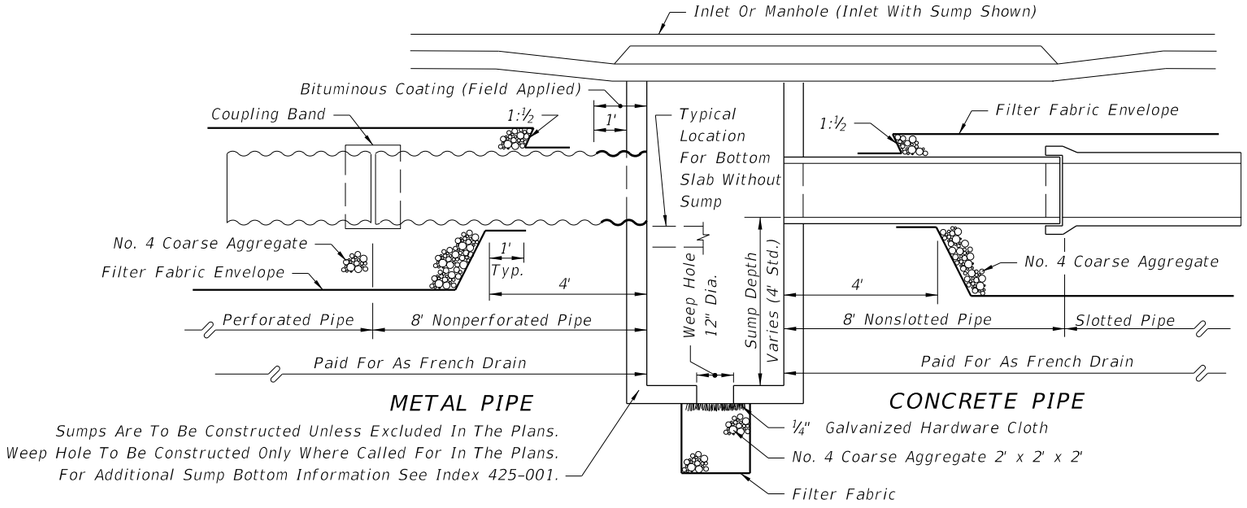
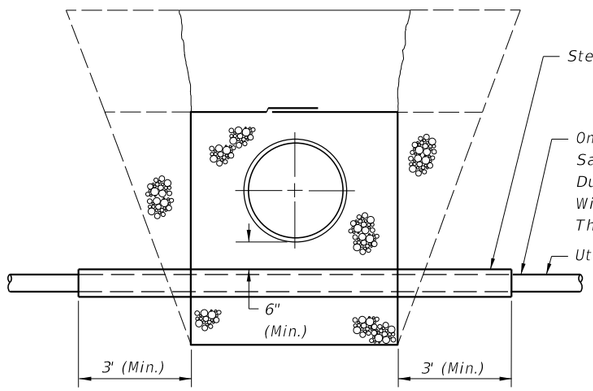
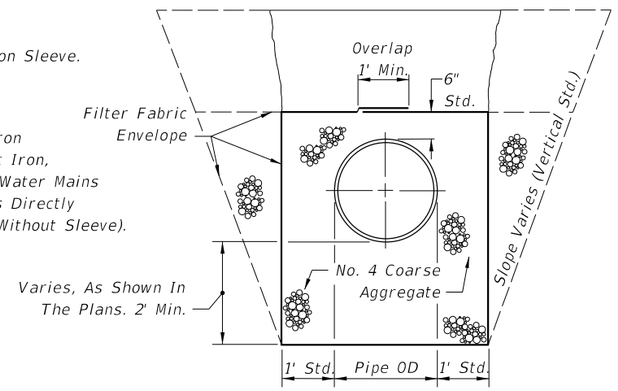



LONGITUDINAL SECTION




ROUND PIPE SHOWN
UTILITY PIPES THRU FRENCH DRAIN




ROUND PIPE SHOWN
STANDARD CROSS SECTION (ENLARGED)

FRENCH DRAIN SYSTEM

## GENERAL NOTES

1. Pipe shall be any of the optional types permitted in Section 443 of the Specifications unless otherwise restricted in the plans. Dissimilar types of pipe will not be permitted in a continuous run of pipe.
2. Concrete pipe shall be placed with the slots positioned on sides.
3. Alignment joints are standard (gaskets not required). Recorrugation of metal pipe ends not required.
4. The contractor may submit other methods of providing slots having equal or greater area of opening, for approval by the Engineer.
5. Filter fabric shall be Type D-3 meeting the requirements of Section 985. All filter fabric joints shall lap a minimum of one (1) foot.
6. The standard cross section shall be constructed unless other section(s) described or detailed in the plans.
7. For supplemental details see Index 430-001.
8. The contractor shall take the necessary precautions to prevent contamination of the trench with sand, silt and foreign materials.
9. French drains shall be paid for under the contract unit price for French Drains, LF. The unit price shall include the cost of pipe, pipe plugs, pipe fittings, coarse aggregate and filter fabric in place, and the cost for trench excavation, backfill and compaction. The unit price shall also include the cost for disposal of surplus excavated materials and cost for restoration of pavement removed or damaged by french drain construction, but shall not include payments for items paid for elsewhere.

