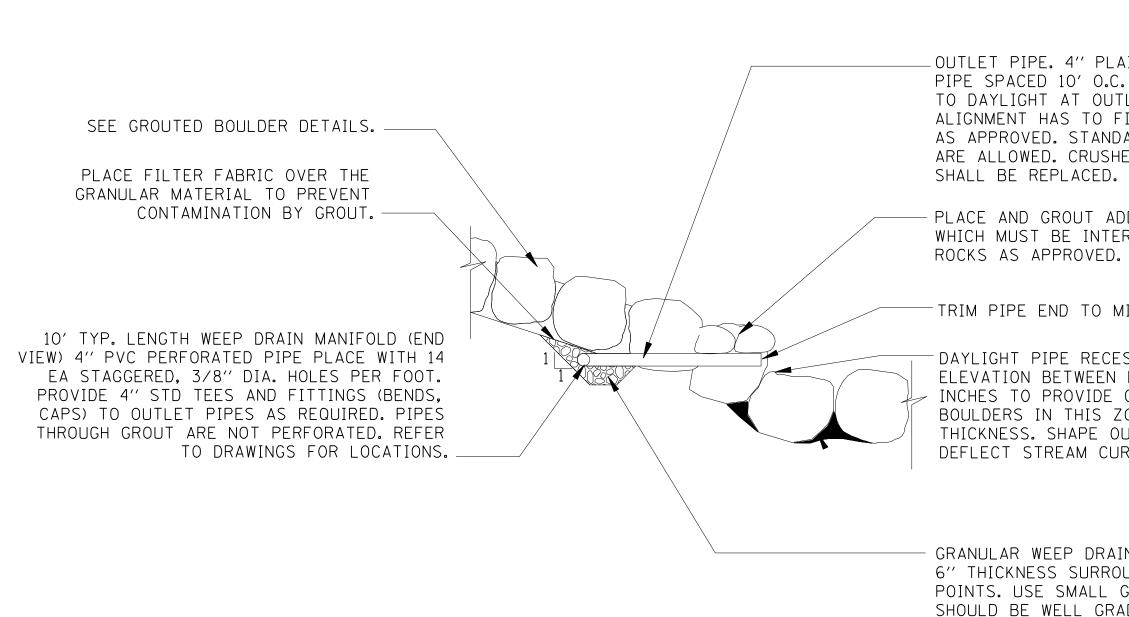
STATE OF ILLINOIS



OUTLET PIPE. 4" PLAIN, NOT PERFORATED; PVC PIPE SPACED 10' O.C. MAXIMUM. SLOPE AT 1% TO DAYLIGHT AT OUTLET ELEVATION. PIPE ALIGNMENT HAS TO FIT BETWEEN BOULDERS AS APPROVED. STANDARD SMALL ANGLE BENDS ARE ALLOWED. CRUSHED OR PUNCTURED PIPE SHALL BE REPLACED.

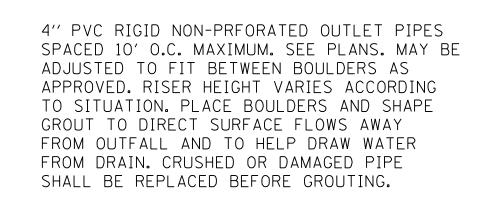
PLACE AND GROUT ADDITIONAL COVER STONE WHICH MUST BE INTERLOCKED WITH OTHER

TRIM PIPE END TO MINIMIZE PROTRUSION.

DAYLIGHT PIPE RECESSED IN BOULDERS. REDUCE GROUT ELEVATION BETWEEN DOWNSTREAM BOULDERS 4 TO 8 INCHES TO PROVIDE GRAVITY DRAINAGE. USE LARGER BOULDERS IN THIS ZONE TO MAINTAIN MINIMUM GROUT THICKNESS. SHAPE OUTFALL AND PLACE ROCK TO DEFLECT STREAM CURRENT AWAY FROM OUTLET.

