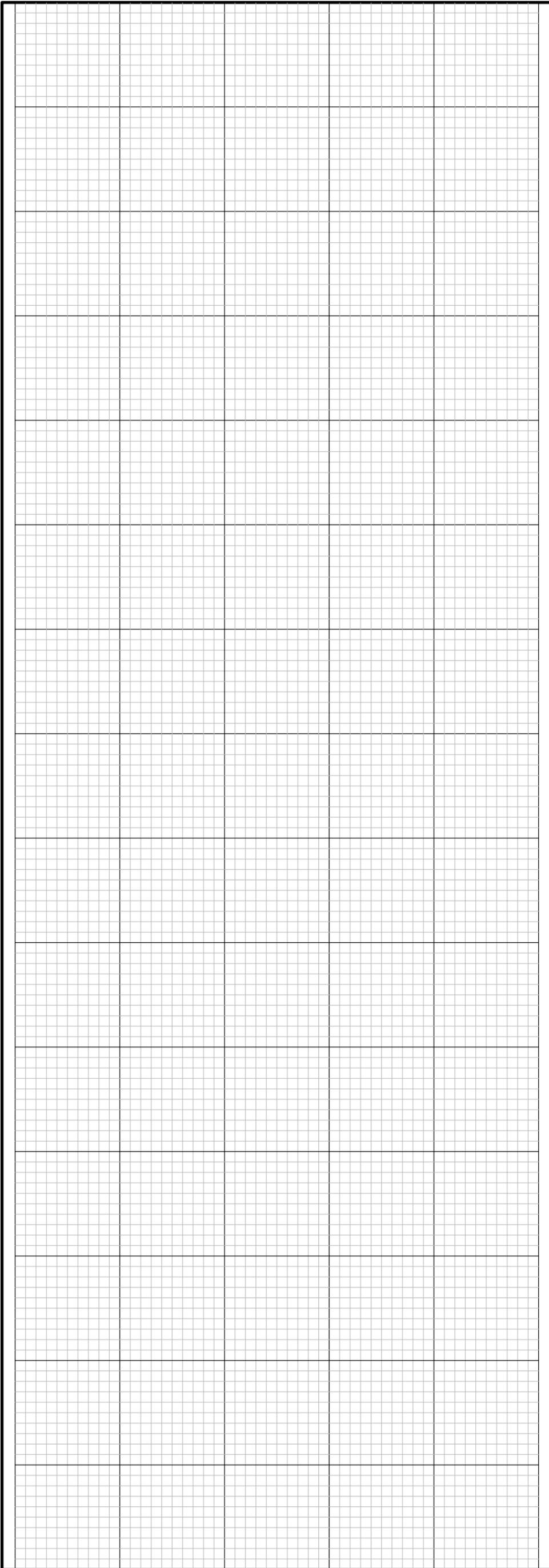


PLAN VIEW



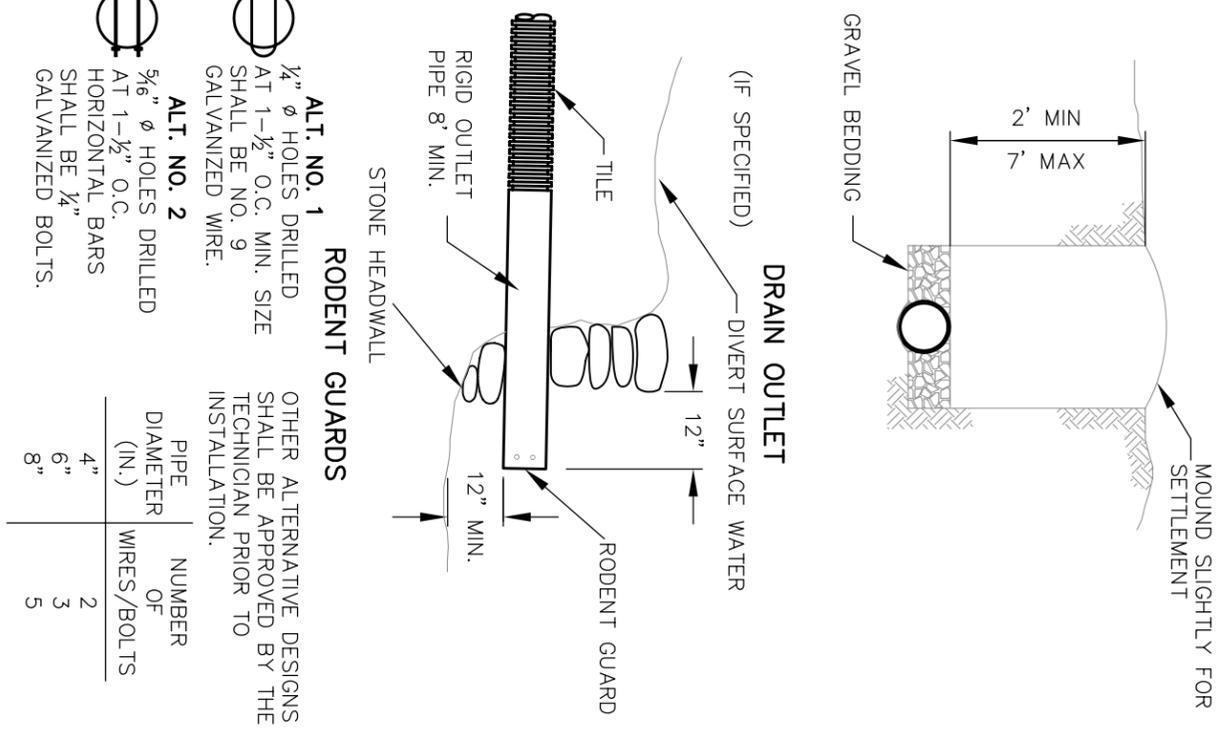
Sheet 1 of 2	Drawing Name	File Name	UNDERGROUND OUTLET PLAN-PROFILE	VERMONT
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HAZARD CLASS LOW	JOB CLASS
