

CONSTRUCTION NOTES

GENERAL NOTES

1. ALL ITEMS SHALL BE CONSTRUCTED TO THE DIMENSIONS AND ELEVATIONS SHOWN ON THE DRAWINGS. ANY CHANGES SHALL BE APPROVED BY THE NRCS REPRESENTATIVE ON SITE.
2. ALL PERMITS, EASEMENTS, AND RIGHTS OF WAY ARE THE RESPONSIBILITY OF THE LANDOWNER.
3. IT IS THE EXCAVATION CONTRACTORS RESPONSIBILITY TO CALL "DIG SAFE" AND TO COMPLY WITH ALL VERMONT LAWS AND REGULATIONS REGARDING THE LOCATION AND WORK AROUND UNDERGROUND UTILITIES. DIG SAFE (888) 344-7233.
4. ALL CONSTRUCTION ACTIVITIES SHALL BE DONE IN A MANNER THAT MINIMIZES SEDIMENT FROM ENTERING ANY WATER BODIES, INCLUDING DRAINAGE WAYS, SEE VT D.E.C. SEDIMENT AND EROSION CONTROL HANDBOOKS.
5. CONSTRUCTION MAY NOT BEGIN UNTIL THE CONTRACTOR, LANDOWNER, AND NRCS HAVE A PRE-CONSTRUCTION MEETING IN ORDER TO DISCUSS THE DETAILS OF THE PROJECT.
6. IT SHALL BE THE CONTRACTOR'S AND LANDOWNER'S RESPONSIBILITY TO NOTIFY NRCS AT LEAST TWO DAYS IN ADVANCE OF:

A. START OF CONSTRUCTION.

B. INSTALLATION OF PIPELINE.

GUTTER & COLLECTION PIPE NOTES:

7. THE GUTTER LOCATION IS DEPENDENT ON THE EAVE DRIP LINE.
8. ALUMINUM MATERIAL TO HAVE A BAKED ENAMEL FINISH. ALUMINUM GUTTERS TO BE 0.032 INCHES THICK; ALUMINUM DOWNSPOUTS TO BE 28 GAGE MIN. ALUMINUM GUTTERS SHALL BE OF BOX OGEE TYPE WITH A MINIMUM WIDTH SPECIFIED ON GUTTER & DOWNSPOUT DETAILS SHEET.
9. ALL ABOVE GROUND PVC COLLECTION PIPE OR PVC HALF-ROUND GUTTERS SHALL BE SDR 35 OR BETTER AND PAINTED WITH 2 COATS OF LATEX PAINT.
10. ALL GUTTERS SHALL HAVE END CAPS.
11. DO NOT CONNECT DISSIMILAR METAL MATERIALS.
12. GUTTERS ARE TO BE GIVEN CONTINUOUS BACKING SUPPORT HAVING A VERTICAL FACE. ROOF RAFTERS WITH UNSOUND ENDS SHALL BE REPAIRED PRIOR TO PLACEMENT OF WEDGE STRINGERS OR FASCIA BOARD.
13. HANGERS SHALL BE LOCATED NO MORE THAN 24 INCHES APART AND NAILED TO THE ROOF SHEATHING OR FASCIA BOARD AT RAFTER LOCATIONS WHERE FEASIBLE. FOR SPIKE AND FERRAL SUPPORTS, SPIKES SHALL BE AT LEAST 2 INCHES WIDER THAN THE GUTTER, SPACED 24 INCHES ON CENTER, AND NAILED INTO A 2-INCH THICK SUPPORT BOARD.
14. ALUMINUM DOWNSPOUTS TO BE SECURELY FASTENED AT THE TOP AND BOTTOM WITH INTERMEDIATE SUPPORTS AT 10 FOOT SPACING. PVC COLLECTION PIPE OR PVC DOWNSPOUTS TO BE SECURELY FASTENED WITH STEEL SUPPORT STRAPS AS SHOWN AND EVERY 12 FT MAXIMUM.

