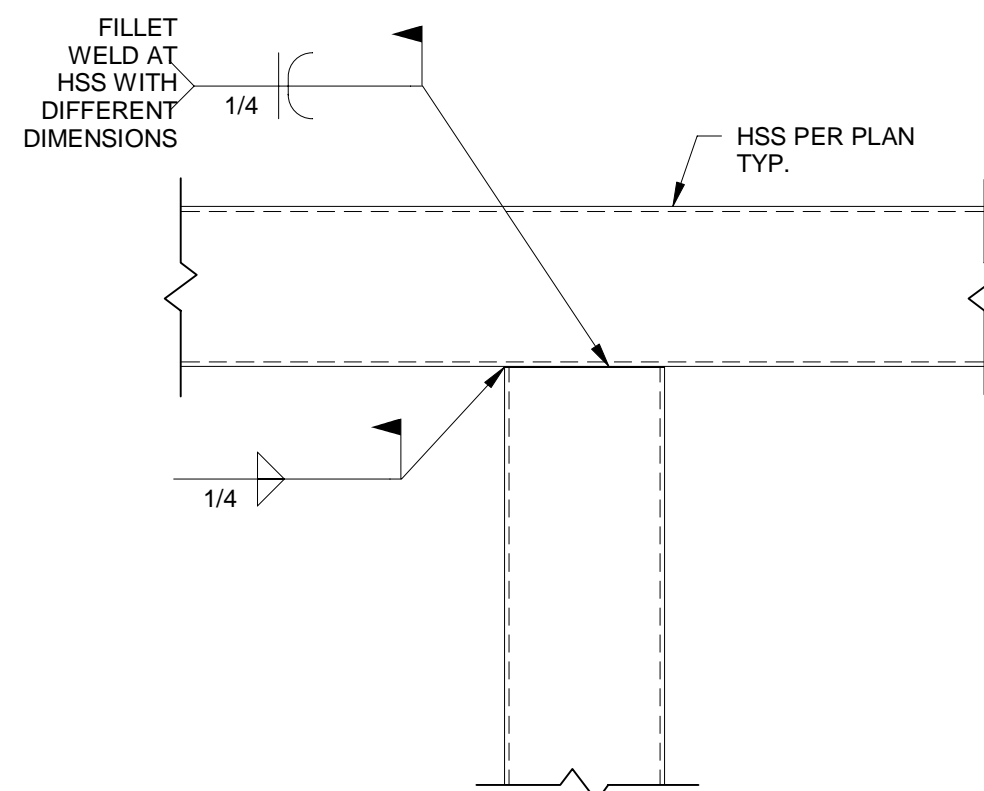
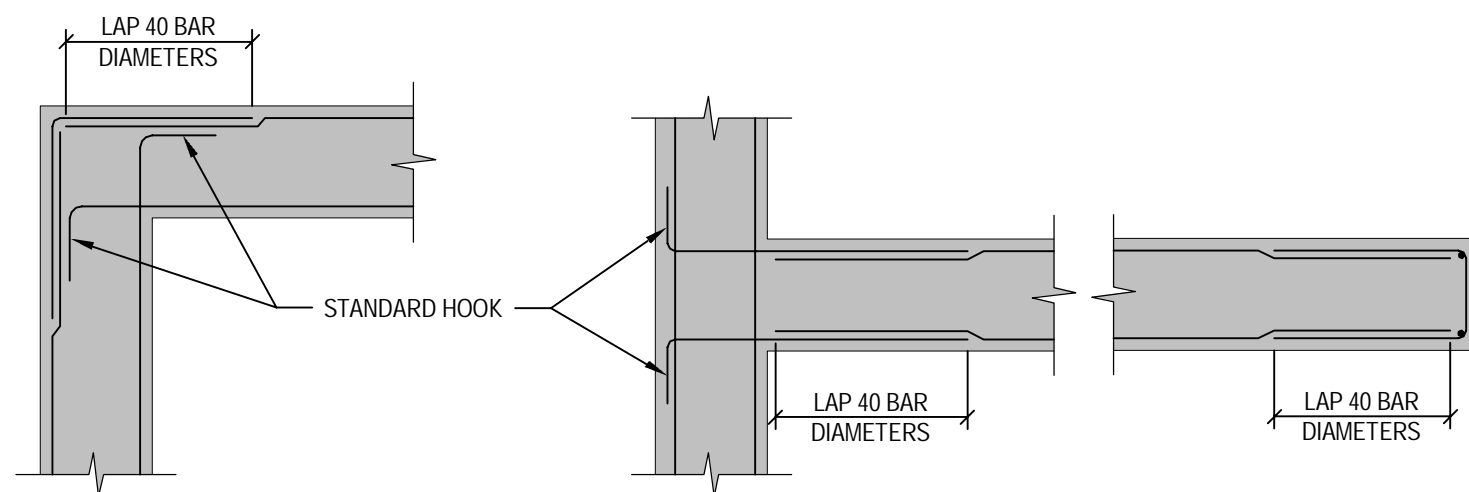


