# RFP19-010-37 Hog/Sheep Barn Extension Waupaca County Fairgrounds, Weyauwega

## **General Description**

## **Building**

- New extension on building is to be fifty by sixty feet (50' x 60') with fourteen foot (14') clear height to the bottom of the trusses.
- Construction is to be post-frame with no more than 8' post spacing.
- This is to be an open walled building to match the existing building except in height.
- Electrical The County will be responsible for any wiring and lighting in the extension. This will be completed after construction is complete.
- Roof:
  - Roof pitch and design to match the existing building and meet state code specifications for load requirements. Ridge shall be adequately vented.
- Exterior See drawings for treatment of gable end and short wall between structures treatment.
- Existing Building Drift Load Updates Contractor is responsible for upgrading the end of the existing building to meet code requirements for this. See the notes and drawings.

## Site Preparations

- The County will complete site preparations to within a few inches of final grade for the contactor. The County will do the final surfacing inside the addition when the building is complete.
- Contractor will be responsible for post holes and proper footings see drawings.

## **Drawings and Certification**

The design/build contractor is responsible for all building and design submittals and submittal fees including but not limited to the State of Wisconsin DSPS building plan review fee, and State of Wisconsin DSPS component review fees (i.e. wood trusses).

## **Warranty**

Contractor will provide a minimum 1 year warranty for the building to be free from defects in material and workmanship from the completion date. This must include repairs to the roof if it leaks within this time period.

## **Timeframe**

The building must be completed by August 5<sup>th</sup>, 2019. Earlier is greatly encouraged.

## **Permits**

The County will obtain the local building permit for this project. The Contractor is responsible for State approval of the building plans and fees associated with that process.

#### RFP19-010-37 Detailed Information from our Engineer

GENERAL

- 1. Contractor shall field verify all dimensions, elevations, and conditions prior to starting work. Notify owner of any discrepancies or inconsistencies.
- 2. All material, workmanship, and details shall be in accordance with best construction practices, current manufacturer's recommendations, and all applicable codes and government regulations.
- 3. Contractor shall review all architectural, mechanical, and electrical drawings to coordinate and verify the location and dimensions of openings, chases, sleeves, penetrations, and any project requirements not specifically shown or detailed on the structural drawings.
- 4. The contractor shall supply all necessary temporary bracing, shoring, guying, or other means to avoid excessive stresses and to hold structural elements in place during construction.
- 5. Job site safety is the sole responsibility of the general contractor and their subcontractors.
- 6. The owner is not responsible for construction means, methods, techniques or practices.

Design Loads Per Asce 7-10

- 1. Roof Dead Load: Per Pole Building Designer
- 2. Snow loads:

Pg = 40 PSF Ce = 1.0 Ct = 1.2 (COLD ROOF) Is = 1.1 Ps = 33.6 PSF Drifting: see roof framing plan Unbalanced snow per 2015 IBC

3. WIND LOADS:

4.

BASIC WIND SPEED: OCCUPANCY CATEGORY: EXPOSURE CATEGORY: INTERNAL PRESSURE COEF: GCPI	V = 119 II C +/-0.18	5 MPH (3 SEC. GUST)
SEISMIC LOADS:		
OCCUPANCY CATEGORY: SITE CLASS: DESIGN CATEGORY: IMPORTANCE FACTOR: MAPPED SPECTRAL RESPONSE ACCELERA DESIGN SPECTRAL RESPONSE ACCELERA	ATION: TION:	II D A Ie = 1.00 Ss = 0.055 S1 = 0.035 SDs = 0.059
		SD1 = 0.056

#### SITE WORK

- 1. Caution; existing underground utilities may exist anywhere on the site. Notify digger's hotline prior to disturbing any grade or excavating.
- 2. Place foundation concrete on clean, firm bearing material.
- 3. Do not place any foundation work on frozen subgrade.
- 4. Foundation walls shall be adequately braced during backfilling and compaction to prevent movement or structural damage. Bracing shall remain in place until permanent bracing is in place and until concrete achieves sufficient strength to resist imposed loads.
- 5. When placing compacted fill adjacent to foundation walls and piers, place backfill at equal rates on both sides to prevent overturning or structural damage.
- 6. Assumed safe allowable soil bearing value of 2000 psf.

