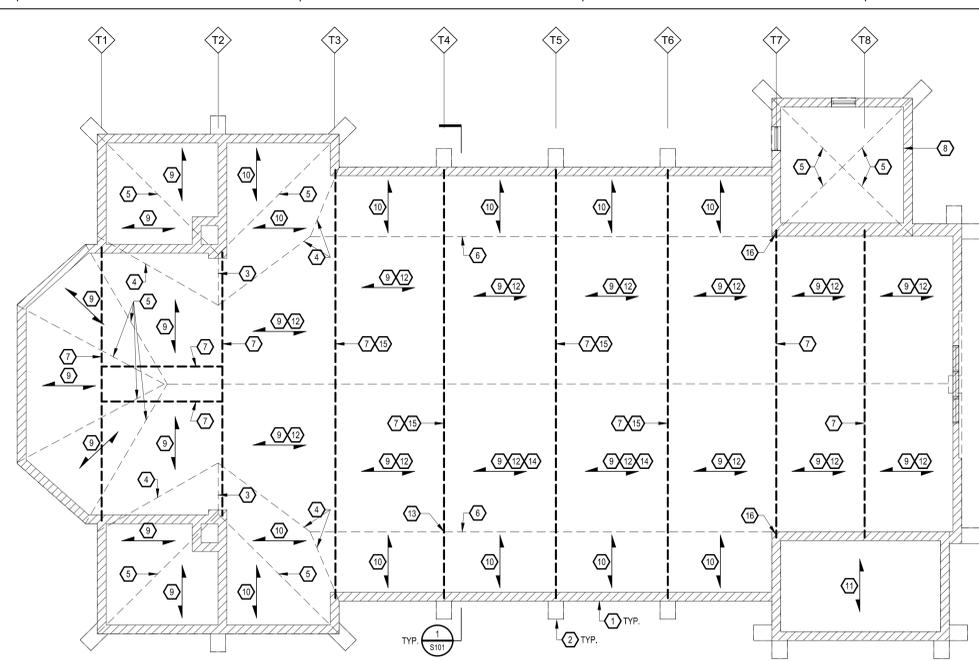
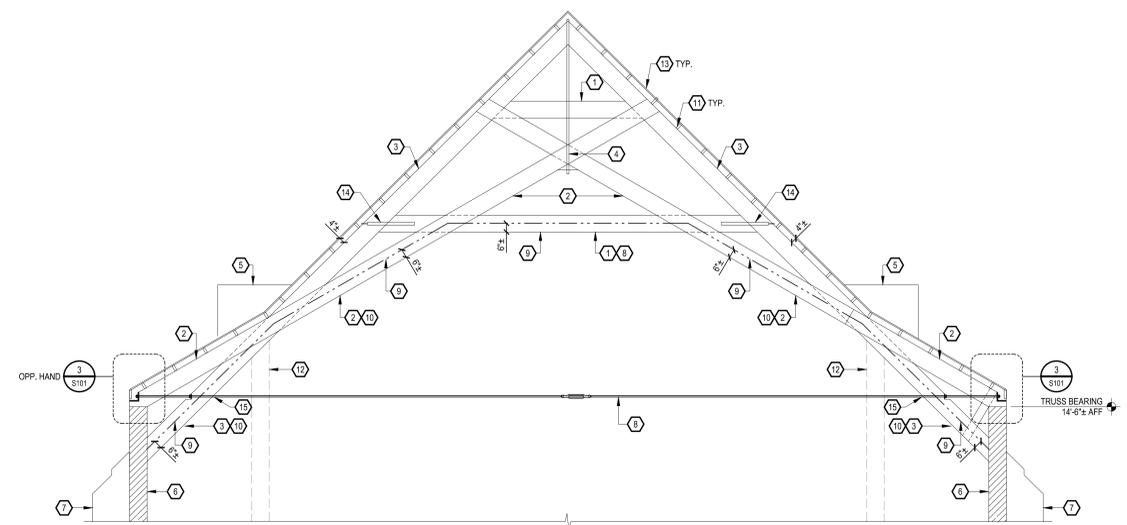


three inches = one foot
 one and one-half inches = one foot
 one inch = one foot
 three-quarters inch = one foot
 one-half inch = one foot
 three-eighths inch = one foot
 one-quarter inch = one foot
 one-eighth inch = one foot



