



# GREEN LAKE COUNTY HIGHWAY COMMISSIONER

Barry Mashuda  
Highway Commissioner

Office: 920-294-4060

Fax: 920-294-4066

Email: [bmashuda@co.green-lake.wi.us](mailto:bmashuda@co.green-lake.wi.us)

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## SOLICITATION FOR SEALED BIDS

The Green Lake County Highway Department located at 570 South Street, Green Lake, WI will on Thursday, September 19, 2019 at 9:00 am be receiving and opening bids for:

### CONSTRUCTION OF HIGHWAY STORAGE BUILDING LOCATION: N1906 STH 73 MANCHESTER, WI 53946

- Bid opening begins at 9:00 am; and must be submitted by the specified opening time.
- No facsimile or E-mail bids will be accepted
- Bids must be marked “**Highway Storage Building**” on the lower left corner of envelope.
- **Scope of Work:** Contractor will be responsible for the concrete foundation and construction of a 50’ x 80’ post framed steel sided structure mounted on 3’ concrete walls, insulated and steel lined. The work under contract shall consist of providing all work, labor, equipment and supervision to complete the building project, in accordance with project plans and specifications. Building materials will be furnished on site by Green Lake County.
- Completion date for total project, December 1, 2019.
- Any changes/modifications to the project requires approval in writing with the Highway Commissioner. There shall be nothing implied in the project that indicates future work for the awarded contractor beyond the scope of this project in accordance with the project plans and specifications.
- **Bidder must supply:** Name, telephone number and physical address of contractor; copy of the company’s Wisconsin State Contractors license number; copy of the company’s business license; and estimated time of completion.
- Successful bidder must be an equal opportunity employer that does not discriminate against any individual due to race, color, religion, gender, age or national origin in regards to employment, compensation, promotion and discipline.
- Project Plans and Specifications may be found on Green Lake County Website: [www.co.green-lake.wi.us](http://www.co.green-lake.wi.us) under the County News Board.
- Request for additional information can be directed to Green Lake County Highway Commission, 570 South Street, Green Lake, WI 54941. Telephone: 920-294-4060, Email: [glchwy@co.green-lake.wi.us](mailto:glchwy@co.green-lake.wi.us).

Any and all bids will be considered. The Highway Commission reserves the right to reject any and all bids and accept such bids as may be most advantageous to Green Lake County.

The selected bid will be subject to the attached Green Lake County Standard Terms and Conditions (Request for Bids, Proposals, and Contracts).

By Order of the Green Lake County Highway Commission.

Barry Mashuda  
Highway Commissioner



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## GREEN LAKE COUNTY STANDARD TERMS AND CONDITIONS (Request for Bids, Proposals, and Contracts)

- 1. APPLICABILITY.** The terms and conditions set forth in this document are adopted by Green Lake County ("County"), a municipal corporation in Wisconsin, and apply to Request for Proposals (RFP), bids, and all other transactions whereby Green Lake County acquires goods or services, or both. Any person or entity who submits bids or offers to Green Lake County is hereafter referred to as "Contractor".
- 2. ENTIRE AGREEMENT.** These Standard Terms and Conditions shall apply and be fully incorporated into any contract subject to these terms and conditions. Said written contracts, which will be required, with referenced parts and attachments shall constitute the entire agreement, and no other terms and conditions in any document, acceptance, or acknowledgement shall be effective of binding unless agreed to in writing by the county. Unless otherwise stated in an agreement, these Standard Terms and Conditions supersede any other terms and/or conditions applicable to this agreement.
- 3. SPECIFICATIONS.** The specifications herein are the minimum acceptable. When specific manufacturer and model numbers are used, they are to establish a design, type of construction, quality, functional capability or performance level that is desired. When alternates are proposed, they must be identified by manufacturer, stock number and/or such other information necessary to establish equivalency. Green Lake County shall be the sole judge of equivalency.
- 4. DEVIATIONS AND EXCEPTIONS.** Deviations and exceptions from terms, conditions or specifications shall be described fully on the contractor's letterhead, signed and attached to bid or proposal. In the absence of such statement, the bid shall be accepted as in strict compliance with all terms, conditions, and specifications and the contractor shall be held liable for any damages or injuries resulting from any deviation or exceptions.
- 5. QUALITY AND QUANTITY.** Unless otherwise noted in the request, all materials shall be first quality and no pre-owned, obsolete, discontinued, or defective materials shall be used unless the county agrees in writing. The quantities shown on the request are based on estimated needs and the county reserves the right to increase or decrease quantities to meet actual needs.
- 6. ACCEPTANCE AND REJECTION.** Green Lake County reserves the right to accept or reject any or all bids, including bidder's unwillingness to enter into a written contract and bidder's failure to comply with applicable bidding laws; to waive any minor technicality in any bid submitted; and to accept any part of a bid as deemed to be in the best interests of Green Lake County. Submission of a proposal or a bid constitutes the making of an offer to contract and gives the county an option valid for 60 days after the submission date to the county. Bids may be dated and time stamped by the appropriate department on or before the date and time that the bid is due. Actual receipt of the bid is necessary and timely deposit in the mail is not sufficient.
- 7. METHOD OF AWARD.** Unless otherwise allowed by law, awards will be made to the lowest responsible, responsive bidder who conforms to the applicable specifications, terms, and conditions that is in the best interests of Green Lake County. Either written or oral notice of award to the successful bidder will be considered sufficient notice of acceptance.
- 8. PAYMENTS.** Unless otherwise agreed, Green Lake County will pay properly submitted invoices within thirty (30) days of receipt of goods and services. Payment will not be made until the goods or services are delivered, installed (if required), and accepted as specified. Invoices presented for payment shall be submitted in accordance with the agreed upon terms.

9. **WAIVER OF DEFAULT.** In no event shall the making of any payment or acceptance of any service or product required by this agreement constitute or be construed as a waiver by Green Lake County of any breach of the covenants of the agreement or a waiver of any default and does not impair or prejudice the right to the recovery of damages or other remedies.
10. **GUARANTEED DELIVERY.** Failure to adhere to the delivery scheduled as specified or to promptly replace rejected materials shall render the contractor liable for all costs in excess of the contract price when alternate procurement is necessary. Excess costs shall include administrative costs.
11. **APPLICABLE LAW AND VENUE.** This agreement shall be governed by and construed in accordance with the laws of the State of Wisconsin and venue for any legal action between the parties shall be in Green Lake County. Contractor shall at all times and at their sole responsibility abide by any and all state and local statutes, ordinances, rules and regulations applicable to the provisions of goods or services to be provided, including, but not limited to, prevailing wage, payment and performance bonds, and bidder's certification.
12. **ASSIGNMENT/DELEGATION.** Neither party shall assign or delegate any rights, interests, or duties under this agreement unless all parties consent in writing.
13. **IDEMNIFICATION.** The Contractor shall indemnify and hold harmless the County, its officers, agents, employees and members, of and from any and all claims, demands, actions, causes of action, including costs and attorney's fees, arising out of or by reason of the execution or performance of the work or services provided for herein and further agrees to defend at its sole cost and expense any action or proceeding commenced for the purpose of asserting any claim of whatsoever character arising hereunder. In no event shall Contractor or any other party to this agreement including parties which may claim to have a direct or indirect reliance on Contractor's services, be liable to the other parties for incidental, indirect, or consequential damages arising from any cause unless caused by or resulting from Contractor's gross negligent conduct or willful misconduct. All indemnifications and limitations of liability will survive the termination of this agreement.
14. **INDEPENDENT CONTRACTOR.** The County retains the Contractor as an independent contractor upon the terms and conditions set forth in this Agreement. The Contractor shall determine the means, methods, personnel, and resources necessary to accomplish the objectives of the Agreement. The Contractor is not an employee of the County. The Contractor may utilize subcontracted services subject to limitations established in this Agreement and law. The Contractor shall furnish any and all supplies, equipment, and incidentals necessary for Contractor's performance under this Agreement. County and Contractor agree that Contractor shall not at any time or in any manner represent that Contractor or any of Contractor's agents or employees are in any manner employees of the County.
15. **INSURANCE.** The Contractor shall purchase and maintain insurance, including Worker's Compensation insurance, to protect itself from any and all claims deriving from the work or services provided under this Agreement. The Contractor shall purchase and maintain insurance to protect itself from claims for damages because of bodily injury, including personal injury, sickness or disease, or death of any of its employees or of any person other than its employees; and from claims for damages because of injury to or destruction of tangible property including loss or use resulting therefrom and from claims arising out of the performance of this Agreement by the Contractor.
16. **WARRANTY.** Unless specifically expressed otherwise in writing, goods and equipment purchased as a result of this request shall be warranted against defects by the contractor for one (1) year from the date of receipt. An equipment manufacturer's standard warranty shall apply as a minimum and must be honored by the contractor.
17. **CANCELLATION.** The county reserves the right to terminate any agreement due to non-appropriation of funds or failure of performance by the contractor. This provision shall not relieve the county of its responsibility to pay for services or goods provided or furnished to the county prior to the effective date of the termination.

18. **RECORDS.** The county intends to maintain an open and public process in the solicitation, submission, review, and approval of procurement activities. The county and the contractor shall comply with the Wisconsin Public Records Law, as it applies to all data, created, collected, received, stored, used, maintained, or disseminated to the county by the contractor. In the event contractor receives a request to release data, the contractor must immediately notify the county. If the contractor asserts any records of its business practice are protected from disclosure by law, the county will not release such records without first notifying the contractor of the request and affording the contractor an opportunity to challenge the requester's right to access such records. The entire burden of maintaining and defending such protection shall be upon the contractor. The contractor acknowledges and agrees that if the contractor shall fail to initiate the appropriate legal action in a timely manner to prevent disclosure or is unsuccessful upon such a request, the county shall be obligated to and will release the requested records.

19. **WAIVER.** Any waiver by either party of a breach of any provisions of this agreement shall not affect, in any respect, the validity of the remainder of this agreement.

20. **SEVERABILITY.** Any enforceable portions of this agreement shall be enforced even though other portions of the agreement may be deemed unenforceable.

BUILDING SPECIFICATIONS AND GENERAL NOTES

OWNER'S INFORMATION:

NAME: GREEN LAKE COUNTY  
 ADDRESS: 310 SOUTH ST.  
 CITY: GREEN LAKE  
 STATE: WI  
 ZIP: 53841

BUILDING DESIGN INFORMATION:

DESIGN CODE: 2018 WI COMM BLDG CODE  
 USE OF BUILDING: STORAGE  
 OCCUPANCY CLASSIFICATION: GROUP (S-1)  
 CONSTRUCTION TYPE: 2  
 RISK CATEGORY: 2  
 FIRE SUPPRESSION SYSTEM: NO

BUILDING AREA:

AREA OF WORK: 5200 SQFT  
 EXISTING BUILDING AREA: 0 SQFT  
 TOTAL BUILDING AREA: 5200 SQFT

ALLOWABLE AREA:

TABLE AREA: 8000 SQFT  
 PERMETER INCREASE: 0 SQFT  
 SPRINKLER INCREASE: 0 SQFT  
 TOTAL ALLOWABLE AREA: 8000 SQFT

BUILDING DESIGN LOADS:

SNOW	WIND	SEISMIC	TRUSS DEAD LOADS
(Pg) = 33.0 PSF (Ce) = 0.90 (Ie) = 1.00 (Ct) = 1.20 (Pj) = 28.50 PSF (Ca) = 0.94 (Pa) = 24.80 PSF (Lr) = 20.00 PSF	B.W.S. = 110 MPH EXPOSURE = C	- SEISMIC IMPORTANCE FACTOR: 1.00 - SPECTRA RESPONSE COEFFICIENT SDS: 0.062 - SPECTRA RESPONSE COEFFICIENT SDI: 0.063 - SITE CLASSIFICATION: C - SEISMIC DESIGN CATEGORY: A	DLTC = 4 PSF DLDC = 2 PSF

\*WITH UNBALANCED LOADS AS REQUIRED

MAJOR STRUCTURAL COMPONENTS:

