

PENTAGON RESERVATION

COMMERCIAL CELLULAR IT
INFRASTRUCTURE PROJECT

4/16/2015

Project Information

Job Title: Commercial Cellular IT Infrastructure Project (CCITIP)
Pentagon, Arlington, VA

Issuing Agency: Pentagon Area CIO Council (PACC)

End Users: Washington Headquarters Services (WHS)

Point of Contacts:

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Washington Headquarters Services (WHS)
Department of Defense (DoD)
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Narrative Description of the Project:

The Pentagon Area CIO Council (PACC) is sponsoring a project to improve cellular coverage on the Pentagon Reservation. The communication radio equipment for Sprint, Verizon Wireless, ATT, and T-Mobile will be located on a structural steel platform located on the roof of the Heating and Refrigeration Plant Chiller Building. The alpha sector antennas and radio heads will be mounted on the structural steel platform for Verizon Wireless. All other sector antennas and radio heads will be mounted on the exhaust stacks on the Heating and Refrigeration Plant Boiler Building. The east and west exhaust stacks will be enclosed with RF stealth material so that the antennas and radio heads will not be visible. The RF cables connecting the radio heads with the radio equipment on the steel platform will be installed under the building roof to minimize maintenance operations on the roof of the chiller and boiler buildings and to reduce visibility of the cables. The Wireless contractor will install a common carrier 200 Kva natural generator in the parking lot northwest of the building.

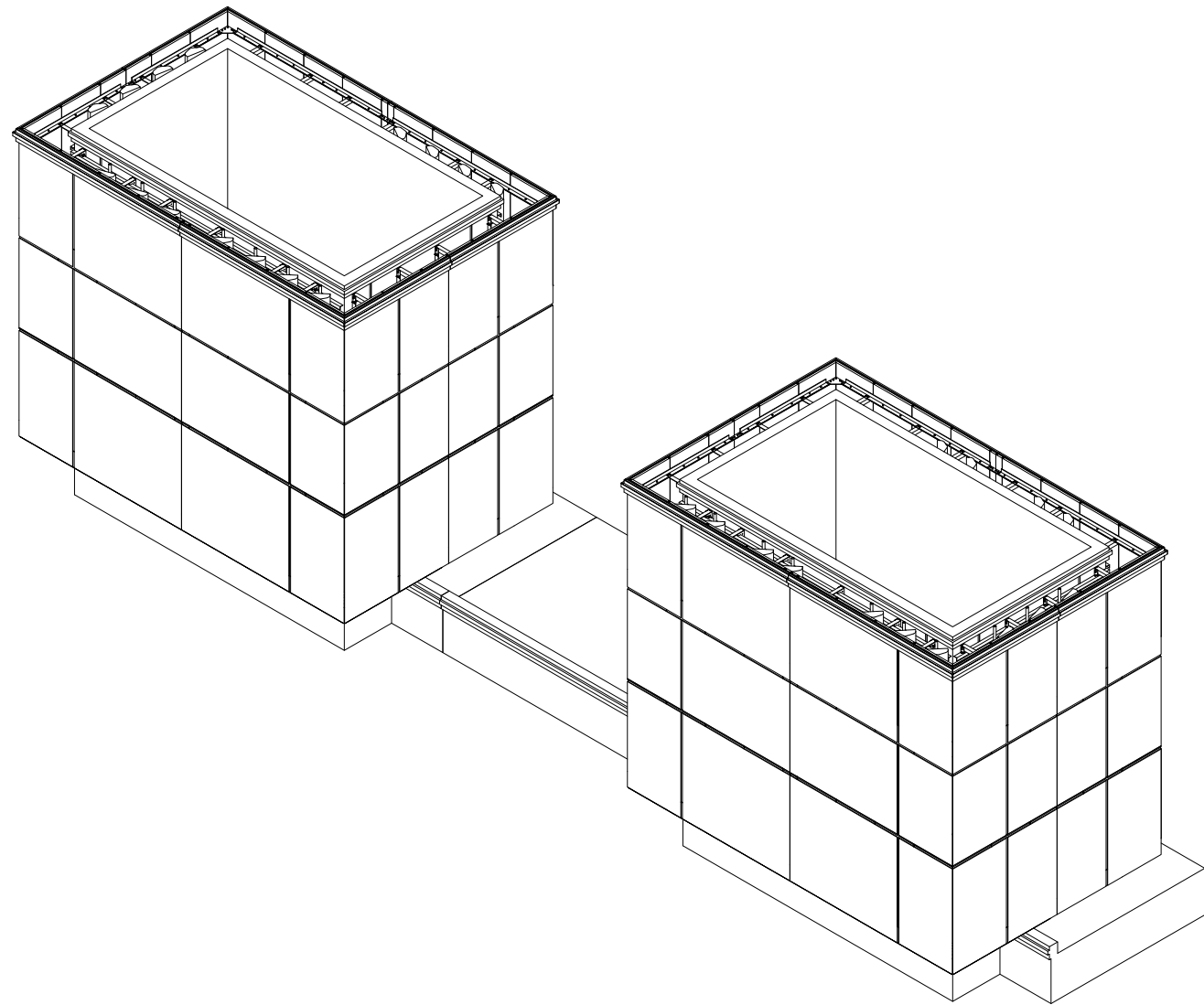


EXISTING (WITHOUT STEALTH PANELS)



SIMULATION

PROPOSED (WITH STEALTH PANELS)



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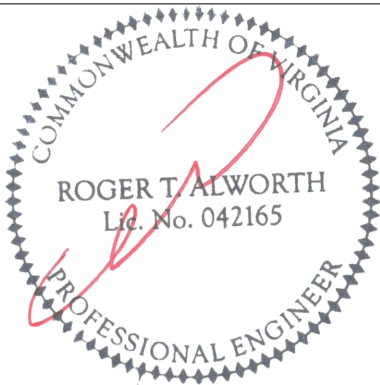
FINAL ENGINEERING

PENTAGON HEATING & REFRIG.
300 BOUNDARY CHANNEL DRIVE
ARLINGTON, VA 22202

STEALTH JOB #: SP12-00270W-17R0

DRAWING INDEX

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Apr 17, 2015



VECTOR
ENGINEERS

9138 S. STATE STREET, SUITE 101
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VA FIRM LICENSE NUMBER: 0413000316

T1

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1-7-15

GENERAL

- THE TYPICAL NOTES SHALL APPLY FOR ALL CASES UNLESS OTHERWISE SPECIFICALLY DETAILED WITHIN THE DRAWINGS. SOME NOTES MAY NOT BE APPLICABLE IN PART OR IN WHOLE FOR EVERY PROJECT.
- ANY ITEMS REFERENCED AS BEING ON "HOLD" ARE TO BE INCLUDED IN THE WORK AS SHOWN. HOWEVER, CONSTRUCTION OR FABRICATION IS NOT TO BEGIN UNTIL THE "HOLD" REFERENCE IS REMOVED.
- DIMENSIONS CONTAINED WITHIN MUST BE FIELD VERIFIED AND CUSTOMER APPROVED PRIOR TO FABRICATION OF MATERIALS.
- THE MODIFICATIONS DEPICTED IN THESE DRAWINGS ARE INTENDED TO PROVIDE STRUCTURAL SUPPORT FOR THE ADDITION OF THE ANTENNA SCREENING SYSTEMS OUTLINED WITHIN. THE EXISTING STRUCTURE OR BUILDING SHALL BE ANALYZED AND RETROFITTED AS REQUIRED, BY OTHERS, TO WITHSTAND THE LOADS IMPOSED BY THE NEW STEALTH® ENCLOSURE SHOWN ON THE DRAWINGS.
- ANTENNA CONCEALMENT PRODUCTS SHALL BE INSTALLED BY A CONTRACTOR EXPERIENCED IN SIMILAR WORK. CARE SHALL BE TAKEN IN THE INSTALLATION OF ANY AND ALL MEMBERS IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS AND PROCEDURES. ALL APPLICABLE OSHA SAFETY GUIDELINES ARE TO BE FOLLOWED. STEALTH® IS NOT PROVIDING FIELD INSTALLATION SUPERVISION.
- THESE DRAWINGS INDICATE THE MAJOR OPERATIONS TO BE PERFORMED, BUT DO NOT SHOW EVERY FIELD CONDITION THAT MAY BE ENCOUNTERED. THEREFORE, PRIOR TO BEGINNING OF WORK THE CONTRACTOR SHOULD SURVEY THE JOB SITE THOROUGHLY TO MINIMIZE FIELD PROBLEMS.
- PROTECTION OF EXISTING STRUCTURES DURING THE COURSE OF THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- THE STRUCTURAL INTEGRITY OF THIS STRUCTURE IS DESIGNED TO BE ATTAINED IN ITS COMPLETED STATE. WHILE UNDER CONSTRUCTION ANY TEMPORARY BRACING OR SHORING WHICH MAY BE REQUIRED TO MAINTAIN STABILITY PRIOR TO COMPLETION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- THE PLANS AND DETAILS WITHIN DO NOT INCLUDE DETAILS OR DESIGN FOR DRAINAGE FROM OR WATERPROOFING OF EXTERIOR OR INTERIOR SURFACES OF THE EXISTING BUILDING OR STRUCTURE. THESE DETAILS MUST BE COMPLETED BY OTHERS.