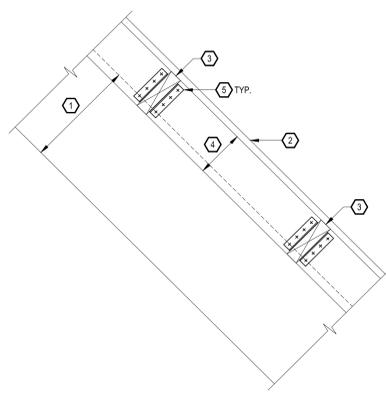
**BUILDING 119
 ROOF FRAMING PLAN**
 1/8" = 1'-0"
 NORTH

- KEY NOTES:**
- EXISTING MASONRY BEARING WALLS.
 - EXISTING MASONRY WING WALL/BUTTRESS.
 - EXISTING RIDGE LINE.
 - EXISTING VALLEY LINE.
 - EXISTING HP LINE.
 - EXISTING BREAK IN ROOF PITCH.
 - EXISTING ROOF TRUSS.
 - HIGH ROOF AT BELL TOWER (NO WORK).
 - EXISTING 2x8 PURLINS AT 24" O.C.
 - EXISTING 2x8 RAFTERS AT 24" O.C. OVERFRAMED ON RAFTERS BELOW.
 - EXISTING 2x8 RAFTERS AT 24" O.C. ON LOW SLOPE ROOF (NO WORK).
 - INSTALL (2) ROWS OF FULL DEPTH BLOCKING EQUALLY SPACED BETWEEN THE TRUSSES. BLOCKING TO EXTEND FROM WALL TO RIDGE. REMOVE EXISTING SHEATHING AS REQUIRED TO INSTALL BLOCKING. REFER TO DETAIL 2 ON DRAWING S101 (EAST OF LINE T7 TO RECEIVE SINGLE ROW OF BLOCKING AT MIDSPAN).
 - REPAIR DAMAGED TRUSS JOINT. INSTALL 3/8"x10"x24" PLATE EACH FACE WITH (10) 3/8" DIA. THRU BOLTS. FIELD VERIFY DIMENSIONS AND SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION. REMOVE AND REPAIR PLASTER CEILING AS REQUIRED FOR INSTALLATION. PAINT TO MATCH EXISTING EXPOSED TRUSS CHORD.
 - REPAIR (4) DAMAGED JOISTS THIS BAY BY SISTERING NEW 2x8 TO EXISTING JOIST. ATTACH WITH (2) 16d SINKERS AT 18" O.C.
 - INSTALL 1 1/8" DIA. TIE ROD. REFER TO DETAILS 1 AND 3 ON DRAWING S101. ROD TO HAVE TURNBUCKLE AT CENTER. TENSION ROD TO ACHIEVE 1" MAXIMUM SAG AT CENTERLINE.
 - INSPECT TRUSS BEARING AT EXISTING LEAK FOR SIGNS OF DETEIORATION. ASSUME REMOVAL AND REPLACEMENT OF EXISTING INTERIOR TRIM AND PORTION OF CEILING TO ALLOW FOR INSPECTION BY ENGINEER DURING CONSTRUCTION. CEILING TO REMAIN OPEN AS REQUIRED TO ALLOW AREA TO DRY THOROUGHLY.



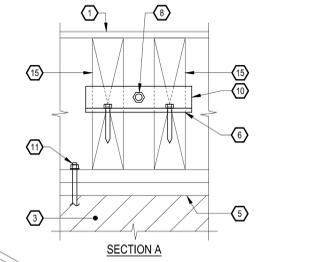
- KEY NOTES:**
- EXISTING 8x8 NOMINAL WOOD TRUSS MEMBER.
 - EXISTING (2) 4x12 NOMINAL WOOD TRUSS MEMBER.
 - EXISTING 8x12 NOMINAL WOOD TRUSS MEMBER.
 - EXISTING 1 1/2" DIA HANGER ROD.
 - EXISTING ROOF DORMERS.
 - EXISTING MASONRY BEARING WALL.
 - EXISTING MASONRY BUTTRESS.
 - NEW 1 1/2" DIA ROD WITH TURNBUCKLE.
 - LINE OF EXISTING PLASTER CEILING SUPPORTED ON 2x8 CEILING JOISTS. DO NOT DAMAGE.
 - EXPOSED TO VIEW IN CHURCH.
 - EXISTING NOMINAL 2x8 RAFTERS AT 24" O.C.
 - LINE OF EXISTING BEARING WALL AT REAR OF CHURCH.
 - EXISTING NOMINAL 1x ROOF SHEATHING.
 - EXISTING STEEL STRAP TIE. RESET BEARING PLATE INTO EXISTING NOTCH AND RETIGHTEN NUTS.
 - DRILL THROUGH EXPOSED TRUSS CHORD TO INSTALL NEW ROD.

