# PRE-BID MEETING

## KANKAKEE STORAGE BUILDING
## KANKAKEE FISH & WILDLIFE AREA
DEPARTMENT OF NATURAL RESOURCES
STATE OF INDIANA

Project No: ENG1802886315
**Requisition No: 0000096761**

Kankakee Fish & Wildlife Area
4320 West Toto Road, North Judson, IN 46366

Date: **June 5, 2018 @ 10:00 am**
Location: Project Site

A.  Attendee Sign-in

B.  Project Contacts:

 1.  Bidding Document Questions:
 Michael E Johnson 317-233-1101 MicJohnson1@dnr.in.gov
 Mike Manion 317-670-8250 MManion@dnr.in.gov

 Division of Engineering IDNR
 402 West Washington Street, W299
 Indianapolis, Indiana 46204

 2.  Site Access
 Bryan Boggs, Property Manager
 Telephone:   574-896-3522
 Email:   BBoggs@dnr.IN.gov

C.  Bidding and Contract Requirements:

 1.  Project is estimated at $150,000 and above
 2.  Qualification by the Certification Board is required for this project prior to bid opening
 3.  Reference Bidding and Contract Requirements for detailed instructions

D.  Schedule:

 1.  Sealed Bids received until 1:31 PM (Indianapolis Time) June 21, 2018
 2.  Contract Duration: 300 days

E.  Allowances:

 1.  A Remediation Allowance of $2,000.00 shall be included in the Base Bid as a separate item in the Schedule of Values adding up to the total bid price.
 2.  If any portion of the remediation allowance is not used during the project, that portion will revert to the owner and will not be included in the contractor's final payment.

F.  Scope of Work Generally Includes:

1.  The Base Bid and three (3) Alternates for a 60' W x 100' L x 16' H post-frame storage building at Kankakee Fish and Wildlife service area in Starke County, including foundations, concrete floor slab, and concrete aprons.
2.  Providing Construction Documents for the post-frame storage building and foundation (drawings and specifications) prepared and sealed by design professional licensed in the State of Indiana.
3.  Obtaining a Construction Design Release from Indiana Department of Homeland Security.
4.  Providing approved shop drawings and AutoCAD as-builts to the Owner for 'project file'.
5.  Reference drawing C-1 and specification Section 01010 – Summary of Work for alternates and additional, detailed information.

G.  Site Tour, User Group Discussion & Coordination, and Clarifications:

1.  Removal of marked trees that are located in storage building footprint, and removing / reinstalling part of existing fence only if necessary for storage building construction.
2.  Maintaining Site Access during the project
3.  Location of the existing electrical panel for electrical service tie-in for the new building.
4.  User's preferred location for the two man doors and aprons (1.03 items E & K).
5.  Clarification: Furnish, install, and connect Overhead Door Operators, Remotes, and Keypads (1.03 item F) as part of Alternate #1. Base bid to include manual chain hoists.
6.  User's preferred location for the exhaust fan (1.03 item M).

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| NAME | COMPANY | E-MAIL | PHONE |
|---|---|---|---|
| 11 Bryan Boggs | IDNR | BBoggs@DNR.IN.GOV | |
| 12 Mike Manion | P.N.R. Engineering | mmanion@dnr.in.gov | 574-242-2538 |
| 13 Shawn Dickt | FBi Buildings | sdickt@fbibuildings.com | 815-677-1442 |
| 14 Glen E. White Jr | FORM JT CORP | glen@whitesbuilding | |
| 15 Jeffrey Littco | Garlup Const. | Jeff.Littco@Garlup.com / Megan.rogers@Garlup.com | 574-225-323 / 219 887 5253 |
| 16 Mark Livinghouse | Michiana contracting | MLivinghouse@michianacontracting.com | 574-930-45. |
| 17 Iran Torres | Michiana Contracting | Itorres@michiana-contracting.com | 574-936-8613 |
| 18 Sean Gebhard | IDNR | Sgebhard@DNR.IN.gov | |
| 19 Kevin Yoder | R. Yoder Construction | Kevin@ryoderconstruction.com | 574-773-3502 |
| 20 | | | |