<b>COLUMNS:</b>	- ALL LAMINATED COLUMNS SHALL BE MIDWEST MANUFACTURING'S, RIVET CLINCHED, WITH STEEL REINFORCED JOINTS UNLESS SPECIFIED OTHERWISE.
<b>TRUSSES:</b>	- DESIGNED IN ACCORDANCE TO 2018 WI COMM BLDG CODE TP APPROVED THIRD PARTY INSPECTED - MIDWEST MANUFACTURING TRUSS QUOTE NUMBER: P50NEW (SKU# 187-7999) - LATERAL BRACING IS REQUIRED. SEE TRUSS SPECIFICATION SHEETS FOR LATERAL BRACE LOCATIONS.
<b>STEEL PANEL:</b>	- MIDWEST MANUFACTURING PRO-RIB STEEL PANEL @142" MINIMUM THICKNESS BEFORE PAINTING @145" NOMINAL THICKNESS AFTER PAINTING G90 GALVANIZED COATING PLUS ZINC PHOSPHATE 40 YEAR PAINT WARRANTY STRUCTURAL STRENGTH ASTM-A853 GRADE 80 (FULL HARD STEEL) 82000 PSI MINIMUM TENSILE STRENGTH

PLEASE NOTE:

- DESIGNER LIABILITY LIMITED TO THE PREPARATION OF THE DRAWINGS WITH THE PARAMETER CONTRACTED AND ASCERTAINING TO CODE COMPLIANCE.
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. ADDITIONAL DATA SHALL BE RECEIVED FROM THE ENGINEER THROUGH WRITTEN SPECIFICATION ONLY. VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, & DIMENSIONS BEFORE PROCEEDING WITH ANY PORTION OF ANY WORK.
- NO CHANGES, MODIFICATIONS, OR DEVIATIONS SHALL BE MADE FROM THESE DRAWINGS OR SPECIFICATIONS WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE ENGINEER.
- WHERE LACK OF INFORMATION, OR ANY DISCREPANCY SHOULD APPEAR IN THE DRAWINGS OR SPECIFICATIONS, REQUEST WRITTEN INTERPRETATION FROM THE ENGINEER BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
- IMPORTANT! THIS BUILDING IS DESIGNED USING THE ROOF AS A DIAPHRAGM (DEEP TRUSS BEAM) TO TRANSFER SIDEWALL AND ROOF WIND LOADS TO THE ENDWALL SHEAR WALLS. STEEL PANELS ARE AN INTEGRAL PART OF THE BUILDING STRUCTURE AND ANY FUTURE FIELD MODIFICATIONS MADE MAY BE DETRIMENTAL TO THE BUILDING'S STRUCTURAL PERFORMANCE.

SOIL:

- SOIL BASED ON ASABE EP486.2 (TABLE 1)
- PRESUMPTIVE SOIL TYPE: SILTY OR CLAYEY FINE TO COARSE SAND (CLASS OF MATERIAL: SW, SP, SM, AND SC)
- SOIL CONSISTENCY: MEDIUM TO DENSE
- A SOIL BEARING VALUE ASSUMED AT A MINIMUM 2000 PSF
- ALL FOOTINGS AND SLAB TO BEAR ON UNDISTURBED INORGANIC SOIL OR SOIL COMPACTED TO 85% MODIFIED PROCTOR DENSITY.
- ALL SOILS BELOW CONCRETE SHALL BE A NON-FROST SUSCEPTIBLE SOIL AS REQUIRED IN ASCE 32.
- OWNER RESPONSIBLE FOR VERIFYING SITE SOIL CONDITIONS. ALL SOILS TO MEET OR EXCEED REQUIREMENTS AS REFERENCED IN THE GENERAL NOTES. CONSULT GEOTECHNICAL ENGINEER IF NECESSARY.
- FOOTINGS TO BE ABOVE THE WATER TABLE

CONCRETE:

- CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- ALL REBAR SHALL MEET A815 GRADE 40 OR BETTER.

LUMBER:

- ALL WOOD CONSTRUCTION SHALL BE OF MATERIALS SHOWN AND WORKMANSHIP SHALL BE IN ACCORDANCE TO THE NATIONAL FOREST PRODUCTS ASSOCIATION SPECIFICATIONS FOR WOOD CONSTRUCTION.
- ALL LUMBER IN CONTACT WITH CONCRETE OR SOIL ABOVE GRADE SHALL BE TREATED IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE ANPA U1 UC3B REQUIREMENTS OR BETTER.
- ALL LUMBER BELOW GRADE SHALL BE TREATED IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE ANPA U1 UC48 REQUIREMENTS OR BETTER.

STEEL TRIMS:

- COLOR MATCHED STEEL TRIMS  
 CERAM-A-STAR 1030 PAINT SYSTEM

FRAMING FASTENERS:

- GALVANIZED THREADED HARDENED STEEL RINSHANK NAILS, UNLESS NOTED OTHERWISE.

PANEL FASTENERS:

- COLOR MATCHED GALVANIZED WOODGRIP SCREWS, #10 DIAMETER, 1/4" HEX HEAD.

HANDLING AND STORAGE:

- ALL STEEL PANELS AND TRUSS PRODUCTS SHOULD BE HANDLED AND STORED PER MANUFACTURER SPECIFICATIONS.

GRADE:

- ALL FINISHED GRADES TO SLOPE AWAY FROM BUILDING AT A MIN. 5% GRADE FOR PROPER DRAINAGE (2% FOR IMPERVIOUS) (IBC 1804)

CONSTRUCTION BRACING:

- TEMPORARY BRACING DURING CONSTRUCTION SHALL BE CONTRACTORS' RESPONSIBILITY. REFER TO BC91-81 AND/OR B10 SUMMARY SHEET "GUIDE FOR HANDLING, INSTALLING, RESTRAINING AND BRACING OF TRUSSES", BY THE TRUSS PLATE INSTITUTE (TPI) AND THE WOOD TRUSS COUNCIL OF AMERICA (WTCA).

HVAC:

- HEATING, VENTING, AND AIR CONDITIONING REQUIREMENTS WERE NOT ADDRESSED ON THE DRAWING AND SHOULD BE APPROVED BY LOCAL OFFICIALS.

PLUMBING:

- PLUMBING REQUIREMENTS WERE NOT ADDRESSED ON THE DRAWING AND SHOULD BE INSTALLED IN ACCORDANCE WITH REQUIRED BUILDING CODES.

ELECTRICAL:

- ELECTRICAL REQUIREMENTS WERE NOT ADDRESSED ON THE DRAWING AND SHOULD BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ANY LOCAL CODES.

EXIT LIGHTS:

- EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES, TO ENSURE CONTINUED ILLUMINATION FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS. THE EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM PROVIDED FROM STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH THE IEC ELECTRICAL CODE.

ACCESSIBLE PARKING:

- SHALL COMPLY WITH ICC/ANSI A117.1 CHAPTER 5.

ACCESSIBLE ROUTE:

- SHALL COMPLY WITH ICC/ANSI A117.1 CHAPTER 4.

ACCESSIBLE DOOR HARDWARE:

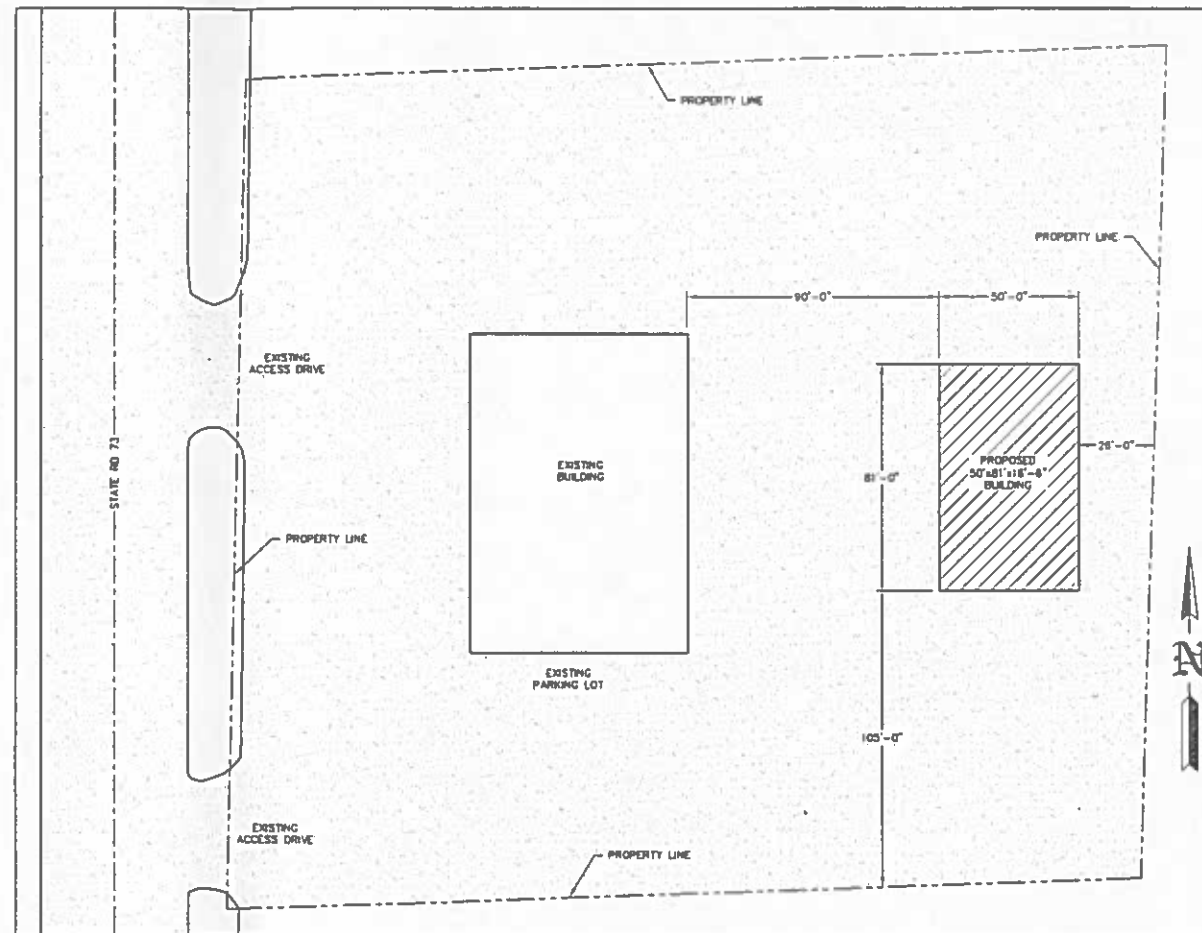
- SHALL COMPLY WITH ICC/ANSI A117.1 CHAPTER 3 SECTION 309. HANDLES, PULLS, LATCHES, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT CRASPING, TIGHT FINGERING, OR TWISTING OF THE WRIST TO OPERATE. LEVER OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPENED, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" (1220 MM) ABOVE FINISHED FLOOR THE THRESHOLD OF SERVICE DOORS MAY NOT EXCEED 1/2" ON EITHER SIDE OF THE DOOR WITH 1:2 SLOPE IF GREATER THAN 1/4".

FIRE EXTINGUISHERS:

- SHALL BE INSTALLED, PROVIDED, AND MAINTAINED AS SPECIFIED IN NFPA NO. 10 (BY OTHERS).

# SHOP II STORAGE BUILDING

## MANCHESTER, WI



SITE PLAN  
 SCALE: 1"=30'

BUILDING INFORMATION	
NAME:	SHOP II STORAGE BUILDING
ADDRESS:	1100 STATE RD 73
CITY:	MANCHESTER
STATE:	WI
ZIP:	53848
COUNTY:	GREEN LAKE

SHEET INDEX	
SHEET #	SHEET DESCRIPTION
S1	GENERAL NOTES AND SITE PLAN
S2	ELEVATIONS
S3	FOUNDATION PLAN
S4	FLOOR PLAN AND COLUMN & FOOTING SCHEDULE
S5	ROOF FRAMING PLAN AND TRUSS COLUMN SCHEDULE
S6	SIDEWALL SECTION AND SECTION DETAILS
S7	ENDWALL SECTION AND SECTION DETAILS
S8	OVERHEAD DOOR DETAILS
S9	STEEL APPLICATION DETAILS

NOTE: OWNER/CONTRACTOR SHALL VERIFY ALL SETBACKS WITH LOCAL BUILDING OFFICIAL AT TIME OF CONSTRUCTION.

