

DESIGN CRITERIA

- 1. CODES: INTERNATIONAL BUILDING CODE (IBC) 2012... AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-11)...

FOUNDATIONS/SLAB-ON-GRADE

- 1. CROSS REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ASSURE PROPER DIMENSIONS AND PLACEMENT OF ALL ANCHOR BOLTS, INSERTS, NOTCHES, EDGES IN GRADE BEAMS, FOUNDATION WALLS AND PIERS...

REINFORCING STEEL

- 1. FOR CAST-IN-PLACE CONCRETE THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT UNLESS NOTED OTHERWISE: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3 INCHES...

Table with 5 columns: BAR SIZE, OTHER, TOP, OTHER, TOP. Rows for 3000 PSI CONCRETE and 4000 PSI CONCRETE.

LAP LENGTHS ASSUME CLEAR SPACING BETWEEN BARS OF 2 BAR DIAMETERS, AND A MINIMUM COVER OF 1 BAR DIAMETER...

PRESTRESSED/PRECAST CONCRETE

- 1. ALL TOPPING SLABS TO BE COMPOSITE WITH HOLLOW CORE SLABS, UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL

- 1. REFER TO DRAWINGS FOR DETAIL OF COLD OPENINGS. REFER TO ARCHITECTURAL MECHANICAL ELECTRICAL DRAWINGS, ETC., FOR EXACT SIZE, LOCATION, AND COUNT OF REQUIRED OPENINGS.

STEEL JOISTS

- 1. DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STEEL JOIST INSTITUTE (SJI) SPECIFICATION BY A MEMBER OF THE SJI APPROVED FOR THE TYPE OF JOIST BEING USED...

Table with 7 columns: JOIST SERIES, WELD SIZE, WELD LENGTH, BOLT DIAMETER, BOLT MATERIAL, STEEL, MASONRY. Rows for K and LH02-06.

GENERAL NOTES

- 1. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS...

STEEL DECK

- 1. DECK SIZE AND GAGE INDICATED IN THE DRAWINGS ARE BASED ON THE FOLLOWING: A. VULCRAFT 2008 CATALOG FOR GRAVITY DESIGN LOADS...

LINTELS

- 1. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION. THE STRUCTURAL DOCUMENTS REFLECT THE BEST ATTEMPT TO IDENTIFY ALL WALL PENETRATIONS IN THE EXISTING AND NEW CONSTRUCTION...

STRUCTURAL COLD-FORMED STEEL FRAMING (CFSF)

- 1. MATERIAL, DESIGN AND MANUFACTURE SHALL BE IN ACCORDANCE WITH THE "STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS" OF THE AMERICAN IRON AND STEEL INSTITUTE CURRENT EDITION.

EXISTING STRUCTURAL INFORMATION

- 1. EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM EXISTING DRAWINGS DATED: A. 1948 BY FINGER & RUSTAY AND R.G. SCHNEIDER...

POST INSTALLED STEEL ANCHORS

- 1. POST INSTALLED EXPANSION ANCHORS SERVING AS THE BASIS OF DESIGN ARE SHOWN ON THE DRAWINGS. ACCEPTABLE ALTERNATE ANCHORS MAY BE SUPPLIED PROVIDED THAT THE QUANTITY AND CONFIGURATION MATCHES THE CAPACITY OF THE DESIGN ANCHOR QUANTITY...

Table with 3 columns: ANCHORED INTO, BASIS OF DESIGN, ACCEPTABLE ALTERNATES AT CONTRACTOR'S OPTION.

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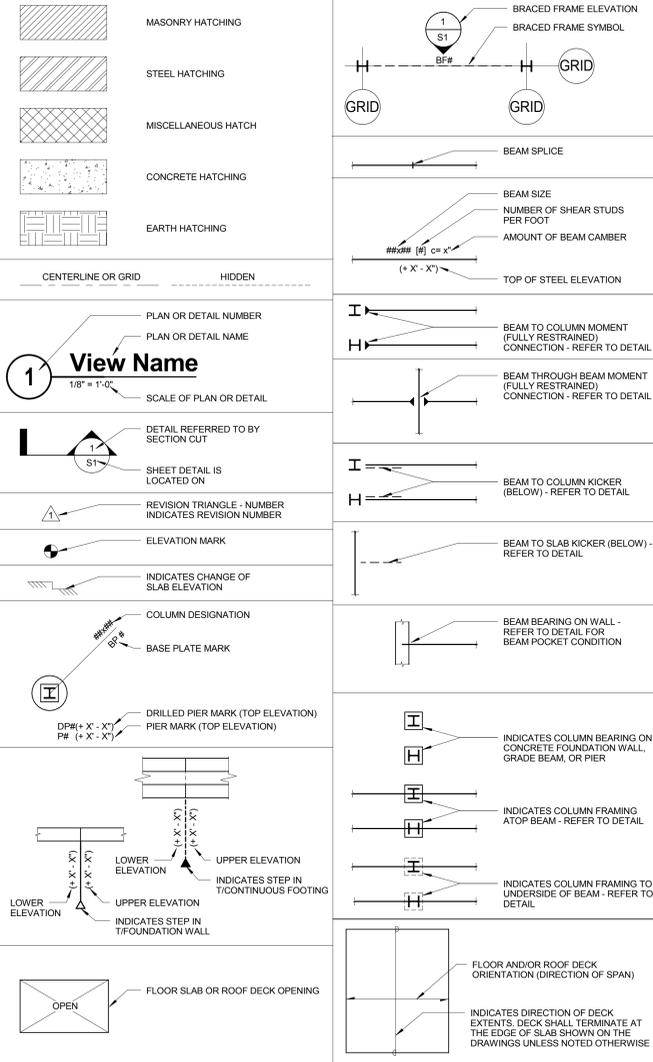
GEOFOAM

- 1. GEOFOAM INDICATED ON DRAWING IS INTENDED TO BE "R-CONTROL EPS22 GEOFOAM" BY AFM CORPORATION. AT CONTRACTOR'S OPTION, HIGH DENSITY RIGID INSULATION MAY BE USED IN PLACE OF GEOFOAM...

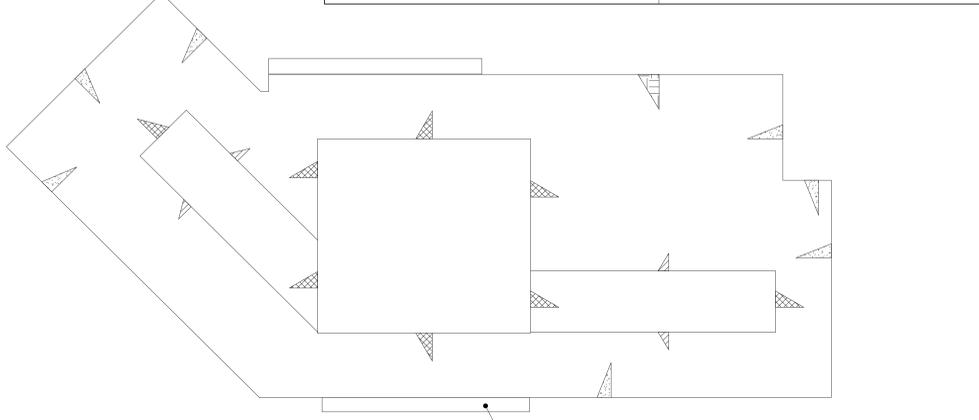
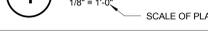
STRUCTURAL ABBREVIATIONS LIST

Table with 2 columns: SYMBOL, NUMBER. Lists various structural symbols and their corresponding numbers.

STRUCTURAL DRAWING SYMBOLS



View Name



SNOW DRIFT PLAN

1" = 20'-0"

NOTES:

- 1. SNOW DRIFT IS IN ADDITION TO FLAT ROOF SNOW LOAD.

Table with 2 columns: SNOW DRIFT KEYPLAN, NOTES. Lists different snow drift types and their corresponding PSF values.

Table with 2 columns: Revisions, Date. Lists revision history.

CONSULTANTS:

HEALTHCARE PLANNERS: VOA ARCHITECTS
MEPPP + TECH + STRUCT: KJWW CONSULTING ENGINEERS
CIVIL ENGINEER: JD ENGINEERING
COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT
INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.

ARCHITECT:

MICHAEL ROTH & ASSOCIATES, ARCHITECTS & PLANNERS, INC.
200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112

Table with 2 columns: Drawing Title, Approved: Project Director. Drawing Title: STRUCTURAL GENERAL NOTES.

Table with 4 columns: Project Title, Project Number, Building Number, Drawing Number, Date, Checked, Drawn, Dwg. 46 of 142.

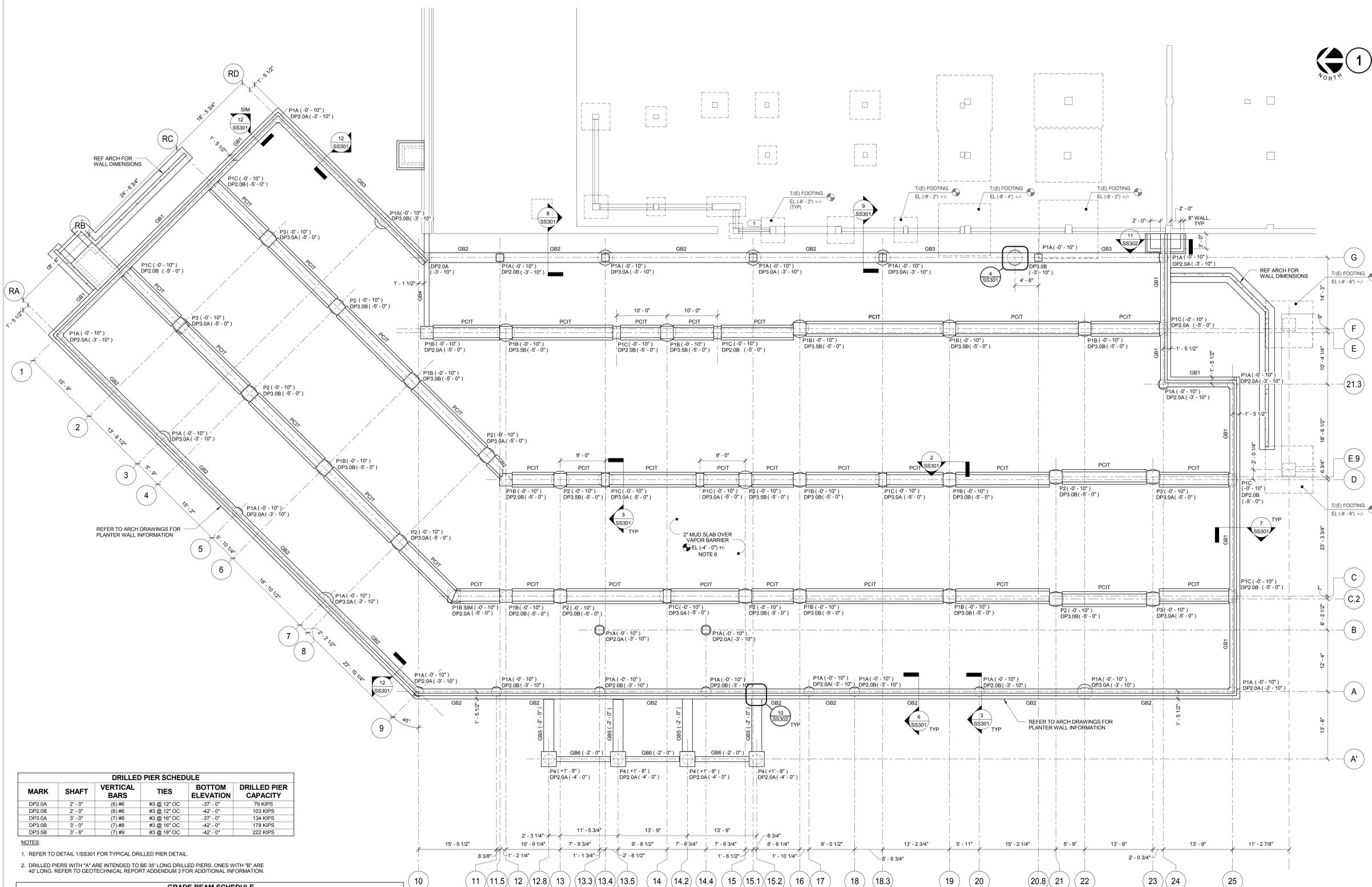
Office of Facilities Management

Department of Veterans Affairs

100% ISSUED FOR CONSTRUCTION

# FOUNDATION PLAN

- 18" = 1'-0"
- NOTES:**
- DP# INDICATES DRILLED PIER. REFER TO SCHEDULE ON SS100.
  - GB# INDICATES GRADE BEAM. REFER TO SCHEDULE ON SS100. REFER TO DETAIL 13/SS301 FOR GRADE BEAM ELEVATION.
  - P# INDICATES CONCRETE PIER. REFER TO SHEET SS302 FOR ADDITIONAL INFORMATION.
  - PCIT INDICATES PRECAST INVERTED TEE. ELEVATIONS OF CONCRETE SUPPORTS BASED ON 36" PRECAST DEPTH WITH TOP OF PRECAST AT -0'-4". IF PRECAST SIZES ARE DIFFERENT, COORDINATE ELEVATIONS WITH CONCRETE CONTRACTOR.
  - REFER TO DETAIL 9/SS302 FOR FOUNDATION REQUIREMENTS AT SITE UTILITIES.
  - ALONG EXTERIOR GRADE BEAM, SLOPE MUD SLAB UP, SO SLAB IS AT -3'-0".
- KEYNOTES:**
- INFILL EXISTING DOOR WITH 8" CONCRETE WALL WITH #4 @ 12" OC EACH WAY. DOWEL BARS INTO EXISTING WALL EMBED 5" WITH EPOXY ANCHOR. PROVIDE WATERSTOP AROUND JOINT. COORDINATE PART OF WALL TO REMAIN OPEN WITH MECHANICAL.



DRILLED PIER SCHEDULE					
MARK	SHAFT	VERTICAL BARS	TIES	BOTTOM ELEVATION	DRILLED PIER CAPACITY
DP2.0A	2'-0"	(6) #6	#3 @ 12" OC	-37'-0"	79 KIPS
DP2.0B	2'-0"	(6) #6	#3 @ 12" OC	-42'-0"	103 KIPS
DP3.0A	3'-0"	(7) #6	#3 @ 16" OC	-37'-0"	134 KIPS
DP3.0B	3'-0"	(7) #6	#3 @ 16" OC	-42'-0"	178 KIPS
DP3.5B	3'-6"	(7) #9	#3 @ 18" OC	-42'-0"	222 KIPS

- NOTES:**
- REFER TO DETAIL 1/SS301 FOR TYPICAL DRILLED PIER DETAIL.
  - DRILLED PIERS WITH "A" ARE INTENDED TO BE 36" LONG DRILLED PIERS. ONES WITH "B" ARE 40" LONG. REFER TO GEOTECHNICAL REPORT ADDENDUM 3 FOR ADDITIONAL INFORMATION.

GRADE BEAM SCHEDULE						
MARK	WIDTH	BOTTOM BARS	TOP BARS	SIDE BARS	STIRRUPS	REMARKS
GB1	16"	(3) #6	(3) #6	#4 @ 12" OC EACH FACE	#4 @ 12" OC	-
GB2	16"	(3) #9	(3) #9	#4 @ 12" OC EACH FACE	#4 @ 12" OC	-
GB3	16"	(3) #9	(4) #9	#4 @ 12" OC EACH FACE	#4 @ 12" OC	-
GB4	12"	(3) #6	(3) #6	#4 @ 12" OC EACH FACE	#4 @ 12" OC	-
GB5	24"	(4) #6	(4) #6	#4 @ 12" OC EACH FACE	#4 @ 10" OC	-
GB6	12"	(2) #6	(2) #6	#4 @ 12" OC EACH FACE	#4 @ 10" OC	-

- NOTES:**
- REFER TO DETAIL 13/SS301 FOR GRADE BEAM ELEVATION.