# TechVENT® (all versions) – Installation Instructions

## 1. PRODUCT

TechVENT® is a nailable composite roof insulation panel for sloped roof applications (minimum 3:12 pitch) made with Iso or XPS foam with a built-in space for roof ventilation. Panel size is a nominal 4' x 8' (actual coverage approx. 47-1/4" x 95-1/4"). Edges of wood sheathing are rabbetted or cut back to allow for expansion with foam edges machined into a tongue and groove profile. CHECK LOCAL BUILDING CODES for any applicable requirements.

## 2. STORAGE

TechVENT® products are shipped in units covered with a plastic bag which is intended to temporarily protect the material while in transit only. On the jobsite the units should be covered with a breathable waterproof tarpaulin. The plastic bag should be removed if moisture accumulates inside it.

## 3. PRODUCT APPLICATION

TechVENT® is designed to allow air flow through the air space below the top sheathing. To do this it must have the following:

a. Adequate air entry flow at the eave. Use eave edge vents or eave soffit vents which allow approximately 9 square inches of air entry per foot run of eave. Where edges blocking is used at the eave, do not cover the entrance to the air space.

b. The TechVENT® air spaces must not be closed off. If you need a smaller panel it is usually best to cut off the side or end with the tongue on it. Support the cut edge with spacer blocks running up the slope. Extra spacers are supplied with every shipment.

c. A ridge vent with approximately 10 square inches of open area per foot run the ridge should be used. Warm moist air leaking from the inside of the building can cause condensation at the ridge, at the end walls or at any other opening. Seal off these openings by cutting the foam insulation at a suitable angle and filling any gaps with spray foam or caulking. Do not use combustible spray foam around chimneys.

## 4. INSTALLATION

a. If specified, install a vapor retarder on the supporting roof deck. We recommend one over high humidity areas such as swimming pools. In this case particular care should be taken to seal all openings on the deck around lighting fixtures, skylights, end walls, and at the ridge, etc. On any building where conduit is installed above the structural deck, a separate layer of 1-1/2" thick foam insulation is recommended.

b. Fire safety precautions should be observed when TechVENT® is installed. Protect foam from flame cutting and welding operations, etc. Around chimneys provide suitable fire protection.

c. Install wood nailers at the eave and rake edge of the roof. Before installing the first row of insulation at the eave check how the eave vent or the sheathing over the roof overhang will be supported. Check the supporting roof deck is smooth and even without bumps or depressions.

d. Lay panels with the wood side up and the long side parallel to the ridge. Note: If using a base foam layer first secure it to the deck. The tongue side of the T & G profile should face up the slope. Sheathing has rabbetted edges to maintain the proper expansion clearance between adjacent panels. Field cut panels should be kerf cut to maintain a 1/8" minimum gap between the sheathing on adjacent panels. Stagger end joints in succeeding panel rows. **NO CLIPS REQUIRED TO GAP PANELS.**

e. Place screws directly through the panel into the structural deck, use insulation fasteners as shown on the next page. Do not over-torque the screws and compress the insulation too much.

f. Check the insulation top surface for uneven edges BEFORE covering. Grind off any uneven edges with an electric sander or grinder.

g. Roofing should be applied over dry insulation as soon as possible. Apply roofing felt and shingles to TechVENT® using shingle nails placed according to shingle manufacturers' recommendations. For best results use barbed or ring shank shingle nails and premium or laminated shingles.

h. Install eave and ridge vents as described under Product Application. 10 in/ln ft open area minimum.