TRANSFER PIPE & OUTLET NOTES:

15. THE TRENCH BOTTOM SHALL BE GROOVED TO PROVIDE SUPPORT FOR THE BOTTOM 1/3 OF THE PIPE WHEN FLEXIBLE PIPE IS INSTALLED. GRAVEL BEDDING MAY BE USED TO PROVIDE LATERAL SUPPORT FOR THE PIPE WHEN THE TRENCH BOTTOM CANNOT BE GROOVED.
16. AS SOON AS PLACED AND INSPECTED THE CONVEYANCE PIPE SHALL BE HAND COVERED WITH LOOSE, FRIABLE MATERIAL FROM THE TRENCH SIDES OR FILTER GRAVEL TO A DEPTH OF 6" OVER THE PIPE.
17. DO NOT PUSH LARGE STONES INTO TRENCH.
18. BACKFILL COMPACTION SHALL BE ACCOMPLISHED BY THE ROUTING OF CONSTRUCTION EQUIPMENT OVER THE FILL SUCH THAT THE ENTIRE SURFACE OF EACH LAYER WILL BE TRAVERSED BY NOT LESS THAN 1 TRACK OF THE CONSTRUCTION EQUIPMENT.
19. THE OUTLET PIPE SHALL BE RIGID AND NON-PERFORATED FOR A MINIMUM OF 8 FEET. METAL PIPE SHALL BE USED IF THE HEADWALL IS CONCRETE.
20. DISCHARGE OUTLET SHALL NOT BE DIRECTLY PLACED IN AN EXISTING STREAM OR WATERCOURSE. THE PIPE OUTLET MUST DISCHARGE TO A GRASSED WATERWAY OR VEGETATED BUFFER ZONE OF NOT LESS THAN 30' FROM THE TOP OF BANK OF ANY WATERCOURSE.

FINISH WORK NOTES:

21. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED AND MULCHED ACCORDING TO CONSTRUCTION SPECIFICATION #52.



LOCATION MAP  
SCALE: \_\_\_\_\_

BILL OF MATERIALS

ITEM #	ITEM	QUANTITY	UNIT	CONSTRUCTION SPECIFICATIONS
1.	SITE PREPARATION	FOR	JOB	1, 5
2.	_____” GUTTER SYSTEM (SEE DETAILS SHEET)		L.F.	41, 46, 48
3.	_____” PVC COLLECTION PIPE (ABOVE GROUND)		L.F.	41
4.	DOWNSPOUTS, TYPE A CONFIGURATION		E.A.	41, 46, 48
5.	DOWNSPOUTS, TYPE B CONFIGURATION		E.A.	41, 46, 48
6.	DOWNSPOUTS, TYPE C CONFIGURATION		E.A.	41, 46, 48
7.	EXCAVATION		C.Y.	11
8.	_____” CONVEYANCE PIPE (BELOW GROUND)		L.F.	41
9.	SEEDING & MULCHING		ACRE	52



