

GENERAL STRUCTURAL NOTES

- I. BUILDING CODE:
 - A. 2012 INTERNATIONAL BUILDING CODE (IBC) IN CONJUNCTION WITH MINNESOTA STATE BUILDING CODE
- II. DESIGN LOADS:
 - A. EQUIPMENT BOOMS: WEIGHT AND MOMENT AS PROVIDED BY EQUIPMENT SUPPLIER
 - B. INTERSTITIAL FLOOR: DEAD LOAD (SUPERIMPOSED)..... 15 PSF
LIVE LOAD (PER ORIGINAL DESIGN DRAWINGS)..... 25 PSF
- III. REINFORCED GYPSUM CONCRETE:
 - A. DESIGN CODE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI-318), LATEST ADOPTION
 - B. CONCRETE MIX SHALL MEET THE REQUIREMENTS OF ASTM C 317, CLASS A.
 - C. MATERIAL STRENGTHS:
 - 1. CONCRETE COMPRESSIVE STRENGTH (f_c) AT 28 DAYS:..... ASTM C 317-500 PSI
 - 2. REINFORCING MESH:..... ASTM A82
 - 3. SUBPURLINS..... ASTM A36
 - D. NOTES:
 - 1. PLACEMENT OF CONCRETE AND REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI AND CRSI STANDARDS.
 - 2. PLACE MESH WITH MAIN LONGITUDINAL WIRES PERPENDICULAR TO SUBPURLINS.
 - 3. PROVIDE MESH LAPS NOT LESS THAN 4".
- IV. STRUCTURAL STEEL:
 - A. DESIGN CODE: SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (AISC), LATEST ADOPTION
 - B. MATERIAL SPECIFICATIONS (UNLESS NOTED OTHERWISE):
 - 1. STRUCTURAL STEEL ROLLED SHAPES, PLATES & BARS..... ASTM A36
 - 2. STRUCTURAL STEEL TUBING (HOLLOW STRUCTURAL SECTIONS)..... ASTM A500, GR. B
 - 3. CONNECTION BOLTS..... ASTM A325
 - 4. WELDS (E70XX ELECTRODES)..... ASTM A233
 - 5. EXPANSION ANCHORS..... KWIK OR EQUAL ADHESIVE ANCHOR
 - 6. NON-SHRINK GROUT (7,000 PSI)..... ASTM C1107, GR. A
 - 7. MODULAR CHANNEL UNITS..... UNISTRUT (NO SUBSTITUTES)
 - C. NOTES:
 - 1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO THE SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), LATEST ADOPTION
 - 2. ALL FRAMING, ANCHOR BOLTS, BASE PLATES, ETC. HAVE BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTERED DURING STEEL ERECTION AND CONSTRUCTION. CONFORMANCE TO OR DEVIATION FROM ALLOWABLE CAPACITIES DURING ERECTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR (SEE GENERAL NOTES).
 - 3. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.1. UNLESS OTHERWISE NOTED, PROVIDE CONTINUOUS FILLET WELDS PER AISC REQUIREMENTS MEETING MINIMUM THICKNESSES ALLOWED PER THICKNESS OF MATERIAL WELDED. ALL FILLER MATERIAL SHALL HAVE A MINIMUM YIELD STRENGTH OF 58 KSI.
 - 4. HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED WITHOUT PERMISSION OF THE STRUCTURAL ENGINEER OF RECORD.
 - 5. STRUCTURAL STEEL SHALL RECEIVE A SHOP COAT OF ZINC RICH PRIMER. DAMAGE DURING TRANSPORTING, ERECTING AND FIELD WELDING PROCESSES SHALL BE REPAIRED TO MATCH THE SHOP APPLIED COATING.
- V. GENERAL NOTES:
 - A. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS AND MANNER OF CONSTRUCTION AND FOR THE SAFETY OF PERSONS AND PROPERTY. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
 - B. THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. DURING ERECTION OF THE WORK, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR TEMPORARY GUYING, SHORING, BRACING, FORMING, ETC. TO HOLD THE STRUCTURE IN PROPER ALIGNMENT AND TO WITHSTAND ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING LATERAL LOADS, TEMPERATURE DIFFERENTIALS, STOCKPILES OF MATERIAL, AND EQUIPMENT. SUCH MEASURES SHALL BE LEFT IN PLACE AS LONG AS REQUIRED FOR SAFETY AND UNTIL ALL FRAMING AND CONNECTIONS INCLUDING ROOF DECK ARE IN PLACE. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF SUCH TEMPORARY MEASURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - C. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO APPROVAL BY THE ENGINEER.
 - D. EXISTING CONSTRUCTION: WHEREVER APPLICABLE, PRIOR TO FABRICATION AND CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS, DIMENSIONS, DETAILS OF EXISTING STRUCTURAL CONNECTIONS AND OTHER CONDITIONS WHERE THEY AFFECT THIS CONSTRUCTION. NOTIFY THE ENGINEER IF THERE ARE ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS. OBTAIN PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER BEFORE MAKING ANY MODIFICATIONS TO THE EXISTING STRUCTURE NOT INDICATED ON THE CONTRACT DOCUMENTS. BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING FACILITY, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING STRUCTURE AND OTHER CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN. CONSIDER ALL HAZARDS DUE TO WELDING WITHIN THE EXISTING FACILITY, INCLUDING FIRE HAZARD, TOXIC SMOKE HAZARD AND LIQUEFACTION OF MEMBERS UNDER LOAD. VERIFY THE PRESENCE OF TOXIC MATERIALS PRIOR TO BIDDING THE WORK.
 - E. ARCHITECTURAL DRAWINGS, MECHANICAL AND ELECTRICAL DRAWINGS, FIRE PROTECTION, EQUIPMENT DRAWINGS AND RELATED ITEMS ARE BY OTHERS.
 - F. CONTRACTOR AND SUBCONTRACTORS SHALL THOROUGHLY REVIEW ALL DRAWINGS AND SPECIFICATIONS PRIOR TO SUBMITTING BIDS. MISCELLANEOUS FASTENERS, CLIPS, ETC. THAT ARE NOT DETAILED ON THE DRAWINGS BUT ARE PART OF THE REQUIREMENTS FOR FULL INSTALLATION OF ALL STRUCTURAL SYSTEMS ARE TO BE PART OF THE BID. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO THE BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE BID.
 - G. ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE CONSTRUCTION DRAWINGS AND/OR SPECIFICATIONS AND/OR EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK. DURING THE BIDDING STAGE, CONTRACTOR SHALL REQUEST AN INTERPRETATION OF CONFLICTS PRIOR TO BIDDING. IF NO REQUEST IS MADE, BOTH PROVISIONS SHALL BE PRESUMED TO BE INCLUDED IN THE BID AND THE ARCHITECT/ENGINEER SHALL DETERMINE WHICH PROVISION GOVERNS, AND THE CONTRACTOR SHALL PERFORM THE WORK AT NO ADDITIONAL COST TO THE OWNER.
 - H. CONTRACTOR SHALL REVIEW, STAMP, SIGN AND DATE ALL SHOP DRAWINGS PRIOR TO FORWARDING TO ARCHITECT/ENGINEER. THE ENGINEER'S REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC.
 - I. SUBMIT SHOP DRAWINGS IN ELECTRONIC FORM ONLY. IN NO CASE SHALL REPRODUCTION OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS. AS A MINIMUM, SUBMIT THE FOLLOWING ITEMS FOR REVIEW:
 - 1. GYPSUM CONCRETE MIX DESIGN.
 - 2. STRUCTURAL STEEL SHOP DRAWINGS (INCLUDING PURLINS, BULB TEES, AND CLOSURE PLATES).
 OTHER SUBMITTALS MAY BE REQUIRED PER THE SPECIAL INSPECTIONS OR SEPARATE NOTES CONTAINED HEREIN.
 - J. COORDINATION WITH OTHER TRADES: THE CONTRACTOR SHALL COORDINATE ALL DEPRESSIONS, DIMENSIONS, ELEVATIONS, SLEEVES, CHASES, HANGERS, OPENINGS, INSERTS, ANCHORS, EQUIPMENT SUPPORTS, AND DETAILS WITH THE ENTIRE CONTRACT DOCUMENT PACKAGE, INCLUDING SPECIFICATIONS AND ARCHITECTURAL, STRUCTURAL, MECHANICAL AND

