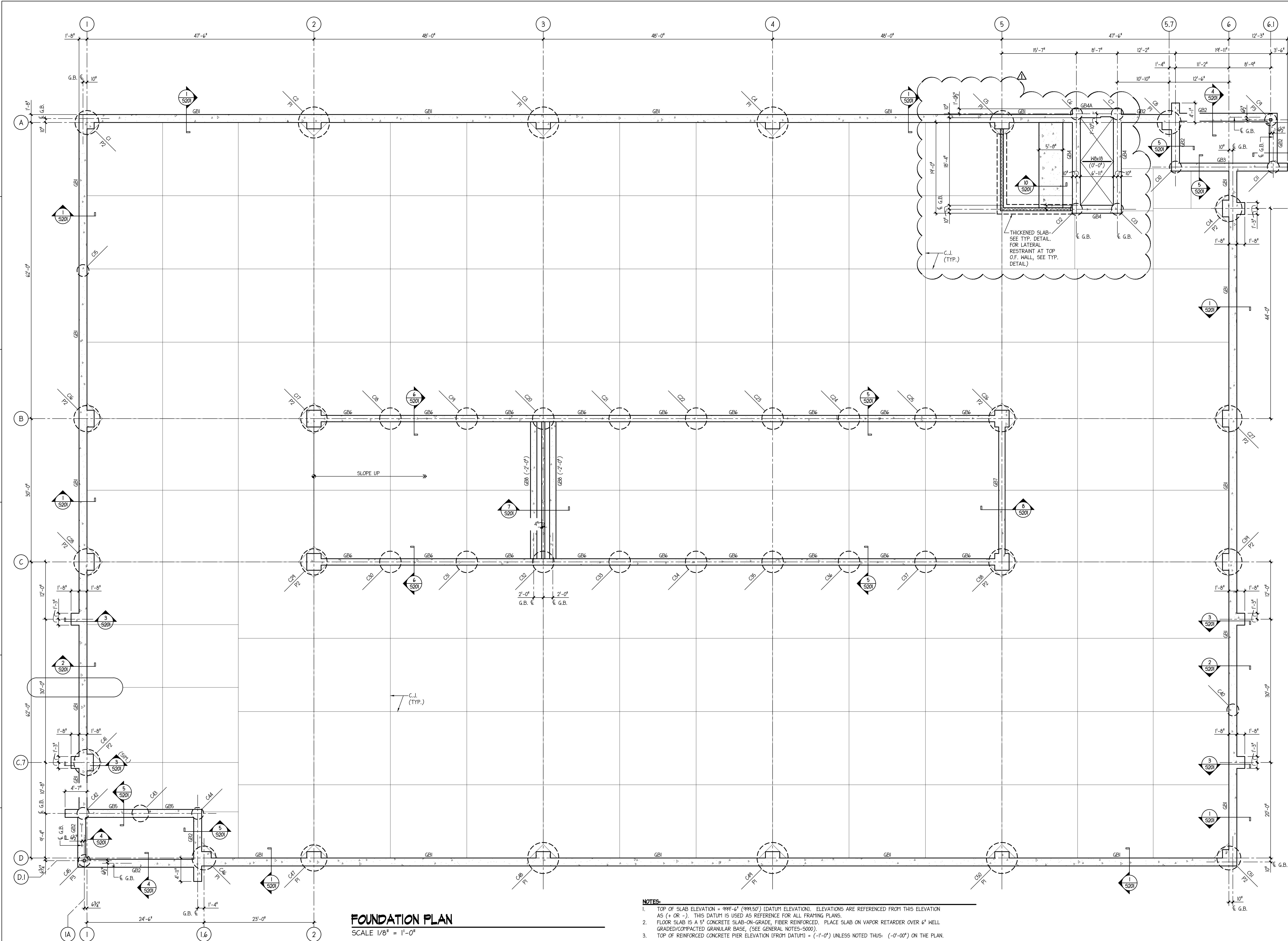
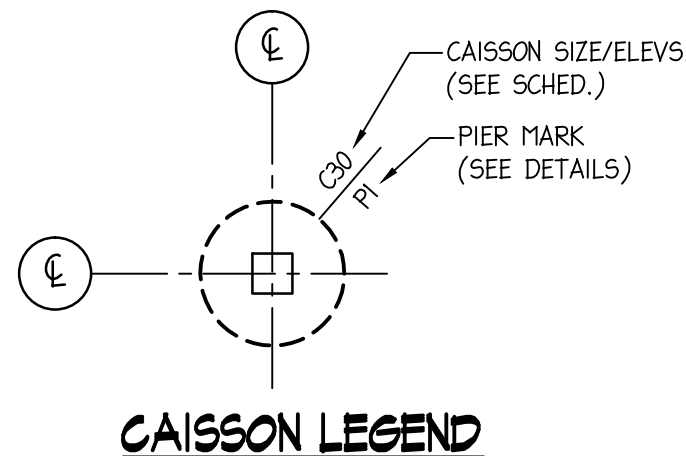


three eighths inch = one foot
one eighth inch = one foot
one quarter inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot



CONCRETE GRADE BEAM SCHEDULE					
MARK	SIZES (INCHES)		REINFORCEMENT		STIRRUPS
	WIDTH	DEPTH	TOP BARS	BOTTOM BARS	
GB1	20	48	(6) - #4	(6) - #4	3 16" O.C.
GB2	20	48	(6) - #4	(5) - #4	3 16" O.C.
GB3	20	72	(6) - #4	(6) - #4	3 16" O.C.
GB4	20	72	(5) - #4	(5) - #4	3 16" O.C.
GB4A	22 1/2	72	(5) - #4	(5) - #4	3 16" O.C.
GB5	20	48	(6) - #4	(6) - #4	4 10" O.C.
GB6	30	60	(4) - #4	(4) - #4	4 16" O.C.
GB7	20	36	(4) - #4	(4) - #4	3 16" O.C.
GB8	16	36	(3) - #4	(3) - #4	3 16" O.C.

CAISSON SCHEDULE				
MARK	CAISSON Ø (Inches)	SKIN FRICTION SOCKET LENGTH	T/ CAISSON	ESTIMATED B/ CAISSON
C1	60	8'-0"	994'-6"	964'-0"
C2	78	9'-0"	994'-6"	963'-0"
C3	78	9'-0"	994'-6"	963'-0"
C4	78	9'-0"	994'-6"	963'-0"
C5	60	8'-6"	994'-6"	965'-6"
C6	30	3'-6"	992'-6"	970'-6"
C7	30	3'-6"	992'-6"	970'-6"
C8	60	-	994'-6"	974'-0"
C9	30	-	994'-6"	975'-0"
C10	30	5'-0"	992'-6"	969'-0"
C11	30	5'-0"	992'-6"	970'-0"
C12	30	-	992'-6"	970'-6"
C13	30	-	992'-6"	970'-6"
C14	66	-	994'-6"	974'-0"
C15	66	-	994'-6"	972'-0"
C16	66	9'-0"	994'-6"	963'-0"
C17	66	9'-6"	993'-6"	962'-6"
C18	54	6'-6"	993'-6"	965'-6"
C19	54	6'-6"	993'-6"	965'-6"
C20	54	7'-0"	993'-6"	965'-0"
C21	54	6'-6"	993'-6"	965'-6"
C22	54	6'-6"	993'-6"	965'-6"
C23	54	6'-6"	993'-6"	965'-6"
C24	54	6'-6"	993'-6"	965'-6"
C25	54	6'-6"	993'-6"	966'-6"
C26	66	9'-6"	994'-6"	963'-6"
C27	66	9'-0"	994'-6"	965'-0"
C28	66	9'-0"	994'-6"	964'-0"
C29	66	9'-6"	993'-6"	962'-6"
C30	54	6'-6"	993'-6"	965'-6"
C31	54	6'-6"	993'-6"	965'-6"
C32	54	7'-0"	993'-6"	965'-0"
C33	54	6'-6"	993'-6"	965'-6"
C34	54	6'-6"	993'-6"	965'-6"
C35	54	6'-6"	993'-6"	965'-6"
C36	54	6'-6"	993'-6"	965'-6"
C37	54	6'-6"	993'-6"	965'-6"
C38	66	9'-6"	993'-6"	963'-6"
C39	66	9'-0"	994'-6"	965'-0"
C40	30	-	994'-6"	973'-0"
C41	66	-	994'-6"	974'-0"
C42	30	-	994'-6"	974'-0"
C43	42	5'-0"	994'-6"	964'-0"
C44	30	3'-6"	994'-6"	970'-6"
C45	30	-	994'-6"	974'-0"
C46	60	-	994'-6"	974'-0"
C47	66	9'-0"	994'-6"	965'-0"
C48	78	9'-0"	994'-6"	964'-0"
C49	78	9'-0"	994'-6"	964'-0"
C50	78	9'-0"	994'-6"	964'-0"
C51	60	8'-0"	994'-6"	965'-0"



- NOTES:
1. TOP OF SLAB ELEVATION = 994'-6" (994.50') (DATUM ELEVATION). ELEVATIONS ARE REFERENCED FROM THIS ELEVATION AS (+ OR -). THIS DATUM IS USED AS REFERENCE FOR ALL FRAMING PLANS.
 2. FLOOR SLAB IS A 5" CONCRETE SLAB-ON-GRADE, FIBER REINFORCED. PLACE SLAB ON VAPOR RETARDER OVER 6" WELL GRADED/COMPACTED GRANULAR BASE. (SEE GENERAL NOTES-5000).
 3. TOP OF REINFORCED CONCRETE PIER ELEVATION (FROM DATUM) = (-1'-0") UNLESS NOTED THIS: (-0'-00") ON THE PLAN.
 4. TOP OF REINFORCED CONCRETE GRADE BEAM ELEVATION (FROM DATUM) = (-1'-0") UNLESS NOTED THIS: (-0'-00") ON THE PLAN.
 5. CONCRETE GRADE BEAMS, PIERS AND CAISSONS SHALL BE CENTERED ON ESTABLISHED GRID LINES, U.N.O.
 6. SEE ARCHITECTURAL DRAWINGS FOR FLOOR FINISHES, DEPRESSIONS, AND SLOPES.

BID CLARIFICATION

Revisions:

8-17-2015

Date

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ARCHITECT/ENGINEERS:

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Drawing Title

FOUNDATION PLAN

Approved: Project Director

Project Title

VA Clarksburg Parking Garage

Location

VAMC Clarksburg West Virginia

Date

4 June 2015

Checked

Drawn

VA Project Number

540-320

IKM Project Number

10-163

Building Number

Drawing Number

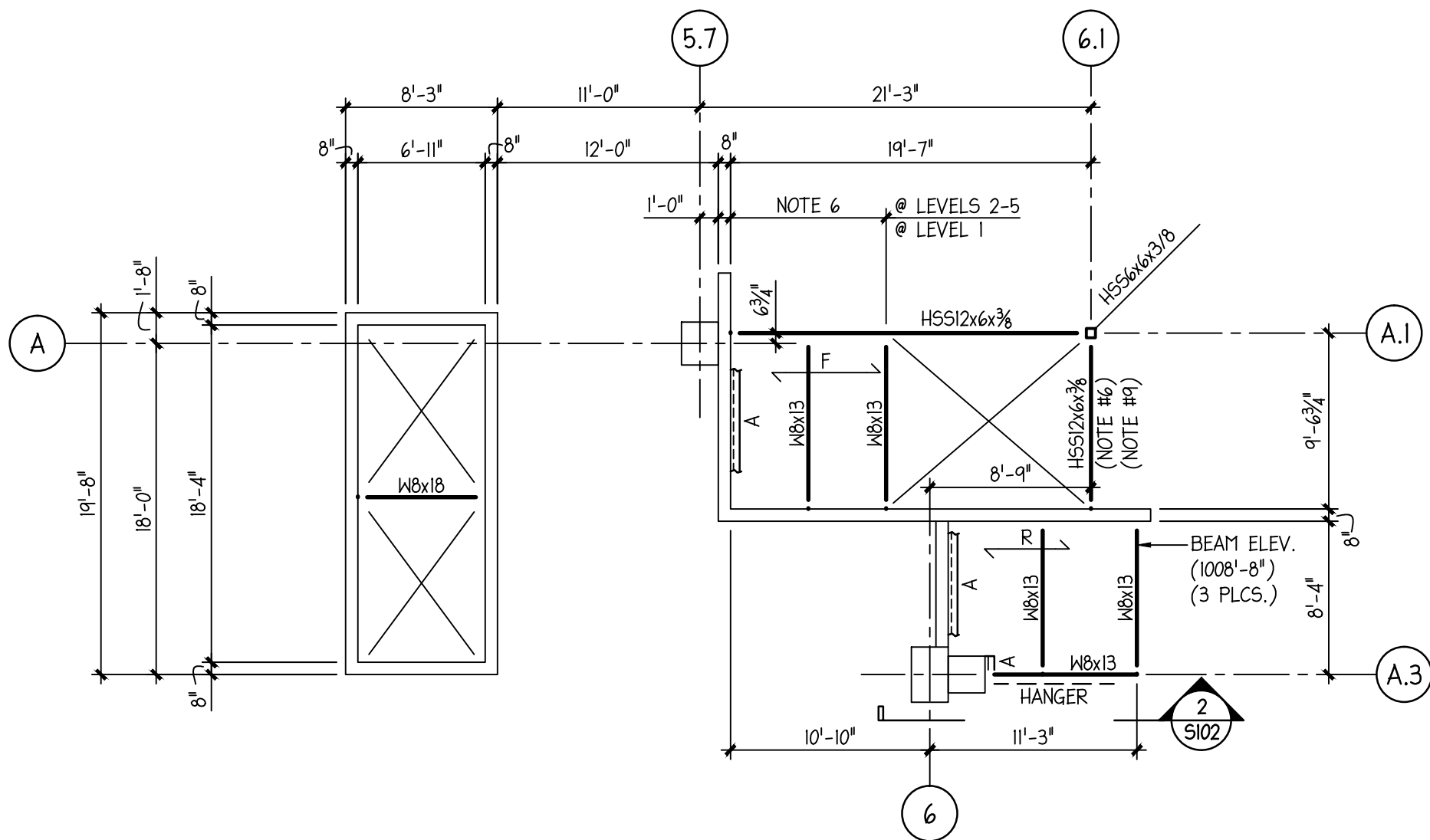
S100

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



STAIR "A" & ELEVATOR FRAMING PLAN

SCALE 1/8" = 1'-0"

