

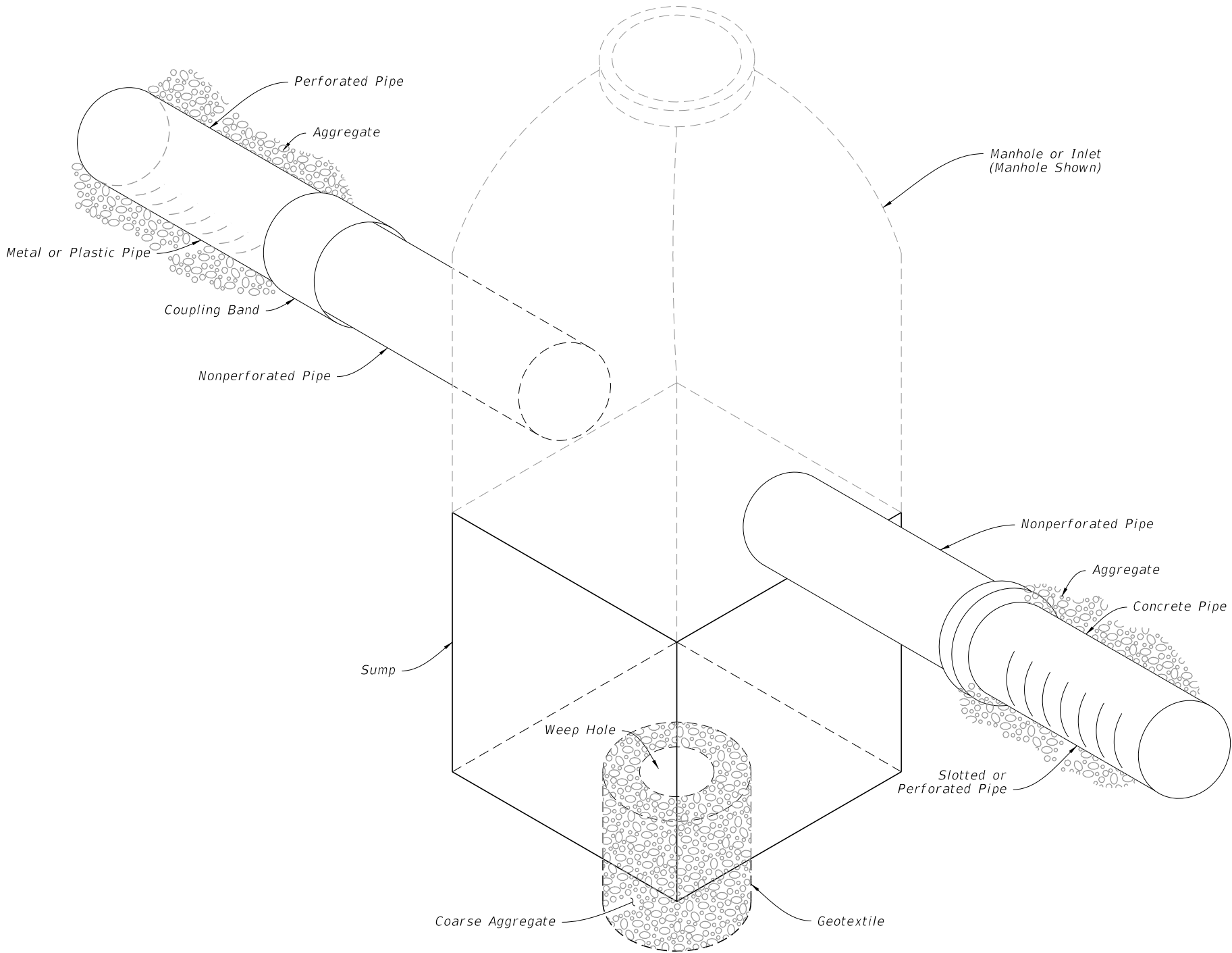
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GENERAL NOTES:

- 1. Place concrete pipe with the slots positioned on sides.
- 2. Alignment joints are standard (gaskets not required). Recorrugation of metal pipe ends not required.
- 3. Install Type D-3 geotextile in accordance with Specification 514. Lap all geotextile joints a minimum of one (1) foot.
- 4. Construct the standard cross section unless other section(s) described or detailed in the plans.
- 5. See Index 430-001 for supplemental details.
- 6. Take the necessary precautions to prevent contamination of the trench with sand, silt and foreign materials.