- ELECTRICAL DRAWINGS, FOR CONCRETE AND MASONRY CONSTRUCTION THE INSERTS, EMBEDDED PLATES, ETC. SHALL NOT INTERFERE WITH REINFORCEMENT LOCATIONS.
- VI. SPECIAL INSPECTION:
 - A. CLEARLY INDICATE COMPLIANCE OR NON-COMPLIANCE
 - B. SPECIAL INSPECTION IS REQUIRED IN ACCORDANCE WITH IBC SECTION 1701 THE FOLLOWING PORTIONS OF CONSTRUCTION:
 - 1. GYPSUM CONCRETE:
 - a. TEST PANEL.
 - b. MATERIAL TESTING COMPRESSIVE STRENGTH CURED DENSITY.
 - 2. STRUCTURAL WELDING:
 - a. PERIODIC INSPECTION.
 - b. VERIFICATION OF WELDER QUALIFICATIONS, WELDING PROCEDURES AND MATERIALS.
 - c. VERIFICATION OF MATERIALS.
 - 3. EXPANSION AND ADHESIVE ANCHORS:
 - a. INSTALLATION REQUIREMENTS FOR ADHESIVE ANCHORS:
 - i. HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS
 - ii. INSTALLATION SHALL BE PERFORMED BY PERSONNEL CERTIFIED IN ACCORDANCE WITH ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.
 - b. INSTALLATION SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION BY AN INSPECTOR SPECIALLY APPROVED BY THE BUILDING OFFICIAL.
 - c. ALL OTHER ORIENTATIONS
 - d. INSTALLATION SHALL BE PERFORMED BY PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS. TRAINING SHALL INCLUDE PRODUCT-SPECIFIC TRAINING OFFERED BY THE ADHESIVE MANUFACTURER AND SHALL BE INSPECTED IN ACCORDANCE WITH THE ICC REPORT.
 - C. REPORTS FOR THE ABOVE SHALL BE SUBMITTED TO THE ENGINEER. ALL REPORTS SHALL CLEARLY INDICATE COMPLIANCE OR NON-COMPLIANCE.
 - D. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR AT LEAST 48 HOURS IN ADVANCE FOR WORK THAT WILL REQUIRE INSPECTION OR TESTING.
 - E. UPON COMPLETION OF EACH PHASE OF THE WORK, THE SPECIAL INSPECTOR SHALL SUBMIT A LETTER STATING COMPLIANCE WITH AND VARIANCES FROM THE PROJECT REQUIREMENTS (IF ANY).
 - F. UPON COMPLETION OF THE PROJECT, THE SPECIAL INSPECTOR SHALL SUBMIT A LETTER STATING COMPLIANCE WITH THE PROJECT REQUIREMENTS INCLUDING MEASURES TAKEN TO CORRECT PREVIOUSLY IDENTIFIED NON-COMPLYING ITEMS.

