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**Light Standard Notes:***

1. **Aluminum Alloy Shall Be 6063, T6 Temper.**

2. **Bolt Circle Shown Is for Anchor Bolt Only.** Base Pole Only.


6. **Non-Destructive Testing For Aluminum Shall Be As Follows: A Random 25% Of All Base Connection Welds Shall Be Inspected In Accordance With AWS A5.7 Standard Practice for Liquid Penetrant Inspection Method.**

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**Light Standard Foundation - Type II**

**Light Standard Foundation - Type I**

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**Cable in Duct Termination at Light Standard Base**

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**Aluminum Light Standard**

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**Specifications**

- **Aluminum Light Standard**
- **Foundation Type I**
- **Foundation Type II**

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**Diagram Details**

- **Light Standard and Foundations**
- **Welding Design and Fabrication**
- **Inspect Method**
- **Aluminum Alloy**
- **Foundation Mounting Height**
- **Base Connection Welds**
- **Liquid Penetrant Inspection**
- **Non-Destructive Testing**

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**Drawing Information**

- **Plot Date:** 12/29/2016
- **Engineer:** CONNDOT
- **Approved By:** DESIGNER/DRAFTER
- **Office of Engineering:** DEPARTMENT OF TRANSPORTATION
- **State of Connecticut**
- **Filename:** LIGHT STANDARD AND FOUNDATIONS.dgn
- **Date Issued:** 1/1/2017
CONCRETE HANDHOLE - TYPE I

12" GRAVEL OR CRUSHED STONE

12" X 6" KNOCK-OUT (TYPICAL 4 SIDES)

GRADE LINE

12" X 5" KNOCK-OUT (TYPICAL 4 SIDES)

GALVANIZED STEEL GROUNDING BUSHING

4" DRAIN PIPE - INSTALL WHERE ACCESS TO LOWER ELEVATION IS PRESENT WITHIN 25' OF HANDHOLE, OR AS DIRECTED

NOTE: 1/2" x 3" CONCRETE EXECUTIVE PLAIN STEEL PLATE - SEE DETAIL

OFFICE OF ENGINEERING
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

APPROVED BY:

CHECKED BY:

DESIGNER/DRAFTER:

DATE ISSUED: 1/1/2017

DATE: 12/29/2016

FILENAME: CONCRETE HANDHOLES.dgn
ASSEMBLY AFTER WELDING

GALVANIZE COMPLETE COVER OR WHERE INDICATED ON PLANS MEDIAN, IN PAVEMENT, IN SIDEWALK, RECESSED COVER TO BE USED IN

SEE THREADED INSERT DETAIL

COVER PLATE - SEE DETAIL

CONDUIT LENGTH AS REQUIRED

CLASS "F" CONCRETE

CONDUIT LENGTH AS REQUIRED

CLASS "F" CONCRETE

Grade line on all sides (typ.)

GALVANIZED STEEL GROUNDING BUSHING

Grade line

STEEL PLATE

SAFETY TREAD

CRUSHED STONE

WIRE TO NO. 8 BARE GROUND WIRE IN HANDHOLE.

FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO GROUNDING TAB WITH ONE HOLE LUG.

ATTACH 72" LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH ONE HOLE LUG.

NOTE:
ATTACH 1/2" LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH ONE HOLE LUG.

ATTACH 1/2" LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH ONE HOLE LUG.

CONCRETE HANDHOLE - TYPE W

RECESS TYPE COVER

OVERLAP TYPE COVER FOR CONCRETE HANDHOLE - TYPE W

PRECAST POLYMER HANDHOLE

POLYMER HANDHOLE INSTALLATION

DESIGNER/DRAFTER: CHECKED BY: PROJECT TITLE:

DRAWING TITLE:

PROJECT NO.

DRAWING NO.

SHEET NO.

