

August 2, 2018

Ms. Barcy F. McNeal, Secretary
Ohio Power Siting Board
Docketing Division
180 East Broad Street, 11th Floor
Columbus, OH 43215

**Re: Case No. 13-197-EL-BGN, 16-1687-EL-BGA, and 17-1099-EL-BGA
Trishe Wind Ohio, LLC
Notification of Compliance with Condition 9 of the Supplement—Federal & State
Permits**

Dear Ms. McNeal:

Trishe Wind Ohio, LLC (“Applicant”) is certified to construct a wind-powered electric generation facility in Paulding County, Ohio (“Project”), in accordance with the December 16, 2013 Opinion, Order, and Certificate (“Certificate”) issued by the Ohio Power Siting Board (“OPSB”). The Certificate is subject to the 40 conditions set forth in the December 16, 2013 Order, as well as the 26 conditions set forth in the October 1, 2013 Supplement to the original application (“Supplement”).

Condition 9 of the Supplement requires the Applicant to obtain and comply with any permits or authorizations required by federal or state laws and regulations. The Applicant is providing this letter to notify the OPSB that it has been issued its Paulding County Health Department Private Water System permit, which is attached hereto. In addition, it has received approval via permit from the Ohio Department of Commerce regarding its electric plan, which is also attached hereto.

We are available, at your convenience, to answer any questions you may have.

Respectfully submitted,

/s/ William V. Vorys

William V. Vorys (0093479)

Christine M.T. Pirik (0029759)

Terrence O'Donnell (0074213)

Dickinson Wright PLLC

150 East Gay Street, Suite 2400

Columbus, Ohio 43215

Phone: (614) 591-5461

Email: wvorys@dickinsonwright.com

cpirik@dickinsonwright.com

todonnell@dickinsonwright.com

Enclosure

Attorneys for Trishe Wind Ohio, LLC



Providing Community Health Direction

Paulding County Health Department & WIC

800 East Perry Street
Paulding, Oh 45879
Phone 419-399-3921
www.pauldingcountyhealth.com

Toll Free 1-866-399-3921
WIC Dept. 419-399-2621
Fax: 419-399-3494
Email: paulcohd@odh.ohio.gov

May 15, 2018

Permit: 2018-008 APPROVED

Layman Well Drilling
Dennis Layman
10879 SR 500
Paulding, OH 45879

RE: Private Water System: **11874 SR 114**

Dear Layman Well Drilling,

Enclosed is your copy of the Paulding County Health Department Private Water System permit for Terry Baker:

PERMIT #2018-008

11874 RD 114 Haviland, OH 45851, Blue Creek Township, Section #23

The permit is valid for one year from the approval date (05/14/2018 thru 05/14/2019).

Reminder:

WELL LOG must be forwarded to our office within 30 days of the well being drilled and/or altered.

SEALING REPORT must be forwarded to our office within 30 days of the well being sealed.

NOTIFICATION must be made to the Health Department of Completion Status within 10 days.

Private Water System Well Completion form. Shall be completed and submit within 30 days of Notification.

If I can be of any further assistance, please feel free to contact the health department at 419-399-3921. Thank you for your cooperation.

Sincerely,

Carol Sanford, RS.
SANITARIAN

County / City Paulding Co.	Local Fee 351.00	State Fee 74.00	Total Fee Owed \$445.00	Receipt # 86761	Permit # 2018-008
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OHIO DEPARTMENT OF HEALTH APPLICATION/PERMIT FOR A PRIVATE WATER SYSTEM

NOTE: Read the application instructions on the next page.
Complete form as directed. Form may be completed on the computer then printed or printed and completed by pen or typewriter.

CHECK ALL BOXES, IN THIS SECTION, THAT APPLY TO THE PERMIT REQUEST.

Type of Work: <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration (includes expanding existing systems) <input type="checkbox"/> Emergency Construction <input type="checkbox"/> Sealing Only <input type="checkbox"/> Test Well	<input type="checkbox"/> Replacement System <input type="checkbox"/> Emergency Alteration <input type="checkbox"/> Conversion to a PWS	System will Serve: <input type="checkbox"/> Single family dwelling <input type="checkbox"/> Two or Three family dwelling <input type="checkbox"/> Multiple dwelling units* <input checked="" type="checkbox"/> Building* (includes MHPs / Campgrounds)	Type of PWS or Component: <input checked="" type="checkbox"/> Well <input type="checkbox"/> Pond* <input type="checkbox"/> Hauled Water Tank <input type="checkbox"/> Continuous Disinfection <input type="checkbox"/> Other _____	System being Sealed: <input type="checkbox"/> Well <input type="checkbox"/> Cistern <input type="checkbox"/> Hauled Water Tank <input type="checkbox"/> Pond <input type="checkbox"/> Spring
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☐ **Public Water Supply** is being connected to the residence ☐ **Geothermal system** exists or is planned for this property

***NOTE:** If the private water system will serve other than a one, two, or three family dwelling, detailed plans must also be submitted in compliance with rule 3701-28-03 (E) of the Ohio Administrative Code. See site plan addendums for ponds, springs, cisterns, multiple dwelling units, and buildings.

COMPLETE THE FOLLOWING INFORMATION

Property Street Address or Location (include City and Zip Code) 11874 SR 144 Haviland Oh 45851		Parcel # (optional)	Township/City/Village Blue Creek
Owner's Name Starwood Energy Group Global LLC	Owner Mailing Address (Street #, Street, City, State, Zip Code) 5 Greenwich Office Park Floor 2nd Greenwich, CT 06831		Phone # 203-422-7700

☐ Check this box if the Owner and Applicant Information is the same. If checked do not fill in applicant information.

Applicant's Name Brian Martin MBA Energy & Industrial	Applicant Mailing Address (Street #, Street, City, State, Zip Code) 33126 Magnolia Circle Ste. 200 Magnolia, TX 77354	Phone # 832-299-4844
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All persons, including homeowners, performing work on a private water system must be registered with the Ohio Department of Health as required in Ohio Administrative Code Rule 3701-28-18(A). If the contractor information is not known at time of application, it must be provided prior to the commencement of work as per the requirements in Ohio Administrative Code Rule 3701-28-03(A)(1).

Private Water Systems Contractor Layman Drilling LLC	ODH Registration #	Phone # 260-494-7741
Private Water Systems Contractor	ODH Registration #	Phone #
Private Water Systems Contractor	ODH Registration #	Phone #

Notice to Applicant: This application will not be processed until the form bears the signature of the applicant and the date (below). This application must be accompanied by the site plan form(s) and the appropriate fee. This application is not approved until it has the date and signature of a registered sanitarian or sanitarian-in training employed by the local board of health.

- I, the undersigned, hereby agree to install, construct, develop or alter the private water system named in this permit application in accordance with the attached site plan and all applicable rules governed by Chapter 3701-28 of the Ohio Administrative Code.
- I, the undersigned, also understand that the issuance of this permit is conditioned upon the right of the department to enter upon the premises of the private system named in this permit at any reasonable time prior to, during, or after completion of the work specified in this permit for the purpose of determining compliance with Chapter 3701-28 of the Ohio Administrative Code.
- I, the undersigned, agree to contact the local health department upon completion of the private water system in order for the local health department to perform the final inspection and collect the water sample.
- I, the undersigned, understand that this permit will expire one (1) year from the date approved and all work must be completed by that date.

APPLICANT'S SIGNATURE <i>Brian Martin</i>	DATE OF SIGNATURE 3/23/2018
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READ THE INSTRUCTIONS ON THE NEXT PAGE, THEN COMPLETE THE SITE PLAN FORM

County / City

Paulding

Permit #

2018-008

OHIO DEPARTMENT OF HEALTH

APPLICATION/PERMIT FOR A PRIVATE WATER SYSTEM

SITE PLAN

Property Address

11874 SR 114 Haviland, OH 45851

Owner / Applicant

Starwood Energy Group Global LLC

Brian Martin

MBA Energy & Industrial

Prepared by

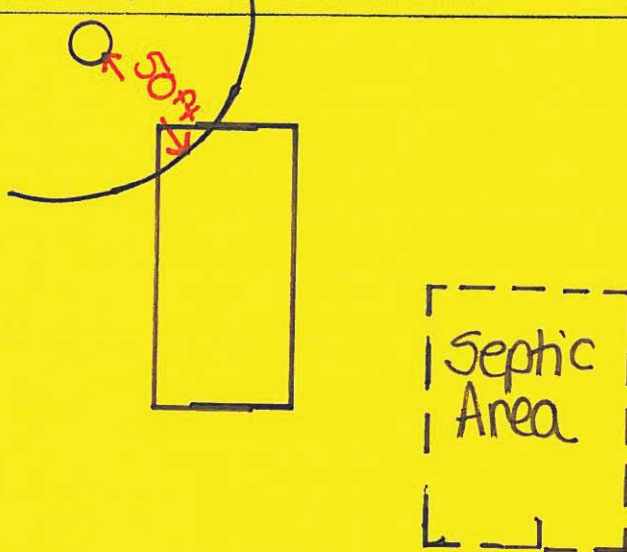
Brian Martin

A site plan addendum form will be required in addition to this site plan form if this private water system permit request is being obtained for:

- 1) any private water system servicing greater than a three family dwelling, or a building;
- 2) any private water system servicing a pond, cistern, spring, or private water system located in an area of known flowing well conditions.

SITE PLAN DRAWING
☒ Check this box if the drawing is supplied on a separate sheet.

- Clearly indicate the location of all proposed and existing private water systems.
- Clearly indicate all possible sources of contamination from the list to the right, including but not limited to the house, the sewage system and the driveway.
- Clearly indicate the north direction, property lines, roads and road intersections.



SR 114

Comments

LIST OF POTENTIAL CONTAMINATION SOURCES.

Write the distance from the proposed private water system location to the source listed below, if applicable. The minimum distance requirements are indicated in () to the right of the source.

All distances must be specific to the private water system.

- | | | |
|---------------|----|---|
| 34 | ft | House, Building (10ft) |
| 10 | ft | Property lines (10 ft) |
| 10 | ft | Existing or properly sealed water wells (10 ft) |
| | ft | Road right-of-ways and road utility easements (10 ft) |
| | ft | Public Roadways (25 ft) |
| 47 | ft | Driveway or parking lot (5 ft) |
| | ft | Sewer - watertight (10 ft) |
| | ft | Sewage tanks, sewage absorption fields and watertight vault privies (50 ft) |
| | ft | Leaching privies, leaching pits, dry wells, or drainage wells (100 ft) |
| | ft | Unregulated constructed wells or boreholes (50ft) |
| | ft | Geothermal systems (50 ft) |
| | ft | Streams, lakes, ponds (25 ft) |
| | ft | Storm water and other ditches with intermittent water flow (15 ft) |
| 15 | ft | Natural gas or propane tanks (20 ft) |
| | ft | Fuel oil, diesel, chemical, gasoline and other petroleum liquid tanks (50 ft) |
| | ft | Oil and gas wells (100 ft) |
| | ft | Landfills (1000 ft) |
| | ft | Construction and demolition debris facility (500 ft) |
| | ft | Agricultural manure ponds, lagoons, or piles (50-300 ft) |
| | ft | Other: _____ |

Please refer to OAC 3701-28-07 for additional required distances.

County / City.
Paulding

Permit #
2019-008

HEALTH DEPARTMENT USE ONLY

This permit is not valid without the sanitarian signature, approval date, and audit number.

Is a variance being requested prior to the permit being issued?

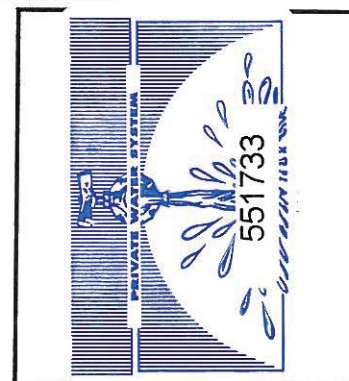
☐ Yes If checked yes, complete the variance section on the Administrative Summary.

APPLICATION APPROVED BY (RS or SIT Only) Carol Sanford, RS.	DATE APPROVED Permit expires one (1) year from this date. 5/14/2018
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PERMIT EXTENSION

Approved By	Date Approved	Date Extension Expires

See comments on the Administrative Summary



APPLICATION INSTRUCTIONS

1. This is a two part form: APPLICATION and SITE PLAN
2. The form may be completed:
 - a. By computer, then printing; or
 - b. By printing the blank document, and filling all information with a typewriter or pen;
3. Contact the Local Health Department for the following information:
 - a. Fee information;
 - b. Site Plan completion information (some local health districts require staff to complete site plans);
 - c. Rule information.
 - d. Registered private water system contractor information.
 - i. A complete list of registered private water system contractors is available on the Ohio Department of Health website at <http://www.odh.ohio.gov/odhPrograms/eh/water/water1.aspx>.
4. The applicant must sign and date the application prior to submitting to the Local Health District.
5. The applicable FEES must accompany all applications when submitting to the Local Health District. Applications will not be processed until all fees have been received by the Local Health District.
6. The Local Health District will review the application and site plan and notify you as to the application's status.
7. Contact the Local Health District if you do not receive information about the application status within fifteen (15) business days of submitting the application.



Corporate HQ: Houston, TX
www.mbaconstruction.net
33126 Magnolia Circle
Magnolia, TX 77354
832-299-4844

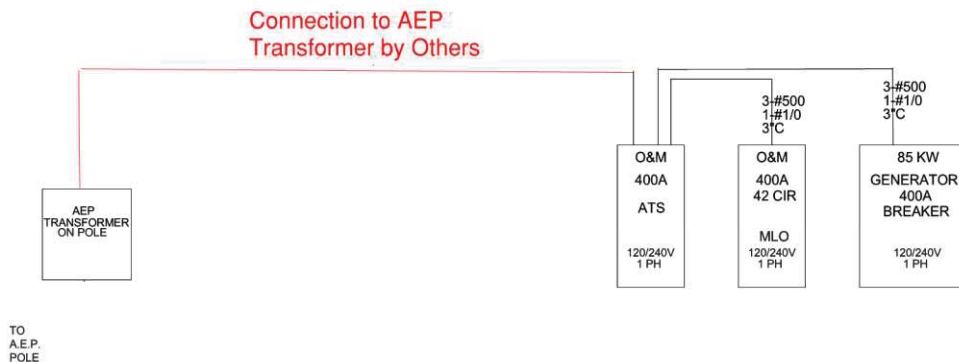
Build-to-Print | Design-Build | Construction Management

To: Jeff Lasko
Project Address: 11874 SR 114 Haviland, OH

Date:	6/22/2018
Plan Number#:	2018020527; Sheet E300
ATTN:	Jeff Lasko
RE:	NW OH Wind O&M Facility Electrical Service

Mr. Lasko,

Pursuant to our conversation earlier today, this letter serves as formal instruction that the Electrical Service between the AEP Transformer on Pole and the O&M 400 Amp Panel are by others. Please see illustration below:



2 UTILITY RISER DIAGRAM

12" = 1'-0"

Please let us know if you have any questions or recommendations regarding the matter.
Thank you

Date: 6/22/2018
Signed: Brad Christensen
Title: Project Manager



Plan Revision Approval
Examiner: J. Lasko

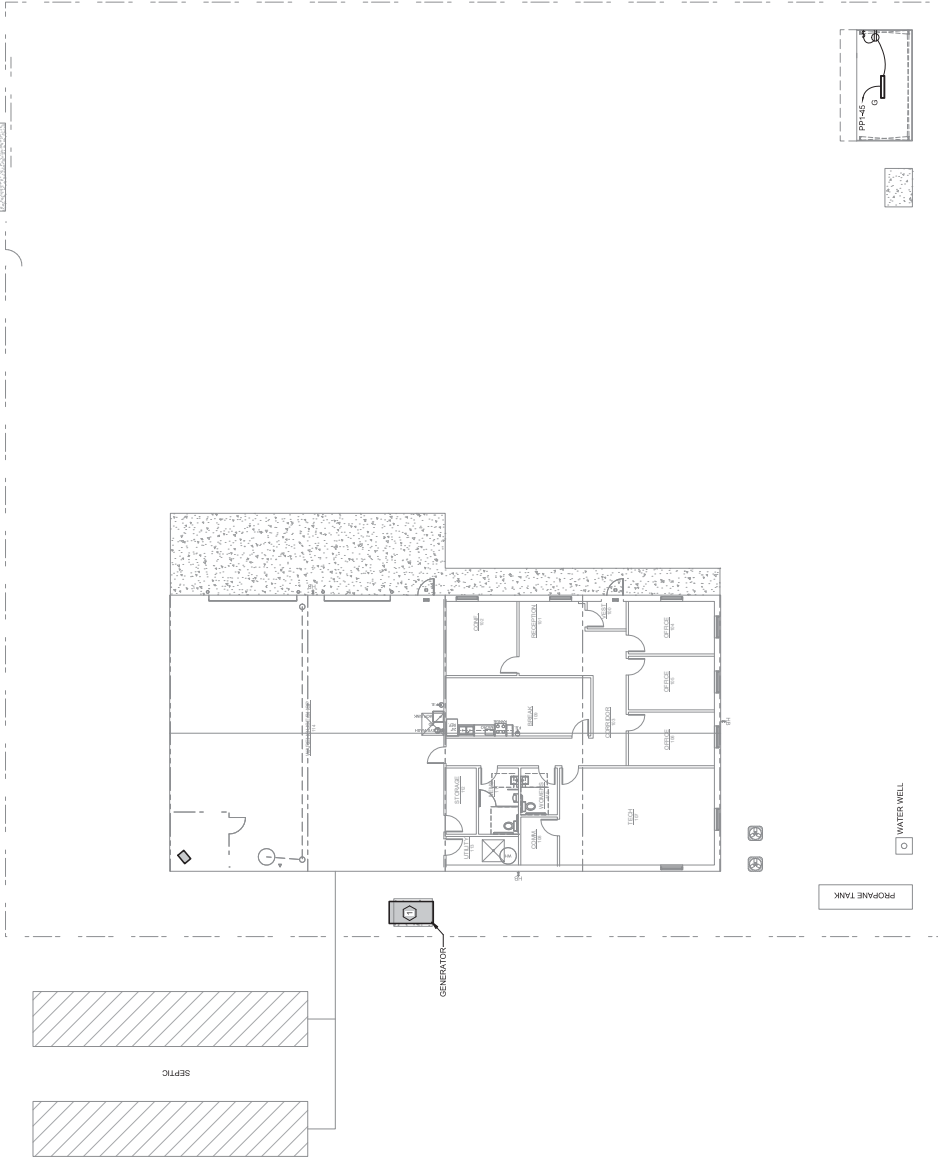
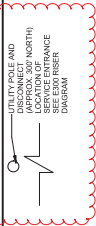
CONFIDENTIALITY NOTICE: This document, including any attachments or reference information, contains information that is privileged, confidential or intended only for the use of the above-named recipient. If the reader of this document is not the intended recipient, you are hereby notified that any dissemination, distribution, printing or copying of this document is prohibited. If you have received this document in error, please contact the sender by reply email and delete all copies of this document. Thank you.

SITE PLAN GENERAL NOTES

- A. PLAN REPRESENTS ENGINEERS PROPOSED DESIGN. COORDINATE LOCATION ALL UTILITIES WITH EXISTING UTILITIES AND ALL RELATED DEVICES AND EQUIPMENT WITH OWNER AND UTILITY.
- B. UNDERGROUND SITE WORK: CONTRACTOR IS REQUIRED TO USE LINE LOCATOR TO LOCATE ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGES TO ANY EXISTING UTILITY LINES CAUSED BY EXCAVATION AND SUBSEQUENT REPAIR OF UTILITY LINE DAMAGES.
- C. SPECIFIC LOCATIONS OF ALL UTILITIES DRAWINGS MUST BE PROVIDED SHOWING

KEYED NOTES

- 1. PROPOSED GENERATOR LOCATION. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.



1 ELECTRICAL SITE PLAN

3/20" = 1'-0"



Plus Associates
Examined: J. Leno

CPA # 2018028527 - May 30, 2018

IEA WHITE - HAVILAND
PALMING COUNTY, OH



SHEET		ELECTRICAL	
SITE PLAN		SITE PLAN	
REVISIONS		REVISIONS	
1	10/28/18	100%	ISSUED FOR PERMIT
2	10/28/18	100%	ISSUED FOR PERMIT

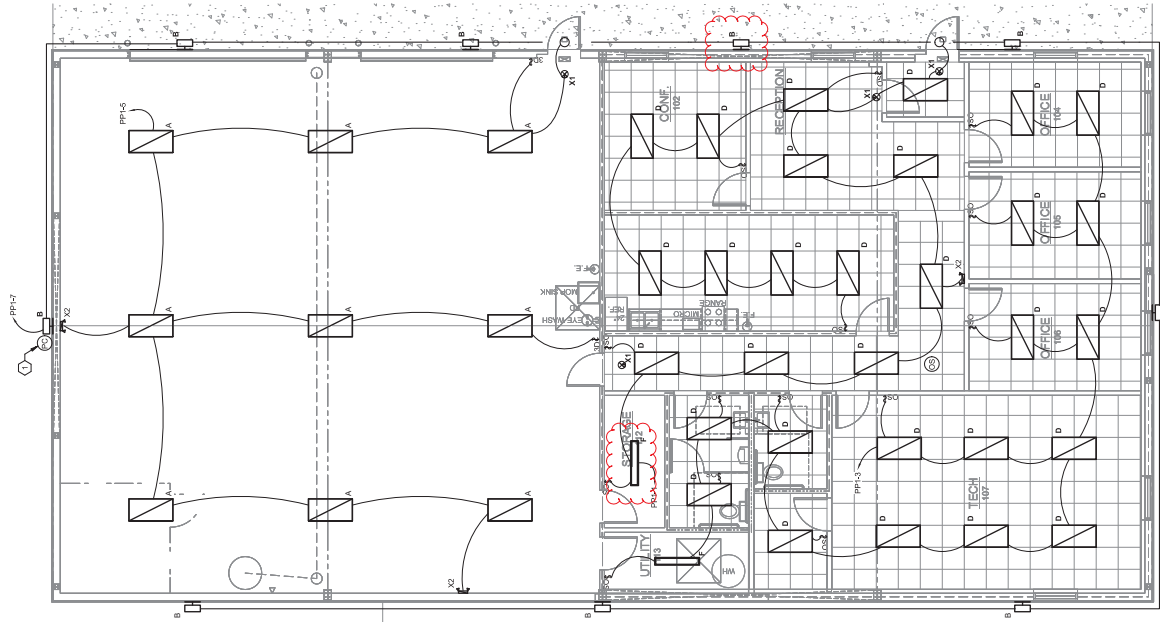
Checker	Designer
DATE	3/15/18
PROJECT	75000000
SHEET	E200

LIGHTING GENERAL NOTES

- A. REFER TO ARCH. REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL FIXTURES.
- B. VERIFY COLOR OF ALL FIXTURES WITH ARCHITECT/OWNER.
- C. DRAWINGS DO NOT SHOW DETAILS OF FIXTURE MOUNTING. ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY AND REQUIRED MOUNTING DETAILS TO THE ARCHITECT/OWNER.
- D. OPERATING SYSTEM, SLOPED CEILING, PROVIDE SLOPED CEILING ADAPTORS AS REQUIRED FOR ALL FIXTURES INSTALLED IN SUCH CEILING.
- E. ALL LAMPS ARE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. UNLESS SPECIFICALLY NOTED OTHERWISE (THIS APPLIES TO ALL NEW FIXTURES). REFER TO BUYER OF MATERIALS FOR SPECIFIC INSTRUCTIONS WITHIN THE SPECIFICATIONS FOR THE ELECTRICAL CONTRACTOR. NO ADDITIONAL COST TO THE OWNER (THIS APPLIES TO NEW FIXTURES ONLY). NOT REUSED/EXISTING FIXTURES.
- F. ALL FIXTURES SHALL BE FACTORY PAINTED-AFTER-FABRICATION TYPE.

KEYED NOTES

- 1. EXTERIOR LIGHTS TO BE CONTROLLED BY ACUTY #580-40BX-P OR EQUIVALENT PHOTOCELL.



1 LIGHTING PLAN
1/32" = 1'-0"



Plan Checked: J. L. Leno
Examiner: J. L. Leno

CPA #: 2018028527 - May 30, 2018



SHEET	
ELECTRICAL	
LIGHTING PLAN	
REVISIONS	
1	10/03/18 100% ISSUED FOR PERMIT
2	10/15/18 ISSUED FOR PERMIT

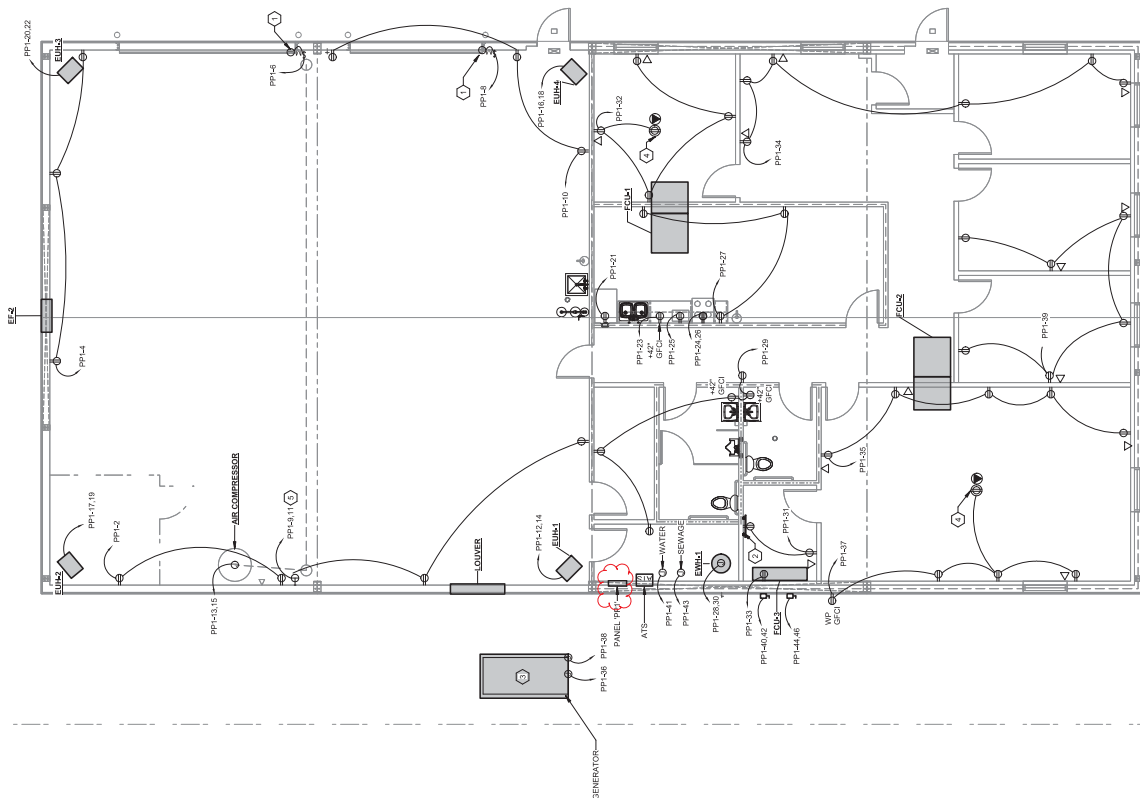
Checker	J. L. Leno
DATE	5/15/18
PROJECT	18000000
PERMIT	18000000
SHEET	E201

SITE PLAN GENERAL NOTES

- A. PLAN REPRESENTS ENGINEER'S PROPOSED DESIGN. COORDINATE LOCATION OF ALL UTILITIES, ELECTRICAL SERVICE AND ALL RELATED DEVICES AND EQUIPMENT WITH OWNER AND UTILITY.
B. UNDERGROUND SITE WORK: CONTRACTOR IS REQUIRED TO USE LINE LOCATOR TO IDENTIFY LOCATION(S) OF ALL EXISTING UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND REPAIRING ANY EXISTING UTILITY LINE DAMAGES CAUSED BY EXCAVATION AND SUBSEQUENT REPAIR OF UTILITY LINE DAMAGES.
C. RESULT OF UNDERGROUND UTILITY DRAWINGS MUST BE PROVIDED SHOWING SPECIFIC LOCATIONS OF ALL UTILITIES BURIED ON THE ENTIRE SITE.