**CONSULTANTS:**

HEALTHCARE PLANNERS: VOA ARCHITECTS  
 MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS  
 CIVIL ENGINEER: JD ENGINEERING  
 COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT  
 INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.

**ARCHITECT:**

**MICHAEL ROTH & ASSOCIATES, ARCHITECTS & PLANNERS, INC.**  
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Drawing Title  
**FOUNDATION PLAN - AMBULATORY CARE**

Approved: Project Director

Project Title  
**RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER**

Project Number  
 549-130

Building Number  
 1

Drawing Number  
 SS100

Dwg. 47 of 142

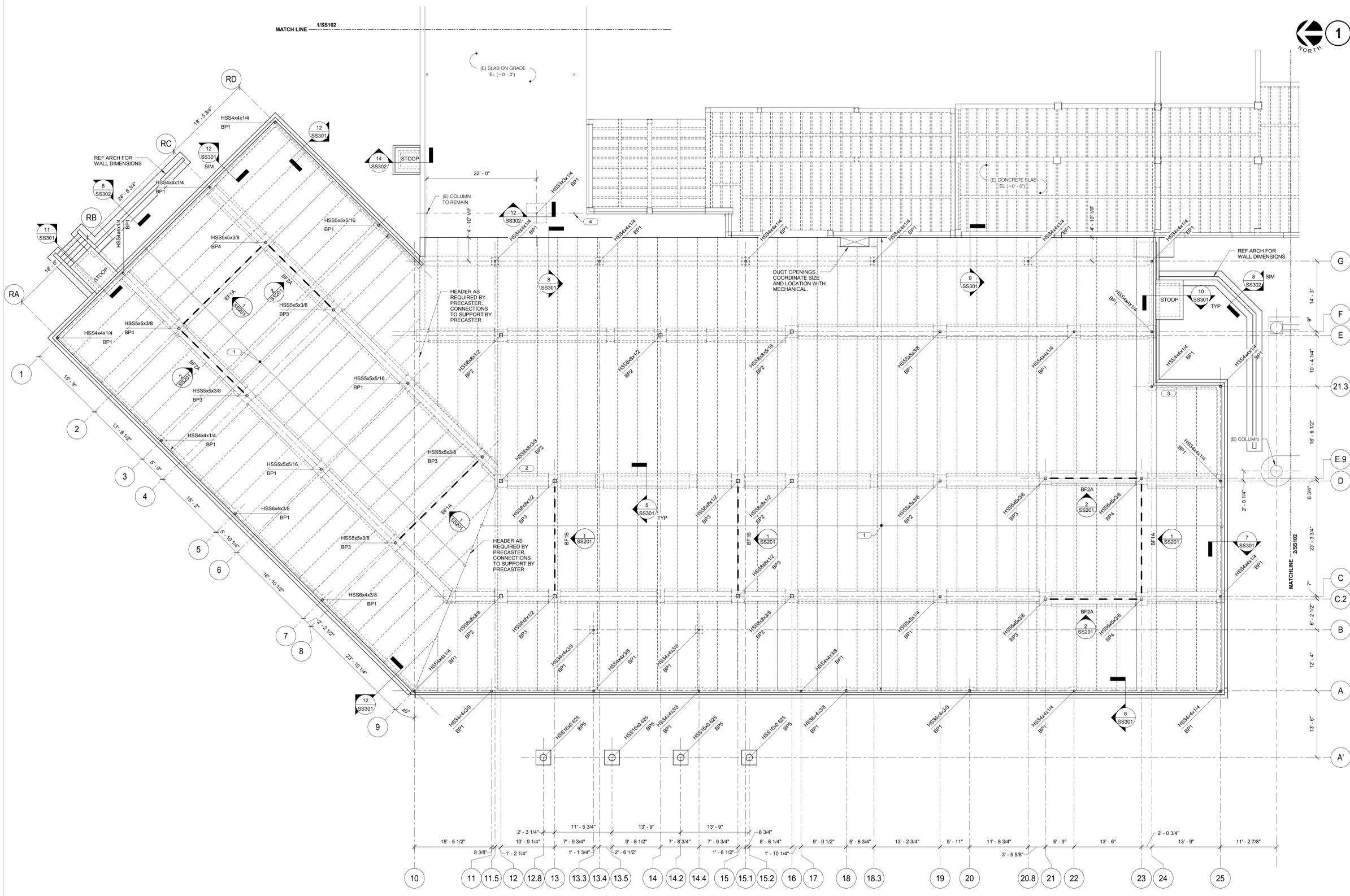
**Office of Facilities Management**

Department of Veterans Affairs

# 1 FIRST FLOOR FRAMING PLAN

1/8" = 1'-0"  
 NOTES:  
 1. BPF INDICATES BASE PLATE. REFER TO DETAIL 2/SS502 FOR ADDITIONAL INFORMATION.  
 2. REFER TO DETAIL 8/SS503 FOR PATCHING OF SMALL ABANDONED HOLES LEFT FROM MEP DEMOLITION.

- KEYNOTES:  
 1. 8" HOLLOW CORE SLAB WITH 2" TOPPING REINFORCED FIBER MESH (2 LBS PER CUBIC YARD). (TOPPING EL. +0'-0") NOTCH AROUND COLUMNS AND BASE PLATES AS REQUIRED. LAYOUT SHOWN IS SCHEMATIC.  
 DESIGN LOADS:  
 1. SELF WEIGHT: BY PRECAST MANUFACTURER. FOUNDATION DESIGN BASED ON 25 PSF TOPPING AND 63 PSF PLANK.  
 2. SUPERIMPOSED DEAD LOAD: 12 PSF  
 3. LIVE LOAD: 100 PSF  
 2. PLUMBING CHASE ABOVE BEAM. COORDINATE NOTCHES AND SLEEVES IN BEAM AND PRECAST WITH MECHANICAL.  
 3. PLUMBING CHASE ABOVE BEAM. COORDINATE SLEEVES IN GRADE BEAM AND NOTCHES IN PRECAST WITH MECHANICAL.  
 4. (E) COLUMN TO BE DEMOLISHED. CUT BELOW EXISTING SLAB AND PATCH SLAB TO MATCH EXISTING SLAB ELEVATION. ADJACENT NEW COLUMN TO BE INSTALLED PRIOR TO DEMOLISHING.



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

Revisions:	Date

**CONSULTANTS:**  
 HEALTHCARE PLANNERS: VOA ARCHITECTS  
 MEPP + TECH + STRUCT: KJWW CONSULTING ENGINEERS  
 CIVIL ENGINEER: JD ENGINEERING  
 COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT  
 INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.

**ARCHITECT:**



**MICHAEL ROTH & ASSOCIATES,  
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Drawing Title  
**FIRST FLOOR FRAMING PLAN -  
 AMBULATORY CARE**

Approved: Project Director

Project Title  
**RENOVATE AND EXPAND  
 AMBULATORY CARE AND LAB.  
 SAM RAYBURN MEMORIAL  
 VETERANS CENTER**

Location  
 BONHAM, TEXAS

Date  
 APRIL 13, 2015

Checked  
 TODBAR

Drawn  
 CAD

Project Number  
 549-130

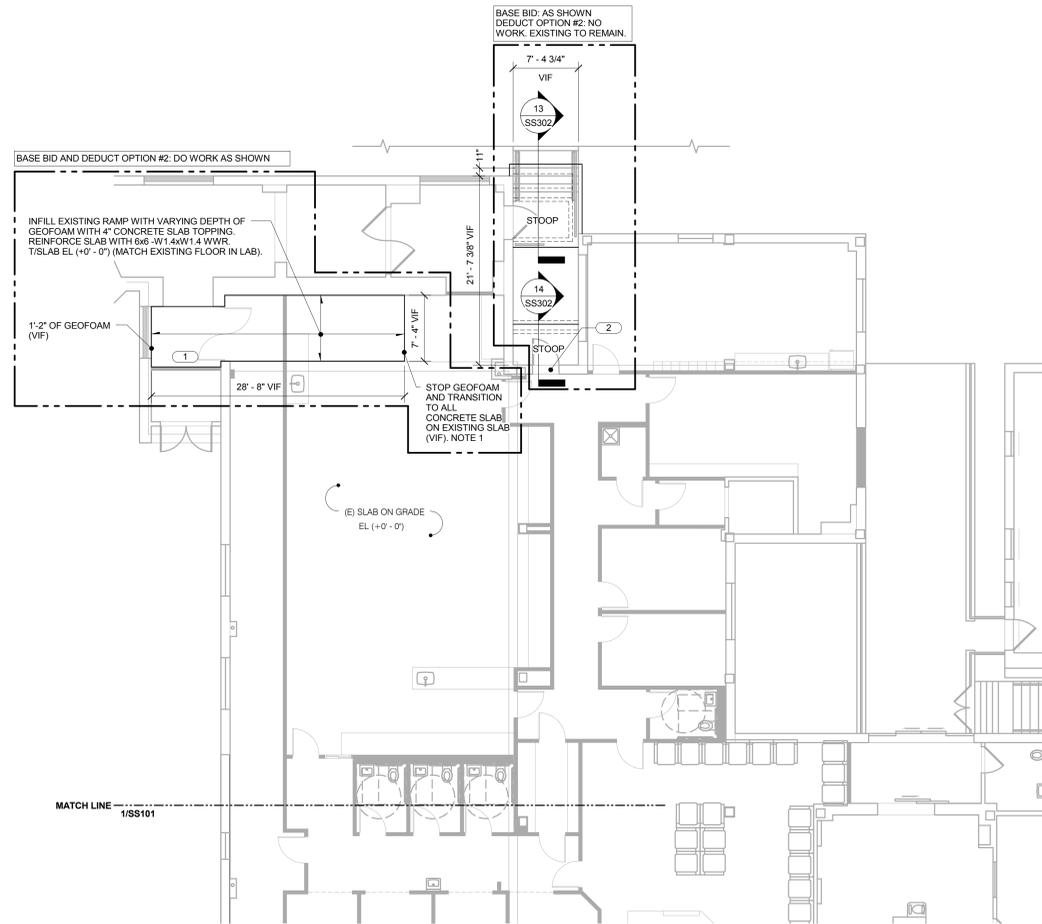
Building Number  
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Drawing Number  
 SS101

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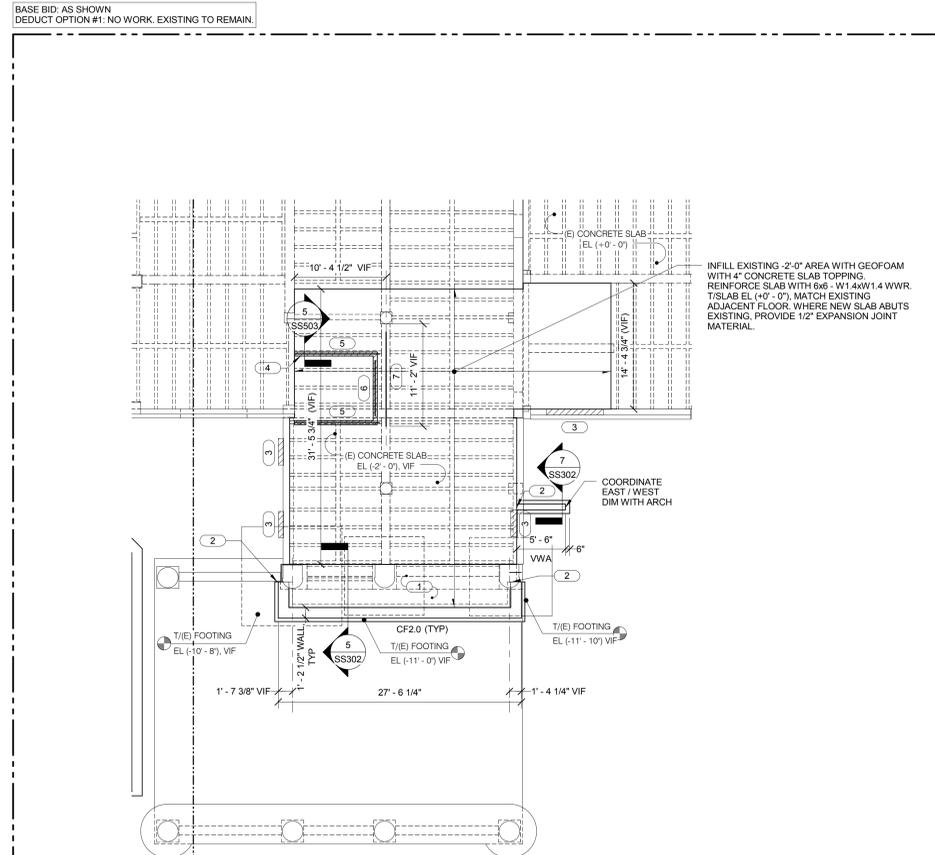
**Office of  
 Facilities  
 Management**

Department of  
 Veterans Affairs



**1 LABORATORY FLOOR PLAN**  
1/8" = 1'-0"

- NOTES:**
- ROUGHEN UP EXISTING CONCRETE AND GRIND DOWN SO A MINIMUM THICKNESS OF 1/2" OF NEW SLAB IS CAST AT SOUTH END.
- KEYNOTES:**
- INFILL EXISTING WALL OPENING. REFER TO DETAIL 6/SS302. COORDINATE SIZE AND LOCATIONS WITH ARCH DRAWINGS. ABOVE CONCRETE WALL - PROVIDE CFSF WALL. REF ARCH AND 08-40-00.
  - FRAME NEW DOOR OPENING WITH CFSF STUDS. MATCH EXISTING STUD THICKNESS. REF 05-40-00 FOR CFSF DESIGN. PROVIDE LOOSE LINTEL PER GENERAL NOTES FOR MASONRY.



**2 SECURITY FLOOR PLAN**  
1/8" = 1'-0"

- NOTES:**
- REFER TO 1/SS501 FOR TYPICAL SHEAR CONNECTION.
  - W8 BEAMS TO BE CENTERED UNDER NEW CMU WALLS. COORDINATE LOCATIONS WITH ARCH DRAWINGS.
  - CF2.0 INDICATES 2'-0" WIDE x 1'-0" THICK CONTINUOUS FOOTING WITH (2) #6 CONT. STEP FOOTING AS REQUIRED TO MATCH EXISTING FOOTING ELEVATIONS. PROVIDE 2 BARS THAT MATCH EXISTING REINFORCEMENT SIZE AND QUANTITY. LAP WITH CONTINUOUS FOOTING BARS WITH 2'-0" LAP.
- KEYNOTES:**
- 4" CONCRETE SLAB ON GRADE REINFORCED WITH 6x6-W1.4W1.4 WWR. T/S LAB EL (-2'-0") VIF. MATCH EXISTING SLAB.
  - DOWEL FOOTING AND FOUNDATION WALL REINFORCEMENT INTO EXISTING FOOTING / WALL. EMBED 4" WITH EPOXY ANCHOR.
  - INFILL EXISTING OPENING. REFER TO DETAIL 6/SS302. COORDINATE SIZE AND LOCATIONS WITH ARCH DRAWINGS.
  - 6" CMU WALL REINFORCED WITH #4 @ 48" OC AND (1) #4 ON EACH SIDE OF OPENINGS. REFER TO ARCH DRAWINGS FOR LOCATION. GROUT SOLID WHERE REQUIRED ON ARCH DRAWINGS. PROVIDE 8" DEEP BOND BEAM WITH (1) #5 OVER OPENINGS. BRACE TOP OF WALL PER DETAIL 7/SS505.
  - W8x24. CONNECT NORTH END PER DETAIL 6/SS503 AND SOUTH END PER TYPICAL SHEAR CONNECTION.
  - W8x24. CONNECT ENDS PER TYPICAL SHEAR CONNECTION.
  - W8x24. CONNECT EAST END PER DETAIL 6/SS503. NO CONNECTION TO EXISTING REQUIRED ON WEST END BEARING ONLY.