REVISION DESCRIPTION DATE

OFFICE OF ENGINEERING

STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION
CABLE IN DUCT TERMINATION AT LIGHT STANDARD BASE, HANDHOLE AND CAST IRON JUNCTION BOX

BREAKAWAY FUSE CONNECTOR
TO BE USED WITH TWIN LUMINAIRE LIGHT STANDARDS (4 REQUIRED PER LIGHT STANDARD) AND UNDERGROUND LUMINAIRES

BREAKAWAY FUSE CONNECTOR
TO BE USED IN HANDHOLES AND JUNCTION BOXES

WATERTIGHT CONNECTOR
TO BE USED IN HANDHOLES AND JUNCTION BOXES

TAP CONNECTOR
TO BE USED WITHIN LUMINAIRE LIGHT STANDARDS
### UNDERBRIDGE LUMINAIRE - PENDANT MOUNTING

**State of Connecticut**

**Office of Engineering**

**Underbridge Luminaires**

**Not Scale**

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<td>UNDERBRIDGE LUMINAIRES (PENDANT)</td>
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### Notes:

1. **The contractor shall coordinate with the engineer to determine the maximum amount of movement between the bridge superstructure and the abutment. An approximate length of flexible conduit shall be installed to accommodate this movement.**

2. **Surface mounted junction box shall be paid for under item No. 151009503A. 2" rubber conduit (LFNC), 2" flexible conduit (LFNC), 2" flexible conduit ( Practically for Underbridge Lights (See Notes 2 & 4))**

3. **3/4" flexible conduit (LFNC) shall be standard wall type (0.367" wall thickness). 3/4" flexible conduit shall be extra heavy wall type (0.362" wall thickness).**

4. **If the lighting plans indicate that the electrical feed to the underbridge luminaires is to come from an adjacent concrete handhole, then the conduit mounted junction box shall be placed at the top of the cut end, with flexible conduit and fuses back to the CIJB are not to be installed.**

5. **Conduit support spacing shall not exceed 3'-0" as per N.E.C.**

6. **All mechanical anchors and mounting hardware shall be type 316 stainless steel.**

7. **Install one conduit expansion fitting every 50' of conduit length.**

8. **Before fiberglass conduit is used, cut the outside diameter of the cut end shall be widened to remove the resin glaze prior to applying anchors.**

### Typical Layout and Feed for Underbridge Luminaire, Wall or Pendant Mounted

- **Integrate electronic driver within cast aluminum insulated mounting housing.**
- **LED light source.**
- **Prismatic glass reflector.**
- **Insulating boot.**
- **Crimp type connection.**
- **Fuse holder with 10 amp fuse.**
- **Insulating boot.**
- **Line side.**
- **Fuse holder with 10 amp fuse.**
- **Crimp type connection.**
- **Insulating boot.**
- **Line side.**

**Steel Plate for Pendant Luminaire**

- **Steel plate to be attached to bridge deck using Connecticut DOT approved mechanical anchor (TYP. FOUR CORNERS). Threaded rod shall be 1/2" in diameter, Hot Dip Galvanized (Per A.S.T.M. A123).**

**Bridge Corner (Boom or Box Girder).**

- **Note:** For low clearance structures, height of luminaire bottom above roadway shall not be less than 14'-3".

**Steel Plate (see details).**

- **1/4" - 20 N.C. x 1/4" cone point set screw.**
- **1/4" x 1/4" reducer.**
- **1/4" - 20 N.C. x 1/4" g.r.a.w. k.n.c.**

**Exact Mounting Method to Be Luminaries.**

- **Direct Mount to 3/4" N.P.T. threaded fitting.**
- **Mount to 4" x 4" x 2" galvanized cast iron angle iron with 3/4" machined conduit for threaded to pendant.**
- **Mount using factory furnished gasketed sliding disconnect.**

**Luminaires Mounting Method.**

- **Luminaires mounting method shall maintain integrity rating or luminaires using stainless steel mechanical anchors.**

**Underbridge Luminaires (LED).**

- **With 7/8" wide, high contrast reflector.**

**Underbridge Luminaires (WALL MOUNTED).**

- **3/4" threaded hub.**
- **Insulated conduit within cast aluminum insulated mounting housing.**
- **90° expansion anchor with stainless steel bolt and washers.**

**Typical Layout and Feed.**

- **Integrate electronic driver within cast aluminum insulated mounting housing.**
- **LED light source.**
- **Prismatic glass reflector.**
- **Insulating boot.**
- **Crimp type connection.**
- **Fuse holder with 10 amp fuse.**
- **Insulating boot.**
- **Line side.**
- **Fuse holder with 10 amp fuse.**
- **Crimp type connection.**
- **Insulating boot.**
- **Line side.**

**Underbridge Luminaires.**

- **No Scale.**
- **Department of Transportation.**
- **Office of Engineering.**
- **12/29/2016.**
- **Filename: UNDERBRIDGE LUMINAIRES.dgn.**
- **Plotted Date: 1/1/2017.**
- **State of Connecticut.**
- **Connecticut DOT Approved Mechanical Anchor (TYP. FOUR CORNERS).**

**Diagram Details.**

- **Note:** Entrap plate assembly to be 10'-0" off galvanized 2" x 4" x 1/2" inside dimension conduit after fabrication.