KEYED NOTES

1. POWER CONNECTION FOR MAINS REQUIRED FOR ALL DOORS. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS UPON FINAL EQUIPMENT SELECTION PRIOR TO ROUGH-IN.
2. TELEPHONE TERMINAL BOARD: PROVIDE 8'X4'X3/4" THICK PLYWOOD BOARD. PRIOR TO INSTALLATION.
3. PROPOSED GENERATOR LOCATION. COORDINATE LOCATION WITH OWNER.
4. PRIOR TO INSTALLATION, REMOVE OLD (OR EQUIVALENT) CANBOX 480 SERIES WITH 3/4" C FOR POWER UNDER SLAB TO NEAREST WALL. STUBBED TO ACCESSIBLE CEILING. VERIFY EXACT FINISHES WITH ARCHITECT PRIOR TO INSTALLATION. COORDINATE EQUIPMENT LOCATION WITH TENANT/ARCHITECT PRIOR TO ROUGH-IN AND INSTALLATION.
5. WELDER RECEPTACLE. VERIFY LOCATION AND ELECTRICAL EQUIPMENT REQUIREMENTS UPON FINAL EQUIPMENT SELECTION PRIOR TO ROUGH-IN.



1 ELECTRICAL POWER PLAN

3/16" = 1'-0"



Plus Associates, Inc.
Examined: J. Lento

CPA # 2018028527 - May 30, 2018

E202

SHEET

PROJECT

DATE

CHECKER

DESIGNER

SHEET

ELECTRICAL

POWER PLAN

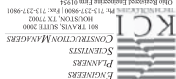
REVISIONS

1 10/28/18 100%

2 10/15/18 ISSUED

3 10/15/18 PERMIT

IEA WHITE - HAVILAND
O&M BUILDING
PALMICO COUNTY, OH



LIGHTING FIXTURE SCHEDULE

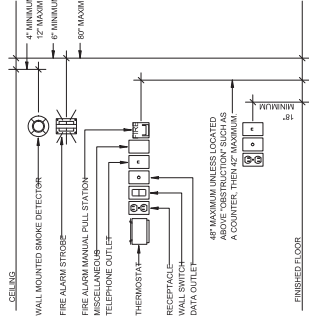
TYPE	REF AND CATALOG NO.	DESCRIPTIONS
A	BY SUBMITTAL	90 WATT LED LOWBAY INDUSTRIAL LIGHT
B		30 WATT LED WALL PACK
D		2X4 30 WATT LED LAY IN LIGHT
F		30 WATT LED STRIP LIGHT
G		48 WATT LED WET LOCATION STRIP LIGHT
X1		LED EXIT (W/ EMERGENCY LEADS AND AUX HEADS W/ 90 MIN. BATT. BACKUP)
X2		EMERGENCY LIGHT W/ 90 MIN. BATT. BACKUP

GENERAL NOTES

- ALL WIRING TO BE DONE IN STRICT ACCORDANCE OF NEC OR IF NOT CONDUIT
- ALL WIRING BELOW GROUND OR CONCRETE SHALL BE RUN IN RIGID PVC OR
- ALL GROUNDING OF EQUIPMENT AND FIXTURES SHALL MEET ARTICLE 250 OF
- ALL WIRE SHALL BE STRANDED COPPER
- FLEXIBLE CONDUIT AND TYPE MC WIRE SHALL BE ALLOWED AS PERMITTED BY
- ALL BRANCH CIRCUITS SHALL BE TYPE THHN WIRE #12 FOR 20 AMP CIRCUIT, #10
- FOR 30 AMP CIRCUIT, #8 FOR 40 AMP CIRCUIT

PANEL	400A SQ. D NQOD MLO	
PP1	120/240 VAC 1PH	
1	OFFICE LIGHTS	12 20A
2	STREET LIGHTS	12 20A
3	STREET LIGHTS	12 20A
4	STREET LIGHTS	12 20A
5	STREET LIGHTS	12 20A
6	STREET LIGHTS	12 20A
7	STREET LIGHTS	12 20A
8	STREET LIGHTS	12 20A
9	STREET LIGHTS	12 20A
10	STREET LIGHTS	12 20A
11	STREET LIGHTS	12 20A
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50	STREET LIGHTS	12 20A

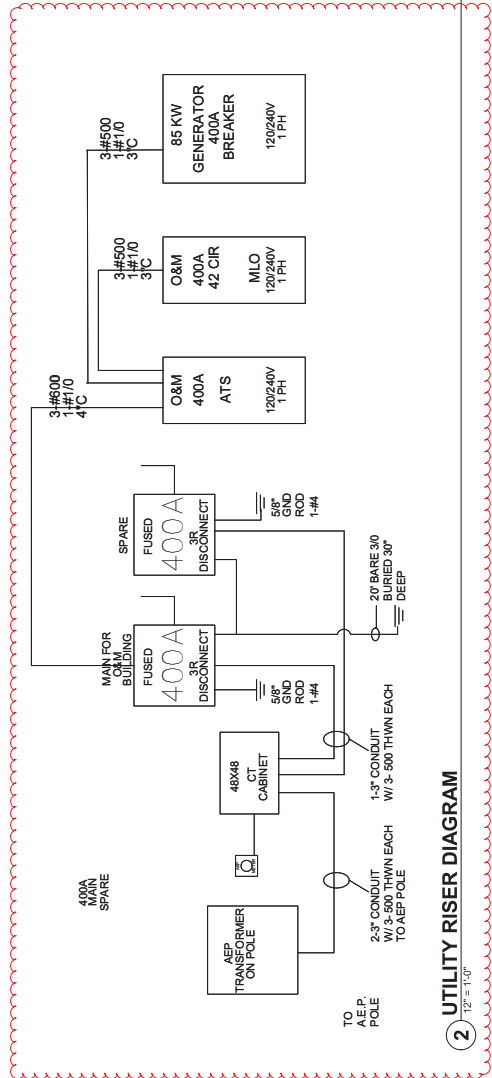
LOAD CALCULATION: TOTAL CONNECTED LOAD 800A W/ 50.0 AMP
DEMAND LOAD CALCULATION: BASED ON NEC ARTICLE 220.42, 220.44 AND 220.51
LIGHTING 1,000 WATTS
HVAC 41,000 WATTS
RECEPTACLES 10,000 WATTS
HEATING 10,000 WATTS
PLUMBING 10,000 WATTS
TOTAL 71,000 WATTS
AMPS 280.0 AMP



NOTE: ALL DEVICES SHOWN MAY NOT BE USED. DETAIL INDICATES TYPICAL MOUNTING HEIGHTS ONLY. MOUNTING HEIGHTS SHOWN ON THE DRAWING ARE TYPICAL. THE EXACT MOUNTING HEIGHTS SHALL BE DETERMINED BY THE ARCHITECT AND SHALL BE SHOWN ON THE ARCHITECT'S DRAWING. EXACT MOUNTING HEIGHT REQUIRED WITH ARCHITECT AND INSTALL ACCORDINGLY.

APPLICABLE CODES: LATEST EDITION OF CODES ADOPTED BY LOCAL AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODE 70, THE INTERNATIONAL BUILDING CODE 2012.

1 MOUNTING HEIGHT
1 NOT TO SCALE



CPA # 2018028527 - May 30, 2018

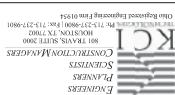
E300

PROJECT: 75000000
DATE: 3/15/18
CHECKER: J. J. Leno

DESIGNER: J. J. Leno

REVISIONS:
1 10/25/18 100%
2 10/25/18 100%
3 10/25/18 100%
4 10/25/18 100%
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8 10/25/18 100%
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100 10/25/18 100%

IEA WHITE - HAYLAND
PALMING COUNTY, OH





Ohio Department of Commerce
Division of Industrial Compliance

John R. Kasich
Governor

Jacqueline T. Williams
Director

Geoffrey D. Eaton
Chief Building Official

Certificate of Final Plan Approval

Plan Number: 2018020527	Property Address: 11874 SR 144 HAVILAND OH 45851	County: PAULDING
Date of Approval: 04/20/2018	Type of Project: New Building	Governing Building Code: OBC 2017
Building / Business Name: NWOWF O&M BUILDING	Description of the Project: This is just for the footings and foundations plan review and approval, full building will be submit	
Property Owner: STARWOOD ENERGY GROUP GLOBAL LLC ALEX DABERKO 5 GREENWICH OFFICE PARK Floor 2ND GREENWICH CT 06831	Submitter: PHILLIP GARNER 33126 MAGNOLIA CIR Suite 200 MAGNOLIA TN 77354	Design Professional: TOD HENNING 1225 N LOOP W Suite 800 HOUSTON TX 7708
Approved Scope of Project: General Building Trade Mechanical Electrical	Authorized No. of Inspections: 6 6 6	Use Occupancy Groups: B S-1
		Construction Type: Type V B
		Number of Stories: 1
		Building Occupant Load: 50

The list of required inspections is specified in section 108 OBC. The owner or the owner's authorized agent is responsible for requesting applicable inspections accordingly. 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 8:15 am to 2:30 pm	State Fire Marshal 614-728-5460	All Other Inquiries 1-800-523-3581 8:00 am to 5:00 pm
---	---	--

State Inspector's Signature for Occupancy:

Building Official Signature:

Final Structural Approval: _____ Date: _____

Final Electrical Approval: _____ Date: _____

Final Plumbing Approval: _____ Date: _____

Final Fire Approval: _____ Date: _____

Ohio Department of Commerce
Division of Industrial Compliance
6606 Tussing Road, PO Box 4009
Reynoldsburg, OH 43068-9009 U.S.A.
(614) 644-2622 Fax: (614) 644-3145



Ohio Department of Commerce
Division of Industrial Compliance

John R. Kasich
Governor

Jacqueline T. Williams
Director

Geoffrey D. Eaton
Chief Building Official

Certificate of Partial
Plan Approval 1

Plan Number: 2018020527	Property Address: 11874 SR 144 HAVILAND OH 45851	County: PAULDING
Date of Approval: 03/21/2018	Type of Project: Alteration	Governing Building Code: OBC 2017
Building / Business Name: NWOWF O&M BUILDING	Description of the Project: This is just for the footings and foundations plan review and approval, full building will be submit	
Property Owner: STARWOOD ENERGY GROUP GLOBAL LLC GREG CANTWELL 5 GREENWICH OFFICE PARK Floor 2ND GREENWICH CT 06831	Submitter: PHILLIP GARNER 33126 MAGNOLIA CIR Suite 200 MAGNOLIA TN 77354	Design Professional: TOD HENNING 1225 N LOOP W Suite 800 HOUSTON TX 7708
Approved Scope of Project: General Building Trade	Authorized No. of Inspections: 6	Use Occupancy Groups: B S-1
		Construction Type: Type V B
		Number of Stories: 1
		Building Occupant Load: 50

The list of required inspections is specified in section 108 OBC. The owner or the owner's authorized agent is responsible for requesting applicable inspections accordingly. 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 8:15 am to 2:30 pm	State Fire Marshal 614-728-5460	All Other Inquiries 1-800-523-3581 8:00 am to 5:00 pm
---	---	--

State Inspector's Signature for Occupancy:

Building Official Signature:

Final Structural Approval: _____ Date: _____

Final Electrical Approval: _____ Date: _____

Final Plumbing Approval: _____ Date: _____

Final Fire Approval: _____ Date: _____

Ohio Department of Commerce
Division of Industrial Compliance
6606 Tussing Road, PO Box 4009
Reynoldsburg, OH 43068-9009 U.S.A.
(614) 644-2622 Fax: (614) 644-3145



Department of Commerce

Division of Industrial Compliance

John R. Kasich, Governor
Jacqueline T. Williams, Director

03/21/2018

**STARWOOD ENERGY GROUP GLOBAL LLC
GREG CANTWELL
5 GREENWICH OFFICE PARK Floor 2ND
GREENWICH CT 06831**

CORRECTION LETTER NO. 1

Project Number: **2018020527**
Response Deadline: **09/17/2018**

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:

**NWOWF O&M BUILDING
11874 SR 144
HAVILAND OH 45851**

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

1. ENERGY ANALYSIS

Submit documentation showing the building has been designed in accordance with the applicable provisions of the 'International Energy Conservation Code' or the requirements of 'ASHRAE 90.1' listed in Chapter 35 of this code; Section 1301.1 OBC.

Bureau of Building Code Compliance
6606 Tussing Road
PO Box 4009
Reynoldsburg, OH 43068-9009 U.S.A.

614 | 644 - 2622
Fax 614 | 644 - 3145
TTY/TDD 800 | 750 - 0750
www.com.ohio.gov

An Equal Opportunity Employer and Service Provider

CPA # 2018020527 - April 20, 2018



Department of Commerce

Division of Industrial Compliance

John R. Kasich, Governor
Jacqueline T. Williams, Director

2018020527

03/21/2018

Page #2

2. Submit the special inspection requirement requested in the partial plan approval; Chapter 17 OBC.

3. Submit oil storage building and fence under separate permits; Sections 101.2, 106.1.1, 311.2, and 312.1 OBC.

4. Submit the rest of the construction documents including mechanical, electrical, and plumbing; Section 106.1.1 OBC.

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 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 Geoffrey D. Eaton, 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,

Jeffrey Lasko,

Plans Examiner

Bureau of Building Code Compliance
6606 Tussing Road
PO Box 4009
Reynoldsburg, OH 43068-9009 U.S.A.

614 | 644 – 2622
Fax 614 | 644 – 3145
TTY/TDD 800 | 750 – 0750
www.com.ohio.gov

An Equal Opportunity Employer and Service Provider

CPA # 2018020527 - April 20, 2018



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

CPA Number: 2018020527	Building Use Groups: B, & S-1	Plan Approval Date:
Approval Type: <input type="checkbox"/> Final <input checked="" type="checkbox"/> Partial No. 1	Construction Type: VB	County: Paulding

• **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 per 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 Bureau of 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, indicate the approval includes:** ☒ Footing/Foundation ☒ Slab ☒ Building Shell ☐ Interior Finish ☐ Sprinkler ☐ Fire alarm

Effective February 1, 2009, the permit fees paid with this application will include the following maximum number of inspections per scope of work:	Plan approval conditions and/or special notes to the inspectors:
Total square/linear footage or No. of devices	Maximum No. of inspections allowed:
0 to 2,500	5 per each scope of work
2,501 to 10,000	6 per each scope of work
10,001 to 20,000	9 per each scope of work
20,001 to 30,000	10 per each scope of work
> 30,000	Add 1 inspection per each additional 10,000 s.f.
A re-inspection fee of \$100 will be charged for each additional inspection requested.	



Site Inspection Sign-Off Log

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 allowed for each scope of work.

Certificate of Plan Approval (CPA) Number: 2018020527

Scope of Work: Building General		Total number of inspections allowed:		6
#	Inspected Item	Date	Inspector signature	Inspection results
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				



Site Inspection Sign-Off Log

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 allowed for each scope of work.

Certificate of Plan Approval (CPA) Number: 2018020527

Scope of Work: Mechanical		Total number of inspections allowed:		6
#	Inspected Item	Date	Inspector signature	Inspection results
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				



Site Inspection Sign-Off Log

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 allowed for each scope of work.

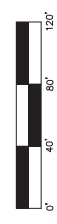
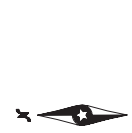
Certificate of Plan Approval (CPA) Number: 2018020527

Scope of Work: Electrical		Total number of inspections allowed:		6
#	Inspected Item	Date	Inspector signature	Inspection results
1				
2				
3				
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Designed:	SLG
Checked:	SP
Drawn:	SLG
As-Built Drawing:	
Project No:	201800527
Revision:	00000000

Prepared for:
WHITE
 an AECOM company
 3900 E. White Ave
 Canton, OH 44705

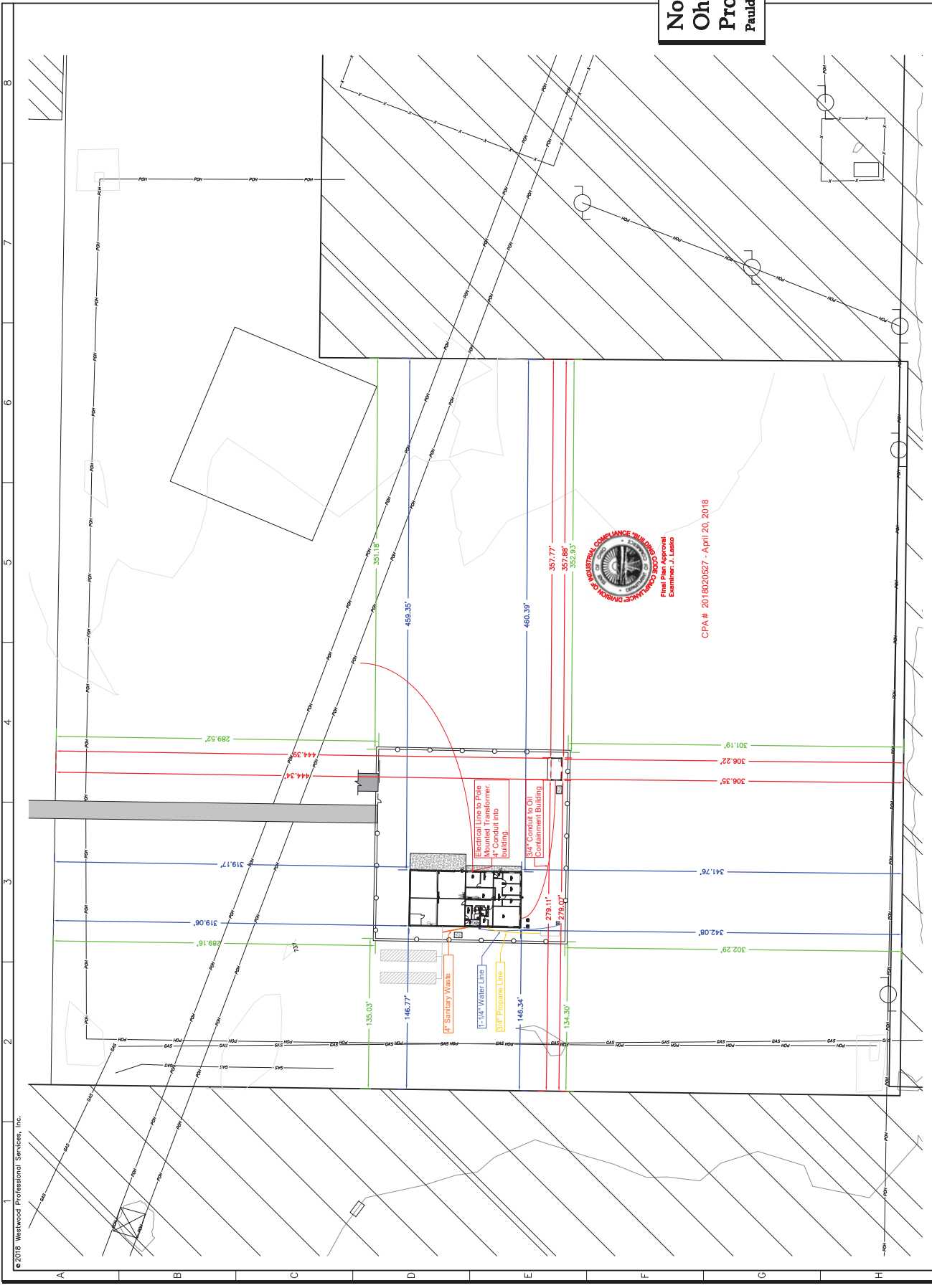
Tridax Wind Ohio, LLC
 c/o Starwood Energy Group, LLC
 5 Greenview Office Park, 2nd Floor
 Cincinnati, OH 45202



Northwest Ohio Wind Project Paulding, Ohio

O & M
 Building Dimension
 Exhibit

Date: 03/20/2018
 Sheet: 1 of 1
 000706.dwg EXHIBIT-BLDG Layout.dwg



CPA # 2018020527 - April 20, 2018
 Final Design Approval
 Examiner: J. Lasko

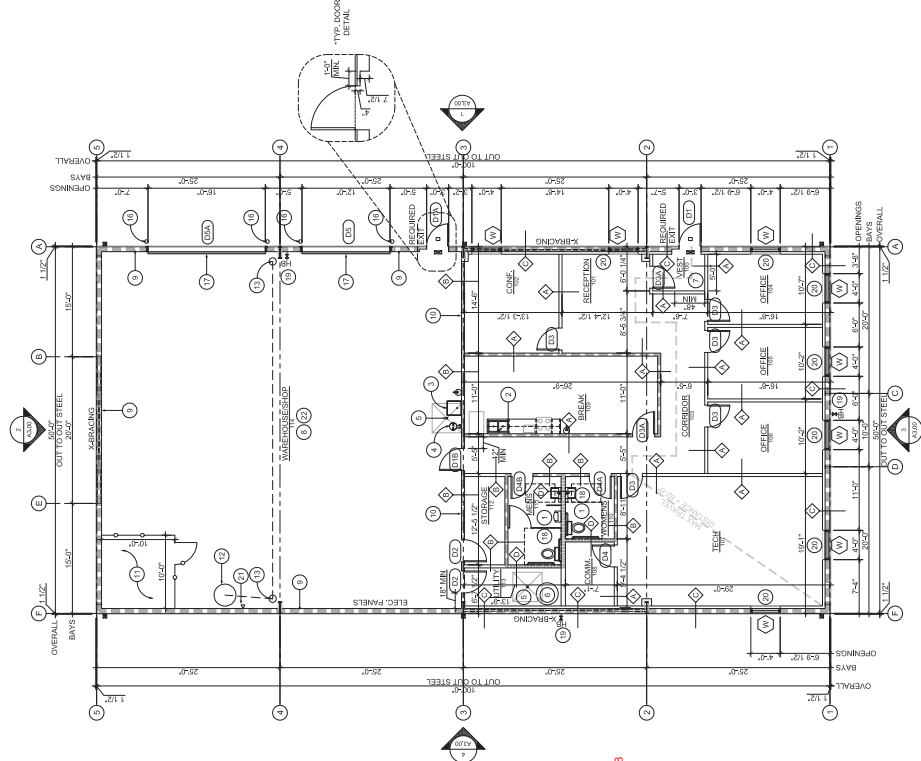
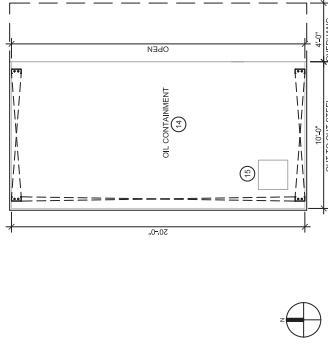
GENERAL NOTES 11

UTILITIES NOTES 10

KEY NOTES 9

ARCHITECTURAL SITE PLAN 1
1" = 30'

4
- SHED
1/4" = 1'-0"








FLOOR PLAN - O&M BUILDING

KEY NOTES

- [illegible]

KEY NOTES

LEGEND

- | | |
|---|--|
|  | INDICATES SLOPING TYPE - RE-AT-70 FOR SCHEDULE/ELEVATIONS |
|  | INDICATES WALL TYPE - RE-AT-70 FOR SCHEDULE/ELEVATIONS |
|  | INDICATES DOOR TYPE - RE-AT-70 FOR SCHEDULE/ELEVATIONS |
|  | INDICATES TYPICAL WALL |
|  | INDICATES INSULATED WALL |
|  | INDICATES VET WALL - RE-AT-70 |
|  | ORIENTED FIRE EXTINGUISHER LOCATIONS - EXTINGUISHERS TO BE SURFACE MOUNTED IN WALL - MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER IS 7 FEET |
|  | HOSE BIB - FREEZE RESISTANT - RE-MEP |

LEGEND

MEP NOTES

VERIFY TYPE AND SIZE OF ALL PLUMBING FIXTURES WITH CONTRACTOR
CONTRACTOR TO PROVIDE CONNECTIONS FOR ALL OWNER PROVIDED APPLIANCES WHERE NOTED

EGRESS NOTE

ALL DOORS AT GRADE OR PROVIDED WITH ACCESSIBLE LANDING, REFER TO CIVIL PLANS FOR SIDEWALKS AND LANDINGS AT GRADE. MAINTAIN NOT MORE THAN 1/2" CHANGE IN LEVEL BOTH SIDES OF THRESHOLD TYPICAL ALL DOORS.

