



- Notes:
1. Foundation soil properties are based on unit weights and friction angles provided by VTrans – refer to design calculations for details.
  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. NH 2944(I)) 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)
MAP-1 : 55ft & 35ft Arm with 12' Luminaire Arm	4'-0"	15'-0"	22-#6	1'-0"	8.0
MAP-2 : 35ft Arm	3'-6"	9'-6"	16-#6	1'-0"	4.4
MAP-3 : 30ft Arm	3'-6"	10'-0"	16-#6	1'-0"	4.6

SECTION A-A

**Traffic Pole Foundation Design  
Intersection of US Route 2 and  
North/South Brownell Road**

PROJECT: 17052  
DATE: 2017-09-13, REVISED 2017-10-02  
DRAWN: DSW

S-2

**CCE CROSS**  
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