

**NOTES:**  
 The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength ( $Q_u$ ) of at least 1.25 tsf, 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 12" 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 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

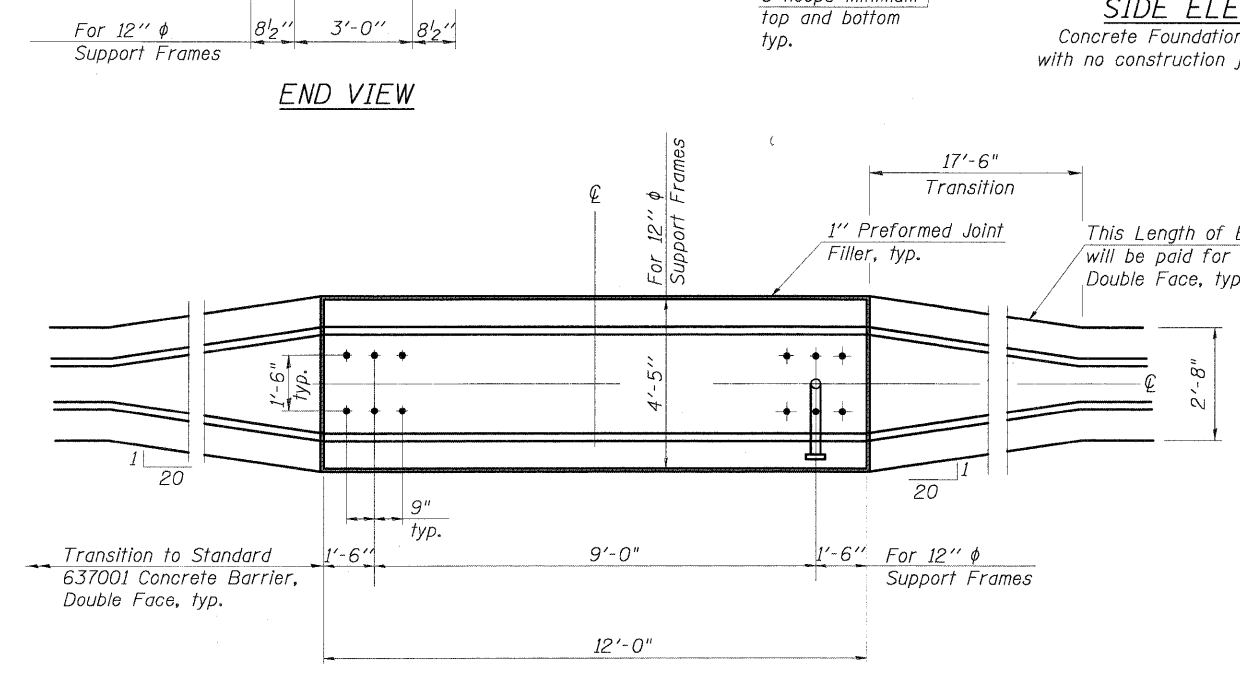
**BAR LIST - EACH FOUNDATION**

Pipe Support Frames	cc	M	a	a/2
6"φ	7'-0"	9'-6"	0'-11"	5'-1"
8"φ	7'-8"	10'-0"	1'-12"	6'-4"
10"φ	8'-3"	11'-3"	1'-3"	7'-2"
12"φ	9'-0"	12'-0"	1'-6"	9"

Bar	Number	Size	Length	Shape
h(E)	10	#5	M less 4"	—
s(E)	Varies	#5	Varies	□
v(E)	16	#9	F less 0'-5"	—
v(E)	24	#9	F less 0'-5"	—
#4(E) bar spiral - see Side Elevation				

6" φ and 8" φ Support Frame  
 10" φ and 12" φ Support Frame

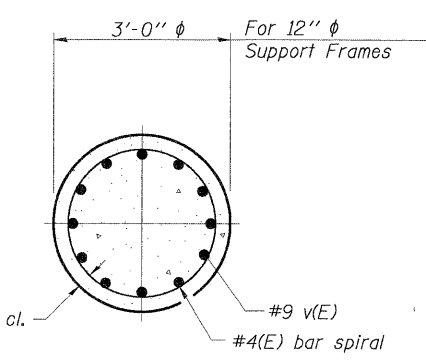
**END VIEW**



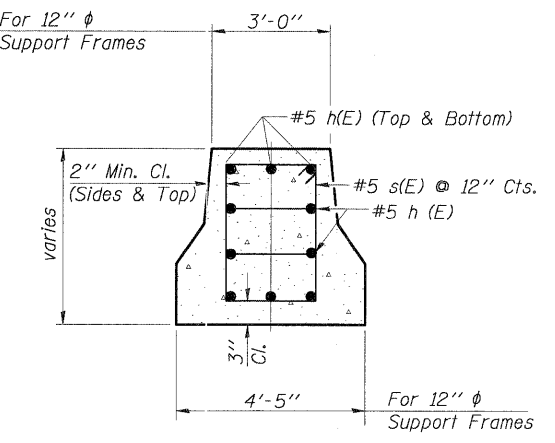
**SIDE ELEVATION**

Concrete Foundation poured monolithically with no construction joint.

All dimensions in parenthesis are for 42" high barrier.



**SECTION A-A**



**SECTION B-B**

Structure Number	Station	Left Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	
IS099I080L020.9	1010+00 WB 180	728.73	706.21	18'-0"	22'-6 1/4"	16.9
IS099I080R022.2	1080+00 EB 180	699.34	676.82	18'-0"	22'-6 1/4"	16.9

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**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 800  
 Rosemont, Illinois 60018  
 (847) 823-0500

USER NAME = PRAZALAN	DESIGNED - JMB	REVISED -
PLOT SCALE = 1"	DRAWN - PDR	REVISED -
PLOT DATE = 12/23/2010	CHECKED - MM	REVISED -
	DATE - 12/23/2010	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. 80 FOR NS RAILROAD TO US 45  
 OVERHEAD SIGN STRUCTURES  
 MEDIAN SUPPORT FOUNDATION DETAILS**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE. 80	SECTION 99 (5&S-1) Y-1	COUNTY WILL	TOTAL SHEETS 188	SHEET NO. 188
CONTRACT NO. 60M59			ILLINOIS FED. AID PROJECT	