

Diary Number: \_\_\_\_\_

Inspector Name: \_\_\_\_\_

TRACS Number: \_\_\_\_\_

Date: \_\_\_\_\_

**Division VIII: Roadside Development**  
**Title: Pump House Electrical Construction**

Pump Station Name
Route
Station
Offset
Sheet Number
Reference Number

Attribute Numbers	Compliance	Narratives	References
0.		All stakeholders have participated in the pre-activity meeting (can be combined with other pre-activity).	Recommended
1.		The contractor has submitted the name of the "Competent Person" for scaffolding.	Standard Specifications 107.08
2.		Approved work in confined spaces complies with OSHA and the contractor's approved SAFETY PLAN.	Standard Specifications 107.08
3.		All protruding reinforcing steel is guarded to eliminate the hazard of impalement.	OSHA 1926.25 (a) OSHA 1926.701 (b) Standard Specifications 107.08
4.		Construction ladders are in conformance with OSHA's specified requirements and ANSI a14.4-1979.	OSHA 1926.1051 OSHA 1926.1053 Standard Specifications 107.08
5.		All guard rails are in conformance with OSHA's specified requirements.	OSHA 1926.502 Standard Specifications 107.08
6.		All hand rails are in conformance with OSHA's specified requirements.	OSHA 1926.502 Standard Specifications 107.08

7.		All toe boards are in conformance with OSHA's specified requirements.	OSHA 1926.502 Standard Specifications 107.08
8.		Illumination of stairwells is in conformance with OSHA's minimum illumination intensities	OSHA 1926.26 OSHA 1926.56 Standard Specifications 107.08
9.		The nameplates are drilled and fastened with suitable bolts or screws, finished to match the nameplate.	Special Provisions
10.		The nameplate is mounted on the specific item or above or below the item.	Special Provisions
11.		Conduits entering the slip hole in the sheet metal box or cabinet are secured with a locknut on each side, including an insulating bushing (National Electrical Code).	National Electrical Code
12.		Exposed exterior conduits are terminated in watertight conduit hubs.	
13.		The conduit runs are straight and true with elbows, offsets and bends uniform and symmetrical.	Special Provisions
14.		Changes in the direction of the conduit runs are made with long radius bends or with conduit body type fittings and screw covers.	Special Provisions
15.		The conduit runs do not interfere with proper and safe operations of equipment and do not block or interfere with ingress or egress, including equipment removal hatches.	National Electrical Code
16.		Exposed conduits are securely fastened with clamps or straps and run on the walls and ceiling parallel to the planes of the walls and ceilings.	National Electrical Code
17.		Flexible conduits are used for short lengths required to facilitate connections between rigid conduit and equipment subject to adjustment or vibration.	Special Provisions
18.		All flexible conduits are 20 inches or less.	Special Provisions
19.		Conduits are reamed after threads have been cut to remove burrs and are re-galvanized using zinc-rich paint.	National Electrical Code
20.		Bushings or conduit fittings are used at all conduit terminals.	National Electrical Code
21.		The total of all bends in any run between outlet and outlet, fitting and fitting or outlet and fitting, does not exceed the equivalent of four 90 degree bends (360 degrees in total).	National Electrical Code
22.		Expansion fittings are installed across all expansion joints and at other locations to compensate for thermal expansion and contraction.	National Electrical Code
23.		All conduit buried underground is spaced two inches apart using nonmetallic spacers at intervals of 10 feet or less.	Special Provisions
24.		Conduit is buried a minimum of 24 inches with warning tape buried 18 inches below grade.	Special Provisions
25.		All conduit is thoroughly cleaned of water and dirt with compressed air, swabs or other approved methods prior to installation of conductors.	Special Provisions
26.		Cable runs are continuous from terminal to terminal and if spliced, are in approved terminal boxes.	Special Provisions

27.		Control and signal wiring is identified at cabinets, splicing, connections and termination points in accordance with schedules from the equipment manufacturer, contractor or as approved by the Engineer.	Special Provisions
28.		Cables entering free standing equipment compartments from below are supported near the floor with approved cable clamps and brackets.	National Electrical Code
29.		The receptacles located in wet wells are rated for Class I locations.	National Electrical Code
30.		The switches located in wet wells are rated Class I, Division I.	National Electrical Code
31.		The switches are mounted 48 inches above the finished floor.	National Electrical Code
32.		The panel board interiors are mounted on a reinforced steel back plate to facilitate support and alignment.	Special Provisions
33.		The ground bars are screwed to the enclosure.	Special Provisions
34.		A circuit directory is provided, is legible and shows panel board designation, the source from which feed originates and equipment controlled from each circuit breaker.	National Electrical Code
35.		The directory is in a protective transparent cover affixed to the panel board door.	Special Provisions
36.		A provision is made for additional breakers (spaces) so that no additional connector or extension of bussing will be required to add breakers.	Special Provisions
37.		Operational tests for all power, control and lighting equipment are performed to verify correct installation of all components.	Special Provisions
38.		A complete grounding system which permanently and effectively grounds the neutral wire of the incoming electric service is installed.	National Electrical Code
39.		Ground conductor cables are cleaned of dirt, grease, moisture and oxidations before connections are made.	National Electrical Code
40.		Metal conduit is grounded by being connected to equipment which is grounded, attached to grounded supports or by means of independent copper connections to the ground system.	National Electrical Code
41.		Grounding bushings are used to establish connections to the conduit.	National Electrical Code
42.		The grounding system test indicates that resistance to ground is 6 ohms or less.	Special Provisions
43.		Six certified copies of the field test are furnished to the Engineer.	Special Provisions
44.		The indoor and outdoor lighting systems are installed and connected as shown on the plans or as approved by the Engineer.	Special Provisions
45.		The fixtures are installed as shown on the plans, as specified in the fixture schedule.	Special Provisions
46.		The fixtures are aligned and directed as shown, to illuminate the desired area properly.	Special Provisions
47.		The fixtures are directly and rigidly mounted on their supporting structure.	National Electrical Code

48.		The lighting fixtures are grounded to the equipment grounding system with a conductor of a size not less than required by NEC.	National Electrical Code
49.		Site graded to prevent ponding and flooding.	
50.		Check weather stripping on exterior doors (sponge neoprene).	
51.		Check that fire extinguishers with gage are securely mounted.	
52.		Check condition and operation of all louvers, exhaust fans, and damper controls.	
53.		Quantlist Minimum Frequency is being followed, One per pump house.	Construction Bulletin 07-01