DESIGN NOTES:

STRUCTURAL DESIGN IS BASED ON THE WASHINGTON HEADQUARTERS SERVICES BUILDING CODE REV. 2 - JANUARY 1, 2014 (2012 IBC) & THE ASCE 7 STANDARD

DESIGN LOADS:

WIND:
BASIC WIND SPEED: 120 MPH (3-SEC GUST) PER THE ASCE 7-10 STANDARD
RISK CATEGORY: IV

STEALTHSKIN PANELS

- FASTENER HOLES IN STEALTHSKIN FOAM COMPOSITE PANELS ARE NOT FACTORY DRILLED AND MUST BE DRILLED IN THE FIELD.
- PANEL FASTENERS TO BE SPACED 12" O.C. MAX. AND LOCATED 6" MAX. HORIZONTALLY FROM EACH EDGE AT TOP AND BOTTOM OF PANEL. MAINTAIN 1 ½" MIN. EDGE DISTANCE FROM ALL EDGES. 4' WIDE PANELS REQUIRE (4) FASTENERS TOP AND BOTTOM. 5' WIDE PANELS REQUIRE (4) FASTENERS TOP AND BOTTOM. CORNER PANELS REQUIRE (3) FASTENERS TOP AND BOTTOM PER SIDE.
- WHEN FASTENER BOLT HEAD OR NUT BEARS DIRECTLY ON SURFACE OF STEALTHSKIN PANEL, TIGHTEN PANEL BOLTS ONLY ½ TURN PAST SNUG. APPLY THREAD LOCK COMPOUND TO THE THREADS OF METAL BOLTS. USE THIN BEAD OF EPOXY TO LOCK THE NUTS OF FRP BOLTS AND STEALTH® STAINLESS STEEL PANEL BOLTS. USE WASHER OR FLANGED HEAD BOLT, OR FASTENER WITH LARGE BEARING SURFACE.
- PANELS WILL EXPAND AND CONTRACT DUE TO TEMPERATURE. WHEN INSTALLING PANELS IN COLD TEMPERATURES, EVENLY SPACE PANELS ALONG LENGTH OF SCREEN WALL WITH EQUAL GAPS BETWEEN PANELS TO ALLOW FOR EXPANSION DURING WARM TEMPERATURES.
- ADJACENT FLAT PANELS ARE JOINED BY A VERTICAL FOAM SPLINE THAT IS INSERTED INTO GROOVES CUT INTO THE SIDE OF EACH PANEL. DO NOT LIFT PANELS BY GROOVES. PANELS MUST BE LIFTED WITH FORCE DIRECTED ONTO PANEL SURFACE.
- ADJACENT RADIUS PANELS ARE JOINED BY A VERTICAL H-CHANNEL. INSERT PANELS INTO EACH SIDE OF H-CHANNEL.
- RADIUS PANELS MUST BE EVENLY SPACED ALONG RADIUS SUPPORT. CONTRACTOR TO MEASURE LENGTH OF RADIUS SUPPORT AND DIVIDE BY THE NUMBER OF RADIUS PANELS TO DETERMINE PROPER SPACING. H-CHANNEL CONNECTORS ARE USED TO COVER THE GAP BETWEEN PANELS AND TO ALLOW FOR PANEL EXPANSION AND CONTRACTION.
- SURFACES OF PANELS SHALL BE COATED WITH SUITABLE PAINT FOR UV PROTECTION. TOP EDGE OF PANEL MUST BE COVERED TO PREVENT WATER TRAVEL BETWEEN PANELS. USE SHERWIN WILLIAMS "COROTHANE II" OR PRE APPROVED EQUIVALENT.
- EXPOSED TOP AND SIDE FOAM EDGES OF PANELS MUST BE COVERED OR COATED FOR UV PROTECTION. STEALTH® WILL PROVIDE PANEL EDGE CAPS TO BE FIELD APPLIED FOR THIS PURPOSE FOR MOST APPLICATIONS. PANEL EDGE CAPS TO BE SECURED WITH TEK SCREW INSTALLED @ 12" MAXIMUM SPACING ON THE INSIDE FACE OF THE PANEL.

DESIGN REACTIONS (ASD): (SEE SHEET S1 FOR LOCATIONS)

P1 = 450 lbs (1.0 DEAD)
P2 = 225 lbs (1.0 DEAD)
V1 =1600 lbs (0.6 WIND)
V2 = 850 lbs (0.6 WIND)

APPROXIMATE WEIGHT OF ASSEMBLY (EXCLUDING ANTENNA, MOUNTS, AND COAX): 15,000 lbs
EA. ASSEMBLY, TYP. OF (2)

THE DESIGN REACTIONS ARE TYPICAL AT EACH OUTRIGGER. THE DESIGN REACTIONS 'V' ARE CONSIDERED TO ACT IN ANY HORIZONTAL DIRECTION. THE CONNECTION TO THE EXISTING STRUCTURE TO BE BY OTHERS. THE ADEQUACY OF THE EXISTING STRUCTURE TO SUPPORT THE CONCEALMENTS MUST BE DETERMINED BY OTHERS.

DESIGN:

- ENGINEERING AND DESIGN CALCULATIONS FOR STEALTH® POLE AND TOWER PRODUCTS ARE PREPARED IN ACCORDANCE WITH THE LATEST VERSION OF THE TIA/EIA-222. OTHER STRUCTURES ARE DESIGNED IN ACCORDANCE WITH APPLICABLE LOCAL OR NATIONAL STANDARDS AND PER CLIENT INPUT.

STRUCTURAL STEEL

- STEEL FABRICATION AND INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL AND SPECIFICATIONS.
- STEEL I-SHAPE, ANGLE, CHANNEL, AND MISCELLANEOUS MEMBERS SHALL CONFORM TO ASTM A36 (36 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS, U.N.O.
- STEEL PLATE MEMBERS SHALL CONFORM TO ASTM A36 (36 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS U.N.O.
- STEEL PIPE AND ROUND TUBE MEMBERS SHALL CONFORM TO ASTM A500 GRADE B (42 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS, U.N.O.
- STEEL RECTANGULAR AND SQUARE TUBE MEMBERS SHALL CONFORM TO ASTM A500 GRADE B (46 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS, U.N.O.
- STEEL WIDEFLANGE MEMBERS SHALL CONFORM TO ASTM A992 (50 KSI MIN, YIELD STRENGTH) STEEL SPECIFICATIONS U.N.O.
- BOLTS SHALL BE DOMESTIC, NEW HIGH STRENGTH GALVANIZED BOLTS, BEARING TYPE "X" (THREADS EXCLUDED), U.N.O., AND SHALL CONFORM TO ASTM A325 SPECIFICATIONS, U.N.O.
- STRUCTURAL BOLTS SHALL BE TIGHTENED USING TURN-OF-THE-NUT METHOD.
- BOLT HOLE EDGE DISTANCES SHALL BE A MINIMUM 1", U.N.O.
- ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND PROCEDURES OF THE AMERICAN WELDING SOCIETY (AWS) BY CERTIFIED WELDERS PER AWS D1.1 FOR STEEL AND AWS D1.2 FOR ALUMINUM. ALL WELDING SHALL BE PERFORMED IN A SHOP APPROVED BY THE BUILDING OFFICIAL. STEEL WELDS SHALL BE BY E70XX, LOW HYDROGEN ELECTRODES.
- STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123 SPECIFICATIONS AFTER FABRICATION OR PAINTED WITH RUST INHIBITIVE PRIMER.
- STEEL HARDWARE SHALL BE HOT DIP GALVANIZED PER ASTM A153, U.N.O.
- AFTER ANY FIELD HOLE PUNCHING / DRILLING OR CUTTING HAS BEEN COMPLETED, OR FOR ANY DAMAGED STRUCTURAL MEMBER, TOUCH UP ALL BARE MATERIAL AND WELDED AREAS WITH TWO COATS OF GAL-CON OR SIMILAR MATERIAL TO RESTORE THE GALVANIZED PROTECTION ON THE MEMBERS.
- ALL WELDED STEEL ASSEMBLIES AND INDIVIDUAL STEEL PARTS SHOULD HAVE THE PART NUMBER WELDED ONTO THE PART OR ASSEMBLY. THE PART NUMBERS SHOULD BE LOCATED CONSISTENTLY AND AWAY FROM ANY CONNECTION POINT TO AVOID ANY INTERFERENCE ISSUES WITH THE WELD.