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5. <u>INSULATION FASTENERS</u>—Use Tech SIP Fasteners

    a.    <u>Number</u> —Minimum of 15 Tech SIP Fasteners per 4' x 8' panel to meet standard load requirements. Apply fasteners at the approximate position of the internal spacers as shown in drawing below. There are lines on the sheathing (OSB only) at 24" and 48" from the panel ends which will assist in locating the fasteners. Ignore the lines at 16" and 32. Use additional screws at the rakes, eaves ridge as shown. If high wind load requirements exist, contact fastener manufacturer.

    b.    <u>Wood deck</u> -Use Tech SIP Fasteners 1-1/4" to 1-1/2" longer than the overall depth of the TechVENT® insulation panel. If the wood deck is less than 2" actual thickness, use fasteners with a minimum of 1" penetration and install 4 extra fasteners on the horizontal center line of the panel. On plywood use fasteners that protrude through the deck at lease ¼". If exposed fastener tips are not acceptable, contact Kurt Building Materials for suggestions.

    c.    <u>Steel Deck</u> – Use Tech SIP Fasteners with a minimum of 1" penetration into the steel deck; 1" longer than TechVENT® panel thickness

    d.    <u>Concrete Deck</u> – use Tapcon screws or equal. Advance testing is recommended.

    e.    <u>Special Applications</u> – Contact us for special applications not shown here.

6. <u>FASTENER PATTERN</u>

    a.    Use 15 screws per panel (5 across-parallel to the ridge & 3 up the slope) as the standard fastening pattern (1-90 uplift requirements), add additional fasteners as shown below. If high wind load requirements exist, contact fastener manufacturer or Kurt Building Materials for recommendations.
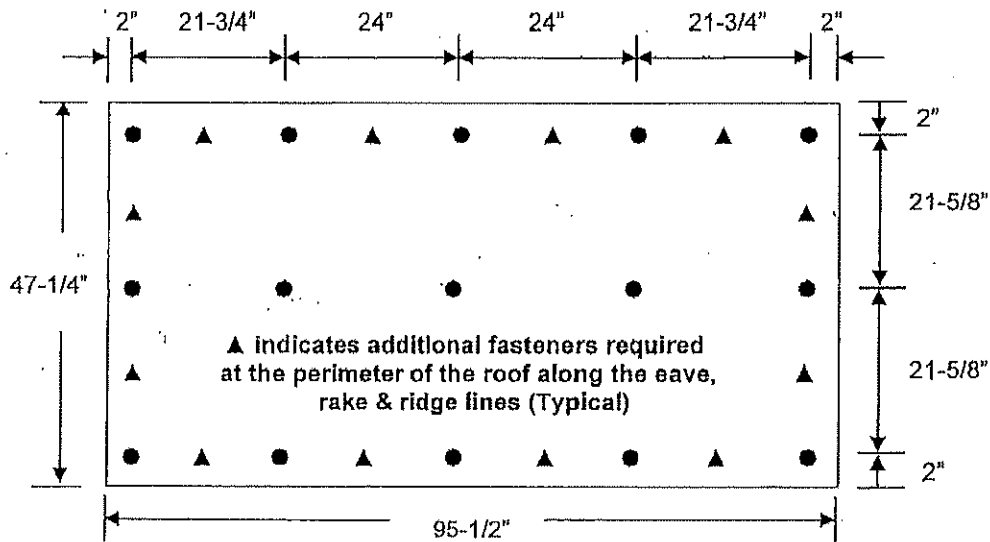


    b.    When installing heavy material such as natural slate or tile on a pitch greater than 4/12 but less than 8/12, install 4 additional fasteners on each panel along the center of the panel (aligned along the 8' length) parallel with the ridge line. For roof pitch 8/12 or greater contact Kurt Building Materials for recommended fastener patterns.

    c.    NOTE: For panels of overall thickness 6" or more, add 4 additional fasteners per panel; SEE 19 COUNT PATTERN.

Visit our website/contact Kurt Building Materials for additional details or consult your architect.

**KURT BUILDING MATERIALS div. of Kurt Manufacturing**
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