Mast Arm Assemblies General Notes:

1. Signal Structure Water Pipe shall be as follows:
   - Poles & Mast Arms: ASTM A501, Grade 50, 55, 60 or 65 times three 1/4" wall.
   - ASTM A516, Grade 50, 55, 60 or 65 1/2" wall.
   - ASTM A506, Grade A, 5 mils yield or Grade B, 60 ksi yield.
   - Sluice Pipe: ASTM A506, Grade 36 or ASTM A36.
   - Mast Cover: SD-3604.
   - Anchors: ASTM A525 Type I.
   - Nut: ASTM F-754 Grade 55.
   - nuts for chain: ASTM A506 Grade A.
   - Washers for anchor: ASTM F-436 Type I.
   - Hardware Frame: ASTM A506 Grade 50 or ASTM A36.
   - Hardware Cover: ASTM A506 Grade 50, 55, 60 or 65 ksi.
   - Caps: ASTM A506 Grade 50, 55, 60 or 65 ksi.
   - Nut Cover: ASTM B690.
   - Steel: ASTM A506 or ASTM A36.

2. Reinforcing Steel shall be ASTM A65-56, Grade 60 ksi.

3. Concrete shall be Class II/G (Light Steel) 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 steel shall meet the requirements of Section 92A.

5. All welding shall conform to American Welding Society Structural Welding Code (Steel) AWS/D1.1 (Current edition).

6. All steel items shall be galvanized on tolerance.
   - All Nuts, Bolts, Washers and
   - Threaded Bars/Shafts, depending on size.
   - All other steel items: ASTM A525.

7. Loops hanger wire shall be installed on arm on single arm poles or 2" from first arm of double arm poles or see special instructions on Mast Arm Installation Sheet.

8. Except for anchor bolts, all hole dimensions shall be equal to the bolt diameter plus 1/4", plus 1/2" in diameter. Hole diameters for anchor bolts shall not exceed the bolt diameter plus 1/2".

Mast Arm Assemblies:

- Fastening Arm Base Plate at End Arm.
- Vertical Arm Cap with 1/2" Stainless Steel Set Screws.
- Mast Arm Splitter (if necessary) See Sheet 3 of 5 (single arm) or Sheet 4 of 5 (double arm).
- Base Plate Connection See Sheet 2 of 5 (single arm) or Sheet 4 of 5 (double arm).
- Flange in ST Bar, Typ.
- Mast Arm Extension.

Typical Elevation and Notes:

- Elevation View:
  - Single Arm Steel, Double Arm Steel.
  - Mast Arm Assemblies.

- Notation:
  - Contravention shall verify this dimension prior to fabrication of pole.
TYPICAL FOUNDATION AND BASE PLATE DETAILS
The "Slip Joint" splices shall be a tight fit with no change in the mast arm slope due to the splices.

NOTES: Longitudinal seam welds within six inches of circumferential welds shall be complete penetration welds. Longitudinal seam welds at transverse field splices shall be complete penetration welds for the splice length plus six inches.

SECTION F-F

SECTION H-H

SECTION G-G

DETIAL 1

TYPICAL SINGLE ARM CONNECTION DETAILS
**Typical Double Arm Connection Details**

NOTE:
1. 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 diameters and wall thicknesses are not reduced.
2. Mast Arm and Connection Plates shall be match marked to ensure proper assembly.
TYPICAL LUMINAIRE ARM AND CONNECTION DETAILS

NOTES:
1. 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.

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NOTE: The Poles shown on this sheet is a 10-sided section. However, sections with more than 10 sides or round sections are permitted provided outside diameter and wall thickness are not reduced.

NOTE: The Fabricator may substitute a 1/2" thick bent joint with the same forging width, height, and length as the MC 10x336 Channel section.