#### WOOD

- 1. All wood construction practices and materials shall conform to the following codes and standards:
  - ANSI/AF&PA NDS Supplements "National Design Specifications For Wood Construction" Latest Edition.
  - American Institute Of Timber Construction AITC "Timber Construction Manual" Latest Edition.
  - APA The Engineered Wood Association "PS1 Construction And Industrial Plywood" Latest Edition
  - ASTM Standard D1760 "Pressure Treatment Of Timber Products" Latest Edition.
- 2. Wood shall be identified by a grade mark or certificate of inspection issued by a grading agency authorized by the NDS "National Design Specification For Wood Construction"
- 3. Structural wood members shall have allowable stresses in accordance with the schedule of wood design stresses incorporated in this plan set.
- 4. The maximum moisture content of all wood shall be 19%.
- 5. Joist, rafters, purlins, and girts shall be securely fastened to supporting members per the nailing schedule or joist hanger manufacturers requirements.
- 6. Wood permanently exposed to the weather, in contact with exterior concrete, or in direct contact with the ground shall be pressure treated to a net retention of 0.40 p.c.f. And bear the appropriate American wood preservers bureau quality mark.
- 7. Wood members shall not be cut, notched, or drilled without written approval of the engineer.
- 8. Bolts and lag screws shall be ASTM A307. Use ASTM F844 standard cut steel washers between wood surfaces and head of bolts, head of lag screws, and nuts.
- 9. Joist hangers shall be installed in accordance with and comply with the specifications of the manufacturer.

#### PREFABRICATED WOOD TRUSSES

1. Prefabricated wood trusses shall be in compliance with and designed in accordance with the following agencies requirements and recommendations.

### RFP19-010-37

- ANSI/TPI "National Design Standard For Metal Plate Connected Wood Trusses" Latest Edition.
- TPI HIB "Commentary And Recommendations For Handling, Installing, And Bracing Metal Plate Connected Wood Trusses" Latest Edition.
- TPI DSB "Recommended Design Specifications For Temporary Bracing Of Metal Plate Connected Wood Trusses" Latest Edition.
- 2. Prior to installation, the wood truss fabricator shall submit structural calculations to the state of Wisconsin DSPS as a component submittal. The structural calculations shall contain an original professional engineers seal and signature by the design engineer registered in the state where the project is located.
- 3. Wood trusses shall be erected and braced in accordance with the Truss Plate Institute recommendations and references listed above.
- 4. Wood trusses shall be designed for all listed loads and a net wind uplift load per the 2015 IBC.

#### PRE-ENGINEERED WOOD POLE BUILDING

- 1. Design/build contractor is responsible for the complete pole building structural and architectural design including but not limited to roof & wall covering/sheathing, purlins, girts, trusses, post/poles, connecting hardware, flashing, footings/foundations, and all items required for a complete pole building package.
- 2. Design/build contractor is responsible for all existing building structural upgrades required due to new drifting snow loading as the result of the higher new roof.
- 3. Prior to installation, the wood truss fabricator shall submit structural calculations to the state of Wisconsin DSPS as a component submittal. The structural calculations shall contain an original professional engineers seal and signature by the design engineer registered in the state where the project is located.
- 4. Design/build contractor is responsible for all building and design submittals and submittal fees including but not limited to the local building permit, state of Wisconsin DSPS building plan review fee, and state of Wisconsin DSPS component review fees (i.e. Wood trusses).
- 5. Design/build contractor's architect or professional engineer is responsible for being the supervising professional and structural engineer of record for the building.

# RFP19-010-37 Waupaca County Fairgrounds Storage Building Weyauwega, WI Proposal Sheet

Contractor Name:		
Address:		
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- Phone Number:		
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Building Cost:		
Proposed Completion D	Date:	

Instructions:

Include this sheet along with materials to explain your proposal in a sealed envelope clearly marked **"Waupaca County Fairgrounds Hog/Sheep Barn Extension Proposal"** and deliver to the Waupaca County Parks and Recreation Office by 9am local time on Friday, March 29<sup>th</sup>, 2019.