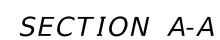
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2	French Drain System
3	Concrete Slotted Pipe Options



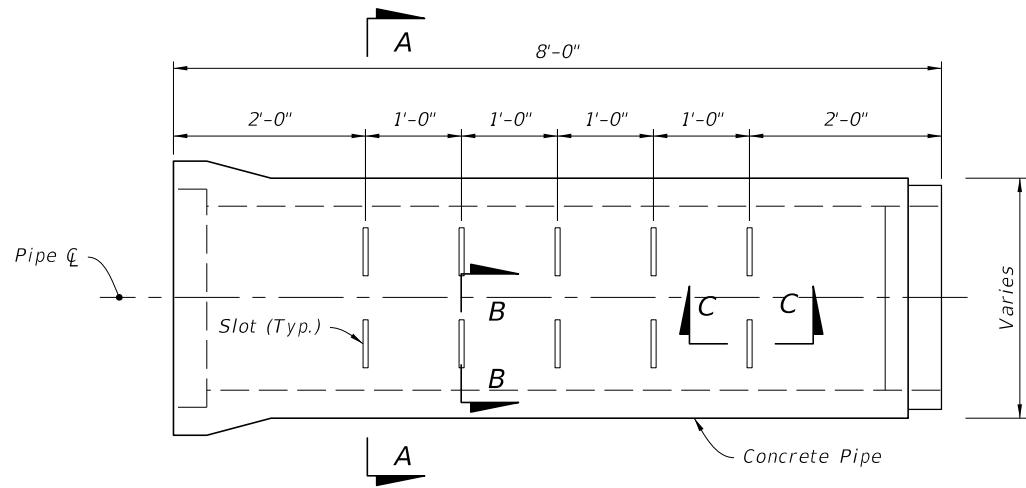
FRENCH DRAIN ASSEMBLY

1. *Construct sumps unless excluded in the Plans.*
2. *For additional sump bottom information see Index 425-001.*
3. *Construct weep holes only where called for in the Plans.*
4. *Only cast and ductile iron sanitary sewer, or cast iron, ductile and steel water mains will be allowed to pass directly through french drain (without sleeve).*
5. *Use only steel, cast or ductile iron sleeves.*
6. *No slots or perforations.*

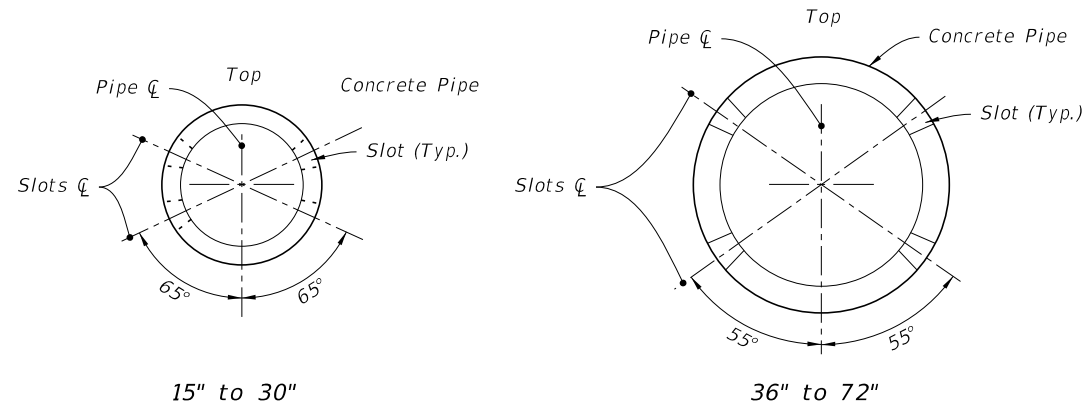


— CONCRETE PIPE —

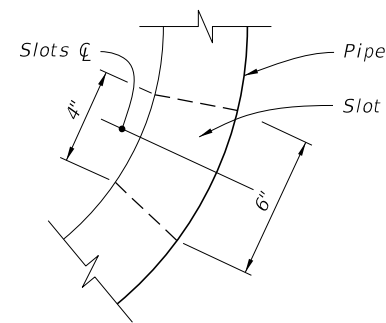
LAST REVISION 11/01/23	DESCRIPTION: FY 2027-28 STANDARD PLANS	FRENCH DRAIN	INDEX 443-001	SHEET 2 of 3
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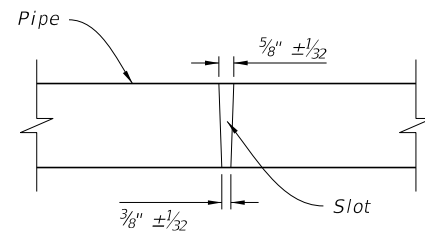
SIDE VIEW