NOTE: PARKING LOT REQUIRES HANDICAP ACCESSIBLE PARKING STALLS. (ANSI 502) FOR NUMBER OF STALLS REQUIRED. SEE WISCONSIN CODE SECTION 1108.

NOTE: CURB RAMPS COMPLYING W/ ICC/ANSI A117.1 ARE REQUIRED WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB.

NOTE: THE OWNER SHALL PROVIDE AN ALL WEATHER HARD SURFACE AREA 30 FEET OR MORE IN WIDTH EXTENDING AT LEAST 50% OF THE LENGTH OF ONE SIDE OF THE PROPOSED STRUCTURE AND MUST BE ACCESSIBLE TO FIRE FIGHTING EQUIPMENT.

NOTE: THE OWNER SHALL PROVIDE DESIGNATED SPACE WITHIN OR ADJACENT TO STRUCTURE FOR THE COLLECTION OF RECYCLABLE MATERIALS AS PER SPS 382.0400(2).

NOTE: IF MORE THAN ONE ACRE OF LAND IS DISTURBED BY BUILDING ERECTION AND/OR PARKING AND ACCESS DRIVE SURFACE, THEN THE OWNER/CONTRACTOR SHALL SUBMIT A WATER RESOURCES APPLICATION FOR PROJECT PERMITS (WRAPP) AS PER NR 218.



Digitally signed by Ryan John Reader  
 Date: 2019.08.05.09:27:24 -0500



ENGINEERING SERVICES

8001 HANCOCK BL. SUITE 200, MANCHESTER, WI 53848

FOR QUESTIONS PLEASE CONTACT BUILDING DESIGNER AT THE FOLLOWING:  
 ENGINEERING@EMWESTMANUFACTURING.COM

PROJECT TITLE:  
**SHOP II STORAGE BUILDING**

MANCHESTER, WI

PROF. ENGINEER: RYAN READER

PLAN DESIGNER: RYAN READER

DRAWN BY: JMS

DATE: 8/2/2019

SCALE: AS NOTED

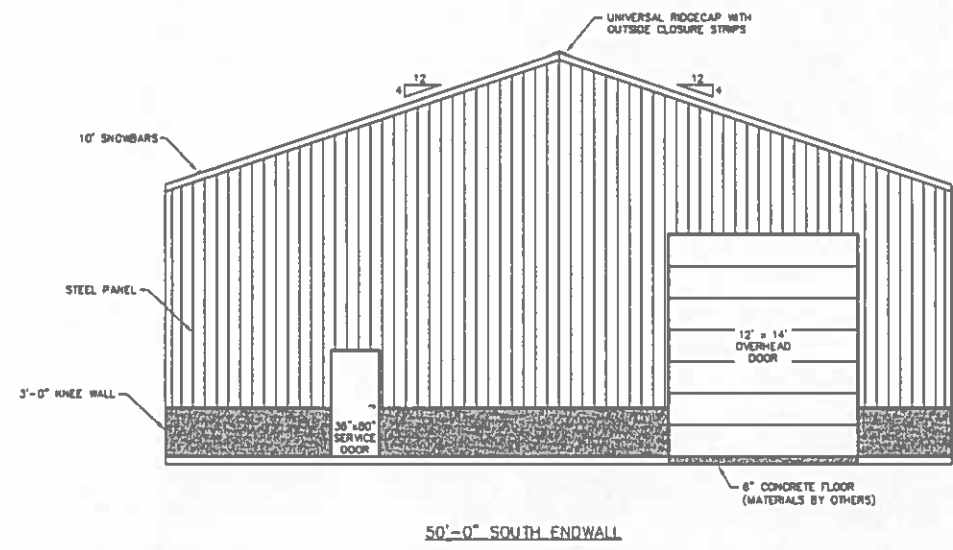
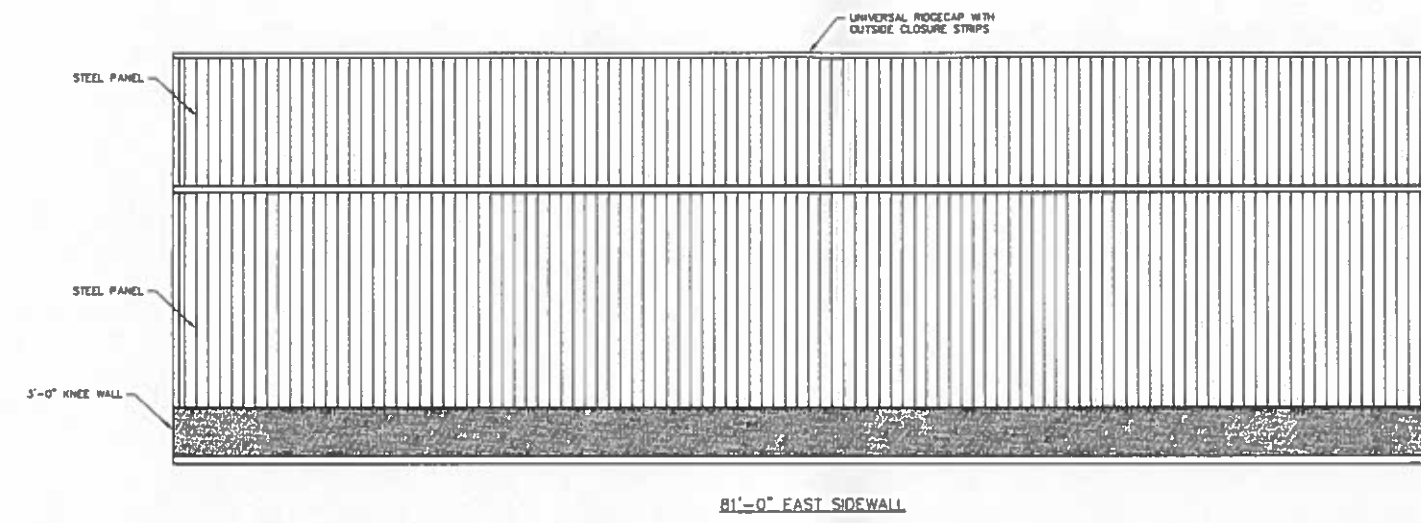
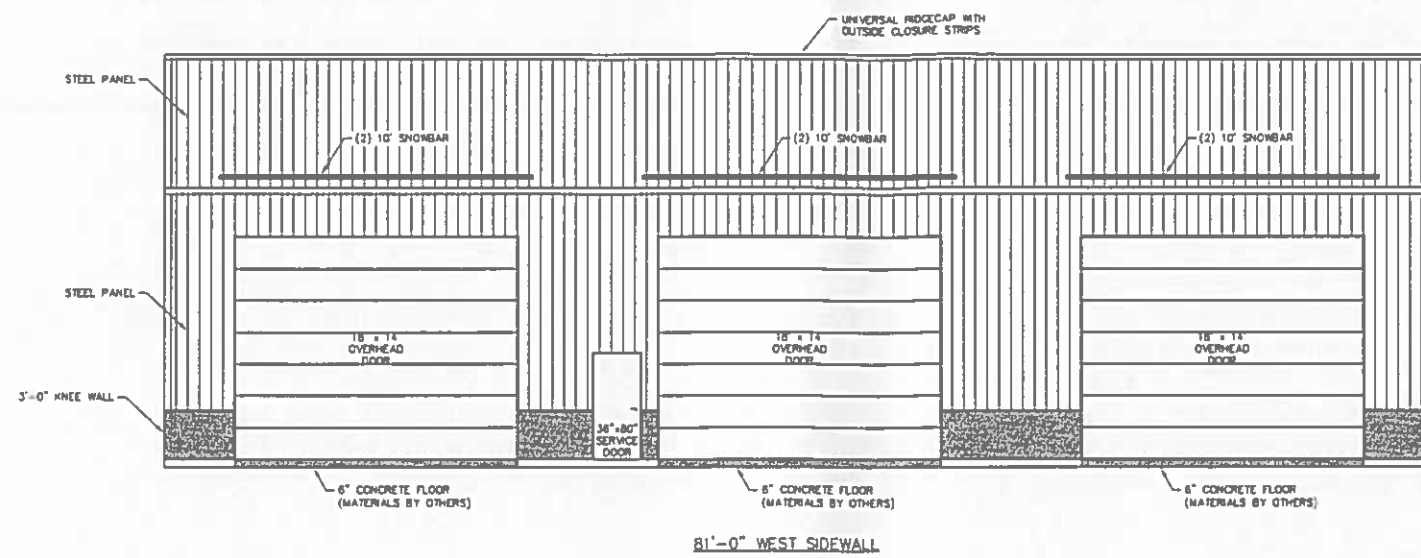
REVISIONS

NO.	DATE	DESCRIPTION	BY
1			
2			

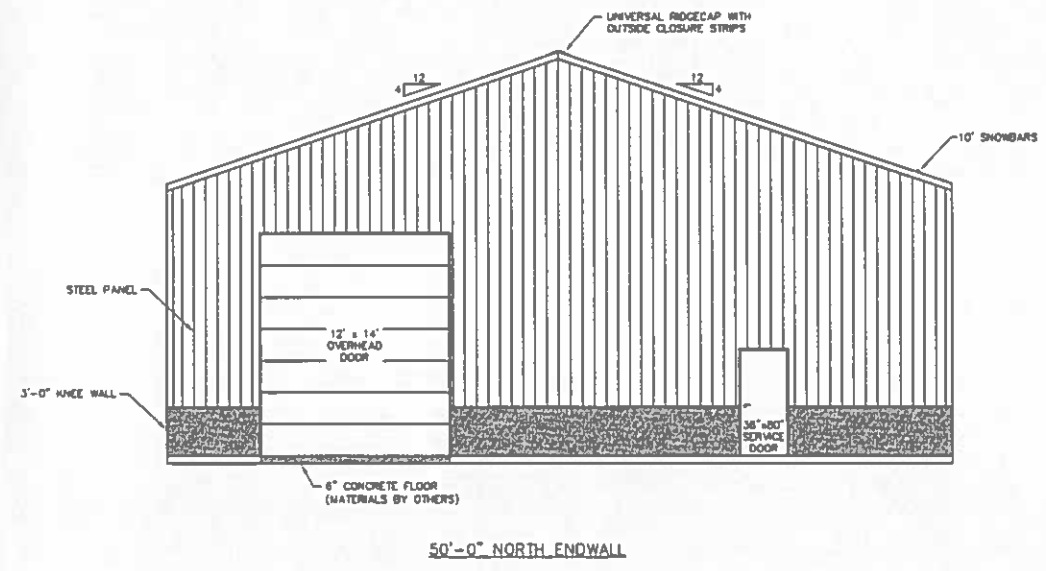
SHEET TITLE:  
 GENERAL NOTES AND SITE PLAN

FILE NAME: S16419W

SHEET NO.  
**S1**



ELEVATIONS  
SCALE: 3/16"=1'-0"



