GENERAL NOTES

DESIGN PARAMETERS:

1. Design Codes - (All latest editions unless noted):
   - A. International Building Code (IBC 2006)
   - B. American Society of Civil Engineers (ASCE 7-05) Minimum Design Loads for Buildings and Other Structures
2. Foundation
   - A. Drilled Piers on competent shale are designed for a maximum soil bearing pressure of 10,000 psf for drilled piers, based on a report by Terracon Consulatants dated November, 2011. Four (4) feet of soil below buildings shall be undercut and backfilled with compacted structural fill per soils report.
   - B. If the soil is of questionable bearing value, the Engineer or Architect shall be notified immediately.
   - C. After footing excavations are completed and before placing concrete, the excavated areas shall be inspected and approved by the Owner selected independent testing laboratory.
   - D. The Soils Engineer is the sole judge of suitability of underlying material to support foundations and shall approve bearing material before foundation installation. See specifications.
   - E. Coefficient of horizontal friction between concrete and soil = 0.35
   - F. Minimum depth from exterior ground surface to bottom of foundations = 24 inches.
   - G. Prepare site and place fill in accordance with the recommendations in the soils report noted above. Observe construction recommendations noted in the soils report. All fill material shall be in accordance with soils report recommendations.
   - H. Construct non-basement floor slabs on the granular fill layer required by the plan notes. The granular fill shall be placed on non-expansive soil which has been place in accordance with the soils report.
   - I. Backfill basement and retaining walls with ASTM C-33 No. 57 stone or equivalent approved by the soils Engineer. Extend stone from the base of walls outward at a 45 degree angle to the vertical
   - J. Backfilling:
   - Do not backfill basement walls and grade beams until bracing floors are in place or temporary bracing is installed.
   - Backfill in even lifts alternating from side to side.
   - Backfill under foundations with concrete or as approved by soils Engineer.
3. Future Roof Loads:
   - A. Future Roof Dead Loads.....20 psf
   - B. Future Roof Live Load.....20 psf
4. Wind Load:
   - A. Wind Loads (IBC 2006)
   - B. Wind Speed.....90 mph
   - C. Wind Exposure Category.....C
   - D. Wind Importance Factor.....1.0
5. Snow Load:
   - A. Snow Load (IBC 2006)
   - B. Ground Snow Load.....10 psf
   - C. Exposure Coefficient Ce.....0.90
   - D. Thermal Factor Ct.....1.1
   - E. Importance Factor for Snow I.....1.0
   - F. Roof Slope Factor Cs.....1.0
   - G. Roof Snow Load.....Pf= 7 psf (use 10 psf Min)
6. Floor Loads:
   - A. Floor Dead Loads.....51 psf
   - B. Floor Live Loads.....100 psf
   - C. Floor MEP Allowance.....15 psf
   - D. Floor Partition Load.....20 psf
7. Seismic Loads (IBC 2006):
   - 0.2 Sec Spectral Acceleration .....Ss = 0.514
   - 0.2 Sec Site Coefficient .....Fa = 1.190
   - 0.2 Sec Design Acceleration .....Sds = 0.410
   - 1.0 Sec Spectral Acceleration .....S1 = 0.165
   - 1.0 Sec Site Coefficient .....Fv = 1.63
   - 1.0 Sec Design Acceleration .....Sd1 = 0.180
   - Site Class.....C
   - Occupancy Category.....II
   - Seismic Importance Factor.....1.0
   - AISC Seismic Provisions.....Not Applicable
   - Seismic Design Category.....C
   - Basic Structural System.....Steel Systems Not Specifically Detailed for Seismic Resistance
   - Seismic Force Resisting System.....NA
   - Response Modification Factor.....R=3
   - Deflection Amplification Factor.....Cd=3
   - Analysis Procedure.....Equivalent Lateral Force Procedure

   Non-Structural Component Seismic Exemption:
   - A. Architectural Components:
     Architectural components must comply with seismic requirements of Chapter 13 ASCE 7. (SDC=C)
   - B. Mechanical and Electrical Components:
     Mechanical and electrical components with an Ip= 1.0 are exempt from seismic requirements. Components with Ip>1.0 must comply with seismic requirements. (SDC=C)
     Mechanical and electrical components with an Ip=1.0 and either components are mounted 4 ft or less above a floor level and weight 400 lbs or less or flexible connections between components and the associated duct work, piping and conduit.
     Mechanical and Electrical components with an Ip= 1.0 and the components weight 200lbs or less or distribution systems weighing 5 lb/ft or less.
     Component Seismic Importance Factor:
     The component importance factor Ip shall be =1.5 if any of the following conditions apply:
     . The component is required to function for the life/safety purposes after an earthquake, including fire protection sprinkler systems.
     The component contains hazardous materials.
     The structure is in or attached to an occupancy category IV structure and it is needed for the continued operation of the facility.

I hereby certify that the structural plans submitted herewith are designed with the structural load carrying elements to resist the anticipated forces of the designated seismic zone in which the structure is located in accordance with Arkansas Code Annotated 12-80-101 et. seg.

Date: JANUARY 31, 2014

Casey Daniel, P.E.
Arkansas Registration No. 12371

GENERAL INFORMATION:

1. All columns shall be centered on grid lines unless noted otherwise.
2. All column footings shall be centered on columns unless noted otherwise.
3. All wall footings shall be centered on walls unless noted otherwise.
   3.All wall footings shall be centered on walls unless noted otherwise.
   3.All wall footings shall be centered on walls unless noted otherwise.
4. Unless otherwise noted or detailed, concrete pads for mechanical equipment shall be 4" thick (minimum) and reinforced with #3 @ 12" OC each way centered.
5. Substitution of expansion anchors for embedded anchors shall not be permitted, Unless Approved by Engineer.
6. Contractor is responsible for coordinating weights, size, and location of actual mechanical units ordered.
7. Unless Directed Otherwise By Geotechnical Engineer all fill material under structure shall be sandy clay or clayey sand exhibiting a liquid limit less than 35. Fill material shall be placed in loose lifts not to exceed 8" and compacted to a density of not less than 95% of Modified Proctor Maximum Dry Density (ASTM D-1557) at or slightly wet of optimum moisture content. In place moisture and density of each lift shall be determined by in-situ field tests prior to placing additional fill.
8. Permanent stability of the building and components is not provided until the erection is completed as shown on the contract drawings. Erection stability and temporary supports required for construction including guys, braces, and shoring are the responsibility of the contractor.
9. Testing:
   - A. Refer to specifications for specific requirements regarding sampling and testing.
   - B. Where sampling and testing requirements are omitted from the specifications sample and test concrete as follows:
     B1. Contractor shall engage a testing laboratory acceptable to the owner and Architect. Test conducted shall be paid for by the contractor.
     B2. Prepare field samples of 4 compressive test cylinders in accordance with ASTM C31 and one slump test for each class of concrete placed each day. Samples shall be taken not less than once per day for each 50 cubic yards of concrete. Test for cylinders shall be conducted one at 7 days and 2 at 28 days, with remaining cylinders retained for future testing in case of low test results.

CAST-IN-PLACE CONCRETE:

1 Minimum Concrete Compressive Strengths:
- A Footings f'c = 3,000 psi at 28 days. Max w/c=0.58
- B Interior Slabs-On-Grade f'c = 4,000 psi at 28 days. Max w/c=0.45
- C Ext Exposed Conc (Air Entrained) f'c = 3,500 psi at 28 days. Max w/c=0.48

2 Before concrete is placed reinforcement shall be secured against displacement within tolerances permitted in section 7.5.2 of ACI code.

3 Where lap splices are required of deformed bars and not specifically indicated on drawings, splices shall be class B splice.

4 When bars of different size are lap spliced, the splice length shall be based upon larger bar.

5 Concrete protective covering for reinforcement at surfaces not exposed directly to the ground shall be 3/4" for slabs, joists, and walls and 1 1/2" for beam stirrups and column ties or spirals. Do not "wet stick" dowels.

6 The following minimum concrete cover shall be provided:
- A Concrete cast against and permanently exposed to earth 3"
- B Concrete exposed to earth or weather - No. 6 thru No. 18: 2"
- C Concrete exposed to earth or weather - No. 5 and smaller: 1 1/2"
- D Concrete not exposed to earth or weather:
  slabs, walls, joists No.14 and No. 18: 1 1/2
  slabs, walls, joists No.11 and smaller: 3/4"

7 Location and sizes of openings, sleeves, etc. required for other trades must be verified by these trades before placing concrete.

8 Contractor is responsible for "means and methods" of construction and shall provide adequate shoring to prevent collapse or damage to structural elements during construction.

CONCRETE SLAB ON GRADE:

1 Provide a 4-inch clean medium-to-coarse gravel compacted drainage fill below all interior slabs-on-grade unless noted or detailed otherwise.
2 A 10-mil minimum polyethylene film vapor retarder shall be placed below all interior slabs-on-grade.
3 Welded wire fabric or deformed rebar shall be cut 3 inches on either side of a sawcut or construction control joint.
4 Provide bolsters or supports as needed to maintain reinforcement at proper location in slab.
5 Maximum water cement ratio shall not exceed the amount specified.
6 Saw cutting control joints shall proceed as soon as possible without chipping or spalling concrete. Lapsed time between casting and sawcutting shall not exceed 8 hours.

EXPANSION JOINT FILLER:

1 Non-extruding premolded material composed of fiberboard impregnated with asphalt conforming to the requirements of ASTM D1751.

EPOXY ANCHORS:

1 Where epoxy anchorage of threaded rods and rebar is approved by Engineer of record in concrete filled cells of cmu, use HILTI HY150 epoxy.
2 Where epoxy anchorage of threaded rods or rebar is approved by Engineer of record in cast-in-place concrete, use HILTI RE500.
3 Follow Manufacturers instructions for installation of holes.
4 Unless depth of embedment is not shown on contract drawings contact engineer of record for depth of embedment. As a minimum depth of embedment shall be indicated by manufacturer to develope full tensile strength of anchorage.
5 Where anchorage is required into hollow masonry contractor shall use HILTI HIT HY20 for masonry construction.

WATERSTOPS:

1 Provide flexible strip construction joint waterstop RX-101 as manufactured by volclay, or approved equal.
2 Follow manufacturers directions with respect to storage and application of WB-Adhesive.

LIGHT GAUGE STUDS & MISC FRAMING:

1 Light gauge structural studs shall be as follows:
- A. Exterior non-load bearing wall framing = See Schedule (600S162-43 @ 16" OC Min.)
- B. Interior non-load bearing partition studs = See Architectural drawings for size.
- C. For stud and track gages greater than and equal to 16GA, Fy=50ksi

2 All stud tracks shall match stud gage but not less than 18 ga. Tracks above or below glass curtain walls greater than 10 feet in height shall be a minimum of 16 ga.
3 All window and door openings in load bearing walls are to have double joist headers with double studs each end for bearing.
4 All walls shall have horizontal bridging spaced at intervals not exceeding 4'-0" OC maximum.
5 Non-load bearing walls shall be provided with slip-type support clips (deflection clips) to allow adjacent support deflection without damaging studs
6 For multi-story projects or projects with more than a single gage of stud, studs shall have ends color coded or size and gage permanently labeled on studs.
7 Load bearing studs shall be squarely seated against top and bottom tracks with gap not exceeding 1/8". Fasten both flanges of stud to top and bottom tracks.
8 Install supplementary framing, blocking, in stud framing as indicated in the Architectural drawings to support fixtures, equipment, services, casework, heavy trim, furnishings, and similar work requiring attachment to framing. If supplementary support is not indicated comply with stud manufactures recommendations and industry standards in each case.
9 Tracks bearing on concrete shall be attached with a minimum 0.145"□ pdf @ 8" OC or as noted on drawings.
10 At jambs, heads and sill of curtainwall window systems provideminimum 16GA support members unless detailed otherwise

STEEL JOIST AND JOIST GIRDERS:

1 Erect in accordance with AISC, SJI, OSHA and project specifications. Do not erect damaged joists. obtain corrective procedures from manufacturer. Do not field cut, drill or modify joists.
2 Provide and anchor bridging per SJI, OSHA, where shown, note and between pair of joist in any series.
3 Connections to supports:
-Weld to steel supports per SJI, unless noted. Anchor to other supports per SJI unless noted otherwise.
-Bolt members on column centerlines to steel supports using A325 bolts. Bolt diameter per SJI specifications. provide threaded studs where type of support would prevent through bolting.
4 Locate pipe and equipment hangers and other concentrated loads only where loads are shown on joist shop drawings. Attachment method as approved by joist supplier where pipes and equipment are suspended from joist bottom chord.
5 Slope bearings to provide full contact with supports.
6 Provide clip angles, plates, etc., shown shop welded to members. Coordinate with structural steel fabricator.

NON-COMPOSITE STEEL FLOOR DECK

1 See plan for size and required gage.
2 Steel deck shall be galvanized unless noted otherwise.
3 Minimum end bearing shall be 1 1/2".
4 Attach deck to supporting members with 4-welding washers minimum per panel and 4-#10 tek screw sidelap fasteners minimum per panel unless noted otherwise. At contractor's option power driven mechanical fasteners may be substituted for welds. Contractor shall submit manufacturer's data for size of fastener and spacing for approval.
5 Refer to the steel deck institute (SDI) standards for installation, storage, and all other construction practices.
6 Contractor shall place bolsters to support WWF reinforcement over each support (joist or beams). Bolsters shall provide 3/4" clearance from top of concrete.
7 Testing and Inspection: Unless specifically stated otherwise in specifications, contractor shall engage a testing laboratory acceptable to owner and Architect to provide inspections for proper attachment and installation.

STEEL ROOF DECK:

1 Deck type and minimum steel thickness as noted on plans.
2 The deck shall be fastened to supporting steel in accordance with the manufacturer's instructions. Minimum deck fastening shall be as follows: Five- 5/8" round puddle welds at ends of panel and at each intermediate support. Side lap seams to be fastened with #12 TEKS at 18" OC. Long panel sides at support angles to be fastened with 5/8" round puddle welds at 12" OC along full length of panel.

STRUCTURAL STEEL:

1 Steel shape and plate materials:
- W Shapes - ASTM A992 or A572 Grade 50
- Pipe - A53 - Grade B 35 ksi
- Round HSS - A500 Grade C 42 ksi
- Rectangular HSS - A500 Grade B 46 ksi
- Built-Up shapes - A572 Grade 50
- All Others - A36 or A572 Grade 50

2 The fabrication and erection of structural steel shall comply with "The Code Standard Practice for Steel Buildings and Bridges" as published by AISC
3 Unless detailed otherwise, connections shall comply with the typical connection details indicated on drawings. Where beam and reactions are shown and connection details are not indicated on the structural drawings provide a design for the connection and submit to the structural engineer of record for approval. Where typical connection details and beam end reactions are omitted beam connections shall be selected to support one half the total uniform load capacity indicated in "Allowable Uniform Load Tables" in part 2 of the AISC manual of steel construction, 9th edition.
4 Bolted Connections-
- A Unless detailed otherwise, all field connections shall be made using 3/4" diameter ASTM A325N high strength bolts. Washers shall be installed under nuts as snug tight connections.
- B Use slip critical (A325SC) bolts for bracing, moment connections, cantilevers, tension members and at oversized or slotted holes where the force on joint is parallel to long axis of slot. Use A325N elsewhere.
- C Where specifically identified on the drawings as slip critical all high strength bolts shall be tightened to comply with "slip critical" joints. Specifications are as follows:
  1. Installation of Alternate Design Bolts (Twist off Type)
  2. Direct tension Indicators
- D A490 and A325 high strength bolts shall not be reused that have been previously tightened.
- E Unless specifically noted as slip critical connections, all bolted connections shall be visually inspected to comply with snug tight conditions.

5 Welded Connections-
- A Welding of structural steel shall comply with the latest edition of AWS1.1 and all welds including field welds shall be made by certified welders using E70 electrodes and must meet CHARPY V-NOTCH requirements.
- B All fillet welds to be visually inspected. All full penetration welds shall be inspected by ultrasonic means or by other approved methods.
- C Contractor shall remove back-up bars and run-off tabs projecting into or obstructing installation of building materials.
- D Fabricator shall cope beams or otherwise provide weld access holes to allow proper installation and use of back-up bars at welded connections.

6 Steel erector is responsible for providing all necessary temporary bracing during erection.

STRUCTURAL ALLOWANCES

A / E REVISIONS:

1. The contractor shall allow for $25,000 (Twenty Five Thousand Dollars) for any revisions requested by the structural engineer during construction or review of shop drawings. Provide additional misc. steel angles, channels, wide flange shapes, HSS shapes, plates, rods, shear studs, rebar, concrete, bar joists, anchors, bolts, decking, grating, etc. as directed by the EOR for use in the field.
2. Allowance to include total cost of work including material costs, labor, installation, taxes, insurance, overhead & profit, and delivery.
3. Claims for extra costs associated with additional structural items will not be entertained until the entire allowance is first used.
4. At the project closeout, credit all unused amounts of the structural allowance to the Owner by Change Order Credit.

SPECIAL INSPECTION AND TESTING:

1. The contractor shall allow for $50,000 (Fifty Thousand Dollars) for Special Inspection Items and Testing Services. Refer to sheet S002 for an outline of required services. This will consist of on-site inspection and testing of slabs, foundations, concrete reinforcing, steel framing and connections, CMU walls, and other misc. structural items.
2. Items found to be deficient or not in compliance with the contract drawings shall be corrected at no cost to the Owner. Structural allowances shall not be used for correcting work.
3. The contractor shall pay for Special inspections and testing based on payment requests from the inspection and testing firm incorporating their standard hourly rates.
4. Claims for extra costs associated with testing and inspection will not be entertained until the entire allowance is first used.
5. At the project closeout, credit all unused amounts of the allowance to the Owner by Change Order Credit.

COMPOSITE STEEL FLOOR DECK:

1 See plan for size and required gage.
2 Steel deck shall be galvanized unless noted otherwise.
3 Provide pour stops, column closures, cover plates, and girder fillers per SDI standards as needed.
4 Minimum end bearing shall be 1.5".
5 Attach deck to supporting members with 4 - 5/8" puddle welds minimum per panel and 6-welded sidelap connections minimum per panel unless noted otherwise. At contractors option power driven mechanical fasteners may be substituted for welds. Contractor shall submit manufacturers data for size of fastener and spacing for approval.
6 Where required, use 3/4" ⌀ stud shear connectors as shown on the plans. Max spacing of studs shall be 36", and max spacing of deck attachments (including studs) to composite beams shall not exceed 16".
7 Refer to the steel deck institute (SDI) standards for installation, storage, and all other construction practices
8 Steel Studs shall have a finished length of (Deck rib height + 1.5")
9 Testing: Unless noted otherwise in specifications, contractor shall engage a testing laboratory acceptable to owner and Architect to provide a visual inspection of shear studs and to test field welded shear connectors in accordance with AWS D1.1 requirements, and inspect the deck for proper attachment and installation.
10 Unless noted otherwise on drawings, provide minimum temperative and shrinkage reinforcement of 6x6-W2.9xW2.9 WWF. WWF shall be supported on bolsters over each support. Reinforcing shall be 1" below top of concrete.

FUTURE CONSTRUCTION

This building has been designed for additional future construction. The design of the current lateral and gravity framing systems have taken into account future levels. The foundations are also designed to support these future levels. The current design accounts for the following levels:
1. GROUND FLOOR
2. 1ST FLOOR
3. 2ND FLOOR
4. 3RD FLOOR
5. ROOF

HAZARDOUS MATERIAL WARNING

Unexpected Discovery of Asbestos
For any previously untested building components suspected to contain asbestos and located in areas to be impacted by the work, samples will need to be collected of any materials found to determine the presence or absence of asbestos. The sampling must be performed by an AHERA accredited Asbestos Building Inspector. The Contractor, and the Contractor's Competent Person, Project Supervisor, and other required personnel shall meet with designated building personnel prior to beginning work at a safety pre-construction meeting to discuss details of site safety, including the preparation of any Accident Prevention Plans (APPs), emergency plans, Asbestos Hazard Abatement Plans (AHAPs) or any other applicable safety documents. Deficiencies of any supplied documents will be discussed and all documents must meet final approval prior to the commencement of work. The Contractor shall incur all costs, including all sampling/analytical costs to assure compliance with OSHA/EPA/State requirements related to regulations applicable to the work.

