



# CITY OF BURTON

## BURTON PLANNING COMMISSION MEETING

JUNE 14, 2022

### AGENDA

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**Council Chambers**

**Regular Meeting**

**5:00 PM**

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**4303 S. CENTER ROAD  
BURTON, MI 48519**

**A. PLEDGE OF ALLEGIANCE TO THE FLAG OF THE UNITED STATES OF AMERICA**

**B. ROLL CALL**

**C. STAFF PRESENT**

**D. APPROVAL OF MINUTES**

1. Planning Commission - Regular Meeting - May 10, 2022 5:00 PM

**E. PUBLIC HEARING**

1. SPR #22-16 / ZC# 329

By: Daher Holdings, LLC – C/O Adam Mourtada, Esq.  
6057 N. Evangeline St., Dearborn, MI 48127

Re: 3030 E. Atherton Rd., Burton, MI  
Parcel ID 59-28-501-003, Zoned C-2

For: Requesting to change the zoning district classification from C-2, General Business to C-3 zone, Highway Oriented Business

**F. ADMINISTRATIVE SITE PLAN REVIEW**

1. SPR #22-26

By: Robert Antaya  
2441 E. Bristol Rd., Burton, MI

Re: 2441 E. Bristol Rd., Burton, MI  
Parcel ID 59-29-400-14, Zoned M-2

For: New Business, Fluid Cooling Systems, fabrication and system integration

2. SPR #22-27

By: Fisher Power Supply  
2347 E. Bristol Rd., Burton, MI

Re: 2347 E. Bristol Rd., Burton, MI  
Parcel ID 59-29-400-010, Zoned M-2

For: To construct a 1,500 square foot accessory structure, for cold storage.

**G. AUDIENCE PARTICIPATION**

Now is the time set-aside for members of the audience to address the Burton Planning Commission. I would ask each individual to give their name and address for the record and to limit their comments to three (3) minutes and to speak on the topics germane to City business.

**H. BOARD DISCUSSION**

The next regular scheduled Planning Meeting will be held on July 12, 2022 at 5:00 PM.

Agendas and minutes may be found at [www.burtonmi.gov](http://www.burtonmi.gov)



# CITY OF BURTON

## BURTON PLANNING COMMISSION MEETING

MAY 10, 2022

### MINUTES

Council Chambers

Regular Meeting

5:00 PM

4303 S. CENTER ROAD  
BURTON, MI 48519

This meeting was opened by Chairperson Kevin Burge at 5:00 PM.

#### A. PLEDGE OF ALLEGIANCE

#### B. ROLL CALL

Attendee Name	Title	Status	Arrived
Duane Haskins	Mayor	Excused	
Kevin Burge	Chairperson	Present	
Gregory Fenner	Council Representative	Present	
Tom Gorang	Commissioner	Present	
Neil Martz	Commissioner	Present	
Don Jones	Vice Chair	Present	
Erica Edgington	Commissioner	Present	
Kenneth Gay	Commissioner	Present	

#### C. STAFF PRESENT

Amber Abbey, Deputy DPW Director  
Leandra Swayne, DPW Records Tech  
Katie Malin, Clerk's Office

#### D. APPROVAL OF MINUTES

1. Planning Commission - Regular Meeting - Apr 12, 2022 5:00 PM

<b>RESULT:</b>	<b>ACCEPTED [UNANIMOUS]</b>
<b>MOVER:</b>	Kenneth Gay, Commissioner
<b>SECONDER:</b>	Gregory Fenner, Council Representative
<b>AYES:</b>	Burge, Fenner, Gorang, Martz, Jones, Edgington, Gay
<b>EXCUSED:</b>	Haskins

#### E. PUBLIC HEARING

1. SPR #22-16 / ZC# 329

By: Daher Holdings, LLC – C/O Adam Mourtada, Esq.  
6057 N. Evangeline St., Dearborn, MI 48127

Re: 3030 E. Atherton Rd., Burton, MI  
Parcel ID 59-28-501-003, Zoned C-2

For: Requesting to change the zoning district classification from C-2, General Business to C-3 zone, Highway Oriented Business

Mrs. Abbey stated after a phone call conversation with the applicant, they are unable to attend the meeting tonight and are requesting to postpone until the next meeting.

Mr. Gorang made a motion to postpone SPR #22-16 / ZC # 329 until the next Planning Commission Meeting, Tuesday, June 14, 2022 at 6:00 PM.

<b>RESULT:</b>	<b>POSTPONED [UNANIMOUS]</b>	<b>Next: 6/14/2022 5:00 PM</b>
<b>MOVER:</b>	Tom Gorang, Commissioner	
<b>SECONDER:</b>	Neil Martz, Commissioner	
<b>AYES:</b>	Burge, Fenner, Gorang, Martz, Jones, Edgington, Gay	
<b>EXCUSED:</b>	Haskins	

**F. ADMINISTRATIVE SITE PLAN REVIEW**

1. SPR #22-17

By: Douglas Gibson  
2902 Circle Dr., Flint, MI 48507

Re: 4235 Davison Rd., Burton, MI 48509  
Parcel ID 59-03-554-010, Zoned C-2

For: New Ownership and New Business, Hair Salon, Pride & More Styling Salon

2. SPR #22-18

By: Christopher Enright  
628 E. Parent Ave., Ste 100, Royal Oak, MI 48067

Re: 2469 S. Center Rd., Burton, MI 48519  
Parcel ID 59-22-300-024, Zoned C-2

For: Construction less than 2%, expanding parking lot at Belle Tire

3. SPR #22-19

By: Matthew J. Dillion  
12835 Via Catherina, Grand Blanc, MI 48439

Re: 4440 & 4438 S. Saginaw St., Burton  
Parcel ID 59-32-554-038, zoned C-2

Minutes Acceptance: Minutes of May 10, 2022 5:00 PM (Approval of Minutes)

For: New Owner, Printing and Retail

4. SPR #22-20

By: Perpetual Investing, LLC  
28518 Newport St., Farmington Hills, MI 48331

Re: G-4278 S. Saginaw St., Burton, MI 48529  
Parcel ID 59-32-553-009, Zoned C-2

For: Change of Ownership

5. SPR #22-21

By: Adelia Jones  
3113 Pencombe Pl.

Re: 4235 Fenton Rd., Burton, MI 48529  
Parcel ID 59-31-501-075, Zoned C-2

For: Change of use, Daycare, Luv N Hugs Daycare Center

6. SPR #22-22

By: Kevin Johnston  
19017 Heather Ridge Dr., Northville, MI 48168

Re: 2395 E. Judd Rd., Burton MI  
Parcel ID 59-32-200-010, Zoned RO, M-2, M-1

For: Change of Ownership, Storage Facility

7. SPR #22-23

By: Zackary Hawley  
9470 Country Club Ln., Davison, MI 48423

Re: 3360 S. Dort Hwy., Burton, MI 48529  
Parcel ID 59-29-400-019, Zoned C-2

For: Change of Ownership, Office for College Hunks Moving

## 8. SPR #22-24

By: DoorDash Essentials, LLC  
303 2<sup>nd</sup> St., South Tower, Suite 800

Re: 2510 S. Center Rd., Burton, MI  
Parcel ID 59-21-578-043, Zoned C-2

For: Change of use, Retail

Mr. Martz asked, what will DoorDash use the building for?

Mrs. Abbey stated DoorDash offers delivery on certain grocery items like milk, bread and eggs. This will be like their own convenience store instead of needing to go somewhere like Meijer. It will not be open to the public.

**G. AUDIENCE PARTICIPATION**

None.

**H. BOARD DISCUSSION**

Mr. Burge reminded everyone about the 50th Anniversary Celebration and Memorial Day Event.

Mrs. Abbey shared an article with the Planning Commission and reminded them of their scope of duties.

The next regular scheduled Planning Meeting will be held on June 14, 2022 @ 5:00 PM.

Agendas and minutes may be found at [www.burtonmi.gov](http://www.burtonmi.gov)

Meeting was adjourned at 5:24 PM.



**Burton Planning Commission**

4303 S. Center Road  
Burton, MI 48519

Meeting: 06/14/22 05:00 PM  
Department: Department of Public Works  
Category: Public Hearing  
Prepared By: Leandra Swayne  
Department Head: Charles Abbey

E.1

**ADOPTED**

**AGENDA ITEM (ID # 5402)**

DOC ID: 5402

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**SPR #22-16 / ZC# 329**

By: Daher Holdings, LLC – C/O Adam Mourtada, Esq.  
6057 N. Evangeline St., Dearborn, MI 48127

Re: 3030 E. Atherton Rd., Burton, MI  
Parcel ID 59-28-501-003, Zoned C-2

For: Requesting to change the zoning district classification from C-2, General Business  
to C-3 zone, Highway Oriented Business

**HISTORY:**

**05/10/22 Planning Commission POSTPONED**

Mrs. Abbey stated after a phone call conversation with the applicant, they are unable to attend the meeting tonight and are requesting to postpone until the next meeting.

Mr. Gorang made a motion to postpone SPR #22-16 / ZC # 329 until the next Planning Commission Meeting, Tuesday, June 14, 2022 at 6:00 PM.

**ATTACHMENTS:**

- Backup SPR 22-16 ZC Case 329 (PDF)

CASE NO. 329

SPR#: 22-16



# City of Burton

4093 Manor Drive  
Burton, MI 48519  
(810) 742-9230

DATE FILED: 3-25-2022  
FEE PAID: 600  
RECEIVED BY: J. Swayne

## PETITION FOR ZONING CHANGE

We the Owners, Contract Purchasers, Optionees and Leaseholders of the hereinafter described property do hereby petition your Honorable Body to rezone property described as:

3030 E Atherton Rd - LOTS 5 THRU 8 & LOT 192 CHAMBERS  
SUBDIVISION (S7) 5900109005

Parcel ID#: 59-28-501-003

Located at: 3030 E Atherton Rd  
(address of property to be rezoned)

and change the zoning district classification from C-2 to C-3

for the purpose of used car sales room and such other uses permitted by the proposed zoning district.

APPLICANTS NAME: Daher Holdings LLC - c/o Adam Mourtada, Esq.

APPLICANTS ADDRESS: 6057 N Evangeline St

CITY: Dearborn Heights, MI 48127

APPLICANTS PHONE: 313-908-6018

APPLICANTS EMAIL: amourtada@hmalawgroup.com

I agree the statements made on the attached application are true, and if found not to be true, any action that may be taken may be void. Further, I agree to give permission to officials of the City of Burton to enter the property subject to this application for the purposes of inspections. Further I understand that this is an application and any fees paid will not be refundable regardless of the decision of the Council. I further acknowledge that the decision made by the Council may affect the use and/or future uses of the parcel.

APPLICANTS SIGNATURE: [Signature]

Attachment: Backup SPR 22-16 ZC Case 329 (5402 : SPR #22-16 / ZC# 329)

CASE NO. 329

SPR#: 22-16

**INTERESTED PARTIES ACKNOWLEDGMENT:**

**ALL OWNERS, CONTRACT PURCHASERS, OPTIONEES AND LESSEES OF THE LAND PROPOSED FOR REZONING SIGN HERE:**

I agree the statements made on the attached application are true, and if found not to be true, any action that may be taken may be void. Further, I agree to give permission to officials of the City of Burton to enter the property subject to this application for the purposes of inspections. Further I understand that this is an application and any fees paid will not be refundable regardless of the decision of the Council. I further acknowledge that the decision made by the Council may affect the use and/or future uses of the parcel.

Name: Hassan Daher Signature: H. Daher

6057 N. Evangeline St, Dearborn Heights, MI 313-695-7258

Address Phone

DAHERGK14@sbcgbbal.net

Email

I agree the statements made on the attached application are true, and if found not to be true, any action that may be taken may be void. Further, I agree to give permission to officials of the City of Burton to enter the property subject to this application for the purposes of inspections. Further I understand that this is an application and any fees paid will not be refundable regardless of the decision of the Council. I further acknowledge that the decision made by the Council may affect the use and/or future uses of the parcel.

Name: \_\_\_\_\_ Signature: \_\_\_\_\_

\_\_\_\_\_ Phone \_\_\_\_\_

Address

\_\_\_\_\_

Email

I agree the statements made on the attached application are true, and if found not to be true, any action that may be taken may be void. Further, I agree to give permission to officials of the City of Burton to enter the property subject to this application for the purposes of inspections. Further I understand that this is an application and any fees paid will not be refundable regardless of the decision of the Council. I further acknowledge that the decision made by the Council may affect the use and/or future uses of the parcel.

Name: \_\_\_\_\_ Signature: \_\_\_\_\_

\_\_\_\_\_ Phone \_\_\_\_\_

Address

\_\_\_\_\_

Email

Attachment: Backup SPR 22-16 ZC Case 329 (5402 : SPR #22-16 / ZC# 329)

CASE NO. 329

SPR#: 22-16

**TENTATIVE SCHEDULE**

The Planning Commission typically meets on the 2<sup>nd</sup> Tuesday of each month. All applications and associated drawings must be on file at least six (6) weeks prior to the meeting. Notification of property within 300' must be postmarked at least 15 days prior to the meeting. Including publication in local newspaper.

The Planning Commission action is a recommendation to the City Council.

1<sup>st</sup> Public Hearing  
Planning Commission Meeting: MAY 10, 2022 Time: 5PM Action: \_\_\_\_\_

City Council typically meets the 1<sup>st</sup> and 3<sup>rd</sup> Monday of each month. The City Council will have to act twice as this application is a Zoning Ordinance Amendment. Depending on the date the application is received final zoning change decisions may take up to two months.

2<sup>nd</sup> Public Hearing / 1<sup>st</sup> Reading  
Date of City Council Meeting: \_\_\_\_\_ Time: \_\_\_\_\_ Action: \_\_\_\_\_

2<sup>nd</sup> Reading  
Date of City Council Meeting: \_\_\_\_\_ Time: \_\_\_\_\_ Action: \_\_\_\_\_

Attachment: Backup SPR 22-16 ZC Case 329 (5402 : SPR #22-16 / ZC# 329)

Case No. 329

TO THE RESIDENTS OF THE CITY OF BURTON

PLEASE BE NOTIFIED there will be a public hearing of the Burton City Planning commission on Tuesday May 10, 2022 at 5:00 p.m. at the Burton City Hall, 4303 S. Center Road Burton, Michigan.

The following change of zoning will be considered:

Case No. 329

Daher Holdings LLC 6057 N. Evangeline St., Dearborn Heights, MI 48127 requests a zoning change from C-2, General Business to C-3, Highway Oriented Business on the following described parcel: being located at 3030 E. Atherton Rd. Burton, MI 48529 as follows:

59-28-501-003 described as:

LOTS 5 THRU 8 & LOT 192 CHAMBERS SUBDIVISION (87) FR 5900109005

File may be examined at the Department of Public Works, 4093 Manor Drive, Burton, Michigan during regular business hours.

If you are interested you may attend the meeting and be heard.

/s/ Racheal Boggs

Prepared by:

Amber Abbey,  
Deputy DPW Director

Attachment: Backup SPR 22-16 ZC Case 329 (5402 : SPR #22-16 / ZC# 329)

Case No. 329

CITY OF BURTON  
GENESEE COUNTY, MICHIGAN  
ORDINANCE NO. 157. \_\_\_\_\_

AMENDMENTS TO CITY OF BURTON ORDINANCE CHAPTER 157, AS AMENDED

THE CITY OF BURTON ORDAINS:

That Ordinance Chapter 157, being City of Burton Zoning Ordinance, be amended as follows:

Section 1

City of Burton Ordinance Chapter 157, designated “City of Burton Zoning Ordinance” and the zoning district map attached thereto and made a part thereof, are hereby amended by rezoning the following described property in the City of Burton from present zoning classification to C-3, Highway Oriented Business on the following described parcel: being located at 3030 E. Atherton Rd. Burton, MI 48529 as follows:

59-28-501-003 described as:

LOTS 5 THRU 8 & LOT 192 CHAMBERS SUBDIVISION (87) FR 5900109005

Section 2

The penalty for violation of this Ordinance shall be the same as those penalties set forth in Chapter 157.999 of the City of Burton Zoning Ordinance Chapter 157.

Section 3

Notice of this Ordinance shall be published in a newspaper circulated within the City of Burton, Genesee County, Michigan.

This Ordinance shall become effective upon publication.

A copy of this Ordinance may be inspected at the Burton City Hall, 4303 S. Center Road, Burton, Michigan, during regular business hours.