FRP STRUCTURAL MEMBERS

- FRP STRUCTURAL SHAPES SHALL BE STEALTH FRP SERIES 1525, MANUFACTURED USING THE PULTRUSION PROCESS.
- IF PREFABRICATED MEMBERS DO NOT ASSEMBLE PER PLAN, CONTACT STEALTH® CONCEALMENT SOLUTIONS, INC. BEFORE CUTTING OR ALTERING FABRICATED MEMBERS.
- FRP STRUCTURAL MEMBERS SHALL BE FABRICATED AND ASSEMBLED AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL PROTECT THE FRP STRUCTURAL MEMBERS FROM ABUSE TO PREVENT BREAKAGE, NICKS, GOUGES, ETC. DURING FABRICATION, HANDLING, AND INSTALLATION.
- FRP BOLTS SHOULD BE TIGHTENED ½ TURN PAST SNUG AND LOCKED WITH EPOXY.

DISCLAIMERS:

- ALL STRUCTURAL COMPONENTS TO BE CONNECTED TOGETHER SHALL BE COMPLETELY FIT UP ON THE GROUND OR OTHERWISE VERIFIED FOR COMPATIBILITY PRIOR TO LIFTING ANY COMPONENT INTO PLACE. REPAIRS REQUIRED DUE TO FIT-UP OR CONNECTION COMPATIBILITY PROBLEMS AFTER PARTIAL ERECTION ARE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.

SPECIAL INSPECTIONS & STRUCTURAL OBSERVATION:

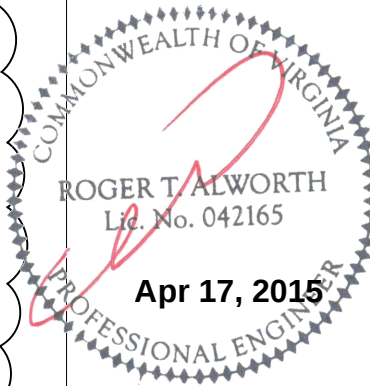
- STEEL FABRICATION SHALL BE DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED AS REQUIRED BY THE IBC TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.
- NO FIELD WELDING SHALL BE PERMITTED.
- THE FOLLOWING SPECIAL INSPECTIONS (WHERE APPLICABLE) SHALL BE REQUIRED PER CHAPTER 17 OF THE IBC.
 - PERIODIC SPECIAL INSPECTION OF HIGH-STRENGTH BOLTING
- NO STRUCTURAL OBSERVATION IS REQUIRED.



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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

TOLERANCES	
DECIMALS	ANGULAR
X ± 1/16"	X ± 0.5°
.xxx ±.010"	
DO NOT SCALE DRAWING	

NOTES & SPECIFICATIONS

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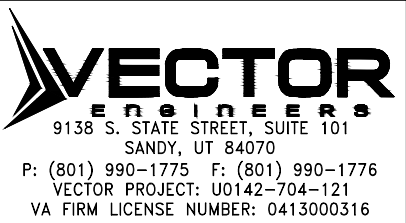
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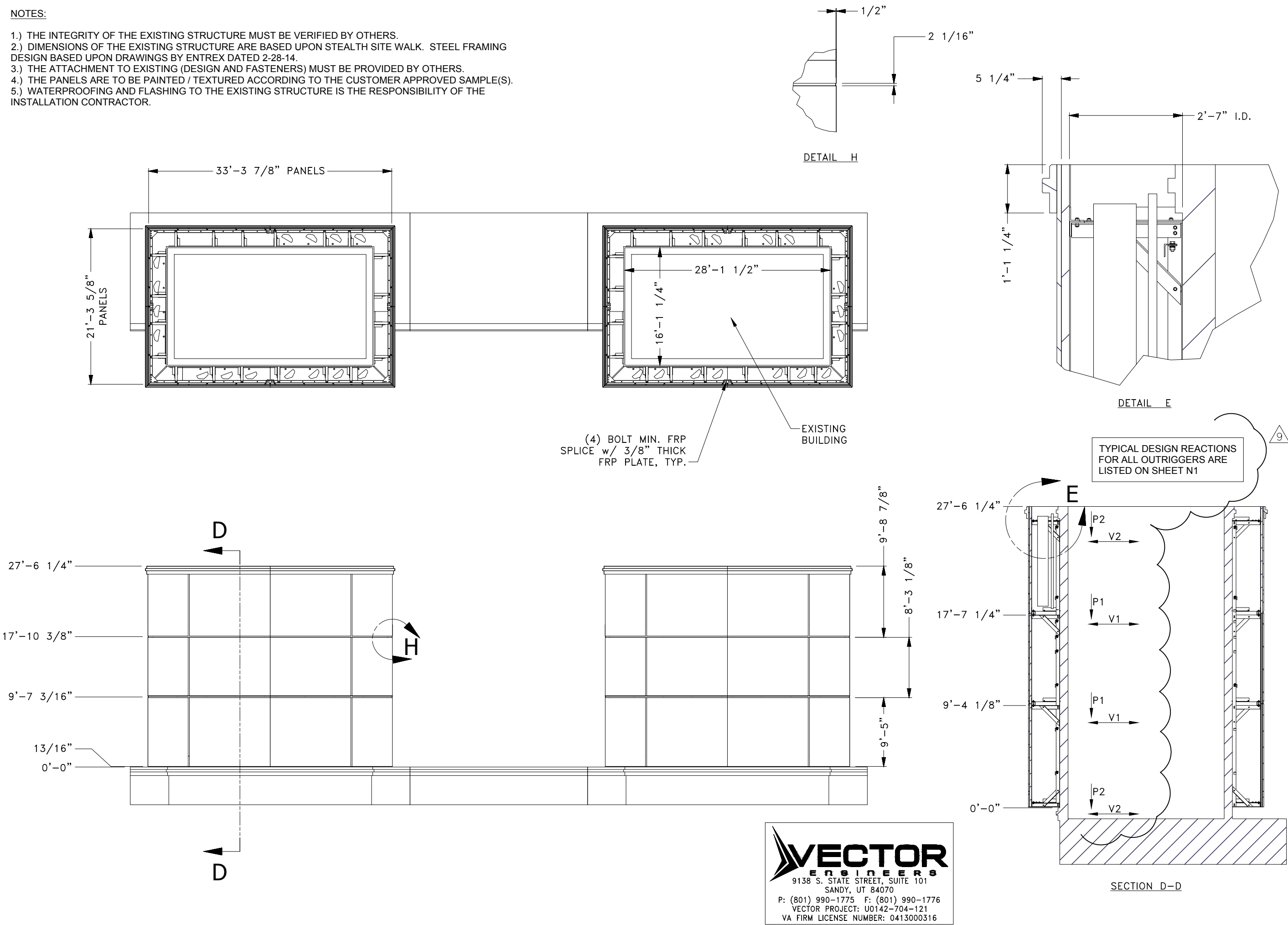
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- NOTES:
- 1.) THE INTEGRITY OF THE EXISTING STRUCTURE MUST BE VERIFIED BY OTHERS.
 - 2.) DIMENSIONS OF THE EXISTING STRUCTURE ARE BASED UPON STEALTH SITE WALK. STEEL FRAMING DESIGN BASED UPON DRAWINGS BY ENTREX DATED 2-28-14.
 - 3.) THE ATTACHMENT TO EXISTING (DESIGN AND FASTENERS) MUST BE PROVIDED BY OTHERS.
 - 4.) THE PANELS ARE TO BE PAINTED / TEXTURED ACCORDING TO THE CUSTOMER APPROVED SAMPLE(S).
 - 5.) WATERPROOFING AND FLASHING TO THE EXISTING STRUCTURE IS THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.