**MM**  
ENGINEERING SERVICES  
2001 SOUTH 20th STREET, SUITE 200, MANCHESTER, NH 03103-1000

FOR QUESTIONS PLEASE CONTACT BUILDING DESIGNER AT THE FOLLOWING:  
ENGINEERING@MMWESTMANUFACTURING.COM

PROJECT TITLE:  
**SHOP II STORAGE BUILDING**

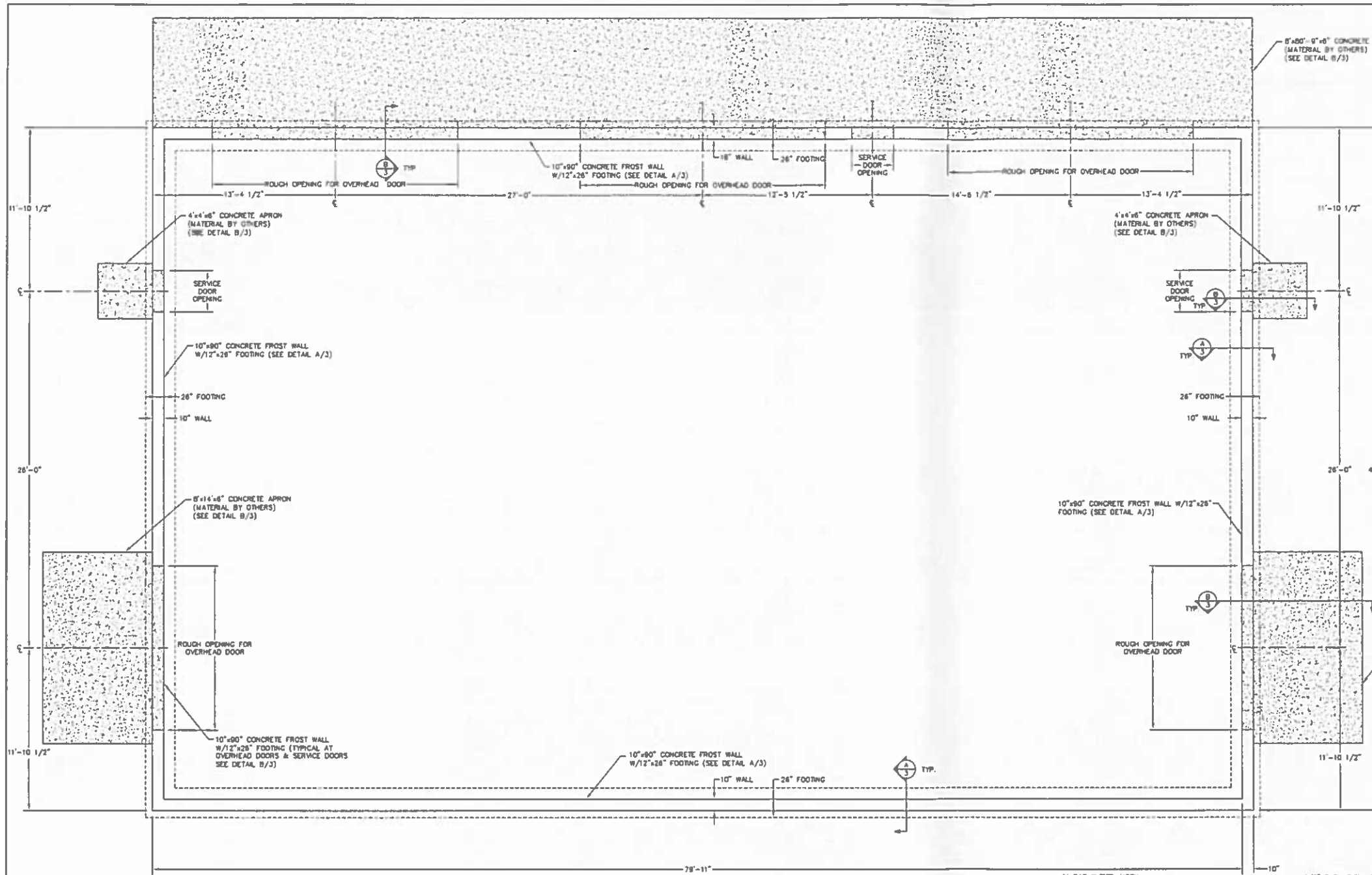
MANCHESTER, NH

PROF. ENGINEER: RYAN READER  
PLAN DESIGNER: RYAN READER  
DRAWN BY: JMS  
DATE: 8/2/2019  
SCALE: AS NOTED

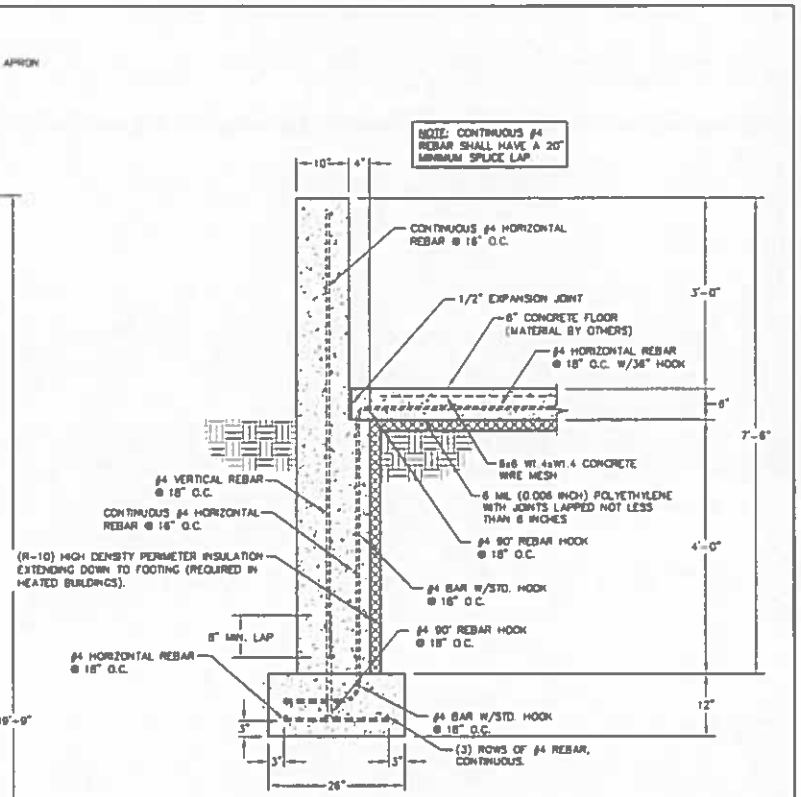
REVISIONS		
NO.	DATE	DESCRIPTION
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SHEET TITLE:  
ELEVATIONS

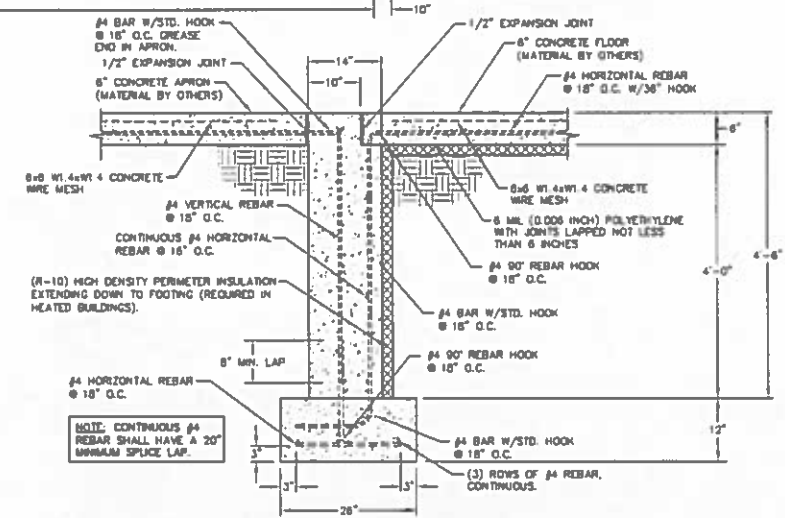
FILE NAME: S16419W  
SHEET NO.  
**S2**



**FOUNDATION PLAN**  
SCALE: 1/4"=1'-0"



**FROST WALL DETAIL**  
SCALE: 3/4"=1'-0"



**FROST WALL @ OVERHEAD DOORS AND SERVICE DOORS**  
SCALE: 3/4"=1'-0"

**MM**  
**ENGINEERING SERVICES**  
800.545.88. See Client W-6490 (10) 475-000

FOR QUESTIONS PLEASE CONTACT BUILDING DESIGNER AT THE FOLLOWING: ENGINEERING@MMENRSTH.MANUFACTURING.COM

PROJECT TITLE:  
**SHOP II STORAGE BUILDING**

MANCHESTER, WI

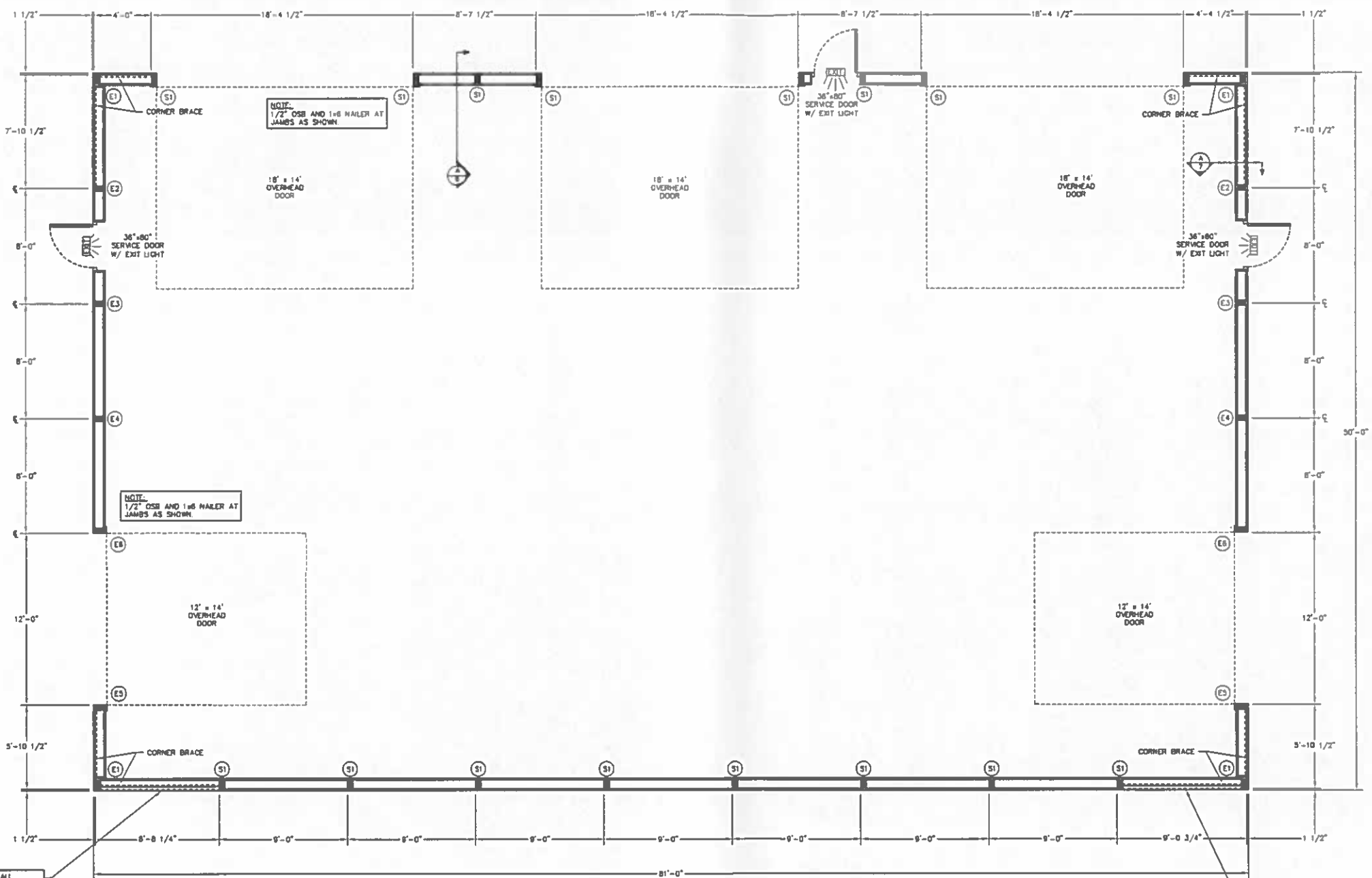
PROF. ENGINEER: RYAN READER  
PLAN DESIGNER: RYAN READER  
DRAWN BY: JMS  
DATE: 8/2/2019  
SCALE: AS NOTED

REVISIONS

NO	DATE	DESCRIPTION	BY
1			
2			

SHEET TITLE:  
**FOUNDATION PLAN**

FILE NAME: S16419W  
SHEET NO:  
**S3**



FLOOR PLAN  
SCALE: 1/4"=1'-0"

NOTE: 8' CORNER BAYS ON EAST SIDEWALL REQUIRE 2x4 BOOKSHELF CHITS @ 20" O.C. SECURED TO 2x6 FLAT GRIS W/104 T.H.S. NAILS @ 12" O.C.

NOTE: 8' CORNER BAYS ON EAST SIDEWALL REQUIRE 2x4 BOOKSHELF CHITS @ 20" O.C. SECURED TO 2x6 FLAT GRIS W/104 T.H.S. NAILS @ 12" O.C.