TYPICAL SLAB OPENING INFILL DETAIL



TYPICAL HSS TO HSS MOMENT CONNECTION



- NOTES:**
1. CORNER, HOOK, AND U-BARS MATCH HORIZONTAL REINFORCEMENT IN SIZE AND SPACING.
 2. FOR SINGLE LAYER WALLS USE SINGLE BARS AS SHOWN.

TYPICAL BARS AT WALL AND CURB CORNERS AND INTERSECTIONS

GENERAL STRUCTURAL NOTES:

A. CODES AND SPECIFICATIONS

1. OHIO BUILDING CODE, 2011, INCLUDING UPDATES THROUGH 7-1-2014.
2. ASCE 7-05, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
3. ACI 301-10, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
4. AISC 303-10, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
5. ANSI/AWS D1.1, STRUCTURAL WELDING CODE – STEEL.
6. ADDITIONAL TECHNICAL SPECIFICATIONS IN THE PROJECT MANUAL.

B. CONCRETE

1. CONCRETE STRENGTHS:
 - A. EXTERIOR CONCRETE EXPOSED TO WEATHER: 4000 PSI AE.
 - B. TYPICAL CONCRETE UNLESS NOTED OTHERWISE: 4000 PSI.
2. PROVIDE 3/4" BEVELS AT CORNERS OF ALL EXPOSED COLUMNS, EDGES OF EXPOSED BEAMS AND SLABS, AND TOP EDGES AND CORNERS OF EXPOSED WALLS.
3. JOINTS NOT INDICATED ON STRUCTURAL DRAWINGS ARE NOT PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
4. PLACE NO PERMANENT LOAD, SUCH AS MASONRY WALLS, ON SUPPORTED SLABS UNTIL CONCRETE HAS REACHED SPECIFIED STRENGTH AND ALL SHORING HAS BEEN REMOVED.
5. PLACE NO OPENINGS, SLEEVES, INSERTS, ETC. IN CONCRETE WORK UNLESS CRITERIA INDICATED ON THE STRUCTURAL DRAWINGS IS MET, OR SPECIFIC SIZE AND LOCATION IS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
6. CONCRETE CONSTRUCTION TOLERANCES ARE AS SHOWN IN THE PROJECT SPECIFICATIONS.

C. REINFORCING STEEL

1. ALL REINFORCING BARS: 60 KSI YIELD.
2. PROVIDE TENSION SPLICES UNLESS NOTED OTHERWISE.
3. PROVIDE MINIMUM CLEARANCES BETWEEN REINFORCING STEEL AND CONCRETE SURFACES AS SHOWN. IF NOT SHOWN, PROVIDE CLEAR COVER PER ACI. PLACE ALL REINFORCING AS SHOWN AND DETAILED, AND WITHIN ACI TOLERANCE.
4. EPOXY COAT REINFORCING WHERE INDICATED.

