

GENERAL STRUCTURAL NOTES

- I. BUILDING CODE:
A. 2012 INTERNATIONAL BUILDING CODE (IBC) IN CONJUNCTION WITH MINNESOTA STATE BUILDING CODES.
- II. DESIGN LOADS:
A. EQUIPMENT ROOMS:
B. INTERSTITIAL FLOOR: WEIGHT AND MOMENT AS PROVIDED BY EQUIPMENT SUPPLIER
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 SPECIFICATIONS:
1. REINFORCING COMPRESSIVE STRENGTH (F_c) AT 28 DAYS:..... ASTM C 317-500 PSI
2. CONCRETE MESH:..... ASTM A82
3. SUBFURLINS:..... 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 SUBFURLINS.
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
WELDS (E70XX ELECTRODES)..... ASTM A238
5. EXPANSION ANCHORS..... KWIK OR EQUAL ADHESIVE ANCHOR
6. NON-SHRINK GROUT (7,000 PSI)..... ASTM C1107, GR. A
C. NOTES:
1. MODULAR CHANNEL UNITS..... UNISTRUT (NO SUBSTITUTES)
- 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 DOES NOT ADVISE ON OR 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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS 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 SPECIFICALLY SHOWN, TYPICAL 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 MATERIAL CONNECTIONS AND OTHER CONDITIONS WHICH 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. PRIOR TO 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 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 THAT ALL PROVISIONS SHALL BE PRESUMED TO BE INCLUDED.
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 CONSTRUCTION. 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. 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 DISCUSSION OF THE CONFLICTS IS REQUESTED, THE CONTRACTOR'S OMISSIONS 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 FURNISHING. THE CONTRACTOR SHALL ADVISE THE ENGINEER'S REVIEW OF THE SHOP DRAWINGS 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 SHALL BE SOLELY RESPONSIBLE FOR CORRECTIONS 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 DOCUMENTS 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 REVIEW OF THE 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. 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.
- B. REPORTS FOR THE ABOVE SHALL BE SUBMITTED TO THE ENGINEER. ALL REPORTS SHALL CLEARLY INDICATE COMPLIANCE OR NON-COMPLIANCE.
- C. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR AT LEAST 48 HOURS IN ADVANCE FOR WORK THAT WILL REQUIRE INSPECTION OR TESTING.
- D. 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).
- E. 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

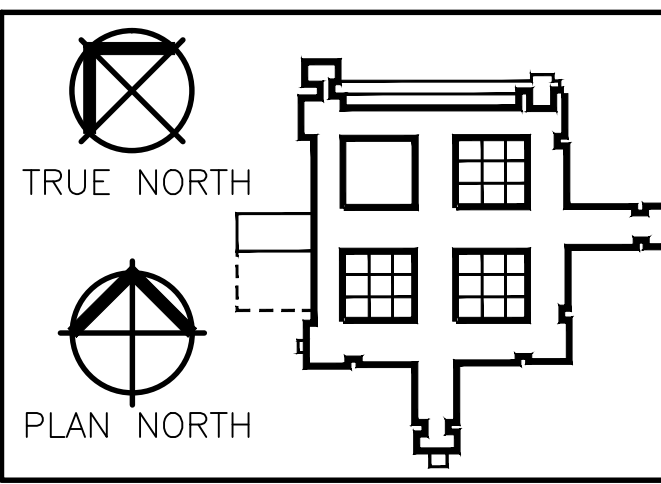
GENERAL

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 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING THE SAME. ANY DELAYING 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. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXISTING PARTITIONS, WALLS, CEILING & FLOORS. THE RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE; FIRESTOPPING OF THESE OPENING SHALL BE DONE BY THE RESPECTIVE TRADE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXISTING PARTITIONS, WALLS, CEILING & FLOORS. THE GENERAL CONTRACTOR, PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR; THIS WILL BE COMPLETED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED.



