



ISOMETRIC

PIPE SUPPORT PIER FOR DRY LAND CROSSING								
PIPE DIAMETER	STEM DIAMETER " D"	STEM HEIGHT " H"	STEM REINF. BARS " A"	FOOTING SIZE		STEM CONC. VOL. / VERT. FT. CU. YARDS	STEM STEEL WT./ VERT. FT. POUNDS	FOOTING CONC. VOL. CU. YARDS
				"W"	"L"			
8" TO 10"	2'-6"	1'-3'	10 #4	4'-0"	1'-6"	0.18	6.68	0.89
		4'-6'	10 #5	5'-0"	2'-0"		10.43	1.85
		7'-9'	10 #5	6'-0"	2'-0"		10.43	2.67
12" TO 16"	3'-0"	10'-12'	10 #6	7'-0"	2'-6"	0.26	15.02	4.54
		1'-3'	10 #4	5'-0"	1'-6"		6.68	1.39
		4'-6'	10 #5	6'-0"	2'-0"		10.43	2.67
18" TO 24"	3'-6"	7'-9'	10 #6	7'-0"	2'-6"	0.36	15.02	4.54
		10'-12'	10 #8	8'-0"	2'-6"		26.70	5.92
		1'-3'	14 #5	6'-0"	2'-0"		14.60	2.67
		4'-6'	14 #6	7'-0"	2'-6"		21.06	4.54
		7'-9'	14 #6	8'-0"	3'-0"		21.03	7.11
		10'-12'	14 #8	9'-0"	3'-0"		37.38	9.00

NOTES:

1. MINIMUM SOIL BEARING CAPACITY REQUIRED = 3,000 PSF. ENGINEER SHALL INSPECT ALL FOOTINGS PRIOR TO PLACEMENT OF CONCRETE.
2. CONCRETE – 3,000 PSI @ 28 DAYS.
3. REINFORCING STEEL – ASTM A615, GRADE 60
4. PIPE FOR AERIAL CROSSINGS SHALL BE DUCTILE IRON WITH MECHANICAL OR FLANGED JOINTS.
5. FOR STEM HEIGHTS OR PIPE DIAMETERS GREATER THAN LISTED IN ABOVE TABLE, PIER DESIGN TO BE FURNISHED BY LICENSED PROFESSIONAL ENGINEER.

DWG. NO.

5.08.2

PIPE SUPPORT PIER
FOR DRY LAND CROSSING

REVISIONS

DATE	BY	DESCRIPTION
2020	TCZ	NEW DETAIL
8/24/22	BGM	CHANGE FONT, TITLE BLOCK

