



3/4" X 3/4" MESH,
HARDWARE CLOTH
MIN. 17 GAUGE,
GALVANIZED
AFTER WEAVING.

CRIMP AROUND OUTLET END OF
PIPE AND SECURE TO PIPE WITH
GALVANIZED STEEL WIRE

ANIMAL SHIELD DETAIL

NOTES:
ALL CONCRETE TO BE CLASS A3 IF CAST IN PLACE. FOR PRECAST
SEE SHEET 110.02.

CONCRETE QUANTITIES SHOWN ARE BASED ON A 12" DUCTILE IRON
WATER LINE. IF OTHER SIZE OR TYPE OF PIPE IS USED QUANTITIES
ARE TO BE ADJUSTED ACCORDINGLY.

COST OF WIRE MESH SHIELD AT OUTFALL END OF PIPE IS TO BE
INCLUDED IN PRICE BID FOR PIPE.

THIS ITEM MAY BE PRECAST OR CAST IN PLACE.

CONTRACTOR IS TO PROVIDE OPENING FOR PIPE AND FLEXIBLE
CONNECTOR BY CORING OR CAST-IN-PLACE SLEEVE WITH WATER
STOP COLLAR.

PIPE(S) SHALL BE CONNECTED TO SPRING BOX WITH A FLEXIBLE BOOT
MEETING ASTM SPECIFICATION C-923. COST OF FLEXIBLE CONNECTION
TO BE INCLUDED IN BID PRICE FOR SPRING BOX. BOOT SHALL BE MADE
FROM NEOPRENE RUBBER AND HAVE A 3/8" MINIMUM WALL THICKNESS
THROUGHOUT. THE INTERNAL EXPANSION BAND TO SECURE THE BOOT
IN PLACE SHALL CONFORM TO ALUMINUM MATERIAL SPECIFICATION 6061-
T6. THE EXTERNAL BAND TO CLAMP AND SEAL THE BOOT TO THE PIPE
SHALL BE STAINLESS STEEL-CORROSION RESISTANT CONFORMING TO
ASTM SPECIFICATION A-167. THE OPENING TO RECEIVE THE FLEXIBLE
CONNECTION SHALL BE CORE DRILLED AND IS TO BE CONSTRUCTED TO
ALLOW FOR LATERAL AND VERTICAL MOVEMENT, AS WELL AS ANGULAR
ADJUSTMENT THRU 20 DEGREES. ALL FIELD INSTALLATION OF PIPE TO
SPRING BOX USING FLEXIBLE BOOT SHALL BE COMPLETED IN ACCORD-
ANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

** STANDARD RECOMMENDED PIPE IS 12" DUCTILE IRON WATER LINE,
PUSH ON JOINTS, CLASS TO BE SPECIFIED BASED UPON HEIGHT
OF COVER.

| HEIGHT OF FILL | SIZE (L) | TOP SLAB (D) | SIDEWALLS (W) | FOOTING WIDTH (F) | REINFORCING STEEL | | | | QUANTITIES | | |
|----------------|----------|--------------|---------------|-------------------|-------------------|--------|------|-------------|----------------|-------------------|----------------------|
| | | | | | NO. REQ'D. | LENGTH | SIZE | SPACING C-C | CU. YDS. CONC. | REINF. STEEL LBS. | INCREMENT * CU. YDS. |
| BELOW 25' | 4' | 8" | 6" | 12" | 32 | 3'-9" | #4 | 6" | 1.189 | 80 | 0.043 |
| 25' - 50' | 4'-4" | 8" | 8" | 14" | 32 | 4'-1" | #5 | 6" | 1.512 | 136 | 0.053 |

* QUANTITIES SHOWN ARE BASED ON A 8" DEPTH OF FOOTING, ADD
INCREMENTAL QUANTITY FOR EACH ADDITIONAL 1" OF DEPTH.

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| SPECIFICATION REFERENCE |
| 105 |
| 232 |
| 302 |

STANDARD SPRING BOX

VIRGINIA DEPARTMENT OF TRANSPORTATION

| | |
|---------------------------|--------------|
| VDOT | |
| ROAD AND BRIDGE STANDARDS | |
| REVISION DATE | SHEET 1 OF 1 |
| | 110.01 |