PRO-ANCHOR (FA) BRACKET DESIGNATION

PA80 = 8" UNIVERSAL BRACKET
PA80 = 8" UNIVERSAL BRACKET
PA48 = 4x8 POST BRACKET
PA88 = 8x8 POST BRACKET
PA83 = 3-PLY 2x8 COLUMN BRACKET
PA84 = 4-PLY 2x8 COLUMN BRACKET
PA83 = 3-PLY 2x8 COLUMN BRACKET
PA84 = 4-PLY 2x8 COLUMN BRACKET

NOTE: CORNER BRACE SHALL BE A 2x8 #2 SPF EXTENDING FROM THE GRADEBOARD AT THE INTERIOR COLUMN TO THE TOP OF THE CORNER COLUMN. CORNER BRACE SHALL BE SECURED TO THE GRADEBOARD W/3-10# THREADED HARDENED STEEL NAILS AND TO THE SOFFIT W/104 T.H.S. NAILS @ 12" O.C. SECURED TO THE SOFFIT W/104 T.H.S. NAILS @ 12" O.C. EACH BRACE TO GIRT LOCATION SHALL BE SECURED W/3-10# THREADED HARDENED STEEL NAIL.

COLUMN LOCATION	COLUMN DESCRIPTION	EMBEDMENT	NUMBER OF COLUMNS	FOOTING DESCRIPTION	BRACKET DESCRIPTION	BRACKET(S) PER COLUMN	BRACKET TO COLUMN	BRACKET TO CONCRETE (PER COLUMN)
S1	3-PLY (18") 2x8 2400F MSR SYP LAMINATED COLUMN	-	16	10" CONCRETE FROST WALL (SEE DETAIL A/3)	PA83	1	(2)-1/2"x8" BOLTS, (8)-1/4"x3" WOOD SCREWS	(2)-5/8"x8" WEDGE BOLTS, 5 3/4" MIN. EMBEDMENT
E1	3-PLY (18") 2x8 2400F MSR SYP LAMINATED COLUMN	-	4	10" CONCRETE FROST WALL (SEE DETAIL A/3)	PA80	1	(2)-1/2"x4" LAG SCREWS, (4)-1/4"x3" WOOD SCREWS	(1)-5/8"x8" WEDGE BOLT, 5 3/4" MIN. EMBEDMENT
E2	3-PLY (18") 2x8 2400F MSR SYP LAMINATED COLUMN	-	2	10" CONCRETE FROST WALL (SEE DETAIL A/3)	PA83	1	(2)-1/2"x8" BOLTS, (8)-1/4"x3" WOOD SCREWS	(2)-5/8"x8" WEDGE BOLTS, 5 3/4" MIN. EMBEDMENT
E3	3-PLY (24") 2x8 2400F MSR SYP LAMINATED COLUMN	-	2	10" CONCRETE FROST WALL (SEE DETAIL A/3)	PA83	1	(2)-1/2"x8" BOLTS, (8)-1/4"x3" WOOD SCREWS	(2)-5/8"x8" WEDGE BOLTS, 5 3/4" MIN. EMBEDMENT
E4	3-PLY (18") 2x8 2400F MSR SYP LAMINATED COLUMN	-	2	10" CONCRETE FROST WALL (SEE DETAIL A/3)	PA83	1	(2)-1/2"x8" BOLTS, (8)-1/4"x3" WOOD SCREWS	(2)-5/8"x8" WEDGE BOLTS, 5 3/4" MIN. EMBEDMENT
E5	3-PLY (18") 2x8 2400F MSR SYP LAMINATED COLUMN	-	2	10" CONCRETE FROST WALL (SEE DETAIL A/3)	PA80	1	(2)-1/2"x4" LAG SCREWS, (4)-1/4"x3" WOOD SCREWS	(1)-5/8"x8" WEDGE BOLT, 5 3/4" MIN. EMBEDMENT
E6	3-PLY (24") 2x8 2400F MSR SYP LAMINATED COLUMN	-	2	10" CONCRETE FROST WALL (SEE DETAIL A/3)	PA80	1	(2)-1/2"x4" LAG SCREWS, (4)-1/4"x3" WOOD SCREWS	(1)-5/8"x8" WEDGE BOLT, 5 3/4" MIN. EMBEDMENT

ENGINEERING SERVICES  
MANCHESTER, WI

FOR QUESTIONS PLEASE CONTACT BUILDING DESIGNER AT THE FOLLOWING: ENGINEERING@WESTMANUFACTURING.COM

PROJECT TITLE:  
**SHOP II STORAGE BUILDING**

MANCHESTER, WI

PROF. ENGINEER: RYAN READER  
PLAN DESIGNER: RYAN READER  
DRAWN BY: JMS  
DATE: 8/2/2019  
SCALE: AS NOTED

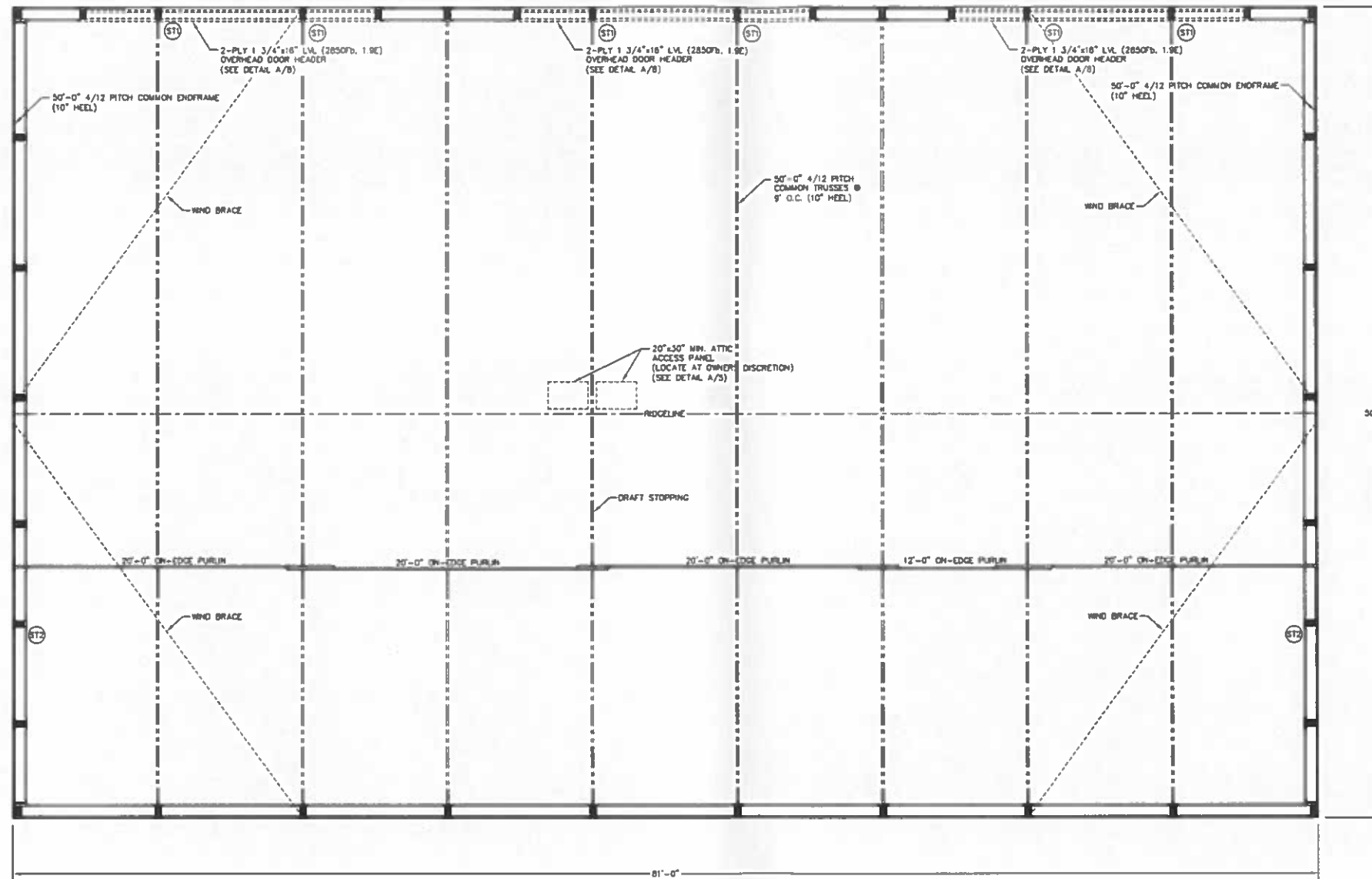
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NO.	DATE	DESCRIPTION	BY
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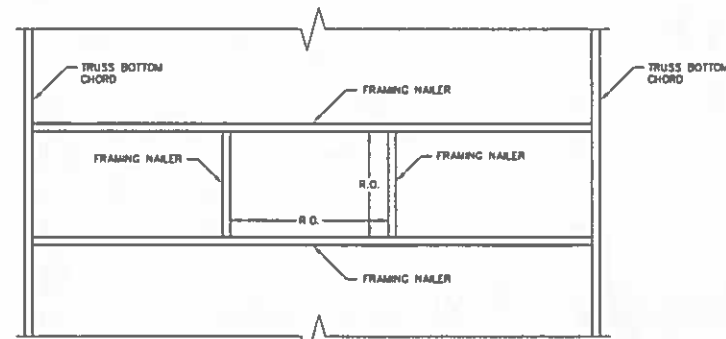
SHEET TITLE:  
FLOOR PLAN AND COLUMN & FOOTING SCHEDULE

FILE NAME: S16419W  
SHEET NO. **S4**





**ROOF FRAMING PLAN**  
SCALE: 1/4"=1'-0"



**ATTIC ACCESS FRAMING DETAIL**  
SCALE: 3/4"=1'-0"

NOTE: ATTIC AREA SHALL BE COMPARTMENTALIZED INTO AREAS NOT GREATER THAN 3000 SQ. FT. BY FIRE STOPPING AS SPECIFIED IN IBC 718.4.3. EVERY ATTIC COMPARTMENT SHALL BE PROVIDED WITH A 20'x30" ACCESS PANEL FROM LOWER AREA OR ACCESS PANELS IN COMPARTMENT WALLS SHALL BE PROVIDED WITH SELF-CLOSING DEVICES. (INCLUDES OVERHANGS)

STUB COLUMN SCHEDULE		
COLUMN LOCATION	COLUMN DESCRIPTION	NUMBER OF COLUMNS
ST1	3-PLY 2x8-(4) #2 SPF STUB COLUMN (CUT TO FIT)	8
ST2	3-PLY 2x8-(8) #2 SPF STUB COLUMN (CUT TO FIT)	2

NOTE:  
2x4 2100F USR SPF ROOF PURLINS (ON-EDGE). THE FIRST (3) ROWS OF PURLINS AFTER THE PEAK PURLIN SHALL BE AT 22" O.C. WITH THE BALANCE AT 24" O.C. ROOF PURLINS ARE TO BE SECURED TO THE TRUSS W/(1)-60# THREADED HARDENED STEEL NAIL AT EACH PURLIN TO TRUSS LOCATION. FOR PURLIN OVERLAP SEE DETAIL D/6

NOTE:  
WIND BRACE SHALL BE A 2x4 #2 SPF PLACED ON THE UNDERSIDE OF THE ROOF PURLINS. WIND BRACE SHALL BE SECURED W/(2)-30# THREADED HARDENED STEEL NAILS AT EACH END AND W/(1)-10# THREADED HARDENED STEEL NAIL AT EACH BRACE TO PURLIN LOCATION.

NOTE:  
LATERAL BRACING IS REQUIRED. SEE TRUSS SPECIFICATION SHEET(S) FOR LATERAL BRACE LOCATIONS.

