



Department of Commerce, Division of Industrial Compliance, Bureau of Building Code Compliance, State of Ohio
Electronic Plan Approval Sheet

CPA Number: _____

Building Use Groups: _____

Plan Approval Date: _____

Approval Type:

Final

Partial No.

Construction Type: _____

Name of County: _____

• **Plan Approval Status Expiration Notice:**

This plan approval status will expire if the construction work has not commenced within 12 months of the approval date or during the course of construction, the work is delayed or suspended for more than 6 months. Extensions can be granted upon receiving a written request along with \$100 fee from the owner at least 10 days prior to the expiration date in accordance with section 105 OBC.

• **Contractor License Notice:**

All electrical, plumbing, hydronics, HVAC, and refrigeration contractors working on this project must be licensed by the State of Ohio in accordance with 4740 ORC.

• **This plan approval is subject to the following additional code requirements:**

- Ohio Building Code, Chapter 29, minimum plumbing requirements. Please contact the Building Code Compliance, Plumbing Section or Local Health Department.
- Ohio Elevator Code, Ohio Fire Code, Ohio Boiler and Unfired Vessels Rules
- All other requirements of the Ohio Revised Code, Local Zoning and Other Regulations.

• **Disclaimer:**

The structural elements of these drawings have been examined to the extent necessary to determine conformity of such plans with other requirements of OBC. The sufficiency of these elements to meet all code requirements is the responsibility of the registered architects or professional engineers who certified the drawings.

All electrical work shall be installed in accordance with National Electrical Code.

The design and calculations for the sprinkler system in these plans, if applicable, have been examined to the extent necessary to determine conformity of such plans with other requirements of OBC. The sufficiency of the design and calculations to meet all code requirements is the responsibility of author of these plans who certified the drawings. The installed sprinkler system will be inspected by DIC field inspectors to determine compliance with approved plans, and the operation of the system will be verified by local fire authority or a third party inspection agency.

- **For Partial Plan Approval:**
The following scope of work is approved under tis partial plan approval

Footing/Foundation	Slab	Building Shell	Interior Finishes
Electrical	Mechanical	Sprinkler	Fire Alarm

- **List of available construction inspections for request when the scope of work is checked below. For building general, see the partial approval items above.**

Building General (Structural)

- ❖ Structural Footing/Foundation
- ❖ Structural Floor Slab
- ❖ Structural Framing
- ❖ Structural Above Ceiling
- ❖ Structural Kitchen Exhaust Hood
- ❖ Structural Site Consultation
- ❖ Structural Investigation
- ❖ Structural Interior Finishes
- ❖ Structural Final Inspection

Electrical

- ❖ Electrical Temporary Service/Pole
- ❖ Electrical Service
- ❖ Electrical Underground
- ❖ Electrical Under Slab
- ❖ Electrical Wire Rough-In
- ❖ Electrical Site Consultation
- ❖ Electrical Investigation
- ❖ Electrical Above Ceiling
- ❖ Electrical Final Inspection

Mechanical

- ❖ Mechanical Above Ceiling
- ❖ Mechanical Rough-In
- ❖ Mechanical Site Consultation
- ❖ Mechanical Final Inspection

Fire Alarm System

- ❖ Fire Alarm Site Consultation
- ❖ Fire Alarm Rough-In
- ❖ Fire Alarm Final Inspection

Sprinkler System

- ❖ Sprinkler/Fire Standpipe
- ❖ Sprinkler Limited Area
- ❖ Exhaust Hood Suppression
- ❖ Sprinkler Site Consultation
- ❖ Sprinkler Final

Industrialized Unit

- ❖ Industrialized Unit Site Consultation
- ❖ Industrialized Unit Final

Re-Roofing

- ❖ Re-Roofing Rough-In
- ❖ Re-Roofing Final



Site Inspection Sign-Off Log

Page ____ of ____

Special Note: This inspection log must be kept on site with the approved plans at all times. Additional inspection fees will be charged when the actual number of inspections exceeds the number of allowed inspections for each scope of work. Please make additional blank copies of this sheet before using it if needed.

Certificate of Plan Approval (CPA) No.:		Scope of work: Building General (ST) / IU's (IU) Mechanical (MH) / Sprinkler (SP)	Total Number of Inspections Allowed:	
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No.	ST	MH	IU	SP	Date	Inspection results	Inspected by	Next inspection required
1								
2								
3								
4								
5								
6								
7								
8								



Site Inspection Sign-Off Log

Page ____ of ____

Special Note: This inspection log must be kept on site with the approved plans at all times. Additional inspection fees will be charged when the actual number of inspections exceeds the number of allowed inspections for each scope of work. Please make additional blank copies of this sheet before using it if needed.

Certificate of Plan Approval (CAP) No.		Scope of work: Electrical (EL) / Fire Alarm (FA)	Total Number of Inspections Allowed:	
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No.	EL	FA	Date	Inspection results	Inspected by	Next inspection required
1						
2						
3						
4						
5						
6						
7						
8						



Ohio Department of Commerce
Division of Industrial Compliance

Certificate of Plan Approval
Partial No. 1

Mike DeWine
Governor

Sheryl Maxfield
Director

Stephen Risser
Chief Building Official

Plan Number: 2023021965	Property Address: 1632 CASCADE DR MARION OH 43302	County: MARION
Date of Approval: 10/11/2023	Type of Project: Alteration - Addition	Governing Building Code: 0
Building / Business Name: Rialto Manufacturing	Description of the Project: Storage addition to sheet steel cutting and welding operation	
Property Owner: JOSH OBENOUR 1632 CASCADE DR MARION OH 43302	Submitter: OMNESS DESIGN INC PAUL OMNESS 140 FAIRFAX RD MARION OH 43302	Design Professional: OMNESS DESIGN INC PAUL OMNESS 140 FAIRFAX RD MARION OH 43302
Approved Scope of Project: General Building Trade Mechanical Electrical	Authorized No. of Inspections: 11 11 11	Use Occupancy Groups: F-2
		Construction Type: Type II B
		Building Floor Area (s.f.): 38000.0
		Number of Stories:
		Building Occupant Load:

Proper inspections shall be requested prior to pouring concrete footings and/or installation of interior finishes per section 108 OBC. This certificate shall remain posted in a conspicuous and safe place on the job site until the work is completed. Failure to meet these requirements may result in the refusal of service and/or the issuance of an adjudication order. The building/structure shall pass final inspection and a State of Ohio Certificate of Use and Occupancy shall be issued before the building/structure can be legally occupied. The owner is responsible for obtaining all local zoning and sewage permits. In order to schedule an inspection, contact the numbers listed on the bottom of this certificate between the hours of 8:15 am and 2:30 pm.

Structural / Electrical / Plumbing 1-800-822-3208 8:00 am to 5:00 pm	State Fire Marshal 614-728-5460	All Other Inquiries 1-800-523-3581 8:00 am to 5:00 pm
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State Inspector's Signature for Occupancy:

Building Official Signature

Final Structural Approval:	_____	Date:	_____
Final Electrical Approval	_____	Date:	_____
Final Plumbing Approval	_____	Date:	_____
Final Medical Gas Approval:	_____	Date:	_____
Final Fire Approval:	_____	Date:	_____


Ohio Department of Commerce
Division of Industrial Compliance
6606 Tussing Road
Reynoldsburg, Ohio 43068-9009
(614) 644-2622 Fax: (614) 644-3145



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Mike DeWine, Governor
Sheryl Maxfield, Director

10/11/2023

**JOSH OBENOUR
1632 CASCADE DR
MARION OH 43302**

ADDENDUM NO. 1 TO PARTIAL PLAN APPROVAL

Project Number: 2023021965
Plan Approval Date: 10/11/2023

**Rialto Manufacturing
1632 CASCADE DR
MARION OH 43302**

NOTICE: PLEASE BE PREPARED TO FURNISH THE OCILB CONTRACTOR
LICENSE NUMBER WHEN CALLING FOR ELECTRICAL, HVAC,
HYDRONICS, PLUMBING AND REFRIGERATION INSPECTIONS.

This is a PARTIAL PLAN APPROVAL in accordance with the provisions of Section 105 of the Ohio Building Code. The various stages of construction shall proceed in their normal sequence.

This addendum shall be attached to the Certificate of Plan Approval and shall become part of the approved plans. All items listed below will be performed and incorporated into the structure.

PLAN APPROVAL STATUS EXPIRATION NOTICE:

Please be aware that this plan approval will expire if during the course of construction, the work is delayed or suspended for more than six (6) months. Two extensions may be granted for six months each upon receiving a written request and a \$100 fee for each extension request from the owner at least 10 days prior to the expiration date. (Section 105.3 & 105.4 OBC)"

1. This PARTIAL PLAN APPROVAL includes the following:

- a) FOOTING / FOUNDATION / ANCHOR BOLTS**
- b) SLAB**
- c) PRE-ENGINEERED BUILDING COMPONENTS**
- d) BUILDING SHELL**
- e) MECHANICAL PARTIAL**

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f) ELECTRICAL PARTIAL

THIS PARTIAL PLAN APPROVAL does NOT include the following:

g) ITEMS IN CORRECTION LETTER

h) FIRE ALARM SHOP DRWGS FOR BBS CONDITIONAL VARIANCE

This PARTIAL plan approval is contingent upon the following:

2. PHASED APPROVAL

This is a PHASED CONSTRUCTION APPROVAL per 105.1.4 OBC. The holder of this approval may proceed at the holder's own risk with the building operation and without assurance that an approval for the entire structure will be granted. Phased approvals are given in the sequence of construction. The holder of this approval may proceed only to the point for which approval has been given.

3. PRE-CONSTRUCTION MEETING

For the purpose of clarifying the responsibilities between State Inspectors and Special Inspectors as required by Section 1704 OBC, a mandatory pre-construction meeting shall be scheduled by the owner or the agent of the owner for this project prior to the commencement of the construction. This meeting will allow the contractors, designers, owner, Special Inspectors, and State Inspectors to coordinate the responsibilities and requirements of the Special Inspection and regular inspections. The owner or the agent of the owner shall notify the Chief of Building Code Compliance at (614) 644-2622 of the date, time, and place of the pre-construction meeting. Failure to comply with this requirement may result in the delay of construction and potential problems with subsequent construction inspections.

4. OTHER LAWS:

The provisions of this code shall not be deemed to nullify any provisions of state or federal law. Municipal corporations may make further and additional regulations, not in conflict with Chapters 3781 and 3791 of the Revised Code or with the rules of the board of building standards. However approval by the board of building standards of any fixture, device, material, system, assembly or product of a manufacturing process, or method or manner of construction or installation shall constitute approval for their use anywhere in Ohio; Section 102.2 OBC.

5. APPROVED CONSTRUCTION DOCUMENTS:



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An approved set of plans be kept at the site and shall be available for reference by the building official at all times during working hours while such work is in progress; Section 107.7 OBC.

6. INSPECTION PROCESS:

The owner or contractor shall call for inspections and the building department perform those inspections before any work is covered up by other construction, including, but not limited to all reinforcing , framing, plumbing, mechanical and electrical work; Section 108 OBC. The maximum number of inspections for each scope of work covered under the initial application fees are listed in the approved construction documents. If the number of inspections requested exceeds the maximum allowable number for each scope of work, an additional inspection fee of \$150.00 will be charged for each inspection; Section 115.3.1 OBC.

7. AMENDED CONSTRUCTION DOCUMENTS:

If substantive changes to the building are contemplated after first document submission, or during construction, those changes must be submitted to the building official for review and approval prior to those changes being executed. The building official may waive this requirement in the instance of an emergency repair, or similar instance; Section 106.3 OBC. Additional fees for processing the amended construction documents will be charged in accordance with Section 115.2 OBC.

8. CONTRACTOR LICENSE NOTICE:

All electrical, plumbing, hydronics, HVAC, and refrigeration contractors working on this project must be licensed by the State of Ohio; Section 4740 Ohio Revised Code.

9. These addendum items are not necessarily the only, nor all of the provisions with which compliance is required. Omission of reference to any provisions will not nullify any requirement, nor exempt any structure from such requirement of the Ohio Building Code. The OWNER and the ARCHITECT/PROFESSIONAL ENGINEER/FIRE PROTECTION DESIGNER as identified on the plans will be responsible for the structure, design, safety and all OBC requirements.

The holder of a PARTIAL PLAN APPROVAL may proceed only to the point for which approval has been given, at his own risk and without assurance that approval for the entire building will be granted.

Further, the holder agrees to make any and all changes, alterations, additions or deletions required by the Division of Industrial Compliance to be in compliance with the final approved plans and the Ohio Building Code.

Further, commencement of work on this project constitutes acceptance of this agreement and all items listed herein.



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Mike DeWine, **Governor**
Sheryl Maxfield, **Director**

Your plan examiner is: William Phillips.

Bureau of Building Code Compliance
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10/11/2023

**JOSH OBENOUR
1632 CASCADE DR
MARION OH 43302**

CORRECTION LETTER NO. 1

Project Number: **2023021965**
Response Deadline: **04/08/2024**

The plans for the project referenced below have been reviewed and were found to be incomplete and/or to contain violations of the Ohio Building Code (OBC). As a result, your plans cannot be approved at this time.

This notice serves as a Correction Letter to inform you of what information is needed to get your plans approved. Pursuant to OBC section 110, you have the right to appeal any of the items listed below. You may contact the Chief Building Official to obtain a formal Adjudication Order that will provide the procedures to request an appeal hearing. In accordance with OBC section 107.6, if corrected documents have not been submitted within 6 months of the date of this letter, or the owner has not exercised the right to appeal, an adjudication order will be issued in accordance with section 109 OBC.

The plans affected by this notice are known or described as:

**1632 CASCADE DR
MARION OH 43302**

Your plans cannot be approved until all of the information specified below is submitted and reviewed:

1. OBC 107.4.1 ADDITIONAL INFORMATION REQUIRED

Because the construction documents do not have enough information for a complete plan review, this letter is a request for missing information and contains a review only of the items submitted. A complete review will be performed upon receipt of the required information. This may result in additional items not contained in this letter; Section 107.4.1 OBC.

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2023021965
10/11/2023

2. OBC 907-1-1 FIRE ALARM SHOP DRAWINGS

Construction documents for fire alarm systems shall be submitted for review and approval prior to system installation. Construction documents shall include, but not be limited to, the items listed in 907.1.1 OBC.

3. OBC 1017.2 EXIT ACCESS TRAVEL DISTANCE-Limitations.

Exit access travel distance shall not exceed the values given in Table 1017.2.

(Plans shall show compliance to this code requirement; Please revise & resubmit 107.6)

4. OBC 1014.6 Handrail extensions.

Handrails shall return to a wall, guard or the walking surface or shall be continuous to the handrail of an adjacent flight of stairs or ramp run. Where handrails are not continuous between flights, the handrails shall extend horizontally not less than 12 inches (305 mm) beyond the top riser and continue to slope for the depth of one tread beyond the bottom riser.

(Reference sheet A3.2; Please revise & resubmit)

5. OBC 1101.2 Design. Buildings and facilities shall be designed and constructed to be accessible in accordance with this code and ICC A117.1 as amended in section 1112 of this chapter. Any references to ICC A117.1 throughout this code shall be applied with the amendments indicated in section 1112 of this chapter.

6. OBC 1105.1 ACCESSIBLE ENTRANCES Public entrances.

In addition to accessible entrances required by Sections 1105.1.1 through 1105.1.7, at least 60 percent of all public entrances shall be accessible.

(Please clarify compliance to this code requirement; Please revise & resubmit)

7. OMC 301.6 FUEL GAS PIPING, APPLIANCES, AND EQUIPMENT

The design and installation of fuel gas distribution piping and equipment, fuel gas-fired appliances and fuel gas-fired appliance venting systems shall be in accordance with the 'International Fuel Gas Code'. Provide details including pipe sizes, lengths, materials, shutoffs, connectors, dirt legs, combustion air provisions and venting to show compliance with IFGC, per 301.6 OMC.

8. OBC 2902.1 PLUMBING FIXTURES

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2023021965
10/11/2023

Plumbing fixtures shall be provided for the type of occupancy and in the minimum number shown in Table 2902.1 OBC.

(Plans shall show a plumbing analysis for the combined occupant load of the existing building plus the addition. Please revise & resubmit)

9. OBC 1704.2.1 SPECIAL INSPECTOR QUALIFICATIONS

Prior to the start of the construction, the special inspectors shall provide written documentation to the building official demonstrating the competence and relevant experience or training of the special inspectors who will perform the special inspections and testing during construction per 1704.2.1 OBC.

(Please submit resumes to the plans examiner for review & approval)

10. OBC 2701.1 ELECTRICAL

Electrical components, equipment and systems shall be designed and constructed in accordance with the provisions of NFPA 70(2017 NEC) listed in Chapter 35, per 2701.1 OBC.

11. NEC 110.24 Available Fault Current.

(A) Field Marking. Service equipment shall be legibly marked in the field with the maximum available fault current.

12. NEC 670.1 Industrial Machinery Scope.

This article covers the definition of, the nameplate data for, and the size and overcurrent protection of supply conductors to industrial machinery.

(Reference 670.3 (a) Permanent name plate; 670.3(b) Overcurrent protection: 670.4(a) Supply conductors & overcurrent protection; 670.4(b) Disconnecting means; 670.4(c) overcurrent protection: Please revise & resubmit)

In order to minimize the time it takes to review revised plans, circle the area of changes on the revised drawings with a red pencil. Mark the item number referenced above adjacent to the circled area. This needs only to be done on one set of the revised plans. Three identical sets of



Department of Commerce

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Mike DeWine, **Governor**
Sheryl Maxfield, **Director**

2023021965
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revised plans (five sets when drawings include plumbing) must be submitted. Submit revised plans to the address specified above. However, if the plans were submitted electronically through our website the first time, any subsequent submission of revised plans and/or response letters should also be submitted electronically through our website. Please log onto our website for further instructions.

If there are any questions, you may call your Plan Examiner by phone (614) 644-2622 to discuss or to make an appointment to meet with your Plan Examiner. If you wish to appeal any of the items contained in this letter, please contact Stephen Risser, Chief Building Official at 614-644-2622 and a formal Adjudication order will be issued immediately. The Adjudication Order will provide the procedures you will need to request a hearing with the Board of Building Appeals.

Sincerely,

William Phillips,

Plans Examiner

Bureau of Building Code Compliance
6606 Tussing Road
PO Box 4009
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**BEFORE THE BOARD OF BUILDING APPEALS
STATE OF OHIO**

Rialto Manufacturing
1632 Cascade Drive
Marion, OH 43302

Appellant

CASE NO. 22-0046

-VS-

FINAL ORDER

Geoffrey D. Eaton, Building Official
Division of Industrial Compliance
Bureau of Building Code Compliance
6606 Tussing Road
Reynoldsburg, OH 43068

Appellee

This matter came up for hearing on Thursday, March 24, 2022 on an appeal from Adjudication Order No. 2022060016, dated March 9, 2022, issued by the Bureau of Building Code Compliance. Said adjudication order involved the premises known as Rialto Manufacturing, 1632 Cascade Drive, Marion, Ohio.

Based on evidence adduced by, and representations of the Appellant and the Appellee, the Appellant appealed Items 1 and 2 of the adjudication order.

The Board having determined that inasmuch as it would not be contrary to the public interest and unnecessary hardship would result if a literal enforcement of the Ohio Building Code and/or the Ohio Fire Code was required, a variance against Items 1 and 2 of the adjudication order is given.

Item 1 of the adjudication order states unlimited area buildings shall be allowed where they are in compliance with Section 507 OBC. Show the 60 ft open area around the building per OBC 507.3.

Item 2 of the adjudication order states buildings erected or altered shall be classified in one of the five construction types defined in OBC 602.2 through 602.5. The IIB and VB construction types require a firewall separation or classification of the entire building as the VB construction. Submit allowable area calculations etc. showing VB construction or provide a firewall building separation.

Variance is conditioned upon the following:

1. An alternate fire alarm system shall be installed and maintained comprising of a remote annunciator at the front entrance; system smoke detectors with integral heat detectors throughout the entire structure, audible/visual alarm notification devices throughout the entire structure; and pull stations at all identified means of egress.
2. The alternate fire alarm system shall be required to be off-premise monitored in a manner approved pursuant to OBC 901.6.
3. The alternate fire alarm system and off-premise monitoring shall be considered required systems and listed as such on the Certificate of Occupancy by the Building Official.
4. The alternate fire alarm system and off-premise monitoring shall be maintained as required systems utilizing the Ohio Fire Code and adopted NFPA standards.
5. A fire apparatus access road shall be provided and maintained utilizing the design and specifications of Section 503 of the Ohio Fire Code and to the satisfaction of the Fire Official.
6. A fire hydrant shall be installed on the south side of the main driveway to the satisfaction of the Fire Official.

7. Knox Boxes shall be installed to the satisfaction of the Fire Official.
8. Portable fire extinguishers shall be installed according to the provisions of OBC 906 and to the satisfaction of the Fire Official and shall be maintained as required by the Ohio Fire Code and adopted NFPA standards.
9. A fire safety, evacuation and emergency operational plan shall be developed and annually maintained utilizing the design guidelines of Ohio Fire Code Chapter 4, approved by the Fire Official and listed as a special condition on the Certificate of Occupancy.
10. This variance is granted based on the use, construction, occupant load, building area and level of activity identified on the approved construction documents including the maintenance of all building systems and any conditions required herein.

Variance is granted noting the no objection of the Building Official.

The Board declares that any conditions required as part of the variance are inseparable and must be complied with in full; variance is dependent upon compliance with all conditions herein stated and lack of compliance with any portion of these conditions shall negate the entire variance. In addition, any conditions to the variance shall be incorporated into final Permit Drawings for examination and any appropriate fees shall be paid.

VOTING RECORD				BY THE MEMBERS OF THE BOARD
YES	NO	ABSTAIN	ABSENT	
X				Karl H. Schneider, Attorney
X				Paul R. Beegan, Architect
X				Russell M. Demagall, Pipefitter
X				Bradley J. Smith, Engineer
X				Porter Welch, Firefighter

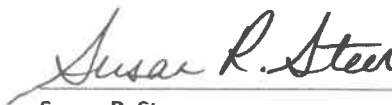
Any party desiring to appeal shall file a Notice of Appeal with the Board of Building Appeals, 6606 Tussing Road, Reynoldsburg, Ohio 43068 setting forth the order appealed from and stating that the agency's order is not supported by reliable, probative, and substantial evidence and is not in accordance with law. The notice of appeal may, but need not, set forth the specific grounds of the party's appeal beyond the statement that the agency's order is not supported by reliable, probative, and substantial evidence and is not in accordance with law. The Notice of Appeal shall also be filed by the appellant with the Court of Common Pleas of the county in which he is a resident or in which the premises affected by this order is located. Such notices of appeal shall be filed within fifteen (15) days after the mailing of the notice of the Board of Building Appeals Order as provided in Section 119.12 of the Ohio Revised Code.

CERTIFICATION

The State of Ohio,
County of Franklin, SS

I, the undersigned Executive Secretary for the Board of Building Appeals, hereby certify that the foregoing is a true and exact reproduction of the original Order of the Board of Building Appeals entered on its journal, on the 28th day of March 2022.




Susan R. Steer
Executive Secretary



Envelope Compliance Certificate

Project Information

Energy Code: 90.1 (2010) Standard
Project Title: Rialto Manufacturing, Inc.
Location: Marion, Ohio
Climate Zone: 5a
Project Type: Addition
Vertical Glazing / Wall Area: 6%

Construction Site:
1632 Cascade Drive
Marion, OH 43302

Owner/Agent:
Josh Obenour
Rialto Manufacturing, Inc.
1632 Cascade Dr.
Marion, OH 43302

Designer/Contractor:
Paul Omness
ODI
140 Fairfax Rd.
Marion, OH 43302

Building Area**Floor Area**

1-Manufacturing Facility : Nonresidential

29250

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor ^(a)
Roof 1: Metal Building, Standing Seam, Double Insulation Layer with Thermal Blocks (c), [Bldg. Use 1 - Manufacturing Facility]	29250	30.0	6.0	0.039	0.055
Exterior Wall 1: Metal Building Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Manufacturing Facility]	13506	19.0	0.0	0.084	0.069
Window 1: Metal Frame with Thermal Break, Perf. Type: Energy code default, Double Pane with Low-E, Clear , SHGC 0.68, [Bldg. Use 1 - Manufacturing Facility]	137	—	—	0.900	0.550
Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Manufacturing Facility]	273	—	—	0.100	0.700
Door 3: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Manufacturing Facility]	468	—	—	0.040	0.500
Floor 1: Slab-On-Grade:Heated, Vertical 2 ft., [Bldg. Use 1 - Manufacturing Facility] (b)	630	—	10.0	0.900	0.860

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

(b) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

(c) Thermal spacer block with minimum R-3.5 must be installed above the purlin/batt, and the roof deck secured to the purlins.

Envelope PASSES: Design 7% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2010) Standard requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

PAUL OMNESS - ARCHITECT
Name - Title


Signature

8/8/23
Date



COMcheck Software Version 4.1.5.3

Inspection Checklist

Energy Code: 90.1 (2010) Standard

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2,5.4. 3.1.1,5.7 [PR1] ¹	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
4.2.2,8.4. 1.1,8.4.1. 2,8.7 [PR6] ²	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Project Title: Rialto Manufacturing, Inc.

Data filename: S:\2022 PROJECTS\22-128 Rialto Phase 2\Documents\Comcheck\Rialto Comcheck.cck

Report date: 08/08/23

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Section # & Req.ID	Footing / Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.5.3.3 [FO1] ²	Below-grade wall insulation R-value.	R-_____	R-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.5.3.5 [FO3] ²	Slab edge insulation R-value.	R-_____ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	R-_____ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.8.1.2 [FO4] ²	Slab edge insulation installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
5.5.3.5 [FO5] ²	Slab edge insulation depth/length.	_____ ft	_____ ft	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.8.1.7.3 [FO7] ¹	Insulation in contact with the ground has $\leq 0.3\%$ water absorption rate per ASTM C272.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.4.1.5 [FO11] ³	Bottom surface of floor structures incorporating radiant heating insulated to $\geq R-3.5$.	R-_____	R-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.4.3.2 [FR1] ³	Factory-built fenestration and doors are labeled as meeting air leakage requirements.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
5.4.3.4 [FR4] ³	Vestibules are installed where building entrances separate conditioned space from the exterior, and meet exterior envelope requirements. Doors have self-closing devices, and are >=7 ft apart.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
5.5.4.3a [FR8] ¹	Vertical fenestration U-Factor.	U-____	U-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.5.4.3b [FR9] ¹	Skylight fenestration U-Factor.	U-____	U-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.5.4.4.1 [FR10] ¹	Vertical fenestration SHGC value.	SHGC: ____	SHGC: ____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.5.4.4.2 [FR11] ¹	Skylight SHGC value.	SHGC: ____	SHGC: ____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.8.2.1 [FR12] ²	Fenestration products rated in accordance with NFRC.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
5.8.2.2 [FR13] ¹	Fenestration products are certified as to performance labels or certificates provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
5.8.2.3, 5.3.6 [FR14] ²	U-factor of opaque doors associated with the building thermal envelope meets requirements.	U-____ <input type="checkbox"/> Swinging <input type="checkbox"/> Nonswinging	U-____ <input type="checkbox"/> Swinging <input type="checkbox"/> Nonswinging	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.4.3.1 [FR15] ¹	Continuous air barrier is wrapped, sealed, caulked, gasketed, and/or taped in an approved manner, except in semiheated spaces and in climate zones 1-6.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10] ²	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.4.3.1 [IN1] ¹	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
5.5.3.1 [IN2] ¹	Roof R-value. For some ceiling systems, verification may need to occur during Framing Inspection.	R-_____ <input type="checkbox"/> Above deck <input type="checkbox"/> Metal <input type="checkbox"/> Attic	R-_____ <input type="checkbox"/> Above deck <input type="checkbox"/> Metal <input type="checkbox"/> Attic	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.8.1.2, 5.8.1.3 [IN3] ¹	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the ceiling slope is <= 3:12.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
5.5.3.2 [IN6] ¹	Above-grade wall insulation R-value.	R-_____ <input type="checkbox"/> Mass <input type="checkbox"/> Metal <input type="checkbox"/> Steel <input type="checkbox"/> Wood	R-_____ <input type="checkbox"/> Mass <input type="checkbox"/> Metal <input type="checkbox"/> Steel <input type="checkbox"/> Wood	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.8.1.2 [IN7] ¹	Above-grade wall insulation installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
5.5.3.4 [IN8] ²	Floor insulation R-value.	R-_____ <input type="checkbox"/> Mass <input type="checkbox"/> Steel <input type="checkbox"/> Wood	R-_____ <input type="checkbox"/> Mass <input type="checkbox"/> Steel <input type="checkbox"/> Wood	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.8.1.1 [IN10] ²	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
5.8.1.4 [IN11] ²	Eaves are baffled to deflect air to above the insulation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
5.8.1.5 [IN12] ²	Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditional space.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
5.8.1.6 [IN13] ²	Recessed equipment installed in building envelope assemblies does not compress the adjacent insulation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

☐ 1 High Impact (Tier 1)
 ☐ 2 Medium Impact (Tier 2)
 ☐ 3 Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.8.1.7 [IN14] ²	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
5.8.1.7.1 [IN15] ²	Attics and mechanical rooms have insulation protected where adjacent to attic or equipment access.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
5.8.1.7.2 [IN16] ²	Foundation vents do not interfere with insulation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
5.8.1.8 [IN17] ³	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

☐ 1 High Impact (Tier 1)
 ☐ 2 Medium Impact (Tier 2)
 ☒ 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
5.4.3.3 [FI1] ¹	Weatherseals installed on all loading dock cargo doors in Climate Zones 4-8.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Mechanical Compliance Certificate

Project Information

Energy Code: 90.1 (2010) Standard
Project Title: Rialto Manufacturing, Inc.
Location: Marion, Ohio
Climate Zone: 5a
Project Type: Addition

Construction Site:
1632 Cascade Drive
Marion, OH 43302

Owner/Agent:
Josh Obenour
Rialto Manufacturing, Inc.
1632 Cascade Dr.
Marion, OH 43302

Designer/Contractor:
Paul Omness
ODI
140 Fairfax Rd.
Marion, OH 43302

Mechanical Systems List

Quantity System Type & Description

- | | |
|---|--|
| 1 | RH-1 (Single Zone):
Heating: 1 each - Radiant Heater, Gas, Capacity = 175 kBtu/h
No minimum efficiency requirement applies
Fan System: None |
| 1 | RH-2 (Single Zone):
Heating: 1 each - Radiant Heater, Gas, Capacity = 175 kBtu/h
No minimum efficiency requirement applies
Fan System: None |
| 1 | RH-3 (Single Zone):
Heating: 1 each - Radiant Heater, Gas, Capacity = 175 kBtu/h
No minimum efficiency requirement applies
Fan System: None |
| 1 | RH-4 (Single Zone):
Heating: 1 each - Radiant Heater, Gas, Capacity = 175 kBtu/h
No minimum efficiency requirement applies
Fan System: None |
| 1 | RH-5 (Single Zone):
Heating: 1 each - Radiant Heater, Gas, Capacity = 175 kBtu/h
No minimum efficiency requirement applies
Fan System: None |
| 1 | RH-6 (Single Zone):
Heating: 1 each - Radiant Heater, Gas, Capacity = 175 kBtu/h
No minimum efficiency requirement applies
Fan System: None |
| 1 | RH-7 (Single Zone):
Heating: 1 each - Radiant Heater, Gas, Capacity = 175 kBtu/h
No minimum efficiency requirement applies
Fan System: None |

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2010) Standard requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

<u>DOUG KUHLE</u>	<u>MECH. DES.</u>	<u>Doug Kuhl</u>	<u>8-8-23</u>
Name - Title		Signature	Date



Inspection Checklist

Energy Code: 90.1 (2010) Standard

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2,6.4. 4.2.1,6.7. 2 [PR2] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
4.2.2,8.4. 1.1,8.4.1. 2,8.7 [PR6] ²	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.7.2.4 [PR5] ¹	Detailed instructions for HVAC systems commissioning included on the plans or specifications for projects >=50,000 ft ² .	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Section # & Req.ID	Footing / Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.3.8 [FO9] ³	Freeze protection and snow/ice melting system sensors for future connection to controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.1.4,6.4.1.5 [ME1] ²	HVAC equipment efficiency verified. Non-NAECA HVAC equipment labeled as meeting 90.1.	Efficiency: _____	Efficiency: _____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
6.4.3.4.1 [ME3] ³	Stair and elevator shaft vents have motorized dampers that automatically close.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.4.2, 6.4.3.4.3 [ME4] ³	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.4.5 [ME39] ³	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.4.4 [ME5] ³	Ventilation fans >0.75 hp have automatic controls to shut off fan when not required.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.9 [ME6] ¹	Demand control ventilation provided for spaces >500 ft ² and >40 people/1000 ft ² occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.10 [ME40] ²	Single zone HVAC systems with fan motors >=5 hp have variable airflow controls. Air conditioning equipment with a cooling capacity >=110,000 Btu/h has variable airflow controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
6.4.3.10 [ME40] ²	Single zone HVAC systems with fan motors >=5 hp have variable airflow controls. Air conditioning equipment with a cooling capacity >=110,000 Btu/h has variable airflow controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
6.4.3.10 [ME40] ²	Single zone HVAC systems with fan motors >=5 hp have variable airflow controls. Air conditioning equipment with a cooling capacity >=110,000 Btu/h has variable airflow controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
6.4.3.10 [ME40] ²	Single zone HVAC systems with fan motors >=5 hp have variable airflow controls. Air conditioning equipment with a cooling capacity >=110,000 Btu/h has variable airflow controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.

☐ 1 High Impact (Tier 1)
 ☐ 2 Medium Impact (Tier 2)
 ☐ 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.3.10 [ME40] ²	Single zone HVAC systems with fan motors ≥ 5 hp have variable airflow controls. Air conditioning equipment with a cooling capacity $\geq 110,000$ Btu/h has variable airflow controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
6.4.3.10 [ME40] ²	Single zone HVAC systems with fan motors ≥ 5 hp have variable airflow controls. Air conditioning equipment with a cooling capacity $\geq 110,000$ Btu/h has variable airflow controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
6.4.3.10 [ME40] ²	Single zone HVAC systems with fan motors ≥ 5 hp have variable airflow controls. Air conditioning equipment with a cooling capacity $\geq 110,000$ Btu/h has variable airflow controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
6.4.4.1.1 [ME7] ³	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retardant.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.4.1.2 [ME8] ²	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	R- ____	R- ____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.4.1.3 [ME9] ²	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	____ in.	____ in.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.4.1.4 [ME41] ³	Thermally ineffective panel surfaces of sensible heating panels have insulation $\geq R-3.5$.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.4.2.1 [ME10] ²	Ducts and plenums sealed based on static pressure and location.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.5.2.3 [ME19] ³	Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
6.5.4.1 [ME25] ³	HVAC pumping systems >10 hp designed for variable fluid flow.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.6.1 [ME56] ¹	Exhaust air energy recovery on systems meeting Table 6.5.6.1.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.5.7.1.1 [ME32] ²	Kitchen hoods >5,000 cfm have make up air >=50% of exhaust air volume.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.5.7.1.5 [ME49] ³	Approved field test used to evaluate design air flow rates and demonstrate proper capture and containment of kitchen exhaust systems.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.5.7.2 [ME33] ¹	Fume hoods exhaust systems >=15,000 cfm have VAV hood exhaust and supply systems, direct make-up air or heat recovery.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.5.8.1 [ME34] ²	Unenclosed spaces that are heated use only radiant heat.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10] ²	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
10.4.1 [EL9] ²	Electric motors meet requirements where applicable.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
6.4.3.1.2 [FI3] ³	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.2 [FI20] ³	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.3.1 [FI21] ³	HVAC systems equipped with at least one automatic shutdown control.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.3.2 [FI22] ³	Setback controls allow automatic restart and temporary operation as required for maintenance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.7 [FI6] ³	When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.7.2.1 [FI7] ³	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.7.2.2 [FI8] ³	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.7.2.3 [FI9] ¹	An air and/or hydronic system balancing report is provided for HVAC systems serving zones >5,000 ft ² of conditioned area.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.7.2.4 [FI10] ¹	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
10.4.3 [FI24] ²	Elevators are designed with the proper lighting, ventilation power, and standby mode.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2010) Standard
Project Title: Rialto Manufacturing, Inc.
Project Type: Addition

Construction Site:
1632 Cascade Drive
Marion, OH 43302

Owner/Agent:
Josh Obenour
Rialto Manufacturing, Inc.
1632 Cascade Dr.
Marion, OH 43302

Designer/Contractor:
Paul Omness
ODI
140 Fairfax Rd.
Marion, OH 43302

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Manufacturing (Manufacturing:High Bay (25-50 ft. Floor to Ceiling Height))	29250	1.23	35978
Total Allowed Watts =			35978

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Manufacturing (Manufacturing:High Bay (25-50 ft. Floor to Ceiling Height))				
LED 1: A: 2X4 Surface Flat Panel: LED Panel 40W:	1	12	40	480
LED 2: B: 4'-0" Strip Light: LED Panel 44W:	1	19	50	950
LED 3: C: 24,000 Lumen High Bay: LED Other Fixture Unit 125W:	1	77	151	11627
LED 3 copy 1: C1: 12,000 Lumen High Bay: LED Other Fixture Unit 125W:	1	7	74	518
Total Proposed Watts =				13575

Interior Lighting PASSES: Design 62% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2010) Standard requirements in COMcheck Version 4.1.5.4 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

JACK PAHL - ELEC DESIGNER

Name - Title

Signature

Date

1/04/2023



Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2010) Standard
Project Title: Rialto Manufacturing, Inc.
Project Type: Addition
Exterior Lighting Zone: 3 (Other (LZ3))

Construction Site:
1632 Cascade Drive
Marion, OH 43302

Owner/Agent:
Josh Obenour
Rialto Manufacturing, Inc.
1632 Cascade Dr.
Marion, OH 43302

Designer/Contractor:
Paul Omness
ODI
140 Fairfax Rd.
Marion, OH 43302

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Wall Surface (Illuminated length of facade wall or surface)	580 ft	3.75	No	2175
Total Tradable Watts (a) =				0
Total Allowed Watts =				2175
Total Allowed Supplemental Watts (b) =				750

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

(b) A supplemental allowance equal to 750 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Wall Surface (Illuminated length of facade wall or surface 580 ft): Non-tradable Wattage				
LED 1: G: Wall Pack: LED Other Fixture Unit 103W:	1	13	100	1300
Total Tradable Proposed Watts =				0

Exterior Lighting PASSES: Design 0.0% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2010) Standard requirements in COMcheck Version 4.1.5.4 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

JACK PAUL-ELEC. DESIGNER

Name - Title

Signature

Date

1/04/2023



Inspection Checklist

Energy Code: 90.1 (2010) Standard

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2,8.4.1.1,8.4.1.2,8.7 [PR6] ²	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
4.2.2,9.4.4,9.7 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.7 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10] ²	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.4.1.1 [EL1] ²	Automatic controls to shut off all building lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.4.1.2 [EL2] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.4.1.3 [EL11] ²	Parking garage lighting is equipped with required lighting controls and daylight transition zone lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.4.1.4 [EL12] ¹	Primary sidelighted areas ≥ 250 ft ² are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.4.1.5 [EL13] ¹	Enclosed spaces with daylight area under skylights and rooftop monitors > 900 ft ² are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.4.1.7 [EL3] ²	Automatic lighting controls for exterior lighting installed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.4.1.6 [EL4] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.4.2 [EL6] ¹	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.4.3 [EL7] ¹	Exterior grounds lighting over 100 W provides > 60 lm/W unless on motion sensor or fixture is exempt from scope of code or from external LPD.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.6.2 [EL8] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

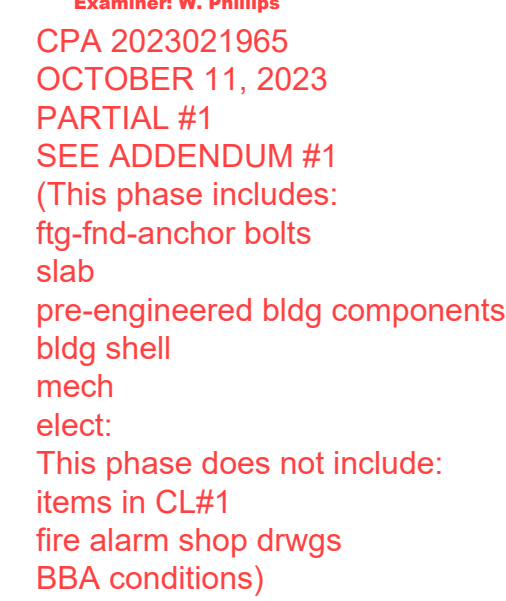
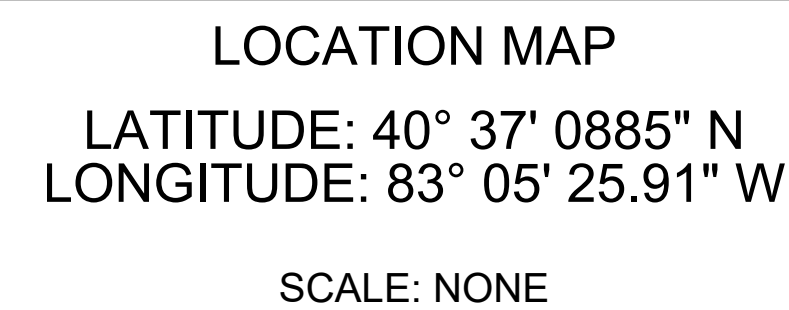
Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
8.7.2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.2.2.3 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
9.4.3 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Exterior Lighting fixture schedule for values.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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SITUATED IN THE STATE OF OHIO, COUNTY OF MARION, CITY OF MARION AND BEING PART
OF MARION TOWNSHIP

RIALTO MANUFACTURING INC.
 1632 CASCADE DR.
 MARION, OHIO 43302
 PHONE: (740) 914-4230
 FAX: (740) 914-4260

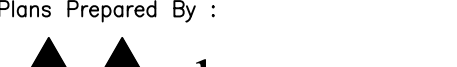

TITLE SHEET
GENERAL NOTES
EXISTING SITE PLAN
PROPOSED LAYOUT PLAN
GRADING PLAN
DETENTION BASIN

I HEREBY STATE THAT THESE PLANS HAVE BEEN PREPARED WITH OUR KNOWLEDGE AND CONCURRENCE AND REPRESENT OUR INTENT AND INTEREST.

OWNER AND DEVELOPER

DATE _____



EASEMENT REFERENCE				REVISIONS				<div>Plans Prepared By :  Makeever & Associates, Inc. P.O. BOX 325, 1810 E. MANSFIELD ST. BUCYRUS, OHIO 44820 Phone: (419) 562-7757 Fax: (419) 562-4717</div>		<div>Signatures below signify only concurrence with the general purpose and general location of the project. All technical details remain the responsibility of the engineer preparing the plans.</div> <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div>ENG. FILE NO. _____ IMP. ACCT. NO. _____ CONTRACT NO. _____ COMPLETION DATE _____ CONTRACTOR _____ _____ _____ _____ _____ _____</div>	<div><div>RIALTO MANUFACTURING, INC.</div><div>BUILDING ADDITION 2023</div><div>MARION, OHIO</div></div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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GENERAL NOTES

WHERE SPECIFIED, THE CURRENT STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (O.D.O.T. NUMBERS) SHALL APPLY EXCEPT AS MODIFIED OR EXPANDED HEREIN OR IN THE TECHNICAL SPECIFICATIONS

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS WERE OBTAINED FROM THE OWNERS OF THE UTILITY. THE LOCATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS APPROXIMATE. THE EXACT LOCATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE EXISTING UTILITIES IN THE PROJECT AREA SHALL BE PROTECTED DURING CONSTRUCTION.

UTILITIES NOTIFICATION

AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING COMPANIES:

1. OHIO UTILITY PROTECTION SERVICE (811)

MAINTAINING TRAFFIC

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND CONTROLLING TRAFFIC ON ALL STREETS AND ROADS AFFECTED BY CONSTRUCTION AND SHALL, PRIOR TO ANY CONSTRUCTION, SUBMIT A CONSTRUCTION SCHEDULE TO THE MARION TOWNSHIP, OHIO FOR APPROVAL INDICATING DATES AND DURATION OF EACH PHASE OF CONSTRUCTION.

ALL CONSTRUCTION SIGNS AND TEMPORARY TRAFFIC CONTROL AND PROTECTION DEVICES SHALL BE ERECTED AND MAINTAINED IN ACCORDANCE WITH "OHIO DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," AND O.D.O.T. ITEM 614 - MAINTAINING TRAFFIC. PAYMENT FOR MAINTAINING TRAFFIC SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PROJECT.

TESTING OF MATERIALS

ANY MATERIALS DELIVERED OR OTHERWISE INCORPORATED INTO THE PROJECT MAY BE SUBJECTED TO TESTING BY THE ENGINEER TO INSURE COMPLIANCE WITH SPECIFICATIONS. TESTS PERFORMED WILL BE PAID FOR BY THE OWNER WITH NO ADDITIONAL COST ASSUMED BY THE CONTRACTOR.

MISCELLANEOUS ITEMS

THE CONTRACTOR SHALL REMOVE ANY MAILBOX, STREET SIGNS, YARD LIGHTS, FENCES, LAWN ORNAMENTS, ETC. WHICH COULD BE DAMAGED DURING THE COURSE OF CONSTRUCTION AND RESET SAME AFTER CONSTRUCTION HAS PASSED THE AREA.

ANY CATCH BASINS, LAWNS, DRIVEWAYS, OR OTHER VARIOUS ITEMS DISTURBED DURING THE CONSTRUCTION OF THE PROJECT SHALL BE REPAIRED TO A LIKE OR BETTER CONDITION. PAYMENT OF THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PROJECT.

TRENCH PROTECTION

THE CONTRACTOR SHALL PROVIDE SHORING, SHEETING, BRACING, TRENCH BOX, ETC., AS REQUIRED TO PROTECT EXISTING STRUCTURES, UTILITIES, WORKMEN, ETC. PAYMENT OF THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PROJECT.

BACKFILLING SHALL FOLLOW IMMEDIATELY BEHIND CONSTRUCTION AND ONLY THE MINIMUM LENGTH OF TRENCH REQUIRED FOR CONSTRUCTION SHALL BE OPEN AT ANY GIVEN TIME.

CONCRETE

ALL CONCRETE UTILIZED WITHIN THIS PROJECT SHALL BE O.D.O.T. CLASS "QC MISC" UNLESS OTHERWISE STATED. PAYMENT FOR CONCRETE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PROJECT.

CLEARING AND GRUBBING

THIS WORK SHALL CONSIST OF CLEARING, GRUBBING, SCALPING, REMOVAL OF TREES AND STUMPS, AND DISPOSING OF ALL VEGETATION AND DEBRIS WITHIN THE LIMITS OF THE PROJECT AREA AS DIRECTED BY THE ENGINEER. PAYMENT FOR CLEARING AND GRUBBING SHALL BE INCLUDED IN THE CONTRACT PRICES FOR THE PROJECT.

AGGREGATE BACKFILL

CONTRACTOR SHALL USE O.D.O.T. ITEM 304 GRANULAR BACKFILL IN ALL DISTURBED ASPHALT OR ASPHALT AREAS UNLESS OTHERWISE NOTED. PAYMENT FOR AGGREGATE BACKFILL MATERIAL SHALL BE INCLUDED IN THE CONTRACT PRICES FOR THE PROJECT.

EARTH BACKFILL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING SUITABLE EARTH BACKFILL IN ALL GRASS AREAS. THE TOP 6 INCHES OF THE FILL MATERIAL SHALL BE TOPSOIL. PAYMENT FOR EARTH BACKFILL MATERIAL AND TOPSOIL SHALL BE INCLUDED IN THE CONTRACT PRICES FOR THE PROJECT.