Date

1/1/2021

Designed

Drawn

Checked

Approved by

VT STANDARD DRAWING

United States

Department of

Agriculture

Natural Resources

Conservation Service

USDA

HAZARD CLASS

LOW

JOB CLASS

ROOF RUNOFF STRUCTURE-GUTTER

CONSTRUCTION NOTES & BILL OF MATERIALS

VERMONT

File Name

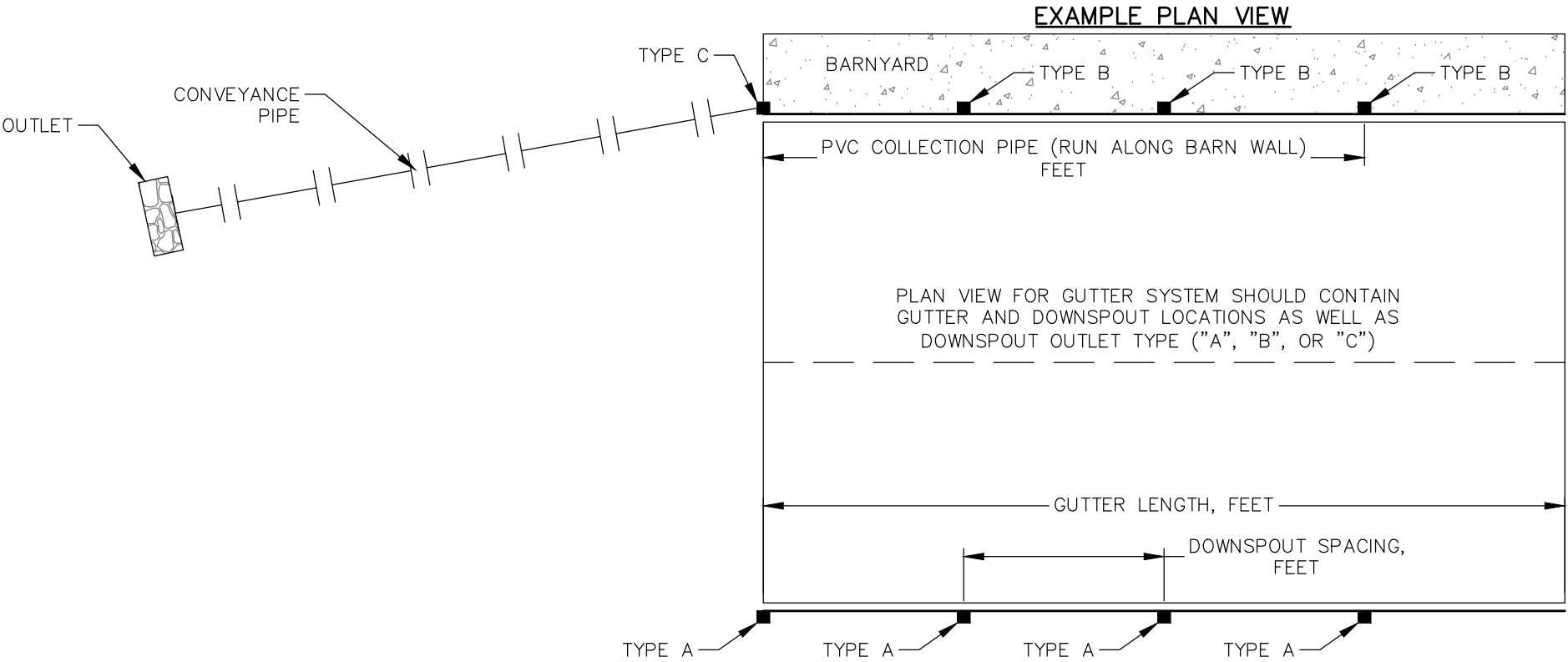
Drawing Name

VT-558-003-2021

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of

PLAN VIEW



PROFILE:



Date


1/1/2021


Designed

Drawn

Checked

Approved by





United States  
Department of  
Agriculture  
Natural Resources  
Conservation Service

