

06040 Cast in Place Overhead Sign Bases**Index**

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06040-1 General**1.1 Description**

The Contractor, unless otherwise specified, shall provide all labour, plant, equipment and material together with all proper and required facilities for the construction in an expeditious and workmanlike manner of cast-in-place concrete sign bases and other related work all in accordance with these specifications and accompanying plans.

1.2 Related Work Elsewhere

Ready Mixed Concrete: Section 06005.

06040-2 Materials

All materials used for the sign base construction shall be approved by the Engineer.

Reinforcing bars must be deformed bars of the dimensions shown on the drawings. It must be clean and free from defects, kinks, loose rust or mill scale at the time the concrete is placed. Any coatings of hardened concrete are to be removed from the steel.

Bar reinforcing must meet C.S.A. G30.12, deformed bars; grade 400 for all bars except ties may be grade 300.

06040-3 Equipment

All tools, machinery, plant and equipment used in handling materials and executing any part of the work, shall be subject to the approval of the Engineer. All such equipment shall be maintained in efficient working order and where any of the machinery, plant or equipment is found to be unsatisfactory, it shall be improved or replaced by the Contractor to the satisfaction of the Engineer.

06040-4 Execution

The City of Saskatoon will carry out the necessary survey work to provide sign base locations and elevations.

The Contractor shall sawcut the asphalt surface or concrete sidewalk (where necessary) to provide a smooth, well defined limit at the surface of the excavation. All

underlying material shall be removed to the depth and limits set out in the drawings or specified by the Engineer. The sides and floor of the excavation shall be hand shaped to provide smooth, true vertical surfaces to act as the concrete form. The Contractor shall ensure that sufficient clearance is provided between the reinforcing bars and the excavation walls and floor.

The Contractor shall supply, place and secure the reinforcing steel assemblies in the excavation. The anchor rods, which form part of each assembly will be supplied by the Owner. They shall be placed and maintained by the Contractor in correct vertical and horizontal alignment. Tolerances shall be ± 10 mm in horizontal location and ± 6 mm in vertical elevation. Failure to meet these tolerances will result in the Contractor, at his own expense, removing and reconstructing the concrete sign base.

Prior to concrete placement, the Contractor shall place the required plastic pipe and electrical ground rod as per the plans or Engineer's direction. The ground rod wire leading to the top of the base through the 50mm plastic pipe shall also be installed. Care must be taken to ensure that the ends of the plastic duct are not plugged with concrete during pouring. The ground rod assembly will be supplied by the Owner.

The Engineer shall be informed upon completion of setting the rebar cage and anchor bolts and prior to concrete placement so as an inspection can be carried out.

The Contractor shall supply and place 30.0MPa, Type 5 (sulfate resistant) concrete for the bases. If required, calcium chloride may be added to prevent freezing; the amount not to exceed 2%.

The Contractor shall properly vibrate the concrete during placing to prevent voids. The upper surface shall be placed flush with the surrounding asphalt or concrete surface. The exposed surfaces shall be trowelled smooth then given a fine brushed finish. The Contractor shall spray all exposed concrete surfaces with Tri-Cote (or approved equal) concrete curing compound.

During freezing weather, the Contractor shall cover each base with an insulating material for a period of 7 days to prevent the concrete from freezing.

06040-5 Utilities Clearance

Before starting any construction or excavation, the Contractor shall be responsible for determining, at his expense, the actual location and elevation of all sewer, water and gas mains or lines, electric light, power, telephone or telecommunications, duct or other such structures or utilities which may exist in the area of the proposed work.

The Contractor shall be responsible for notifying the respective utility at least 48 hours in advance of his intention to carry out operations in the vicinity of the said utility and if required, shall pay for any services supplied for locating of these utilities.

Where construction is required over or adjacent to other services, the method of construction used shall be agreeable to the Engineer and the Utility Authorities concerned.

The Contractor shall be responsible for any damage to existing buried or overhead services resulting from the failure of the Contractor to obtain appropriate clearances or take appropriate precautions when working in the presence of existing services.

06040-6 Maintenance of Site Conditions

During construction, the Contractor shall keep the construction site properly signed and as neat and tidy as possible for the safety of the general public. Where, in the opinion of the Engineer, the Contractor fails to provide proper site maintenance, he shall clean up the site before any additional work is done.

Before leaving the job site, the Contractor shall ensure that all surfaces involving trenching or excavating are restored to their original condition.

The Contractor shall remove any excess material and ensure the construction area is left neat and tidy.

In addition, the Contractor shall furnish the City of Saskatoon with one set of plans suitably marked to show the as built layout for all underground construction.

06040-7 Measurement and Payment

Payment for the construction of the required concrete sign bases will be on a lump sum basis for the price stipulated. This price shall be full compensation for saw cutting,

excavation and disposal of underlying material, supply and placing rebar and concrete, placing anchor bolts, ground rods and plastic pipe and maintaining and cleaning the site.

End of Specification 06040