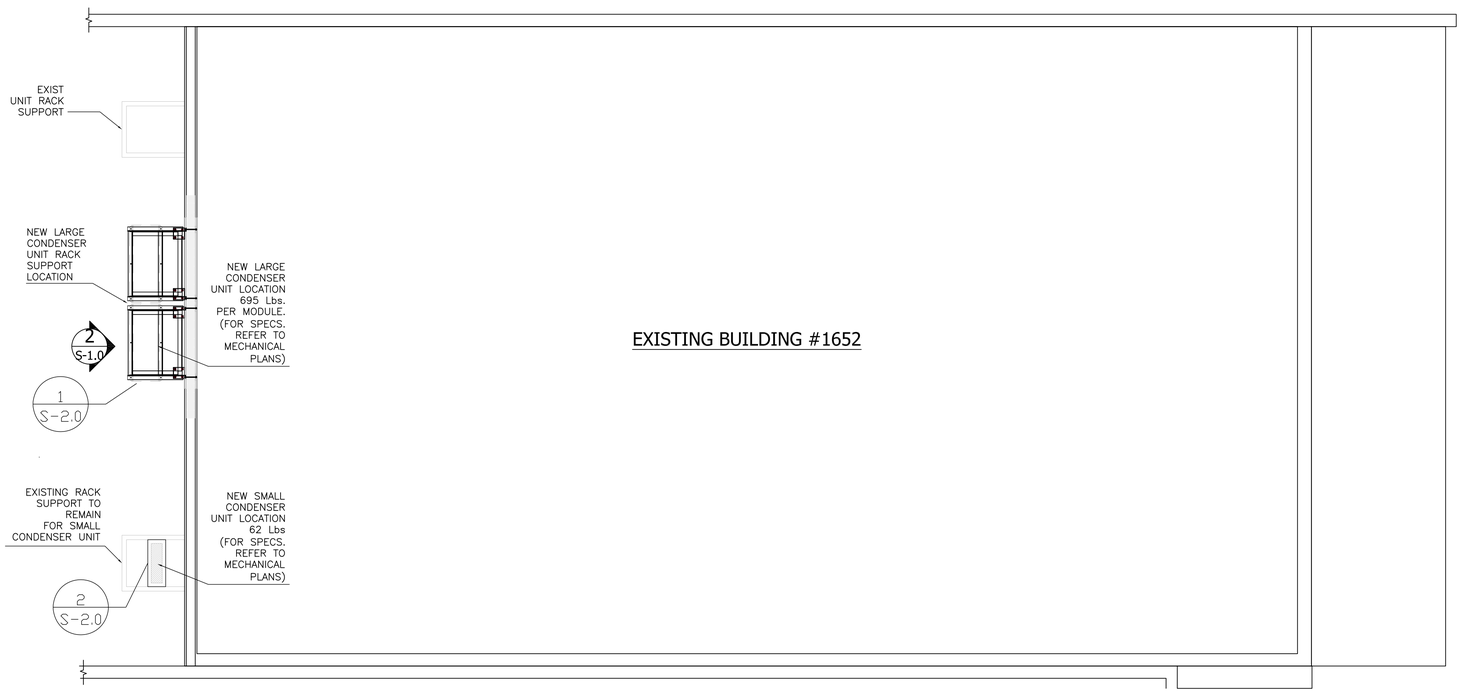
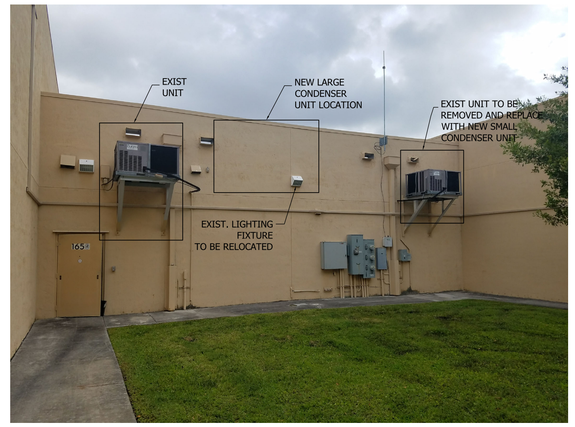