STRUCTURAL ABBREVIATIONS:

ADD	ADDENDUM
ADDL	ADDITIONAL
ALT	ALTERNATE
AB	ANCHOR BOLT
&	AND
ANG	ANGLE
ARCH	ARCHITECT
@	AT
BP	BASE PLATE
BM	BEAM
BMS	BEAMS
BRG	BEARING
BOT	BOTTOM
B/	BOTTOM OF/BACK OF
BRDG	BRIDGING
BLDG	BUILDING
CIP	CAST IN PLACE
CLG	CEILING
C OR CL	CENTER OR CENTERLINE
C/C	CENTER TO CENTER
CLR	CLEAR
COL	COLUMN
CP	COMPLETE PENETRATION
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONN	CONNECTION
CONST	CONSTRUCTION
CJ	CONTROL JOINT
CONT	CONTINUOUS
CONTR	CONTRACTOR
CWA	COORDINATE WITH ARCHITECT
DBA	DEFORMED BAR ANCHOR
DBE	BECK BEARING ELEVATION
DL	DEAD LOAD
DK	DECK
DEP	DEPRESSED
DET	DETAIL
DIAG	DIAGONAL
DIA OR Ø	DIAMETER
DIM	DIMENSION
DWLS	DOWELS
DN	DOWN
DWG	DRAWINGS
DP	DRILLED PIER
EA	EACH
EE	EACH END
EF	EACH FACE
ES	EACH SIDE
EW	EACH WAY
ELECT	ELECTRICAL
EL	ELEVATION
EQ	EQUAL
EJ	EXPANSION JOINT
EXT	EXTERIOR
FF	FAR FACE
FIN	FINISH
FS	FAR SIDE
FLR	FLOOR
FTG	FOOTING
FDN	FOUNDATION
FRMG	FRAMING
GALV	GALVANIZED
GA	GAUGE
HT	HEIGHT
HP	HIGH POINT
HORIZ	HORIZONTAL
HEF	HORIZONTAL EA FACE
IF	INSIDE FACE
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
JT	JOINT
JST	JOIST
K OR k	KIP= 1,000 lbs
LB	POUND
LT WT	LIGHT WEIGHT
LTL	LINTEL
LL	LIVE LOAD
LONG	LONGITUDINAL
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LW	LONG WAY
LP	LOW POINT
MFR	MANUFACTURER
MK	MARK
MSRY	MASONRY
MBA	MECHANICAL BAR ANCHOR
MBM	METAL BUILDING MANUFACTURER
MBS	MECHANICAL BAR SPLICE
MO	MASONRY OPENINGS
MTL	MATERIAL
MIN	MINIMUM
MISC	MISCELLANEOUS
NF	NEAR FACE
NS	NEAR SIDE
NML WT	NORMAL WEIGHT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OPP H	OPPOSITE HAND
OF	OUTSIDE FACE
PL	PLATE
PLBG	PLUMBING
PJF	PRE-MOLDED JOINT FILLER
PP	PARTIAL PENETRATION
RAD	RADIUS
RECT	RECTANGULAR
REF	REFERENCE
RE	REFER TO
REINF	REINFORCING
REQ'D	REQUIRED
REV	REVISION
SCHED	SCHEDULE
SECT	SECTION
SW	SHORT WAY
SIM	SIMILAR
SL	SLAB
SOG	SLAB ON GRADE
SPA	SPACE, SPACING OR SPACES
SPECS	SPECIFICATIONS
SQ	SQUARE
STD	STANDARD
STL	STEEL
SDI	STEEL DECK INSTITUTE
SJI	STEEL JOIST INSTITUTE
STRUCT	STRUCTURE OT STRUCTURAL
SUPPT	SUPPORT
SYMM	SYMMETRICAL
SYP	SOUTHERN YELLOW PINE
THK	THICKNESS
T	TOP
T/	TOP OF
T/C	TOP OF CONCRETE
T/F	TOP OF FOOTING
T/J	TOP OF JOIST
T/L	TOP OF LEDGE
T/P	TOP OF PILASTER
T/SL	TOP OF SLAB
T/SOG	TOP OF SLAB ON GRADE
T/S	TOP OF STRUCTURAL STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VB	VAPOR BARRIER
VERT	VERTICAL
VEF	VERTICAL EACH FACE
WB	WIND BRACE
WWF	WELDED WIRE FABRIC
WF	WIDE FLANGE
W/	WITH
W/O	WITHOUT
WP	WORK POINT
WS	WATER STOP
WT	WEIGHT

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12371
CASEY DANIEL
1/31/14

CERTIFICATE OF AUTHORIZATION
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER

REC
ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE: GENERAL NOTES

PROJECT TITLE: EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

BUILDING NUMBER: 172
CHECKED: CDD
DRAWN: MWO
LOCATION: C.A.V.H.S., LR DIVISION

DATE: 01 FEBRUARY 2014
VA PROJECT NUMBER: VA 256 - P - 1272
TFCO PROJECT NUMBER: 84410
DRAWING NO.: S001
Dwg 15 of 167

Office of Facilities
DEPARTMENT OF VETERANS AFFAIRS

2006 IBC SPECIAL INSPECTIONS			INSPECTION FREQUENCY *	
CONST. TYPE		INSPECTION TASK	CONTINUOUS	PERIODIC
SOILS RE: 1704.7	1.	Verify materials below footings are adequate to achieve the design bearing capacity.	—	X
	2.	Verify excavations are extended to proper depth and have reached proper material.	—	X
	3.	Perform classification and testing of controlled fill materials.	—	X
	4.	Verify use of proper materials, densities and lift thickness during placemant and compaction of controlled fill.	X	—
	5.	Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly.	—	X
CONCRETE RE: 1704.4	1.	Inspection of reinforcing steel and placement.	—	X
	2.	Inspection of reinforcing steel welding in accordance with table 1704.3, item 5B.	—	X
	3.	Inspect bolts and embeds to be installed in concrete prior to and during placement of concrete.	X	—
	4.	Verifying use of required design mix.	—	X
	5.	Sampling fresh concrete and performing slump, air content and determining the temperature of fresh concrete at the time of making specimens for strength tests.	X	—
	6.	Inspection of concrete and shotcrete placement for proper application techniques	X	—
	7.	Inspection for maintenance of specified curing temperature and techniques	—	X
	8.	Inspect formwork for shape, location and dimensions of the concrete member being formed.	—	X
	9.	Inspection of anchors installed in hardened concrete.	—	X
STRUCTURAL STEEL RE: 1704.3	1.	Material verification of high-strength bolts, nuts and washers. A. Identification of markings to conform to ASTM standards specified in the approved construction documents.	—	X
		B. Manufacturer's certificate of compliance is required.	—	X
	2.	Inspection of high strength bolting. A. Bearing type connections, snug tight & slip critical.	—	X
	3.	Material verification of structural steel. A. Identification markings to conform to ASTM standards specified in the approved construction documents.	—	X
		B. Manufacturer's certificate of compliance required.	—	X
	4.	Material verification of weld filler material. A. Identification markings to conform to ASTM standards specified in the approved construction documents.	—	X
		B. Manufacturer's certificate of compliance required.	—	X
	4.	Inspection of welding. A. Structural steel:		
		1. Complete & partial penetration groove welds.	X	—
		2. Multi-pass fillet welds.	X	—
		3. Single-pass fillet welds > 5/16".	X	—
		4. Single-pass fillet welds < 5/16".	—	X
		5. Single-pass fillet welds < 5/16".	—	X
		B. Reinforcing steel:		
		1. Verification of weldability of reinforcing steel other than ASTM A706	—	X
		2. Shear Reinforcement.	X	
		3. Other Reinforcing steel.	—	X
	6.	Inspection of steel frame joint details in compliance with approved construction documents: A. Details such as braces and stiffeners. B. Member Locations. C. Application of joint details at each connection.	—	X
MASONRY RE: 1704.3	1.	As masonry construction begins, the following shall be verified to ensure compliance: A. Proportions of site prepared mortar.	—	X
		A. Construction of mortar joints.	—	X
		C. Location of reinforcement and connectors.	—	X
	2.	During construction the inspection program shall verify: A. Size and location of structural elements:	—	X
		B. Type, size and location of anchors including other details of anchorage of masonry to structural members, frames or other construction.	—	X
		C. Specified size, grade and type of reinforcement.	—	X
		D. Welding of reinforcing bars.	X	—
		E. Protection of masonry during cold (Temperature below 40° F) or hot wather (Temperature above 90°).	—	X
	3.	Prior to grouting, the following shall be verified to ensure compliance: A. Grout space is clean.	—	X
		B. Placement of reinforcement and connectors.	—	X
		C. Proportions of site-prepared grout.	—	X
		D. Construction of mortar joints.	—	X
	4.	Grout placement shall be verified to ensure compliance with code and construction document provisions	X	—
	5.	Preparation of any grout specimens, mortar specimens and/or prisms shall be observed.	X	—
	6.	Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	—	X
PIER FOUNDATIONS RE: 1704.9	1.	Observe drilling operations and maintain complete accurate records for each pier.	X	—
	2.	Verify placement locations and plumbness, confirm pier diameters, lengths, embedment into bedrock and adequate end bearing strata capacity.	X	—
	3.	For concrete piers, perform additional inspections in accordance with section 1704.5.		
METAL DECK	1.	Deck attachment per general and plan notes on construction documents.	—	X
COMPONENT ANCHORAGE RE: 1704	1.	Installation of shallow expansion, chemical and cast in place anchors in masonry and concrete.	—	X

Special inspection, continuous: The full time observation of work requires special inspection by an approved special inspector who is present in the area where the work is being performed.

Special inspection, periodic: The part time or intermittent observation of work requires special inspection by an approved special inspector who is present in the area where the work has been or is being performed and the completion of the work.

SPECIAL INSPECTIONS:

Provide special inspections for the following items per section 1704 of the IBC and section 014000 of the project specifications. The approved independant testing agency's individual special inspector shall demonstrate competence for inspection of particular type of construction of operation requiring special inspection and shall meet the minimum special inspector qualifications in table 1704.1 of the 2006 IBC. The special inspector shall bring non-conforming items to the immediate attention of the contractor in writing and note all such items in the reports. Any unresolved item about to be covered by the work shall be brought to the attention of the contractor's and owner's construction manager's attention immediately. The special inspector shall furnish reports, tests and inspections directly to the engineer of record, the owner's construction manager and the contractor. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in comformance with the approved plans and specifications. The contractor is responsible for notifying the special inspection agency regarding individual inspection for items listed on the schedule and as noted on the building department approved plans. Adequate notice and access to the approved plans shall be provided so that the special inspector has time to become familiar with the project.

STRUCTURAL OBSERVATION REQUIREMENTS:

1. A representative of the engineer of record will perform structural observation of the elements and connections of the structural system at critical stages of construction and the completed structure for general conformance with the approved plans and specifications. Structural observation does not waive the responsibility for the inspections required of the building official or the special inspectors.
2. A pre-construction meeting shall be held and attended by the design architect or engineer, the engineer who will perform the structural observation, the contractor and affected sub-contractors and the special inspectors.
3. The general contractor shall notify the structural engineer of record at least 48 hrs. prior to completing construction operations that require structural observation by calling (501) 664-7575 to schedule a site visit.
4. At a minimum, the following significant construction stages require a site visit and an observation report from the structural observer.

Construction Stages

1. At the first day of pier drilling and installation.
2. After installation of concrete grade beam reinforcing and before concrete placement.
3. After erection of structural steel and before metal deck replacement.
4. After installation of metal roof deck and before roof installation.

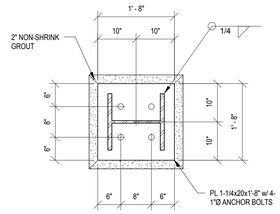
SUBMITTAL PROCEDURES:

1. Transmit submittals in advance of related construction activities to avoid unnecessary delay. The structural engineer of record for this project may withhold action on a submittal requiring coordination with other submittal until all related submittals are received.
2. Submit one electronic portable document format (.pdf) copy through the architect for the "Shop Drawing" review. The electronic copy will be marked up by the structural engineer of record. One copy will be kept by the structural engineer of record and an additional copy will be returned to the architect. The architect will keep one copy and return a copy to the contractor. The contractor will make additional copies as required for his needs.
3. Action stamp: The structural engineer of record will stamp each submittal with a uniform action stamp to indicate the action taken in one of five options.
   - -Permitted: Work covered by the submittal generally complies with the requirements of the contract documents.
   - -Rejected: Work covered by the submittal is unacceptable and may not proceed.
   - -Submit Specified Item: Comply with the content of the specifications for the indicated item.
   - -Permitted & Corrections Noted: Work covered by the submittal may proceed provided it complies with the notations or corrections on the submittal and requirements of the contract documents.
   - -Revise and Resubmit: Work covered by the submittal does not comply with the requirements of the contract documents and must be changed to comply and resubmit the entire submittal.
4. Contractor shall comply with Division One Section - "Submittals."
5. No reproduction of construction documents are acceptable for use as shop drawings.

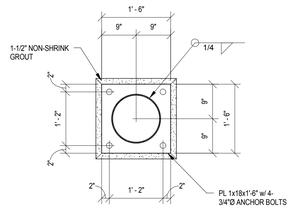
Component & Cladding Wind Pressures per ASCE 7-05 (90 MPH)

	Roof Pressures (psf)			Wall Pressures (psf)	
Area (sq. ft.)	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
≤10	+10, -38	+10, -38	+10, -60	+22, -24	+22, -29
25	+9, -37	+9, -37	+9, -44	+21, -23	+21, -27
50	+9, -37	+9, -37	+9, -32	+20, -22	+20, -25
75	+8, -36	+8, -36	+8, -25	+19, -21	+19, -24
≥100	+8, -36	+8, -36	+8, -20	+19, -21	+19, -23
	Dim "a" = 9'-0"			Dim "a" = 9'-0"	

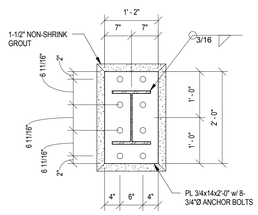
Notes:
1. Wind loads are generated using ASCE 7 Method 2 - Analytical Procedure.
2. Refer to ASCE 7 Figures 6-11 through 6-17 for additional information and wall/roof diagrams.
3. Pressures listed are gross pressures. Dead weights of roofing materials have not been subtracted.



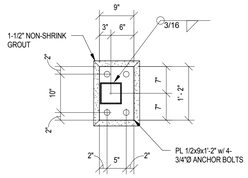
BASEPLATE B1
3/4" = 1'-0"



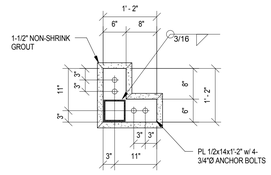
BASEPLATE B2
3/4" = 1'-0"



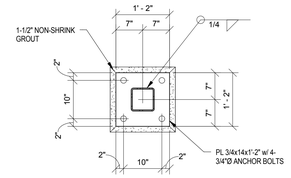
BASEPLATE B3
3/4" = 1'-0"



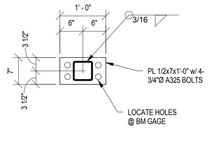
BASEPLATE B4
3/4" = 1'-0"



BASEPLATE B5
3/4" = 1'-0"



BASEPLATE B6
3/4" = 1'-0"



BASEPLATE B7
3/4" = 1'-0"

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 12371 CASEY DANIEL
1/31/14

CERTIFICATE OF AUTHORIZATION Robbins Engineering PLLC No. 1083 ARKANSAS ENGINEER

REC ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE: INSPECTION NOTES & BASEPLATE DETAILS

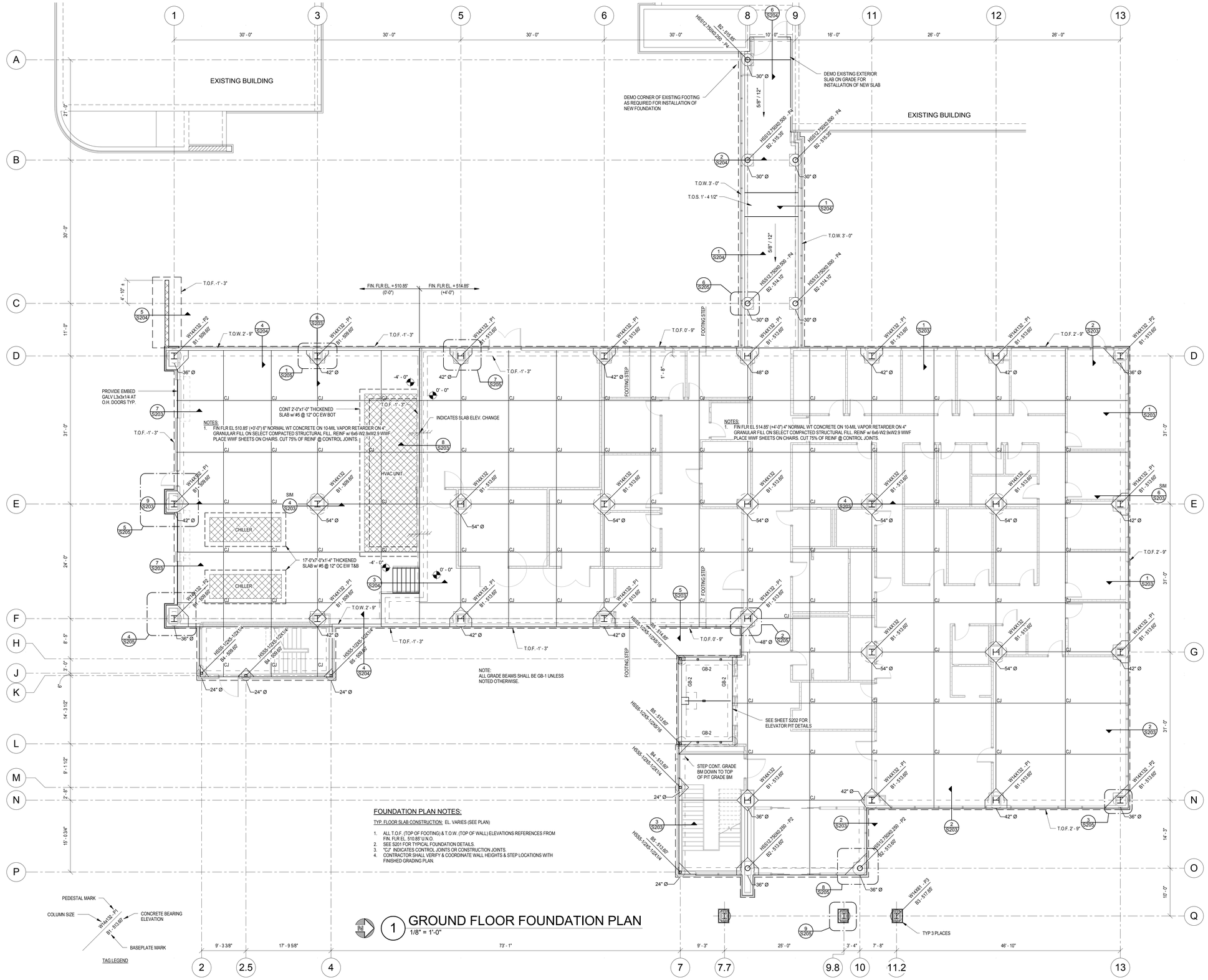
PROJECT TITLE: EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

BUILDING NUMBER: 172 | CHECKED: CDD | DRAWN: MWO

LOCATION: C.A.V.H.S., LR DIVISION

DATE: 01 FEBRUARY 2014
VA PROJECT NUMBER: VA 256 - P - 1272
TFCG PROJECT NUMBER: 84410
DRAWING NO.: S002
Dwg 16 of 167

Office of Facilities
DEPARTMENT OF VETERANS AFFAIRS



FOUNDATION PLAN NOTES:

TYP. FLOOR SLAB CONSTRUCTION: EL. VARIES (SEE PLAN)

1. ALL T.O.F. (TOP OF FOOTING) & T.O.W. (TOP OF WALL) ELEVATIONS REFERENCES FROM FIN. FLR EL. 510.85' U.N.O.
2. SEE S201 FOR TYPICAL FOUNDATION DETAILS.
3. "CJ" INDICATES CONTROL JOINTS OR CONSTRUCTION JOINTS.
4. CONTRACTOR SHALL VERIFY & COORDINATE WALL HEIGHTS & STEP LOCATIONS WITH FINISHED GRADING PLAN.