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Designed _____	Date _____
Drawn _____	_____
Checked _____	_____
Approved by _____	_____

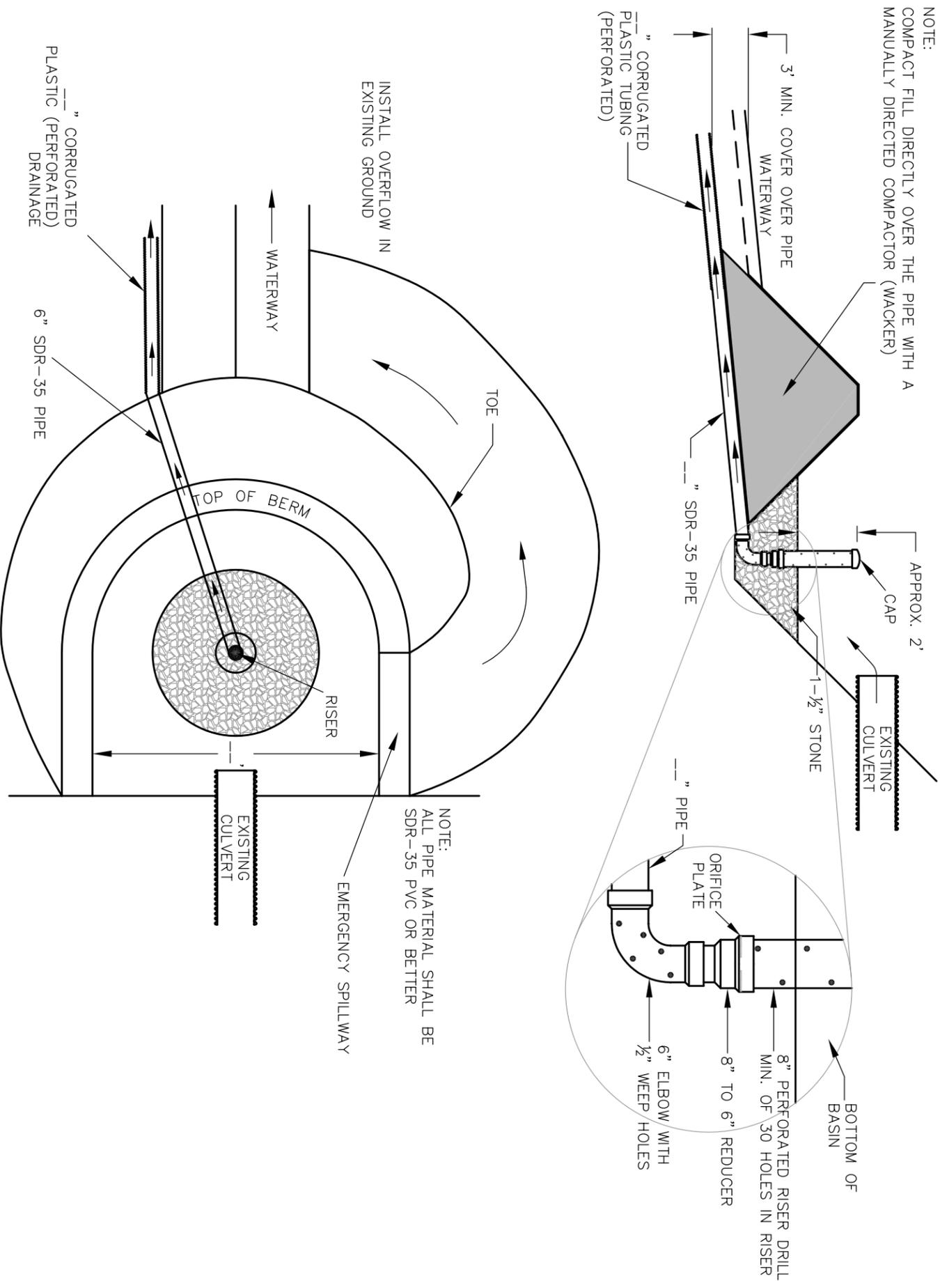
**TILE DRAINAGE DETAILS**  
TYPICAL SECTION



