



- Notes:
1. Foundation soil properties are based on 57.6 pcf effective unit weight and  $\phi=35^\circ$  friction angle.
  2. Min. concrete compressive strength: 3500 psi @ 28 days
  3. Reinforcing: ASTM A615 Grade 60
  4. Cast foundation against undisturbed earth or within a permanent steel casing.
  5. Install conduit per Owner specification.
  6. Extend foundation 4" above ground when in earth. Construct foundation flush when in concrete island or sidewalk.
  7. The design of the foundation follows VTrans MREI 10-01.
  8. Construct foundation in accordance with the current edition of the VTrans Standard Specifications for Construction.
  9. Refer to the plans prepared by VTrans (Project No. STPG SGNL(40)) for the location of underground utilities.
  10. Design Factors of Safety:
    - 10.1. Overturning: 3.0
    - 10.2. Bearing Capacity: 3.0
    - 10.3. Torsion: 1.1

Concrete Foundation Data					
Foundation ID	Diameter	Depth	Long. Bars	Tie Spacing	Concrete Vol. (CY)
Pole 1 - 55ft Arm	3'-6"	13'-0"	16-#6	1'-0"	5.7
Pole 2 - 35 ft Arm	3'-6"	10'-0"	16-#6	1'-0"	4.6
Pole 3 - 55 ft Arm	3'-6"	13'-0"	16-#6	1'-0"	5.7
Pole 4 - 40 ft Arm	3'-6"	11'-0"	16-#6	1'-0"	5.0

SECTION A-A

**Traffic Pole Foundation Design**  
**Intersection of VT Route 62 and Airport Rd/Fisher Rd**

PROJECT: 15034  
 DATE: 2015-06-18  
 DRAWN: DSW

EX-1

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