ROOF PLAN

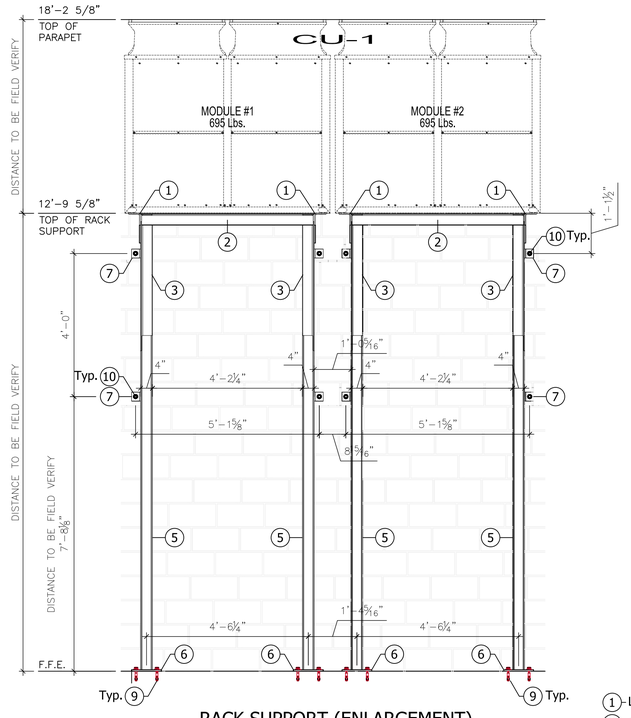
1 WALL MOUNTED CONDENSING UNIT LOCATIONS

Scale: 3/16" : 1'-0"



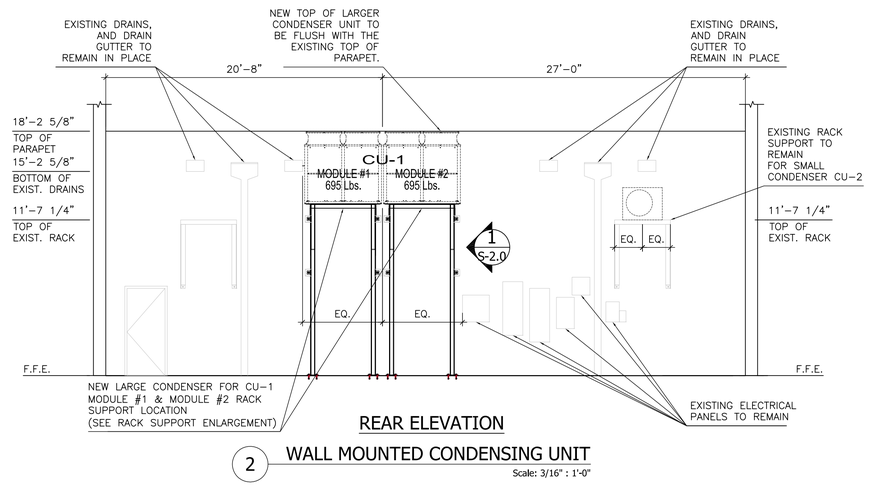
2 EXISTING CONDITIONS & NEW LOCATIONS

Scale: NTS



RACK SUPPORT (ENLARGEMENT) ELEVATION

Scale: 1/2" : 1'-0"



REAR ELEVATION

2 WALL MOUNTED CONDENSING UNIT

Scale: 3/16" : 1'-0"

FIELD CONDITIONS AND DIMENSIONS SHALL BE VERIFIED BEFORE FABRICATION

NOTES MATERIALS

1. L 4"x 4"x ⅜" SUPPORT ANGLE
2. L 4"x 4"x ⅜" FRAMING ANGLE
3. (4)- L 4"x 4"x ¼" BRACE ANGLE
4. L 4"x 4"x ¼" HORIZONTAL BRACE ANGLE
5. HSS 4" x 4" x ¼" TUBE COLUMN
6. ½" x 10" x 10" BASE PLATE
7. ⅜" x 3" x 7-½" LG. BENT PLATE BRACKET SEE DETAIL 3 TYP. BRACKET ON SHEET S-2.0
8. ⅜" x 6" x 6" BACK PLATE
9. (4)- HILTI KWIK BOLT 3 KB3 ⅝"x4-1/2" (2-½" MIN EMBEDMENT)
10. (1)- ¾"Ø THRU BOLTS W/ NUT, WASHER AND LOCK WASHER
11. ⅜" x 6" x 6" GUSSET PLATE, SEE DETAIL D ON SHEET S-2.0
12. (6)- A325 - ½"x2-1/4" BOLTS W/ NUT, WASHERS AND LOCK WASHERS, SEE DETAIL 4 TYP. MOUNTING FOR CU-1 (BOTTOM VIEW) ON SHEET S-2.0
13. (4)- M10 - ⅜" BOLTS W/ NUT, WASHERS AND LOCK WASHERS, SEE DETAIL C, TYP. MOUNTING FOR CU-2 ON SHEET S-2.0