VAA
Planners and Engineers
2300 Berkshire Lane N, Suite 200
Plymouth, MN 55441



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


SIGNATURE _____ DATE 06/05/12
KEITH W. JACOBSON 19981
PRINTED NAME _____ REG. NO. _____

Drawing Scale	SEE DRAWING
Plot Scale	12" = 1'-0"

Drawing Title

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 554
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Date 03/30/15

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Checked
KWJ

Project No.

BWBR Proj #: 3.201215100
Building Number

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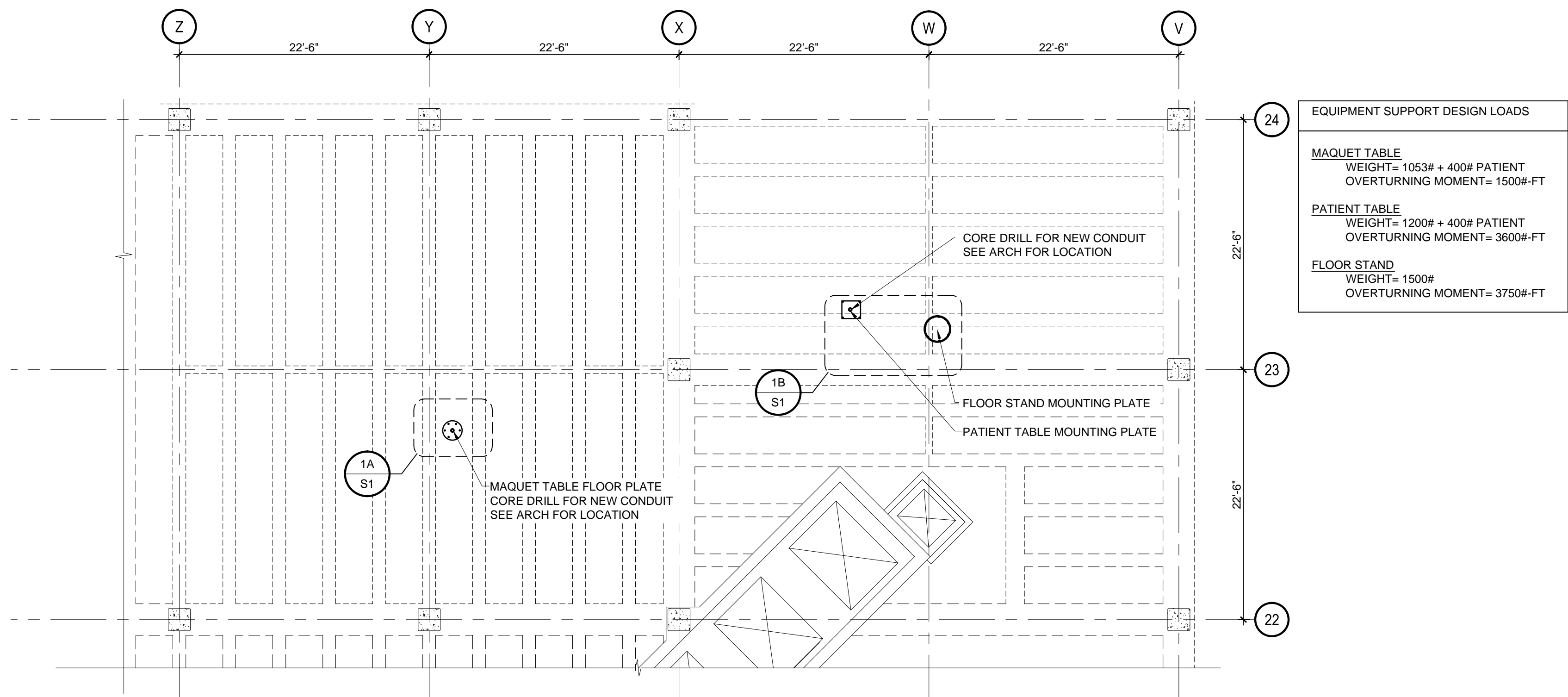
Office of
Facilities
Management



