

2) Reinforcing Steel shall be ASTM A615 Grade 60 ksi.

Handhole Cover

Stainless Steel Screws

Threaded Bars/Studs

Nut Covers

Caps

- 3) Concrete shall be Class I▼ (Drilled Shaft) with a minimum 28-day compressive strength of 4,000 psi for all environmental classifications.
- 4) Grout shall have a minimum 28-day compressive strength of 5,000 psi and shall meet the requirements of Section 934.

ASTM B209 -> ASTM B26 (319-F)

-> ASTM A36 or ASTM A307

-> AISI Type 3I6

- 5) All welding shall conform to American Welding Society Structural Welding Code (Steel) ANSI/AWS DIJ (current edition).
- 6) All steel Items shall be galvanized as follows:

All Nuts, Bolts, Washers and Threaded Bars/Studs

-> ASTM AI53 Class C or D depending on size

-> ASTM AIOII Grade 50, 55, 60 or 65 ksi -> ASTM AlOII Grade 50, 55, 60 or 65 ksi or

All other steel items -> ASTM AI23 (including Pole & Mast Arm)

- 7) Locate handhole 180° from arm on single arm poles or 180° from first arm of double arm poles or see special instructions on Mast Arm Tabulation Sheet.
- 8) Except for Anchor Bolts, all bolt hole diameters shall be equal to the bolt diameter plus 1/16", prior to galvanizing. Hole diameters for Anchor Bolts shall not exceed the bolt diameter plus $\frac{1}{2}$ ".

- 12) If a Mast Arm damping device is required by the Engineer, it shall be installed within eight feet of the Mast Arm tip.
- 13) Alternate Designs for Special Mast Arm Assemblies are not allowed.
- 14) Provide "J"-Hook at top of pole for signal cable support.
- 15) First and Second Arm Camber Angle = 2°.
- 16) Details for the Ground Rod, Signal and Sign Locations, Signal Head attachment, Sign Attachment, Pedestrian Head Attachment, and Foundation Conduit are not shown for clarity.
- 17) Manufactuers seeking approval of a steel mastarm assembly for inclusion on the Qualified Products List must submit a QPL Product Evaluation Application alona with design documentation and drawings showing the product meets all specified requirements of this Index and Index 17743.
- 18) If a grout pad is not installed, baseplates shall be secured with double nuts both above and below the baseplate. The locking nuts shall be half-height nuts. The standoff distance (the distance between the bottom of the full-height leveling nut and the top of the foundation) shall not exceed one anchor bolt diameter. In rural areas, the top of the foundation should be greater than 12" above finished grade. A vertically placed wire cloth screen between the baseplate and the top of the foundation shall be wrapped horizontally around the baseplate with a 3" min. lap. The wire cloth shall be galvanized steel standard grade plain weave 2x2 mesh 0.063" dia.wire. The screen shall be attached to the baseplate with stainless steel self-tapping 1/4" screws with stainless steel washers spaced at 9" centers.

ELEVATION VIEW

(Single Arm Shown, Double Arm Similar) (Luminaire Arm Not Shown)

TYPICAL ELEVATION AND NOTES

fabrication of Pole.