HAZARD CLASS  
LOW

JOB CLASS

ROOF RUNOFF STRUCTURE—GUTTER  
PLAN — PROFILE

VERMONT

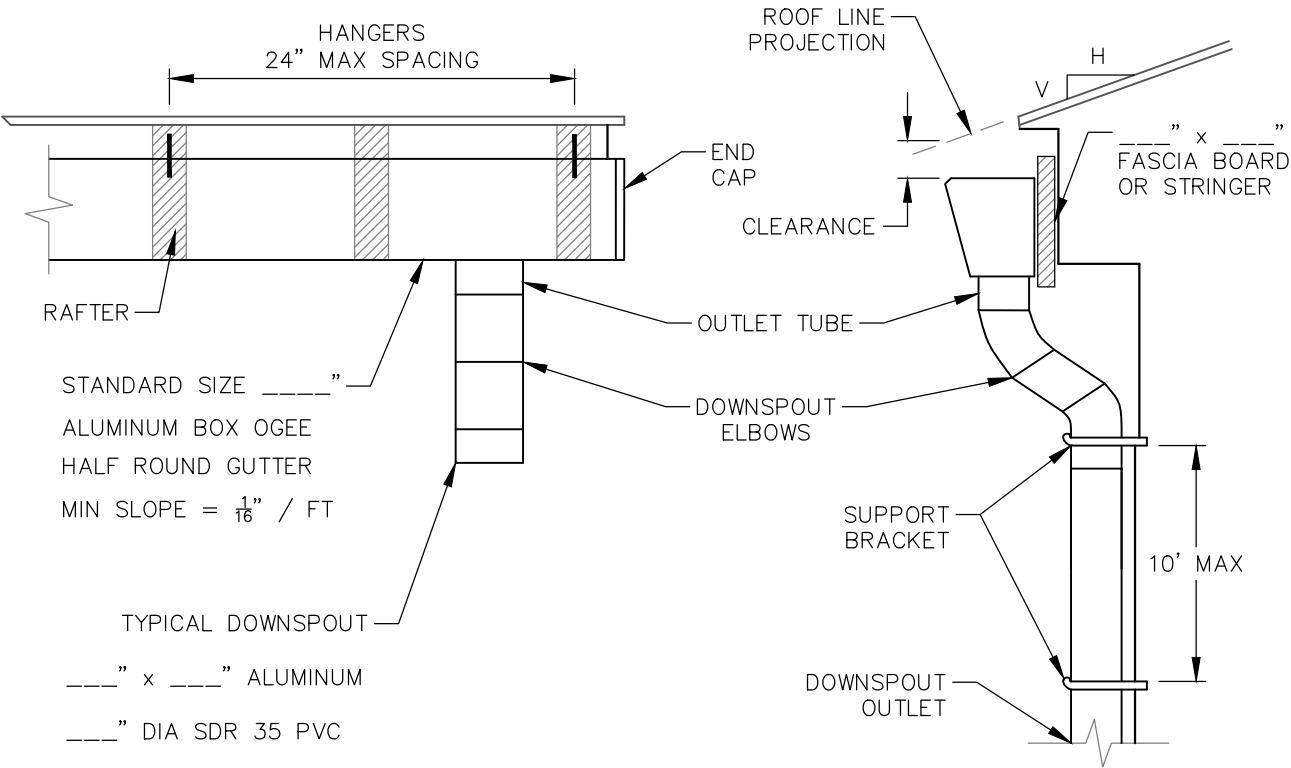
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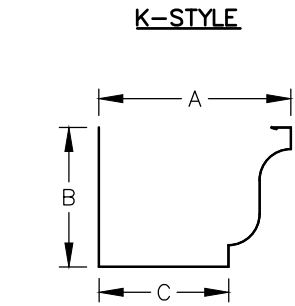
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GUTTER & DOWNSPOUT DETAILS  
(NOT TO SCALE)