CITY OF BURTON

By: \_\_\_\_\_  
Duane Haskins, Mayor

By: \_\_\_\_\_  
Racheal Boggs, City Clerk

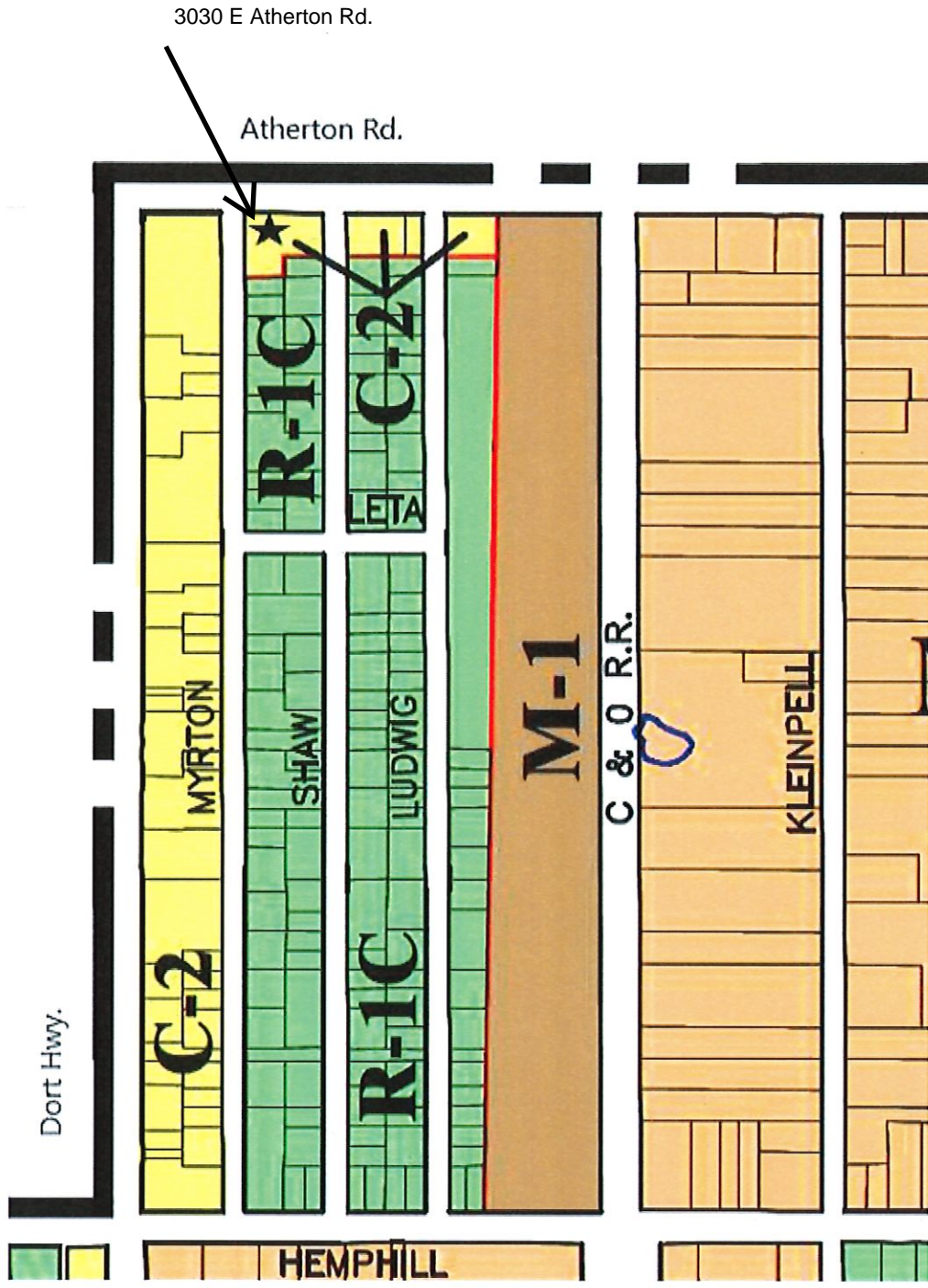
Ordinance introduced on:

Second Reading:

Publication date:

Effective date:

Attachment: Backup SPR 22-16 ZC Case 329 (5402 : SPR #22-16 / ZC# 329)



# BURTON

SPR 22-11 /  
ZC 329

E.1.a



Attachment: Backup SPR 22-16 ZC Case 329 (5402 : SPR #22-16 / ZC# 329)



**Burton Planning Commission**

4303 S. Center Road  
Burton, MI 48519

Meeting: 06/14/22 05:00 PM  
Department: Department of Public Works  
Category: Administrative Site Plan Review  
Prepared By: Leandra Swayne  
Department Head: Charles Abbey

**F.1**

**ADOPTED**

**AGENDA ITEM (ID # 5422)**

*DOC ID: 5422*

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**SPR #22-26**

By: Robert Antaya  
2441 E. Bristol Rd., Burton, MI

Re: 2441 E. Bristol Rd., Burton, MI  
Parcel ID 59-29-400-14, Zoned M-2

For: New Business, Fluid Cooling Systems, fabrication and system integration

**ATTACHMENTS:**

- Backup SPR 22-26 (PDF)



City of Burton  
Department of Public Works  
4093 Manor Drive  
Genesee County, Burton, Michigan 48519  
(810) 742-9230



**APPLICATION FOR ZONING REVIEW**

DATE FILED: 5-24-2022

FEE: 75 Perd

SPR #: 22-26

**PLEASE PRINT**

DATE: 5-23-22

APPLICANTS NAME: Robert Antaya

APPLICANTS ADDRESS: 2441 E. Bristol Rd Burton, MI 48529

APPLICANTS PHONE NO: 248-770-3766

APPLICANTS EMAIL: bob@fluidcoolingsystems.com

PROPOSED NAME OF BUSINESS: Fluid Cooling Systems

SITE ADDRESS: 2441 E Bristol Rd

USE OF STRUCTURE: Fabrication and System Integration

SQ FOOTAGE OF PROPERTY: 2 Acres

SQ FOOTAGE OF STRUCTURE: 50,000 Sq Ft

NUMBER OF EMPLOYEES/SEATS: 20

I hereby certify that the proposed application is authorized by the owner of record and that I have been authorized by the owner to make this application as his agent. I agree the statements made on the attached application are true, and if found not to be true, any permit that may be issued may be void. Further, I agree to give permission to officials of the City of Burton to enter the property subject to this permit application for the purposes of inspections.

APPLICANTS SIGNATURE: [Signature]

\*\*\* ALSO ATTACH A FLOOR PLAN OF THE EXISTING AND PROPOSED BUSINESS.

Attachment: Backup SPR 22-26 (5422 : SPR #22-26)



**Burton Planning Commission**

4303 S. Center Road  
Burton, MI 48519

Meeting: 06/14/22 05:00 PM  
Department: Department of Public Works  
Category: Site Plan Review  
Prepared By: Leandra Swayne  
Department Head: Charles Abbey

**F.2**

**ADOPTED**

**AGENDA ITEM (ID # 5421)**

*DOC ID: 5421*

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**SPR #22-27**

By: Fisher Power Supply  
2347 E. Bristol Rd., Burton, MI

Re: 2347 E. Bristol Rd., Burton, MI  
Parcel ID 59-29-400-010, Zoned M-2

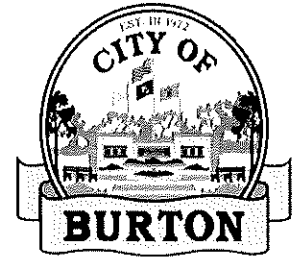
For: To construct a 1,500 square foot accessory structure, for cold storage.

**ATTACHMENTS:**

- Backup SPR 22-27 - Full SPR (PDF)



City of Burton  
Department of Public Works  
4093 Manor Drive  
Genesee County, Burton, Michigan 48519  
(810) 742-9230



**APPLICATION FOR SITE PLAN REVIEW**

DATE FILED: 5-25-22 2  
FEE: 200

SPR #: 22-27

DATE OF PLANNING COMMISSION MEETING: June 14th, 2022 TIME: 5:00pm

**PLEASE PRINT**

APPLICANTS NAME: Fisher Power Supply

APPLICANTS ADDRESS: 2347 E. Bristol Rd

Burton, MI 48529

APPLICANTS PHONE NO: (810) 444-2641

APPLICANTS EMAIL: Fisher power supply llc@yahoo.com

PROPOSED NAME OF BUSINESS: \_\_\_\_\_

SITE ADDRESS: 2347 E. Bristol Rd Burton, MI 48529

SUBDIVISION & LOT # OR PARCEL NUMBER: 59-29-400-010

RE: \_\_\_\_\_

I hereby certify that the proposed application is authorized by the owner of record and that I have been authorized by the owner to make this application as his agent. I agree the statements made on the attached application are true, and if found not to be true, any permit that may be issued may be void. Further, I agree to give permission to officials of the City of Burton to enter the property subject to this permit application for the purposes of inspections. Further I understand that this is an application and any fees paid will not be refundable regardless of the decision of the Commission. It is to your advantage to attend the above scheduled meeting. The Planning Commission may have questions that directly affect approval, denial, or postponing until these questions can be answered.

APPLICANTS SIGNATURE: [Signature]

NOTE: All site plans must be filed at least two (2) weeks prior to the Planning Commission hearing and **MUST** comply with the procedures set forth in Section 157.092 of Codified Ordinance as attached. Must include **twelve (12) sets** of prints and **one (1) electronic** in order to process the application.

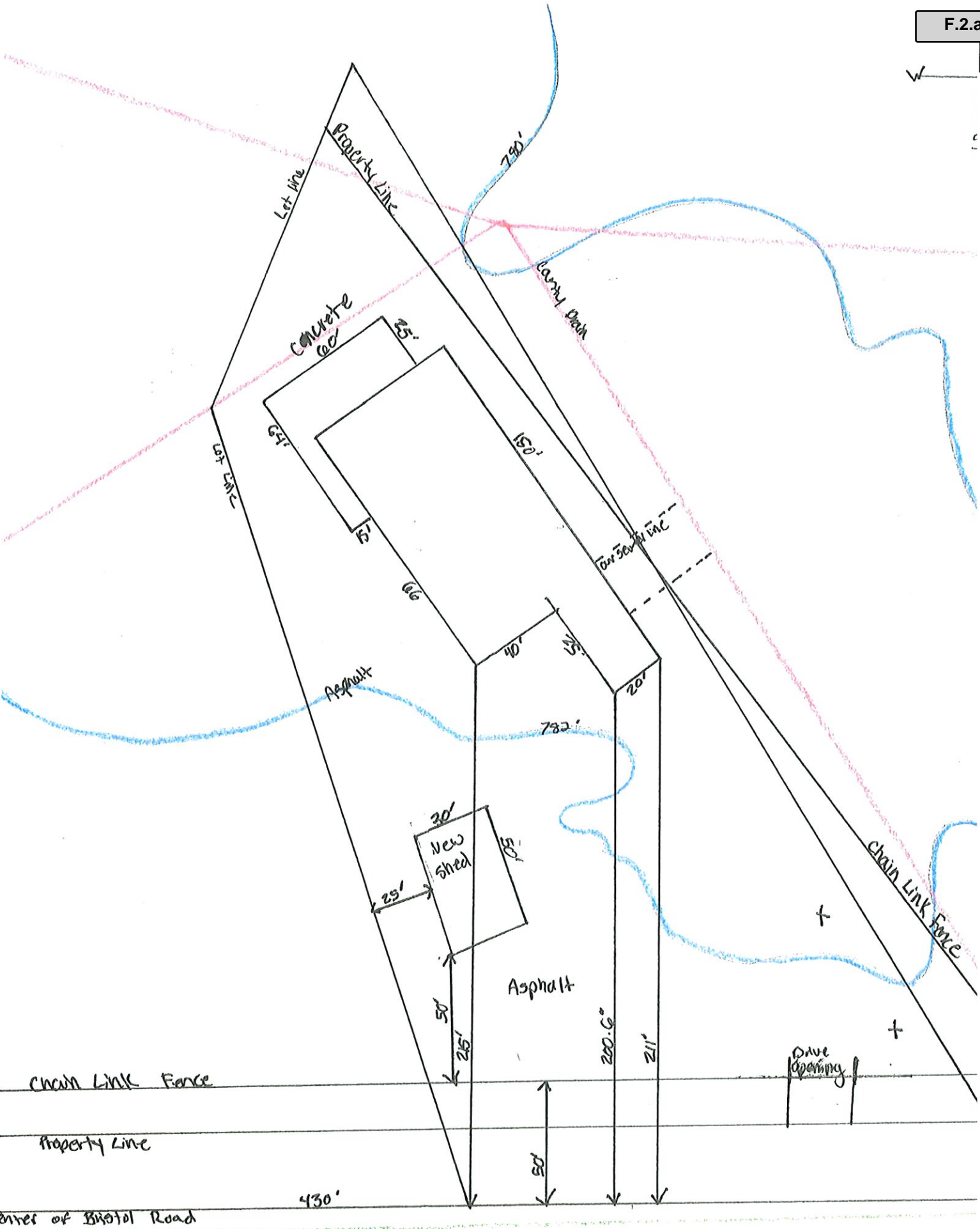
Attachment: Backup SPR 22-27 - Full SPR (5421 : SPR #22-27)

Planning Commission,

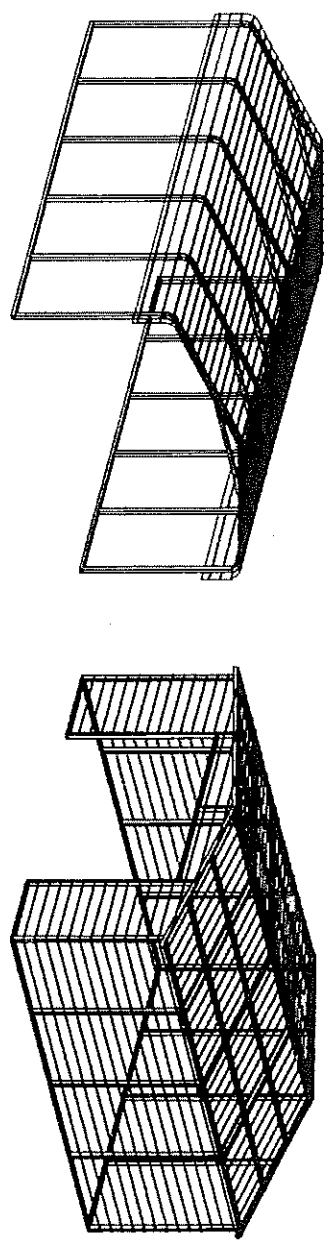
Our business is planning to have a carport company install an enclosed carport/shed on our parcel 59-29-400-010 located at 2347 East Bristol Road, Burton, MI 48529. This new building will be 30' wide by 50' long and 1,500 sqft. No electricity or plumbing will be required as this will be for storage only. The shed will be made of 14-gauge steel and a prefabricated frame consisting of one overhead roll up door and one side door for entrance. This building will not have a foundation, instead it will be placed on our existing asphalt. This shed is just an enclosed carport and will be placed on top of our current ground. There will be no removal of material or need for material added to the foundation. The building is be anchored into the ground in the four corners. These anchors will be 2 feet deep into the ground. There are currently no wires, cable lines or drains in the area below that would pose any interference with anchoring.

We have exceeded our current space inside and are looking to add this building to allow for more space. This accessory building will not block our current building from view, nor would it block our commercial neighbor's public view. This building would provide covered storage for our cast iron pieces and aid in preventing rust. Since this building would be located inside our fenced in parameters it would not interfere with any public walkways, streets or block any other buildings. We intend to paint our current building the same colors as this new building. Last year we acquired some quotes but the leads times for completion fell into this year, 2022. The colors would be Gray with black trim to match the new building so everything conforms. Making this investment would be a great addition to our company and the City of Burton. The costs for this building are paid in full by Fisher Power Supply, no bank loan required.





Attachment: Backup SPR 22-27 - Full SPR (5421 : SPR #22-27)



# REGULAR / A-FRAME 30'-0" WIDE

## CARPORT STYLE BUILDINGS

### DESIGN NOTES

1. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2015, OSMA, AISC 360, AISI 100, ASCE 7-10, AWS D 1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
2. BASE CONNECTIONS SHALL BE PROVIDED AS SHOWN ON FOUNDATION DETAILS SHEET.
3. ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
4. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS.
5. ALL FIELD CONNECTIONS SHALL BE #12X" SD5 (ESR-2196 OR EQ).
6. STEEL SHEATHING SHALL BE 29GA. CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=80KSI) OR EQ.
7. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL.
8. STRUCTURAL TUBE T92 1/2"x2 1/2" - 14GA. IS EQUIVALENT TO T92 1/4"x2 1/4" - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.
9. ALL DESIGN CRITERIA MUST BE INCREASED TO THE NEXT HIGHER INCREMENT BASED ON THE TABLES ON PAGE 4. NO INTERPOLATION IS ALLOWED.