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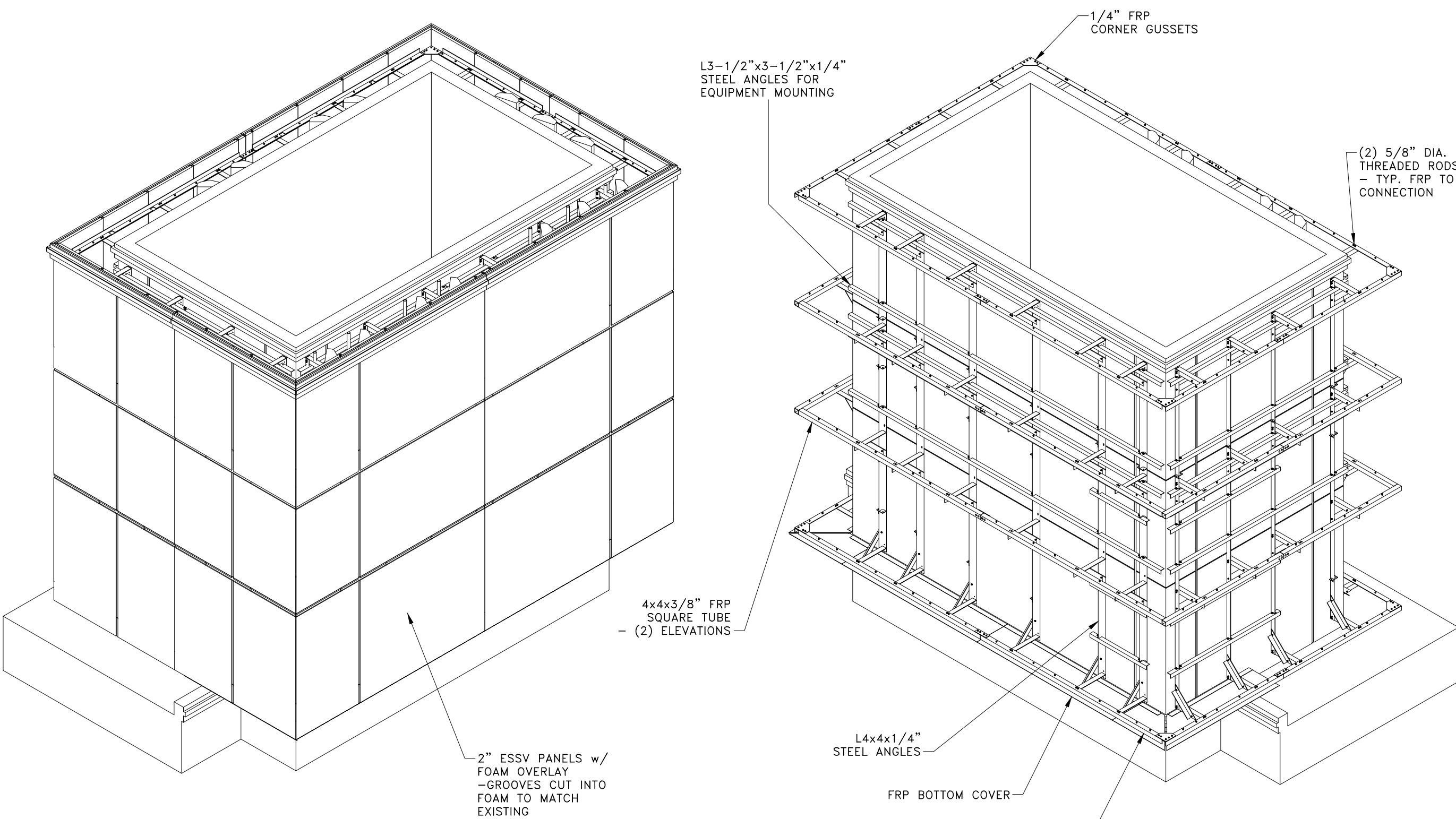
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TOLERANCES	
DECIMALS	ANGULAR
X ± 1/16"	X ± 0.5°
.XXX ± 0.01"	

ASSEMBLY - ELEVATIONS	
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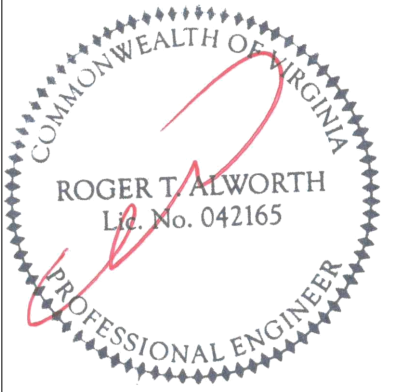




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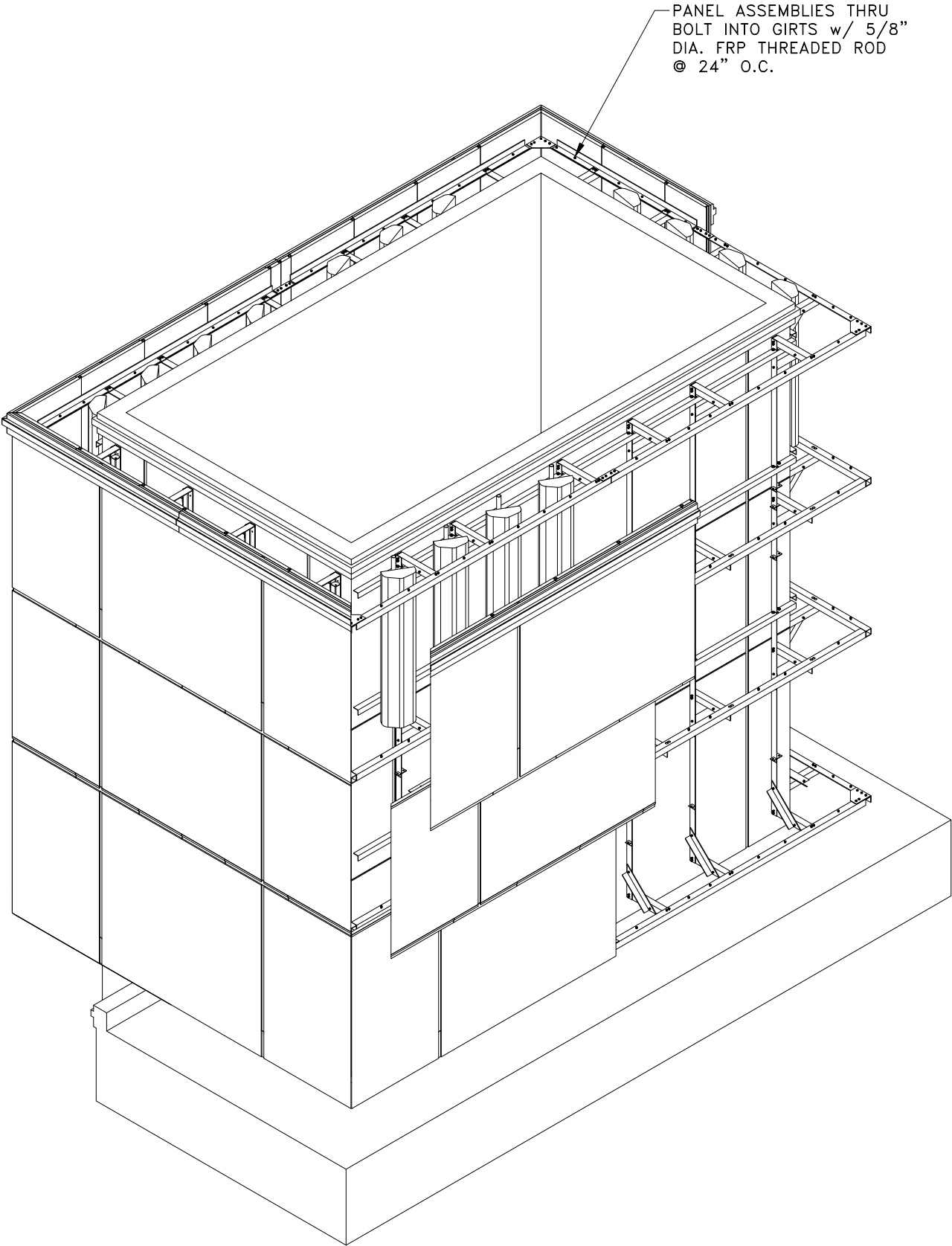
ASSEMBLY - ELEVATIONS

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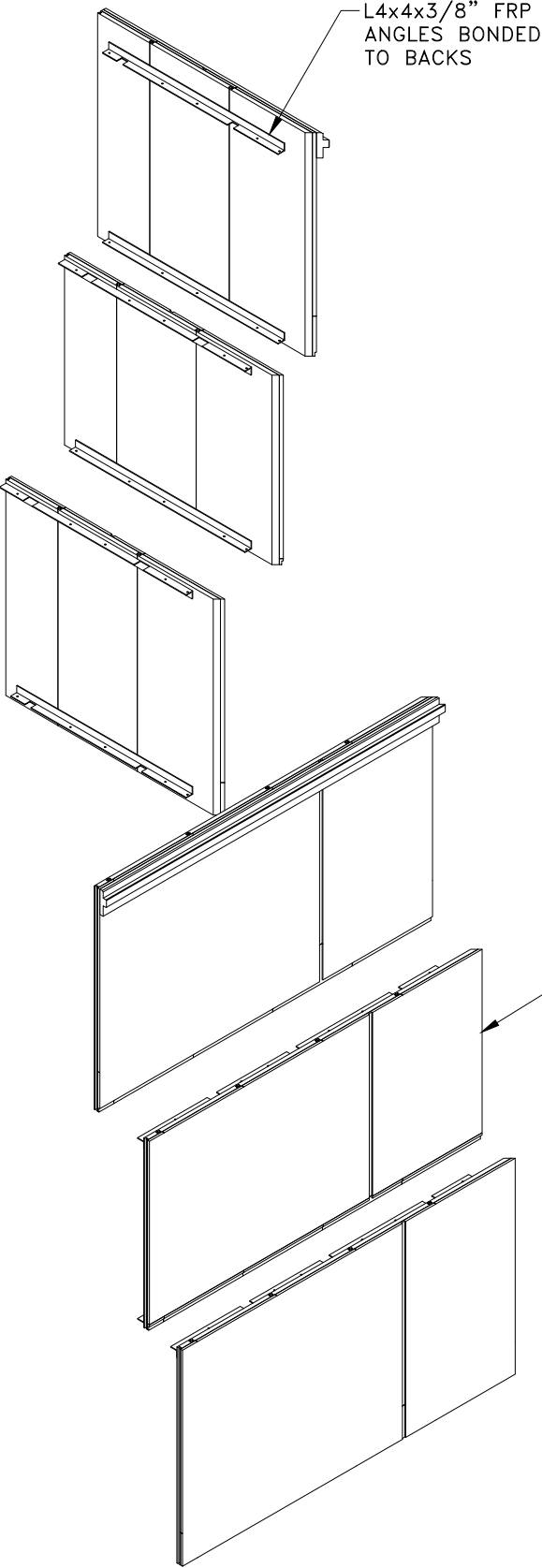


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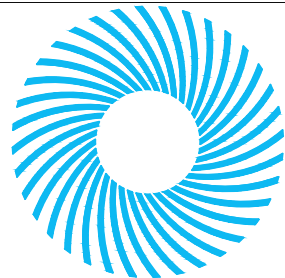


PANEL ASSEMBLIES THRU
BOLT INTO GIRTS w/ 5/8" DIA. FRP THREADED ROD
@ 24" O.C.



