This Class Was Gary’s Plan to Improve the Process
1) Addenda
2) Proposal form
3) Special provisions (White Pages)
   a. A list is included for all Standard Plan numbers that are applicable to that contract.
4) Contract plans
5) Amendments to standard specifications (Pink Pages)
6) Standard specifications (8 - 20) (9 - 29)
   a. 8-20.1(1) “Regulations and Code” includes NEC.
7) Standard plans (J)
CONTACTS

1. Electrical Inspector
2. Maintenance / Signal Division / ITS
3. Regional Traffic Engineer
4. Fabrication Inspector
5. Headquarters Bridge and Materials Laboratory
6. Serving Utility, Vendors, Manufacturer’s Representatives and Utility Engineer
Materials Documents

1. Record of Materials
2. RAM and QPL
   a. Preliminary Samples
3. Catalog Cuts
4. Shop Drawings
5. Fabrication Inspection
6. Plant Certifications and Mix design
7. Review Salvaged, Abandoned, As Ordered
1. Traffic Control Plan
2. Pollution Control Plan
3. Schedule
Foundations

- 8-20.4
- 9-29.6(5)
3 Bolt Template
SLIP/ANCHOR PLATES DETAIL
Smooth finish top, bottom, and notched surfaces.

POLE BASE PLATE
Smooth finish top, bottom, and notched surfaces.

PLATE WASHER

1/8" back-up strip

SECTION B-B

1/8" hole

SECTION A-A

1/8" hole

ANCHOR PLATE

SLIP PLATE

STRAP TEMPLATE ASSEMBLY DETAIL
Place over anchor bolts (See Note 1).

KEEPS PLATE
Place between pole base plate and slip plate on top of model washer.
Corrugated Tube/Wet Hole
Luminaire Foundation
Styrofoam Form for Sump in Top of Base

Remember that forming materials have to be removed entirely.
Base Poured Styrofoam Removed

Supplemental ground is the bare number 6 wire.
Concrete Vibrator

5-05.3(7) and 6-02.3(9)
Luminaire
Base / Barrier

FEB 24 2005
Bridge “El” Bolts
Bridge El

Working Clearances at Hand Hole
NEC Table 110.26(A)(1)
0 – 150 volts = 900mm clearance
151 – 600 volts = 1M clearance
NOTES:
1. See Standard Plan C-6b for base plate and foundation requirements.
2. Round and smooth all edges along wireway to protect conductors.
   See Standard Plan C-6b for wiring details.
3. The top of the anchor rod shall be both threaded and galvanized a minimum of 12". The bottom of the anchor rod shall be threaded to a minimum of 28". Galvanizing shall be in accordance with AASHTO M274 after threading. Hooked anchor bolts are not allowed.
4. Strap templates shall be held in place by nuts 6" from the top of the foundation, and at bottom of anchor bolts resting on 4" x 3" square washers.
5. Pole base plate for a slip base design shall be 2½" AASHTO M223 or 3½". Pole base plate for a fixed base design may be either 1½" AASHTO M223 or 2½" AASHTO M223.
6. Installation of a 5½' pole with double mast arms on a slip base is not allowed.
Light Base (Slip Base)
FOUNDATION DETAIL
(See Note 1)
Extend a Base
High Mast Shaft and Top Form
High Mast Bolts and Top Cage
Drilling a Sign Base
Augured Hole
Rebar Cage and Bolts
Check the Grade
Ready for the First Pour
Use a Tremie for Deep Pours
Another Tremie
Strain Pole Bolts & Bottom Nut
43 Foot Deep Signal Base
Set Up Deep Base
Pouring Deep Base
Set up to Pour Pad Foundations
Steel Couplings at Foundation Surface
Pad Foundation for Multiple Cabinets
Steel Coupling Flush With Surface

- Each cabinet should have a drain tube
- A supplemental ground should be connected to the rebar and routed the Transformer Cabinet Ground
No Steel Coupling
Poor Placement
Spare Conduits
Need Coupling
Flush With
Surface and Steel Plug
Keep Ground Tile Far Enough in That the Corners Will Not Break off
Removal of Forms

• 6-02.3(17)N

• Forms shall be removed whether above or below ground level.