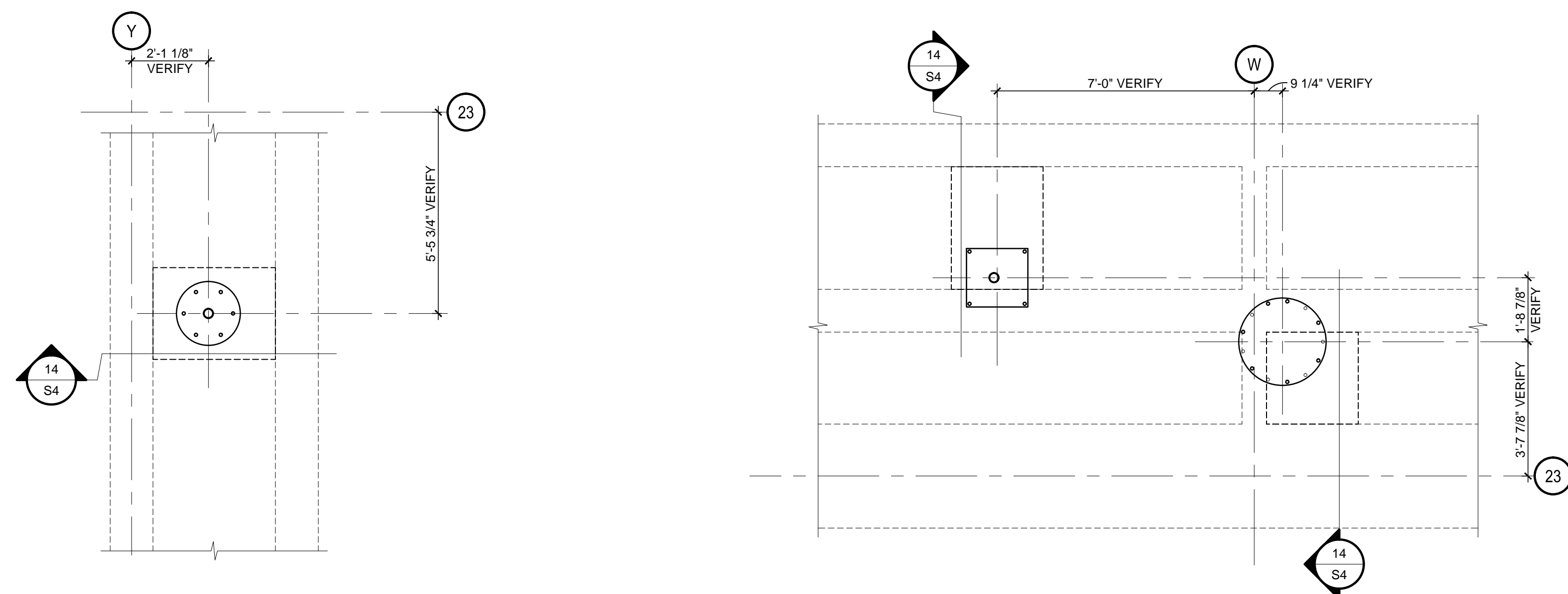
**Department of
Veterans Affairs**

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