REVISIONS	DATE

GENERAL NOTES

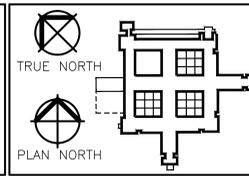
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DATE: 03/30/15
SIGNATURE: KEITH W. JACOBSON
PRINTED NAME: KEITH W. JACOBSON
EXPIRES: 03/30/18

Drawing Scale: SEE DRAWING
Plot Scale: 1/2" = 1'-0"

Drawing Title: STRUCTURAL NOTES

Approved: Division Chief
Approved: Service Director

Project Title: RENOVATE TO CREATE HYBRID OR - PHASE TWO

Location: V.A. MEDICAL CENTER ONE VETERANS DRIVE MINNEAPOLIS, MN 55417

Date: 03/30/15

Checked: KWJ
Drawn: RPD

Project No.: VA Proj # 618-CS1-100- BMBR Proj # 3.201215100

Building Number: 70

DRAWING NO.: 1305-S0

Dwg. 4 of ??

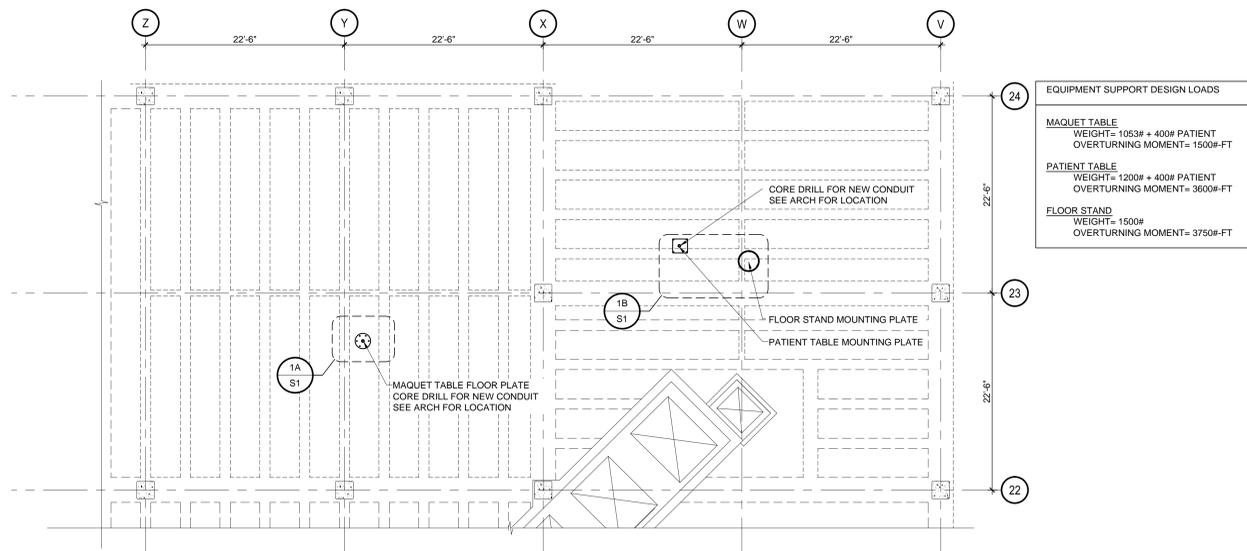
