GENERAL NOTES

1. Exothermically welded all grounding system connections . This includes all cables, ground electrode and arrays. Do not exothermically bond grounding electrode to grounding electrode. Method of Measurement and Basis of Payment as per Standard Specifications 620.

2. Contact all utility companies prior to any underground work. The utility company are responsible for locating and identifying their facilities.

3. The contractor determines required date for the power company to install the power service at the pre-construction conference.

4. The power company reserves the right to install the riser, switch gear and weatherhead on power company poles at the expense of the contractor. Contact the power company for cost or for authorization for an alternate procedure.

5. Paint any damaged portions of galvanized steel poles and bracket arms in accordance with Standard Specifications 562.

6. Before final acceptance, contractor shall provide 2 sets of full size as built plans to the maintaining agency.

7. Route conduit pole to pole, maintaining pole setback distance from edge of pavement. Any cable routing in locations where guardrail is proposed shall be 2' in front of the standard guardrail position.

8. Where guardrail is constructed, placed poles, which are considered above ground hazard, a minimum of 5' behind the face of the guardrail.

9. Install pole foundations in accordance with Standard Specifications 715.

10. Make splices in pull boxes or the pole base, not inside the conduit. The wires at pull boxes must be long enough to remove connectors to the outside of pull boxes to make connectors accessible for changing fuses and trouble shooting the system.

11. Neutral wires to have white insulation. Do not use white or green insulated wires for ungrounded conductors.

12. Make exposed or surfaced mounted conduit out of be rigid or intermediate metal. Provide exposed runs of conduit within either expansion joints or flexible metal conduit sections adequate to take care of vibrations and thermal expansions. Ground all metal conduit. Hot-dip all steel conduit.

13. Mandrel test, clean inside and cap both ends of all conduit that remains empty as spares. Leave the corrosion resistant pull/drag wire and place pull boxes to mark the location of the ends of the conduits.

14. Located pull boxes at the end of conduits crossing roadways, and as necessary for the completion of the project.

15. These plans represent minimum acceptable criteria. The inspection per these drawings represent the minimum base of acceptance.

16. All material are Underwriters Laboratory approved, unless otherwise specified.

17. Install a pull box at each pole location. Place pull boxes at a maximum of 2' from pole unless otherwise directed by the project engineer. Ground metal pull box covers. See Standard Specifications 635.

18. At all pull boxes and pole bases, seal all ends of the conduit in accordance with Standard Specifications 630.

19. All mounting heights are ± 2'-6" unless otherwise noted in plans.

20. A handhole is required in all poles. Locate handhole on the opposite side of approaching traffic, with a cover fastened with stainless steel screws and at least 20 square inches at the opening of the handhole.

21. On joint use poles ground the luminaire and arm.

BREAKAWAY FEATURE

All ground mounted metal light poles, 50 feet in height or less, shall be mounted on a frangible metal base. The base shall shall be one piece and be designed to breakaway without the aid of any slipping or sliding surfaces. The design of the breakaway feature shall be in accordance with the breakaway performance requirements of the AASHTO 'Standard Specifications For Structural Supports For Highway Signs, Luminaires and Traffic Signals'. The contractor (supplier) shall submit copies of test reports as evidence the breakaway feature meets the above specifications and calculations to verify the design will meet the AASHTO wind loading specified in the contract plans. No poles are to be installed prior to approval of submittal data.

Poles behind bridge rail or barrier wall mounted, shall be installed on non-frangible bases.

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HIGHWAY LIGHTING GENERAL NOTES