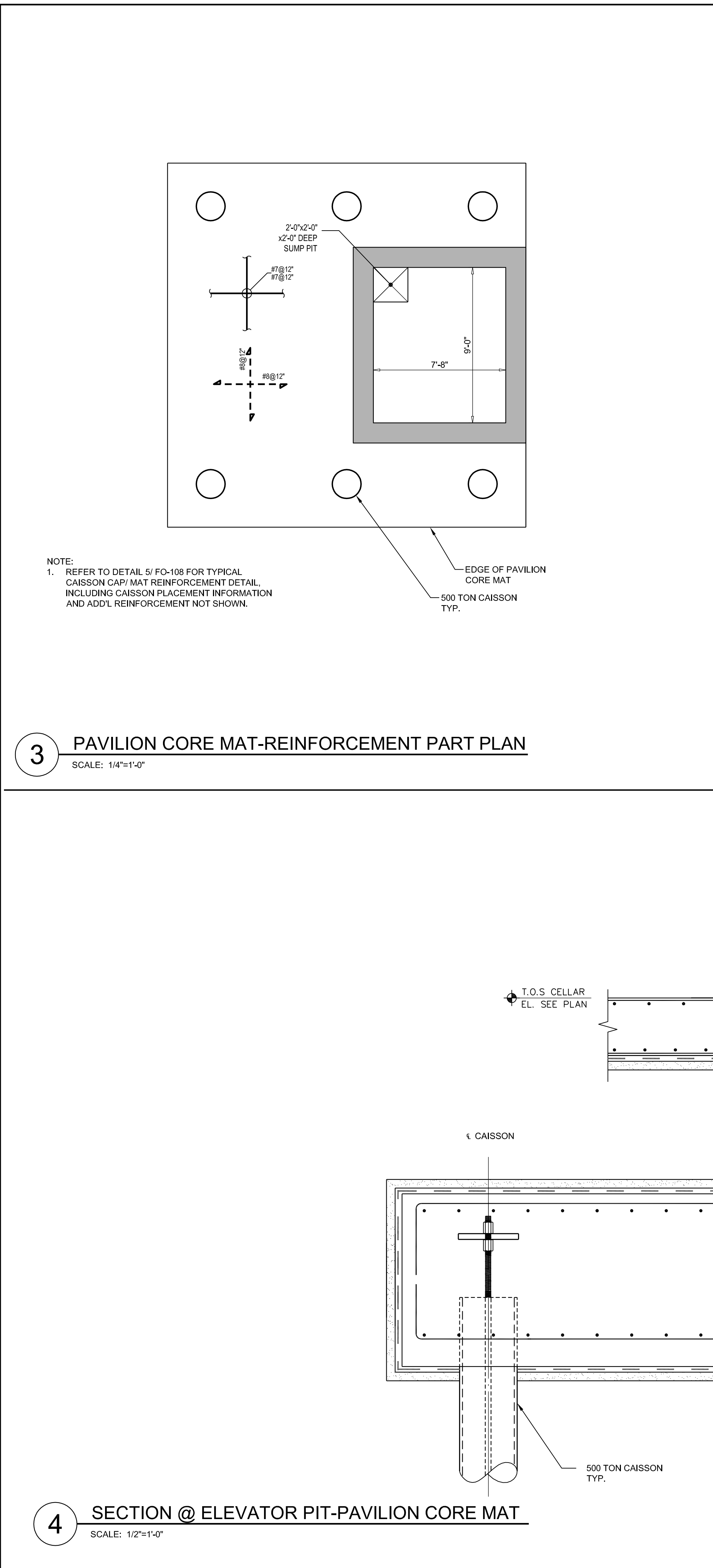
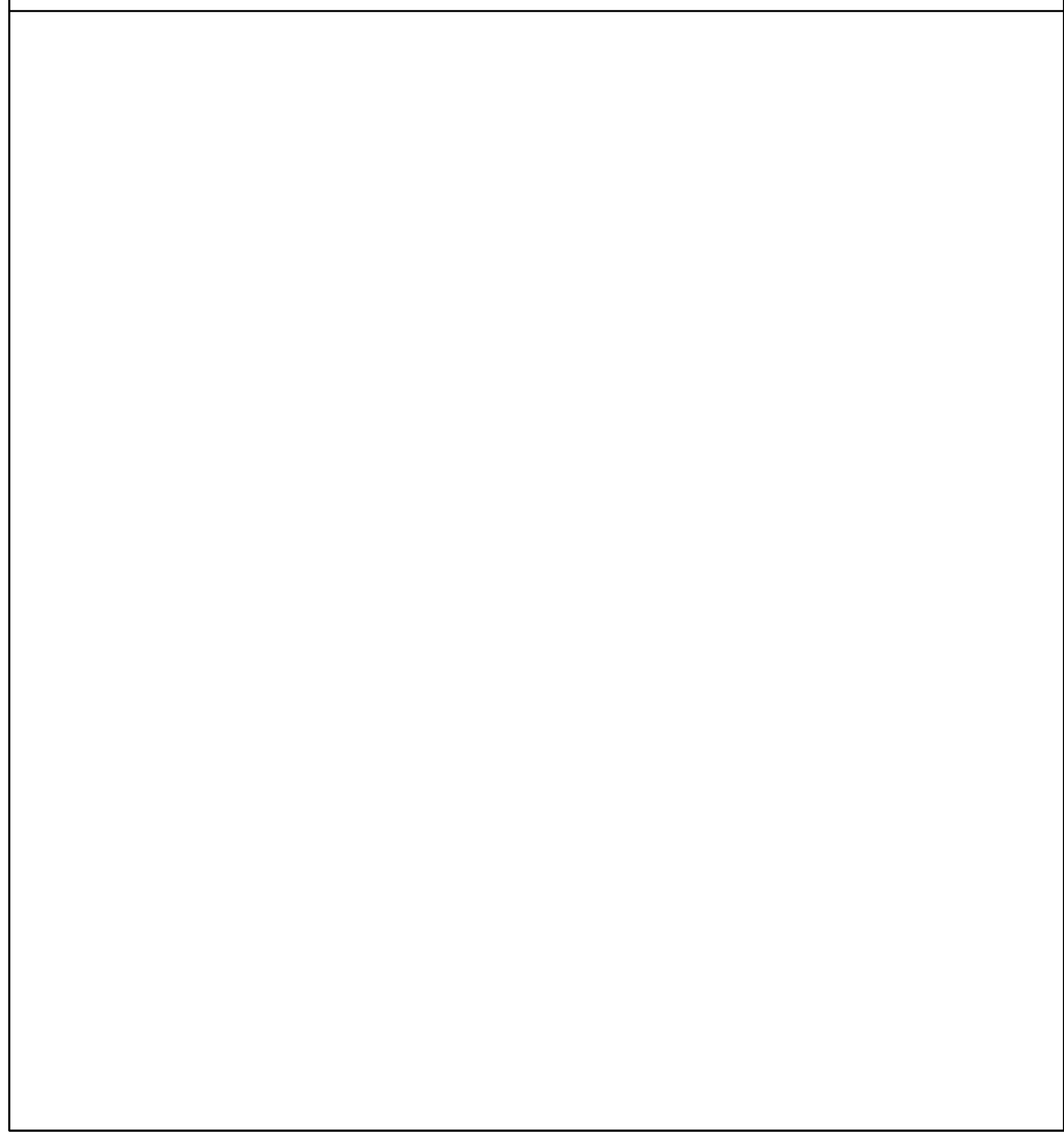
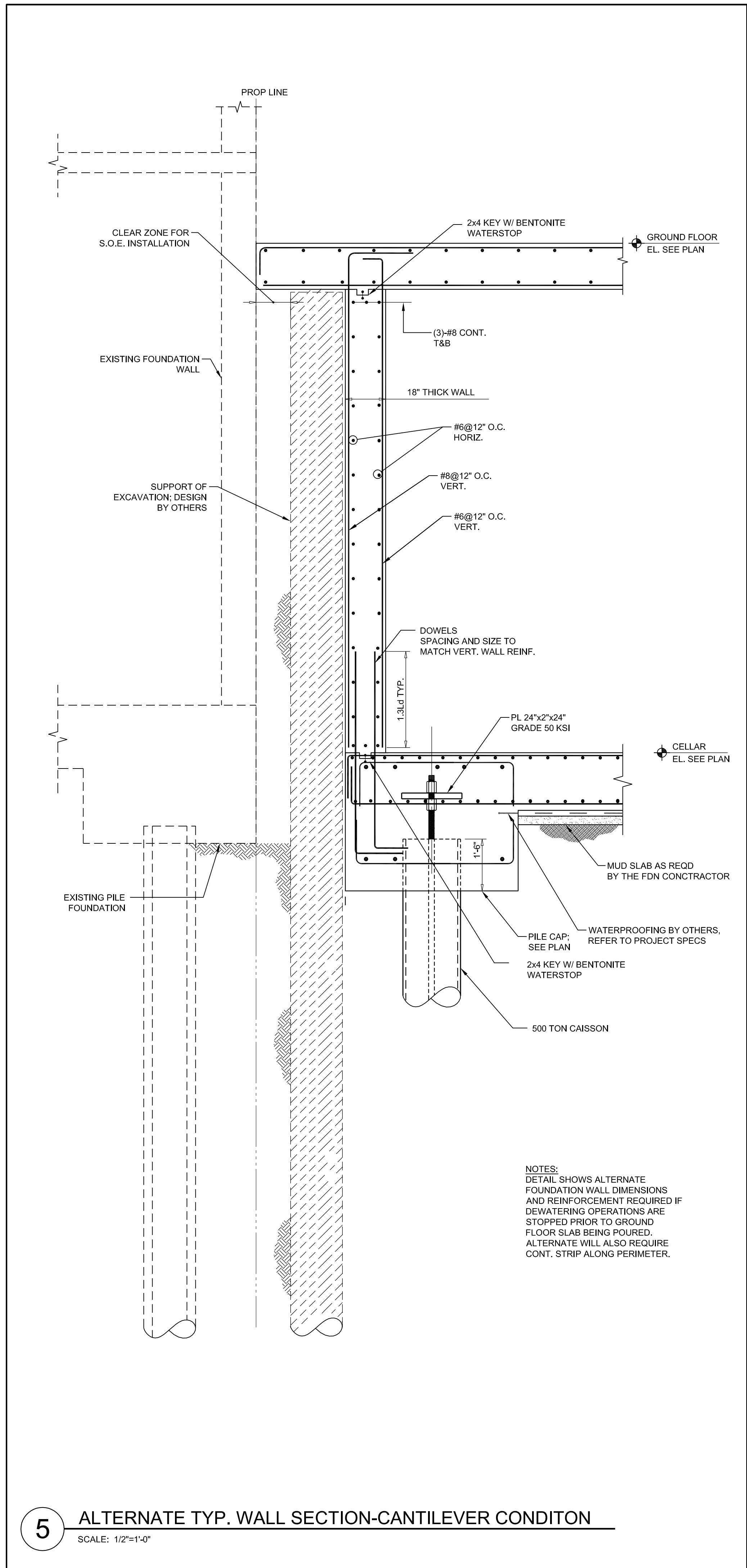
DOB ESCAN: _____

DOB STAMPS & SIGNATURES: _____

DWG TITLE: **FOUNDATION SECTIONS AND DETAILS**

SEAL & SIGNATURE: **Shauqat Shaikh**
Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 03/05/2015
NYC Development Hub

DATE: 03/15/15
PROJECT #: 14077.00
E: AS NOTED
FO-110.00
DWG NO. _____ OF _____



KEY PLAN

01/23/15 DOB ISSUE
01/15/15 DOCUMENT ISSUE NO.5
01/09/15 DOCUMENT ISSUE NO.4

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DOB ESCAN:

DOB STAMPS & SIGNATURES:

DWG TITLE: **FOUNDATION ALTERNATE PLANS, SECTIONS, AND DETAILS**

SEAL & SIGNATURE: **Shauqat Shaikh**
APPROVED
Under Directive 2 of 1975
Date: 03/05/2015
NYC Development Hub

DATE: 01/15/15
PROJECT #: 14077.00
E. AS NOTED
DWG NO. **FO-112.00**