PEDESTAL MARK
COLUMN SIZE — W14X132 - P1 — B1 - 513.85'
CONCRETE BEARING ELEVATION
BASEPLATE MARK
TAG LEGEND

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER 12371 CASEY DANIEL
1/31/14

Robbins Engineering PLLC No. 1083 CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER

ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

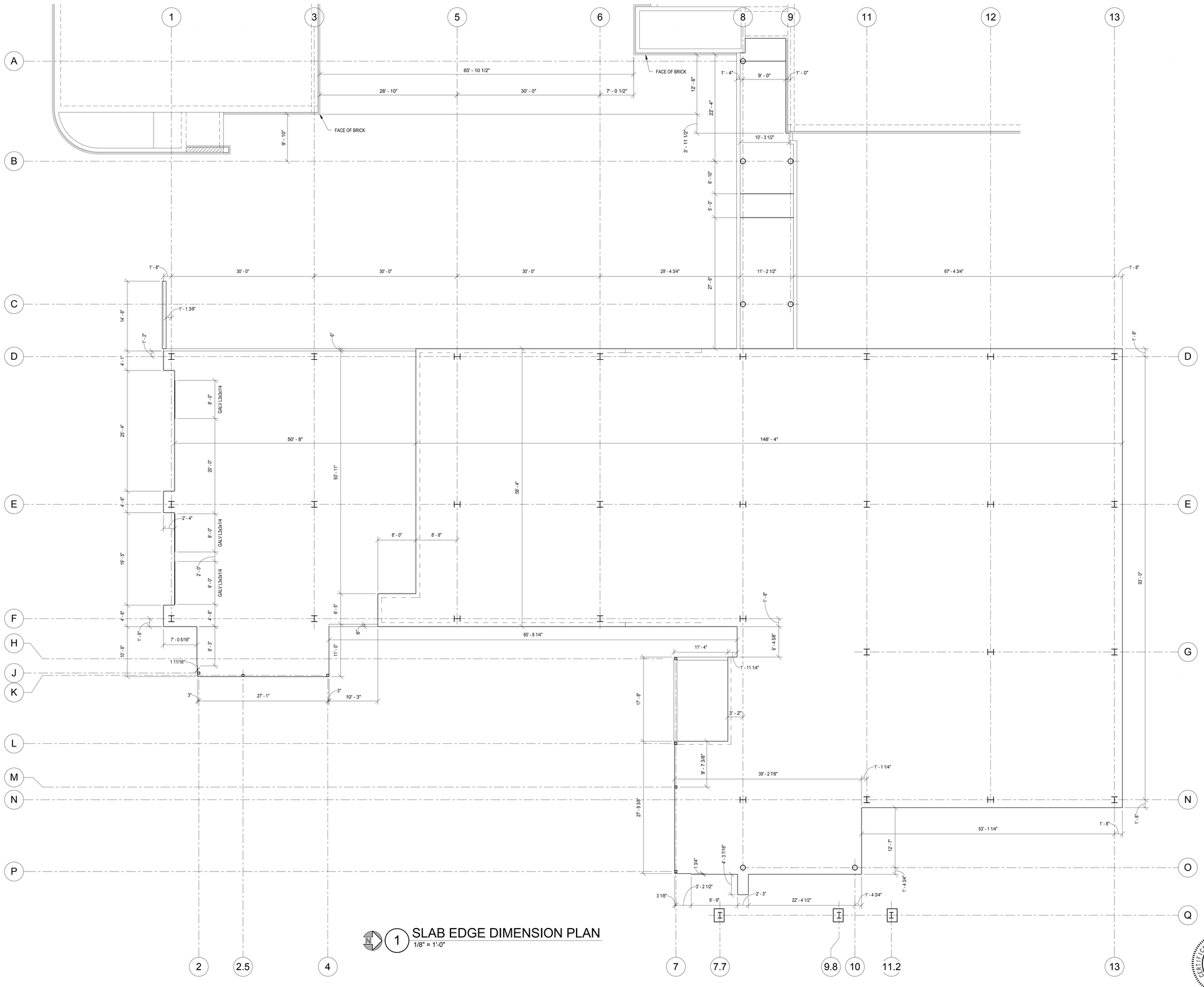
DRAWING TITLE: FOUNDATION PLAN

PROJECT TITLE: EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

BUILDING NUMBER: 172
CHECKED: CDD
DRAWN: MWO
LOCATION: C.A.V.H.S., LR DIVISION

DATE: 01 FEBRUARY 2014
VA PROJECT NUMBER: VA 256 - P - 1272
TFCG PROJECT NUMBER: 84410
DRAWING NO.: S101
Dwg 17 of 167

Office of Facilities
DEPARTMENT OF VETERANS AFFAIRS



1 SLAB EDGE DIMENSION PLAN
1/8" = 1'-0"

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
SLAB EDGE DIMENSION PLAN

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

DATE: 01 FEBRUARY 2014
VA PROJECT NUMBER: VA 256 - P - 1272
TFCG PROJECT NUMBER: 84410

BUILDING NUMBER: 172
CHECKED: CDD
DRAWN: MWO

LOCATION: C.A.V.H.S., LR DIVISION

DRAWING NO.: S102
Dwg 18 of 167

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12371
CASEY DANIEL
1/31/14

CERTIFICATE OF AUTHORIZATION
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER

REC
ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

Office of Facilities
DEPARTMENT OF VETERANS AFFAIRS

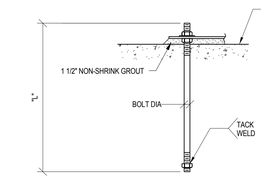
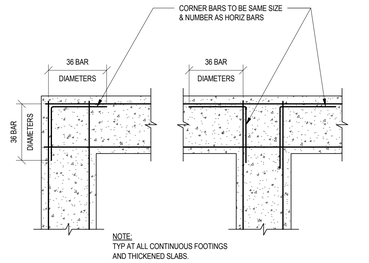


TABLE 1 - SCHEDULE		
BOLT DIA	"L"	PROJ
3/4"	1'-6"	4"
1"	1'-9"	5"

NOTES:
1. OMIT NON SHRINK GROUT ON PRE-ENGINEERED METAL BUILDINGS AND WHERE NOTED ON DRAWINGS.
2. AT CONTRACTOR'S OPTION LEVELING NUT UNDER BASE PLATE MAY BE OMITTED WHERE STEEL SHIM PACKS ARE USED.
3. USE F1554 GR36 THREADED ROD W/ NUT AT BOTTOM.
4. WHERE OVERSIZED OR SLOTTED HOLES ARE USED PROVIDE PLATE WASHERS AS INDICATED IN TABLE 2. CIRCULAR OR SQUARE WASHERS MEETING MIN SIZE REQUIREMENTS.

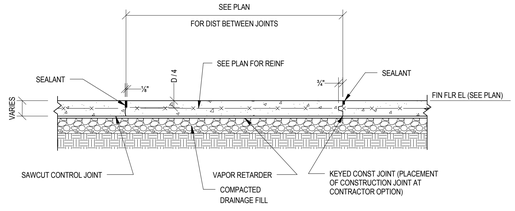
TABLE 2 - HOLE SIZE IN BASE PL & WASHER REQUIREMENTS			
BOLT DIA	MAX HOLE DIAMETER BASE PL	MIN WASHER SIZE	MIN WASHER THICKNESS
3/4"	1 5/16"	2"	1/4"
7/8"	1 9/16"	2 1/2"	5/16"
1"	1 13/16"	3"	3/8"
1 1/4"	2 1/16"	3"	1/2"

1 TYPICAL ANCHOR BOLT DETAIL
3/4" = 1'-0"



PLAN VIEW @ CORNER PLAN VIEW @ INTERSECTION

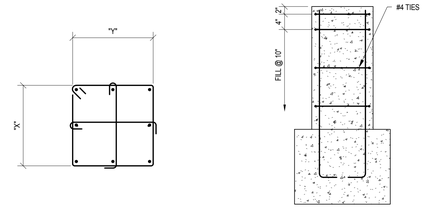
2 TYPICAL CORNER BAR DETAIL
3/4" = 1'-0"



NOTES:
1. SAWCUT CONC SLAB AS SOON AS PROCEDURE CAN BE COMPLETED WITHOUT SPALLING OR DAMAGING EDGE. SAWCUTTING MUST BE COMPLETED WITHIN 8 HOURS OF CONCRETE PLACEMENT.
2. REINFORCEMENT MUST STOP 3" EA SIDE OF JOINT.
3. CUT 75% OF REINFORCING AT EA JOINT.
4. CONTRACTOR MAY PROVIDE EITHER SAWCUT CONTROL JOINT OR KEYED CONSTRUCTION JOINT WHERE "CJ" IS SHOWN ON THE DRAWINGS.
5. COORDINATE EXACT LOCATION OF JOINTS WHERE ARCH DRAWINGS INDICATE CERAMIC TILE, STONE FLOORING OR TERAZZO.

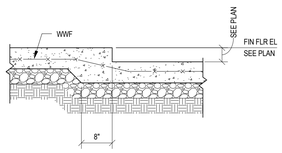
3 TYPICAL SOG CONTROL JOINT DETAIL
3/4" = 1'-0"

PEDESTAL REINFORCING SCHEDULE			
MARK	SIZE (X) x (Y)	VERT REINF	TIES
P1	28"x28"	8-#6	#4 @ 10" OC
P2	24"x24"	8-#6	#4 @ 10" OC
P3	18"x22"	8-#6	#4 @ 10" OC
P4	18"x18"	8-#6	#4 @ 10" OC

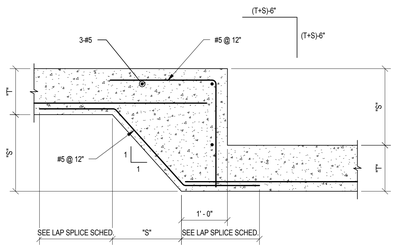


PEDESTAL PLAN TIE PLACEMENT

4 TYPICAL PEDESTAL REINFORCING SCHEDULE
3/4" = 1'-0"

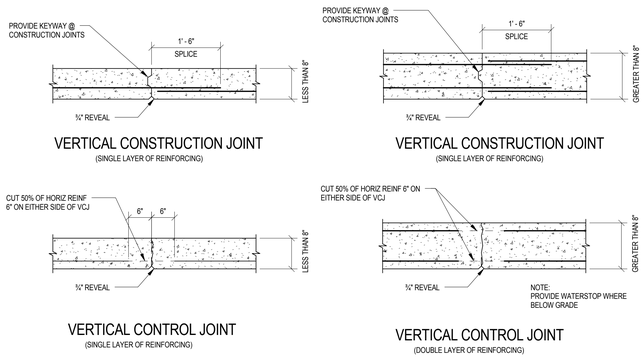


5 TYPICAL RECESSED SLAB DETAIL
3/4" = 1'-0"

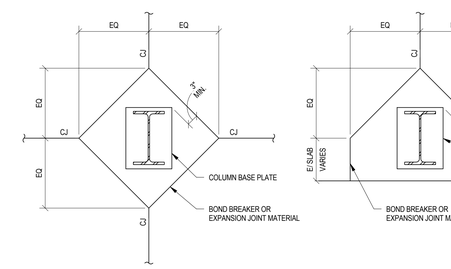


NOTE:
1. CONTRACTOR SHALL COORDINATE PROPOSED FINISHED GRADE ELEVATION W/ PROPOSED TOP OF FOOTING ELEVATION TO VERIFY ADEQUATE CLEARANCE.

6 TYPICAL STEP FOOTING DETAIL
3/4" = 1'-0"



7 TYPICAL VERTICAL WALL CONSTRUCTION/CONTROL JOINT (VCJ)
3/4" = 1'-0"

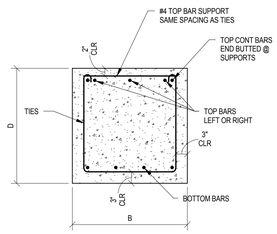


DIAMOND PENTAGON

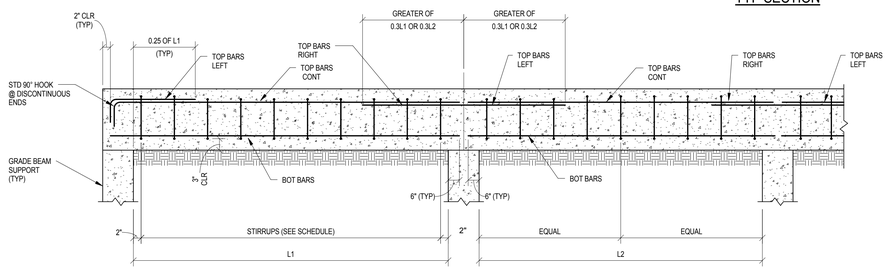
8 TYPICAL COL. ISOLATION JOINTS
3/4" = 1'-0"

BEAM REINFORCING SCHEDULE										
MARK	SIZE (INCHES) B	SIZE (INCHES) D	BOTTOM BARS	TOP BARS CONTINUOUS	TOP BARS LEFT	TOP BARS RIGHT	STIRRUPS SIZE	STIRRUPS CRSI TYPE	STIRRUPS SPACING EA END	REMARKS
GB-1	24	30	4-#6	2-#6	3-#6	3-#6	#4		4 sp @ 6"	FILL @ 18"
GB-2	24	24	4-#5	4-#5	NA	NA	#4		4 sp @ 6"	FILL @ 18"

BEAMS SCHED. AS VIWED FROM BOTTOM OR RIGHT HAND SIDE OF SHEET FOR LEFT & RIGHT.

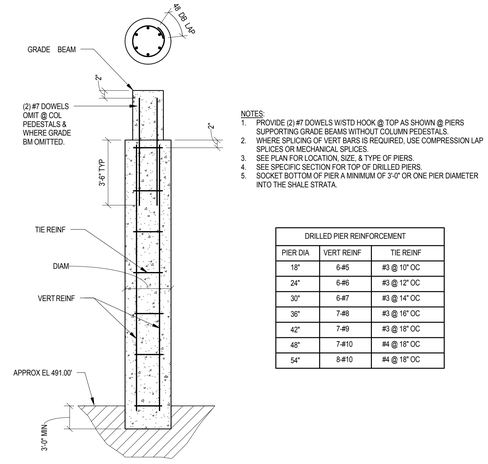


TYP SECTION



END SPAN INTERIOR SPAN

9 MULTIPLE SPAN GRADE BM REINF DIAGRAM
3/4" = 1'-0"

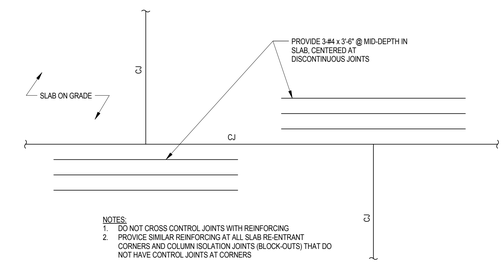


NOTES:
1. PROVIDE (2) #7 DOWELS W/STD HOOK @ TOP AS SHOWN @ PIERS SUPPORTING GRADE BEAMS WITHOUT COLUMN PEDESTALS.
2. WHERE SPLICING OF VERT BARS IS REQUIRED, USE COMPRESSION LAP SPLICES OR MECHANICAL SPLICES.
3. SEE PLAN FOR LOCATION, SIZE, & TYPE OF PIERS.
4. SEE SPECIFIC SECTION FOR TOP OF DRILLED PIERS.
5. SOCKET BOTTOM OF PIER A MINIMUM OF 3'-0" OR ONE PIER DIAMETER INTO THE SHALE STRATA.

DRILLED PIER REINFORCEMENT		
PIER DIA	VERT REINF	TIE REINF
18"	6-#5	#3 @ 10" OC
24"	6-#6	#3 @ 12" OC
30"	6-#7	#3 @ 14" OC
36"	7-#8	#3 @ 16" OC
42"	7-#9	#3 @ 18" OC
48"	7-#10	#4 @ 18" OC
54"	8-#10	#4 @ 18" OC

STRAIGHT SHAFT DRILLED PIER

10 TYPICAL DRILLED PIER SECHDULE
3/4" = 1'-0"



NOTES:
1. DO NOT CROSS CONTROL JOINTS WITH REINFORCING
2. PROVICE SIMILAR REINFORCING AT ALL SLAB RE-ENTRANT CORNERS AND COLUMN ISOLATION JOINTS (BLOCK-OUTS) THAT DO NOT HAVE CONTROL JOINTS AT CORNERS

11 TYPICAL REINF. @ JOINTS
3/4" = 1'-0"

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 12371 CASEY DANIEL
1/31/14

CERTIFICATE OF AUTHORIZATION Robbins Engineering PLLC No. 1083 ARKANSAS ENGINEER

REC ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE: TYP FOUNDATION DETAILS

PROJECT TITLE: EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

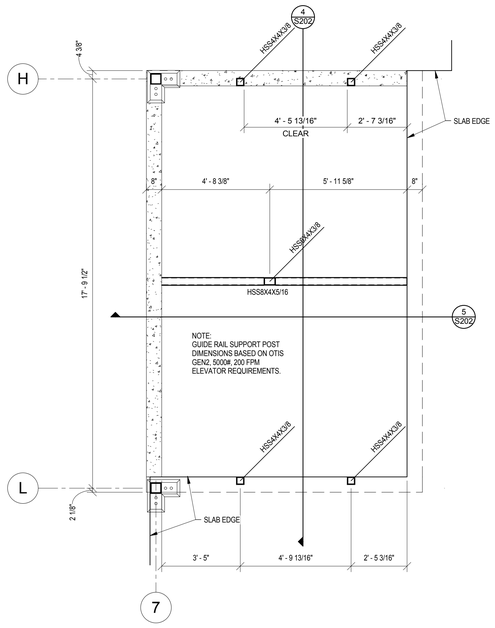
DATE: 01 FEBRUARY 2014
VA PROJECT NUMBER: VA 256 - P - 1272
TFCG PROJECT NUMBER: 84410

BUILDING NUMBER: 172
CHECKED: CDD
DRAWN: MWO

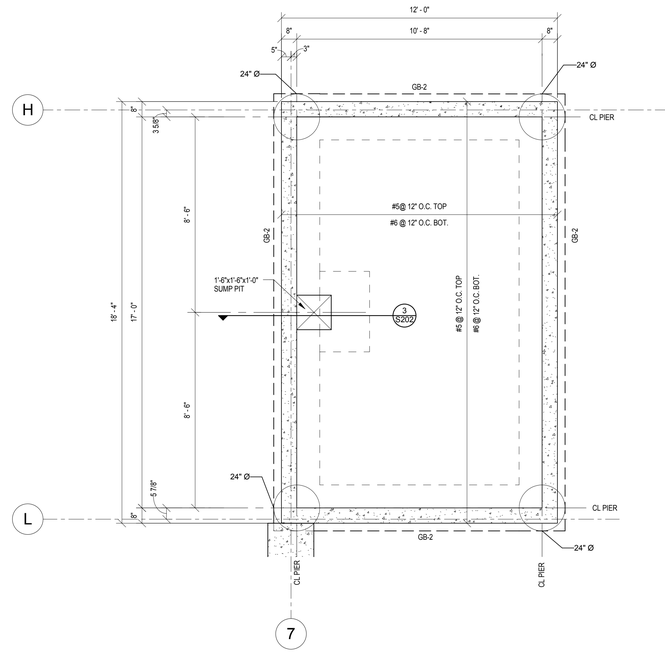
LOCATION: C.A.V.H.S., LR DIVISION

DRAWING NO.: S201
Dwg 19 of 167

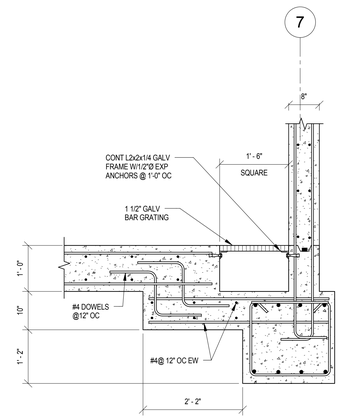
Office of Facilities
DEPARTMENT OF VETERANS AFFAIRS



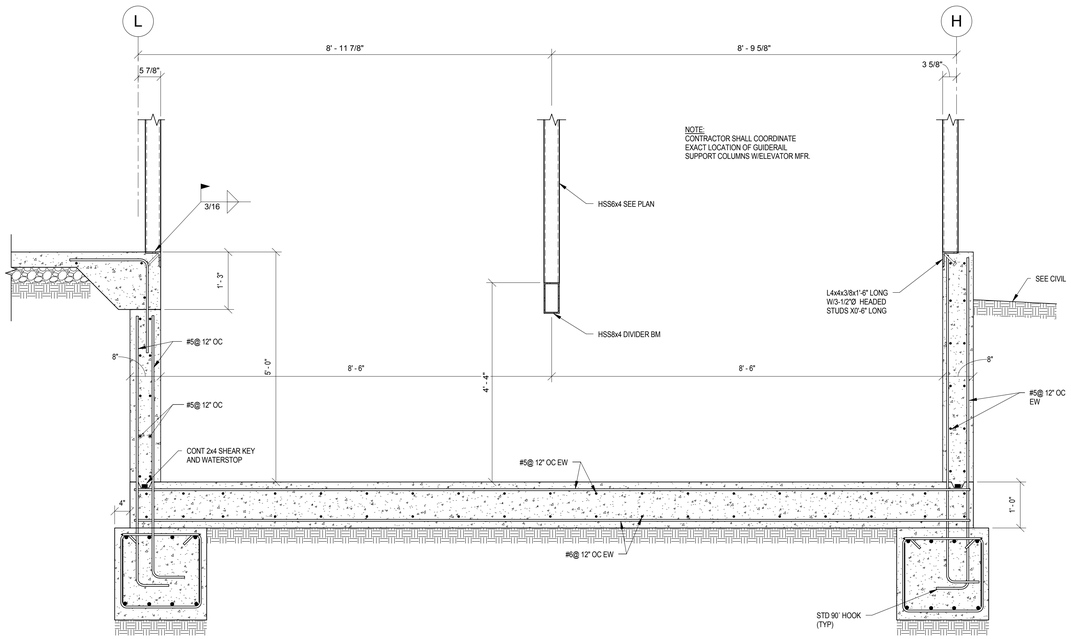
N 1 ENLARGED ELEV PIT PLAN
3/8" = 1'-0"



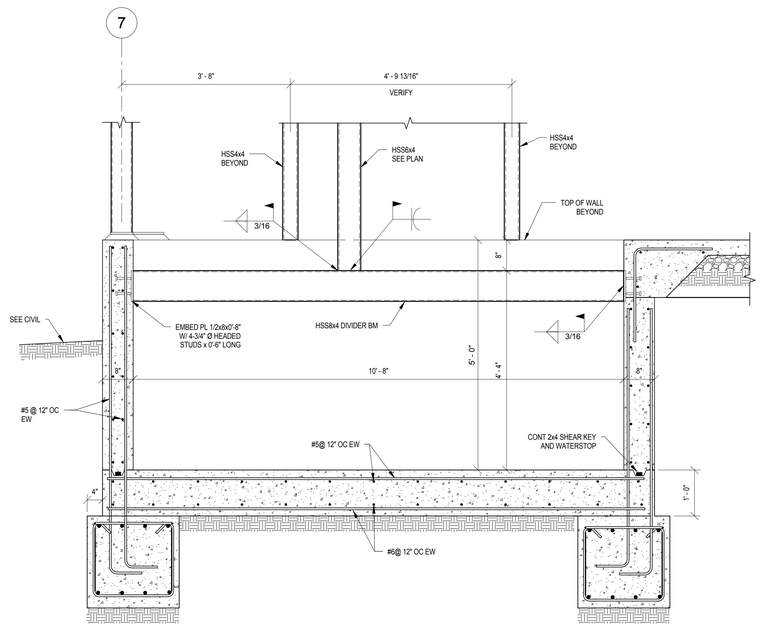
N 2 ENLARGED ELEV PIT REINF PLAN
3/8" = 1'-0"