SECTION 1
 1/4" = 1'-0"
 S101



- KEY NOTES:**
- EXISTING TRUSS CHORD.
 - EXISTING 1x ROOF SHEATHING. REMOVE AND REPLACE AS REQUIRED TO INSTALL BLOCKING.
 - EXISTING 2x8 RAFTER AT 24" O.C.
 - NEW FULL DEPTH BLOCKING. INSTALL (2) ROWS EQUALLY SPACED BETWEEN EVERY TRUSS.
 - SIMPSON L70 ANGLE CONNECTOR EACH END OF BLOCKING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

FULL DEPTH BLOCKING DETAIL 2
 1-1/2" = 1'-0"
 S101



- KEY NOTES:**
- EXISTING 1x ROOF SHEATHING. REMOVE AND REPLACE AS REQUIRED FOR INSTALLATION OF PLATE AND ROD.
 - EXISTING 2x8 RAFTER AT 24" O.C.
 - EXISTING BRICK MASONRY BEARING WALL.
 - EXISTING CEILING SUPPORT MEMBER.
 - EXISTING DOUBLE TOP PLATE.
 - CUT EXISTING TRUSS CHORD TO FULLY FIT BOTH FACES OF ANGLE.
 - EXISTING BOLT.
 - NEW 1 1/2" DIA ROD WITH TURNBUCKLE AT CENTERLINE OF CHURCH. END 60" OF ROD TO BE THREADED.
 - INSTALL 1 1/2" DIA ROD BY DRILLING 1 1/2" DIA HOLE THROUGH EXPOSED INTERIOR TRUSS CHORD EACH END. PROVIDE NUT EACH END AT NEW ANGLE STOP. TENSION ROD TO PROVIDE A MAXIMUM SAG OF 1" AT CENTERLINE. FOUL THREADS TO PREVENT LOOSENING WHILE STILL ALLOWING FUTURE TIGHTENING OF THE ROD.
 - 1.6x6x1/2 x 12" LONG. HOLD AS CLOSE TO WALL AS POSSIBLE. PROVIDE (2) 1/2" DIA x 4" LONG LAG SCREWS INTO EACH MEMBER SPACED AT 3" O.C.
 - 1 1/2" DIA ASTM A193 B7 THREADED ROD AT 24" O.C. WITH 5" MIN. EMBEDMENT CENTERED IN EXISTING MASONRY WITH HILTI HY-HY 150 MAX EPOXY (OR EQUIVALENT).
 - NOTCH BACK SIDE OF MEMBER TO RECEIVE 1/4"x3/8"x3" PLATE AND NUT. FINGER TIGHTEN AFTER ROD IS COMPLETELY TENSIONED.
 - INSTALL NEW SIMPSON HGAM10 (OR EQUIVALENT) CENTERED EACH SIDE OF MEMBER.
 - VERIFY LOWER TRUSS MEMBER BEARS WITHIN WALL. IF FIELD CONDITION IS NOT AS SHOWN REPORT DISCREPANCY TO ENGINEER IMMEDIATELY.
 - EXISTING NOMINAL (2) 4x12 WOOD TRUSS MEMBER.
 - EXISTING NOMINAL 8x12 WOOD TRUSS MEMBER.

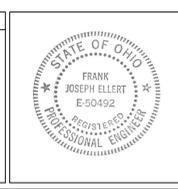
TRUSS BEARING DETAIL 3
 1-1/2" = 1'-0"
 S101

