



#### 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.

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"

## GREER COMMISSION OF PUBLIC WORKS PRECAST CONCRETE PIER DETAIL

APPROVED BY:

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SCALE:

NTS



DATE:

FEBRUARY 2021

REVISED:

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DRAWING NO.

WW-21