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



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



5 SECTION
3/4" = 1'-0"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12371
CASEY DANIEL
1/31/14

CERTIFICATE OF AUTHORIZATION
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER

REC
ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
ELEVATOR PIT DETAILS

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

BUILDING NUMBER 172 | CHECKED CDD | DRAWN MWO

LOCATION
C.A.V.H.S., LR DIVISION

DATE
01 FEBRUARY 2014

VA PROJECT NUMBER
VA 256 - P - 1272

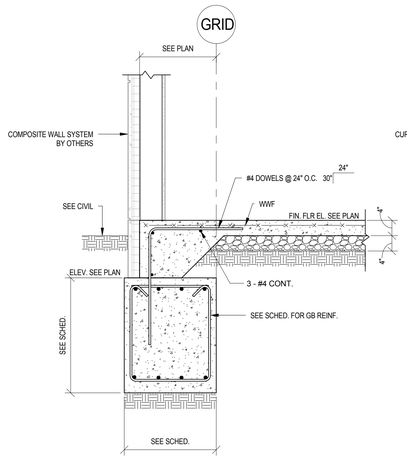
TFCG PROJECT NUMBER
84410

DRAWING NO.
S202

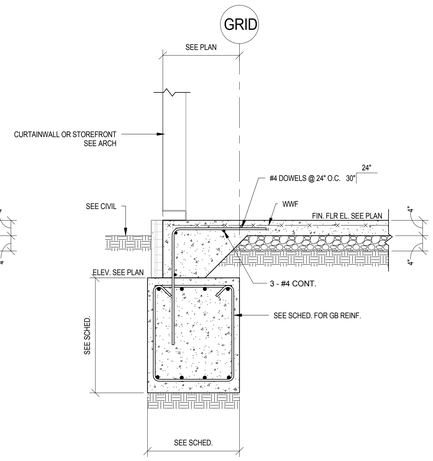
Dwg 20 of 167

Office of Facilities

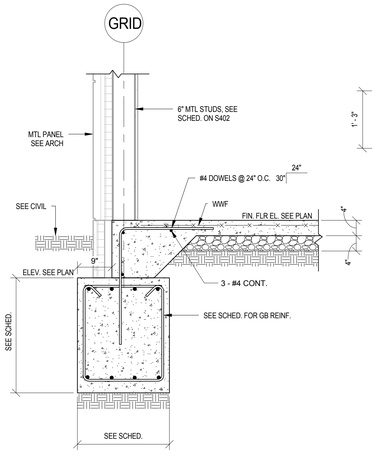
DEPARTMENT OF VETERANS AFFAIRS



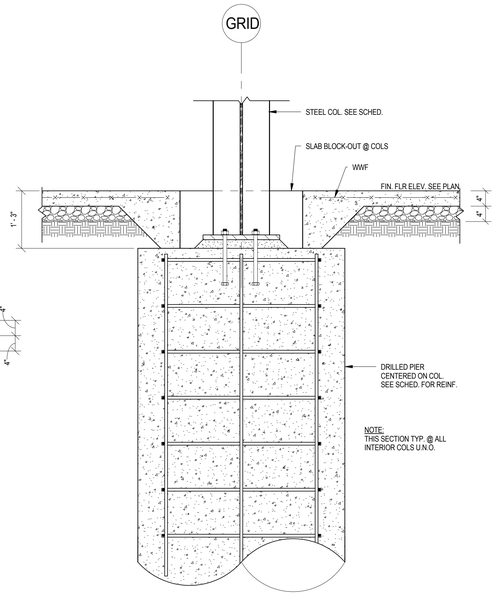
1 SECTION
3/4" = 1'-0"



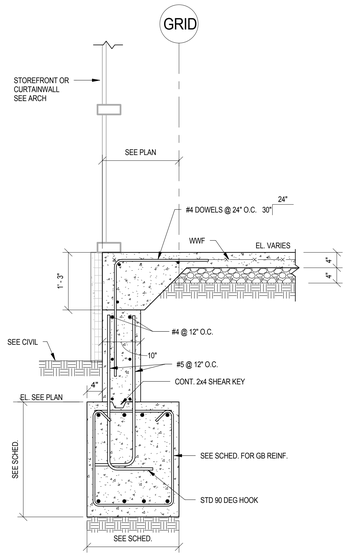
2 SECTION
3/4" = 1'-0"



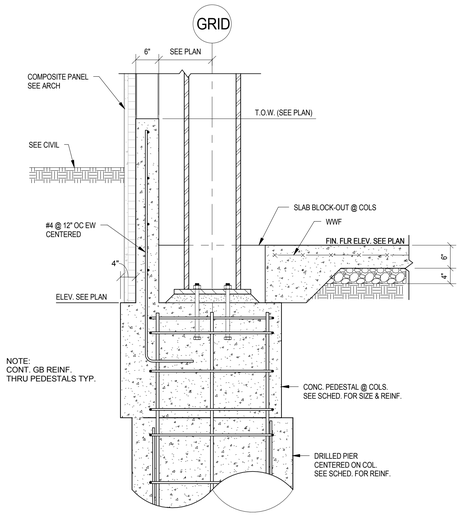
3 SECTION
3/4" = 1'-0"



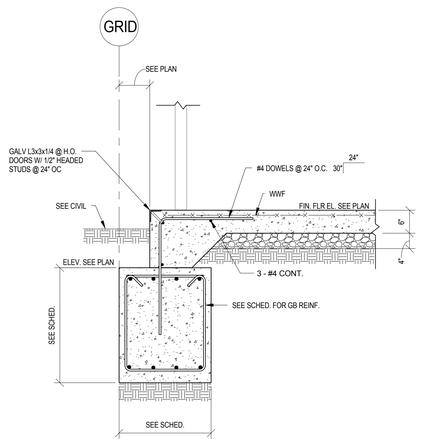
4 SECTION
3/4" = 1'-0"



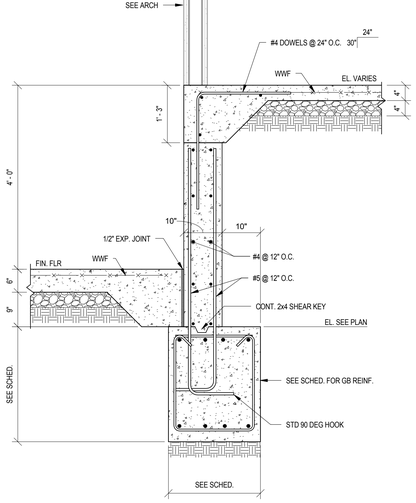
5 SECTION
3/4" = 1'-0"



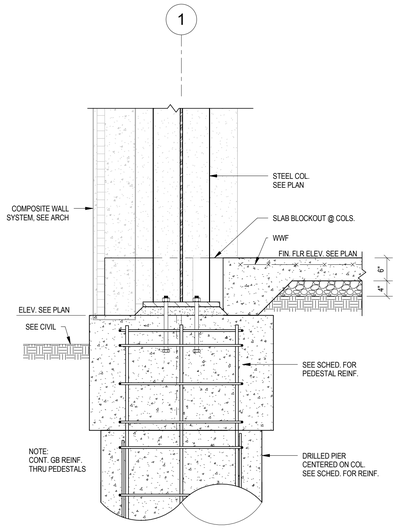
6 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"



8 SECTION
3/4" = 1'-0"



9 SECTION
3/4" = 1'-0"

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
FOUNDATION SECTIONS

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

BUILDING NUMBER 172 | CHECKED CDD | DRAWN MWO

LOCATION
C.A.V.H.S., LR DIVISION

DATE
01 FEBRUARY 2014

VA PROJECT NUMBER
VA 256 - P - 1272

TFCG PROJECT NUMBER
84410

DRAWING NO.
S203
Dwg 21 of 167

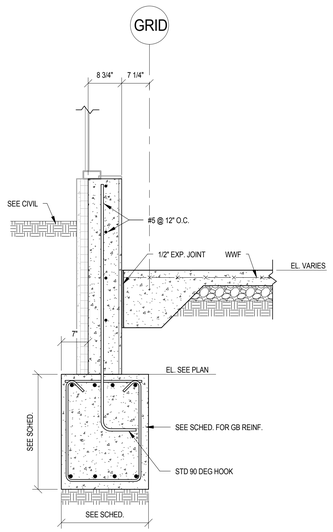
Office of Facilities

DEPARTMENT OF VETERANS AFFAIRS

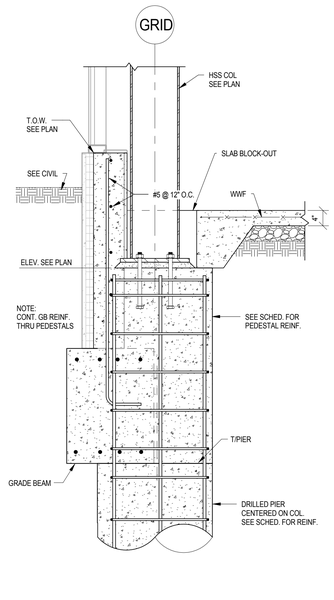
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12371
CASEY DANIEL
1/31/14

CERTIFICATE OF AUTHORIZATION
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER

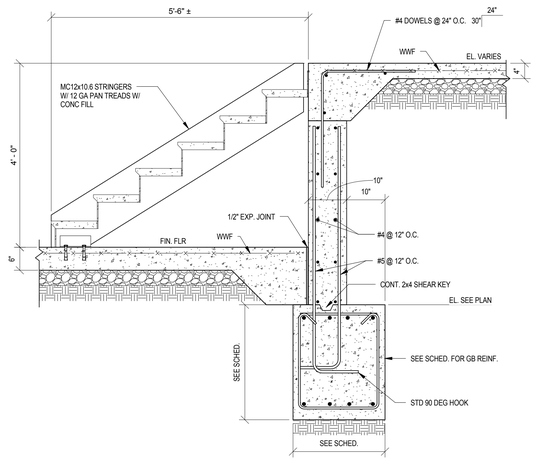
ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM



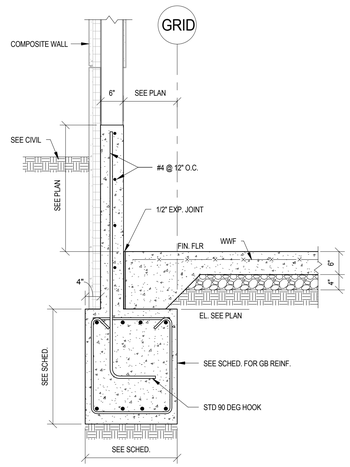
1 SECTION
3/4" = 1'-0"



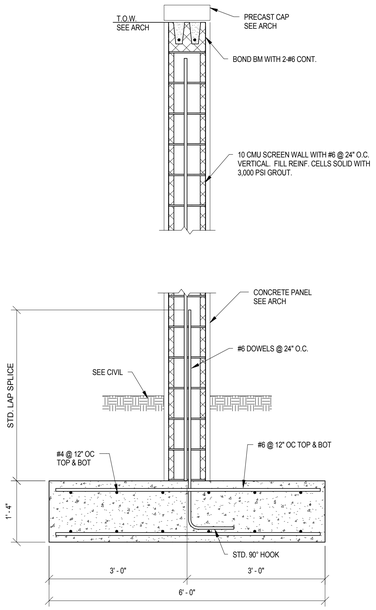
2 SECTION
3/4" = 1'-0"



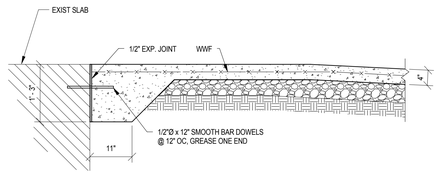
3 SECTION
3/4" = 1'-0"



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



5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12371
CASEY DANIEL

1/31/14

Robbins Engineering PLLC
No. 1083
CERTIFICATE OF AUTHORIZATION NO.
ARKANSAS ENGINEER

REC
ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
FOUNDATION SECTIONS

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

BUILDING NUMBER 172 | CHECKED CDD | DRAWN MWO

LOCATION
C.A.V.H.S., LR DIVISION

DATE
01 FEBRUARY 2014

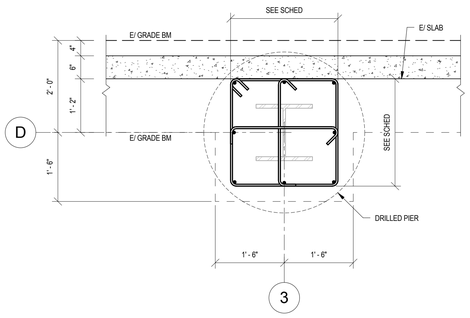
VA PROJECT NUMBER
VA 256 - P - 1272

TFCG PROJECT NUMBER
84410

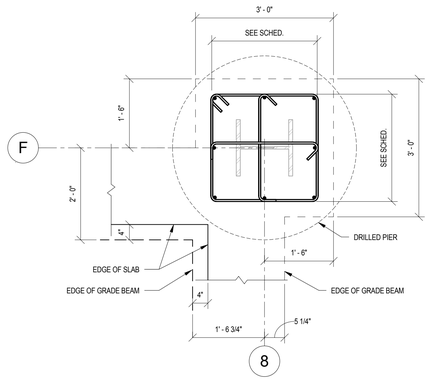
DRAWING NO.
S204
Dwg 22 of 167

Office of Facilities

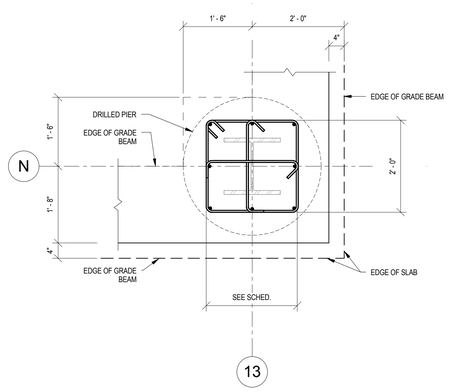
DEPARTMENT OF VETERANS AFFAIRS



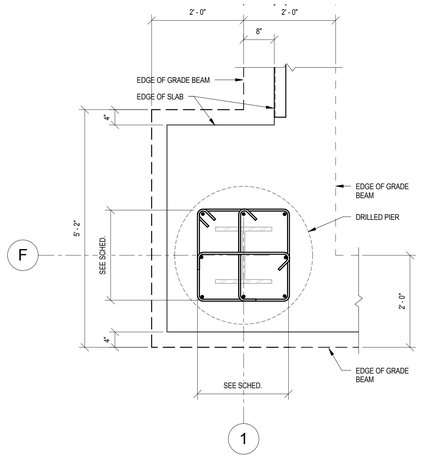
1 PEDESTAL / GRADE BEAM DETAIL
3/4" = 1'-0"



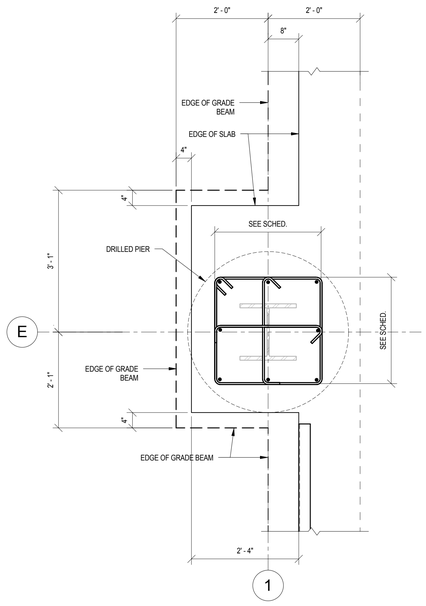
2 PEDESTAL / GRADE BEAM DETAIL
3/4" = 1'-0"



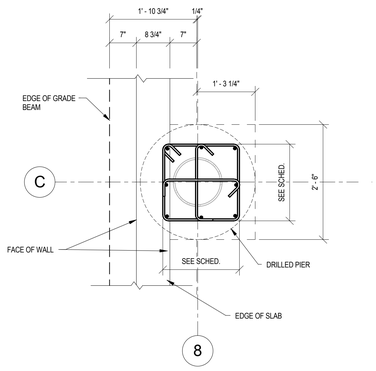
3 PEDESTAL / GRADE BEAM DETAIL
3/4" = 1'-0"



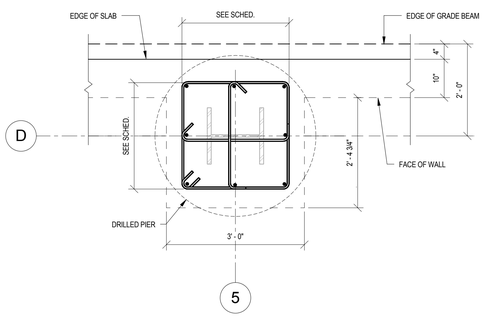
4 PEDESTAL / GRADE BEAM DETAIL
3/4" = 1'-0"



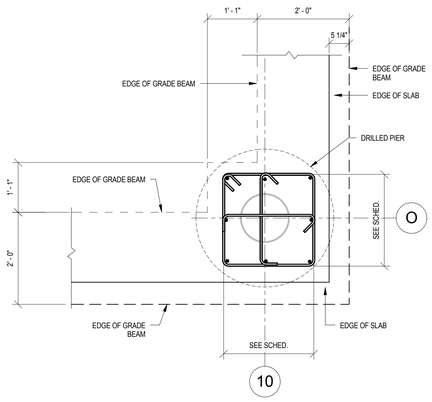
5 PEDESTAL / GRADE BEAM DETAIL
3/4" = 1'-0"



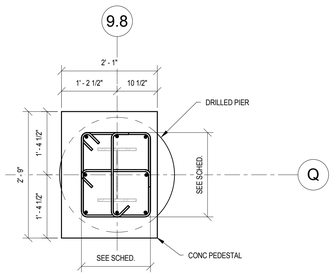
6 PEDESTAL / GRADE BEAM DETAIL
3/4" = 1'-0"



7 PEDESTAL / GRADE BEAM DETAIL
3/4" = 1'-0"



8 PEDESTAL / GRADE BEAM DETAIL
3/4" = 1'-0"



9 PEDESTAL / GRADE BEAM DETAIL
3/4" = 1'-0"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12371
CASEY DANIEL
1/31/14

CERTIFICATE OF AUTHORIZATION NO.
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER

REC
ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

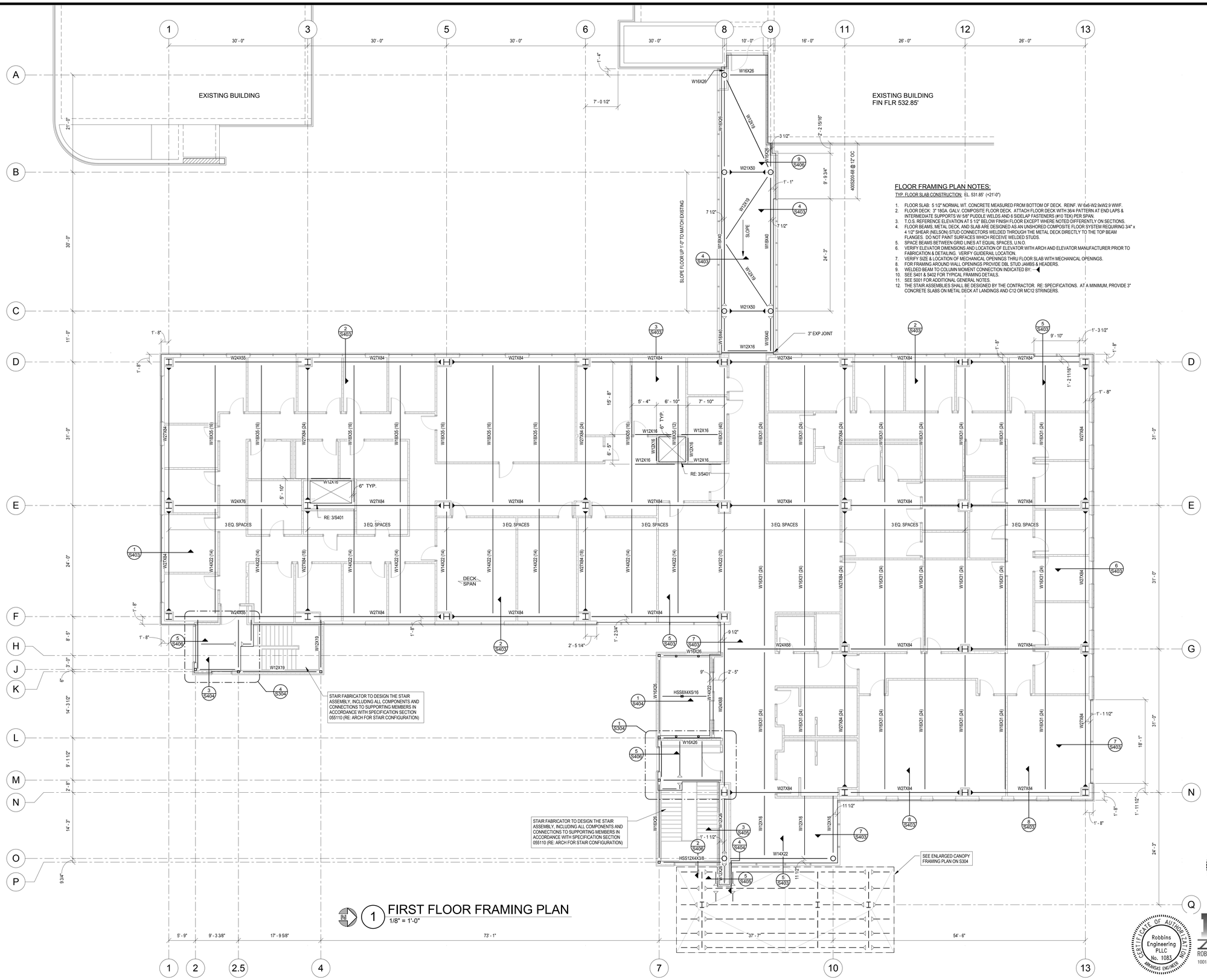
DRAWING TITLE
ENLARGED PEDESTAL & GRADE BEAM DETAILS

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

BUILDING NUMBER: 172
CHECKED: CDD
DRAWN: MWO
LOCATION: C.A.V.H.S., LR DIVISION

DATE: 01 FEBRUARY 2014
VA PROJECT NUMBER: VA 256 - P - 1272
TFCO PROJECT NUMBER: 84410
DRAWING NO.: S205
Dwg 23 of 167

Office of Facilities
DEPARTMENT OF VETERANS AFFAIRS



FLOOR FRAMING PLAN NOTES:

TYP. FLOOR SLAB CONSTRUCTION: EL. 531.85' (+21'-0")

1. FLOOR SLAB: 5 1/2" NORMAL WT. CONCRETE MEASURED FROM BOTTOM OF DECK. REINF. W 6x6-W2.9xW2.9 WWF.
2. FLOOR DECK: 3" 18GA. GALV. COMPOSITE FLOOR DECK. ATTACH FLOOR DECK WITH 36/4 PATTERN AT END LAPS & INTERMEDIATE SUPPORTS W/ 5/8" PUDDLE WELDS AND 6 SIDELAP FASTENERS (#10 TEK) PER SPAN.
3. T.O.S. REFERENCE ELEVATION AT 5 1/2" BELOW FINISH FLOOR EXCEPT WHERE NOTED DIFFERENTLY ON SECTIONS.
4. FLOOR BEAMS, METAL DECK, AND SLAB ARE DESIGNED AS AN UNSHORED COMPOSITE FLOOR SYSTEM REQUIRING 3/4" x 4 1/2" SHEAR (NELSON) STUD CONNECTORS WELDED THROUGH THE METAL DECK DIRECTLY TO THE TOP BEAM FLANGES. DO NOT PAINT SURFACES WHICH RECEIVE WELDED STUDS.
5. SPACE BEAMS BETWEEN GRID LINES AT EQUAL SPACES, U.N.O.
6. VERIFY ELEVATOR DIMENSIONS AND LOCATION OF ELEVATOR WITH ARCH AND ELEVATOR MANUFACTURER PRIOR TO FABRICATION & DETAILING. VERIFY GUIDERAIL LOCATION.
7. VERIFY SIZE & LOCATION OF MECHANICAL OPENINGS THRU FLOOR SLAB WITH MECHANICAL OPENINGS.
8. FOR FRAMING AROUND WALL OPENINGS PROVIDE DBL STUD JAMBS & HEADERS.
9. WELDED BEAM TO COLUMN MOMENT CONNECTION INDICATED BY: ◄
10. SEE S401 & S402 FOR TYPICAL FRAMING DETAILS.
11. SEE S001 FOR ADDITIONAL GENERAL NOTES.
12. THE STAIR ASSEMBLIES SHALL BE DESIGNED BY THE CONTRACTOR. RE: SPECIFICATIONS. AT A MINIMUM, PROVIDE 3" CONCRETE SLABS ON METAL DECK AT LANDINGS AND C12 OR MC12 STRINGERS.

1 FIRST FLOOR FRAMING PLAN
1/8" = 1'-0"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12371
CASEY DANIEL
1/31/14

ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

CERTIFICATE OF AUTHORIZATION
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
FIRST FLOOR FRAMING PLAN

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

BUILDING NUMBER 172 | CHECKED CDD | DRAWN MWO

LOCATION
C.A.V.H.S., LR DIVISION

DATE
01 FEBRUARY 2014

VA PROJECT NUMBER
VA 256 - P - 1272

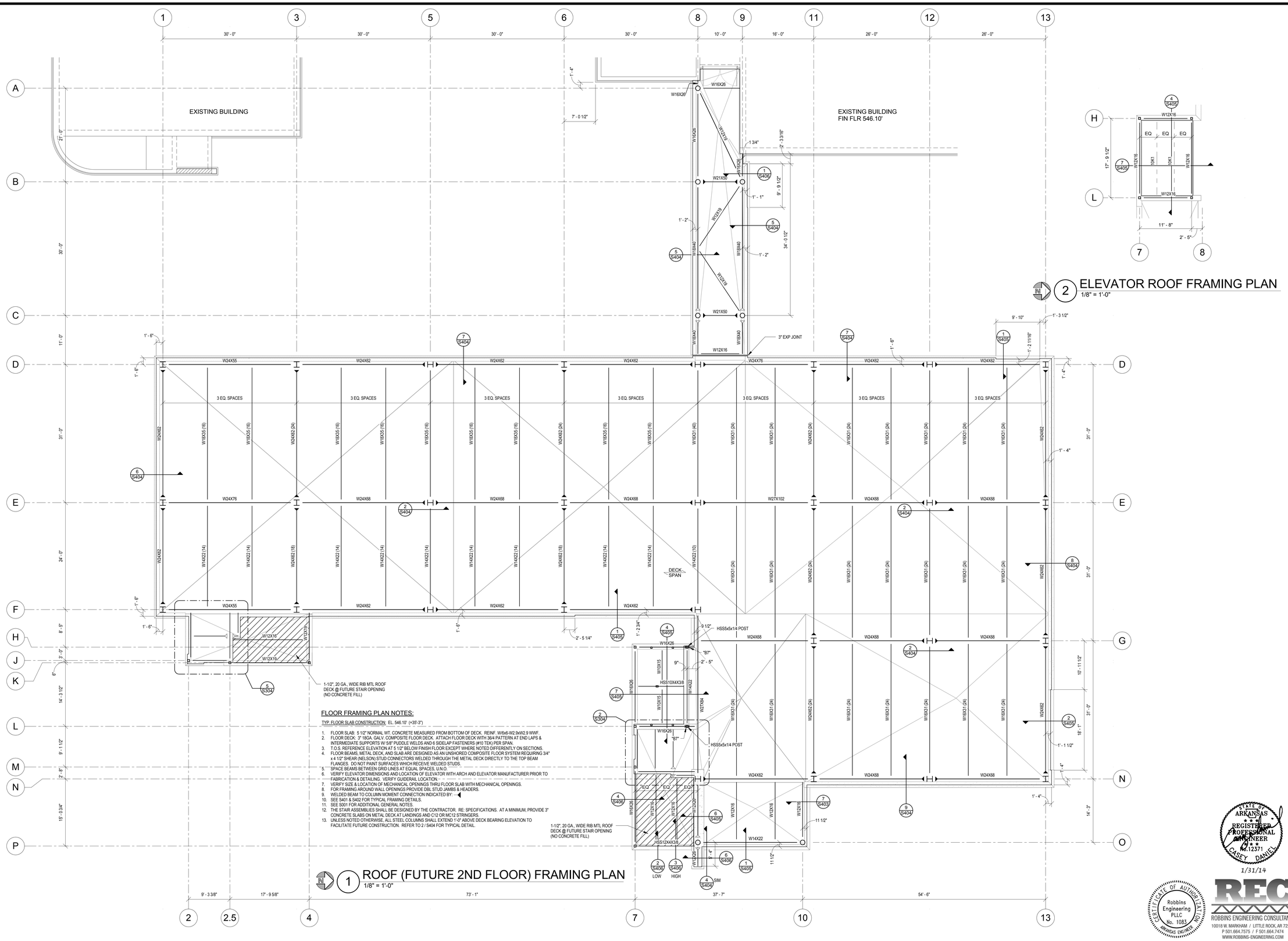
TFCG PROJECT NUMBER
84410

DRAWING NO.
S301

Dwg 24 of 167

Office of Facilities

DEPARTMENT OF VETERANS AFFAIRS



FLOOR FRAMING PLAN NOTES:

TYP. FLOOR SLAB CONSTRUCTION: EL. 546.10' (+35'-3")

1. FLOOR SLAB: 5 1/2" NORMAL WT. CONCRETE MEASURED FROM BOTTOM OF DECK. REINF. W6x6-W2.9xW2.9 WWF.
2. FLOOR DECK: 3" 18GA. GALV. COMPOSITE FLOOR DECK. ATTACH FLOOR DECK WITH 36/4 PATTERN AT END LAPS & INTERMEDIATE SUPPORTS W/ 5/8" PUDDLE WELDS AND 6 SIDELAP FASTENERS (#10 TEK) PER SPAN.
3. T.O.S. REFERENCE ELEVATION AT 5 1/2" BELOW FINISH FLOOR EXCEPT WHERE NOTED DIFFERENTLY ON SECTIONS.
4. FLOOR BEAMS, METAL DECK, AND SLAB ARE DESIGNED AS AN UNSHORED COMPOSITE FLOOR SYSTEM REQUIRING 3/4" x 4 1/2" SHEAR (NELSON) STUD CONNECTORS WELDED THROUGH THE METAL DECK DIRECTLY TO THE TOP BEAM FLANGES. DO NOT PAINT SURFACES WHICH RECEIVE WELDED STUDS.
5. SPACE BEAMS BETWEEN GRID LINES AT EQUAL SPACES, U.N.O.
6. VERIFY ELEVATOR DIMENSIONS AND LOCATION OF ELEVATOR WITH ARCH AND ELEVATOR MANUFACTURER PRIOR TO FABRICATION & DETAILING. VERIFY GUIDERAIL LOCATION.
7. VERIFY SIZE & LOCATION OF MECHANICAL OPENINGS THRU FLOOR SLAB WITH MECHANICAL OPENINGS.
8. FOR FRAMING AROUND WALL OPENINGS PROVIDE DBL STUD JAMBS & HEADERS.
9. WELDED BEAM TO COLUMN MOMENT CONNECTION INDICATED BY: ◄
10. SEE S401 & S402 FOR TYPICAL FRAMING DETAILS.
11. SEE S001 FOR ADDITIONAL GENERAL NOTES.
12. THE STAIR ASSEMBLIES SHALL BE DESIGNED BY THE CONTRACTOR. RE: SPECIFICATIONS. AT A MINIMUM, PROVIDE 3" CONCRETE SLABS ON METAL DECK AT LANDINGS AND C12 OR MC12 STRINGERS.
13. UNLESS NOTED OTHERWISE, ALL STEEL COLUMNS SHALL EXTEND 1'-0" ABOVE DECK BEARING ELEVATION TO FACILITATE FUTURE CONSTRUCTION. REFER TO 2 / S404 FOR TYPICAL DETAIL.

1 ROOF (FUTURE 2ND FLOOR) FRAMING PLAN
1/8" = 1'-0"

2 ELEVATOR ROOF FRAMING PLAN
1/8" = 1'-0"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12371
CASEY DANIEL
1/31/14

CERTIFICATE OF AUTHORIZATION NO.
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER

ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
ROOF (FUTURE 2ND FLOOR) FRAMING PLAN

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

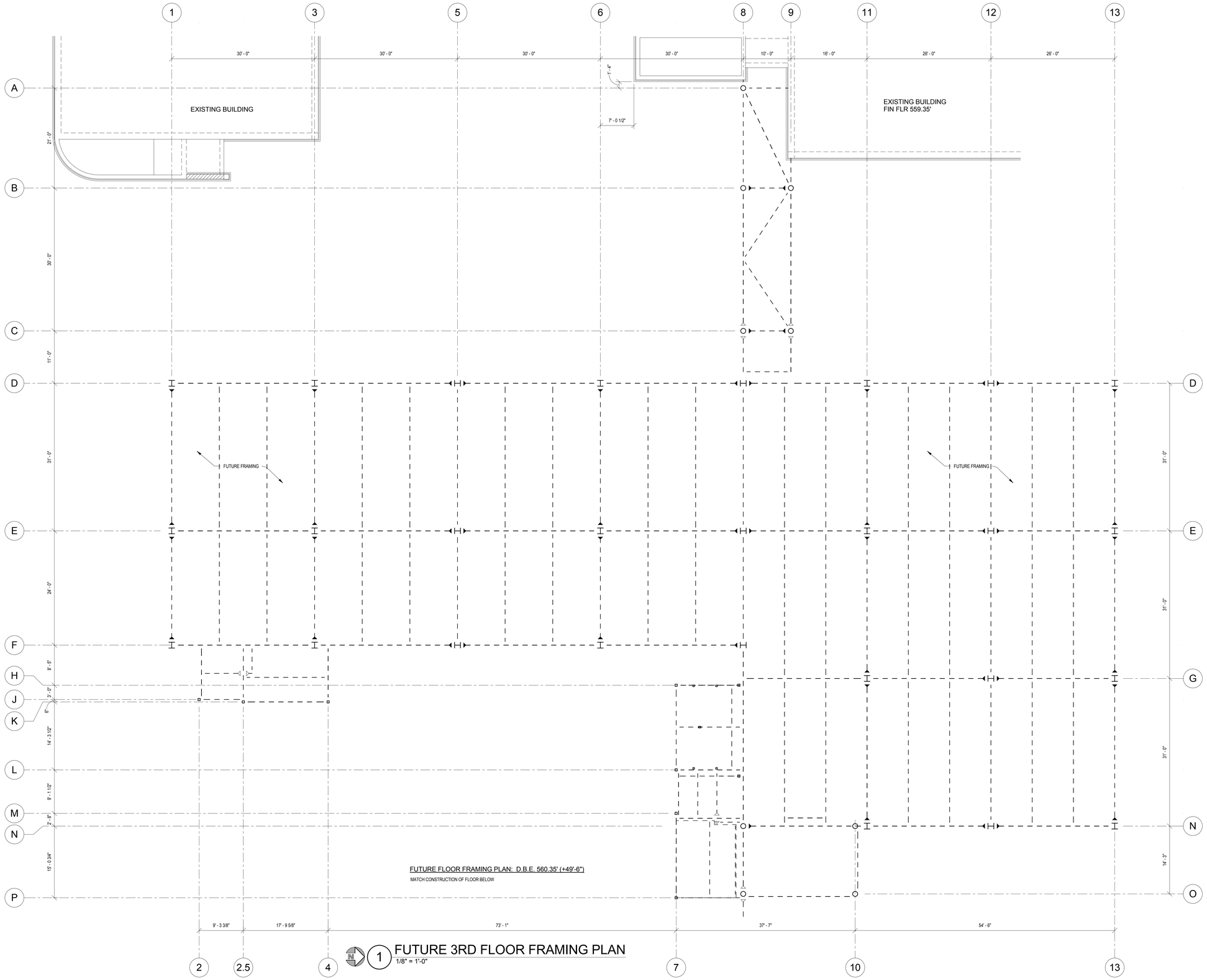
DATE: 01 FEBRUARY 2014
VA PROJECT NUMBER: VA 256 - P - 1272
TFCG PROJECT NUMBER: 84410

BUILDING NUMBER: 172
CHECKED: CDD
DRAWN: MWO

LOCATION: C.A.V.H.S., LR DIVISION

DRAWING NO.: S302
Dwg 25 of 167

Office of Facilities
DEPARTMENT OF VETERANS AFFAIRS



FUTURE FLOOR FRAMING PLAN: D.B.E. 560.35' (+49'-6")

MATCH CONSTRUCTION OF FLOOR BELOW

1 FUTURE 3RD FLOOR FRAMING PLAN

1/8" = 1'-0"

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 12371 CASEY DANIEL

1/31/14

Robbins Engineering PLLC No. 1083 CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER

REC ROBBINS ENGINEERING CONSULTANTS

10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
FUTURE 3RD FLOOR FRAMING PLAN

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

BUILDING NUMBER 172 | CHECKED CDD | DRAWN MWO

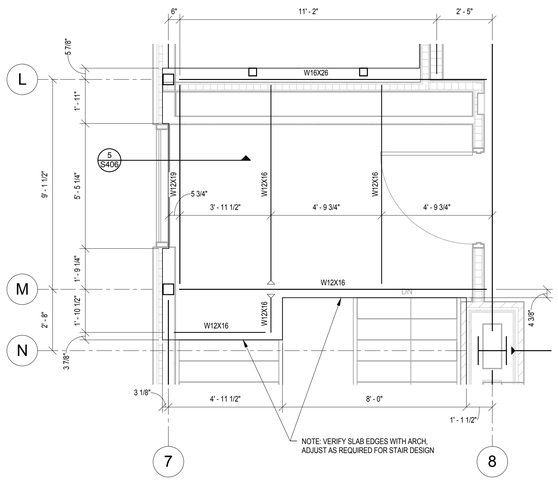
LOCATION C.A.V.H.S., LR DIVISION

DATE 01 FEBRUARY 2014
VA PROJECT NUMBER VA 256 - P - 1272
TFCO PROJECT NUMBER 84410

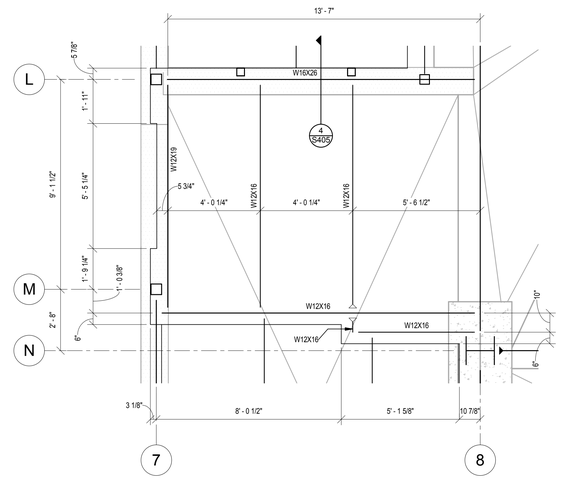
DRAWING NO. S303
Dwg 26 of 167

Office of Facilities

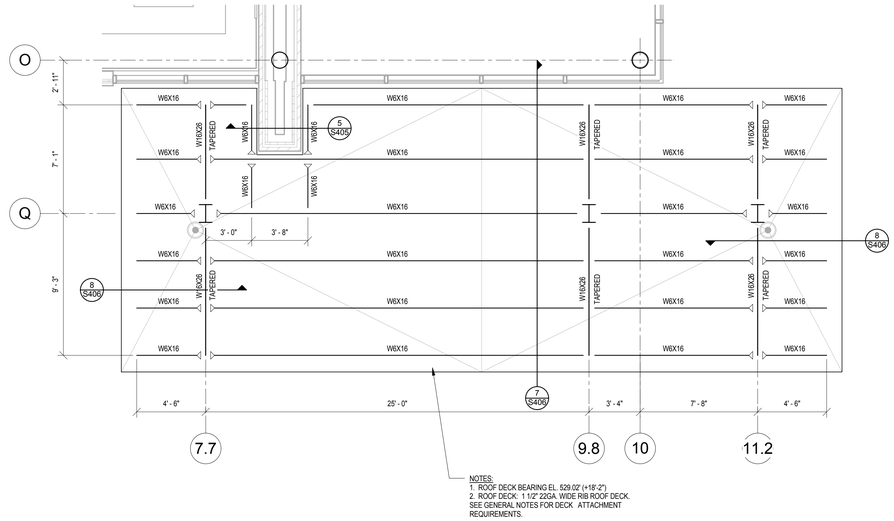
DEPARTMENT OF VETERANS AFFAIRS



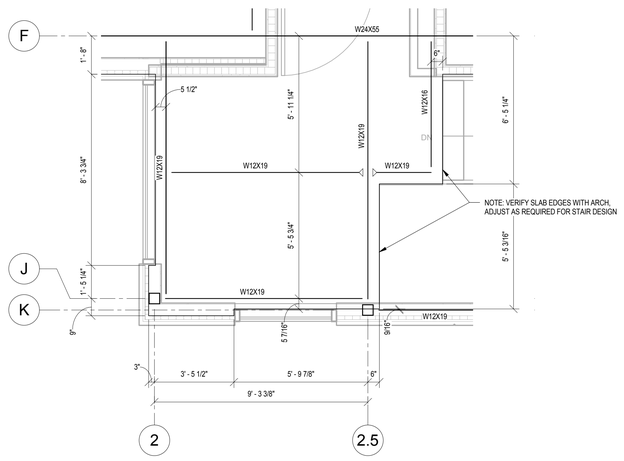
1 ENLARGED 1ST FLR PLAN
3/8" = 1'-0"



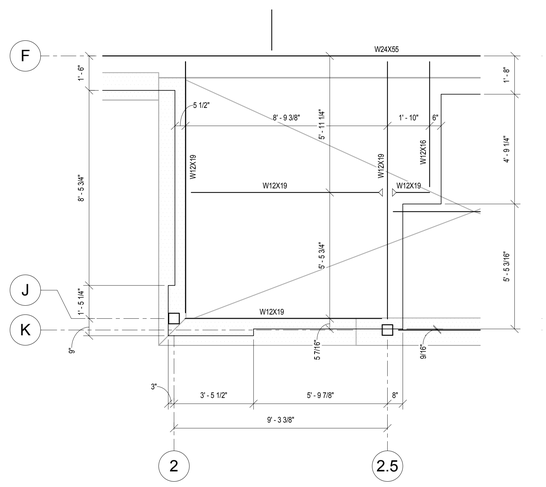
2 ENLARGED ROOF PLAN
3/8" = 1'-0"