L4x4x3/8" FRP
ANGLES BONDED
TO BACKS

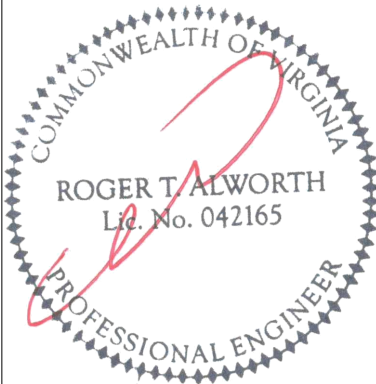
FULLY BONDED
PANEL ASSEMBLIES



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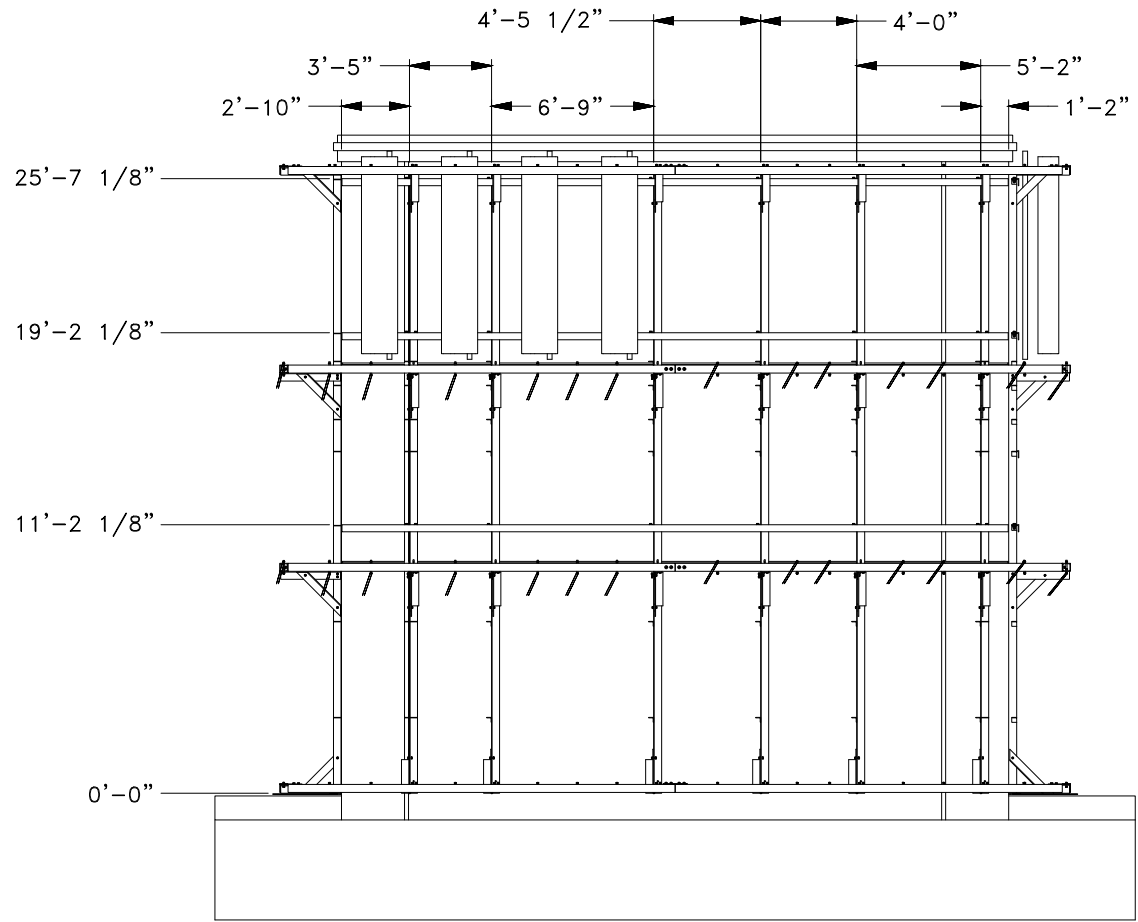
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ASSEMBLY - ELEVATIONS

