Fort Peck Fisheries - Shop Building
Fort Peck, Montana **September 22, 2014**

The following items change, modify or further explain the Contract Documents for the above project and will become a part of those documents.

SPECIFICATIONS:

06 10 00 ROUGH CARPENTRY:

A. Treated Lumber, Sills, Plates, Wood Foundations:
   a. **Change** to G-185 Galvanized, Stainless Steel, or Ceramic-coated fasteners wherever used in contact with any treated lumber.

06 12 00 STRUCTURAL PANELS:

A. **Contractor's Option** to use SIPs in lieu of wood framed exterior walls per attached specification (§06 12 00 Structural Panels) and typical wall drawing. Contractor will be responsible for any other changes that may result from their choice to use SIPs.

07 40 00 ROOFING & SIDING PANELS:

A. **Change** to Kynar 500 finished roof and wall panels in lieu of specified Galvalume finish.
B. **Change** to Kynar 500 finished snow guards to match roof panels.

ARCHITECTURAL:

General:

A. All exposed steel to be factory primed and field painted.

A3.0:

A. 7 - Hoist & Trolley: **Add** (2) 4" lengths of 3x3x1/4" angle to the bottom flange of the hoist beam to serve as stops; one angle on each end. Attach angles w/ (2) ½" through-bolts.

ARCHITECTURAL APPROVALS:
Review of substitution items is for general conformance with design concept of the project and does not relieve the Contractor from the responsibility of furnishing equipment and materials to meet the requirements and intent of the Contract Documents. All prior approval will be subject to shop drawing review. The Contractor is responsible for additional installation requirements for other trades where adjustments must occur to use the following manufacturers:

Roofing & Siding Panels: NuRay Metals (7.2 Rib & NRM 4500TR)
Tube Skylights: Velux (Sun Tunnel)

MECHANICAL & ELECTRICAL:

MECHANICAL & ELECTRICAL APPROVALS:
Substitution approval is an acceptance of only the manufacturer and product for general conformance with the design concept reflected in the Contract Documents. The responsibility of

the verifying a specific proposed substitution model can meet submitting the Contract Documents remains with the Contractor. The Contractor agrees to pay all additional construction costs created by acceptance of this substitution.

The Contractor certifies the following if a substitute product is used during construction:

- Proposed certifies that the function, appearance, and quality of the proposed substitution are equivalent or superior to the specified item.
- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Mechanical:
UH-1: York
EF-1,2: Acme
E1, S1, R1: Nailor

Electrical:
Light Fixture F1, F2, F3: Columbia, Metalux, Lumark

PLANHOLDERS: See attached.

END OF ADDENDUM #1

06 12 00 – STRUCTURAL PANELS

GENERAL REQUIREMENTS: Per DIVISION 6 – WOOD, PLASTICS & COMPOSITES

SUMMARY: Section Includes: Structural Insulated Panels (SIPs). SIPs: R-Control Panels are pressure laminated composites of approved oriented strand board (OSB) and AFM Certified Perform Guard[a] expanded polystyrene (EPS) insulation, manufacturer supplied connecting splines and approved fasteners. Performance Requirements: Provide SIPs which have been manufactured, fabricated and installed to withstand 22.5 psf wind load, 30 psf roof live load, 10 psf roof dead load, and to maintain L/360 deflection performance criteria stated by manufacturer without defects, damage or failure.

SUBMITTALS

General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.

Product Data: Submit product data, including manufacturer's SPEC-DATA[a] product sheet, for specified products.

Code Compliance: Provide evidence of compliance with ICC code requirements as an alternate method of construction.

Shop Drawings: Submit shop drawings showing layout, profiles, product components and accessories.

Samples: Submit selection and verification samples for finishes and textures as required.

Quality Assurance Submittals: Submit the following:

Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties. Manufacturer shall certify that panels have been tested in accordance with ASTM E72, ASTM E119, ASTM E84, and other applicable tests.

Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria, and physical requirements. Manufacturer shall supply a hard copy product certificate showing compliance to Third Party Quality Control.

Manufacturer's Instructions: Manufacturer's installation instructions and construction detail book.

DELIVERY, STORAGE & HANDLING:

Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.

Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

Storage and Protection: Store materials protected from exposure to harmful weather conditions, at temperature and humidity conditions recommended by manufacturer. R-Control panels shall be fully supported in storage and protected from weather. Cover stored panels with tarps or similar protective wraps. Panels shall be stored in a protected area and supported to prevent contact with the ground. Prior to installation, panels shall be covered and protected from exposure to sunlight and moisture.

STRUCTURAL INSULATED PANELS:

Panels: R-Control SIP, a pressure laminated panel consisting of the following:

Perform Guard expanded polystyrene core - minimum of 0.95 pcf (15.2 kg/m3) AFM Certified EPS complying with ASTM C578 (other densities may be specified). Insulation manufacturer must provide certification of Third Party Inspection and Listing as an AFM Certified EPS manufacturer.