### DESIGN CRITERIA

PREVAILING CODE: **MBC 2015 (IBC 2015)**  
 USE GROUP: **U (CARPORTS, BARN)**  
 RISK CATEGORY: **I**

### DRAWING INDEX

COVER SHEET  
 SCHEDULES & MEMBER SECTIONS  
 FRAME SECTIONS & DETAILS  
 SPACING SCHEDULES - PURLIN & GIRT SCHEDULES  
 SHEATHING OPTIONS  
 SIDE WALL FRAMING & OPENINGS  
 END WALL FRAMING & OPENINGS  
 CORNER BRACING DETAILS  
 OPTIONAL LEAN-TO ADDITION  
 FOUNDATION OPTIONS

1. DEAD LOAD (D)	D = 4 PSF	2. ROOF LIVE/SNOW LOAD (Lr)	Lr = 20 - 61 PSF (AS PER SNOW LOAD SEE TABLE 4)
3. SNOW LOAD (S)	S = 20 - 90 PSF	4. IMPORTANCE FACTOR	I = 0.8
5. THERMAL FACTOR	Ct = 12	6. EXPOSURE FACTOR	Ce = 10
7. ROOF SLOPE FACTOR	Cs = 1.0	8. WIND LOAD (W)	W = 105 - 180 MPH
9. BASIC WIND SPEED	Vbr = 105 - 180 MPH	10. EXPOSURE	C = 100
11. SEISMIC LOAD (E)	D	12. DESIGN CATEGORY	D
13. IMPORTANCE FACTOR	Ie = 100	14. LOAD COMBINATIONS:	1. D + (Lr OR S) 2. D + (0.6W OR ±0.7E) 3. D + 0.75 (0.6W OR ±0.7E) + 0.75 (Lr OR S) 4. 0.6D + (0.6W OR ±0.7E)

<b>CUSTOMER INFORMATION</b> OWNER: <b>Fisher Power Supply LLC</b> ADDRESS: <b>2347 E Bristol Burton MI 48529</b>		<b>DESIGN LOADS</b> GROUND SNOW: <b>30</b> ROOF LIVE LOAD: <b>20</b> BASIC WIND SPEED: <b>115</b>		<b>BUILDING INFORMATION</b> WIDTH: <b>30</b> LENGTH: <b>50</b> HEIGHT: <b>12</b>		<b>CERTIFICATION VALIDITY</b> DATE OF PLANS EXPIRATION: <b>10-20-2022</b> CERTIFICATION ON THESE DRAWINGS IS VALID FOR ONE YEAR FROM DATE OF ISSUE	
<b>FRAME TYPE:</b> <input checked="" type="checkbox"/> A-FRAME <input type="checkbox"/> REGULAR <input checked="" type="checkbox"/> FULL <input type="checkbox"/> PARTIAL <input type="checkbox"/> OPEN		<b>ENCLOSURE TYPE:</b> <input type="checkbox"/> FULL <input checked="" type="checkbox"/> PARTIAL <input type="checkbox"/> OPEN		<b>LEGAL INFORMATION</b> ANY DUPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY PROHIBITED. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL DURETY OF THE LAW. DRAWINGS ARE VALID UP TO DATE OF EXPIRATION.		<b>STAMP EXPIRY: 03-24-2024</b> DATE SIGNED: <b>10-20-2021</b>	

**MIDWEST STEEL CARPORT**

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 Tel: 419-292-1988 • Fax: 419-292-0795  
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**DRAWING INFORMATION**  
 PROJECT: **30'-0" WIDE BUILDINGS**  
 LOCATION: **STATE OF MICHIGAN**  
 PROJECT NO.: **227-20-1435**  
 SHEET TITLE: **COVER SHEET**

SHEET NO.: **1 / 11**  
 DRAWN BY: **A.W.** DATE: **10/19/21**  
 CHECKED BY: **OAA** DATE: **10/19/21**

**LEGAL INFORMATION**

OMAR A. ABU-YASEIN  
 ENGINEER  
 NO. 6201040679

STATE OF MICHIGAN  
 PROFESSIONAL ENGINEER

TABLE 2.1: MEMBER PROPERTIES

NO.	LABEL	PROPERTY	DETAIL NO.
1	COLUMN POST	2.5" X 2.5" X 14GA TUBE W/ 2.25" X 2.25" X 12GA TUBE INSERT	1
2	ROOF BEAM	2.5" X 2.5" X 14GA TUBE	1
3	BASE RAIL	2.5" X 2.5" X 14GA TUBE	1
4	PEAK BRACE	2.5" X 2.5" X 14GA TUBE	1
5	KNEE BRACES	2.5" X 1.5" 14GA CHANNEL	4
6	CONNECTOR SLEEVE	2.25" X 2.25" X 12GA TUBE	2
7	BASE ANGLE	2" X 2" X 3" LG. 3/16" ANGLE	10
8	PURLIN	4.25" X 1.5" X 18GA / 14GA HAT CHANNEL	5
9	GIRT	4.25" X 1.5" X 18GA / 14GA HAT CHANNEL	5
10	SHEATHING	29 GA CORRUGATED SHEET	8
11	END WALL POST	2.5" X 2.5" X 14GA TUBE	1
12	DOOR POST	2.5" X 2.5" X 14GA TUBE	1
13	SINGLE HEADER	2.5" X 2.5" X 14GA TUBE	1
14	DOUBLE HEADER	DR. 2.5" X 2.5" X 14GA TUBE	1
15	SERVICE DOOR / WINDOW FRAMING	2.5" X 2.5" X 14GA TUBE	1
16	ANGLE BRACKET	2" X 2" X 2" LG. 14GA ANGLE	7
17	STRAIGHT BRACKET	2" X 2" X 4" LG. 14GA PLATE	6
18	PB SUPPORT	2.5" X 2.5" X 14GA TUBE	1
19	DIAGONAL BRACE	2" X 2" X 14 GA TUBE	3
20	GABLE BRACE	2" X 2" X 14 GA TUBE	3
21	DB BRACKET	2.25" X 2.25" X 6" X 14GA ANGLE	9
22	TRUSS SPACER	2.5" X 2.5" X 14GA TUBE	1
23	A.L. FASTENERS	#12 X 1" SELF-DRILL SCREWS (ESR-2196 OR EQ) W/ NEOPRENE/STEEL WASHER	1

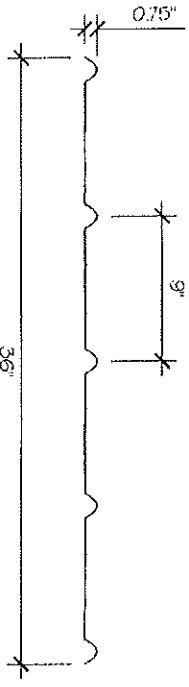
TABLE 2.2: SHEATHING FASTENER SCHEDULE

LOCATION	CORNER PANELS	SIDE LAPS	EDGE LAPS	ELSEWHERE
SPACING	9" C/C	MIN. 1	4" C/C	9" C/C

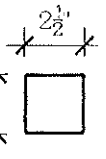
FASTENER TYPE: #12X1" SELF-DRILL SCREWS (ESR-2196 OR EQ) W/ NEOPRENE/STEEL WASHER  
 \*SEE TYP. SHEATHING FASTENER SCHEDULE DIAGRAM ON PAGE 6.

TABLE 2.3: GAUGE THICKNESS

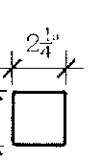
GAUGE	THICKNESS (IN)	C0135	C0449	C1023	C1029
29	16	14	12		



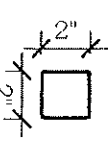
29 GA CORRUGATED SHEATHING  
 SCALE: NTS



2.5" X 2.5" 14GA TUBE  
 THICKNESS = 14GA  
 SCALE: NTS



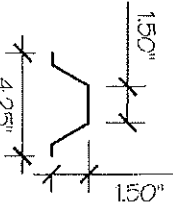
2.25" X 2.25" 12GA TUBE  
 THICKNESS = 12GA  
 SCALE: NTS



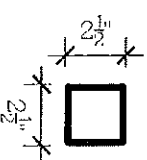
2" X 2" 14GA TUBE  
 THICKNESS = 14GA  
 SCALE: NTS



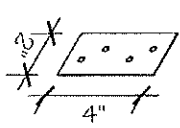
2.5" X 1.5" 14GA CHANNEL  
 THICKNESS = 14GA  
 SCALE: NTS



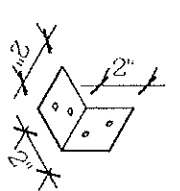
4.25" X 1.5" X 18GA / 14GA HAT CHANNEL  
 THICKNESS = 14GA / 18GA  
 SCALE: NTS



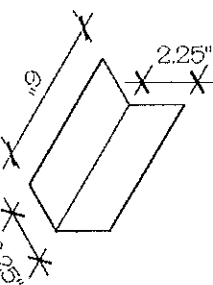
2.5" X 2.5" X 14GA TUBE W/ 2.25" X 2.25" X 12GA TUBE INSERT  
 THICKNESS = 14GA  
 SCALE: NTS



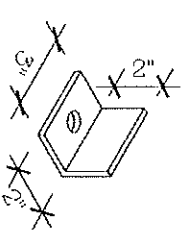
STRAIGHT BRACKET  
 THICKNESS = 14GA  
 SCALE: NTS



ANGLE BRACKET  
 THICKNESS = 14GA  
 SCALE: NTS



DB BRACKET  
 THICKNESS = 14GA  
 SCALE: NTS



BASE ANGLE  
 THICKNESS = 3/16"  
 SCALE: NTS



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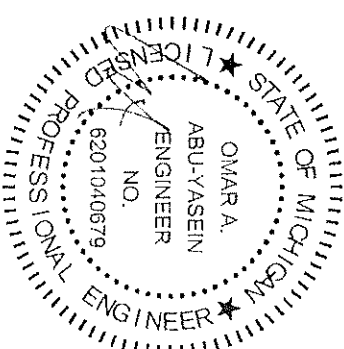
DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS  
 LOCATION: STATE OF MICHIGAN  
 PROJECT NO.: 227-20-1433  
 SHEET TITLE: SCHEDULES & MEMBER SECTIONS

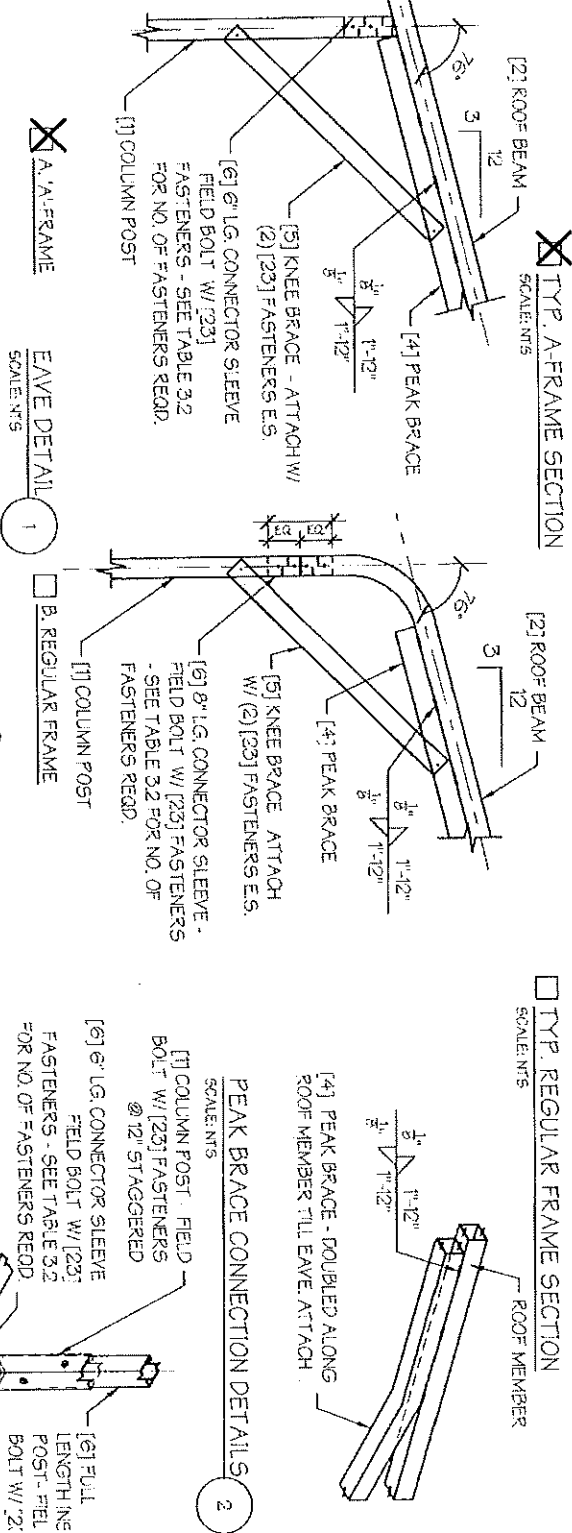
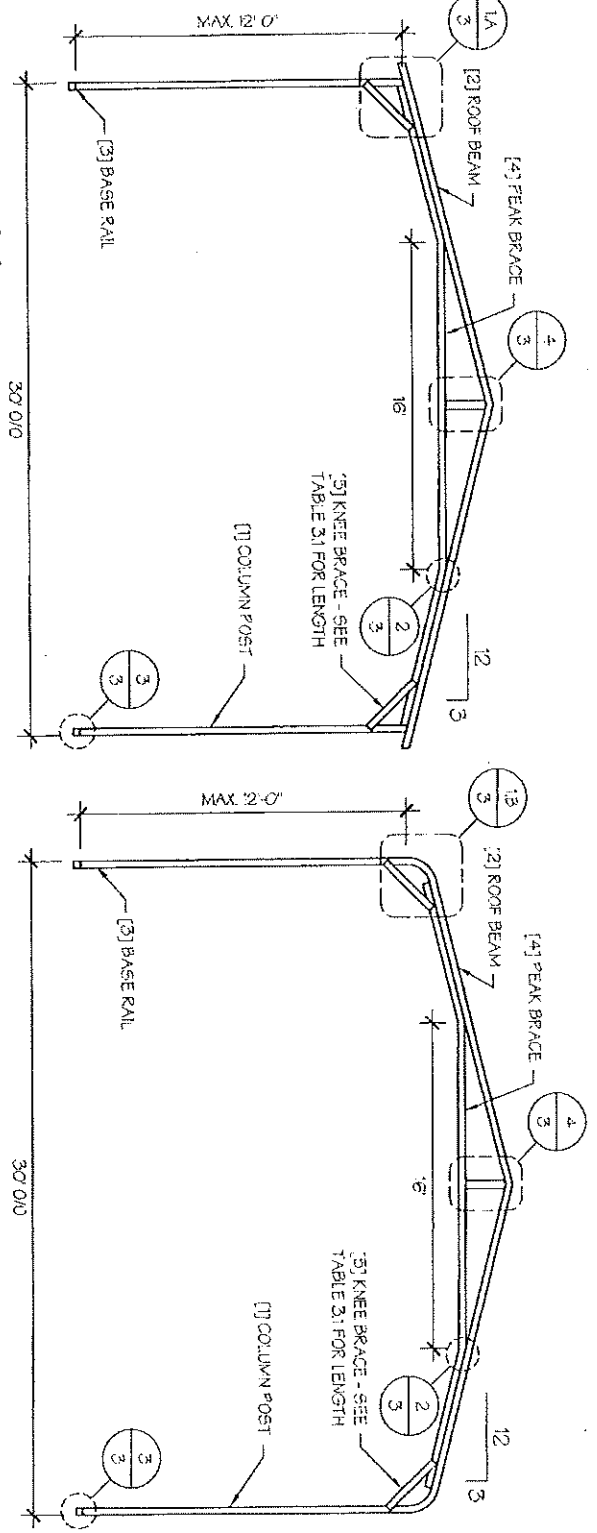
SHEET NO.: 2 / 11  
 DRAWN BY: AW DATE: 10/19/21  
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LEGAL INFORMATION

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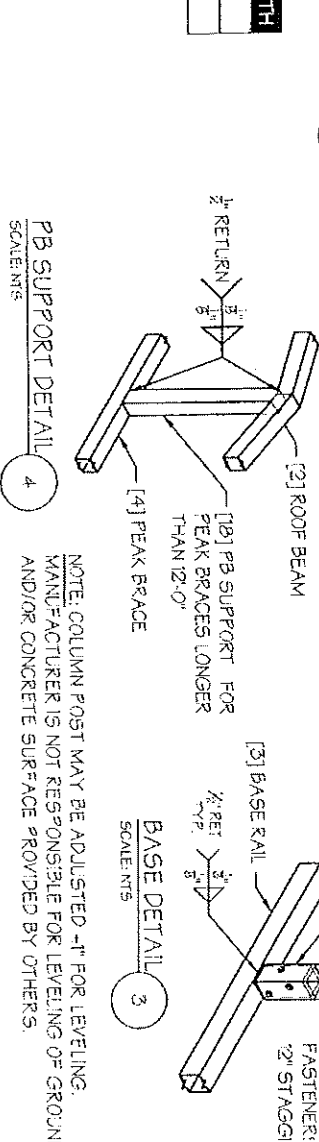