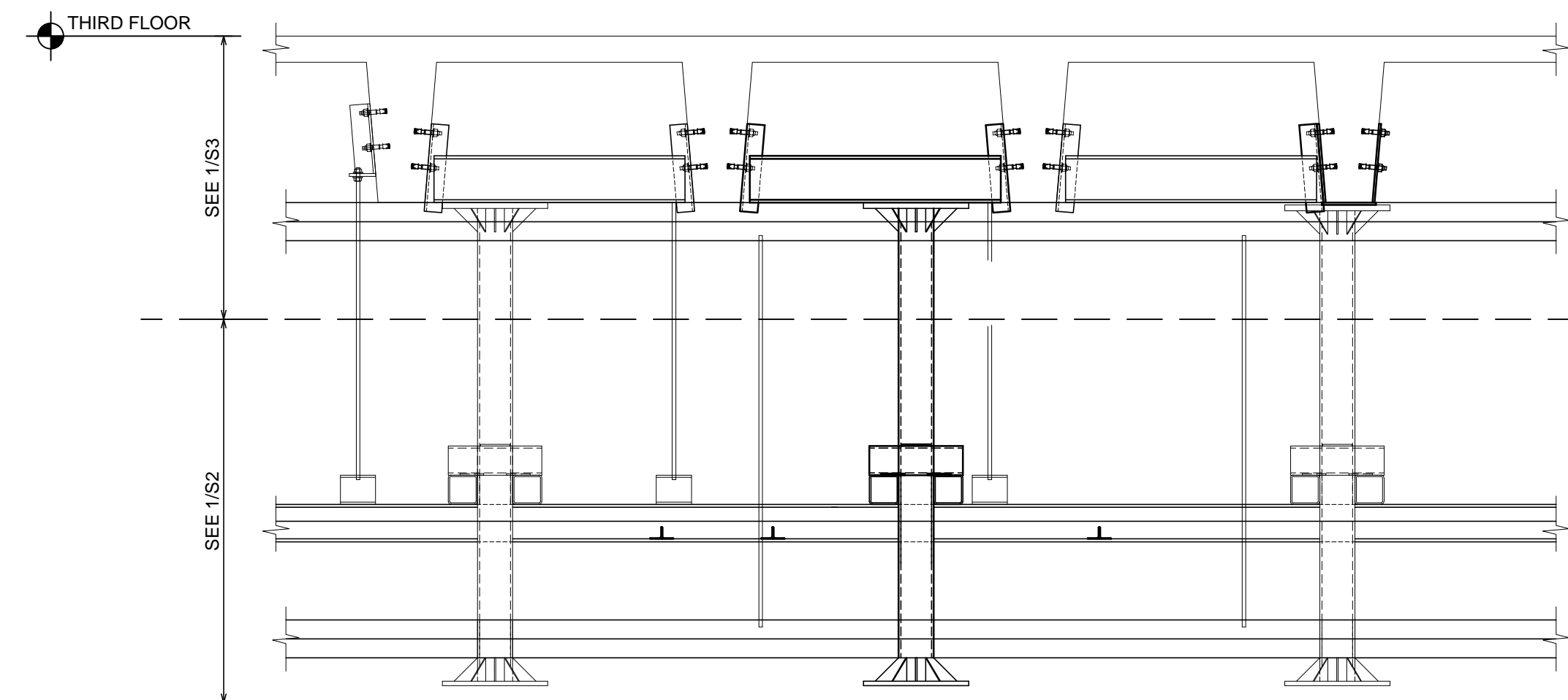


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S1
PARTIAL SECOND FLOOR FRAMING PLAN