- **1/4" threaded coupling.**
- **1/4" threaded coupling.**
- **1/4" dia. hole (for four luminaries).**
- **18" x 12" x 8" C.I.J.B. (Exist.) Branch Circuit connections to be made in C.I.J.B. (See Note 4).**

- **R.M.C. in structure (Exist.) Install 2 #2, 1 #8 GND. (See Note 4).**
- **#10 to split bolt connector.**
- **1" threaded coupling.**
- **1" x 4" x 2" galvanized cast iron angle iron.**
- **1/4" N.P.T. fitting.**
- **2" flexible non-metallic conduit with stainless steel mechanical anchors.**

- **Note:** ф" flexible ferrule for pendant luminaire. 2" residual conduit shall be extra heavy wall type (0.362" wall thickness). 3/4" flexible conduit shall be standard wall type (0.367" wall thickness).
**CONCRETE PAD NOTES:**

1. **Concrete Pad**
   - Pitch slab 1/4"/ft away from foundation.
   - Length of slab shall be equal to length of foundation.
   - Where adjacent slope does not accommodate slab, coordinate installation with engineer.

2. **Concrete Pad Notes**
   - **Concrete Pad:**
     - 11/2 x 12' Ground Rod
     - 2½" PVC to 1½" Schedule 80
     - 1½" Stainless Steel Unistrut (Typ.)

3. **Concrete Pad:**
   - 1½" Stainless Steel Unistrut (Typ.)

4. **Cold Sequence Meter Main:** 200A 3P 600V circuit breaker, 200A, 3P, 600V electrically operated mechanically held.

5. **CirCUIT BREAKER ACCESS:**
   - Utility company.

6. **CIRCUIT BREAKER INSTALLATION WITH ENGINEER:**
   - Accommodate slab, coordinate where adjacent slope does not accommodate slab, coordinate installation with engineer.

7. **To Cabinet & Insulated Bonding Bushings:**
   - Unistrut (Typ.)
   - 1½" Stainless Steel Unistrut (Typ.)

8. **2 HOLE BOLT (4):**
   - Galvanized anchor bolt (4).

9. **CONCRETE PAD:**
   - 2½" PVC to lights (Typ.)
   - 2½" PVC to lights (Typ.)

10. **TO INSULATED DISTRIBUTION BAR (LOAD SIDE OF CONTACTOR):**
    - Wire to insulated distribution bar.

11. **FOUNDATION CAST IN PLACE:**
    - Minimum 6" depth.
    - Concrete pad notes.

12. **3" MIN. PVC (SCHEDULE 80) TO SERVICE GUIDEBOOK (SEE NOTE #1):**
    - The serving utility company electric requirements in the latest edition of "Information & Requirements for Electric Service".

13. **UTILITY SERVICE AND METER INSTALLATION SHALL:**
    - Coordinate with engineer.

14. **SERVICE ENTRANCE AND CABINET - TYPE I:**
    - Design: D.A. (Typ.)

15. **LIGHTING CABINET:**
    - 3" RMC Nipple from Unistrut (Typ.)

16. **METER CABINET:**
    - 3" RMC nipple from Unistrut (Typ.)

17. **GRADE OR MISC. AGGREGATE:**
    - Bagged compacted to minimum 6" depth.

18. **CONCRETE PAD:**
    - Logo compacted to minimum 6" depth.

19. **3/4" BLACK PLYWOOD INSTALLED TO WALL:**
    - Thickness: .125" aluminum enclosure.

20. **LIGHTING CONTROL CABINET:**
    - Door with padlock hasp.

21. **DOOR WITH PADLOCK HASP:**
    - Utility company.

22. **CONDUIT SWEEP TOWARD TRANSFORMER:**
    - Conduit diameter with utility. Orient pole or transformer pad. Verify.

23. **SERVICE ENTRANCE & CABINET - TYPE I:**
    - Diagram.