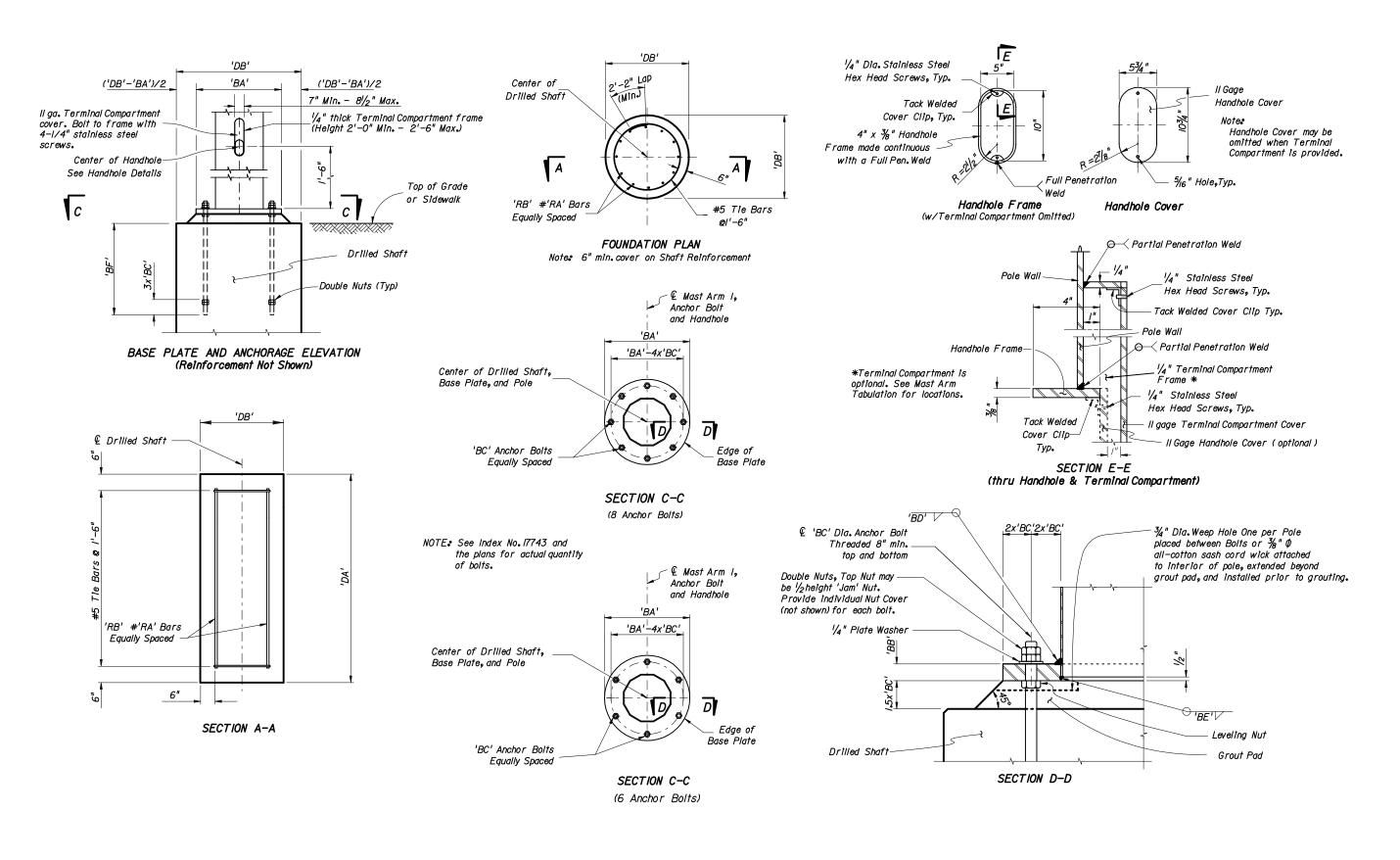
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Drilled Shaft

