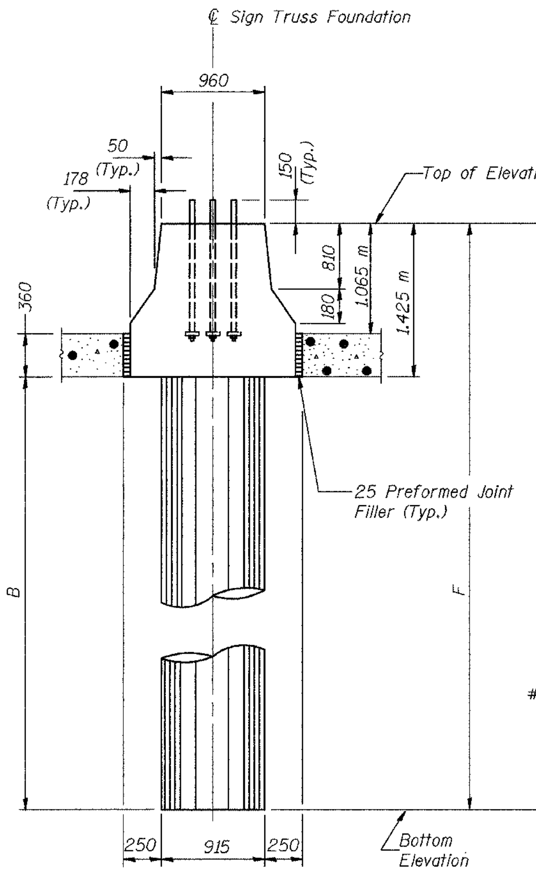
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALL DIMENSIONS IN MILLIMETERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

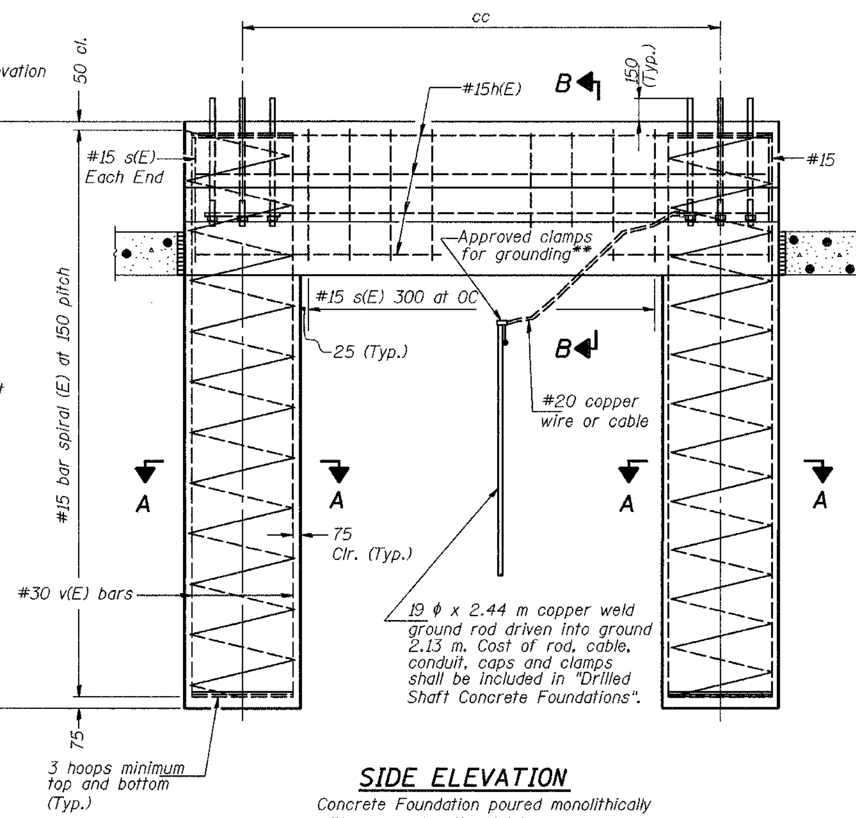
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	404
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 62114 INDOT DES. NO. 0100987

** Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

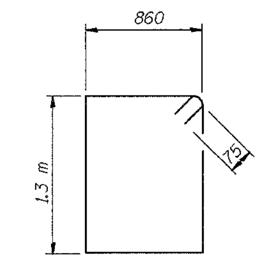


END VIEW

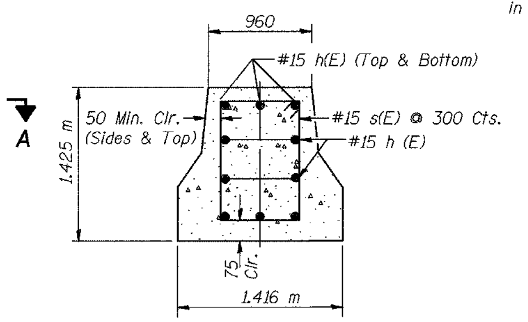


SIDE ELEVATION

Concrete Foundation poured monolithically with no construction joint.