STRICTLY PRIVATE NOTE

BAY DIMENSIONS SHOWN FOR REFERENCE ONLY - RE: PEMB DRAWINGS FOR EXACT SIZES AND BUILDING SPECIFICATIONS - FINAL DIMENSIONS SUBJECT TO CHANGE

GENERAL NOTES (C)

FIRE-RESISTANCE RATING REQUIREMENTS, HOURS (IBC TABLE 601)		PROVIDED RATING (HOURS)
TYPE	IBC CONSTRUCTION	REQUIRED (HOURS)
PRIMARY STRUCTURAL FRAME		0
BEARING WALLS - EXTERIOR		0
BEARING WALLS - INTERIOR		0
NONBEARING WALLS AND PARTITIONS - INTERIOR		0
FLOOR CONSTRUCTION/SECONDARY MEMBERS		0
ROOF CONSTRUCTION/SECONDARY MEMBERS		0

FIRE ALARM AND DETECTION REQUIREMENTS - NON SPRINKLERED

MANUAL FIRE ALARM
 B: 0 + 500 OCCUPANTS = NOT REQUIRED PER FC 807.2
 A: 0 + 500 OCCUPANTS = NOT REQUIRED PER FC 807.2
 ALARM MONITORING
 NOT REQUIRED FOR NON-SPRINKLED BUILDINGS
 AUTOMATIC FIRE DETECTION SYSTEM
 B: NOT REQUIRED PER FC 807.2
 F: NOT REQUIRED PER FC 807.2
 OCCUPANT NOTIFICATION
 NOT REQUIRED PER 807.2

FIRE PROTECTION NOTES

LEGEND

RAYBURN DONALSON
2118 LAAMAR ST., STE. 200
HOUSTON, TEXAS 77003
(713) 842-7300

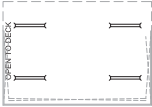


RAYBURN DONALSON
Professional Engineer
State of Texas, No. 154895
Mechanical
RAYBURN DONALSON DONOR

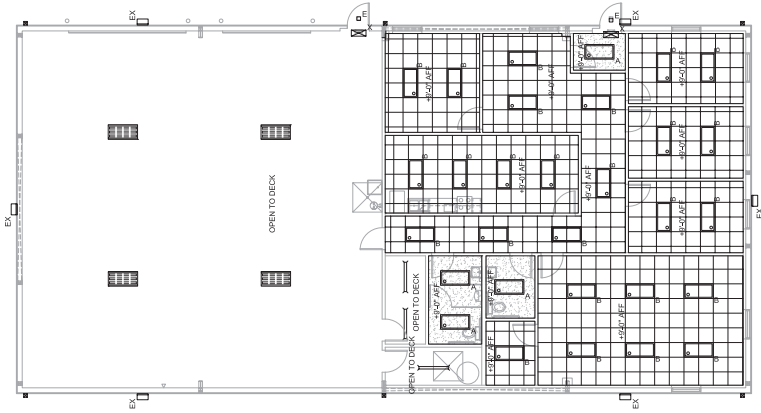


IEA WHITE - HAVILAND
O&M BUILDING
PALMISO COUNTY, OH

SHEET:
REFLECTED
CEILING PLAN
REVISIONS:
DATE: 04-26-18
PROJECT:
MB184009
SHEET:
A2.10



RCP - STORAGE SHED 14



RAYBURN DONALSON
Professional Engineer
State of Texas, No. 154895
Mechanical
RAYBURN DONALSON DONOR



REFLECTED CEILING PLAN 1
1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

A

ACRYLIC PRISMATIC 2' X 4' LIGHT FIXTURE - LED INDIRECT - SURFACE MOUNTED

B

ACRYLIC PRISMATIC 2' X 4' LIGHT FIXTURE - LED INDIRECT - CEILING GRID MOUNTED

C

40 WATT SUPER METAL HALIDE WALL PACK WITH PHOTOCELL

D

4 STRIP LIGHT FLUORESCENT FIXTURE - RATED FOR EXTERIOR EXPOSURE

E

2' X 2' SUSP. ACQUST. TILE CEILING AND GRID SYSTEM (SEE FINISH SCHEDULE) - BREAK GRID AND CENTER IN EACH ROOM AS SHOWN

F

GYPSUM WALLBOARD CEILING

G

75 HIGH OUTPUT HIGH BAY SKY LAMP FIXTURE - LED - SUSPENDED AT 17' A.F.F.

H

ILLUMINATED EXIT SIGN

I

EXTERIOR EGRESS LIGHTING ON TIMER AND PHOTOCELL

LEGEND 10

RCP GENERAL NOTES

REFER TO MECHANICAL DRAWINGS FOR ELECTRICAL DRAWINGS FOR NUMBER, TYPE AND LOCATION OF ACCESS DOORS REQUIRED IN WARD CEILINGS OR WALL ACCESS ABOVE SUSP. ACQUST. TILE CLUS. CEILING PLANS INDICATE SUGGESTED OR PREFERRED SUSPENSION GRID LAYOUTS. ALL CONTRACTORS TO BE RESPONSIBLE FOR CROSS COORDINATION BETWEEN MECHANICAL, ELECTRICAL, PLUMBING ITEMS AND THEIR SCOPE OF WORK.

UNLESS OTHERWISE NOTED ALL PLASTER AND G.C.M. CEILINGS AND/OR SUFFITS TO BE PAINTED.

EGRESS LIGHTING GENERAL NOTES

MEANS OF EGRESS ILLUMINATION LEVELS SHALL NOT BE LESS THAN 1 FOOT-CANDLES AT THE WALKING SURFACE.

THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A MINIMAL DURATION OF 90 MINUTES.

NOTE: EMERGENCY LIGHTING AND EXIT SIGNS TO COMPLY WITH UL 924. SEE ELECTRICAL DRAWINGS.

EXIT SIGNAGE

EXIT DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS. EXIT SIGNS SHALL BE PLACED TO INDICATE THE DIRECTION OF EGRESS TRAVEL. EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN AN EXIT ACCESS CORRIDOR OR EXIT PASSAGEWAY IS MORE THAN 100 FEET FROM THE CLOSEST VISIBLE EXIT SIGN.

GENERAL NOTES 9

RAYBURN DONALSON
2118 LAKEVIEW ST., STE. 200
HOUSTON, TEXAS 77003
(713) 842-7300



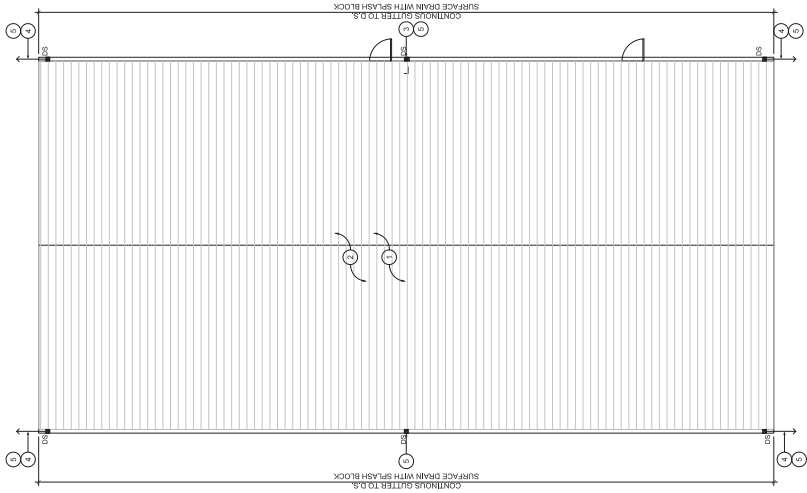
RAYBURN DONALSON
Professional Engineer
State of Texas
No. 158887
Mechanical



IEA WHITE - HAVILAND
O&M BUILDING
PALMICO COUNTY, OH

SHEET:	ROOF PLAN AND NOTES
REVISIONS:	
1	ISSUED FOR PERMIT
2	ISSUED FOR CONSTRUCTION
3	ISSUED FOR CONSTRUCTION
4	ISSUED FOR CONSTRUCTION
5	ISSUED FOR CONSTRUCTION
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99	ISSUED FOR CONSTRUCTION
100	ISSUED FOR CONSTRUCTION

A2.20



2018020527 - April 20, 2018

ROOF LEGEND
1. PROVIDE NEW EXTERIOR 6061 METAL DOWNSPOUTS - SURFACE DRAIN

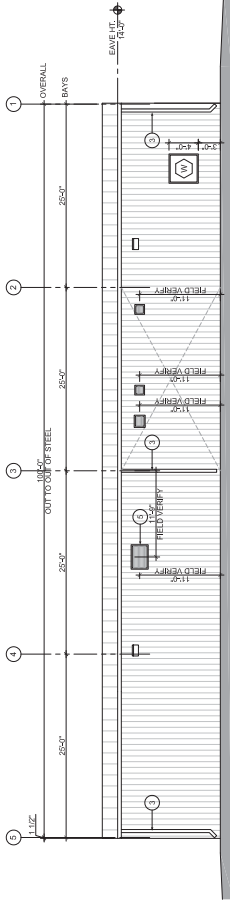
LEGEND 10

ROOF DRAINAGE CALCULATIONS
BUILDING 1,500 S.F. / 150 S.F. = 10.0 S.F. / 10.0 S.F. = 1.0 REQUIRED AT 6" X 6"
6 DOWNSPOUTS PROVIDED AT 6" X 6"
ROOF KEY NOTES
1. ROOF IS NOT TO HAVE ANY OPENINGS - ALL VENTS, ETC. SHOULD EXIT THROUGH SIDE WALLS
2. PROVIDE 26GA. R-PAVEMENT ROOF
3. PROVIDE 4" TRENCH DRAIN AT DOWNSPOUT - SEE 1A.1.00
4. DOWNSPOUT DISCHARGE DIRECTION
5. HEAT TAPE TBS - ADD ALT. - CORNER WITH DESIGNER/OWNER

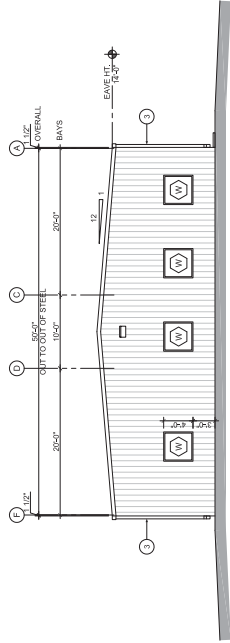
ROOF NOTES 9



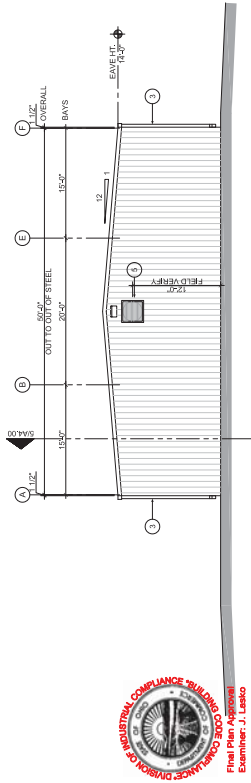
SHEET:	BUILDING ELEVATIONS
REVISIONS:	
DATE: 04-26-18	TL: JRR / DE: NDK
PROJECT: MB184009	
SHEET:	A3.00



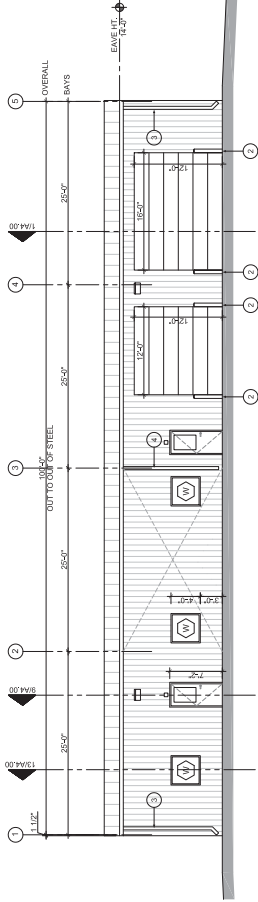
WEST ELEVATION 4
1/8" = 1'-0"



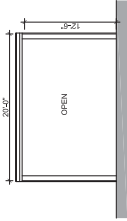
SOUTH ELEVATION 3
1/8" = 1'-0"



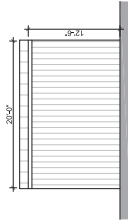
NORTH ELEVATION 2
1/8" = 1'-0"



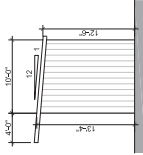
EAST ELEVATION 1
1/8" = 1'-0"



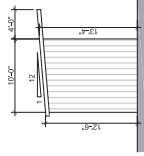
OIL SHED - NORTH ELEVATION 12
1/8" = 1'-0"



OIL SHED - SOUTH ELEVATION 11
1/8" = 1'-0"



OIL SHED - WEST ELEVATION 10
1/8" = 1'-0"



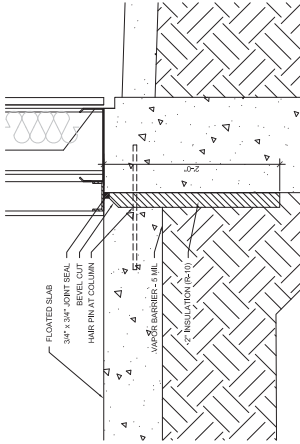
OIL SHED - EAST ELEVATION 9
1/8" = 1'-0"

MATERIAL LEGEND	
	VERTICALLY MOUNTED 28 GA PANEL
	28 GA PANEL WITH GALVALUME FINISH
FINISH SCHEDULE	
VERTICAL METAL PANEL	COLOR: LIGHT STONE
GUTTER	COLOR: RUSTIC BROWN
DOWNSPOUT TRIM	COLOR: T&B
WALL DOOR	COLOR: WHITE
WALL PACK	COLOR: MANUFACTURER STANDARD COLOR FINISH

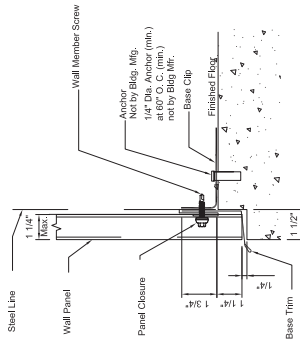
LEGEND AND SCHEDULES 14

ELEVATION KEY NOTES	
1	LED EXTERIOR WALL PACK ON PHOTOCELL - RE-MEP RCP
2	PROVIDE 1/2" R.O.U.N.D. 4" HIGH CONCRETE FILLED PIPE DOLLAND WHERE SHOWN - COLOR T&B (TYP) - RE JAN 01
3	PROVIDE SURFACE MOUNTED DOWNSPOUT - SURFACE DRAIN WITH SPLASHBLOCK
4	PROVIDE SURFACE MOUNTED DOWNSPOUT - DRAIN TO TRENCH - RE A1-00
5	APPROXIMATE LOCATION OF COVER - COLOR T&B - FIELD (SEMP) EXACT MOUNTING HEIGHT - RE-MEP FOR EXACT SIZE

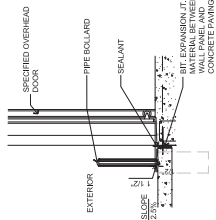
KEY NOTES 13



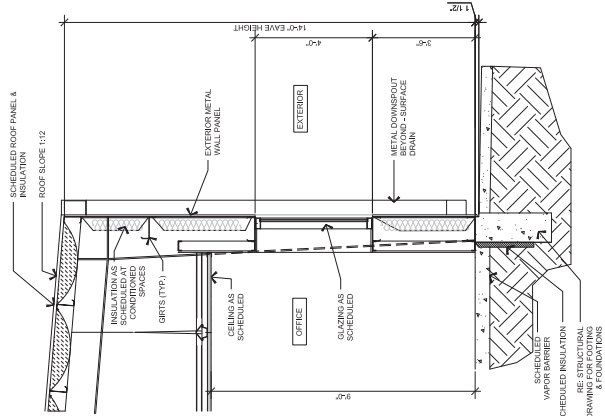
FOUNDATION INSULATION DETAIL 12
1-1/2" = 1'-0"



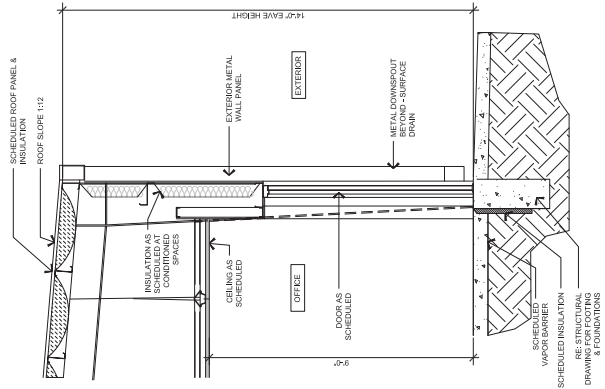
WALL PANEL DETAIL 8
NTS



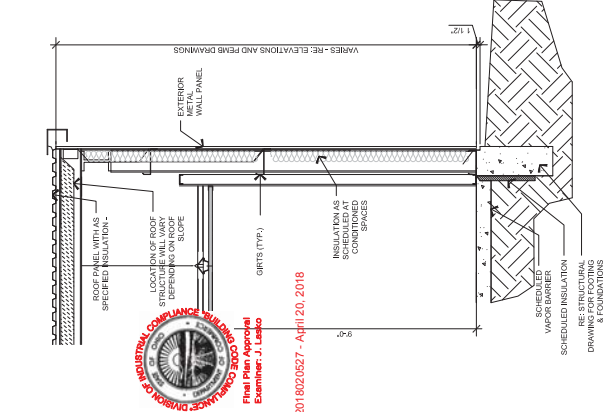
O.H. DOOR SILL DETAIL 4
NTS



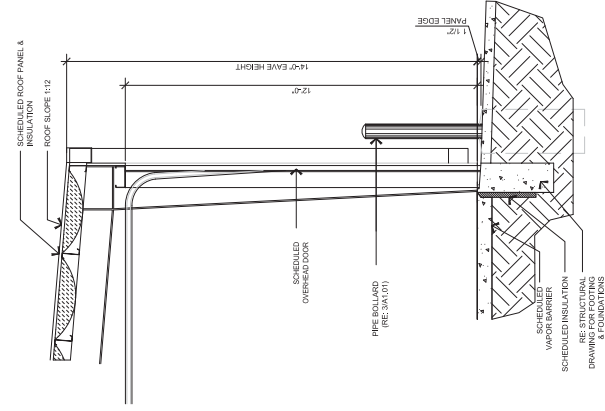
SIDE WALL SECTION 13
1/2" = 1'-0"



SIDE WALL SECTION 9
1/2" = 1'-0"



END WALL SECTION 5
1/2" = 1'-0"



SIDE WALL OH DOOR 1
1/2" = 1'-0"

SHEET:		WALL SECTIONS AND NOTES
REVISIONS:		
0	11/11/18	11/11/18
1	11/11/18	11/11/18
2	11/11/18	11/11/18
3	11/11/18	11/11/18
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5	11/11/18	11/11/18
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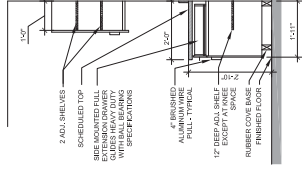




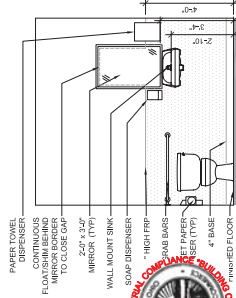
GENERAL NOTES	<p>MAXIMUM SINK DEPTH - 6 1/8"</p> <p>REFER TO ADAAG STANDARD MOUNTING HEIGHTS</p>
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MILLWORK SECTION - SINK (9)

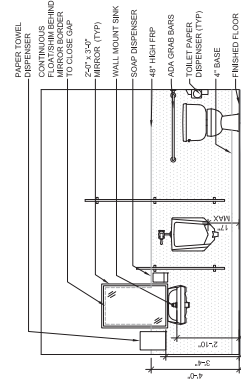
3/8" = 1'-0"



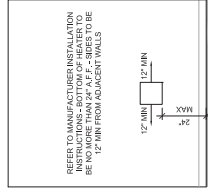
MILLWORK SECTION - BREAKROOM TYPE 1

 $3/8" = 1'-0"$ 

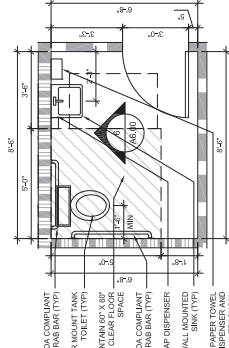
ELEVATION - RESTROOM 110 (S)

$$3/8'' = 1' 0''$$


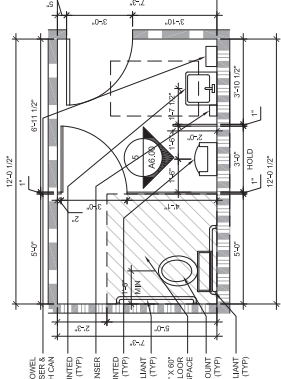
ELEVATION - VESTIBULE - WALL HEATER

$$\frac{3/8" = 1'-0"}{9}$$


ELEVATION - MILLWORK - 109 (

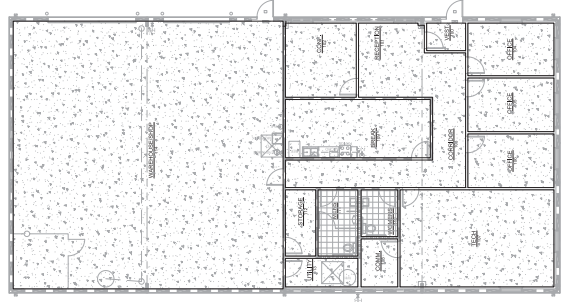
$$\frac{3}{8}'' = 1'-0''$$


ENLARGED PLAN - RESTROOM 110 (C)

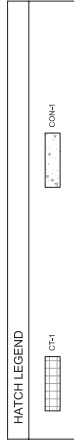
$$\frac{2}{3/8^\circ - 1/0^\circ}$$


ENLARGED PLAN - RESTROOM 111

$$\frac{1}{3/8" = 1'-0"}$$



7
FINISH FLOOR PLAN
1/8" = 1'-0"



FINISH FLOOR PLAN 3
1/8" = 1'-0"

ROOM FINISH SCHEDULE - OFFICE									
NO.	ROOM NAME	FLOOR	WALLS				CEILING		
			NORTH	EAST	SOUTH	WEST			
APRIL 2023 PROJECT									
Final Plan Approval									
Revision 1 - 04/20/2018									
001	RECEPTION	CD04	B-1	P-1	P-1	P-1	P-1	OT-1 T-1 YR	
002	CONFERENCE	CD04	B-1	P-1	P-1	P-1	P-1	ACT-1 T-1 YR	
003	CORRIDOR	CD04	B-1	P-1	P-1	P-1	P-1	ACT-1 T-1 YR	
004	OFFICE	CD04	B-1	P-1	P-1	P-1	P-1	ACT-1 T-1 YR	
005	OFFICE	CD04	B-1	P-1	P-1	P-1	P-1	ACT-1 T-1 YR	
006	OFFICE	CD04	B-1	P-1	P-1	P-1	P-1	ACT-1 T-1 YR	
007	OFFICE	CD04	B-1	P-1	P-1	P-1	P-1	ACT-1 T-1 YR	
008	TECH	CD04	B-1	P-1	P-1	P-1	P-1	ACT-1 T-1 YR	
009	COMMUNICATIONS	CD04	B-1	P-1	P-1	P-1	P-1	ACT-1 T-1 YR	
010	BREAK ROOM	CD04	B-1	P-1	P-1	P-1	P-1	ACT-1 T-1 YR	
110	WOMEN'S	OT-1	B-1	P-1 FERN	P-1	P-1 FERN	P-1 FERN	OT-1 T-1 YR	
111	MEN'S	OT-1	B-1	P-1	P-1	P-1	P-1 FERN	OT-1 T-1 YR	
112	STORAGE	CD04	B-1	P-1	P-1	P-1	P-1	BS-1	
113	UTILITY	CD04	B-1	P-1	P-1	P-1	P-1	BS-1	
114	SHOP	CD04	B-1	LOU-1	LOU-1	LOU-1	LOU-1	BS-1	

BASE APPLIED ONLY TO SYSTEM WALLS IN SHOP AREA

ROOM FINISH SCHEDULES 5

INTERIOR FINISHES - CLASSIFICATION CHART			
OCCUPANCY GROUP	EXIT ENCLOSURES, EXIT PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES
B - NON SPRINKLERED	B	B	C
F - NON SPRINKLERED	B	C	C

FINISH NOTES

MATERIAL SCHEDULE		
SYMBOL	MATERIAL	REMARKS
P-F1	PAINT FIELD PAINTS: 2B0 COLORS: 2D	EGGSHELL LATCH: 1. ONE COAT TOPSMA RASD PRIMER, 1.1 ML DPT. 2. ONE COAT INTERPR. USUAL TEMPERE TOP COAT PRSH- 3. ONE COAT INTERPR. USUAL TEMPERE TOP COAT PRSH- EGGSHELL LATCH: 1. ONE COAT TOPSMA RASD PRIMER, 1.1 ML DPT. 2. ONE COAT LATER EGGSHELL, 1.1 ML SPT PER COAT.
P-F2	PAINT ROOF PAINTS: 2B0 COLORS: 2D	EGGSHELL LATCH: 1. ONE COAT TOPSMA RASD PRIMER, 1.1 ML DPT. 2. ONE COAT LATER EGGSHELL, 1.1 ML SPT PER COAT.
P-F3	PAINT CEILING PAINTS: 2B0 COLORS: 2D	EGGSHELL LATCH: 1. ONE COAT TOPSMA RASD PRIMER, 1.1 ML DPT. 2. ONE COAT LATER EGGSHELL, 1.1 ML SPT PER COAT.
P-F4	PAINT PAINTS: 2B0 COLORS: 2D	EGGSHELL LATCH: 1. ONE COAT TOPSMA RASD PRIMER, 1.1 ML DPT. 2. ONE COAT LATER EGGSHELL, 1.1 ML SPT PER COAT.
CON-1	CONCRETE SEALER CONCRETE SEALERS: 2B0 COLORS: 2D	EGGSHELL LATCH: 1. ONE COAT TOPSMA RASD PRIMER, 1.1 ML DPT. 2. ONE COAT LATER EGGSHELL, 1.1 ML SPT PER COAT.
CON-2	CONCRETE ROOF CONCRETE ROOFS: 2B0 COLORS: 2D	EGGSHELL LATCH: 1. ONE COAT TOPSMA RASD PRIMER, 1.1 ML DPT. 2. ONE COAT LATER EGGSHELL, 1.1 ML SPT PER COAT.
C-1	CEMENT FLOOR TILE CEMENT FLOOR TILES: 2D	EGGSHELL LATCH: 1. ONE COAT TOPSMA RASD PRIMER, 1.1 ML DPT. 2. ONE COAT LATER EGGSHELL, 1.1 ML SPT PER COAT.
B-1	WALL BASE / STANDARD TOE WALL BASES: 2D	EGGSHELL LATCH: 1. ONE COAT TOPSMA RASD PRIMER, 1.1 ML DPT. 2. ONE COAT LATER EGGSHELL, 1.1 ML SPT PER COAT.
CH-1	LAMINATE COUNTER TOP LAMINATE COUNTER TOPS: 2D	EGGSHELL LATCH: 1. ONE COAT TOPSMA RASD PRIMER, 1.1 ML DPT. 2. ONE COAT LATER EGGSHELL, 1.1 ML SPT PER COAT.
SL-1	WOOD FLOOR / SOLID SURFACE WOOD FLOORS: 2D	EGGSHELL LATCH: 1. ONE COAT TOPSMA RASD PRIMER, 1.1 ML DPT. 2. ONE COAT LATER EGGSHELL, 1.1 ML SPT PER COAT.
ML-1	WOOD ROOF / WALL GARNETS WOOD ROOFS: 2D	EGGSHELL LATCH: 1. ONE COAT TOPSMA RASD PRIMER, 1.1 ML DPT. 2. ONE COAT LATER EGGSHELL, 1.1 ML SPT PER COAT.
L-1	WOOD FLOOR / SOLID SURFACE WOOD FLOORS: 2D	EGGSHELL LATCH: 1. ONE COAT TOPSMA RASD PRIMER, 1.1 ML DPT. 2. ONE COAT LATER EGGSHELL, 1.1 ML SPT PER COAT.
AC-1	SUPERFACED ACoustical CEILING ACoustical CEILINGS: 2D	EGGSHELL LATCH: 1. ONE COAT TOPSMA RASD PRIMER, 1.1 ML DPT. 2. ONE COAT LATER EGGSHELL, 1.1 ML SPT PER COAT.
ES	EXPANDED THERMOFOAM ROOF STRUCTURE EXPANDED THERMOFOAM ROOF STRUCTURES: 2D	EGGSHELL LATCH: 1. ONE COAT TOPSMA RASD PRIMER, 1.1 ML DPT. 2. ONE COAT LATER EGGSHELL, 1.1 ML SPT PER COAT.