Office of Facilities Management



Department of Veterans Affairs

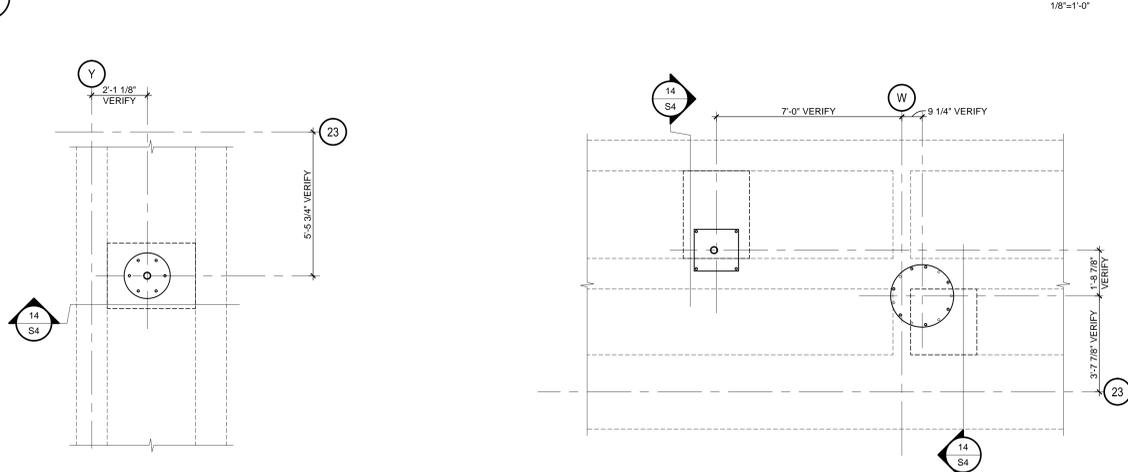
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- NOTES:
- CONTRACTOR TO COORDINATE ALL DRILLED AND CORE DRILLED OPENINGS WITH EXIST CONDITIONS.
 - DO NOT CORE THROUGH CONCRETE JOISTS. ADVISE ARCHITECT OF CONFLICTS.

1 PARTIAL SECOND FLOOR FRAMING PLAN

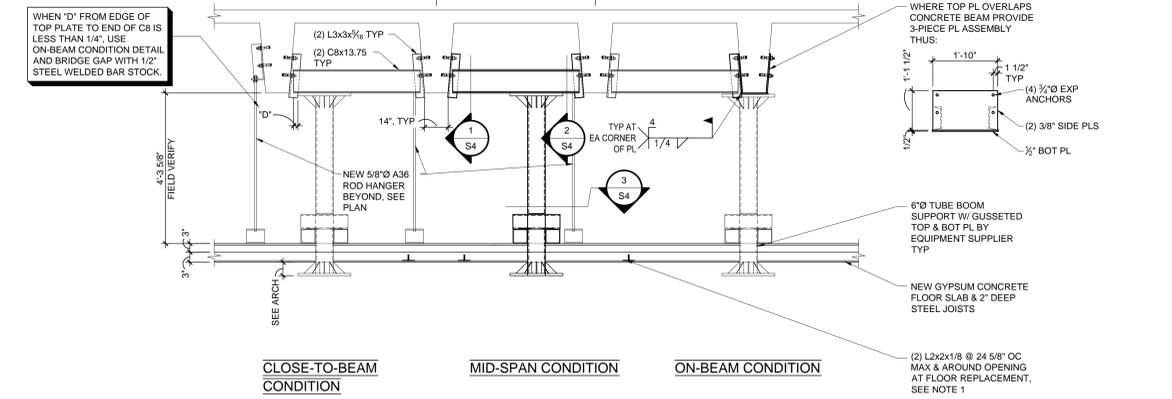


1A ENLARGED ANCHOR BOLT LAYOUT PLAN

- NOTES:
- CORE DRILL FOR CONDUIT PRIOR TO POURING NEW BEAM.
 - SEE 12/S4 FOR ANCHORS.

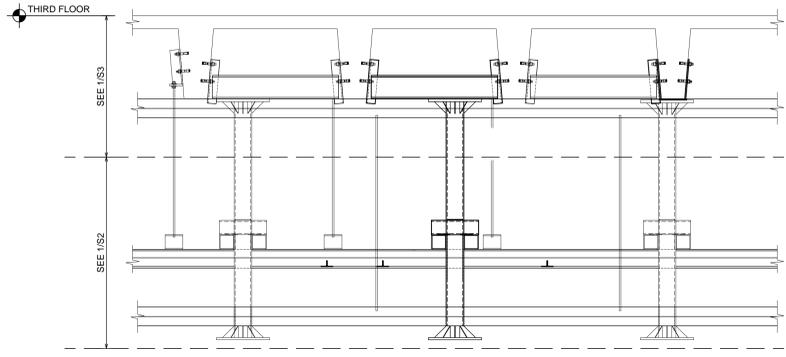
1B ENLARGED ANCHOR BOLT LAYOUT PLAN

- NOTES:
- CORE DRILL FOR CONDUIT PRIOR TO POURING NEW BEAM.
 - SEE 12/S4 FOR ANCHORS.