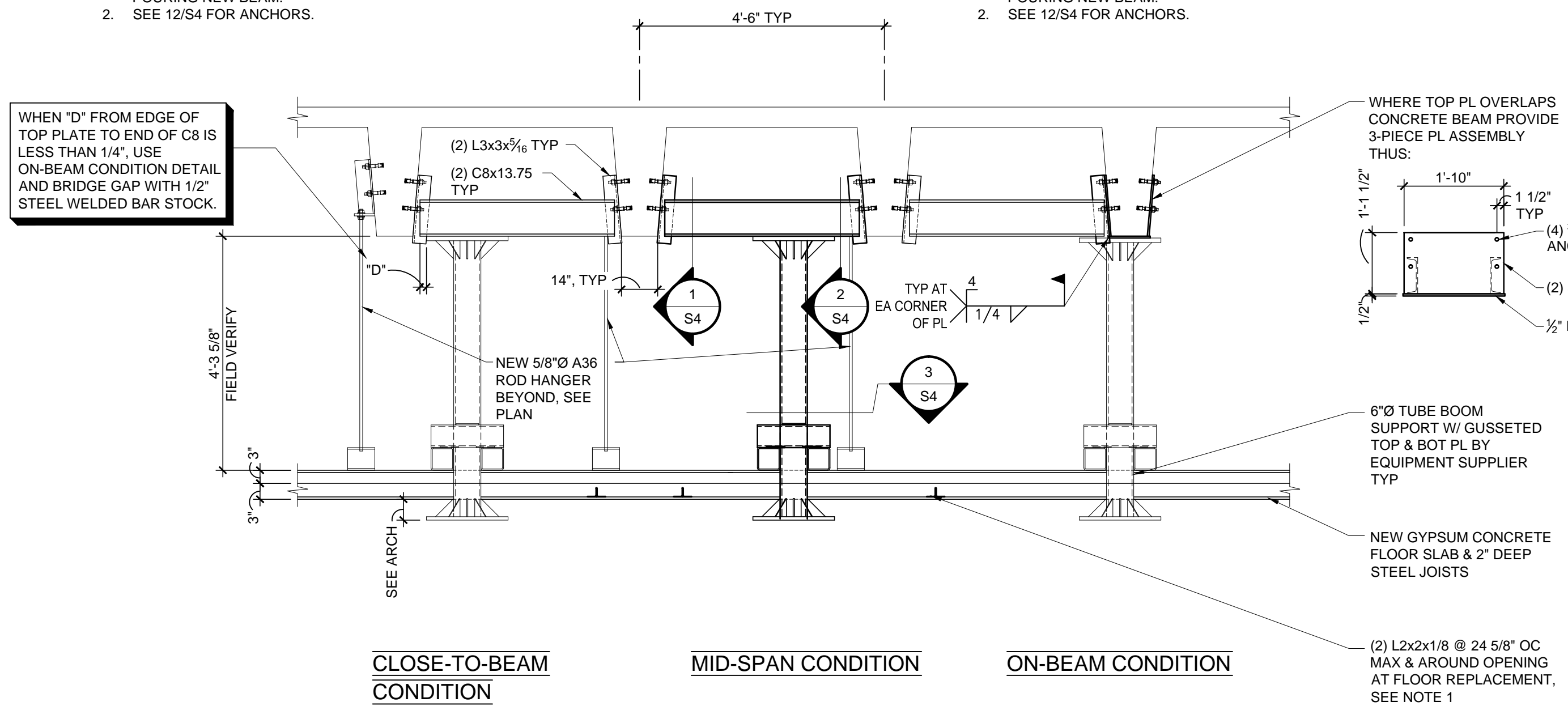


1A
S1
ENLARGED ANCHOR BOLT LAYOUT PLAN

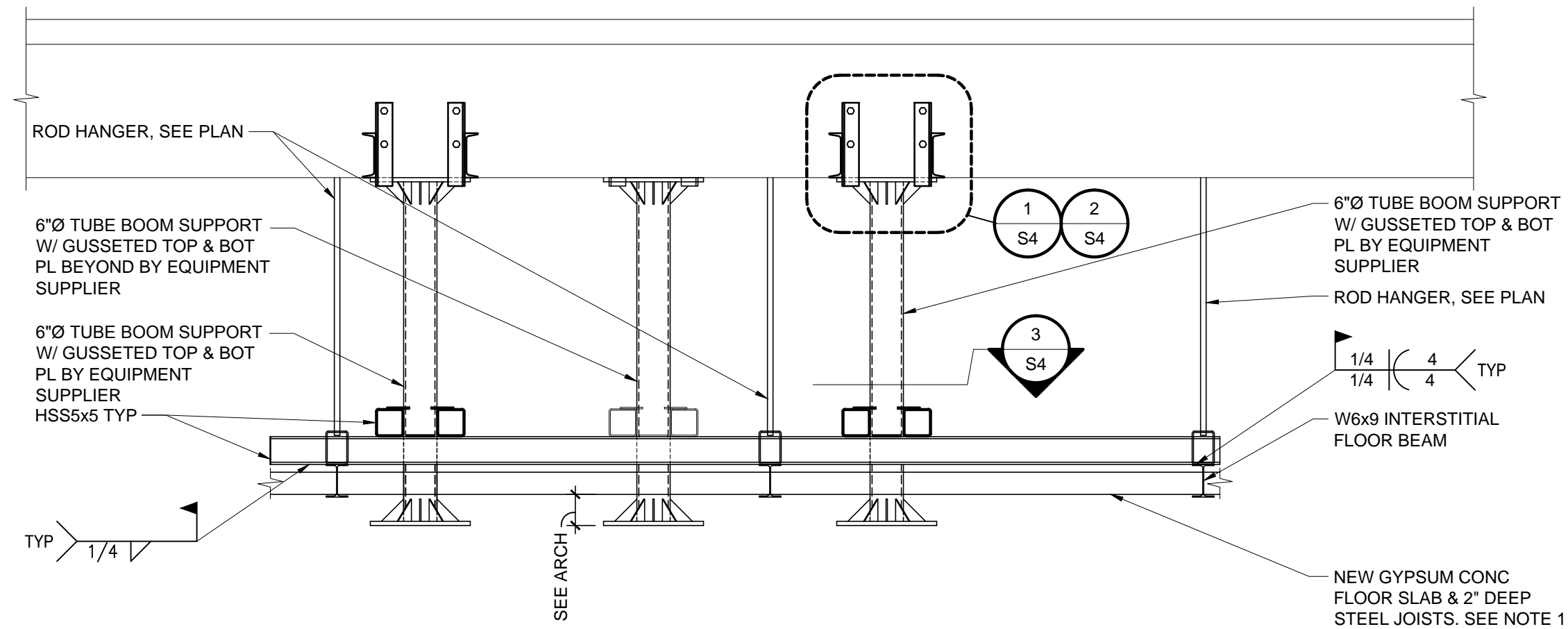
1B
S1
ENLARGED ANCHOR BOLT LAYOUT PLAN



2
S1
LEVEL KEY PLAN



3
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SECTION



4
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SECTION

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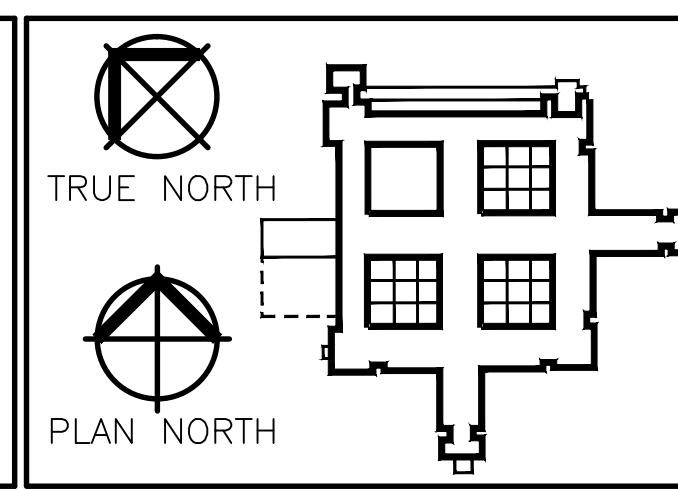
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REVISIONS	DATE

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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.