**TABLE 3.1: KNEE BRACE SCHEDULE**

EAVE HEIGHT	KNEE BRACE LENGTH
<input type="checkbox"/> UP TO 8'	24"
<input checked="" type="checkbox"/> 9 TO 12'	36"

**TABLE 3.2 FASTENER SCHEDULE**

WIND SPEED (MPH)	NO. OF FASTENERS
<input checked="" type="checkbox"/> 05 TO 125	4
<input type="checkbox"/> 130 TO 165	6
<input type="checkbox"/> 160 TO 180	8



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**DRAWING INFORMATION**

PROJECT: 30'-0" WIDE BUILDINGS  
LOCATION: STATE OF MICHIGAN  
PROJECT NO.: 227-20-1433  
SHEET TITLE: FRAME SECTIONS & DETAILS  
SHEET NO.: 3 / 11

DRAWN BY: AW DATE: 10/19/21  
CHECKED BY: OAA DATE: 10/19/21

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SEAL:

OMAR A. ABU-YASEIN  
ENGINEER  
NO. 6201040679

STATE OF MICHIGAN PROFESSIONAL ENGINEER

STAMP EXPIRY: 03-24-2024  
DATE SIGNED: 10-20-2021

TABLE 4: FRAME SPACING CHART / SCHEDULE

GROUND SNOW / ROOF LIVE LOAD (PSF)	ENCLOSED BUILDINGS										OPEN BUILDINGS									
	WIND SPEED (MPH)										WIND SPEED (MPH)									
	105	115	130	140	155	165	180	105	115	120	140	155	165	180						
30/30	60	60	54/60	54	48	42/48	36/42	54	49/54	42/48	42	36/42	36	30						
40/127	48/60	48/60	42/60	42/54	48	42/48	36/42	48	48	42/48	42	36/42	36	30						
50/134	40/48	40/48	40/48	40/48	40/48	40/48	36/42	40/42	40/42	40/42	30	30	36	30						
60/141	36/42	36/42	36	36	36	36	36	36	36	30	30	24	24	24						
70/147	32/36	32/36	32/36	32/36	30	30	30	30	30	30	24	24	24	24						
80/154	24	24	24	24	24	24	24	24	24	24	24	24	24	24						
90/161	18	18	18	18	18	18	18	18	18	18	18	18	18	18						
30/120	60	60	54/60	54	48	42/48	36/42	54	48/54	42/54	42/54	36/42	36/48	30/36						
40/127	48/60	48/60	42/60	42/54	48	42/48	36/42	48	48	42/48	42/48	36/42	36/48	30/36						
50/134	40/54	40/54	40/54	40/48	40/48	40/48	36/42	40/42	40/42	40/42	36/42	36/42	36/48	30/36						
60/141	36/48	36/42	36/42	36/42	36/42	36/42	36/42	36	36	36	36	36	36	30/36						
70/147	32/36	32/36	32/36	32/36	30/36	30/36	30	30	30	30	30	30	30	24						
80/154	30	30	30	30	30	30	30	24	24	24	24	24	24	24						
90/161	24	24	24	24	24	24	24	18	18	18	18	18	18	18						
30/120	60	60	54/60	54	48	42/48	36/42	54	48/54	42/54	42/54	36/42	36/48	30/36						
40/127	48/60	48/60	42/60	42/54	48	42/48	36/42	48	48	42/48	42/48	36/42	36/48	30/36						
50/134	40/54	40/54	40/54	40/48	40/48	40/48	36/42	40/42	40/42	40/42	36/42	36/42	36/48	30/36						
60/141	36/48	36/42	36/42	36/42	36/42	36/42	36/42	36	36	36	36	36	36	30/36						
70/147	32/36	32/36	32/36	32/36	30/36	30/36	30	30	30	30	30	30	30	24						
80/154	30/36	30/36	30/36	30/36	30/36	30/36	30	30	30	30	30	30	30	24						
90/161	30/36	30/36	30	30	30	30	30	24	24	24	24	24	24	24						

NOTES:

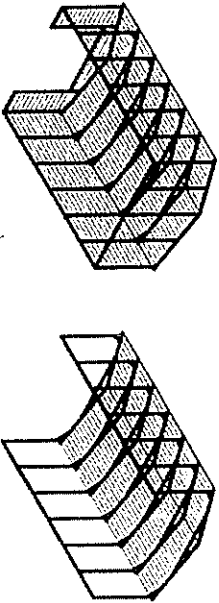
- FRAME SPACINGS ARE IN UNITS OF INCHES (IN).
- WHERE TWO VALUES ARE SHOWN, THE HIGHER VALUE CAN ONLY BE USED FOR VERTICAL SHEATHING.
- SNOW LOADS AND ROOF LIVE LOADS ARE IN POUNDS PER SQUARE FOOT (PSF). WIND SPEED IS 3 SEC. GUST IN MILES PER HOUR (MPH).
- FOR VALUES THAT LIE BETWEEN TWO CELLS, THE HIGHER (MORE STRINGENT) VALUE HAS TO BE USED. INTERPOLATION BETWEEN CELLS IS NOT ALLOWED.

ENCLOSURE CLASSIFICATION:

- ENCLOSED BUILDING = ALL 4 WALLS FULLY ENCLOSED WITH DOORS/WINDOWS = USE ENCLOSED BUILDING SPACING CHART.
- OPEN BUILDING = ALL 4 WALLS FULLY OPEN = USE OPEN BUILDING SPACING CHART.
- 3/1T PARTIALLY ENCLOSED = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ONLY 3/1T ENCLOSED = USE OPEN BUILDING SPACING CHART.
- PARTIALLY ENCLOSED = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ENCLOSED MORE THAN 3/1T = START WITH OPEN BUILDING SPACING CHART AND THEN REDUCE SPACING BY 6".
- 3 SIDED ENCLOSED = ALL WALLS ARE ENCLOSED EXCEPT FOR 1 END-WALL = START WITH ENCLOSED BUILDING SPACING + THE OPEN END FRAME MUST HAVE EITHER A GABLED END OR HAVE DOUBLED WELDED LEGS & ROOF.
- FOR ALL SHEATHING ENCLOSURES NOT LISTED ABOVE, REFER TO SHEET 5 FOR SPACING AND DESIGN REQUIREMENTS.

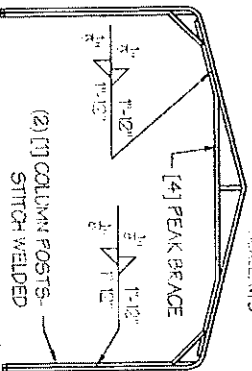
GENERAL NOTES:

- THE MAX. BUILDING LENGTH FOR ENCLOSED BUILDINGS IS 50'-0". THIS CAN BE INCREASED BY ADDING A DOUBLE FRAME AT THE CENTER TO BREAK THE LENGTH OF THE BUILDING.
- BUILDINGS WITH PARTIALLY ENCLOSED END WALLS NEED TO HAVE 6"OE WALL BRACING TO SUPPORT THE PARTIALLY ENCLOSED END WALL. (SEE FIGURE A ON SHEET 5).



TYP. ENCLOSED BUILDING

TYP. OPEN BUILDING

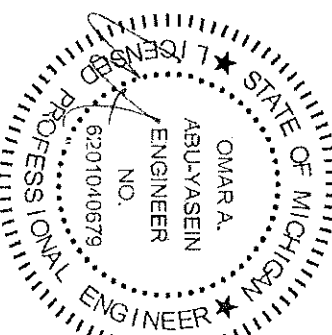


SEAL:

SHEET NO.: 4 / 11  
 DRAWN BY: AW DATE: 10/19/21  
 CHECKED BY: QAA DATE: 10/19/21

LEGAL INFORMATION

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 WWW.AAENGINEERING.COM

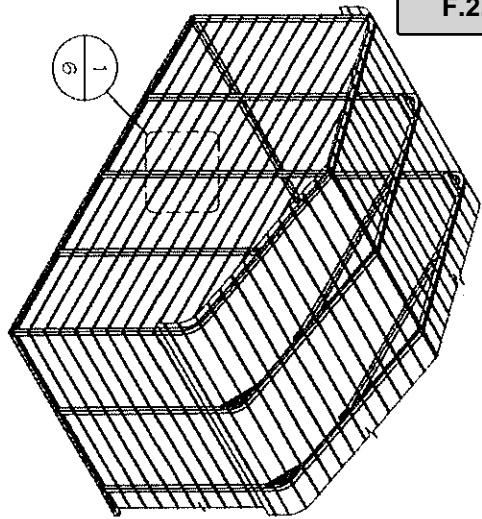
DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS  
 LOCATION: STATE OF MICHIGAN  
 PROJECT NO.: 227-20-1433  
 SHEET TITLE: SPACING SCHEDULES & ENCLOSURE NOTES

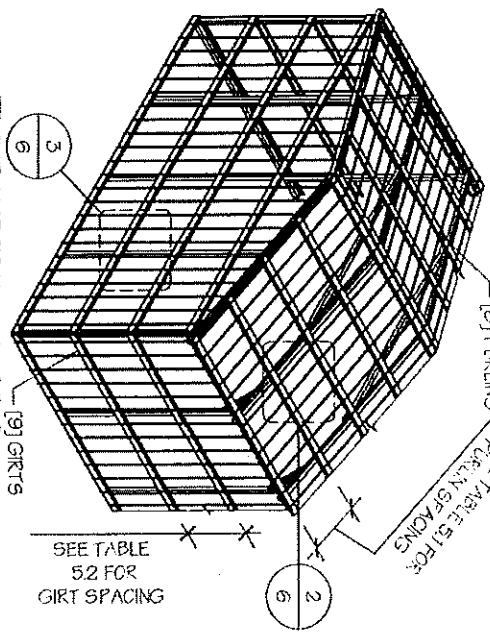


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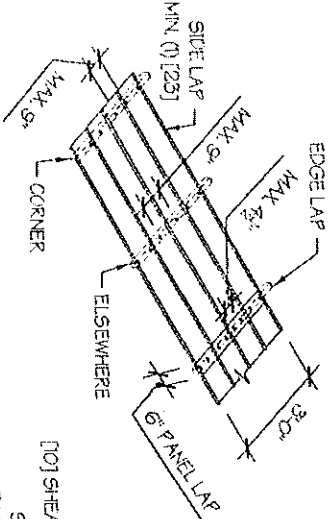


TYP. HORIZONTAL SHEATHING  
SCALE: NTS

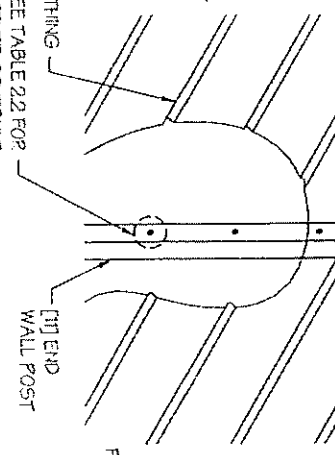


TYP. VERTICAL SHEATHING  
SCALE: NTS

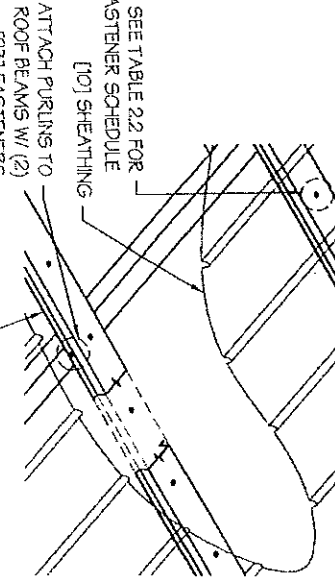
- GENERAL SHEATHING NOTES:**
1. REGULAR STYLE BUILDINGS CAN ONLY HAVE HORIZONTAL SHEATHING ON ROOF AND WALLS. A-FRAME STYLE BUILDINGS CAN HAVE ANY COMBINATION OF HORIZONTAL OR VERTICAL SHEATHING ON ROOFS AND WALLS. BOTH HORIZONTAL AND VERTICALS ROOF SHEATHING CAN HAVE MAX. 6" OVERHANG.
  2. USING VERTICAL SHEATHING MAY ALLOW FOR GREATER FRAME SPACING. SEE NOTE 2 UNDER TABLE 4.
  3. VERTICAL SHEATHING IS RECOMMENDED FOR BUILDINGS 30' OR LONGER.



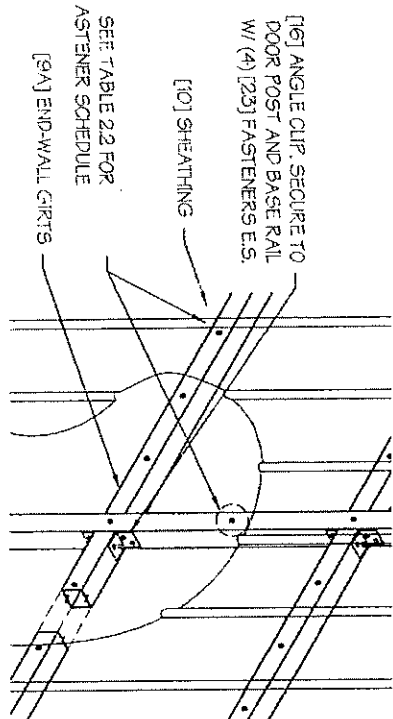
TYP. SHEATHING FASTENER SCHEDULE  
SCALE: NTS



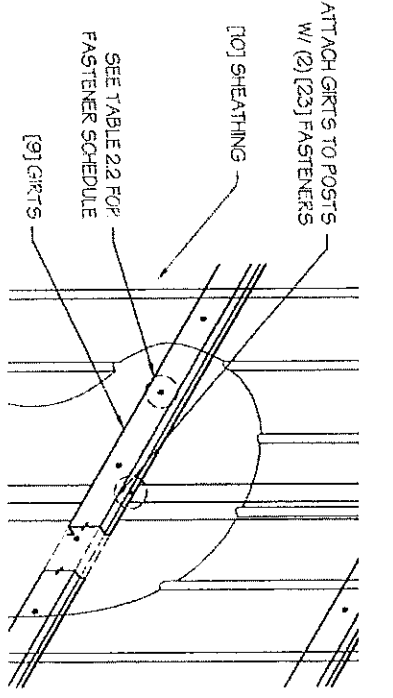
TYP. HORIZONTAL SHEATHING DETAIL  
SCALE: NTS



ROOF VERTICAL SHEATHING DETAIL  
SCALE: NTS



WALL VERTICAL SHEATHING - TUBE DETAIL  
SCALE: NTS



WALL VERTICAL SHEATHING - HAT CHANNEL DETAIL  
SCALE: NTS

Attachment: Backup SPR 22-27 - Full SPR (542) : SPR #22-27



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**DRAWING INFORMATION**

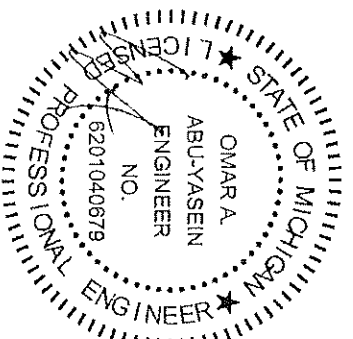
PROJECT: 30'-0" WIDE BUILDINGS  
LOCATION: STATE OF MICHIGAN  
PROJECT NO.: 227-20-1433  
SHEET TITLE: SHEATHING OPTIONS & DETAILS

SHEET NO.: 6 / 11  
DRAWN BY: A.W. DATE: 10/19/21  
CHECKED BY: OAA DATE: 10/19/21

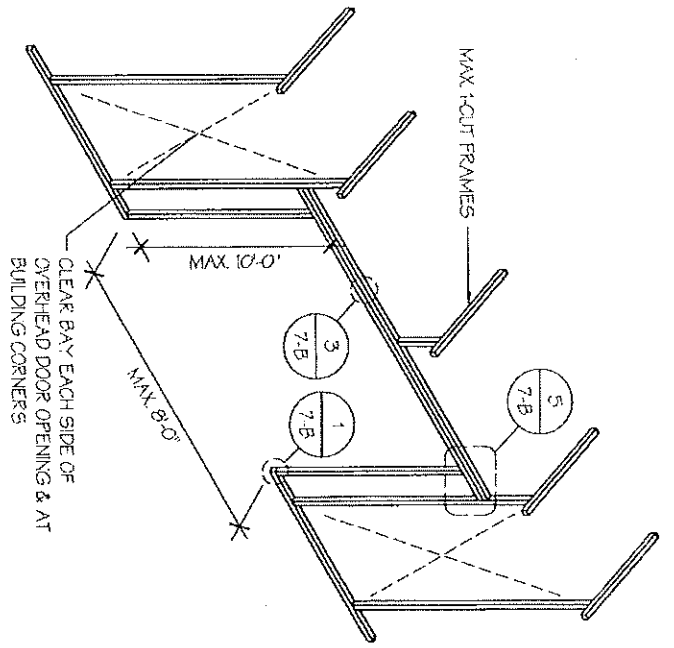
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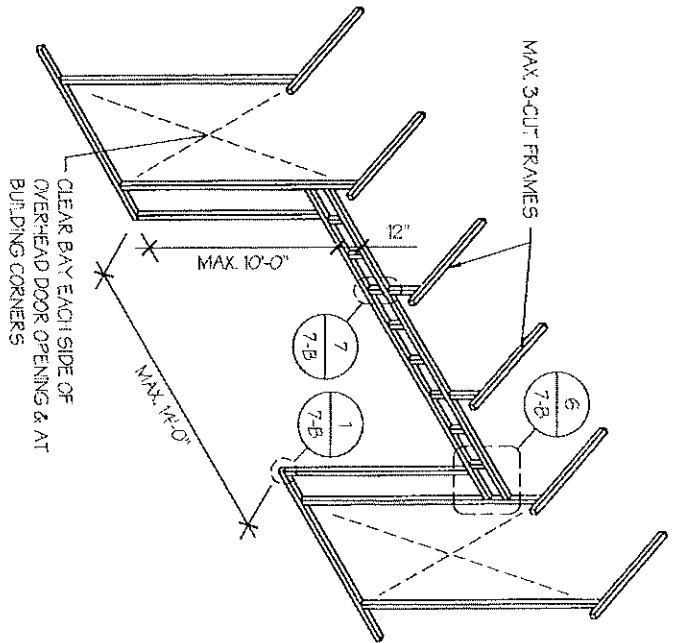
SEAL:



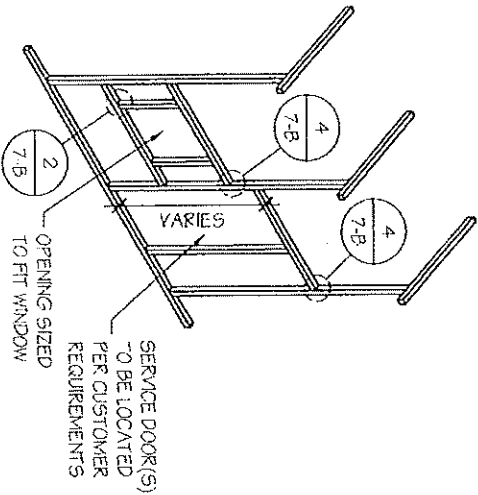
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DATE SIGNED: 10-20-2021



SIDE WALL OVERHEAD DOOR OPENINGS  
SCALE: NTS



SIDE WALL OVERHEAD DOOR OPENINGS  
WITH RUSS STYLE HEADER  
SCALE: NTS



SIDE WALL SERVICE DOOR / WINDOW OPENINGS  
SCALE: NTS

**SIDE WALL FRAMING NOTES:**

1. TRUSS-STYLE HEADERS ARE REQUIRED FOR WHERE THE GROUND SNOW LOAD IS 40 PSF OR GREATER.
2. DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR AND A-FRAME STYLE BUILDINGS.
3. MAX. HEIGHT OF SIDE WALL OVERHEAD DOOR OPENINGS IS 2 FT LESS THAN THE EAVE HEIGHT.
4. OVERHEAD DOOR OPENINGS CANNOT CUT THROUGH MORE THAN 2 FULL FRAMES.
5. MIN. 1 CLEAR BAY MUST BE MAINTAINED BETWEEN ANY 2 OVERHEAD DOOR OPENINGS. A CLEAR BAY IS A SPACE BETWEEN TWO FRAMES THAT HAS NO OVERHEAD DOOR OPENINGS.
6. MIN. 1 CLEAR BAY MUST ALSO BE MAINTAINED FROM THE BUILDING CORNERS.
7. SERVICE DOORS AND WINDOWS CAN BE PLACED IN CLEAR BAYS OR ANY WHERE ELSE AS NEEDED.



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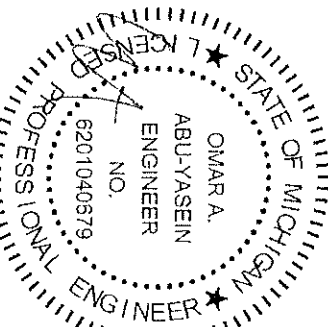
PROJECT: 30'-0" WIDE BUILDINGS  
LOCATION: STATE OF MICHIGAN  
PROJECT NO.: 227-20-1433  
SHEET TITLE:  
**SIDE WALL FRAMING & OPENINGS**

SHEET NO.: 7-A / 11  
DRAWN BY: AW DATE: 10/19/21  
CHECKED BY: OAA DATE: 10/19/21

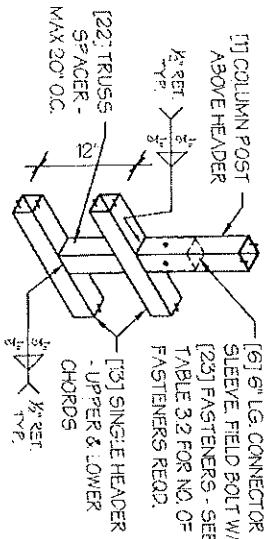
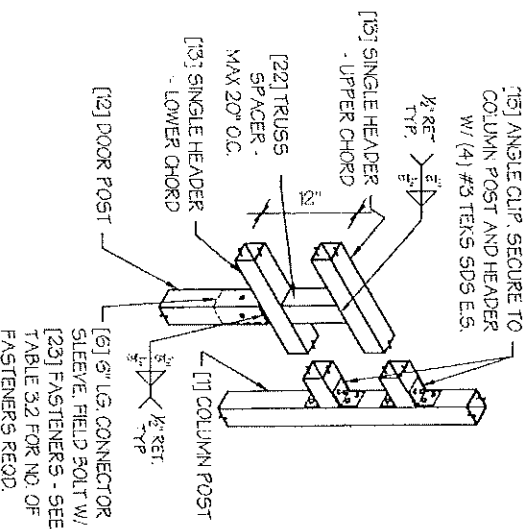
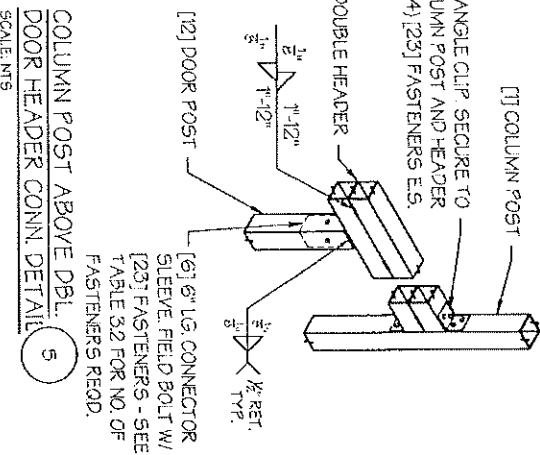
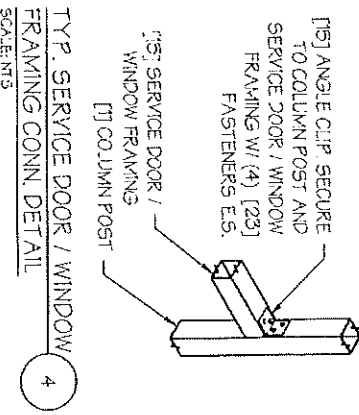
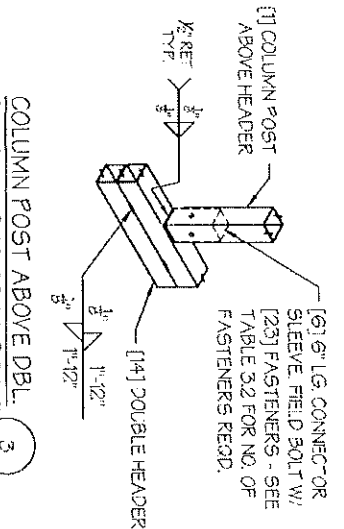
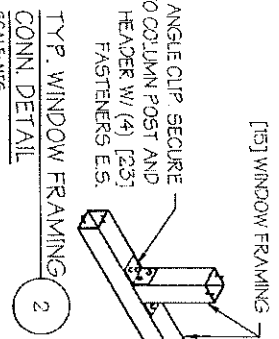
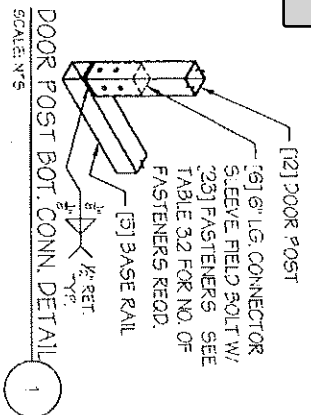
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COLUMN POST ABOVE TRUSS  
DOOR HEADER CONN. DETAIL 7  
SCALE: NTS

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**DRAWING INFORMATION**

PROJECT: 30'-0" WIDE BUILDINGS  
LOCATION: STATE OF MICHIGAN  
PROJECT NO.: 227-20-1433  
SHEET TITLE: SIDE WALL FRAMING DETAILS

SHEET NO.: 7-B / 11  
DRAWN BY: A.W. DATE: 10/19/21  
CHECKED BY: OAA DATE: 10/19/21

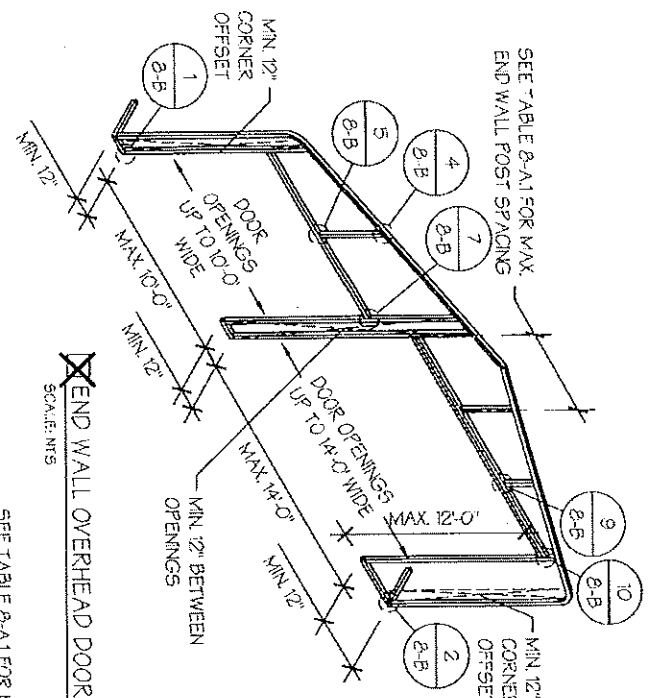
**LEGAL INFORMATION**

OMAR A. ABU-YASEIN  
ENGINEER  
NO. 62201040679

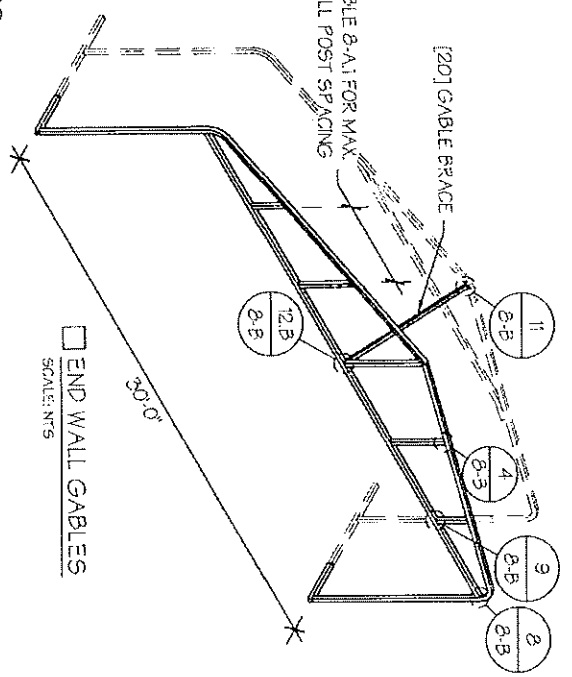
STATE OF MICHIGAN PROFESSIONAL ENGINEER

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DATE SIGNED: 10-20-2021

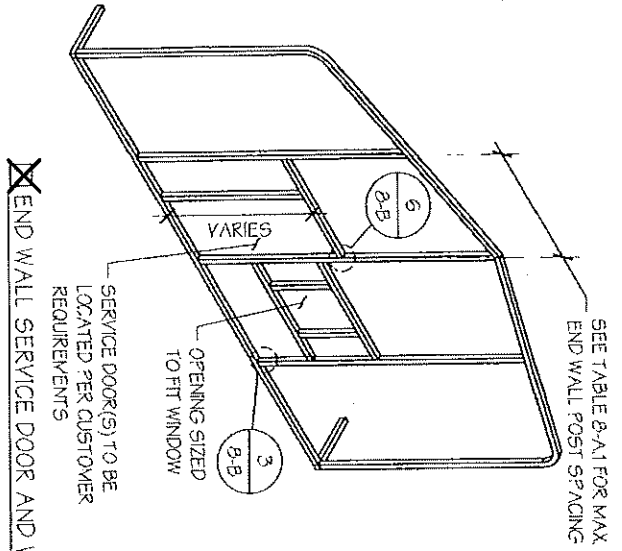
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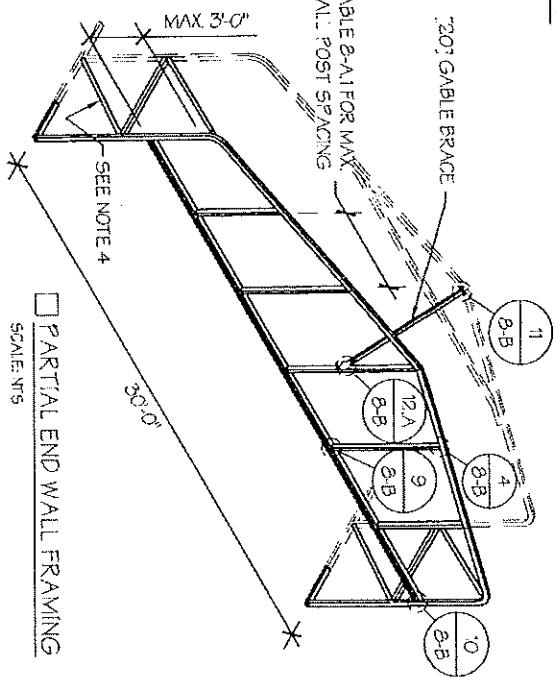
**END WALL OVERHEAD DOOR OPENINGS**  
SCALE: NTS



**END WALL GABLES**  
SCALE: NTS



**END WALL SERVICE DOOR AND WINDOW OPENINGS**  
SCALE: NTS



**PARTIAL END WALL FRAMING**  
SCALE: NTS

**TABLE 8-A.1: END WALL POST SPACING SCHEDULE**

WIND SPEED (MPH)	EAVE HEIGHT			
	UP TO 7'	8'-0" TO 9'	10'-0" TO 12'	13'-0" TO 15'
105	5'	5'	5'	5'
115	5'	5'	5'	4.5'
130	4.5'	4.5'	4.5'	4'
140	4.5'	4.5'	4.5'	3'
155	4'	4'	4'	2.5'
165 - 190	3.5'	3'	3'	2'

- END WALL FRAMING NOTES:**
- DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR AND A-FRAME STYLE BUILDINGS.
  - MIN. 12" CLEARANCE MUST BE MAINTAINED BETWEEN ANY TWO OPENINGS (OVERHEAD DOOR OR SERVICE DOOR) AND FROM CORNERS.
  - SERVICE DOORS AND WINDOWS CAN BE PLACED AS NEEDED.
  - DIAGONAL BRACES NEED TO BE ADDED FOR PARTIAL END WALL ENCLOSURES. SEE SHEET 9 FOR DIAGONAL BRACE CONNECTION DETAILS.