SEEDING AND MULCHING

ALL GRASS AREAS DISTURBED DURING THE COURSE OF THE CONTRACT SHALL BE PROPERLY SEEDED, ROLLED, AND FERTILIZED ACCORDING TO O.D.O.T. ITEM 659. PAYMENT FOR SEEDING AND MULCHING SHALL BE INCLUDED IN THE CONTRACT PRICES FOR THE PROJECT.

EXCAVATION

CONTRACTOR SHALL REMOVE ALL TOPSOIL ENCOUNTERED PRIOR TO PLACING PROPOSED FILL MATERIAL AND REPLACE WITH SUITABLE CLAY SOIL TO SUBGRADE ELEVATIONS. IN CUT AREAS, A MINIMUM OF 12" OF 203 MATERIAL SHALL BE REMOVED AND PLACED TO PROPER GRADE AND COMPACTION. PAYMENT FOR EXCAVATION SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PROJECT.

STORM SEWERS

THE CONTRACTOR MAY USE THE FOLLOWING MATERIAL SPECIFICATIONS IN PREPARING THE UNIT PRICE BID FOR THE STORM SEWER CONDUIT.

- AASHTO M-294 TYPE "S" CORRUGATED POLYETHYLENE PIPE WITH BUILT IN BELL AND SPIGOT (PER ASTM M-249) WITH GASKETS (PER ASTM F-477) FOR SIZES: 6" - 8"
- ADS N-12 ST 1B PIPE (PER ASTM F-2648) WITH BUILT IN BELL AND SPIGOT (PER ASTM F-2648) WITH GASKETS (PER ASTM F-477) FOR SIZES: 6" - 8"

TO INSURE PROPER HORIZONTAL AND VERTICAL ALIGNMENT OF THE STORM SEWERS DURING CONSTRUCTION, THE CONTRACTOR SHALL USE A LASER ALIGNMENT DEVICE CAPABLE OF BOTH HORIZONTAL AND VERTICAL ADJUSTMENT.

ALL TRENCHES FOR THE STORM SEWER SHALL CONFORM TO STANDARD DRAWING STM-5 BEDDING FOR STORM SEWERS LOCATED IN STANDARD DRAWINGS. PAYMENT FOR STORM SEWER TRENCH AND BEDDING SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PROJECT.

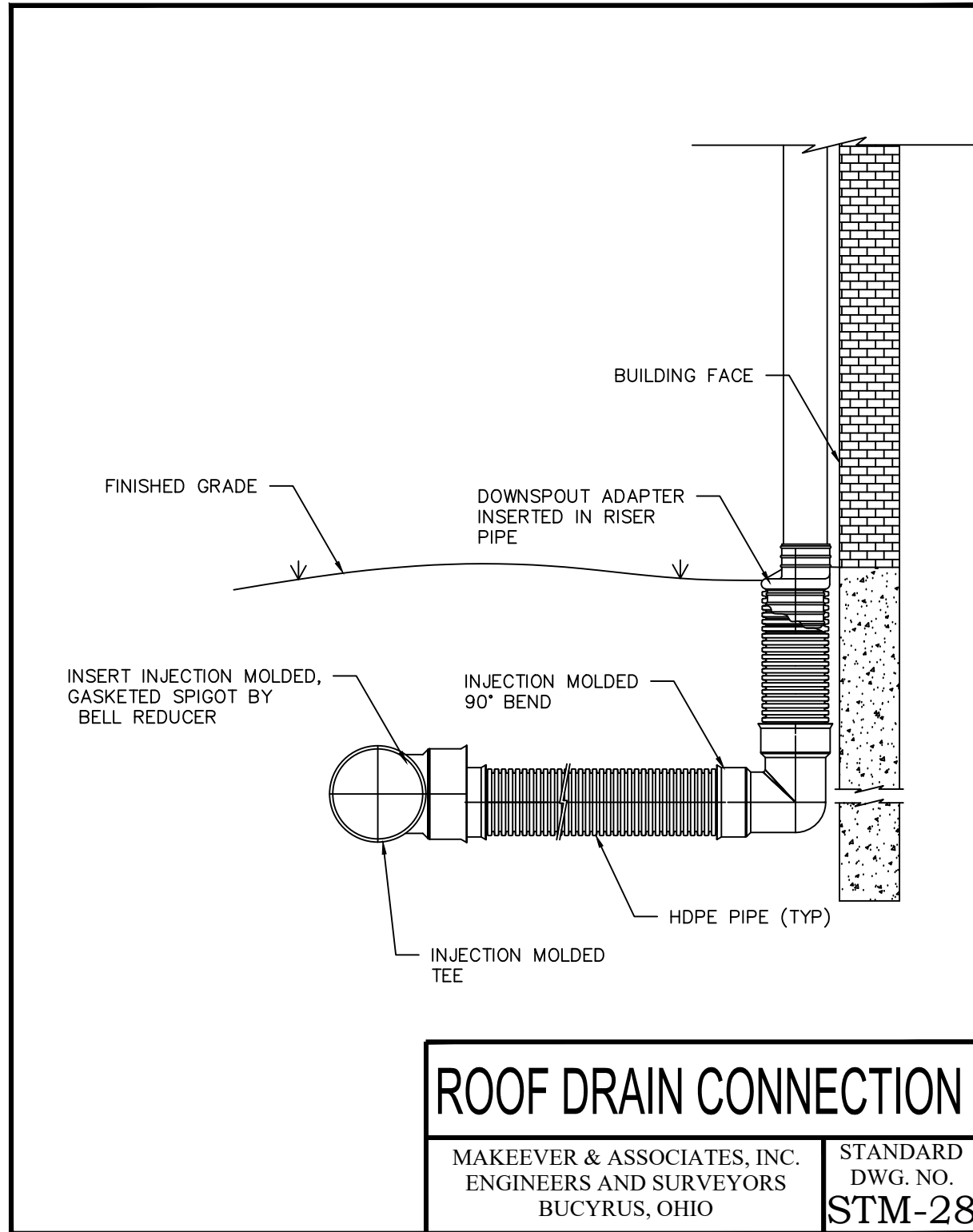
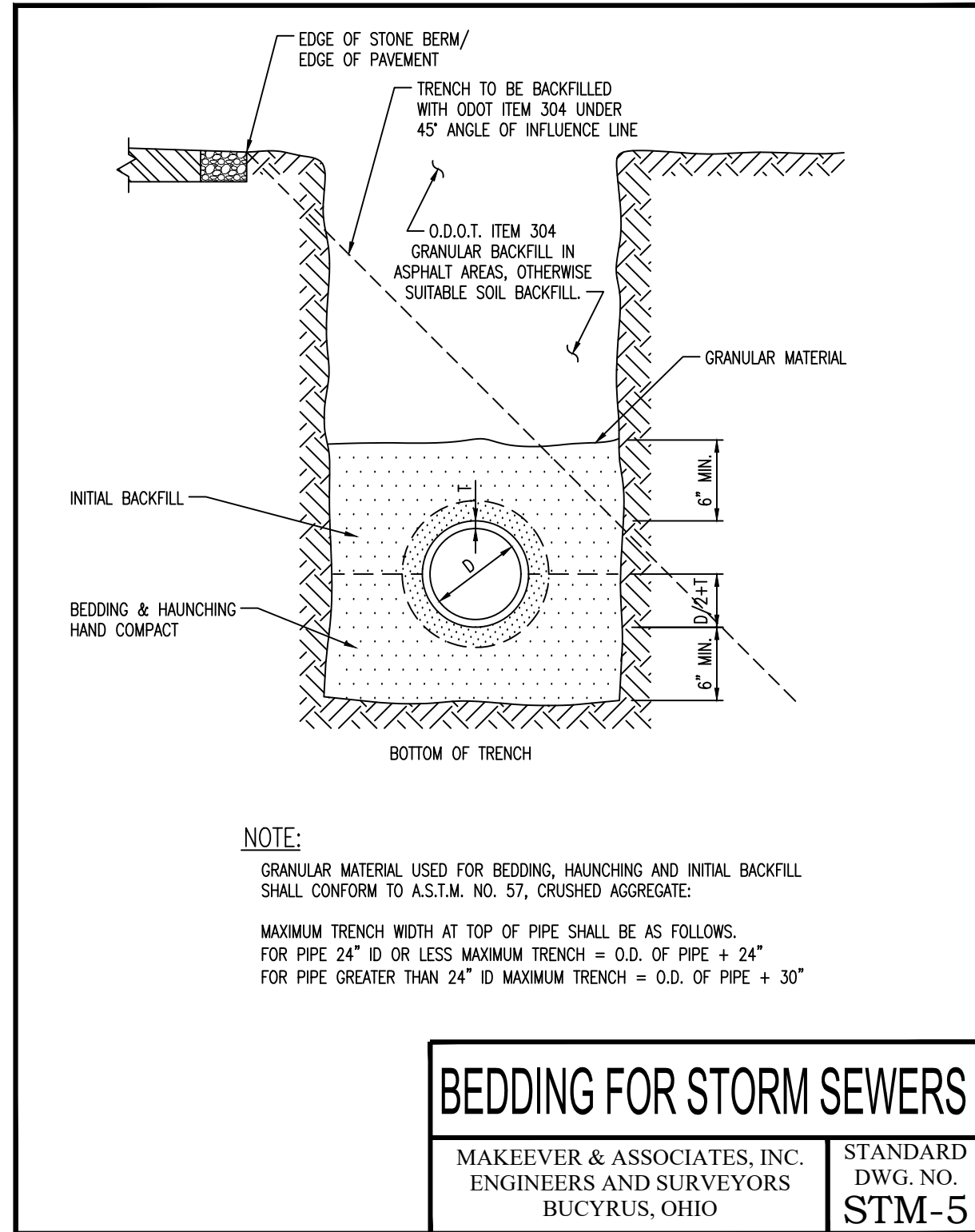
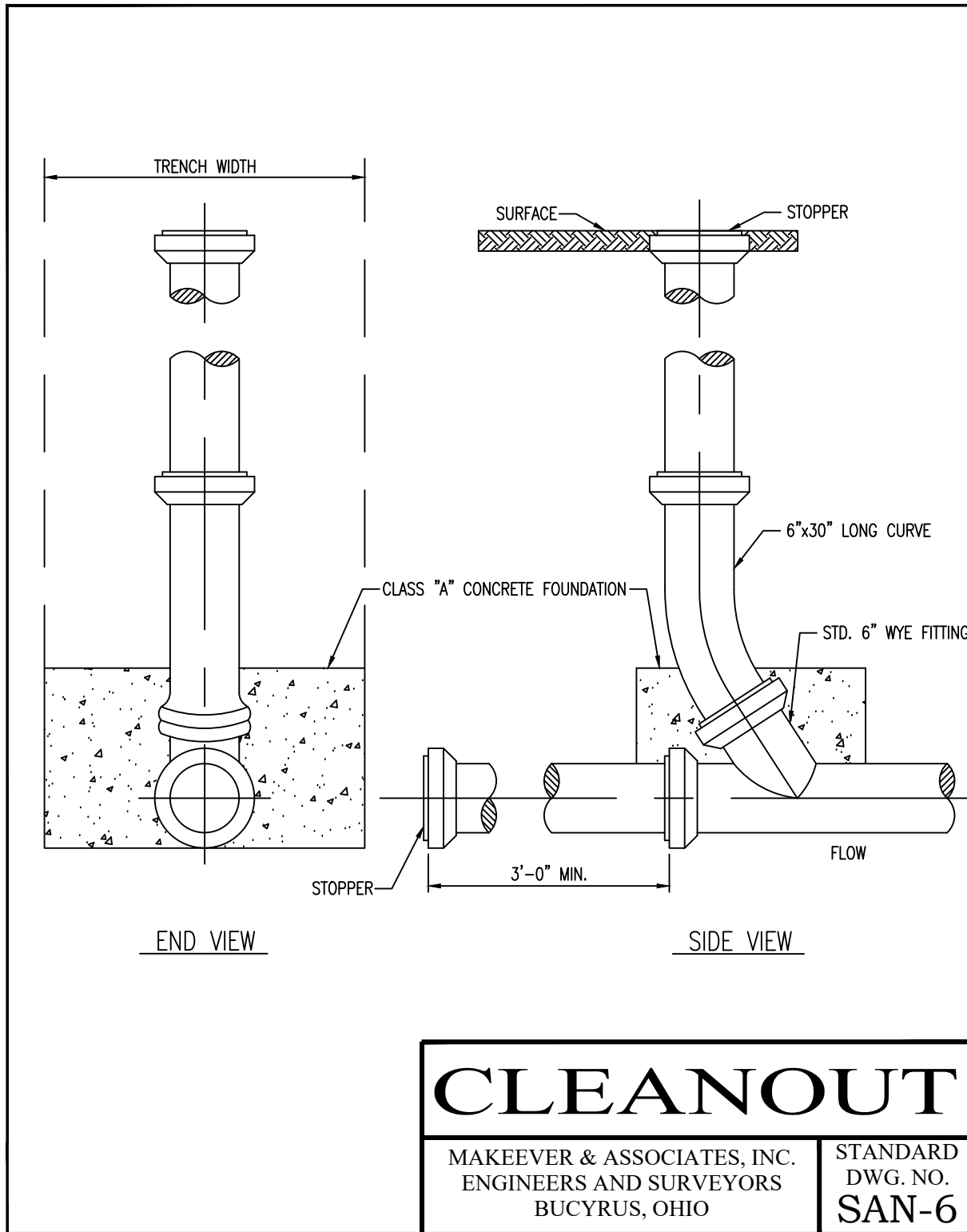
WATERLINE

REFERENCE AQUA MULTI-FAMILY, COMMERCIAL, AND INDUSTRIAL METER AND SERVICE STANDARDS FOR ALL WORK RELATED TO THE NEW WATER SERVICE AND FIRE HYDRANT ASSEMBLY.







































CPA 2023021965
OCTOBER 11, 2023

Partial Plan Approval
Examiner: W. Phillips
THIS PLAN DOES NOT INCLUDE:
slab
pre-engineered bldg components
bldg shell
mech
less than 12" deep
(BBA conditions)



LEGEND

FOUND	SET		
	3/4" IRON PIPE, UNLESS NOTED		SIGN
	5/8" IRON PIN, UNLESS NOTED		TELEPHONE BOX
	SURVEY NAIL		GAS METER
	RAIL ROAD SPIKE		GAS MARKER
	MAG SPIKE		GAS VALVE
	T BAR		TREE
	CONCRETE MONUMENT		EVERGREEN TREE
	CATCH BASIN		SHRUB
	STORM MANHOLE		STUMP
	TILE DROP		SANITARY SEWER
	CLEAN OUT		STORM SEWER
	SANITARY MANHOLE		WATER LINE
	WELL		ELECTRIC LINE
	ELECTRIC TRANSFORMER		TELEPHONE LINE
	AIR CONDITIONER UNIT		CABLE TV LINE
	FLAG POLE		GAS LINE
	POWER POLE		FENCE
	GUY WIRE		TREE LINE

EASEMENT REFERENCE				REVISIONS				Plans Prepared By : P.O. BOX 325, 1810 E. MANSFIELD ST. BUCYRUS, OHIO 44820 Phone: (419) 562-7757 Fax: (419) 562-4717 _____ DYLAN J. WYATT E-86763 Ohio Reg. No. _____ Date _____	GENERAL NOTES	ENG. FILE NO. _____ IMP. ACCT. NO. _____ CONTRACT NO. _____ COMPLETION DATE _____ CONTRACTOR _____	RIALTO MANUFACTURING, INC. BUILDING ADDITION 2023 MARION, OHIO Scale : Horiz. = AS NOTED Vert. = AS NOTED Original Sheet Size = 24"x36" Date : 07/26/2023		Sheet No. : 2 OF 6 S:\2022\091\Staking Dwg. No. : 2022-091-002E
City's No.	County	Recorder	Grantor	No.	Description	Approval	Date						
					AS BUILT								

CPA 2023021965

OCTOBER 11, 20

PARTIAL #1

ADDENDUM
(This phase includes

ALL BE INSTALLED TO

EXISTING BUILDING.
slab
CAN (614) 882-6586 Y5

pre-engineered ble

bldg shell

mech
elect:

This phase does not

items in CL#1

fire alarm shop driv

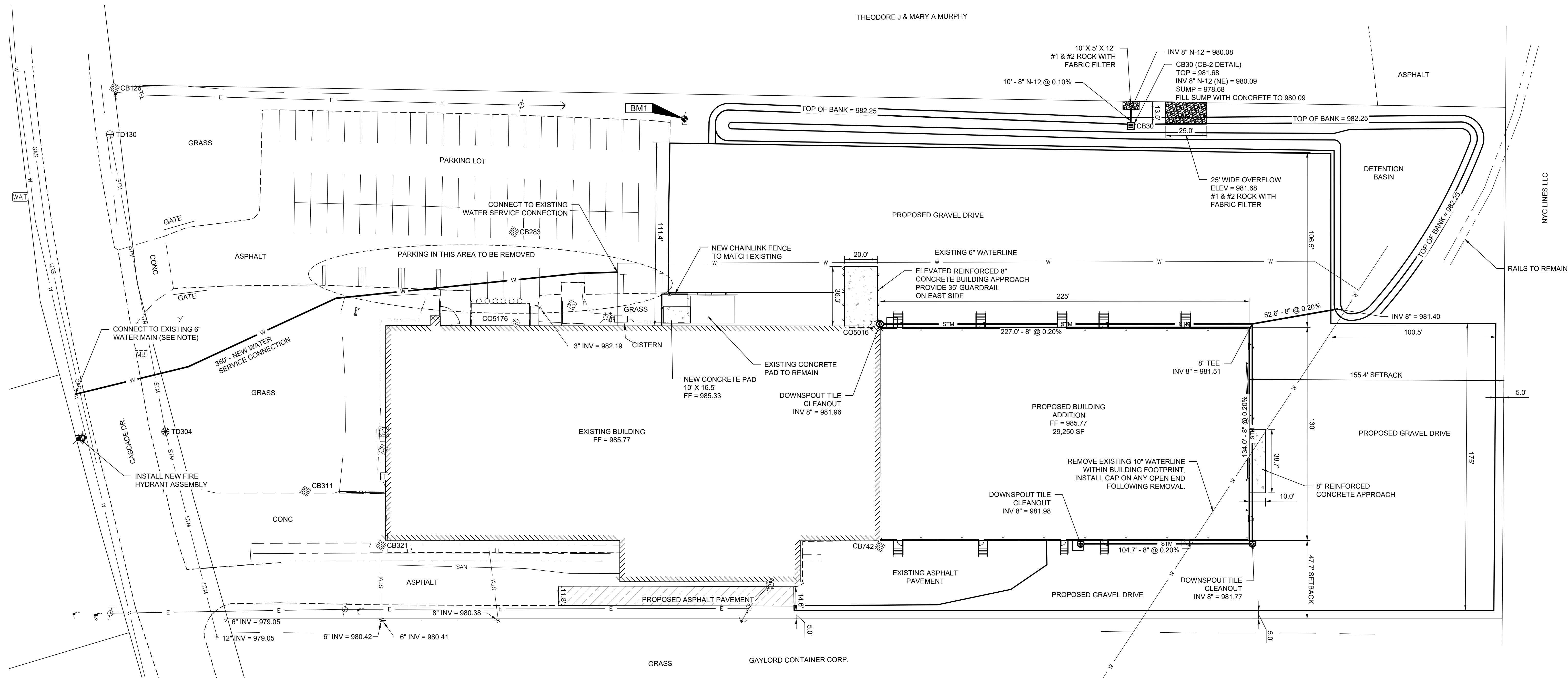
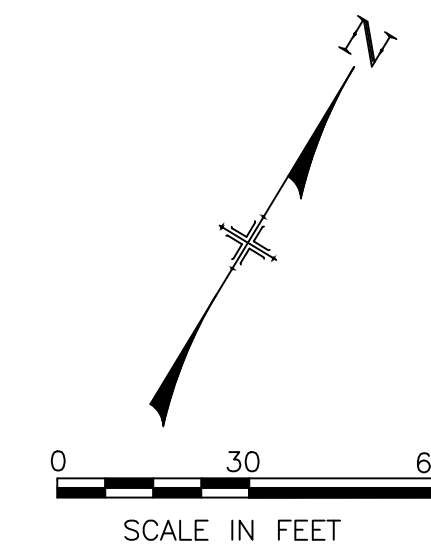
BBA conditions)

THE NEW FIRE HYDRANT ASSEMBLY AND NEW WATER SERVICE CONNECTION SHALL BE INSTALLED IN ACCORDANCE WITH AQUA OHIO COMMERCIAL METER AND SERVICE STANDARDS. COORDINATE ALL WORK WITH AQUA OHIO, JAKE LOGAN (614) 882-6586 X50559.

BENCHMARK #2: ELEV - 985.325

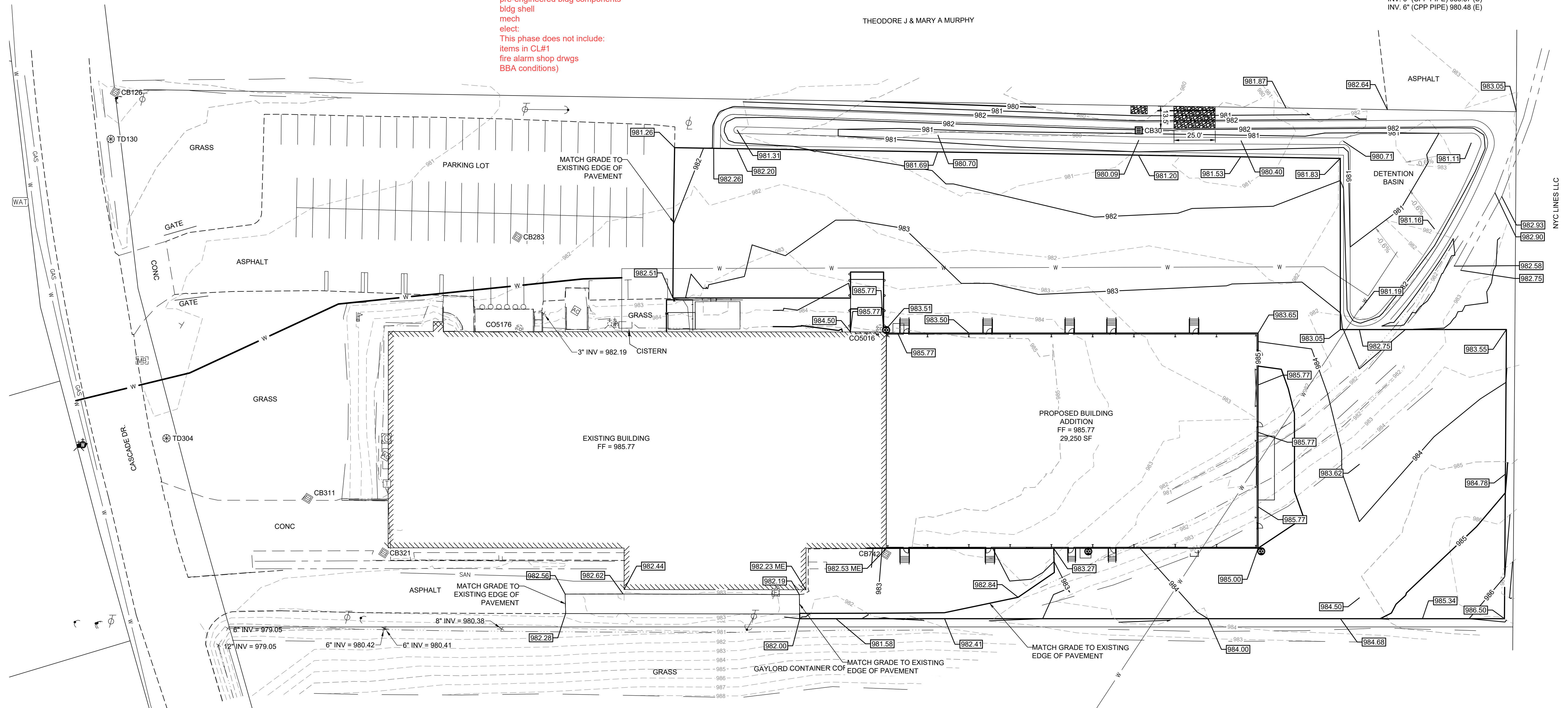
INV. 6" (CPP PIPE) 980.48 (E)

PROPOSED CONCRETE PAVEMENT

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0 30 60
SCALE IN FEET

CB# 126	CB# 142
T.C. - 978.69	T.C. - 982.02
INV. 4" (CPP PIPE) 977.94 (W)	INV. 6" (CPP PIPE) 980.87 (E)
CB# 283	TD# 304
T.C. - 981.43	T.C. - 976.78
INV. 3" (PVC PIPE) 978.98 (S)	?????
CB# 311	COUT# 5016
T.C. - 981.26	T.C. - 985.65
INV. 4" (CPP PIPE) 979.91 (W)	INV. 6" (PVC PIPE) 982.15 (E)
CB# 321	COUT# 5176
T.C. - 981.29	T.C. - 982.25
INV. 6" (CPP PIPE) 980.57 (S)	?????
INV. 6" (CPP PIPE) 980.57 (S)	
INV. 6" (CPP PIPE) 980.48 (E)	



EASEMENT REFERENCE				REVISIONS				Plans Prepared By : <div style="display: flex; align-items: center;"> <div> akeever & Associates, Inc. P.O. BOX 325, 1810 E. MANSFIELD ST. BUCYRUS, OHIO 44820 Phone: (419) 562-7757 Fax: (419) 562-4717 </div> </div> <div style="text-align: center; margin-top: 10px;"> </div> <div style="text-align: center; margin-top: 10px;"> DYLAN J. WYATT <hr style="width: 100px; margin: 0 auto;"/> E-86763 Ohio Reg. No. _____ Date _____ </div>	
City's No.	County	Recorder	Page	No.	Description	Approval	Date		
Grantor									
					AS BUILT				

GRADING PLAN

ENG. FILE NO. _____

IMP. ACCT. NO. _____

CONTRACT NO. _____

COMPLETION DATE _____

CONTRACTOR _____

Scale : Horiz. = AS NOTED
Vert. = AS NOTED

Original Sheet Size = 24"x36"

Date : 07/26/2023

RIALTO MANUFACTURING, INC.

BUILDING ADDITION 2023

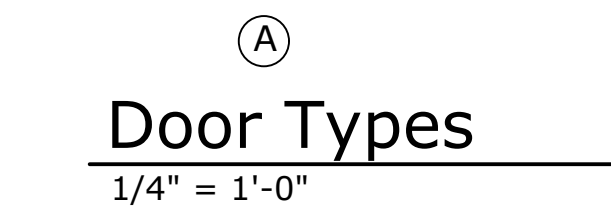
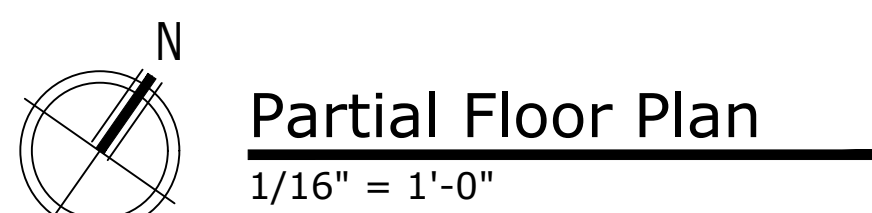
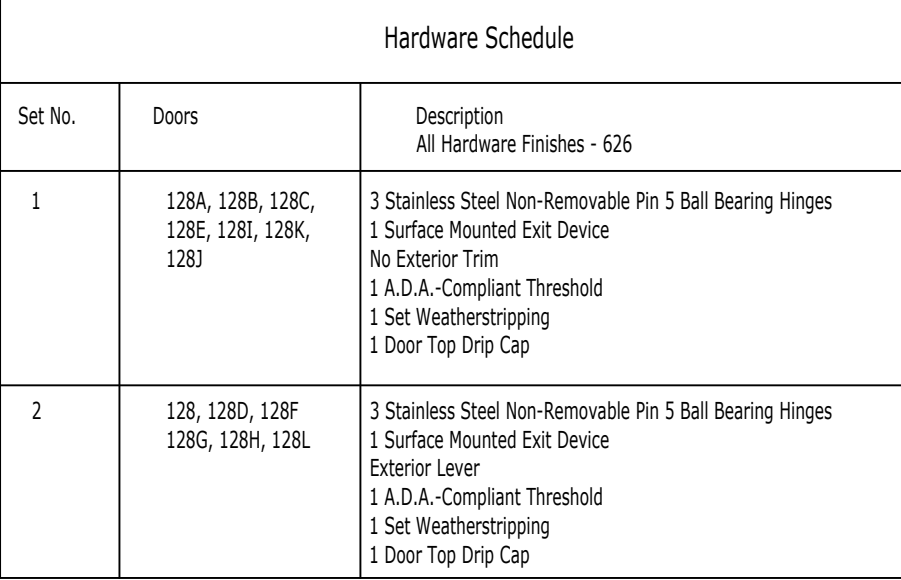
MARION, OHIO

Sheet No. : 5 OF 6

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Dwg. No. : 2022-091-002E

SHEET 1 OF 20



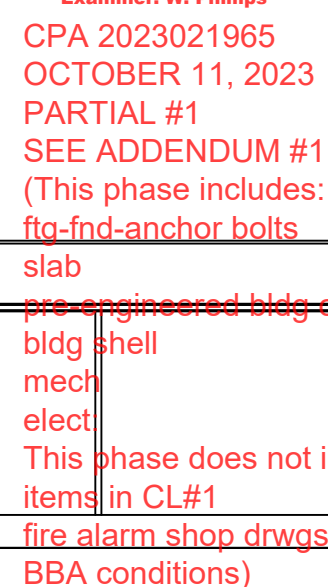
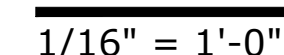
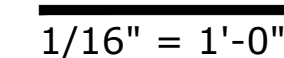
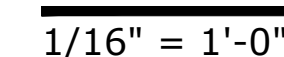
Room Finishes	
Floor	Smooth, Slip-Resistant Concrete
Base	None
Walls	Prefinished Metal Liner Panel to $\pm 7'-2"$ A.F.F.
Walls	Vinyl-faced PEMB Insulation
Ceiling	Vinyl-faced PEMB Insulation

- ## Exterior Stair Schedule
- | | |
|----|---|
| 1. | Exterior Steel Stair; Landing - 6'-0" W x 5'-0" D, 4 Treads - 11" each, 5 Risers - 6" each; Top of Landing @ 985.77', Grade at Base of Stairs @ 983.27'. |
| 2. | Exterior Concrete Stoop; 4,000 psi Concrete, Broom Finish, Frost Walls to 3'-0" Below Finish Grade; Landing - 6'-0" W x 5'-0" D, 4 Treads - 11" each, 5 Risers - 6" each; Top of Landing @ 985.77', Grade at Base of Landing @ 985.27'. |
| 3. | Exterior Steel Stair; Landing - 6'-0" W x 5'-0" D, 3 Treads - 11" each, 4 Risers - 5.35" each; Top of Landing @ 985.77', Grade at Base of Stairs @ 983.76'. |
| 4. | Exterior Steel Stair; Landing - 6'-0" W x 5'-0" D, 3 Treads - 11" each, 4 Risers - 6.66" each; Top of Landing @ 985.77', Grade at Base of Stairs @ 983.76'. |
| 5. | Exterior Steel Stair; Landing - 6'-0" W x 5'-0" D, 4 Treads - 11" each, 5 Risers - 6.4" each; Top of Landing @ 985.77', Grade at Base of Stairs @ 983.10'. |


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PROJECT NO: 22-113
CAD DWG FILE: 22-113 Rialto
DRAWN BY: PO
CHECKED BY: PO

A 1.0


$$1/16'' = 1'-0''$$


1. Exterior Steel Lining; Landing - 6'-0"W x 5'-0"D, 4 Trends - 11" each, 5 Risers - 6" each; Top of Landing @ 985.77', Grade at Base of Stairs @ 983.27'.
2. Exterior Concrete Stoop; 4,000 psi Concrete, Broom Finish, Frost Walls to 3'-0" Below Finish Grade; Landing - 5'-0"W x 5'-0"D; Top of Landing @ 985.77', Grade at Base of Stairs @ 983.27'.
3. Exterior Steel Lining; Landing - 6'-0"W x 5'-0"D, 3 Trends - 11" each, 4 Risers - 5.35" each; Top of Landing @ 985.77', Grade at Base of Stairs @ 983.76'.
4. Exterior Steel Lining; Landing - 6'-0"W x 5'-0"D, 3 Trends - 11" each, 4 Risers - 6.66" each; Top of Landing @ 985.77', Grade at Base of Stairs @ 983.55'.
5. Exterior Steel Lining; Landing - 6'-0"W x 5'-0"D, 4 Trends - 11" each, 5 Risers - 6.4" each; Top of Landing @ 985.77', Grade at Base of Stairs @ 983.10'.



OMNESS DESIGN, INC.
140 FAIRFAX ROAD
MARION, OHIO 43302
CONSULTANTS

1632 Cascade Drive
Marion, OH 43302

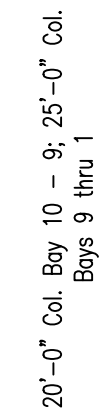
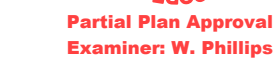
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DRAWN BY: PO
CHECKED BY: PO

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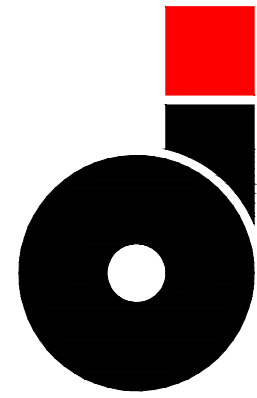
SHEET 3 OF 26


$$3/4'' = 1'-0'$$


CPA 2023021965
OCTOBER 11, 2023


$$1'' = 1' - 0''$$

A circular professional seal for Paul K. Omness, a Registered Architect in the State of Ohio. The seal features a double-lined circular border. Between the lines, the words "STATE OF OHIO" are written in an arc at the top, and "REGISTERED ARCHITECT" is written in an arc at the bottom. Two five-pointed stars are positioned on the left and right sides, separating the top and bottom text. In the center of the seal, the name "PAUL K. OMNESS" is printed above the number "13997".



OMNESS DESIGN, INC.
140 FAIRFAX ROAD
MARION, OHIO 43302

Addition to
Rialto Manufacturing, Inc.

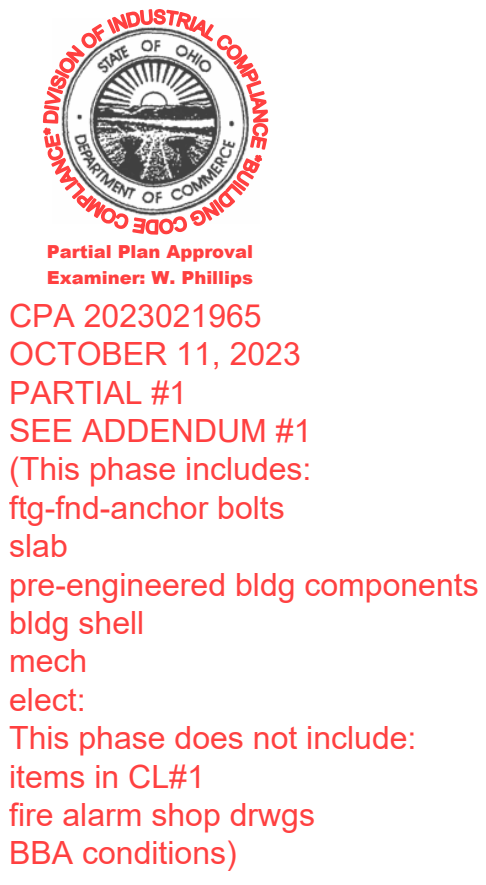
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Sections

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PROJECT NO: 22-128
CAD DWG FILE: 22-128 Rialto
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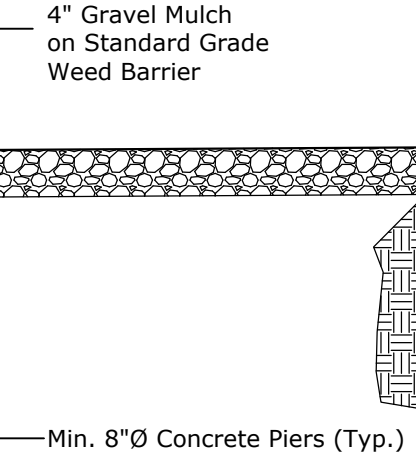


Section - Stoop 2
3/4" = 1'-0"

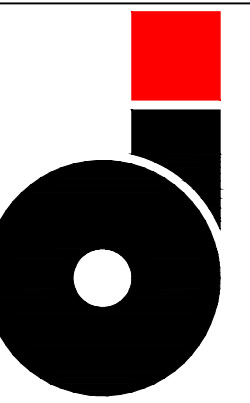


Refer to Section - Step 1 for Similar Notations

Section - Step 5



Alternate Typical Step Section



OMNESS DESIGN, INC.
140 FAIRFAX ROAD
MARION, OHIO 43302

CONSULTANTS

Addition to
Rialto Manufacturing, Inc.

1632 Cascade Drive Marion, OH 43302

SHEET TITLE

Stair & Step Sections

[illegible]

A 3.2

SHEET 7 OF 26

SECTION 079200 - JOINT SEALANTS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and color Samples.
- B. Environmental Limitations: Do not proceed with installation of joint sealants when ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg F.

PART 2 - PRODUCTS

2.1 JOINT SEALANTS

- A. Compatibility: Provide joint sealants, joint fillers, and other related materials that are compatible with one another and with joint substrates under service and application conditions.
- B. Sealant for General Exterior Use Where Another Type Is Not Specified:
- Single-component, neutral-curing silicone sealant, ASTM C 920, Type S; Grade NS; Class 25, for Use NT.
 - Single-component, nonsag urethane sealant, ASTM C 920, Type S; Grade NS; Class 25; and for Use NT.
 - Single-component, nonsag polysulfide sealant, ASTM C 920, Type S; Grade NS; Class 25; for Use NT.
 - Single-component, nonsag urethane sealant, ASTM C 920, Type S; Grade NS; Class 25; for Use T.
- C. Sealant for Exterior Traffic-Bearing Joints, Where Slope Allows Use of Pourable Sealant:
- Single-component, pourable urethane sealant, ASTM C 920, Type S; Grade P; Class 25; for Use T.
- D. Sealant for Interior Use at Perimeters of Door and Window Frames:
- Acrylic latex or siliconized acrylic latex, ASTM C 834, Type OP, Grade NF.
- E. Acoustical Sealant:
- Nonsag, paintable, nonstaining latex sealant complying with ASTM C 834 that effectively reduces airborne sound transmission as demonstrated by testing according to ASTM E 90.
- 2.2 MISCELLANEOUS MATERIALS
- A. Provide sealant backings of materials that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
- B. Cylindrical Sealant Backings: ASTM C 1330, of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
- C. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.
- D. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Comply with ASTM C 1193.
- B. Install sealant backings to support sealants during application and to produce cross-sectional shapes and depths of installed sealants that allow optimum sealant movement capability.
- C. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.
- D. Acoustical Sealant Installation: At sound-rated assemblies and elsewhere as indicated, seal perimeters, control joints, openings, and penetrations with a continuous bead of acoustical sealant. Install acoustical sealant at both faces of partitions. Comply with ASTM C 919.

END OF SECTION 079200

SECTION 081113 - HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and Shop Drawings.

PART 2 - PRODUCTS

2.1 HOLLOW METAL DOORS AND FRAMES

- A. Frames: ANSI A250.8; conceal fastenings unless otherwise indicated.
- Steel Sheet for Interior Frames: 0.042-inch- minimum thickness.
 - Interior Frame Construction: Knocked down.
 - Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 with reinforcement plates from same material as frames.
 - Frame Anchors: Not less than 0.042 inch thick.
- B. Prepare doors and frames to receive mortised and concealed hardware according to SDI A250.6 and BHMA A156.115.
- C. Reinforce doors and frames to receive surface-applied hardware.
- D. Prime Finish: Manufacturer's standard, factory-applied coat of lead- and chromate-free primer complying with SDI A250.10 acceptance criteria.

2.2 MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A 1011/A 1011M, A250.8, Class 25, for exposed applications.
- B. Frame Anchors: ASTM A 879/A 879M, A250.8, Class 25, for exposed applications.
- For anchors built into exterior walls, sheet steel complying with ASTM A 1008/A 1008M or ASTM A 1011/A 1011M, not dip galvanized according to ASTM A 153/A 153M, Class B.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install hollow metal frames to comply with SDI A250.11.
- Fire-Rated Frames: Install according to NFPA 80.
- B. Install doors to provide clearances between doors and frames as indicated in SDI A250.11.
- C. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying rust-inhibitive primer.

END OF SECTION 081113

SECTION 081416 - FLUSH WOOD DOORS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Samples for factory-finished doors.

PART 2 - PRODUCTS

2.1 FLUSH WOOD DOORS

2.2 DOOR CONSTRUCTION, GENERAL

- A. Quality Standard: WDMA I.S.1-A.
- B. WDMA I.S.1-A Performance Grade:
- Heavy duty unless otherwise indicated.
- C. Particleboard-Core Doors: Provide structural composite lumber cores instead of particleboard cores for doors with protection plates.
- 2.3 FLUSH WOOD DOORS
- A. Veneer-Faced Doors for Transparent Finish:
- Interior Solid-Core Doors: Premium grade, five-ply, particleboard cores.
 - Faces: Grade A rotary-cut select white birch.
 - Veneer Matching: Book and balance match.
 - Continuous matching for doors with transoms.

2.4 FABRICATION AND FINISHING

- A. Factory-fit doors to suit frame-opening sizes indicated and to comply with clearances specified.
- B. Factory-machine doors for hardware that is not surface applied. Locate hardware to comply with DHI-WDHS-3.
- C. Cut and trim openings to comply with referenced standards.
- D. Factory-finish doors indicated for transparent finish with stain and manufacturer's standard finish complying with WDMA TR-6, catalyzed polyurethane for grade specified for doors.

- Sheen: Satin.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install doors to comply with manufacturer's written instructions and WDMA I.S.1-A, and as indicated.
- Install fire-rated doors to comply with NFPA 80.
 - Install smoke- and draft-control doors according to NFPA 105.
- B. Align and fit doors in frames with uniform clearances and bevels.
- C. Clearances: As follows unless otherwise indicated:
- 1/8 inch at heads, jambs, and between pairs of doors.
 - 1/8 inch from bottom of door to top of decorative floor finish or covering.
 - 1/4 inch from bottom of door to top of threshold.
 - Comply with NFPA 80 for fire-rated doors.

END OF SECTION 081416

SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data, Shop Drawings, and color Samples.

- For entrance doors, include hardware schedule.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Design, engineer, fabricate, and install aluminum-framed storefronts to withstand structural loads indicated.
- Limit deflection of framing members normal to wall plane to 1/175 of clear span or an amount that restricts edge deflection of individual glazing lites to 3/4 inch, whichever is less.
- B. Windborne-Debris Resistance: Framing system and doors pass basic-protection testing requirements in ASTM E 1996 for Wind Zone 1 when tested according to ASTM E 1886.
- C. Air Infiltration: Limited to 0.06 cfm/sq. ft. of fixed framing and glass area when tested according to ASTM E 283 at a static-air-pressure difference of 6.24 lbf/sq. ft..
- D. Water Penetration: Systems do not evidence water leakage when tested according to ASTM E 331 at minimum differential pressure of 20 percent of positive wind-load design pressure but not less than 10 lbf/sq. ft..
- E. Thermal Transmittance (U-factor): Fixed glazing and framing areas shall have U-factor of not more than 0.40 Btu/sq. ft. x h x deg F as determined according to NFRC 100.

2.2 ALUMINUM-FRAMED STOREFRONTS

- A. Basis of Design: Tubelite T24650 and T14000.
- B. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated; ASTM B 209 sheet; ASTM B 221 extrusions.
- C. Framing Members: Manufacturer's standard extruded-aluminum framing members of thickness required and reinforced as required to support imposed loads.
- Construction: Thermally broken.
- D. Doors: 1-3/4-inch-thick glazed doors with minimum 0.125-inch-thick, extruded-aluminum tubular rail and stile members. Mechanically fasten corners with reinforcing brackets that are deeply penetrated and fillet welded or that incorporate concealed tie rods. Provide snap-on, extruded-aluminum glazing stops and preformed gaskets.
- Door Design: As indicated; Narrow stile; 2-1/8-inch nominal width.
 - Accessible Doors: Smooth surfaced for width of door in area within 10 inches above floor or ground plane.
 - Exterior Doors: Provide compression weather stripping at fixed stops. At other locations, provide sliding weather stripping retained in adjustable strip mortised into door edge.
- E. Glazing: Comply with Section 088000 "Glazing."
- F. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of black, resilient elastomeric glazing gaskets, setting blocks, and shims or spacers.
- G. Fasteners and Accessories: Compatible with adjacent materials, corrosion resistant, nonstaining, and nonbleeding. Use concealed fasteners except for application of door hardware.
- H. Fabrication: Fabricate framing in profiles indicated for flush glazing (without projecting stops). Provide subframes and reinforcing of types indicated or, if not indicated, as required for a complete system. Factory-assemble components to greatest extent possible. Disassemble components only as necessary for shipment and installation.
- Door Framing: Reinforce to support imposed loads. Factory-assemble door and frame units and factory-install hardware to greatest extent possible. Reinforce door and frame units for hardware indicated. Cut, drill, and tap for factory-installed hardware before finishing components.
- I. Aluminum Finish: Class I, clear anodic finish; complying with AAMA 611.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Isolate metal surfaces in contact with incompatible materials, including wood, by painting contact surfaces with bituminous coating or primer or by applying sealant or tape recommended by manufacturer.
- B. Install components to drain water passing joints, condensation occurring within framing members, and moisture migrating within the system to exterior.
- C. Set continuous sill members and flashing in full sealant bed as specified in Section 079200 "Joint Sealants" to produce weathertight installation.
- D. Install framing components true in alignment with established lines and grades to the following tolerances:
- Variation from Plane: Limit to 1/8 inch in 12 feet; 1/4 inch over total length.

- Alignment: For surfaces abutting in line, limit offset to 1/16 inch. For surfaces meeting at corners, limit offset to 1/32 inch.
 - Diagonal Measurements: Limit difference between diagonal measurements to 1/8 inch.
- E. Install doors without warp or rack. Adjust doors and hardware to provide tight fit at contact points and smooth operation.

END OF SECTION 084113

SECTION 088000 - GLAZING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and Samples.

PART 2 - PRODUCTS

2.1 GLASS, GENERAL

- A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.
- B. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.
- C. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the SGCC or another certification agency acceptable to authorities having jurisdiction or manufacturer. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
- D. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of IGCC.
- E. Windborne-Debris-Impact Resistance: Exterior glazing shall comply with basic-protection testing requirements in ASTM E 1996 for Wind Zone 1 when tested according to ASTM E 1886. Test specimens shall be no smaller in width and length than glazing indicated for use on Project and shall be installed in same manner as glazing indicated for use on Project.

2.2 GLASS PRODUCTS

- A. Fully Tempered Float Glass: ASTM C 1048, Kind FT; Type I; Quality-Q3.
- B. Heat-Strengthened Float Glass: ASTM C 1048, Kind HS; Type I; Quality-Q3.
- C. Reflective-Coated Glass: ASTM C 1376, coated by pyrolytic or vacuum deposition (sputter-coating) process.
- D. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190.

2.3 GLAZING SEALANTS

- A. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 25, Use NT.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Comply with combined recommendations of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are contained in GANA's "Glazing Manual."
- B. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
- C. Remove nonpermanent labels, and clean surfaces immediately after installation.