GRANULAR WEEP DRAIN FILTER MATERIAL. MINIMUM 6" THICKNESS SURROUNDING PIPE SYSTEM AT ALL POINTS. USE SMALL GRAVEL; ROUNDED, NOT CRUSHED, SHOULD BE WELL GRADED. COVER WITH IMPERVIOUS FABRIC TO PREVENT GROUT PENETRATION

TYPICAL TYPE A WEEP DRAIN SYSTEM NOT TO SCALE

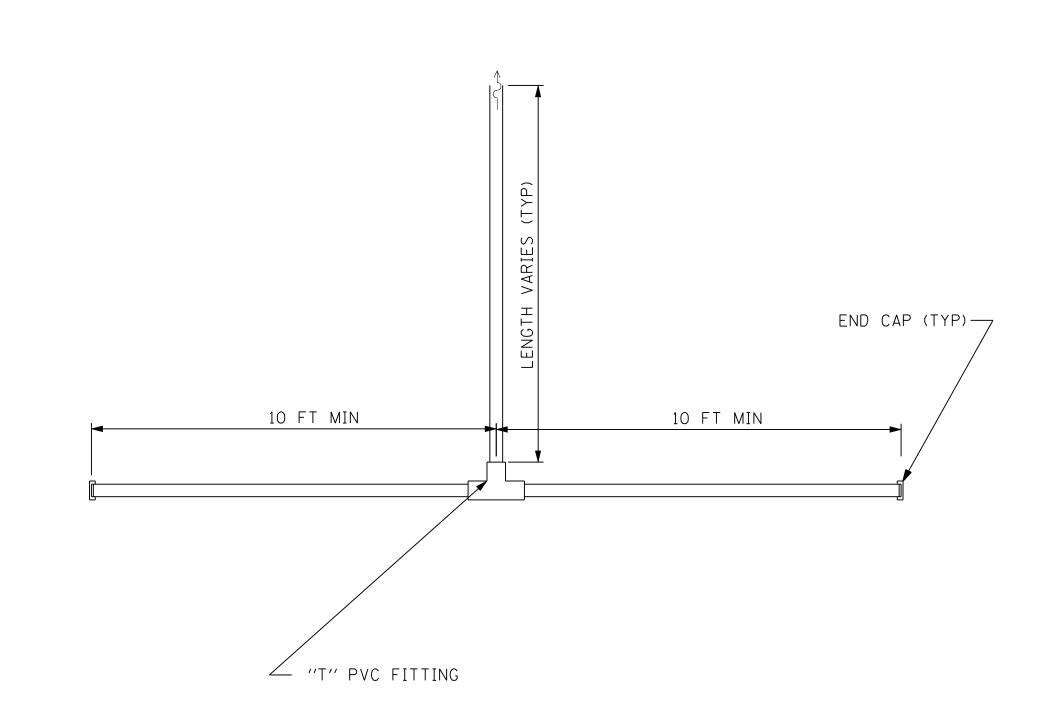


- PLACE PVC ELBOW TO DAYLIGHT JUST ABOVE NOMINAL GROUT LEVEL. CLEAN EXCESS GROUT AND PROVIDE SLOPE FOR FREE DRAINAGE. ALIGN WITH SURFACE CURRENT DIRECTION. PROVIDE ADDITIONAL SMALL GROUTED BOULDERS TO PROTECT