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO FLORIDA BUILDING CODE 2017
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO START WORK AND NOTIFY
3. WE WILL FURNISHED AND INSTALLED AFTER A SET OF DRAWINGS HAVE BEEN APPROVED BY THE GENERAL CONTRACTOR/CUSTOMER.
4. THESE SHOP DRAWINGS HAVE BEEN PREPARED ACCORDING TO OWNER'S DRAWINGS AND ANY CHANGES REQUIRED (NOT DUE TO OUR ERROR) WILL BE CHARGED EXTRA FOR DRAWINGS, MATERIALS AND LABOR. NO WORK WILL BE PERFORMED UNTIL A WRITTEN CHANGE ORDER FOR THE CHANGE OR CHANGES HAS BEEN RECEIVED. OWNER OR OWNER'S REPRESENTATIVE. PLEASE NOTE, ANY REQUEST FOR A VERIFICATION NOT ANSWERED WILL BE ASSUMED TO BE CORRECT AS WRITTEN OR SHOWN.
5. ALL ENGINEERING AND CALCULATIONS ARE THE RESPONSIBILITY OF THE DESIGN ARCHITECT OR ENGINEER THIS INCLUDES BUILDING, CODE REQUIREMENTS.

SCOPE OF WORK

- STEEL FRAMING SUPPORT - FOR LARGE CONDENSING UNIT (1390 Lbs.)
- ADD STEEL PLATE TO EXISTING RACK SUPPORT - FOR SMALL CONDENSING UNIT (62 Lbs.)

TABLE OF CONTENTS

S-1.0 SCOPE OF WORK, STRUCTURAL GENERAL NOTES, ROOF PLAN AND ELEVATION.
S-2.0 SECTION AND DETAILS
S-3.0 ISOMETRICS

STRUCTURAL NOTES

GENERAL NOTES:

ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. DO NOT SCALE THE DRAWINGS. FOLLOW WRITTEN DIMENSIONS ONLY. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED PART OF THE WORK.

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION.

STRUCTURAL STEEL:

THE MATERIAL, FABRICATION , AND ERECTION OF STRUCTURAL STEEL SHALL COMPLY WITH THE SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, 13TH EDITION, BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.

ALL STEEL PLATES, ANGLES, CHANNELS & BARS SHALL BE ASTM A36, fy = 36 KSI OR APPROVAL EQUAL UNLESS NOTICE OTHERWISE.

ALL STRUCTURAL TUBES SHALL BE ASTM ASOO GRADE B, fy = 46 KSI OR APPROVAL EQUAL. ALL PIPE TO BE NOMINAL DIAMETER ASTM AS01, Fy = 36 K.S.I. OR APPROVAL EQUAL.

ANCHOR BOLTS AT COLUMN BASES SHALL BE ASTM A307 BOLTS WITH DOUBLE-NUT LEVELING.

ALL OTHER BOLTS SHALL BE ASTM A325-N BOLTS WITH WASHERS UNDER THE TURNED ELEMENT. BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH THE TURN-OF -THE-NUT METHOD.

WELDING SHALL BE DONE BY AWS CERTIFIED WELDERS USING THE MOST RECENT AWS APPROVED TECHNIQUES. SHIELDED METAL ARC WELDING (SMAW) SHALL USE E60XX LOW-HYDROGEN ELECTRODES.

ALL STEEL SHALL RECEIVE SHOP AND FIELD TOUCH-UP COATS OF PAINT OR GALVANIZE IT IF NECESSARY IN ACCORDANCE WITH SSPC SPECIFICATIONS.

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Banfield PET HOSPITAL

2 REVISION 2 03-04-2019

Drawing:
SCOPE OF WORK STRUCTURAL GENERAL NOTES, ROOF PLAN AND ELEVATION.