Bar s(E)



SECTION B-B

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 120 kPa, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 305 by the Contractor, ''as-built'' plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

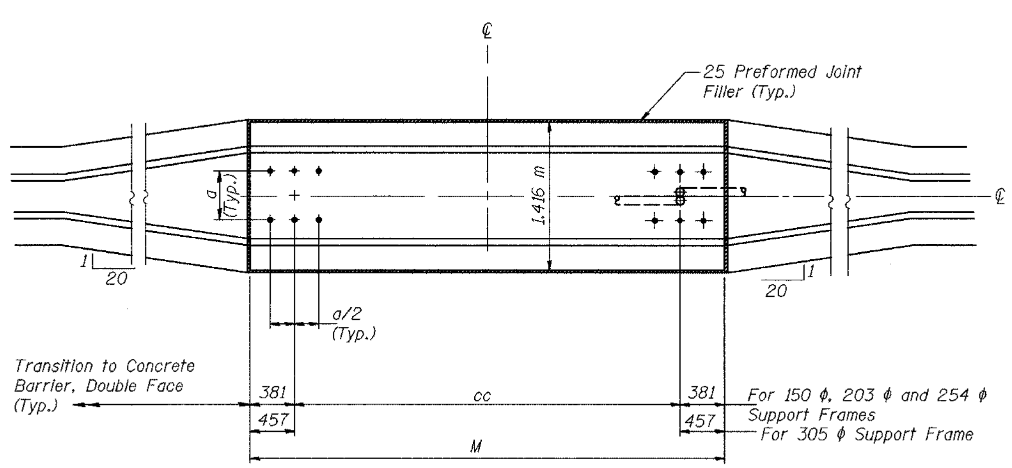
A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 150 below finished ground line. Cost included in ''Drilled Shaft Concrete Foundation''.

At caissons extending into granular soil or at locations where the underground water extends within a sand layer, a temporary casing should be required. At water locations, the temporary casing should extend down to the top of clay layer and sealed at least 150mm into the cohesive soil.
ALL WORK AND MATERIALS SHALL BE INCLUDED FOR PAYMENT UNDER "DRILLED SHAFT CONCRETE FOUNDATIONS".

BAR LIST - EACH FOUNDATION

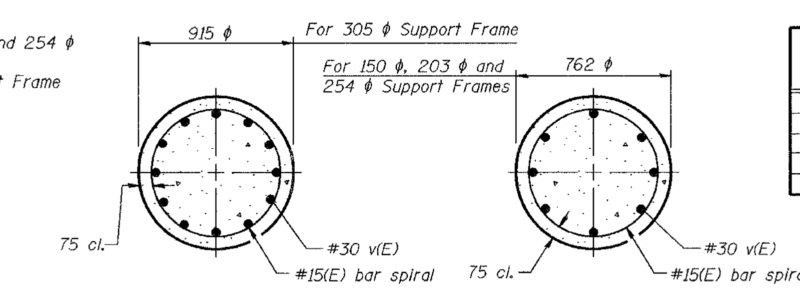
Bar	Number	Size	Length	Shape
h(E)	10	#15	M less 100	——
s(E)	Varies	#15	4.470 m	□
v(E)	16	#30	F less 127	—— 150 ϕ, 203 ϕ and 254 ϕ Support Frame
v(E)	24	#30	F less 127	—— 305 ϕ Support Frame
#15(E) bar spiral see Side Elevation				

Structure Number	Station	Left Foundation				~~Right Foundation~~				Class SI Concrete (Cu. m)
		Elevation Top *	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
1S016I080L162.9	6+951.478	188.905	177.052	10.428	11.853					14.6
1S016I080R163.1	7+239.540	184.865	175.465	7.975	9.400					12.4
1S016I080L163.1	7+312.695	184.638	174.638	8.575	10.000					12.9
1S016I080L163.5	7+948.045	184.969	175.479	8.065	9.490					16.5



PLAN

Conduit in foundation is incidental to "Drilled Shaft Concrete Foundation" for sign structures pay item.



SECTION A-A

Pipe Support Frames	cc	M	a	a/2
150 ϕ	2.13 m	2.90 m	275	140
203 ϕ	2.29 m	3.05 m	343	171
254 ϕ	2.52 m	3.28 m	381	191
305 ϕ	2.75 m	3.66 m	457	229

DESIGNED	BPS
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41

ILLINOIS SIGN STRUCTURE FOUNDATION DETAILS

SCALE NTS DRAWN BY ACE/CAD
DATE 07/05 CHECKED BY

AMERICAN CONSULTING ENGINEERS