D. STRUCTURAL STEEL

1. ALL WORK SHALL CONFORM TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) STANDARDS AND THE PROJECT SPECIFICATIONS.
 2. FABRICATOR SHALL MEET AISC "STANDARD FOR STEEL BUILDING STRUCTURES" PER THE PROJECT SPECIFICATIONS.
 3. MATERIAL:
 - A. WIDE FLANGE SHAPES: ASTM A992 (Fy 50 KSI).
 - B. OTHER ROLLED SHAPES: ASTM A588 (Fy 36 KSI).
 - C. STRUCTURAL TUBING, HSS SHAPES: ASTM A500, GRADE B (Fy 46 KSI).
 - D. STEEL PIPES: ASTM A312, GRADE B (Fy 35 KSI).
 - E. HEADERS AND STUDS: ASTM A106, CONFORM WITH AWS D1.1, TYPE B.
 - F. BOLTS: ASTM A563, 3/4" MIN. DIA., UNF.
 - G. ANCHOR RODS: ASTM F1554 (Fy 60 KSI), COMPLY.
 4. PROVIDE TENSION CONTROL A325-T3 BOLTS OR F1582 ASSEMBLIES, OR P595 SELF INDICATING LOAD INDICATOR WASHERS AND PRETENSION ALL BOLTS.
 5. ALL WELDING MATERIALS, WELDING PROCEDURES AND OPERATORS PERFORMING WELDING TO BE QUALIFIED PER AWS D1.1.
 6. PRIME PAINTING IS REQUIRED FOR ALL STEEL WHICH WILL BE VISIBLE IN THE COMPLETED BUILDING AND IS NOT SCHEDULED TO RECEIVE FIRE PROOFING, INCLUDING AREAS OF EXPOSED STRUCTURE SHOWN ON ARCHITECTURAL DRAWINGS. PROTECT ALL EXPOSED STEEL FROM CORROSION BY AN ANNUAL MAINTENANCE FOLLOW-UP. ADDITIONAL REQUIREMENTS OF AISC SPECIFICATIONS AND THE PROJECT SPECIFICATIONS FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL. VERIFY FIRM COMPATIBILITY WITH FIELD APPLIED TOP COATS.
- UNLESS NOTED OTHERWISE, ALL EXTERIOR WALL LINTELS, LEDGE ANGLES, WINDOW AND DOOR COORDINATION, AND ALL OTHER EXPOSED STEEL SHALL BE STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED.