24. **WIRING DIAGRAM:**
    - Diagram.

25. **BACK VIEW:**
    - Diagram.

26. **FRONT VIEW:**
    - Diagram.

27. **SERVICE ENTRANCE AND CABINET - TYPE I:**
    - Diagram.

28. **ISSUE DATE: 1/1/17**
    - Drawing title:

29. **DRAWING TITLE:**
    - Back view.

30. **SHEET NO.:**
    - 12/29/2016

31. **SHEET NO.:**
    - Drawings date.

32. **DRAWINGS NO.:**
    - Sheet no.

33. **REV.:**
    - Plotted date.

34. **REV.:**
    - Checked by.

35. **APPROVED BY:**
    - Checked by.

36. **DEPARTMENT OF TRANSPORTATION:**
    - State of Connecticut.

37. **OF WORK WHICH WILL BE REQUIRED:**
    - The conditions of actual quantities in no way warranted to indicate investigations by the state and is not intended to be used in connection with any purpose other than to indicate the services and work which will be required.

38. **OF TENDER:**
    - The information, including estimated quantities of work, shown on these drawings is based on limited investigations by the state and is not intended to be used in connection with any purpose other than to indicate the services and work which will be required.

39. **REVISION DESCRIPTION:**
    - Date.

40. **REVISION DESCRIPTION:**
    - Description.

41. **DRAWINGS NO.:**
    - Drawings date.

42. **REV.:**
    - Drawings date.

43. **APPROVED BY:**
    - Drawings date.

44. **DEPARTMENT OF TRANSPORTATION:**
    - State of Connecticut.

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46. **OF TENDER:**
    - The information, including estimated quantities of work, shown on these drawings is based on limited investigations by the state and is not intended to be used in connection with any purpose other than to indicate the services and work which will be required.

47. **SERVICE ENTRANCE AND CABINET**
CONDUIT BANK NOTES:
1. CONDUIT BANK INSTALLATION SHALL CONFORM TO EVERSOURCE SPECIFICATIONS AND REQUIREMENTS (DTR 73.209) OR MOST RECENT REVISION.
2. MINIMUM COVER FROM TOP OF CONDUIT BANK TO PAVEMENT OR GROUND SURFACE SHALL BE 24".
3. CONCRETE SHALL BE 2500 PSI, 1#2" MAXIMUM STONE, 6"-9" SLUMP OF SUCH CONSISTENCY THAT SPADING WILL ENSURE THE FLOW OF CONCRETE BETWEEN AND UNDER THE INDIVIDUAL DUCTS, BUT NOT SO WET AS TO FLOAT THE DUCTS. FOR TIER 3 BUILDUP CONSTRUCTION A STIFFER CONSISTENCY SHOULD BE USED.

PRECAST TRANSFORMER PAD

CONDUIT BANK CONSTRUCTION

PRECAST TRANSFORMER PAD NOTES:
1. TRANSFORMER PAD AND INSTALLATION SHALL CONFORM TO THE FOLLOWING EVERSOURCE SPECIFICATIONS AND REQUIREMENTS:
   - DTR 42.041
   - DTR 42.048
   - DTR 42.251
   - DPC 4010 & P-015
2. CONCRETE 25 WPA AT 28 DAYS, STEEL # 4 BASE, ASTM A53 GRADE 40.
**A. Conduit Connection to Existing RMC Stub-Out** (See Note 1)

**Notes:**
1. In locations where the existing exposed RMC stub-out is deteriorated to such a degree that the conduit connection cannot be properly made, the contractor has three installation options as follows:
   - Chip away non-deteriorated RMC and remove all surface rust at connection point.
   - Remove all surface rust at connection point.
   - Remove all surface rust at connection point.

2. Fiber glass conduit shall be "extra heavy" wall type with a wall thickness of 0.250".

3. Fiber glass conduit support spacing shall not exceed 3'-0" as per N.E.C. 352.30(B).

4. All conduit beam clamps and attachment hardware shall be stainless steel.

5. Install one fiber glass conduit expansion fitting every 50' of conduit length.

6. Where fiber glass conduit is field cut, the outside surface of the cut end shall be sanded to remove the resin glaze prior to applying adhesive.