Revisions:	Date:

**CONSULTANTS:**  
**HEALTHCARE PLANNERS: VOA ARCHITECTS**  
**MEPPP + TECH + STRUCT: KJWW CONSULTING ENGINEERS**  
**CIVIL ENGINEER: JD ENGINEERING**  
**COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT**  
**INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.**

**ARCHITECT:**  

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**Drawing Title**  
**FIRST FLOOR FRAMING PLAN - LABORATORY AND SECURITY**

**Approved:** Project Director

**Project Title**  
**RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER**

**Location**  
 BONHAM, TEXAS

**Date**  
 APRIL 13, 2015

**Checked**  
 TODBAR

**Drawn**  
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**Project Number**  
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**Building Number**  
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**Drawing Number**  
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**Dwg. 49 of 142**

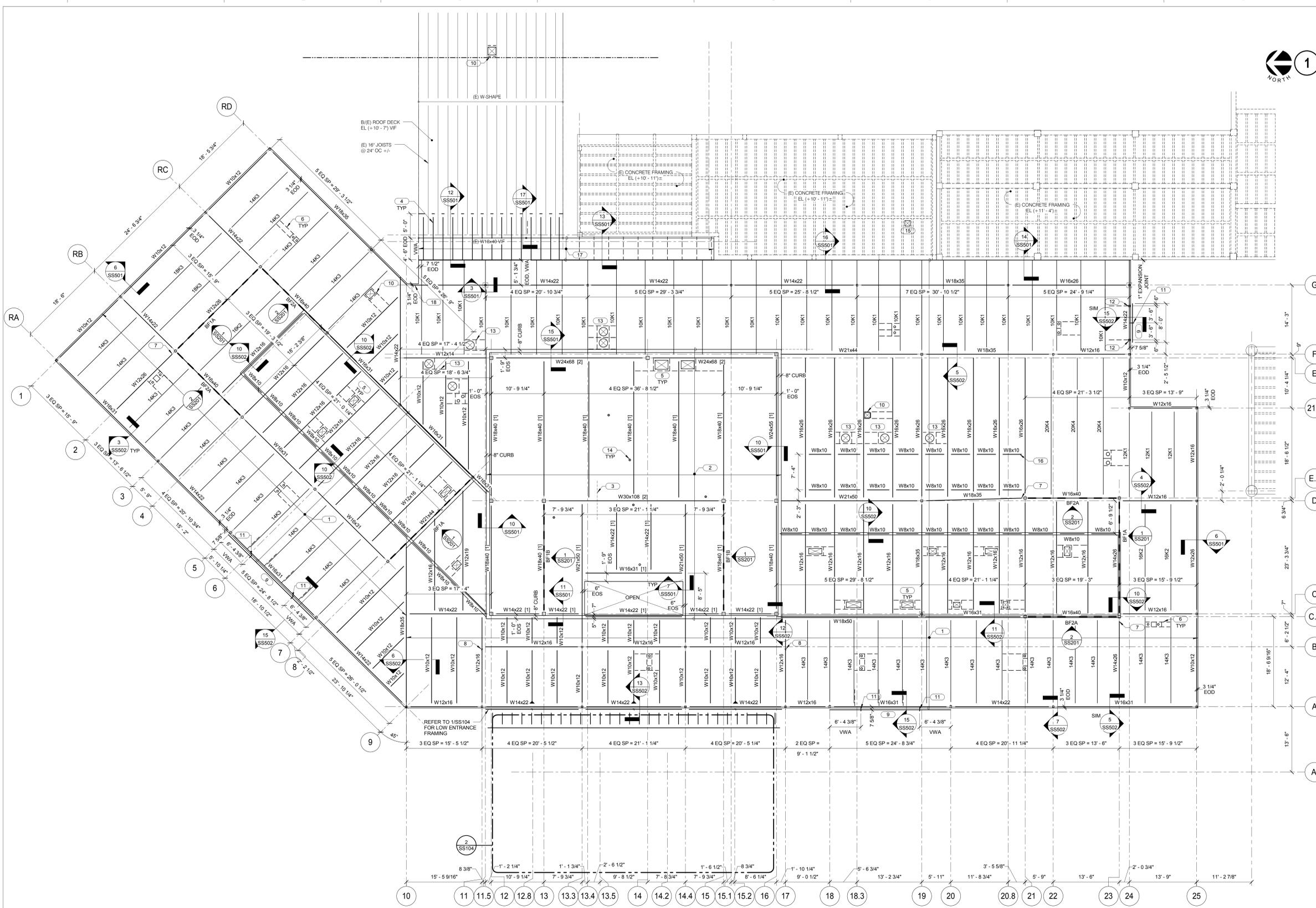
**Office of Facilities Management**

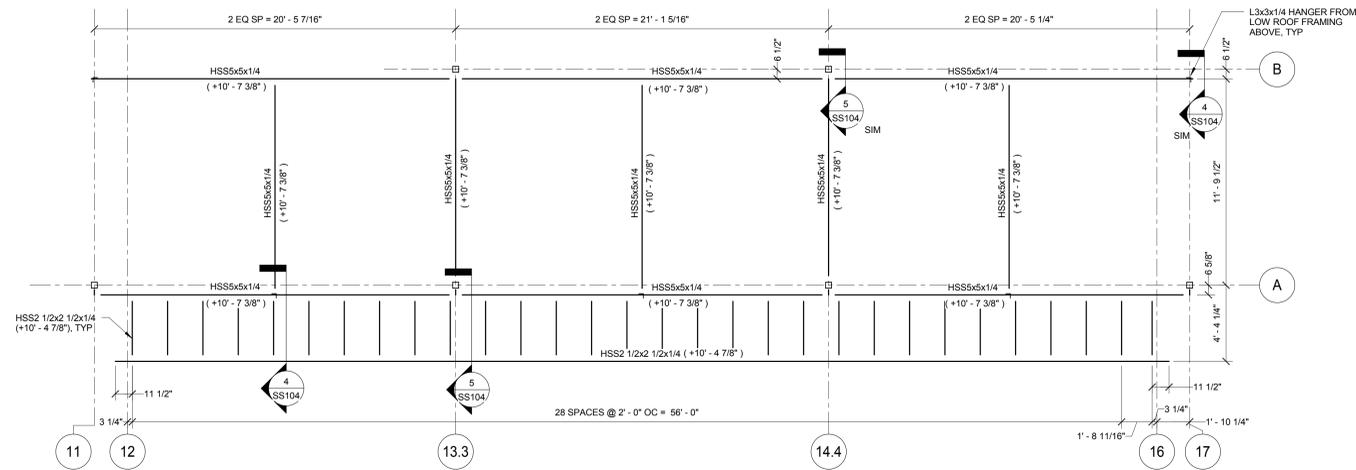
 **Department of Veterans Affairs**

# 1 LOW ROOF FRAMING

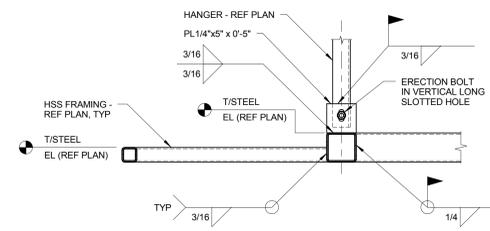
1/8" = 1'-0"

- NOTES:**
- REFER TO DETAIL 1 AND 2/SS501 FOR TYPICAL SHEAR CONNECTION.
  - UPLIFT BRIDGING NOT SHOWN. SIZE AND SPACING BY JOIST MANUFACTURER.
  - REFER TO DETAIL 8/SS503 FOR PATCHING OF SMALL ABANDONED HOLES LEFT FROM MEP DEMOLITION IN CONCRETE PAN JOIST FRAMING. PROVIDE 12 GA SHEET STEEL OVER OPENINGS IN EXISTING STEEL ROOF DECK (MAX 12" x 12" OPENING). ATTACH WITH #10 TEK SCREWS AT 6" OC AROUND PERIMETER. COORDINATE SIZE, QUANTITY, AND LOCATIONS WITH MEP CONTRACTORS.
  - PROVIDE JOIST WEB ANGLES PER DETAIL 9/SS502. COORDINATE QUANTITY AND LOCATIONS WITH MEP CONTRACTORS.
- KEYNOTES:**
- 1 1/2" (22 GA) TYPE B STEEL ROOF DECK, B/DECK EL (+15' - 8"). ATTACH DECK WITH 365 (2) PATTERN. REFER GENERAL NOTES FOR ADDITIONAL INFORMATION.
  - 3" NORMAL WEIGHT CONCRETE ON 3" (18 GA) COMPOSITE STEEL DECK (6" TOTAL THICKNESS). SLAB EL (+16' - 2"). REINFORCED WITH #6-W1.4W1.4 WWR. #I INDICATES 3/4" x 1/2" LONG HWS. REFER TO 9/SS501 FOR ADDITIONAL INFORMATION.
  - SLAB REINFORCEMENT OVER GIRDER. REFER TO 8/SS501 FOR ADDITIONAL INFORMATION.
  - HSS4x2 1/2x1/4 (LSH) AT 2'-0" OC. CENTER BETWEEN EXISTING JOISTS.
  - DUCT OPENING. PROVIDE FRAMING AROUND OPENING PER DETAIL 8/SS502. COORDINATE SIZE, QUANTITY AND LOCATION WITH MECHANICAL. WHEN OPENING IS IN CONCRETE FLOOR SLAB, PROVIDE 18 GA POUR STOP AROUND OPENING (1" MAX OVERHANG) WELDED TO SUPPORT ANGLES (1" @ 12" OC).
  - ROOF DRAIN. PROVIDE FRAMING AROUND OPENING PER DETAIL 8/SS502. COORDINATE SIZE, QUANTITY AND LOCATION WITH MECHANICAL AND ARCHITECTURAL.
  - USE TC BOLTS IN SHEAR CONNECTION AT THIS LOCATION.
  - HANGER CONNECTION PER 14/SS502
  - HSS6x3/8 (+10' - 7").
  - EXHAUST FAN. PROVIDE FRAMING UNDER CURB / OPENING PER DETAIL 8/SS502. COORDINATE SIZE, QUANTITY AND LOCATION WITH MECHANICAL.
  - HSS4x4 SUNSCREEN SUPPORT PER 15/SS502
  - HSS4x4/14 HANGER TO SUNSCREEN. CONNECT TO BEAM WITH 3/16" ALL AROUND FILLET WELD. SUPPORT HSS6x6 PER DETAIL 15/SS502
  - LIGHT TUBE OPENING. PROVIDE FRAMING AROUND OPENING PER DETAIL 8/SS502. COORDINATE SIZE, QUANTITY AND LOCATION WITH ARCH.
  - FLOOR DRAIN - COORDINATE SIZE, QUANTITY AND LOCATIONS WITH PLUMBING DRAWINGS. NO DECK REINFORCEMENT NEEDED IF OPENING IS SMALLER THAN 6" Ø HOLE. IF LARGER THAN 6" IN DIAMETER, PROVIDE ANGLE FRAMING PER DETAIL 8/SS502.
  - EXHAUST FAN IN EXISTING PAN JOIST ROOF. DO NOT CUT JOIST.
  - W8 BEAMS IN THIS AREA ARE FOR MECHANICAL CHILLER SUPPORT. CONTRACTOR TO VERIFY LOCATION OF THE W8 BEAMS TO ALIGN UNDER CHILLER RAILS.
  - 1 1/2" (22 GA) TYPE B STEEL ROOF DECK, B/DECK EL (+10' - 7") V/F. ATTACH DECK WITH 364 (1) PATTERN. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
  - PROVIDE HSS 1/2x2 1/2x3/16 WELDED TO TOP FLANGE OF BEAMS FOR DECK SUPPORT. WELD 2" AT 12" OC, BOTH SIDES.

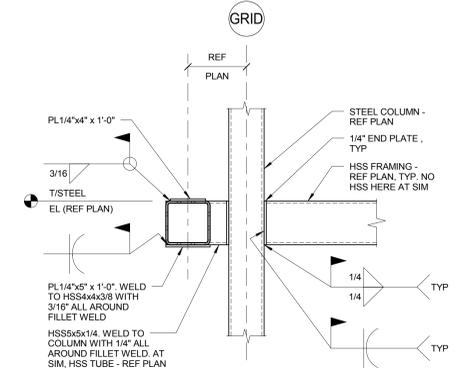




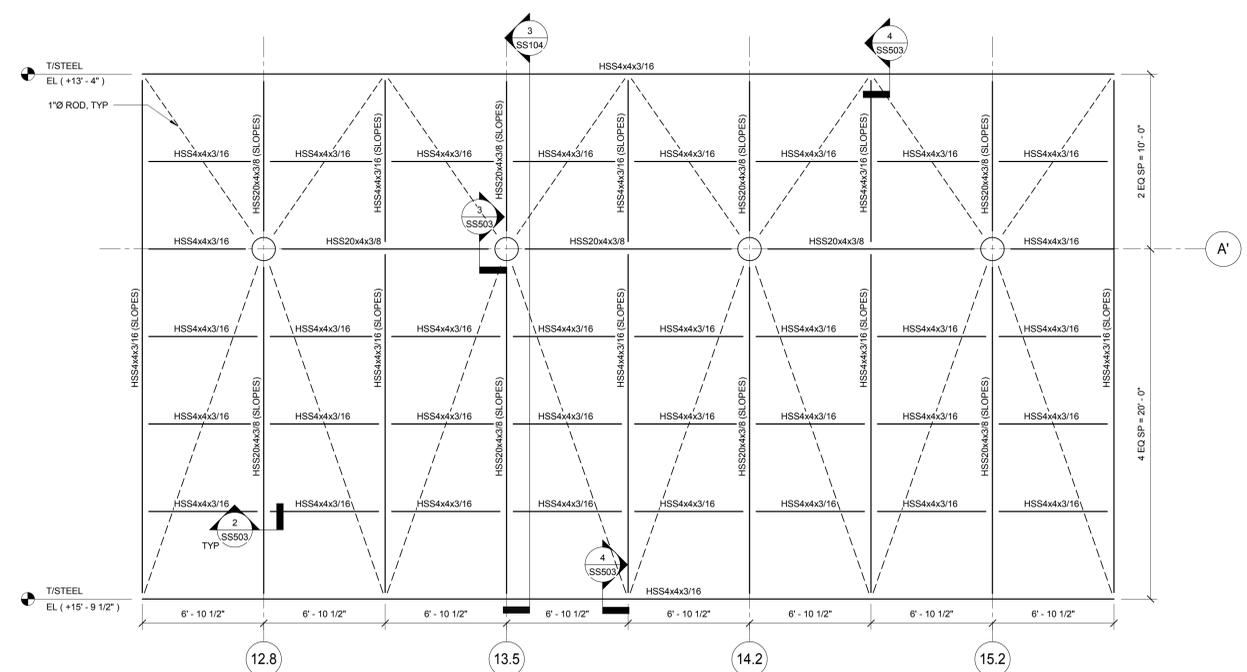
**1 ENLARGED ENTRANCE FRAMING PLAN**  
1/4" = 1'-0"  
NORTH



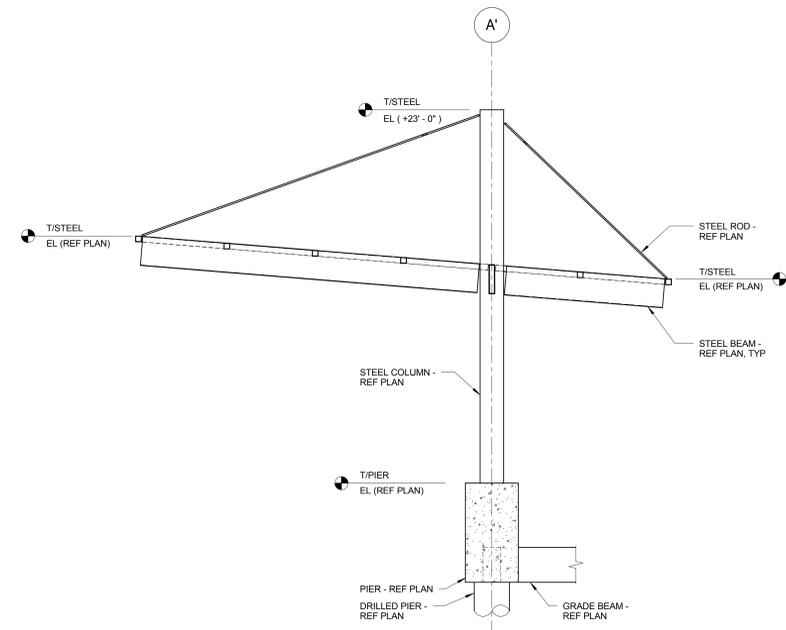
**4 FRAMING DETAIL**  
1" = 1'-0"  
NOTES:  
1. AT SIM. DETAIL REFERENCE IS FOR HANGER CONNECTION TO HSS.