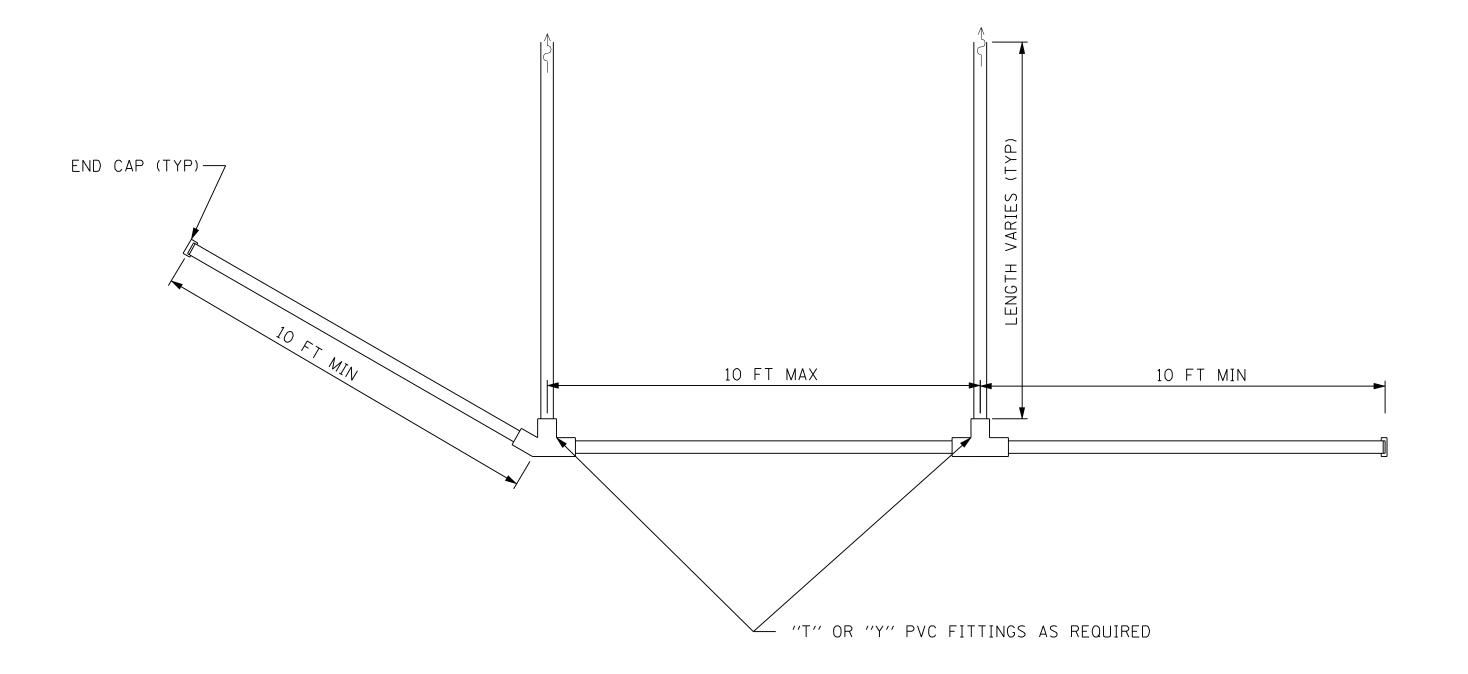
GROUT TO STAY LOW FOR 6 INCH WIDTH TO DAYLIGHT

—SEE DETAILS FOR GROUTED BOULDERS

YPICAL TYPE B <u>WEEP DRAIN SYSTE</u>M NOT TO SCALE



TYPICAL TYPE A WEEP DRAIN SYSTEM PLAN NOT TO SCALE



TYPICAL TYPE B WEEP DRAIN SYSTEM PLAN NOT TO SCALE

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FOR EACH WEEP DRAIN USE 10' MIN.

4" PERFORATED PVC WITH 14 EACH STAGGERED 3/8" DIA. HOLES PER FOOT. PROVIDE 4" STANDARD TEES

AND FITTINGS (BENDS, CAPS) AS

REQUIRED. PIPES IN AND NEAR

PLACE FABRIC OVER GRANULAR MATERIAL TO PREVENT GROUT

GRANULAR WEEP DRAIN FILTER

WITH IMPERVIOUS FABRIC TO PREVENT GROUT PENETRATION

MATERIAL. MINIMUM 6" THICKNESS SURROUNDING PIPE SYSTEM. USE SMALL GRAVEL; ROUNDED, NOT

CRUSHED, AND UNIFORM SIZE. COVER

CONTAMINATION OF FILTER

GROUT ARE NOT TO BE

PERFORATED.

GRAVEL.