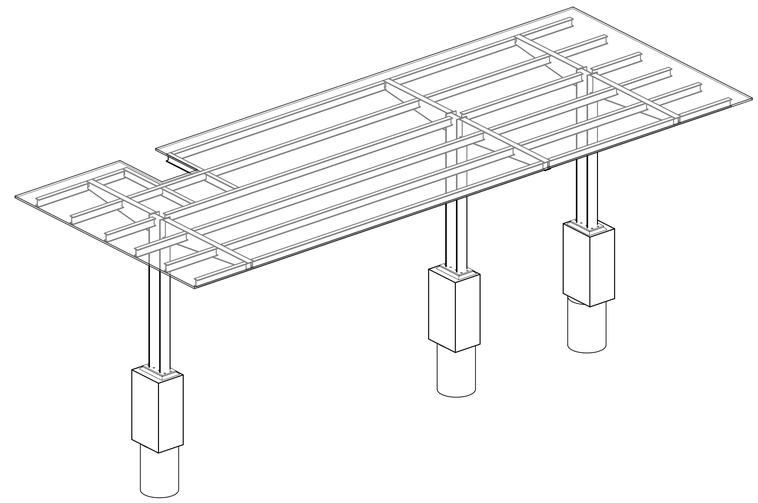
3 CANOPY FRAMING PLAN
1/4" = 1'-0"



4 ENLARGED 1ST FLR PLAN
3/8" = 1'-0"



5 ENLARGED ROOF PLAN
3/8" = 1'-0"



6 3D OF ENTRY CANOPY

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12371
CASEY DANIEL
1/31/14

CERTIFICATE OF AUTHORIZATION
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER

REC
ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
ENLARGED FRAMING PLANS

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

DATE
01 FEBRUARY 2014

VA PROJECT NUMBER
VA 256 - P - 1272

TFCG PROJECT NUMBER
84410

BUILDING NUMBER
172

CHECKED
CDD

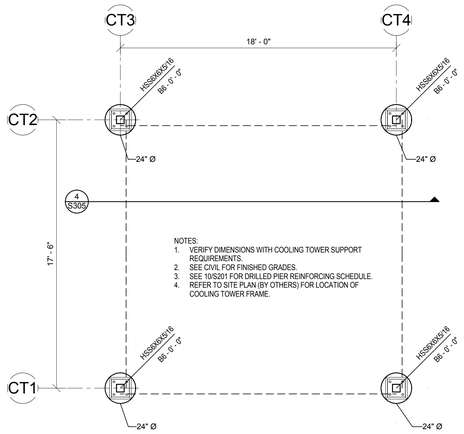
DRAWN
MWO

LOCATION
C.A.V.H.S., LR DIVISION

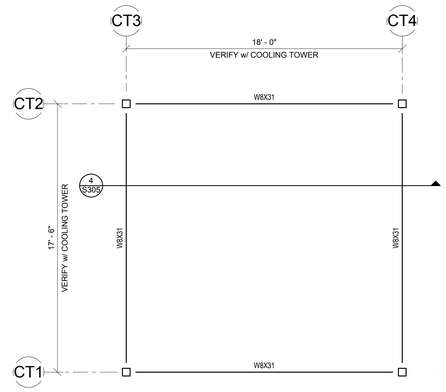
DRAWING NO.
S304
Dwg 27 of 167

Office of Facilities

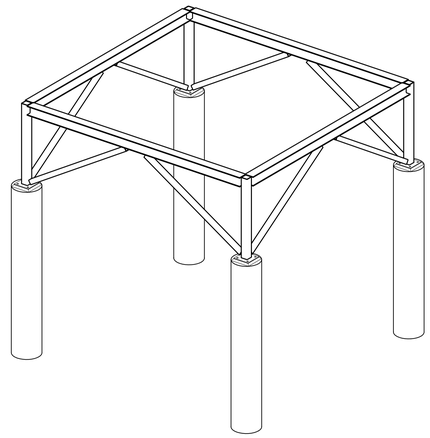
DEPARTMENT OF VETERANS AFFAIRS



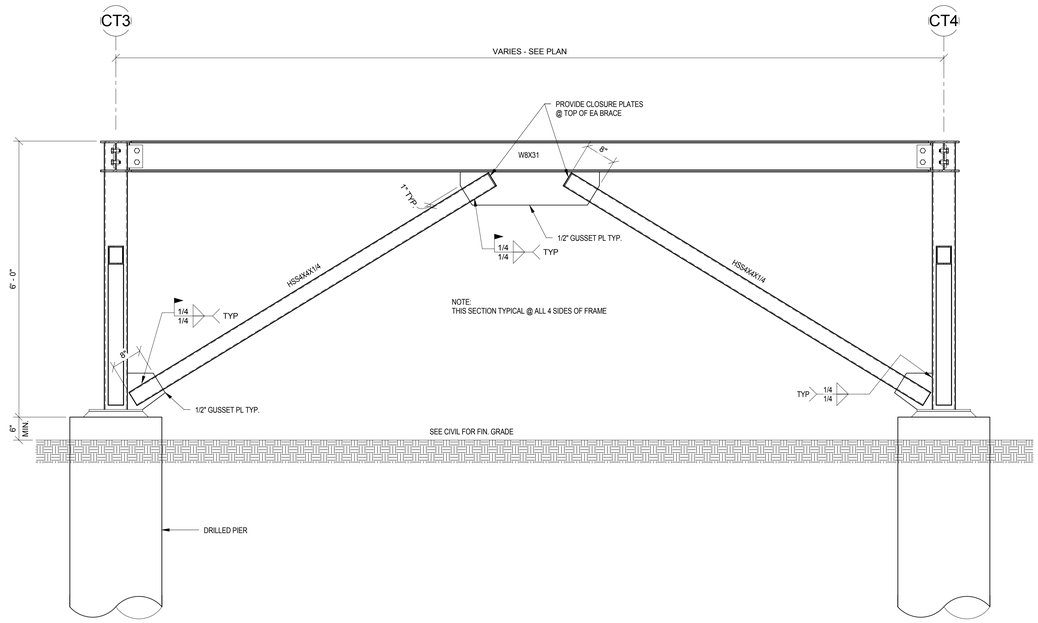
1 COOLING TOWER FOUNDATION PLAN
1/4" = 1'-0"



2 COOLING TOWER FRAMING PLAN
1/4" = 1'-0"



3 3D PERSPECTIVE OF COOLING TOWER FRAME



4 TYP COOLING TOWER FRAME SECTION
3/4" = 1'-0"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12371
CASEY DANIEL
1/31/14

Robbins Engineering PLLC No. 1083
CERTIFICATE OF AUTHORIZATION NO.
ARKANSAS ENGINEER

REC
ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
COOLING TOWER FRAMING PLAN

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

BUILDING NUMBER 172 | CHECKED CDD | DRAWN MWO

LOCATION
C.A.V.H.S., LR DIVISION

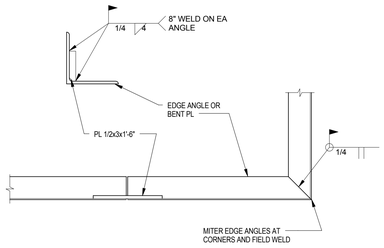
DATE
01 FEBRUARY 2014

VA PROJECT NUMBER
VA 256 - P - 1272

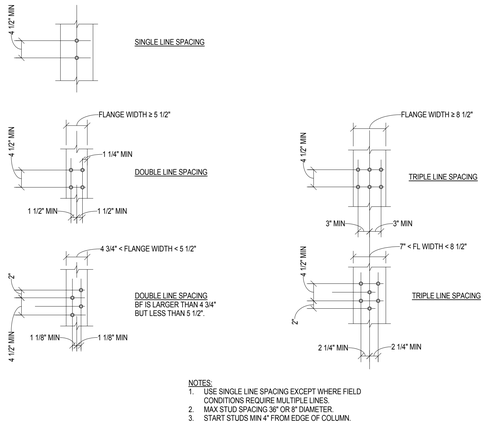
TFCG PROJECT NUMBER
84410

DRAWING NO.
S305
Dwg 28 of 167

Office of Facilities
DEPARTMENT OF VETERANS AFFAIRS

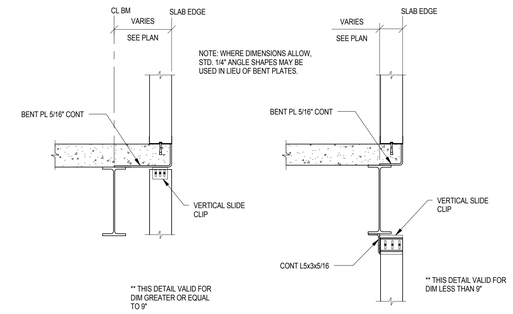


1 DETAIL-EDGE ANGLE SPLICE & CORNER
3/4" = 1'-0"

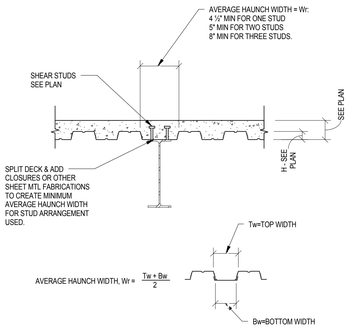


NOTES:
1. USE SINGLE LINE SPACING EXCEPT WHERE FIELD CONDITIONS REQUIRE MULTIPLE LINES.
2. MAX STUD SPACING 36" OR 8" DIAMETER.
3. START STUDS MIN 4" FROM EDGE OF COLUMN.

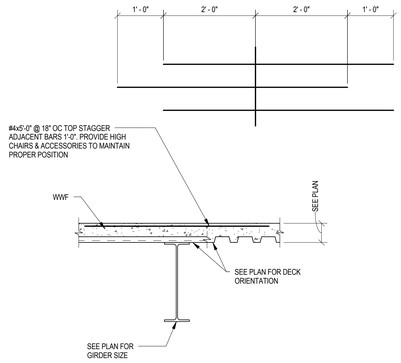
2 DETAIL-SHEAR STUD LAYOUT
3/4" = 1'-0"



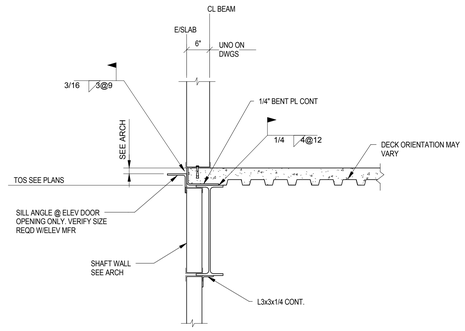
3 DETAIL-SLAB EDGE @ INTERIOR OPENINGS
3/4" = 1'-0"



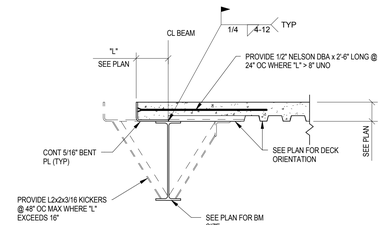
4 TYP HAUNCH @ COMPOSITE GIRDERS
3/4" = 1'-0"



5 DETAIL-TOP REINF OVER GIRDERS
3/4" = 1'-0"

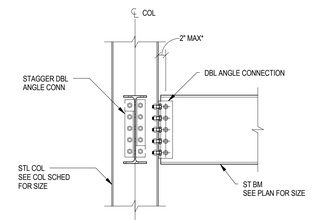


6 DETAIL-TYP SILL ANGLE CONN @ ELEVATOR
3/4" = 1'-0"



NOTES:
1. STANDARD ANGLE SIZES MAY BE USED IN LIEU OF BENT PLATED WHEN GEOMETRY PERMITS.
2. WHERE CURVED BENT PLATES OCCUR USE TWO FLAT PLATES WELDED AT JOINT WITH 1/4" FILLET WELD (4@12)

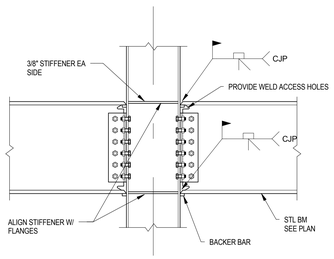
7 DETAIL-TYP SLAB EDGE
3/4" = 1'-0"

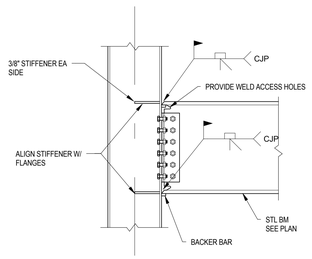


* 2" DIM IS BASED ON 1/2" CLEARANCE FROM FACE OF COLUMN TO END OF BEAM PLUS 1 1/2" TO CENTERLINE OF HOLE.

NOTES:
1. PROVIDE MAXIMUM NUMBER OF BOLTS AS WEB DEPTH ALLOWS.
2. OVERSIZED & LONG-SLOTTED HOLES NOT PERMITTED.

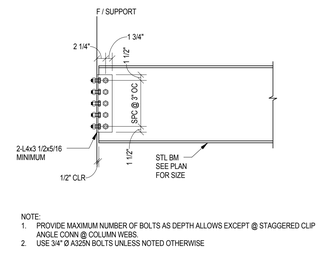
8 TYP BEAM TO COL CONN
3/4" = 1'-0"





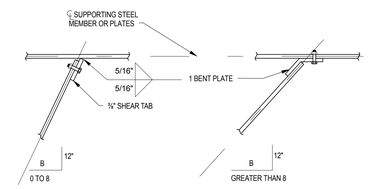
NOTES:
1. PROVIDE DECK CLOSURE PLATES WHERE COL'S ARE HIGHER THAN DECK BEARING.
2. PROVIDE BACKER BAR @ TOP & BOT OF BM.
3. SPECIAL INSPECTION REQUIRED AT ALL FULL PENETRATION WELDS.

9 DETAIL-TYP DIRECT WELDED MOMENT CONNECTION
3/4" = 1'-0"



NOTE:
1. PROVIDE MAXIMUM NUMBER OF BOLTS AS DEPTH ALLOWS EXCEPT @ STAGGERED CLIP ANGLE CONN @ COLUMN WEBS.
2. USE 3/4" Ø A325N BOLTS UNLESS NOTED OTHERWISE

10 TYP DOUBLE ANGLE FRAMED CONN
3/4" = 1'-0"



TYPE A TYPE B

NOTES:
SHOP CONNECTIONS TO BE H.S. BOLTED OR WELDED AT FABRICATOR'S OPTION.

11 TYP SKEWED SINGLE SHEAR PLATE BM CONN
3/4" = 1'-0"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12571
CASEY DANIEL
1/31/14

CERTIFICATE OF AUTHORIZATION
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER

ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
TYP FRAMING DETAILS

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

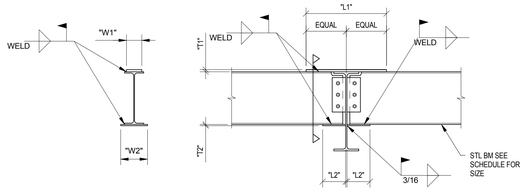
BUILDING NUMBER 172 | CHECKED CDD | DRAWN MWO

LOCATION
C.A.V.H.S., LR DIVISION

DATE 01 FEBRUARY 2014
VA PROJECT NUMBER VA 256 - P - 1272
TFCG PROJECT NUMBER 84410

DRAWING NO.
S401
Dwg 29 of 167

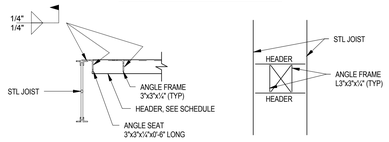
Office of Facilities
DEPARTMENT OF VETERANS AFFAIRS



SCHEDULE							
BM SIZE	L1 (IN)	T1 (IN)	W1 (IN)	L2 (IN)	T2 (IN)	W2 (IN)	WELD (IN)
W12	21	11/16	3	6	3/8	6	1/4
W14	21	9/16	4	6	5/16	7	1/4
W16	25	3/4	4 1/2	8	7/16	7 1/2	5/16
W18	30	13/16	5	10	9/16	8	5/16
W21	33	7/8	5 1/2	12	5/8	8 1/2	5/16
W24	35	7/8	6	13	5/8	9	5/16

1 DETAIL-TYP THRU BEAM MOMENTt CONN
3/4" = 1'-0"

HEADER SCHEDULE	
JOIST SPACING	SIZE
UP TO 4'-6"	L3"x3"x1/4"
OVER 4'-6" TO 6'-6"	L3½"x3"x½" LLV
OVER 6'-6" TO 8'-0"	L4"x3"x5/16" LLV



NOTE:
VERIFY EXACT NUMBER, SIZE, & LOCATION OF OPENINGS W/ ARCHITECTURAL & MECHANICAL.

STEEL JOIST FRAMING

2 TYP OPENING THRU ROOF DECK
3/4" = 1'-0"

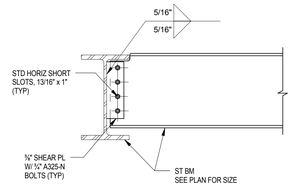
LOOSE STEEL LINTEL SCHEDULE (LSL)

CLEAR OPENING NOT TO EXCEED	LINTEL	BEARING EA END	REMARKS
6'-4" OR LESS	L3 1/2x3 1/2x5/16	8"	
OVER 6'-4" THRU 7'-4"	L4x3 1/2x5/16 LLV	8"	
OVER 7'-4" THRU 9'-4"	L6x3 1/2x5/16 LLV	8"	
OVER 9'-4" THRU 10'-8"	L7x4x7/16 LLV	8"	

LINTEL ANGLES

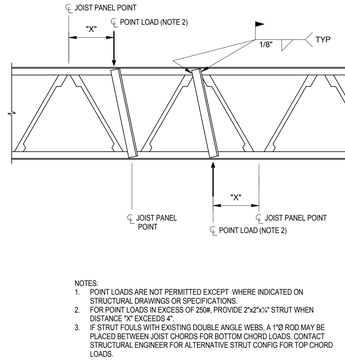
NOTES:
1. USE THIS SCHEDULE UNLESS LINTEL SIZE NOTED OTHERWISE ON DRAWINGS OR DETAILS.
2. GALVANIZE ALL LINTELS EXPOSED TO EXTERIOR CONDITIONS.

3 LOOSE LINTEL SCHEDULE
3/4" = 1'-0"



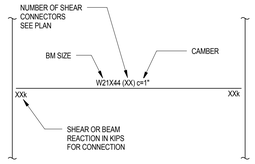
NOTES:
1. PROVIDE MAXIMUM NUMBER OF BOLTS AS WEB DEPTH ALLOWS.
2. SHEAR PL TO BE CLEARLY MARKED TO IDENTIFY.
3. OVERSIZED & LONG-SLOTTED HOLES NOT PERMITTED.

4 TYP SINGLE SHEAR PLATE BM CONN
3/4" = 1'-0"

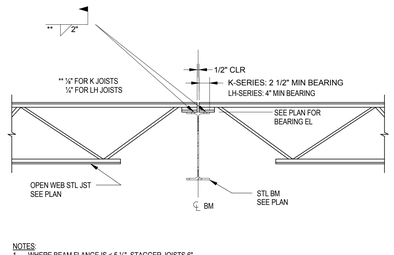


NOTES:
1. POINT LOADS ARE NOT PERMITTED EXCEPT WHERE INDICATED ON STRUCTURAL DRAWINGS OR SPECIFICATIONS.
2. FOR POINT LOADS IN EXCESS OF 250#, PROVIDE 2"x2"x¼" STRUT WHEN DISTANCE "X" EXCEEDS 4'.
3. IF STRUT FOULS WITH EXISTING DOUBLE ANGLE WEBS, A 1"Ø ROD MAY BE PLACED BETWEEN JOIST CHORDS FOR BOTTOM CHORD LOADS. CONTACT STRUCTURAL ENGINEER FOR ALTERNATIVE STRUT CONFIG FOR TOP CHORD LOADS.

5 TYP CONCENTRATED LOAD @ JOISTS
3/4" = 1'-0"

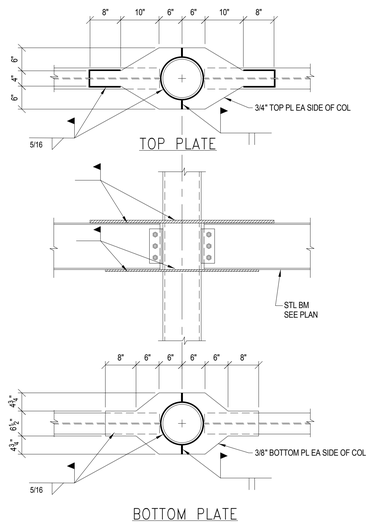


6 TYP COMPOSITE BEAM DESIGNATION
3/4" = 1'-0"

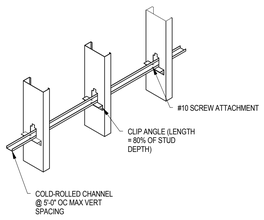


NOTES:
1. WHERE BEAM FLANGE IS < 5 ½", STAGGER JOISTS 6" TO OBTAIN MIN BEARING.
2. DETAIL ALSO APPLIES TO SINGLE JOIST BEARING ON ONE SIDE.

7 TYP JOIST BEARING ON STL BEAMS
3/4" = 1'-0"



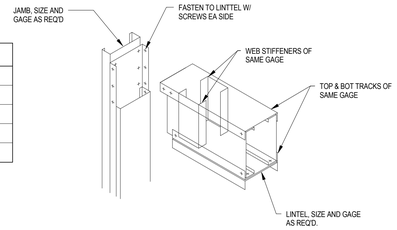
8 TYP HSS MOMENT CONNECTION
3/4" = 1'-0"



9 DETAIL-TYP WALL BRIDGING
3/4" = 1'-0"

LIGHT GAGE HEADER SCHEDULE		
SPAN	SSMA STUD SECTION	YIELD STRENGTH
0'-0" TO 6'-0"	DBL 600S162-43	33 KSI
6'-0" TO 8'-0"	DBL 600S162-54	50 KSI
8'-0" TO 10'-0"	DBL 800S162-43	33 KSI
10'-0" TO 12'-0"	DBL 1000S162-54	50 KSI

NOTES:
1. WEB STIFFENERS REQ'D @ EA END OF HEADERS.