MAST ARM ASSEMBLIES

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TYPICAL FOUNDATION AND BASE PLATE DETAILS

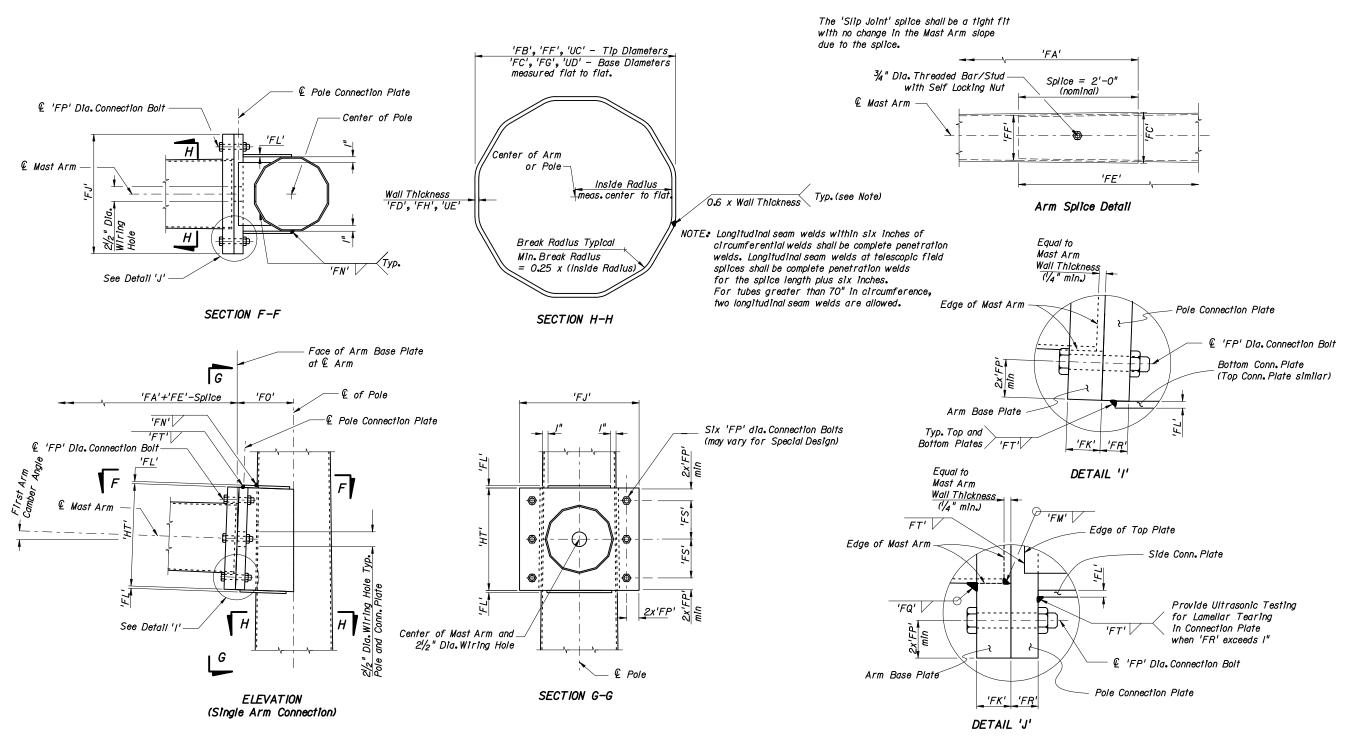


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MAST ARM ASSEMBLIES

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NOTE:

I. Details shown on this sheet are for 12 sided pole sections. However, sections with more than 12 sides and round sections are permitted provided outside diameter and wall thickness are not reduced.

