GENERAL NOTES

A. GENERAL

1. The existing conditions indicated on the Drawings are based on surveys made by the consultant(s) as well as on material provided by the Owner and no claim is made as to its absolute completeness and/or accuracy. Prior to the start of construction operations, field-verify existing conditions and dimensions pertaining to this Contract. Notify the Engineer immediately of any discrepancies found at the site in relation to the information provided on the Drawings.
2. The Owner or his Representative reserves the right to inspect any material, fabrication, or workmanship at any time in field or shop for conformance to the Specifications and Drawings.
3. All details and sections are intended to be typical and shall be construed to apply to any similar situation elsewhere, except where a different detail is shown.
4. Do not scale drawings.

B. DESIGN

1. Codes, specifications and standards (latest editions, U.N.O.)
   a. All design and construction shall conform to the International Building Code (2018) as amended and adopted by the City of Lee's Summit, Missouri.
   b. All construction shall comply with the provisions of the following codes, specifications and standards, as referenced in the general building code, except where noted to the contrary on drawings and specifications or where more stringent requirements are specified or shown:

      AISC 360 "Specifications for Structural Steel Buildings"
      ASCE 7 "Minimum Design Loads and Associated Criteria for Buildings and Other Structures"
      AISI "Specifications for the Design of Cold-Formed Steel Structural Members"
      AWS D1.1 "Structural Welding Code - Steel"

2. Design Loads:
   a. Roof - Snow (incl. rain on snow)
      - Pf = 20 psf
      - Ce = 0.9
      - I = 1.00
      - Ct = 1.00

   b. Roof Live Load, RLL
      - Ordinary flat 20 psf

   c. Mechanical Units

- Hood	750 lbs
- Furnace	132 lbs
- Evaporator Coil	50 lbs
- Exhaust Fan	50 lbs

   d. Roof Design Dead Loads:

- Roof Deck, Roofing, and Insulation	9.2 psf
- Z Purlin	0.8 psf
Total	10 psf

   e. Structural steel shall be designed to resist an overhead Hood (Manufactured by AVI: Model 3255), and AHUs (Manufactured by LENNOX: Evaporator Coil: CX35-36B-F & Furnace: ML193UH070XE36B)

C. STRUCTURAL STEEL

1. Qualifications for Welding Work:
   a. Perform all welding by a certified welder.
   b. Qualify welding processes and welding operators in accordance with AWS "Standard Qualification Procedure".
   c. Provide certifications per AWS D1.1. Verify the period of effectiveness of per AWSD1.1 Qualifications
   d. If recertification of welders is required, retesting will be Contractor's responsibility.
2. Structural steel: ASTM A 992 - wide flange sections, ASTM A 36 - shapes and plates.
3. Beam and column connections shall be as shown on plans. If not specified, use a standard series connection using 3/4 in. dia. bolts capable of carrying a reaction equal to Wc/(Lx2) shall be used. Do Not use one-sided or other eccentric connections, except in isolated cases where approved or detailed by the Structural Engineer.
4. High Strength Bolts (steel-to-steel connections): ASTM F3125 Grade A325N, load indicator bolts.
   a. Tighten all connection bolts to the tension shown in Table 8.2 of the AISC "Specification for Structural Joints using High Strength Bolts" unless noted otherwise. Tighten bolts by the turn-of-nut method or calibrated wrench method.
   b. Bolts tightened by the turn-of-nut-method shall have the outer face of the nut match marked with the protruding bolt point before final tightening by a method which will be readily visible after the bolts are tightened.
   c. Bolts tightened by the calibrated wrench method shall have a hardened washer under the element turned in tightening.
5. Welded connections: AWS Standards and Specifications using E70xx electrodes, unless noted otherwise.
6. Do not flame cut holes or enlarge holes by burning.
7. Set structural frames accurately to lines and elevations indicated. Align and adjust various members forming a part of a complete frame or structure before permanently fastening. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
8. Clean bearing surfaces of bond-reducing materials and roughen to improve bond to surfaces.
9. Immediately after surface preparation, apply structural steel primer paint in accordance with manufacturer's instructions and at a rate to provide a uniform dry film thickness of 2.0 mils. to all structural steel. Use painting methods which result in full coverage of joints, corners, edges, and exposed surfaces.
10. Provide 4" x 4" x 1/4" angles as required around openings.