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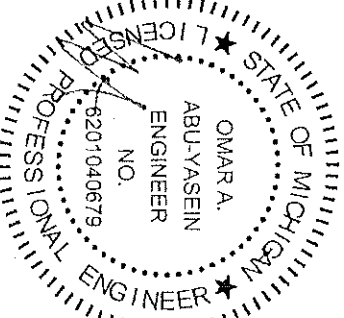


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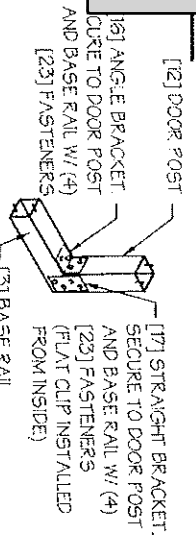
**DRAWING INFORMATION**  
PROJECT: 30'-0" WIDE BUILDINGS  
LOCATION: STATE OF MICHIGAN  
PROJECT NO.: 227-20-1433  
SHEET TITLE: END WALL FRAMING

SHEET NO.: 8-A / 11  
DRAWN BY: A.W. DATE: 10/19/21  
CHECKED BY: OAA DATE: 10/19/21

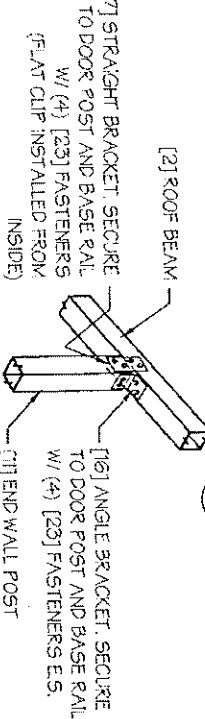
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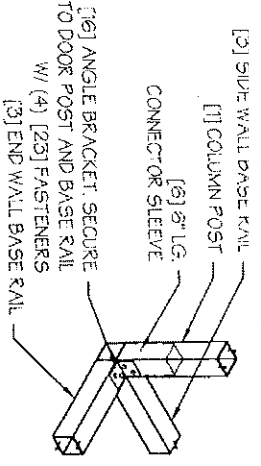
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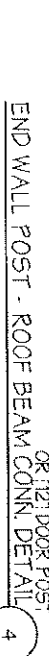
DOOR POST BASE RAIL CONN DETAIL  
SCALE: NTS 1



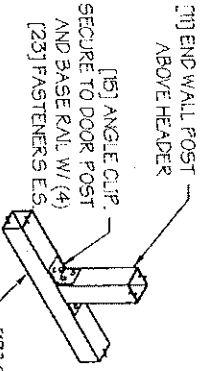
CORNER DETAIL  
SCALE: NTS 2



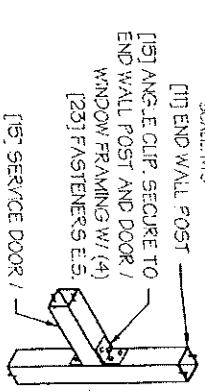
END WALL POST ABOVE HEADER CONN DETAIL  
SCALE: NTS 3



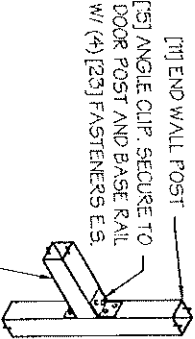
END WALL POST - ROOF BEAM CONN DETAIL  
SCALE: NTS 4



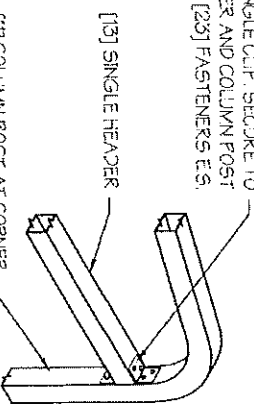
END WALL POST ABOVE HEADER CONN DETAIL  
SCALE: NTS 5



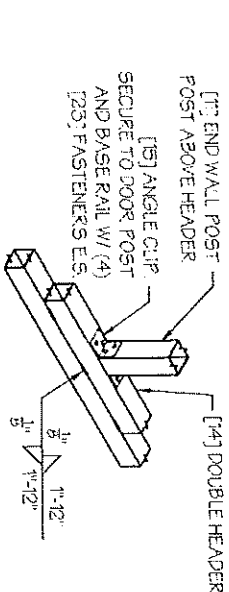
TYP. SERVICE DOOR / WINDOW FRAMING CONN DETAIL  
SCALE: NTS 6



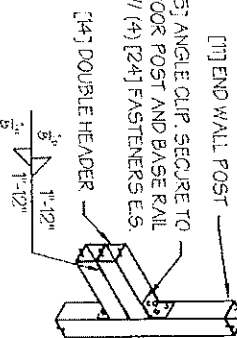
HEADER - END WALL POST CONN DETAIL  
SCALE: NTS 7



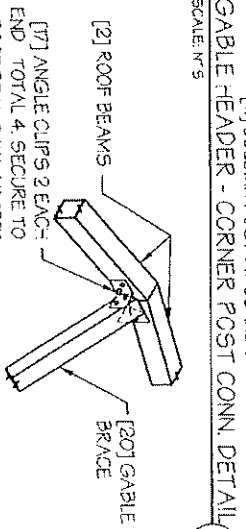
GABLE HEADER - CORNER POST CONN DETAIL  
SCALE: NTS 8



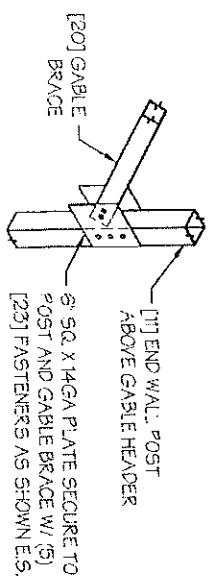
END WALL POST ABOVE DOUBLE HEADER CONN DETAIL  
SCALE: NTS 9



DOUBLE HEADER - END WALL POST CONN DETAIL  
SCALE: NTS 10



TYP. GABLE BRACE CONN DETAIL  
SCALE: NTS 11



GABLE BRACE - END WALL CONN DETAIL  
SCALE: NTS 12

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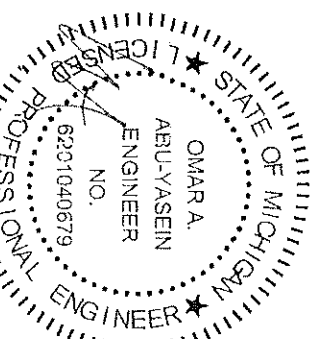
**DRAWING INFORMATION**

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LOCATION: STATE OF MICHIGAN  
PROJECT NO.: 227-20-1433  
SHEET TITLE: END WALL FRAMING DETAILS

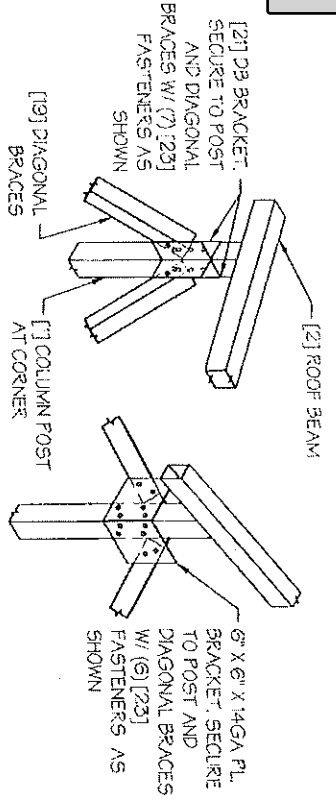
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DRAWN BY: A.W. DATE: 10/19/21  
CHECKED BY: OAA DATE: 10/19/21

**LEGAL INFORMATION**

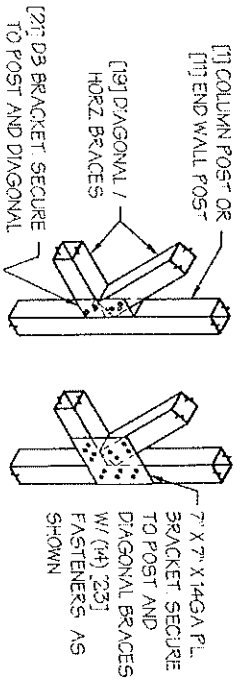
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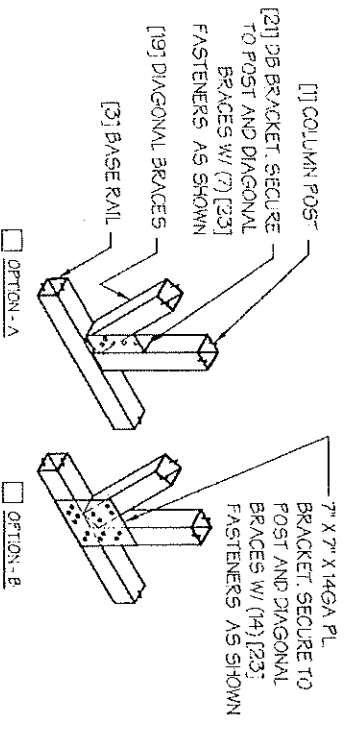
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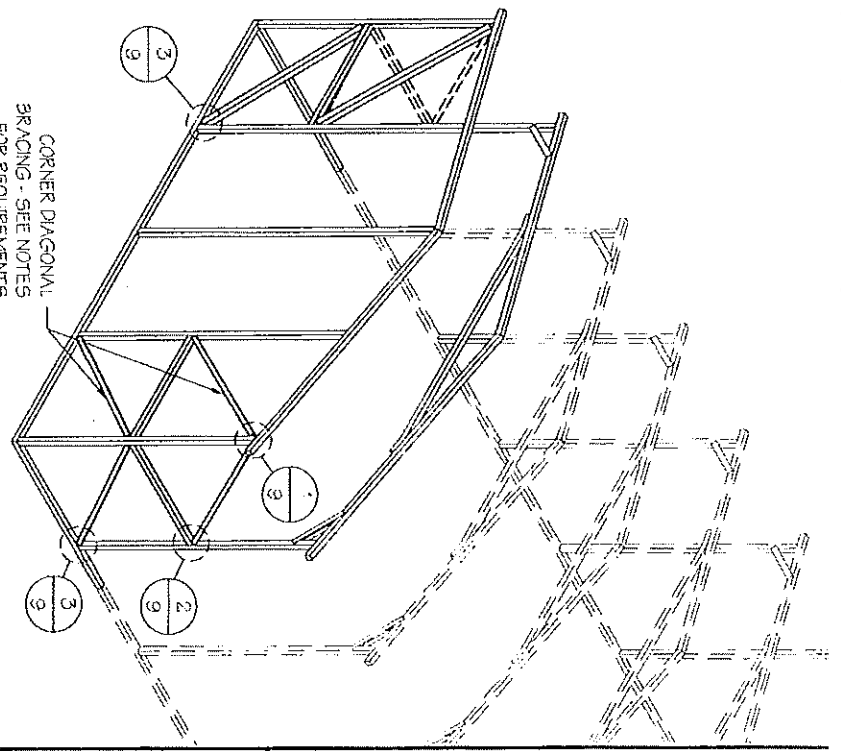
DIAGONAL BRACE TOP CORNER CONN. DETAIL\* 1  
SCALE: NTS



DIAGONAL BRACE - POST CONN. DETAIL\* 2  
SCALE: NTS



DIAGONAL BRACE BOT. CORNER CONN. DETAIL\* 3  
SCALE: NTS



DIAGONAL BRACING AT CORNERS  
SCALE: NTS

**CORNER BRACING NOTES:**

1. DIAGONAL BRACING AT BUILDING CORNERS IS REQUIRED FOR ALL BUILDINGS IN LOCATIONS WHERE WIND SPEED IS 140 MPH OR GREATER. FOR 3 SIDED ENCLOSED BUILDINGS 140 MPH OR GREATER WIND SPEED - THE BUILDING MUST BE DESIGNED WITH OPEN BUILDING SPACING AND DIAGONAL BRACING IS REQUIRED ON ALL ENCLOSED WALLS.
2. SIDE-WALL DIAGONAL BRACING IS REQUIRED WHEN THE ADJACENT END-WALL IS PARTIALLY ENCLOSED.
3. ALL BUILDINGS WITH IRREGULAR ENCLOSURE (SEE SHEET 5) WILL REQUIRE SIDE-WALL BRACING CLOSE TO THE PARTIALLY ENCLOSED END-WALL.

Attachment: Backup SPR 22-27 - Full SPR 12451 : SPR #22-27

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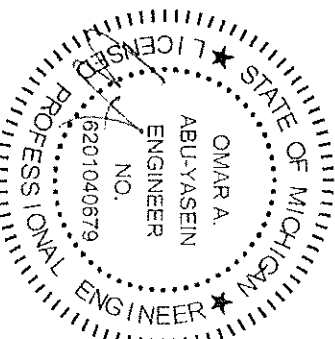
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LOCATION: STATE OF MICHIGAN  
PROJECT NO.: 227-20-1433  
SHEET TITLE: CORNER BRACING DETAILS

SHEET NO.: 9 / 11  
DRAWN BY: A.W. DATE: 10/19/21  
CHECKED BY: OAA DATE: 01/19/22

**LEGAL INFORMATION**

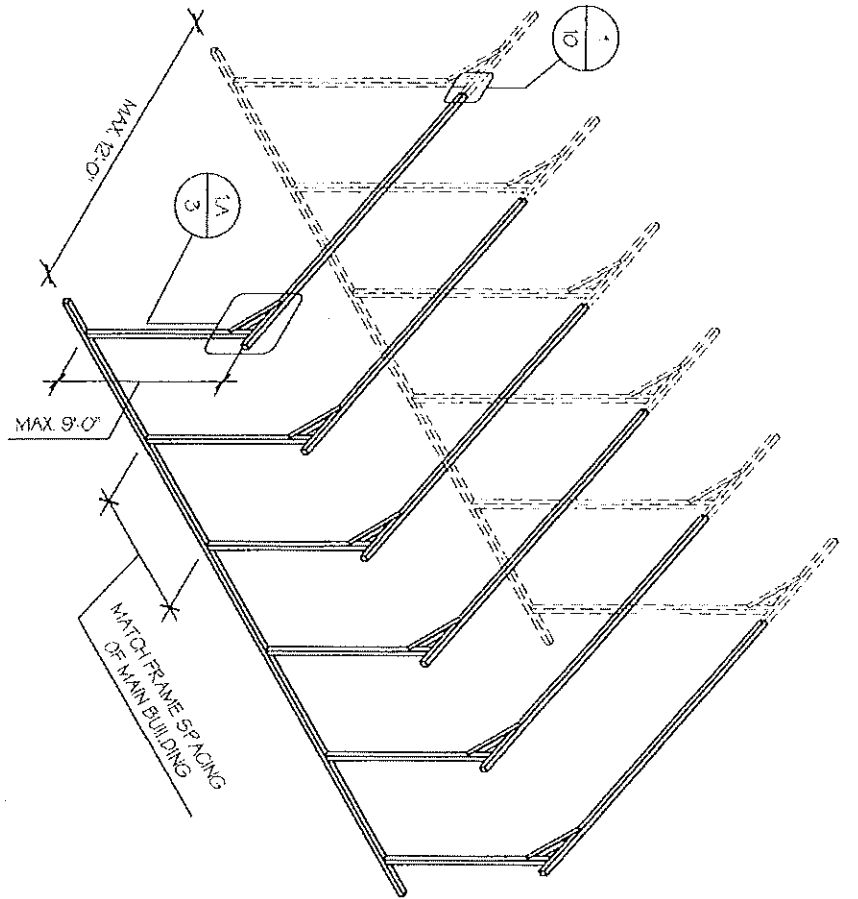
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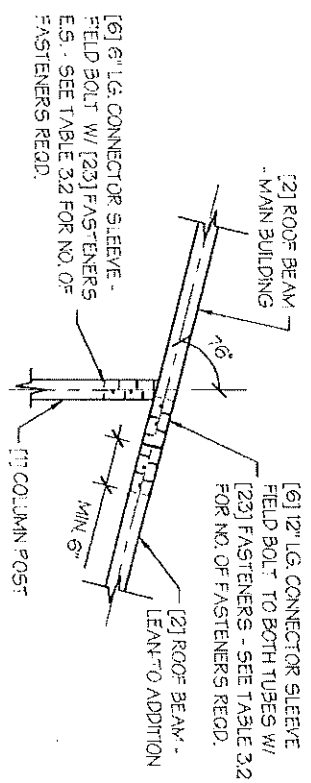


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\* INSIDE VIEW SHOWN FOR CLARITY



OPTIONAL LEAN-TO ADDITION  
SCALE: NTS



LEAN-TO ATTACHMENT DETAIL  
SCALE: NTS

**LEAN-TO ADDITION NOTES:**

1. LEAN-TO ADDITIONS CAN BE ADDED ON EITHER OR BOTH SIDES OF THE BUILDING.
2. ROOF SLOPE, PURLIN, GIRT AND FRAME SPACING OF THE ADDITION HAVE TO MATCH THAT OF THE MAIN STRUCTURE.
3. IF THE LEAN-TO ADDITION IS OPEN (BOTH END WALLS OR SIDE WALL IS NOT ENCLOSED), THE DESIGN OF THE MAIN BUILDING HAS TO USE THE FRAME SPACING OF AN OPEN BUILDING FROM TABLE 4.