Job No: 18078

Date: 12-21-2018

Sheet No:
S-1.0

NOTES MATERIALS

1. L 4"x 4"x ⅜" SUPPORT ANGLE
2. L 4"x 4"x ⅜" FRAMING ANGLE
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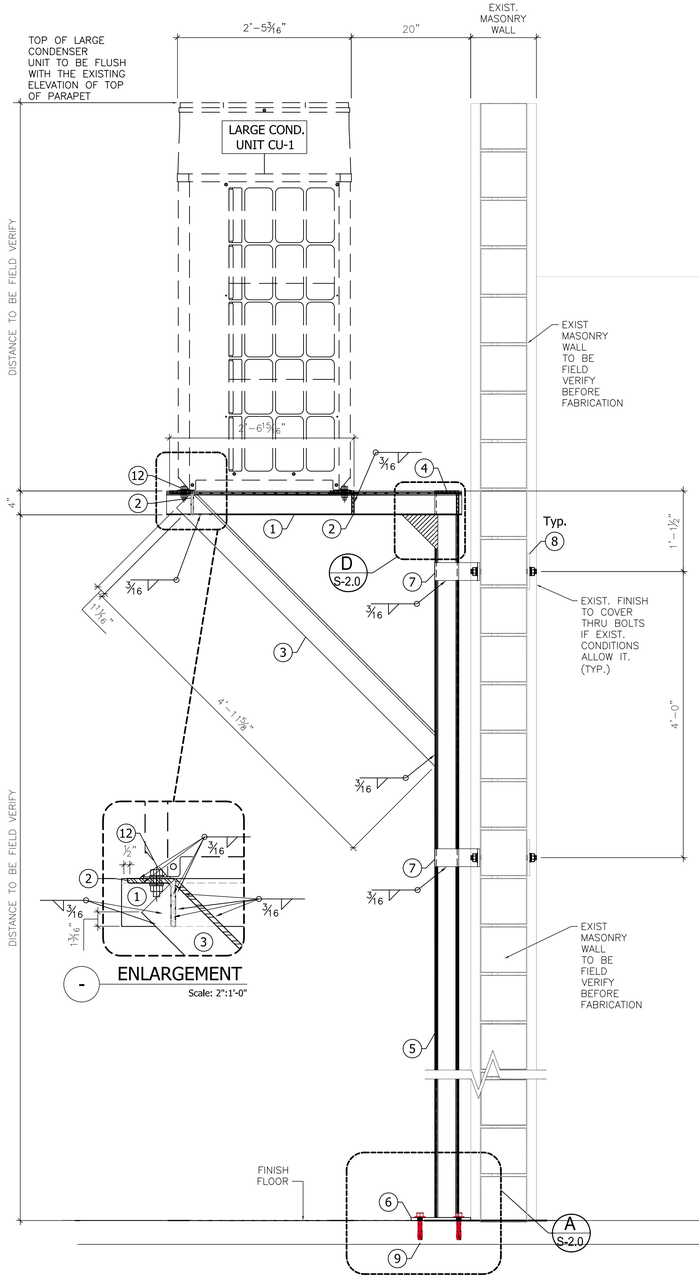
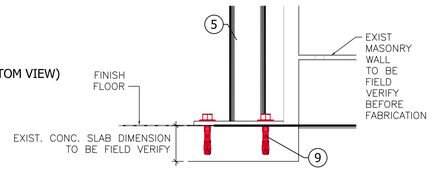
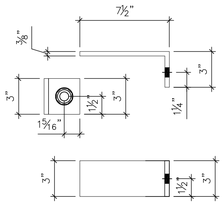
13. (4)- M10 - ⅜- BOLTS W/ NUT, WASHERS AND LOCK WASHERS, SEE DETAIL C, TYP. MOUNTING FOR CU-2 ON SHEET S-2.0



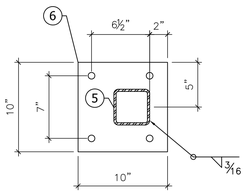
1 WALL MOUNTED LARGE CONDENSING UNIT
Scale: 1":1'-0"

ENLARGEMENT
Scale: 2":1'-0"