OSB - shall be identified on the panel with an APA or TECO performance rating mark with an Exposure 1 durability rating; minimum physical properties shall be tested and meet PS 2. **Exterior face to be 5/8" thick, minimum.**

Treat panels with Frameguard mold/mildew/termite resistant OSB wood treatment.

Adhesives - shall be an R-Control Building Systems approved laminating adhesive having an in-use temperature range of -40 to +250 degrees F.

Splines: Splines for use in joining panels shall be supplied by panel manufacturer.

Fasteners: #14 corrosion resistant R-Control Screws for roof, corners and attachment of panel to frames. In addition, zinc galvanized screws, nails or staples for spline and plate attachments. Fasteners as supplied or approved by panel manufacturer following fastening requirements.

Adhesive/Sealant: Do-All-Ply for installing accessories and dimensional lumber shall be supplied by panel manufacturer and installed per R-Control Details.

Foam Sealant: A sealant compatible with each component of panel and adjacent materials.

Dimensional Lumber: Hem-Fir #2 or better or pre-engineered equivalent ***supplied by the contractor.***

Fire Testing: Panel shall have successfully passed the following fire tests as conducted by testing agencies approved and listed by the model code. In addition, panel must be listed in current UL Directories, Sections BLBT, BXUV, BZXX and QRSY.

ASTM E119, 20 minute with 3 story load applied for duration of the test.

ASTM E119, (small scale) 20 minute and one hour wall exposures with openings.

ASTM E84, Surface Burning Characteristics conducted for the rigid insulation core.

ASTM E84, Surface Burning Characteristics conducted for the interior and exterior surfaces of the finished panel.

Wind Uplift: Calculated for recommended fastening of roof panels by a certified engineering professional.

MANUFACTURER'S INSTRUCTIONS: Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product carton instructions for installation.

EXAMINATION: Site Verification of Conditions: Verify substrate conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions. Verify conditions of substrate, grade and other conditions which affect installation of panels. Any adverse conditions shall be reported in writing. Do not proceed with installation until adverse conditions are corrected.

INSTALLATION:

Panel Supports: Provide level and square foundations or floors that support wall panels. Hold sill plate back from edge of rim board 7/16" (11 mm) to allow full bearing of OSB skins. Provide 1 1/2" (38 mm) diameter access holes in plating to align with electrical wire chases in panels. Provide adequate bracing of panels during erection. Remove debris from plate area prior to panel placement.

Panel Fastening: Connect panels by nails or staples and Do-All-Ply adhesive/sealant. Screws of equal strength may be substituted for nails and staples when used at an equivalent frequency. R-Control Do-All-Ply must be used together with each fastening techniques. When R-Control Screw Fasteners are used, provide a minimum of 1" (25.4 mm) penetration into support. Join R-Control panels using plates and splines. Secure attachment with nails, staples, or screws, and Do-All-Ply. Provide R-Control Do-All-Ply adhesive/sealant. Apply Do-All-Ply in a 1/4" (6 mm) x 1/8" (3.2 mm) bead to wood surfaces. Size bead shall result in optimum coating when plates and splines are installed following manufacturer recommendations.