3.2 INSULATING-GLASS TYPES

- A. Glass Type C: Tinted insulating glass.
- Overall Unit Thickness: 1 inch.
 - Thickness of Each Glass Lite: 3/4".
 - Outdoor Lite: Heat-strengthened float glass.
 - Omitted.
 - Interspace Content: Air.
 - Indoor Lite: Clear fully tempered float glass.
 - Coating Location: Second surface.
 - Coating Color: Gray.
 - Solar Heat-Gain Coefficient: 0.14 maximum.
 - Safety glazing required.
- B. Glass Type b: Reflective-coated, tinted insulating glass.
- Overall Unit Thickness: 1 inch.
 - Thickness of Each Glass Lite: 3/4".
 - Outdoor Lite: Tinted fully tempered float glass.
 - Omitted.
 - Interspace Content: Air.
 - Indoor Lite: Clear fully tempered float glass.
 - Coating Location: Second surface.
 - Coating Color: Omitted.
- C. Glass Type a: Reflective-coated, tinted insulating spandrel glass.
- Overall Unit Thickness: 1 inch.
 - Thickness of Each Glass Lite: 3/4".
 - Outdoor Lite: Tinted fully tempered float glass.
 - Omitted.
 - Interspace Content: Air.
 - Indoor Lite: Clear fully tempered float glass.
 - Coating Location: Second surface.
 - Coating Color: Omitted.

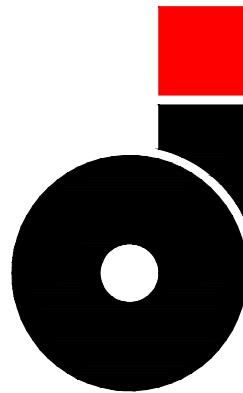
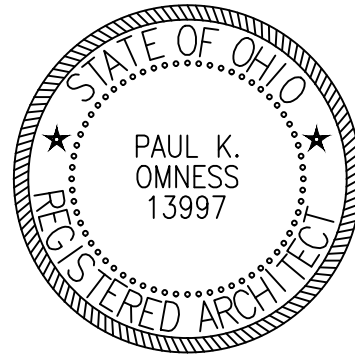
END OF SECTION 088000

SECTION 092216 - NON-STRUCTURAL METAL FRAMING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data.



OMNESS DESIGN, INC.
140 FAIRFAX ROAD
MARION, OHIO 43302
CONSULTANTS

Addition to
Rialto Manufacturing, Inc.

Marion, OH 43302

1632 Cascade Drive

SHEET TITLE

Specifications

MARK	DATE	DESCRIPTION	SD	DD	CD														ISSUE: 08-08-23
		SCHEMATIC DESIGN																	
		DESIGN DEVELOPMENT																	
		CONSTRUCTION DOCUMENTS																	

PROJECT NO: 22-128
CAD DWG FILE: 22-128 Rialto
DRAWN BY: PO
CHECKED BY: PO

SP 1.1

SHEET 8 OF 26

1. DEAD LOADS
 - BUILDING ROOF
 - A. BUILDING SELF WEIGHT = BY PEMB SUPPLIER
 - B. COLLATERAL = 5.0 PSF
 - C. TOTAL DEAD LOAD = 5.0 PSF + SELF WEIGHT
2. ROOF LIVE LOADS:
 - A. MINIMUM ROOF LIVE LOAD = 20 PSF
3. ROOF SNOW DESIGN PARAMETERS
 - A. GROUND SNOW LOAD $P_g = 20.0$ PSF
 - B. FLAT ROOF SNOW LOAD $P_f = 14.0$ PSF
 - C. MINIMUM UNIFORM ROOF DESIGN SNOW LOAD = 20.0 PSF
 - D. UNIFORM SNOW LOAD WITH UNBALANCED / DRIFTING = 14.0 PSF
 - E. SNOW EXPOSURE FACTOR $C_e = 1.0$
 - F. SNOW LOAD IMPORTANCE FACTOR $I = 1.0$
 - G. THERMAL FACTOR $C_t = 1.0$
 - H. DRIFTING SNOW AND UNBALANCED SNOW PER ASCE 7-10.

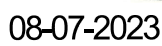
	ZONE	EFFECTIVE WIND AREA (SF)	POSITIVE PRESSURE (PSF)	NEGATIVE PRESSURE (PSF)
ROOF	①	10	10.0	-19.3
		50	10.0	-18.1
		100	10.0	-17.6
	②	10	10.0	-32.3
		50	10.0	-24.3
		100	10.0	-20.9
	③	10	10.0	-48.6
		50	10.0	-29.2
		100	10.0	-20.9
OVERHANGS	②	10	10.0	-27.7
		50	10.0	-26.6
		100	10.0	-26.1
	③	10	10.0	-45.7
		50	10.0	-22.9
		100	10.0	-13.1
WALLS	④	10	17.6	-19.1
		50	15.8	-17.3
		100	15.0	-16.5
	⑤	10	17.6	-23.5
		50	15.8	-19.9
		100	15.0	-18.3

- | | | |
|----|---|--|
| 5. | SEISMIC DESIGN PARAMETERS | |
| A. | SEISMIC IMPORTANCE FACTOR = 1.0 | |
| B. | SEISMIC OCCUPANCY CATEGORY = II | |
| C. | MAXIMUM CONSIDERED EARTHQUAKE GROUND MOTION AT 0.2 SECOND PERIOD, $SS = 13.0\%$ g | |
| D. | MAXIMUM CONSIDERED EARTHQUAKE GROUND MOTION AT 1.0 SECOND PERIOD, $S1 = 6.0\%$ g | |
| E. | SITE CLASS = D | |
| F. | $SDS = 0.137$ g | |
| G. | $SD1 = 0.085$ g | |
| H. | SEISMIC DESIGN CATEGORY = D | |
| I. | BUILDING SYSTEM: | STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE. |
| J. | SEISMIC RESISTING SYSTEM: | STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE. |
| J. | RESPONSE MODIFICATION FACTOR, R: | 3.0 |
| K. | DESIGN BASE SHEAR: | 0.046 |



CPA 2023021965
OCTOBER 11, 2023
PARTIAL #1
SEE ADDENDUM #1
(This phase includes:
ftg-fnd-anchor bolts
slab
pre-engineered bldg components
bldg shell
mech
elect:
This phase does not include:
items in CL#1
fire alarm shop drwgs
BBA conditions)

ITEM	REQ'D	INSPECTION TYPE		REFERENCED STANDARD	OBC REFERENCE
		CONT.	PER.		
FABRICATORS: (1705.2 OBC)	X				
INSPECTION AND NDE PER QUALITY ASSURANCE REQUIREMENTS OF AISC 360			X		
STRUCTURAL LOAD BEARING MEMBERS			X		
STRUCTURAL LOAD BEARING ASSEMBLIES			X		
STEEL CONSTRUCTION: (1705.2 OBC)	X				
INSPECTION AND NDE PER QUALITY ASSURANCE REQUIREMENTS OF AISC 360			X		
HIGH STRENGTH BOLTS			X		
STRUCTURAL STEEL MATERIALS			X		
STRUCTURAL STEEL WELDING			X		
STRUCTURAL STEEL FRAME JOINT DETAILS			X		
CONCRETE CONSTRUCTION	X				
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS INCLUDING PLACEMENT VERIFICATION			X	ACI 318: 25.2, 25.3, 26.5.1-26.5.3	1908.4
REINFORCING BAR WELDING			X	AWS D1.4 AND ACI 318: 26.5.4	
VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A-706			X	AWS D1.4 AND ACI 318: 26.5.4	
INSPECT SINGLE-PASS FILLET WELDS			X	AWS D1.4 AND ACI 318: 26.5.4	
INSPECT ALL OTHER WELDS		X		AWS D1.4 AND ACI 318: 26.5.4	
INSPECT ANCHORS CAST IN CONCRETE			X	ACI 318: 17.8.2	
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS					
ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS					
MECHANICAL ANCHORS AND ADHESIVE ANCHORS OTHER THAN THOSE DEFINED ABOVE					
VERIFY USE OF REQUIRED DESIGN MIX			X	ACI 318: CHAPTER 19 AND 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF CONCRETE		X		ASTM C 172, ASTM C 31, ACI 318: 26.4.5, 26.12	1908.10
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES		X		ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES			X	ACI 318: 26.4.7 - 26.4.9	1908.9
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS			X	ACI 318: CHAPTER 26.8	
SOILS	X				
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY			X		
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL			X		
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS			X		
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL		X			
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.			X		



CONSULTANTS



Addition to
RIALTO MANUFACTURING, INC.

1632 Cascade Drive
Marion, OH 43302

SHEET TITLE

STRUCTURAL GENERAL NOTES

[illegible]

PROJECT NO: 22-113
CAD DWG FILE:
DRAWN BY: ACH
CHECKED BY: MDD

S0.1

SHEET 1 OF 8

GENERAL NOTES:

1. ANY CHANGES MADE TO THE DESIGN IDENTIFIED ON THESE DRAWINGS AND/OR ASSOCIATED SPECIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO MAKING ANY MODIFICATIONS TO THE PROJECT. ANY LIABILITY AS A RESULT OF DESIGN MODIFICATIONS, AS WELL AS ANY COSTS ASSOCIATED WITH SUCH MODIFICATIONS, MADE WITHOUT THE WRITTEN APPROVAL OF ENGINEER OF RECORD SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS, DURING ERECTION. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY GUYS, BRACING OR TIEDOWNS THAT MIGHT BE NECESSARY. SUCH MATERIAL IS NOT SHOWN ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT, AND SHALL REMAIN THE CONTRACTOR'S PROPERTY. THE ENGINEER HAS NO EXPERTISE IN, AND TAKES NO RESPONSIBILITY FOR, CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY DURING CONSTRUCTION. PROCESSING AND/OR APPROVING SUBMITTALS MADE BY THE CONTRACTOR WHICH MAY CONTAIN INFORMATION RELATED TO CONSTRUCTION METHODS OR SAFETY ISSUES, OR PARTICIPATION IN MEETINGS WHERE SUCH ISSUES MIGHT BE DISCUSSED, SHALL NOT BE CONSTRUED AS VOLUNTARY ASSUMPTION BY THE ENGINEER OF ANY RESPONSIBILITY FOR SAFETY PROCEDURES.
3. IT IS SOLELY THE RESPONSIBILITY OF EACH CONTRACTOR TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE ENGINEER IS NOT ENGAGED IN, AND DOES NOT SUPERVISE CONSTRUCTION.
4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.

USE OF THESE DOCUMENTS:

1. THESE DOCUMENTS SHALL NOT BE REPRODUCED IN ANY MANNER FOR THE PRODUCTION OF FABRICATION OR ERECTION SUBMITTALS. REPRODUCTION OF THESE DOCUMENTS IN THAT MANNER CONSTITUTES COPYRIGHT INFRINGEMENT. ANY DOCUMENTS SUBMITTED FOR REVIEW THAT CONTAIN ANY IMAGE, SKETCH, DETAIL, ETC. FROM THESE DOCUMENTS WILL BE REJECTED.
2. ELECTRONIC VERSIONS OF THESE DOCUMENTS ARE THE PROPERTY OF DERWACTER & ASSOCIATES, LLC. ELECTRONIC OR CAD FILES WILL NOT BE MADE AVAILABLE FOR CONSTRUCTION PURPOSES.

REINFORCED MASONRY:

1. REINFORCED MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, f_m , OF 1500 PSI. MASONRY UNITS SHALL BE NORMAL WEIGHT BLOCK CONFORMING TO ASTM C90, AND SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2150 PSI. MORTAR SHALL CONFORM TO ASTM C270, TYPE S. MINIMUM GROUT COMPRESSIVE STRENGTH SHALL BE EQUAL OR EXCEED f_m , BUT NOT BE LESS THAN 2000 PSI.
2. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
3. CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE HOT DIPPED GALVANIZED. LADDER TYPE FORMED FROM 9 GAUGE COLD-DRAWN STEEL WIRE COMPLYING WITH ASTM A82. JOINT REINFORCING SHALL BE SPACED AT 16" O.C. VERTICALLY IN ALL MASONRY WALLS AND PIERS. U.N.O.
4. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF VERTICAL CONTROL JOINTS. HORIZONTAL BOND BEAM AND LINTEL REINFORCING SHALL BE CONTINUOUS ACROSS VERTICAL CONTROL JOINTS. JOINT REINFORCING SHALL BE STOPPED EACH SIDE OF VERTICAL CONTROL JOINTS.
5. ALL REINFORCED CELLS, ALL CELLS BELOW GRADE AND ALL CELLS BELOW FINISH FLOOR SHALL BE GROUTED SOLID.
6. AT VERTICAL REINFORCING LOCATIONS, PROVIDE DOWEL FROM FOOTING TO MATCH SIZE AND SPACING OF VERTICAL WALL REINFORCING. DOWELS SHALL BE EMBEDDED INTO THE FOOTING MINIMUM 9" INCHES AND SHALL HAVE A 90 DEGREE STANDARD HOOK.
7. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN 6 VERTICAL. DOWELS WILL BE GROUTED INTO A CELL IN VERTICAL ALIGNMENT, EVEN THOUGH IT IS IN A CELL ADJACENT TO THE VERTICAL WALL REINFORCING.
8. REINFORCING STEEL SHALL BE SECURED IN PLACE BEFORE GROUTING STARTS.
9. ALL REINFORCING LAP SPLICES SHALL BE IN ACCORDANCE WITH THE MASONRY REINFORCING LAP SPlice LENGTH SCHEDULE, U.N.O. SPlice VERTICAL SHALL BE WIRED TOGETHER. LAP SPLICES BETWEEN ADJACENT BARS SHALL BE STAGGERED A MINIMUM OF 24 BAR DIAMETERS.
10. VERTICAL BARS SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 96 DIAMETERS OF THE REINFORCING BAR WITH REBAR POSITIONERS. BARS SHALL BE ANCHORED IN PLACE PRIOR TO GROUTING.
11. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4 OF AN INCH FROM THE MASONRY AND NOT LESS THAN ONE BAR DIAMETER BETWEEN BARS.
12. VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 3"x4".
13. GROUT SHALL BE PLACED IN LIFTS NOT TO EXCEED 5 FEET. THE TOTAL HEIGHT OF 8-INCH (NOMINAL) OR LARGER MASONRY TO BE GROUTED PRIOR TO THE ERECTION OF ADDITIONAL MASONRY SHALL NOT EXCEED 24 FEET.
14. GROUTING SHALL BE STOPPED 1 1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT.
15. GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS OPERATION.
16. ALL BOLTS, ANCHORS, ETC., INSERTED IN THE WALLS, SHALL BE GROUTED SOLID INTO POSITION. CELLS AT ANCHOR LOCATIONS SHALL BE GROUTED TO MINIMUM 6" ABOVE AND 6" BELOW THE CENTERLINE OF THE ANCHOR.

MASONRY REINFORCING LAP SPlice LENGTH (IN.)							
BAR SIZE	NUMBER OF REINFORCING LAYERS						
	ONE LAYER			TWO LAYERS			
	NOMINAL WALL THICKNESS			NOMINAL WALL THICKNESS			
	8"	10"	12"	8"	10"	12"	
#4	25	25	25	31	31	31	
#5	31	31	31	48	48	48	
#6	57	52	52	98	98	98	
#7	79	61	61	177	121	121	
#8	112	86	74	-	149	149	

STRUCTURAL STEEL:

1. MATERIALS:
- A. STRUCTURAL STEEL WIDE FLANGE SHAPES: $F_y = 50$ KSI
- B. STRUCTURAL STEEL CHANNELS, ANGLES: $F_y = 50$ KSI
- C. STRUCTURAL TUBING (INCLUDES SQUARE AND ROUND SECTIONS): ASTM A500, GRADE C, $F_y = 50$ KSI
- D. HIGH STRENGTH BOLTS: ASTM A325 UNLESS NOTED OTHERWISE
- E. ANCHOR RODS: ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE. GALVANIZE IN EXTERIOR WALLS AND EXTERIOR LOCATIONS.
- F. SHEAR STUDS: ASTM A108, $F_y = 60$ KSI
- G. DEFORMED BAR ANCHORS: ASTM A498, $F_y = 60$ KSI
- H. ELECTRODES: SERIES E70
- I. ALL STRUCTURAL STEEL SHALL BE DOMESTICALLY PRODUCED AND COMPLY WITH ALL FEDERAL AND STATE REQUIREMENTS.
2. SPECIFICATIONS
- A. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1. UNLESS SPECIFICALLY SHOWN OTHERWISE, THE DESIGN FABRICATION AND ERECTION IS TO BE GOVERNED BY THE LATEST REVISION OF:
- i. AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS
- ii. AISC CODE OF STANDARD PRACTICES
- iii. STRUCTURAL WELDING CODE, AWS D1.1 OF THE AMERICAN WELDING SOCIETY
- iv. SPECIFICATIONS FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS
3. SUBMITTALS
- A. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL WHICH INCLUDE ERECTION PLANS, CONNECTIONS, HOLES, THREADED FASTENER TYPES AND FINISHES.
- B. SUBMITTALS MUST BE THE ORIGINAL WORK OF THE FABRICATOR OR DETAILER. ELECTRONIC REPRODUCTIONS OF THESE DOCUMENTS WILL NOT BE REVIEWED. ANY DELAY CREATED BY THE FAILURE TO COMPLY WITH THIS PROVISION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- C. THE SUBMITTAL MUST INCLUDE ALL REQUIRED FIELD VERIFICATION OF DETAILS AND DIMENSIONS.
- D. INDICATE MATERIAL SPECIFICATIONS, STRENGTHS AND FINISHES. INDICATE COMPLIANCE WITH ALL STATE AND FEDERAL REQUIREMENTS FOR DOMESTICALLY PRODUCED STEEL. RETAIN MILL CERTIFICATIONS AND DOMESTICALLY PRODUCED STEEL CERTIFICATIONS FOR ALL STRUCTURAL SHAPES FOR THE DURATION OF THE WARRANTY PERIOD OF THE STRUCTURE.
4. CONNECTIONS
- A. FIELD CONNECTIONS ARE TO BE BOLTED, EXCEPT AS INDICATED OTHERWISE. SHOP CONNECTIONS MAY BE EITHER WELDED OR BOLTED.
- B. CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR TO DEVELOP EITHER 100% OF THE FULL UNIFORM LOAD CAPACITY OF THE MEMBER OR THE FORCES SHOWN ON THE PLANS. THE MINIMUM CONNECTION CAPACITY SHALL BE 5.0 KIPS. DETAILS ARE PROVIDED SHOWING THE GENERAL ARRANGEMENT OF CONNECTIONS.
5. COATINGS:
- A. DO NOT PAINT STEEL OR ANCHOR RODS WHICH WILL BE ENCASED IN 3" MINIMUM OF CONCRETE OR ANY STEEL WHICH IS TO RECEIVE SPRAY-APPLIED OR INTUMESCENT FIREPROOFING.
- B. PAINT ALL INTERIOR STEEL WITH TWO COATS OF RED-OXIDE PRIMER.
- C. HOT-DIP GALVANIZE ALL EXTERIOR STEEL INCLUDING LINTELS AND SHELF ANGLES.
- D. PROVIDE A FIELD-APPLIED COAT OF ASPHALTIC MASTIC FOR ANY BELOW GRADE STEEL, NOT COVER BY 3" OF CONCRETE OR MASONRY GROUT, INCLUDING BASE PLATES AND ANCHOR RODS.

EPOXY ANCHORS:

1. EPOXY ANCHORING SHALL NOT BE USED EXCEPT WHERE SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS, OR WHEN APPROVED IN ADVANCE BY THE STRUCTURAL ENGINEER.
2. WHERE PERMITTED, EPOXY ANCHORING SHALL BE COMPLETED USING ONE OF THE FOLLOWING PRODUCTS:
- FOR USE IN CONCRETE:
- A. HIT HY-200 ADHESIVE ANCHOR, BY HILTI, INC. (ICC-ES REPORT #3187)
- FOR USE IN SOLID GROUTED MASONRY:
- A. HIT-70 WITH HAS ROD ANCHOR SYSTEM BY HILTI, INC. (ICC-ES REPORT #2682)
- B. HIT-70 WITH T2 ROD ANCHOR SYSTEM BY HILTI, INC. (ICC-ES REPORT #2682)
- C. SET-ADHESIVE SYSTEMS BY SIMPSON STRONG-TIE (ICC-ES REPORT #1772)
- D. CIA-GEL 7000 EPOXY BY USP STRUCTURAL CONNECTORS, INC. (ICC-ES REPORT #1702)
3. ANCHOR RODS USED FOR EPOXY ANCHORING SHALL BE THE TYPE SPECIFIED IN THE REFERENCED ICC-ES REPORT. THE ANCHOR SIZE SHALL BE AS INDICATED ON THE PLANS. THE ANCHOR ROD EMBEDMENT SHALL BE AS INDICATED ON THE PLANS, OR APPROVED IN ADVANCE BY THE STRUCTURAL ENGINEER.
4. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE EPOXY MANUFACTURER'S RECOMMENDATIONS AND THE CURRENT ICC-ES REPORT.
5. DRILLING SHALL BE PERFORMED WITH A ROTARY HAMMER DRILL AND CARBIDE TIPPED DRILL BIT IN ACCORDANCE WITH INSTRUCTOR'S ACCOMPANYING ADHESIVE CARTRIDGES AND APPLICABLE ICC-ESR (ALTERNATE METHODS OF DRILLING ARE PROHIBITED UNLESS APPROVED IN ADVANCE BY THE STRUCTURAL ENGINEER.)

FOUNDATIONS - GENERAL:

1. THE FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL REPORT (GCI PROJECT #22-6-26622) PREPARED BY GEOTECHNICAL CONSULTANTS, INC., DATED JULY 6, 2022.
- FOOTINGS SHALL BEAR ON SOILS CAPABLE OF SUSTAINING A NET ALLOWABLE BEARING PRESSURE OF 3.0 KSF UNDER SERVICE LIVE AND DEAD LOAD. ISOLATED SPREAD FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING A NET ALLOWABLE BEARING PRESSURE OF 3.0 KSF UNDER SERVICE LIVE AND DEAD LOAD. ALL FOOTINGS SHOULD BEAR ON STABLE, NATURAL NON-ORGANIC SOILS (EXTENDED THROUGH ANY EXISTING STONE LEFT IN PLACE) OR ON NEW, CONTROLLED FILL PLACED DIRECTLY OVER STABLE, NATURAL NON-ORGANIC SOILS (IF EXISTING STONE IS REMOVED).
2. FOOTINGS MAY BE POURED INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT.
3. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.
4. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR 36" TO 42" BELOW FINAL GRADE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST BOTTOM OF FOOTING ELEVATIONS SHOWN IN THE DOCUMENTS AS REQUIRED TO ENSURE MINIMUM FOOTING EMBEDMENT AND TO REACH THE REQUIRED BEARING ELEVATION AS SHOWN IN THE GEOTECHNICAL ENGINEERING REPORT.
5. FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE AND CURED.
6. WHERE FOUNDATION WALLS ARE TO HAVE EARTH PLACED ON EACH SIDE, PLACE FILL SIMULTANEOUSLY SO AS TO MAINTAIN A COMMON ELEVATION ON EACH SIDE OF THE WALL.
7. FOUNDATION CONCRETE SHALL HAVE REACHED A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI BEFORE BEING LOADED. STRENGTHS SHALL BE VERIFIED BY TEST.

REINFORCED CONCRETE:

1. MATERIALS:
- A. SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
- | CAST-IN PLACE CONCRETE | | | | | |
|--|-------|-------------|-------------------|------------------|----------------|
| LOCATION | CLASS | f_c (PSI) | MIN. CEMENT (LBS) | MIN. AIR CONTENT | MAX. W/C RATIO |
| FOOTINGS | I | 3,000 | 517 | ENTRAPPED | .50 |
| PERIMETER WALL / PIERS / RETAINING WALLS | III | 4,500 | 564 | 5% +/- 1% | .45 |
| INTERIOR SLAB ON GRADE | III | 3,500 | 540 | ENTRAPPED | .45 |
| EXTERIOR SLAB ON GRADE | IV | 4,500 | 564 | 6% +/- 1% | .45 |
- B. SUBMIT CONCRETE MIX DESIGN FOR APPROVAL IN ACCORDANCE TO ACI 301. MIX DESIGNS SHALL INCLUDE ALL BACKUP DATA MATERIAL WITH COMPRESSIVE STRENGTH BREAKS BASED ON EXPERIENCE OR TRIAL MIX PER ACI 301. SUBMIT THREE (3) SETS FOR REVIEW. THE MIX DESIGNS MUST INCLUDE THE BATCH IDENTIFICATION NUMBER AND THE CLASS IDENTIFICATION FROM THE TABLE ABOVE. FAILURE TO INCLUDE BOTH OF THESE ITEMS WILL RESULT IN THE RETURN OF THE MIX DESIGNS WITHOUT REVIEW.
2. FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES.
3. CONTINGENCIES: PROVIDE SUPPORTS AS REQUIRED TO MAINTAIN ALIGNMENT OF SCHEDULED REINFORCING. SUCH SUPPORTS ARE TO BE REFLECTED IN THE BID. THE USE OF CLAY BRICK IS NOT ACCEPTABLE.
4. FOOTINGS:
- A. DOWELS IN FOOTINGS TO MATCH SIZE AND SPACING OF VERTICAL WALL REINFORCING.
- B. PROVIDE CONTROLLED LOW-STRENGTH MATERIAL (CLSM) UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES.
5. CONSTRUCTION JOINTS:
- A. PROVIDE CONSTRUCTION JOINTS AT ALL POUR STOP LOCATIONS. ALL CONSTRUCTION JOINTS ARE TO BE DOWELED, USE 3/4" SMOOTH DOWELS 1'-0" LONG EMBEDDED 6" EACH SIDE GREASE ONE END OR PROVIDE SLEEVE, UNLESS WHERE NOTED OTHERWISE ON DRAWINGS.

REINFORCING FOR CONCRETE:

1. REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60 OR ASTM A706, UNLESS NOTED OTHERWISE. ALL WELDED REINFORCING BARS SHALL CONFORM TO ASTM A706.
2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 (SHEETS FORM, NOT ROLLED)
3. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:
- A. UNFORMED SURFACE IN CONTACT WITH THE GROUND: 3 IN.
- B. FORMED SURFACES EXPOSED TO EARTH OR WEATHER:
- #6 BARS AND LARGER 2 IN.
- #5 BARS AND SMALLER 1 1/2 IN.
- C. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:
- BEAMS, GIRDERS, AND COLUMNS 1 1/2 IN.
- SLABS, WALLS, AND JOISTS #11 BARS AND SMALLER 3/4 IN.
- #14 AND #16 BARS 1 1/2 IN.
4. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE.

BAR SIZE	CLASS B SPLICE	COMPRESSION SPLICE	BAR SIZE	CLASS B SPLICE	COMPRESSION SPLICE
	LAP LENGTH (INCHES)	LAP LENGTH (INCHES)		LAP LENGTH (INCHES)	LAP LENGTH (INCHES)
#3	22	12	#8	72	30
#4	29	15	#9	81	34
#5	36	19	#10	89	38
#6	43	23	#11	98	42
#7	63	27			

5. COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
6. BASE PLATES, ANCHOR RODS, SUPPORT ANGLES, ETC., BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE.

STRUCTURAL LUMBER:

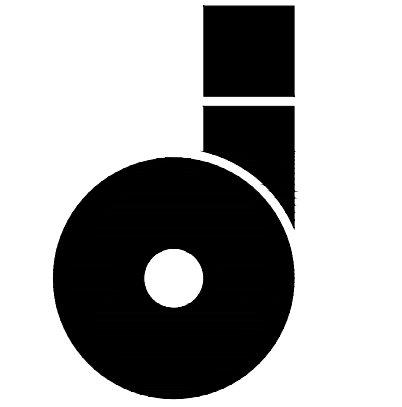
1. SPECIFICATIONS AND STANDARDS: DESIGN AND DETAILING OF WOOD FRAMING AND CONNECTIONS SHALL CONFORM TO THE CURRENT EDITION OF THE OHIO BUILDING CODE AND THE EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" ISSUED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION REFERENCED THERE-IN.
2. MATERIALS: THE MATERIALS USED FOR THE WORK OF THIS PROJECT ARE TO COMPLY WITH THE MINIMUM STANDARDS OF QUALITY LISTED BELOW, UNLESS SPECIFICALLY NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.

MINIMUM STRUCTURAL PROPERTIES FOR DIMENSIONAL LUMBER				
		STRUCTURAL PROPERTIES		
LOCATION	SIZE	Fb (psi)	Fv (psi)	E (ksi)
JOISTS	2X4	875	135	1400
	2X6	875	135	1400
	2X8	1200	175	1600
	2X10	1050	175	1600
	2X12	975	175	1600

3. ALL STRUCTURAL LUMBER SHALL BE KILN DRIED TO A MAXIMUM MOISTURE CONTENT OF 15%.
4. ALL WOOD MEMBERS EXPOSED TO THE ELEMENTS SHALL BE PRESERVATIVE PRESSURE TREATED. ALL WOOD MEMBERS SECURED TO OR PLACED AGAINST CONCRETE, MASONRY, AND/OR EARTH ARE TO BE PRESERVATIVE PRESSURE TREATED FOR GROUND CONTACT.
5. STRUCTURAL WOOD MEMBERS ARE NOT TO BE CUT, COPEd, OR MODIFIED, OTHER THAN CUTTING TO LENGTH OR MAKING PROVISIONS FOR FASTENERS. MAKE ALL CUTS TRUE AND SQUARE FOR FULL BEARING AT STRUCTURAL JOINTS.
6. CONNECT ALL WOOD FRAMING SECURELY TOGETHER WITH NAILS, SPIKES, OR FRAMING ANGLES. IN ACCORDANCE WITH TABLE 2304.9.1 OF THE OHIO BUILDING CODE. FASTENERS USED TO CONNECT PRESERVATIVE PRESSURE TREATED LUMBER SHALL BE OF STAINLESS STEEL OR HOT DIPPED GALVANIZED STEEL. PROVIDE PLYWOOD NAILING AS RECOMMENDED BY THE AMERICAN PLYWOOD ASSOC.
7. THE CONTRACTOR SHALL SUBMIT PRODUCT DATA TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION INDICATING COMPLIANCE WITH THIS SECTION.

DELEGATED DESIGN (PEMB):

1. ALL STRUCTURAL STEEL BUILDING ELEMENTS FROM THE COLUMN BASE PLATES UP, SHALL BE DESIGNED BY AN ENGINEER FAMILIAR WITH THE REQUIREMENTS OF THE CURRENT OHIO BUILDING CODE AND THE STANDARDS SET FORTH BY THE METAL BUILDING MANUFACTURER'S ASSOCIATION. ALL LOADS SHOWN ON THESE PLANS SHALL BE INTERPRETED AS MINIMUM STANDARDS. IF, THE DELEGATED ENGINEER'S CALCULATED LOADS DIFFER FROM WHAT IS SHOWN, THE HIGHER OF THE TWO SHALL GOVERN.
2. THE DELEGATED ENGINEER SHALL SUBMIT FABRICATION AND INSTALLATION DRAWINGS BEARING THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER. THE SUBMITTAL SHALL INCLUDE THE FOLLOWING INFORMATION:
- A. DIMENSIONED PLAN LAYOUT
- B. SEQUENCING SCHEDULE
- C. STRUCTURAL CALCULATIONS
- D. ERECTION DRAWINGS
- E. BUILDING REACTIONS
3. THE MANUFACTURER SHALL IAS ACCREDITED FOR METAL BUILDING SYSTEMS AC 472.
4. THE PRE-ENGINEERED METAL BUILDING SHALL BE DESIGNED FOR THE FOLLOWING DEFLECTION AND DRIFT LIMITATIONS:
- VERTICAL FRAME DEFLECTION: L/240 UNDER DESIGN SNOW LOAD OR ROOF LIVE LOAD, WHICHEVER IS MORE STRINGENT.
- HORIZONTAL FRAME DRIFT: H/100 UNDER 10 YEAR MRI WIND LOAD.
- PURLIN/OPEN WEB STEEL JOISTS VERTICAL DEFLECTION: L/240 UNDER DESIGN SNOW LOAD OR ROOF LIVE LOAD, WHICHEVER IS MORE STRINGENT.
- GIRT AND WIND POST HORIZONTAL DEFLECTION: L/240 UNDER WIND LOAD.



Addition to

RIALTO MANUFACTURING, INC

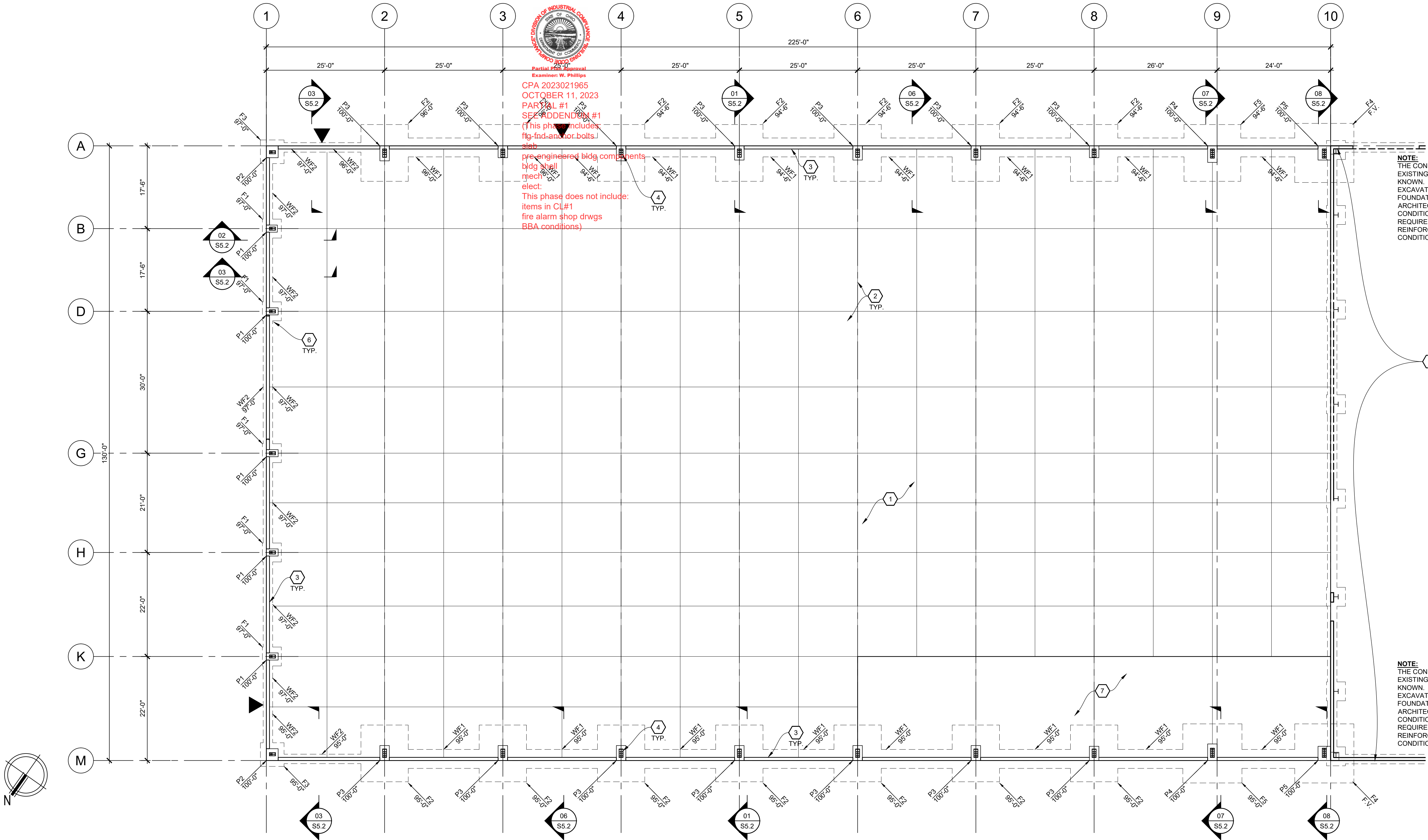
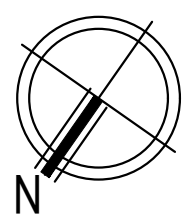
1632 Cascade Drive Marion, OH 43302

SHEET TITLE

**STRUCTURAL
GENERAL
NOTES**

MARK	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION
SD	10/04/2023	SCHEMATIC DESIGN	DD		DD		DD		DD		DD		DD		DD		DD		DD	
CD		CONSTRUCTION DOCUMENTS																		
PROJECT NO: 22-113																				
CAD DWG FILE:																				
DRAWN BY: ACH																				
CHECKED BY: MDD																				

S0.2



NOTE:
THE CONFIGURATION AND ELEVATION OF THE EXISTING BUILDING FOUNDATIONS IS NOT KNOWN. THE GENERAL CONTRACTOR SHALL EXCAVATE IN THIS AREA TO EXPOSE THE FOUNDATION. PROVIDE A SKETCH TO THE ARCHITECT DEPICTING THE EXISTING CONDITIONS. FOUNDATIONS IN THIS AREA MAY REQUIRE REVISIONS. DO NOT FABRICATE REINFORCING STEEL UNTIL THE EXISTING CONDITIONS HAVE BEEN EVALUATED.

NOTE:
THE CONFIGURATION AND ELEVATION OF THE EXISTING BUILDING FOUNDATIONS IS NOT KNOWN. THE GENERAL CONTRACTOR SHALL EXCAVATE IN THIS AREA TO EXPOSE THE FOUNDATION. PROVIDE A SKETCH TO THE ARCHITECT DEPICTING THE EXISTING CONDITIONS. FOUNDATIONS IN THIS AREA MAY REQUIRE REVISIONS. DO NOT FABRICATE REINFORCING STEEL UNTIL THE EXISTING CONDITIONS HAVE BEEN EVALUATED.

FOUNDATION PLAN NOTES

A	SEE SHEETS S0.1 AND S0.2 FOR GENERAL NOTES.
B	ALL ELEVATIONS ARE RELATIVE TO A FINISH FLOOR SLAB ELEVATION OF 100'-0" (REFERENCE ONLY). NEW FINISHED FLOOR TO MATCH THE FINISHED FLOOR ELEVATION OF THE ADJACENT STRUCTURE.
C	COORDINATE DOOR OPENINGS WITH ARCHITECTURAL DRAWINGS.
D	SEE DETAIL S5.1-01 FOR TYPICAL REINFORCING DETAILING.
E	STEPS IN FOOTING AS REQUIRED TO MAINTAIN FROST DEPTH AND EMBEDMENT TO REQUIRED BEARING ELEVATION. SEE S5.1-03 FOR TYPICAL DETAIL.
F	SEE DETAIL S5.1-05 FOR RE-ENTRANT SLAB REINFORCING, TYP. AT SLAB PENETRATIONS, DOOR OPENINGS, ETC.
G	SEE DETAIL S5.1-07 FOR TYPICAL PIPE PENETRATIONS THROUGH FOUNDATIONS.
H	SEE DETAIL S5.1-02 FOR REINFORCING AT INTERSECTING FOOTINGS.
I	SEE P.E.M.B. DRAWINGS FOR ANCHOR ROD DIAMETER AND PROJECTION, SEE S5.1-09 FOR ANCHOR ROD MATERIAL AND EMBEDMENT.

KEYED NOTES

MARK	DESCRIPTION
00	8" CONCRETE SLAB, REINF. w/WWR - 4x4-W4xW4 ON 15MIL. VAPOR BARRIER OVER A 6" MIN. COMPACTED COARSE AGGREGATE BASE. TOP OF SLAB AT 100'-0".
1	SLAB CONTRACTION OR CONSTRUCTION JOINT, SEE S5.1-04 .
2	8" CAST-IN-PLACE CONCRETE FOUNDATION WALL, REINF. WITH #5 AT 12" O.C., VERTICAL AND HORIZONTAL.
3	RIGID FRAME P.E.M.B. COLUMN ON CONCRETE PIER AND FOOTING. SEE PIER AND FOOTING SCHEDULES FOR SIZES AND REINFORCING. FOR ANCHOR BOLT INFORMATION SEE DETAIL S5.1-09 .
4	EXISTING BUILDING TO REMAIN. FIELD VERIFY EXISTING CONDITIONS.
5	P.E.M.B. END WALL COLUMN ON CONCRETE PIER AND FOOTING. SEE PIER AND FOOTING SCHEDULES FOR SIZES AND REINFORCING. FOR ANCHOR BOLT INFORMATION SEE DETAIL S5.1-09 .
6	12" CONCRETE SLAB, REINF. w/#5 AT 12" O.C. DISCONTINUOUS BETWEEN JOINTS ON 15MIL. VAPOR BARRIER OVER A 6" MIN. COMPACTED COARSE AGGREGATE BASE. TOP OF SLAB AT 100'-0". DOWEL SLAB AT CONTROL JOINTS SIMILAR TO SLAB CONSTRUCTION JOINT DETAIL IN S5.1-04 .

CONTINUOUS WALL FOOTING SCHEDULE

MARK	SIZE	REINFORCING	
		LONGITUDINAL	TRANSVERSE
WF1	4'-0" x CONT. x 1'-4"	(4) #5 CONT., TOP & BOT.	#5 BARS @ 12" O.C., TOP & BOT.
WF2	2'-0" x CONT. x 1'-4"	(3) #5 CONT., BOT.	N/A

COLUMN FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F1	4'-0" x 4'-0" x 1'-4"	(5) #5 BARS E.W. BOTTOM
F2	10'-0" x 12'-0" x 1'-4"	(14) #6 TRANS. BARS T&B & (12) #6 BARS LONG. T&B
F3	5'-0" x 5'-0" x 1'-4"	(6) #5 BARS E.W. BOTTOM
F4*	12'-6" x 12'-6" x 1'-4"	(14) #8 BARS E.W. T&B
F5	12'-6" x 12'-6" x 1'-4"	(14) #8 BARS E.W. T&B

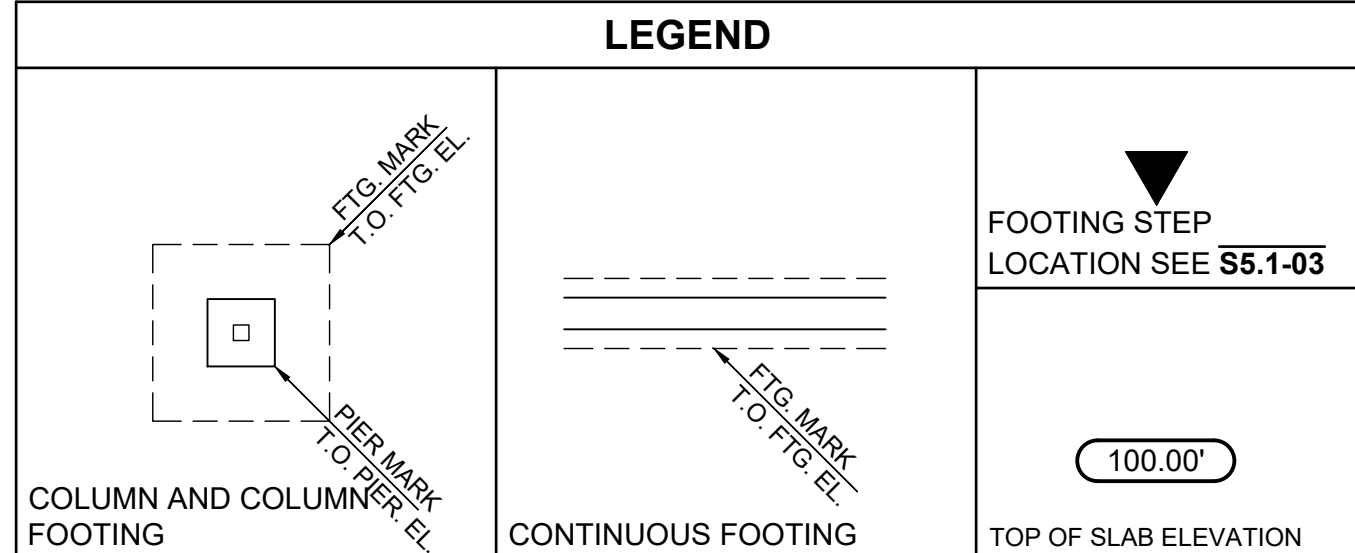
*FIELD VERIFY PER PLAN NOTES

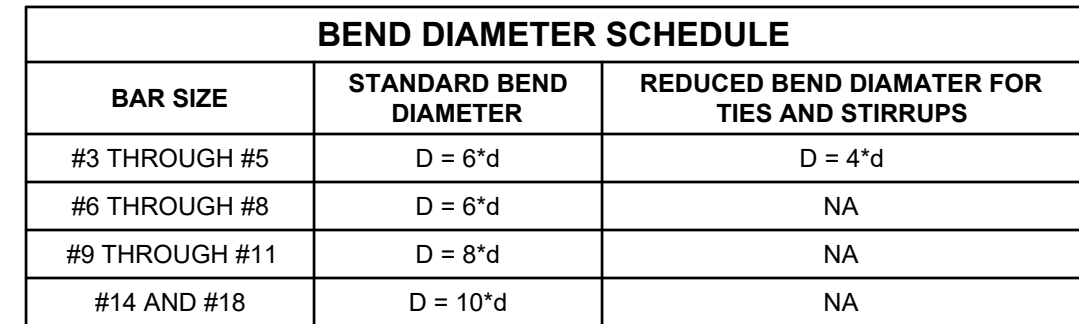
PIER SCHEDULE

MARK	SIZE	DETAIL	REINFORCING
P1	1'-6" x 2'-6"	S5.1-08	(6) #8 VERTICAL BARS w/ #4 TIES
P2	2'-6" x 2'-6"	S5.1-08	(8) #8 VERTICAL BARS w/ #4 TIES
P3	2'-0" x 3'-6"	S5.1-08	(12) #8 VERTICAL BARS w/ #4 TIES
P4	2'-0" x 3'-0"	S5.1-08	(16) #8 VERTICAL BARS w/ #4 TIES
P5*	2'-8" x 3'-0"	S5.1-08	(12) #8 VERTICAL BARS w/ #4 TIES

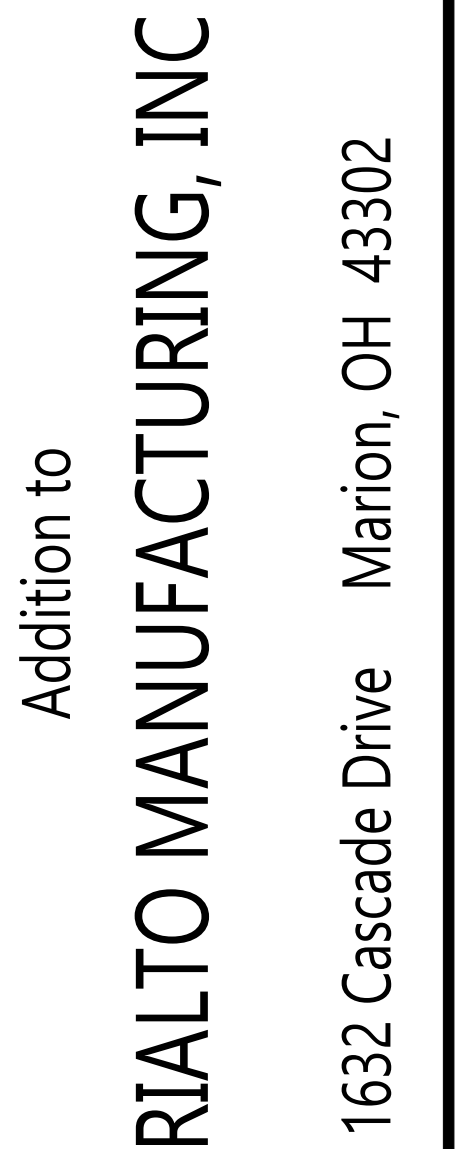
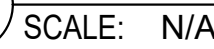
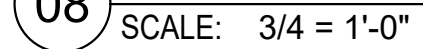
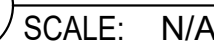
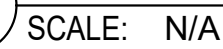
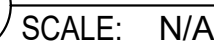
*FIELD VERIFY PER PLAN NOTES

