ATTENTION: ALL BIDDERS AND PLAN HOLDERS

April 2, 2012

RE: CONTRACT NO. SP-3412 - Cheyne Transfer Station

ADDITIONAL INFORMATION NO. 2

You are hereby given of the following additional information. The Contract Documents are not changed by the additional information which responds to questions received by 6:00 pm Wednesday, March 28th. These questions and responses, in italics, are as follows:

- Is there to be Dampproofing on the below grade foundation walls? If yes, what buildings? As this is specified but not shown on drawings.
  
  *In Specifications refer to Section 07162 for Dampproofing and in Drawings, refer 6/02A-31 for the foundation detail.*

- The frames of the building are drawn in the perpendicular direction of the roof slope. We have asked two manufacturers to look at this and they have both declined to bid on it due to the fact if does not fit their standard product offerings. We could utilize the current frame locations if we were able to change the roof slope direction. We propose to add a ridge down the length of the building from grid 1 to grid 6 with a 1:12 gable building. This would put the eaves along grids A & F and make the building a more economical solution fitting in with standard product offerings.
  
  *Maintain the building layout and design as shown on contract drawings.*

- Drawing 01A-12 calls for a roof cricket at the lower building structure along grid line 6. Can we substitute this with an interior gutter? *Yes.*

- Drawing 01A-32 calls for a metal roof on plywood purlin by building manufacturer. Please clarify what is required here.
  
  *For attachment, plywood can be deleted. Provide IBC compliant design for SSR attachment.*

- Section 05521 – Roof Fall Protection Systems – the system specified is for a temporary warning line type system that is used for flat, wood framed structures. The drawings and division 13 spec section call for the fall protection system to be attached to the structure and the design and layout to comply with IBC 2009. The layout on drawing 01A-12 has the anchors located not on the frame locations. Please clarify what is required or the desired design intent.
  
  *Manufacturer to design for and provide fall protection in compliance with IBC and OSHA.*

- Is the transfer building to be insulated in the roof and/or walls with any type of insulation? Section 13121-1.4-A states the building will be non-insulated but in 13121-3.1-B&C it calls for the insulation to be installed between the roof/wall panels and the purlins or girts.
  
  *The transfer building will not be insulated in the roof nor the walls.*

- The specifications section 01640 – Product Substitutions does not allow for any substitutions before the bids are due. Section 13121-2.1-A-1-b states Approved alternates. If you are not allowing approved alternates and the specified manufacturer
only sells its products through a dealer network and one of the listed bidders is the local dealer for that product, how is that fair competition?

Yakima County requires a building that meets all of its standards. If a product is demonstrated to be equal to or better than the building specified, it will be approved. Bidder to follow general requirements in specifications.

- 13121-2.2-H-2 states that the embedment details of the anchor bolts are to be developed by the Contractor. This is not covered by building manufacturers and is usually covered under the structural engineer. The quantity, projection and spacing’s of the anchor bolts will be called out on the layout drawings provided by the manufacturer. The structural engineer doing the foundation design is responsible for the embedment.

*Question was addressed in Additional Information 1. Refer to that document for response.*

- 13121-2.3 Accessories calls out wall liner panels. Are their interior wall and roof liner panels required? There is also a designation in this section for type I and type II panels that are called out on the drawings to be on the exterior of the building. Then in section 2.5 there are different panels called out for the roof and walls.

*No wall or roof liner panel required. Refer to Addendum 3 for specification change.*

- 13121-2.2-A calls for structural members to be galvanized. Section K calls for manufacturers standard rust inhibitive primer paint. Are the main frames to be galvanized or primed?

*Use hot dipped galvanized for structural framing members. Refer to Addendum 3 for specification change.*

- 13121-2.3 Accessories
  - Wall Liner Panels – this is not shown anywhere on the drawings. Is this required?

*No wall or roof liner panels on project. Refer to Addendum 3 for specification change.*

  - Type I and Type II panels are listed here and shown on the elevation drawings – is this type of panel to be used on the exterior of the building for the walls?

*Yes.*

  - #7 calls for a crimped panel base. This is a proprietary item to Varco-Pruden only. Can we substitute standard base angle and base trim?