3 TYP. BRACKET
Scale: 2":1'-0"



A TYP. DETAIL
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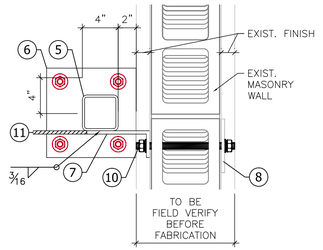
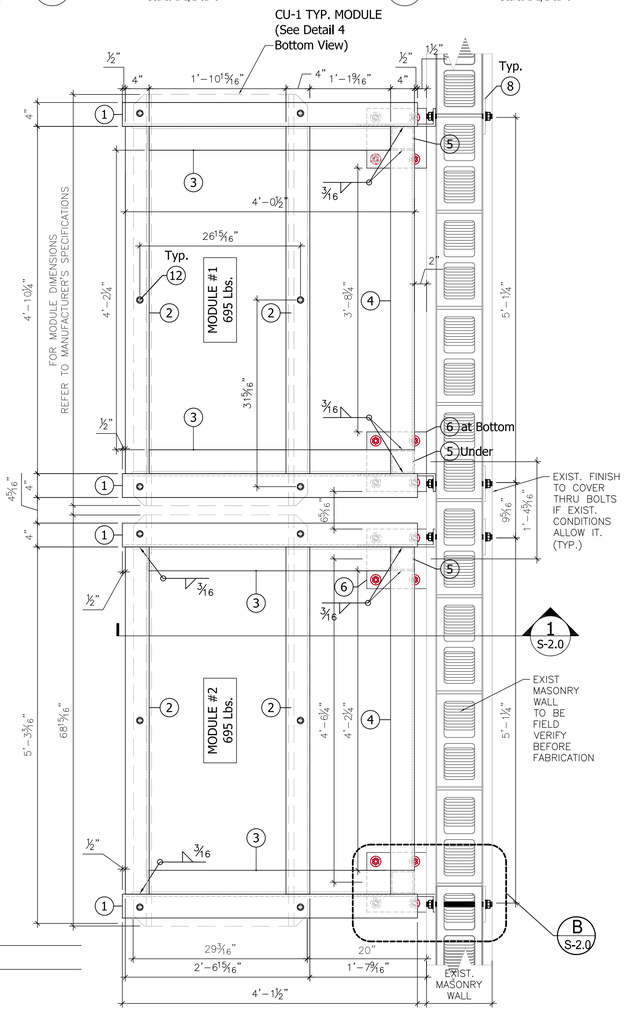


B TYP. DETAIL
Scale: 1-1/2":1'-0"



1 PLAN VIEW (TYP. RACK SUPPORT)
Scale: 1":1'-0"

SPECIFICATION FOR STRUCTURAL STEEL

MATERIALS : STEEL
WIDE FLANGE SHAPES: ASTM-A572 OR A992 GRADE 50
ANGLES & PLATES : ASTM-A36
STRUCTURAL TUBING : ASTM-A500 , GRADE B
MISCELLANEOUS PIPES : ASTM-A53 , TYPE E OR S , GRADE B
ANCHOR BOLTS : ASTM-A307
CONNECTION BOLTS : ASTM-A325
NUTS : ASTM-A563
WASHERS : ASTM-F436
HEADED STUDS : ASTM-A108

WELDING :
AS PER AWS D.1.1 (E-70XX)

CLEANING :
SSPC-SP2 "HAND TOOL CLEANING"

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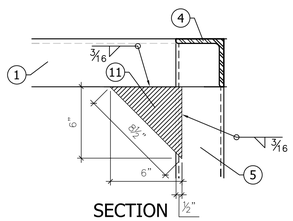
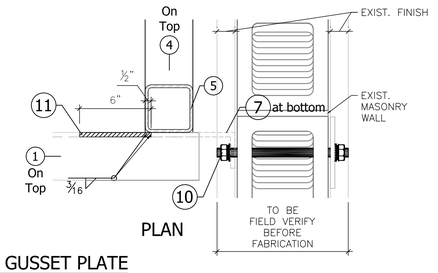
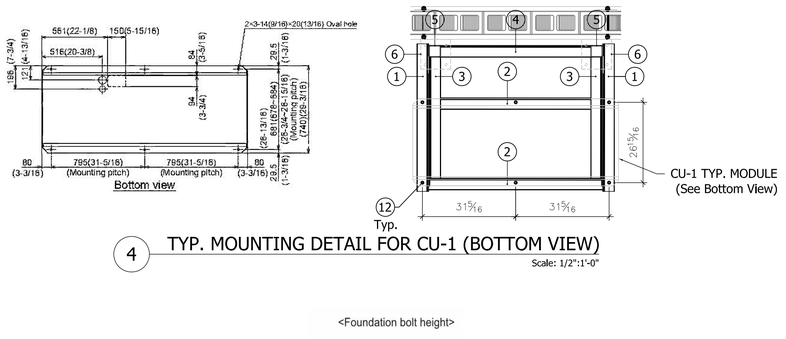


