## PILE SUPPORTED PIER DETAIL

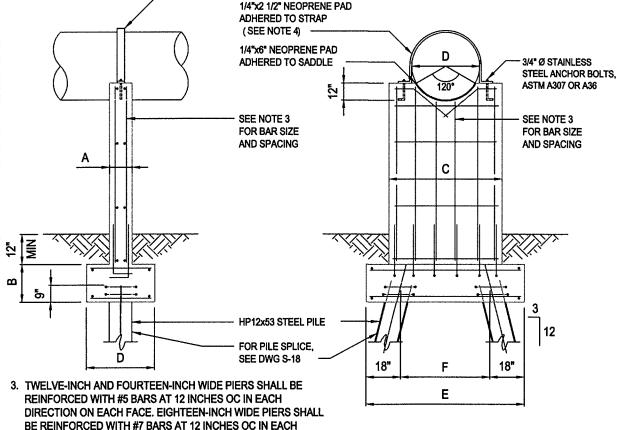
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CASING	PIER	FOOTING	PIER	FOOTING	FOOTING	PILE
PIPE DIA.	THICKNESS	THICKNESS	WIDTH	WIDTH	LENGTH	SPACING
"D" (IN.)	"A" (IN.)	"B" (IN.)	"C" (FT.)	"D" (FT.)	"E" (FT.)	"F" (FT.)
6-12	12	20	2'-4"	3'-0"	6'-0"	3'-0"
14-20	12	20	3'-0"	3'-0"	8'-0"	5'-0"
22-28	18	26	3'-8"	4'-0"	8'-9"	5'-9"
30-36	18	26	4'-4"	4'-0"	9'-0"	6'-0"
38-48	18	26	5'-4"	5'-0"	9'-6"	6'-6"
51-60	18	26	6'-4"	5'-0"	9'-10"	6'-10"

## NOTES:

- PILE SUPPORTED PIER FOUNDATION DESIGN SHOWN ON THIS DETAIL IS BASED ON THE FOLLOWING PARAMETERS: MINIMUM CAPACITY OF HP12x53 PILE = 30 TONS
  - MINIMUM CAPACITY OF HP12x53 PILE = 30 TONS CONCRETE COMPRESSIVE STRENGTH = 4000 PSI GRADE 60 REINFORCING STEEL MAXIMUM STREAM VELOCITY = 10 FT/SEC

IF FIELD CONDITIONS REQUIRE ANY DEVIATION FROM THESE PARAMETERS, THE FOUNDATION DESIGN SHALL BE REVIEWED BY THE ENGINEER.

2. LENGTH OF PILES SHALL BE AS REQUIRED TO DEVELOP 30 TON CAPACITY BY EITHER END BEARING, FRICTION OR A COMBINATION OF END BEARING AND FRICTION. AS A MINIMUM, PILES SHALL BE DRIVEN AT LEAST 15 FEET INTO UNDISTURBED SOIL.



1/4"x3" GALV. STRAP WITH

- 4. EIGHTEEN-INCH WIDE PIERS SHALL REQUIRE TWO STRAPS OVER THE PIPE INSTEAD OF ONE (AS SHOWN).
- WHEN CONCRETE SUPPORTS ARE REQUIRED TO BE LOCATED WITHIN A STREAM AND ARE NOT COVERED WITH BACKFILL, SEE STD. DWG. 4.30 FOR MODIFICATIONS TO UPSTREAM FACE OF SUPPORT.

DIRECTION ON EACH FACE. FOOTINGS SHALL BE REINFORCED

## **AERIAL PIPE CROSSING (SHEET 5 OF 8)**

TYPICALLY TO PIERS.

REVISIONS NO DATE DESCRIPTION	CITY OF ROCKY MOUNT	APPROVED _	<b>STD. NO.</b> 4.28
	DEPT. OF ENGINEERING	<b>DATE</b> 04-22-04	REVISION