LEGEND

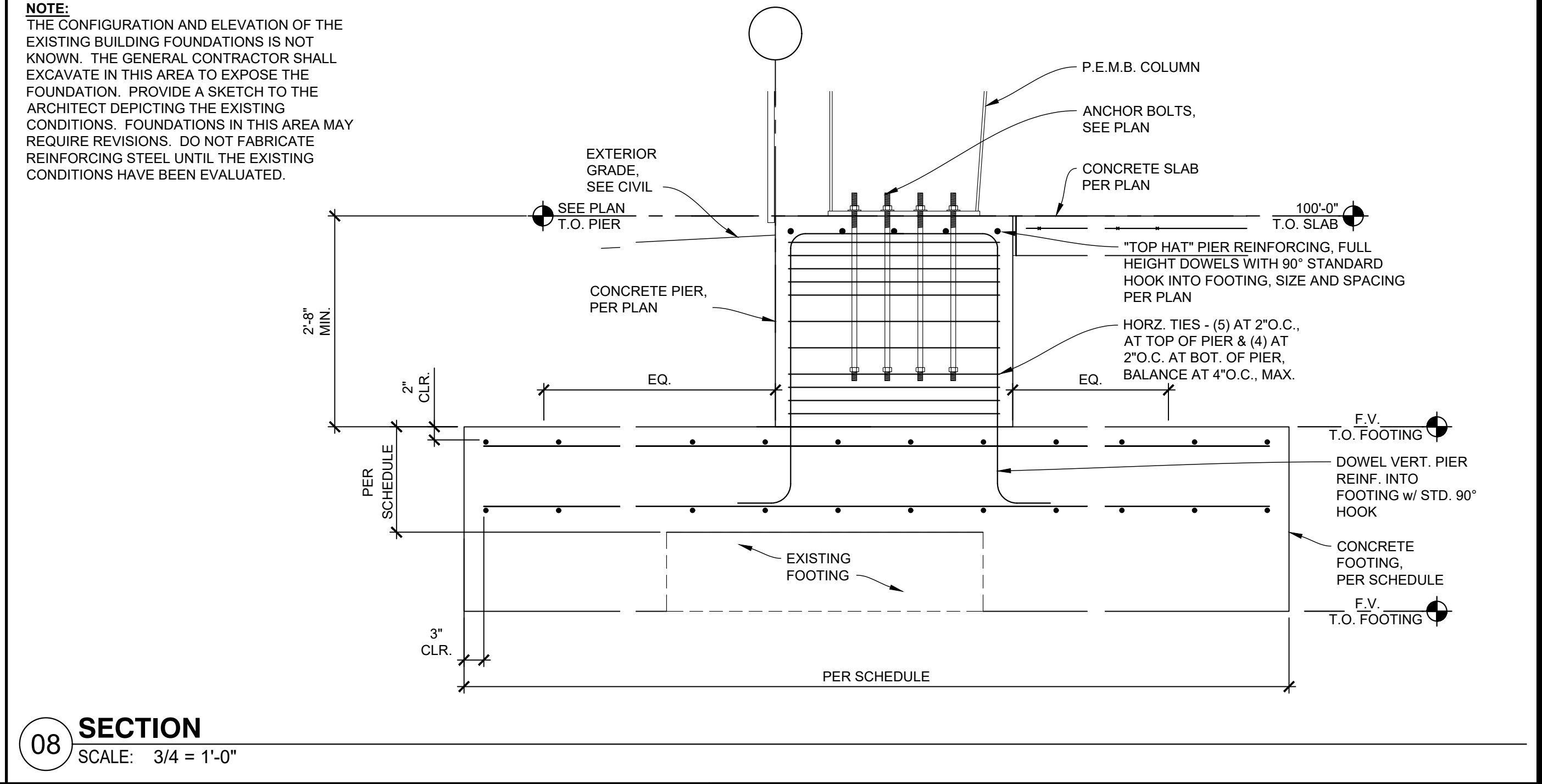
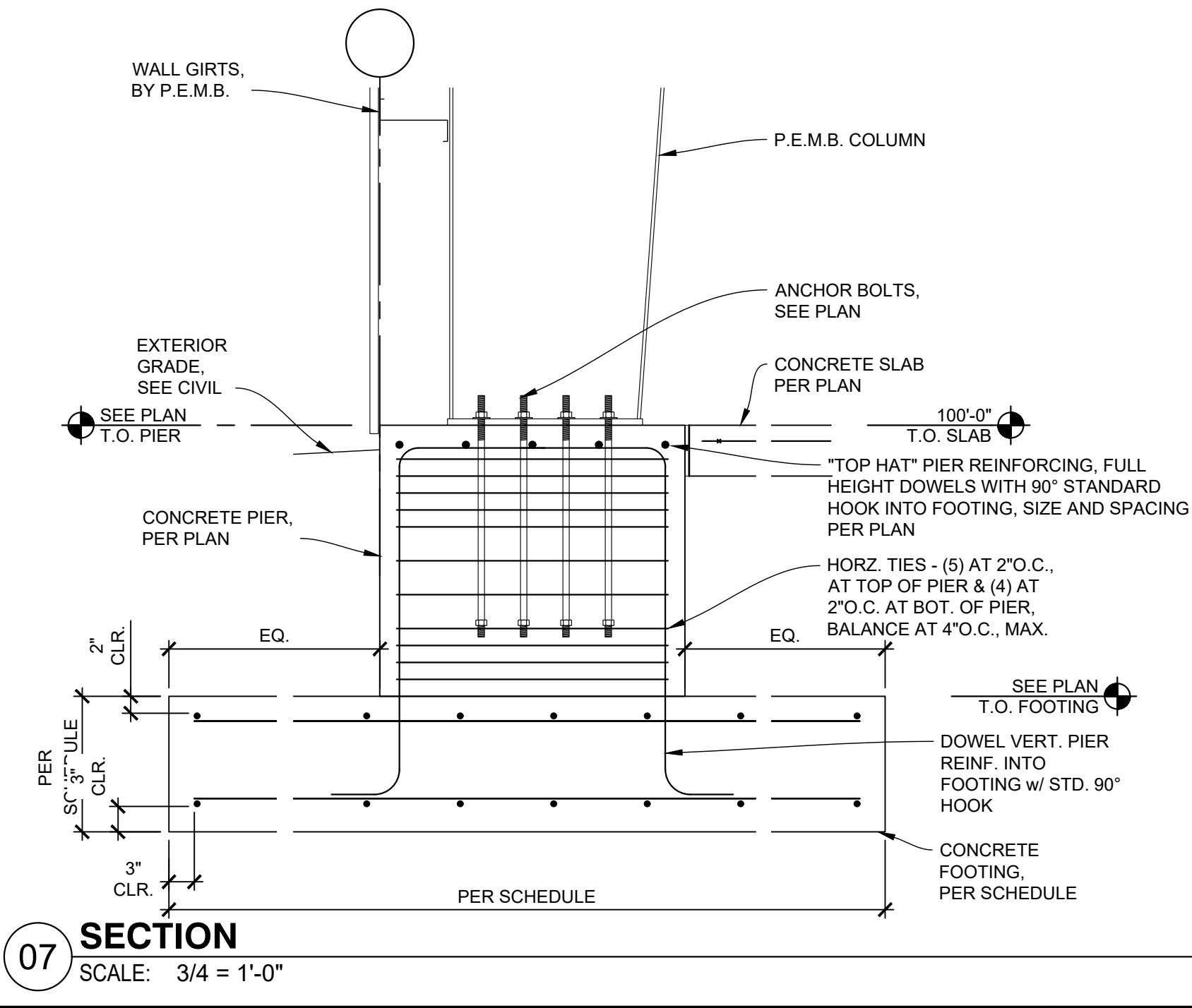
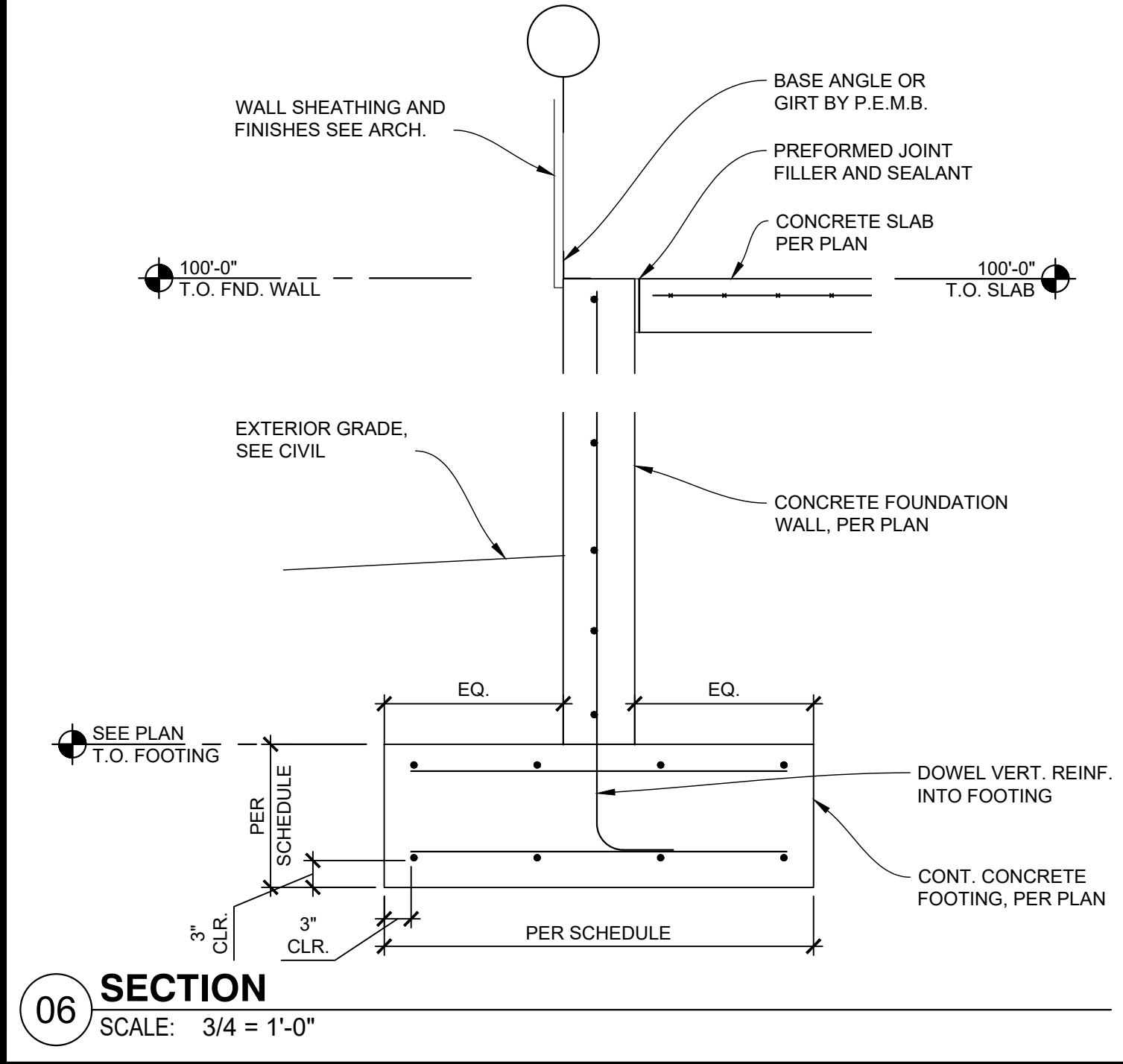
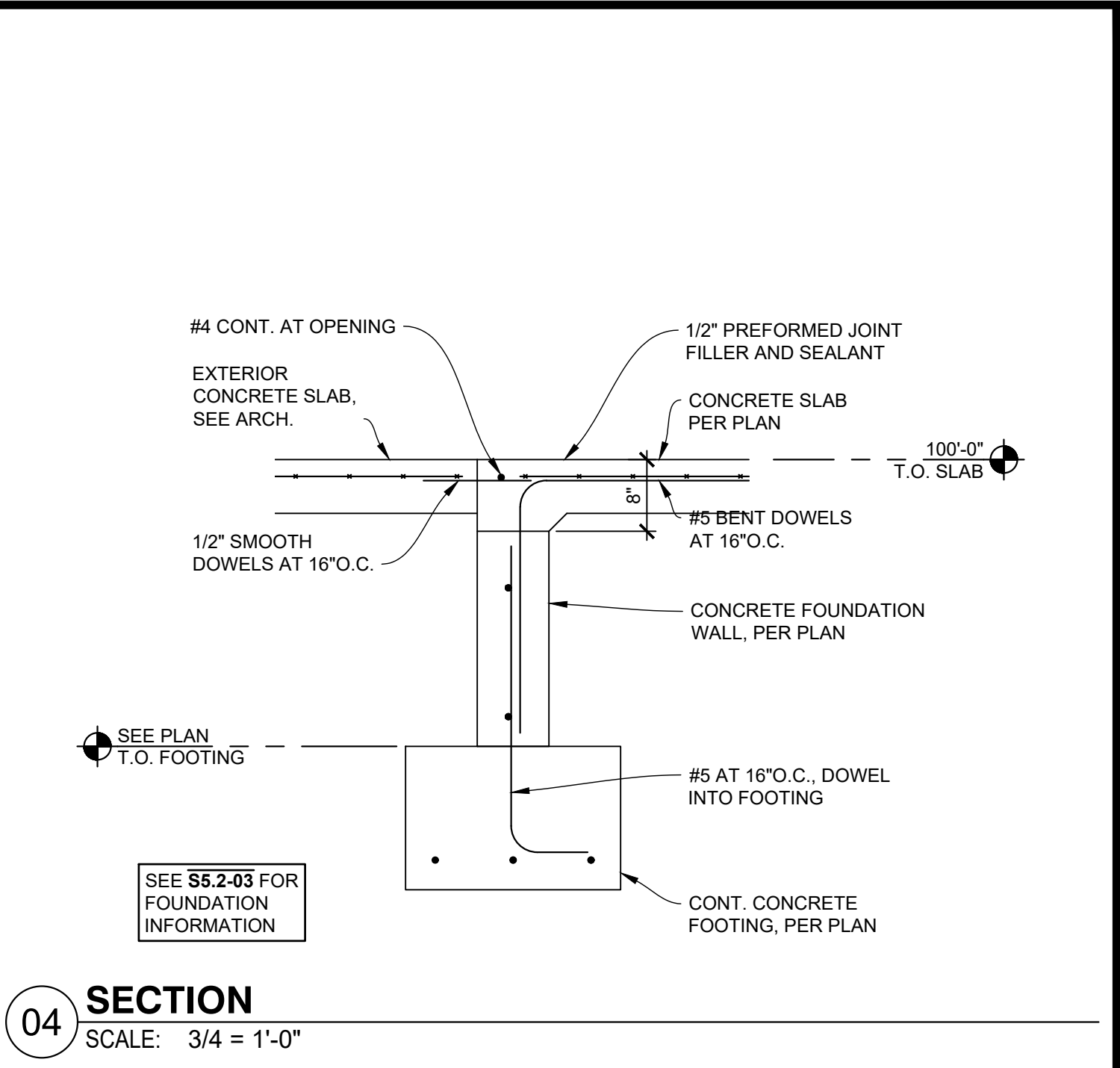
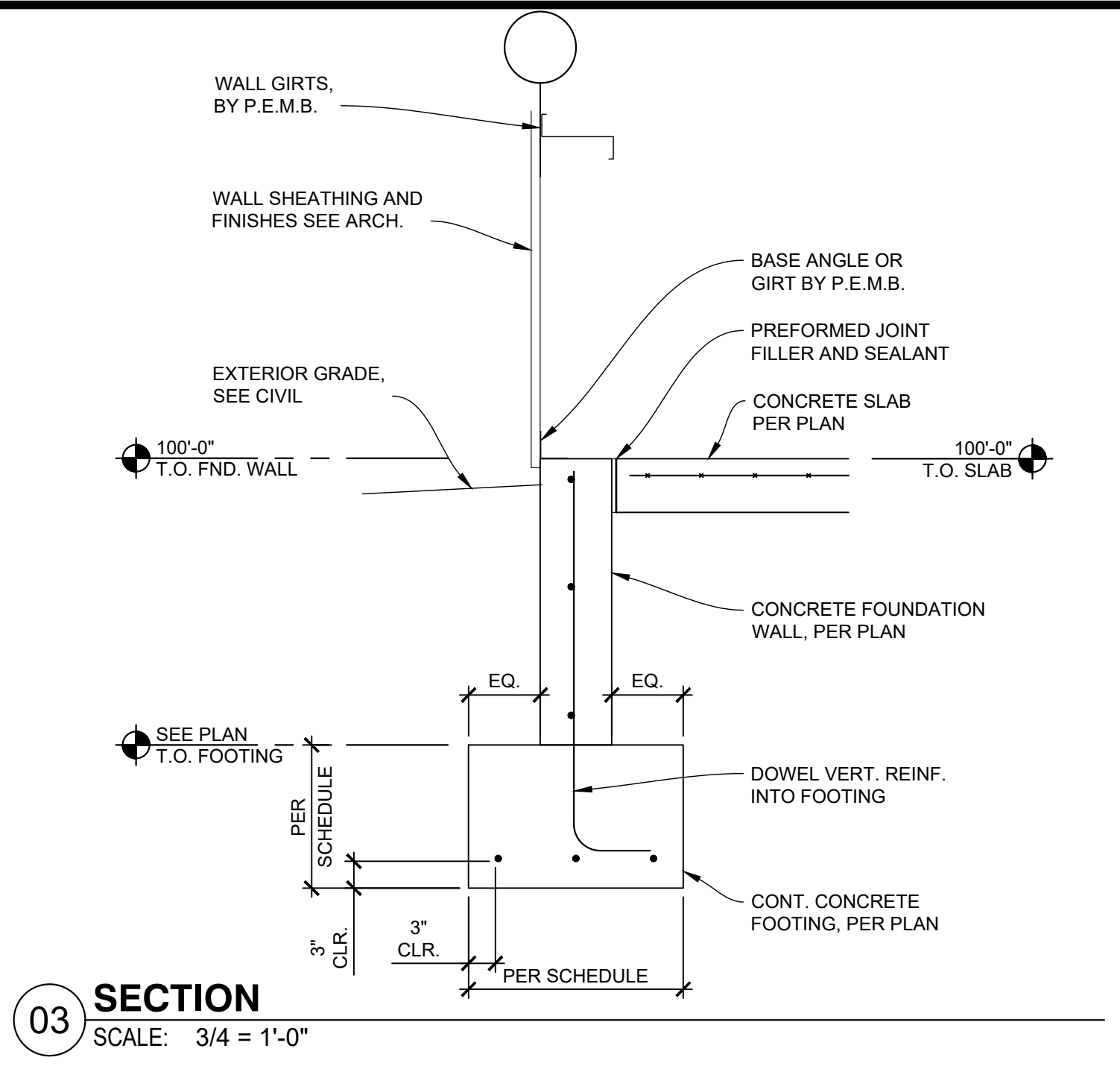
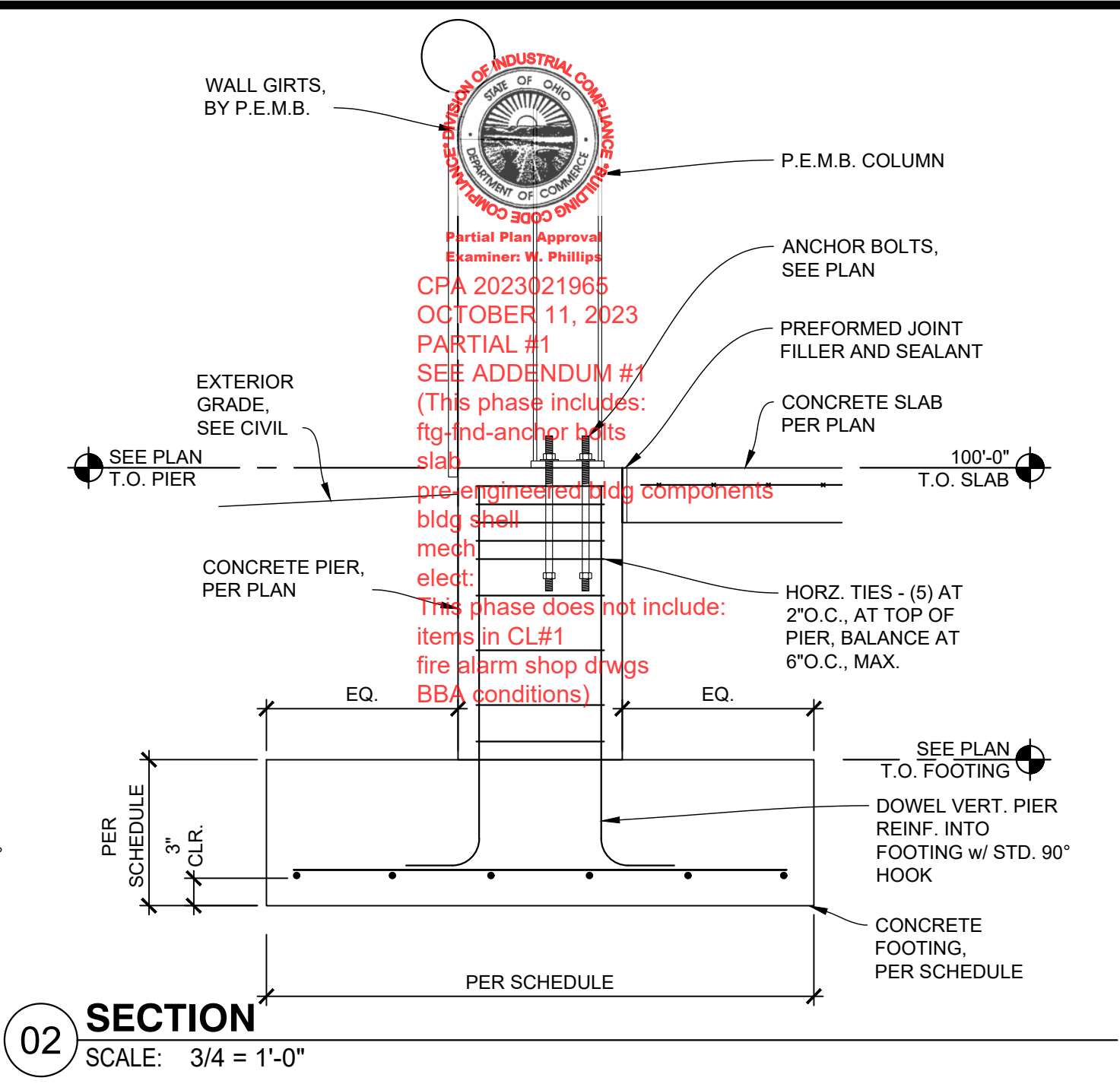
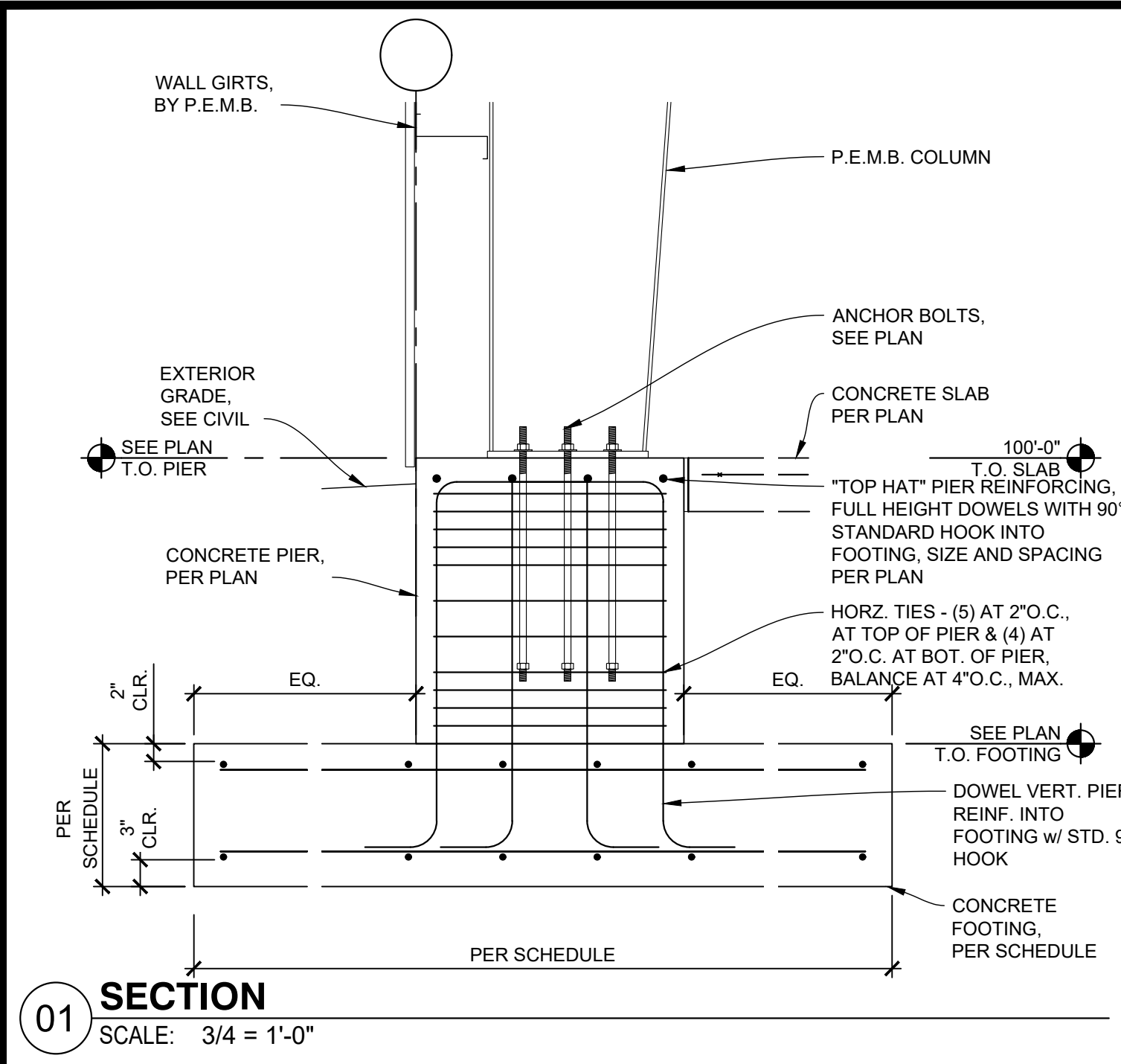




SCALE: N/A = 1'-0"



SHEET 5 OF 8



STATE OF OHIO

MATTHEW D. DERWACTER

E-68641

REGISTERED PROFESSIONAL ENGINEER

08-07-2023

OMNESS DESIGN, INC

140 FAIRFAX ROAD

MARION, OHIO 43302

CONSULTANTS

DERWACTER & ASSOCIATES, LLC

5276 Wilford Dr.

Zanesville, OH 43701

Addition to

RIALTO MANUFACTURING, INC

1632 Cascade Drive Marion, OH 43302

SHEET TITLE

FOUNDATION DETAILS

MARK	DATE	DESCRIPTION
SD	10/04/2023	SCHEMATIC DESIGN
DD		DESIGN DEVELOPMENT
CD		CONSTRUCTION DOCUMENTS

PROJECT NO: 22-113

CAD DWG FILE:

DRAWN BY: ACH

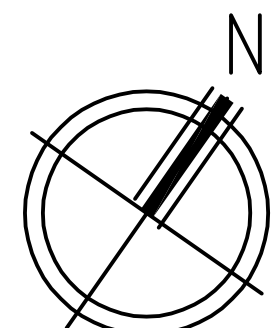
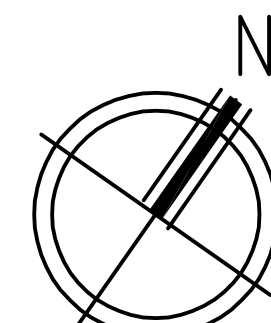
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S5.2

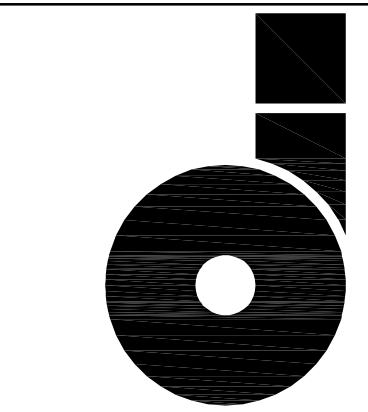
SHEET 6 OF 8



This phase does not include:


$$1/16'' = 1'-0''$$


NO SCALE



CONFIDENTIAL

Addition to:

1632 Cascade Drive

SHEET TITLE

PARTIAL HVAC
FLOOR PLAN[illegible]

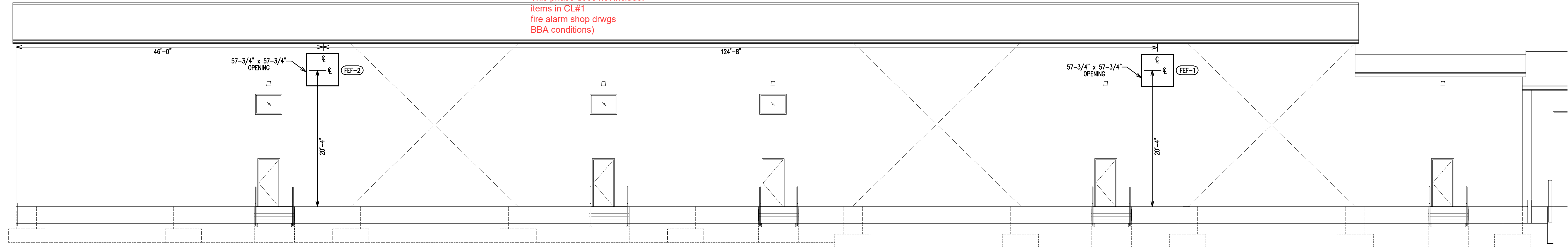
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SHEET 15 OF 26

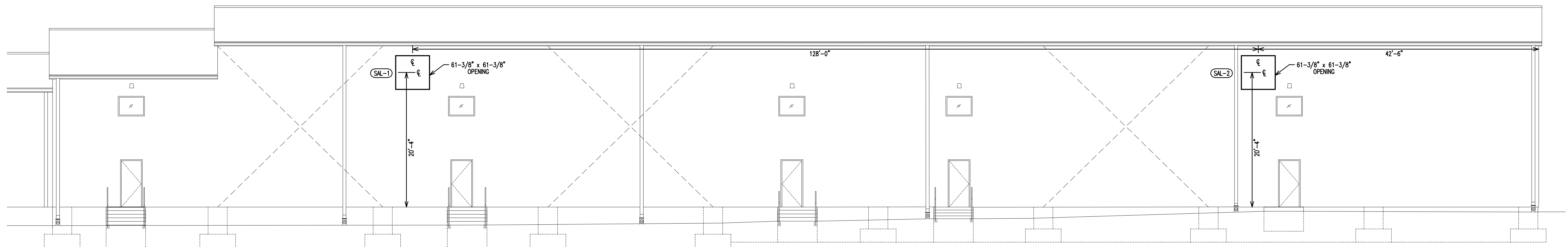
SHEET 17 OF 26



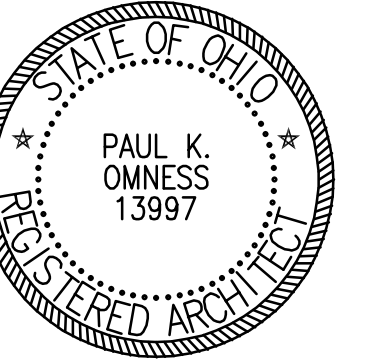
Partial Plan Approval
Examiner: W. Phillips
CPA 2023021965
OCTOBER 11, 2023
PARTIAL #1
SEE ADDENDUM #1
(This phase includes:
ftg-fnd-anchor bolts
slab
pre-engineered bldg components
bldg shell
mech
elect
This phase does not include:
items in CL#1
fire alarm shop drwgs
BBA conditions)



North Elevation — Exhaust Fans
1/8" = 1'-0"



South Elevation — Supply Air Louvers
1/8" = 1'-0"



OMNESS DESIGN
140 FAIRFAX
SUITE 300, TAINT
43302 MARION, OH

Addition to
Rialto Manufacturing, Inc.
1632 Cascade Drive Marion, OH 43302

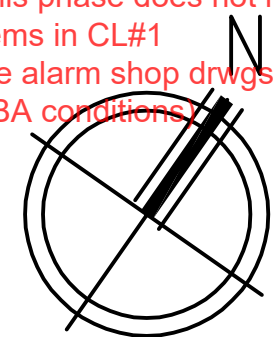
SHEET TITLE
HVAC
ELEVATIONS

MARK	DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
SI		SCHEMATIC DESIGN						
CD		CONSTRUCTION DOCUMENTS						
PROJECT	N022-113							
CAD DWG FILE	N022-113 Rialto							
DRAWN BY	PJD							
CHECKED BY	PJD							

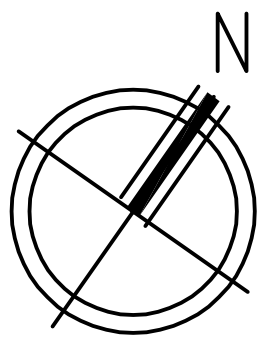
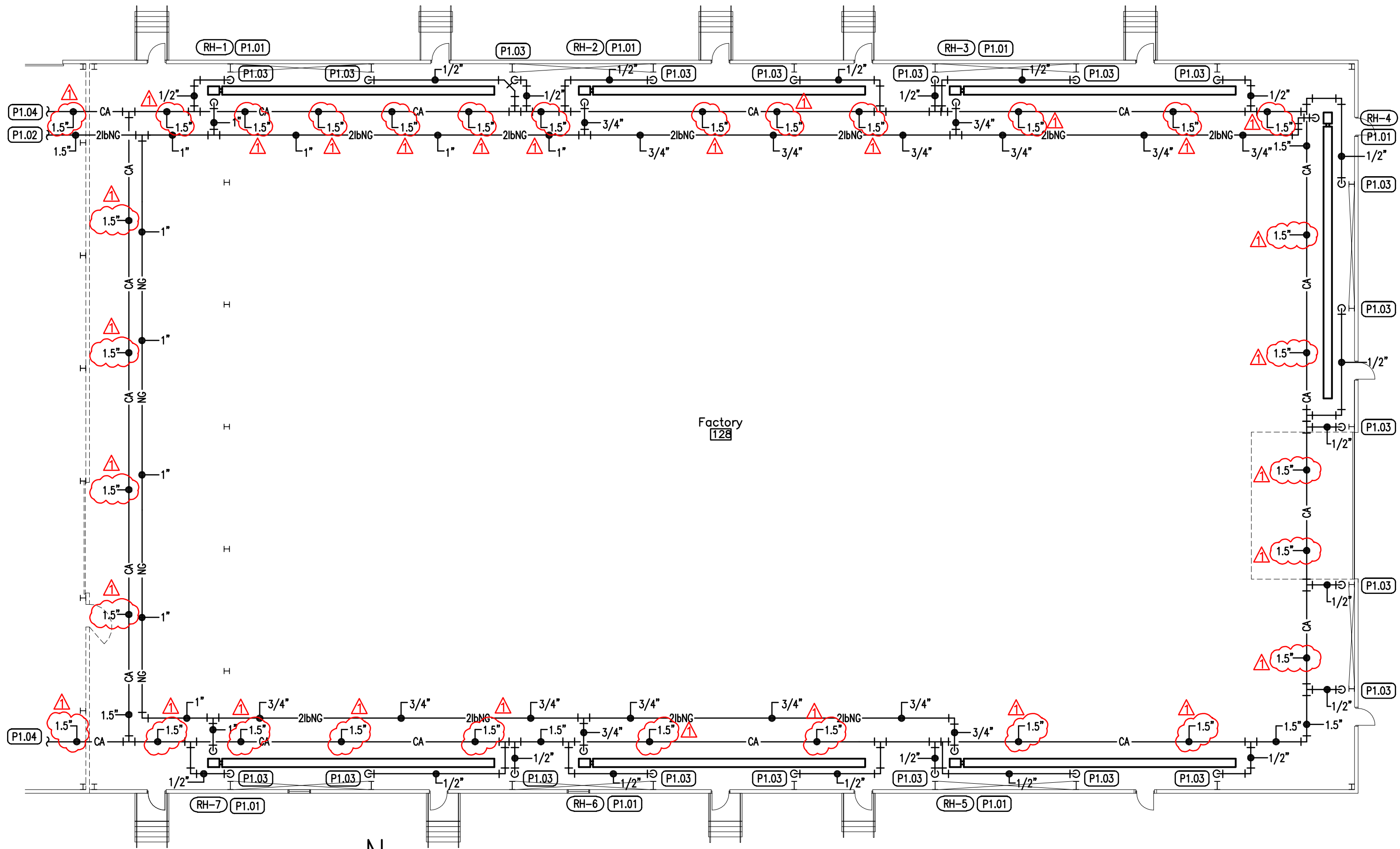
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NATURAL GAS NOTE:
PLUMBING CONTRACTOR SHALL RECONFIGURE OUTLET SIDE OF GAS METER PIPING TO PROVIDE A 1.5" DEDICATED 216 PIPE TO BE RUN FOR ALL NEW NG FIRED HVAC EQUIPMENT ASSOCIATED W/ THE NEW ADDITION. IN ADDITION TO THE DEDICATED 216 PIPE, THE PLUMBING CONTRACTOR SHALL RECONNECT EXISTING LOW PRESSURE PIPE ASSOCIATED W/ THE EXISTING NG CONDITIONS. PLUMBING CONTRACTOR SHALL COORDINATE W/ THE GAS COMPANY TO PROVIDE A NEW GAS METER CAPABLE OF PROVIDING ADEQUATE NG TO FEED THE EXISTING AND NEW CONDITIONS.

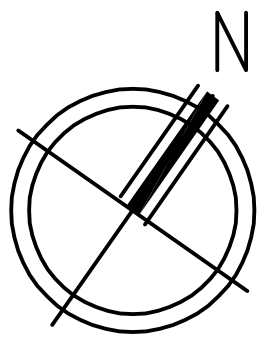
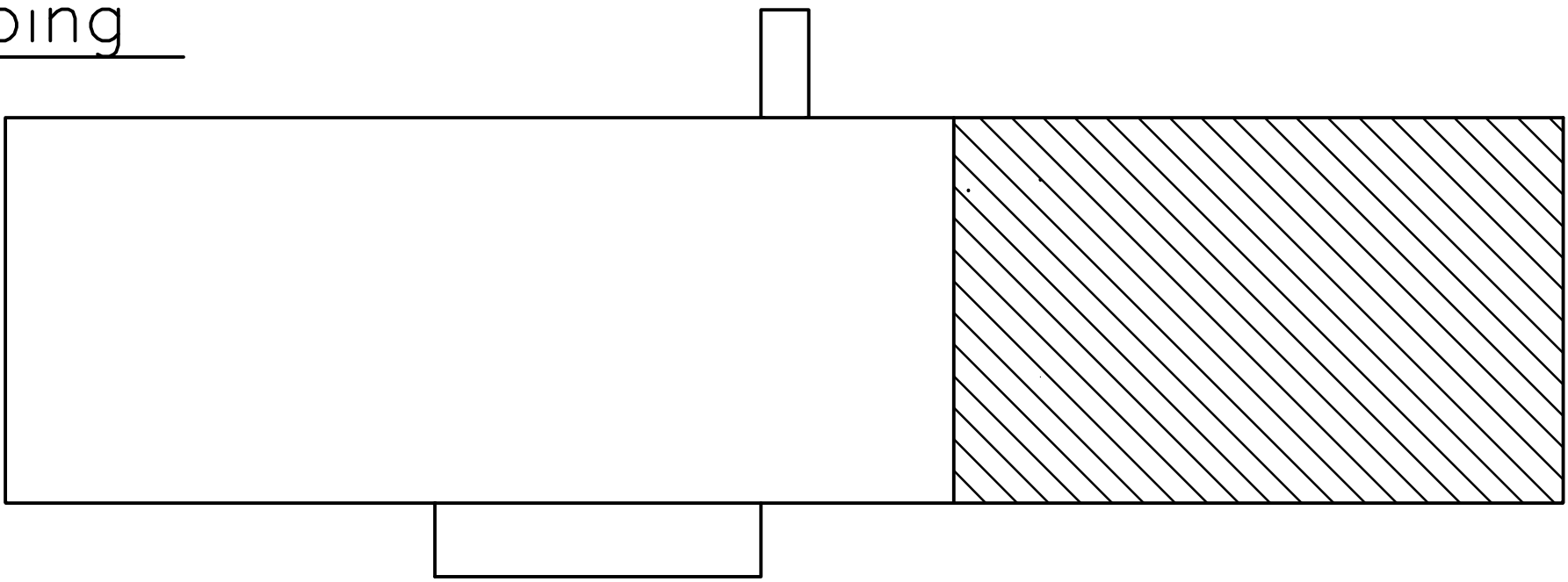
PA 4323021965
EXISTING GAS METER
PARTIAL #1
SEE ADDENDUM #1
(THIS phase includes:
fig-and-anchor bolts
slab
pre-engineered bldg components
bldg shell
mech
elect:
This phase does not include:
items in CL#1
fire alarm shop drags
BBA conditions)



Overall Floor Plan – Natural Gas
NO SCALE

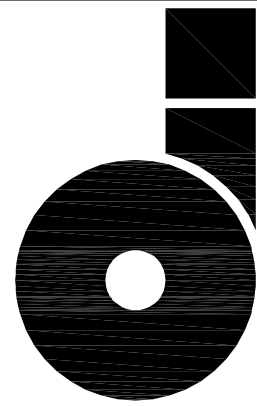
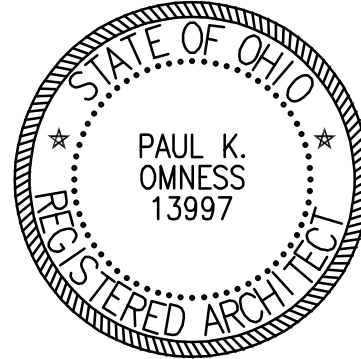


Partial Floor Plan – Plumbing
1/16" = 1'-0"



Key Plan
NO SCALE

NATURAL GAS CODED NOTES
(P1.01) 3/4" 216 NATURAL GAS FROM CEILING SPACE DOWN TO RADIANT HEATER W/ GAS COCK, UNION, 6" DRIP LEG & REGULATOR AS REQUIRED.
(P1.02) SEE OVERALL FLOOR PLAN – NATURAL GAS FOR CONTINUATION OF 1.5" 216 NATURAL GAS LINE.
(P1.03) 1/2" COMPRESSED AIR DROP W/ QUICK CONNECT FITTING AS REQUIRED.
(P1.04) MAKE 1.5" COMPRESSED AIR CONNECTION TO EXISTING LINE AS REQUIRED.
(P1.05) 1.5" 216 NATURAL GAS DOWN ON WALL AND MAKE CONNECTION AT EXISTING NATURAL GAS METER. SEE NATURAL GAS NOTE FOR MORE INFORMATION.



OMNESS DESIGN
140 FAIRFAX
MARION, OH 43021
419.333.3300

Addition to
Rialto Manufacturing, Inc.
1632 Cascade Drive Marion, OH 43302

SHEET TITLE
PARTIAL PLBG.
FLOOR PLAN

MARK	DATE	DESCRIPTION
1	2-21-23	REVISIONS
2	2-21-23	REVISED CA LOOP
3		SIZE PER OWNER
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PROJECT NR22-128
CAD DWG FILE NR22-128 Rialto Phase
DRAWN BY: P
CHECKED BY: P



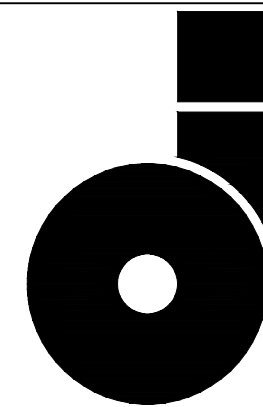
P 10

[illegible]

DEMOLITION NOTES	
1	EXISTING WALL TO BE REMOVED BY OTHERS. EC TO REMOVE ALL AFFECTED ELECTRICAL ITEMS AND ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. EC TO RECONNECT ANY REMAINING ACTIVE ELECTRICAL ITEMS WHOSE POWER WAS DISCONNECTED DUE TO ABOVE DEMOLITION.
2	DISCONNECT AND REMOVE EXISTING WALL PACK. REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. EC TO RECONNECT ANY REMAINING ACTIVE ELECTRICAL ITEMS WHOSE POWER WAS DISCONNECTED DUE TO ABOVE DEMOLITION.
3	EXISTING OVERHEAD DOOR TO BE REMOVED BY OTHERS. EC TO REMOVE ALL AFFECTED ELECTRICAL ITEMS AND ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. EC TO RECONNECT ANY REMAINING ACTIVE ELECTRICAL ITEMS WHOSE POWER WAS DISCONNECTED DUE TO ABOVE DEMOLITION.

DEMOLITION GENERAL NOTES

- A. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING ELECTRICAL ITEMS AS REQUIRED PRIOR TO CONSTRUCTION.
- B. ELECTRICAL CONTRACTOR TO COORDINATE ALL PHASING WITH GC PRIOR TO DEMOLITION. MAINTAIN ALL EXISTING ELECTRICAL, TELEPHONE, TELEVISION, FIRE ALARM, ETC. UNTIL THE NEW SERVICE SERVICE IS COMPLETELY INSTALLED OR RELOCATED.
- C. RECONNECT ANY REMAINING ACTIVE ELECTRICAL ITEMS WHOSE POWER WAS DISCONNECTED DUE TO DEMOLITION WORK.
- D. REMOVE ALL NON-ACTIVE EXPOSED CABLES.
- E. PROVIDE BLANK COVERPLATES OVER ALL UNUSED BOXES.
- F. PATCH ALL OPENINGS LEFT BY REMOVAL OF ELECTRICAL ITEMS TO MATCH EXISTING CONDITIONS AS DIRECTED BY ARCHITECT UNLESS OTHERWISE NOTED.
- G. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. BRING ANY DISCREPANCIES TO ARCHITECT/ENGINEER PRIOR TO CONSTRUCTION.
- H. SCOPE OF WORK ONLY INCLUDES THE AREAS AND ITEMS OF WORK AS SHOWN. IT SPECIFICALLY EXCLUDES ANY CODE VIOLATIONS OUTSIDE THE SCOPE OF WORK. ELECTRICAL CONTRACTOR SHALL BRING ANY CODE VIOLATIONS OR SERIOUS HAZARDOUS CONDITIONS, WHICH ARE FOUND, TO THE ATTENTION OF THE OWNER & ENGINEER SO THAT CORRECTIVE ACTION CAN BE TAKEN.



Addition to
Rialto Manufacturing, Inc.