- NOTES:**
- TOP OF SLAB ELEVATION: LEVEL 1 = 104'-4", LEVEL 2 = 102'-8", (LEVEL 3 = 103'-0", LEVEL 4 = 106'-4", LEVEL 5 = 105'-8", - FUTURE / N.I.C.)
 - TOP OF STEEL ELEVATION = (-4 1/2") FROM THE REFERENCED TOP OF SLAB ELEVATION. ELEVATIONS THIS PLAN NOTED (+ OR -) ARE REFERENCED FROM THE NOTED TOP OF STEEL ELEVATION, U.N.O.
 - "R" DESIGNATES SPAN DIRECTION OF 2"-20 GAGE GALVANIZED COMPOSITE METAL DECK + 2 1/2" NMC (NORMAL WEIGHT CONCRETE) SLAB REINFORCED WITH 6#6 - W14 x W14 WAF; (4 1/2" TOTAL THICKNESS).
 - "A" DESIGNATED ALONG WALL INDICATES ANGLE SUPPORT FOR SLAB/DECK AT WALL. SEE TYPICAL DETAIL. SEE ARCHITECTURAL DRAWINGS FOR FLOOR FINISHES, DEPRESSIONS AND SLOPE OF SLABS.
 - STEEL BEAM DIMENSIONS AND ELEVATIONS SHALL BE COORDINATED WITH THE STAIR AND PRECAST CONCRETE MANUFACTURERS.
 - COORDINATE EDGE OF SLAB (EOS) DIMENSIONS WITH THE ARCHITECT.
 - "R" DESIGNATES SPAN DIRECTION OF 1 1/2" - 20 GAGE GALVANIZED WIDE-RIB (TYPE B) METAL ROOF DECK. PROVIDE THIS MEMBER ABOVE LEVEL 4.

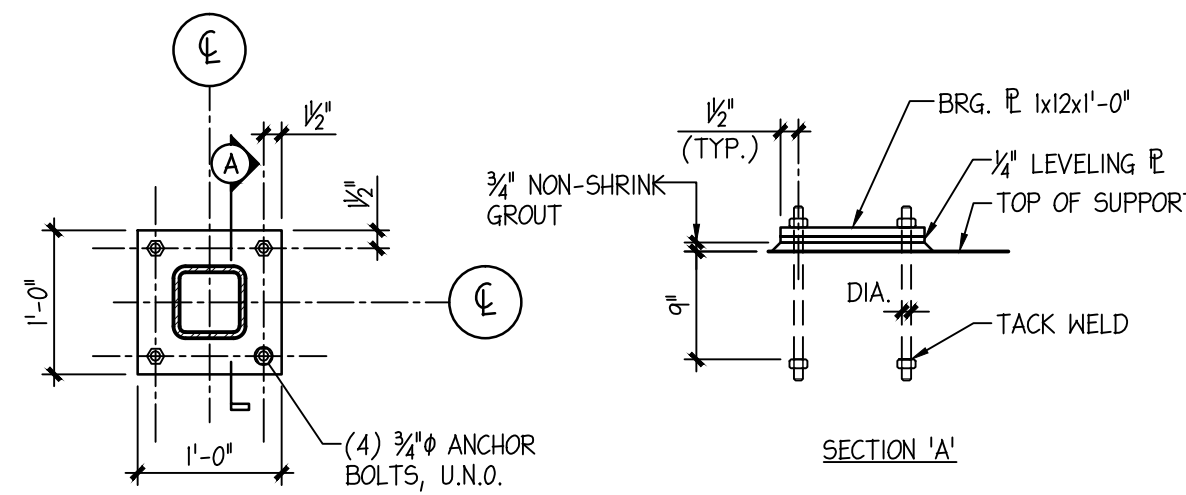
STAIR "B" FRAMING PLAN

SCALE 1/8" = 1'-0"

- NOTES:**
- TOP OF SLAB ELEVATION: LEVEL 1 = 104'-4", LEVEL 2 = 102'-8", (LEVEL 3 = 103'-0", LEVEL 4 = 106'-4", LEVEL 5 = 105'-8", - FUTURE / N.I.C.)
 - TOP OF STEEL ELEVATION = (-4 1/2") FROM THE REFERENCED TOP OF SLAB ELEVATION. ELEVATIONS THIS PLAN NOTED (+ OR -) ARE REFERENCED FROM THE NOTED TOP OF STEEL ELEVATION.
 - "R" DESIGNATES SPAN DIRECTION OF 2"-20 GAGE GALVANIZED COMPOSITE METAL DECK + 2 1/2" NMC (NORMAL WEIGHT CONCRETE) SLAB REINFORCED WITH 6#6 - W14 x W14 WAF; (4 1/2" TOTAL THICKNESS).
 - "A" DESIGNATED ALONG WALL INDICATES ANGLE SUPPORT FOR SLAB/DECK AT WALL. SEE TYPICAL DETAIL. SEE ARCHITECTURAL DRAWINGS FOR FLOOR FINISHES, DEPRESSIONS AND SLOPE OF SLABS.
 - STEEL BEAM DIMENSIONS AND ELEVATIONS SHALL BE COORDINATED WITH THE STAIR AND PRECAST CONCRETE MANUFACTURERS.
 - COORDINATE EDGE OF SLAB (EOS) DIMENSIONS WITH THE ARCHITECT.
 - PROVIDE THIS MEMBER ABOVE LEVEL 4.