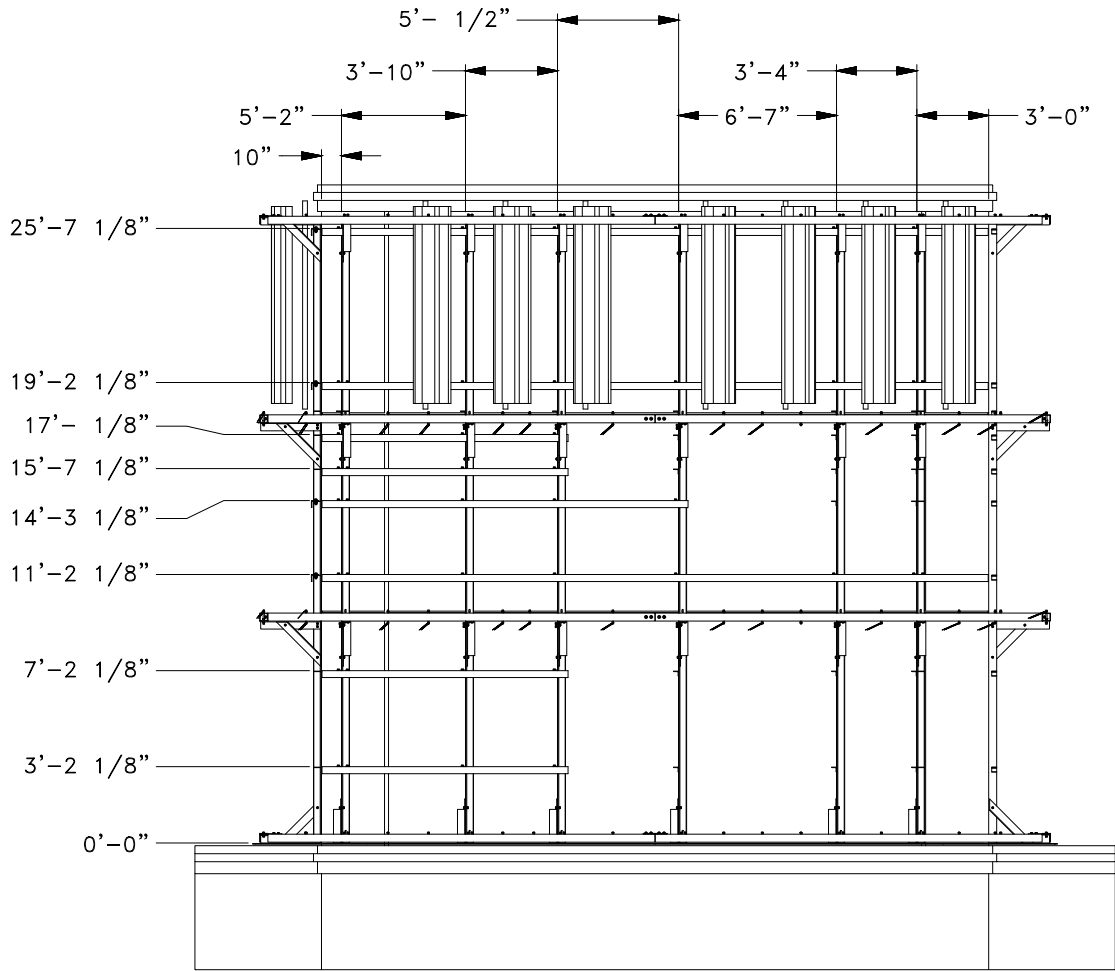
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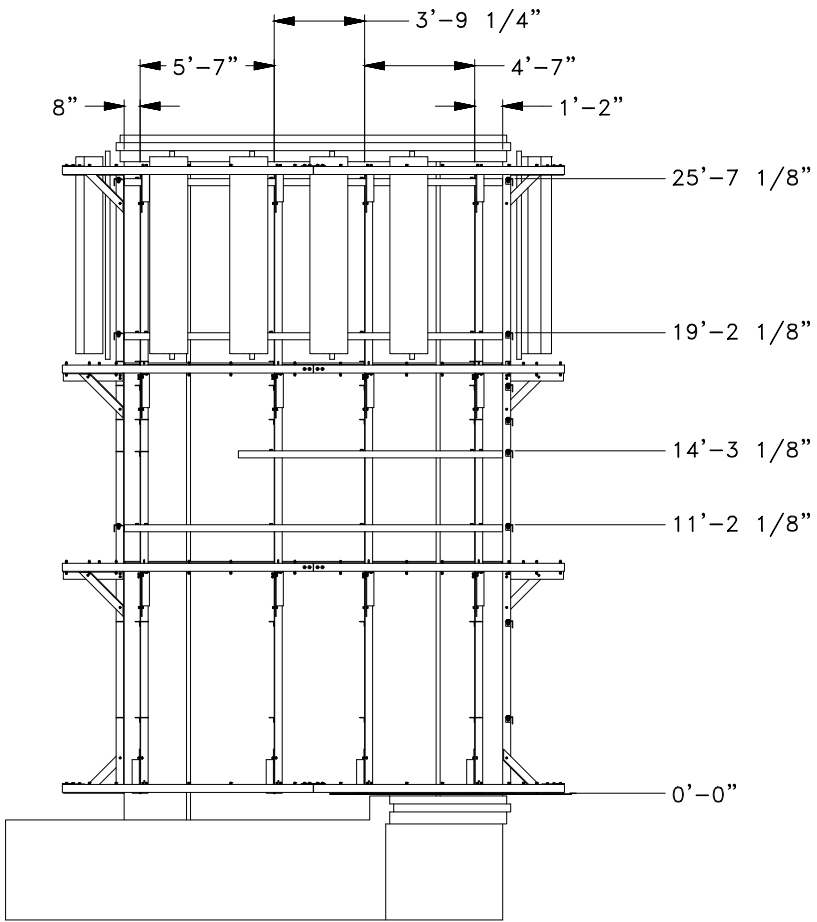
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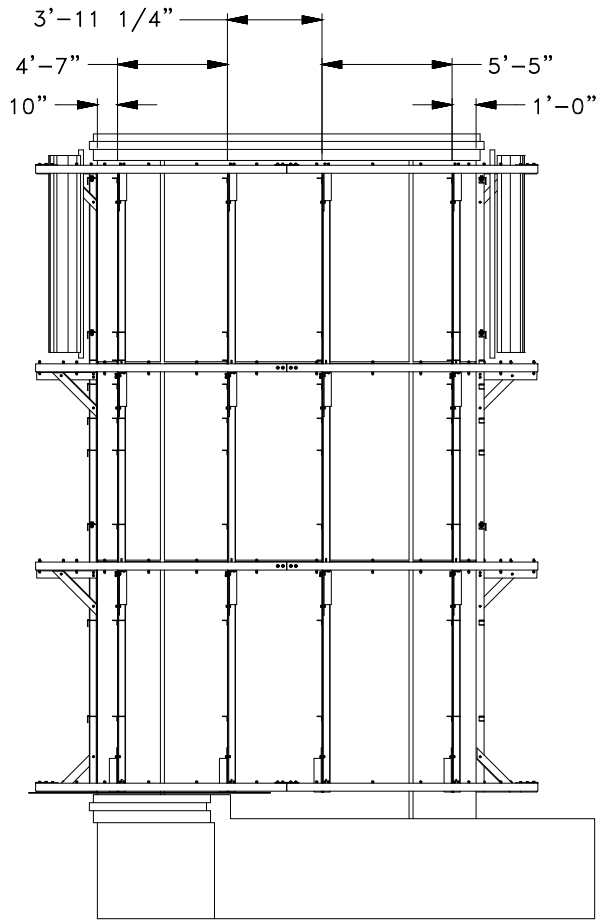
SOUTHEAST ELEVATION



NORTHWEST ELEVATION

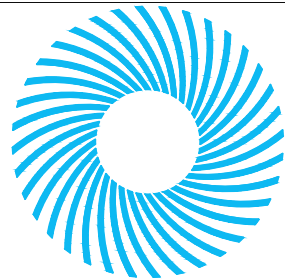


NORTHEAST ELEVATION



SOUTHWEST ELEVATION

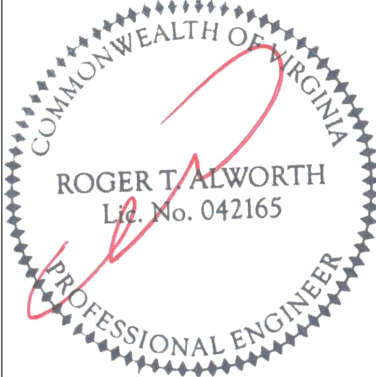
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TOLERANCES

DECIMALS
X ± 1/16"
.XXX ± 0.01"