**5 FRAMING DETAIL**  
1 1/2" = 1'-0"  
NOTES:  
1. 2 1/2" TUBE FRAMING NOT SHOWN FOR CLARITY. REFER TO 4SS104 FOR INFORMATION.



**2 CANOPY FRAMING PLAN**  
1/4" = 1'-0"  
NORTH



**3 CANOPY SECTION**  
1/4" = 1'-0"

Revisions:	Date:

**CONSULTANTS:**  
 HEALTHCARE PLANNERS: VOA ARCHITECTS  
 MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS  
 CIVIL ENGINEER: JD ENGINEERING  
 COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT  
 INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.

**ARCHITECT:**  

**MICHAEL ROTH & ASSOCIATES, ARCHITECTS & PLANNERS, INC.**  
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**Drawing Title**  
 ENLARGED FRAMING PLANS - AMBULATORY CARE

**Approved:** Project Director

**Project Title**  
 RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER

**Location**  
 BONHAM, TEXAS

**Date**  
 APRIL 13, 2015

**Checked**  
 TODBAR

**Drawn**  
 CAD

**Project Number**  
 549-130

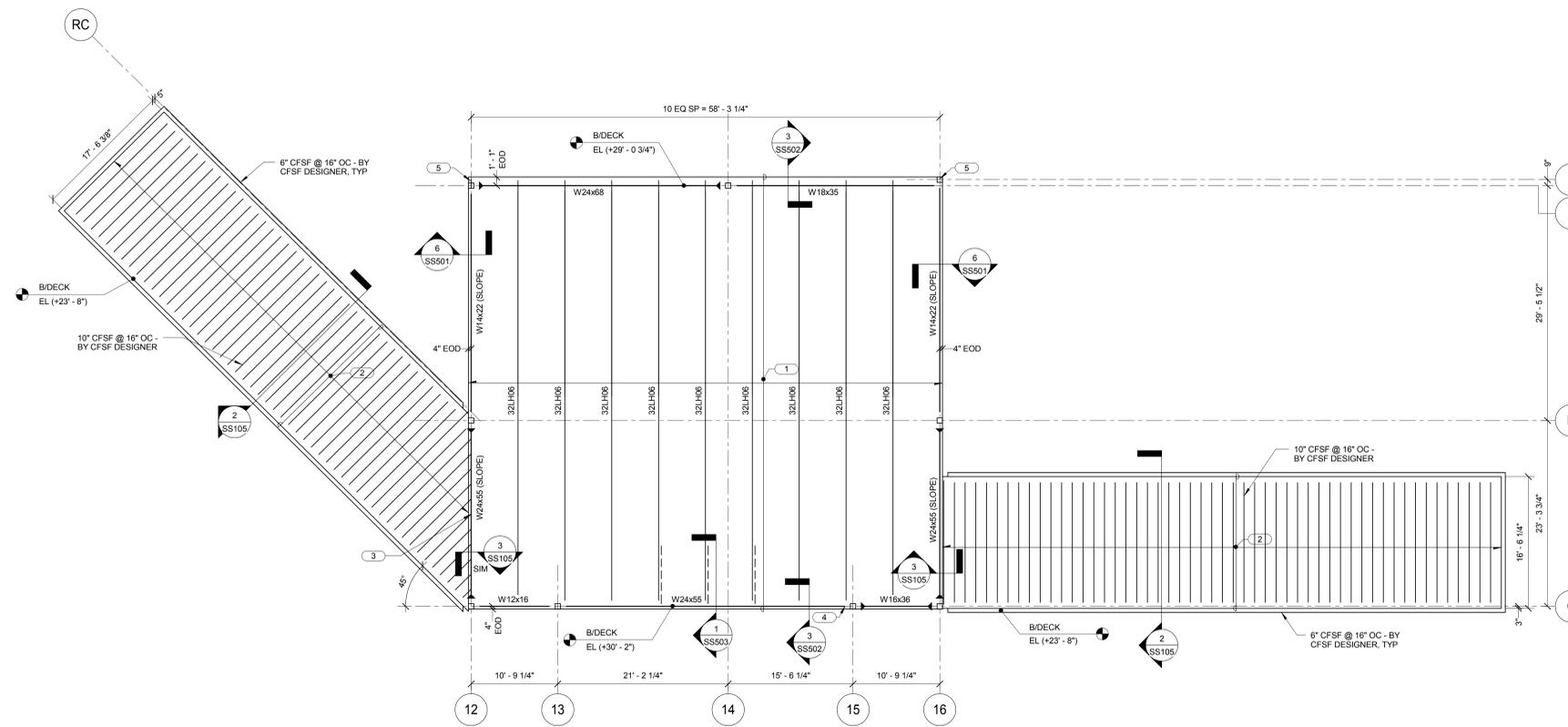
**Building Number**  
 1

**Drawing Number**  
 SS104

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**Office of Facilities Management**

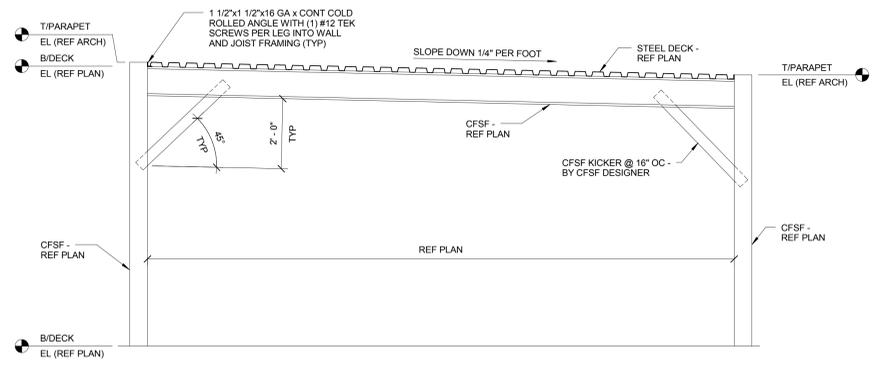
 **Department of Veterans Affairs**



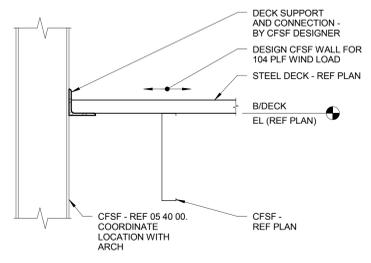
**1 UPPER ROOF FRAMING PLAN - AREA A**

- 1/8" = 1'-0"
- NOTES:**
- REFER TO DETAIL 1/SS501 FOR TYPICAL SHEAR CONNECTION.
  - UPLIFT BRIDGING NOT SHOWN. SIZE AND SPACING BY JOIST MANUFACTURER.
  - INDICATES MOMENT CONNECTION - REFER TO DETAIL 6/SS501.
- KEYNOTES:**
- 1 1/2" (22 GA) TYPE B STEEL ROOF DECK. ATTACH DECK WITH 3/8" (1) PATTERN. REFER GENERAL NOTES FOR ADDITIONAL INFORMATION.
  - 1 1/2" (22 GA) TYPE B STEEL ROOF DECK. ATTACH TO CFSF JOISTS WITH #12 TEK SCREWS IN 3/8"(0) PATTERN.
  - SUPPORT CFSF ROOF JOISTS ON 6" CFSF WALL STUD - DESIGN BY CFSF DESIGNER.
  - USE TC BOLTS IN SHEAR CONNECTION AT THIS LOCATION.
  - C5x6.7 DECK SUPPORT WELDED TO COLUMN CAP PLATE WITH 3/16" FILLET WELD, BOTH SIDES.

CFSF JOIST DESIGN LOADS	
SELF WEIGHT DEAD LOAD	BY CFSF DESIGNER
SUPERIMPOSED DEAD LOAD	25 PSF
SNOW LOAD	PER SS000
SNOW DRIFT	PER 1/SS000
ROOF LIVE LOAD	PER SS000
WIND LOAD	COMPONENTS AND CLADDING PER ASCE 7-10



**2 FRAMING SECTION**



**3 FRAMING DETAIL**

Revisions:	Date

**CONSULTANTS:**

HEALTHCARE PLANNERS: VOA ARCHITECTS  
 MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS  
 CIVIL ENGINEER: JD ENGINEERING  
 COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT  
 INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.

**ARCHITECT:**

**MICHAEL ROTH & ASSOCIATES, ARCHITECTS & PLANNERS, INC.**  
 200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112

Drawing Title  
**UPPER ROOF FRAMING PLAN - AMBULATORY CARE**

Approved: Project Director

Project Title  
**RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER**

Project Number  
 549-130

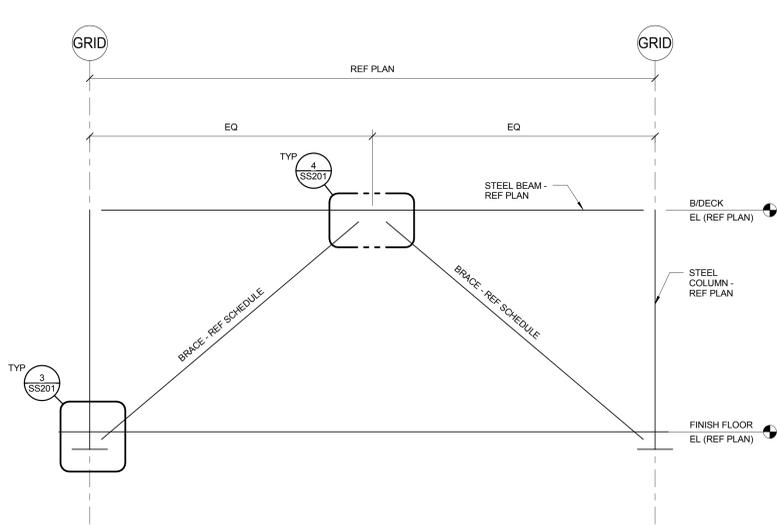
Building Number  
 1

Drawing Number  
 SS105

Dwg. 52 of 142

**Office of Facilities Management**

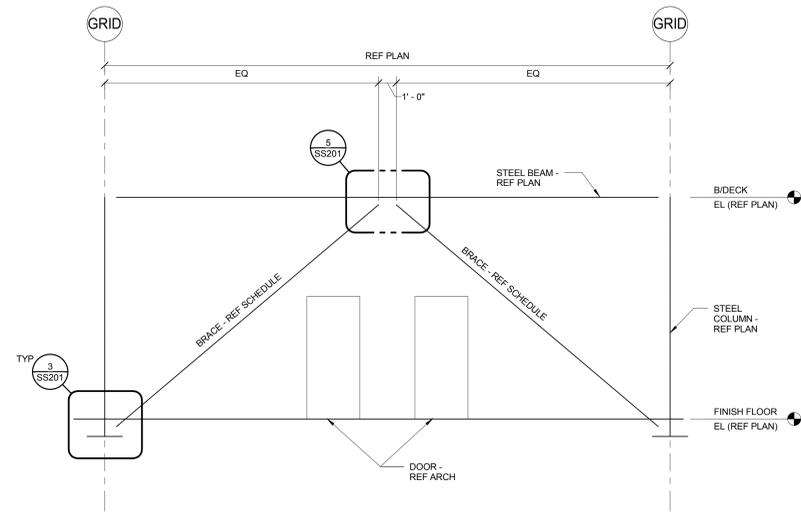
Department of Veterans Affairs



**1 BRACE FRAME (BF1) ELEVATION**

1/4" = 1'-0"  
 NOTES:  
 1. UNLESS NOTED OTHERWISE, WORKING POINTS TO ALIGN WITH CENTERLINE (MID-DEPTH) OF MEMBERS.  
 2. USE TC BOLTS IN BEAM TO COLUMN SHEAR CONNECTION.

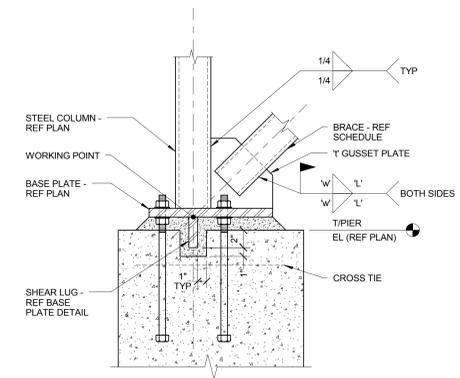
BRACED FRAME SCHEDULE				
MARK	BRACE SIZE	w'	L'	t'
BF1A	HSS4x4x1/4	1/4"	3'	1/2"
BF1B	HSS6x3x3/8	5/16"	3'	3/4"



**2 BRACE FRAME (BF2) ELEVATION**

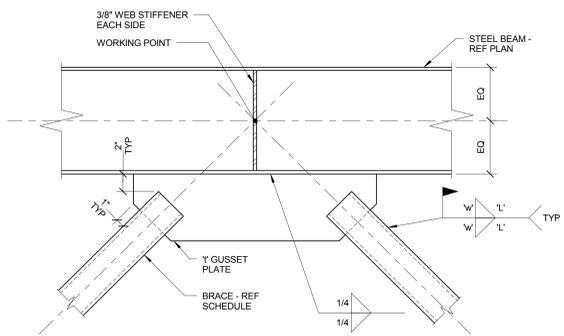
1/4" = 1'-0"  
 NOTES:  
 1. UNLESS NOTED OTHERWISE, WORKING POINTS TO ALIGN WITH CENTERLINE (MID-DEPTH) OF MEMBERS.  
 2. USE TC BOLTS IN BEAM TO COLUMN SHEAR CONNECTION.

BRACED FRAME SCHEDULE				
MARK	BRACE SIZE	w'	L'	t'
BF2A	HSS4x4x1/4	1/4"	3'	1/2"



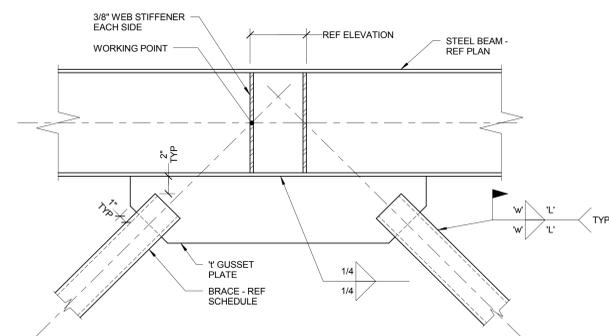
**3 FRAMING DETAIL**

1 1/2" = 1'-0"  
 NOTES:  
 1. REFER TO BRACED FRAME SCHEDULE ON BF1 AND BF2 FOR ADDITIONAL CONNECTION INFORMATION.