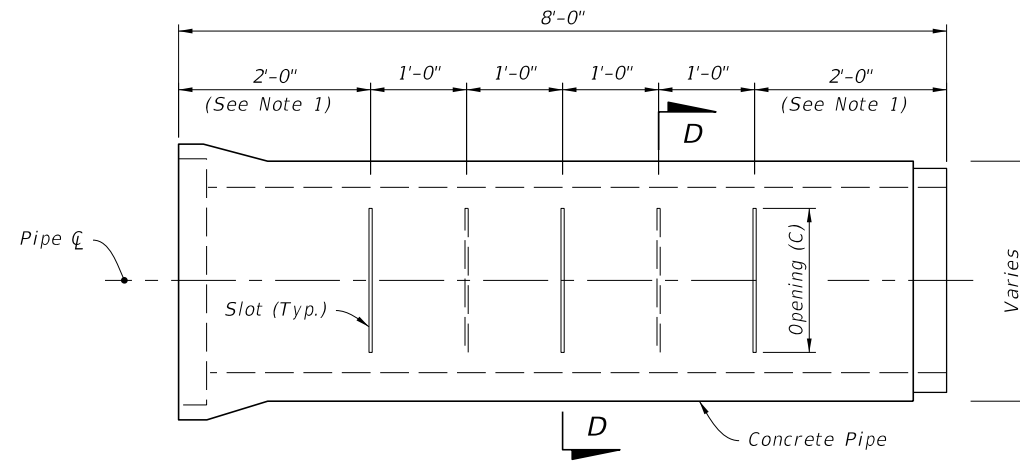
SECTION A-A



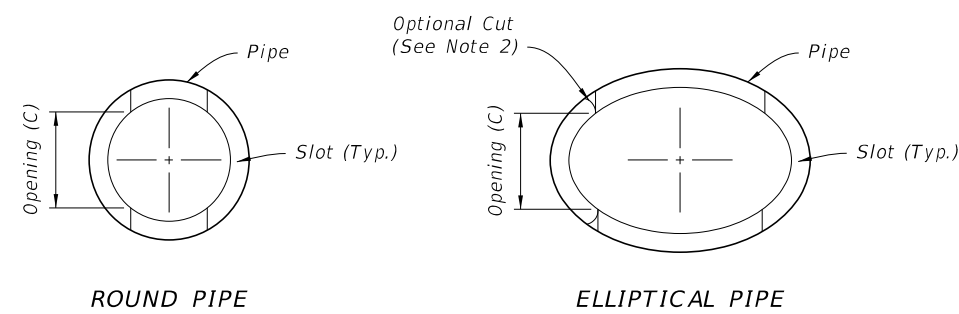
SECTION B-B



SECTION C-C

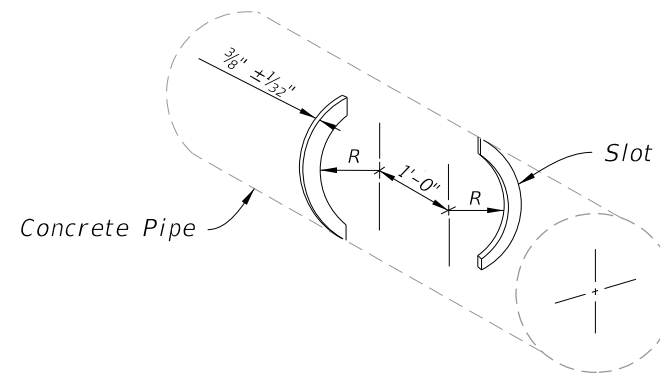


SIDE VIEW



ROUND PIPE

ELLIPTICAL PIPE



ISOMETRIC VIEW
(Round Pipe Shown)

SECTION D-D

NOTES:

1. 2'-0" for 8'-0" joints of pipe;
2'-6" for 12'-0" joints of pipe
2. A curved cut is acceptable
provided the control dimension
is maintained.

TABLE 1 ROUND PIPE		
Pipe Size	Slot Cut	
	Opening (C)	
	Min.	Max.
15"	12"	14"
18"	12"	14"
24"	16"	18"
30"	16"	18"
36"	22"	24"
42"	22"	24"
48"	22"	24"
54"	24"	26"
60"	24"	26"
66"	24"	26"
72"	24"	26"

TABLE 2 ELLIPTICAL PIPE		
Pipe Size	Slot Cut	
	Opening (C)	
	Min.	Max.
14"x23"	10"	12"
19"x30"	14"	16"
24"x38"	14"	16"
29"x45"	20"	22"
34"x53"	20"	22"
38"x60"	20"	22"

OPTION A - ROUND PIPE

OPTION B - ROUND OR ELLIPTICAL PIPE

CONCRETE SLOTTED PIPE OPTIONS