MATERIAL SCHEDULE 9

1. GENERAL

- 1.1 THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATE WITH ALL OTHER DISCIPLINE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATE WITH ALL OTHER DISCIPLINE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATE WITH ALL OTHER DISCIPLINE DRAWINGS.

1.2 DESIGN CRITERIA:

- A. CODES AND SPECIFICATIONS CODE: INTERNATIONAL BUILDING CODE.
2. CONCRETE: BUILDING CODE REQUIREMENTS FOR CONCRETE SHALL BE REPORTED BY THE CONTRACTOR TO THE ARCHITECTURAL OR STRUCTURAL ENGINEER. ACT 1718-14.
- B. DESIGN LOADS (PSF):
1. DEAD LOADS: 10 PSF
2. LIVE LOADS: 40 PSF
3. WIND LOADS: 15 PSF
4. SEISMIC LOADS: 0.15g

5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATING/CONSTRUCTING ANY STRUCTURAL ELEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATE WITH ALL OTHER DISCIPLINE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATE WITH ALL OTHER DISCIPLINE DRAWINGS.

- 1.3 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATING/CONSTRUCTING ANY STRUCTURAL ELEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATE WITH ALL OTHER DISCIPLINE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATE WITH ALL OTHER DISCIPLINE DRAWINGS.

- 1.4 SHOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT DESIGN SHOP DRAWINGS FOR REVIEW AND APPROVAL BY THE ARCHITECTURAL OR STRUCTURAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATE WITH ALL OTHER DISCIPLINE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATE WITH ALL OTHER DISCIPLINE DRAWINGS.

- 1.5 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATING/CONSTRUCTING ANY STRUCTURAL ELEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATE WITH ALL OTHER DISCIPLINE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATE WITH ALL OTHER DISCIPLINE DRAWINGS.

- 1.6 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATING/CONSTRUCTING ANY STRUCTURAL ELEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATE WITH ALL OTHER DISCIPLINE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATE WITH ALL OTHER DISCIPLINE DRAWINGS.

- 1.7 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATING/CONSTRUCTING ANY STRUCTURAL ELEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATE WITH ALL OTHER DISCIPLINE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATE WITH ALL OTHER DISCIPLINE DRAWINGS.

2. FOUNDATION NOTES:

- 2.1 CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING ANY WORK.
- 2.2 CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE SHOULD ANY DIMENSIONS OR CONDITIONS VARY FROM THE INTENT OF THE DRAWINGS.
- 2.3 IN AREAS WHERE THERE IS VEGETATION, CONTRACTOR SHALL REMOVE ALL VEGETATION TO A MINIMUM OF 6 INCHES DEEP AT LEAST FIVE FEET BEYOND THE FOUNDATION. STRIPPED MATERIAL SHALL BE HAULED OFF OR SPREAD ON SITE AS DIRECTED BY OWNER.

- 2.4 CONTRACTOR SHALL PROVE ROLL THE SUBGRADE TO DETERMINE LOCATION OF SOFT OR LOOSE SOILS. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL.

- 2.5 CONTRACTOR SHALL PROVE ROLL THE SUBGRADE TO DETERMINE LOCATION OF SOFT OR LOOSE SOILS. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL.

- 2.6 CONTRACTOR SHALL PROVE ROLL THE SUBGRADE TO DETERMINE LOCATION OF SOFT OR LOOSE SOILS. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL.

- 2.7 CONTRACTOR SHALL PROVE ROLL THE SUBGRADE TO DETERMINE LOCATION OF SOFT OR LOOSE SOILS. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL.

- 2.8 CONTRACTOR SHALL PROVE ROLL THE SUBGRADE TO DETERMINE LOCATION OF SOFT OR LOOSE SOILS. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL.

- 2.9 CONTRACTOR SHALL PROVE ROLL THE SUBGRADE TO DETERMINE LOCATION OF SOFT OR LOOSE SOILS. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL.

- 2.10 CONTRACTOR SHALL PROVE ROLL THE SUBGRADE TO DETERMINE LOCATION OF SOFT OR LOOSE SOILS. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL.

- 2.11 CONTRACTOR SHALL PROVE ROLL THE SUBGRADE TO DETERMINE LOCATION OF SOFT OR LOOSE SOILS. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL.

- 2.12 CONTRACTOR SHALL PROVE ROLL THE SUBGRADE TO DETERMINE LOCATION OF SOFT OR LOOSE SOILS. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL.

- 2.13 CONTRACTOR SHALL PROVE ROLL THE SUBGRADE TO DETERMINE LOCATION OF SOFT OR LOOSE SOILS. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL.

- 2.14 CONTRACTOR SHALL PROVE ROLL THE SUBGRADE TO DETERMINE LOCATION OF SOFT OR LOOSE SOILS. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL.

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- 2.16 CONTRACTOR SHALL PROVE ROLL THE SUBGRADE TO DETERMINE LOCATION OF SOFT OR LOOSE SOILS. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL.

- 2.17 CONTRACTOR SHALL PROVE ROLL THE SUBGRADE TO DETERMINE LOCATION OF SOFT OR LOOSE SOILS. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL.

- 2.18 CONTRACTOR SHALL PROVE ROLL THE SUBGRADE TO DETERMINE LOCATION OF SOFT OR LOOSE SOILS. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL.

- 2.19 CONTRACTOR SHALL PROVE ROLL THE SUBGRADE TO DETERMINE LOCATION OF SOFT OR LOOSE SOILS. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL.

- 2.20 CONTRACTOR SHALL PROVE ROLL THE SUBGRADE TO DETERMINE LOCATION OF SOFT OR LOOSE SOILS. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL. ALL SOFT OR LOOSE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL.

- 2.20 JOINT FILLER STRIPS FOR JOINTS SHALL CONFORM TO ASTM D-1751 OR D-1752. JOINT FILLER SHALL BE 1/2 INCH THICK AND 1/2 INCH WIDE. JOINT SEALANT FOR PORTLAND CEMENT CONCRETE PAVEMENTS SHALL CONFORM TO ASTM D-3495.

- 2.21 #5 X 5'-0" LONG REINFORCING STEEL SHALL BE PROVIDED AT ALL RE-ENTRANT CORNERS.

3. PRE-ENGINEERED METAL BUILDINGS: THE SCOPE OF WORK INCLUDES THE FOLLOWING AT A MINIMUM:

- A. PROVIDING SHOP DRAWINGS FOR METAL BUILDING DIMENSIONS, CONNECTIONS, AND STRUCTURING. B. PRE-ENGINEERED METAL BUILDING DIMENSIONS, CONNECTIONS, AND STRUCTURING. C. COMPONENTS ON SITE. D. PROVIDING CONTRACT DOCUMENTS TO INCLUDE: 1. BUILDING/WEATHER PANEL GLAZING AS SHOWN ON ARCHITECTURAL DRAWINGS. 2. FINISH/DOOR/DOOR-OUT AS REQUIRED BY THE ARCHITECT.

- 3.2 ALL STRUCTURAL STEEL USED FOR PRE-ENGINEERED BUILDING COMPONENTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN CONFORMANCE WITH THE LATEST EDITION OF THE AISC LATEST EDITION.

- 3.3 THE DESIGN FOR ALL PRE-ENGINEERED BUILDING MEMBERS AND EMBLEMENT SHALL BE THE RESPONSIBILITY OF THE ARCHITECT. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL PRE-ENGINEERED BUILDING MEMBERS AND EMBLEMENT.

- 3.4 THE DESIGN OF ALL PRE-ENGINEERED COMPONENTS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL PRE-ENGINEERED COMPONENTS.

- 3.5 BASES OF COLUMNS SHALL BE DESIGNED AS PINNED SUPPORTS.

- 3.6 ALL BUILDING COMPONENTS SHALL BE COMPATIBLE WITH THE DESIGN OF THE BUILDING FRAME. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL BUILDING COMPONENTS.

- 3.7 FIELD WELDED CONNECTIONS FOR LIGHT GAUGE MEMBERS SHALL NOT BE PERMITTED WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT.

- 3.8 LATERAL STABILITY OF THE BUILDING FRAME SHALL BE PROVIDED IN THE STRUCTURAL FRAMING, WALLS AND OTHER BUILDING COMPONENTS SHALL NOT BE USED TO RESIST LATERAL LOADS UNLESS NOTED OTHERWISE.

- 3.9 CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL STRUCTURAL STEEL AND WELDED CONNECTIONS. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL STRUCTURAL STEEL AND WELDED CONNECTIONS.

- 3.10 CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL STRUCTURAL STEEL AND WELDED CONNECTIONS. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL STRUCTURAL STEEL AND WELDED CONNECTIONS.

CPA # 2018020527 - April 20, 2018



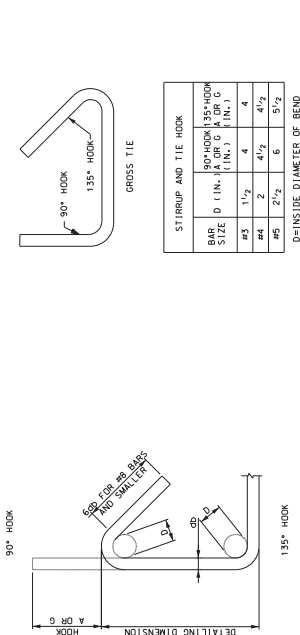
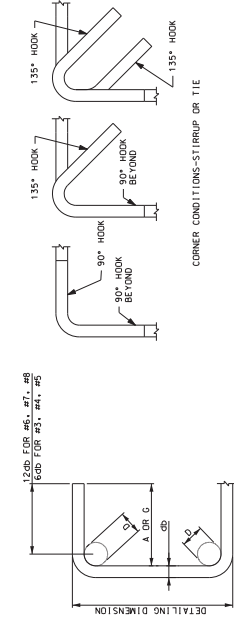
Robert J. Laddo
Professional Engineer
State of Ohio
No. 10012
Exp. 12/31/2020

IEA WHITE - HAVILAND
O&M BUILDING
PALMCO COUNTY, OH

SHEET:	GENERAL NOTES
REVISIONS:	0 ISSUE FOR CONSTRUCTION
TL: X	DEC: X
DATE: 09-14-18	PROJECT:
SHEET:	\$0.0

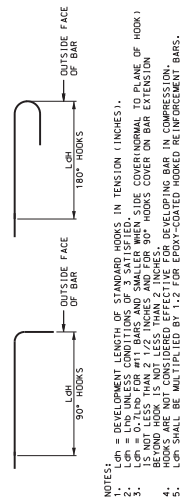
H2B INC.
1225 N. Loop W., Suite 600
Houston, TX 77008
713.664.1300
Texas Firm Registration No. 8806



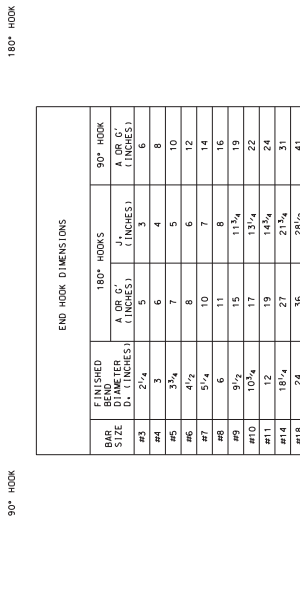
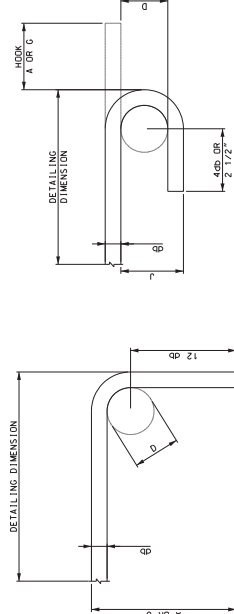


1 TYPICAL STIRRUP AND HOOK TIES
SCALE: NTS

DEVELOPMENT LENGTHS OF STANDARD HOOKS IN TENSION											
BAR SIZE	GRADE 60 REINFORCEMENT - NORMAL CONCRETE										
	f _c =3000 PSI	f _c =4000 PSI	f _c =5000 PSI	f _c =6000 PSI	f _c =7000 PSI	f _c =8000 PSI	f _c =9000 PSI	f _c =10000 PSI	f _c =11000 PSI	f _c =12000 PSI	f _c =13000 PSI
#3	12	13	14	15	16	17	18	19	20	21	22
#4	14	15	16	17	18	19	20	21	22	23	24
#5	16	17	18	19	20	21	22	23	24	25	26
#6	18	19	20	21	22	23	24	25	26	27	28
#7	20	21	22	23	24	25	26	27	28	29	30
#8	22	23	24	25	26	27	28	29	30	31	32
#9	24	25	26	27	28	29	30	31	32	33	34
#10	26	27	28	29	30	31	32	33	34	35	36
#11	28	29	30	31	32	33	34	35	36	37	38
#12	30	31	32	33	34	35	36	37	38	39	40
#13	32	33	34	35	36	37	38	39	40	41	42
#14	34	35	36	37	38	39	40	41	42	43	44
#15	36	37	38	39	40	41	42	43	44	45	46
#16	38	39	40	41	42	43	44	45	46	47	48
#17	40	41	42	43	44	45	46	47	48	49	50
#18	42	43	44	45	46	47	48	49	50	51	52



3 TYPICAL DEVELOPMENT LENGTHS FOR HOOKS
SCALE: NTS

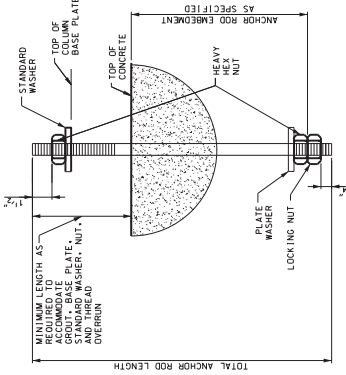


2 TYPICAL END HOOK DIMENSIONS
SCALE: NTS

SLAB TENSION DEVELOPMENT AND LAP SPICE LENGTHS											
BAR SIZE	GRADE 60 REINFORCEMENT - NORMAL CONCRETE										
	f _c =3000 PSI	f _c =4000 PSI	f _c =5000 PSI	f _c =6000 PSI	f _c =7000 PSI	f _c =8000 PSI	f _c =9000 PSI	f _c =10000 PSI	f _c =11000 PSI	f _c =12000 PSI	f _c =13000 PSI
#3	12	13	14	15	16	17	18	19	20	21	22
#4	14	15	16	17	18	19	20	21	22	23	24
#5	16	17	18	19	20	21	22	23	24	25	26
#6	18	19	20	21	22	23	24	25	26	27	28
#7	20	21	22	23	24	25	26	27	28	29	30
#8	22	23	24	25	26	27	28	29	30	31	32
#9	24	25	26	27	28	29	30	31	32	33	34
#10	26	27	28	29	30	31	32	33	34	35	36
#11	28	29	30	31	32	33	34	35	36	37	38
#12	30	31	32	33	34	35	36	37	38	39	40
#13	32	33	34	35	36	37	38	39	40	41	42
#14	34	35	36	37	38	39	40	41	42	43	44
#15	36	37	38	39	40	41	42	43	44	45	46
#16	38	39	40	41	42	43	44	45	46	47	48
#17	40	41	42	43	44	45	46	47	48	49	50
#18	42	43	44	45	46	47	48	49	50	51	52

- NOTES:
- THIS TABLE SHALL BE USED FOR SLAB ONLY.
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4 TYPICAL DEVELOPMENT LENGTHS
SCALE: NTS



- NOTES:
- REFER TO PRE-ENGINEERED METAL BUILDING PLAN FOR ANCHOR ROD DIAMETER AND QUANTITY.
 - ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 36 WITH HEAVY HEX HEAD AND CONE POINT END.
 - ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 36 WITH HEAVY HEX HEAD AND CONE POINT END.
 - ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 36 WITH HEAVY HEX HEAD AND CONE POINT END.

5 TYPICAL ANCHOR BOLT DETAIL
SCALE: NTS

FOUNDATION GENERAL NOTES:
SEE PLAN FOR SLAB THICKNESS AND REINFORCEMENT.
REINFORCEMENT SHALL BE 1" DIA. #5 BARS.
TOP COVER OVER 10 MIL VAPOR BARRIER AND 2" (MAX.)
COMPACTED SAND CUSHION ON PREPARED SUBGRADE.
CONCRETE SHALL BE 4000 PSI STRENGTH.
PAD TO GRADE SHALL BE PREPARED IN ACCORDANCE WITH
THE SPECIFICATIONS FOR FOUNDATION PREPARATION
AND THE GEOTECHNICAL ENGINEER'S REPORT.

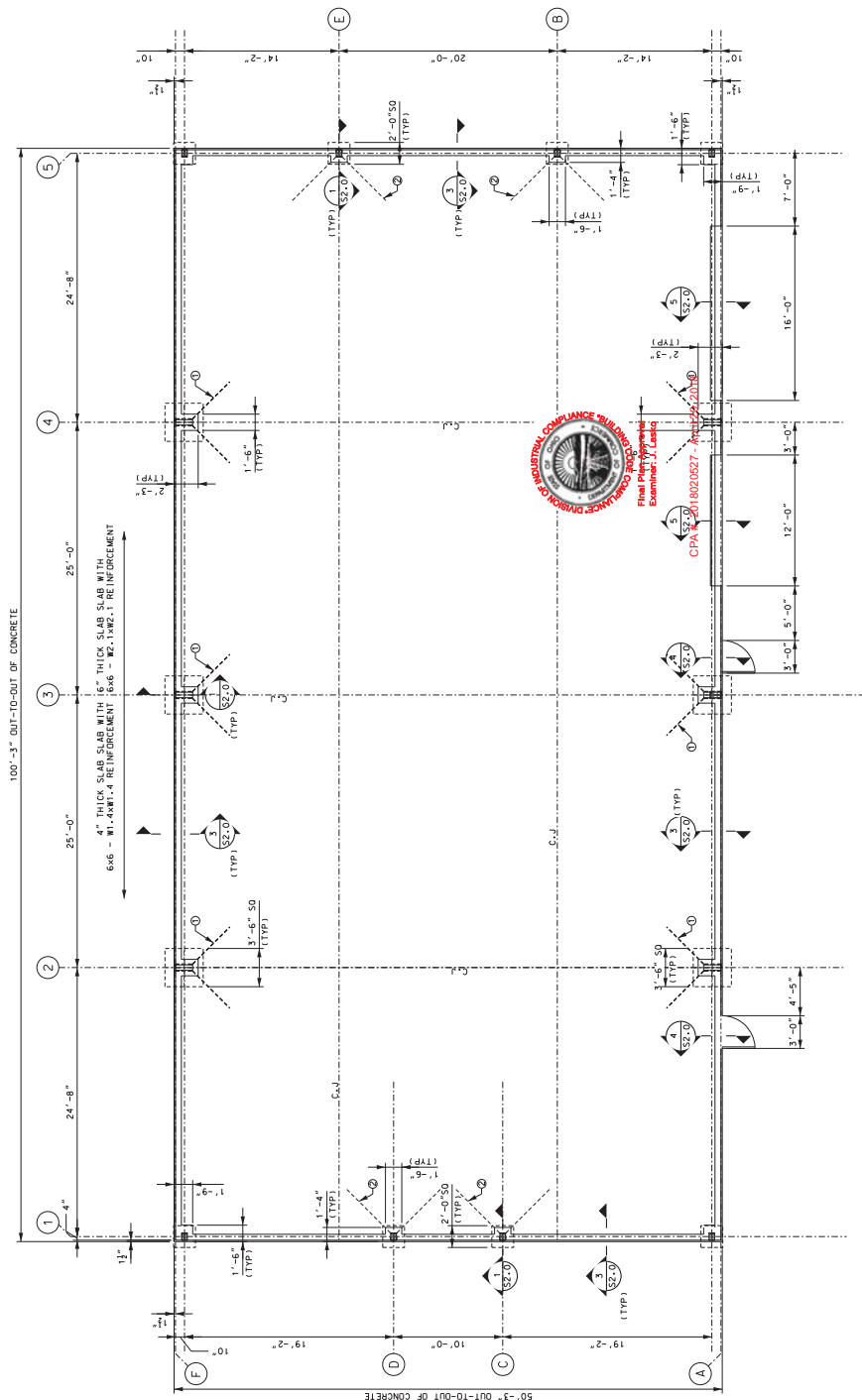
ANCHOR BOLT NOTE:
CONCRETE SETTING PLAN WITH THE ANCHOR
BOLT SETTING PLAN SUPPLIED BY THE OWNER AND
COMPLETED BY MESO BUILDING SOLUTIONS JOB
NO. 16-S-31440-B DATED 2/26/18.

NOTES:

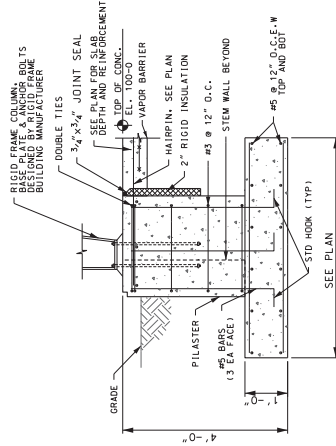
1. FOR CONCRETE GENERAL NOTES, SEE DWG
2. SEE DETAIL 5/SO.1 FOR ANCHOR BOLT DETAIL.
3. SEE DETAIL 5/SO.1 FOR ANCHOR BOLT DETAIL.
4. C-J-J - CONTROL JOINT (REF: 2/SO.1)

CONSTRUCTION NOTES:

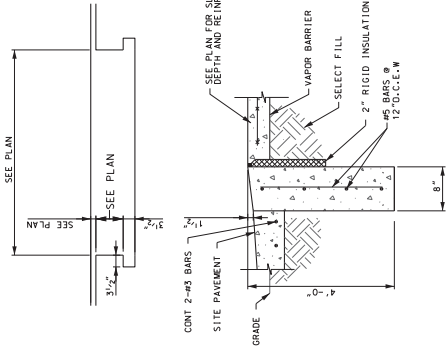
- 1) PROVIDE TWO (2) #5 X 12'-4" LONG HAIRPIN
REINFORCEMENT AT CENTERLINE OF
COLUMN (TYPICAL 6 LOCATIONS)
- 2) PROVIDE ONE (1) #5 X 12'-4" LONG HAIRPIN
AT EACH COLUMN 45 DEGREES TO CENTERLINE OF
COLUMN (TYPICAL 4 LOCATIONS)



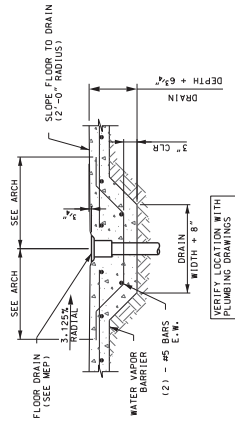
1 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



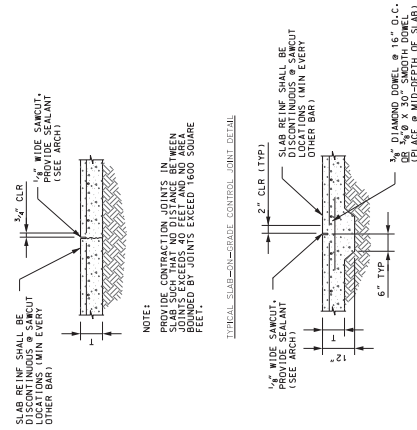
1 SPREAD FOOTING DETAIL
SCALE: NTS



5 PERIMETER BEAM SECTION AT OVERHEAD DOOR
SCALE: NTS



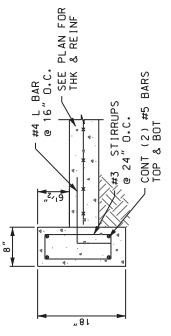
9 FLOOR DRAIN DETAIL
SCALE: NTS



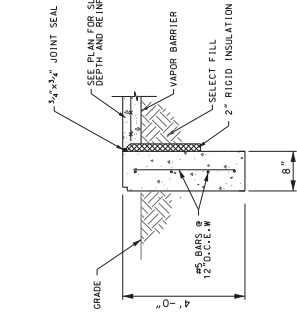
TYPICAL SLAB-ON-GRADE CONSTRUCTION JOINT DETAIL

- SAMCUT NOTES:
1. SAMCUT SLAB BETWEEN 6-8 HOURS AFTER FINISH (2-4 HOURS FOR 10,000 PSI CONCRETE).
 2. SAMCUT CUTTER SHALL BE 1/2" WIDE. THE SLAB THICKNESS "T" BUT NOT LESS THAN 1 1/2" INCHES IS GREATER; SAMCUT DEPTH SHALL BE ONE (1) INCH MINIMUM FOR EACH ENTER DRY-CUT SAW.
 3. SAMCUT CUTTER SHALL BE 1/2" WIDE. THE SLAB THICKNESS "T" BUT NOT LESS THAN 1 1/2" INCHES IS GREATER; SAMCUT DEPTH SHALL BE ONE (1) INCH MINIMUM FOR EACH ENTER DRY-CUT SAW.
 4. SPACING OF CONSTRUCTION/CONTROL JOINTS SHALL BE NO FURTHER THAN 18 FEET POSSIBLE.