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PROJECT TITLE:  
**SHOP II STORAGE BUILDING**

MANCHESTER, WI

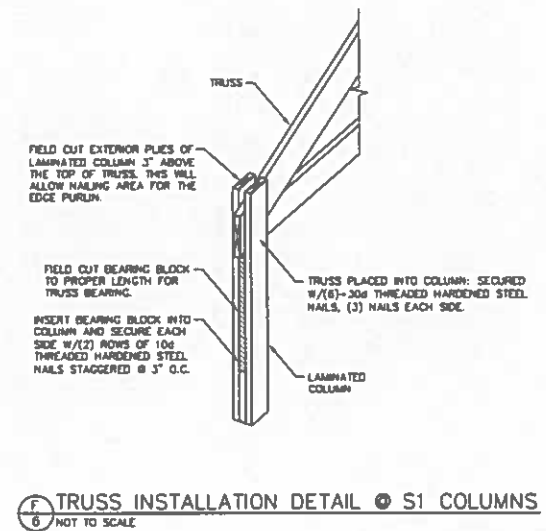
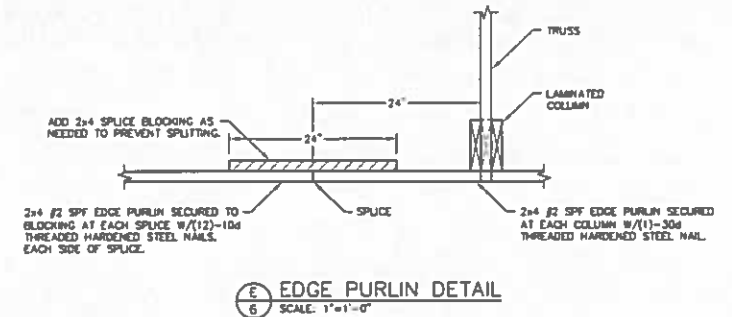
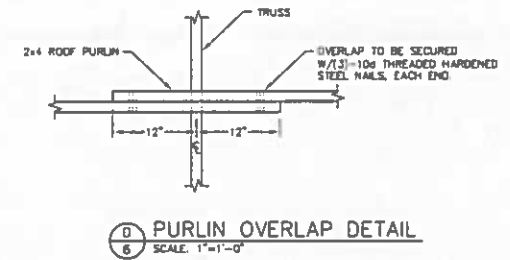
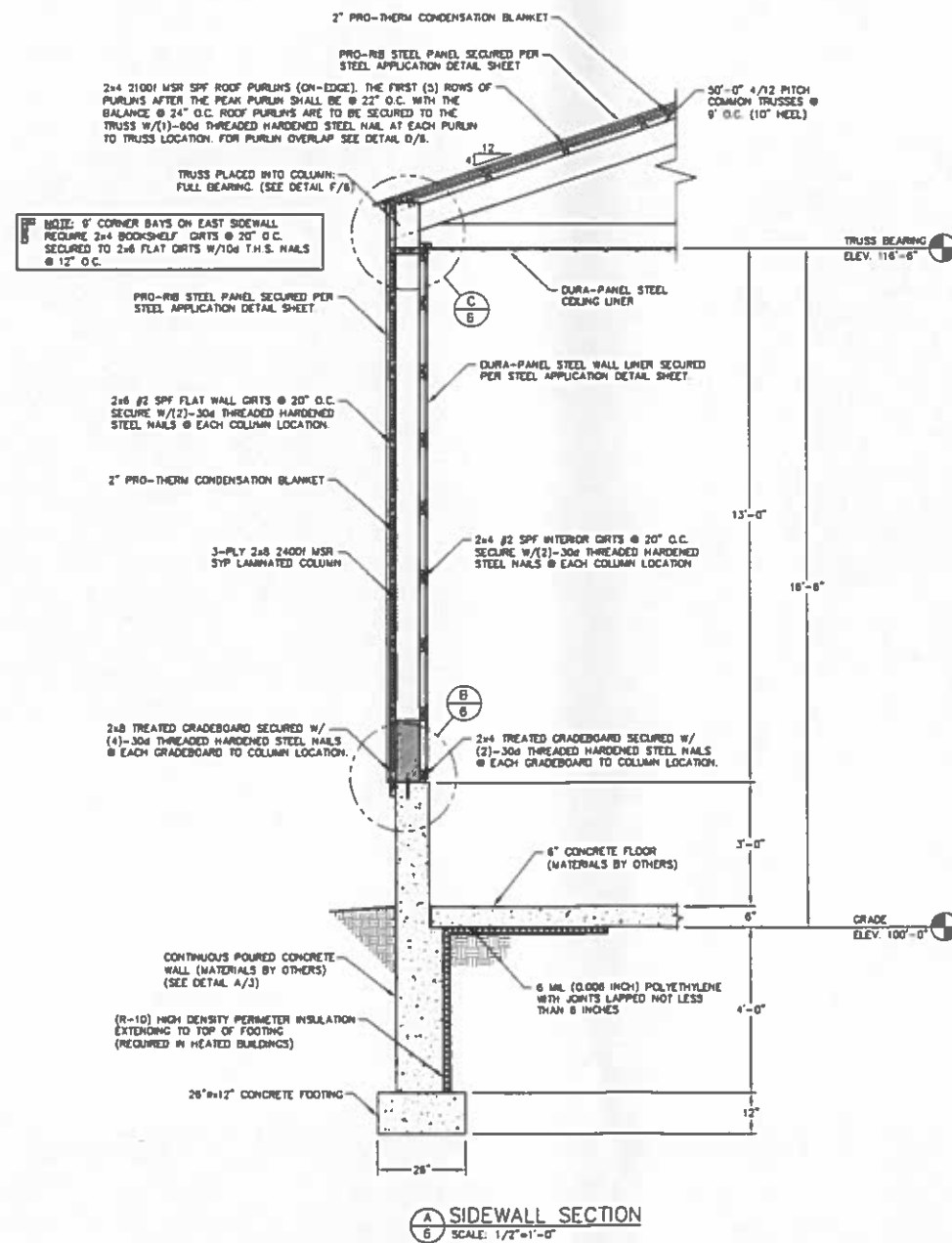
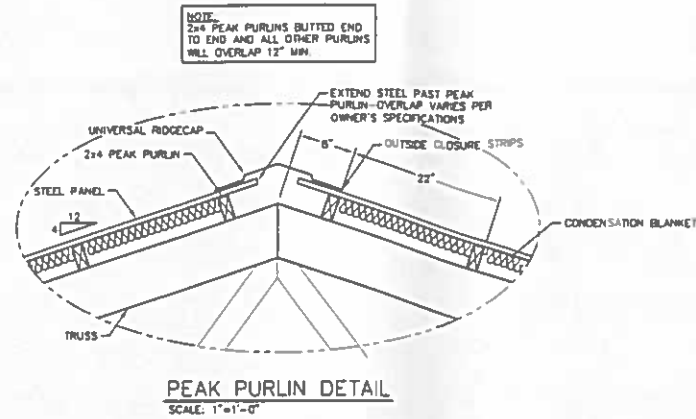
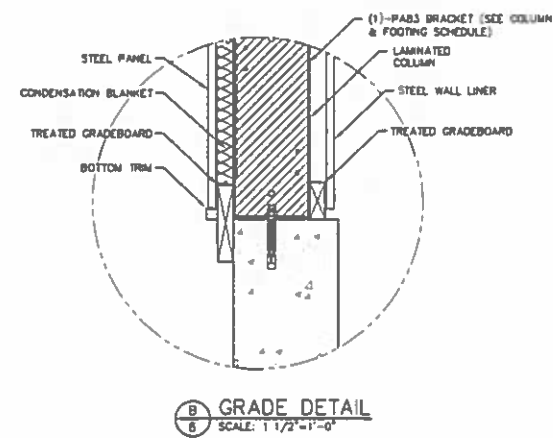
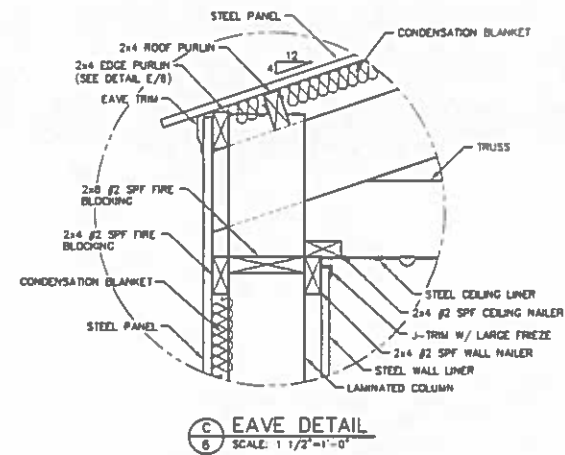
PROF. ENGINEER: RYAN READER  
PLAN DESIGNER: RYAN READER  
DRAWN BY: JMS  
DATE: 8/2/2019  
SCALE: AS NOTED

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SHEET TITLE:  
ROOF FRAMING PLAN AND STUB COLUMN SCHEDULE

FILE NAME: S16419W  
SHEET NO.  
**S5**



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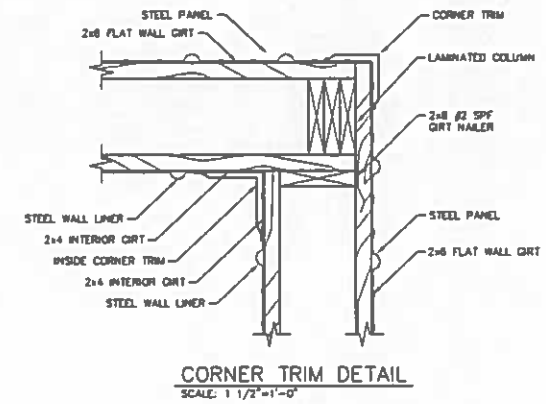
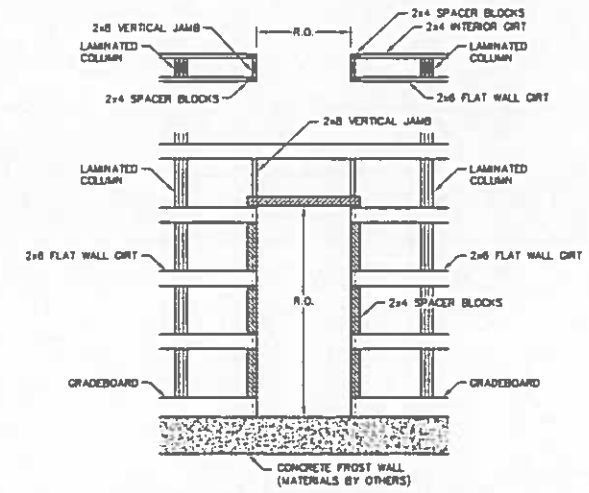
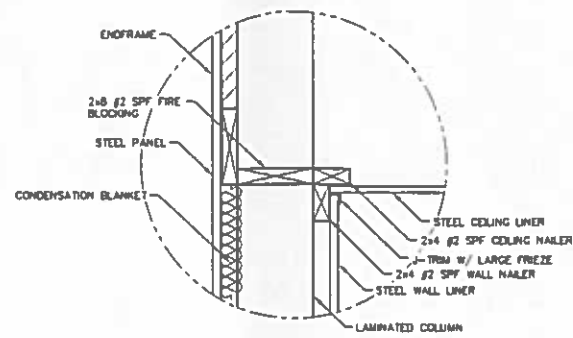
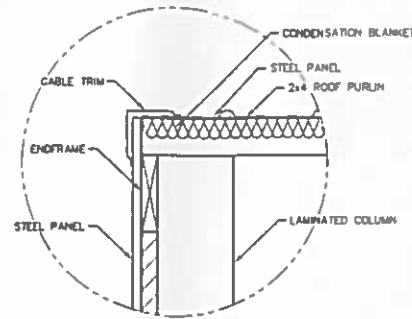
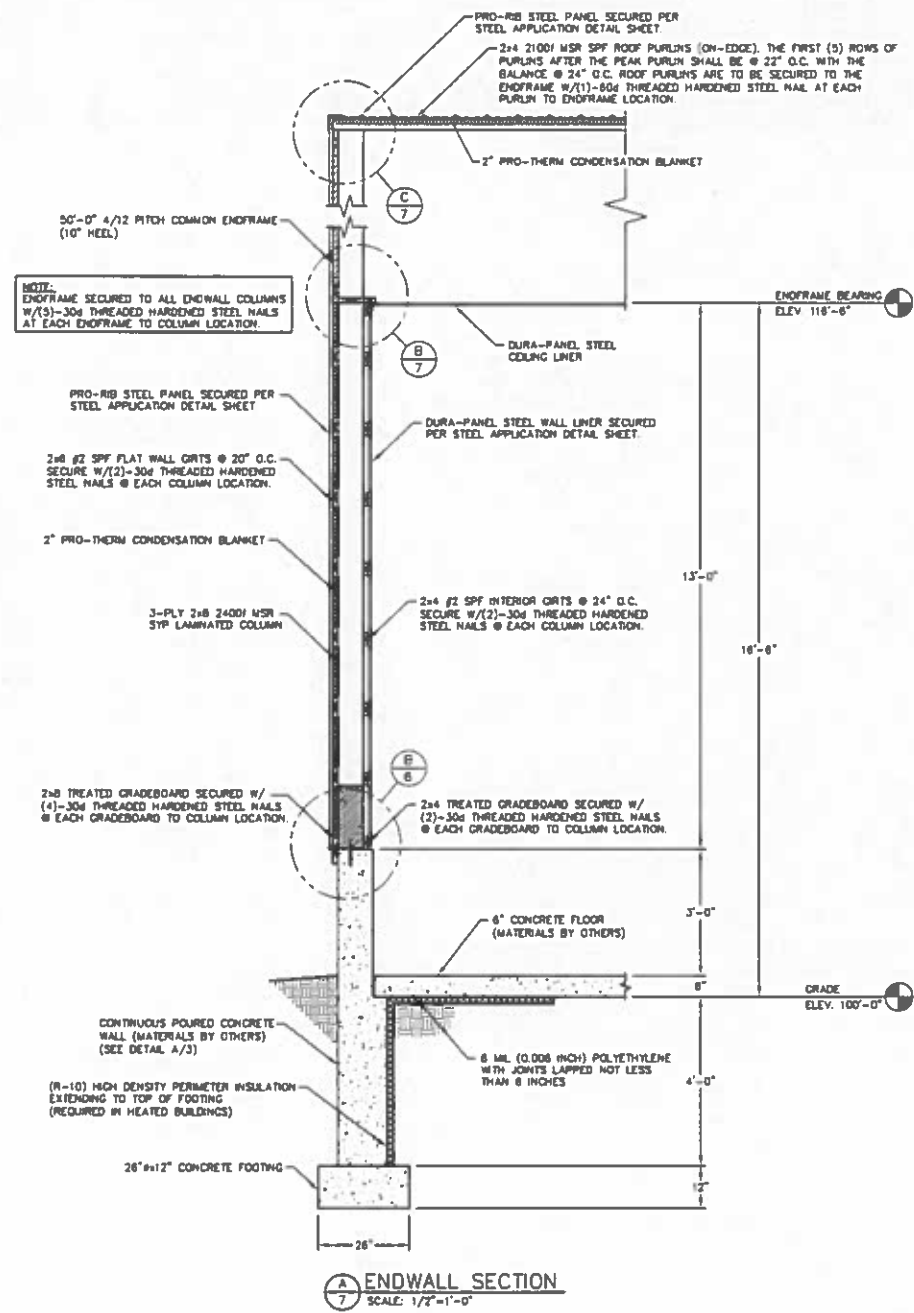
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**SHOP II STORAGE BUILDING**