7. Cost of concrete removal and concrete encasement shall be covered under the cost of the conduit.

8. Cost of core drilling into the back of a C.I.J.B. shall be covered under the trade size of PVC and fiber glass conduit unless otherwise indicated on the plans.

9. Trade size of PVC and fiber glass conduit shall be 2" unless otherwise indicated on the plans.

**B. Conduit Connection Where Existing RMC Stub-Out Is Deteriorated**

- Existing RMC stub-out is a recent installation and has a threaded end, use a non-metallic flexible conduit in concrete back to wingwall.

**C. Surface Mounted Fiber Glass Conduit**

- Surface mounted fiber glass conduit shall be 2" fiber glass conduit in trench to handhole or light standard base.
EXPANSION FITTING TYPE 2

EXPANSION FITTING TYPE 1

NOTES:

1) TYPE 1 CONDUIT EXPANSION FITTINGS SHALL BE REQUIRED AT ALL EXPANSION JOINT LOCATIONS IN CAST-IN-PLACE CONCRETE RETAINING WALLS SHARING COMMON PILE SUPPORTED FOUNDATIONS.

2) TYPE 2 CONDUIT EXPANSION FITTINGS SHALL BE REQUIRED AT ALL BRIDGE EXPANSION JOINTS. TYPE 2 CONDUIT EXPANSION FITTINGS ARE SUITABLE AT ALL BRIDGE JOINT LOCATIONS WITH TOTAL LONGITUDINAL THERMAL MOVEMENTS OF 8" OR LESS AND TRANSVERSE MOVEMENTS OF 1.5" OR LESS.

3) TYPE 2 CONDUIT EXPANSION FITTINGS SHALL BE REQUIRED AT ALL EXPANSION JOINT LOCATIONS IN CAST-IN-PLACE RETAINING WALLS WHERE THE FOUNDATION TRANSITIONS FROM A PILE SUPPORTED FOUNDATION TO A SPREAD FOOTING FOUNDATION.

4) ORIENTATION OF CONDUIT EXPANSION FITTINGS SHALL BE FIELD DETERMINED.
CONCRETE HANDHOLE IN MEDIAN

LIGHT STANDARD FOUNDATION IN MEDIAN

LIGHT STANDARD ANCHORAGE COVER

MEDIAN MOUNTED LIGHT STANDARD WITH HIGHMAST LUMINAIRE

NOTES:

1) FIBERGLASS CONDUIT (FGC) SWEEPS SHALL BE STANDARD WALL (.070" WALL THICKNESS) TYPE.
2) WELDING SHALL BE IN CONFORMANCE WITH ASTM A123.
3) FIBERGLASS CONDUIT ENTERING A CONCRETE HANDHOLE SHALL BE TERMINATED WITH A BELL END.

4) MEDIAN ELECTRICAL DETAILS - MEDIAN MOUNTED LIGHT STANDARD WITH HIGHMAST LUMINAIRE

TUBULAR ELLIPTICAL (6063-T6) ALUMINUM ARM RATED TO SUPPORT 90 lbs LUMINAIRE WITH 60 DEGREE DAMPER, INTERNAL VIBRATION DAMPER, AND TRANSFORMER BASE DOOR. TRANSFORMER BASE IN MEDIAN SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE AASHTO L.R.F.D. SPECIFICATIONS FOR STRUCTURAL CONCRETE. SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, INCLUDING THE LATEST INTERIM SPECIFICATIONS.

IMMEDIATELY ABOVE ROADWAY, MEDIAN MOUNTED LIGHT STANDARD FOUNDATION IN MEDIAN SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE AASHTO L.R.F.D. SPECIFICATIONS FOR STRUCTURAL CONCRETE. SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, INCLUDING THE LATEST INTERIM SPECIFICATIONS.

LIGHT STANDARD FOUNDATION - TYPE III

NOTE:

1) STEEL SHALL CONFORM TO ASTM A38 AND SHALL BE GALLVANIZED AFTER FABRICATION IN CONFORMANCE WITH ASTM A123.
2) WELDING SHALL BE IN CONFORMANCE WITH THE MOST CURRENT AWS REQUIREMENTS.
NOTES:

1) FIBERGLASS CONDUIT (FGC) located in granular fill between median barriers shall be standard wall (0.230” wall thickness) Type. Surface mounted fiberglass conduit shall be extra heavy wall (0.250” wall thickness) type.