## DESIGN NOTES

1. Pipe invert should be at or above the water table whenever possible.
2. French drains with minor dimensional changes or otherwise different from the standard cross-section shall be either described or detailed in the plans. French drains with significantly different cross-sections shall be detailed in the plans.

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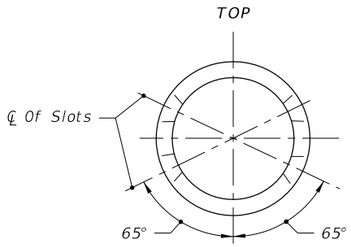
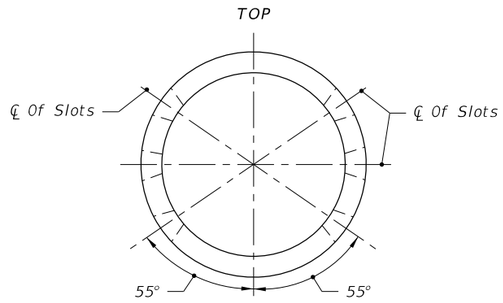


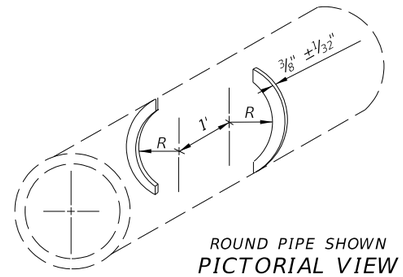

15"-30"



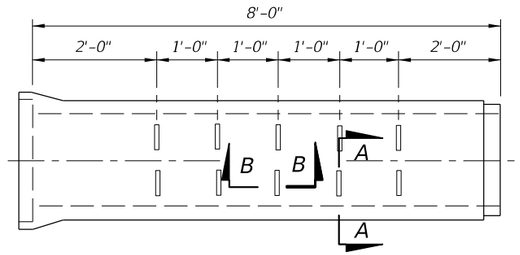

36"-72"

| 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" |

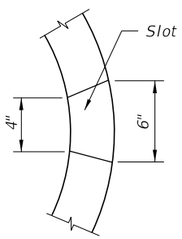
| ROUND PIPE | | |
|---|---|---|
| Pipe Size | Slot Cut Opening c | |
| | Min. | Max. |
| 15" | 12" | 14" |
| 18" | 12" | 14" |
| 24" | 16" | 18" |
| 30" | 16" | 18" |
| 36" | 22" | 24" |
| 42" | 22" | 24" |
| 48" | 22" | 24" |
| 54" | 24" | 26" |
| 60" | 24" | 26" |
| 66" | 24" | 26" |
| 72" | 24" | 26" |



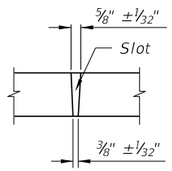

ROUND PIPE SHOWN
PICTORIAL VIEW




SIDE VIEW



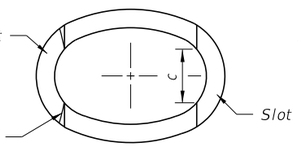

SECTION AA



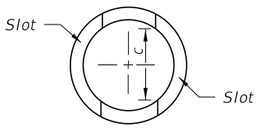

SECTION BB

OPTION A - ROUND PIPE

A curved cut is acceptable provided the control dimension is maintained (Typical For Elliptical & Round Pipe)

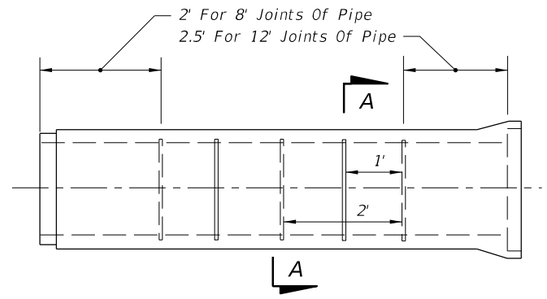



ELLIPTICAL PIPE




ROUND PIPE

SECTION AA




SIDE VIEW

OPTION B - ROUND OR ELLIPTICAL PIPE

## SLOTTED PIPE OPTIONS

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