2. Mast Arm and Connection Plates shall be match marked to ensure proper assembly.

TYPICAL SINGLE ARM CONNECTION DETAILS

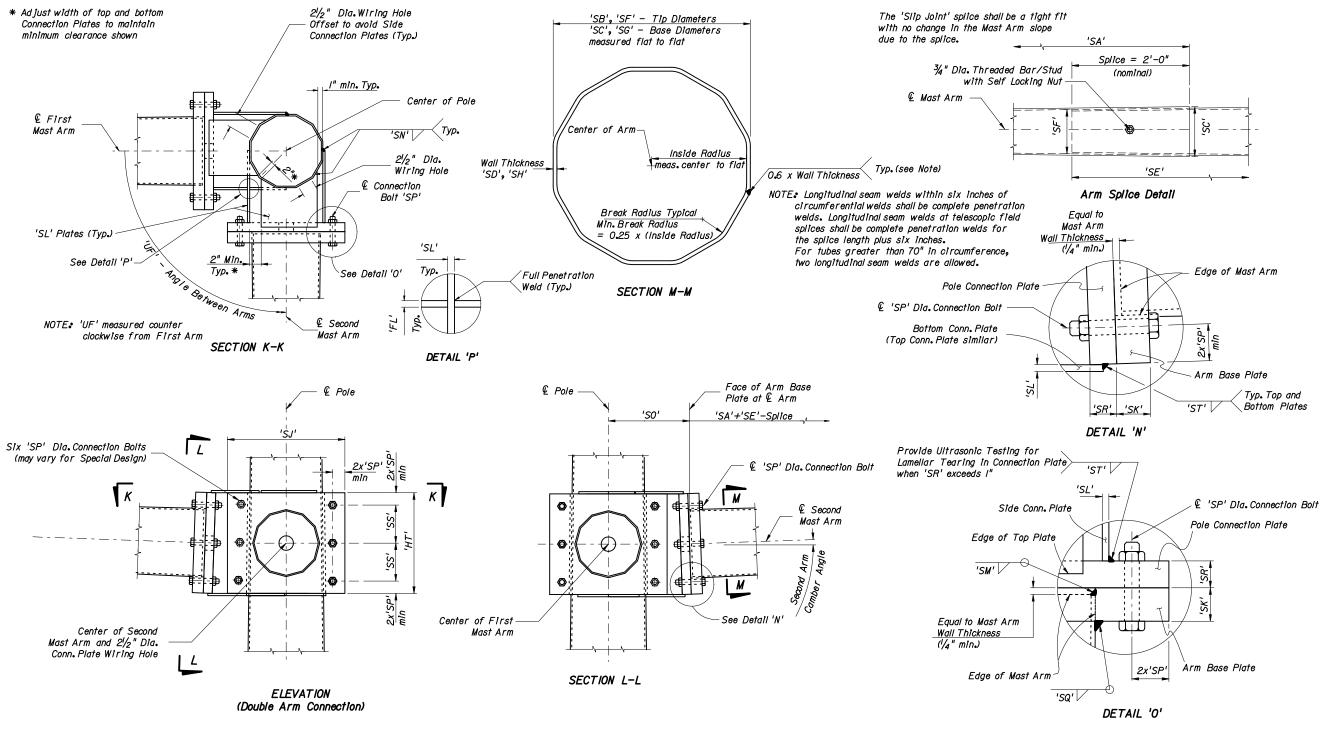


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MAST ARM ASSEMBLIES

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NOTE: I. Details shown on this sheet are for I2 sided pole sections. However, sections with more than I2 sides and round sections are permitted provided outside diameter and wall thickness are not reduced. 2. Mast Arm and Connection Plates shall be match marked to ensure proper assembly.

TYPICAL DOUBLE ARM CONNECTION DETAILS

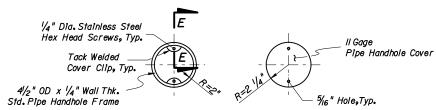


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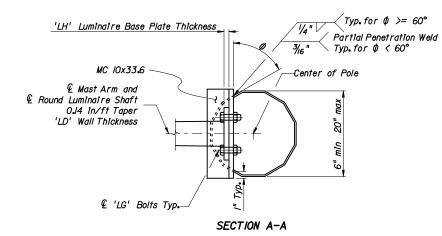
MAST ARM ASSEMBLIES

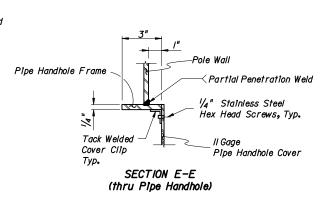
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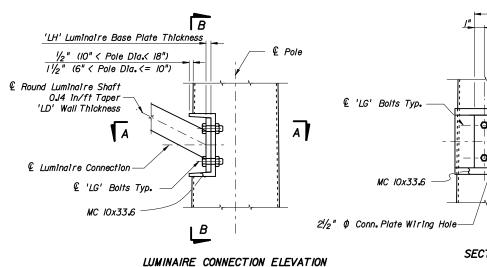
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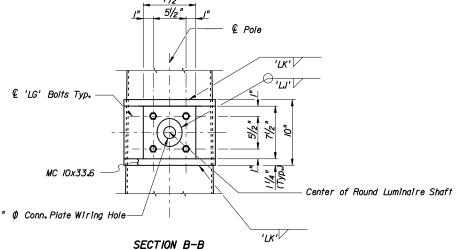


Pipe Handhole Frame Pipe Handhole Cover







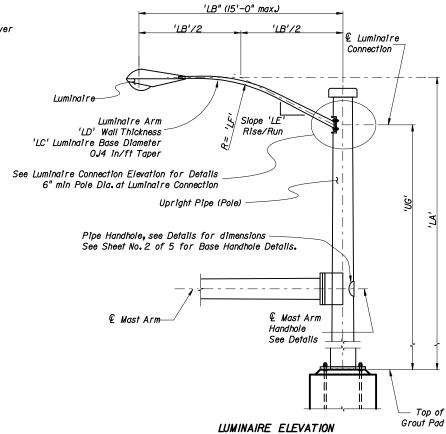


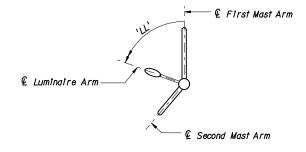
NOTE: The Pole shown on this sheet is a 12 sided section. However, sections with more than 12 sides and round sections are permitted provided outside diameter and wall thickness are not reduced

NOTE: The Fabricator may substitute a ½" thick bent plate with the same flange width, height, and length as the MC l0x33.6 Channel section.

NOTES.

- I. Luminaire type and Luminaire to Arm Connection Details can be found elsewhere.
- 2. Align Luminaire Arm with single Mast Arm or first Arm of Double Mast Arm unless indicated otherwise in plans.





LUMINAIRE ORIENTATION

TYPICAL LUMINAIRE ARM AND CONNECTION DETAILS



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