E. COORDINATION AND CONSTRUCTION

1. THE SPECIFICATIONS AND DRAWINGS COMPLEMENT EACH OTHER. BOTH SHALL BE THOROUGHLY REVIEWED BEFORE PROCEEDING WITH ANY WORK. THE CONTRACTOR SHALL COMPLETE ALL WORK REQUIRED AND NECESSARY FOR THE PROJECT IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, DRAWINGS, AND REFERENCED STANDARDS.
2. UNLESS OTHERWISE NOTED, DETAILS, SECTIONS AND NOTES ON THE STRUCTURAL DRAWINGS ARE INTENDED TO APPLY TO SIMILAR SITUATIONS ELSEWHERE.
3. STRUCTURAL FRAMING PLANS ARE DRAWN AS REFLECTED PLANS SHOWING BEAMS, WALLS, AND COLUMNS ON THE UNDERSIDE OF THE LEVEL SHOWN.
4. ALL FRAMING MEMBERS PREPARED FOR MECHANICAL TRADERS, COILING TOWER FRAMING, FRAMING, LINTELS, ROOF OPENINGS, ETC., ARE FOR BIDDING PURPOSES ONLY. SUBMIT MANUFACTURER'S DATA FOR THE PROPOSED EQUIPMENT TO STRUCTURAL ENGINEER FOR VERIFICATION OR REDESIGN OF SUPPORTS PRIOR TO PREPARING SHOP DRAWINGS.
5. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DETAILS, DIMENSIONS, EMBEDDED ITEMS, SLEEVES, FLOOR PITCHES, DEPRESSIONS AND FLATS. OPERATING CLINGS AND LOCATIONS FOR PIPES, DUCTS, ETC., WHEN SHOWN, ARE TO BE MAINTAINED, NOT REMOVED OR MODIFIED, UNLESS VERIFIED WITH MECHANICAL, ELECTRICALS AND OTHER DRAWINGS AS APPLICABLE.
6. SHOP DRAWINGS PREPARED BY SUPPLIERS AND SUB CONTRACTORS SHALL BE REVIEWED BY THE TRADE CONTRACTOR AND GENERAL CONTRACTOR OR CONSTRUCTION MANAGER PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.
 - A. FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS WHICH AFFECT FABRICATION AND SHOW ON SHOP DRAWINGS.
 - B. VERIFY AND SHOW EXACT SIZE AND LOCATION OF ALL FLOOR, WALL AND ROOF OPENINGS, SLAB EDGES, EMBEDDED ANCHORS AND OTHER ITEMS.
 - C. SHOW AND LOCATE ALL MECHANICAL, ELECTRICAL, FIBERS, DRAINS, ETC. ON COORDINATION DRAWINGS. ITEMS NOT REVIEWED BY THE STRUCTURAL ENGINEER ARE NOT PERMITTED IN OR THROUGH THE STRUCTURE.
 - D. SUBMIT COMPLETE SHOP DRAWINGS WITH MANUFACTURERS' DATA, ETC. SHOW ALL CONNECTIONS AND DETAILS NECESSARY TO FULLY DESCRIBE AND PROPERLY INSTALL THE WORK.
 - E. STRUCTURAL ENGINEER'S REVIEW SHALL BE FOR GENERAL ARRANGEMENT AND CONFORMANCE WITH THE STRUCTURAL INTENT ONLY.
7. THE SPECIFICATIONS AND STRUCTURAL DRAWINGS TYPICALLY REFER TO THE FINISHED STRUCTURE. UNLESS NOT OTHERWISE, THEY DO NOT PRESCRIBE THE METHOD OF CONSTRUCTION.
8. BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.

9. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS.

10. THE ARCHITECT'S AND ENGINEER'S OBSERVATION AND REVIEW OF CONTRACTORS' PERFORMANCE DOES NOT INCLUDE REVIEW OF ADEQUACY OF CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

F. MECHANICAL AND OTHER ITEMS EMBEDDED IN OR SUPPORTED FROM STRUCTURE

1. PLACEMENT OF CONDUITS IN CONCRETE SHALL ADHERE TO THE FOLLOWING:
 - A. OUTSIDE DIAMETER OF CONDUITS SHALL BE 1" OR LESS WHERE EMBEDDED IN SLABS AND JOISTS, AND 1-1/2" OR LESS WHERE EMBEDDED IN BEAMS, WALLS, OR COLUMNS.
 - B. BURCHING OF CONDUITS IS NOT PERMITTED. CONDUITS SHALL BE SPACED 3 DIAMETERS OR GREATER ON CENTER, AND 6" MIN. AWAY FROM COMPOSITE STEEL STUD CONNECTORS.
 - C. BUNCHING OF PLACED IN CONDUITS IN CONCRETE, JOISTS AND BEAMS SHALL BE LIMITED TO ONE CONDUIT PER JOIST AND THREE CONDUITS PER BEAM. SPACE 6" MIN. AWAY FROM LONGITUDINAL REINFORCING.
 - D. MINIMUM CONDUIT COVER ON CONDUITS SHALL BE 1-1/2".
 - E. ALUMINUM CONDUITS, PIPES, OR SLEEVES SHALL NOT BE PERMITTED.
2. ALL TRADE CONTRACTORS (MECHANICAL, STEEL, WALL, ENVELOPE, SPECIALTY, ETC.) ARE TO DESIGN THEIR SYSTEMS, INCLUDING ATTACHMENTS TO THE BUILDING'S STRUCTURE WITH THE FOLLOWING LIMITATIONS:
 - A. LOADS ARE TO BE DISTRIBUTED TO THE STRUCTURE IN A MANNER THAT DOES NOT EXCEED THE LOAD ALLOWANCES NOTED UNDER DESIGN LOADS. ANCHORS ARE TO HAVE AN ULTIMATE SAFETY FACTOR OF AT LEAST 4.0.
 - B. LOADS IMPOSED BY EQUIPE FLANGE BEAMS ARE TO BE APPLIED IN A MANNER WHICH DOES NOT CAUSE TORSION ABOUT THE LONGITUDINAL AXIS OF THE BEAM.
3. THE SIZE AND LOCATION OF EQUIPE, FUR CUBES, ELEVATORS, AND OTHER ITEMS MUST BE COORDINATED WITH SUPPORTING STRUCTURAL STEEL, AND/OR ANCHOR TRACED TO THE FOUNDATION. DIMENSIONAL INFORMATION IS PROVIDED TO STEEL FABRICATOR PRIOR TO FABRICATION.
4. ROOF CURBS SUPPORTING LOADS MUST BEAR DIRECTLY ON SUPPORTING STEEL OR CONCRETE STRUCTURE. IF PLACED ABOVE MEAL, ROOF DECK, PROVIDE SHAVING AND DECK RIES TO TRANSFER LOADS THROUGH DECK TO SUPPORTING STRUCTURE.