ANGULAR
X ± 0.5°

EAST WALL FRAME LAYOUT

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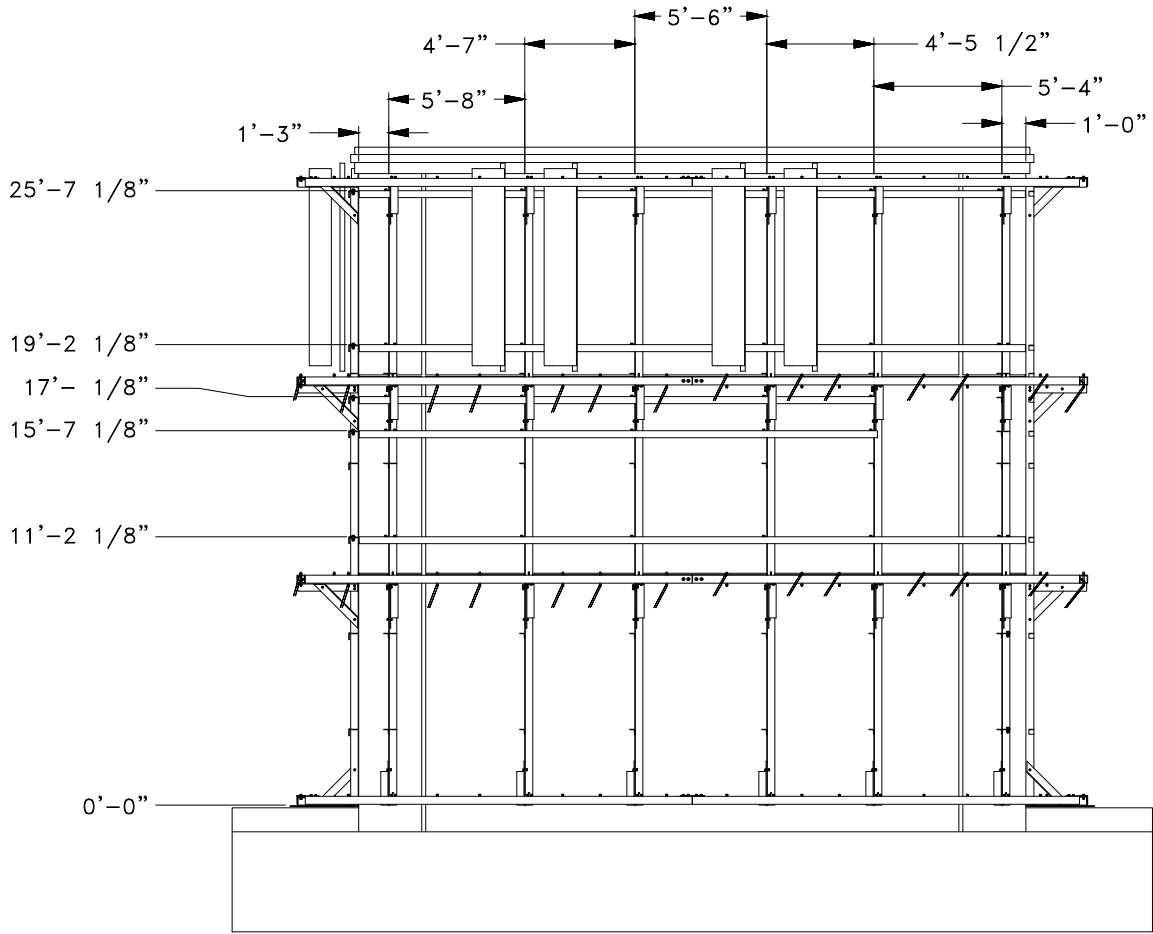
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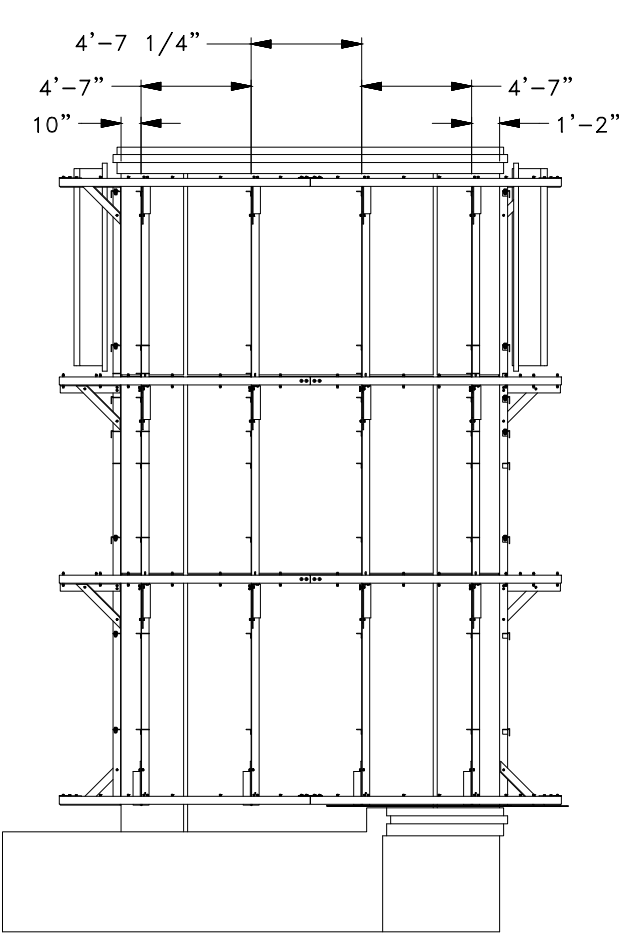
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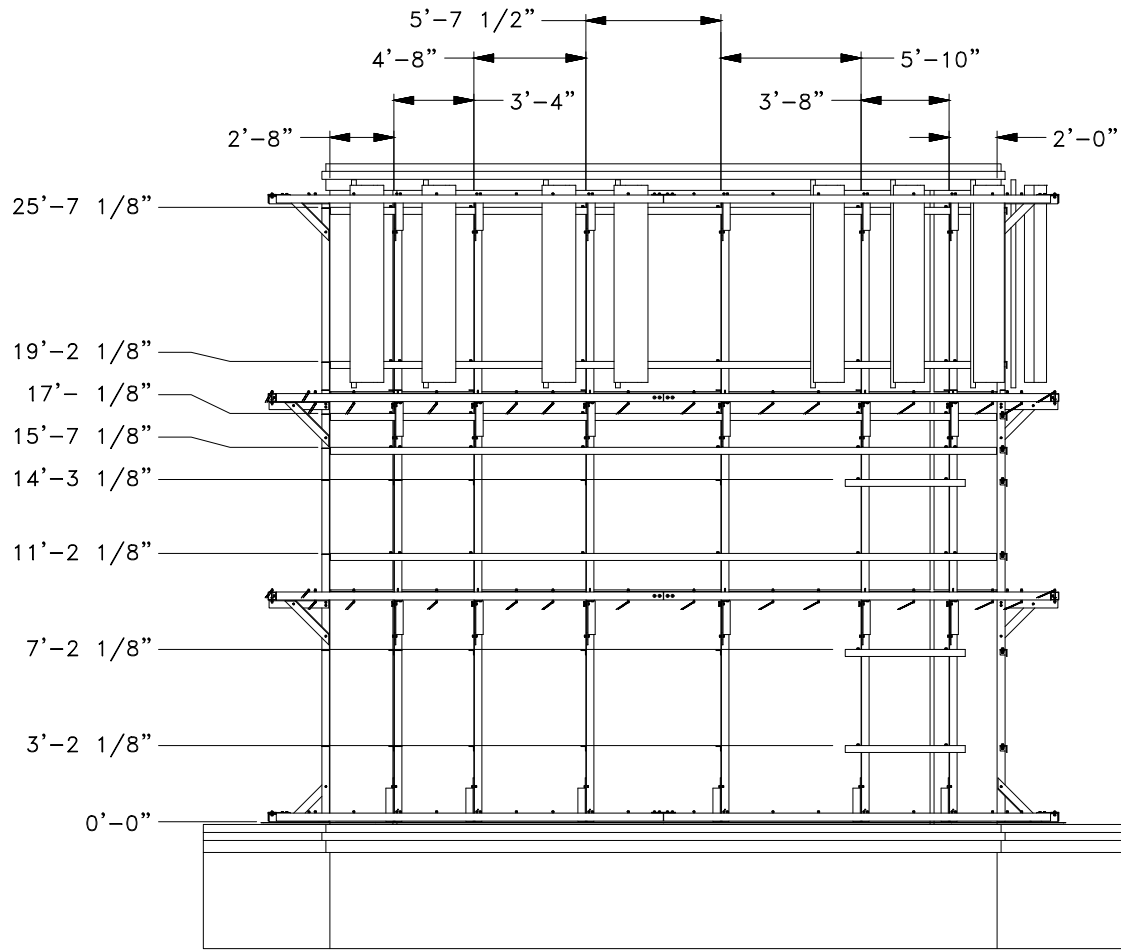
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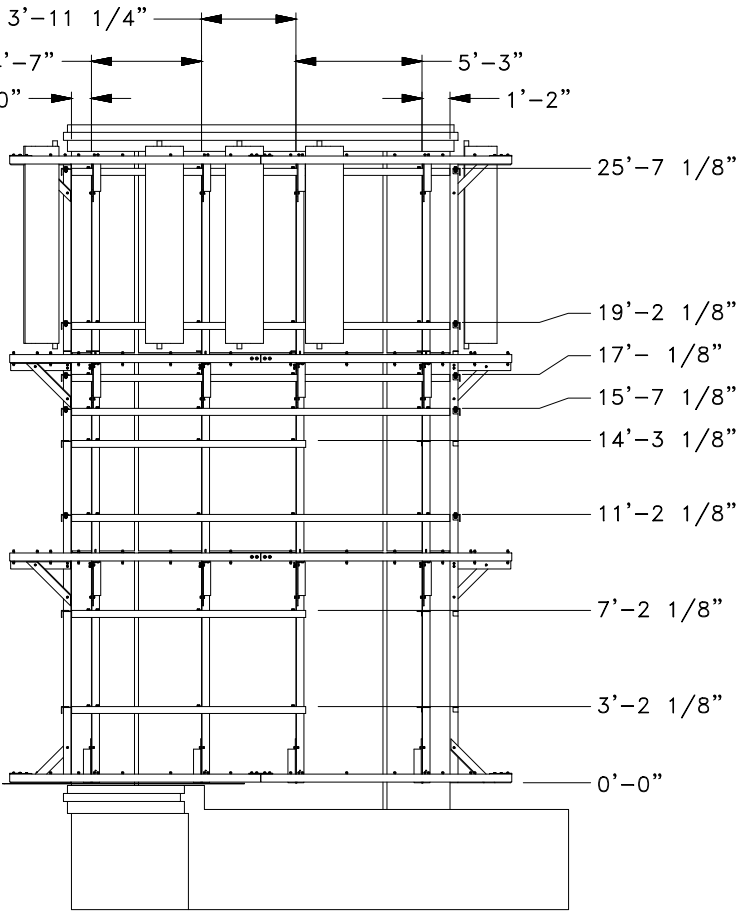
SOUTHEAST ELEVATION



NORTHEAST ELEVATION

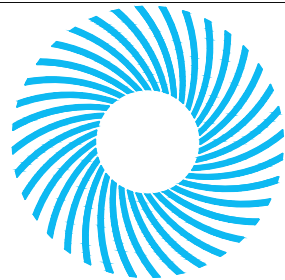


NORTHWEST ELEVATION



SOUTHWEST ELEVATION

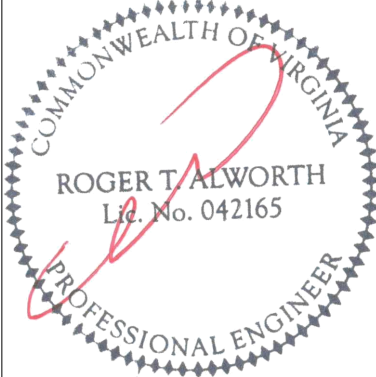
WEST WALL



STEALTH®
FIRST IN CONCEALMENT™

3034-A ASHLEY PHOSPHATE RD.
NORTH CHARLESTON, SC 29418
P: (800)-755-0689 F: (843)-207-0207
WWW.STEALTHCONCEALMENT.COM

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Apr 17, 2015

DRAWING NOT TO SCALE. UNLESS SPECIFIED
OTHERWISE DIMENSIONS SHOWN ARE IN INCHES

TOLERANCES

DECIMALS
X ± 1/16"
.XXX ± 0.01"