*Yes.*

  - Item B calls the panel to be similar to VP Panel Rib for the wall panels and roof liner panels. It then goes on to call it a standing seam 26 ga panel. The Panel Rib panel is a 36” wide through fastener “R” type panel and is not a standing seam panel. In section B-6, it calls for a VP SSR standing seam roof panel. Please clarify this spec section.

*This section has been deleted. Refer to Addendum 3 for specification change.*

- 13121-2.4-A-2 states to provide minimum clear height of 25 ft as indicated on the drawings. Drawing 01A-31 states 26 ft. clear minimum at grid 3 and a listed clear height at grid 5 of 22 ft. Please clarify requirements as they relate to clear heights required.

*Provide minimum clear height as indicated on the drawings. Refer to Addendum 3 for specification change.*
• 13121-2.4-J-3 states required deflection requirements. These are higher than we normally see for this type of building application. The manufacturer standard for this would be as follows:

**Deflection Conditions**

Frames are vertically supporting: Metal Roof Purlins and Panels
- Default Deflection Limit: V/180 Load Case W
- Default Deflection Limit: V/180 Load Case S
- Default Deflection Limit: V/180 Load Case L

Frames are laterally supporting: Metal Wall Girts and Panels
- Default Deflection Limit: H/10 Load Case E
- Default Deflection Limit: H/60 Load Case W

Purlins are supporting: Metal Roof Panels
- Default Deflection Limit: V/150 Load Case L
- Default Deflection Limit: V/180 Load Case W
- Default Deflection Limit: V/180 Load Case S

Girts are supporting: Metal Wall Panels
- Default Deflection Limit: H/90 Load Case W
- Default Deflection Limit: H/90 Load Case E

_Comply with 13112-2.4-J-3 for structural framing members._

• 13121-2.5-A-6-a-1) This spec conflicts with the use of manufactures standard primer. (TT-P-636-D and TT-P-636-C provided) Cleaning on primary and secondary structural’s with a SSPC-SP-2 is provided as standard product offering. *Galvanized. Refer to Addendum 3 for specification change.*

• 13121-2.5-B & C – This spec section conflicts with what was stated above about the roof and wall panels. Please clarify what is required for the Roof panels and type 1 and type 2 wall panels. *Wall panel orientation is the difference between Type 1 and Type II.*

• There are no specifications listed in Div. 13 for the translucent wall panels indicated on the drawings. Can we use manufacture standard light panels at the wall that match the same profile of the wall panels?
  *Yes.*

• 13121-11 B. Roofing Panel calls for a 24ga standing seam roof but item 7. References a Panel Rib Roof which is not a standing seam roof panel but a screw down roof panel. *Replaced with “SSR System”. Refer to Addendum 3 for specification change.*

• 13121-11 C. Wall Panels: calls for a 16” ImpressaClad panel but this panel does not match that indicated on the elevation drawings nor referenced elsewhere. This is smooth hidden, fastener wall panel system. The drawings represent a standard screw down Panel Rib Wall Panel profile. Please clarify exactly what the intent is. *2.5c: Metal Panel Type I: “Impressa Clad” Vertically Oriented. Type II “Impressa Clad” Horizontally Oriented.*

• The drawings indicate through reference notes that plywood sheathing is to be placed on top of the roof purlins then a roof panel attached to it. This is not a normal pre-engineered building installation system especially for a standing seam roof. I am wondering if this is being confused with the details for the smaller stick framed buildings. What is the clear intent of the construction of the roof system?
Plywood can be removed. Metal Building Manufacturer to provide IBC compliant design of SSR Roof attachment detail.

- Under 13121-7 I. Fall Protection it indicates that the pre-engineered building manufacturer is to layout and design the fall protection system yet section 5521 indicates the Fall Protection systems to be used including design. This is not usually a system that would be designed by the pre-engineered building manufactures. Could you please clarify your intent?

Section 05521 applies to the scale house only. Metal building manufacturer shall design and provide fall protection in compliance with IBC and OSHA.