STANDARD GUTTER DETAILS



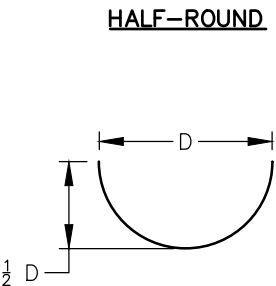
GUTTER SIZE & TYPE DETAILS



4" ALUMINUM BOX GUTTER (K-STYLE)  
A = 4 INCHES  
B =  $2\frac{3}{4}$  INCHES  
C =  $3\frac{1}{8}$  INCHES

5" ALUMINUM BOX GUTTER (K-STYLE)  
A = 4 INCHES  
B =  $2\frac{3}{4}$  INCHES  
C =  $3\frac{1}{8}$  INCHES

6" ALUMINUM BOX GUTTER (K-STYLE)  
A = 4 INCHES  
B =  $2\frac{3}{4}$  INCHES  
C =  $3\frac{1}{8}$  INCHES



4" PLASTIC HALF-ROUND  
D = 4 INCHES

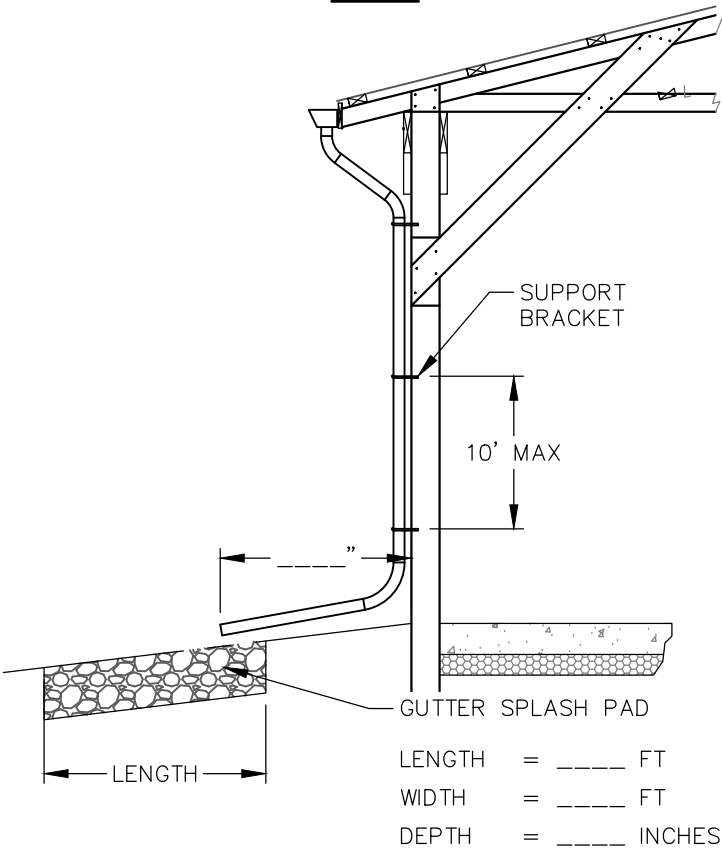
6" PLASTIC HALF-ROUND  
D = 6 INCHES

CLEARANCE	
ROOF SLOPE	DISTANCE
12H : 12V	1/2"
12H : 7V	1/2"
12H : 5V	3/4"