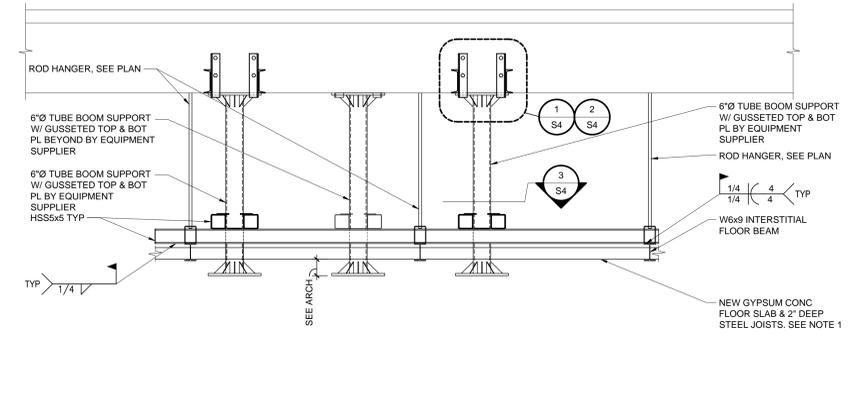


3 SECTION

- NOTES:
- SALVAGE AND REUSE EXISTING 2" BULB TEES WHERE POSSIBLE. USE (2) L2x2 TO REPLACE OR SUPPLEMENT TEES AS REQUIRED.
 - FIELD VERIFY LOCATIONS OF TOP OF 6" MAST RELATED TO CONCRETE BEAMS AND SELECT CONNECTION DETAIL TO ACCOMMODATE.



2 LEVEL KEY PLAN



4 SECTION

- NOTES:
- SALVAGE AND REUSE EXISTING 2" BULB TEES WHERE POSSIBLE. USE (2) L2x2 AS REQUIRED.

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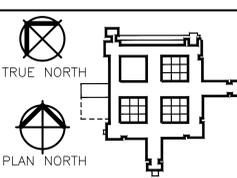
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SIGNATURE: KEITH W. JACOBSON
DATE: 03/25/12
PRINTED NAME: KEITH W. JACOBSON
REG. NO.: 19861

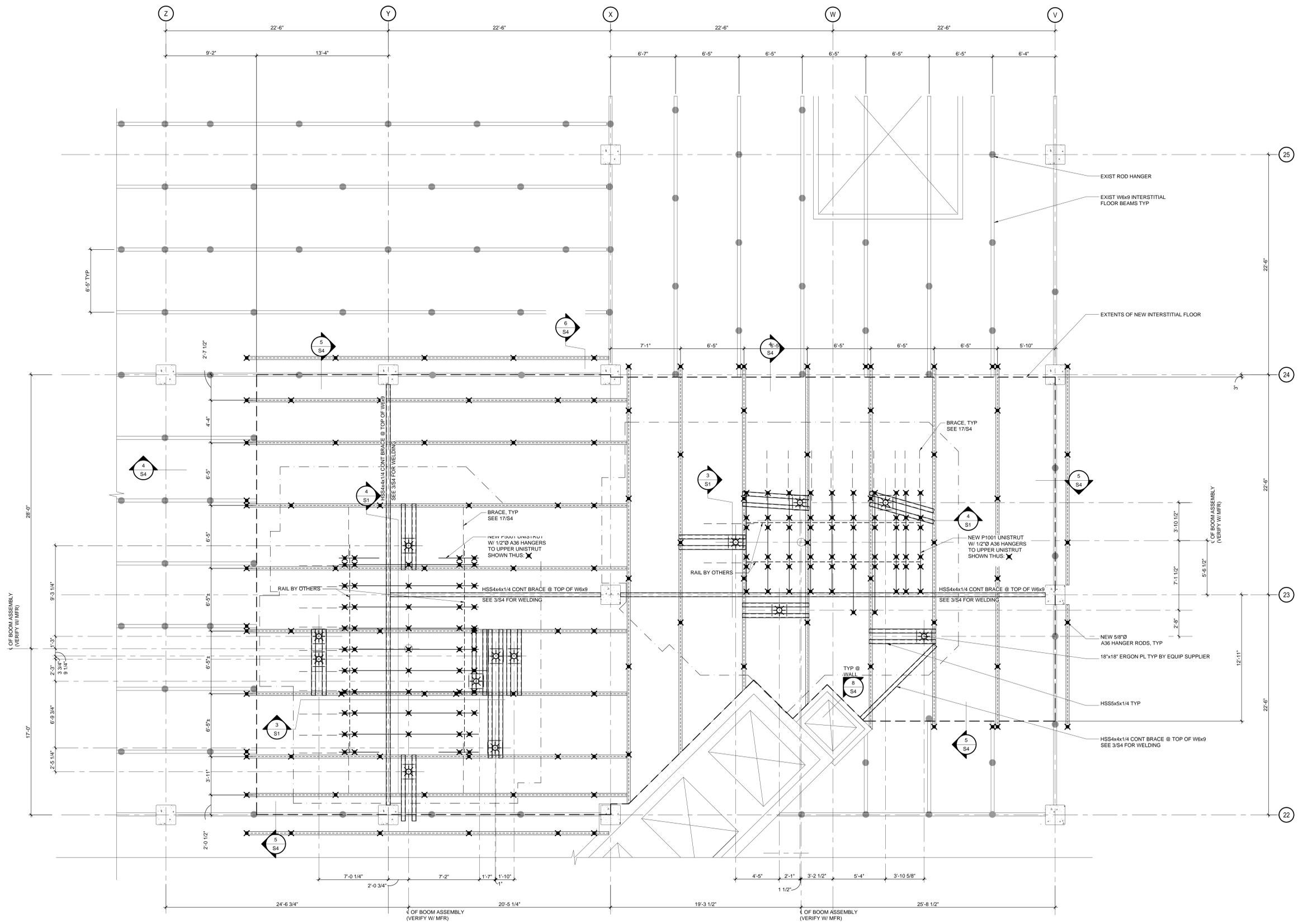
Drawing Title PARTIAL PLANS AND SECTIONS
Approved: Division Chief
Approved: Service Director