**4 FRAMING DETAIL**

1 1/2" = 1'-0"  
 NOTES:  
 1. REFER TO BRACED FRAME SCHEDULE ON BF1 AND BF2 FOR ADDITIONAL CONNECTION INFORMATION.



**5 FRAMING DETAIL**

1 1/2" = 1'-0"  
 NOTES:  
 1. REFER TO BRACED FRAME SCHEDULE ON BF1 AND BF2 FOR ADDITIONAL CONNECTION INFORMATION.

Revisions:	Date:

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 HEALTHCARE PLANNERS: VOA ARCHITECTS  
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 CIVIL ENGINEER: JD ENGINEERING  
 COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT  
 INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.

**ARCHITECT:**  

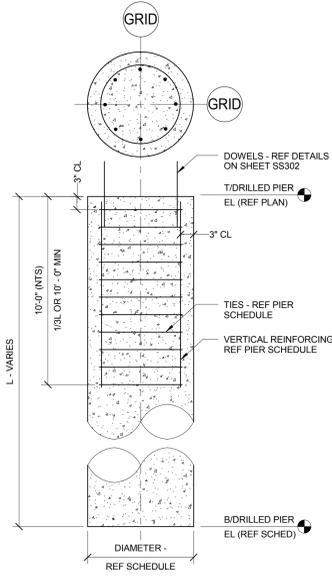
**MICHAEL ROTH & ASSOCIATES, ARCHITECTS & PLANNERS, INC.**  
 200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112

Drawing Title  
**BRACED FRAME ELEVATIONS**  
 Approved: Project Director

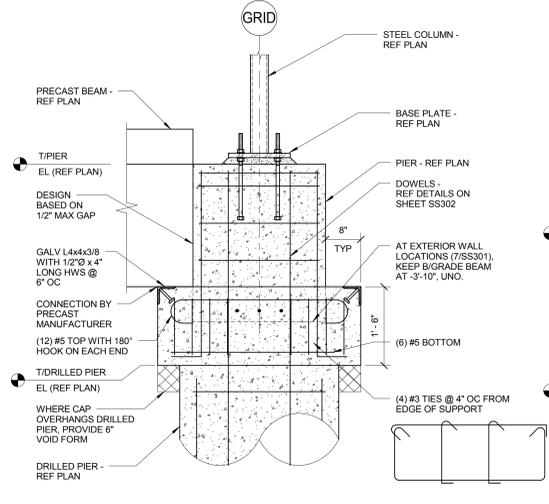
Project Title  
**RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER**  
 Location  
 BONHAM, TEXAS  
 Date  
 APRIL 13, 2015  
 Checked  
 TODBAR  
 Drawn  
 CAD  
 Project Number  
 549-130  
 Building Number  
 1  
 Drawing Number  
 SS201  
 Dwg. 53 of 142

**Office of Facilities Management**  

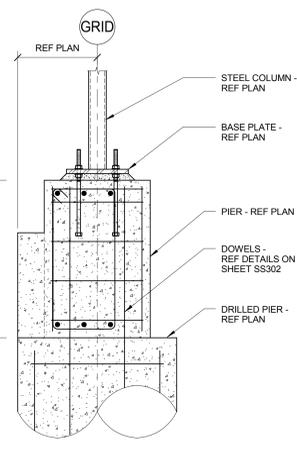
 Department of Veterans Affairs



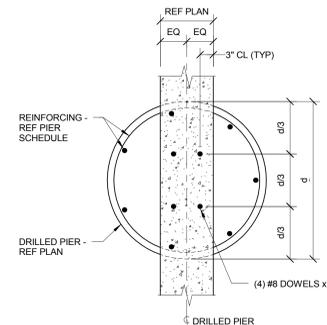
**1 TYPICAL STRAIGHT SHAFT DRILLED PIER**  
3/4" = 1'-0"



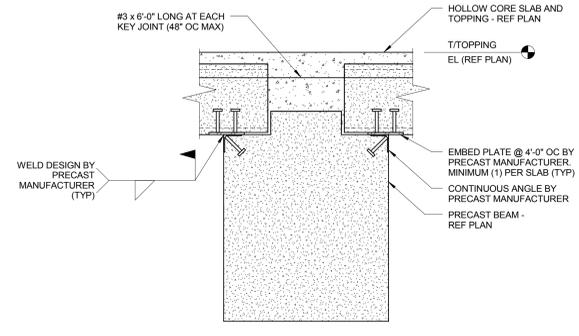
**2 TYPICAL COLUMN ON DRILLED PIER**  
3/4" = 1'-0"



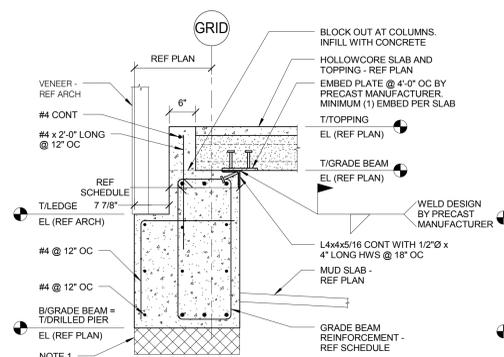
**3 TYPICAL EXTERIOR COLUMN ON DRILLED PIER**  
3/4" = 1'-0"



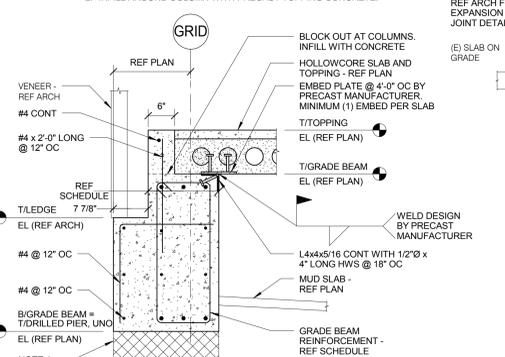
**4 TYPICAL GRADE BEAM DOWEL DETAIL**  
3/4" = 1'-0"



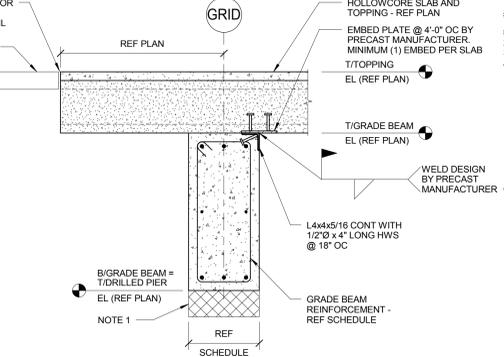
**5 TYPICAL HOLLOW CORE SLAB BEARING ON PRECAST BEAM**  
1" = 1'-0"



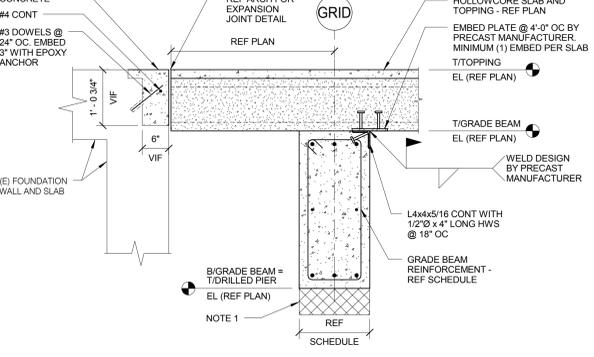
**6 FOUNDATION DETAIL**  
3/4" = 1'-0"



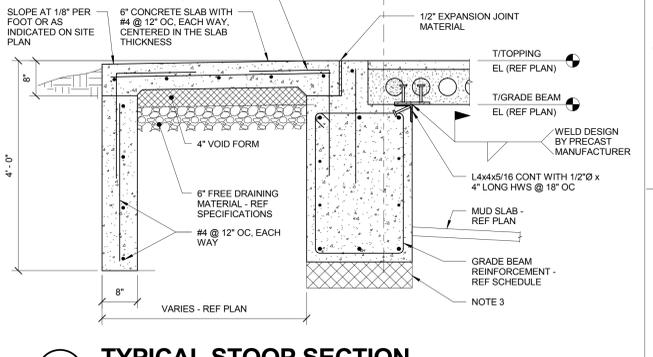
**7 FOUNDATION DETAIL**  
3/4" = 1'-0"



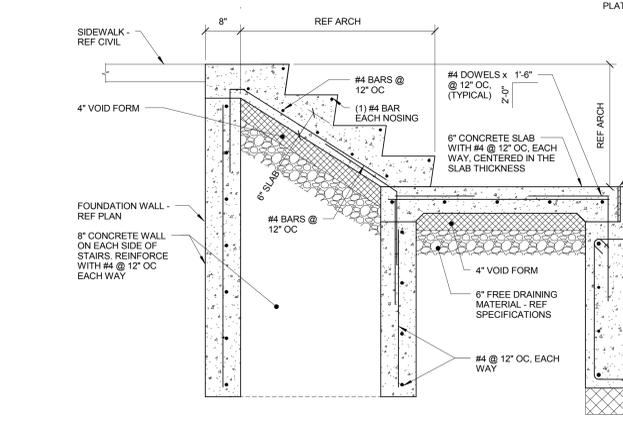
**8 FOUNDATION DETAIL**  
3/4" = 1'-0"



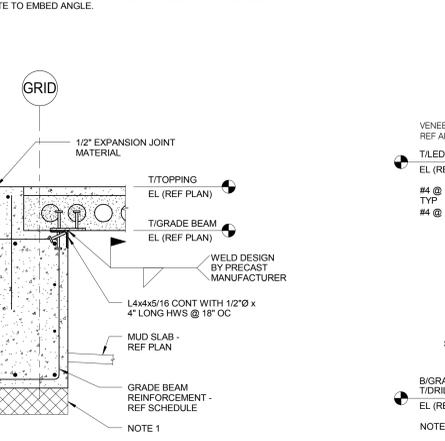
**9 FOUNDATION DETAIL**  
3/4" = 1'-0"



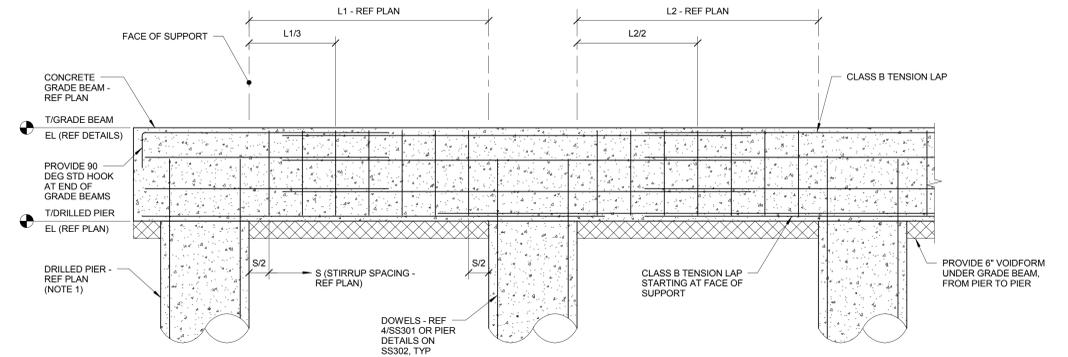
**10 TYPICAL STOOP SECTION**  
3/4" = 1'-0"



**11 STOOP SECTION**  
3/4" = 1'-0"



**12 FOUNDATION DETAIL**  
3/4" = 1'-0"



**13 TYPICAL GRADE BEAM DETAIL**  
1/2" = 1'-0"

Revisions	Date

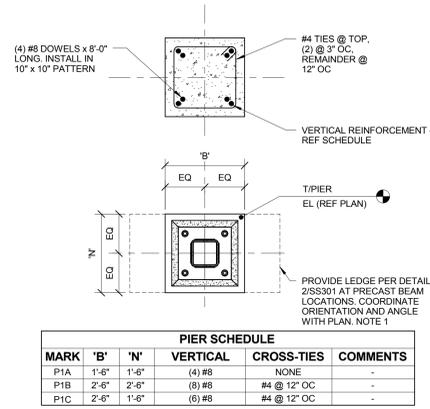
**CONSULTANTS:**  
**HEALTHCARE PLANNERS: VOA ARCHITECTS**  
**MEPPP + TECH + STRUCT: KJWW CONSULTING ENGINEERS**  
**CIVIL ENGINEER: JD ENGINEERING**  
**COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT**  
**INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.**

**ARCHITECT:**  
  
**MICHAEL ROTH & ASSOCIATES, ARCHITECTS & PLANNERS, INC.**  
 200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112

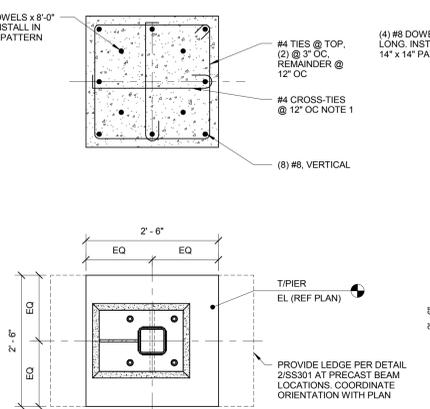
**Drawing Title**  
 FOUNDATION DETAILS  
**Approved:** Project Director

**Project Title**  
 RENOVATE AND EXPAND  
 AMBULATORY CARE AND LAB.  
 SAM RAYBURN MEMORIAL  
 VETERANS CENTER  
**Location**  
 BONHAM, TEXAS  
**Date**  
 APRIL 13, 2015  
**Checked**  
 TODBAR  
**Drawn**  
 CAD  
**Project Number**  
 549-130  
**Building Number**  
 1  
**Drawing Number**  
 SS301  
 Dwg. 54 of 142

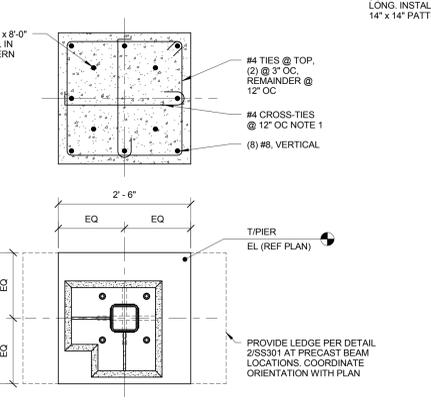
**Office of Facilities Management**  
  
 Department of Veterans Affairs



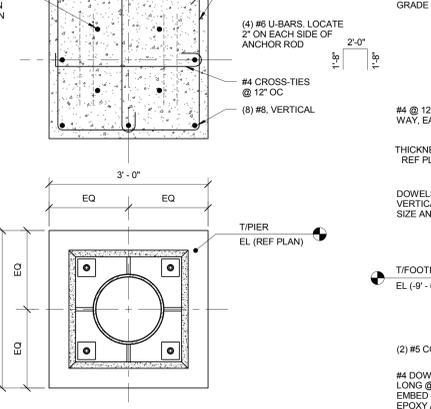
**1 PIER (P1) DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. AT LOCATIONS WHERE PRECAST BEAM IS OFFSET FROM DR, OFFSET LEDGE AS REQUIRED FOR PRECAST BEAM SUPPORT.