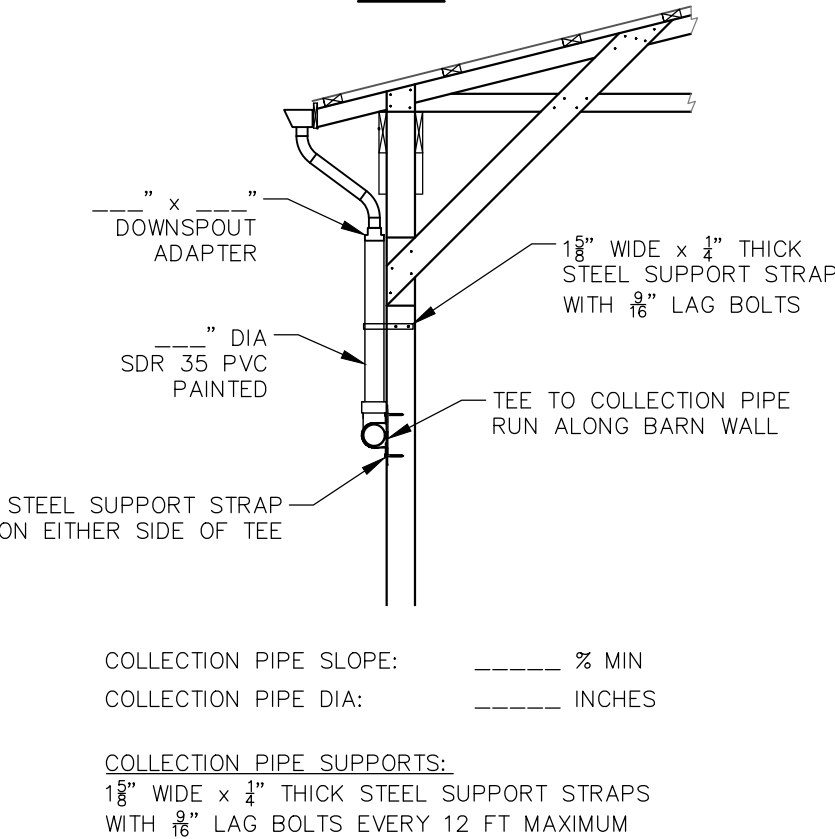
DOWNSPOUT OUTLET DETAILS

DOWNSPOUT SPACING = EVERY \_\_\_\_\_ FT MAXIMUM

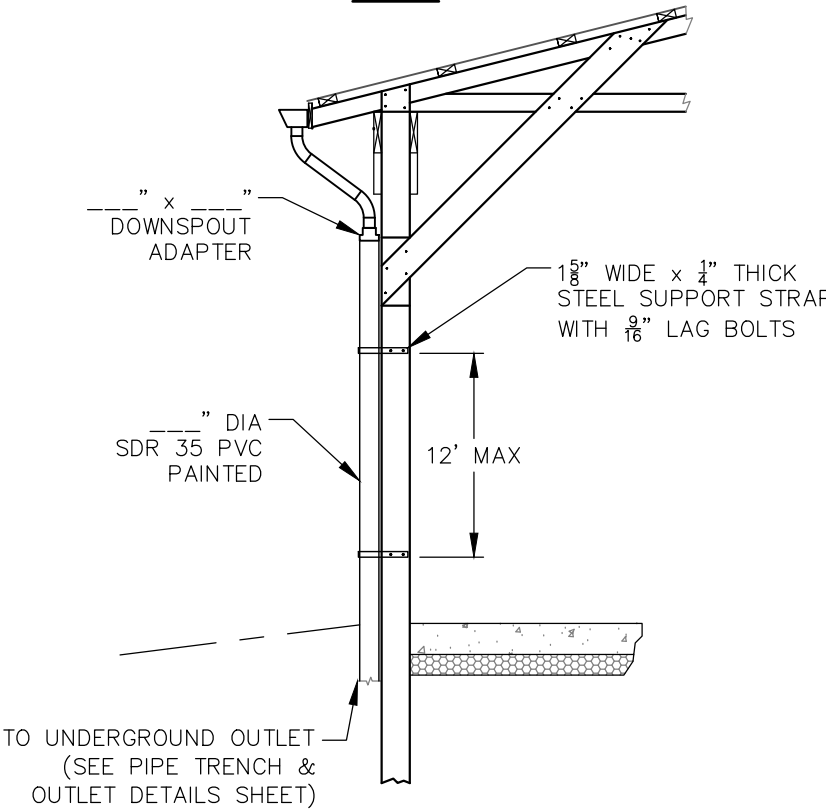
TYPE A



TYPE B

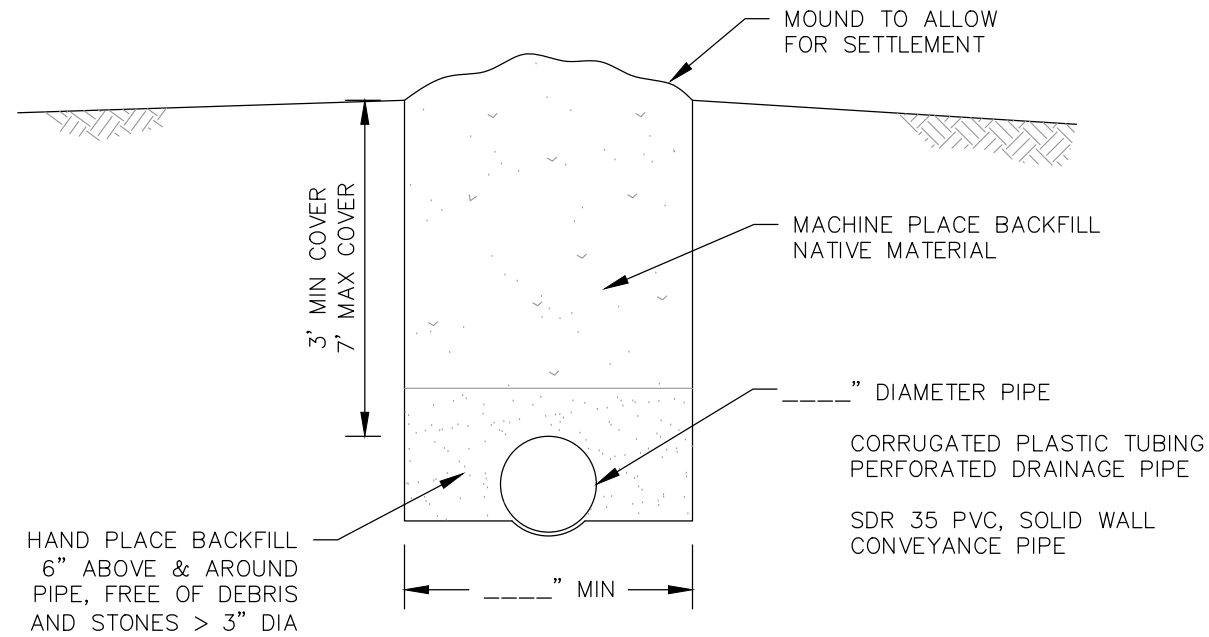


TYPE C

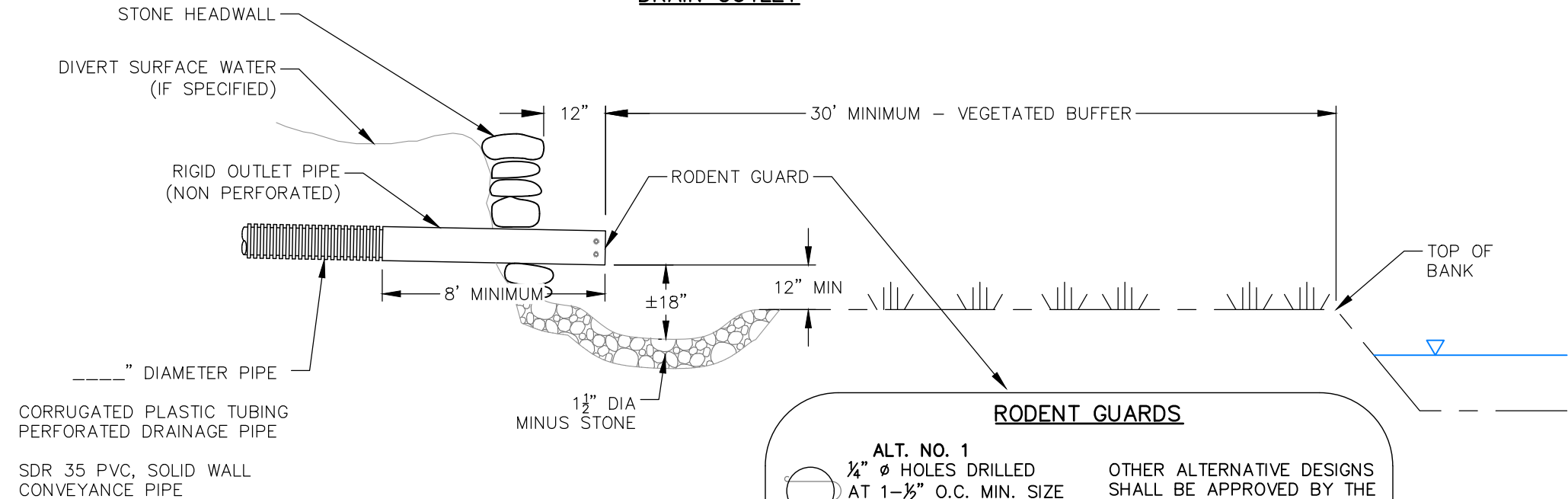


PIPE TRENCH & OUTLET DETAILS  
(NOT TO SCALE)

TYPICAL TRENCH SECTION



DRAIN OUTLET



RODENT GUARDS

ALT. NO. 1

$\frac{1}{4}$ "  $\phi$  HOLES DRILLED  
AT  $1-\frac{1}{2}$ " O.C. MIN. SIZE  
SHALL BE NO. 9  
GALVANIZED WIRE.

OTHER ALTERNATIVE DESIGNS  
SHALL BE APPROVED BY THE  
TECHNICIAN PRIOR TO  
INSTALLATION.

ALT. NO. 2

$\frac{5}{16}$ "  $\phi$  HOLES DRILLED  
AT  $1-\frac{1}{2}$ " O.C.  
HORIZONTAL BARS  
SHALL BE  $\frac{1}{4}$ "  
GALVANIZED BOLTS.

PIPE DIAMETER (IN.)	NUMBER OF WIRES/BOLTS
4"	2
6"	3
8"	5