- GENERAL STRUCTURAL NOTES:**
- A. CODES AND SPECIFICATIONS**
- INTERNATIONAL BUILDING CODE, 2006.
 - ASCE 7-05, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
 - ACI 301-05 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
 - AISC 303-05 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
 - ANSI/AWS D1.1 STRUCTURAL WELDING CODE - STEEL
- B. STRUCTURAL STEEL**
- ROLLED PLATES AND SHAPES: ASTM A36 (Fy = 36 KSI)
 - ANCHOR RODS: ASTM F1554 (Fy = 36 KSI)
- C. COORDINATION AND CONSTRUCTION**
- FIELD VERIFY EXISTING DIMENSIONS AND ELEVATIONS WHICH AFFECT FABRICATION PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND FABRICATION.
 - STRUCTURAL FRAMING PLANS ARE TYPICALLY DRAWN AS REFLECTED PLANS SHOWING BEAMS, WALLS, AND COLUMNS ON THE UNDERSIDE OF THE LEVEL SHOWN.
 - BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT
 - IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL 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 WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS.
 - THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF CONTRACTORS PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF ADEQUACY OF CONTRACTORS SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
- D. DESIGN LOADS**
- ROOF LOAD:
 ROOF LIVE LOAD, MINIMUM: 20 PSF - (UNREDUCED)
 CEILING AND MECHANICAL ALLOWANCE: 10 PSF
 ROOFING AND BALLAST ALLOWANCE: 20 PSF
- E. UTILITIES**
- PRIOR TO EXCAVATION AND EARTHWORK, VERIFY LOCATIONS OF UNDERGROUND UTILITIES WITH THE UTILITY COMPANIES, AND OWNER. EXCAVATE OR SURVEY TO ESTABLISH EXACT UTILITY LOCATIONS. UTILITY LOCATIONS. COORDINATE ALL WORK WITH THE UTILITIES TO ASSURE THEIR UNINTERRUPTED FUNCTION.
 - ADEQUATELY PROTECT UTILITIES FROM DAMAGE. WHERE ACTIVE UTILITIES ARE ENCOUNTERED BUT NOT SHOWN ON THE DRAWINGS, CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER.
- F. WOOD FRAMING**
- WOOD CONSTRUCTION SHALL COMPLY WITH AMERICAN FOREST & PAPER ASSOCIATION ASD MANUAL FOR ENGINEERING WOOD CONSTRUCTION INCLUDING APPLICABLE ASD SUPPLEMENTS AND GUIDELINES CONSTRUCTION.
 - MATERIALS:
 a. LUMBER STANDARD: COMPLY WITH DOC PS 20
 b. BLOCKING: SOUTHERN YELLOW PINE NO. 2 OR BETTER
 - THE NUMBER AND SIZE OF NAILS CONNECTING WOOD MEMBERS SHALL NOT BE LESS THAN THAT INDICATED IN TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE.
 - PROVIDE BRIDGING TO MATCH EXISTING BRIDGING LINES.
 - PROPER ERECTION BRACING AND SHORING SHALL BE PROVIDED TO STABILIZE THE STRUCTURE AND ITS COMPONENTS UNTIL ALL CONNECTIONS HAVE BEEN MADE.
- G. CONCRETE**
- CONCRETE STRENGTHS:
 a. TYPICAL CONCRETE UNLESS NOTED OTHERWISE: 4500 PSI AE
 - PROVIDE 3/4" BEVELS AT CORNERS OF ALL EXPOSED EDGES OF EXPOSED BEAMS AND SLABS, AND TOP EDGES AND CORNERS OF EXPOSED WALLS.
 - JOINTS NOT INDICATED ON STRUCTURAL DRAWINGS ARE NOT PERMITTED UNLESS APPROVED BY STRUCTURAL ENGINEER.
 - PLACE NO PERMANENT LOAD, SUCH AS MASONRY WALLS, ON SUPPORTED SLABS UNTIL CONCRETE HAS REACHED SPECIFIED STRENGTH AND ALL SHORING HAS BEEN REMOVED.
 - PLACE NO OPENINGS, SLEEVES, INSERTS, ETC., IN CONCRETE WORK UNLESS CRITERIA INDICATED ON STRUCTURAL DRAWINGS IS MET, OR IS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
 - CONCRETE CONSTRUCTION TOLERANCES ARE AS SHOWN IN THE PROJECT SPECIFICATIONS.
- H. REINFORCING STEEL**
- ALL REINFORCING: 60 KSI YIELD, EPOXY COATED
 - PROVIDE TENSION SPLICES UNLESS OTHERWISE NOTED.
 - CLEARANCES BETWEEN REINFORCING BARS AND CONCRETE SURFACES SHALL BE ACI MINIMUM UNLESS OTHERWISE NOTED.

REVISION	DATE
1	2/27/13
FOR BID	1/30/13
	Date

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Drawing Title

**BUILDING 119
 ROOF FRAMING PLAN
 AND DETAILS**

Approved: Project Director

Project Title

Stabilize Historic Buildings

Location **Dayton, Ohio**

Date **JANUARY 30, 2013**

Checked **FJE**

Drawn **SET**

Project No. **552-13-102**
 VA Project No. **12015.00**

JPA Project No. **12015.00**

Building Number **119**

Drawing Number **119-S101**

Dwg. of

**Office of
 Construction
 and Facilities
 Management**

**Department of
 Veterans Affairs**