Marion, OH 43302

1632 Cascade Drive

SHEET TITLE

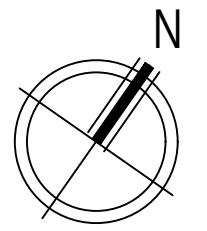
Overall Floor Plan

[illegible]

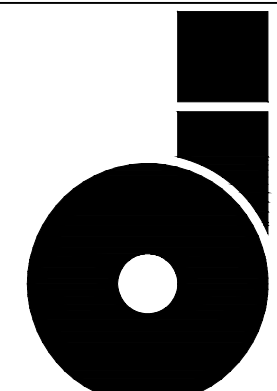
PROJECT NO:	22-113
CAD DWG FILE:	22-113 Rialto
DRAWN BY:	PO
CHECKED BY:	PO

E 1.0

SHEET 20 OF 26



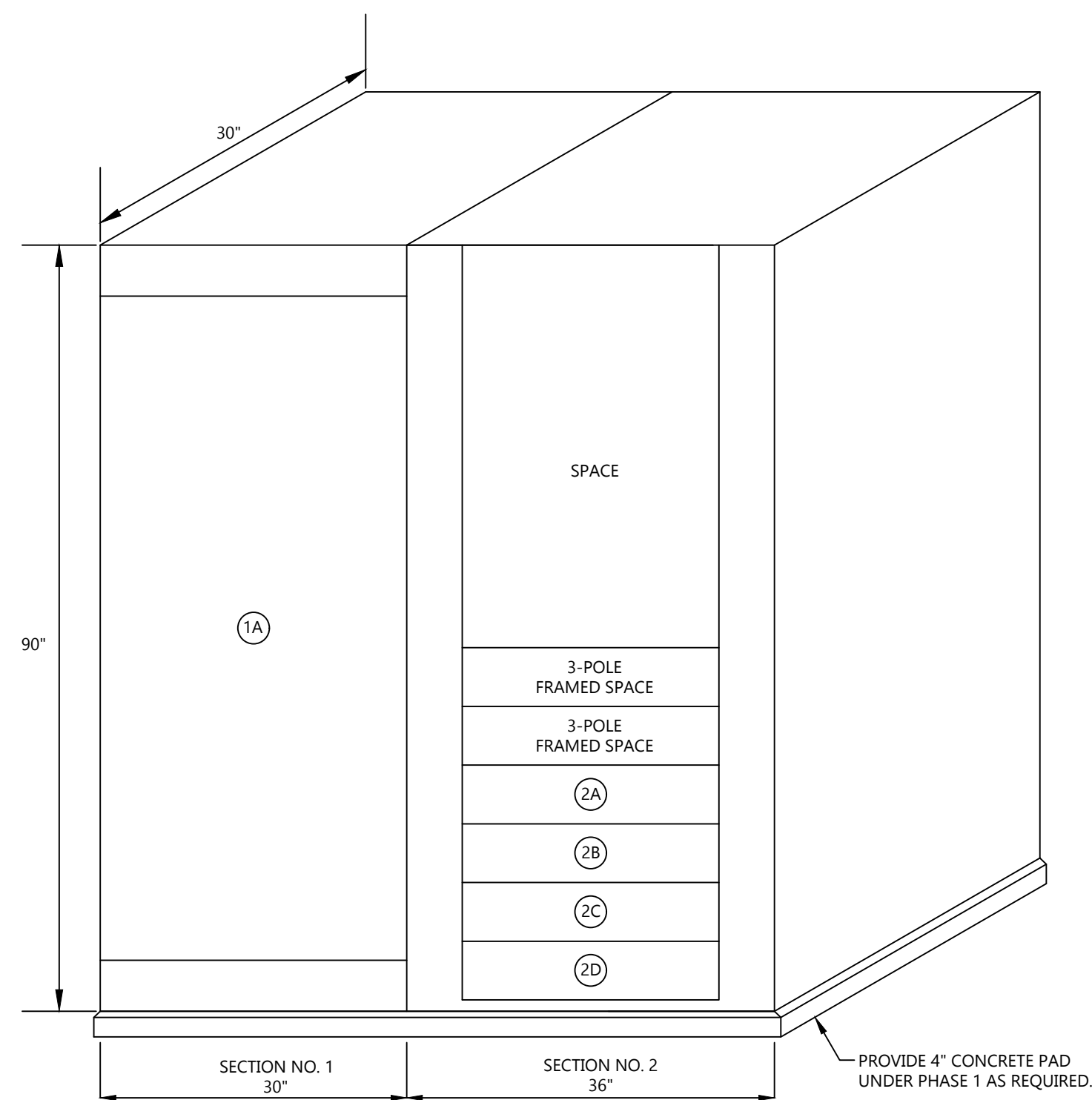
1. ALL ELECTRIC WORK SHALL BE IN STRICT ACCORDANCE WITH CURRENT NEC, NFPA, ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AND LOCAL AUTHORITY HAVING JURISDICTION.	10. ALL WIRING TO BE A MINIMUM OF #12 AWG COPPER CONDUCTOR FOR POWER AND LIGHTING CIRCUITS UNLESS NOTED OTHERWISE. ALL WIRING TO BE COPPER TYPE THHN, XHHW, OR THWN, 600-V (75° C). ALUMINUM CONDUCTORS MAY BE USED FOR FEEDERS #1 SIZE AND LARGER.	18. EC SHALL SEAL AROUND ALL ELECTRICAL PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS.
2. CONCEAL ALL WIRING TO THE GREATEST EXTENT POSSIBLE.	11. MINIMUM 14 AWG CONDUCTOR FOR CONTROL CIRCUITS.	19. CONNECT ALL BATTERY-POWER EXIT AND EMERGENCY LIGHTS AHEAD OF SWITCH ON LIGHTING CIRCUIT IN AREA LOCATED.
3. FOR PURPOSES OF CLARITY AND LEGIBILITY, DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZE AND LOCATION OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL VERIFY THIS INFORMATION AT THE BUILDING SITE.	12. MINIMUM 10 AWG FOR HOME RUN CONDUCTORS AND 20 AMP 120-V BRANCH CIRCUITS LONGER THAN 100 FEET.	20. EC TO PROVIDE 1/2EMT CONDUIT FOR ALL OVERHEAD DOOR'S LOW VOLTAGE DEVICES AS DIRECTED BY OVERHEAD DOOR SUPPLIER. EC TO PROVIDE 1/2EMT EACH OVERHEAD DOOR LOW VOLTAGE DEVICE TO 10'-0" AFF AS DIRECTED BY OVERHEAD DOOR SUPPLIER. TERMINATE EACH END WITH PLASTIC BUSHINGS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS, ROUGH-IN/FINAL INSPECTION, ETC.	13. PULL ALL CONDUCTORS INTO RACEWAY AT SAME TIME.	21. ALL FIRE ALARM SYSTEM WORK AND DESIGN, IF REQUIRED, TO BE DONE BY OWNER'S FIRE ALARM SYSTEM CONTRACTOR.
5. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, OF THE BEST GRADE, AND INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.	14. IDENTIFICATION TAGGING IS REQUIRED ON ALL PANELBOARD, JUNCTION BOXES, RELAYS, DISCONNECT SWITCHES, STARTERS, CONTROL PANELS, PUSHBUTTONS, AND MISC. ELECTRICAL DEVICES INSTALLED BY CONTRACTOR. USE ENGRAVED LAMACOID LABEL, 1" WIDE BY 2" LONG MINIMUM. BLACK WITH WHITE LETTERS, MINIMUM 3/4" HIGH.	22. ALL TELEPHONE/DATA/CATV SYSTEM WORK AND DESIGN TO BE DONE BY OWNER'S TECHNOLOGY SYSTEM CONTRACTOR.
6. WORKMANSHIP AND MATERIALS TO BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE.	15. CONTRACTOR SHALL COORDINATE THE PROPER INSTALLATION OF ALL POWER WIRING AND TEMPERATURE CONTROL WIRING (INCLUDING INTERLOCKS AND STARTERS) WITH PROPER SUBCONTRACTORS AS REQUIRED FOR A COMPLETE WORKING SYSTEM.	23. ALL SECURITY, CCTV, & ACCESS CONTROL SYSTEM WORK AND DESIGN TO BE DONE BY OWNER'S SECURITY SYSTEM CONTRACTOR.
7. ALL CONDUITS TO CONTAIN A GROUND WIRE SIZED PER TABLE 250-122.	16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING A PROPERLY-RATED LOCAL DISCONNECT SWITCH ON ALL ITEMS OF ELECTRICAL EQUIPMENT WHICH DO NOT HAVE AN INTEGRAL LOCAL DISCONNECTING MEANS, WHETHER OR NOT SPECIFICALLY SHOWN ON THE DRAWINGS. WHERE REQUIRED BY N.E.C. LOCAL DISCONNECT SHALL BE FUSIBLE OR HACR-RATED.	24. ALL PUBLIC ADDRESS SYSTEM WORK AND DESIGN TO BE DONE BY OWNER'S PUBLIC ADDRESS SYSTEM CONTRACTOR.
8. MINIMUM CONDUIT SIZE SHALL BE 3/4" FOR EMT OR PVC U.N.O. ALL WIRING SHALL BE INSTALLED IN POLYVINYL CHLORIDE (PVC) OR ELECTRIC METALLIC TUBING (EMT) CONDUIT. MC CABLE MAY BE USED FOR BRANCH CIRCUIT WIRING WHERE CONCEALED IN ACCORDANCE WITH NEC, BUT ALL HOMERUNS SHALL BE IN CONDUIT.	17. PANEL AND ELECTRICAL EQUIPMENT LOCATIONS SHALL BE COORDINATED WITH ALL CONTRACTORS PRIOR TO INSTALLATION TO INSURE THE INSTALLATION IS IN STRICT ACCORDANCE WITH ALL WORKING SPACE & DEDICATED ELECTRICAL SPACE REQUIREMENTS PER N.E.C. ART. 110.	25. SCOPE OF WORK ONLY INCLUDES THE AREAS AND ITEMS OF WORK AS SHOWN. IT SPECIFICALLY EXCLUDES ANY CODE VIOLATIONS OUTSIDE THE SCOPE OF WORK. ELECTRICAL CONTRACTOR SHALL BRING ANY CODE VIOLATIONS OR SERIOUS HAZARDOUS CONDITIONS, WHICH ARE FOUND, TO THE ATTENTION OF THE OWNER & ENGINEER SO THAT CORRECTIVE ACTION CAN BE TAKEN.
9. EXTEND RACEWAYS PARALLEL AND PERPENDICULAR TO STRUCTURAL MEMBERS AND SURFACE CONTOURS AS MUCH AS IS PRACTICAL.		



Addition to
Rialto Manufacturing, Inc.
1632 Cascade Drive Marion, OH 43302

Power Partial Floor Plan

[illegible]SHEET 22 OF 26



N.T.S.

Panel Schedule

DATE:

PANEL: NEW PANEL "LC"

TYPE: NEMA 1

MOUNTING: SURFACE

FEATURES: ☒ GROUND BUS

☒ SOLID NEUTRAL

☒ MAIN CIRCUIT BREAKER

SERVICE: 150 AMPS

120/208 VOLTS

3 PHASE

4 WIRE

60 HZ

22,000 A.I.C.

LOAD	WIRE SIZE	CB/P	CIRC. NO.	A	B	C	CIRC. NO.	CB/P	WIRE SIZE	LOAD
- SPARE	10	20/1	1	●	●	●	2	20/1	-	SPARE
- SPARE	10	20/1	3	●	●	●	4	20/1	-	SPARE
- SPARE	12	20/1	5	●	●	●	6	20/1	-	SPARE
- SPARE	12	20/1	7	●	●	●	8	20/1	-	SPARE
- SPARE	12	20/1	9	●	●	●	10	20/1	-	SPARE
- SPARE	12	20/1	11	●	●	●	12	20/1	-	SPARE
- SPARE	-	20/1	13	●	●	●	14	20/1	-	SPARE
- SPARE	-	20/1	15	●	●	●	16	20/1	-	SPARE
- SPARE	-	20/1	17	●	●	●	18	20/1	-	SPARE
- SPARE	-	20/1	19	●	●	●	20	20/1	-	SPARE
- SPARE	-	20/1	21	●	●	●	22	20/1	-	SPARE
- SPARE	-	20/1	23	●	●	●	24	20/1	-	SPARE
- SPARE	-	20/1	25	●	●	●	26	20/1	-	SPARE
- SPARE	-	20/1	27	●	●	●	28	20/1	-	SPARE
- SPARE	-	20/1	29	●	●	●	30	30/1	-	SPARE
- SPARE	-	20/1	31	●	●	●	32	20/1	-	SPARE
- SPARE	-	20/1	33	●	●	●	34	20/1	-	SPARE
- SPARE	-	20/1	35	●	●	●	36	20/1	-	SPARE
- SPARE	-	20/1	37	●	●	●	38	20/1	-	SPARE
- SPARE	-	20/1	39	●	●	●	40	20/1	-	SPARE
- SPARE	-	20/1	41	●	●	●	42	20/1	-	SPARE

LOADS: A = 3,924W

B = 1,764W

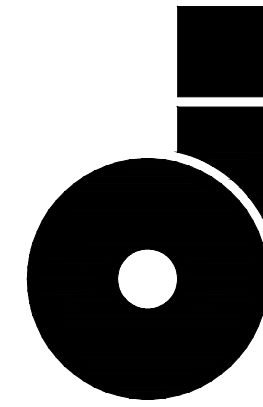
C = 2,124W

TOTAL LOAD: 3 PH XA = 11,772W

= 33 AMPS @ 120/208 VOLTS, 3PH, 4W

NOTES:

1.



OMNESS DESIGN, INC.
140 FAIRFAX ROAD
MARION, OHIO 43302
CONSULTANTS

Addition to
Rialto Manufacturing, Inc.
1632 Cascade Drive Marion, OH 43302

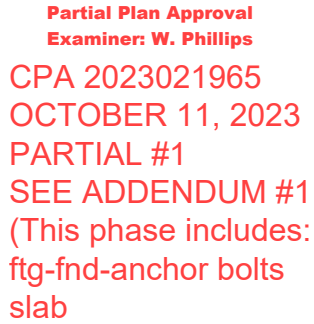
SHEET TITLE

Panelboard Sched. New Single Line Diagram

[illegible]

E 3.2

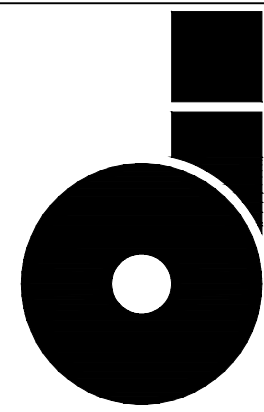
SHEET 25 OF 26



pre-engineered bldg components	
bldg shell	
mech	
elect:	

- CTIONS TO BIDDERS OF
OF THE WORK ARE
items in CL#1

OUTLET ELEVATION	
LIGHTING SWITCHES	4'-0" ABOVE FINISHED FLOOR TO CENTERLINE
RECEPTACLE OUTLETS IN OFFICES AND FINISHED AREAS	2'-0" ABOVE FLOOR TO CENTERLINE. COORDINATE MOUNTED HEIGHTS WITH OWNER PRIOR TO ROUGH-IN.
LIGHTING PANELBOARDS	6'-8" FROM TOP OF PANEL TO ABOVE FINISHED FLOOR.
FIRE ALARM PULL STATION	4'-0" ABOVE FINISHED FLOOR TO CENTERLINE
FIRE ALARM HORN/STROBE OR STROBE ONLY DEVICES	6'-8" ABOVE FINISHED FLOOR OR 6" BELOW FINISHED CEILING TO CENTERLINE.
EMERGENCY LIGHT OUTLETS	8'-0" ABOVE FINISHED FLOOR TO CENTERLINE
EXIT LIGHT OUTLETS	0'-8" BELOW FINISHED CEILING TO CENTERLINE
BRACKET AND SPECIAL OUTLETS	AS INDICATED ON DRAWINGS



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140 FAIRFAX ROAD
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Addition to
Rialto Manufacturing, Inc.

1632 Cascade Drive
Marion, OH 43302

SHEET TITLE

Electrical Specification

[illegible]

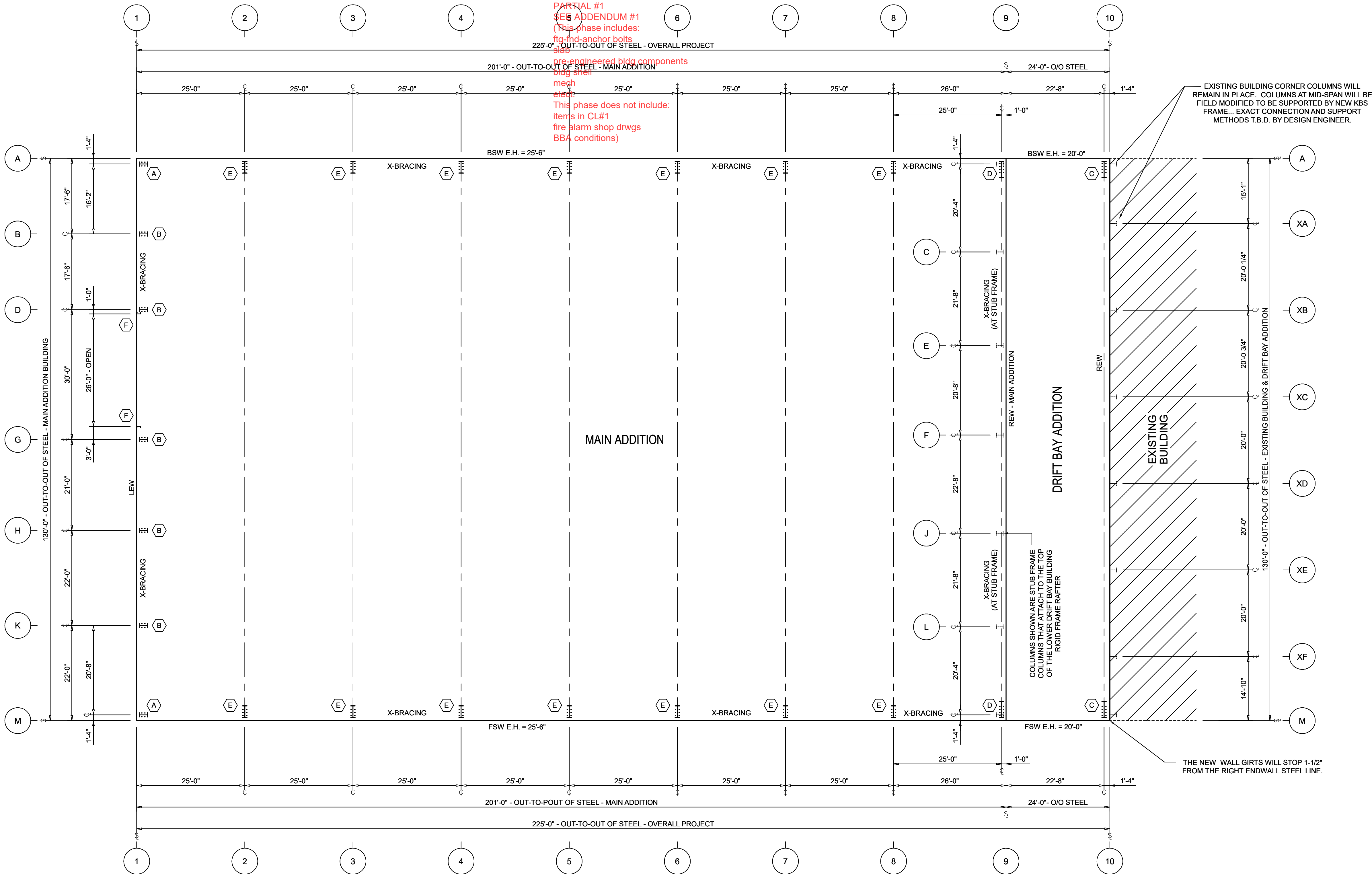
PROJECT NO:	22-113
CAD DWG FILE:	22-113 Rialto
DRAWN BY:	PO
CHECKED BY:	PO

E 3.3



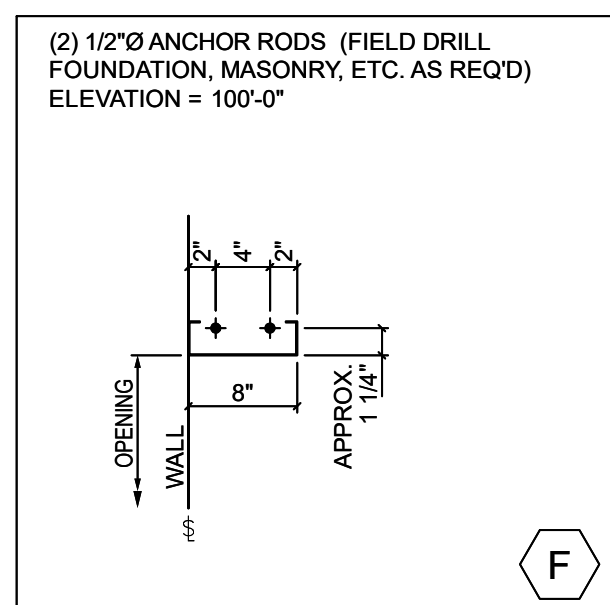
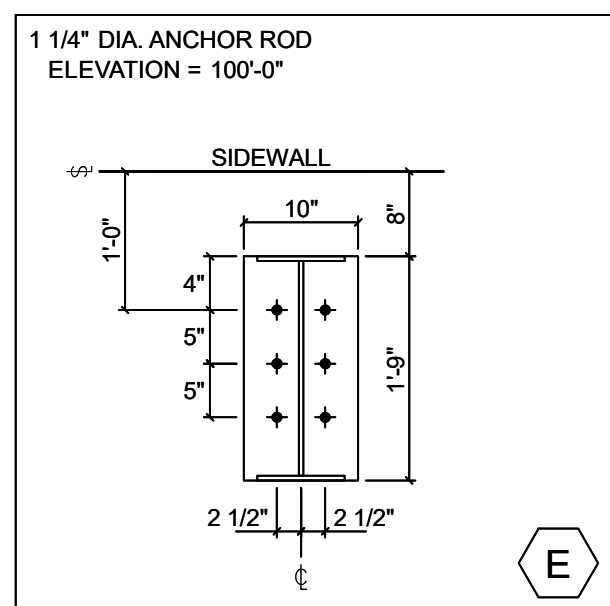
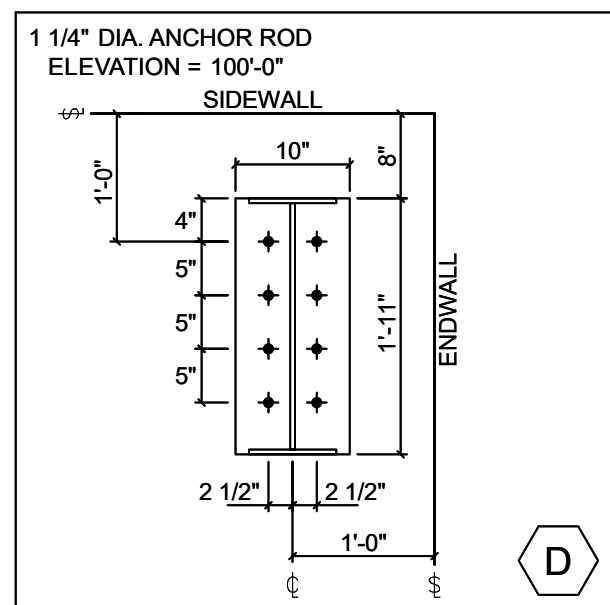
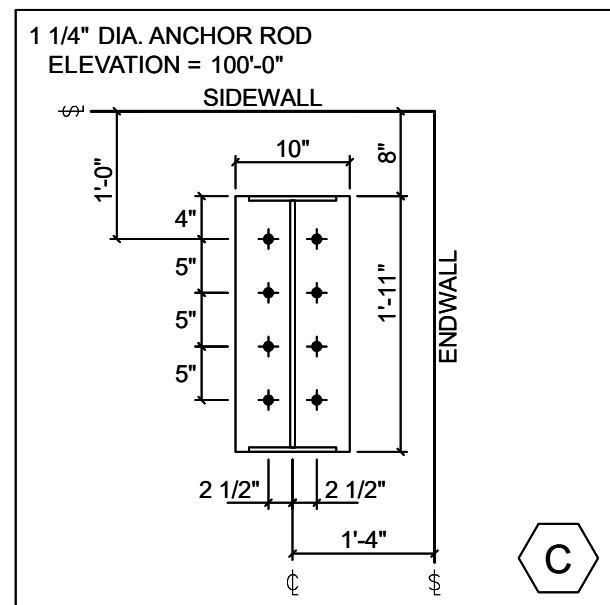
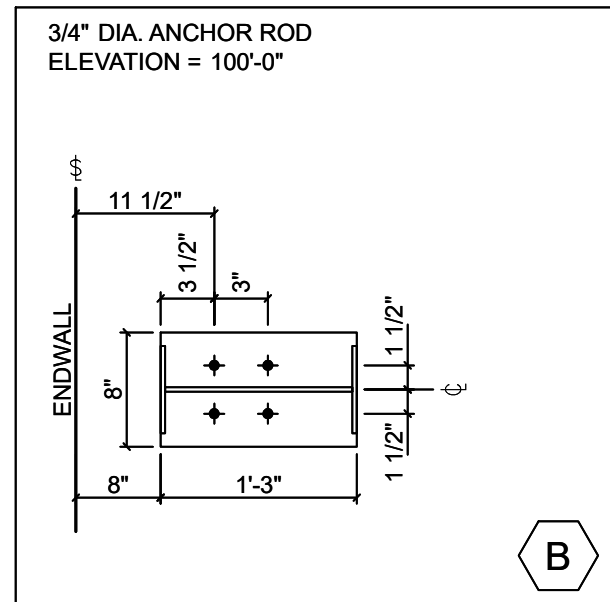
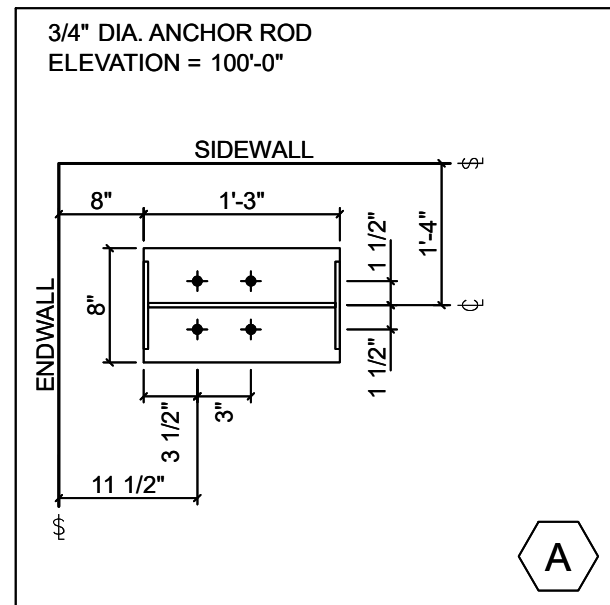
CPA 2023021965
OCTOBER 11, 2023
PARTIAL #1
SEE ADDENDUM #1

This phase includes:
1. find anchor bolts
2. pre-engineered bldg components
3. bldg steel
4. megh
5. cleat
6. This phase does not include:
7. items in CL#1
8. fire alarm shop drwgs
9. BBA (conditions)



ANCHOR ROD PLAN
NOTE: ALL BASE PLATES @ 100'-0" (U.N.)
FINISHED FLOOR @ 100'-0"

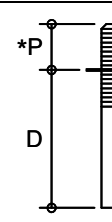
FINAL BASE PLATE LENGTHS MAY DIFFER +/- 2" FROM LENGTH SHOWN ON DETAILS. ANCHOR ROD LOCATIONS WILL REMAIN CONSISTENT U.N.O.



ANCHOR ROD PLAN GENERAL NOTES:
AN1: THE SPECIFIED ANCHOR ROD DIAMETER ASSUMES F1554 GRADE 36 UNLESS NOTED OTHERWISE. ANCHOR ROD MATERIAL OF EQUAL DIAMETER MEETING OR EXCEEDING THE STRENGTH REQUIREMENTS SET FORTH ON THESE DRAWINGS MAY BE UTILIZED AT THE DISCRETION OF THE FOUNDATION DESIGN ENGINEER. ANCHOR ROD EMBEDMENT LENGTH SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER.
AN2: METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR PROJECT FOUNDATION DESIGN. THE FOUNDATION DESIGN IS THE RESPONSIBILITY OF A REGISTERED PROFESSIONAL ENGINEER, FAMILIAR WITH LOCAL SITE CONDITIONS.
AN3: ANCHOR RODS, NUTS, FLAT WASHERS FOR ANCHOR RODS, AND CONCRETE/MASONRY EMBEDMENT PLATES ARE NOT BY THE METAL BUILDING MANUFACTURER.

AN4: THE ANCHOR ROD LOCATIONS PROVIDED BY THE METAL BUILDING MANUFACTURER SATISFY PERTINENT REQUIREMENTS FOR THE DESIGN OF THE MATERIALS SUPPLIED BY THE METAL BUILDING MANUFACTURER. IT IS THE RESPONSIBILITY OF THE FOUNDATION ENGINEER TO MAKE CERTAIN THAT SUFFICIENT EDGE DISTANCE IS PROVIDED FOR ALL ANCHOR RODS IN THE DETAILS OF THE FOUNDATION DESIGN.
AN5: DRAWINGS ARE NOT TO SCALE. SEE DETAILS FOR COLUMN ORIENTATION.
AN6: THE ANCHOR ROD PLAN INDICATES WHERE THE ANCHOR RODS ARE TO BE PLACED AS WELL AS THE FOOTPRINT OF THE METAL BUILDING. IT IS ESSENTIAL THAT THESE ANCHOR ROD PATTERNS BE FOLLOWED. IF THESE SETTINGS DIFFER FROM THE ARCHITECTURAL FOUNDATION PLANS, THE METAL BUILDING MANUFACTURER MUST BE CONTACTED IMMEDIATELY - BEFORE CONCRETE IS PLACED.

AN7: "SINGLE" CEE COLUMNS SHALL BE ORIENTED WITH THE "TOES" TOWARD THE LOW EAVE UNLESS NOTED OTHERWISE.
AN8: ALL DIMENSIONS ARE OUT TO OUT OF STEEL. IF A CONCRETE NOTCH IS REQUIRED THEN THE REQUIRED DIMENSION SHOULD BE ADDED TO OBTAIN THE OUT TO OUT OF CONCRETE DIMENSIONS.
AN9: FINISHED FLOOR ELEVATION = 100'-0" AND BOTTOM OF BASE PLATE = 100'-0" UNLESS NOTED OTHERWISE.



ANCHOR RODS				
QTY.	DIA.	MATERIAL	PROJECTION (+/-)	
28	3/4"	F1554 GR 36	3"	
116	1-1/4"	F1554 GR 36	3-1/2"	
	1-1/2"	F1554 GR 36	3-1/2"	

DESIGN
ENGINEER
DATE

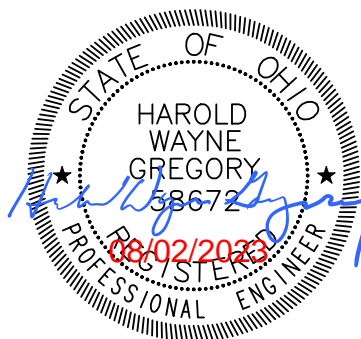
GENERAL INFORMATION FOR COLUMN BASE PLATE REACTIONS☐ FOR REVIEW☒ FOR CONSTRUCTION**Project Name:** RiAlto Addition - No Cranes**Project Number:** K23G0354A**Customer:** STEVENS CONSTRUCTION CO INC**Design Engineer:** Phelps, Brice (KBS)**Checked:** JDJ 8/2/2023

Column base reactions are included in this packet for a building designed by the metal building manufacturer. These reactions result from frame analysis done by a qualified Engineer for this specific job. They reflect all loading to which the building may be subject, per the appropriate building code and loading information provided to the metal building manufacturer at the date of design. Reaction packets marked "FOR REVIEW" are subject to change and are usually provided at the request of the customer, although the Engineer believes he/she is working with undefined, incomplete or assumed information.

Reactions are provided by load case in order to aid the foundation engineer in determining the appropriate load factors and combinations to be used with either Working Stress or Ultimate Strength design methods. Wind load cases are given for each primary wind direction.

For ASCE7-10 based building codes, the unfactored load case reactions due to wind are generated using the ultimate design wind speed (Vult).

Anchor bolt diameter, grade, location and projection is provided on the Anchor Bolt Plan. Anchor bolt embedment lengths and types are not provided by the metal building manufacturer. This information is closely related to the complete foundation design which should be done by a Registered Professional Engineer familiar with the local site conditions and construction practices.

*Excellence from the ground up*

NUCOR BUILDINGS GROUP

Job # : K23G0354A

File : E11-0.nfr

App Version : 1.7.91.0

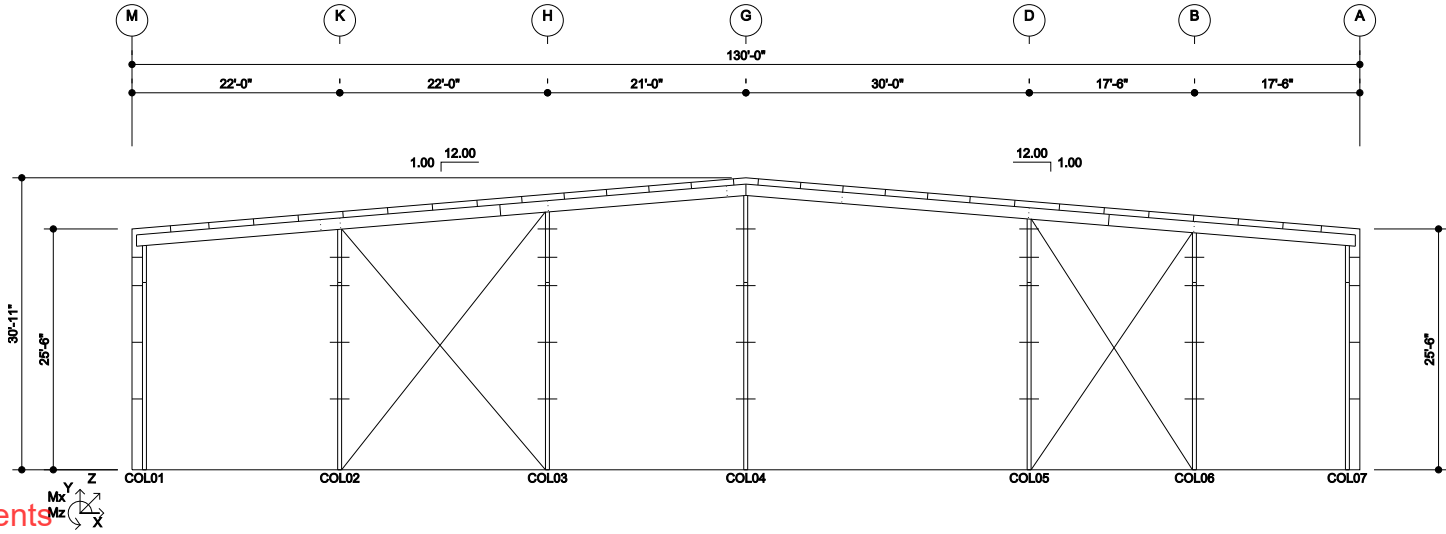
Job Name : RiAlto Addition - No Cranes

Designer : BEP

Date : 7/28/2023

Frame : FL 1

NBG Reactions By Load Case Report



Member	X (kips)	Y (kips)	Z (kips)	Mx (kip-ft)	Mz (kip-ft)	Member	X (kips)	Y (kips)	Z (kips)	Mx (kip-ft)	Mz (kip-ft)
LOAD CASE 1 - DEAD						LOAD CASE 2 - COLLATERAL					
COL01	0	1	0	0	0	COL01	0	1	0	0	0
COL02	0	2	0	0	0	COL02	0	2	0	0	0
COL03	0	2	0	0	0	COL03	0	2	0	0	0
COL04	0	2	0	0	0	COL04	0	2	0	0	0
COL05	0	3	0	0	0	COL05	0	3	0	0	0
COL06	0	2	0	0	0	COL06	0	1	0	0	0
COL07	0	1	0	0	0	COL07	0	1	0	0	0
LOAD CASE 3 - ROOF LIVE						LOAD CASE 4 - SNOW					
COL01	0	3	0	0	0	COL01	0	2	0	0	0
COL02	0	7	0	0	0	COL02	0	5	0	0	0
COL03	0	7	0	0	0	COL03	0	5	0	0	0
COL04	0	6	0	0	0	COL04	0	4	0	0	0
COL05	0	9	0	0	0	COL05	0	6	0	0	0
COL06	0	4	0	0	0	COL06	0	3	0	0	0
COL07	0	3	0	0	0	COL07	0	2	0	0	0
LOAD CASE 5 - MINIMUM ROOF SNOW						LOAD CASE 6 - WIND CASE 1 TO RIGHT					
COL01	0	3	0	0	0	COL01	0	-3	0	0	0
COL02	0	7	0	0	0	COL02	-3	-11	0	0	0
COL03	0	7	0	0	0	COL03	0	-6	0	0	0
COL04	0	6	0	0	0	COL04	0	-5	0	0	0
COL05	0	9	0	0	0	COL05	-3	-7	0	0	0
COL06	0	4	0	0	0	COL06	0	2	0	0	0
COL07	0	3	0	0	0	COL07	0	-2	0	0	0
LOAD CASE 7 - WIND CASE 1 TO LEFT						LOAD CASE 8 - WIND CASE 2 TO RIGHT					
COL01	0	-2	0	0	0	COL01	0	-5	0	0	0
COL02	0	-1	0	0	0	COL02	-3	-14	0	0	0
COL03	3	-6	0	0	0	COL03	0	-9	0	0	0
COL04	0	-6	0	0	0	COL04	0	-7	0	0	0
COL05	0	-8	0	0	0	COL05	-3	-11	0	0	0
COL06	2	-8	0	0	0	COL06	0	-1	0	0	0
COL07	0	-3	0	0	0	COL07	0	-3	0	0	0

NUCOR BUILDINGS GROUP

Job # : K23G0354A

File : E11-0.nfr

App Version : 1.7.91.0

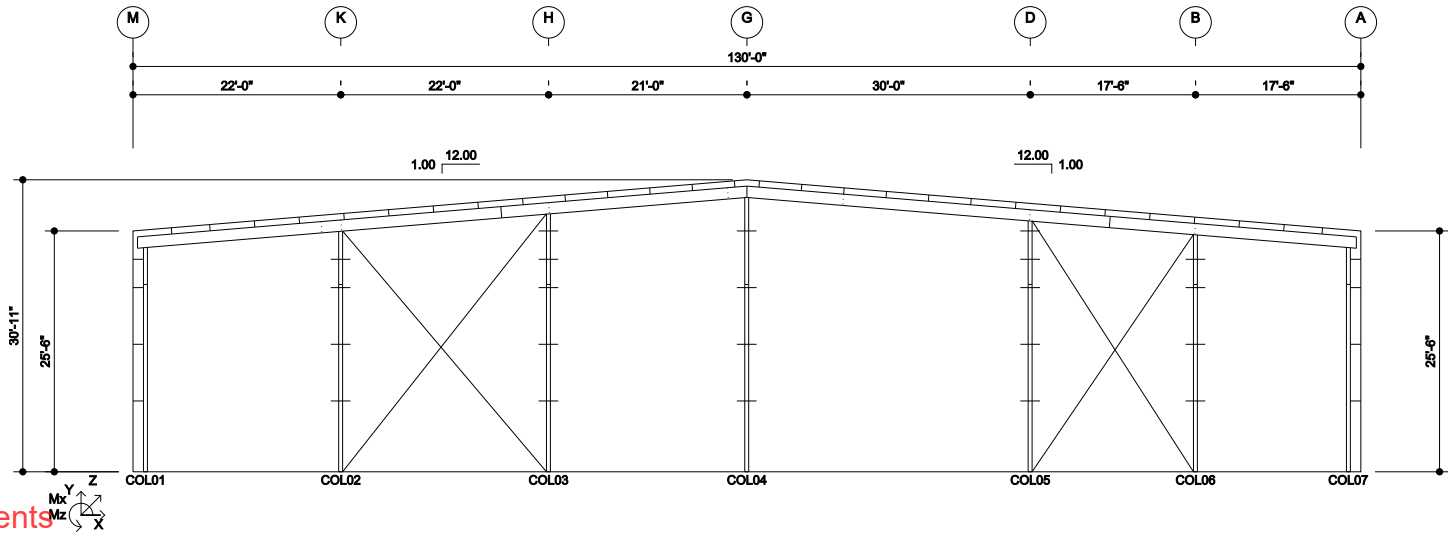
Job Name : RiAlto Addition - No Cranes

Designer : BEP

Date : 7/28/2023

Frame : FL 1

NBG Reactions By Load Case Report



Member	X (kips)	Y (kips)	Z (kips)	Mx (kip-ft)	Mz (kip-ft)	Member	X (kips)	Y (kips)	Z (kips)	Mx (kip-ft)	Mz (kip-ft)
LOAD CASE 9 - WIND CASE 2 TO LEFT						LOAD CASE 10 - LONG. WIND 1 TO BACK					
COL01	0	-3	0	0	0	COL01	0	-5	-3	0	0
COL02	0	-4	0	0	0	COL02	0	-12	-5	0	0
COL03	3	-10	0	0	0	COL03	0	-12	-5	0	0
COL04	0	-8	0	0	0	COL04	0	-10	-7	0	0
COL05	0	-12	0	0	0	COL05	0	-15	-6	0	0
COL06	2	-10	0	0	0	COL06	0	-7	-4	0	0
COL07	0	-4	0	0	0	COL07	0	-5	-2	0	0
LOAD CASE 11 - LONG. WIND 1 TO FRONT						LOAD CASE 12 - SEISMIC TO RIGHT					
COL01	0	-5	3	0	0	COL01	0	0	0	0	0
COL02	0	-12	5	0	0	COL02	-1	-1	0	0	0
COL03	0	-12	6	0	0	COL03	0	1	0	0	0
COL04	0	-10	8	0	0	COL04	0	0	0	0	0
COL05	0	-15	6	0	0	COL05	-1	-1	0	0	0
COL06	0	-7	4	0	0	COL06	0	1	0	0	0
COL07	0	-5	3	0	0	COL07	0	0	0	0	0
LOAD CASE 13 - SEISMIC TO LEFT						LOAD CASE 14 - ALTERNATE SNOW 1					
COL01	0	0	0	0	0	COL01	0	2	0	0	0
COL02	0	1	0	0	0	COL02	0	5	0	0	0
COL03	1	-1	0	0	0	COL03	0	8	0	0	0
COL04	0	-1	0	0	0	COL04	0	4	0	0	0
COL05	0	1	0	0	0	COL05	0	2	0	0	0
COL06	1	-1	0	0	0	COL06	0	1	0	0	0
COL07	0	0	0	0	0	COL07	0	1	0	0	0
LOAD CASE 15 - ALTERNATE SNOW 2											
COL01	0	1	0	0	0						
COL02	0	2	0	0	0						
COL03	0	2	0	0	0						
COL04	0	5	0	0	0						
COL05	0	9	0	0	0						
COL06	0	2	0	0	0						
COL07	0	2	0	0	0						

NUCOR BUILDINGS GROUP

Job # : K23G0354A

File : F11-0.nfr

App Version : 1.7.91.0

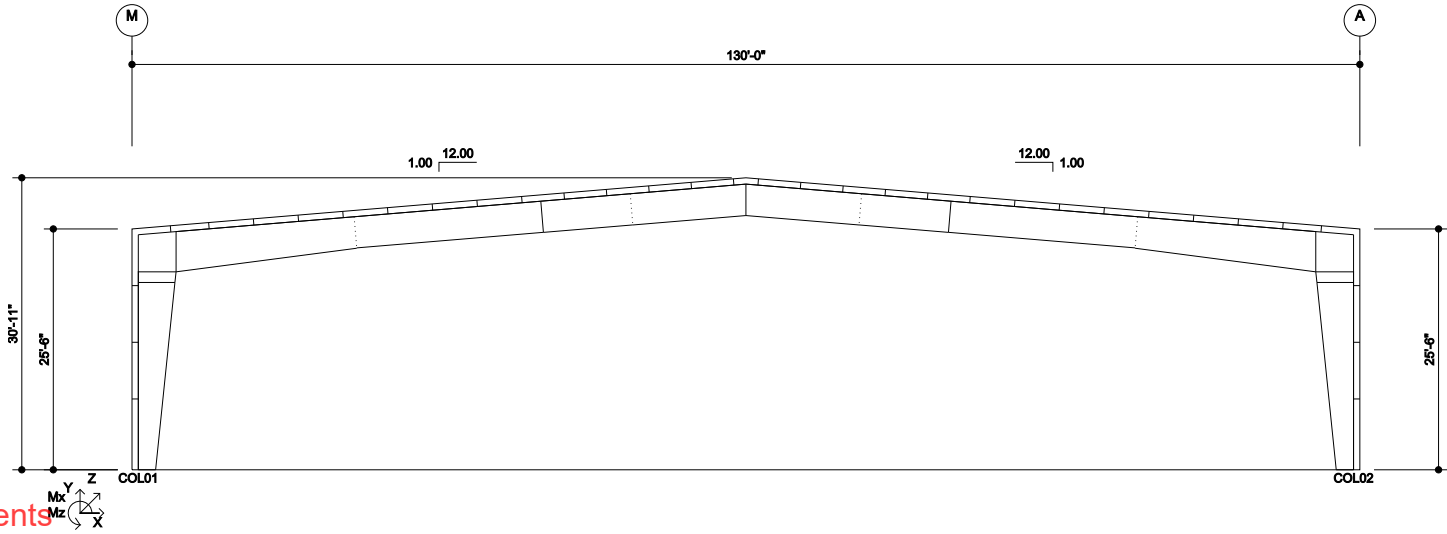
Job Name : RiAlto Addition - No Cranes

Designer : BEP

Date : 7/28/2023

Frame : FL 2,5

NBG Reactions By Load Case Report



Member	X (kips)	Y (kips)	Z (kips)	Mx (kip-ft)	Mz (kip-ft)	Member	X (kips)	Y (kips)	Z (kips)	Mx (kip-ft)	Mz (kip-ft)
LOAD CASE 1 - DEAD						LOAD CASE 2 - COLLATERAL					
COL01	8	11	0	0	0	COL01	8	9	0	0	0
COL02	-8	11	0	0	0	COL02	-8	9	0	0	0
LOAD CASE 3 - ROOF LIVE						LOAD CASE 4 - SNOW					
COL01	18	21	0	0	0	COL01	21	24	0	0	0
COL02	-18	21	0	0	0	COL02	-21	24	0	0	0
LOAD CASE 5 - MINIMUM ROOF SNOW						LOAD CASE 6 - WIND CASE 1 TO RIGHT					
COL01	29	35	0	0	0	COL01	-21	-22	0	0	0
COL02	-29	35	0	0	0	COL02	11	-12	0	0	0
LOAD CASE 7 - WIND CASE 1 TO LEFT						LOAD CASE 8 - WIND CASE 2 TO RIGHT					
COL01	-11	-12	0	0	0	COL01	-33	-39	0	0	0
COL02	21	-22	0	0	0	COL02	23	-29	0	0	0
LOAD CASE 9 - WIND CASE 2 TO LEFT						LOAD CASE 10 - LONG. WIND 1 TO BACK					
COL01	-23	-29	0	0	0	COL01	-12	-20	0	0	0
COL02	33	-39	0	0	0	COL02	13	-13	0	0	0
LOAD CASE 11 - LONG. WIND 1 TO FRONT						LOAD CASE 12 - LONG. WIND 2 TO BACK					
COL01	-13	-13	0	0	0	COL01	-24	-37	0	0	0
COL02	12	-20	0	0	0	COL02	25	-30	0	0	0
LOAD CASE 13 - LONG. WIND 2 TO FRONT						LOAD CASE 14 - SEISMIC TO RIGHT					
COL01	-25	-30	0	0	0	COL01	-1	-1	0	0	0
COL02	24	-37	0	0	0	COL02	-1	1	0	0	0
LOAD CASE 15 - SEISMIC TO LEFT						LOAD CASE 16 - ALTERNATE SNOW 1					
COL01	1	1	0	0	0	COL01	18	25	0	0	0
COL02	1	-1	0	0	0	COL02	-18	15	0	0	0
LOAD CASE 17 - ALTERNATE SNOW 2											
COL01	18	15	0	0	0						
COL02	-18	25	0	0	0						