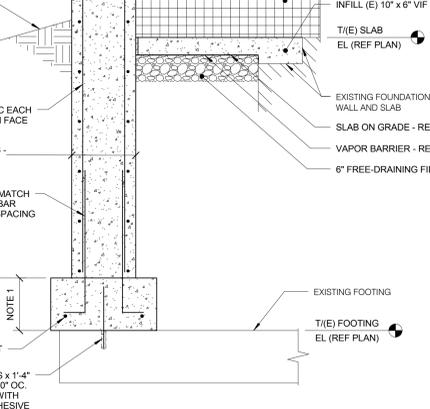
**2 PIER (P2) DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. HOLD CROSS TIES DOWN FROM TOP OF PIER TO CLEAR SHEAR LUG RECESS. REFER TO 3/SS201 FOR ADDITIONAL INFORMATION.



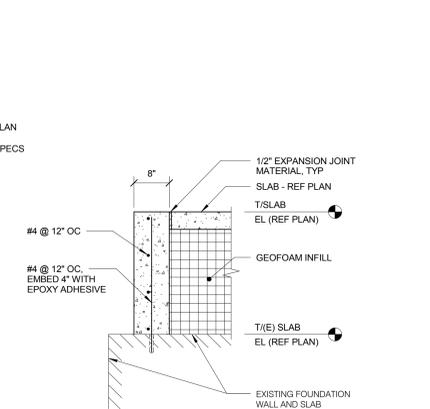
**3 PIER (P3) DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. HOLD CROSS TIES DOWN FROM TOP OF PIER TO CLEAR SHEAR LUG RECESS. REFER TO 3/SS201 FOR ADDITIONAL INFORMATION.



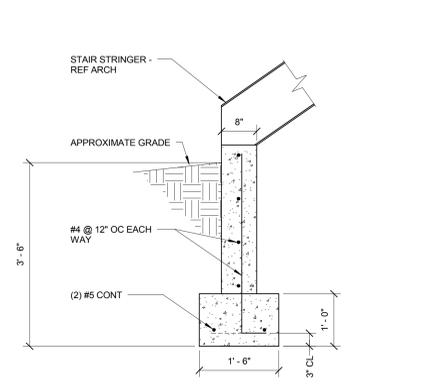
**4 PIER (P4) DETAIL**  
 3/4" = 1'-0"



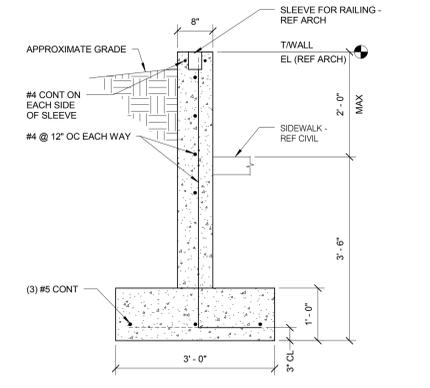
**5 FOUNDATION DETAIL**  
 3/4" = 1'-0"



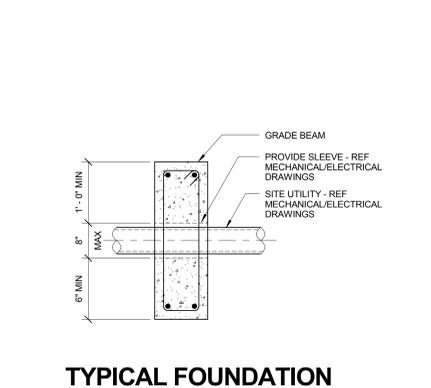
**6 FOUNDATION DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. COORDINATE WALL LOCATION WITH ARCH.



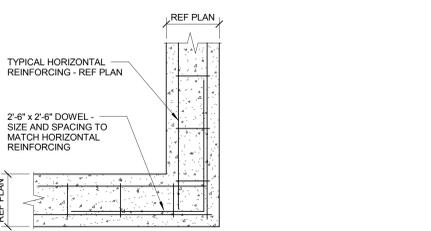
**7 FOUNDATION DETAIL**  
 3/4" = 1'-0"



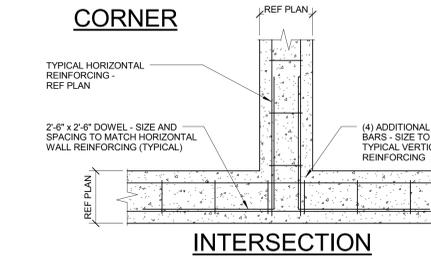
**8 FOUNDATION DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. AT SIM, SIDEWALK IS HIGHER THAN GRADE. 3'-6" MIN DIMENSION IS FROM TOP OF GRADE. COORDINATE FOOTING ELEVATIONS WITH FINAL GRADE.



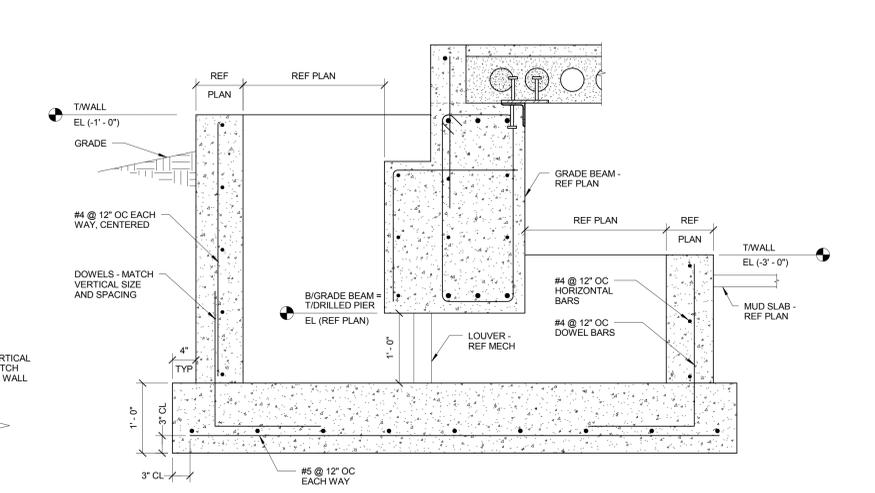
**9 TYPICAL FOUNDATION DETAILS AT SITE UTILITIES**  
 3/4" = 1'-0"  
 NOTES:  
 1. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS, ELEVATIONS, ETC., OF SITE UTILITIES.



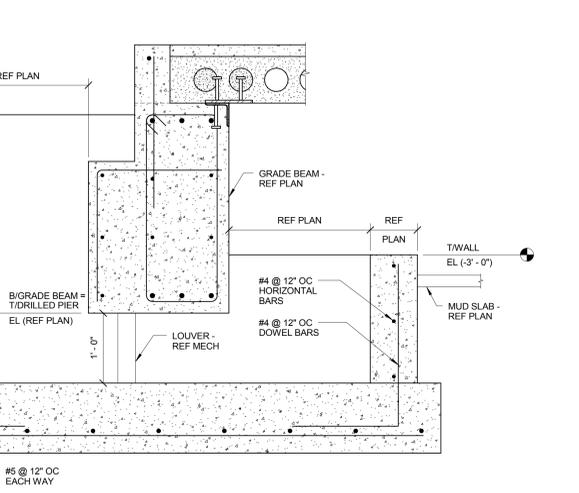
**CORNER**



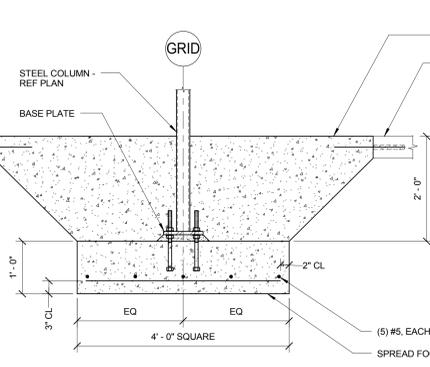
**INTERSECTION**



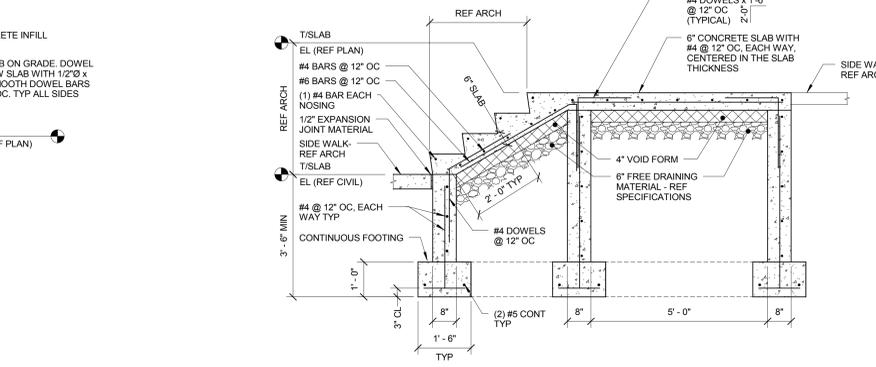
**10 TYPICAL GRADE BEAM DETAIL**  
 3/4" = 1'-0"



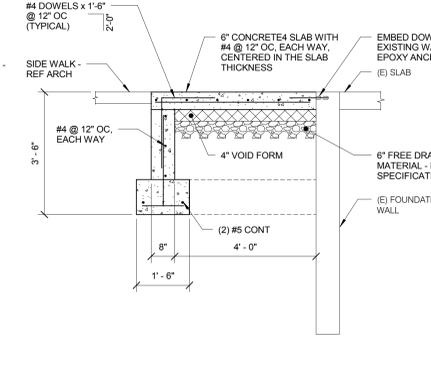
**11 FOUNDATION DETAIL**  
 1" = 1'-0"



**12 FOUNDATION DETAIL**  
 3/4" = 1'-0"



**13 STAIR SECTION**  
 1/2" = 1'-0"



**14 STOOP DETAIL**  
 1/2" = 1'-0"

Revisions:	Date:

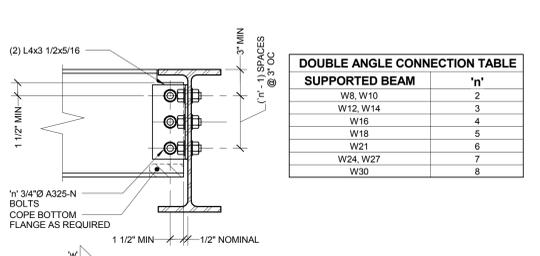
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 HEALTHCARE PLANNERS: VOA ARCHITECTS  
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 200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112

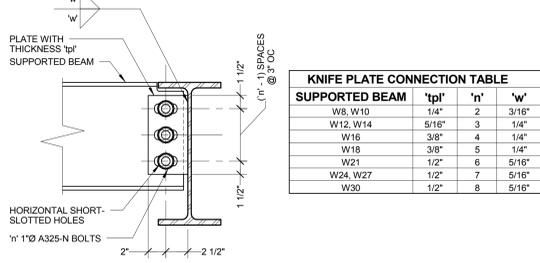
Drawing Title  
**FOUNDATION DETAILS**  
 Approved: Project Director

Project Title  
**RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER**  
 Location  
**BONHAM, TEXAS**  
 Date  
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 Project Number  
**549-130**  
 Building Number  
**1**  
 Drawing Number  
**SS302**  
 Dwg. 55 of 142

**Office of Facilities Management**  
 Department of Veterans Affairs



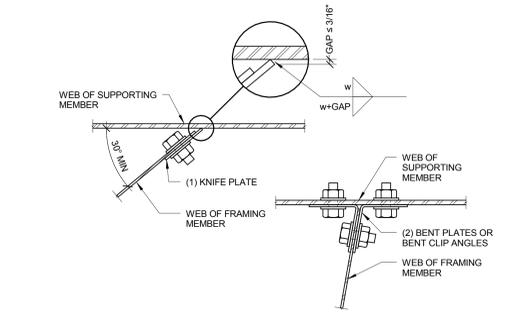
DOUBLE ANGLE CONNECTION TABLE			
SUPPORTED BEAM	"h"	"t"	"w"
W8, W10	2	1/2"	3/16"
W12, W14	3	1/2"	3/16"
W16	4	1/2"	3/16"
W18	5	1/2"	3/16"
W21	6	1/2"	3/16"
W24, W27	7	1/2"	3/16"
W30	8	1/2"	3/16"



KNIFE PLATE CONNECTION TABLE			
SUPPORTED BEAM	"tpl"	"h"	"w"
W8, W10	1/4"	2	3/16"
W12, W14	5/16"	3	1/4"
W16	3/8"	4	1/4"
W18	3/8"	5	1/4"
W21	1/2"	6	5/16"
W24, W27	1/2"	7	5/16"
W30	1/2"	8	5/16"

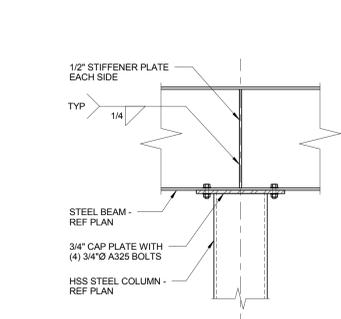
**1 TYPICAL SHEAR CONNECTION**

- 1 1/2" = 1'-0"
- NOTES:
- BOTH DOUBLE ANGLE AND KNIFE PLATE CONNECTION CONFIGURATIONS ARE ACCEPTABLE, UNLESS NOTED OTHERWISE. FABRICATOR AND DETAILER SHALL SELECT WHICH OPTION IS BEST SUITED FOR THEIR FABRICATION PROCESS AND THE ANTICIPATED ERECTION PROCEDURES.
  - DETAIL TO BE SIMILAR AT CONNECTIONS TO WIDE FLANGE OR HSS COLUMNS.
  - UNLESS NOTED OTHERWISE, PROVIDE SHEAR CONNECTIONS AS INDICATED BY THIS DETAIL.
  - DETAILER IS RESPONSIBLE FOR FULLY DEVELOPING GEOMETRY AND DIMENSIONAL INFORMATION REQUIRED TO FABRICATE.
  - WHERE TYPICAL SHEAR CONNECTION DETAIL IS NOT APPLICABLE, FABRICATOR SHALL SELECT AND DETAIL ALTERNATE CONNECTION CAPABLE OF DEVELOPING EQUAL STRENGTH. ALTERNATE CONNECTION SHALL BE SELECTED IN ACCORDANCE WITH AISC ASD CONNECTION TABLES.



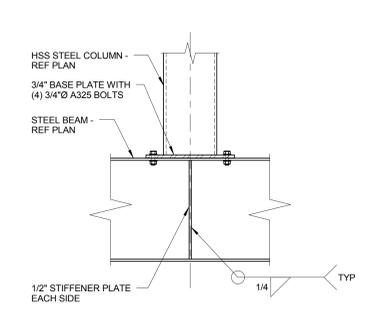
**2 TYPICAL SKEWED CONNECTION**

- 3" = 1'-0"
- NOTES:
- DETAILER MAY SELECT DOUBLE BENT ANGLES, DOUBLE BENT PLATES, OR SINGLE KNIFE PLATE AS BEST APPLIES TO CONNECTION.
  - "w" IS WELD SIZE FROM TYPICAL SHEAR CONNECTION.