MANCHESTER, WI  
PROF. ENGINEER: RYAN READER  
PLAN DESIGNER: RYAN READER  
DRAWN BY: JMS  
DATE: 8/2/2019  
SCALE: AS NOTED

REVISIONS		
NO	DATE	DESCRIPTION
1		
2		

SHEET TITLE:  
SIDEWALL SECTION AND SECTION DETAILS

FILE NAME: S16419W  
SHEET NO:  
**S6**



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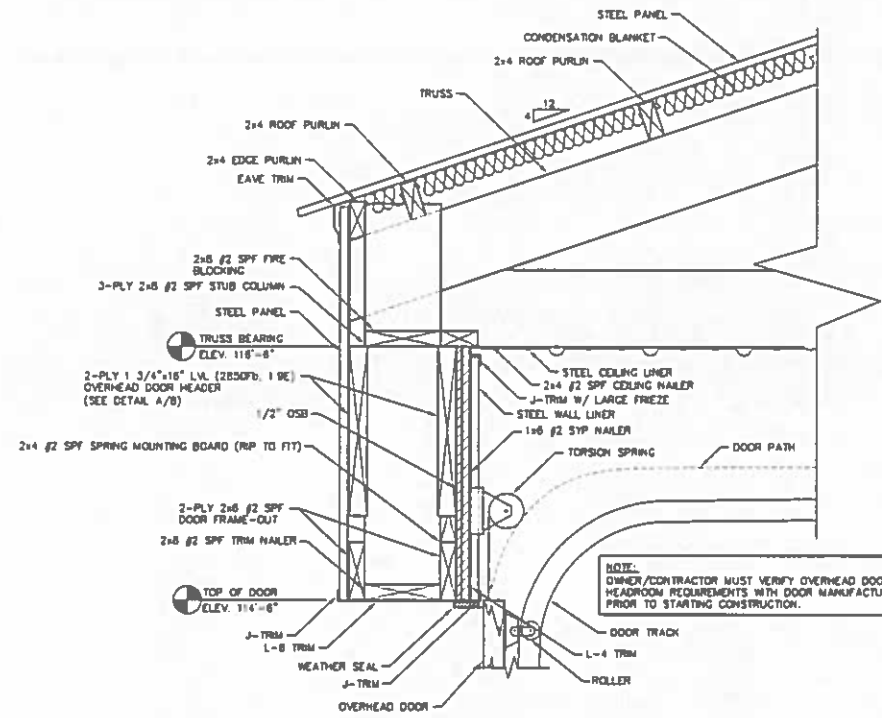
PROJECT TITLE:  
**SHOP II STORAGE BUILDING**

MANCHESTER, WI  
PROF. ENGINEER: RYAN READER  
PLAN DESIGNER: RYAN READER  
DRAWN BY: JMS  
DATE: 8/2/2019  
SCALE: AS NOTED

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NO.	DATE	DESCRIPTION
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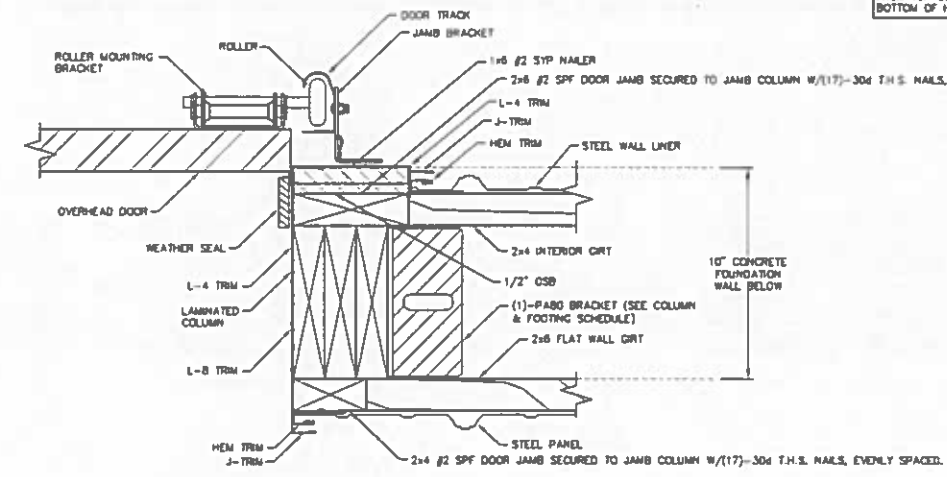
SHEET TITLE:  
ENDWALL SECTION AND SECTION DETAILS

FILE NAME: S16419W  
SHEET NO.: **S7**



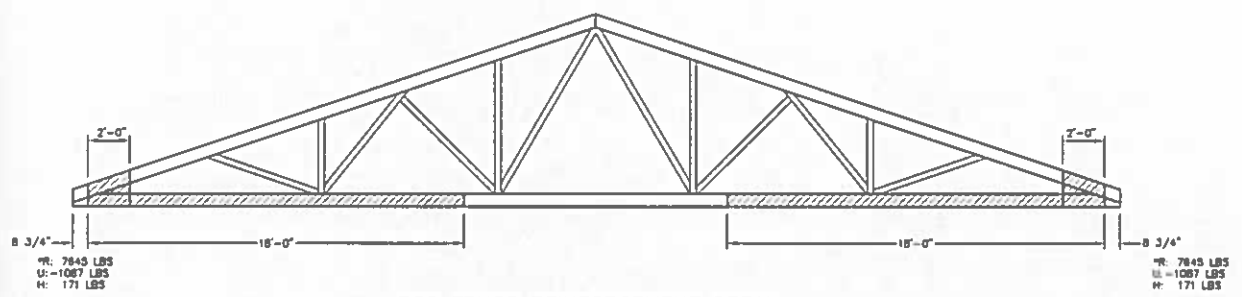
**SIDEWALL OVERHEAD DOOR FRAME-OUT DETAIL**  
SCALE: 1 1/2"=1'-0"

NOTE:  
1/2" OSB = 3 1/2" FURRING STRIPS @ JAMBS.



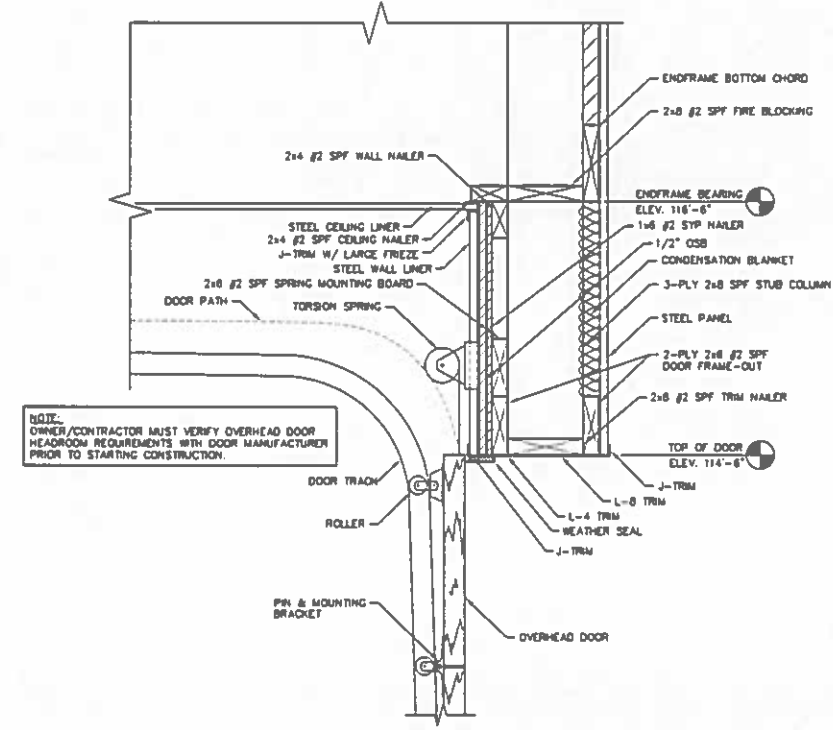
**OVERHEAD DOOR JAMB DETAIL**  
SCALE: 3"=1'-0"

NOTE: DOOR JAMBS TO EXTEND FROM TOP OF FROST WALL TO BOTTOM OF HEADER.