D. CONSTRUCTION

1. See mechanical requirements for embedded items not shown herein and to verify size and location of all openings.
2. Coordinate the sizes and locations of all miscellaneous metal items required for mechanical and electrical.
3. Weld structural necessary structural memebers prior to cutting the roof for openings.
4. During welding or any other construction activity that generates sparks or intense heat, the Contractor shall provide adequate fire protection to the existing structure and contents. At a minimum provide the following:
   a. Remove combustible materials from areas of welding and sparks.
   b. Provide fire proof blankets and shields to contain sparks where combustible materials cannot be removed.
   c. Provide a fire safety observer with multiple fire extinguishers on both the roof and below the roof during welding near the roof structure as well as both sides of demising walls.
   d. Maintain fire watch for a period of 4 hours after welding is completed.

E. SPECIAL INSPECTION

1. The following inspection shall be performed by an independent inspection agency employed by the owner and approved by the structural engineer and the building official. Inspection reports shall be submitted to the structural engineer and building official. Special inspection shall conform to Chapter 17 of the 2018 International Building Code, as well as conforming to the items listed below.

Special Inspection requirements:	Continuous	Periodic
2. Structural steel		
a. Material verification - structural steel, high-strength bolts, nuts, washers.		X
b. Inspection of high-strength bolting		X
c. Inspection of high-strength bolting		
1) Single pass fillet welds <5/16".		X

THE ACCOMPANYING PROFESSIONAL SEAL INDICATES THAT THE PERSON WHOSE NAME APPEARS ON THE SEAL HAS PREPARED OR SUPERVISED PREPARATION OF THE DOCUMENT ON WHICH THE SEAL APPEARS. THAT PERSON AND THE FIRM FOR WHICH THEY ARE EMPLOYED DISCLAIM RESPONSIBILITY FOR ANY PORTIONS OF THE WORK ON WHICH THEIR SEAL DOES NOT APPEAR.

STATE OF MISSOURI
RALPH C. JONES
NUMBER PE-22413
PROFESSIONAL ENGINEER
7-9-21

RALPH C JONES
MO PE-22413

STRUCTURAL ENGINEERING ASSOCIATES
Phone: 816.421.1042
1000 Walnut Street, Suite # 1570
Kansas City, MO 64106
Missouri Certificate of Authority: 000396

DOMINO'S PIZZA BAKERY STORE
NEW AIR HANDLING UNITS
3544 MARKET ST.
LEE'S SUMMIT, MO. 64082

DRAWN BY	LGC
CHECKED BY	RCJ
JOB NO.	2021034
DATE	07/09/2021
REVISIONS:	

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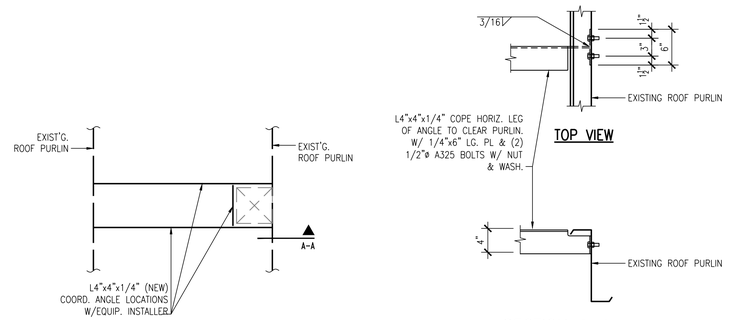
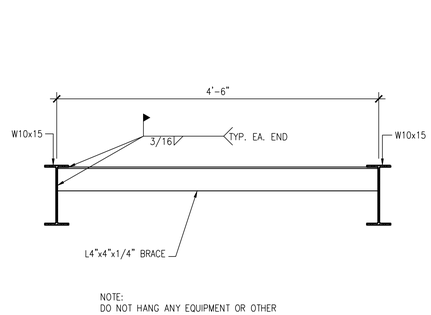
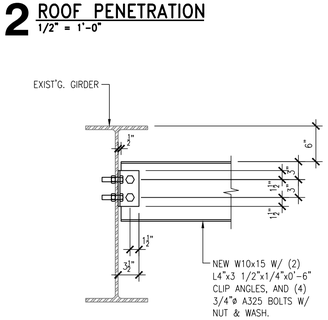