Project Title RENOVATE TO CREATE HYBRID OR - PHASE TWO
Location V.A. MEDICAL CENTER ONE VETERANS DRIVE MINNEAPOLIS, MN 55417
Date 03/31/15
Checked KWJ
Drawn RPD

Project No. VA Proj # 618-CS1-100- BWBR Proj # 3.201215100
Building Number 70
DRAWING NO. 1305-S1
Dwg. 5 of ??

Office of Facilities Management

Department of Veterans Affairs



NOTES:
 1. CONTRACTOR TO VERIFY ALL EXISTING ELEVATIONS, DIMENSIONS, AND CONDITIONS.

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1 PARTIAL SECOND LEVEL INTERSTITIAL FRAMING PLAN
 S2

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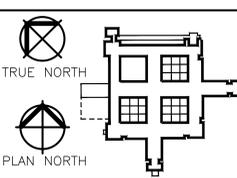
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SIGNATURE: KEITH W. JACOBSON
 DATE: 03/25/15
 LICENSE NO.: 19861
 EXPIRES: 03/25/17

Drawing Title
PARTIAL SECOND LEVEL INTERSTITIAL FRAMING PLAN

Approved: Division Chief
 Approved: Service Director

Drawing Scale
 SEE DRAWING

Plot Scale
 1/2" = 1'-0"