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**DRAWING INFORMATION**

PROJECT: 30'-0" WIDE BUILDINGS  
LOCATION: STATE OF MICHIGAN  
PROJECT NO.: 227-20-1433  
SHEET TITLE:  
OPTIONAL LEAN-TO  
ADDITION

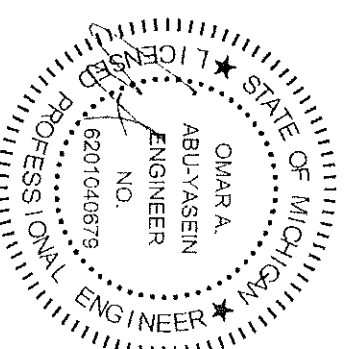
SHEET NO.: 10 / 11  
DATE: 10/19/21

DRAWN BY: A.W. DATE: 10/19/21  
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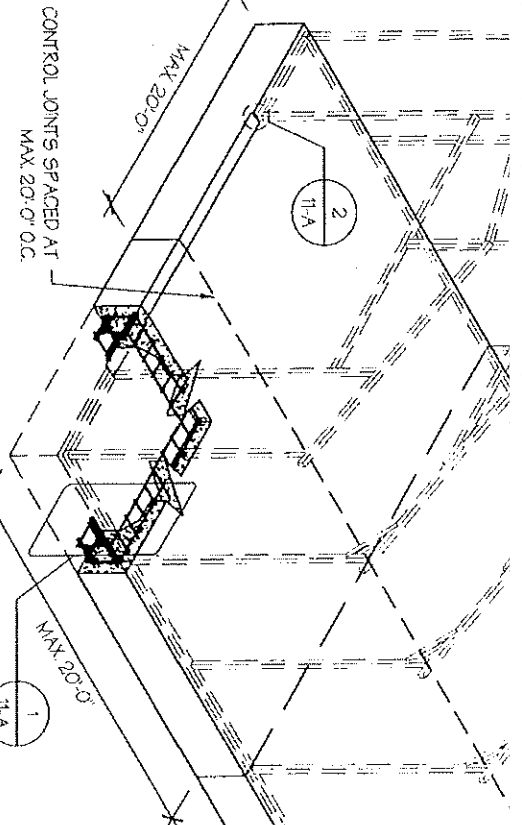
SEAL:



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DATE SIGNED: 10-20-2021

CONCRETE SLAB FOUNDATION NOTES:

- DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE SLAB FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEET G-11-A THRU D CAN BE USED. CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON EITHER SIDE OF OPENINGS. TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL. IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST.
- ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING.
- WIN. NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN IN TABLE 11-A.2.
- THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS 5/8" FOR 14GA MATERIAL AND 5/4" FOR 12GA MATERIAL. DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
- CONTROL JOINTS SHALL BE PLACED 50 AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
- ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
- CONCRETE STRENGTH TO BE A MIN. OF 2500 PSI @ 28 DAYS.



CONCRETE SLAB FOUNDATION

SCALE: NTS

TABLE 11-A.2: CONCRETE SLAB ANCHOR SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	105 TO 135	(1) 1/2" Ø X 7"
ENCLOSED	136 TO 180	(2) 1/2" Ø X 7"
ENCLOSED	105 TO 135	(1) 1/2" Ø X 7"
OPEN	136 TO 180	(2) 1/2" Ø X 7"

NOTES:  
 1. ANCHORS ARE TO BE CONCRETE WEDGE OR EXP ANSION ANCHORS.  
 2. MIN. EMBEDMENT DEPTH TO BE 25".  
 3. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

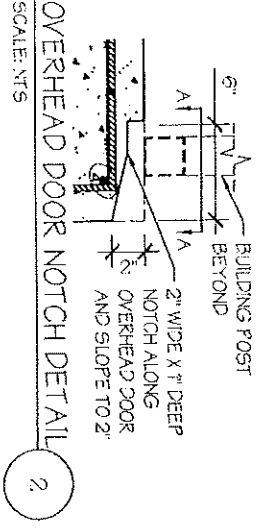
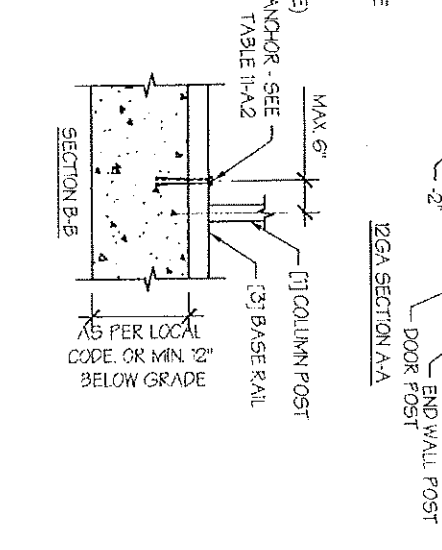
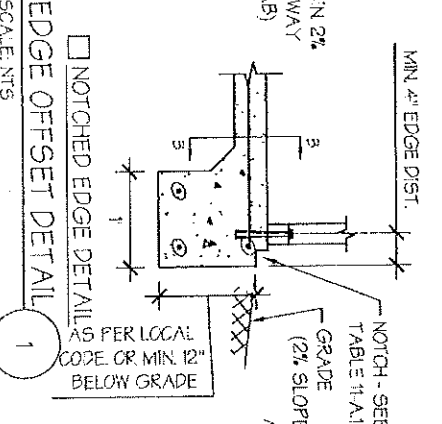
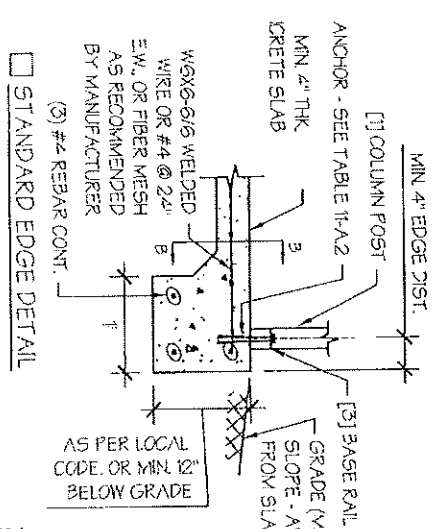


TABLE 11-A.1: NOTCH WIDTH

HORIZONTAL/OPEN	VERTICAL
14GA	12GA
12GA	14GA
2 3/4"	2 7/8"
	1 3/4"
	1 7/8"

NOTE: DEPTH IS TO BE 1 1/2"



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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS  
 LOCATION: STATE OF MICHIGAN  
 PROJECT NO.: 227-20-1433  
 SHEET TITLE: FOUNDATION OPTION 1: CONCRETE SLAB

SHEET NO.: 11-A / 11  
 DRAWN BY: A.W. DATE: 10/19/21  
 CHECKED BY: OAA DATE: 10/19/21

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STATE OF MICHIGAN PROFESSIONAL ENGINEER

OMAR A. ABU-YASEIN  
 ENGINEER  
 NO. 6201040679

STAMP EXPIRY: 03-24-2024  
 DATE SIGNED: 10-20-2021

CONCRETE SLAB FOUNDATION NOTES:

- DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE SLAB FOUNDATION ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THROUGH C CAN BE USED.
- CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON EITHER SIDE OF OPENINGS. TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL. IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST.
- ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING.
- MIN. NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN IN TABLE 11-A.1.
- THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS 1/2" FOR 14GA MATERIAL AND 1" FOR 12GA MATERIAL.
- DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
- CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
- ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
- CONCRETE STRENGTH TO BE A MIN. OF 2500 PSI @ 28 DAYS.

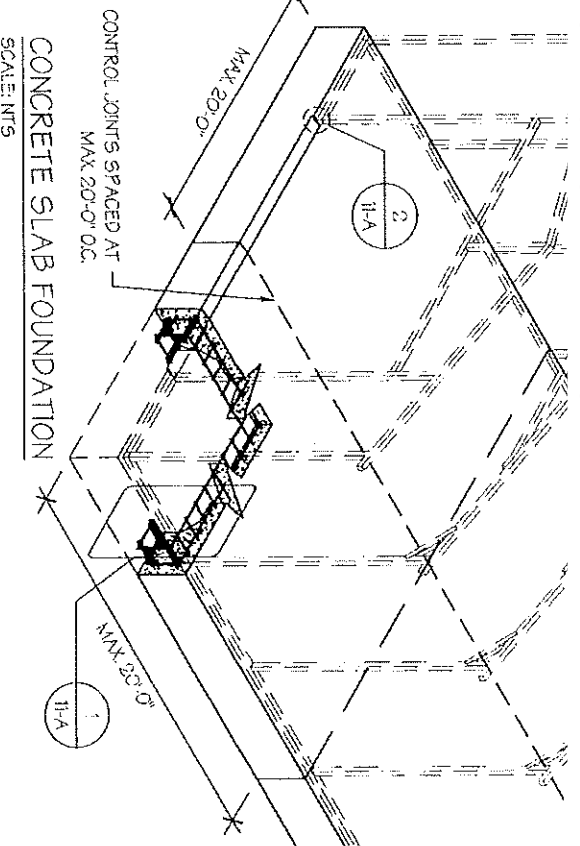
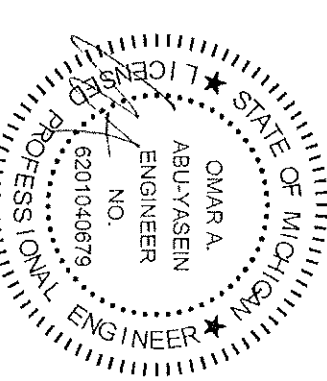
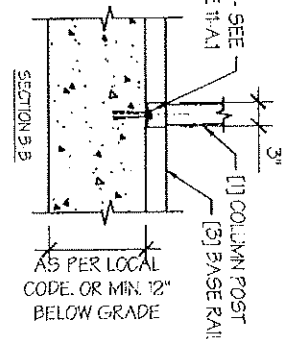
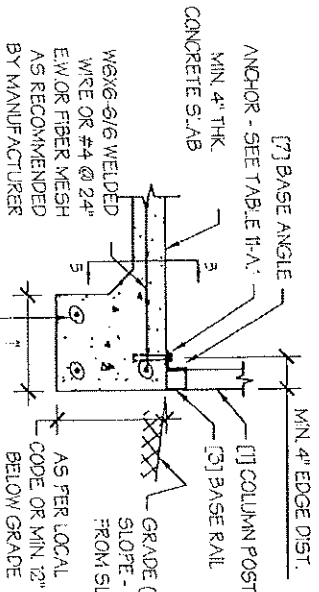
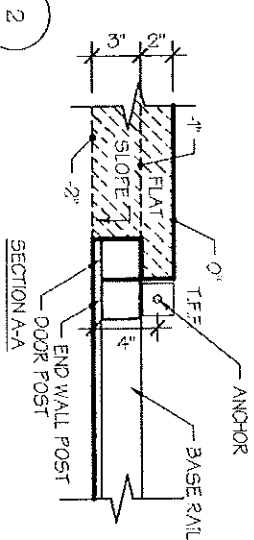
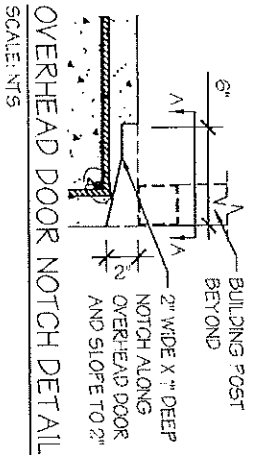


TABLE 11-A.1: CONCRETE SLAB ANCHOR SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	105 TO 135	(1) 1/2" Ø X 7"
	136 TO 180	(2) 1/2" Ø X 7"
OPEN	105 TO 155	(1) 1/2" Ø X 7"
	136 TO 180	(2) 1/2" Ø X 7"

- NOTES:
- ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
  - MIN. EMBEDMENT DEPTH TO BE 2 1/2"
  - ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.



LEGAL INFORMATION

ANY DUPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW. DRAWINGS ARE VALID UP TO DATE OF EXPIRATION.

SEAL:

DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 227-20-1433

SHEET TITLE: FOUNDATION OPTION 1: CONCRETE SLAB

SHEET NO.: 11-A / 11

DRAWN BY: A.W. DATE: 10/19/21

CHECKED BY: DAA DATE: 10/19/21

ENGINEERED BY:

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MIDWEST STEEL CARPORT

Packet Pg. 35

STAMP EXPIRY: 03-24-2024  
DATE SIGNED: 10-20-2021

TABLE 11-B.1: ANCHOR SCHEDULE

CLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	105 TO 135	(1) 1/2" Ø X 7"
	136 TO 180	(2) 1/2" Ø X 7"
OPEN	105 TO 135	(1) 1/2" Ø X 7"
	136 TO 180	(2) 1/2" Ø X 7"

NOTES:

1. ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
2. MIN. EMBEDMENT DEPTH TO BE 2 $\frac{1}{2}$ ".
3. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

TABLE 11-B.2: CONC. STRIP SCHEDULE

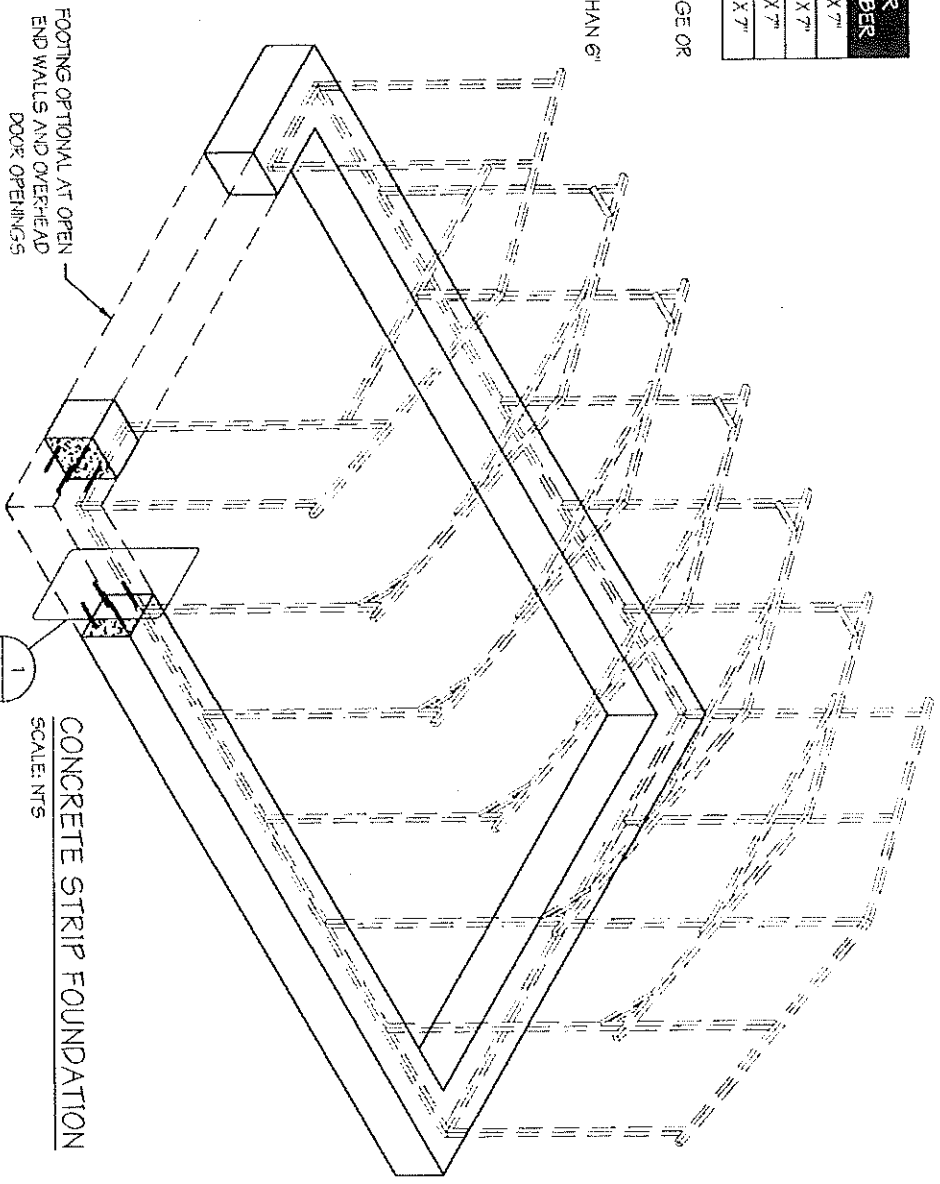
WIND SPEED (MPH)	MIN. SIZE REQD.
105 TO 130	15" X 12"
140 TO 155	24" X 12"
165 TO 180	30" X 12" 24 X 15" 20" X 18"

NOTES:

1. WIDTH AND DEPTH DIMENSIONS CAN BE INTERCHANGED.

CONCRETE STRIP FOUNDATION NOTES:

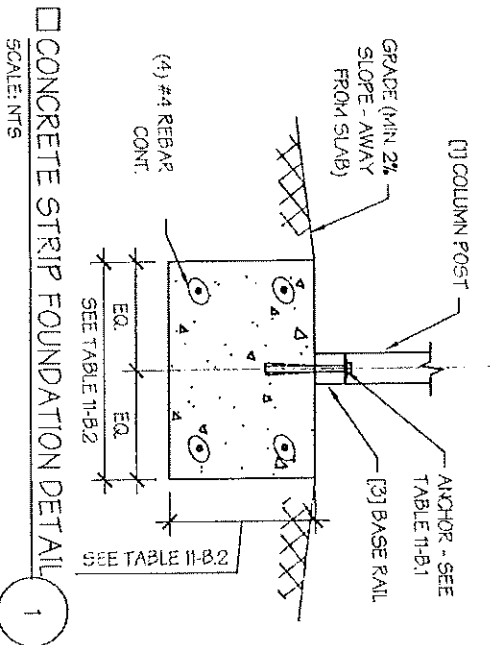
1. DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE STRIP FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED.
2. CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON EITHER SIDE OF OPENINGS. TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL. IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST.
3. MIN. NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN IN TABLE 11-B.1.
4. DEPTH OF CONCRETE STRIP FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
5. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
6. CONCRETE STRENGTH TO BE A MIN. OF 2500 PSI @ 28 DAYS.
7. BUILDING IS TO BE MOUNTED ON THE CENTER OF THE STRIP FOUNDATION.