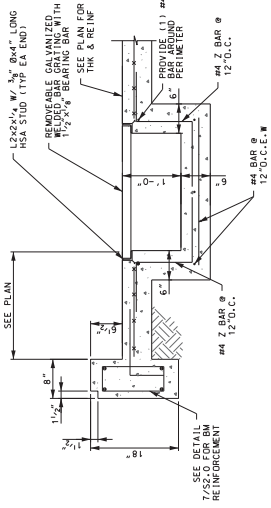
2 TYPICAL SLAB JOINT DETAILS
SCALE: NTS



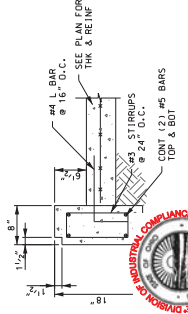
6 PERIMETER BEAM-OIL SHED
SCALE: NTS



3 PERIMETER STRIP FOOTING DETAIL
SCALE: NTS



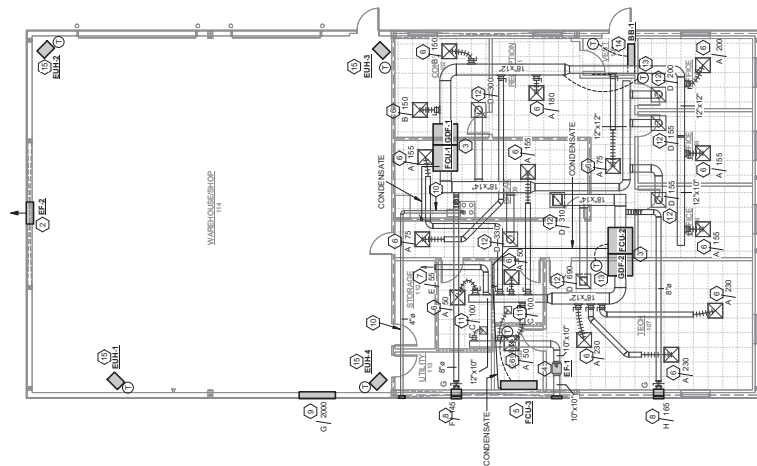
8 SUMP PIT DETAIL-OIL SHED
SCALE: NTS



TER BEAM-OIL SHED
SCALE: NTS



CPA # 2018020527 - April 20, 2018



MECHANICAL LEGEND

- [illegible]

MECHANICAL GENERAL NOTES

- A. CONTRACTOR SHALL PROPERLY SEAL AND CAP ALL UNUSED DUCT TAPS AND NEW DUCTWORK. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE BUILDING ENGINEER.

KEYED NOTES

- [illegible]

CSA # 2019020822 April 20, 2019

AIR DEVICE SCHEDULE								
TAG	SERVICE	MANUFACTURER AND MODEL	FACE SIZE	NECK SIZE	CFM	FINISH	MATERIAL	NOTES
A	SUPPLY	PERFORMED LAY-IN BY SUBMITTAL	24"x24"	6"	0-100	WHITE	STEEL	1,2,3
				8"	101-225			
				10"	226-325			
B	VAV SUPPLY	PERFORMED LAY-IN (WITH RELIEF RING) BY SUBMITTAL	24"x24"	8"	SEE PLAN	WHITE	STEEL	1,2,3
C	EXHAUST	LAY-IN BY SUBMITTAL	12"x12"	8"	SEE PLAN	WHITE	STEEL	2,3
D	RETURN	LAY-IN BY SUBMITTAL		10"	0-350	WHITE	STEEL	3
				12"	351-550			
			12"x12"	551-700				
E	SIDEWALL SUPPLY	BY SUBMITTAL	10"x8"	8"Ø"	SEE PLAN	-	-	1,2,3

NOTES:
1. AWAY UNLESS SHOWN DIFFERENT
2. PROVIDE PROPER INSTALLATION WORK KIT BASED ON CEILING TYPE THAT DIFFERS IS BEING INSTALLED ON
3. PROVIDE PROPER INSTALLATION WORK KIT BASED ON CEILING TYPE THAT DIFFERS IS BEING INSTALLED ON

NOTES:

1. 4-WAY UNLESS SHOWN DIFFERENT
2. PROVIDE OPP BLADE DAMPER AT EACH SUPPLY OR EXH UNLESS BALANCING DAMPER IS PROVIDED AT RUNOUT TAKEOFF
3. PROVIDE PROPER INSTALLATION TRIM KIT BASED ON CEILING TYPE THAT DIFFUSER IS BEING INSTALLED ON.

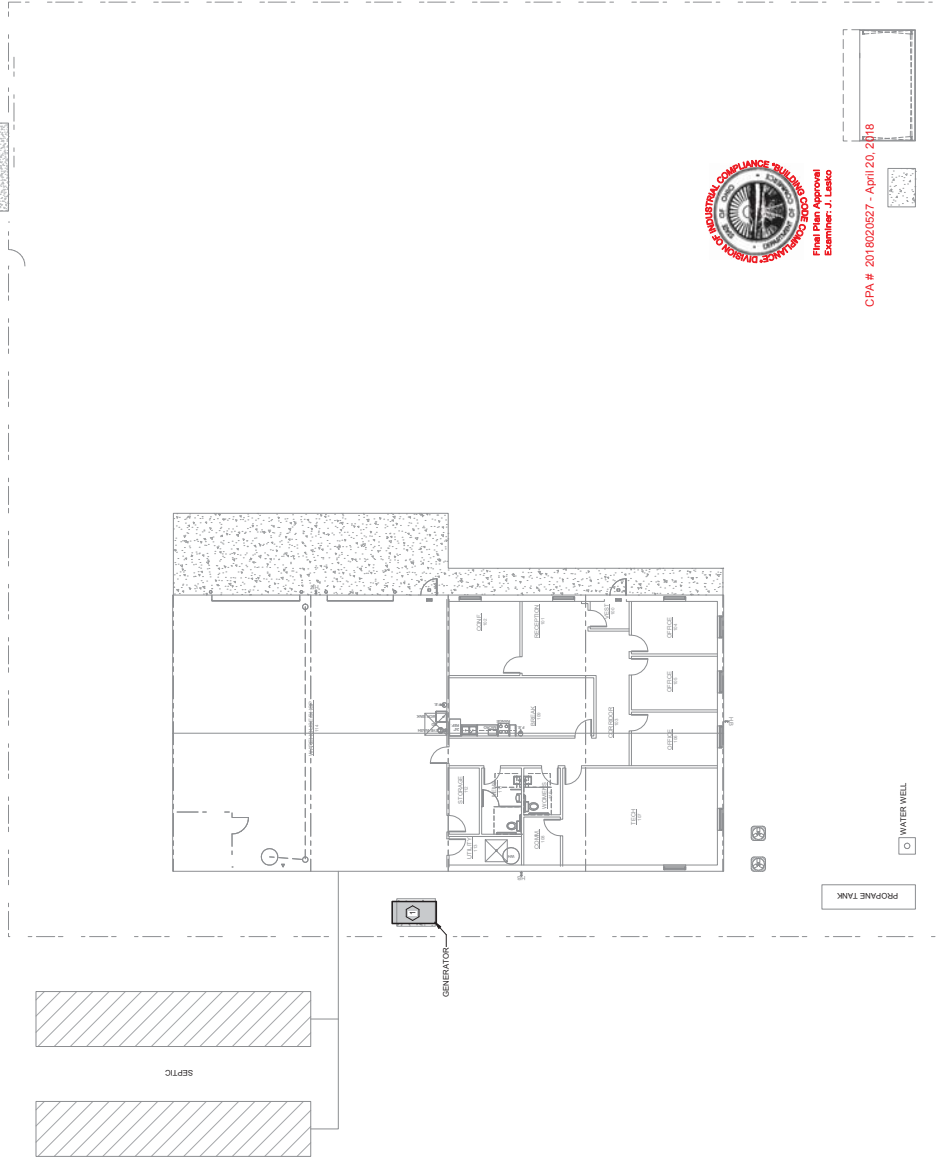


SITE PLAN GENERAL NOTES

- A. PLAN REPRESENTS ENGINEERS PROPOSED DESIGN. COORDINATE LOCATION OF ALL EQUIPMENT WITH OWNER AND UTILITY.
- B. UNDERGROUND SITE WORK: CONTRACTOR IS REQUIRED TO USE LINE LOCATING SERVICES TO IDENTIFY ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGES TO ANY EXISTING UTILITY LINES CAUSED BY EXCAVATION AND SUBSEQUENT REPAIR OF UTILITY LINE DAMAGES.
- C. SPECIFIC LOCATIONS OF ALL UTILITIES BURIED ON THE ENTIRE SITE.

KEYED NOTES

- 1. PROPOSED GENERATOR LOCATION. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.



CPA # 2018020527 - April 20, 2018

1 ELECTRICAL SITE PLAN

3/24" = 1'-0"

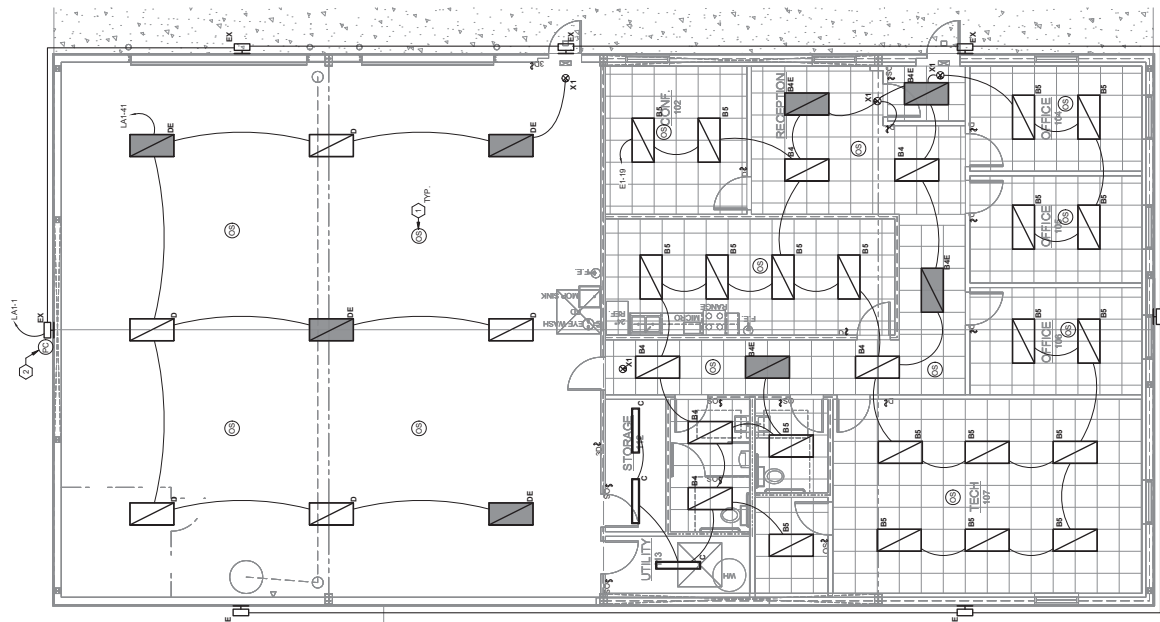
E200

LIGHTING GENERAL NOTES

- [illegible]

KEYED NOTES

- 1 OCCUPANCY SENSOR WITHIN WAREHOUSE SHALL BE ACUITY #CQMRB OR
EQUIVALENT. COORDINATE LOCATION WITH EQUIPMENT LAYOUT PRIOR TO
INSTALLATION.
- 2 EXTERIOR LIGHTS TO BE CONTROLLED BY ACUITY #SBO-6-0EX-P OR
EQUIVALENT PHOTOCELL.



LIGHTING PLAN

1) $\frac{\text{LIGHT}}{3'16'' = 1'-0''}$

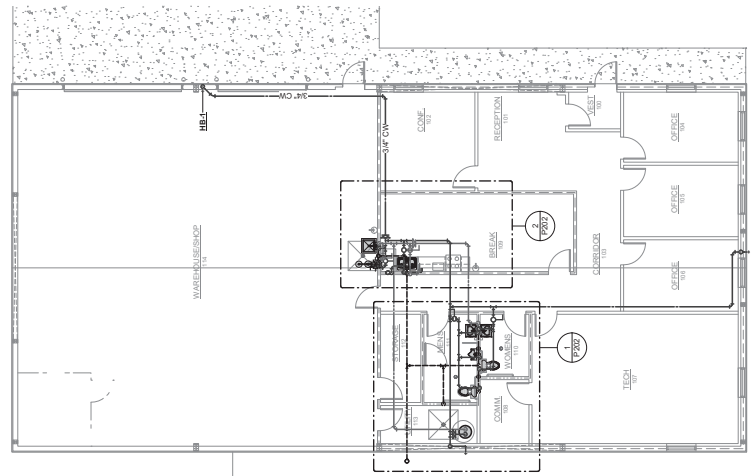
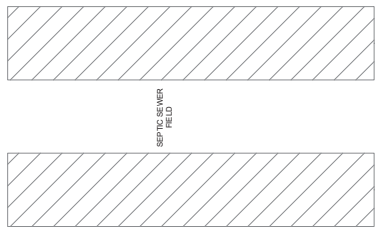


CPA # 2018020527 - April 20, 2018

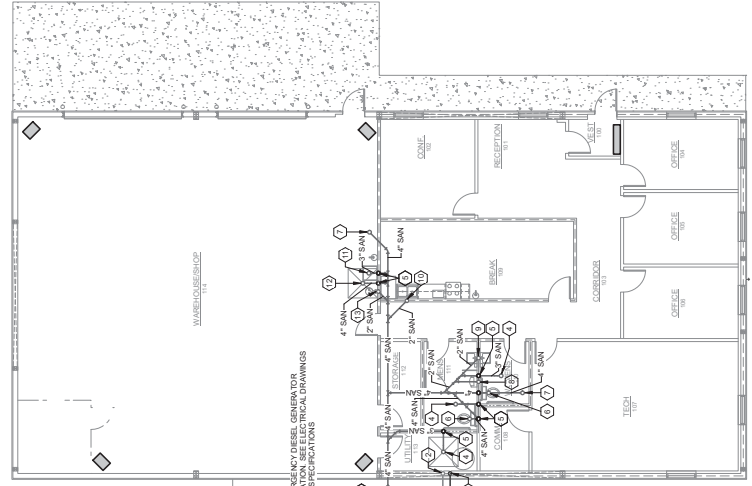
1 ELECTRICAL POWER PLAN

KEYED NOTES

1. 4" SANITARY WASTE UP TO TWO-WAY
2. 4" SANITARY WASTE UP TO FLOOR DRAIN
3. PROPAANE GAS PIPING UP
4. COLD WATER PIPING UP
5. 3" SANITARY WASTE UP TO FLOOR DRAIN
6. 2" SANITARY VENT UP
7. 4" SANITARY WASTE UP TO WATER CLOSET
8. 2" SANITARY WASTE UP TO URINAL
9. 2" SANITARY WASTE UP TO BATHROOM
10. 2" SANITARY WASTE UP TO SINK
11. 3" SANITARY WASTE UP TO MOP SINK
12. 4" SANITARY WASTE UP TO FLOOR DRAIN
13. 2" SANITARY WASTE UP TO EMERGENCY EYE WASH & SHOWER

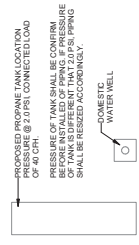


2 PLUMBING ABOVEFLOOR PLAN
1/8" = 1'-0"



PLUMBING GAS EQUIPMENT SCHEDULE

MARK	DESCRIPTION	FUEL TYPE	UPPROPANE
GDF-1	GAS DUCT FURNACE	PROPANE	48
Grand total			

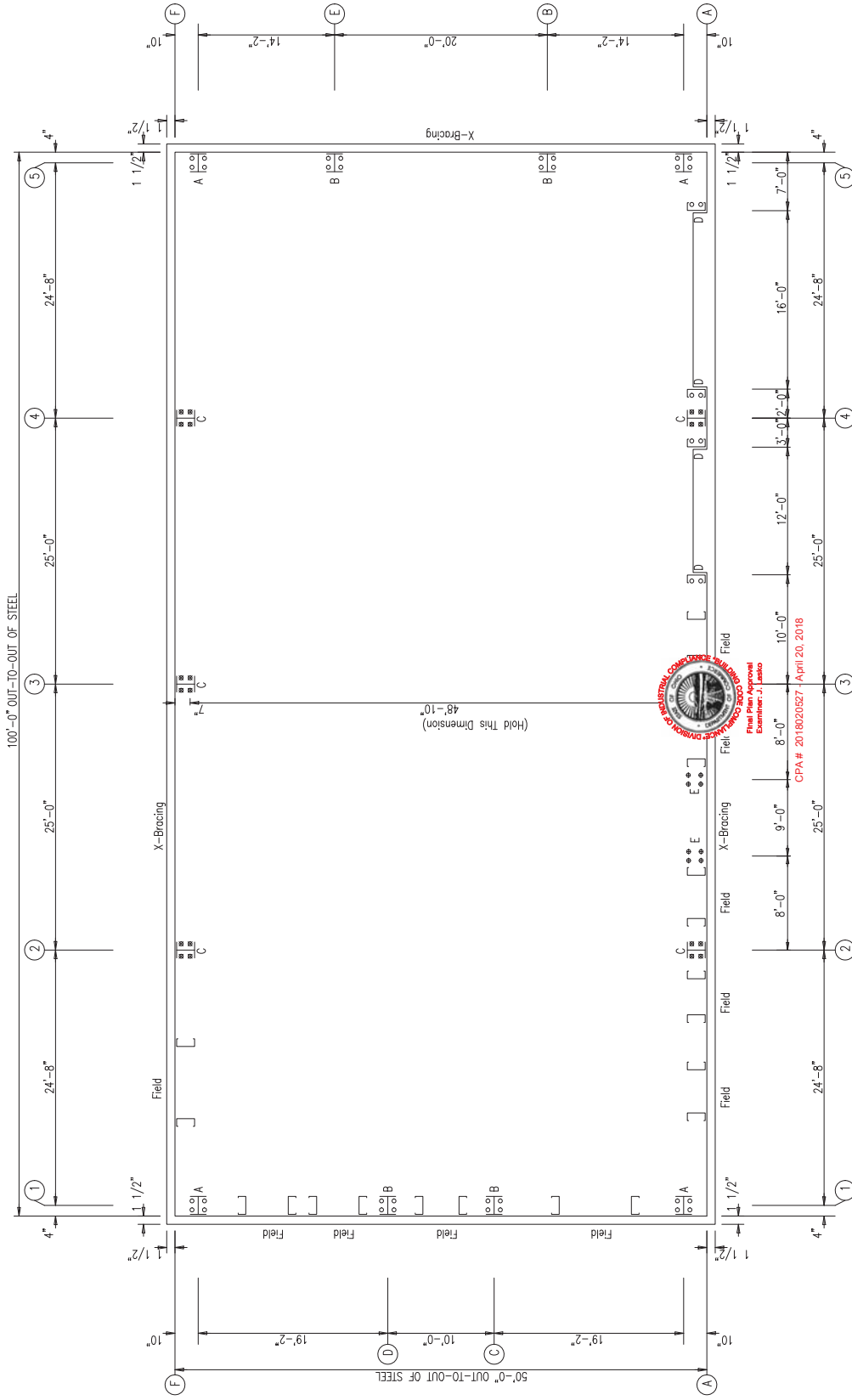


1 PLUMBING UNDERFLOOR PLAN
1/8" = 1'-0"

- ## KEYED NOTES

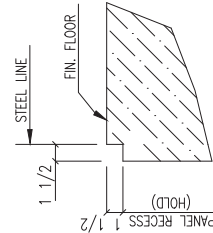


O Dia= 5/8"
X Dia= 3/4"



ANCHOR BOLT PLAN

NOTE: ALL BASE PLATES @ 100.0' (UN.)
ASSUMED FINISH FLOOR @ 100.0' (UN.)



CONCRETE NOTCH DETAIL

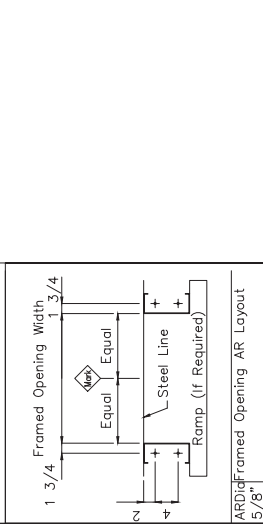
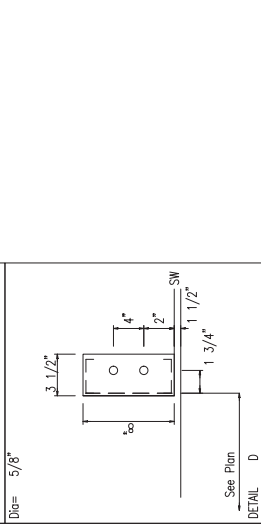
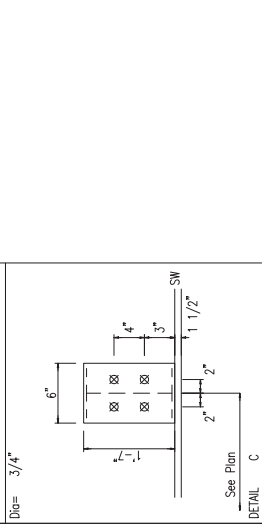
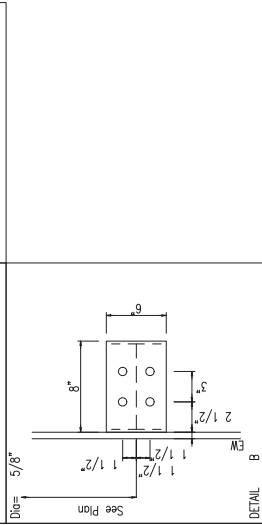
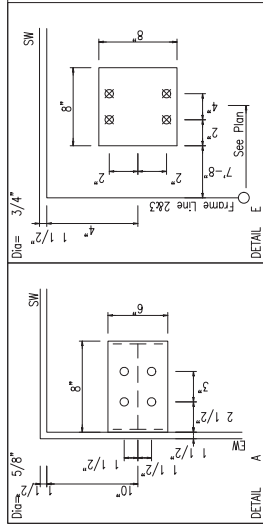
MESCO Building Solutions
5244 Bear Creek Court Irving, TX 75061
Voice 214-687-9999 Fax 214-687-9737

Mar 15, 2018
J. L. JANKO
E-47008
12/31/2018
PROFESSIONAL ENGINEER
STATE OF OHIO




ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/26/18	FOR ERECTOR INSTALLATION	TKK	MMH	AMK
1	3/13/18	REV FOR ERECTOR INSTALLATION	TKK	MMH	AMK

PROJECT:	EA WHITE-HAWLAND	OWNER:	EA WHITE
CUSTOMER:	MBA CONSTRUCTION		
LOCATION:	HAWLAND OH, 45651		

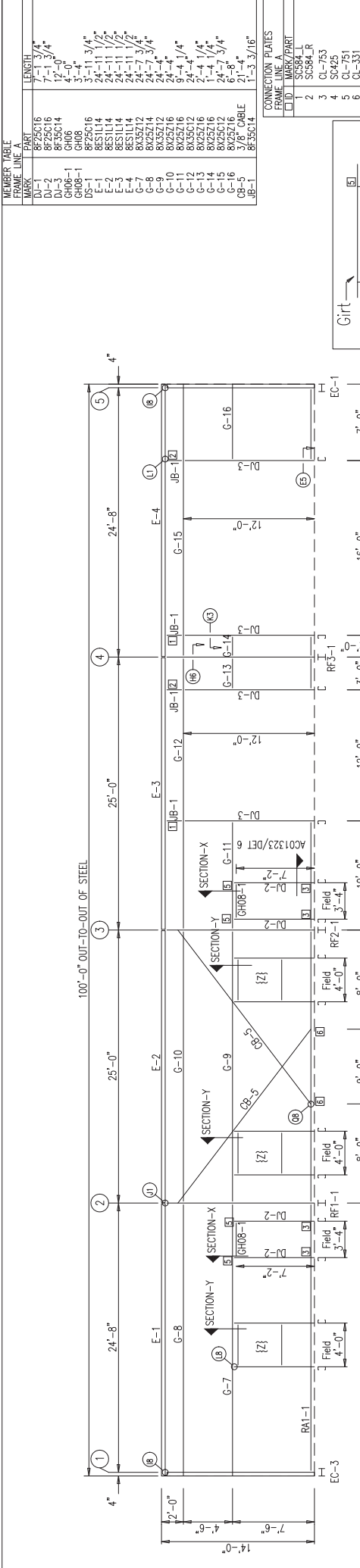
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	3/13/18	N.T.S.	1	A	16-B-37440-B	F1	1



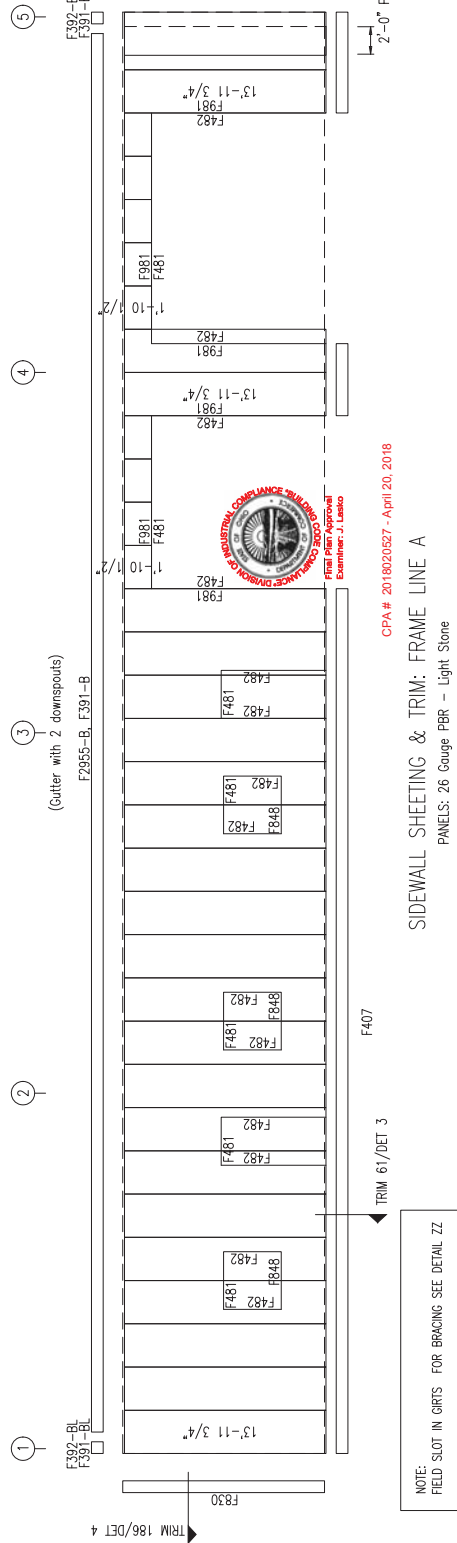
CPA # 2018020527 - April 20 2018

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN	<div>  <div> MESCO Building Solutions 5244 Bear Creek Court Irving, TX 75061 Voice 214-687-9999 Fax 214-687-9737 </div> </div>									
0	2/26/18	FOR ERECTOR INSTALLATION	TWK	MHH	AMK	<div>  <div> MESCO Building Solutions 5244 Bear Creek Court Irving, TX 75061 Voice 214-687-9999 Fax 214-687-9737 </div> </div>									
1	3/13/18	REV FOR ERECTOR INSTALLATION	TWK	MHH	AMK	<div>  <div> MESCO Building Solutions 5244 Bear Creek Court Irving, TX 75061 Voice 214-687-9999 Fax 214-687-9737 </div> </div>									
PROJECT: IEA WHITE-HAWLAND						OWNER: IEA WHITE									
CUSTOMER: MBA CONSTRUCTION						LOCATION: HAWLAND OH, 45851									
DATE: 3/13/18						PHASE: 1						JOB NUMBER: 16-B-37440-B			
SCALE: N.T.S.						BUILDING ID: A						SHEET NUMBER: F3			
ISSUE: 1															





SIDEWALL FRAMING: FRAME LINE A



NOTE:
FIELD SLOT IN GIRTS FOR BRACING SEE DETAIL ZZ

SIDEWALL SHEETING & TRIM: FRAME LINE A
PANELS: 26 Gauge PBR - Light Stone

GENERAL NOTES:
1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
4. AFTER INSTALLATION, Wipe All Panels Clean of Metal Shavings Caused by Drilling.