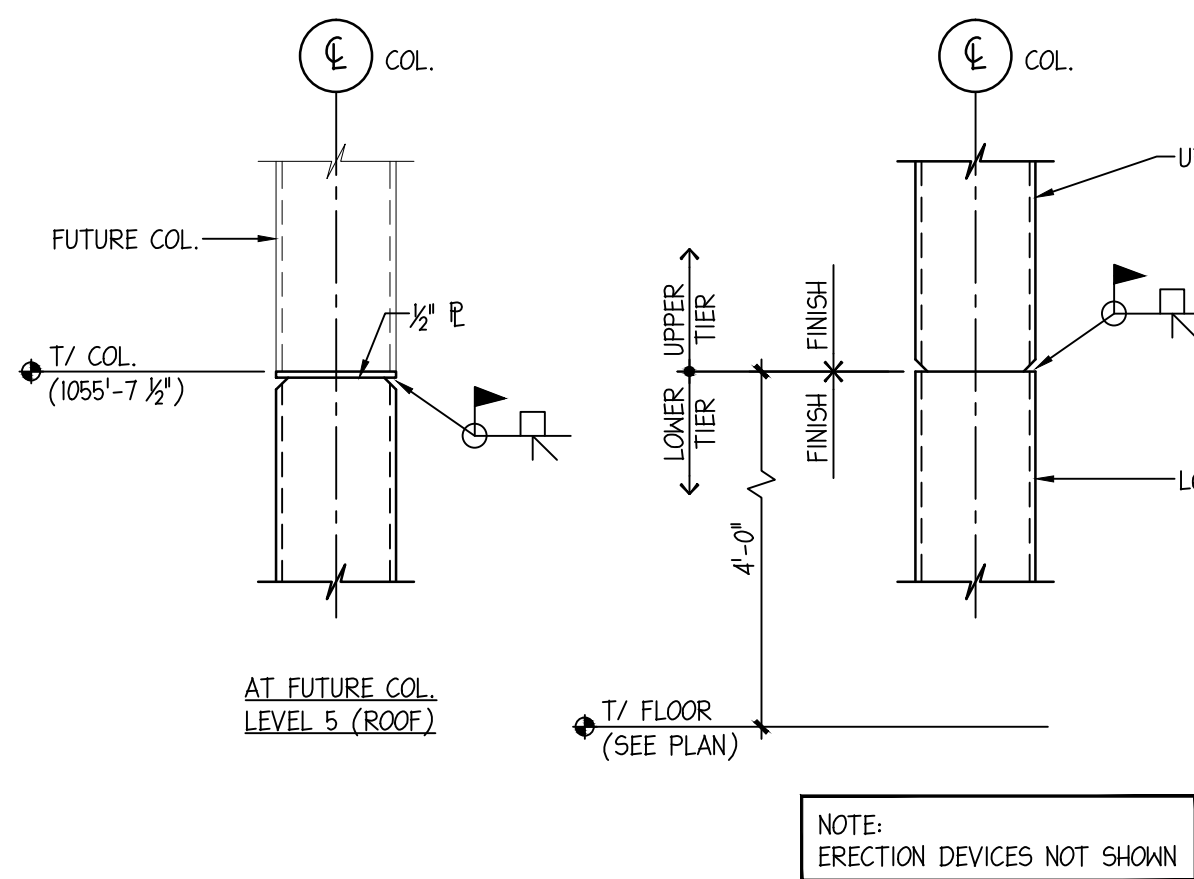
HSS COLUMN BASE PLATE & SETTING DETAIL

NOT TO SCALE



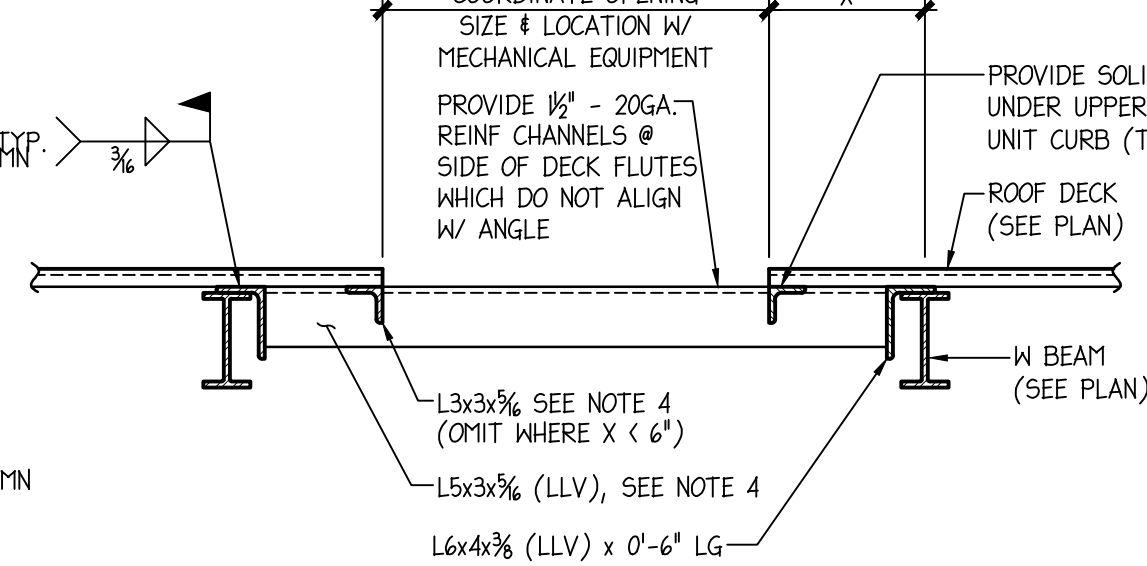
HSS COLUMN WELDED SPLICE DETAIL

NOT TO SCALE

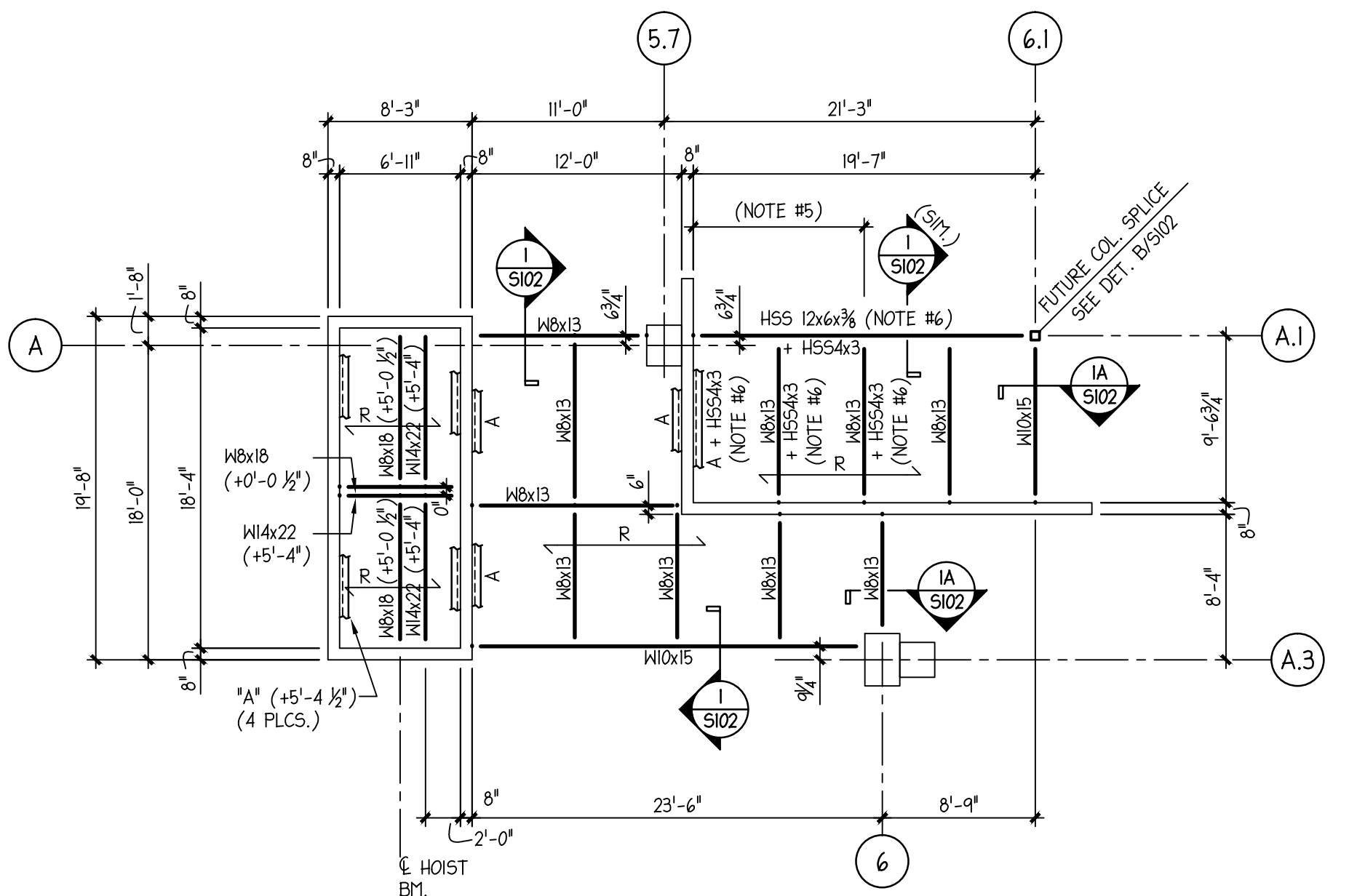


FRAMING AT ROOF OPENINGS

NOT TO SCALE



- NOTES:**
- PROVIDE FRAME AT OPENING WHERE ANY OPENING DIMENSION EXCEEDS 1'-0"
 - WHEN JOIST SPACING EXCEEDS 6'-0", VERIFY ALL ANGLE SIZES W/ ENGINEER
 - COORDINATE OPENING DIMENSIONS, LOCATIONS, AND CURB CONSTRUCTION W/ ARCH. & MECH. DMG'S.
 - PROVIDE 1/2" x 20GA REINF CHANNELS @ SIDE OF DECK FLUTES WHICH DO NOT ALIGN W/ ANGLE
 - WHERE UNIT LENGTH PARALLEL TO JOIST EXCEEDS 6'-0" PROVIDE 1/2" x 20GA REINF CHANNELS @ 6'-0" O.C. TO SUPPORT UNIT CURB ANGLE.
 - WHERE ROOF STEEL SLOPES, CURB HEIGHTS MUST VARY TO PROVIDE A LEVEL SURFACE



STAIR "A" & ELEVATOR ROOF FRAMING PLAN

SCALE 1/8" = 1'-0"

- NOTES:**
- TOP OF STEEL BEAM ELEVATION = 1035'-0". ELEVATIONS THIS PLAN NOTED (+ OR -) ARE REFERENCED FROM THIS ELEVATION.
 - "R" DESIGNATES SPAN DIRECTION OF 1 1/2" - 20 GAGE GALVANIZED WIDE-RIB (TYPE B) METAL ROOF DECK.
 - "A" DESIGNATED ALONG WALL INDICATES ANGLE SUPPORT FOR FUTURE SLAB (N.I.C.) AT WALL. SEE TYPICAL DETAIL.
 - COORDINATE ROOF PENETRATIONS NOT SHOWN WITH THE MECH. DRAWINGS, RESPECTIVE CONTRACTORS AND TYPICAL FRAMING DETAIL. PROVIDE ANGLE FRAMING AT ROOF PENETRATIONS AND UNDER MECHANICAL UNITS. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS. COORDINATE EXACT LOCATIONS AND DIMENSIONS WITH THE MECHANICAL CONTRACTOR.
 - STEEL BEAM LOCATION SHALL BE COORDINATED WITH THE STAIR AND PRECAST CONCRETE MANUFACTURERS.
 - H5543W3/4 FILLER, CENTERED, AT TOP OF MEMBER. REMOVE H55 IN FUTURE FOR LEVEL 5 STAIR CONSTRUCTION.

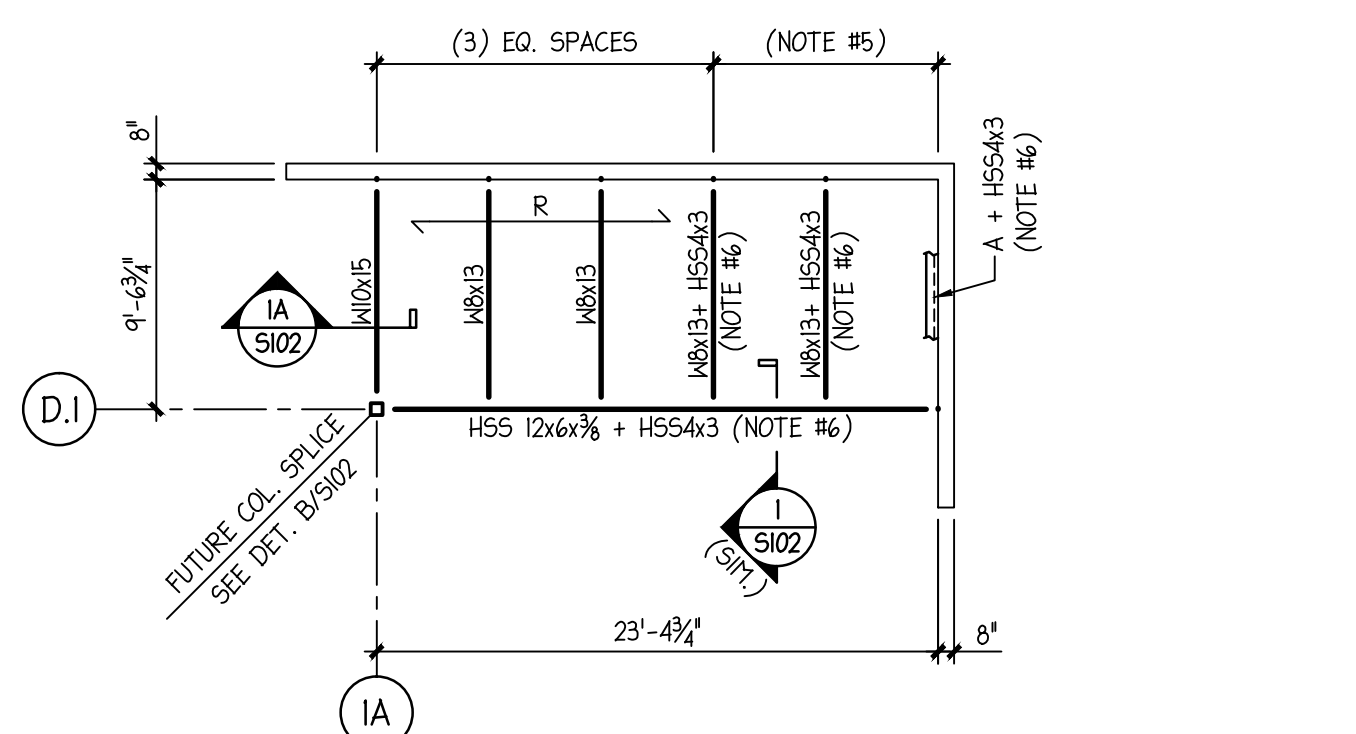
STAIR "B" ROOF FRAMING PLAN

SCALE 1/8" = 1'-0"

- NOTES:**
- TOP OF STEEL BEAM ELEVATION = 1035'-0". ELEVATIONS THIS PLAN NOTED (+ OR -) ARE REFERENCED FROM THIS ELEVATION.
 - "R" DESIGNATES SPAN DIRECTION OF 1 1/2" - 20 GAGE GALVANIZED WIDE-RIB (TYPE B) METAL ROOF DECK.
 - "A" DESIGNATED ALONG WALL INDICATES ANGLE SUPPORT FOR FUTURE SLAB (N.I.C.) AT WALL. SEE TYPICAL DETAIL.
 - COORDINATE ROOF PENETRATIONS NOT SHOWN WITH THE MECH. DRAWINGS, RESPECTIVE CONTRACTORS AND TYPICAL FRAMING DETAIL. PROVIDE ANGLE FRAMING AT ROOF PENETRATIONS AND UNDER MECHANICAL UNITS. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS. COORDINATE EXACT LOCATIONS AND DIMENSIONS WITH THE MECHANICAL CONTRACTOR.
 - STEEL BEAM LOCATION SHALL BE COORDINATED WITH THE STAIR AND PRECAST CONCRETE MANUFACTURERS.
 - H5543W3/4 FILLER, CENTERED, AT TOP OF MEMBER. REMOVE H55 IN FUTURE FOR LEVEL 5 STAIR CONSTRUCTION.

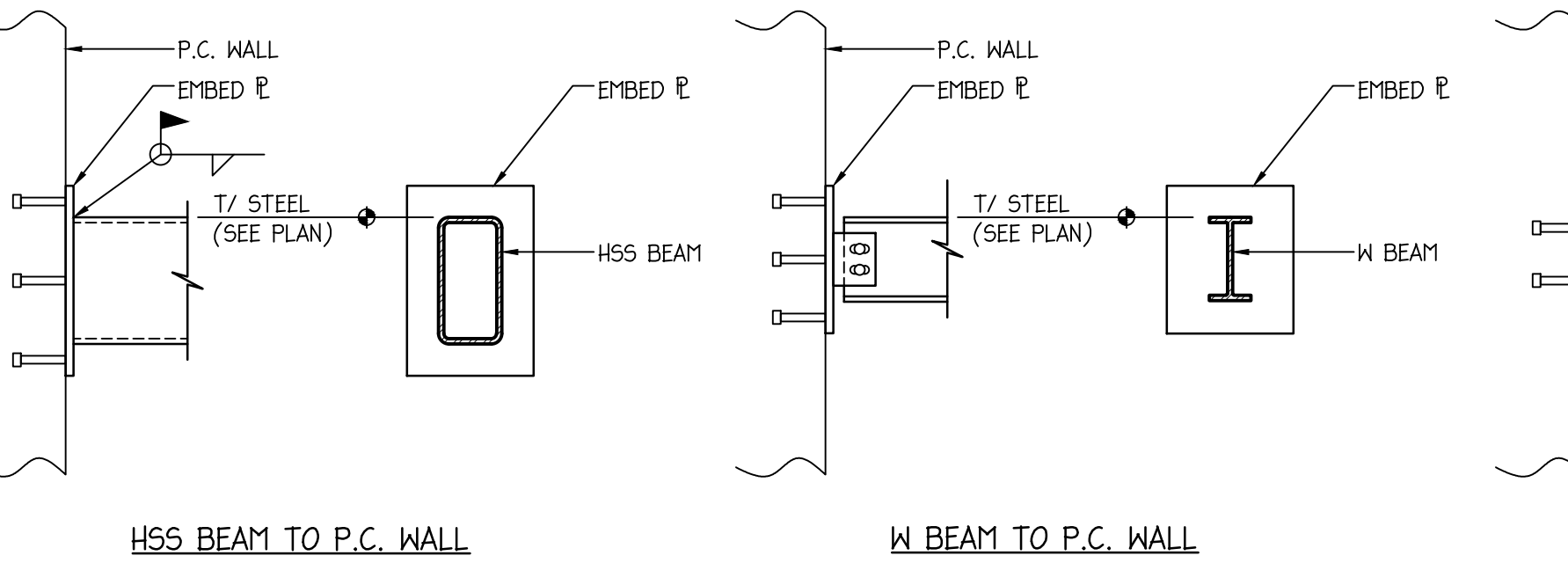
SLAB BEARING @ PRECAST CONC.

