

**CARSON CITY PURCHASING & CONTRACTS**  
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<http://www.carson-city.nv.us/Index.aspx?page=998>

**NOTICE TO CONTRACTORS**

**BID #0910-127**

**Project A-Production Well 4 Remodel and Piping Modifications and Project B-  
Production Well 24 Phase II Upgrades  
Labor Commissioner PWP#CC-2010-127  
Public Works Project No. 4.6021 (Well 4) and 4.0703 (Well 24)  
Engineer's Estimate: \$650,000.00**

January 6, 2010

Addendum No. 3

Please make the following additions/changes to the above referenced project.

1. The date, time and place for receiving bids remains unchanged.
2. Make the following changes in the Bid Response:  
Add the attached Document "Preformed Metal Roof Panels" to the end of the Technical Specification section of the Bid Documents. This specification shall apply to both the Well 4 and Well 24 projects.
3. Make the following changes in the Drawing Sheets:
  - 3.1 Carson City Well #4 Remodel and Piping Modifications:  
**Sheet C11/17 Roof Framing Plan and Details**
    - A. The new metal roofing shall be 24 gauge standing seam (see specification included with this addendum).
    - B. The wing walls at Well 4 shall not be utilized for support of the new roof system and shall be trimmed as required to allow sufficient space for the new roof system.
  - 3.2 Carson City Well 24 Phase II Upgrades:
    - A. **Sheet C10/22 Roof Framing Plan and Details**  
  
The new metal roofing on both structures shall be 24 gauge standing seam (see specification included with this addendum).
    - B. **Sheet L1/22 Landscape**

The quantity of rock mulch shown in the "Rock Mulch Legend" in the Plant List Table shall be changed from 1620 square feet to 1760 square feet. Rock Mulch shall be placed in all areas as identified on the plans and extend up to the existing fence and sidewalk. Disregard dash line shown 5' from fence line, as it is not a part of this drawing.

4. Clarifications:

- A. All sod shown on the landscape plan for Well 24 shall be synthetic.
- B. All existing roof components of both Well 4 and 24 are to be removed and disposed of by the Contractor. Note: all Building Department requirements for asbestos abatement.

Attachment:

## PREFORMED METAL ROOF PANELS

### PART 1 - GENERAL

#### 1 DESCRIPTION

- A. Work Included: Provide all metal roofing, backing, flashing and underlayment as required for a complete and proper installation.
- B. Documents affecting the work of this Section include, but are not necessarily limited to General Conditions, Special Conditions and Technical Specifications.
- C. Related Work:
  - 1. Roof Insulation.
  - 2. Sealants and Caulking.

#### 2 QUALITY ASSURANCE

- A. Qualifications of Installers: Use adequate number of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the work of this section.
  - 1. Installers must be acceptable to panel manufacturer and have minimum of 5 years experience.
- B. Wind-up Lift: As required by the 2006 IBC.

#### 3 REFERENCE STANDARDS

- A. American Society for Testing Materials
  - 1. ASTM A525 - Steel Sheet, Zinc Coated (Galvanized) by the Hot-Dip Process.
  - 2. ASTM D226 - Asphalt-Saturated Organic Felt.
  - 3. ASTM E1680 - Air Infiltration.
  - 4. ASTM E1646 - Water Infiltration.

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#### 4 SUBMITTALS

- A. Submit the following submittals in accordance with the Technical Specifications.
- B. Manufacturer's Data:
  - 1. Submit manufacturer's installation instructions.
- C. Shop Drawings:
  - 1. Indicate material profile, jointing pattern, jointing details, fastening methods, required backing, and flashing details. Indicate the gauges, factory coating and finish specifications. Must show detailing of all transitions to adjacent and dissimilar materials.
  - 2. The roofing manufacturer shall provide an Attachment Schedule or supporting calculations to resist the following uplift loads.
    - a. Uplift loads with a **100** mph based on a 3 second gust, exposure factor **C**.
  - 3. Drag Loading: The roof panel manufacturer shall provide an Attachment Schedule or calculations to resist drag loads induced by a snow load of **30** psf.

#### 5 PRODUCT HANDLING

- A. Protection: Use all means necessary to protect materials of this section before, during, and after installation and to protect installed work and materials of all other trades.
- B. Replacements: In the event of damage, immediately make all repairs and replacements necessary at no additional cost to the Owner.

#### 6 DELIVERY AND STORAGE

- A. Stack preformed and prefinished material to prevent twisting, bending, or abrasion and to provide ventilation.
- B. Prevent contact with materials during storage which may cause discoloration or staining.

#### 7 WARRANTY

- A. Provide a 20 year performance warranty.
- B. Contractor must provide 2 year warranty on installation of roof panels.