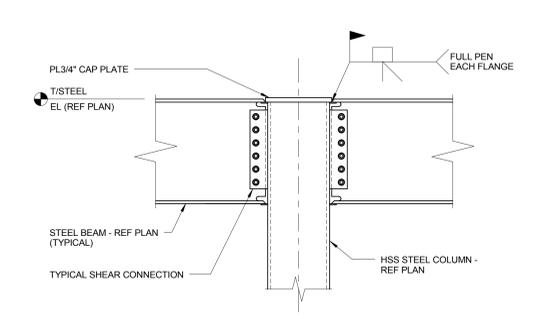
**3 BEAM BEARING ON COLUMN**

3/4" = 1'-0"



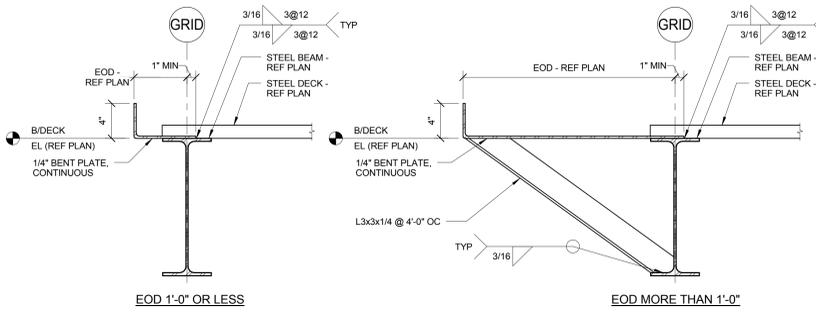
**4 COLUMN BEARING ON BEAM**

3/4" = 1'-0"



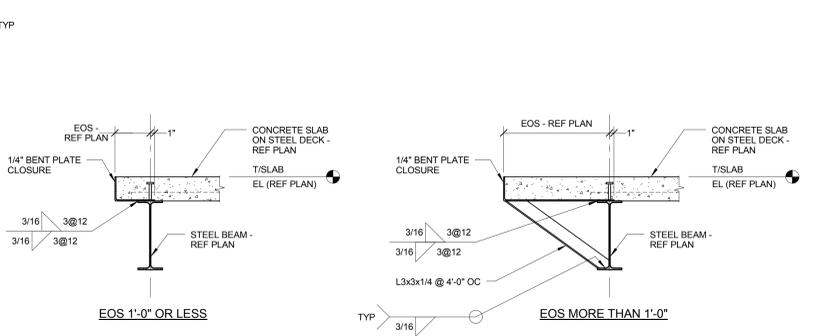
**5 TYPICAL ROOF MOMENT CONNECTION**

- 3/4" = 1'-0"
- NOTES:
- BACKING SHALL BE USED FOR ALL FULL PENETRATION WELDS.
  - OTHER FRAMING MEMBERS NOT SHOWN FOR CLARITY.
  - USE TC BOLTS IN BEAM TO COLUMN SHEAR CONNECTION.



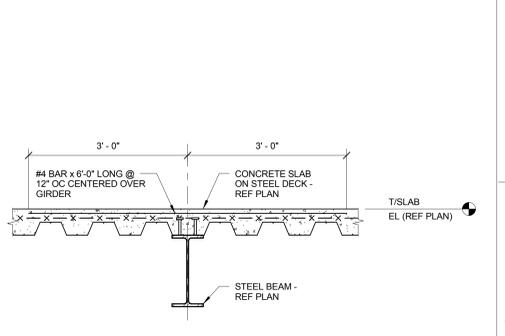
**6 TYPICAL CLOSURE PLATE DETAIL**

1 1/2" = 1'-0"



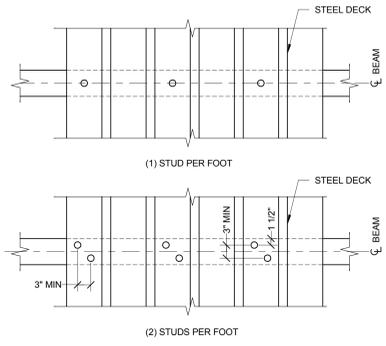
**7 TYPICAL SLAB EDGE DETAIL**

3/4" = 1'-0"



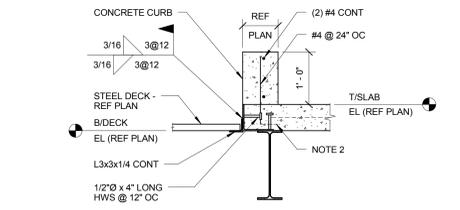
**8 TYPICAL GIRDER DETAIL**

- 3/4" = 1'-0"
- NOTES:
- A STEEL GIRDER IS DEFINED AS A STEEL BEAM FRAMING BETWEEN COLUMNS AND SUPPORTING OTHER BEAMS.



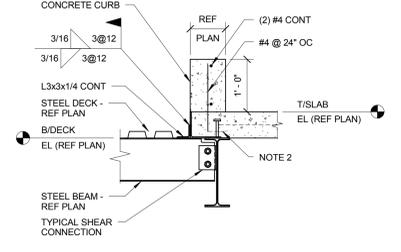
**9 TYPICAL SHEAR STUD SPACING**

- 3/4" = 1'-0"
- NOTES:
- WHERE STEEL DECK IS PARALLEL WITH BEAM, LOCATE STUDS ON BEAM CENTERLINE WITH SPACING OF 6" OC OR 1'-0" OC AS INDICATED ON PLAN. UNO



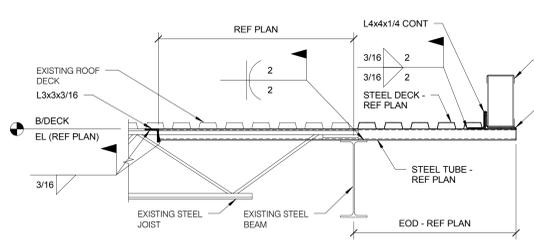
**10 FRAMING DETAIL**

- 3/4" = 1'-0"
- NOTES:
- REFER TO DETAIL 7/SS501 FOR ADDITIONAL INFORMATION.
  - PROVIDE STD 90° HOOK INTO SLAB. AT CONTRACTORS OPTION, DRILL AND EPOXY VERTICAL BAR INTO SLAB. EMBED 4".



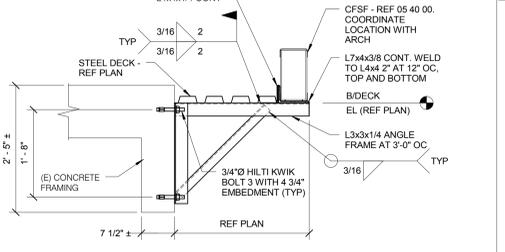
**11 FRAMING DETAIL**

- 3/4" = 1'-0"
- NOTES:
- REFER TO DETAIL 7/SS501 FOR ADDITIONAL INFORMATION.
  - PROVIDE STD 90° HOOK INTO SLAB. AT CONTRACTORS OPTION, DRILL AND EPOXY VERTICAL BAR INTO SLAB. EMBED 4".



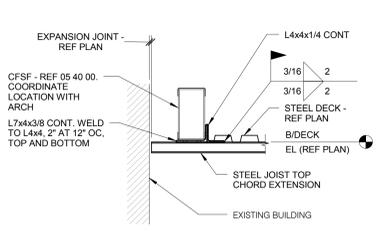
**12 FRAMING DETAIL**

- 3/4" = 1'-0"
- NOTES:
- NEW HIGHER ROOF NOT SHOWN. REFER TO 16/SS501.



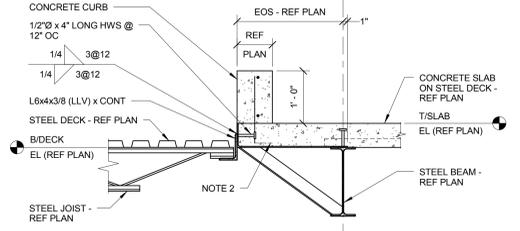
**13 FRAMING DETAIL**

- 3/4" = 1'-0"
- NOTES:
- NEW HIGHER ROOF NOT SHOWN. REFER TO 14/SS501.
  - DO NOT CUT EXISTING REINFORCEMENT TO INSTALL ANCHORS. PATCH ABANDONED HOLES WITH NON-SHRINK GROUT.



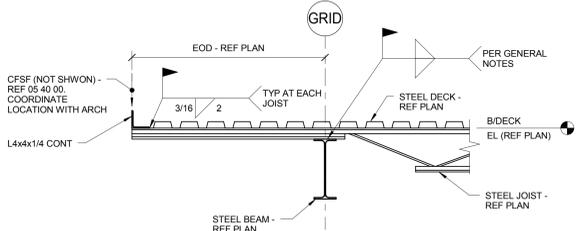
**14 FRAMING DETAIL**

- 3/4" = 1'-0"
- NOTES:
- TOP CHORD EXTENSION LOADS:
    - A. ROOF DEAD LOAD = 25 PSF
    - B. ROOF LIVE LOAD = 20 PSF
    - C. ROOF SNOW LOAD = REF GENERAL NOTES
    - D. CFSF WALL = 50 PLF



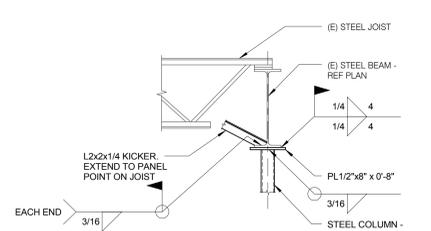
**15 FRAMING DETAIL**

- 3/4" = 1'-0"
- NOTES:
- REFER TO DETAIL 7/SS501 FOR ADDITIONAL INFORMATION.
  - PROVIDE STD 90° HOOK INTO SLAB. AT CONTRACTORS OPTION, DRILL AND EPOXY VERTICAL BAR INTO SLAB. EMBED 4".



**16 FRAMING DETAIL**

- 3/4" = 1'-0"
- NOTES:
- TOP CHORD EXTENSION LOADS:
    - A. ROOF DEAD LOAD = 25 PSF
    - B. ROOF LIVE LOAD = 20 PSF
    - C. ROOF SNOW LOAD = REF GENERAL NOTES
    - D. CFSF WALL = 50 PLF



**17 FRAMING DETAIL**

- 3/4" = 1'-0"
- NOTES:
- ADDITIONAL NEW FRAMING NOT SHOWN. REFER TO 12/SS501.

**CONSULTANTS:**

HEALTHCARE PLANNERS: VOA ARCHITECTS  
 MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS  
 CIVIL ENGINEER: JD ENGINEERING  
 COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT  
 INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.

**ARCHITECT:**

**MICHAEL ROTH & ASSOCIATES, ARCHITECTS & PLANNERS, INC.**  
 200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112

Drawing Title  
**FRAMING DETAILS**

Approved: Project Director

Project Title  
**RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER**

Project Number  
 549-130

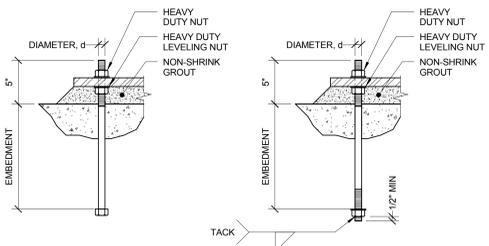
Building Number  
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Drawing Number  
 SS501

Dwg. 56 of 142

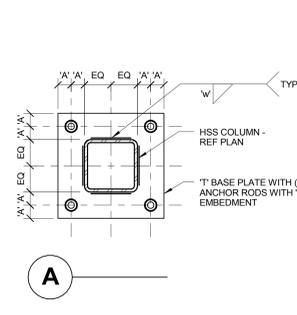
**Office of Facilities Management**

Department of Veterans Affairs



### 1 TYPICAL ANCHOR ROD

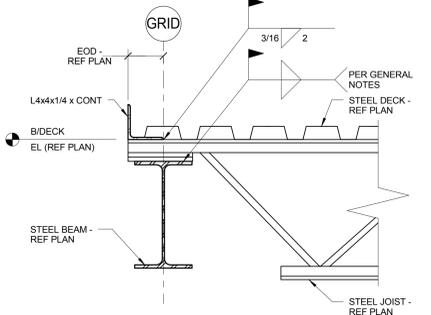
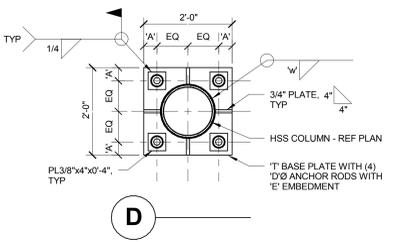
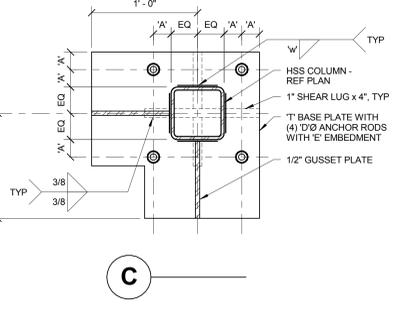
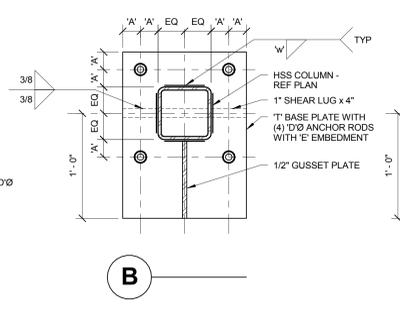
- 1 1/2" = 1'-0"
- NOTES:
- REFERENCE BASE PLATE DETAILS FOR DIAMETER AND EMBEDMENT.
  - REFERENCE GENERAL NOTES FOR MATERIAL REQUIREMENTS.
  - ANCHOR RODS SHALL BE SET PRIOR TO PLACEMENT OF CONCRETE.
  - PROTECT ANCHOR RODS FROM DAMAGE.
  - ANCHOR SHALL BE SET SO AS NOT TO VARY FROM THE DIMENSIONS SHOWN ON THE ERECTION DRAWINGS BY MORE THAN THE FOLLOWING:
    - 1/8" CENTER TO CENTER OF ANY TWO RODS WITHIN AN ANCHOR ROD GROUP.
    - 1/4" CENTER TO CENTER OF ADJACENT ANCHOR ROD GROUPS.
    - ELEVATION OF THE TOP OF ANCHOR RODS ± 1/2".
    - MAXIMUM ACCUMULATION OF 1/4" PER HUNDRED FEET ALONG THE ESTABLISHED COLUMN LINE.
    - 1/4" FROM THE CENTER OF ANY ANCHOR ROD GROUP TO THE ESTABLISHED COLUMN LINE THROUGH THAT GROUP.
  - SET ANCHOR RODS PERPENDICULAR TO BEARING SURFACE, UNLESS NOTED OTHERWISE.
  - PROVIDE 2" NON-SHRINK GROUT AT ALL BASE PLATES.



BASE PLATE SCHEDULE							
MARK	DETAIL	'T'	'A'	'D'	'E'	'W'	COMMENTS
BP1	A	3/4"	1 1/2"	3/4"	9"	1/4"	-
BP2	A	1"	1 1/2"	3/4"	9"	1/4"	-
BP3	B	1"	2"	1"	12"	5/16"	-
BP4	C	1"	2"	1"	12"	5/16"	-
BP5	D	1 3/4"	2 1/2"	1 1/4"	18"	5/16"	NOTE 3

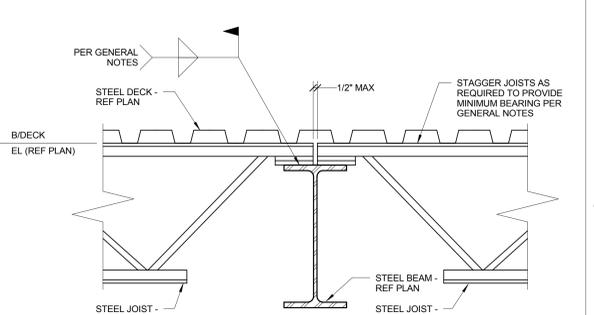
### 2 BASE PLATE DETAIL

- NO SCALE
- NOTES:
- REFER TO TYPICAL ANCHOR ROD DETAIL FOR ADDITIONAL INFORMATION.
  - NO WELDS REQUIRED AT RADIIUSES.
  - PROVIDE PL3/8"x3" x 0'-3" ON END OF ANCHOR ROD IN PIER.