NOT TO SCALE (NOTED "A" ON PLAN)



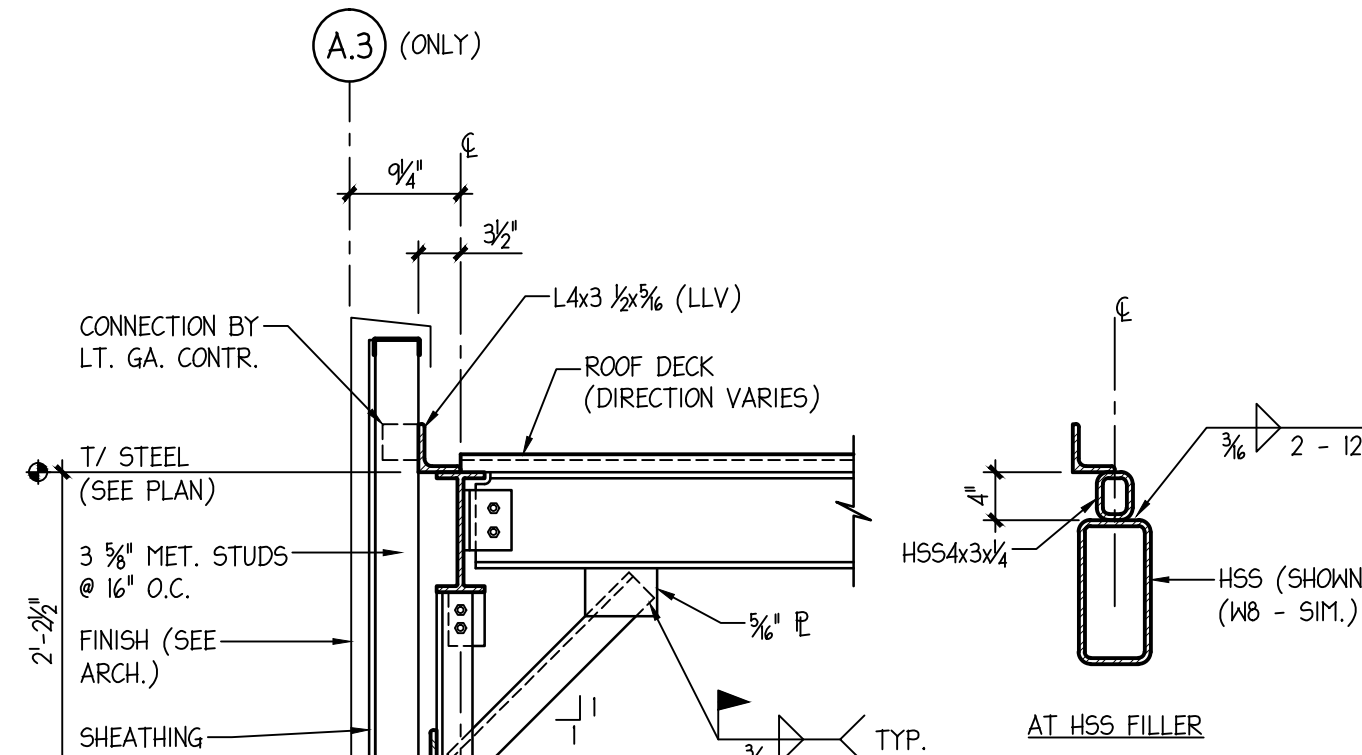
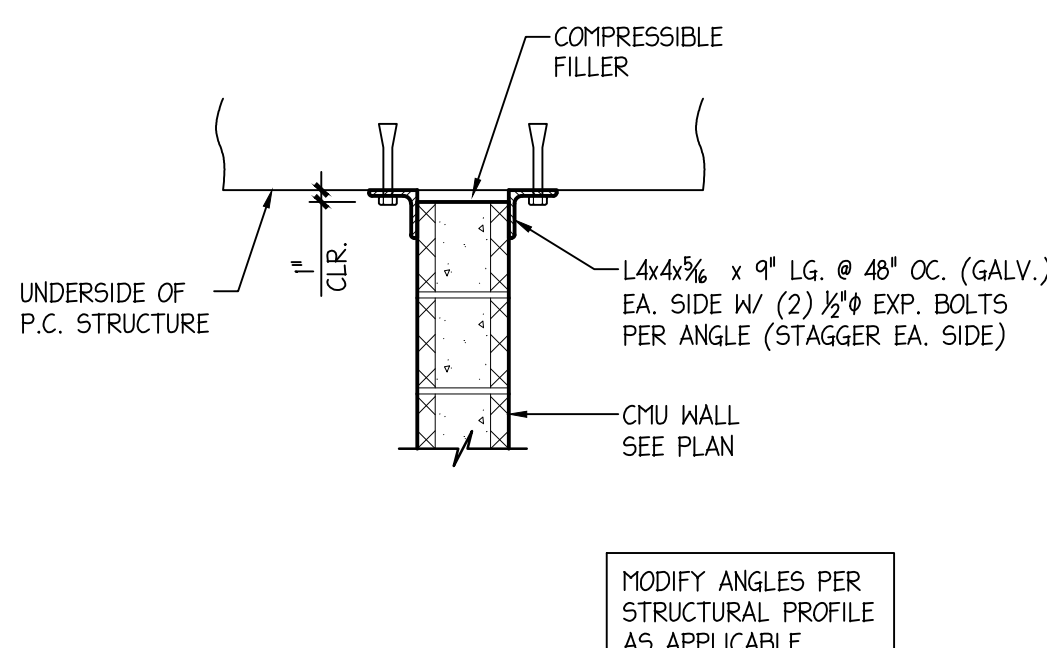
ROOF DECK BEARING AT P.C. WALL DETAIL

NOT TO SCALE (NOTED "A" ON PLAN)



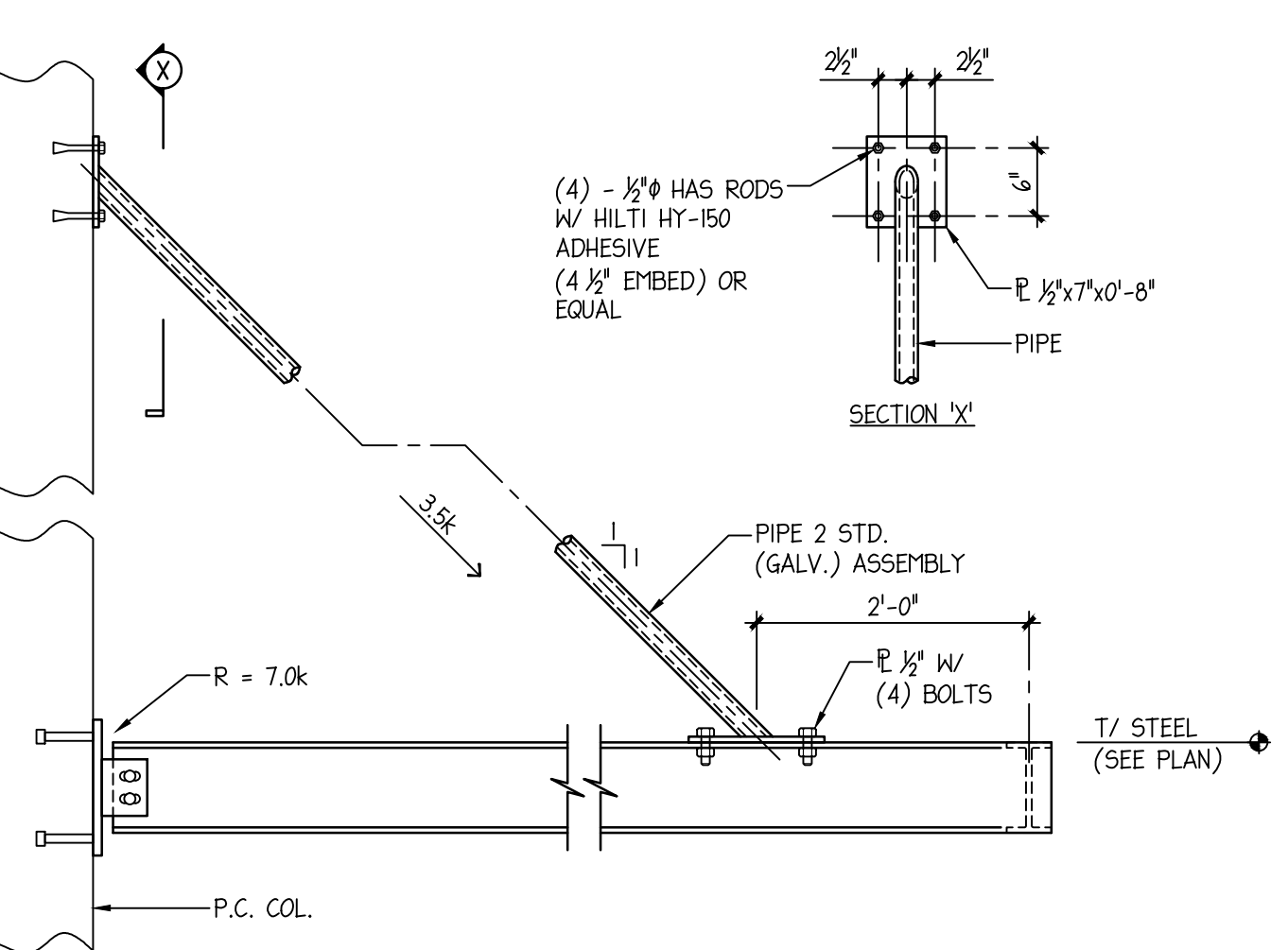
CMU PARTITION SUPPORT AT P.C.

NOT TO SCALE



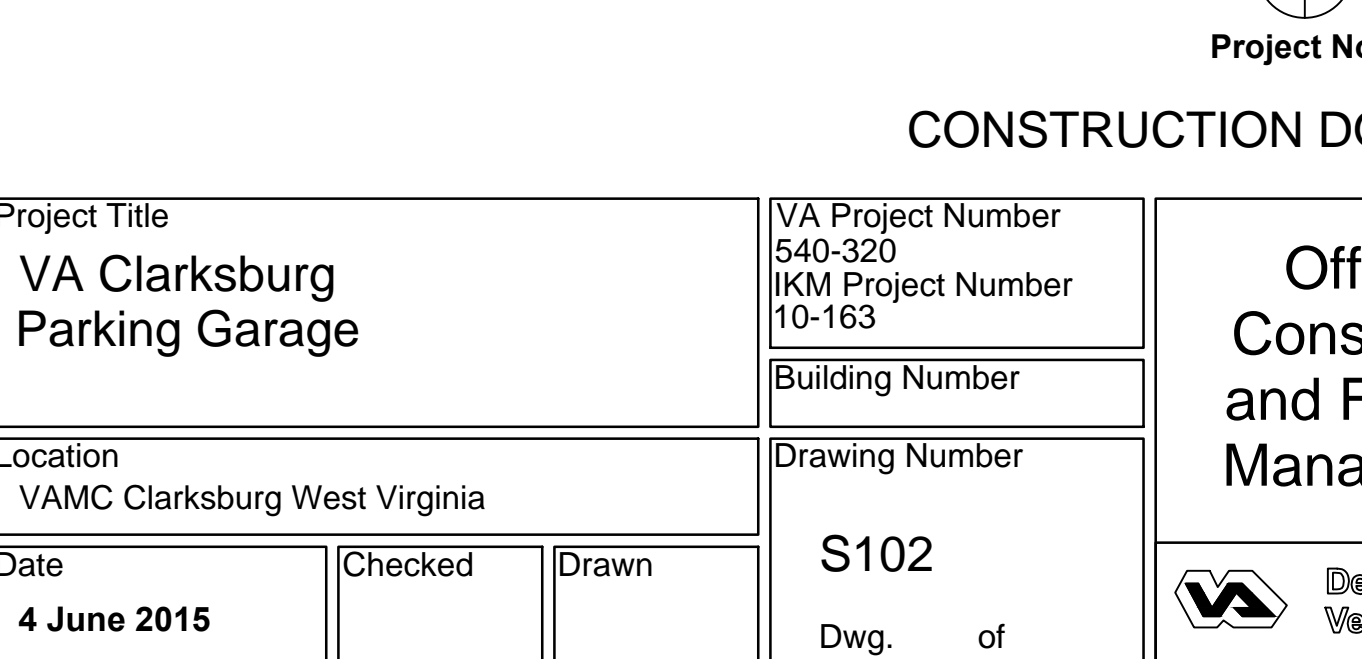
SECTION

SCALE 3/4" = 1'-0"



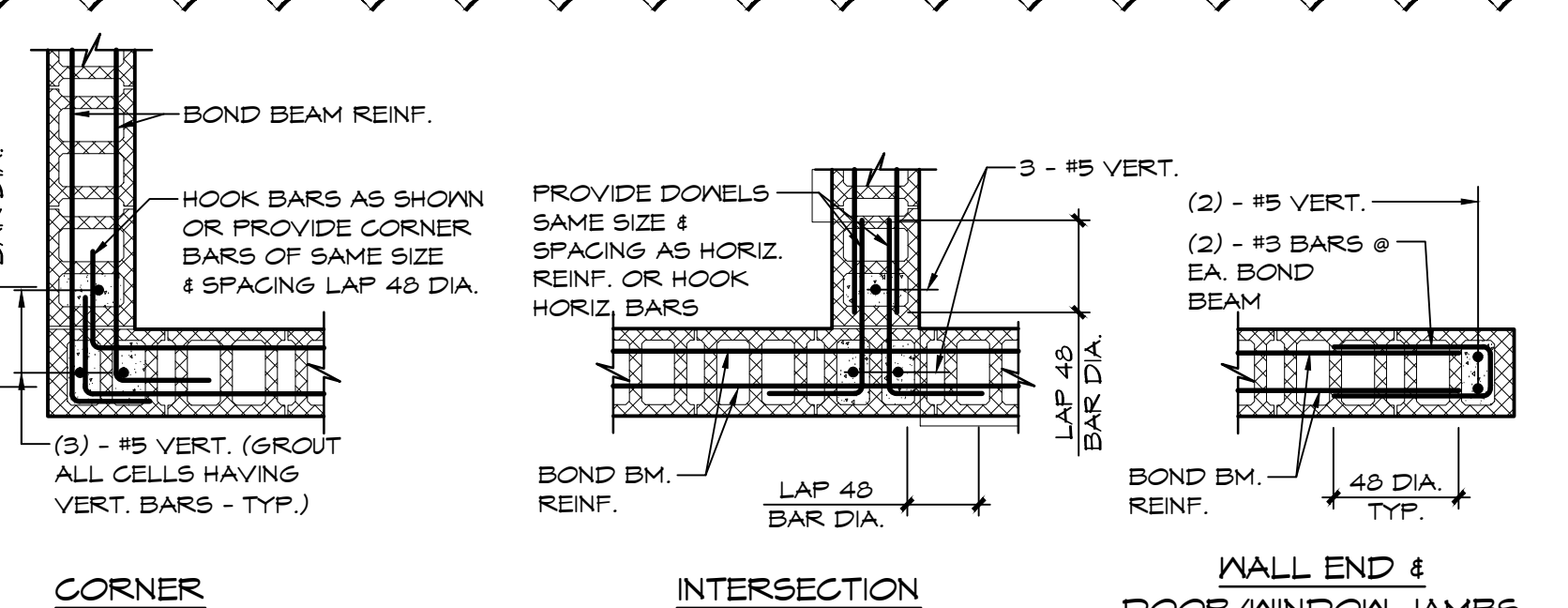
SECTION

SCALE 3/4" = 1'-0"