MESCO Building Solutions
5244 Bear Creek Court Irving, TX 75061
Voice 214-687-9999 Fax 214-687-9737

PROJECT: EA WHITE-HAWLAND
CUSTOMER: MRA CONSTRUCTION
LOCATION: HAWLAND OH. 45651
OWNER: EA WHITE

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/26/18	FOR ERECTOR INSTALLATION	TKX	MMH	AMK
1	3/13/18	REV FOR ERECTOR INSTALLATION	TKX	MMH	AMK

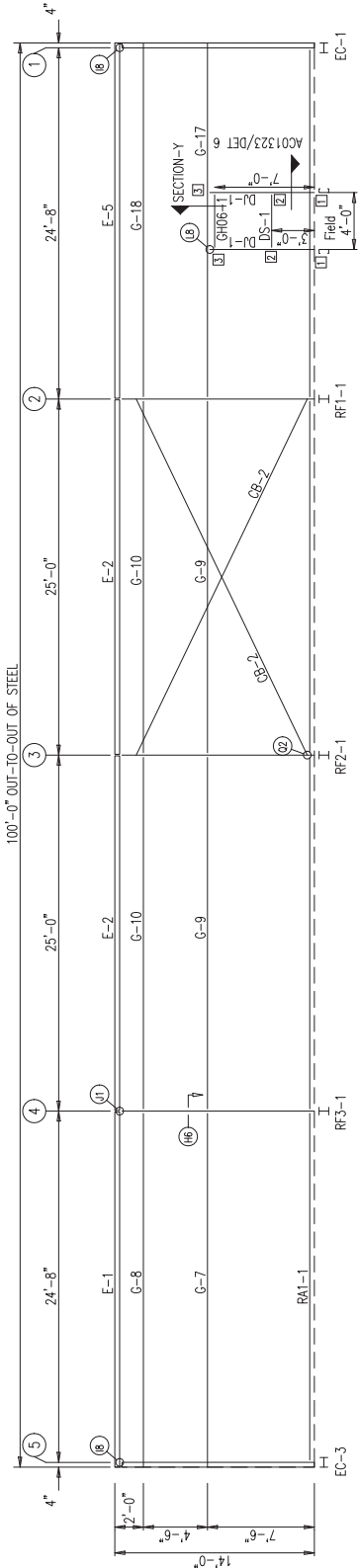
PHASE	SCALE	DATE	DATE	DATE	DATE
1	N.T.S.	3/13/18	3/13/18	3/13/18	3/13/18

SHEET NUMBER	JOB NUMBER	BUILDING ID	PHASE	SCALE	DATE
E3	16-B-37440-B	A	1	N.T.S.	3/13/18

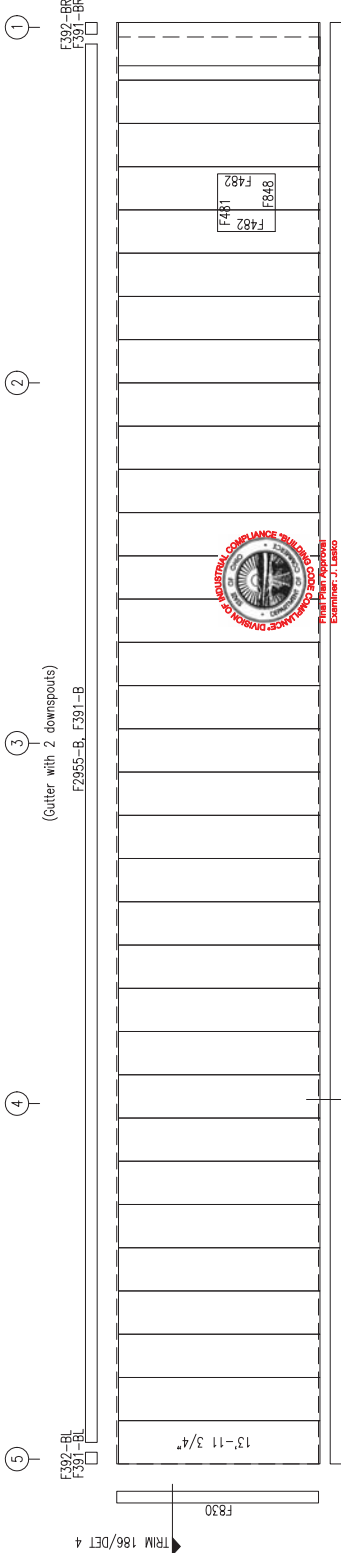
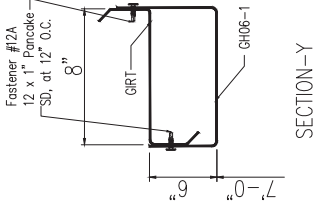


MEMBER TABLE		
MARK	PART	LENGTH
DU-1	8725016	7'-0" 3/4"
DU-2	8725016	4'-0"
DS-1	8725016	3'-11" 3/4"
E-1	8ES1114	24'-11" 1/2"
E-2	8ES1114	24'-11" 1/2"
E-3	8ES1114	24'-11" 1/2"
E-4	8ES1114	24'-11" 1/2"
E-5	8ES1114	24'-11" 1/2"
G-1	8X35212	24'-7" 3/4"
G-2	8X35212	24'-7" 3/4"
G-3	8X35212	24'-7" 3/4"
G-4	8X35212	24'-7" 3/4"
G-5	8X35212	24'-7" 3/4"
G-6	8X35212	24'-7" 3/4"
G-7	8X35212	24'-7" 3/4"
G-8	8X35212	24'-7" 3/4"
G-9	8X35212	24'-7" 3/4"
G-10	8X35212	24'-7" 3/4"
G-11	8X35212	24'-7" 3/4"
G-12	8X35212	24'-7" 3/4"
G-13	8X35212	24'-7" 3/4"
G-14	8X35212	24'-7" 3/4"
G-15	8X35212	24'-7" 3/4"
G-16	8X35212	24'-7" 3/4"
G-17	8X35212	24'-7" 3/4"
G-18	8X35212	24'-7" 3/4"
CB-1	3/8" CABLE	28'-5"
CB-2	3/8" CABLE	28'-5"

CONNECTION PLATES	
FRAME LINE F	MARK/PART
1	CL-753
2	SC425
3	CL-751



SIDEWALL FRAMING: FRAME LINE F



CPA # 2018020527 - April 20, 2018


SIDEWALL SHEETING & TRIM: FRAME LINE F

PANELS: 26 Gauge PBR - Light Stone

NOTE:
FIELD SLOT IN GIRTS FOR BRACING SEE DETAIL ZZ

GENERAL NOTES:	
1.	INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
2.	WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3.	OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
4.	AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

DOWNSPROUT SPACING LOCATIONS
DOWNSPROUTS ARE TO BE PLACED AT A SPACING NOT TO EXCEED 100 FT. WITH A
DOWNSPROUT WITHIN 100 FT. OF EACH END OF THE GUTTER RUN.

MESCO Building Solutions		5244 Bear Creek Court		Irving, TX 75061		Voice 214-687-9999		Fax 214-687-9737				
PROJECT: IEA WHITE-HAWLAND										OWNER: IEA WHITE		
CUSTOMER: MRA CONSTRUCTION												
LOCATION: HAWLAND OH, 45651												
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE					
	3/13/18	N.T.S.	1	A	16-B-37440-B	E4	1					
ISSUE		DATE	DESCRIPTION	BY	CK'D	DSN						
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1	3/13/18	TYK	MMH	AMK	TYK	MMH	AMK					

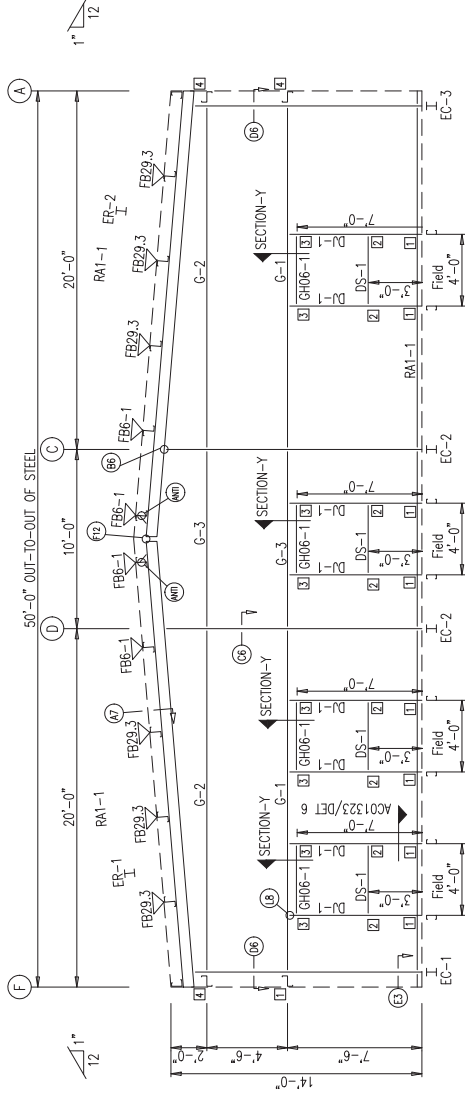


BOLT TABLE			
LOCATION	QUAN	TYPE	LENGTH
ER-1/FR-2	8	A325	5/8" 1 3/4"
Columns/Ref	4	A325	1/2" 1 1/4"

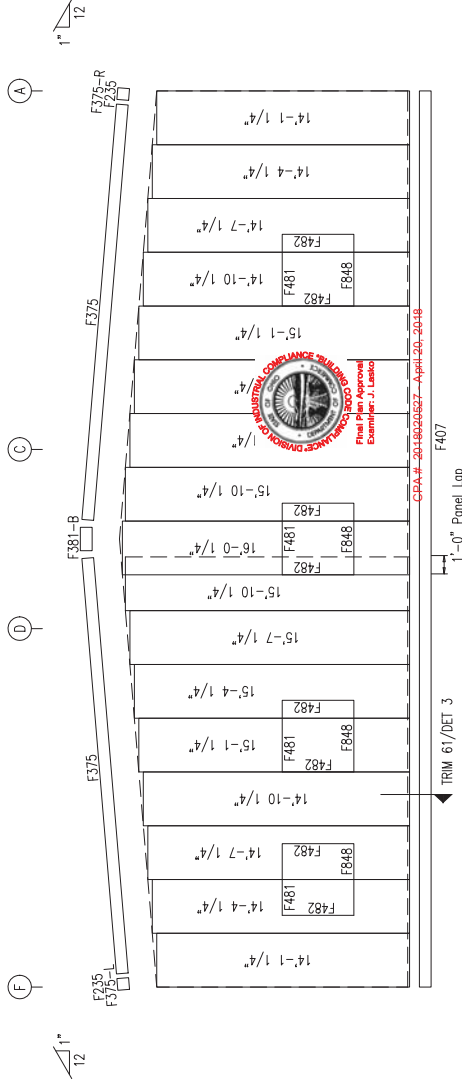
MEMBER TABLE			
FRAME LINE	MARK	TYPE	LENGTH
EC-2	WBX10	14"-2 13/16"	5/8"
EC-3	WBX10	12"-7 5/8"	5/8"
ER-1	WBX10	25"-0 13/16"	5/8"
ER-2	WBX10	25"-0 13/16"	5/8"
DS-1	8F25C-16	4"-0 3/4"	3/4"
DS-2	8F25C-16	3"-11 3/4"	3/4"
G-1	8X25Z16	18"-6"	6"
G-2	8X25Z16	18"-6"	6"
G-3	8X25Z16	9"-4"	4"

FLANGE BRACE TABLE			
FRAME LINE	TYPE	MARK	LENGTH
FR29.3	L2X214C	2'-5 1/4"	1/4"
FR6-1	L2X21/8"	2'-5 1/4"	1/4"

CONNECTION PLATES			
FRAME LINE	TYPE	MARK	LENGTH
1	CL-753		
2	SC425		
3	CL-751		
4	SC-5		



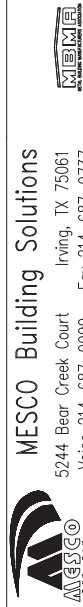
ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

BEARING FRAME ONLY!
WASHER TO BE USED AT ENDWALL COLUMN TO ENDWALL PLATE CONNECTION. USE ONE WASHER ON COLUMN SIDE. WASHER NOT NEEDED ON CLIP SIDE.

GENERAL NOTES:
1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.



MESCO Building Solutions
5244 Bear Creek Court Irving, TX 75061
Voice 214-687-9999 Fax 214-687-9737

PROJECT:	EA WHITE-HAWLAND
CUSTOMER:	MBA CONSTRUCTION
LOCATION:	HAWLAND OH, 45651
CAD:	
DATE:	3/13/18
SCALE:	N.T.S.
PHASE:	1
BUILDING ID:	A
JOB NUMBER:	16-B-37440-B
SHEET NUMBER:	E5
ISSUE:	1



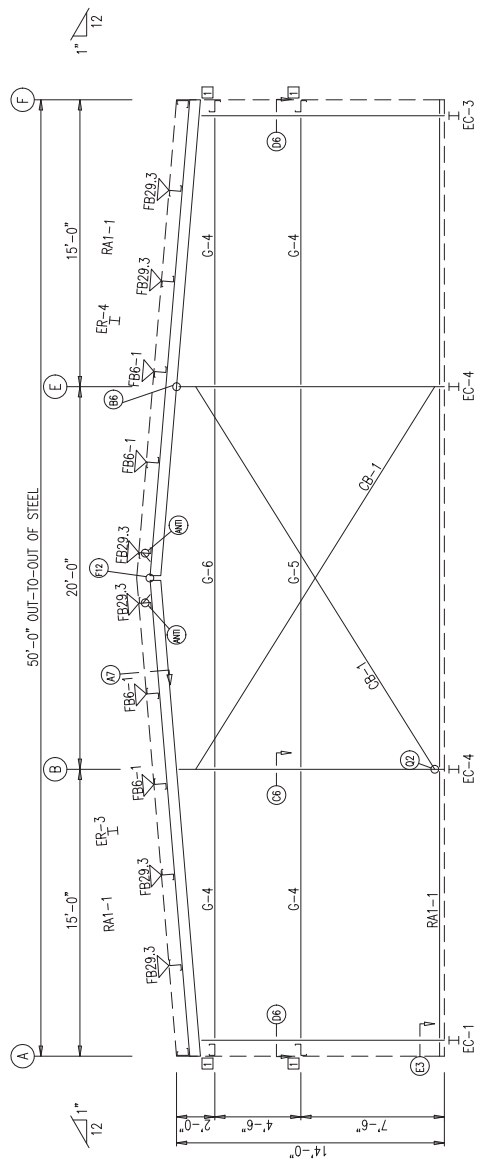
BOLT TABLE			
FRAME LINE	QUAN	TYPE	LENGTH
ER-3/ER-4	8	A325	5/8" 1 3/4"
Columns/Raft	4	A325	1/2" 1 1/4"

MEMBER TABLE			
FRAME LINE	MARK	TYPE	LENGTH
ER-3	WBX10	12'-7 5/8"	5/8"
ER-4	WBX10	13'-9 13/16"	15/16"
ER-3	WBX10	25'-0 13/16"	13/16"
ER-4	WBX10	25'-0 13/16"	13/16"
G-4	8X25216	13'-6"	6"
G-5	8X25216	19'-4"	4"
G-6	8X25216	19'-4"	4"
CB-1	1/4" CABLE	24'-3"	3"

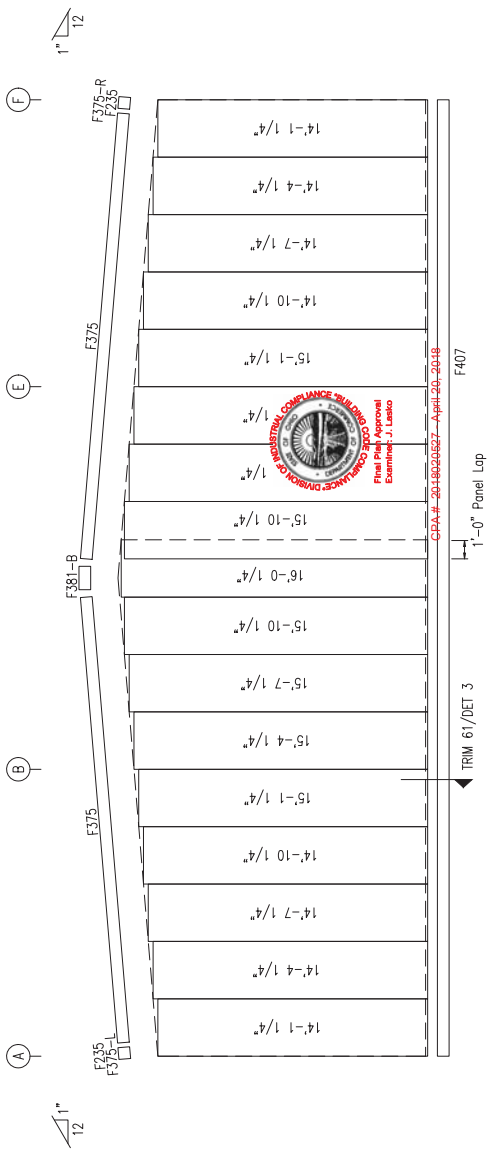
FLANGE BRACE TABLE			
FRAME LINE	TYPE	LENGTH	MARK
FB29.3	12X21/8"	2'-5 1/4"	
FB6-1	12X21/8"	2'-5 1/4"	

CONNECTION PLATES			
FRAME LINE	TYPE	LENGTH	MARK
CB-1	SC-5		

NOTE:
FIELD SLOT IN GRTS FOR BRACING SEE DETAIL ZZ



ENDWALL FRAMING: FRAME LINE 5



ENDWALL SHEETING & TRIM: FRAME LINE 5

BEARING FRAME ONLY!
WASHER TO BE USED AT ENDWALL COLUMN TO ENDWALL RAFTER CONNECTION. USE ONE WASHER ON COLUMN SIDE. WASHER NOT NEEDED ON CLIP SIDE.

- GENERAL NOTES:**
1. INSTALL ALL GRTS AND FLANGE BRACES (FB) AS SHOWN.
 2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
 3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
 4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAWINGS CAUSED BY DRILLING.

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5244 Bear Creek Court Irving, TX 75061
Voice 214-687-9999 Fax 214-687-9737

MESCO Building Solutions
5244 Bear Creek Court Irving, TX 75061
Voice 214-687-9999 Fax 214-687-9737

PROJECT:	EA WHITE-HAVLAND	OWNER:	EA WHITE
CUSTOMER:	MBA CONSTRUCTION	LOCATION:	HAWLAND OH. 45651
CAD		DATE	3/13/18
SCALE	N.T.S.	PHASE	1
BUILDING ID	A	JOB NUMBER	16-B-37440-B
SHEET NUMBER	E6	ISSUE	1



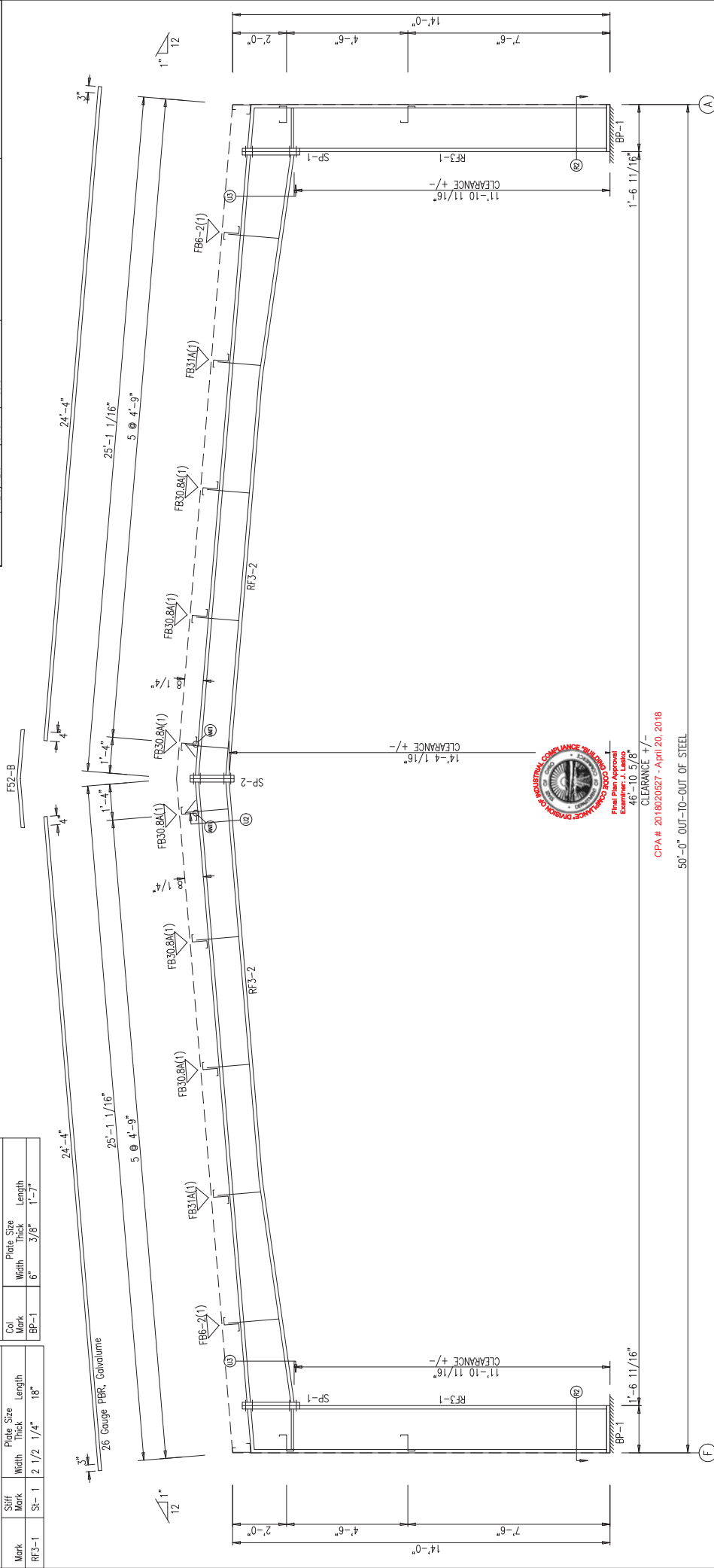
SPICE PLATE & BOLT TABLE									
Mark	Qty	Top	Bot	Int	Type	Dia	Length	Width	Thick
SP-1	4	4	4	0	A325	3/4"	2'-7/2"	6"	3/4"
SP-2	4	4	4	0	A325	3/4"	2'-6 7/8"	6"	1/2"

STIFFENER TABLE				
Mark	Sl	W	Th	L
RF3-1	1	2 1/2	1/4"	18"

BASE PLATE TABLE				
Col	Mark	W	Th	L
BP-1		6"	3/8"	1'-7"

FLANGE BRACES, BOTH SIDES (UNLESS NOTED)
 FB30.8A(1) 12X24X1/8" (in)
 FB6-2(1) 12X24X1/8" (in)
 A - 12X24X1/8"

MEMBER TABLE														
Mark	Web Depth		Web Plate		Outside Flange			Inside Flange						
	Start/End	Thick	Length	W	Thk	Length	W	Thk	Length	W	Thk	Length		
RF3-1	18.0/18.0	0.185	139.1	6	5/16"	139.0	6	5/16"	139.1	6	5/8"	139.1		
RF3-2	18.0/18.0	0.250	21.5	6	5/16"	18.3	6	5/16"	18.3	6	5/16"	102.3		
	18.0/12.0	0.185	102.2	6	5/16"	100.6	6	5/16"	100.6	6	5/16"	102.3		
	12.0/12.0	0.156	120.0	6	1/4"	180.0	6	1/4"	180.0	6	1/4"	179.0		
	12.0/12.0	0.134	60.0											



FRAME CROSS SECTION: FRAME LINE 4

GENERAL NOTES:

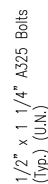
- SMG TIGHT - ALL BOLTED JOINTS WITH A325 TYPE 1 BOLTS ARE SPECIFIED AS SMG TIGHT. SEE SPECIFICATION SECTION 05110 FOR TIGHTENING METHODS, INCLUDING TURN-OF-NUT, CALIBRATED WRENCH, TWIST-OFF-TYPE TENSION-CONTROL BOLTS OR DIRECT TENSION INDICATOR ARE NOT REQUIRED. INSTALLATION INSPECTION REQUIREMENTS FOR SMG TIGHT BOLTS (SPECIFICATION FOR STRUCTURAL JOINTS SECTION 9.1) IS SUGGESTED.
- ALL FIELD WELDED CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH A325 MACHINE BOLTS
- INSTALL ALL FLANGE BRACES ON COLUMN AND RAFTER AS SHOWN

MESCO Building Solutions
 5244 Bear Creek Court Irving, TX 75061
 Voice 214-687-9999 Fax 214-687-9737

ISSUE	DATE	DESCRIPTION	BY	CHK'D	DSN
0	2/26/18	FOR ERECTOR INSTALLATION	TXK	MMH	AMK
1	3/13/18	REV FOR ERECTOR INSTALLATION	TXK	MMH	AMK

PROJECT	CUSTOMER	LOCATION	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
EA WHITE-HAWLAND	MBA CONSTRUCTION	HAWLAND OH, 45651	3/13/18	N.T.S.	1	A	16-B-37440-B	E9	1





A7



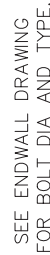
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BA
E5
April 20, 2018



(F12)

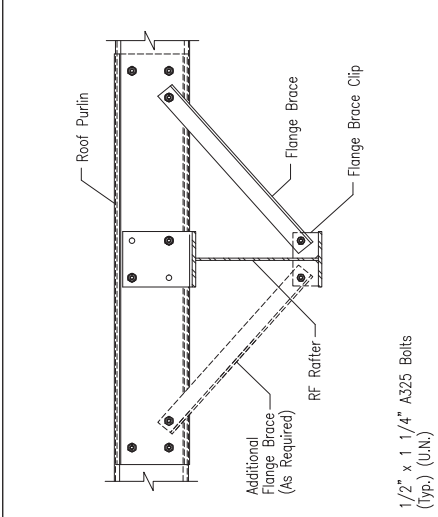
		MESCO Building Solutions 5244 Bear Creek Court Irving, TX 75061 Voice 214-687-9999 Fax 214-687-9737			
PROJECT: IEA WHITE-HAWLAND		OWNER: IEA WHITE			
CUSTOMER: MBK CONSTRUCTION					
LOCATION: HAWLAND OH, 45551					
CAD	DATE 3/13/78	SCALE NTS	PHASE 1	BUILDING ID A	JOB NUMBER 16-B-37440-R
				SHEET NUMBER	DET1