CONCRETE STRIP FOUNDATION

SCALE: NTS

FOOTING OPTIONAL AT OPEN END WALLS AND OVER-HEAD DOOR OPENINGS



CONCRETE STRIP FOUNDATION DETAIL

SCALE: NTS



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DRAWING INFORMATION

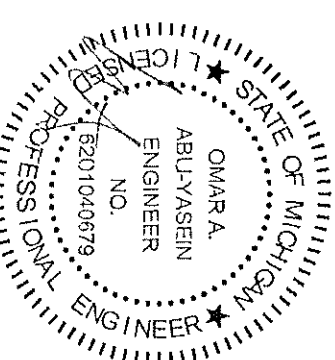
PROJECT: 30'-0" WIDE BUILDINGS  
LOCATION: STATE OF MICHIGAN  
PROJECT NO.: 227-20-1433  
SHEET TITLE: FOUNDATION OPTION 2: CONCRETE STRIP

LEGAL INFORMATION

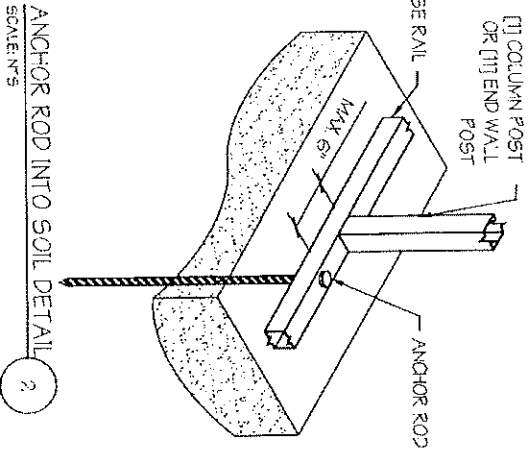
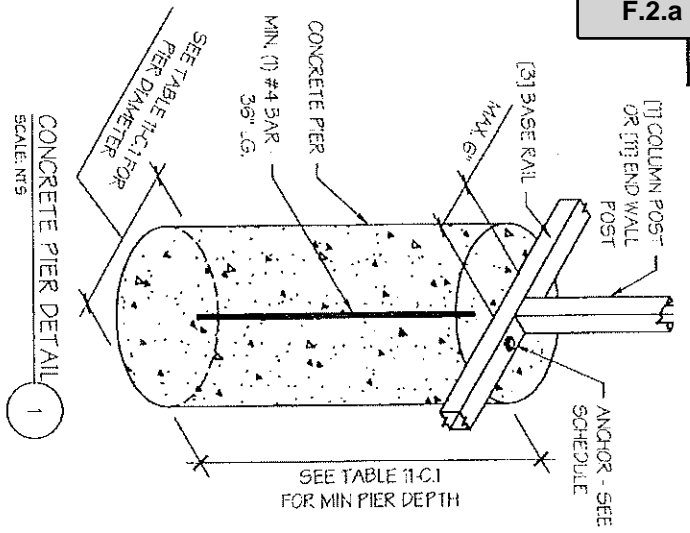
SHEET NO.: 11-B / 11  
DRAWN BY: A.W. DATE: 10/19/21  
CHECKED BY: OAA DATE: 10/19/21

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- Drawings are valid up to date of expiration.

SEAL:



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DATE SIGNED: 10-20-2021



CONCRETE PIER FOUNDATION NOTES:

- DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE PIER FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED.
- CONCRETE PIERS SHALL BE LOCATED AT ALL 4 CORNERS, ON EACH SIDE OF OVERHEAD POOR OPENINGS, AND ON ALTERNATE INTERIOR COLUMN POSTS AND END WALLS POSTS.
- TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL, IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND. ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST WITH A PIER.
- ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING.
- MIN. NUMBER OF CONCRETE ANCHORS PER POST WITH A PIER SHALL BE AS SHOWN IN TABLE 11-A.2.
- TWO ANCHORS AND A PIER ARE REQUIRED AT DIAGONAL BRACING.
- ALL POSTS NOT SUPPORTED ON CONCRETE PIERS SHALL BE ANCHORED TO THE GROUND WITH A 1/2" X 30" LG. THREADED ROD. RODS WILL HAVE A PRE-FORMED HEAD AT THE TOP AND ONE COAT OF RUST PROOF MATERIAL. PIERS SHALL BE FORMED BY DIGGING A HOLE OF THE SAME SIZE AS THE PIER ON LEVEL GRADE AND FILLING IT WITH CONCRETE. THRD. ROD ANCHORS SHOULD BE DROPPED INTO THE PIERS PRIOR TO POURING THE CONCRETE.
- ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
- CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.

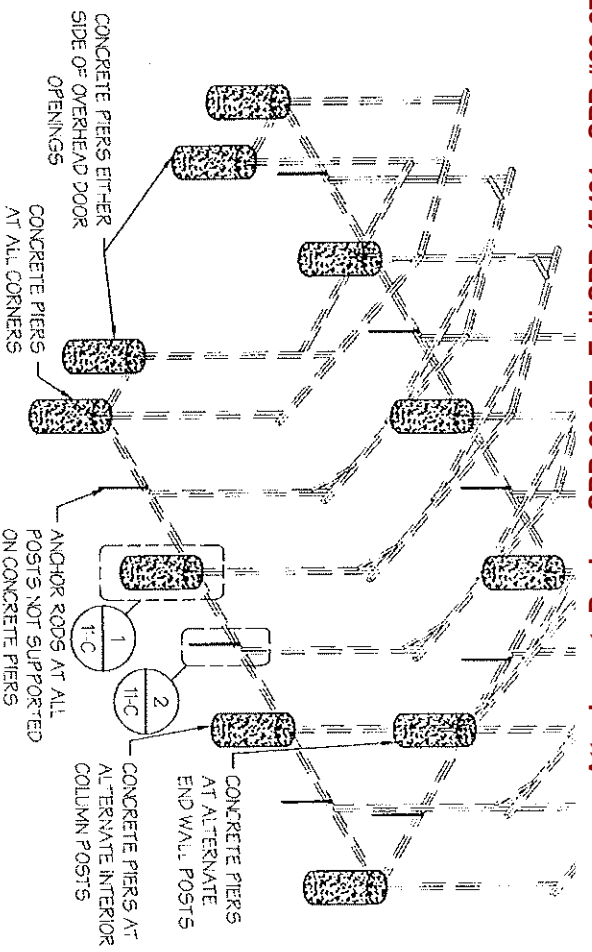


TABLE 11-B.1: ANCHOR SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	105 TO 135	(1) 1/2"Ø X 7"
	136 TO 180	(2) 1/2"Ø X 7"
OPEN	105 TO 135	(1) 1/2"Ø X 7"
	136 TO 190	(2) 1/2"Ø X 7"

NOTES:

- ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
- MIN. EMBEDMENT DEPTH TO BE 2 $\frac{1}{2}$ "
- ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

ANCHOR ROD INTO SOIL DETAIL 2

TABLE 11-C.1: CONC. PIER SCHEDULE

WIND SPEED (MPH)	MIN. SIZE (CONC.)
105 TO 130	24"Ø X 36"
140 TO 155	24"Ø X 42"
165 TO 190	24"Ø X 48"

Attachment: Backup SPR 22-22-27 - Full SPR 12451 : SPR #22-22



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DRAWING INFORMATION

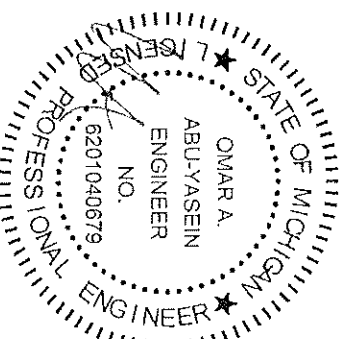
PROJECT: 30'-0" WIDE BUILDINGS  
LOCATION: STATE OF MICHIGAN  
PROJECT NO.: 227-20-1435  
SHEET TITLE: FOUNDATION OPTION 3: CONCRETE PIERS

SHEET NO.: 1-C / 11  
DRAWN BY: A.W. DATE: 10/19/21  
CHECKED BY: CAA DATE: 10/19/21

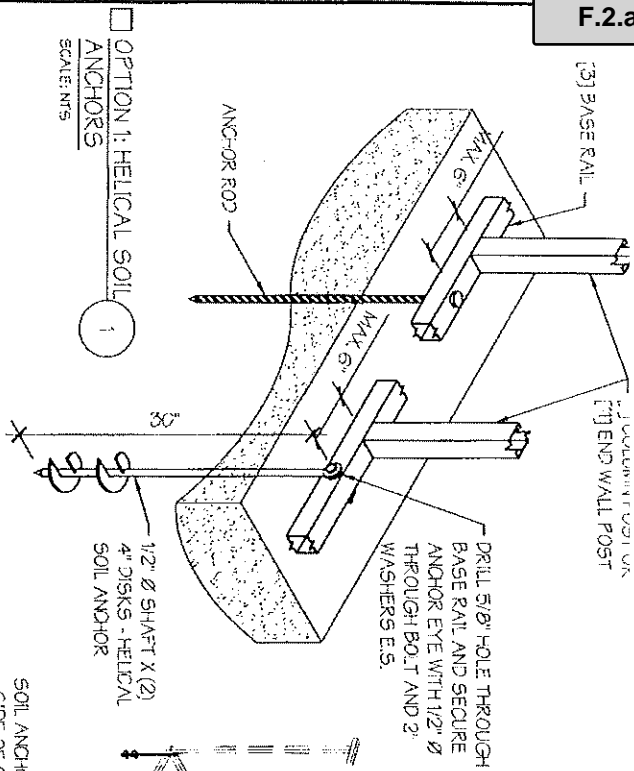
LEGAL INFORMATION

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SEAL:



STAMP EXPIRY: 03-24-2024  
DATE SIGNED: 10-20-2021



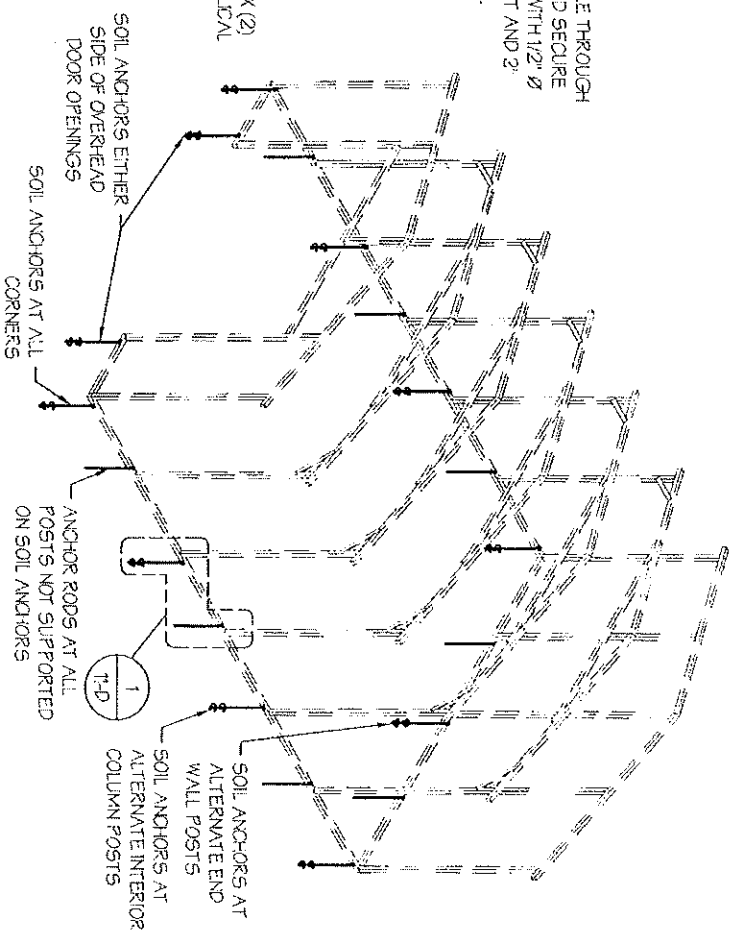
OPTION 1: HELICAL SOIL ANCHORS  
SCALE: NTS

**SOIL FOUNDATION NOTES:**

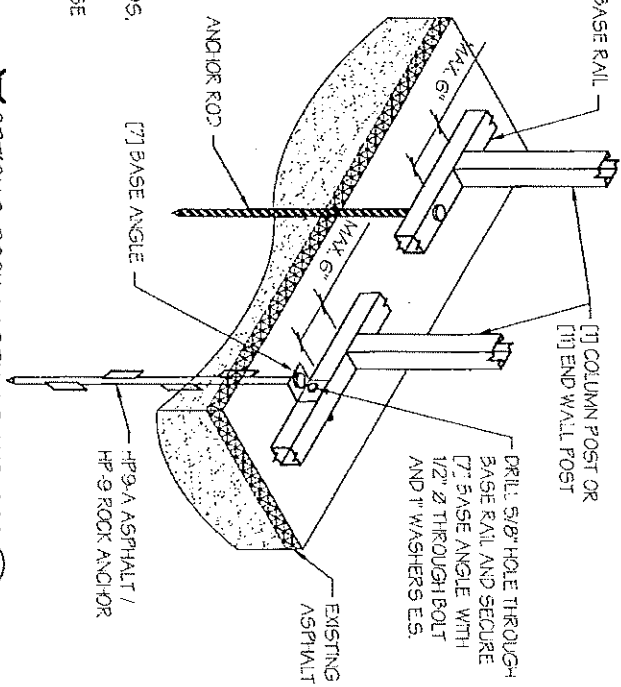
1. DESIGNS SHOWN ON THIS SHEET ARE FOR SOIL ANCHOR FOUNDATION.
2. SOIL ANCHORS (HELICAL OR ROCK/ASPHALT) SHALL BE LOCATED AT ALL 4 CORNERS, ON EACH SIDE OF OVERHEAD DOOR OPENINGS, ON POSTS WITH DIAGONAL BRACING IF REQUIRED, AND ON ALTERNATE INTERIOR COLUMN POSTS AND END WALLS POSTS.
3. HELICAL ANCHORS ARE TO BE USED ONLY IF THE DRIVING TORQUE INTO THE GROUND IS 150 FT.-LBS OR GREATER. MANUFACTURER IS NOT RESPONSIBLE FOR SOIL QUALITY AT SITE.
4. HELICAL ANCHORS CAN ONLY BE USED FOR CLASS 2, 3 & 4 SOILS (SEE SOIL CLASSIFICATIONS THIS PAGE).
5. ALL POSTS WITH NO ANCHORS ADJACENT SHALL BE ANCHORED TO THE GROUND WITH A 1/2" X 30" LG. ROD. RODS WILL HAVE A PRE-FORMED HEAD AT THE TOP AND ONE COAT OF RUST PROOF MATERIAL.
6. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.

**SOIL CLASSIFICATIONS:**

SOIL CLASS	DESCRIPTION
2	SANDY GRAVEL AND GRAVEL, VERY THIN DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL/COBBLES, PRELOADED SILTS, CLAYS AND CORAL.
3	SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL, MEDIUM DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILT AND SANDY CLAYS.
4	LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS AND ALLUMAL FILLS.



**SOIL FOUNDATION**  
SCALE: NTS



OPTION 2: ROCK / ASPHALT ANCHORS  
SCALE: NTS

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**DRAWING INFORMATION**  
PROJECT: 30'-0" WIDE BUILDINGS  
LOCATION: STATE OF MICHIGAN  
PROJECT NO.: 227-20-1453  
SHEET TITLE: FOUNDATION OPTION 4: SOIL ANCHORS

SHEET NO.: 1-D / 11  
DRAWN BY: A.W. DATE: 10/19/21  
CHECKED BY: OAA DATE: 10/19/21

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STATE OF MICHIGAN  
OMAR A. ABU-YASEIN  
ENGINEER  
NO. 6201040679  
PROFESSIONAL ENGINEER

STAMP EXPIRY: 03-24-2024  
DATE SIGNED: 10-20-2021