SECTION

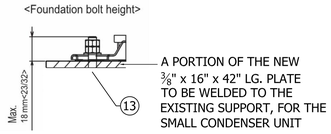


PLAN

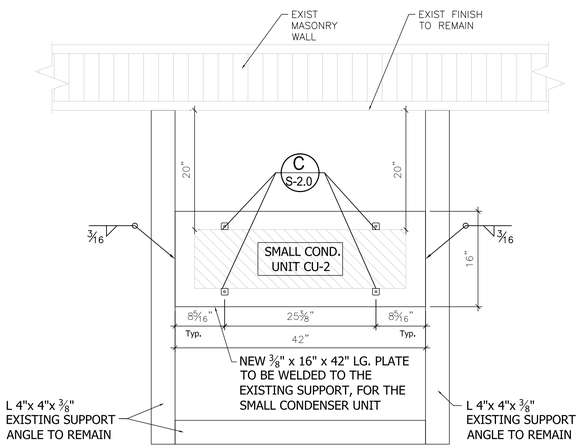
D TYP. GUSSET PLATE
Scale: 2":1'-0"



4 TYP. MOUNTING DETAIL FOR CU-1 (BOTTOM VIEW)
Scale: 1/2":1'-0"



C TYP. MOUNTING DETAIL FOR CU-2
Scale: N.T.S.



2 PLAN VIEW
Scale: 1":1'-0"

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2 REVISION 2 03-04-2019

Drawing:
SECTIONS AND DETAILS

Job No: 18078
Date: 12-21-2018
Sheet No:
S-2.0

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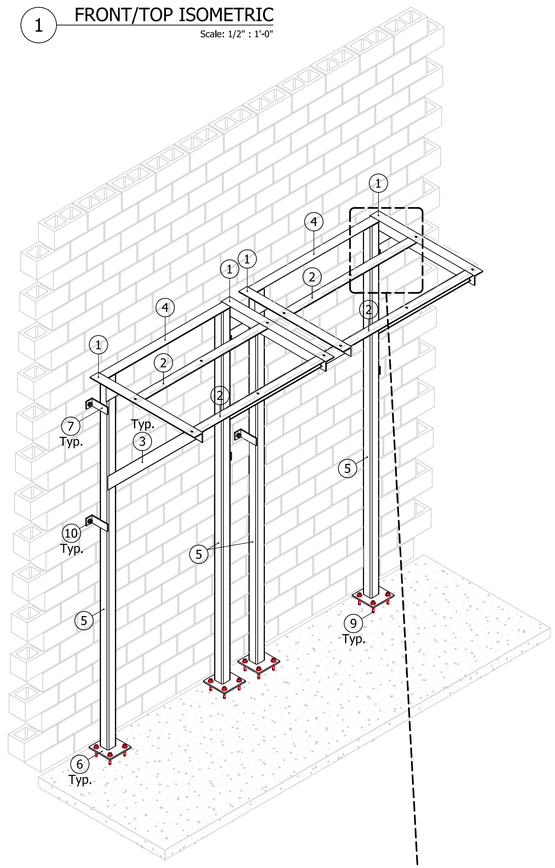
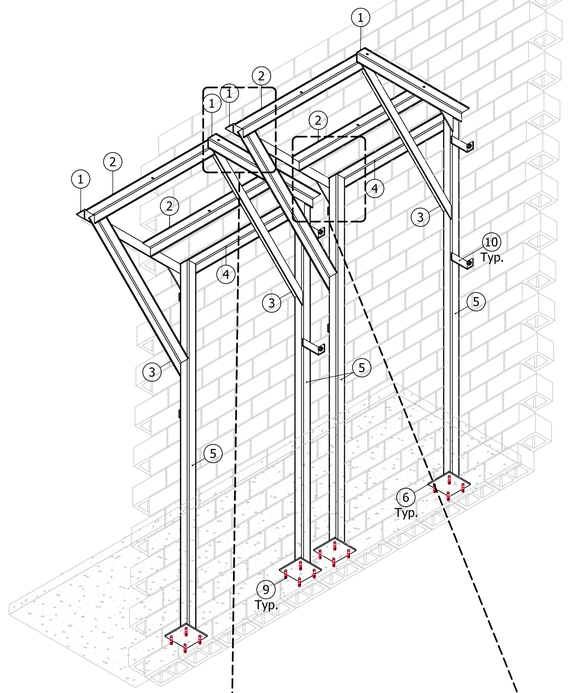
1 FRONT/TOP ISOMETRIC