G. QUALITY CONTROL AND ASSURANCE

1. THE CONTRACTOR SHALL PERFORM QUALITY CONTROL, TESTING AND INSPECTION OF ALL WORK AS REQUIRED BY THE CONTRACT DOCUMENTS, INCLUDING REFERENCED CODES, SPECIFICATIONS AND STANDARDS.
 2. THE OWNER WILL EMPLOY A TESTING AND INSPECTION AGENCY TO PERFORM SERVICES INDICATED TO BE BY OWNER IN THE PROJECT SPECIFICATIONS.
 3. THE OWNER WILL ALSO EMPLOY QUALIFIED SPECIAL INSPECTORS TO PERFORM INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE. THE ITEMS REQUIRING SPECIAL INSPECTION ON THIS PROJECT INCLUDE:
 - A. CONCRETE: ALL CONCRETE WORK.
 - B. REINFORCING STEEL: ALL REINFORCING STEEL.
 - C. STRUCTURAL STEEL: ALL WELDING AND HIGH STRENGTH BOLTING.
 4. THE STRUCTURAL ENGINEER MAY GENERALLY OBSERVE THE PROGRESS OF THE WORK, BUT HIS OBSERVATION SHALL NOT BE CONSTRUED AS INSPECTION.
- DESIGN LOADS**
1. SPECIAL LOADS AND/OR DESIGN DATA:
 - LOADS USED FOR THE DESIGN OF THE CEILING MOUNTED EQUIPMENT, HYBRID UNIT, AND ROOF CURB ARE NOTED ON THE STRUCTURAL DRAWINGS.

3225.00

ISSUED FOR BIDDING

05-29-15

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STATE OF OHIO

FRANK JOSEPH ELLEST

E-50492

REGISTERED PROFESSIONAL ENGINEER

Revised By:

Drawing Title

GENERAL NOTES

Approved: Project Manager

CHRIS MOORHEAD

Approved: Service Chief

PHILIP KIRK

Project Title

RENOVATE OPERATING ROOMS
B310

Building Number

310

Checked

FJE

Drawn

JTB

Location

4100 WEST THIRD STREET
DAYTON, OH 45428

Date

05/29/15

Project No.

552-15-101

Drawing No.