Project Title
RENOVATE TO CREATE HYBRID OR - PHASE TWO

Location
 V.A. MEDICAL CENTER
 ONE VETERANS DRIVE
 MINNEAPOLIS, MN 55417

Date
 03/31/15

Checked
 KWJ

Drawn
 RPD

Project No.
 VA Proj # 618-CS1-100-
 BWBR Proj # 320215100

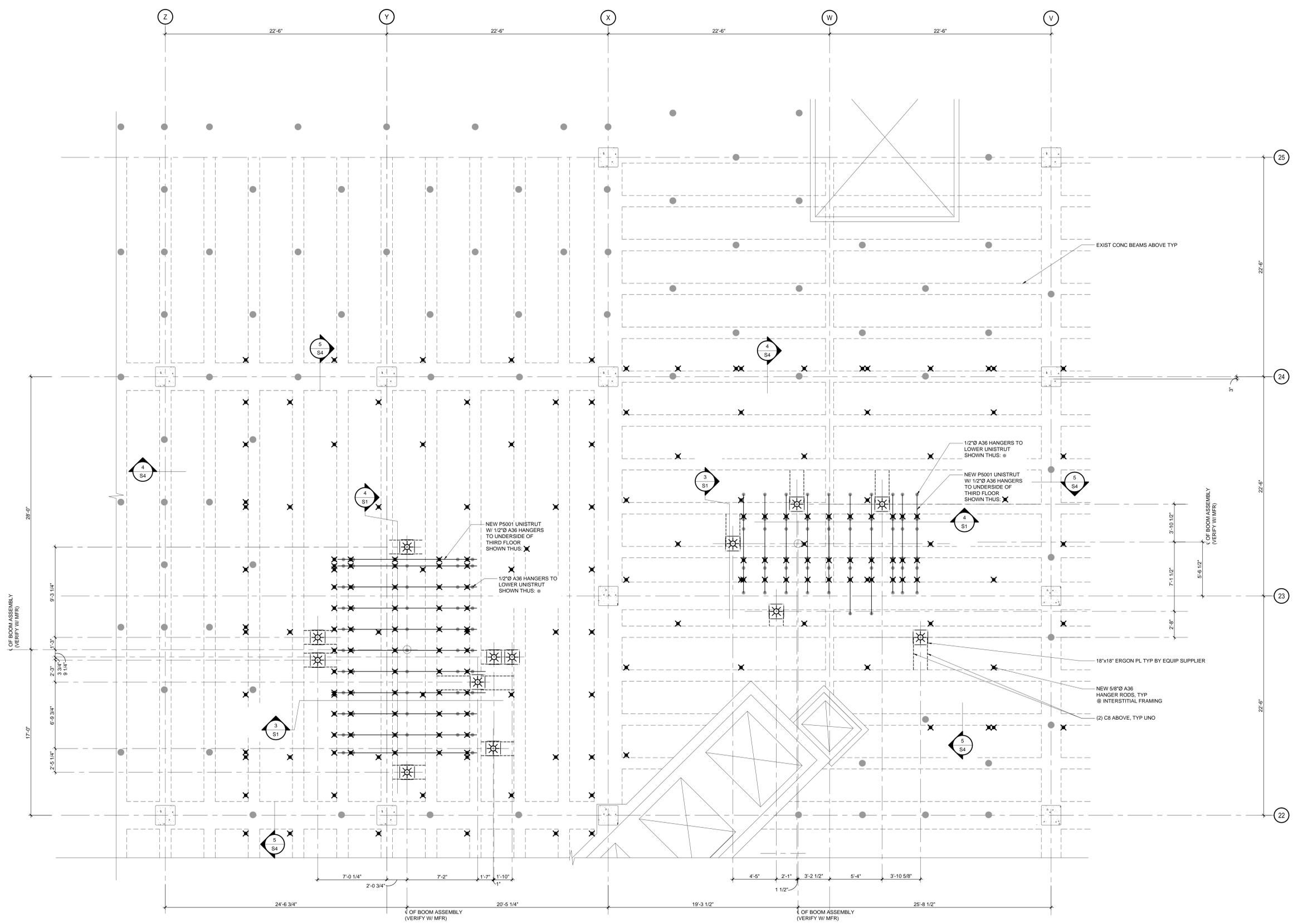
Building Number
 70

DRAWING NO.
 1305-S2

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Office of
 Facilities
 Management

Department of
 Veterans Affairs



1 PARTIAL UNDERSIDE OF THIRD FLOOR FRAMING PLAN
S3

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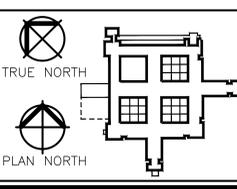
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SIGNATURE: Keith W. Jacobson
DATE: 03/25/15
TITEL: ENGINEER
REG. NO.: 1981

Drawing Scale: SEE DRAWING
Plot Scale: 1/2" = 1'-0"