MASONRY WALL DETAILS

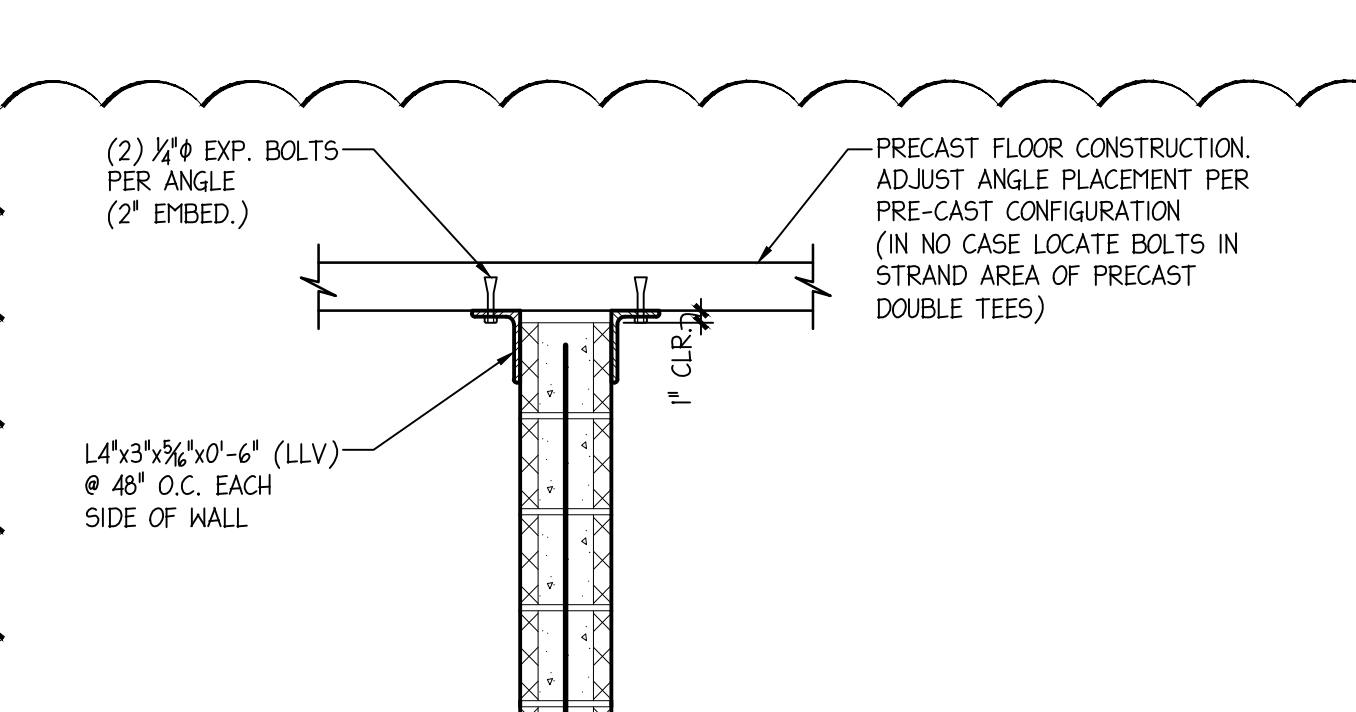
NOT TO SCALE



- NOTES:**
- CORNERS AND INTERSECTIONS UNLESS OTHERWISE NOTED OR SPECIFIED, AT POINTS WHERE CONCRETE MASONRY WALLS MEET OR INTERSECT, LAY 50% OF UNITS IN MASONRY BOND WITH ALTERNATE UNITS HAVING A BEARING ON NOT LESS THAN 4 INCHES ON THE UNIT BELOW
 - DOVELS UNLESS OTHERWISE NOTED OR SPECIFIED, PROVIDE DOVELS FROM CONCRETE FOOTING OR WALL BELOW WITH SAME SIZE AND SPACING AS VERTICAL BARS AT LEVEL BELOW. LAP 40 BAR DIAMETERS MINIMUM U.N.O.

NON-LOAD BEARING MASONRY WALL - LATERAL SUPPORT

SCALE 3/4" = 1'-0"



STEEL FRAMING TO P.C. WALL/COL DETAILS

SCALE 3/4" = 1'-0"

- NOTES:**
- EMBED PLATE TO BE DESIGNED AND PROVIDED BY THE PRECAST BUILDING MANUFACTURER.
 - MEMBER REACTION AT EMBED $E = 7.0k$

MISCELLANEOUS LOOSE LINTEL SCHEDULE FOR NON-LOAD BEARING MASONRY WALLS (*)						
		WALL THICKNESS				
		4" WALL	6" WALL	8" WALL	10" WALL	12" WALL
H.O. SIZE	UP TO 4'-0"	L4 x 3½ x 5/16	W14x105	L4 x 3½ x 5/16	L4 x 3½ x 5/16 ■ + L5 x 3½ x 5/16	L4 x 3½ x 5/16
	4'-0" TO 6'-0"	L5 x 3½ x 5/16	W15x111	L5 x 3½ x 5/16	L5 x 3½ x 5/16 + L6 x 4 x 5/16	L5 x 3½ x 5/16
	6'-0" TO 8'-0"	L6 x 3½ x 5/16	-	L6 x 3½ x 5/16	L5 x 3½ x 5/16 + L6 x 4 x 5/16	L6 x 3½ x 5/16
LINTEL NOTES						
1. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENING SIZE AND LOCATION.						
2. CONNECT 2 ANGLES OF ALL 2 AND 3 ANGLE LINTELS BACK TO BACK AT 24" O.C. MAX.						
3. ANGLES LONG LESS VERTICAL UNLESS OTHERWISE NOTED BY SYMBOL.						
4. BEARING END OF STEEL LINTEL AT CONTROL JOINT SHALL BE WRAPPED WITH BUILDING PAPER.						
5. PROVIDE MINIMUM 6" BEARING ON BRICK OR SOLID CONCRETE BLOCK.						
6. EXTERIOR LINTEL ASSEMBLIES SHALL BE HOT DIP GALVANIZED PER SPECIFICATIONS.						
7. PROVIDE MINIMUM 8" WALL THICKNESS > 8" HIGH GROUDED CUMI, OR BRICK BEARING PAD UNDER ALL LINTELS, UNLESS OTHERWISE NOTED. GROUT JAMES FOR MASONRY OPENINGS 6'-0" AND LARGER. FULL HEIGHT FOR UP TO MINIMUM LENGTH.						
8. CONNECT LINTEL TO COLUMN IF MASONRY OPENING IS ADJACENT TO COLUMN AND Lintel HAS LESS THAN 8" BEARING ON CUMI BEYOND COLUMN FLANGES.						
(*) USE THIS SCHEDULE AT BEARING WALLS ONLY WHERE LINTEL IS INDICATED ON PLAN TWO SIZE/DESIGNATION.						

- LINTEL NOTES:**
- SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENING SIZE AND LOCATION.
 - CONNECT 2 ANGLES OF ALL 2 AND 3 ANGLE LINTELS BACK TO BACK AT 24" O.C. MAX.
 - ANGLES LONG LEG VERTICAL, UNLESS OTHERWISE NOTED BY SYMBOL.
 - BEARING END OF STEEL LINTEL AT CONTROL. JOINT SHALL BE REINFORCED WITH BUILDING PAPER.
 - PROVIDE MINIMUM 6" BEARING ON BRICK OR SOLID CONCRETE BLOCK.
 - EXTERIOR LINTEL ASSEMBLIES SHALL BE HOT DIP GALVANIZED PER SPECIFICATIONS.
 - PROVIDE MINIMUM 8" WALL THICKNESS x 8" HIGH GROUTED CMU OR BRICK BEARING PAD UNDER ALL LINTELS, UNLESS OTHERWISE NOTED. GROUT JAMBS OF MASONRY OPENINGS 6'-0" AND LARGER FULL HEIGHT FOR 16" MINIMUM LENGTH.
 - CONNECT LINTEL TO COLUMN IF MASONRY OPENING IS ADJACENT TO COLUMN AND LINTEL HAS LESS THAN 6" BEARING ON CMU, BEYOND COLUMN FLANGES.
 - USE THIS SCHEDULE AT BEARING WALLS ONLY WHERE LINTEL IS INDICATED ON PLAN W/O SIZE/DESIGNATION.

ARCHITECT/ENGINEERS:

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Drawing Title

STAIR & ELEVATOR FRAMING PLANS,
DETAILS & SECTIONS

Approved: Project Director

Project Title

VA Clarksburg
Parking Garage

Location

VAMC Clarksburg West Virginia

Date

4 June 2015

Checked

Drawn

Dwg. of

VA Project Number

540-320
IKM Project Number
10-163

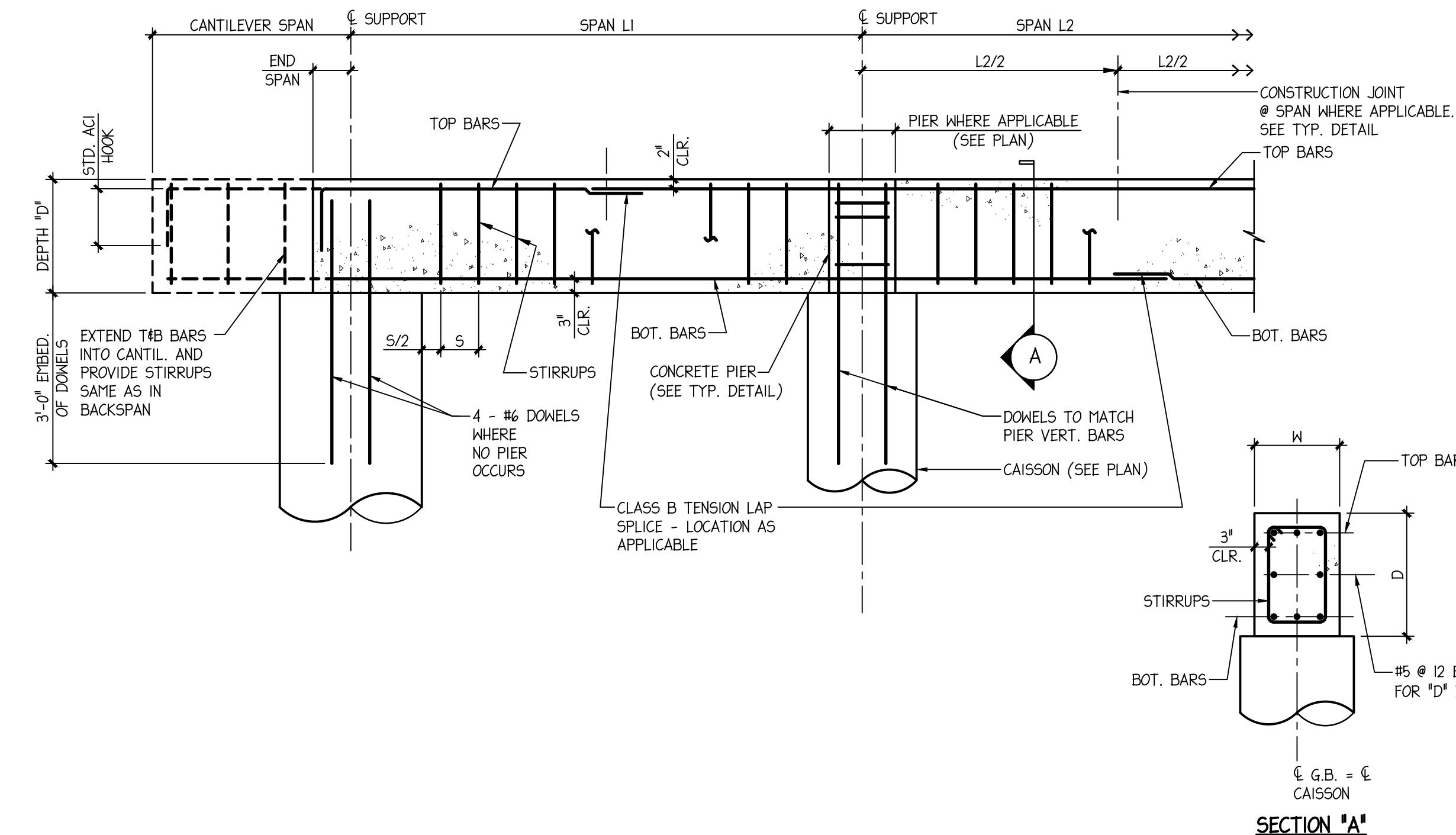
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Drawing Number