### PART 2 - PRODUCTS

#### 1 PREFORMED METAL ROOF PANELS

- A. Acceptable Manufacturers:

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1. AEP SPAN, Dallas, Texas [**Snap-Seam, UL-90**].
2. Approved equal.

B. Roof Panels: AEP SPAN, Design Span, Concealed Fastener System, UL 90.

1. Panel/Ribs shall be 17" wide x 1-3/4".

C. Soffit Panels: AEP SPAN, Prestige Series (R-2), Concealed Fastener System.

1. Panel shall be 12" wide x 1-1/2".

D. Mechanical Screen Panels: AEP, Box Rib, Thru Fastener Panel.

1. Panel shall be 36" wide x 1-1/2".
2. Rib spacing shall be 7-3/16" o.c.

E. Pre-coated Galvanized Steel: ASTM A525; 24 gauge core steel, shop pre-coated with Kynar 500/Hylar 5000 factory-applied finish.

1. Color: **As selected by the Owner from the manufacturer's "complete" range of colors. The Owner shall not be limited in his selection to the "standard" range of colors or specific colors based on cost category.**

F. Flashing in Conjunction with Metal Roofing: Flashing as a minimum to be same sheet material, gauge, and finish as that of metal roofing material, if not noted otherwise.

1. Flashings shall be installed in strict accordance with the recommended practice in SMACNA architectural sheet metal manual.

G. Fasteners: Galvanized steel with soft neoprene washers.

H. Underlayment: No. 30 lb. asphalt saturated roofing felt or as recommended by the manufacturer with Grace Ice and Water Shield Vycor Ultra at all eaves, rakes, valleys, ridges, hips and other roof transitions for a minimum distance of 36". [**Grace Ice and Water Shield Vycor Ultra continuous under all metal roofing and fascia.**].

I. Sealant: Sealants and Caulking as recommended by the manufacturer.

J. Panels to be **17" wide x 1-3/4"** high rib with factory applied sealant bead.

K. Provide and install all backing as required for a complete and proper installation.

## 2 OTHER MATERIALS

A. All other materials not specifically described but required for a complete and proper installation of the work of this Section, shall be as recommended by the manufacturer of the resilient materials used, and as approved by the Owner.

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## PART 3 - EXECUTION

### 3 FABRICATION

- A. Fabricate cleats and starter strips out of same material as sheet and to be inter-lockable with sheet.
- B. Unless otherwise shown on drawings or specified herein, fabricate panels in continuous one-piece lengths, and fabricate flashings and accessories in longest practicable lengths.
- C. Panels shall be factory formed. Field formed panels are not acceptable.

### 4 INSPECTION

- A. Inspect roof deck to verify deck is clean and smooth, free of depressions, waves, or projections and properly sloped to eaves.
- B. Verify that roof openings, curbs, pipes, sleeves, ducts, or vents through roof are solidly set, that cant strips and reglets are in place, and that nailing strips are located.
- C. Verify deck is dry and free of snow or ice.
- D. Do not start work until site and weather conditions are satisfactory.

### 5 INSTALLATION

- A. Execute metal work in accordance with manufacturer's instructions.
- B. Apply underlayment and ice and water shield in accordance with manufacturer's instruction, overlapping upper piece over the lower piece, but in no case will underlayment and ice and water shield be less than single layer.
- C. Lap, lock, cleat, seam, and seal all joints. Use rubber asphalt bedding compound for joints between metal and bitumen or metal and felts.
- D. Install starter and edge strips and cleats before starting installation of roofing sheets.
- E. Align joints of roofing joints.
- F. Back paint surfaces in contact with dissimilar materials.
- G. Standing seam roofing:
  - 1. Follow roof panel manufacturer's directions.
  - 2. Use sheets with standing seams 17 inches o.c. without straight run of standing seam exceeding maximum length recommended by manufacturer.
  - 3. Fold lower end of each pan under 3/4 inch. Slit fold away from corner to form tab where pan turns up to make standing seam. Fold upper end of each pan. Hook fold on lower end of upper pan into fold on upper end of underlying pan.

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4. Finish standing seams 1-3/4 inches high on flat surfaces. Fold lower ends of seams at eaves over at 45 degree angle. Terminate standing seams at ridge and hips by turning down in tapered fold.
5. Lap joints 12 inches in direction of drainage. Extend valley sheet minimum 12 inches under roofing sheets.
6. Caulk, seal and fasten so as to provide a complete weather-tight installation.

## 6 CLEANING AND PROTECTION

- A. Remove trash, debris and equipment resulting from the installation of the preformed metal roof panels.
- B. Panels or flashings that have minor and severe paint and/or substrate damage shall be replaced as directed by the Owner or his representative.

END OF SECTION

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