Scale: 1/2" : 1'-0"



2 FRONT/BOTTOM ISOMETRIC

Scale: 1/2" : 1'-0"



3 INTERIOR ISOMETRIC

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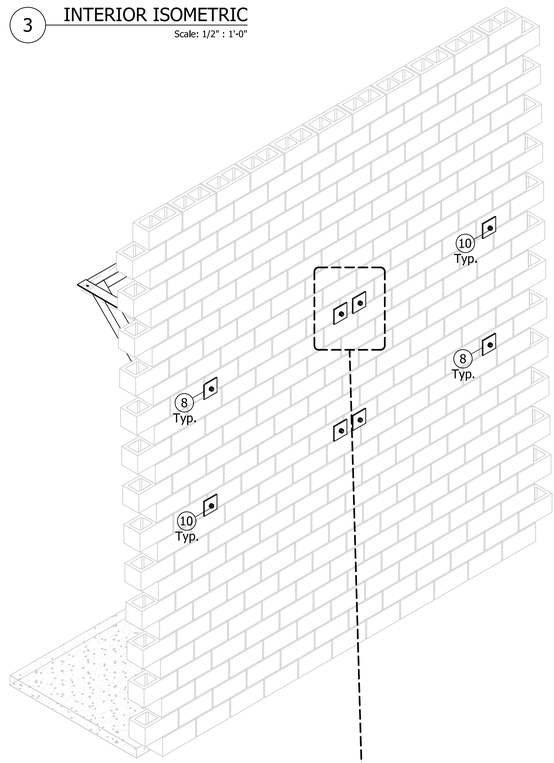
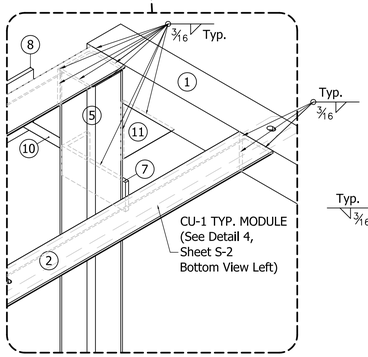
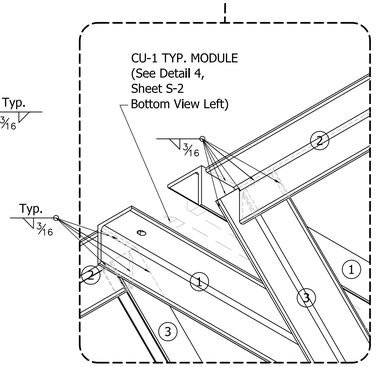




- ENLARGEMENT

Scale: 2" : 1'-0"



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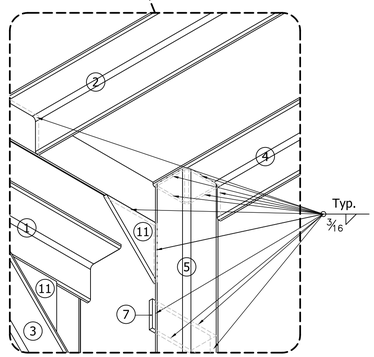

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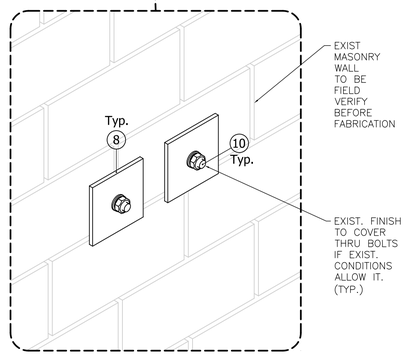

- ENLARGEMENT

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ON SHEET S-2.0
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W/ NUT, WASHERS AND LOCK WASHERS,
SEE DETAIL C, TYP. MOUNTING FOR CU-2
ON SHEET S-2.0

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Phone (937) 754-2474 www.seallc.com

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2 REVISION 2 03-04-2019

Drawing:
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