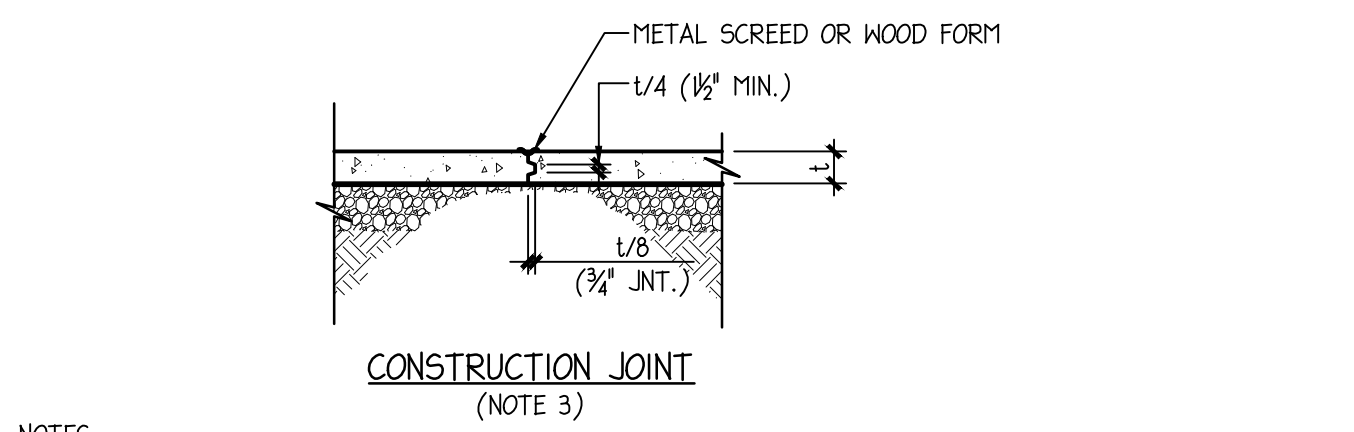
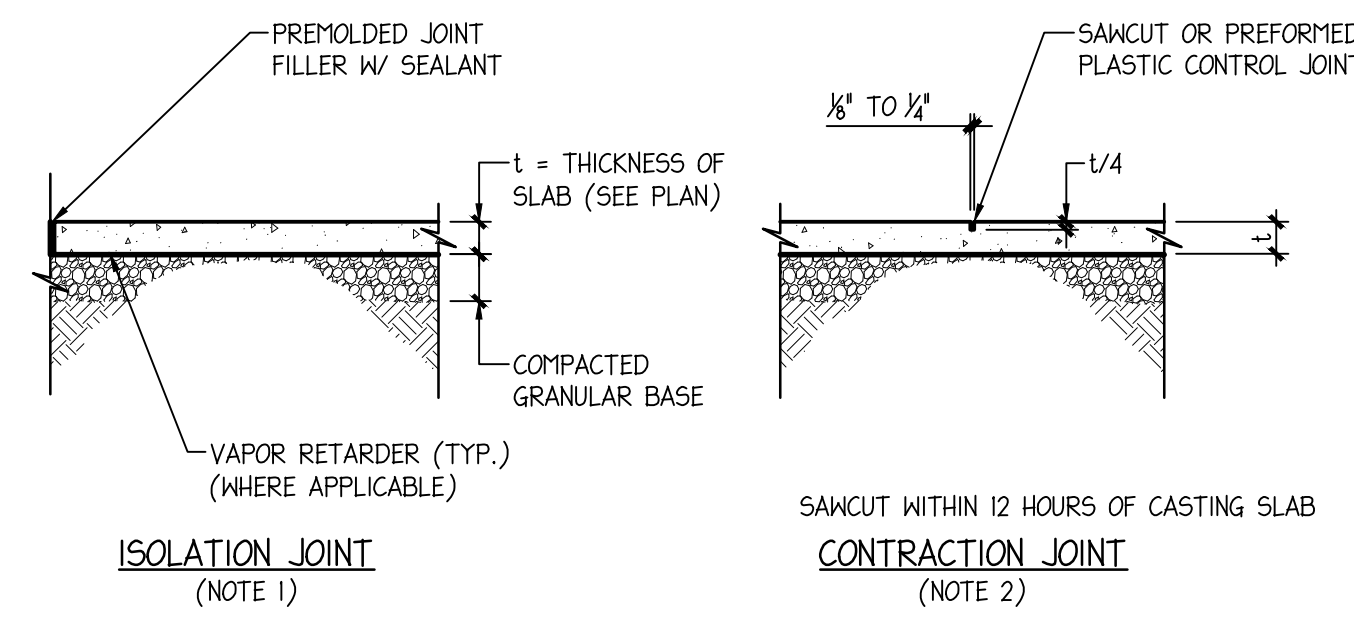
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Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

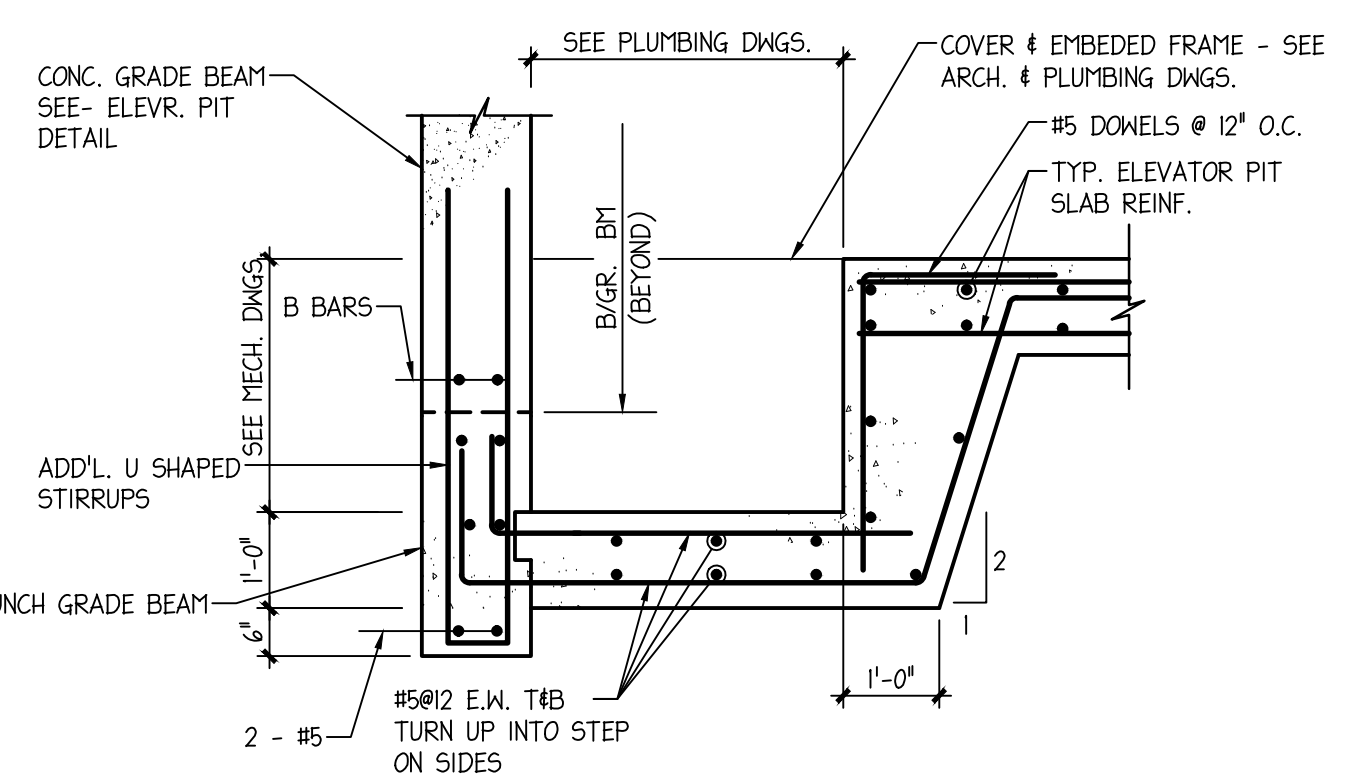


CONCRETE GRADE BEAM REINFORCEMENT DIAGRAM
NOT TO SCALE

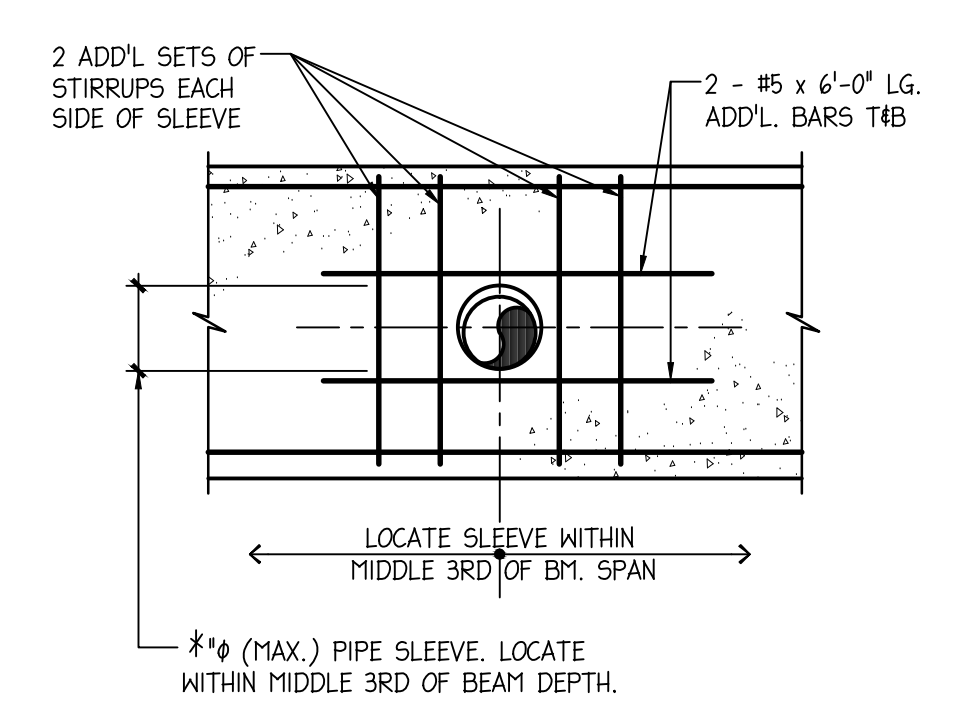


- NOTES:
1. PROVIDE AT WALLS, COLUMN ISOLATION JOINTS OR OTHER FIXED PENETRATIONS AT THE FLOOR SLAB.
 2. SEE PLAN FOR JOINT LAYOUT. IF NOT SHOWN, PROVIDE AT 12'-0" MAX O.C. AND SUBMIT PLAN LAYOUT FOR APPROVAL.
 3. SUBSTITUTE CONSTRUCTION JOINTS FOR CONTRACTION JOINT AT END OF POUR LOCATIONS.
 4. FIBER REINFORCING SHALL BE 5.0 LBS/CY MACRO FIBER FORTA FERRO 2/4 AS MANUFACTURED BY FORTA CORPORATION OR APPROVED EQUAL.