SIGNATURE: *Keith W. Jacobson* DATE: 06/05/12
PRINTED NAME: KEITH W. JACOBSON REG. NO.: 19861

Drawing Scale: SEE DRAWING
Plot Scale: 12" = 1'-0"

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 # 320126100

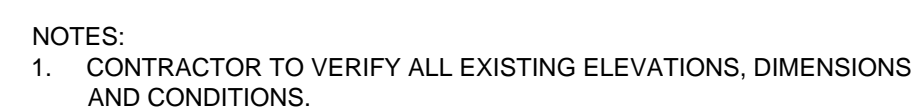
Building Number: 70

DRAWING NO.: 1305-S1

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Office of Facilities Management

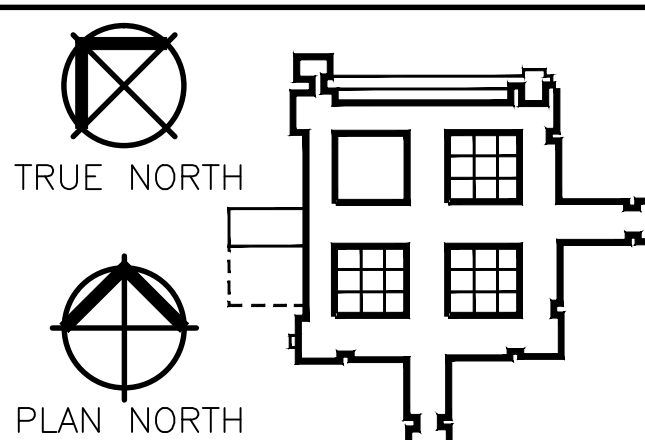
Department of Veterans Affairs



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Keith W. Jacobson
SIGNATURE
KEITH W. JACOBSON

08/05/12
19981

PRINTED NAME	REG. NO.
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Plot Scale 12" = 1'-0"	