- What is the extent of the modifications to the pre-engineered building layout that can be made prior to bid? The current design runs frames perpendicular to the roof pitch which is not common or cost efficient since the roof purlins typically run perpendicular to the standing seam roof panel seams. With that said can we assume that if we change the building configuration to match that of the Terrace Heights facility owned by Yakima County? If the changes can be made who is going to be required to make the engineering changes to the foundation, HDR? If HDR is required to make any changes what is the cost to be expected for these changes?

No change.

- Is there to be an interior Panel Rib ceiling and interior wall surface liner panel as identified in the specifications 13121-5 Item 2.3 Accessories A? On item B where it denotes the roof liner panel it talks about a standing seam panel for a liner. Please clarify your intent.

These items have been deleted. Refer to Addendum 3 for specification change.

- Can the parapet wall section be removed on the East side of the pit building to allow for a standard gutter and downspout condition as creating crickets with a standing seam roof in this condition is not recommended by the metal building manufacturer?

Yes. Submit modification proposed by metal building manufacturer for approval after award.

- Does the roof or walls of the Transfer Building get any insulation system, liner panel or bird netting and if so could you please identify where the extent of this scope of work can be obtained.

No insulation. No liner panel. Provide bird netting at open area of top load in drawing 01A-11.

- Pre-engineered building specifications indicate that the factory applied primer is permitted but later in the specification it is noted as not acceptable. Please clarify what the intend of the finishing system is to be for this building structure.

Provide hot dip galvanized. Refer to Addendum 3 for specification change.

- Drawings 01S-11 referenced a detail 2/01S-31 which do not existing on that sheet.

This detail should read “2/01S-51”. Refer to Addendum 3 for drawing change.

- Concrete Slab Finishers have some real concerns about the restriction of SOG placement sizes. The sizes cause a large number of small placements which also entails more construction joints. Is there anything that can be done to lessen the restrictions?

Construction joint plans can be submitted for the engineer’s review during construction.

- The shake-on hardener is nearly impossible to place based on the specifications unless we did individual square placements then hop-scotched all over as the shaker equipment is
only 28\text{ft} wide. It can’t be put on going the other direction unless a bridge was made. *Bid based on hop-scotching with shaker equipment.*

- The specification for the wall panels (07411) does not match specifications section (13121). In 07411 they are calling for an AEP Span Nu Wave style panel which fits the horizontal lower panel noted as type 2 but there is no mention of the type 1 panel profile. What profile is the type 1 panel?
  *Reference 07411 for scalehouse requirements. Reference 13121 for transfer station requirements.*

- Specifications call for a G90 material for the wall and roof panels. This is an extremely expensive and I believe it is an error. Can you please check. Also, in the email I sent you yesterday I referenced the gauge of the ImpressaClad wall panels incorrectly. They only come in 20 gauge.
  *Reference 07411 for scalehouse requirements – provide G90. Reference 13121 for transfer station requirements – provide G30.*

- Specifications section 07412 indicates hot dipped galvanizing for the roof panel clips and bearing plates. I cannot locate a specific reference to the finish on the main frames. Do they need to be hot dipped galvanized? Or just primed?
  *Main frames should be hot dipped galvanized per 13121-2.2A.*

- Specifications section 2.5 A paragraph c-1 c. mentions FM Class 1 rating. Are we to include a Factory Mutual rating? If so, what category? 1-90, 1-120, 1-60
  *Yes, FM 1-90.*

- Clarify the roof panel, the SLR2 is an architectural grade panel 16\text{”} wide, there is a 30\text{”} wide panel that would be more economical and perform just as well.
  *Reference 07412 for scale house requirements only.*

- Please also clarify if the plywood at the roof is required, it is not necessary roof panel support and can be deleted. All it does is add unnecessary weight to the building.
  *Plywood can be deleted. If it is, provide IBC compliant design for SSR metal roof attachment.*

- How is the roof panel supported if it runs parallel to roof purlins?
  *Exterior graded plywood or intermediate steel bridging should be installed between purlins for metal roof attachment, comply with FM-1 90 test. Maintain roof slope and configuration.*

- Is the Alkali-Silica Reaction test required for aggregate locally sourced in Yakima?
  *Because we haven’t had issues with the aggregate in this region and since this isn’t historically an issue in Eastern Washington, no we do not require this test.*