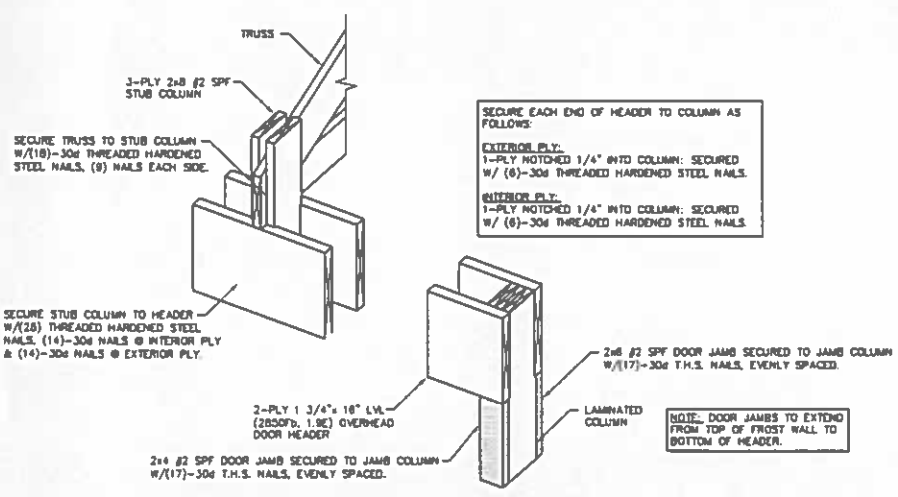


**P50 TRUSS REINFORCEMENT DETAIL**  
SCALE: 1/4"=1'-0"

- ATTACH (2) 3/4" PLYWOOD TO TRUSS WITH CONSTRUCTION GRADE WATERPROOF GLUE (PL400 OR BETTER) & (2) STAGGERED ROWS OF 12d COMMON NAILS OR EQUIVALENT, AT 4" O.C. TO EVERY CONTACT MEMBER; STAGGER ROWS ON OPPOSING SIDES. (1) PLYWOOD ON EACH SIDE OF TRUSS.
- ATTACH (1) 2x8 2400I MSR SYP/2.0E SCAB TO TRUSS WITH CONSTRUCTION GRADE WATERPROOF GLUE (PL400 OR BETTER) AND (2) STAGGERED ROWS OF 12d COMMON NAILS, OR EQUIVALENT, AT 4" O.C. ATTACH PLYWOOD FILLER BETWEEN THE CHORD OF THE TRUSS AND SCAB, AS NEEDED. INSTALL PLYWOOD PER STEP 1. INSTALL AFTER PLYWOOD GUSSETS ARE APPLIED.



**ENDWALL OVERHEAD DOOR FRAME-OUT DETAIL**  
SCALE: 1 1/2"=1'-0"



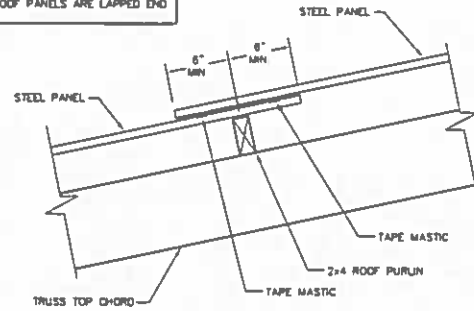
**SIDEWALL OVERHEAD DOOR HEADER INSTALLATION DETAIL**  
NOT TO SCALE

**MM**  
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800 SOUTH 9TH EAST SUITE 100 DENVER COLORADO 80202  
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PROJECT TITLE:  
**SHOP II STORAGE BUILDING**  
MANCHESTER, WI  
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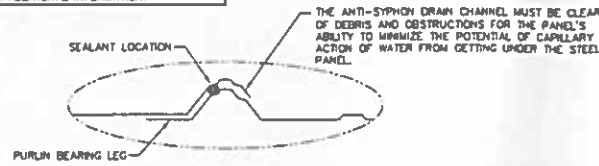
SHEET TITLE:  
**OVERHEAD DOOR DETAILS**  
FILE NAME: S16419W  
SHEET NO.  
**S8**

NOTE: TAPE MASTIC IS ONLY REQUIRED WHEN ROOF PANELS ARE LAPPED END TO END.

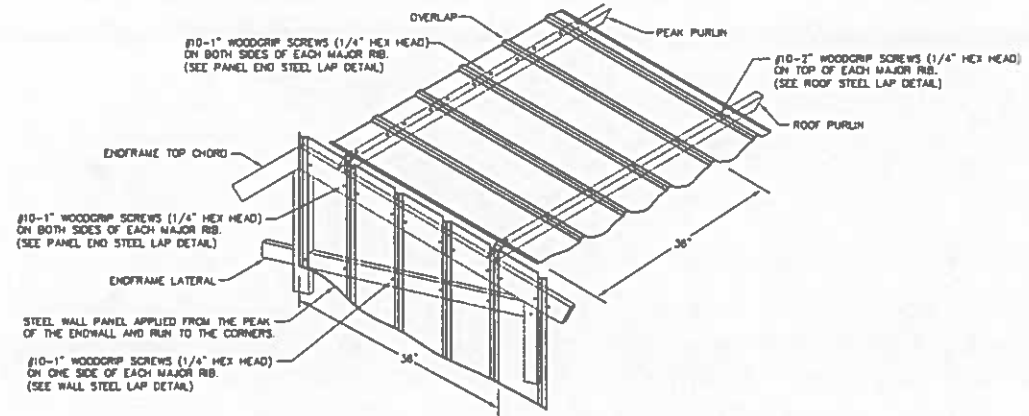


**TAPE MASTIC DETAIL**  
SCALE: 1 1/2" = 1'-0"

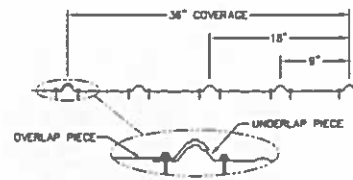
NOTE: BEAD MASTIC IS REQUIRED FOR LOW SLOPED ROOFS ONLY. SEE IBC CHAPTER 15 FOR ADDITIONAL INFORMATION.



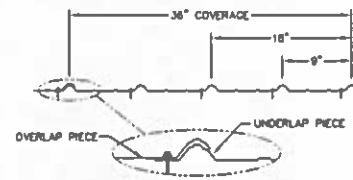
**BEAD MASTIC DETAIL**  
NOT TO SCALE



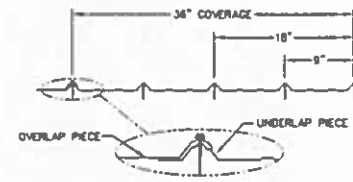
**ROOF & ENDWALL STEEL APPLICATION @ GABLE PEAK & INTERMEDIATE**



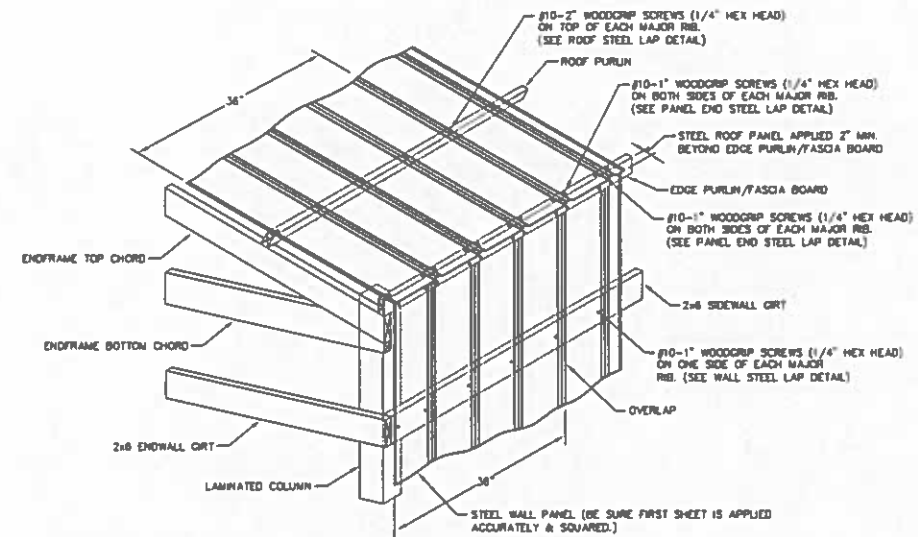
**PANEL END STEEL LAP DETAIL**  
NOT TO SCALE



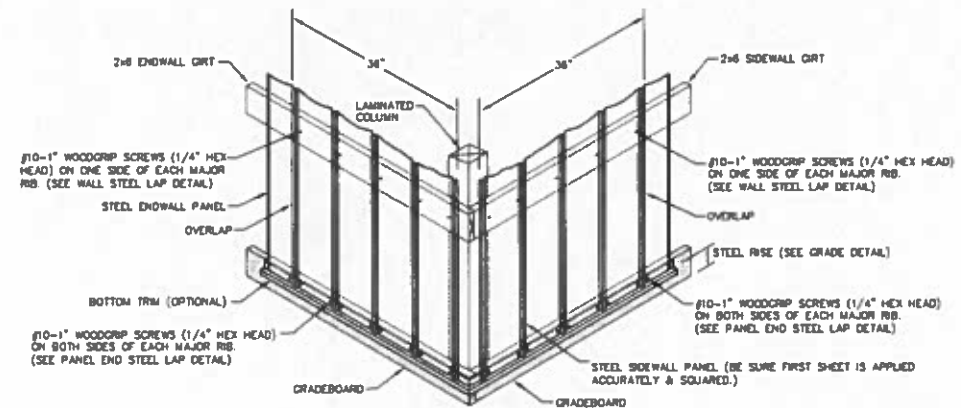
**WALL STEEL LAP DETAIL**  
NOT TO SCALE



**ROOF STEEL LAP DETAIL**  
NOT TO SCALE

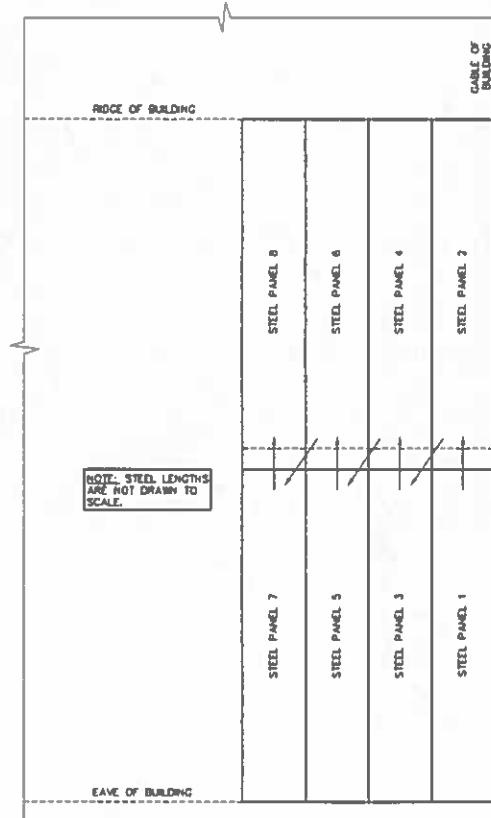


**ROOF & SIDEWALL STEEL APPLICATION @ EAVE**



**WALL STEEL APPLICATION @ GRADEBOARD**

**STEEL APPLICATION DETAILS**



NOTE: STEEL LENGTHS ARE NOT DRAWN TO SCALE.

**ROOF STEEL APPLICATION SEQUENCE**  
NOT TO SCALE

**STEEL PANEL INSTALLATION GENERAL NOTES.**

- 1) PROPER LAPPING OF STEEL PANEL IS VERY IMPORTANT IN THE PANEL'S ABILITY TO PREVENT LEAKING. OVERSEATING AND UNDERSEATING OF LAP IS NOT PERMITTED.
- 2) FASTENER TIGHTNESS IS CRITICAL IN THE LONGEVITY OF THE FASTENER'S ABILITY TO HELP PREVENT LEAKS AND STRUCTURAL LOAD CARRYING CAPACITY. OVER-TIGHTENING OF SCREWS WILL REDUCE THE SCREW'S WITHDRAWAL CAPACITY, REGARDLESS OF THE CONSTRUCTION MATERIALS INVOLVED. UNDER-TIGHTENING OF SCREWS WILL INCREASE THE POTENTIAL OF ROOF LEAKS.
- 3) FASTENER LOCATION IS CRITICAL FOR INSTALLERS TO MINIMIZE THE POTENTIAL OF OIL CANNING, DIMPLES, AND OTHER APPEARANCE RELATED ISSUES.
- 4) THE ANTI-SYPHON DRAIN CHANNEL MUST BE CLEAR OF DEBRIS AND OBSTRUCTIONS FOR THE PANEL'S ABILITY TO MINIMIZE THE POTENTIAL OF CAPILLARY ACTION OF WATER FROM GETTING UNDER THE STEEL PANEL.



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PROJECT TITLE:  
**SHOP II STORAGE BUILDING**

MANCHESTER, WI

PROF. ENGINEER: RYAN READER

PLAN DESIGNER: RYAN READER

DRAWN BY: JMS

DATE: 8/2/2019

SCALE: AS NOTED

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SHEET TITLE:  
**STEEL APPLICATION DETAILS**

FILE NAME: S16419M

SHEET NO.

**S9**