- RODENT GUARDS**
- ALT. NO. 1**  
1/4" Ø HOLES DRILLED AT 1-1/2" O.C. MIN. SIZE SHALL BE NO. 9 GALVANIZED WIRE.
- ALT. NO. 2**  
5/16" Ø HOLES DRILLED AT 1-1/2" O.C. HORIZONTAL BARS SHALL BE 1/4" GALVANIZED BOLTS.
- CONSTRUCTION NOTES**
1. 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.
  2. ROUND PIPE PERFORATION SHALL BE 3/16" PLACE HOLES DOWN. SLOTS SHALL BE NO LONGER THAN 1-1/4".
  3. AS SOON AS PLACED AND INSPECTED THE PIPE SHALL BE HAND COVERED WITH LOOSE, FRIABLE MATERIAL FROM THE TRENCH SIDES OR FILTER GRAVEL TO A DEPTH OF 6" OVER THE PIPE.
  4. DO NOT PUSH LARGE STONES INTO TRENCH.
  5. THE OUTLET PIPE SHALL BE RIGID AND NON-PERFORATED. METAL PIPE SHALL BE USED IF THE HEADWALL IS CONCRETE OR IF DISCHARGE IS INTO A DRAINAGE CHANNEL OR STREAM.

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

**UNDERGROUND OUTLET**  
(NOT TO SCALE)



NOTE:  
COMPACT FILL DIRECTLY OVER THE PIPE WITH A MANUALLY DIRECTED COMPACTOR (WACKER)

NOTE:  
ALL PIPE MATERIAL SHALL BE SDR-35 PVC OR BETTER

**BILL OF MATERIALS**

ITEM #	ITEM	QUANTITY	UNIT	CONSTRUCTION SPECIFICATIONS
1.	EARTHWORK		C.Y.	11
2.	---" CORRUGATED PLASTIC TUBING		L.F.	41
3.	---" SDR-35 PIPE		L.F.	41
4.	1-1/2" STONE		C.Y.	11
5.	8" PERFORATED RISER		EA	41

**UNDERGROUND OUTLET DETAILS**

HAZARD CLASS LOW  
JOB CLASS



Date \_\_\_\_\_  
Designed \_\_\_\_\_  
Drawn \_\_\_\_\_  
Checked \_\_\_\_\_  
Approved by \_\_\_\_\_