NUCOR BUILDINGS GROUP

Job # : K23G0354A

File : F11-0.nfr

App Version : 1.7.91.0

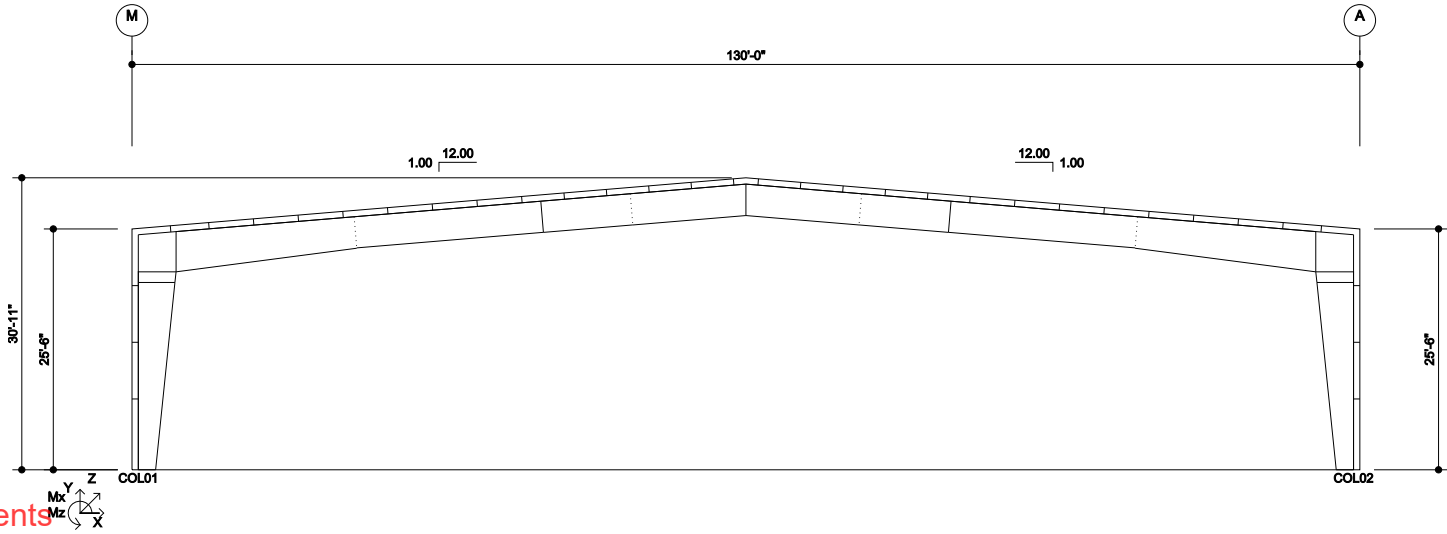
Job Name : RiAlto Addition - No Cranes

Designer : BEP

Date : 7/28/2023

Frame : FL 3,4,6,7,8

NBG Reactions W/Bracing By Load Case Report



Member	X (kips)	Y (kips)	Z (kips)	Mx (kip-ft)	Mz (kip-ft)	Member	X (kips)	Y (kips)	Z (kips)	Mx (kip-ft)	Mz (kip-ft)
LOAD CASE 1 - DEAD						LOAD CASE 2 - COLLATERAL					
COL01	8	11	0	0	0	COL01	8	9	0	0	0
COL02	-8	11	0	0	0	COL02	-8	9	0	0	0
LOAD CASE 3 - ROOF LIVE						LOAD CASE 4 - SNOW					
COL01	18	21	0	0	0	COL01	21	24	0	0	0
COL02	-18	21	0	0	0	COL02	-21	24	0	0	0
LOAD CASE 5 - MINIMUM ROOF SNOW						LOAD CASE 6 - WIND CASE 1 TO RIGHT					
COL01	29	35	0	0	0	COL01	-21	-22	0	0	0
COL02	-29	35	0	0	0	COL02	11	-12	0	0	0
LOAD CASE 7 - WIND CASE 1 TO LEFT						LOAD CASE 8 - WIND CASE 2 TO RIGHT					
COL01	-11	-12	0	0	0	COL01	-33	-39	0	0	0
COL02	21	-22	0	0	0	COL02	23	-29	0	0	0
LOAD CASE 9 - WIND CASE 2 TO LEFT						LOAD CASE 10 - LONG. WIND 1 TO BACK					
COL01	-23	-29	0	0	0	COL01	-12	-20	0	0	0
COL02	33	-39	0	0	0	COL02	13	-13	0	0	0
LOAD CASE 11 - LONG. WIND 1 TO FRONT						LOAD CASE 12 - LONG. WIND 2 TO BACK					
COL01	-13	-13	0	0	0	COL01	-24	-37	0	0	0
COL02	12	-20	0	0	0	COL02	25	-30	0	0	0
LOAD CASE 13 - LONG. WIND 2 TO FRONT						LOAD CASE 14 - SEISMIC TO RIGHT					
COL01	-25	-30	0	0	0	COL01	-1	-1	0	0	0
COL02	24	-37	0	0	0	COL02	-1	1	0	0	0
LOAD CASE 15 - SEISMIC TO LEFT						LOAD CASE 16 - ALTERNATE SNOW 1					
COL01	1	1	0	0	0	COL01	18	25	0	0	0
COL02	1	-1	0	0	0	COL02	-18	15	0	0	0
LOAD CASE 17 - ALTERNATE SNOW 2						LOAD CASE 18 - BRACING WIND TO FRONT					
COL01	18	15	0	0	0	COL01	-1	-9	8	0	0
COL02	-18	25	0	0	0	COL02	1	-9	8	0	0

NUCOR BUILDINGS GROUP

Job # : K23G0354A

File : F11-0.nfr

App Version : 1.7.91.0

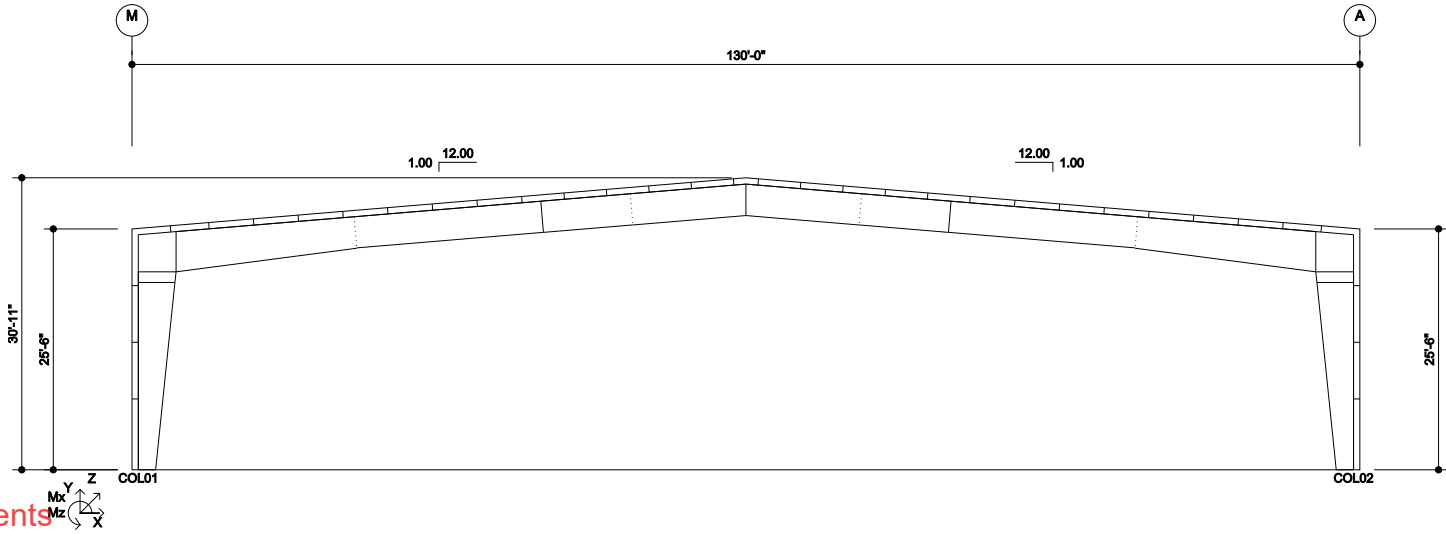
Job Name : RiAlto Addition - No Cranes

Designer : BEP

Date : 7/28/2023

Frame : FL 3,4,6,7,8

NBG Reactions W/Bracing By Load Case Report



Member	X (kips)	Y (kips)	Z (kips)	Mx (kip-ft)	Mz (kip-ft)	Member	X (kips)	Y (kips)	Z (kips)	Mx (kip-ft)	Mz (kip-ft)
LOAD CASE 19 - BRACING WIND TO BACK						LOAD CASE 20 - BRACING SEISMIC TO BACK					
COL01	1	9	-8	0	0	COL01	1	7	-7	0	0
COL02	-1	9	-8	0	0	COL02	-1	7	-7	0	0
LOAD CASE 21 - BRACING SEISMIC TO FRONT											
COL01	0	-7	7	0	0						
COL02	0	-7	7	0	0						

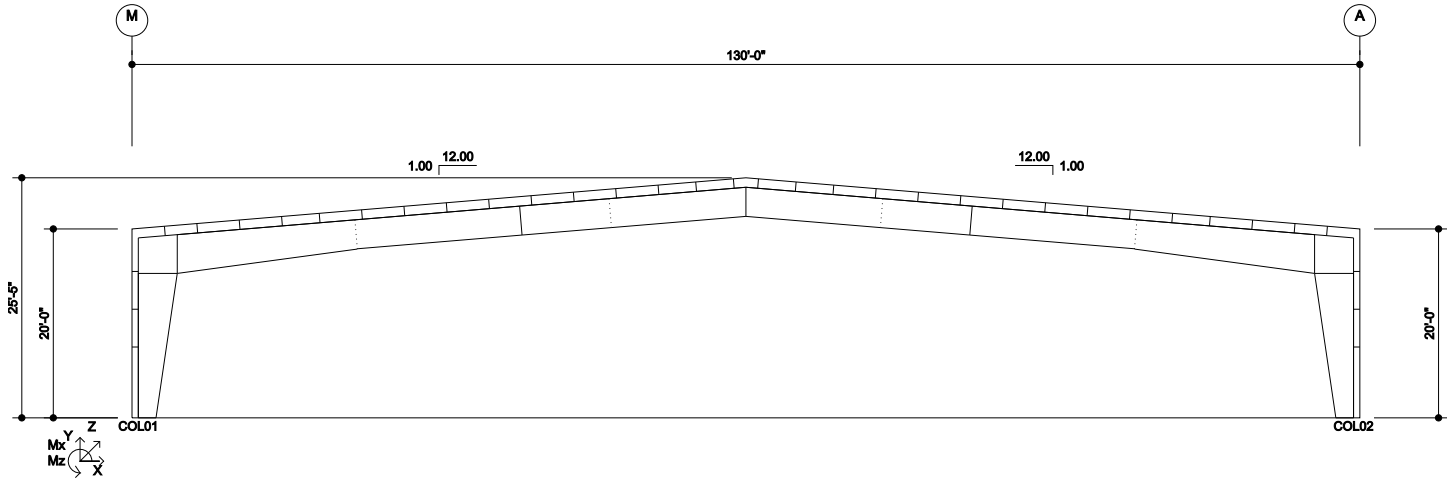
NUCOR BUILDINGS GROUP

Job # : K23G0354A
File : F21-0.nfr
App Version : 1.7.91.0

Job Name : RiAlto Addition - No Cranes
Designer : BEP
Date : 7/30/2023

Frame : FL 9

NBG Reactions W/Bracing By Load Case Report



Member	X (kips)	Y (kips)	Z (kips)	Mx (kip-ft)	Mz (kip-ft)	Member	X (kips)	Y (kips)	Z (kips)	Mx (kip-ft)	Mz (kip-ft)
LOAD CASE 1 - DEAD						LOAD CASE 2 - COLLATERAL					
COL01	16	17	0	0	0	COL01	12	11	0	0	0
COL02	-16	17	0	0	0	COL02	-12	11	0	0	0
LOAD CASE 3 - ROOF LIVE						LOAD CASE 4 - SNOW					
COL01	36	32	0	0	0	COL01	67	59	0	0	0
COL02	-36	32	0	0	0	COL02	-67	59	0	0	0
LOAD CASE 5 - MINIMUM ROOF SNOW						LOAD CASE 6 - WIND CASE 1 TO RIGHT					
COL01	44	38	0	0	0	COL01	-22	-28	0	0	0
COL02	-44	38	0	0	0	COL02	37	-23	0	0	0
LOAD CASE 7 - WIND CASE 1 TO LEFT						LOAD CASE 8 - WIND CASE 2 TO RIGHT					
COL01	-37	-23	0	0	0	COL01	-41	-46	0	0	0
COL02	22	-28	0	0	0	COL02	56	-41	0	0	0
LOAD CASE 9 - WIND CASE 2 TO LEFT						LOAD CASE 10 - LONG. WIND 1 TO BACK					
COL01	-57	-42	0	0	0	COL01	-47	-45	0	0	0
COL02	42	-46	0	0	0	COL02	48	-42	0	0	0
LOAD CASE 11 - LONG. WIND 1 TO FRONT						LOAD CASE 12 - LONG. WIND 2 TO BACK					
COL01	-48	-41	0	0	0	COL01	-54	-52	0	0	0
COL02	47	-45	0	0	0	COL02	55	-49	0	0	0
LOAD CASE 13 - LONG. WIND 2 TO FRONT						LOAD CASE 14 - SEISMIC TO RIGHT					
COL01	-55	-49	0	0	0	COL01	-3	-2	0	0	0
COL02	54	-52	0	0	0	COL02	-2	2	0	0	0
LOAD CASE 15 - SEISMIC TO LEFT						LOAD CASE 16 - ALTERNATE SNOW 1					
COL01	2	2	0	0	0	COL01	27	28	0	0	0
COL02	3	-2	0	0	0	COL02	-27	17	0	0	0
LOAD CASE 17 - ALTERNATE SNOW 2						LOAD CASE 18 - BRACING WIND TO FRONT					
COL01	28	17	0	0	0	COL01	-1	-9	8	0	0
COL02	-28	27	0	0	0	COL02	1	-9	8	0	0

NUCOR BUILDINGS GROUP

Job # : K23G0354A

File : F21-0.nfr

App Version : 1.7.91.0

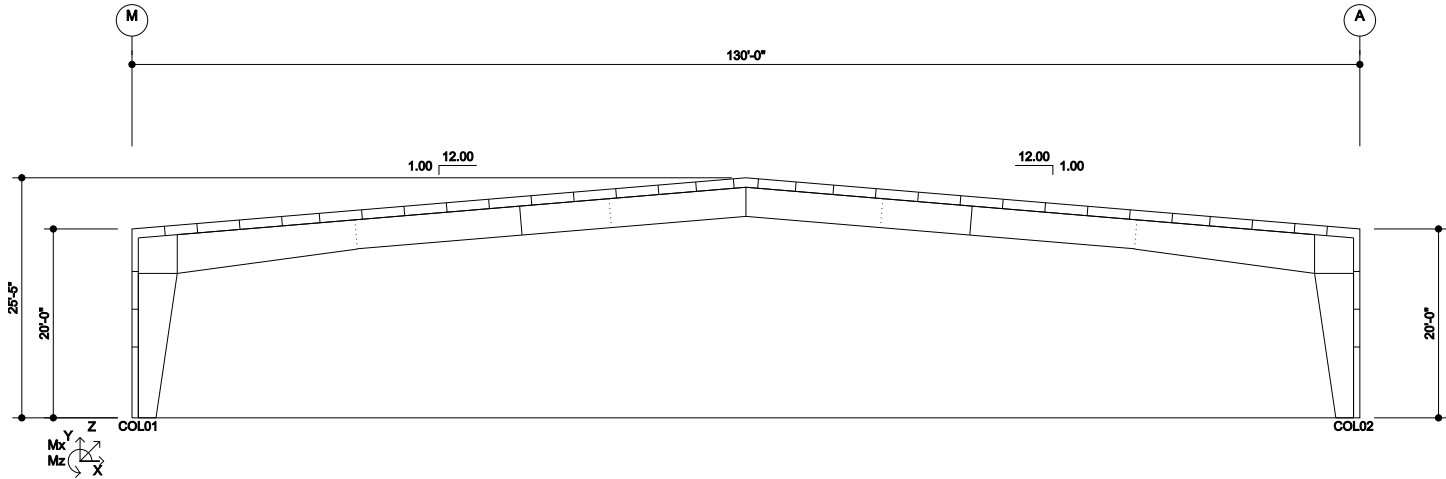
Job Name : RiAlto Addition - No Cranes

Designer : BEP

Date : 7/30/2023

Frame : FL 9

NBG Reactions W/Bracing By Load Case Report



components

Member	X (kips)	Y (kips)	Z (kips)	Mx (kip-ft)	Mz (kip-ft)	Member	X (kips)	Y (kips)	Z (kips)	Mx (kip-ft)	Mz (kip-ft)
LOAD CASE 19 - BRACING WIND TO BACK						LOAD CASE 20 - BRACING SEISMIC TO BACK					
COL01	1	9	-8	0	0	COL01	1	7	-7	0	0
COL02	-1	9	-8	0	0	COL02	-1	7	-7	0	0
LOAD CASE 21 - BRACING SEISMIC TO FRONT											
COL01	-1	-7	7	0	0						
COL02	1	-7	7	0	0						

NUCOR BUILDINGS GROUP

Job # : K23G0354A

File : F22-0.nfr

App Version : 1.7.91.0

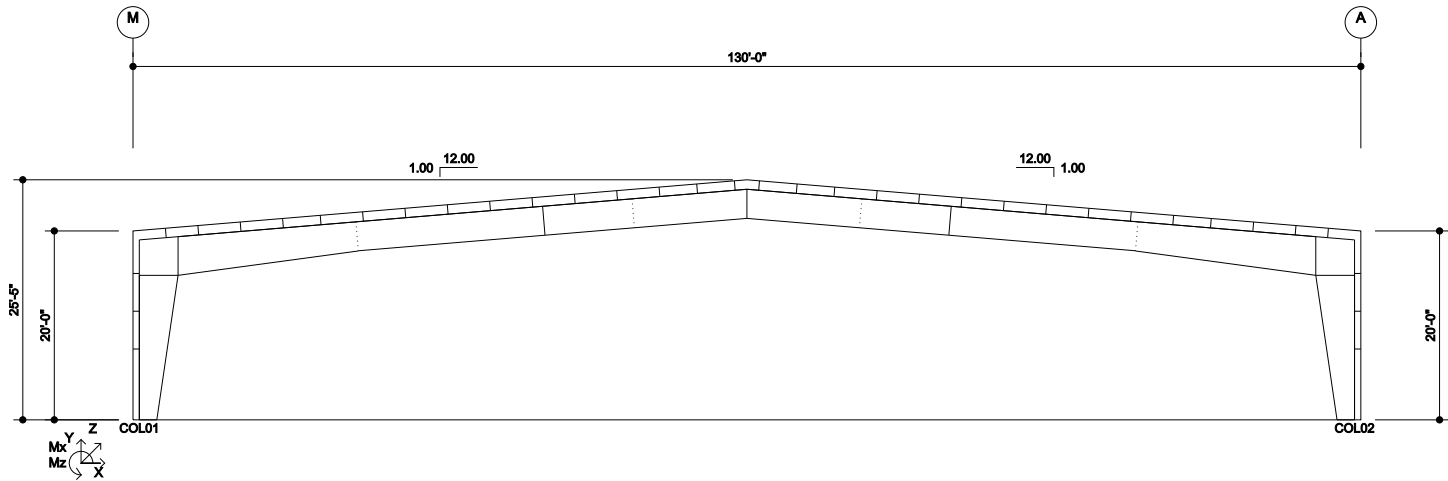
Job Name : RiAlto Addition - No Cranes

Designer : BEP

Date : 7/28/2023

Frame : FL 10

NBG Reactions By Load Case Report



Member	X (kips)	Y (kips)	Z (kips)	Mx (kip-ft)	Mz (kip-ft)	Member	X (kips)	Y (kips)	Z (kips)	Mx (kip-ft)	Mz (kip-ft)
LOAD CASE 1 - DEAD						LOAD CASE 2 - COLLATERAL					
COL01	12	13	0	0	0	COL01	11	10	0	0	0
COL02	-12	13	0	0	0	COL02	-11	10	0	0	0
LOAD CASE 3 - ROOF LIVE						LOAD CASE 4 - SNOW					
COL01	24	22	0	0	0	COL01	59	53	0	0	0
COL02	-24	22	0	0	0	COL02	-59	53	0	0	0
LOAD CASE 5 - MINIMUM ROOF SNOW						LOAD CASE 6 - WIND CASE 1 TO RIGHT					
COL01	40	36	0	0	0	COL01	-24	-21	0	0	0
COL02	-40	36	0	0	0	COL02	16	-12	0	0	0
LOAD CASE 7 - WIND CASE 1 TO LEFT						LOAD CASE 8 - WIND CASE 2 TO RIGHT					
COL01	-16	-12	0	0	0	COL01	-41	-38	0	0	0
COL02	24	-21	0	0	0	COL02	32	-29	0	0	0
LOAD CASE 9 - WIND CASE 2 TO LEFT						LOAD CASE 10 - LONG. WIND 1 TO BACK					
COL01	-32	-29	0	0	0	COL01	-17	-20	0	0	0
COL02	41	-38	0	0	0	COL02	18	-13	0	0	0
LOAD CASE 11 - LONG. WIND 1 TO FRONT						LOAD CASE 12 - LONG. WIND 2 TO BACK					
COL01	-18	-13	0	0	0	COL01	-34	-37	0	0	0
COL02	17	-20	0	0	0	COL02	35	-30	0	0	0
LOAD CASE 13 - LONG. WIND 2 TO FRONT						LOAD CASE 14 - SEISMIC TO RIGHT					
COL01	-35	-30	0	0	0	COL01	-2	-1	0	0	0
COL02	34	-37	0	0	0	COL02	-2	1	0	0	0
LOAD CASE 15 - SEISMIC TO LEFT						LOAD CASE 16 - ALTERNATE SNOW 1					
COL01	2	1	0	0	0	COL01	25	26	0	0	0
COL02	2	-1	0	0	0	COL02	-25	16	0	0	0
LOAD CASE 17 - ALTERNATE SNOW 2											
COL01	25	16	0	0	0						
COL02	-25	26	0	0	0						



a NUCOR company

P. O. Box 390 · Portland, TN 37148 · P 615-325-4165 · F 800-231-3460

Letter Of Transmittal

To: **STEVENS CONSTRUCTION CO INC**
2181 INNOVATION DRIVE, SUITE 101
MARION, OH 43302

Attn: **BEN STEVENS**
(740) 387-1931

Date: Wednesday, August 2, 2023

KBS Job No: **K23G0354A**

Project: **RIALTO ADDITION-NO CRANES**

Enclosed are the following items:

	DESCRIPTION	QTY	SIZE	Sheet No.(s)	Seal Qty
X	Anchor Rod Plan	3	24x36	C1, F1	N/A
	Permit Drawings				
	Permit Details				
	Approval Drawings				
	Approval Details				
	Confirmation Drawings				
	Erection Drawings				
	Erection Details				
	Bill Of Materials List				
X	Column Reactions	1		ALL REACTIONS	1
	Design Calculations				
X	Letter of Certification	1		1	1

Ship Via: ☒ UPS Ground ☐ US Mail ☐ UPS Overnight ☒ EMAIL

Seal Type: ☒ Electronic ☐ Wet ☐ Digital ☐ Embossed Sheets: LOC & REACTIONS

Your Attention is directed to the following:

- ☒ The above prints have been approved for construction
_____ Engineering has been completed. The job has been released for fabrication.
- ☐ The above prints are for obtaining the building permit
_____ Final detailing and fabrication have been scheduled. Changes or alterations to the building will cause the schedule and price to be subject to change.
_____ Final detailing and fabrication **have not been** scheduled. Changes or alterations to the building will cause the price to be subject to change.
- ☐ The above prints are issued for your approval
_____ Final detailing and fabrication **have not been** scheduled. Changes or alterations to the building will cause the price to be subject to change. Your price is protected based on the must ship date shown on the order contract. Please return the approved drawings no later than _____.
If the drawings are not returned by this date, the price will be subject to change.
_____ Final detailing and fabrication **have been** scheduled. Changes or alterations to the building will cause the schedule and price to be subject to change. The approved drawings must be returned with no changes, no later than _____.
If the drawings are not returned by this date, the schedule and price will be subject to change.
- ☐ The above documents have been revised. Please destroy previous issues.
Reason for revision:

DETAILER: TB
CHECKER: SRB

Sincerely,
Robert Hodges
robert.hodges@kirbybuildingsystems.com
615-745-6034



124 Kirby Dr.
Portland, TN 37148

Phone: (615) 325-4165

Sunday, July 30, 2023

STEVENS CONSTRUCTION CO INC
2181 INNOVATION DRIVE
MARION, OH 43302

Project Name: RiAlto Addition - No Cranes

Buildings: A->130'-0"x201'-0"x25'-6"(RCG, 1:12);
B->130'-0"x24'-0"x20'-0"(RCG, 1:12);

Attn.: BEN STEVENS

Project Location: Marion, OH 43302

Project Number: K23G0354A

This Letter of Design Certification ensures that the materials furnished by the metal building supplier are designed in accordance with the information specified to the metal building supplier on the order documents and summarized by the loading information listed below. The Project Engineer of Record (not the metal building supplier) is responsible for verifying that the building code and design loads meet any and all applicable local requirements.

The Professional Engineer whose seal appears on this Letter of Certification is employed by the metal building manufacturer, a Member of MBMA, and does not serve as or represent the Engineer of Record for this project and shall not be construed as such.

DESIGN LOAD CRITERIA:

Structural Loads Applied in General Accordance with: Ohio 2017 (IBC 2015)

Risk Category: II - Standard Buildings

PROJECT-WIDE LOADING INFORMATION:

Ground Snow Load: 20.00 psf Snow Exposure Factor, Ce: 1.00 Snow Imp. Factor, Is: 1.00

Roof Live Load: 20.00 psf Reducible as per code

Design Wind Velocity: 115 mph Nominal Design Wind Velocity: 89 mph ***C&C Wind: 30psf / -40psf

Is Roof to meet UL 90 Requirements?: No Wind Exposure: C

Seismic Criteria: Ss: 0.130 S1: 0.060 *No ground snow included in seismic calculation

Design Sds / Sd1: 0.139 / 0.096 Analysis Procedure: Equivalent Lateral Force Procedure

Seis. Imp. Factor, Ie: 1.00 Long. SFRS: Not Detailed For Seismic

Seis. Design Category: B Site Class: D Lat. SFRS: Not Detailed For Seismic

BUILDING-SPECIFIC LOADING INFORMATION:

Bldg	Roof Dead (psf)*	Collateral Dead		Snow Coefficient		Snow Load (psf)		Wind		Seismic		
		Pri (psf)	Sec (psf)	Ct	Cs	Ps (psf)	**Pm (psf)	Enclosure	GCpi	R	Cs	V (kips)
A	3.00	5.00	5.00	1.00	1.00	14.00	20.00	Enclosed	±0.18	3.00	0.046	16.1
B	3.50	5.00	5.00	1.00	1.00	14.00	20.00	Enclosed	±0.18	3.00	0.046	6.8

*Primary Structural Not Included

**Pm is based on the minimum roof snow load calculated per building code or the contract-specified roof snow load, whichever is greater. This value, Pm, is only applied in combination with Dead and Collateral Loads. Roof Snow in other loading conditions is determined per the specified Building Code.

***Design wind pressures to be used for wall exterior component and cladding materials not provided by Metal Building Supplier

Mezzanine Information:

Floor Dead Load: N/A

Floor Collateral Load: N/A

Floor Live Load: N/A

Crane Information:

No cranes on building.

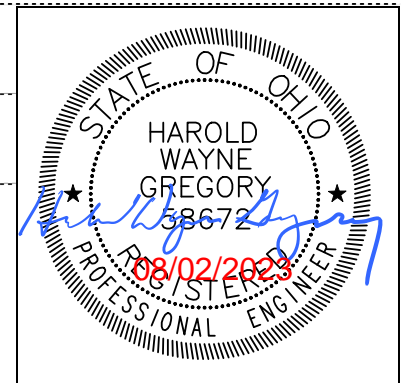
Roof-Top Unit Information:

No roof-top units on building.

The design of structural members supporting roof gravity loads is controlled by the more critical effect of roof live load or roof snow applied in accordance with the governing building code.

DESIGN STANDARDS REFERENCED:

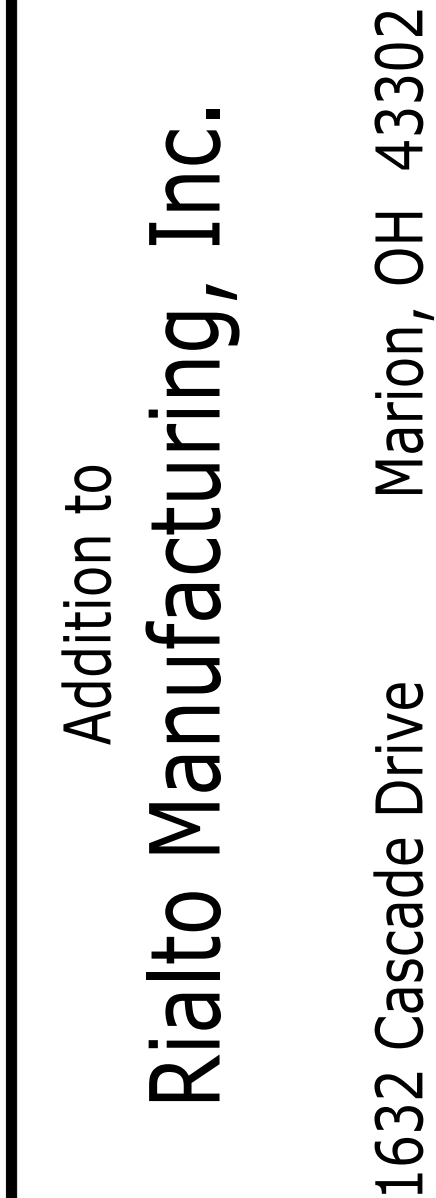
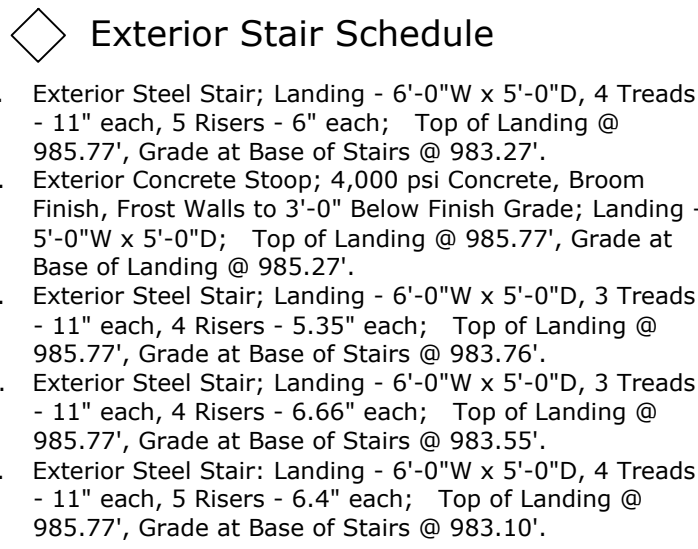
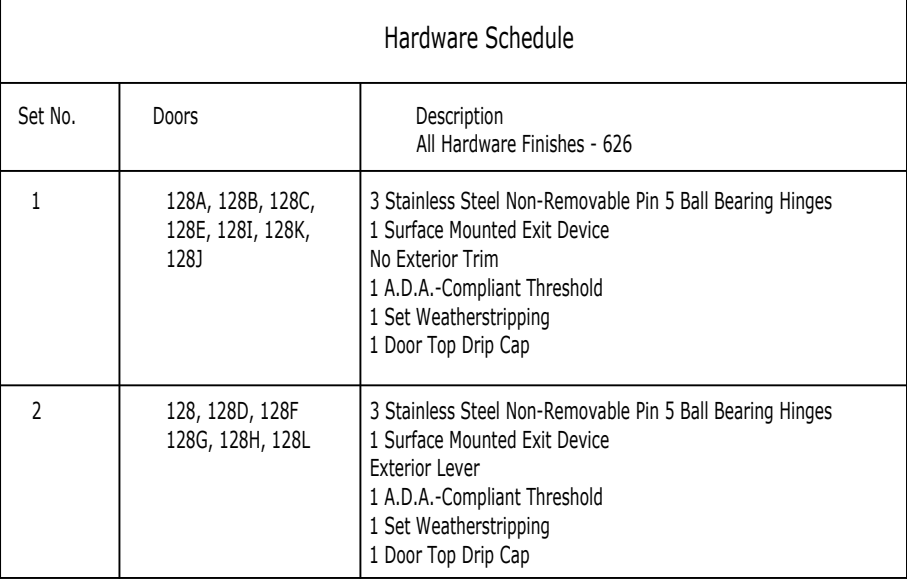
- AISC Specification for Structural Steel Buildings - Steel Construction Manual, 14th Edition, ©2010.
- AISI North-American Spec. for the Design of Cold-Formed Steel Structures, ©2012 Edition.
- IBC codes are designed in accordance with ASCE7-10 Edition.
- MBMA Metal Building Systems Manual, Latest Edition.
- AWS Latest Edition of Structural Welding Code.
- No buyout structural components provided on this project.



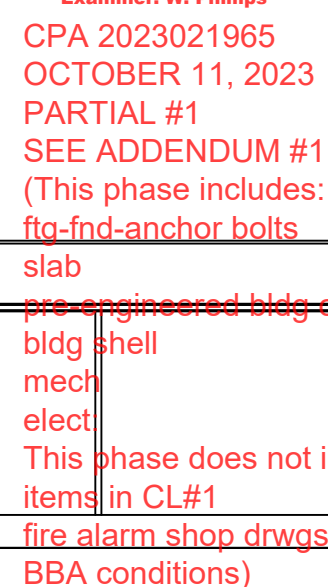
Professional Seal



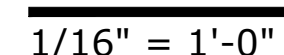
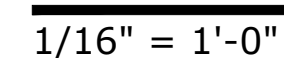
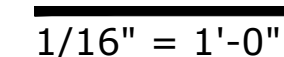
SHEET 1 OF 26



SHEET 2 OF 26




CPA 2023021965
OCTOBER 11, 2023
PARTIAL #1
SEE ADDENDUM #1
(This phase includes:
fg-fnd-anchor bolts
slab
pre-engineered bldg
bldg shell
mech
elect
This phase does not i
items in CL#1
fire alarm shop drwgs
BBA conditions)

$$1/16'' = 1'-0''$$


◆ Exterior Stair Schedule

1. Exterior Steel Landing: Landing - 6'-0" W x 5'-0", 4 Treads
- 11" each, 5 Risers - 6" each; Top of Landing @ 985.77', Grade at Base of Stairs @ 983.27'.
2. Exterior Concrete Stoop; 4,000 psi Concrete, Broom Finish, Front Walls to 3'-0" Below Finish Grade: Landing - 5'-0" W x 5'-0"; Top of Landing @ 985.77', Grade at Base of Landing @ 983.27'.
3. Exterior Steel Landing: Landing - 6'-0" W x 5'-0", 3 Treads
- 11" each, 4 Risers - 5.35" each; Top of Landing @ 985.77', Grade at Base of Stairs @ 983.76'.
4. Exterior Steel Landing: Landing - 6'-0" W x 5'-0", 3 Treads
- 11" each, 4 Risers - 6.66" each; Top of Landing @ 985.77', Grade at Base of Stairs @ 983.55'.
5. Exterior Steel Landing: Landing - 6'-0" W x 5'-0", 4 Treads
- 11" each, 5 Risers - 6.4" each; Top of Landing @ 985.77', Grade at Base of Stairs @ 983.10'.



OMNESS DESIGN, INC.
140 FAIRFAX ROAD
MARION, OHIO 43302
CONSULTANTS

Addition to
Rialto Manufacturing, Inc.

1632 Cascade Drive
Marion, OH 43302

SHEET TITLE

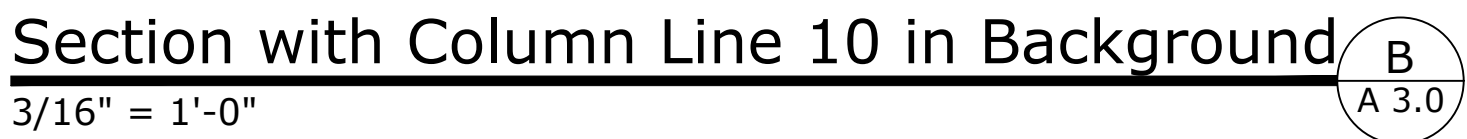
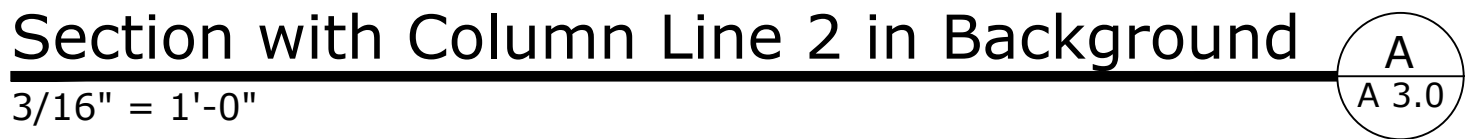
Elevations

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PROJECT NO: 22-128
CAD DWG FILE: 22-128 Rialto
DRAWN BY: PO
CHECKED BY: PO

A 2.0

SHEET 3 OF 26

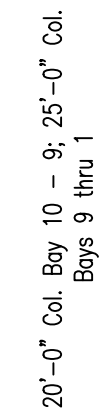
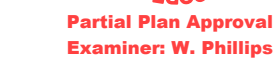
SHEET TITLE

Sections

[illegible]

PROJECT NO: 22-128
CAD DWG FILE: 22-128 Rialt
DRAWN BY: PO
CHECKED BY: PO

A 3.0


$$\frac{3}{4}'' = 1'-0''$$


CPA 2023021965
OCTOBER 11, 2023


$$1'' = 1' - 0''$$

OMNESS DESIGN, INC.
140 FAIRFAX ROAD
MARION, OHIO 43302

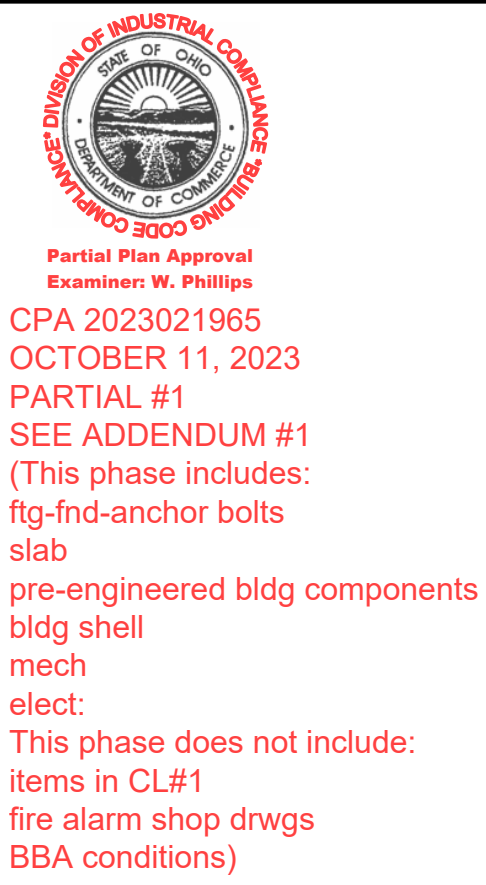
Addition to
Rialto Manufacturing, Inc.

Sections

[illegible]

PROJECT NO: 22-128
CAD DWG FILE: 22-128 Rialto
DRAWN BY: PO
CHECKED BY: PO

A 3.1

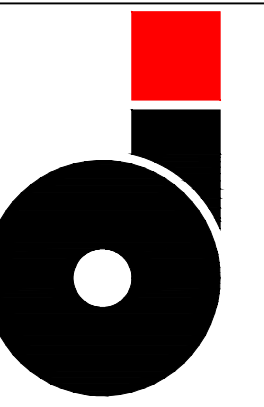
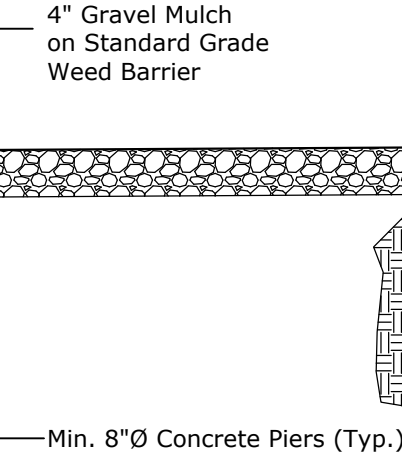


Section - Stoop 2
3/4" = 1'-0"



Refer to Section - Step 1 for Similar Notations

Section - Step 5



OMNESS DESIGN, INC.
140 FAIRFAX ROAD
MARION, OHIO 43302
CONSULTANTS

Addition to
Rialto Manufacturing, Inc.
1632 Cascade Drive Marion, OH 43302

SHEET TITLE

Stair & Step Sections

[illegible]

A 3.2

SHEET 7 OF 26

1. DEAD LOADS
 - BUILDING ROOF
 - A. BUILDING SELF WEIGHT = BY PEMB SUPPLIER
 - B. COLLATERAL = 5.0 PSF
 - C. TOTAL DEAD LOAD = 5.0 PSF + SELF WEIGHT
2. ROOF LIVE LOADS:
 - A. MINIMUM ROOF LIVE LOAD = 20 PSF
3. ROOF SNOW DESIGN PARAMETERS
 - A. GROUND SNOW LOAD $P_g = 20.0$ PSF
 - B. FLAT ROOF SNOW LOAD $P_f = 14.0$ PSF
 - C. MINIMUM UNIFORM ROOF DESIGN SNOW LOAD = 20.0 PSF
 - D. UNIFORM SNOW LOAD WITH UNBALANCED / DRIFTING = 14.0 PSF
 - E. SNOW EXPOSURE FACTOR $C_e = 1.0$
 - F. SNOW LOAD IMPORTANCE FACTOR $I = 1.0$
 - G. THERMAL FACTOR $C_t = 1.0$
 - H. DRIFTING SNOW AND UNBALANCED SNOW PER ASCE 7-10.

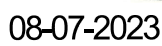
	ZONE	EFFECTIVE WIND AREA (SF)	POSITIVE PRESSURE (PSF)	NEGATIVE PRESSURE (PSF)
ROOF	①	10	10.0	-19.3
		50	10.0	-18.1
		100	10.0	-17.6
	②	10	10.0	-32.3
		50	10.0	-24.3
		100	10.0	-20.9
	③	10	10.0	-48.6
		50	10.0	-29.2
		100	10.0	-20.9
OVERHANGS	②	10	10.0	-27.7
		50	10.0	-26.6
		100	10.0	-26.1
	③	10	10.0	-45.7
		50	10.0	-22.9
		100	10.0	-13.1
WALLS	④	10	17.6	-19.1
		50	15.8	-17.3
		100	15.0	-16.5
	⑤	10	17.6	-23.5
		50	15.8	-19.9
		100	15.0	-18.3

- | | | |
|----|---|--|
| 5. | SEISMIC DESIGN PARAMETERS | |
| A. | SEISMIC IMPORTANCE FACTOR = 1.0 | |
| B. | SEISMIC OCCUPANCY CATEGORY = II | |
| C. | MAXIMUM CONSIDERED EARTHQUAKE GROUND MOTION AT 0.2 SECOND PERIOD, $SS = 13.0\%$ g | |
| D. | MAXIMUM CONSIDERED EARTHQUAKE GROUND MOTION AT 1.0 SECOND PERIOD, $S1 = 6.0\%$ g | |
| E. | SITE CLASS = D | |
| F. | $SDS = 0.137$ g | |
| G. | $SD1 = 0.085$ g | |
| H. | SEISMIC DESIGN CATEGORY = D | |
| I. | BUILDING SYSTEM: | STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE. |
| J. | SEISMIC RESISTING SYSTEM: | STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE. |
| J. | RESPONSE MODIFICATION FACTOR, R: | 3.0 |
| K. | DESIGN BASE SHEAR: | 0.046 |



CPA 2023021965
OCTOBER 11, 2023
PARTIAL #1
SEE ADDENDUM #1
(This phase includes:
ftg-fnd-anchor bolts
slab
pre-engineered bldg components
bldg shell
mech
elect:
This phase does not include:
items in CL#1
fire alarm shop drwgs
BBA conditions)

ITEM	REQ'D	INSPECTION TYPE		REFERENCED STANDARD	OBC REFERENCE
		CONT.	PER.		
FABRICATORS: (1705.2 OBC)	X				
INSPECTION AND NDE PER QUALITY ASSURANCE REQUIREMENTS OF AISC 360			X		
STRUCTURAL LOAD BEARING MEMBERS			X		
STRUCTURAL LOAD BEARING ASSEMBLIES			X		
STEEL CONSTRUCTION: (1705.2 OBC)	X				
INSPECTION AND NDE PER QUALITY ASSURANCE REQUIREMENTS OF AISC 360			X		
HIGH STRENGTH BOLTS			X		
STRUCTURAL STEEL MATERIALS			X		
STRUCTURAL STEEL WELDING			X		
STRUCTURAL STEEL FRAME JOINT DETAILS			X		
CONCRETE CONSTRUCTION	X				
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS INCLUDING PLACEMENT VERIFICATION			X	ACI 318: 25.2, 25.3, 26.5.1-26.5.3	1908.4
REINFORCING BAR WELDING			X	AWS D1.4 AND ACI 318: 26.5.4	
VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A-706			X	AWS D1.4 AND ACI 318: 26.5.4	
INSPECT SINGLE-PASS FILLET WELDS			X	AWS D1.4 AND ACI 318: 26.5.4	
INSPECT ALL OTHER WELDS		X		AWS D1.4 AND ACI 318: 26.5.4	
INSPECT ANCHORS CAST IN CONCRETE			X	ACI 318: 17.8.2	
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS					
ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS					
MECHANICAL ANCHORS AND ADHESIVE ANCHORS OTHER THAN THOSE DEFINED ABOVE					
VERIFY USE OF REQUIRED DESIGN MIX			X	ACI 318: CHAPTER 19 AND 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF CONCRETE		X		ASTM C 172, ASTM C 31, ACI 318: 26.4.5, 26.12	1908.10
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES		X		ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES			X	ACI 318: 26.4.7 - 26.4.9	1908.9
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS			X	ACI 318: CHAPTER 26.8	
SOILS	X				
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY			X		
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL			X		
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS			X		
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL		X			
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.			X		



CONSULTANTS



Addition to
RIALTO MANUFACTURING, INC.