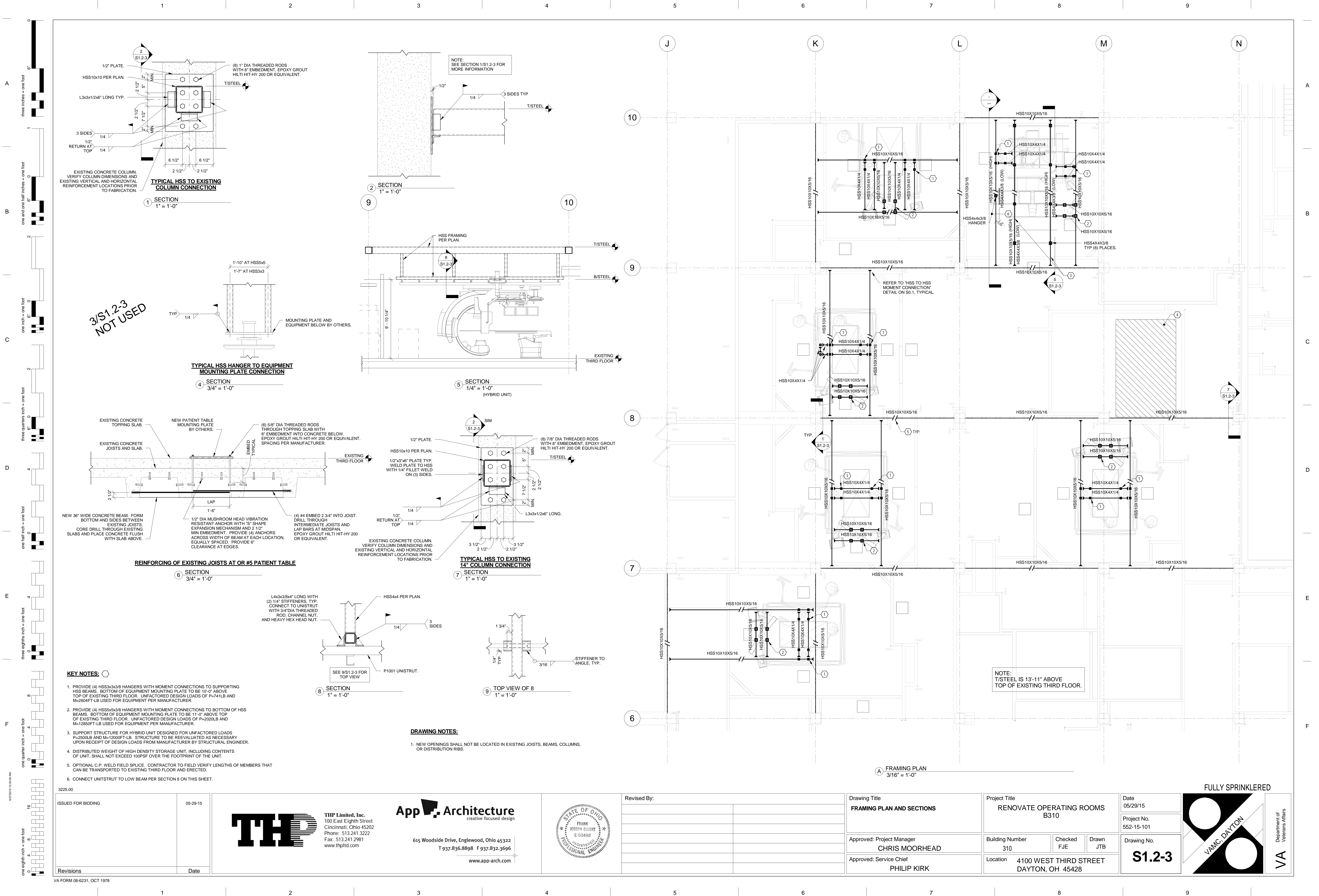
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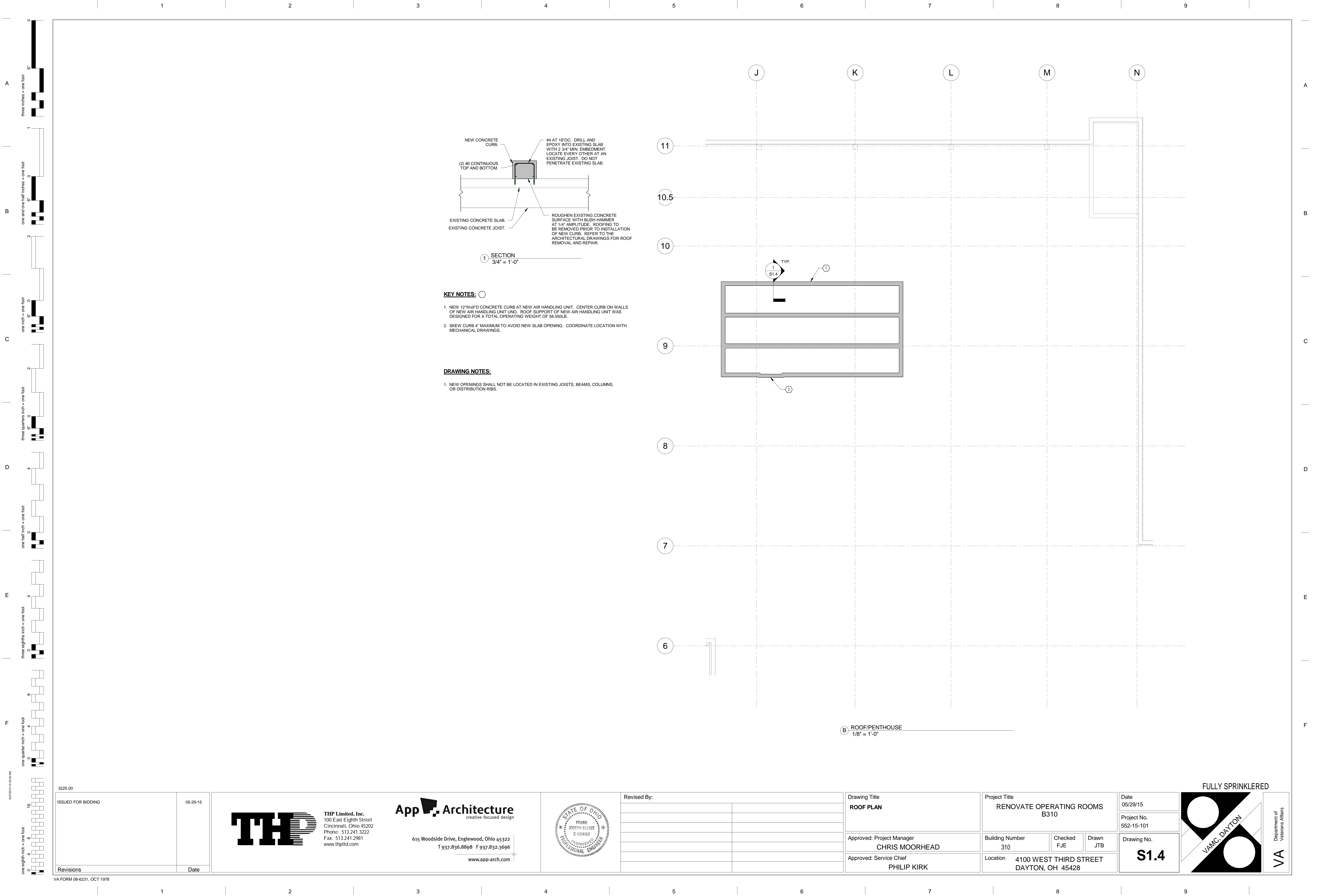
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VAMC DAYTON

Department of Veterans Affairs

VA

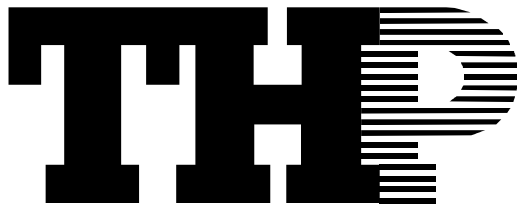




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Revisions	Date



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Revised By:	

Drawing Title ROOF PLAN
Approved: Project Manager CHRIS MOORHEAD
Approved: Service Chief PHILIP KIRK

Project Title		
RENOVATE OPERATING ROOMS B310		
Building Number 310	Checked FJE	Drawn JTB
Location 4100 WEST THIRD STREET DAYTON, OH 45428		

Date 05/29/15
Project No. 552-15-101
Drawing No. S1.4

