

Attachment 2 Specification for Non-Structural Concrete Work

Requirements for constructing accessible concrete bases for kiosks:

- All kiosks will be constructed using concrete bases, must be accessible to persons with disabilities, and must be constructed using the specifications below, provided by the Engineering Office.
- The concrete base may be completed via contract or force account. If contracting the work, remember construction over \$2,000 must be done by CGS.
- Four options for accessible parking lot configurations tied to your kiosk are included for your use (see attachment 2). Choose the option that best fits the needs of your site. Concrete pads cannot be smaller than the options provided; however, they may be larger if needed or desired. Concrete pad thickness should be no less than 6 inches if large RV's or buses will be accessing the kiosk.
- Additional information regarding the ADA and ABA Accessibility Guidelines may be found at <http://www.access-board.gov/ada-aba/final.htm>

Concrete: The concrete slab should be constructed using Type I-II or Type II Portland cement conforming to ASTM C-150 guidelines. Concrete compressive strength should be 3,000 pounds per square inch at 28 days. Concrete slump at the point of placement should be 4 inches plus or minus 1 inch. A minimum of 517 pounds of Portland cement per cubic yard should be used. The finished concrete slab should have a minimum thickness of 4 inches (6 inches for large RV or bus use) with vehicle wheel traffic kept off to allow 45 days of curing.

Admixtures: If available, Portland cement should be replaced with between 15 to 20 percent of Type F or Type C fly ash conforming to ASTM C618 guidelines. Use air-entraining admixture at the manufacturer's prescribed rate having air content equal to 4 to 6 percent of volume. Aggregate should consist of fine (3/8 inch minus natural sand) and coarse (3/4 inch minus crushed stone or gravel) material both conforming to ASTM C-33 guidelines. Use #3 reinforcing steel, Grade 60 meeting ASTM A615 requirements, free of rust, dirt, mud or any other foreign substances. The reinforcing steel should be placed in the middle of the concrete slab vertically and spaced 12 inches on center in both directions horizontally. To ensure that the reinforcing steel remains in the middle of the slab, reinforcing steel shall be placed on plastic support chairs. The water cement ratio should not exceed 6 gallons per sack of Portland cement including water in the aggregate.

Attachment 2