MESCO Building Solutions
44 Bear Creek Court Irving, TX 75061
Voice 214-687-9999 Fax 214-687-9737

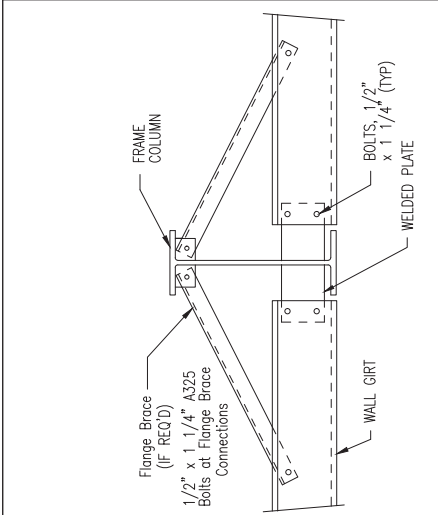


WBM
METAL BUILDING MANUFACTURERS ASSOCIATION

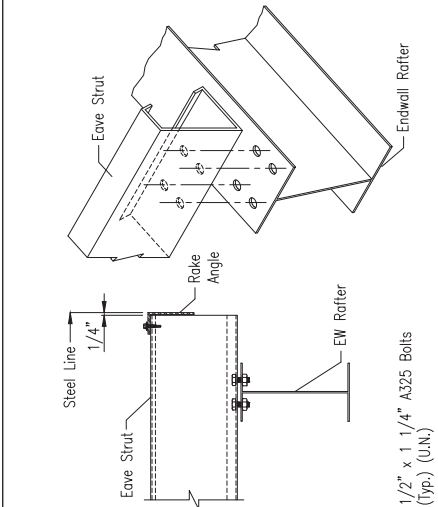
Mar 15, 2018



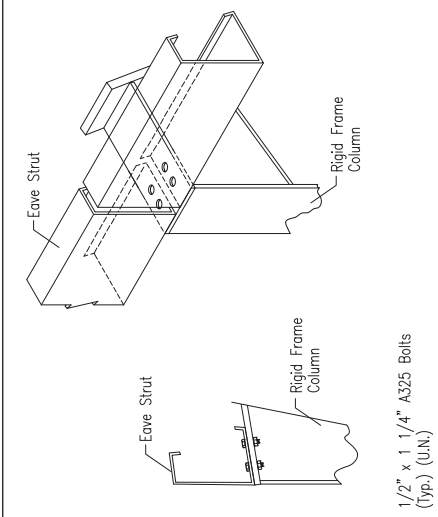
G2 ROOF PURLIN TO INTERIOR FRAME RAFTER



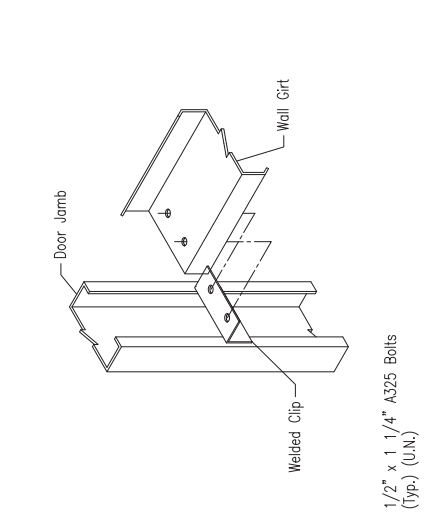
H6 WALL GIRT TO FRAME COLUMN



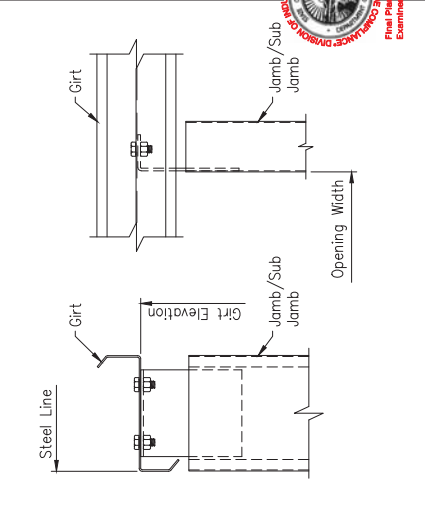
I8 LOW SIDE EAVE STRUT TO HOT ROLLED RAFTER



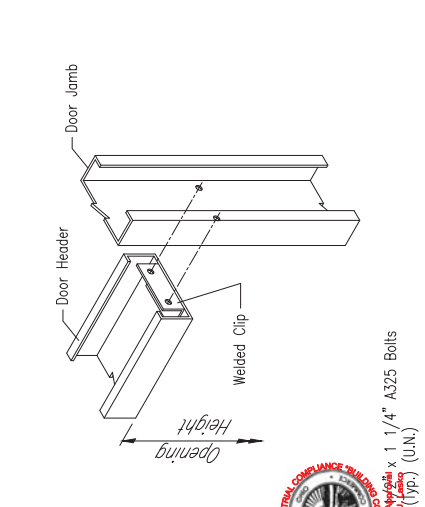
J1 EAVE STRUT TO RIGID FRAME



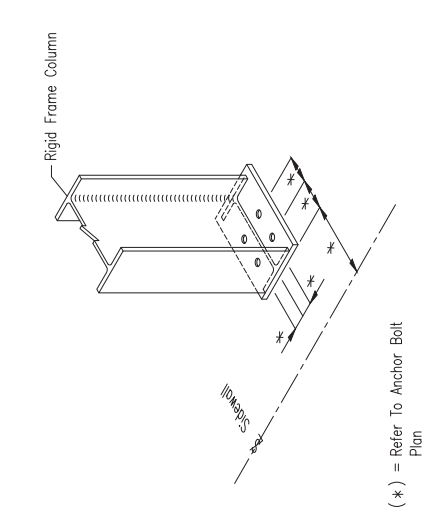
K3 WALL GIRT TO DOOR JAMB



L8 Single Cold Form Jamb / Sub Jamb To Girt




M3 DOOR HEADER TO DOOR JAMB



R2 ANCHOR BOLTS AT SIDEWALL COLUMNS

ISSUE	DATE	DESCRIPTION	BY	CHK'D	DSN
0	2/26/18	FOR ERECTOR INSTALLATION	TXK	MMH	AMK
1	3/13/18	REV FOR ERECTOR INSTALLATION	TXK	MMH	AMK

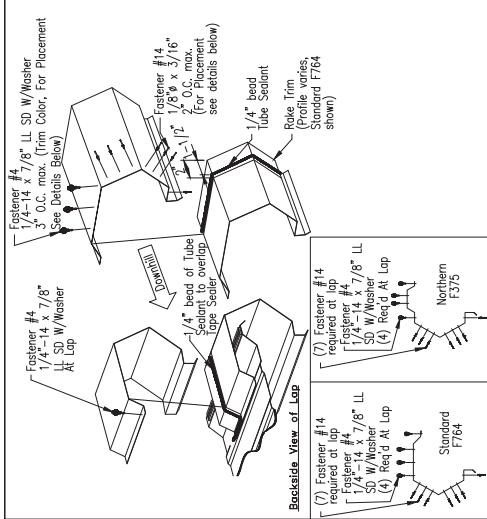
		52	VA
PROJECT:	IEA WHITE-HAVLAND		
CUSTOMER:	MBA CONSTRUCTION		
LOCATION:	HAVLAND OH, 45651		
CAD	DATE	3/13/18	

MESCO Building Solutions
 5244 Bear Creek Court Irving, TX 75061
 Voice 214-687-9999 Fax 214-687-9737

MBA Building Solutions

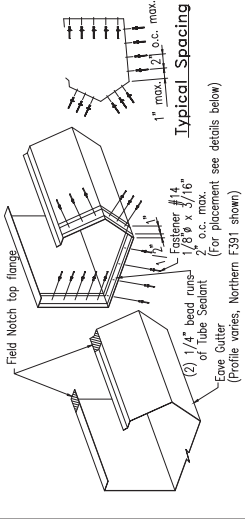
OWNER: EA WHITE



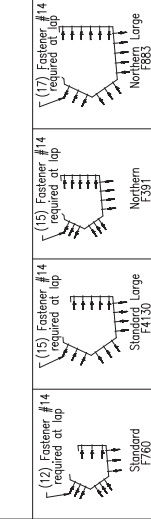


Rake Detail — PBR Roof
Classic Standard and Northern Rake End Lap Installation

TRIM_50

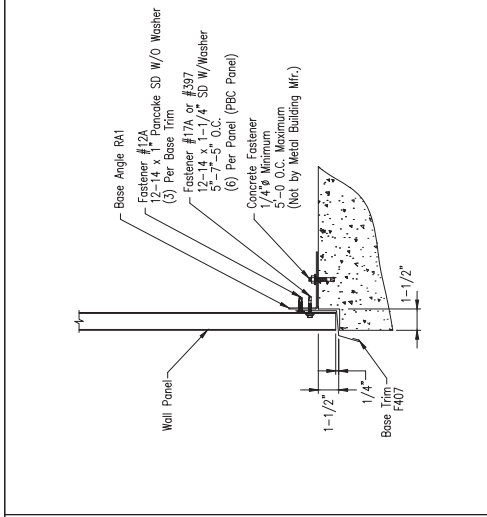


Typical Spacing
1" max. 12" O.C. max.



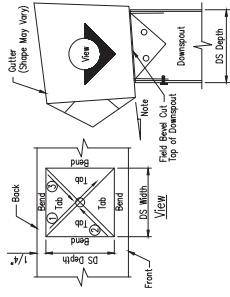
Eave Gutter End Lap Installation — PBR Roof
Classic Trim Profile

TRIM_90



Base Angle With Panel Recess
With Base Trim

TRIM_61



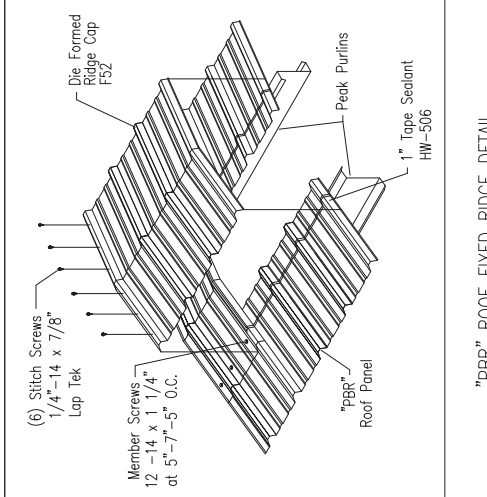
Downspout To Gutter Attachment Detail

1. Refer to the building section drawings for the location and spacing of the downspouts.
2. Locate all downspouts over a major panel rib if possible.
3. Make a cardboard template of the downspout shape. Place the template on the bottom of the gutter and trace the outline. Remove the template and draw the outline of the gutter.
4. Drill is wide at the center of the "X" using 1/8" pilot, cut along the lines of the X only. Do not cut along the outside lines of the downspout square.
5. Bend each triangular tab down toward the ground, 90 Degrees to the bottom of the gutter.
6. Position the top of the downspout under the gutter. Make sure all four gutter tabs are on the inside of the downspout.
7. Install fastener #14 through the downspout into the gutter tab. Only the top flange and the front of the downspout will receive fasteners.

CPA # 2018020587 - April 20, 2018

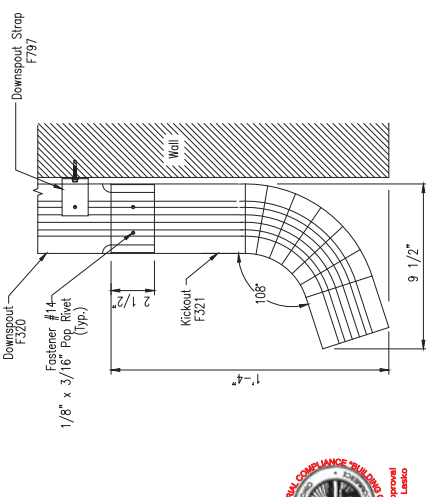


TRIM_98



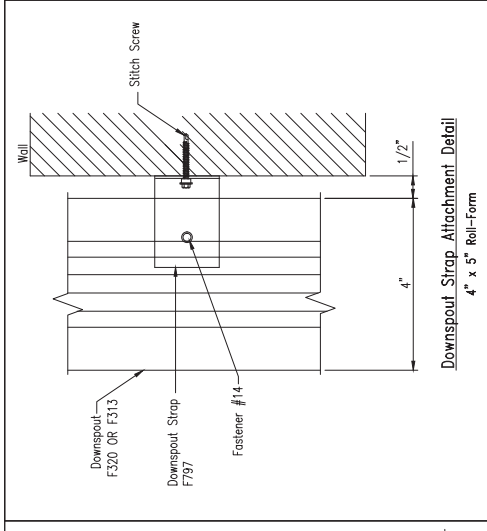
"PBR" ROOF FIXED RIDGE DETAIL
Trim_80

TRIM_80



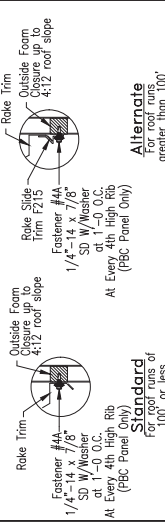
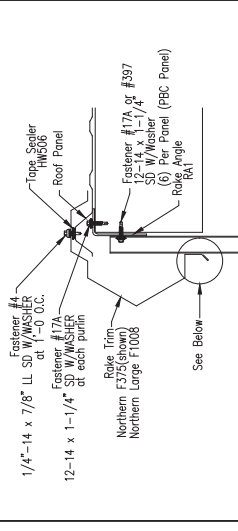
Downspout Kickout
4" x 5" Roll-Form

TRIM_123



Downspout Strap Attachment Detail
4" x 5" Roll-Form

TRIM_81



Alternate
Fastener #17A or #137 greater than 100" (PBR Panel Only)

Standard
Fastener #4 (1/4-14 x 7/8" LL SD W/Washer 5"-0 O.C.) At Every 4th High Rib (PBR Panel Only)

Rake Detail — PBR Roof
Classic Northern and Northern Large Rake Trim — Sheeted Wall

TRIM_125

ISSUE	DATE	DESCRIPTION	BY	CD	DSN
0	2/26/18	FOR ERECTOR INSTALLATION	TKX	MMH	AMK
1	3/13/18	REV FOR ERECTOR INSTALLATION	TKX	MMH	AMK



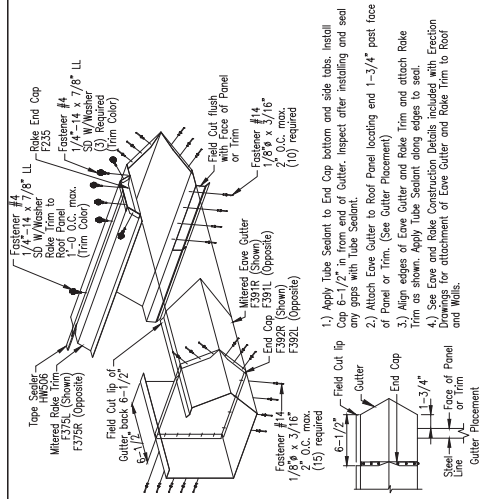
MESCO Building Solutions
5244 Bear Creek Court
Irving, TX 75061
Voice 214-687-9999 Fax 214-687-9737

PROJECT: EA WHITE-HAWLAND
CUSTOMER: MRA CONSTRUCTION
LOCATION: HAWLAND OH, 44851

OWNER: EA WHITE

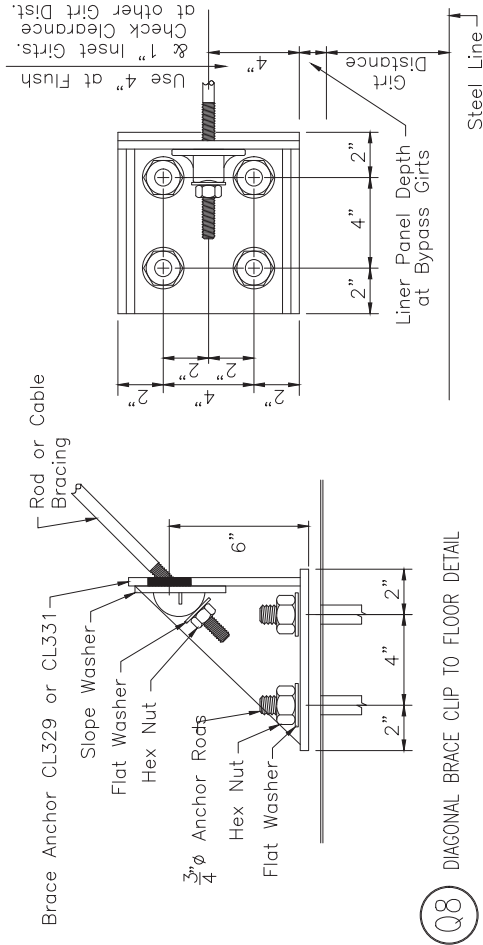
DATE: 3/13/18
SCALE: N.T.S.
PHASE: 1
BUILDING ID: A
JOB NUMBER: 16-B-37440-B
SHEET NUMBER: DE13
ISSUE: 1





Low Eave Rake Corner with Eave Gutter

Northern Rake and Northern Gutter

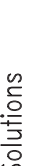


DIAGONAL BRACE CLIP TO FLOOR DETAIL



CPA # 2018020527 - April 20 2018

ISSUE	DATE	DESCRIPTION	BY	CHK'D	DSN
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1	3/13/18	REV FOR ERECTOR INSTALLATION	TKK	MMH	AMK

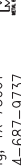


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5244 Bear Creek Court
Irving, TX 75061

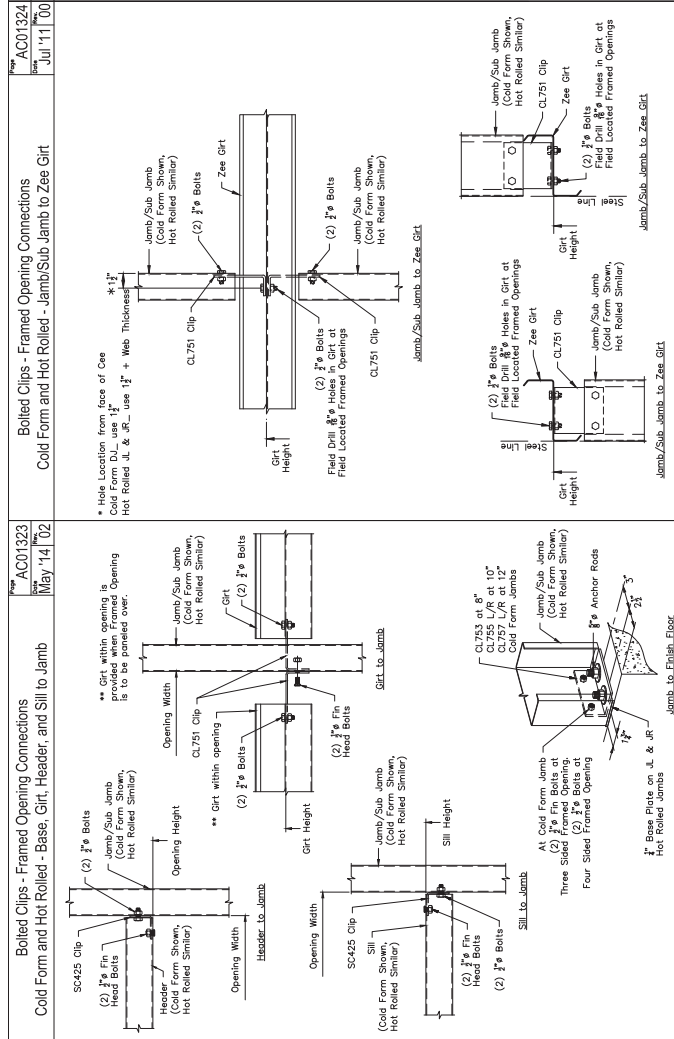
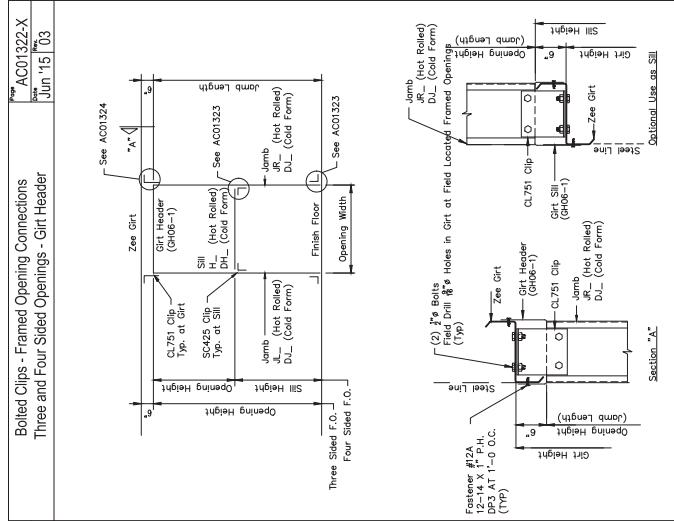
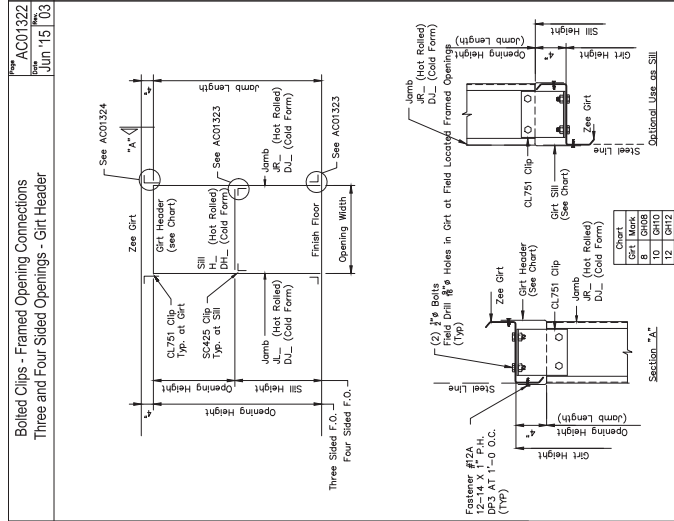
Voice 214-687-9999 Fax 214-687-9737



McMullen
BUILDING GROUP


PROJECT: IEA WHITE-HAWLAND			OWNER: IEA WHITE		
CUSTOMER: MBA CONSTRUCTION					
LOCATION: HAWLAND OH, 45561					

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	3/13/18	N.T.S.	1	A	16-B-37440-B	DTFS	1



CPA # 2018020527 - April 20, 2018

ISSUE	DATE	DESCRIPTION	BY	CD	DSN
0	2/26/18	FOR ERECTOR INSTALLATION	TJK	MMH	AMK
1	3/13/18	REV FOR ERECTOR INSTALLATION	TJK	MMH	AMK




MESCO
Building Solutions

MESCO Building Solutions

5244 Bear Creek Court
Irving, TX 75061

Voice 214-687-9999 Fax 214-687-9737



MEMBER
AMERICAN INSTITUTE OF ARCHITECTS

PROJECT: EA WHITE-HAWLAND OWNER: EA WHITE

CUSTOMER: MBA CONSTRUCTION

LOCATION: HAWLAND OH, 43851

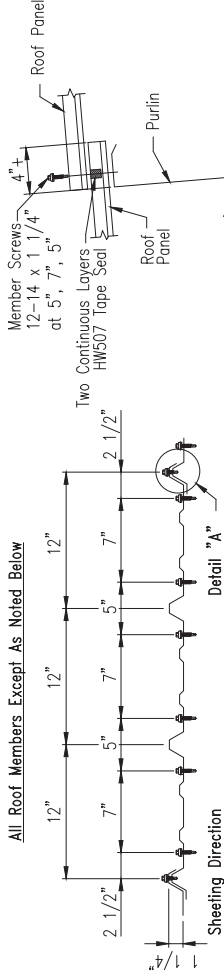
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	3/13/18	N.T.S.	1	A	16-R-37440-R	DET6	1



Standard Grade

Stitch Screw
1/4"-14 x 7/8"
At 20" O.C.

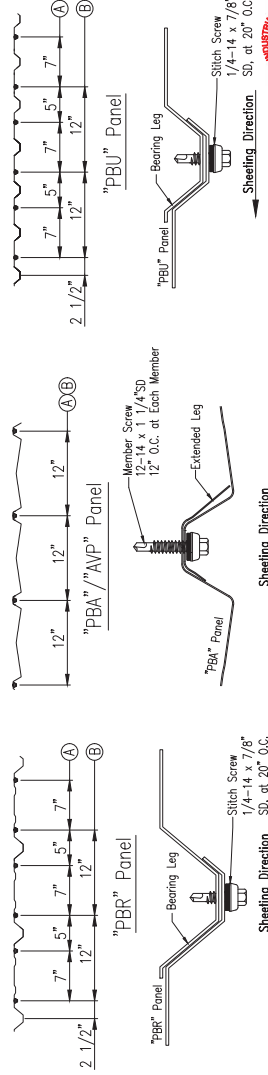
Detail "A"



Section Thru Panel End Laps

Fastener Location for "PBR" Roof Panel

TRIM_175



- Ⓐ = At Base, Eave, and Mid Span End Laps
- Ⓑ = At Intermediate Member, and at Optional Liner Panel

"PBR" Panel

"PBA" Panel

CPA # 2018020527 - April 20, 2018

Fastener Location for Panel At Wall

ISSUE	DATE	DESCRIPTION
0	2/26/18	FOR ERECTOR INSTALLATION
1	3/13/18	REV FOR ERECTOR INSTALLATION



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5244 Bear Creek Court
Irving, TX 75061
Voice 214-687-9999 Fax 214-687-9737



PROJECT: EA WHITE-HAWLAND
CUSTOMER: MRA CONSTRUCTION
LOCATION: HAWLAND OH, 45651
OWNER: EA WHITE

DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
3/13/18	N.T.S.	1	A	16-B-37440-B	DE17	1

Note:

Standard details call for 1 1/4" fasteners as member screws by default.

Member screws may be 1 1/4", 1 1/2", or 2" depending on insulation, application, or customer request.