### 3 TYPICAL ROOF EDGE DETAIL

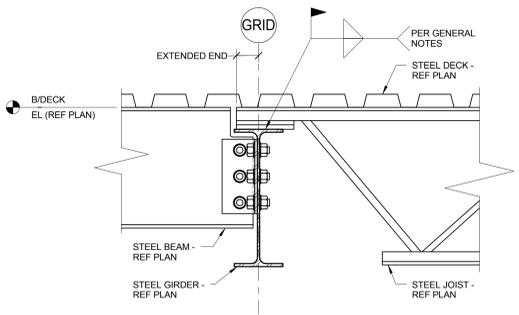
1 1/2" = 1'-0"



### 4 TYPICAL JOIST BEARING DETAIL

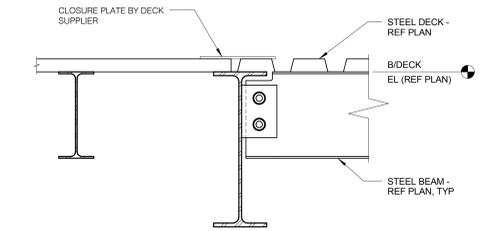
1 1/2" = 1'-0"

- NOTES:
- JOISTS AT OR IMMEDIATELY ADJACENT TO COLUMNS SHALL BE BOLTED WITH (2) BOLTS ON BEAM GAGE. REFER TO GENERAL NOTES FOR BOLT DIAMETER.



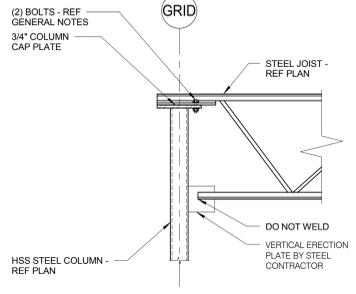
### 5 SECTION AT ROOF GIRDER

- 1 1/2" = 1'-0"
- NOTES:
- AT SIM, NO JOIST, WELD HSS2 1/2x2 1/2x3/16 x GIRDER FLANGE WIDTH TO TOP OF GIRDER FOR CONTINUOUS EDGE ANGLE SUPPORT.



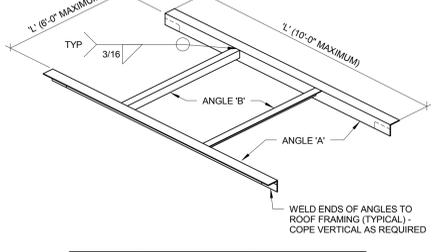
### 6 TYPICAL DECK DIRECTION CHANGE

1 1/2" = 1'-0"



### 7 TYPICAL STEEL JOIST AT HSS COLUMN

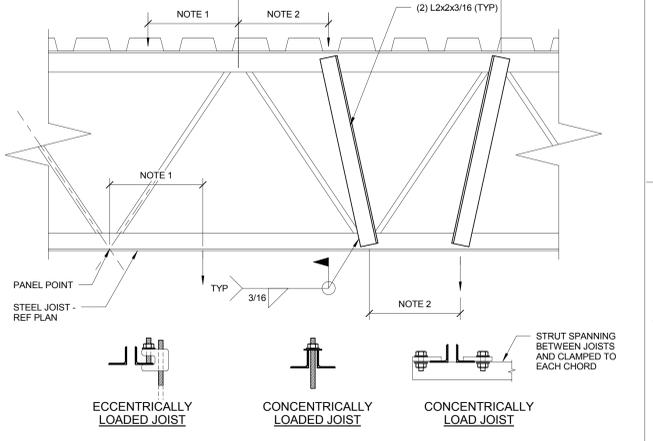
- 3/4" = 1'-0"
- NOTES:
- GIRDER NOT SHOWN FOR CLARITY.
  - DECK NOT SHOWN FOR CLARITY.
  - CONNECTION SHOWN IS BASED ON STEEL JOIST INSTITUTE REQUIREMENTS FOR K-SERIES BAR JOISTS. CONNECTION DETAIL NOT APPLICABLE FOR LH-SERIES JOISTS OR JOIST GIRDERS.



### 8 DECK OPENING FRAMING DETAIL

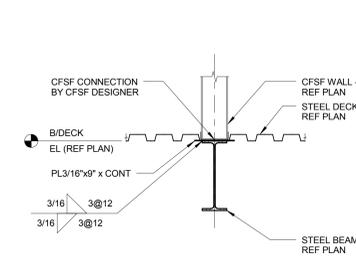
- 3/4" = 1'-0"
- NOTES:
- USE ABOVE FRAMING AT ALL OPENINGS EXCEEDING 1'-0" UNO.
  - REFERENCE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
  - ROOF OPENING FRAMING NOT REQUIRED AT SIDE DISCHARGE ROOF DRAINS. COORDINATE WITH MECHANICAL CONTRACTOR.

'L'	ANGLE 'A'	ANGLE 'B'
UP TO 1'-0"	NONE - SUMP PAN ONLY	NONE - SUMP PAN ONLY
1'-1" TO 4'-6"	L4x4x1/4	L4x4x1/4
4'-7" TO 6'-0"	L4x4x5/16	L4x4x1/4
6'-1" TO 8'-0"	L4x4x3/8	-
8'-1" TO 10'-0"	L6x4x3/8 (LLV)	-



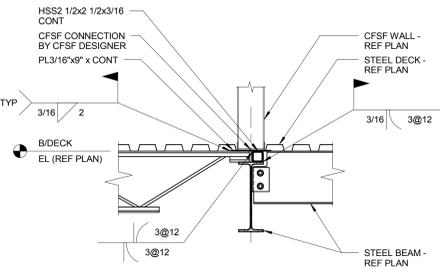
### 9 JOIST MODIFICATION DETAIL

- 1 1/2" = 1'-0"
- NOTES:
- FOR ATTACHMENTS TO JOISTS THAT ARE CONCENTRICALLY LOADED ON THE JOIST, A MAXIMUM OF 100 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. FOR ATTACHMENTS TO JOIST THAT ARE ECCENTRICALLY LOADED, A MAXIMUM OF 25 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. MULTIPLE ATTACHMENTS ARE ALLOWED IN EACH CHORD PANEL AS LONG AS THE SUM OF THE LOADS DO NOT EXCEED THE MAXIMUM LOAD INDICATED.
  - FOR LOADS BETWEEN 100 POUNDS AND 200 POUNDS, ADDITIONAL ANGLES ARE REQUIRED AND JOIST MUST BE CONCENTRICALLY LOADED.
  - FOR LOADING CONDITIONS IN NOTES 1 AND 2 ABOVE, TOTAL SUM OF LOADS SHALL NOT EXCEED 200 LBS FOR AN 8 FOOT SEGMENT OF JOIST. FOR LOADS GREATER THAN 200 POUNDS AND NOT NOTED ON THE DRAWINGS, CONTACT ENGINEER PRIOR TO INSTALLATION.
  - NO LOADS SHALL BE SUPPORTED FROM JOIST BRIDGING.



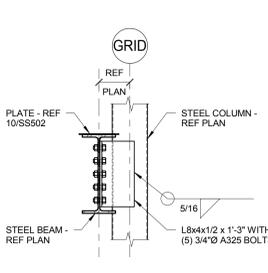
### 10 FRAMING DETAIL

- 3/4" = 1'-0"
- NOTES:
- PERPENDICULAR FRAMING NOT SHOWN FOR CLARITY.



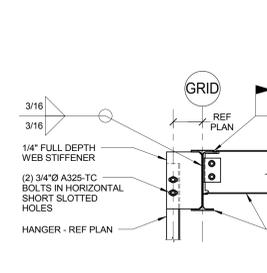
### 11 FRAMING DETAIL

- 3/4" = 1'-0"
- NOTES:
- PERPENDICULAR FRAMING NOT SHOWN FOR CLARITY.



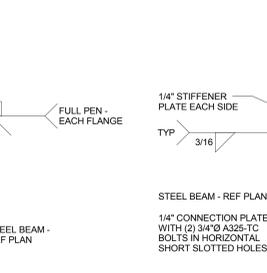
### 12 FRAMING DETAIL

- 3/4" = 1'-0"
- NOTES:
- PERPENDICULAR FRAMING NOT SHOWN FOR CLARITY.



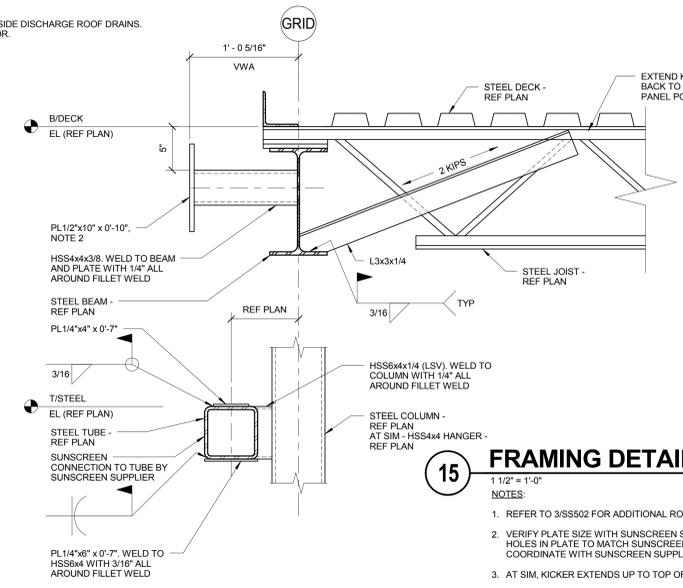
### 13 FRAMING DETAIL

- 3/4" = 1'-0"
- NOTES:
- PROVIDE BACKING AT ALL FULL PEN WELDS.
  - ADDITIONAL ROOF FRAMING NOT SHOWN. REFER TO 7/SS501.



### 14 FRAMING DETAIL

- 3/4" = 1'-0"
- NOTES:
- PERPENDICULAR FRAMING NOT SHOWN FOR CLARITY.



### 15 FRAMING DETAIL

- 1 1/2" = 1'-0"
- NOTES:
- REFER TO 3/SS502 FOR ADDITIONAL ROOF FRAMING NOTES.
  - VERIFY PLATE SIZE WITH SUNSCREEN SUPPLIER. PROVIDE BOLT HOLES IN PLATE TO MATCH SUNSCREEN BOLT SIZE AND PATTERN. COORDINATE WITH SUNSCREEN SUPPLIER.
  - AT SIM, KICKER EXTENDS UP TO TOP OF ADJACENT PARALLEL JOIST.
  - JOIST MANUFACTURER TO DESIGN JOIST FOR LOADS INDICATED.

Revisions:	Date:

**CONSULTANTS:**

HEALTHCARE PLANNERS: VOA ARCHITECTS  
 MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS  
 CIVIL ENGINEER: JD ENGINEERING  
 COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT  
 INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.

**ARCHITECT:**

**MICHAEL ROTH & ASSOCIATES, ARCHITECTS & PLANNERS, INC.**  
 200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112

Drawing Title: **FRAMING DETAILS**

Approved: Project Director

Project Title: **RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER**

Location: **BONHAM, TEXAS**

Date: **APRIL 13, 2015**

Checked: **TODBAR**

Drawn: **CAD**

Project Number: **549-130**

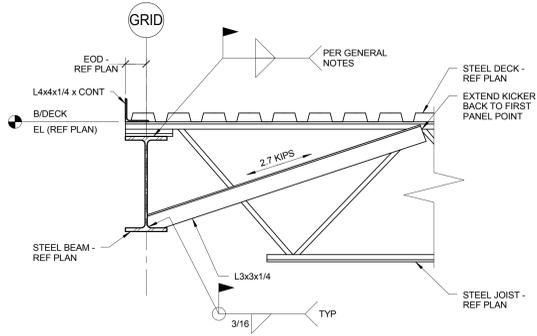
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Drawing Number: **SS502**

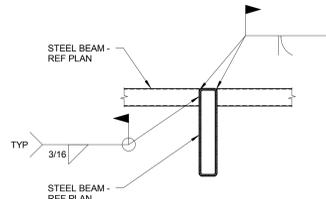
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**Office of Facilities Management**

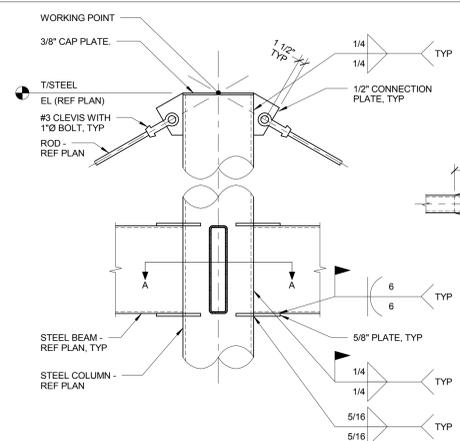
Department of Veterans Affairs



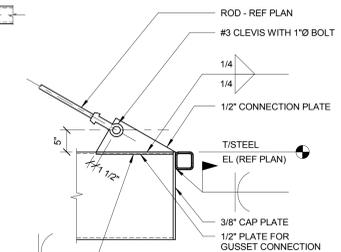
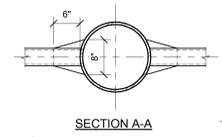
**1 FRAMING DETAIL**  
 1" = 1'-0"  
 NOTES:  
 1. JOIST MANUFACTURER TO DESIGN JOIST FOR LOADS INDICATED.



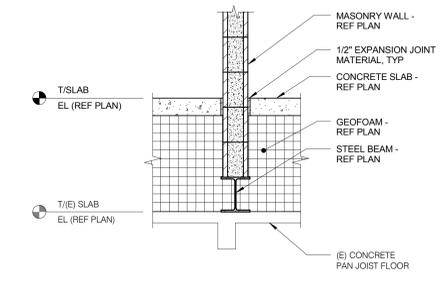
**2 FRAMING DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. WELD TO BE WATERTIGHT.



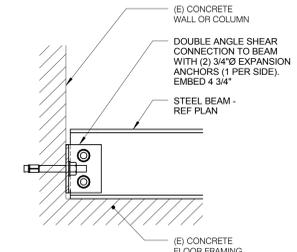
**3 FRAMING DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. WELDS TO BE WATERTIGHT.



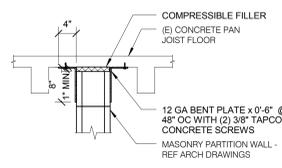
**4 FRAMING DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. WELDS TO BE WATERTIGHT.



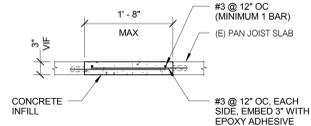
**5 FRAMING DETAIL**  
 3/4" = 1'-0"



**6 FRAMING DETAIL**  
 1 1/2" = 1'-0"  
 NOTES:  
 1. CMU WALL ON TOP OF BEAM NOT SHOWN FOR CLARITY.



**7 MASONRY PARTITION WALL DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. PROVIDE THE BENT PLATE CLIP ANGLES ON ALL INTERIOR NON-LOAD BEARING MASONRY PARTITION WALLS. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL MASONRY PARTITION WALLS.



**8 INFILL DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. VERIFY SIZE, QUANTITY AND LOCATION OF INFILL WITH MEP CONTRACTORS.

Revisions:	Date:

**CONSULTANTS:**  
 HEALTHCARE PLANNERS: VOA ARCHITECTS  
 MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS  
 CIVIL ENGINEER: JD ENGINEERING  
 COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT  
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**ARCHITECT:**  
 **MICHAEL ROTH & ASSOCIATES, ARCHITECTS & PLANNERS, INC.**  
 200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112

Drawing Title  
**FRAMING DETAILS**  
 Approved: Project Director

Project Title  
**RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER**  
 Location  
**BONHAM, TEXAS**  
 Date  
**APRIL 13, 2015**  
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**TODBAR**  
 Drawn  
**CAD**  
 Project Number  
**549-130**  
 Building Number  
**1**  
 Drawing Number  
**SS503**  
 Dwg. 58 of 142

**Office of Facilities Management**  
 **Department of Veterans Affairs**