Drawing Title

PARTIAL SECOND LEVEL
INTERSTITIAL FRAMING PLAN

Approved: Division Chief

Approved: Service Director

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

Project No. VA Proj # 618-CS1-100: BWBR Proj #: 3.2012151.00	Building Number
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Office of
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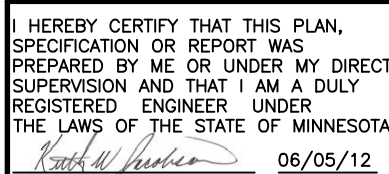
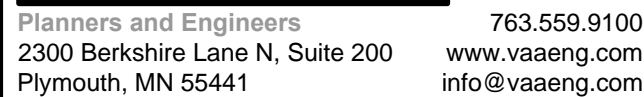
Office of
Facilities
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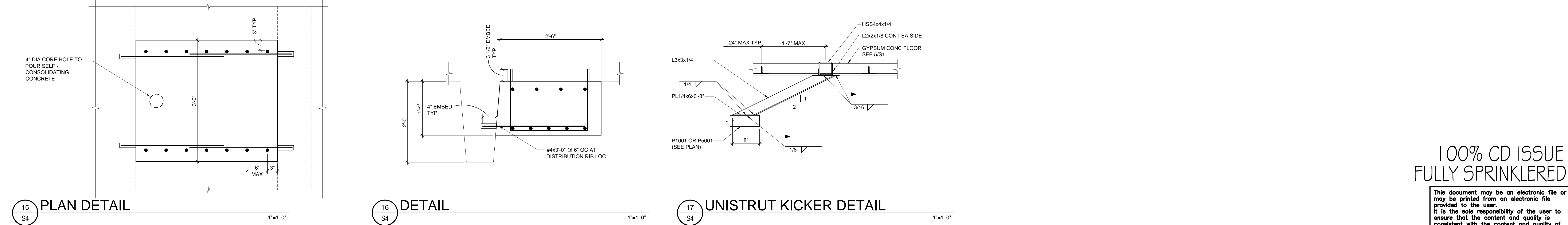
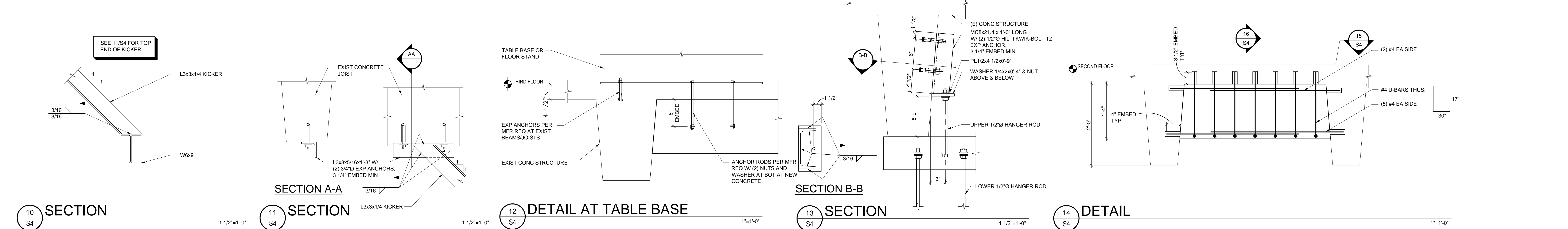
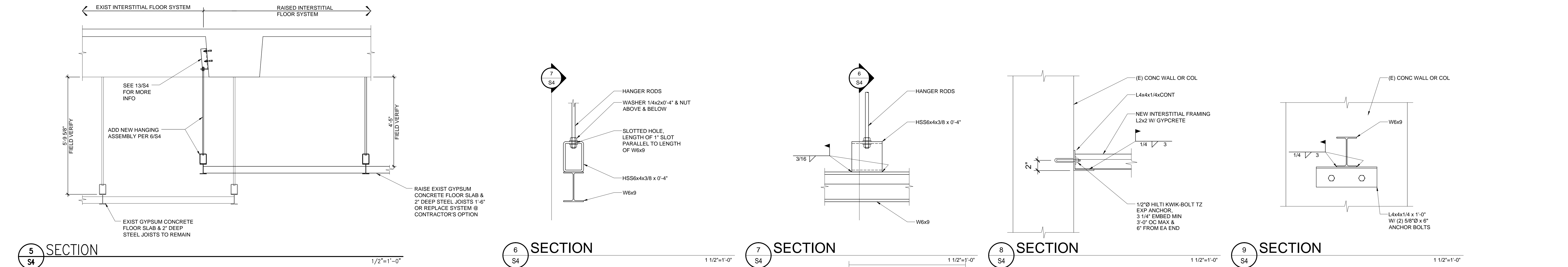
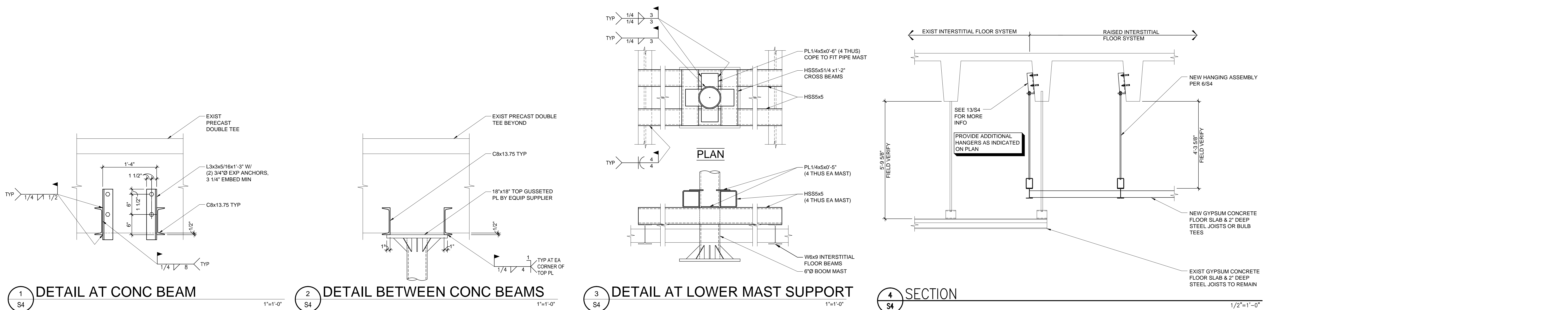
Approved: Division Chief

Approved: Service Director

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

DRAWING NO.
1305-S3

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