ANGULAR
X ± 0.5°

WEST WALL FRAME LAYOUT

PENTAGON HEATING & REFRIG.
300 BOUNDARY CHANNEL DRIVE
ARLINGTON, VA 22202

VECTOR
ENGINEERS
9138 S. STATE STREET, SUITE 101
SANDY, UT 84070
P: (801) 990-1775 F: (801) 990-1776
VECTOR PROJECT: U0142-704-121
VA FIRM LICENSE NUMBER: 0413000316

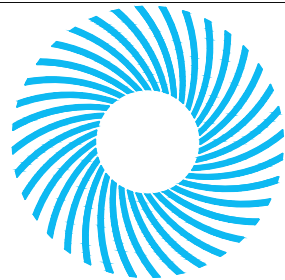
JOB #: SP12-00270W-17R0
DRAWN: BK
DESIGNED: BK
REVISED: MEG-VSE

S6

1-7-15

REVISION

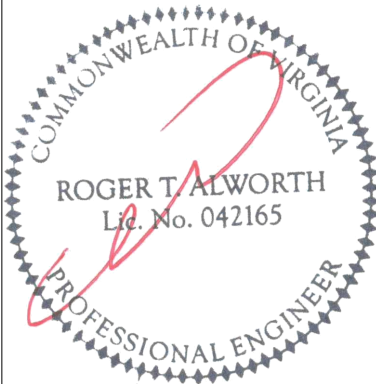
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OTHERWISE DIMENSTONS SHOWN ARE IN INCHES

DECIMALS	TOLERANCES
X ± 1/16"	ANGULAR X ± 0.5°
.XXX ± 0.01"	

ASSEMBLY - ELEVATIONS

PENTAGON HEATING & REFRIG.
300 BOUNDRY CHANNEL DRIVE
ARLINGTON, VA 22202

JOB #: SP12-00270W-17R0
DRAWN: BK
DESIGNED: BK
REVISED: MEG-VSE

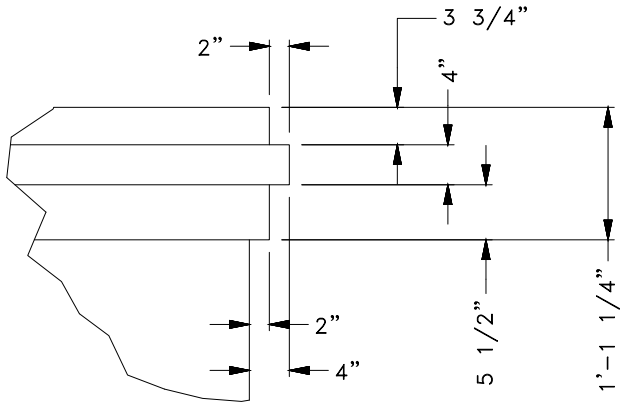
S7

1-7-15

REVISION

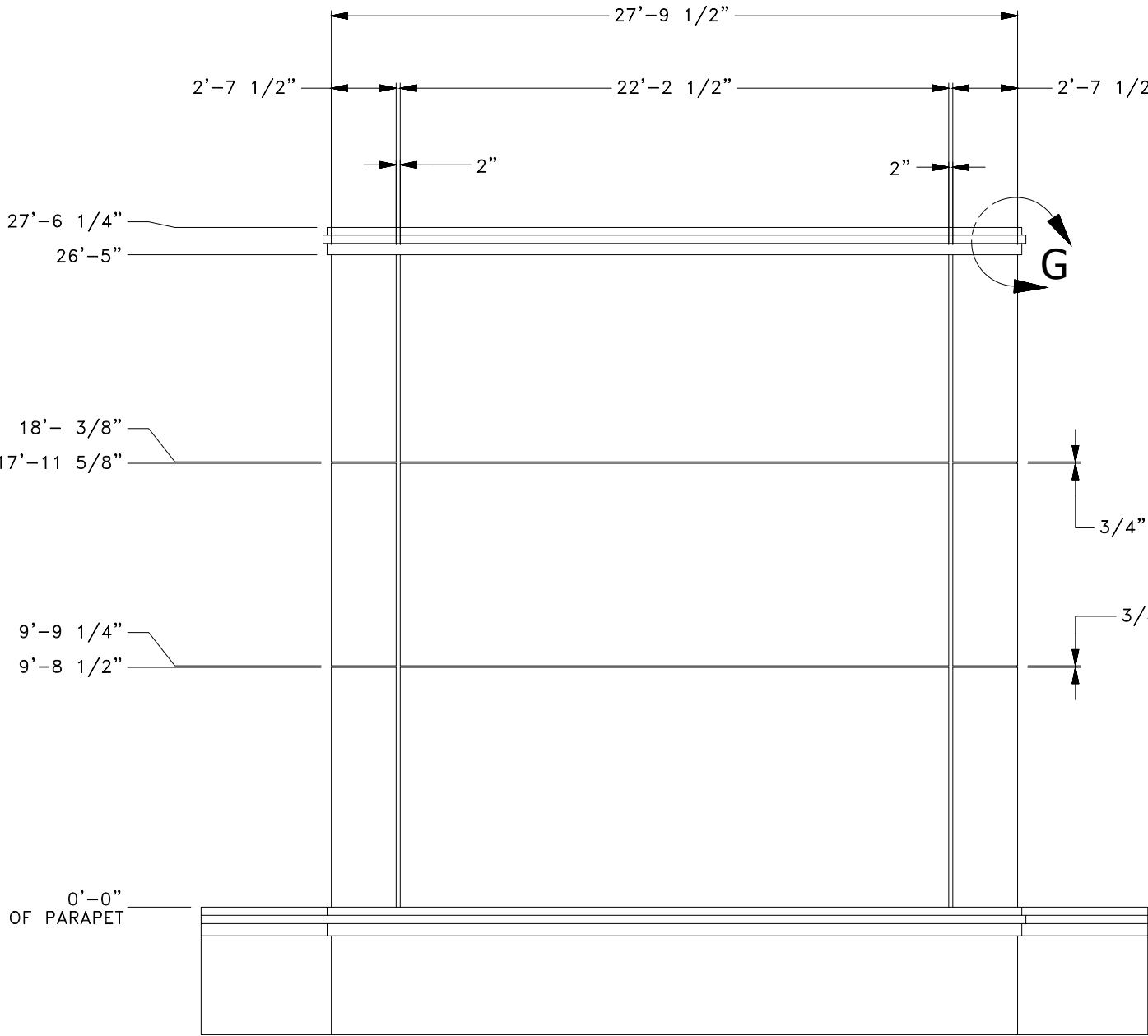
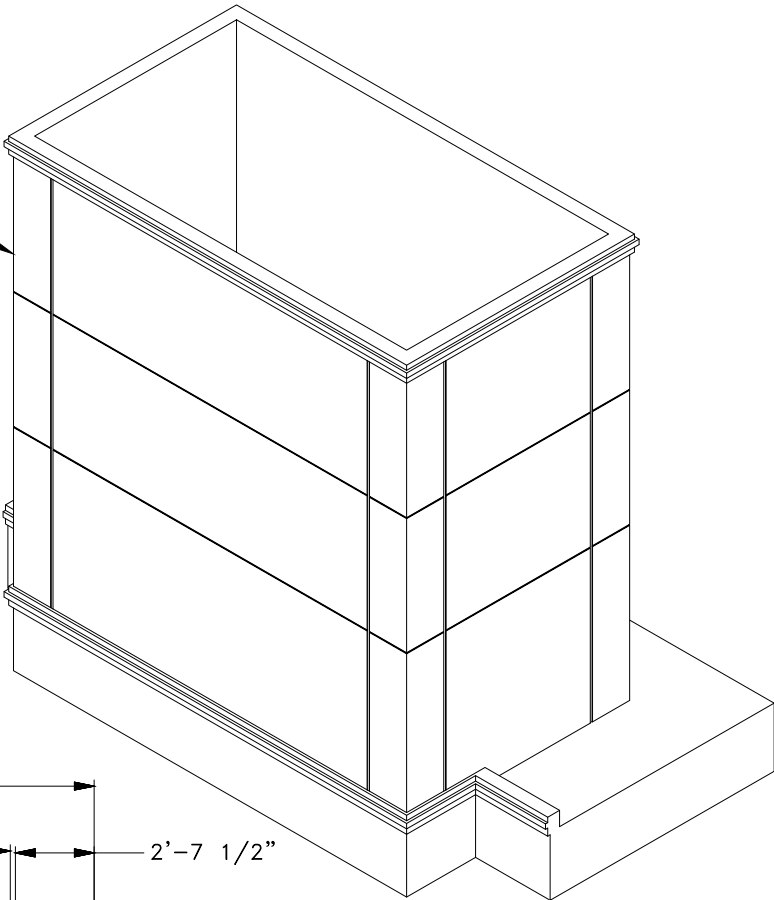
9

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DETAIL G

EXISTING BUILDING



EXISTING BUILDING

