

## SECTION XXXX

### PANEL INTAKE SCREENS (Sample Specification)

#### PART 1. GENERAL

##### 1.1 SUMMARY

- A. Provide intake screen(s) as specified herein and as shown on the drawings.

##### 1.2 RELATED SECTIONS

- A. Section XXXX – Submittals

##### 1.3 SUBMITTALS

- A. Submit in accordance per Section XXXX.
- B. Submit shop drawings, manufactures data and literature in accordance with Section XXXX prior to manufacturing screens.
- C. Panel Screens: Submit drawings showing screen length, width, depth, slot opening, and materials of construction and assembly weight.

##### 1.3 WARRANTY

- A. Manufacturing Warranty Period: One year from acceptance and furnish owner items found to be defective within the one year period.

##### 1.4 QUALITY ASSURANCE

- A. Panel Screen: Screens shall be manufactured by an ISO 9000 Certified company, fabricated by ASME Section IX Certified welders and the manufacture shall provide evidence of experience in having supplied at least five assemblies of similar designs which have been in successful service for at least five years.

## **PART 2. PRODUCTS**

### **2.1 INTAKE SCREEN**

- A. **Manufacture:** Hendrick Screen Company, P.O. Box 22075, Owensboro, Kentucky 42304-2075, (270) 685-5138, fax (270) 685-1729.
- B. **Construction:** Panel Screen shall be of Hendrick mechanically interlocked profile bar screen construction with the specified slot opening. The profile bars shall be spaced apart with a slotted U-clip and pinned together with a continuous rivet rod. The profile bars shall have welded rectangular stainless steel support bars of appropriate size to meet the strength and deflection requirements. Similar size bars shall be used to frame the screen. The inlet slots shall widen inwardly from the screen surface to minimize the chance of debris entrapment in the screen openings.
- C. **Strength:** Screen shall withstand a differential hydrostatic pressure of **XXX** pounds per square foot or 10 feet of water differential load. Design stress when determining strength shall be two thirds of material yield strength. Strength calculations verifying compliance with these criteria shall be provided upon request.
- D. **Wire and Slot:** The surface wire shall be Hendrick Screen Co. No. B6 Profile Bar. The screen slot opening shall be **XXX** inches. The open area for this slot opening shall be **XX** %. Slot size shall be controlled and continuously monitored during manufacture. The slot openings shall have a standard deviation of no greater than 0.005 inch throughout the assembly.
- E. **Capacity:** The panel screen capacity shall be **XXX** GPM at a maximum local through slot velocity, due to water removal not to exceed 0.5 feet per second and the screen manufacturer must provide actual test for their screen. At the design flow rate, the pressure drop through the surface of the clean screen shall not exceed 0.1 psi. Hydraulic calculation verifying compliance to these criteria shall be provided upon request.
- F. **Strength:** Screen shall be capable of withstanding a differential hydrostatic pressure in excess of **XXX** pounds per square foot or a working depth of **XX** feet of water. The design stress when determining strength shall be two thirds of the yield stress. Strength calculation verifying compliance to these criteria shall be provided upon request.

**END OF SECTION**