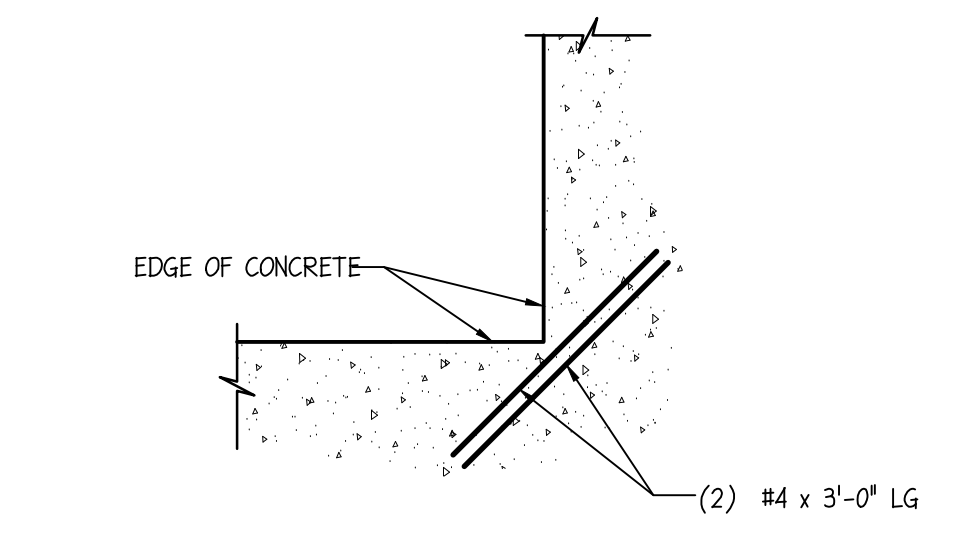
SLAB-ON-GRADE JOINT DETAILS
(FIBER REINFORCED)
NOT TO SCALE



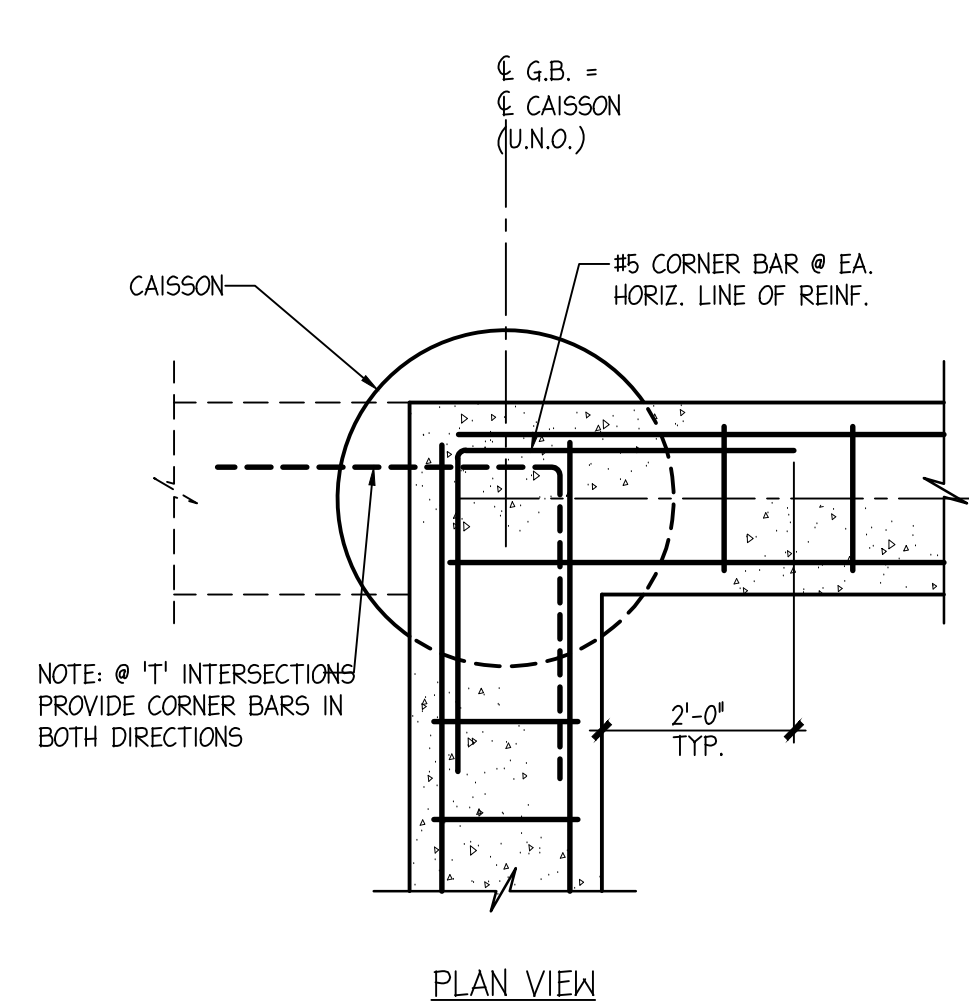
ELEVATOR PIT SUMP DETAIL
NOT TO SCALE



UTILITY PIPE THRU
CONCRETE GRADE BEAM DETAIL
NOT TO SCALE

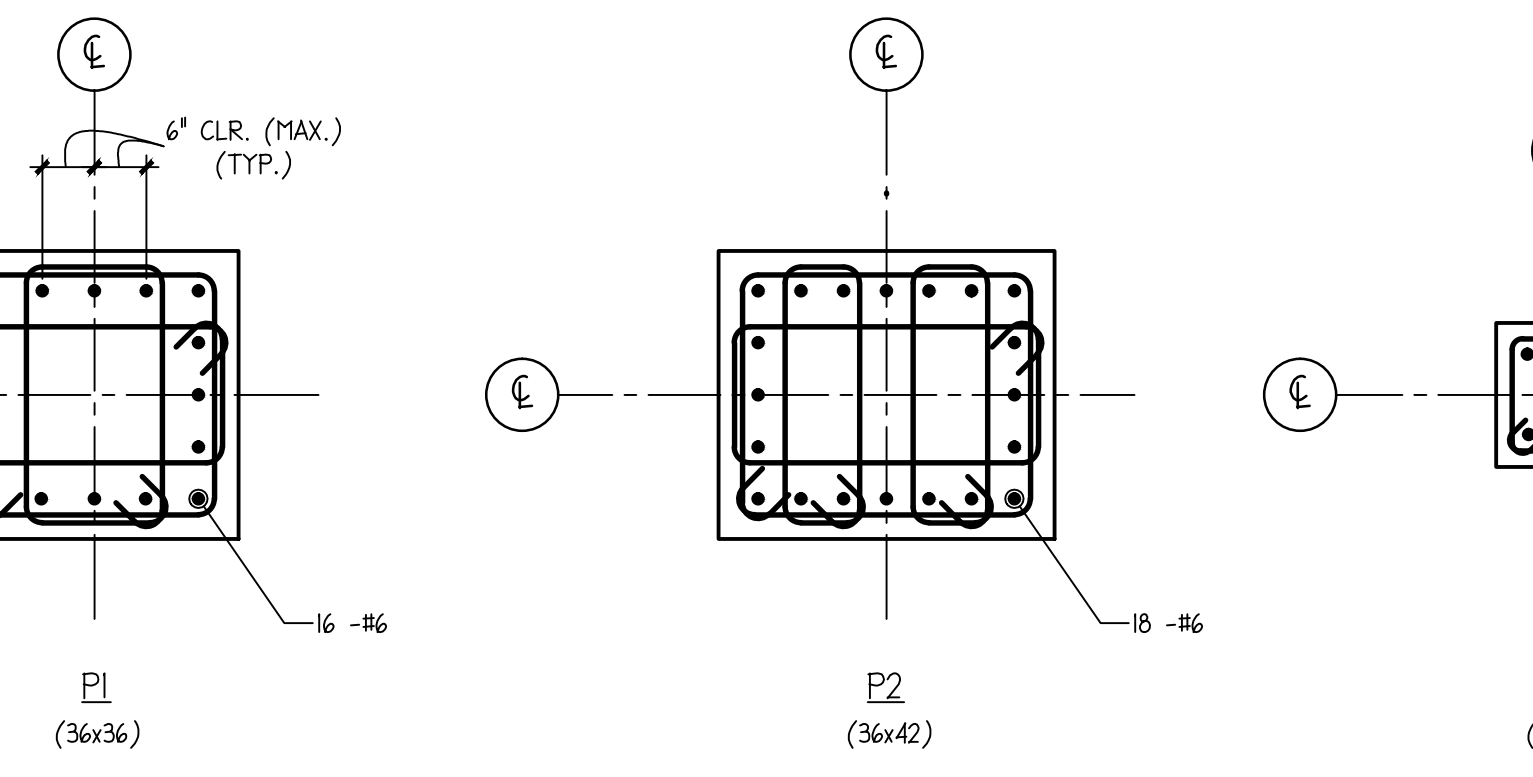


PLAN RE-ENTRANT
CORNERS @ SLAB DETAIL
NOT TO SCALE

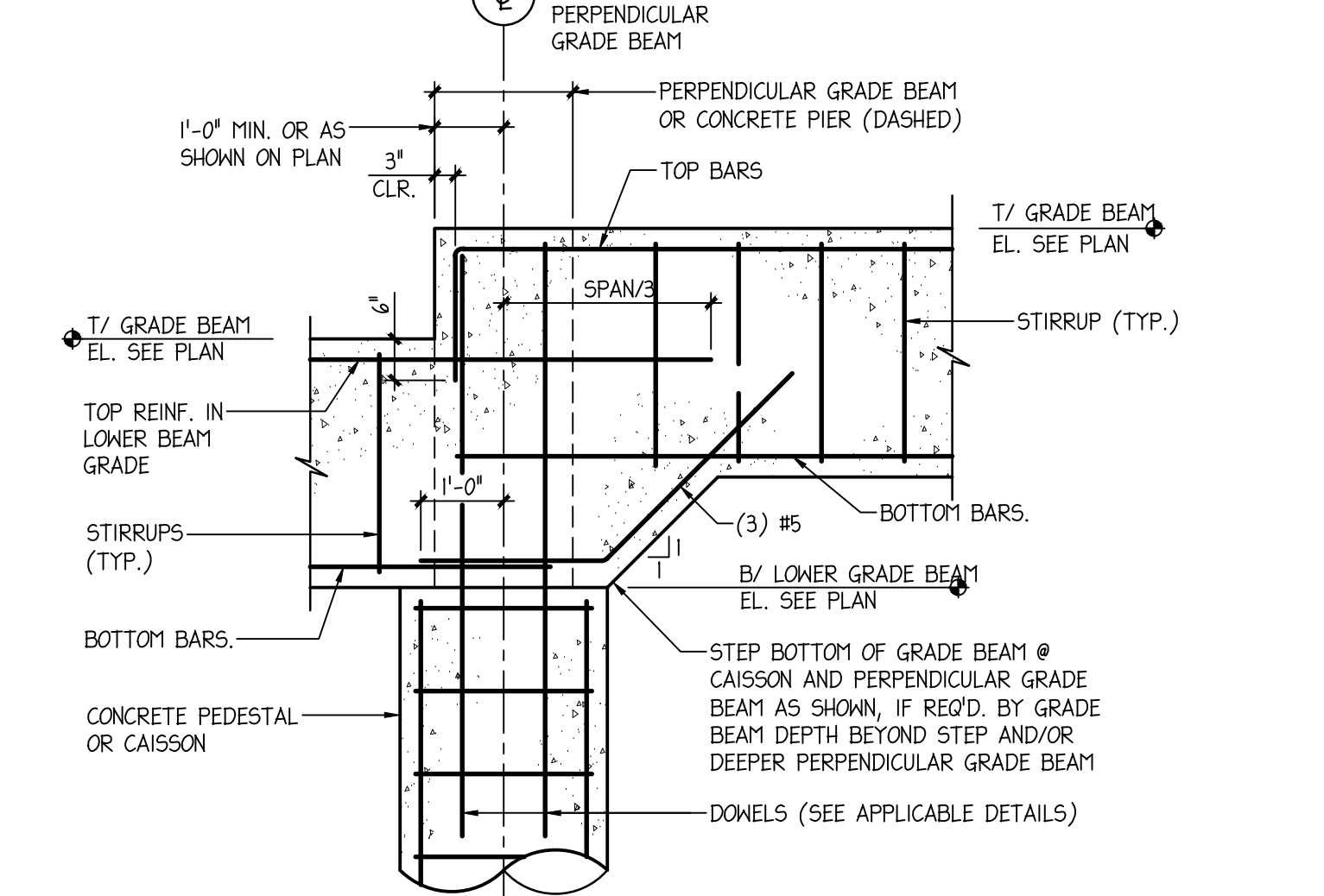


CONCRETE GRADE BEAM
INTERSECTION DETAIL
NOT TO SCALE

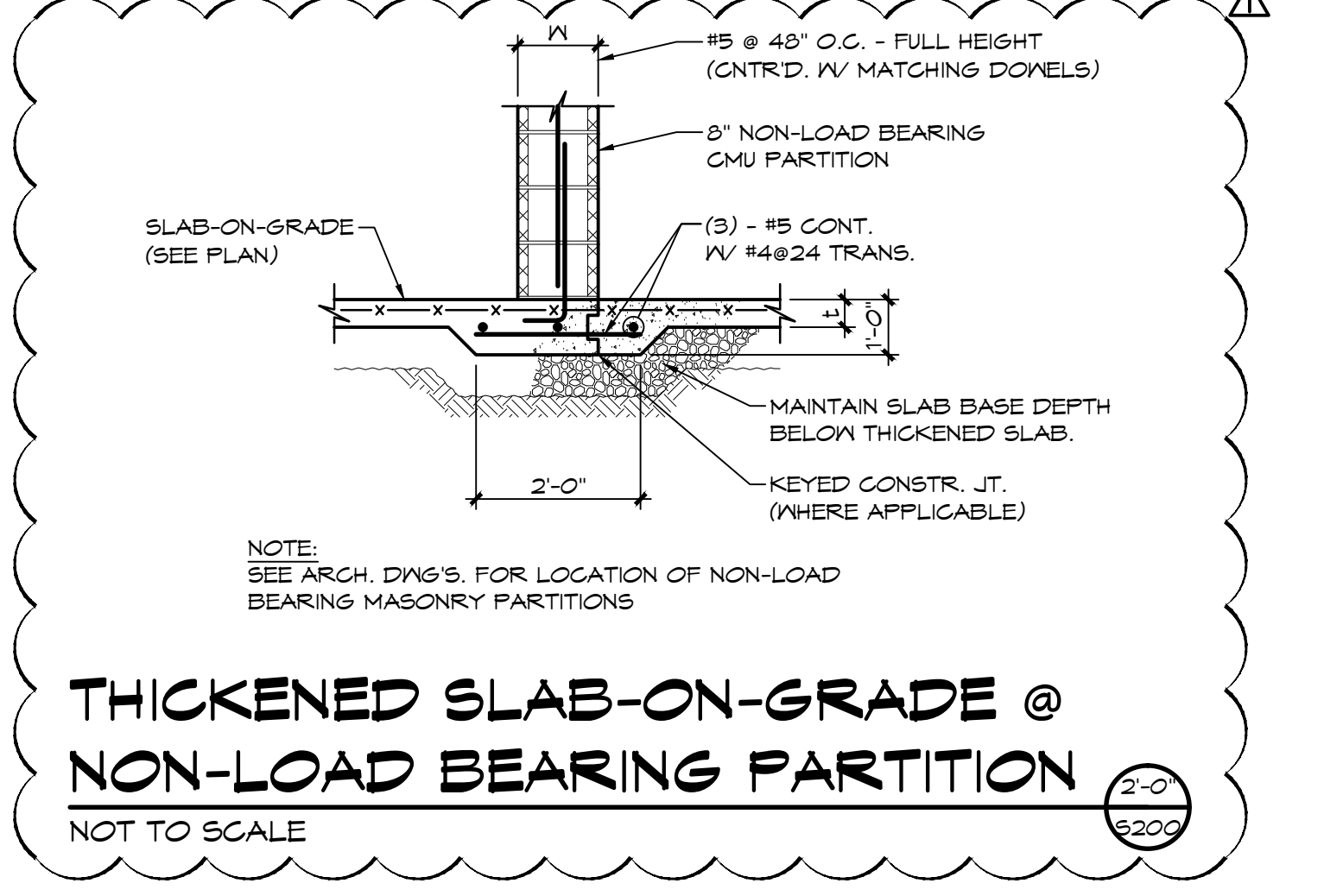
GRADE BEAM
CONSTRUCTION JOINT DETAIL
NOT TO SCALE



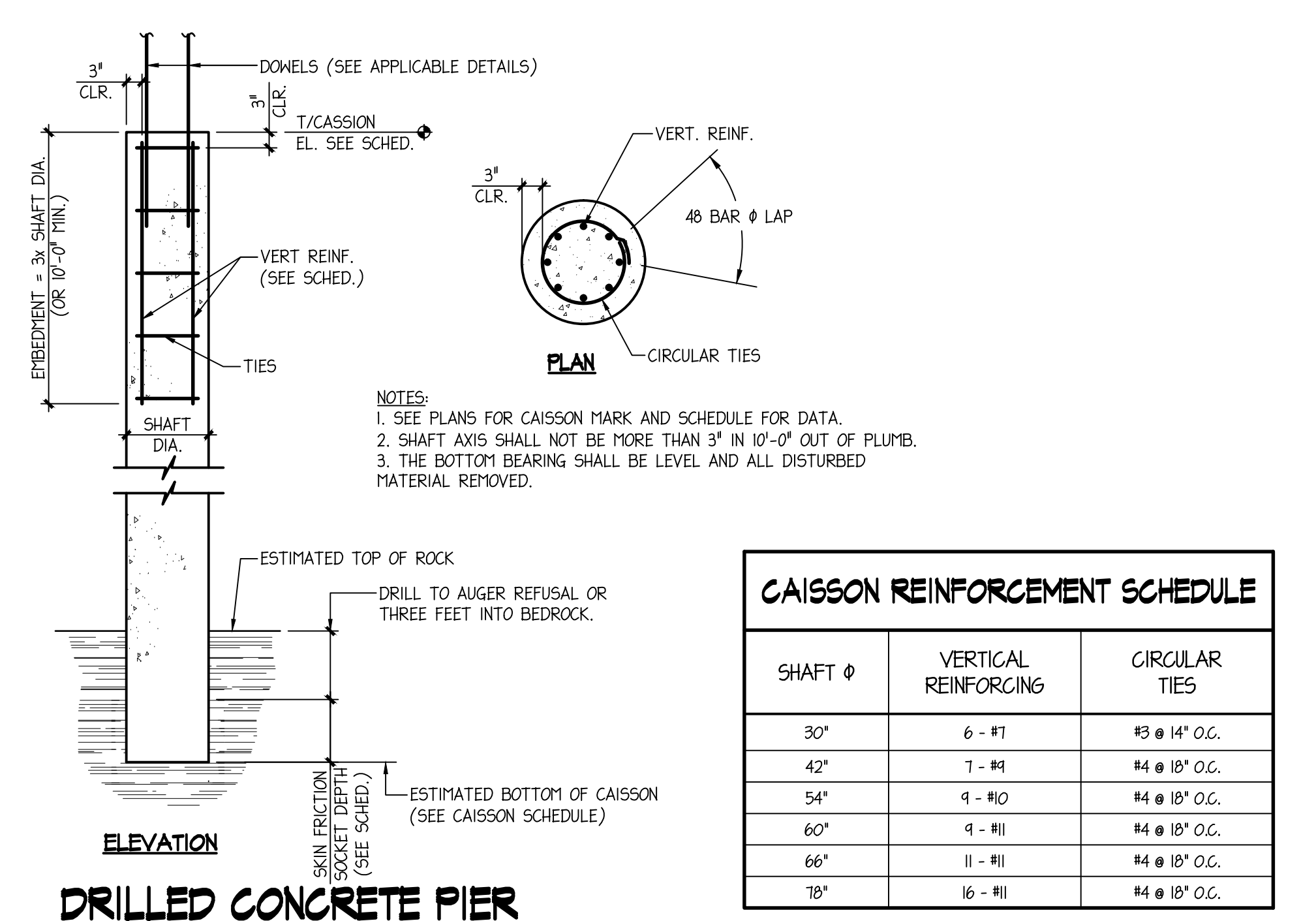
CONCRETE PIER DETAILS
NOT TO SCALE



STEPPED CONC. GRADE BEAM DETAIL
NOT TO SCALE

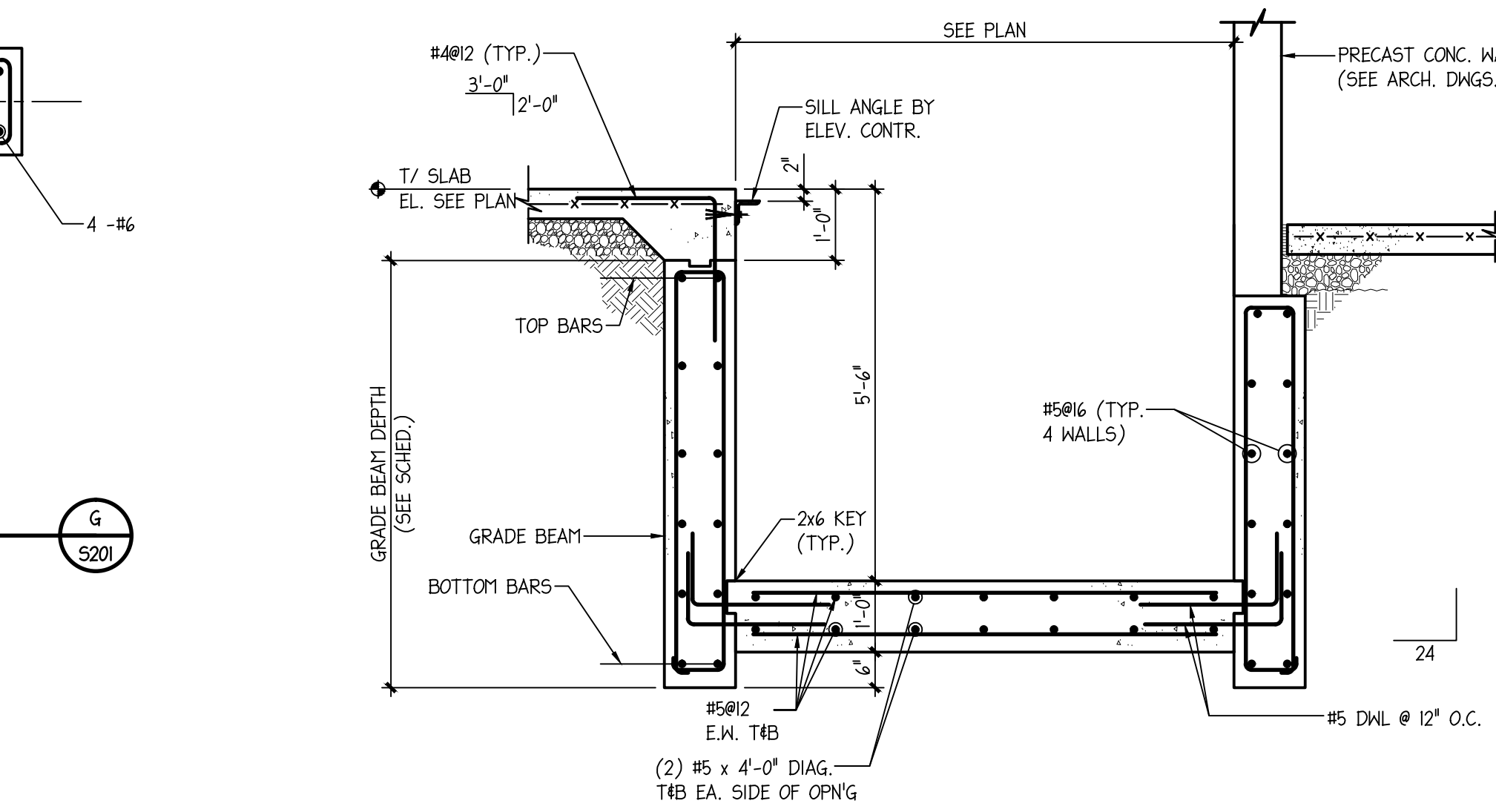


THICKENED SLAB-ON-GRADE @
NON-LOAD BEARING PARTITION
NOT TO SCALE

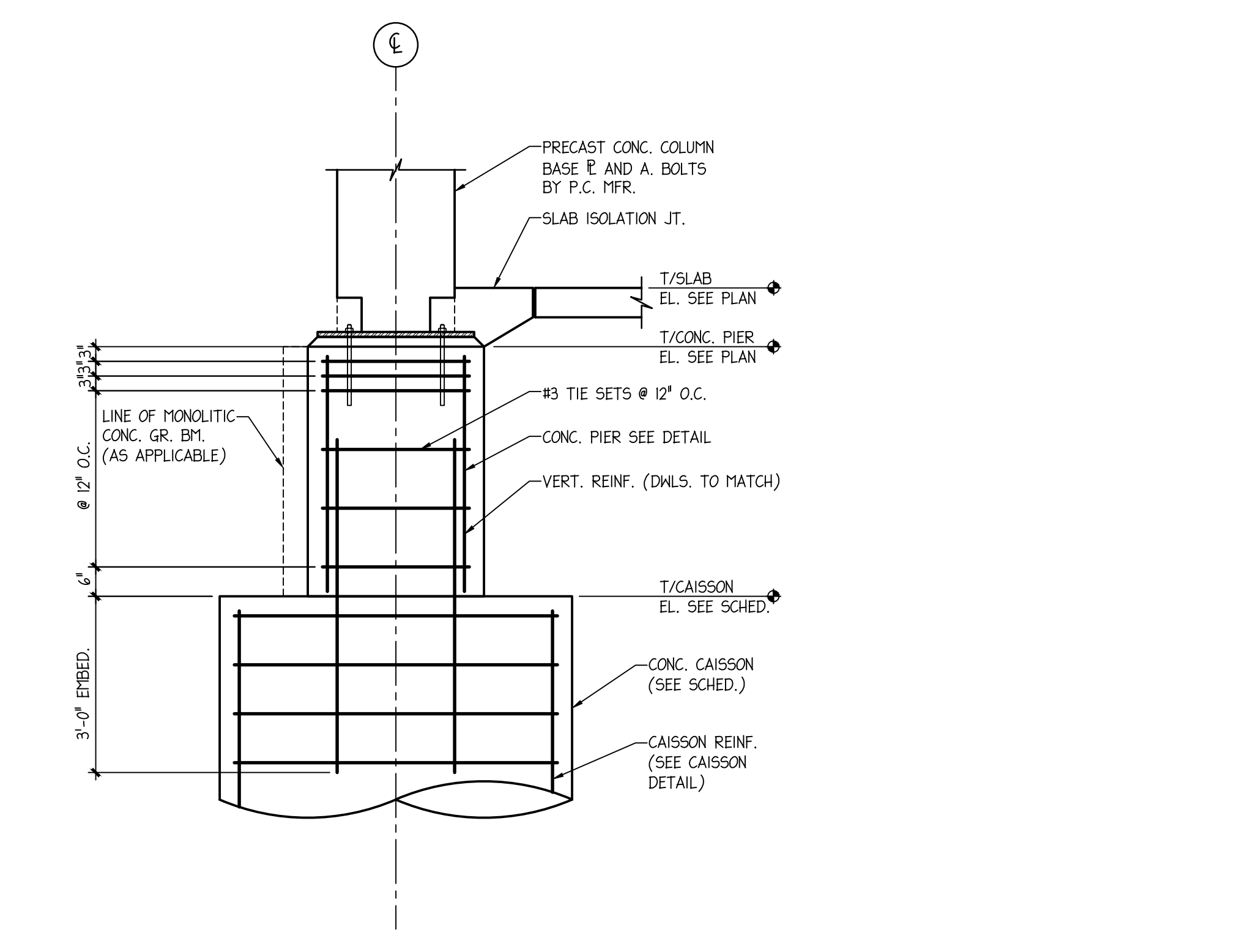


DRILLED CONCRETE PIER
(CAISSON) W/ SOCKET DETAIL
NOT TO SCALE

CAISSON REINFORCEMENT SCHEDULE		
SHAFT Ø	VERTICAL REINFORCING	CIRCULAR TIES
30"	6 - #7	#3 @ 14" O.C.
42"	7 - #8	#4 @ 18" O.C.
54"	9 - #10	#4 @ 18" O.C.
60"	9 - #11	#4 @ 18" O.C.
78"	16 - #11	#4 @ 18" O.C.



ELEVATOR PIT - GRADE BEAM
NOT TO SCALE



P.C. CONCRETE COLUMN/PIER DETAIL
NOT TO SCALE

CONSULTANTS:

Keystone Structural Solutions

Consulting Engineers

8150 Perry Highway
Suite 302
Pittsburgh, PA 15227

Phone: 412.369.9020
Fax: 412.369.9021
www.kss-eng.com

Project No. 11092

ARCHITECT/ENGINEERS:

architecture
planning
interior design

IKM Incorporated
One PPG Place
Pittsburgh, PA 15222
412-281-1337
www.ikm-inc.com

Drawing Title

FOUNDATION TYPICAL DETAILS

Approved: Project Director

Project Title

VA Clarksburg
Parking Garage

Location
VAMC Clarksburg West Virginia

Date
4 June 2015

Checked

Drawn

VA Project Number
540-320
IKM Project Number
10-163

Building Number

Drawing Number
S200

Dwg. of

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

6/20/2015 2:11:13 PM
VA FORM 08-6231
one eighth inch = one foot
one quarter inch = one foot
one half inch = one foot
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