1632 Cascade Drive
Marion, OH 43302

SHEET TITLE

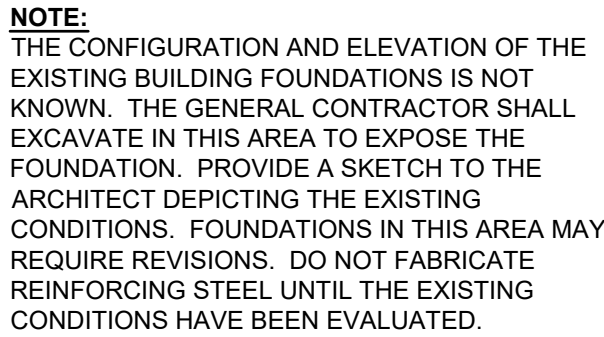
STRUCTURAL GENERAL NOTES

[illegible]

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CAD DWG FILE:
DRAWN BY: ACH
CHECKED BY: MDD

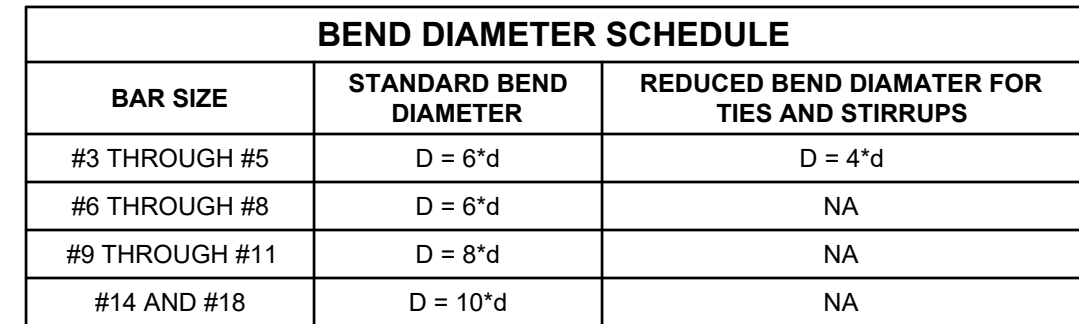
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SHEET 1 OF 8

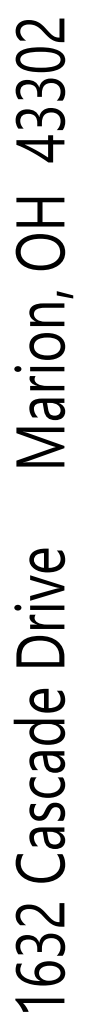
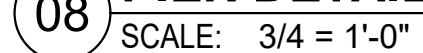
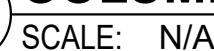
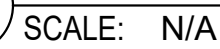
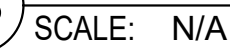
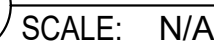


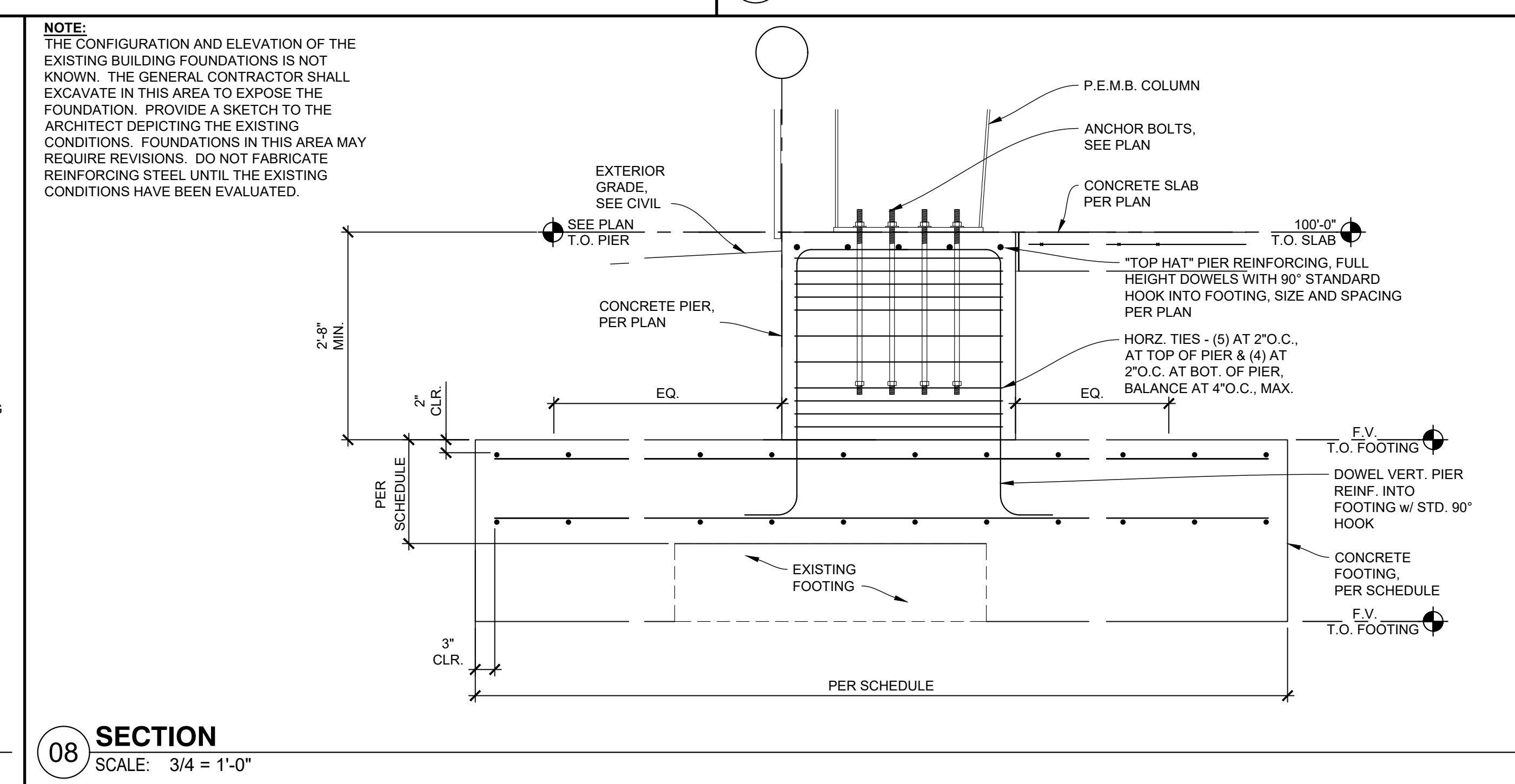
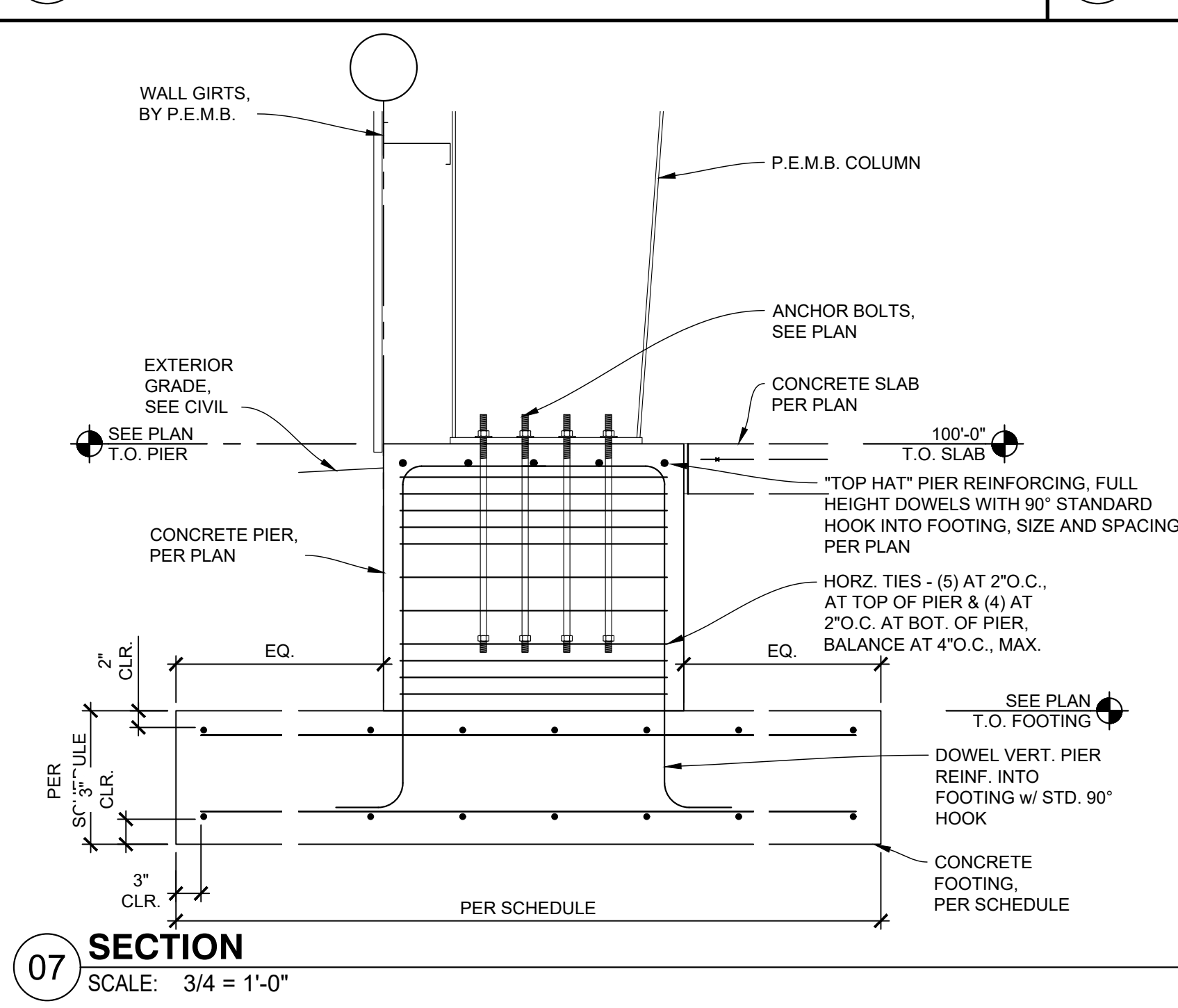
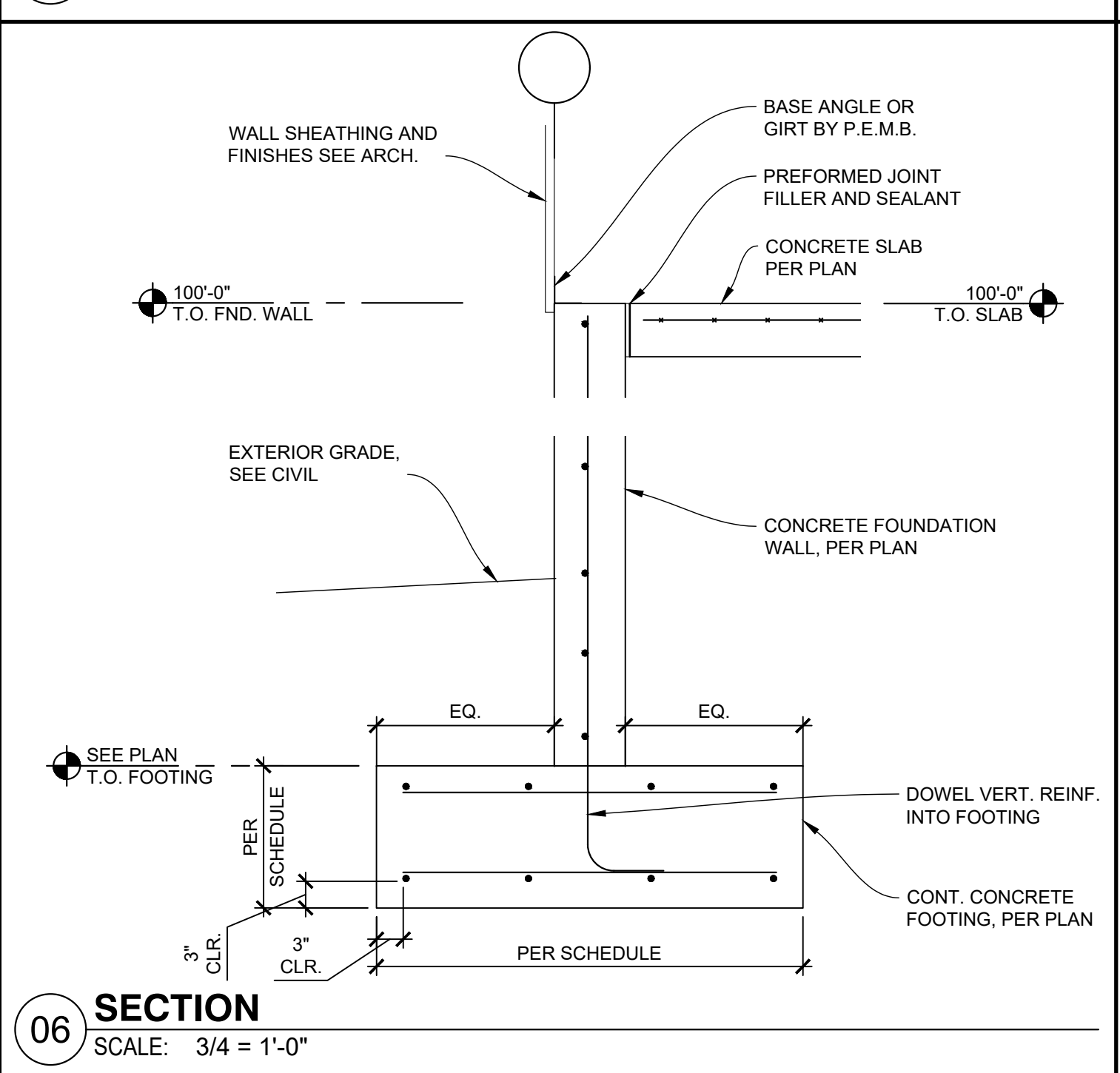
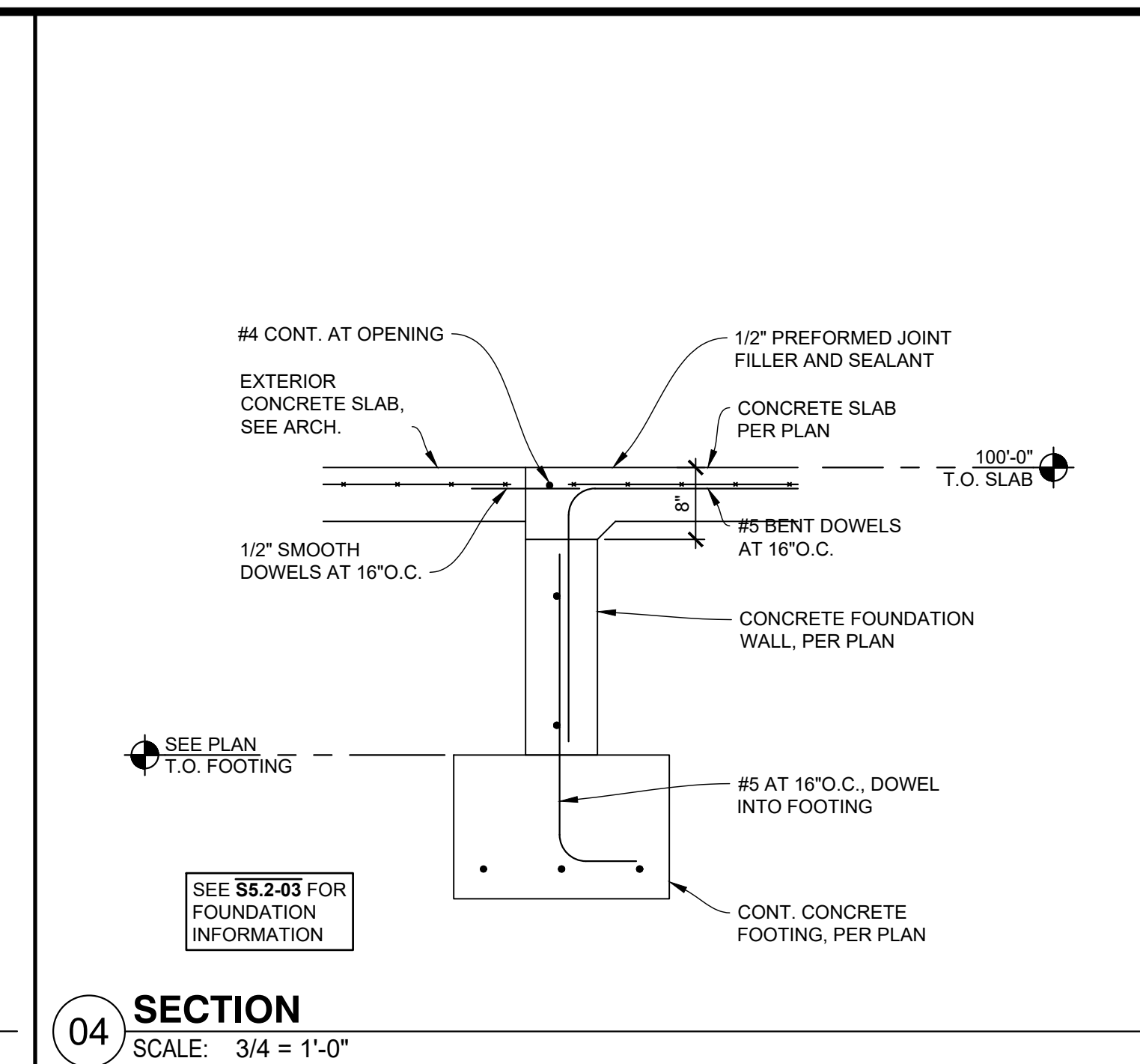
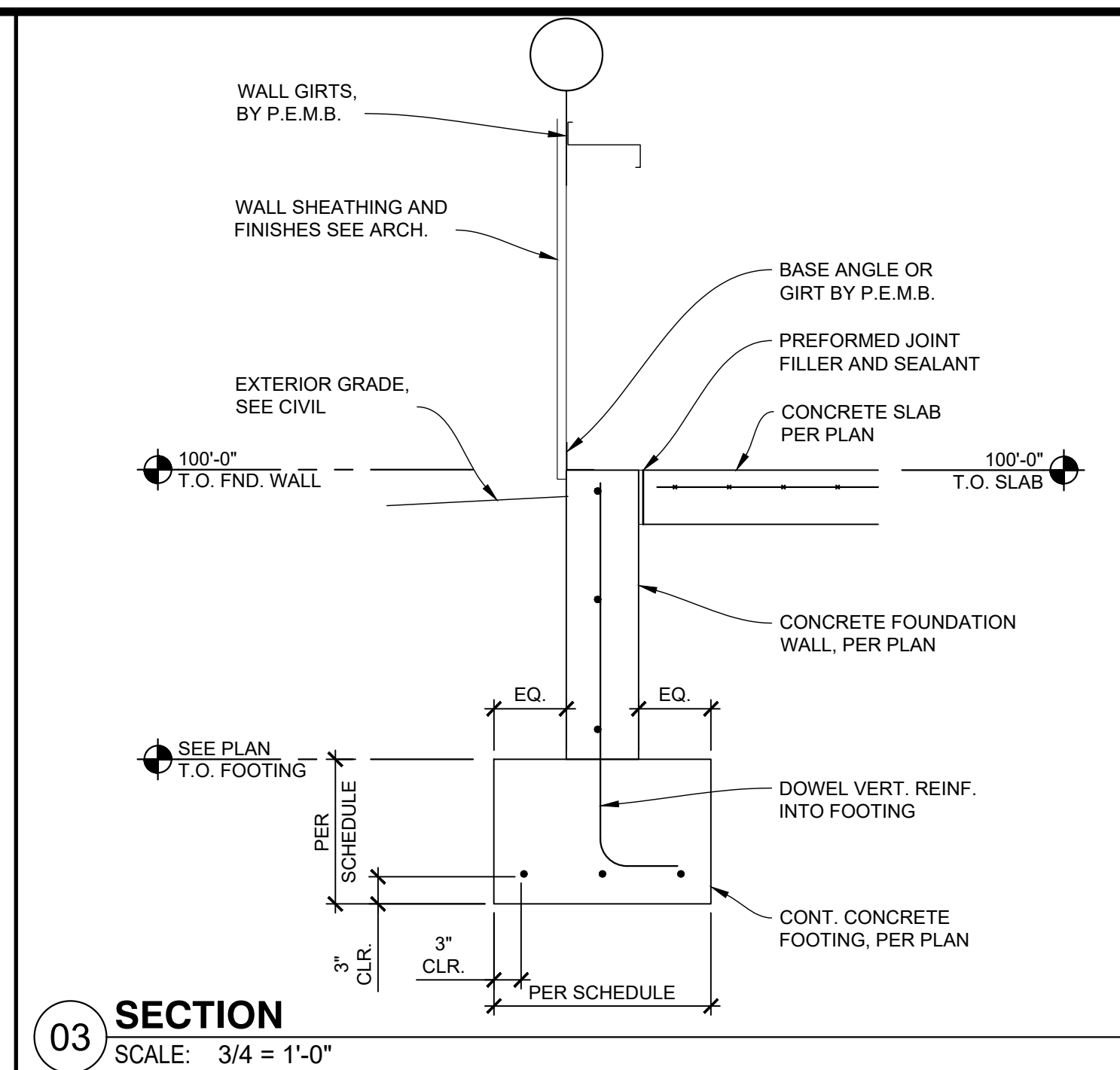
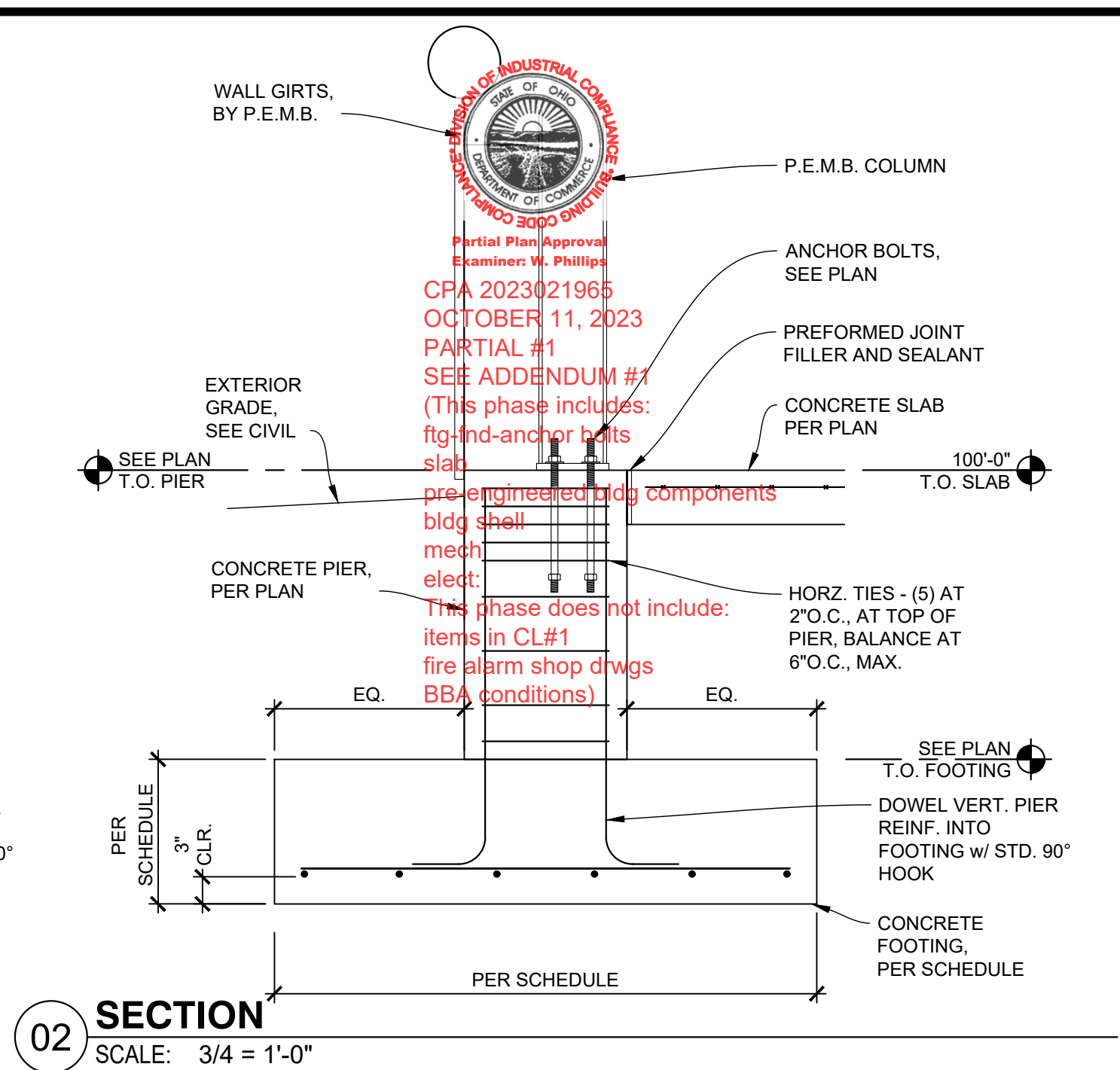
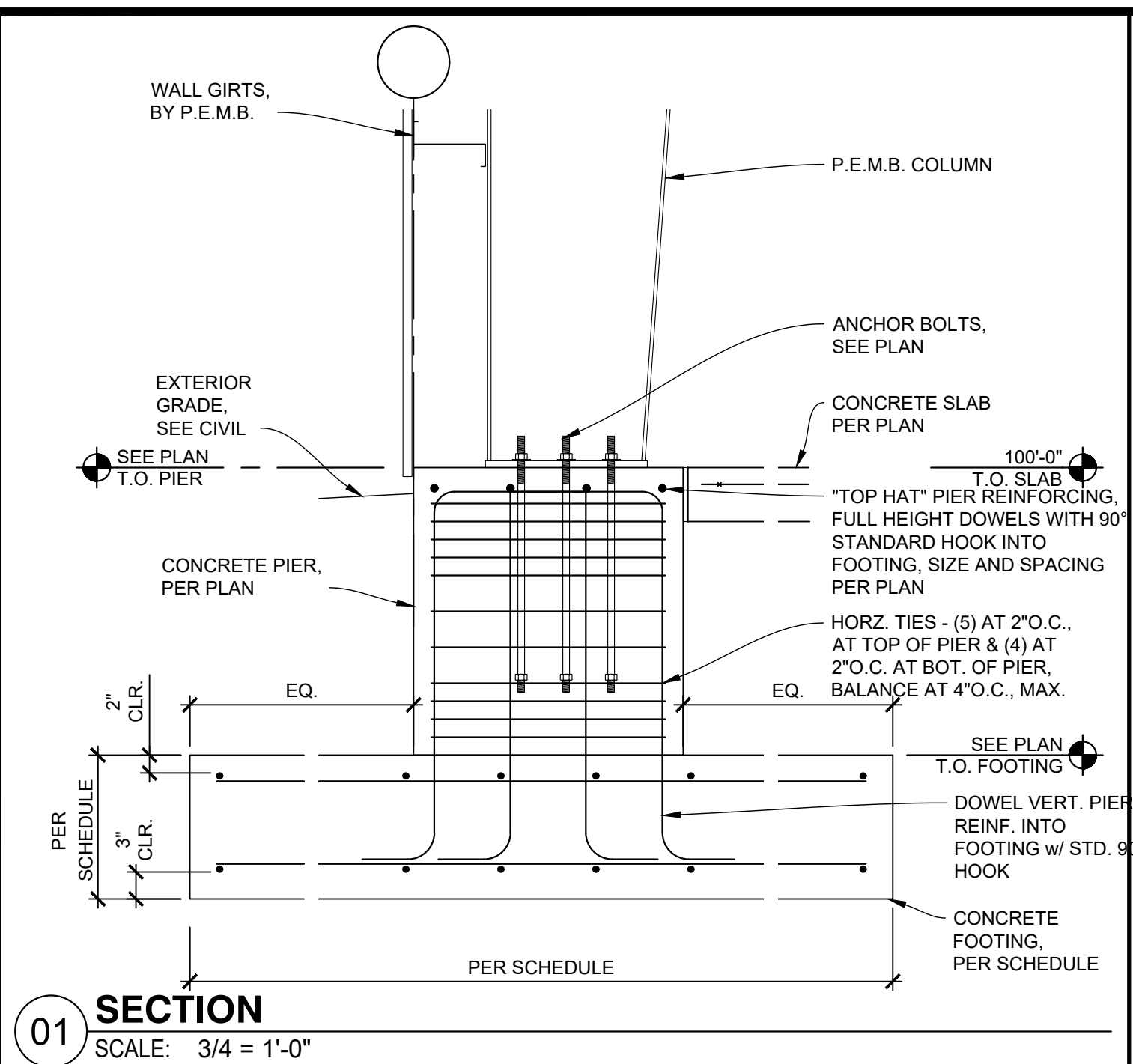
NOTE: THE CONFIGURATION AND ELEVATION OF THE EXISTING BUILDING FOUNDATIONS IS NOT KNOWN. THE GENERAL CONTRACTOR SHALL EXCAVATE IN THIS AREA TO EXPOSE THE FOUNDATION. PROVIDE A SKETCH TO THE ARCHITECT DEPICTING THE EXISTING CONDITIONS. FOUNDATIONS IN THIS AREA MAY REQUIRE REVISIONS. DO NOT FABRICATE REINFORCING STEEL UNTIL THE EXISTING CONDITIONS HAVE BEEN EVALUATED.

LEGEND		
<p>FTG. MARK TO FTG. EL.</p> <p>PIER MARK TO PIER EL.</p> <p>COLUMN AND COLUMN SPIGOT FOOTING</p>	<p>FTG. MARK TO FTG. EL.</p> <p>CONTINUOUS FOOTING</p>	<p>FOOTING STEP LOCATION SEE S5.1-03</p> <p>100.00'</p> <p>TOP OF SLAB ELEVATION</p>



01 SCALE: N/A = 1'-0"





NOTE:
THE CONFIGURATION AND ELEVATION OF THE EXISTING BUILDING FOUNDATIONS IS NOT KNOWN. THE GENERAL CONTRACTOR SHALL EXCAVATE IN THIS AREA TO EXPOSE THE FOUNDATION. PROVIDE A SKETCH TO THE ARCHITECT DEPICTING THE EXISTING CONDITIONS. FOUNDATIONS IN THIS AREA MAY REQUIRE REVISIONS. DO NOT FABRICATE REINFORCING STEEL UNTIL THE EXISTING CONDITIONS HAVE BEEN EVALUATED.



Addition to
RIALTO MANUFACTURING, INC
 1632 Cascade Drive Marion, OH 43302

[illegible]

GENERAL NOTES:

1. MATERIALS

STRUCTURAL STEEL PLATE
HOT ROLLED MILLS SHAPES
HSS ROUND
HSS RECTANGULAR
COLD FORM SHAPES
ROOF AND WALL SHEETING
BOLTS
CABLE
RODS

ASTM DESCRIPTION
AS529 / A572 / A1011
A36 / A529 / A572 / A500
A500
A500
A653 / A1011
A653 / A792
A307 / A325 / A490
A475
A529 / A572
2. STRUCTURAL PRIMER NOTE:

SHOP COAT PRIMER IS INTENDED TO PROTECT THE STEEL FRAMING FOR A SHORT PERIOD OF TIME. STORAGE IN EXTREME COLD TEMPERATURES OR WINTER SNOW CONDITIONS, INCLUDING TRANSPORTATION ON SALTED OR CHEMICALLY TREATED ROADS WILL ADVERSELY AFFECT THE DURABILITY AND LONGEVITY OF THE PRIMER. THE COAT OF SHOP PRIMER DOES NOT PROVIDE THE UNIFORMITY OF APPEARANCE, OR THE DURABILITY AND CORROSION RESISTANCE OF A FIELD APPLIED FINISH COAT OF PAINT OVER A SHOP PRIMER. MINOR ABRASIONS TO THE SHOP COAT PRIMER CAUSED BY HANDLING, LOADING, SHIPPING, UNLOADING AND ERECTION ARE UNAVOIDABLE AND ARE NOT THE RESPONSIBILITY OF THE METAL BUILDING MANUFACTURER. METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR THE DETERIORATION OF THE PRIMER OR CORROSION THAT MAY RESULT FROM ATMOSPHERIC AND ENVIRONMENTAL CONDITIONS NOR THE COMPATIBILITY OF THE PRIMER TO ANY FIELD APPLIED COATING.
3. BUILDING ERECTION NOTES:

THE GENERAL CONTRACTOR AND/OR ERECTOR IS RESPONSIBLE TO SAFELY AND PROPERLY ERECT THE METAL BUILDING SYSTEM IN CONFORMANCE WITH THESE DRAWINGS, OSHA REQUIREMENTS, AND EITHER MBMA OR CSA S16 STANDARDS PERTAINING TO PROPER ERECTION. TEMPORARY SUPPORTS SUCH AS GUYS, BRACES, FALSEWORK, CRIBBING, OR OTHER ELEMENTS FOR ERECTION ARE TO BE DETERMINED, FURNISHED, AND INSTALLED BY THE ERECTOR. THESE SUPPORTS MUST SECURE THE STEEL FRAMING, OR PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED IN ADDITION TO LOADS RESULTING FROM THE ERECTION OPERATION. SECONDARY WALL AND ROOF FRAMING (GIRTS, PURLINS, AND/OR JOISTS) ARE NOT DESIGNED TO FUNCTION AS A WORKING PLATFORM OR TO PROVIDE AS AN ANCHORAGE POINT FOR A FALL ARREST / SAFETY TIE OFF.
4. SPECIAL INSPECTION:

SPECIAL INSPECTIONS AND TESTING THAT MAY BE REQUIRED BY GOVERNMENTAL OR OTHER AUTHORITY DURING CONSTRUCTION AND/OR STEEL FABRICATION (COLLECTIVELY, "INSPECTIONS") ARE NOT THE RESPONSIBILITY OF NBG, AND TO THE EXTENT REQUIRED IT SHALL BE THE RESPONSIBILITY OF THE BUILDER AND/OR OWNER. IN THE EVENT INSPECTIONS ARE REQUIRED, THE BUILDER AND/OR OWNER SHALL EMPLOY A THIRD PARTY QUALITY ASSURANCE TESTING AGENCY APPROVED BY THE RELEVANT AUTHORITY. IF SUCH REQUIREMENTS ARE NOT SPECIFICALLY INCLUDED IN NBG SALES DOCUMENTS, NO INSPECTIONS BY NBG OR AT ANY NBG FACILITY SHALL BE MADE. ALL NBG FACILITIES ARE ACCREDITED BY IAS AC472.
5. A325 & A490 BOLT TIGHTENING REQUIREMENTS:

IT IS THE RESPONSIBILITY OF THE ERECTOR TO ENSURE PROPER BOLT TIGHTNESS IN ACCORDANCE WITH APPLICABLE REGULATIONS. FOR PROJECTS IN THE UNITED STATES SEE THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS OR FOR PROJECTS IN CANADA, SEE THE CAN/CSA S16 LIMIT STATES DESIGN OF STEEL STRUCTURES FOR MORE INFORMATION.

THE FOLLOWING CRITERIA MAY BE USED TO DETERMINE THE BOLT TIGHTNESS (I.E., "SNUG-TIGHT" OR "FULLY-PRETENSIONED"), UNLESS REQUIRED OTHERWISE BY LOCAL JURISDICTION OR CONTRACT REQUIREMENTS:

A) ALL A490 BOLTS SHALL BE "FULLY-PRETENSIONED"

B) ALL A325 BOLTS IN PRIMARY FRAMING (RIGID FRAMES AND BRACING) MAY BE "SNUG-TIGHT", EXCEPT AS FOLLOWS: "FULLY-PRETENSION" A325 BOLTS IF:

a) BUILDING SUPPORTS A CRANE SYSTEM WITH A CAPACITY GREATER THAN 5 TONS.

b) BUILDING SUPPORTS MACHINERY THAT CREATES VIBRATION, IMPACT OR STRESS-REVERSALS ON THE CONNECTIONS. THE ENGINEER-OF-RECORD FOR THE PROJECT SHOULD BE CONSULTED TO EVALUATE FOR THIS CONDITION.

c) THE PROJECT SITE IS LOCATED IN A HIGH SEISMIC AREA. FOR IBC-BASED CODES, "HIGH SEISMIC AREA" IS DEFINED AS "SEISMIC DESIGN CATEGORY" OF "D", "E", OR "F". SEE THE "BUILDING LOADS" SECTION OF THIS PAGE FOR THE DEFINED SEISMIC DESIGN CATEGORY FOR THIS PROJECT.

d) ANY CONNECTION DESIGNATED IN THESE DRAWINGS AS "A325-SC" OR "SLIP-CRITICAL (SC)" CONNECTIONS MUST BE FREE OF PAINT, OIL, OR OTHER MATERIALS THAT REDUCE FRICTION AT CONTACT SURFACES. GALVANIZED OR LIGHTLY RUSTED SURFACES ARE ACCEPTABLE.

C) IN CANADA, ALL A325 AND A490 BOLTS SHALL BE "FULLY PRE-TENSIONED", EXCEPT FOR SECONDARY MEMBERS (PURLINS, GIRTS, OPENING FRAMING, ETC.) AND FLANGE BRACES.

SECONDARY MEMBER (PURLIN, GIRT, OPENING FRAMING, ETC.) AND FLANGE BRACE CONNECTIONS MAY ALWAYS BE "SNUG-TIGHT", UNLESS INDICATED OTHERWISE IN THESE DRAWINGS.

6. GENERAL DESIGN NOTES:

1) ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS ARE DESIGNED IN ACCORDANCE WITH ANSI/AISC 360 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" OR THE CAN/CSA S16 "LIMIT STATES DESIGN OF STEEL STRUCTURES", AS REQUIRED BY THE SPECIFIED BUILDING CODE.

2) ALL WELDING OF STRUCTURAL STEEL IS BASED ON EITHER AWS D1.1 "STRUCTURAL WELDING CODE – STEEL" OR CAN/CSA W59 "WELDED STEEL CONSTRUCTION (METAL ARC WELDING)", AS REQUIRED BY THE SPECIFIED BUILDING CODE.

3) ALL COLD FORMED MEMBERS ARE DESIGNED IN ACCORDANCE WITH ANSI/AISI 100 OR THE CAN/CSA S136 "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", AS REQUIRED BY THE SPECIFIED BUILDING CODE.

4) ALL WELDING OF COLD FORMED STEEL IS BASED ON AWS D1.3 "STRUCTURAL WELDING CODE – SHEET STEEL" OR CAN/CSA W59 "WELDED STEEL CONSTRUCTION (METAL ARC WELDING)", AS REQUIRED BY THE SPECIFIED BUILDING CODE.

5) THIS MANUFACTURING FACILITY IS IAS AC-472 ACCREDITED AND CAN/CSA A660 AND W47.1 CERTIFIED (IF APPLICABLE) FOR THE DESIGN AND MANUFACTURING OF METAL BUILDING SYSTEMS.

6) IF JOISTS ARE INCLUDED WITH THIS PROJECT, THEY ARE SUPPLIED AS A PART OF THE SYSTEMS ENGINEERED METAL BUILDING AND ARE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1926.758 OF OSHA SAFETY STANDARDS FOR STEEL ERECTION DATED JANUARY 18, 2001.

THE DRAWINGS AND THE METAL BUILDING THEY REPRESENT ARE THE PRODUCT OF THE METAL BUILDING MANUFACTURER. THE REGISTERED PROFESSIONAL ENGINEER'S SEAL PERTAINS ONLY TO THE REQUIREMENTS LISTED HEREIN FOR THE MATERIALS DESIGNED AND SUPPLIED BY THE METAL BUILDING MANUFACTURER. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS EMPLOYED OR ENGAGED BY THE METAL BUILDING MANUFACTURER AND DOES NOT SERVE AS OR REPRESENT THE PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH.

7. GLOSSARY OF ABBREVIATIONS:

A.B. = ANCHOR RODS
B.U. = BUILT-UP
BS = BOTH SIDES
DIA = DIAMETER
F.S. = FAR SIDE
FLG = FLANGE
GA = GAUGE
H.S.B. = HIGH STRENGTH BOLTS
HT. = HEIGHT
LLV = LONG LEG VERTICAL

M.B. = MACHINE BOLTS
MAX = MAXIMUM
MBS = METAL BUILDING SUPPLIER
MIN = MINIMUM
N.S. = NEAR SIDE
N/A = NOT APPLICABLE
NIC = NOT IN CONTRACT
O.A.L. = OVERALL LENGTH
O.C. = ON CENTER

PL = PLATE
REQ'D = REQUIRED
REV. = REVISION
SIM = SIMILAR
SL = STEEL LINE
SLV = SHORT LEG VERTICAL
TBD = TO BE DETERMINED
TYP = TYPICAL
U.N.O. = UNLESS NOTED OTHERWISE

?? = PART MARK TO BE DETERMINED AND WILL BE UPDATED ON CONSTRUCTION DRAWINGS

Partial Plan Approval
Examiner: W. Phillips

CPA 202302146

OCTOBER 11, 2023

PARTIAL #1

SEE ADDENDUM

(This phase includes

fig-fnd-anchor bldg

slab

pre-engineered bldg components

bldg shell

mech

elect:

This phase does not include

items in CL#1

fire alarm shop

BBA conditions

PROJECT BUILDING LOADS

CERTIFICATION EXTENDS ONLY FOR THE LOADS SPECIFIED ON KIRBY'S PURCHASE ORDER TO THE STRUCTURAL COMPONENTS OF THE BUILDING DESIGNED AND SUPPLIED BY KIRBY BUILDING SYSTEMS, IF ERECTED AS INDICATED. KIRBY'S CUSTOMER IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT. NOTE THAT KIRBY'S ENGINEER IS NOT ACTING AS THE ENGINEER OF RECORD FOR THIS CONSTRUCTION PROJECT. DESIGN LOADS HAVE BEEN APPLIED IN ACCORDANCE WITH THE FOLLOWING.

DESIGN CODE: OHIO 2017 (IBC 2015)
ROOF LIVE LOAD: 20.00 psf
RISK CATEGORY: II - STANDARD BUILDINGS
REDUCIBLE PER CODE

GROUND SNOW LOAD: 20.00 psf
SNOW EXP. FACTOR, Ce: 1.00
SNOW IMPORTANCE FACTOR, Is: 1.00

ULTIMATE DESIGN WIND SPEED: 115 mph (Vult)
NOMINAL DESIGN WIND SPEED: 89 mph (Vasd)

WIND EXPOSURE: C

DESIGN SUCTION / PRESSURE FOR WALL COMPONENTS
AND CLADDING NOT DESIGNED OR PROVIDED BY KBS: + 30 PSF / - 40 PSF

UL-90 : NO

SEISMIC INFORMATION: Ss: 0.130 S1: 0.060
DESIGN (Sds / Sd1) : 0.139/0.096 SITE CLASS: D
SEISMIC IMP. FACTOR, Ie: 1.00 SEISMIC DESIGN CATEGORY: B

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
BASIC SFRS: NOT DETAILED FOR SEISMIC

STATE: OHIO
COUNTY: MARION

NOTES:

1) COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILINGS, ETC., ARE SUSPENDED FROM ROOF MEMBERS, CONSULT THE M.B.S. IF THESE CONCENTRATED LOADS EXCEED 500 POUNDS (USING THE WEB MOUNT DETAIL), OR 200 POUNDS (USING THE FLANGE MOUNT DETAIL), OR IF INDIVIDUAL MEMBERS ARE LOADED SIGNIFICANTLY MORE THAN OTHERS.

2) THE DESIGN OF STRUCTURAL MEMBERS SUPPORTING GRAVITY LOADS IS CONTROLLED BY THE MORE CRITICAL EFFECT OF ROOF LIVE LOAD OR ROOF SNOW LOAD, AS DETERMINED BY THE APPLICABLE CODE.

3) ALL WELDING MUST BE PERFORMED BY AWS QUALIFIED WELDERS FOR THE WELDING PROCESSES AND POSITIONS TO BE USED. ALL WELDING AND WELD PREP MUST BE COMPLETED AND VISUALLY INSPECTED TO AWS ACCEPTANCE CRITERIA (TABLE 6.1) IN ACCORDANCE WITH THE APPLICABLE AWS STANDARD. WELD ELECTRODES USED FOR ALL FIELD WELD PROCESSES MUST BE SELECTED FROM TABLE 3.1 IN AWS D1.1 FOR GROUP II MATERIAL GREATER THAN OR EQUAL TO 0.125" THICK OR TABLE 1.2 IN AWS D1.3 FOR MATERIAL LESS THAN 0.125" THICK AND ALL FILLER MATERIAL MUST HAVE A Fu OF 70 KSI.

4) ALL EXTERIOR COMPONENTS (WINDOWS, DOORS, ETC) MUST MEET WIND LOADING REQUIREMENTS FOR THE BUILDING CODE LISTED ABOVE OR MUST BE ADEQUATELY PROTECTED DURING A HIGH WIND EVENT. ALL GLAZING AND OTHER APPLICABLE OPENINGS IN WINDBORNE DEBRIS REGIONS MUST BE IMPACT-RESISTANT OR PROTECTED WITH AN IMPACT-RESISTANT COVERING. IMPACT RESISTANT MATERIALS MUST MEET THE LARGE AND/OR SMALL MISSILE TEST OF ASTM E 1996 AND ASTM E 1886.

BUILDING SPECIFIC LOADING INFORMATION

* DEAD LOAD: NORMAL WEIGHT OF METAL BUILDING COMPONENTS, NOT INCLUDING PRIMARY FRAMING, AS SUPPLIED BY THE MANUFACTURER

** Pm IS BASED ON THE MINIMUM ROOF SNOW LOAD CALCULATED PER BUILDING CODE OR THE CONTRACT-SPECIFIED ROOF SNOW LOAD, WHICHEVER IS GREATER. THIS VALUE, Pm, IS ONLY APPLIED IN COMBINATION WITH DEAD AND COLLATERAL LOADS. ROOF SNOW IN OTHER LOADING CONDITIONS IS DETERMINED PER THE SPECIFIED BUILDING CODE.

BLDG.	ROOF DEAD (psf) *	COLLATERAL DEAD Pri (psf) Sec (psf)	SNOW COEFFICIENT Ct Cs	SNOW LOAD Ps (psf) **Pm (psf)	WIND Enclosure GCpi	SEISMIC R Cs V (kips)
A	3.00	5.00 5.00	1.00 1.00	14.00 20.00	Enclosed +/-0.18	3.00 0.046 14.27
B	3.50	5.00 5.00	1.00 1.00	14.00 20.00	Enclosed +/-0.18	3.00 0.046 5.84

ENGINEER NOTES:

FOR OCCUPANCY (RISK) CATEGORY I OR II, IBC PROVISIONS INDICATE THAT SINGLE-STORY BUILDINGS SHALL HAVE "NO DRIFT LIMIT" PROVIDED THAT INTERIOR WALLS, PARTITIONS, CEILINGS, AND EXTERIOR WALL SYSTEMS HAVE BEEN DESIGNED TO ACCOMMODATE THE SEISMIC STORY DRIFTS. INTERIOR WALLS, PARTITIONS, CEILINGS, OR EXTERIOR WALL SYSTEMS NOT PROVIDED BY THE METAL BUILDING MANUFACTURER SHALL BE DESIGNED AND DETAILED BY OTHERS TO ACCOMMODATE THE SEISMIC STORY DRIFTS. SEISMIC DRIFT VALUES MAY BE OBTAINED FROM THE METAL BUILDING MANUFACTURER.

FRAMED OPENINGS HAVE BEEN DESIGNED TO SUPPORT WIND LOAD NORMAL TO THE WALL BASED ON THE STANDARD BUILDING CODE CRITERIA. FRAMED OPENINGS HAVE NOT BEEN DESIGNED FOR ANY ADDITIONAL MOMENT OR CATENARY FORCES FROM THE DOOR. ANY CHANGE TO THE INFORMATION SHOWN HERE WILL REQUIRE AN ENGINEERING INVESTIGATION AND POSSIBLE BUILDING REINFORCEMENT.

CONTENTS

SHEET NUMBER	DESCRIPTION
C1	COVER SHEET(S)
F1	ANCHOR ROD PLAN

BUILDING NAME DESIGNATION

A - MAIN ADDITION
B - DRIFT BAY ADDITION

PRIMER

STRUCTURAL FRAMING: GP - GRAY PRIMER
WALL SECONDARY: GP - GRAY PRIMER
ROOF SECONDARY: GP - GRAY PRIMER

ROOF PANELS

TYPE: 24 Ga. STANDING SEAM 360 (SS3)
HIGH SYSTEM w/ THERMAL SPACERS
COLOR: GALVALUME PLUS (GM)

WALL PANELS

TYPE: 26 Ga. REVERSE R-PANEL
COLOR: PEARL GRAY, PVDF (PG)

SOFFIT PANELS

TYPE: N/A
COLOR: N/A

LINER PANELS

TYPE: 26 Ga. R-PANEL
COLOR: POLAR WHITE, SP (PW)

TRIM COLORS

ROOF LINE TRIM: SLATE GRAY, PVDF (SG)
DOWNSPOUTS: SLATE GRAY, PVDF (SG)
WALL CORNER TRIM: SLATE GRAY, PVDF (SG)
BASE TRIM: SLATE GRAY, PVDF (SG)
FRAMED OPENING TRIM: SLATE GRAY, PVDF (SG)

NOTE: ANY VARIANCE FROM THE PANEL TYPES OR COLORS LISTED HERE WILL BE NOTED ON THE ELEVATION DRAWINGS.

THE BUILDING CODE REQUIRES CONSIDERATION OF SNOW SURCHARGES FOR ANY LOWER ROOF OF A STRUCTURE WITHIN 20 FT OF A HIGHER STRUCTURE. INFORMATION PROVIDED TO THE METAL BUILDING MANUFACTURER INDICATES SNOW SURCHARGES MUST BE CONSIDERED IN THE METAL BUILDING DESIGN AS SHOWN BELOW.

