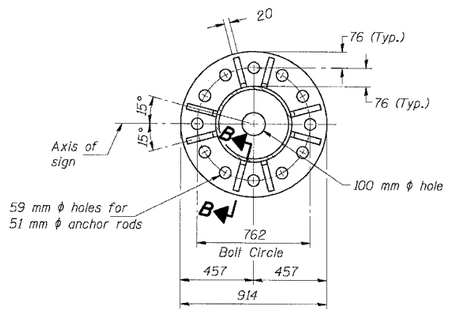
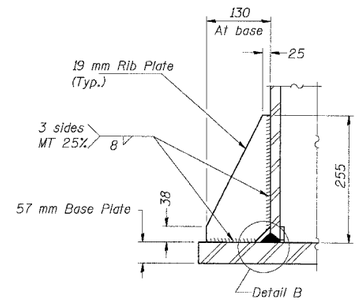
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	*	COOK	631	331
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

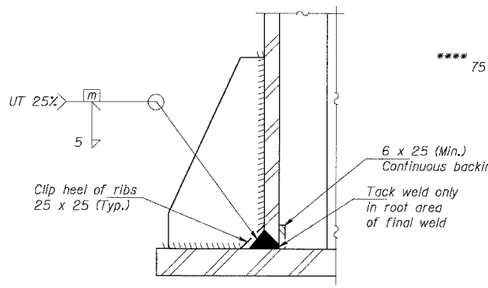
* (2425 & 2626) R-2 CONTRACT NO. 62111



SECTION A-A

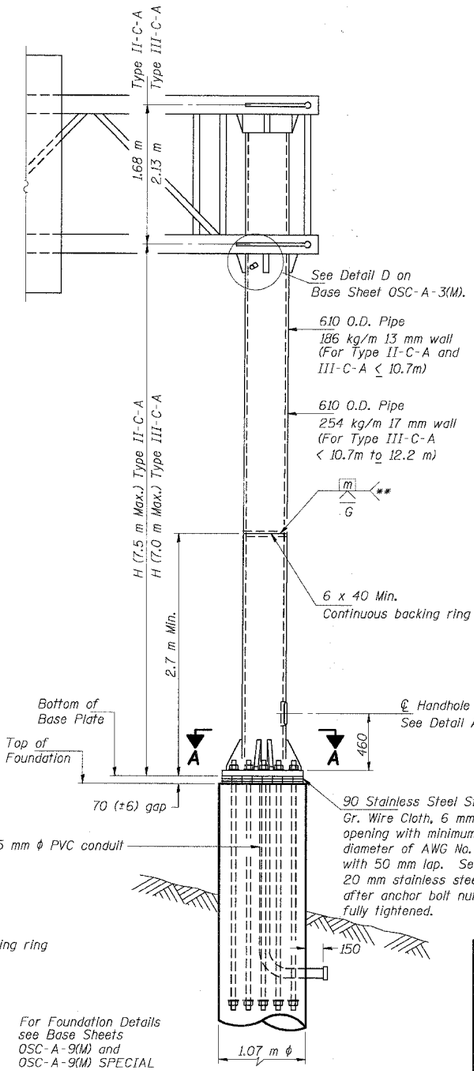


SECTION B-B

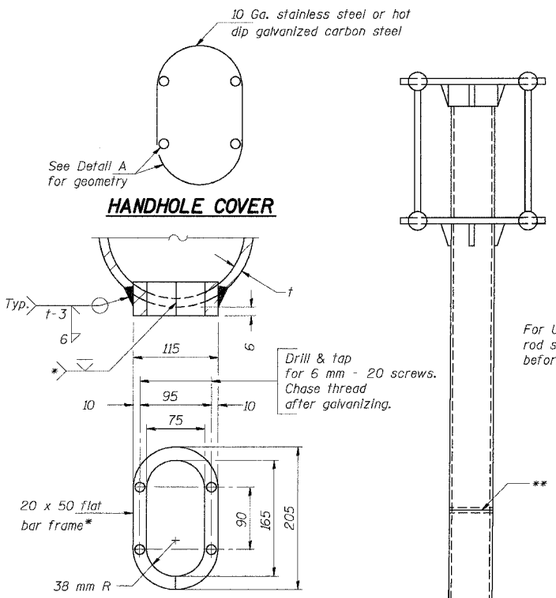


DETAIL B

(Typical rib)



FRONT ELEVATION



HANDHOLE COVER

Provide 205 x 115 cover.
Outside corners = 57 mm radius.
Provide 4- 8 mm ϕ holes in cover for 6 mm - 20 round head hot dip galvanized or stainless steel machine screws.
(See cover details)

DETAIL A

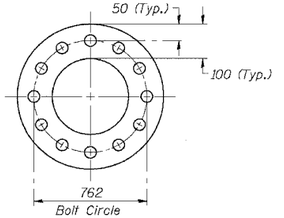
*Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 50 mm plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 12.7 µm or less.

**Butt welded joint in post is only allowed for post heights (H) over 6.10 m in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

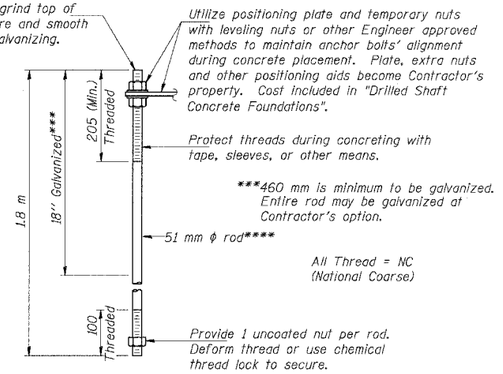
SIDE ELEVATION

Structure Number	Station	H
****IC0161080L162.1	5+658.000	5.85 m
****IC0161080L162.3	6+100.000	6.0 m

****Anchor rods, positioning plate, and PVC conduit for Structure Numbers IC0161080L162.1 and IC0161080L162.3 to be furnished and installed by others in a previous contract 62110.



****SUGGESTED POSITIONING PLATE



****ANCHOR ROD DETAIL

Anchor rods shall conform to AASHTO M314 Grade 380 (55) and meet Charpy V-Notch (CVN) energy of 20 J at - 12 ° C. before galvanizing. Galvanize the upper 460 mm (minimum***) and associated M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide an unfinished nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 270 N-m minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, using a straight beam, 13 mm ϕ 3.5 mhz. transducer, to insure no rejectable flaws exist in the upper 460 mm (tension criteria). Cost of testing included in "Drilled Shaft Concrete Foundations".

OSC-A-5(M) SPECIAL 11/1/2002

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)
EB & WB INSIDE LANES (MAINLINE) CONSTRUCTION
COOK COUNTY

CANTILEVER SIGN STRUCTURES TYPE II-C-A & III-C-A TRUSS SUPPORT ALUMINUM TRUSS & STEEL POST

SCALE:
DATE: 7/18/2005
DRAWN BY: NK
CHECKED BY: VCP

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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