



PIPE DIA. "D" (IN.)	"H" (FT.)	THICKNESS "A" (IN.)	PIER WIDTH "B" (FT.)	FOOTING LENGTH "C" (FT.)	FOOTING WIDTH "D" (FT.)
6-12	≤6	12	2'-4"	5'-6"	3'-0"
	8	12	2'-4"	6'-3"	3'-0"
	10	12	2'-4"	6'-8"	3'-0"
	12	12	2'-4"	7'-2"	3'-0"
14-20	≤6	12	3'-0"	8'-0"	3'-0"
	8	12	3'-0"	9'-0"	3'-0"
	10	12	3'-0"	9'-10"	3'-0"
	12	14	3'-0"	10'-6"	3'-0"
22-28	≤6	14	3'-8"	8'-9"	4'-0"
	8	14	3'-8"	10'-0"	4'-0"
	10	14	3'-8"	11'-0"	4'-0"
	12	14	3'-8"	11'-10"	4'-0"
30-36	≤6	18	4'-4"	9'-0"	4'-0"
	8	18	4'-4"	10'-6"	4'-0"
	10	18	4'-4"	11'-6"	4'-0"
	12	18	4'-4"	12'-4"	4'-0"
38-48	≤6	18	5'-4"	9'-6"	5'-0"
	8	18	5'-4"	11'-0"	5'-0"
	10	18	5'-4"	12'-0"	5'-0"
	12	18	5'-4"	12'-10"	5'-0"
51-56	≤6	18	6'-4"	9'-10"	5'-0"
	8	18	6'-4"	11'-4"	5'-0"
	10	18	6'-4"	12'-4"	5'-0"
	12	18	6'-4"	13'-2"	5'-0"

**NOTES:**

- SHALLOW FOUNDATION DESIGN SHOWN ON THIS DETAIL IS BASED ON THE FOLLOWING PARAMETERS:  
 ALLOWABLE SOIL BEARING CAPACITY = 2000 PSF  
 CONCRETE COMPRESSIVE STRENGTH = 4000 PSI  
 GRADE 60 REINFORCING STEEL  
 MAXIMUM STREAM VELOCITY = 10 FT/SEC  
 MAXIMUM SUPPORT HEIGHT (H) = 12'-0"  
 IF FIELD CONDITIONS REQUIRE ANY DEVIATION FROM THESE PARAMETERS, ENGINEER SHALL SUBMIT A PROJECT-SPECIFIC FOUNDATION DESIGN FOR GREER CPW'S REVIEW
- IF SUBGRADE AT LOCATION OF SUPPORTS IS DEEMED UNABLE TO WITHSTAND 2000 PSF BEARING PRESSURE, ENGINEER SHALL SUBMIT A PILE SUPPORTED FOUNDATION DESIGN, OR APPROVED ALTERNATIVE, FOR GREER CPW'S REVIEW
- IF BEDROCK IS ENCOUNTERED WHICH WILL PREVENT 3-FEET MINIMUM COVER OVER FOOTING, ENGINEER TO SUBMIT DESIGN, OR APPROVED ALTERNATIVE, FOR GREER CPW'S REVIEW
- TWELVE-INCH AND FOURTEEN-INCH THICK PIERS AND FOOTINGS SHALL BE REINFORCED WITH #5 BARS AT 12 INCHES OC IN EACH DIRECTION ON EACH FACE. EIGHTEEN-INCH WIDE PIERS AND FOOTINGS SHALL BE REINFORCED WITH #7 BARS AT 12 INCHES OC IN EACH DIRECTION ON EACH FACE.
- EIGHTEEN-INCH THICK PIERS SHALL REQUIRE TWO STRAPS OVER THE PIPE INSTEAD OF ONE (AS SHOWN).
- CONCRETE SUPPORTS SHALL NOT BE LOCATED WITHIN A STREAM WITHOUT APPROVAL OF GREER CPW AND THE APPROPRIATE REGULATORY AGENCIES.

**GREER COMMISSION OF PUBLIC WORKS  
PRECAST CONCRETE PIER DETAIL**

APPROVED BY:  --		DATE: <b>FEBRUARY 2021</b>	DRAWING NO.  WW-21
SCALE:  NTS		REVISED:  --	