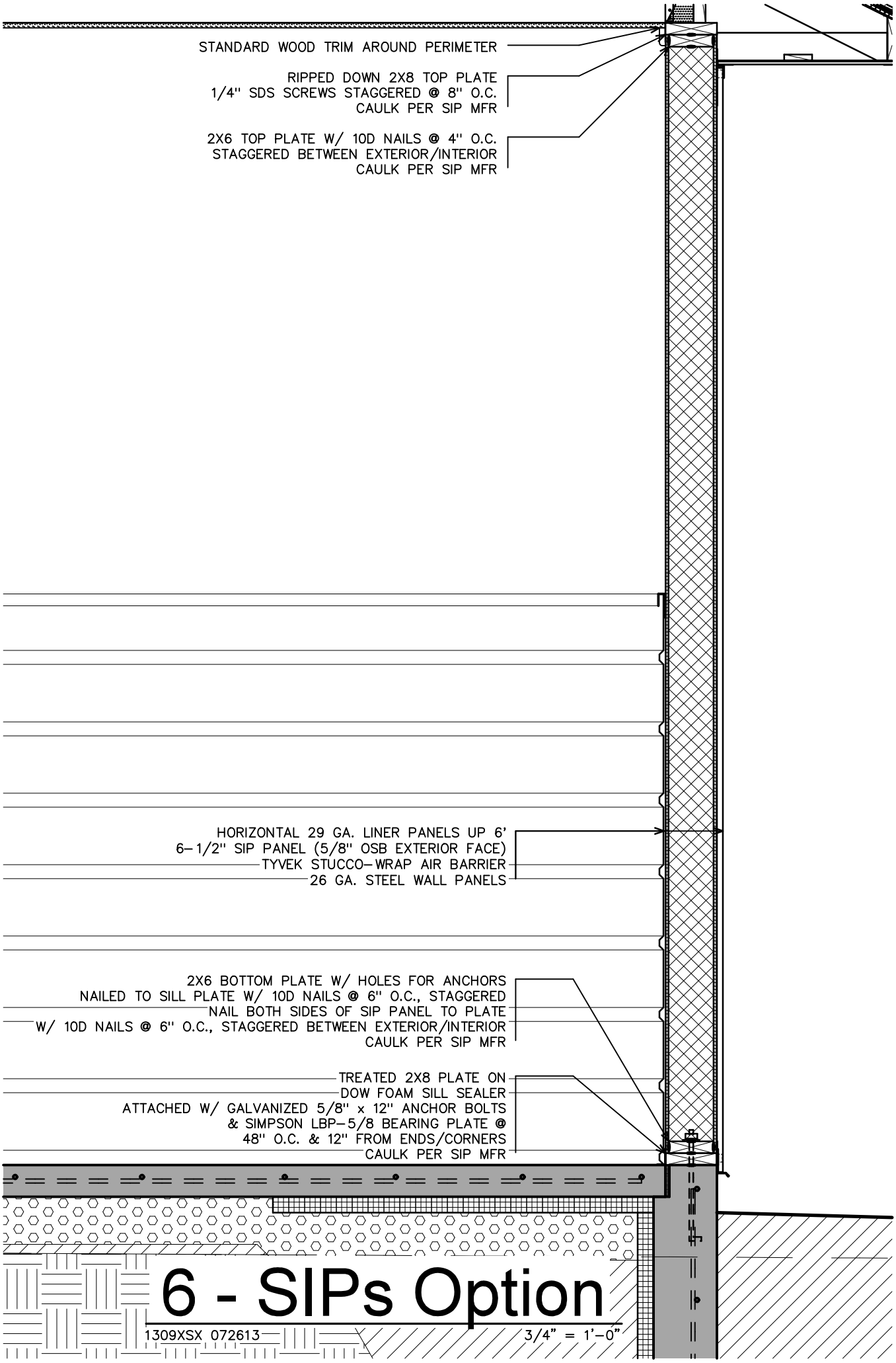
Provide R-Control Do-All-Ply when sealing joints in contact with EPS foam insulation. Apply Do-All-Ply in a 1/2" x 1/2" (5 x 10 mm) bead where shown in R-Control details. When properly applied, R-Control Do-All-Ply shall augment overall tightness of structure.

Restrictions: Do not install panels directly on concrete. Do not put plumbing in R-Control panels without consulting panel manufacturer. Do not over-cut skins for field-cut openings and do not cut skins for electrical chases. Remove and replace insulated wall or roof panels which have become excessively wet or damaged before proceeding with installation of additional panels or other work.

Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to owner's acceptance. Remove construction debris from project site and legally dispose of debris.

Protection: Protect installed product and finish surfaces from damage during construction. Roof panels: Protect roof panels from weather by roofing materials to provide temporary protection at the end of the day or when rain or snow is imminent. After installation, cover panels to prevent contact with water on each exposed panel edges and faces.

END OF SECTION


STANDARD WOOD TRIM AROUND PERIMETER
RIPPED DOWN 2X8 TOP PLATE
1/4" SDS SCREWS STAGGERED @ 8" O.C.
CAULK PER SIP MFR
2X6 TOP PLATE W/ 10D NAILS @ 4" O.C.
STAGGERED BETWEEN EXTERIOR/INTERIOR
CAULK PER SIP MFR
HORIZONTAL 29 GA. LINER PANELS UP 6'
6-1/2" SIP PANEL (5/8" OSB EXTERIOR FACE)
TYVEK STUCCO-WRAP AIR BARRIER
26 GA. STEEL WALL PANELS
2X6 BOTTOM PLATE W/ HOLES FOR ANCHORS
NAILED TO SILL PLATE W/ 10D NAILS @ 6" O.C., STAGGERED
NAIL BOTH SIDES OF SIP PANEL TO PLATE
W/ 10D NAILS @ 6" O.C., STAGGERED BETWEEN EXTERIOR/INTERIOR
CAULK PER SIP MFR
TREATED 2X8 PLATE ON
DOW FOAM SILL SEALER
ATTACHED W/ GALVANIZED 5/8" x 12" ANCHOR BOLTS
& SIMPSON LBP-5/8 BEARING PLATE @
48" O.C. & 12" FROM ENDS/CORNERS
CAULK PER SIP MFR
6 - SIPs Option
1309XSX 072613
3/4" = 1'-0"