THE CONDITIONS AT THE FOLLOWING LOCATIONS PRODUCE DRIFT SURCHARGE LOADS:

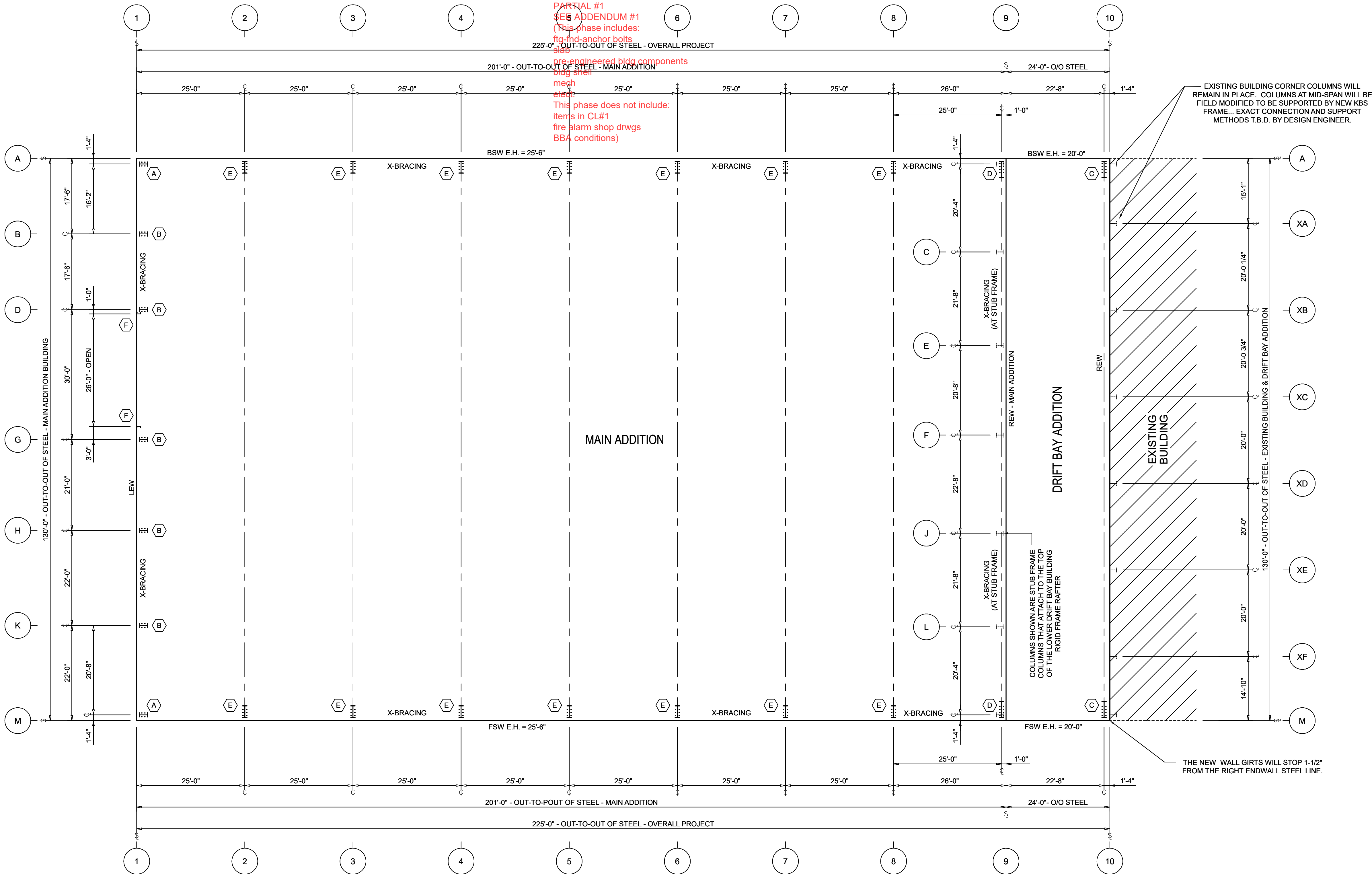
1. LOCATION: MAIN BLDG ONTO DRIFT BAY BLDG D(psf): 72.96 Pf(psf): 14.00 Wd(ft): 17.58

2. LOCATION: DRIFT BAY ONTO EXISTING BLDG D(psf): 19.20 Pf(psf): 14.00 Wd(ft): 9.25



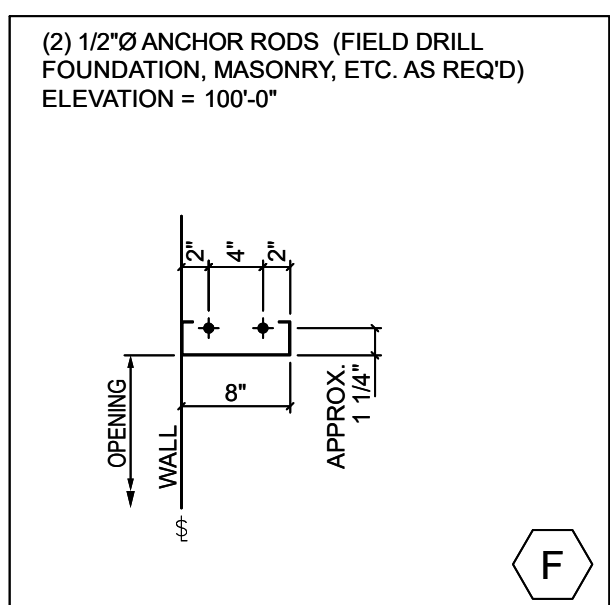
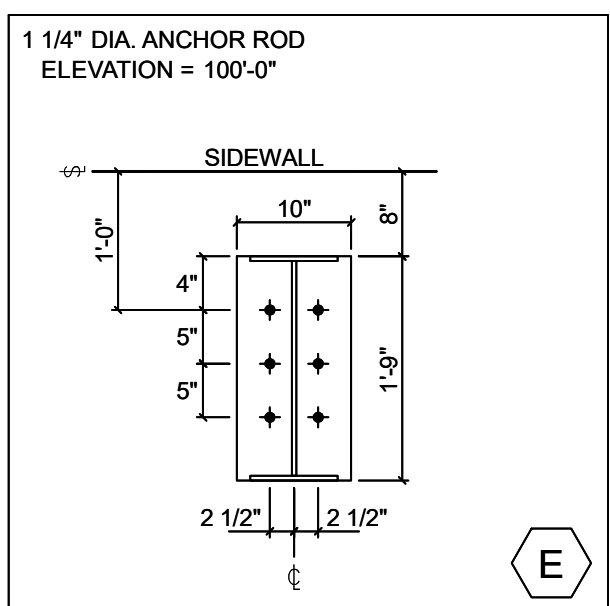
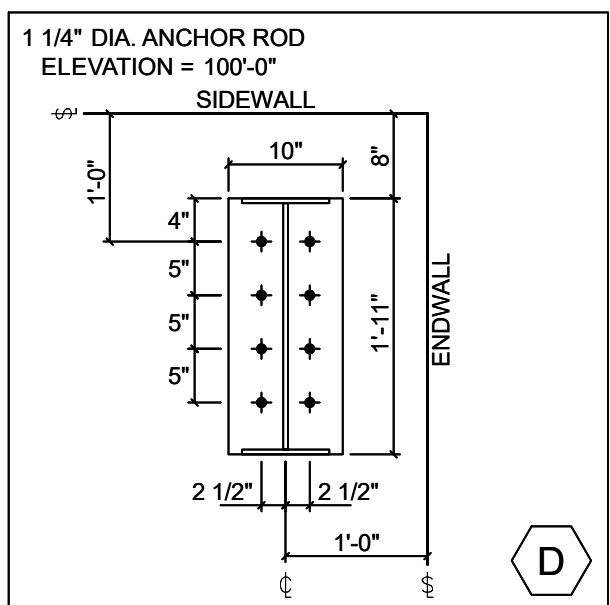
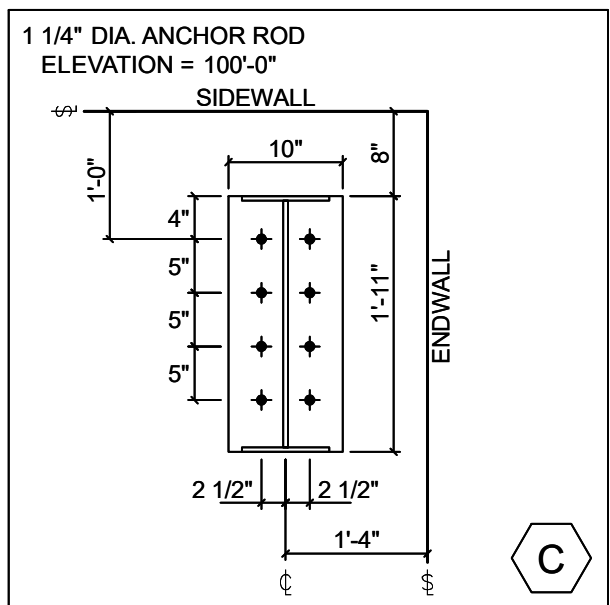
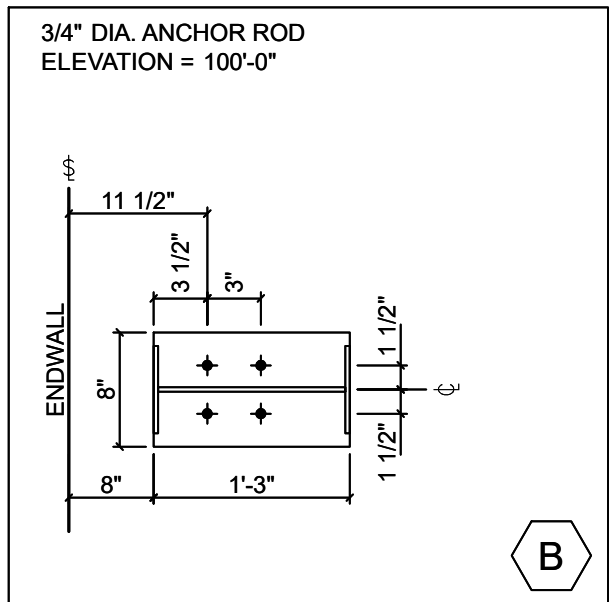
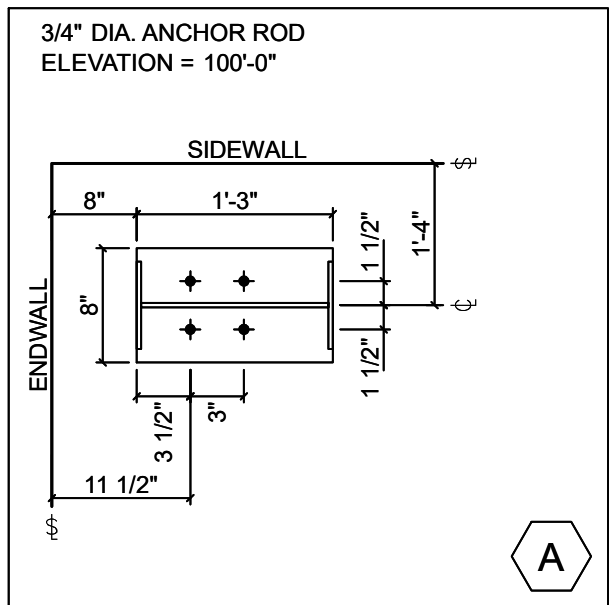
CPA 2023021965
OCTOBER 11, 2023
PARTIAL #1
SEE ADDENDUM #1

This phase includes:
1. Field anchor bolts
2. Pre-engineered bldg components
3. Bldg steel
4. Mech
5. Elec
6. This phase does not include:
7. Items in CL#1
8. Fire alarm shop drwgs
9. BBA (conditions)



ANCHOR ROD PLAN
NOTE: ALL BASE PLATES @ 100'-0" (U.N.)
FINISHED FLOOR @ 100'-0"

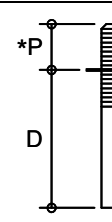
FINAL BASE PLATE LENGTHS MAY DIFFER +/- 2" FROM LENGTH SHOWN ON DETAILS. ANCHOR ROD LOCATIONS WILL REMAIN CONSISTENT U.N.O.



ANCHOR ROD PLAN GENERAL NOTES:
AN1: THE SPECIFIED ANCHOR ROD DIAMETER ASSUMES F1554 GRADE 36 UNLESS NOTED OTHERWISE. ANCHOR ROD MATERIAL OF EQUAL DIAMETER MEETING OR EXCEEDING THE STRENGTH REQUIREMENTS SET FORTH ON THESE DRAWINGS MAY BE UTILIZED AT THE DISCRETION OF THE FOUNDATION DESIGN ENGINEER. ANCHOR ROD EMBEDMENT LENGTH SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER.
AN2: METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR PROJECT FOUNDATION DESIGN. THE FOUNDATION DESIGN IS THE RESPONSIBILITY OF A REGISTERED PROFESSIONAL ENGINEER, FAMILIAR WITH LOCAL SITE CONDITIONS.
AN3: ANCHOR RODS, NUTS, FLAT WASHERS FOR ANCHOR RODS, AND CONCRETE/MASONRY EMBEDMENT PLATES ARE NOT BY THE METAL BUILDING MANUFACTURER.

AN4: THE ANCHOR ROD LOCATIONS PROVIDED BY THE METAL BUILDING MANUFACTURER SATISFY PERTINENT REQUIREMENTS FOR THE DESIGN OF THE MATERIALS SUPPLIED BY THE METAL BUILDING MANUFACTURER. IT IS THE RESPONSIBILITY OF THE FOUNDATION ENGINEER TO MAKE CERTAIN THAT SUFFICIENT EDGE DISTANCE IS PROVIDED FOR ALL ANCHOR RODS IN THE DETAILS OF THE FOUNDATION DESIGN.
AN5: DRAWINGS ARE NOT TO SCALE. SEE DETAILS FOR COLUMN ORIENTATION.
AN6: THE ANCHOR ROD PLAN INDICATES WHERE THE ANCHOR RODS ARE TO BE PLACED AS WELL AS THE FOOTPRINT OF THE METAL BUILDING. IT IS ESSENTIAL THAT THESE ANCHOR ROD PATTERNS BE FOLLOWED. IF THESE SETTINGS DIFFER FROM THE ARCHITECTURAL FOUNDATION PLANS, THE METAL BUILDING MANUFACTURER MUST BE CONTACTED IMMEDIATELY - BEFORE CONCRETE IS PLACED.

AN7: "SINGLE" CEE COLUMNS SHALL BE ORIENTED WITH THE "TOES" TOWARD THE LOW EAVE UNLESS NOTED OTHERWISE.
AN8: ALL DIMENSIONS ARE OUT TO OUT OF STEEL. IF A CONCRETE NOTCH IS REQUIRED THEN THE REQUIRED DIMENSION SHOULD BE ADDED TO OBTAIN THE OUT TO OUT OF CONCRETE DIMENSIONS.
AN9: FINISHED FLOOR ELEVATION = 100'-0" AND BOTTOM OF BASE PLATE = 100'-0" UNLESS NOTED OTHERWISE.

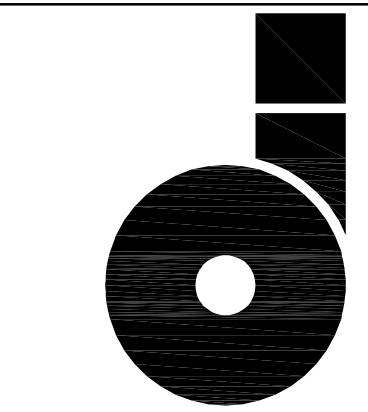
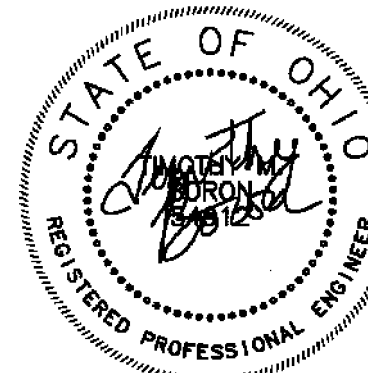
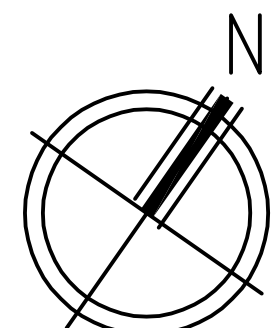


ANCHOR RODS				
QTY.	DIA.	MATERIAL	PROJECTION (+/-)	
28	3/4"	F1554 GR 36	3"	
116	1-1/4"	F1554 GR 36	3-1/2"	
	1-1/2"	F1554 GR 36	3-1/2"	

DESIGN
ENGINEER
DATE



This phase does not include:
items in CL#1
fire alarm shop drwgs
BBA conditions)



OMNESS DESIGN
140 FAIRFAX R
CONSULTANTS
4330

Addition to:
Rialto Manufacturing, Inc.
1632 Cascade Drive Marion, OH 43302

SHEET TITLE

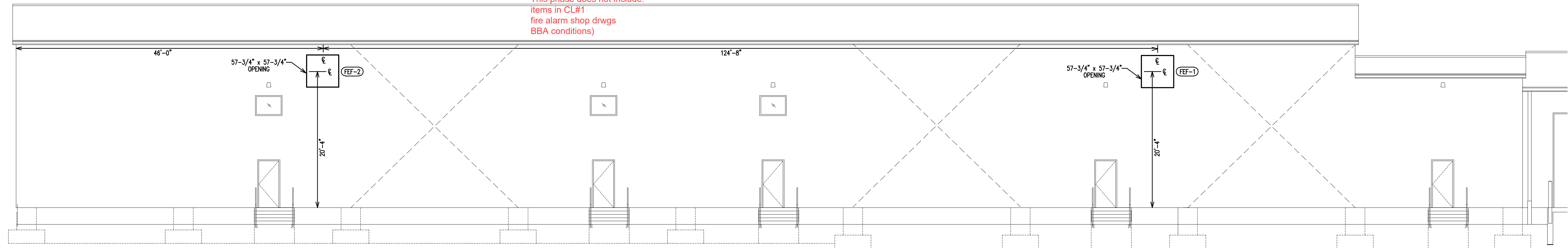
PARTIAL HVAC
FLOOR PLAN

[illegible]

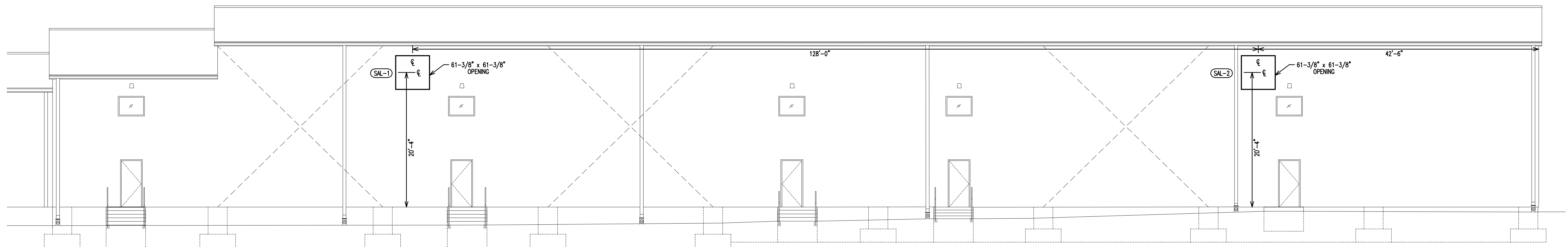
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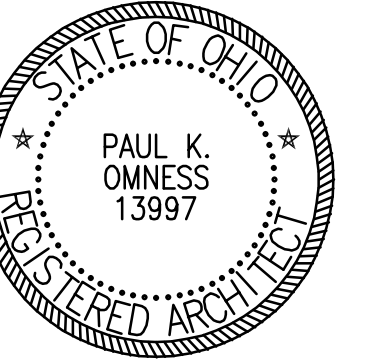
Partial Plan Approval
Examiner: W. Phillips
CPA 2023021965
OCTOBER 11, 2023
PARTIAL #1
SEE ADDENDUM #1
(This phase includes:
ftg-fnd-anchor bolts
slab
pre-engineered bldg components
bldg shell
mech
elect:
This phase does not include:
items in CL#1
fire alarm shop drwgs
BBA conditions)



North Elevation — Exhaust Fans
1/8" = 1'-0"



South Elevation — Supply Air Louvers
1/8" = 1'-0"



OMNESS DESIGN
140 FAIRFAX
SUITE 300, TAIN TON
43003

Addition to
Rialto Manufacturing, Inc.
1632 Cascade Drive Marion, OH 43302

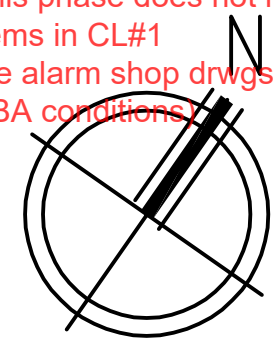
SHEET TITLE
HVAC
ELEVATIONS

MARK	DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
SI		SCHEMATIC DESIGN						
CD		CONSTRUCTION DOCUMENTS						
PROJECT	N022-113							
CAD DWG FILE	N022-113 Rialto							
DRAWN BY	PJD							
CHECKED BY	PJD							

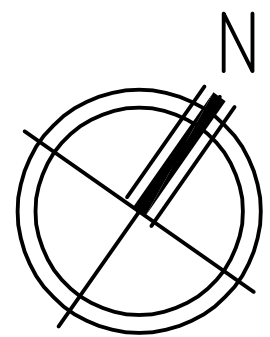
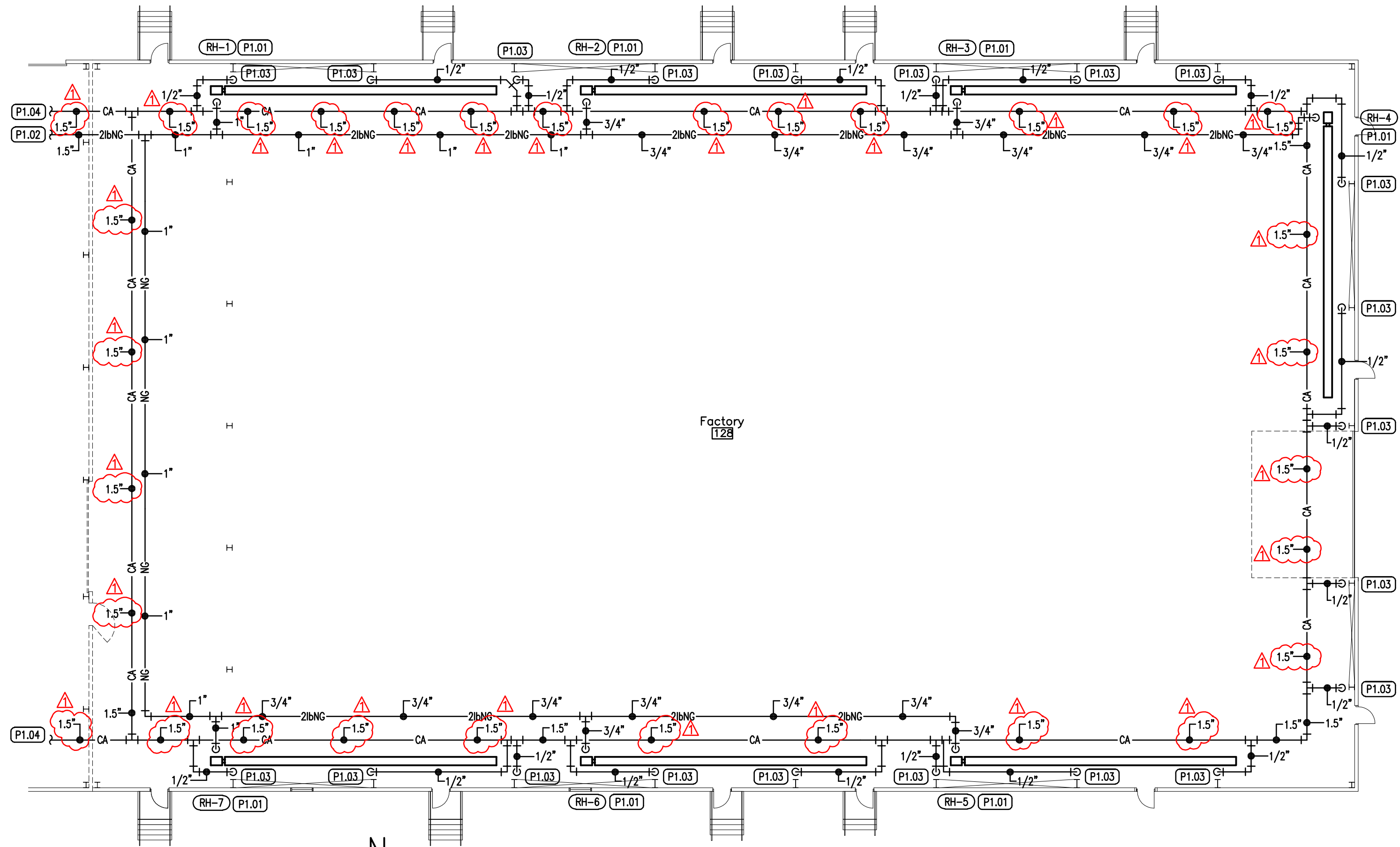
M 12

NATURAL GAS NOTE:
PLUMBING CONTRACTOR SHALL RECONFIGURE OUTLET SIDE OF GAS METER PIPING TO PROVIDE A 1.5" DEDICATED 216 PIPE TO BE RUN FOR ALL NEW NG FIRED HVAC EQUIPMENT ASSOCIATED W/ THE NEW ADDITION. IN ADDITION TO THE DEDICATED 216 PIPE, THE PLUMBING CONTRACTOR SHALL RECONNECT EXISTING LOW PRESSURE PIPE ASSOCIATED W/ THE EXISTING NG CONDITIONS. PLUMBING CONTRACTOR SHALL COORDINATE W/ THE GAS COMPANY TO PROVIDE A NEW GAS METER CAPABLE OF PROVIDING ADEQUATE NG TO FEED THE EXISTING AND NEW CONDITIONS.

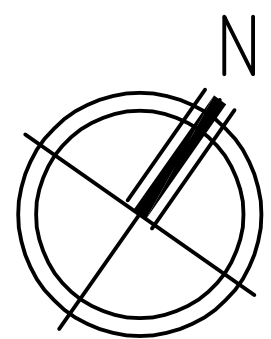
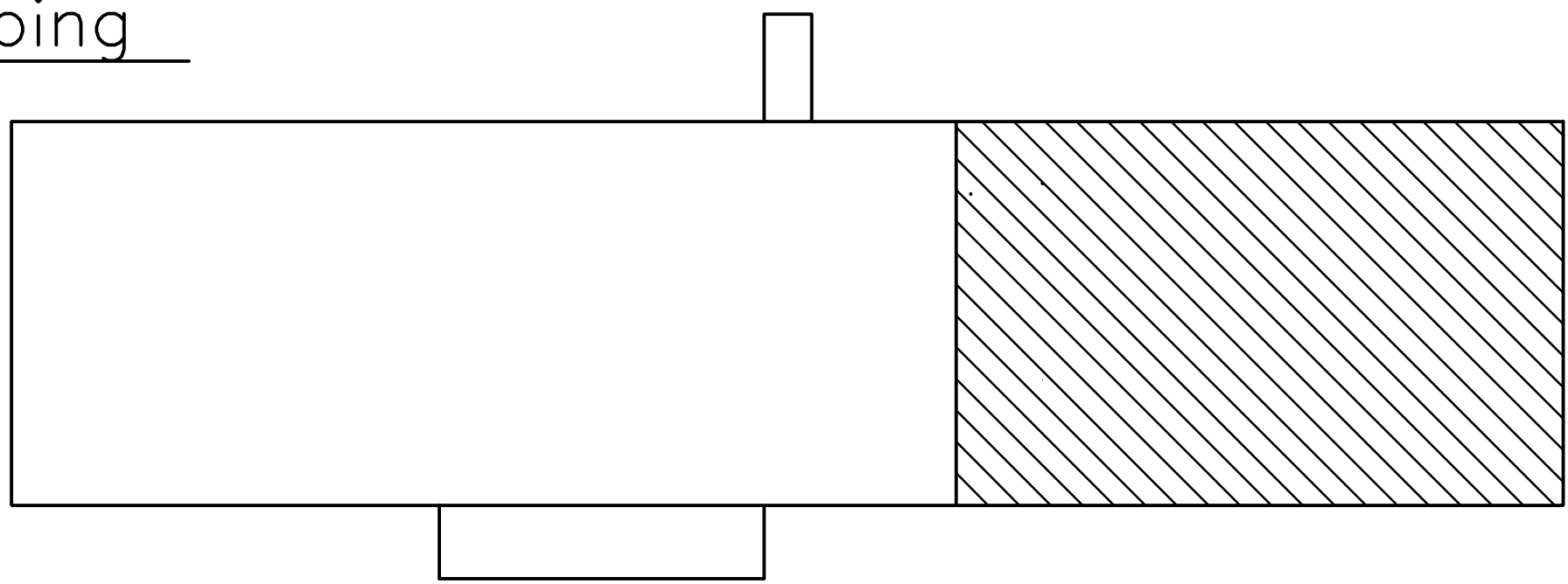
PA 43302 Approval
October 11, 2023
PARTIAL #1
SEE ADDENDUM #1
(This phase includes:
fig-and-anchor bolts
slab
pre-engineered bldg components
bldg shell
mech
elect
This phase does not include:
items in CL#1
fire alarm shop drags
BBA conditions)



Overall Floor Plan – Natural Gas
NO SCALE



Partial Floor Plan – Plumbing
1/16\" = 1'-0"



Key Plan
NO SCALE

NATURAL GAS CODED NOTES
(P1.01) 3/4\" 216 NATURAL GAS FROM CEILING SPACE DOWN TO RADIANT HEATER W/ GAS COCK, UNION, 6\" DRIP LEG & REGULATOR AS REQUIRED.
(P1.02) SEE OVERALL FLOOR PLAN – NATURAL GAS FOR CONTINUATION OF 1.5\" 216 NATURAL GAS LINE.
(P1.03) 1/2\" COMPRESSED AIR DROP W/ QUICK CONNECT FITTING AS REQUIRED.
(P1.04) MAKE 1.5\" COMPRESSED AIR CONNECTION TO EXISTING LINE AS REQUIRED.
(P1.05) 1.5\" 216 NATURAL GAS DOWN ON WALL AND MAKE CONNECTION AT EXISTING NATURAL GAS METER. SEE NATURAL GAS NOTE FOR MORE INFORMATION.



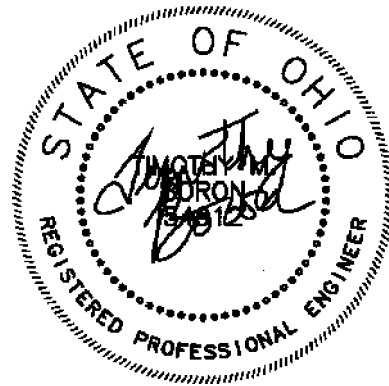
OMNESS DESIGN
140 FAIRFAX
MARION, OH 43021
43021

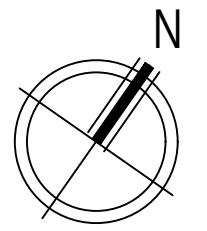
Addition to
Rialto Manufacturing, Inc.
1632 Cascade Drive Marion, OH 43302

SHEET TITLE
PARTIAL PLBG.
FLOOR PLAN

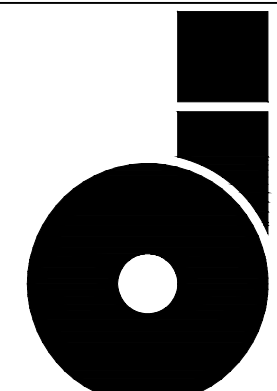
MARK	DATE	DESCRIPTION
1	2-21-23	REVISIONS
2	2-21-23	REVISED CA LOOP
3		SIZE PER OWNER
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PROJECT NR22-128
CAD DWG FILE NR22-128 Rialto Phase
DRAWN BY: P
CHECKED BY: P





1. ALL ELECTRIC WORK SHALL BE IN STRICT ACCORDANCE WITH CURRENT NEC, NFPA, ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AND LOCAL AUTHORITY HAVING JURISDICTION.	10. ALL WIRING TO BE A MINIMUM OF #12 AWG COPPER CONDUCTOR FOR POWER AND LIGHTING CIRCUITS UNLESS NOTED OTHERWISE. ALL WIRING TO BE COPPER TYPE THHN, XHHW, OR THWN, 600-V (75° C). ALUMINUM CONDUCTORS MAY BE USED FOR FEEDERS #1 SIZE AND LARGER.	18. EC SHALL SEAL AROUND ALL ELECTRICAL PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS.
2. CONCEAL ALL WIRING TO THE GREATEST EXTENT POSSIBLE.	11. MINIMUM 14 AWG CONDUCTOR FOR CONTROL CIRCUITS.	19. CONNECT ALL BATTERY-POWER EXIT AND EMERGENCY LIGHTS AHEAD OF SWITCH ON LIGHTING CIRCUIT IN AREA LOCATED.
3. FOR PURPOSES OF CLARITY AND LEGIBILITY, DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZE AND LOCATION OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL VERIFY THIS INFORMATION AT THE BUILDING SITE.	12. MINIMUM 10 AWG FOR HOME RUN CONDUCTORS AND 20 AMP 120-V BRANCH CIRCUITS LONGER THAN 100 FEET.	20. EC TO PROVIDE 1/2EMT CONDUIT FOR ALL OVERHEAD DOOR'S LOW VOLTAGE DEVICES AS DIRECTED BY OVERHEAD DOOR SUPPLIER. EC TO PROVIDE 1/2EMT EACH OVERHEAD DOOR LOW VOLTAGE DEVICE TO 10'-0" AFF AS DIRECTED BY OVERHEAD DOOR SUPPLIER. TERMINATE EACH END WITH PLASTIC BUSHINGS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS, ROUGH-IN/FINAL INSPECTION, ETC.	13. PULL ALL CONDUCTORS INTO RACEWAY AT SAME TIME.	21. ALL FIRE ALARM SYSTEM WORK AND DESIGN, IF REQUIRED, TO BE DONE BY OWNER'S FIRE ALARM SYSTEM CONTRACTOR.
5. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, OF THE BEST GRADE, AND INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.	14. IDENTIFICATION TAGGING IS REQUIRED ON ALL PANELBOARD, JUNCTION BOXES, RELAYS, DISCONNECT SWITCHES, STARTERS, CONTROL PANELS, PUSHBUTTONS, AND MISC. ELECTRICAL DEVICES INSTALLED BY CONTRACTOR. USE ENGRAVED LAMACOID LABEL, 1" WIDE BY 2" LONG MINIMUM. BLACK WITH WHITE LETTERS, MINIMUM 3/4" HIGH.	22. ALL TELEPHONE/DATA/CATV SYSTEM WORK AND DESIGN TO BE DONE BY OWNER'S TECHNOLOGY SYSTEM CONTRACTOR.
6. WORKMANSHIP AND MATERIALS TO BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE.	15. CONTRACTOR SHALL COORDINATE THE PROPER INSTALLATION OF ALL POWER WIRING AND TEMPERATURE CONTROL WIRING (INCLUDING INTERLOCKS AND STARTERS) WITH PROPER SUBCONTRACTORS AS REQUIRED FOR A COMPLETE WORKING SYSTEM.	23. ALL SECURITY, CCTV, & ACCESS CONTROL SYSTEM WORK AND DESIGN TO BE DONE BY OWNER'S SECURITY SYSTEM CONTRACTOR.
7. ALL CONDUITS TO CONTAIN A GROUND WIRE SIZED PER TABLE 250-122.	16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING A PROPERLY-RATED LOCAL DISCONNECT SWITCH ON ALL ITEMS OF ELECTRICAL EQUIPMENT WHICH DO NOT HAVE AN INTEGRAL LOCAL DISCONNECTING MEANS, WHETHER OR NOT SPECIFICALLY SHOWN ON THE DRAWINGS. WHERE REQUIRED BY N.E.C. LOCAL DISCONNECT SHALL BE FUSIBLE OR HACR-RATED.	24. ALL PUBLIC ADDRESS SYSTEM WORK AND DESIGN TO BE DONE BY OWNER'S PUBLIC ADDRESS SYSTEM CONTRACTOR.
8. MINIMUM CONDUIT SIZE SHALL BE 3/4" FOR EMT OR PVC U.N.O. ALL WIRING SHALL BE INSTALLED IN POLYVINYL CHLORIDE (PVC) OR ELECTRIC METALLIC TUBING (EMT) CONDUIT. MC CABLE MAY BE USED FOR BRANCH CIRCUIT WIRING WHERE CONCEALED IN ACCORDANCE WITH NEC, BUT ALL HOMERUNS SHALL BE IN CONDUIT.	17. PANEL AND ELECTRICAL EQUIPMENT LOCATIONS SHALL BE COORDINATED WITH ALL CONTRACTORS PRIOR TO INSTALLATION TO INSURE THE INSTALLATION IS IN STRICT ACCORDANCE WITH ALL WORKING SPACE & DEDICATED ELECTRICAL SPACE REQUIREMENTS PER N.E.C. ART. 110.	25. SCOPE OF WORK ONLY INCLUDES THE AREAS AND ITEMS OF WORK AS SHOWN. IT SPECIFICALLY EXCLUDES ANY CODE VIOLATIONS OUTSIDE THE SCOPE OF WORK. ELECTRICAL CONTRACTOR SHALL BRING ANY CODE VIOLATIONS OR SERIOUS HAZARDOUS CONDITIONS, WHICH ARE FOUND, TO THE ATTENTION OF THE OWNER & ENGINEER SO THAT CORRECTIVE ACTION CAN BE TAKEN.
9. EXTEND RACEWAYS PARALLEL AND PERPENDICULAR TO STRUCTURAL MEMBERS AND SURFACE CONTOURS AS MUCH AS IS PRACTICAL.		



Addition to
Rialto Manufacturing, Inc.
1632 Cascade Drive Marion, OH 43302

Power Partial Floor Plan

[illegible]SHEET 22 OF 26



This phase does not include:
items in CL#1
fire alarm shop drwgs
BBA conditions)

THE TOTAL LOAD SHOWN ABOVE IS 287.0. THEREFORE THE EXISTING 600 AMP SERVICE FOR EXISTING PANEL "MDP-1" IS SUFFICIENT TO HANDLE THE NEW ELECTRICAL LOADS.



LOADS:	<u>A = 10,204W</u>	<u>B = 8,868W</u>	<u>C = 8,478W</u>
TOTAL LOAD:	<u>3 X PHA = 30,612W</u> <u>= 37 AMPS @ 277/480 VOLTS, 3PH, 4W</u>		

LOADS:	<u>A = 3,432W</u>	<u>B = 2,958W</u>	<u>C = 2,568W</u>
TOTAL LOAD:	<u>3 X PHA = 10,296W</u>		
	<u>= 29 AMPS @ 120/208 VOLTS, 3PH, 4W</u>		

Rialto Manufacturing, Inc.

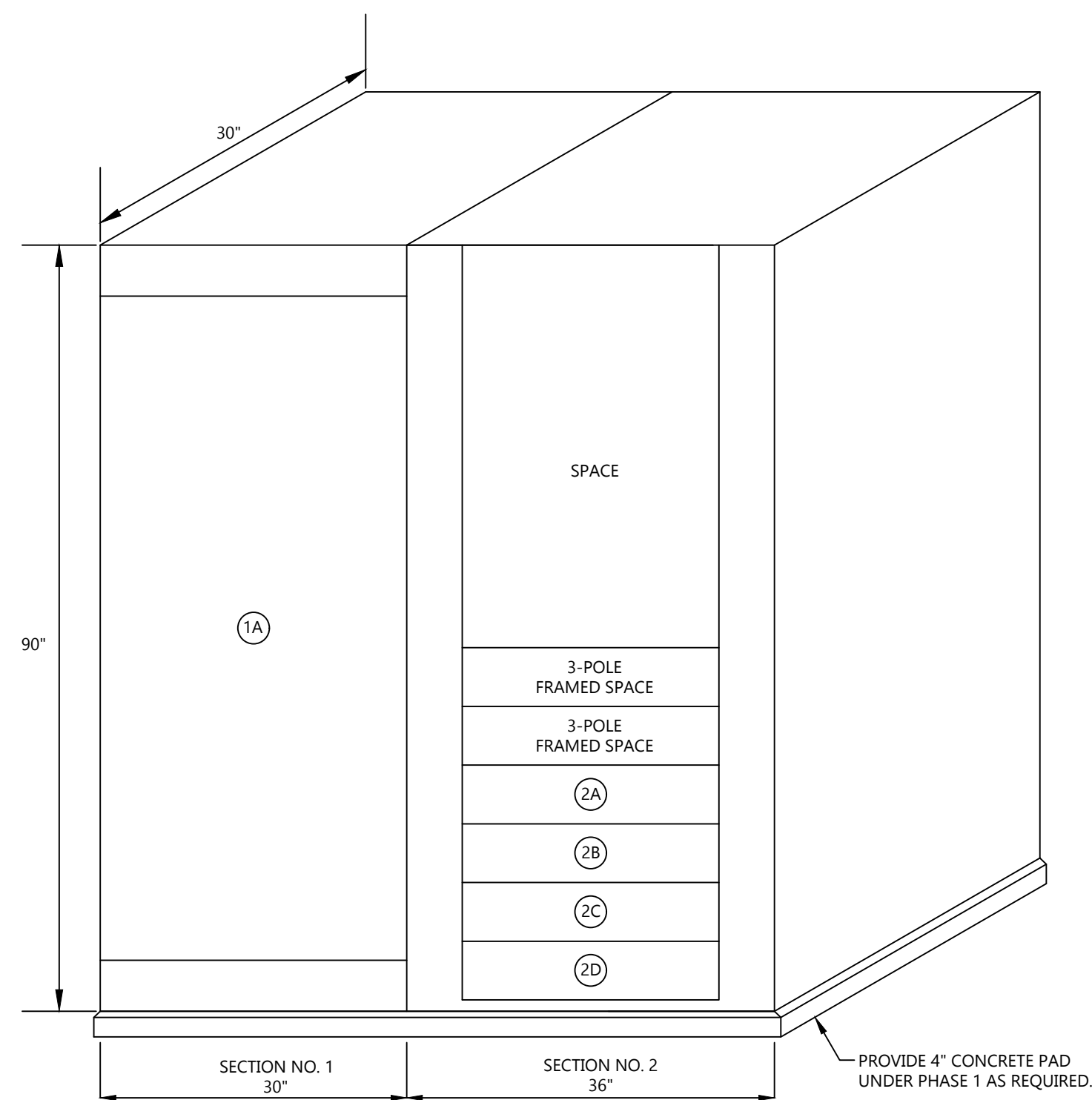
1632 Cascade Drive

Panelboard Sched.
Existing Single
Line Diagram

ISSUE: 8-7-23

CAD DWG FILE: 22-113 Rialto
DRAWN BY: PO
CHECKED BY: PO

SHEET 24 OF 26



N.T.S.

STATION: 100

DATE: 11/11/2018

PANEL: NEW PANEL "LC"

TYPE: NEMA 1

MOUNTING: SURFACE

FEATURES: ☒ GROUND BUS

☒ SOLID NEUTRAL

☒ MAIN CIRCUIT BREAKER

SERVICE: 150 AMPS

120/208 VOLTS

3 PHASE

4 WIRE

60 HZ

A.I.C.

LOAD	WIRE SIZE	CB/P	CIRC. NO.	A B C	CIRC. NO.	CB/P	WIRE SIZE	LOAD
- SPARE	10	20/1	1	●	2	20/1	-	SPARE
- SPARE	10	20/1	3	●	4	20/1	-	SPARE
- SPARE	12	20/1	5	●	6	20/1	-	SPARE
- SPARE	12	20/1	7	●	8	20/1	-	SPARE
- SPARE	12	20/1	9	●	10	20/1	-	SPARE
- SPARE	12	20/1	11	●	12	20/1	-	SPARE
- SPARE	-	20/1	13	●	14	20/1	-	SPARE
- SPARE	-	20/1	15	●	16	20/1	-	SPARE
- SPARE	-	20/1	17	●	18	20/1	-	SPARE
- SPARE	-	20/1	19	●	20	20/1	-	SPARE
- SPARE	-	20/1	21	●	22	20/1	-	SPARE
- SPARE	-	20/1	23	●	24	20/1	-	SPARE
- SPARE	-	20/1	25	●	26	20/1	-	SPARE
- SPARE	-	20/1	27	●	28	20/1	-	SPARE
- SPARE	-	20/1	29	●	30	30/1	-	SPARE
- SPARE	-	20/1	31	●	32	20/1	-	SPARE
- SPARE	-	20/1	33	●	34	20/1	-	SPARE
- SPARE	-	20/1	35	●	36	20/1	-	SPARE
- SPARE	-	20/1	37	●	38	20/1	-	SPARE
- SPARE	-	20/1	39	●	40	20/1	-	SPARE
- SPARE	-	20/1	41	●	42	20/1	-	SPARE

LOADS: A = 3,924W

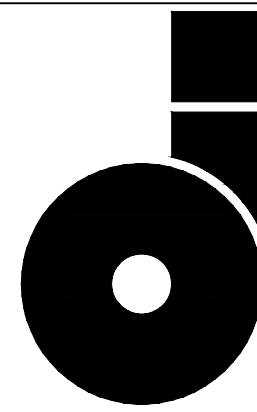
B = 1,764W

C = 2,124W

TOTAL LOAD: 3 X PHA = 11,772W

= 33 AMPS @ 120/208 VOLTS, 3PH, 4W

NOTES:
1.



OMNESS DESIGN, INC.
140 FAIRFAX ROAD
MARION, OHIO 43302
CONSULTANTS

Addition to
Rialto Manufacturing, Inc.
1632 Cascade Drive Marion, OH 43302

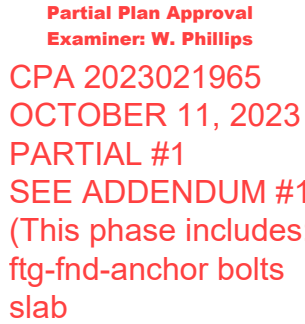
SHEET TITLE

Panelboard Sched. New Single Line Diagram

[illegible]

E 3.2

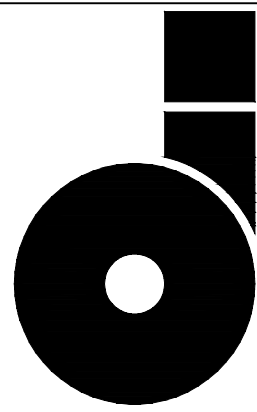
SHEET 25 OF 26



pre-engineered bldg components	
bldg shell	
mech	
elect:	

- CTIONS TO BIDDERS OF
OF THE WORK ARE
items in CL#1
fire alarm shop drawg
TOOLS, EQUIPMENT
BFA (conditions)

OUTLET ELEVATION	
LIGHTING SWITCHES	4'-0" ABOVE FINISHED FLOOR TO CENTERLINE
RECEPTACLE OUTLETS IN OFFICES AND FINISHED AREAS	2'-0" ABOVE FLOOR TO CENTERLINE. COORDINATE MOUNTED HEIGHTS WITH OWNER PRIOR TO ROUGH-IN.
LIGHTING PANELBOARDS	6'-8" FROM TOP OF PANEL TO ABOVE FINISHED FLOOR.
FIRE ALARM PULL STATION	4'-0" ABOVE FINISHED FLOOR TO CENTERLINE
FIRE ALARM HORN/STROBE OR STROBE ONLY DEVICES	6'-8" ABOVE FINISHED FLOOR OR 6" BELOW FINISHED CEILING TO CENTERLINE.
EMERGENCY LIGHT OUTLETS	8'-0" ABOVE FINISHED FLOOR TO CENTERLINE
EXIT LIGHT OUTLETS	0'-8" BELOW FINISHED CEILING TO CENTERLINE
BRACKET AND SPECIAL OUTLETS	AS INDICATED ON DRAWINGS



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SHEET TITLE

Electrical Specification

[illegible]

PROJECT NO:	22-113
CAD DWG FILE:	22-113 Rialto
DRAWN BY:	PO
CHECKED BY:	PO

E 3.3