10 DETAIL-NON LOAD BEARING LIGHT GAGE HEADER SCHED.
3/4" = 1'-0"

LIGHT GAGE EXTERIOR STUD SCHEDULE	
UNBRACED STUD HEIGHT	6" SSMA STUD SECTION
0'-0" TO 14'-6"	600S162-43 @ 16" OC
14'-7" TO 15'-6"	600S162-54 @ 16" OC
15'-7" TO 17'-6"	600S200-68 @ 16" OC
17'-7" TO 19'-6"	600S200-97 @ 16" OC

NOTES:
1. VALUES ASSUME BOTH STUD FLANGES ARE BRACED BY WALL PANELS.
2. HORIZONTAL BRIDGING ASSUMED @ 48" OC MAX SPACING.
3. SEE S001 FOR ADDITIONAL LIGHT GAGE GENERAL NOTES, INCLUDING THE REQUIREMENTS FOR DEFLECTION CLIPS.

11 DETAIL-EXTERIOR WALL STUD SCHEDULE
3/4" = 1'-0"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12371
CASEY DANIEL
1/31/14

CERTIFICATE OF AUTHORIZATION
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER

REC
ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
TYP FRAMING DETAILS

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

DATE
01 FEBRUARY 2014

VA PROJECT NUMBER
VA 256 - P - 1272

TFCG PROJECT NUMBER
84410

BUILDING NUMBER
172

CHECKED
CDD

DRAWN
MWO

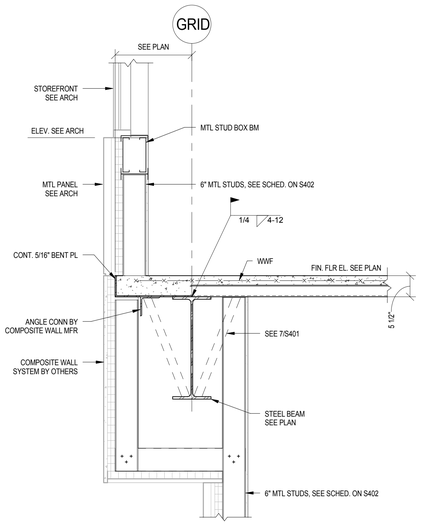
LOCATION
C.A.V.H.S., LR DIVISION

DRAWING NO.
S402

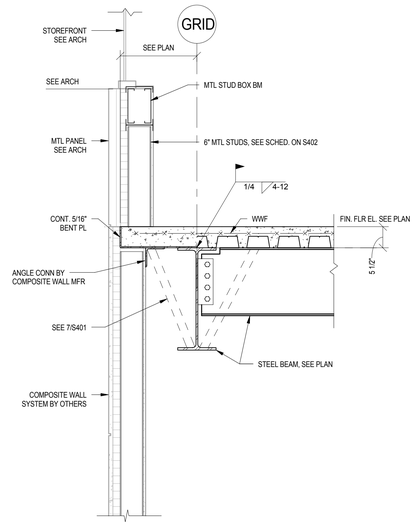
Dwg 30 of 167

Office of Facilities

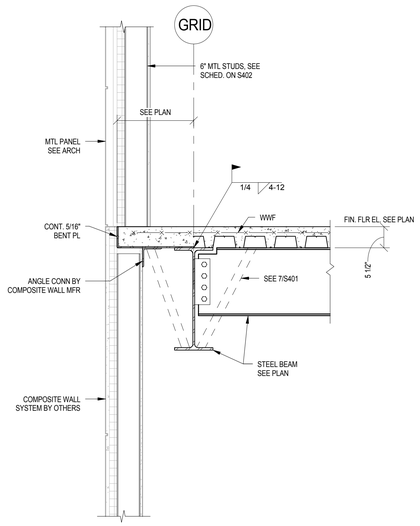
DEPARTMENT OF VETERANS AFFAIRS



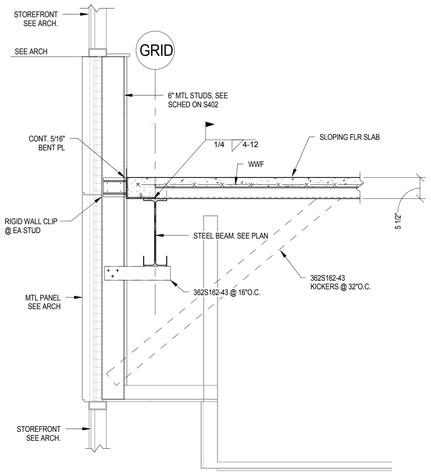
1 SECTION
3/4" = 1'-0"



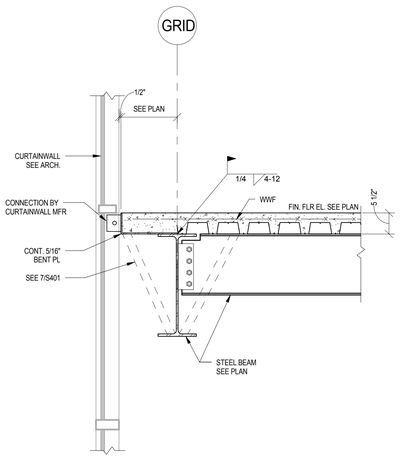
2 SECTION
3/4" = 1'-0"



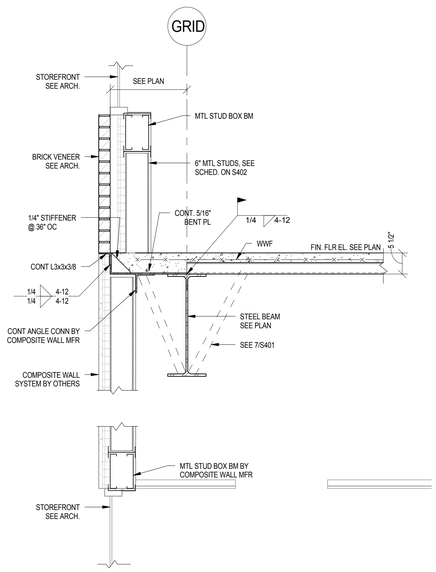
3 SECTION
3/4" = 1'-0"



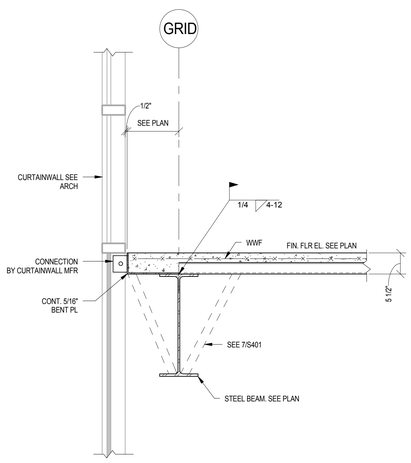
4 SECTION
3/4" = 1'-0"



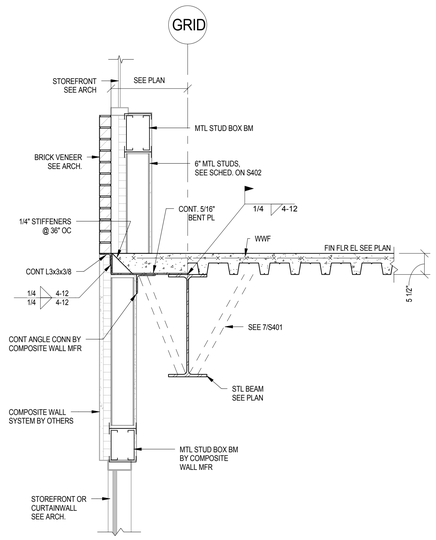
5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"



8 SECTION
3/4" = 1'-0"

1/31/14

ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
FRAMING SECTIONS

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

BUILDING NUMBER 172 | CHECKED CDD | DRAWN MWO

LOCATION
C.A.V.H.S., LR DIVISION

DATE
01 FEBRUARY 2014

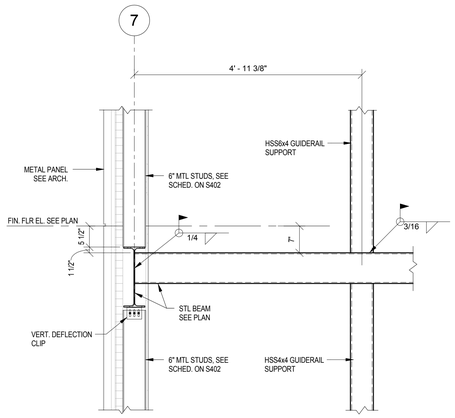
VA PROJECT NUMBER
VA 256 - P - 1272

TFCO PROJECT NUMBER
84410

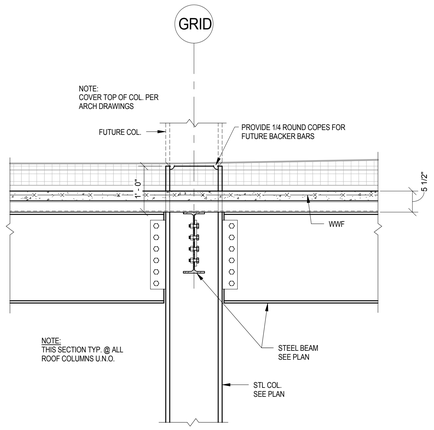
DRAWING NO.
S403
Dwg 31 of 167

Office of Facilities

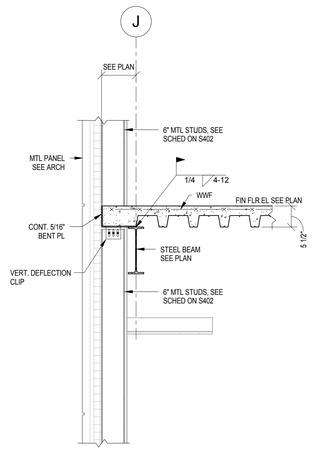
DEPARTMENT OF VETERANS AFFAIRS



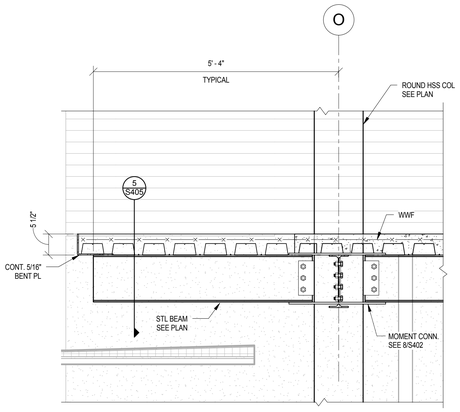
1 SECTION
3/4" = 1'-0"



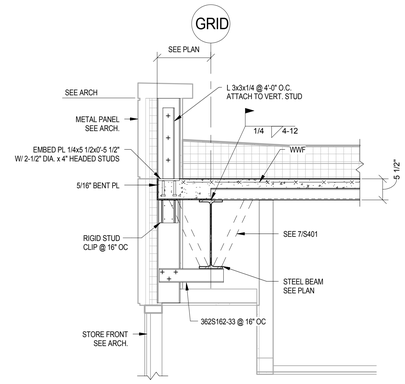
2 SECTION
3/4" = 1'-0"



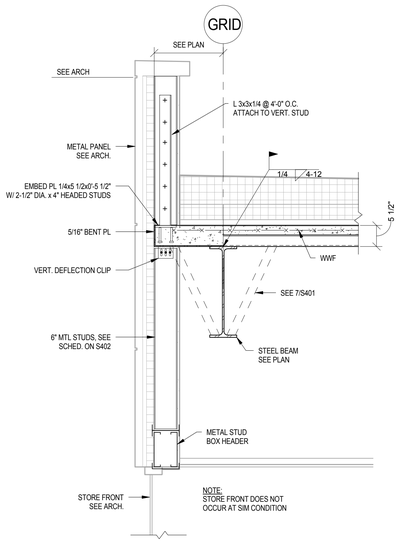
3 SECTION
3/4" = 1'-0"



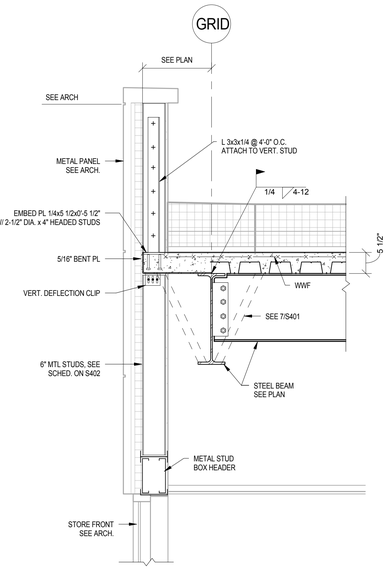
4 SECTION
3/4" = 1'-0"



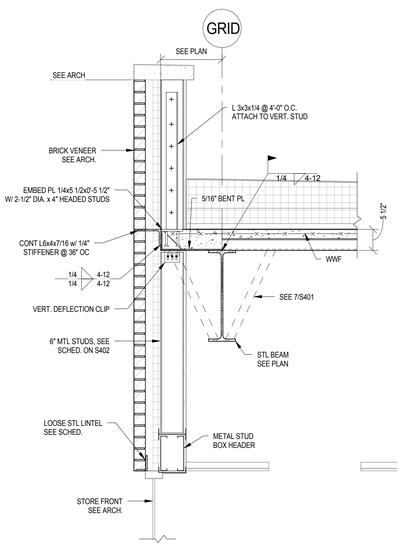
5 SECTION
3/4" = 1'-0"



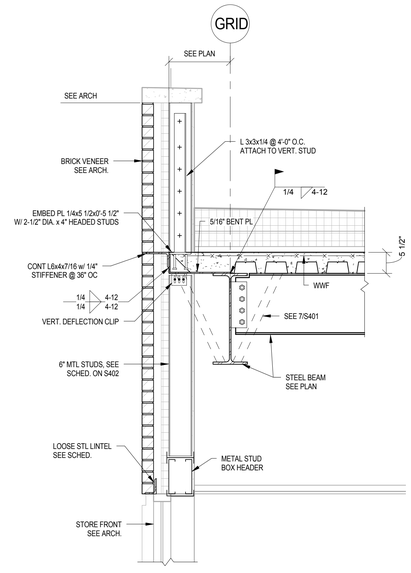
6 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"



8 SECTION
3/4" = 1'-0"



9 SECTION
3/4" = 1'-0"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12371
CASEY DANIEL
1/31/14

CERTIFICATE OF AUTHORIZATION
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER

REC
ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
FRAMING SECTIONS

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

BUILDING NUMBER 172 | CHECKED CDD | DRAWN MWO

LOCATION
C.A.V.H.S., LR DIVISION

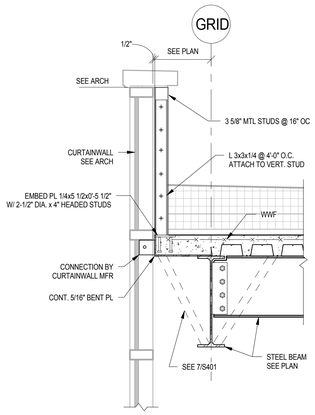
DATE
01 FEBRUARY 2014

VA PROJECT NUMBER
VA 256 - P - 1272

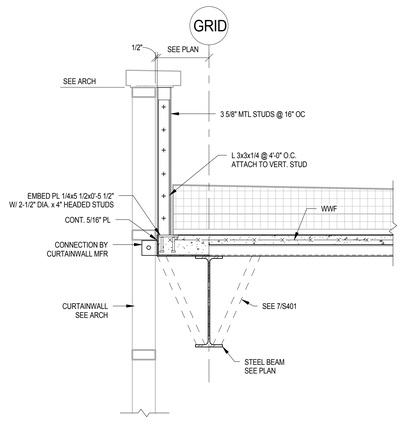
TFCG PROJECT NUMBER
84410

DRAWING NO.
S404
Dwg 32 of 167

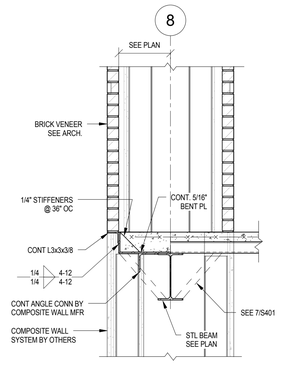
Office of Facilities
DEPARTMENT OF VETERANS AFFAIRS



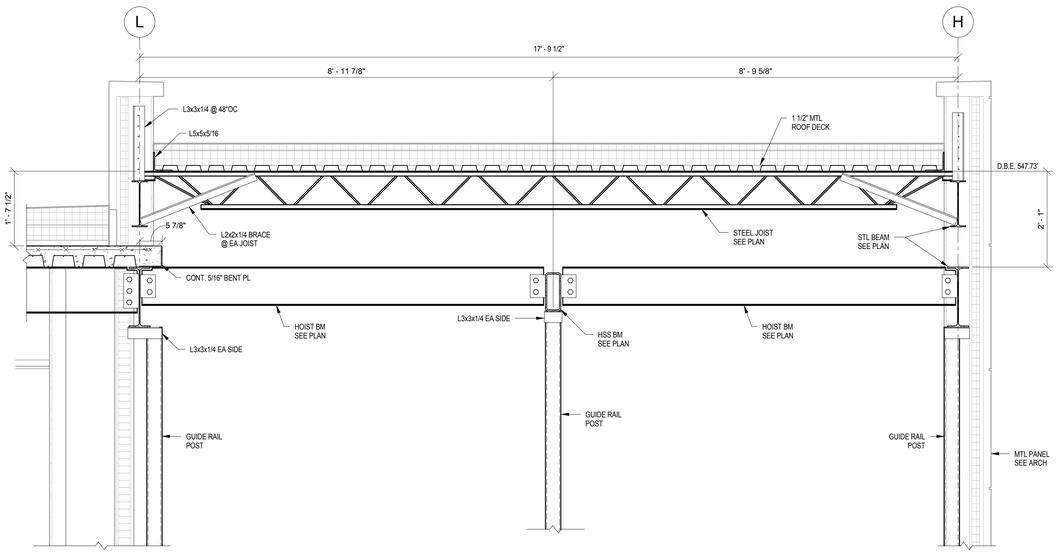
1 SECTION
3/4" = 1'-0"



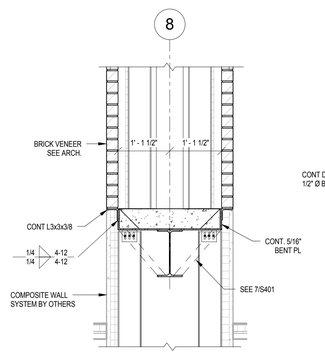
2 SECTION
3/4" = 1'-0"



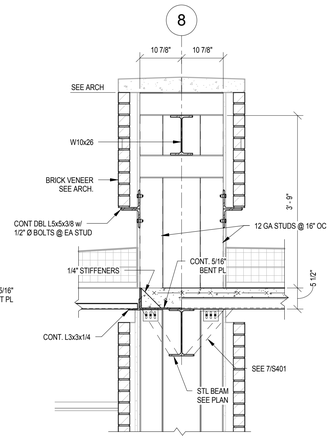
3 SECTION
3/4" = 1'-0"



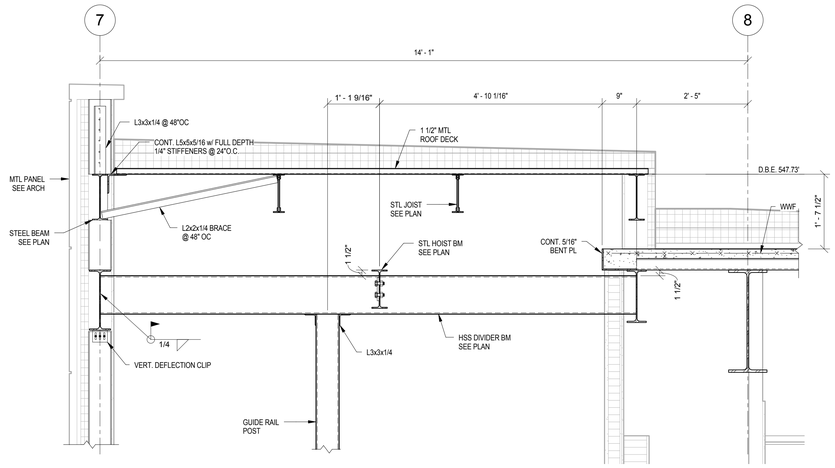
4 SECTION
3/4" = 1'-0"



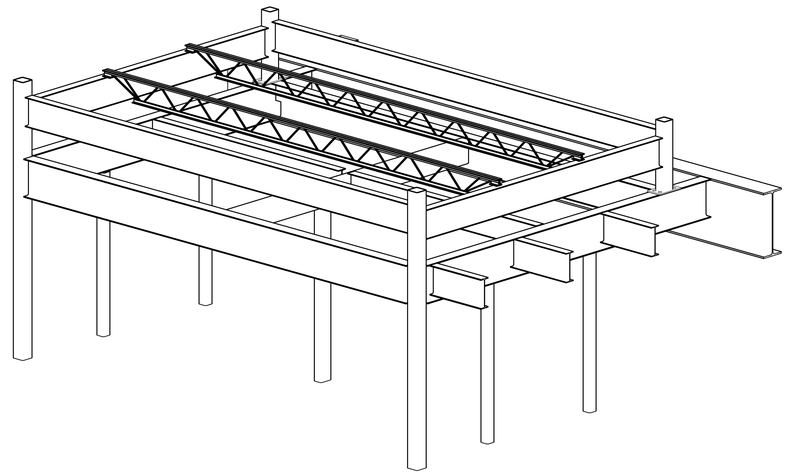
5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"