2 ROOF PENETRATION
1/2" = 1'-0"

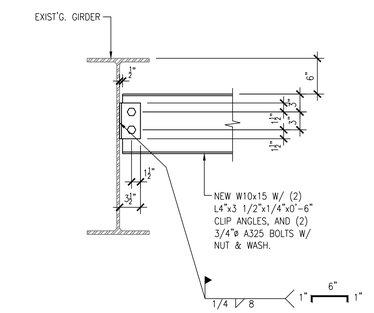


NOTE:
DO NOT HANG ANY EQUIPMENT OR OTHER MATERIALS FROM BRACING

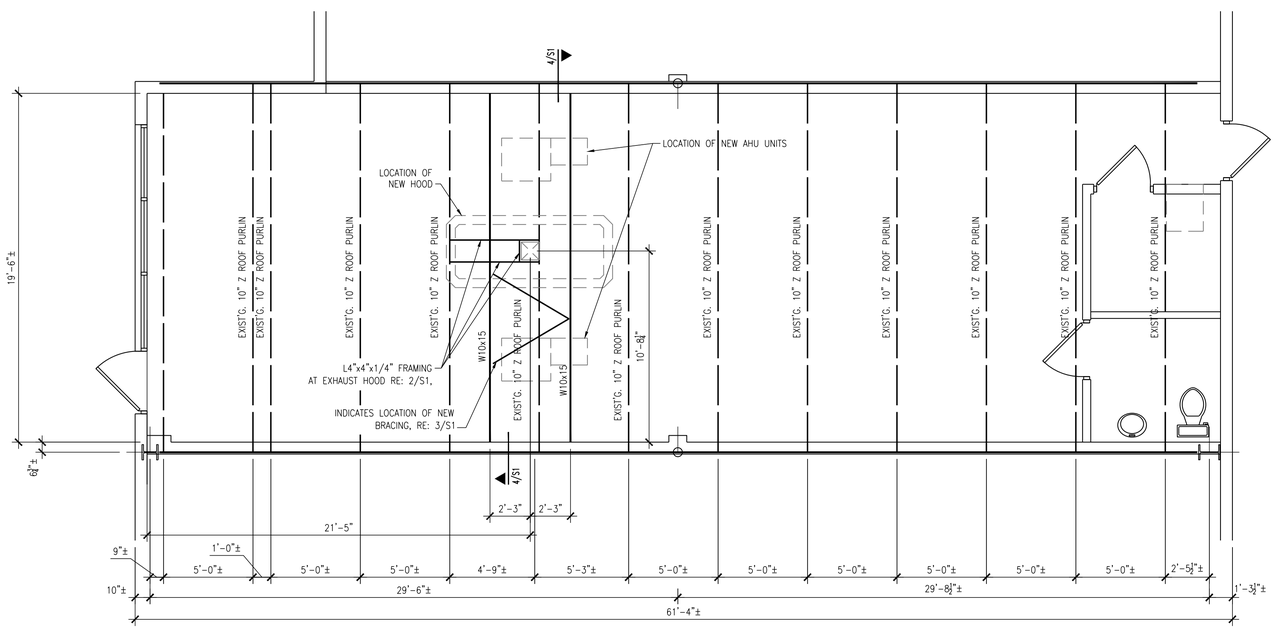
3 BRACING CONNECTION TO FLANGE OF BEAM
1" = 1'-0"



4 NEW BEAM TO EXISTING GIRDER CONNECTION
1" = 1'-0"



4 OPTIONAL BEAM TO GIRDER CONNECTION
1" = 1'-0"



1 AIR HANDLING UNIT PLAN
1/4" = 1'-0"

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