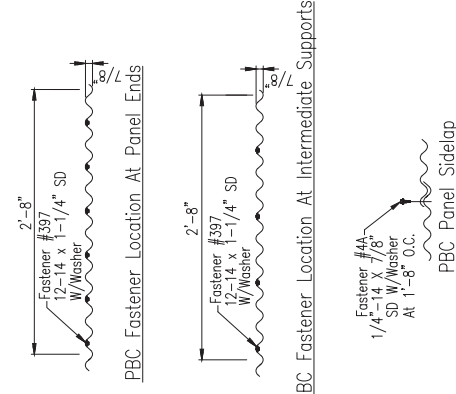
Description	Fastener Number	Application
1/4"-14 x 7/8"	4A	Stitch & Trim Screw
12-14 x 1 1/4"	17A	Member Screw
12-14 x 1 1/2"	17B	Member Screw
12-14 x 2"	2B	Member Screw

Long Life

Description	Fastener Number	Application
1/4"-14 x 7/8"	4	Stitch & Trim Screw
12-14 x 1 1/4"	3	Member Screw
12-14 x 1 1/2"	3A	Member Screw
12-14 x 2"	5B	Member Screw

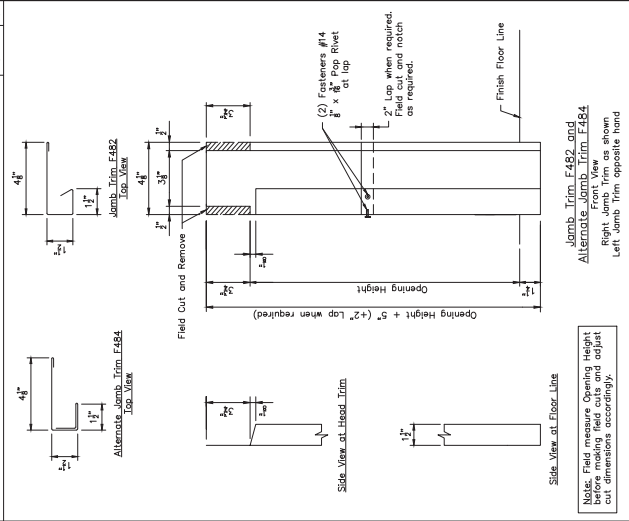
Self-Drilling Screw Application

SCRW1

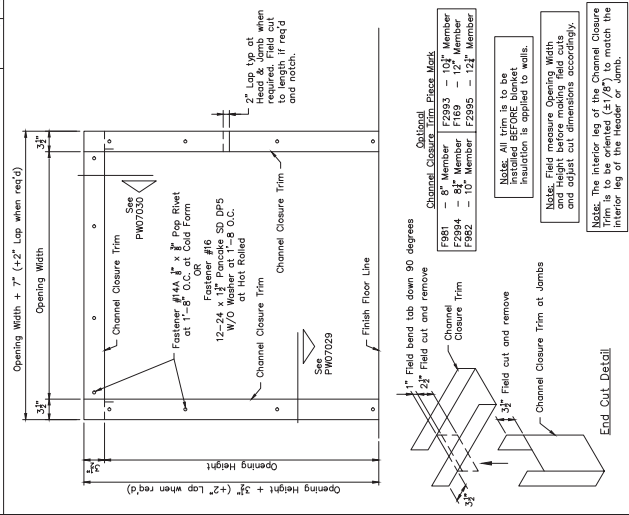


TRIM_174

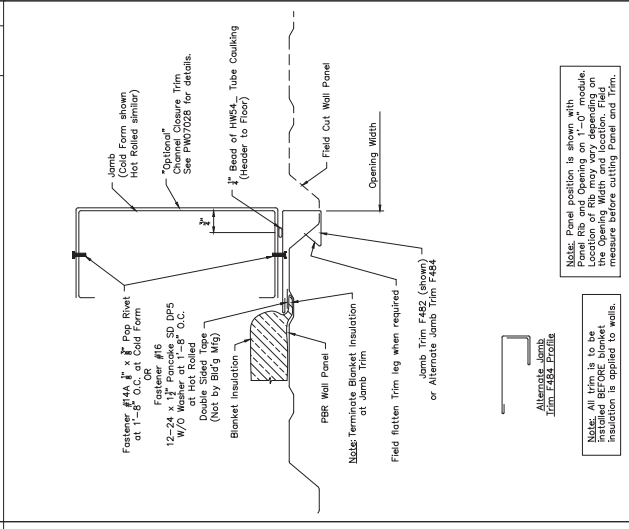
PBR Wall Panel - Three Sided Framed Opening
Jamb Trim Field Cut Details



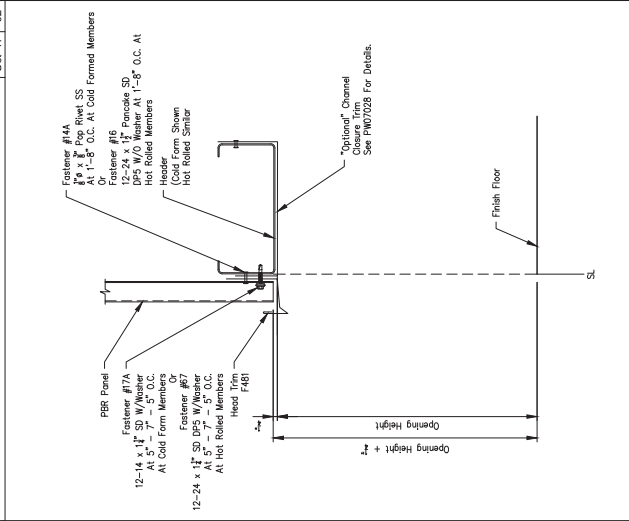
PBR Wall Panel - Three Sided Framed Opening
"Optional" Channel Closure Trim



PBR Wall Panel - Three Sided Framed Opening
Jamb Trim Installation



PBR Wall Panel - Three Sided Framed Opening
Head Trim Installation

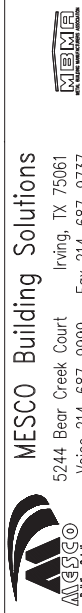


CPA # 2018020527 - April 20, 2018

STANDARD FRAMED OPENING DETAILS (PBR WALL PANEL)
CONT.

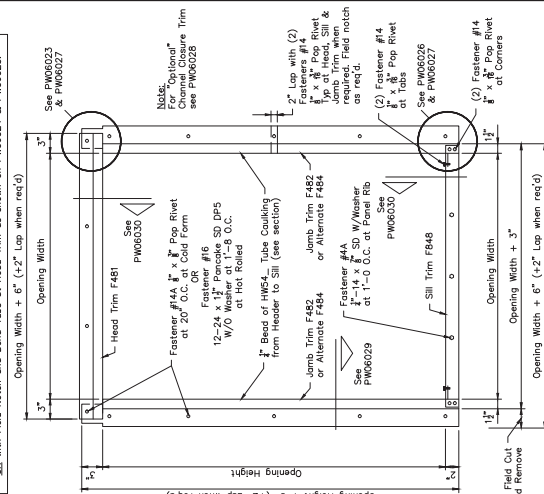
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/26/18	FOR ERECTOR INSTALLATION	TKX	MMH	AMK
1	3/13/18	REV FOR ERECTOR INSTALLATION	TKX	MMH	AMK

PROJECT: EA WHITE-HAWLAND		OWNER: EA WHITE
CUSTOMER: MRA CONSTRUCTION	LOCATION: HAWLAND OH, 45651	
CAD	DATE	SCALE
	3/13/18	N.T.S.
PHASE	BUILDING ID	JOB NUMBER
1	A	16-B-37440-B
SHEET NUMBER	DETA	ISSUE
1		



PBR Wall Panel - Four Sided Framed Opening Trim Installation With Field Notch Panel at Head Trim

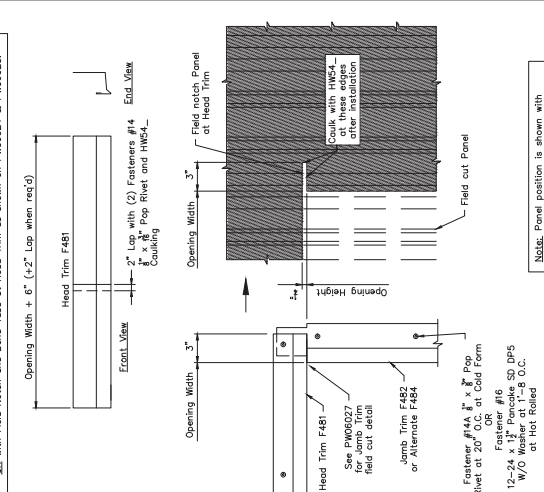
Notes: Trim installation can be done by Field Notch Panel as shown on PW06022 & PW06023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW06024 & PW06025.



Notes: All trim is to be installed BEFORE blinset insulation is applied to walls.

PBR Wall Panel - Four Sided Framed Opening Field Notch Panel at Head Trim

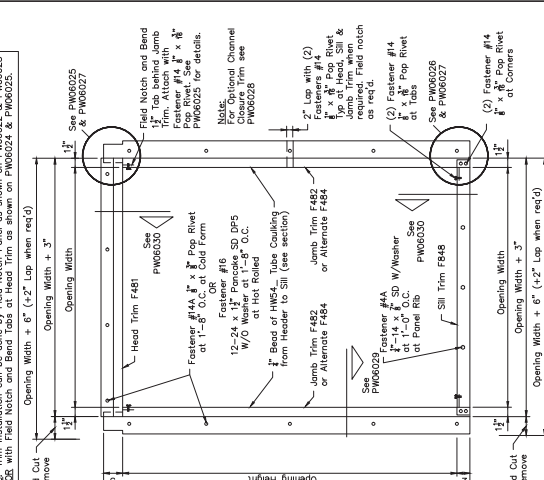
Notes: Trim installation can be done by Field Notch Panel as shown on PW06022 & PW06023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW06024 & PW06025.



Notes: All trim is to be installed BEFORE blinset insulation is applied to walls.

PBR Wall Panel - Four Sided Framed Opening Trim Installation With Field Notch and Bend Tabs at Head Trim

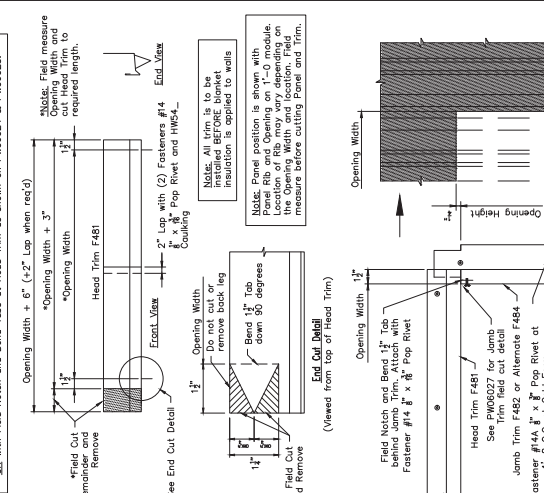
Notes: Trim installation can be done by Field Notch Panel as shown on PW06022 & PW06023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW06024 & PW06025.



Notes: All trim is to be installed BEFORE blinset insulation is applied to walls.

PBR Wall Panel - Four Sided Framed Opening Field Notch and Bend Tabs at Head Trim

Notes: Trim installation can be done by Field Notch Panel as shown on PW06022 & PW06023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW06024 & PW06025.



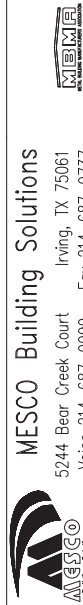
Notes: All trim is to be installed BEFORE blinset insulation is applied to walls.



CPA # 2018020527 - April 20, 2018

STANDARD 4 SIDED FRAMED OPENING DETAILS (PBR WALL PANEL)

ISSUE	DATE	DESCRIPTION	BY	CD	DSN
0	2/26/18	FOR ERECTOR INSTALLATION	TKX	MMH	AMK
1	3/13/18	REV FOR ERECTOR INSTALLATION	TKX	MMH	AMK
PROJECT: EA WHITE-HAWLAND					
CUSTOMER: MRA CONSTRUCTION					
LOCATION: HAWLAND OH, 44851					
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER
	3/13/18	N.T.S.	1	A	16-B-37440-B
SHEET NUMBER					DET10
ISSUE					1



MESCO Building Solutions
5244 Bear Creek Court
Irving, TX 75061
Voice 214-687-9999 Fax 214-687-9737





Envelope Compliance Certificate

Project Information

Energy Code: 90.1 (2010) Standard
Project Title:
Location: Paulding, Ohio
Climate Zone: 5a
Project Type: New Construction
Vertical Glazing / Wall Area: 4%

Construction Site:

Owner/Agent:

Designer/Contractor:

Building Area

Floor Area

1-Office : Nonresidential

2500

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor ^(a)
Floor 1: Slab-On-Grade:Unheated, Vertical 2 ft., [Bldg. Use 1 - Office] (c)	200	---	10.0	0.540	0.540
Roof 1: Other Metal Building Roof, [Bldg. Use 1 - Office] (b)	2500	---	---	0.037	0.055
NORTH					
Exterior Wall 4: Steel-Framed, 16" o.c., [Bldg. Use 1 - Office]	750	19.0	0.0	0.109	0.064
Door 2: Insulated Metal, Swinging, [Bldg. Use 1 - Office]	72	---	---	0.370	0.700
EAST					
Exterior Wall 1: Other Metal Building Wall, [Bldg. Use 1 - Office] (b)	700	---	---	0.060	0.069
Window 1: Vinyl/Fiberglass Frame:Fixed, Perf. Type: Energy code default, Double Pane with Low-E, Clear , SHGC 0.59, VT 0.64, [Bldg. Use 1 - Office]	48	---	---	0.600	0.350
Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Office]	24	---	---	0.370	0.700
SOUTH					
Exterior Wall 3: Other Metal Building Wall, [Bldg. Use 1 - Office] (b)	750	---	---	0.060	0.069
Window 3: Vinyl/Fiberglass Frame:Fixed, Perf. Type: Energy code default, Double Pane with Low-E, Clear , SHGC 0.59, VT 0.64, [Bldg. Use 1 - Office]	64	---	---	0.600	0.350
WEST					
Exterior Wall 2: Other Metal Building Wall, [Bldg. Use 1 - Office] (b)	700	---	---	0.060	0.069
Window 2: Vinyl/Fiberglass Frame:Fixed, Perf. Type: Energy code default, Double Pane with Low-E, Clear , SHGC 0.59, VT 0.64, [Bldg. Use 1 - Office]	16	---	---	0.600	0.350

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

(b) 'Other' components require supporting documentation for proposed U-factors.

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

Envelope PASSES: Design 6% 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 4.0.8.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Rayburn J. Donaldson
Name - Title

[Signature]
Signature

03/21/18
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
4.2.2,5.4. 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	

Additional Comments/Assumptions:

Section # & Req.ID	Footings / 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)
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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	
5.5.4.3a [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	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 roof slope is ≤ 3 in 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)
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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)
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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)
---	----------------------	---	------------------------	---	---------------------



Steven P. Obertacz

Structural Steel Inspector

www.ttlassoc.com

Education

- Mechanical Engineering, The University of Toledo, Toledo, OH

Certifications

- NACE CIP Level I Cert. No. 8573
- Certified Welding Inspector, American Welding Society, AWS QC1-92, Cert. No. 92030011
- SSI Certified Open Water Diver No. 606960242
- ODOT Coatings Inspector

Training

- ODOT, Work Type 26, Structural Steel Painting Course
- ODOT, Work Type 57, Sealing of Concrete Surfaces Course
- OSHA 10-Hour Construction Safety Course
- KTA-Tator, Quality Coatings Inspection
- Hobart School of Welding Technology, Troy, Ohio, Oxygen Flame Welding, Shielded Metal Arc Welding I and II
- American Welding Society, Columbus, Ohio, Welding Inspection Technology, Structural Steel Code, Practical Inspection
- Terra Technical College, Fremont, Ohio, Training, Levels I and II, Liquid Dye Penetrant, Magnetic Particle
- Kraut Kramer-Branson/Hobart School of Technology, Training, Levels I and II, Ultrasonic

Summary of Experience

Steven joined TTL in 1986 and has over 32 years of experience in structural steel testing, welding and coatings inspections. He has experience performing quality assurance inspections, both in and out of the laboratory, on a wide variety of projects.

Relevant Project Experience

LUCAS-75-2.75 Part 1 and Part 2, ODOT Project No. 140268, Toledo, Ohio. Independent Lead Structural Inspector (ILSI) responsible for the inspection and field documentation of all structural elements on the Project including but not limited to bridges, box culverts, walls, foundations, etc. primarily the structural steel for Oakwood Bridge over I-75.

ODOT Maintenance Facility, Sandusky County, Ohio. Lead structural steel inspector performing the steel inspection on this lightly-loaded, single-story, slab-on-grade structure. Testing also being performed includes soil bearing evaluation, soil/stone compaction, concrete testing (steel reinforcement inspection), and asphalt testing. All tests are being performed in accordance with the project plans and specifications.

Third Lane Construction, Contract No. 77-13-01, Mileposts 59.52 To 64.13, Wood & Lucas Counties, Ohio. Lead inspector performing the bridge painting inspections on seven bridges on the Ohio Turnpike.

BGSU, Wolfe Center for Performing Arts, Bowling Green, Ohio. Lead structural steel inspector for the construction materials testing services for this 122,000 square foot building constructed of a structural steel frame with concrete slab-on-grade floors and limited load-bearing masonry walls. Structural steel inspection services included visual weld inspection, ultrasonic weld examination, and bolt tension examination.

University of Toledo, Fetterman Training Center, Toledo, Ohio. Lead structural steel inspector for the construction material testing services for this 90,400 square-foot new indoor practice facility. Structural steel inspection services included visual weld inspection, ultrasonic weld examination, and bolt tension examination.

Toledo Public Schools, Toledo, Ohio. This program consists of the construction/renovation of 55 school facilities. Lead structural steel inspector for the services which included visual weld inspection, ultrasonic weld inspection, bolt torque inspection, paint thickness inspection, steel fabrication shop inspections and fireproofing inspections.



Richard M. Grant

Engineering Technician

www.ttlassoc.com

Certifications

- ACI Concrete Field Testing Technician, Level I
- Certificate of Radiological Safety Training and Equipment Operation

Summary of Experience

Rick joined TTL in 1991 and has over 27 years of experience.

Relevant Project Experience

The Andersons Corporate Headquarters, Maumee, Ohio. Lead Engineering Technician for the construction material testing services for this 100,000 + square foot corporate headquarters facility located on 55 acres of land. Services included testing and inspection for shallow foundations, reinforcing steel, concrete testing, asphalt testing, and masonry inspection.

New Keyser Elementary School, Toledo, Ohio. Engineering technician who performed the materials testing and inspection services for this new elementary school. The new building was a slab-on-grade structure with a footprint of approximately 46,000 square feet. Services included soil bearing evaluation, soil/stone compaction, concrete testing, concrete steel reinforcement inspection, asphalt testing, structural steel inspection, and special inspection of masonry.

BGSU Student Dining Commons, Bowling Green, Ohio. Lead engineering technician for testing and inspection services for this single story slab-on-grade dining hall structure. Services included soil bearing evaluations, soil compaction, concrete testing, and special inspection of masonry.

Daimler Chrysler Bid Pack FP1 – Site Preparation, Toledo, Ohio. Lead engineering technician for the testing and inspection services for the site preparation work at the Chrysler Jeep project. Services included soil/stone compaction testing, concrete testing, and asphalt testing.

Maumee CSO Storage Basin, Toledo, Ohio. Lead engineering technician for the testing and inspection services for the construction of a new combined sewer overflow (CSO) storage basin. The basin is approximately 180 feet long and 100 feet wide. All necessary services were performed including soil bearing evaluation, soil/stone compaction, and concrete/grout testing and inspection.



Department of Commerce

Division of Industrial Compliance

John R. Kasich, Governor
Jacqueline T. Williams, Director

Statement of Special Inspections

State CPA No.: _____

Project Name: _____

Project Location: _____

Pursuant to section 1704.1.1 Ohio Building Code, this statement of special inspections must be prepared by the registered design professional in responsible charge acting as the owner's agent. This statement (2-part documents) should be submitted as a condition for plan approval and should include the following:

- **Part I:** A complete list of materials and work requiring special inspections and the required frequency of inspections by sections 1704.2 through 1704.16 Ohio Building Code.
- **Part II:** A list of special inspectors who are qualified and are competent to the particular type of construction or operations. **These special inspectors shall be employed by the owner or by the registered design professional in responsible charge acting as the owner's agent. Submit proper resumes and/or certificates of the special inspectors.**

** Please mark "X" on all work items requiring special inspection and the required frequency of inspections for this project per requirements in section 1704 OBC.

PART I: SCHEDULE OF SPECIAL INSPECTIONS				
No.	ITEM	Req'd	Continuous Inspection	Periodic Inspection
1	Fabricators: (1704.2 OBC)			
	▪ Structural load-bearing members			
	▪ Structural load-bearing assemblies			
2	Steel Construction (1704.3 OBC)			
	▪ High strength bolts			
	▪ Structural steel materials			
	▪ Structural steel welding			
	▪ Structural steel frame joint details			
3	Concrete construction (1704.4 OBC)			
	▪ Reinforcing steel placement			
	▪ Reinforcing steel welding			
	▪ Reinforcing steel bolting			
	▪ On site concrete testing			
	▪ Concrete application techniques			
	▪ Concrete curing temperature and techniques			
	▪ Pre-stressed concrete			

	▪ Pre-cast concrete		2018020527	
4	Masonry Construction (1704.5 OBC)		B,& S-1	
	▪ Masonry mortar joints			
	▪ Reinforcement and connectors		VB	
	▪ Grouting		Paulding	
	▪ Pre-stressing tendons and anchorages			
	▪ Cold weather protection			
5	Wood Construction (1704.6 OBC)			
	▪ Prefabricated wood structural members			
	▪ Wood structural panels			
	▪ Fasteners and connectors			
	▪ Framing details			
6	Soils (1704.7 OBC)		6	
	▪ Site preparation		6	
	▪ Compacted fill materials		1	
	▪ Soil load bearing requirements		6	
7	Driven Deep Foundation (1704.8 OBC)			
8	Cast-In-Place Deep Foundation (1704.9 OBC)			
9	Helical Pile Foundation (1704.10 OBC)		Scope of Work:	
10	Vertical Masonry Foundation Element (1704.11)			
11	Sprayed Fire-Resistant Materials (1704.12 OBC)			
	▪ Surface conditions			
	▪ Application			
	▪ Spray thickness			
	▪ Spray density			
	▪ Spray bonding strength			
12	Mastic/Intumescent Fire-Resistant Coatings (1704.13 OBC)			
13	EFIS System (1704.14 OBC)			
14	Special Cases (1704.15 OBC)			
	▪ Materials & systems not prescribed in code			
	▪ Unusual design applications			
	▪ Additional requirements by manufacturers			
15	Smoke Control System (1704.16 OBC)			
	▪ Ductwork, Leak Testing, Fire Alarm			

- Submit the resume of special inspectors for all marked special inspection items in the part I table showing the qualification and/or special training per 1704.1 OBC.

PART II: LIST OF SPECIAL INSPECTORS			
No.	ITEM	Inspection Company	Name of Inspector
1	Fabricators: (1704.2 OBC)		
2	Steel Construction (1704.3 OBC)		
3	Concrete construction (1704.4 OBC)		
4	Masonry Construction (1704.5 OBC)		
5	Wood Construction (1704.6 OBC)		
6	Soils (1704.7 OBC)		
7	Driven Deep Foundation (1704.8 OBC)		
8	Cast-In-Place Deep Foundation (1704.9 OBC)		
9	Helical Pile Foundation (1704.10 OBC)		
10	Vertical Masonry Foundation Elements (1704.11 OBC)		
11	Sprayed Fire-Resistant Materials (1704.12 OBC)		
12	Mastic & Intumescent Fire Resistant Coatings (1704.13 OBC)		
13	EIFS system (1704.14 OBC)		

14	Special Cases (1704.15 OBC)		
15	Smoke Control System (1704.16 OBC)		

The above statement of special inspections has been prepared by the registered project design professional in responsible charge in accordance with the provision of section 1704.1.1 Ohio Building Code 2011.

The project registered design professional in responsible charge also acknowledges that he or she is responsible for reviewing and approving the special inspection reports submitted by the special inspectors at the required inspection periods. Any discrepancies in special inspection reports shall be brought to the attention of the building official. A final special inspection report documenting required special inspections and corrections of any discrepancies noted in the inspections shall be submitted to the building official.

Project Registered Design Professional in Responsible Charge:

Name of Designer:

Ohio Registration

No.:

Name of Company:

Signature:

Date:

Property Owner:

Name of Owner:

Name of Company:

Signature:

Date:

Revised 10/02/2015



Richard LaCourse

Engineering Technician

www.ttlassoc.com

Training/Certifications

- ACI Concrete Field Testing Technician, Level I
- ODOT Asphalt Technician, Level III
- Certificate of Radiological Safety Training and Equipment Operations

Specialized Training & Skills

- In-house training of masonry testing and inspection, fireproofing testing and inspection, and concrete steel reinforcement inspection as per the Ohio Building Code Schedule of Special Inspections

Summary of Experience

Rich joined TTL in 2000 and has over 16 years of experience. His knowledge of the various aspects of the testing arena includes concrete, soils, asphalt, and masonry. He has provided construction materials testing services on numerous projects including airports, turnpike interchanges, educational facilities, residential developments, and municipalities.

Relevant Project Experience

BGSU Sebo Athletic Center, Bowling Green, Ohio. Lead engineering technician for testing and inspection services for this three-story 42,500 square foot athletic center. The building was built on shallow foundations with masonry wall construction. Services included soil compaction, concrete testing, masonry inspection and rebar inspection.

Toledo Public Schools, Toledo Ohio. Engineering Technician who provided the construction materials testing including soil evaluations, soil/stone compaction testing, concrete testing, asphalt testing, masonry inspection, structural steel testing and inspection and fire proofing inspection. This "Building for Success" program consisted of the construction or renovation of 55 school facilities from 2003 through 2013.

BGSU Running Track, Football Field, and Tennis Courts, Bowling Green, Ohio. Lead engineering technician for the brand new running track with areas for shot put and pull vault, football field, and 8 tennis courts at the BGSU campus. Testing and inspection services consisted of soil/stone compaction testing, concrete testing and asphalt compaction testing.

Lucas County Metropolitan Housing Authority, Collingwood Green Phase II, Toledo, Ohio. Lead engineering technician performing the construction testing and inspection services for the modernization and redevelopment of this Public Housing property. Services include soil bearing evaluation, soil/stone compaction testing, and concrete testing.

Put-In-Bay Airport, Taxiway and Apron Rehabilitation/Construction, Put-In-Bay, Ohio. Mr. LaCourse was the engineering technician providing the construction testing and inspection services on this runway rehabilitation/construction project. He conducted the asphalt plant inspection for the purpose of monitoring the batching and testing of the asphalt as well as the core densities and asphalt compaction testing.

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

8/2/2018 9:56:50 AM

in

Case No(s). 13-0197-EL-BGN, 16-1687-EL-BGA, 17-1099-EL-BGA

Summary: Notification of Compliance with Condition 9 of the Supplement - Federal & State
Permits electronically filed by Mr. William V Vorys on behalf of Trishe Wind Ohio, LLC