Drawing Title: PARTIAL UNDERSIDE OF THIRD FLOOR FRAMING PLAN

Approved: Division Chief
Approved: Service Director

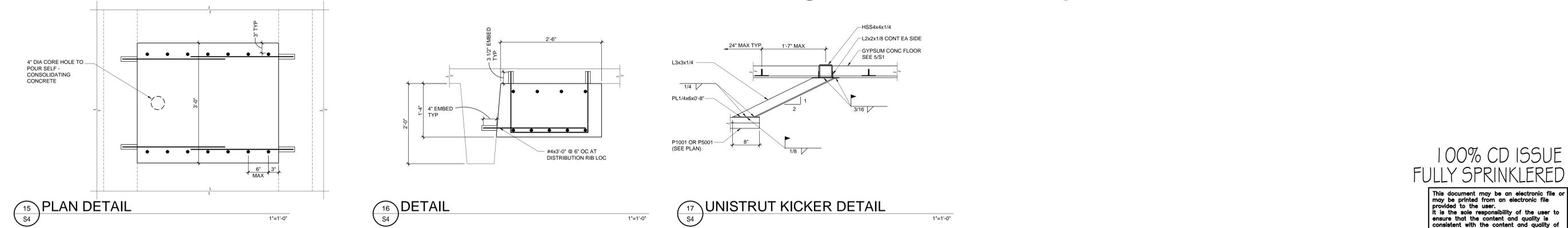
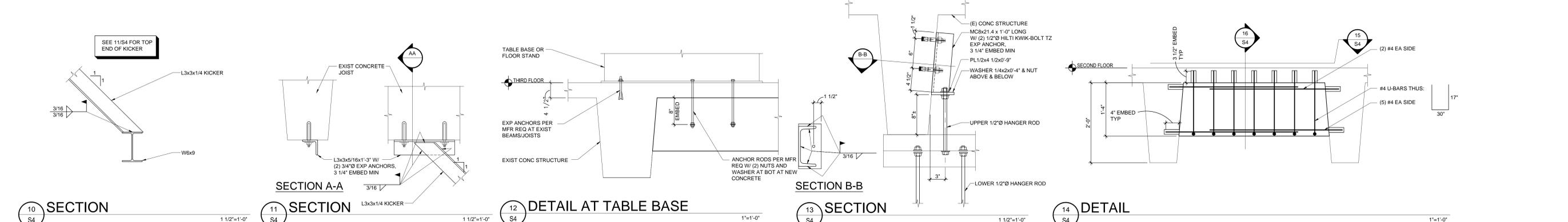
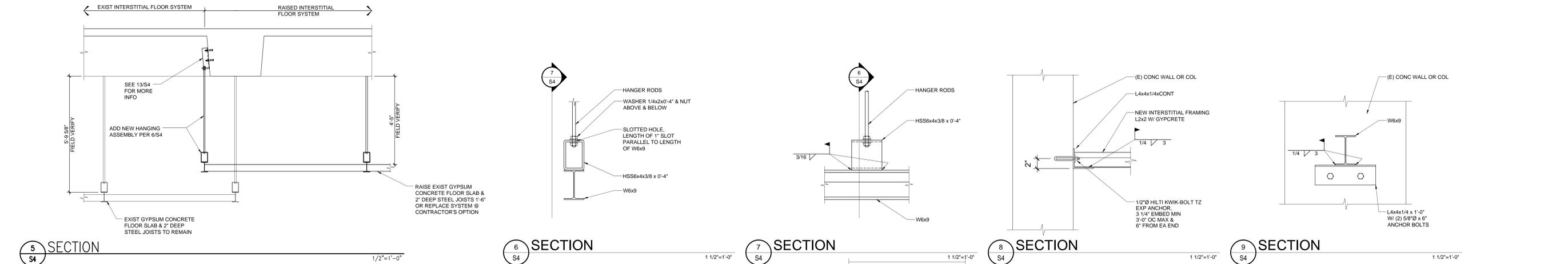
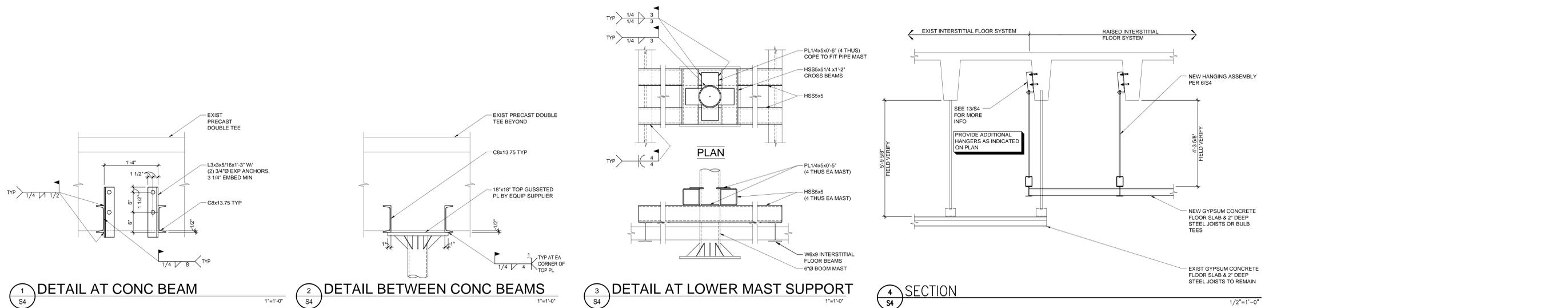
Project Title: RENOVATE TO CREATE HYBRID OR - PHASE TWO

Location: V.A. MEDICAL CENTER
ONE VETERANS DRIVE
MINNEAPOLIS, MN 55417

Date: 03/31/15
Checked: KWJ
Drawn: RPD

Project No.: VA Proj # 618-CS1-100
BWBR Proj # 320125100
Building Number: 70
DRAWING NO.: 1305-S3
Dwg. 5 of ??

Office of Facilities Management
Department of Veterans Affairs



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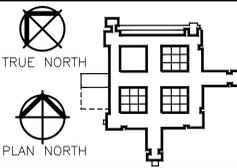
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REVISIONS	DATE

GENERAL NOTES:

GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS. WHERE VARIATIONS ARE FOUND TO OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS. ANY AND ALL CUTTING OF CONCRETE FLOORS, WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. CORE DRILLING THROUGH CONCRETE WALLS, FLOORS OR STRUCTURE FOR PIPING OR CONDUIT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE; FIRESTOPPING OF THESE OPENING SHALL BE DONE BY THE RESPECTIVE SUBCONTRACTOR. REMOVAL OF DEBRIS RESULTING FROM DEMOLITION, CUTTING, AND/OR DRILLING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED BY THE VARIOUS SUBCONTRACTORS.



HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE: 03/25/15
SIGNATURE: KEITH W. JACOBSON
PRINTED NAME: KEITH W. JACOBSON
REG. NO.: 19861

Drawing Title: SECTIONS
Approved: Division Chief
Approved: Service Director

Project Title: RENOVATE TO CREATE HYBRID OR - PHASE TWO
Location: V.A. MEDICAL CENTER ONE VETERANS DRIVE MINNEAPOLIS, MN 55417
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Project No.: VA Proj # 618-CS1-100- BWBR Proj # 3201215100
Building Number: 70
DRAWING NO.: 1305-S4
Dwg. 5 of ??