2) Fiberglass conduit in median fill shall have interference joints permanently bonded with adhesive. Surface mounted fiberglass conduit shall have straight socket joints permanently bonded with adhesive.

3) Fiberglass conduit stub-ups shall be terminated with a slip-fit cap with no adhesive.

4) Fiberglass conduit entering a concrete handhole shall be terminated with a bell end. Fiberglass conduit entering a junction box shall be terminated with a bell end and fiberglass conduit shall be permanently bonded with adhesive.

5) Fiberglass conduit expansion joints shall provide 8” of overall expansion.

6) All light standard foundations and concrete handholes shall be surrounded by a 1/2” x 1/2” joint of type “A” joint sealer.

7) A pull-line shall be installed in all conduits (except stub-ups and stub-downs). Pull-lines entering light standard foundations shall be tied off to the foundation anchor bolts.

8) Where fiberglass conduit is field cut, the outside surface of the cut end shall be sanded to remove the resin glaze prior to applying adhesive.

CONCRETE HANDHOLE - TYPE III IN MEDIAN

MEDIAN BARRIER AT OVERPASS - CONDUIT LAYOUT

MEDIAN BARRIER AT UNDERPASS - CONDUIT LAYOUT
180° RED NAVIGATION LIGHT (PENDANT MOUNTED)

- Stainless steel swing arm bracket (typical). Swing arm shall be equipped with flexible rubber waterproof conduit supplied by light manufacturer. Length as per manufacturer for the given load.
- GE Cool LED optics 360° green or Weatherhead typical.
- Polycarbonate lens.
- UV stabilized polycarbonate housing.
- 1 1/4" Trans. Cap.
- Aluminum slip-fitter for 2" O.D. pipe.
- 180° red navigation light (pendant mounted)

NOTES:
1) Flexible rubber conduit shall be "extra heavy" wall type with a wall thickness of 0.250".
2) Conduit support spacing shall not exceed 3'-0" as per N.E.C. 352.30(B).
3) All mechanical anchors and mounting hardware shall be Type 316 Stainless Steel.
4) Install one conduit expansion fitting every 50' of conduit length.
5) Where fiberglass conduit is field-cut, the outside surface of the cut-end shall be sanded to remove the resin glaze prior to applying adhesive.
6) The Contractor shall ensure that the installed navigation light is completely accessible, including access to the lift chain and latch plate, and that when raised the navigation light is accessible from sidewalk or road surface.
1. DETAILS APPLY TO LOCATIONS WITH PIPE CLEARANCE OF LESS THAN 69" FROM PAVED MEDIAN SURFACE.

2. ALL STEEL REINFORCEMENT TO BE EPOXY COATED AND SHALL BE ASTM A615 GRADE 60.

4. THE C OF THE LIGHT STANDARD FOUNDATION STEM NEED NOT MATCH THE C OF THE PIPE, BUT SHALL BE PLACED IN CENTER OF CONCRETE BARRIER.

5. EDGE OF LIGHT STANDARD FOUNDATION STEM CANNOT EXCEED BEYOND LIGHT STANDARD FOUNDATION BASE, IF NECESSARY ENLARGE THE LIGHT STANDARD FOUNDATION BASE.

6. THE LENGTH OF THE LIGHT STANDARD FOUNDATION BASE SHALL EQUAL THE WIDTH OF LIGHT STANDARD FOUNDATION BASE.

7. WHERE SUFFICIENT CLEARANCE ABOVE EXISTING DRAINAGE PIPE ALLOWS FOR THE INSTALLATION OF PRECAST LIGHT STANDARD FOUNDATION (TYPE I), THE 12' GROUND ROD SHALL BE INSTALLED IN THE GROUND ROD SLEEVE PRIOR TO PLACEMENT OF THE FOUNDATION IN THE MEDIAN. THE GROUND ROD SHALL BE BENT NO CIRCUMSTANCES SHALL THE GROUND ROD BE DRIVEN WHEN THERE IS DRAINAGE PIPE PRESENT UNDER THE MEDIAN.

CONSTRUCTION NOTES:

1. DETAILS APPLY TO LOCATIONS WITH PIPE CLEARANCE OF LESS THAN 69" FROM PAVED MEDIAN SURFACE.

2. ALL STEEL REINFORCEMENT TO BE EPOXY COATED AND SHALL BE ASTM A615 GRADE 60.

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