8 3D of ELEVATOR ROOF FRAMING

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12371
CASEY DANIEL

1/31/14

CERTIFICATE OF AUTHORIZATION
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER

REC
ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
FRAMING SECTIONS

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

BUILDING NUMBER 172 | CHECKED CDD | DRAWN MWO

LOCATION
C.A.V.H.S., LR DIVISION

DATE
01 FEBRUARY 2014

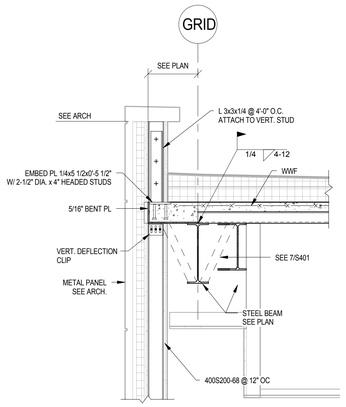
VA PROJECT NUMBER
VA 256 - P - 1272

TFCG PROJECT NUMBER
84410

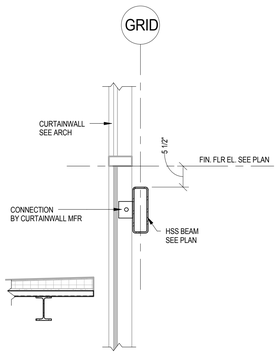
DRAWING NO.
S405
Dwg 33 of 167

Office of Facilities

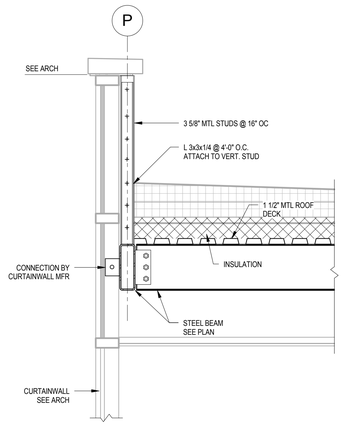
DEPARTMENT OF VETERANS AFFAIRS



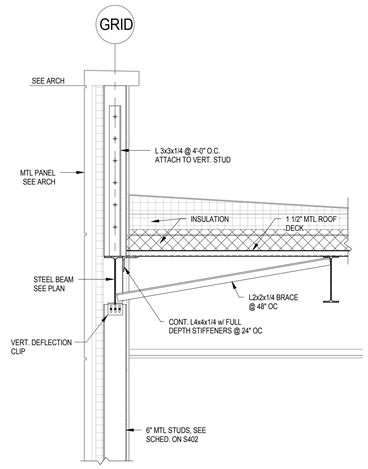
1 SECTION
3/4" = 1'-0"



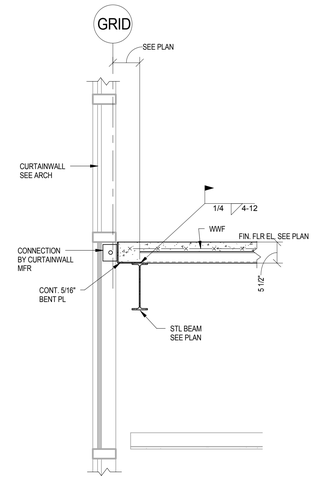
2 SECTION
3/4" = 1'-0"



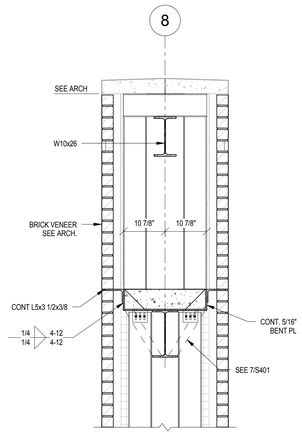
3 SECTION
3/4" = 1'-0"



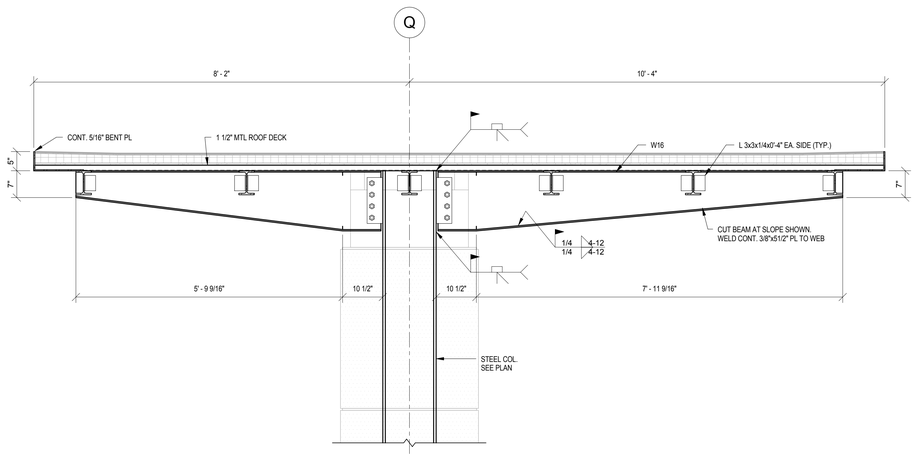
4 SECTION
3/4" = 1'-0"



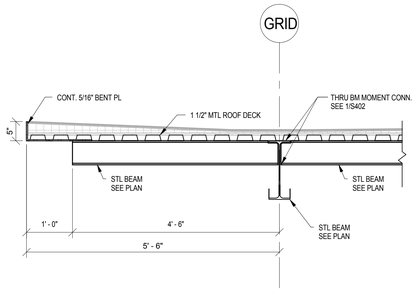
5 SECTION
3/4" = 1'-0"



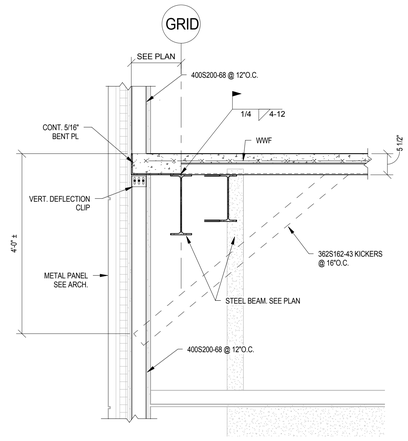
6 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"



8 SECTION
3/4" = 1'-0"



9 SECTION
3/4" = 1'-0"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12371
CASEY DANIEL
1/31/14

Robbins Engineering PLLC No. 1083
CERTIFICATE OF AUTHORIZATION
ARKANSAS ENGINEER

ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
FRAMING SECTIONS

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

DATE: 01 FEBRUARY 2014
VA PROJECT NUMBER: VA 256 - P - 1272
TFCG PROJECT NUMBER: 84410

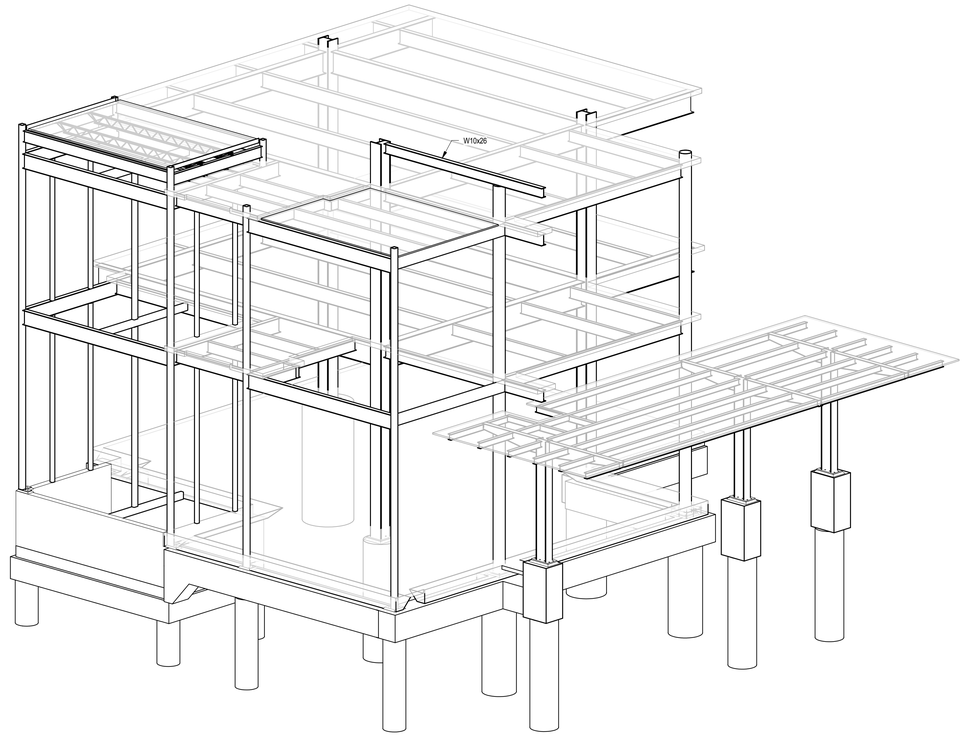
BUILDING NUMBER: 172
CHECKED: CDD
DRAWN: MWO

LOCATION: C.A.V.H.S., LR DIVISION

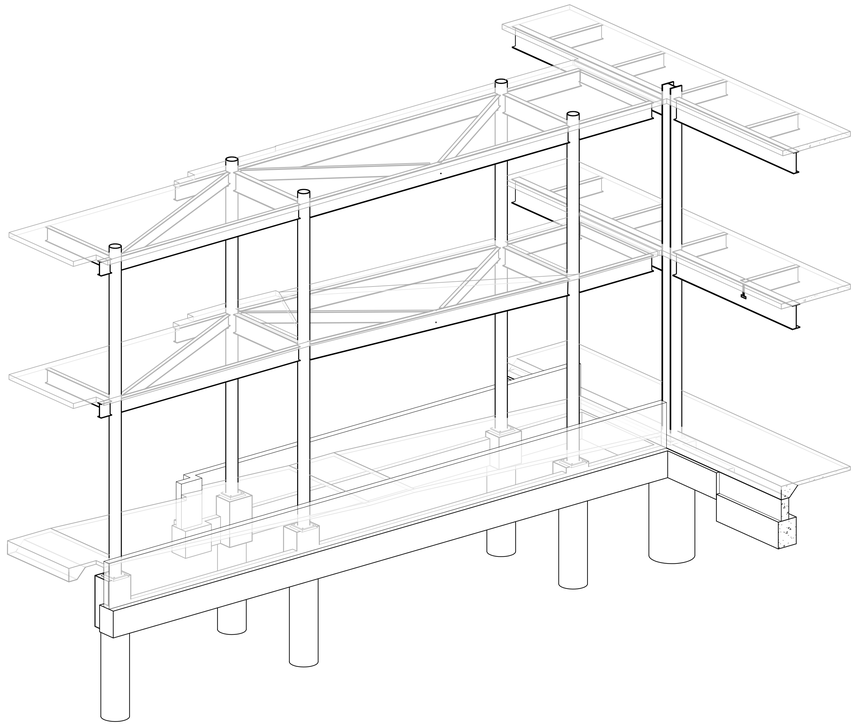
DRAWING NO.: S406
Dwg 34 of 167

Office of Facilities

DEPARTMENT OF VETERANS AFFAIRS



1 3D of ELEVATOR AND CANOPY



2 3D of BRIDGE

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 12571 CASEY DANIEL

1/31/14

CERTIFICATE OF AUTHORIZATION Robbins Engineering PLLC No. 1083 ARKANSAS ENGINEER

ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
3D PERSPECTIVE

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

BUILDING NUMBER 172 | CHECKED CDD | DRAWN MWO

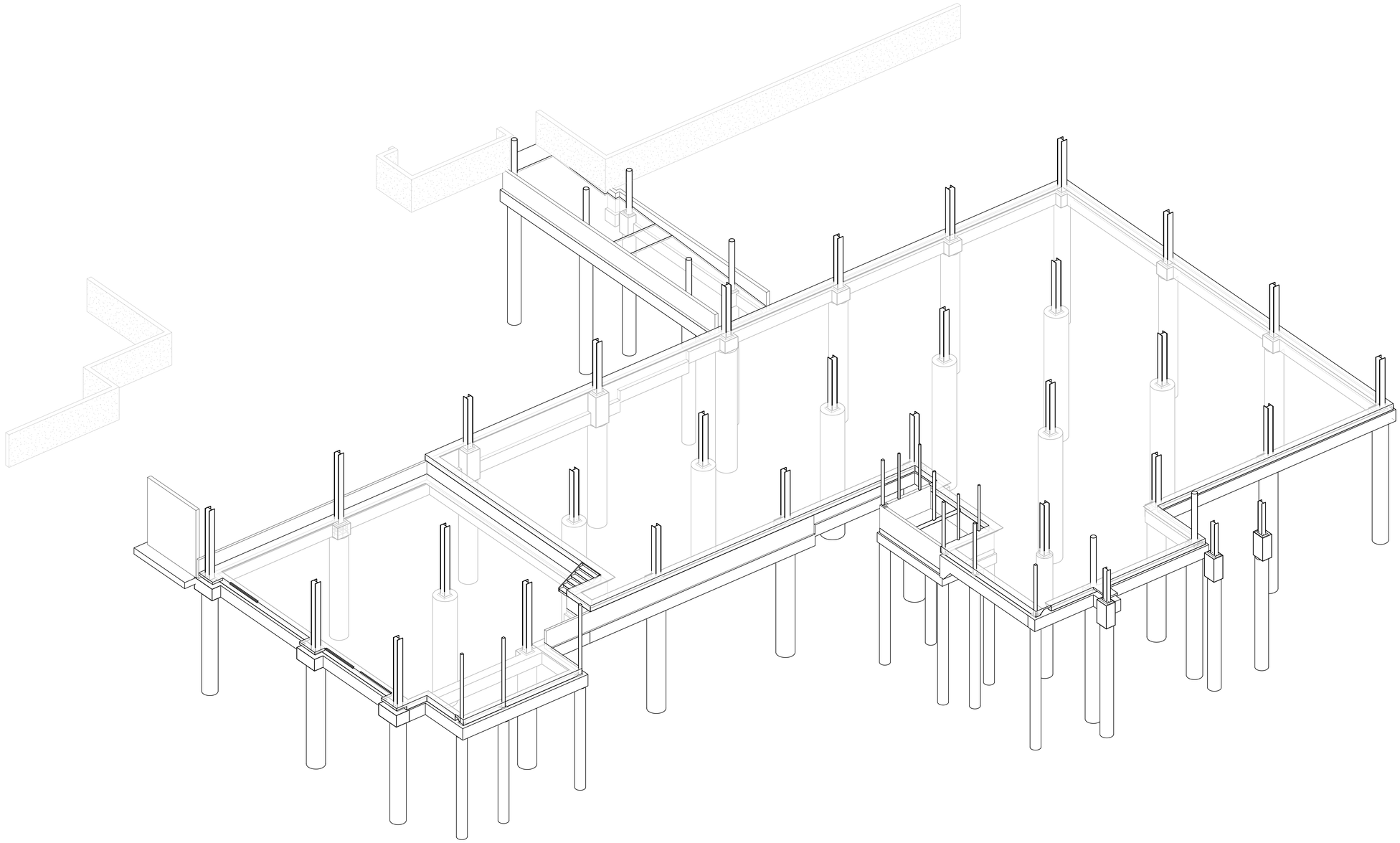
LOCATION
C.A.V.H.S., LR DIVISION

DATE 01 FEBRUARY 2014
VA PROJECT NUMBER VA 256 - P - 1272
TFCG PROJECT NUMBER 84410

DRAWING NO.
S501
Dwg 35 of 167

Office of Facilities

DEPARTMENT OF VETERANS AFFAIRS



1 3D PERSPECTIVE OF FOUNDATION

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 12371 CASEY DANIEL

1/31/14

CERTIFICATE OF AUTHORIZATION Robbins Engineering PLLC No. 1083 ARKANSAS ENGINEER

REC ROBBINS ENGINEERING CONSULTANTS

10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
3D PERSPECTIVE

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

BUILDING NUMBER 172 | CHECKED CDD | DRAWN MWO

LOCATION
C.A.V.H.S., LR DIVISION

DATE
01 FEBRUARY 2014

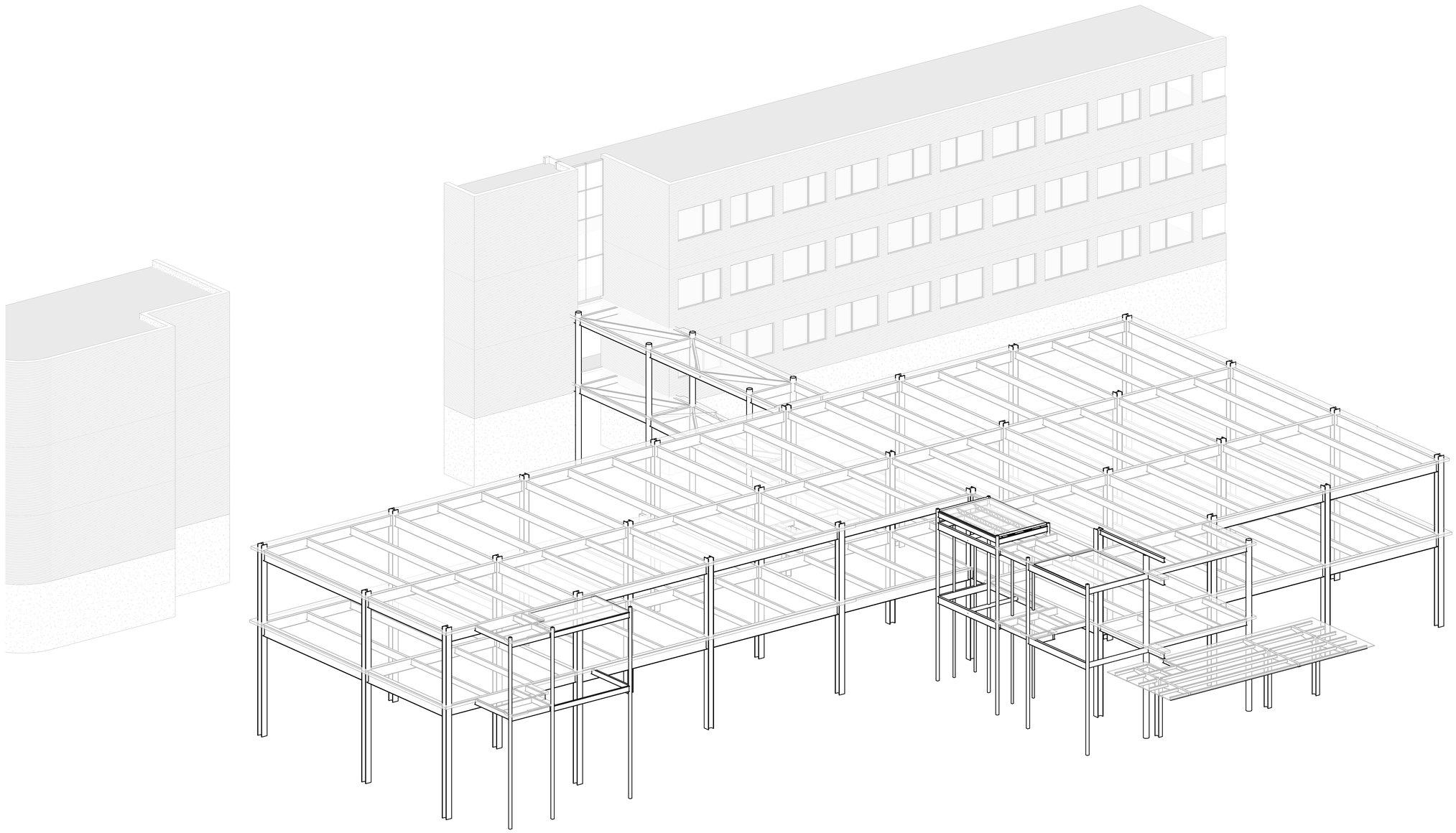
VA PROJECT NUMBER
VA 256 - P - 1272

TFCG PROJECT NUMBER
84410

DRAWING NO.
S502
Dwg 36 of 167

Office of Facilities

DEPARTMENT OF VETERANS AFFAIRS



1 3D PERSPECTIVE OF STRUCTURE

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12371
CASEY DANIEL
1/31/14

Robbins Engineering PLLC
No. 1083
CERTIFICATE OF AUTHORIZATION
ARKANSAS ENGINEER

REC
ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
WWW.ROBBINS-ENGINEERING.COM

NO.	DESCRIPTION	DATE

APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

DRAWING TITLE
3D PERSPECTIVE

PROJECT TITLE
EUGENE J. TOWBIN HEALTHCARE CENTER
NEW SUBSTANCE ABUSE BUILDING

BUILDING NUMBER 172 | CHECKED CDD | DRAWN MWO

LOCATION
C.A.V.H.S., LR DIVISION

DATE
01 FEBRUARY 2014

VA PROJECT NUMBER
VA 256 - P - 1272

TFCG PROJECT NUMBER
84410

DRAWING NO.
S503
Dwg 37 of 167

Office of Facilities

DEPARTMENT OF VETERANS AFFAIRS