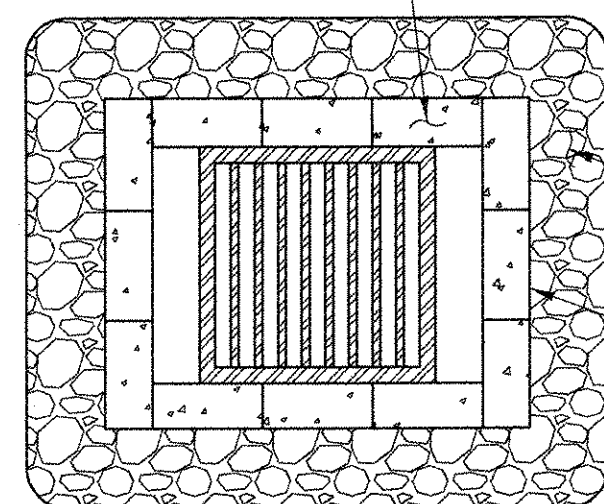
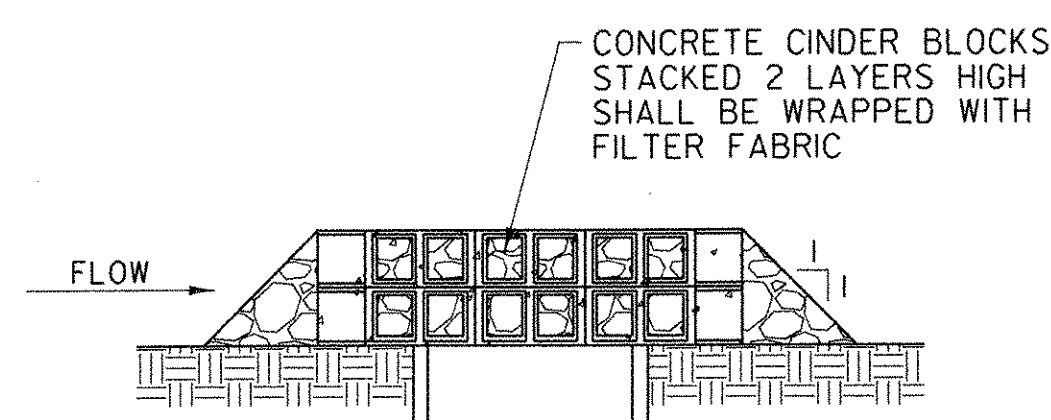


PLACE CONCRETE "CINDER" BLOCKS AROUND THE DRAINAGE STRUCTURE SO THAT OPEN AREAS OF BLOCKS ALLOW FLOW TO REACH THE GRATE.



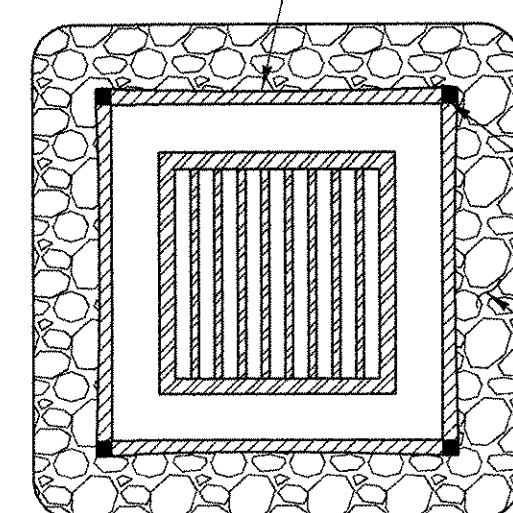
PLAN



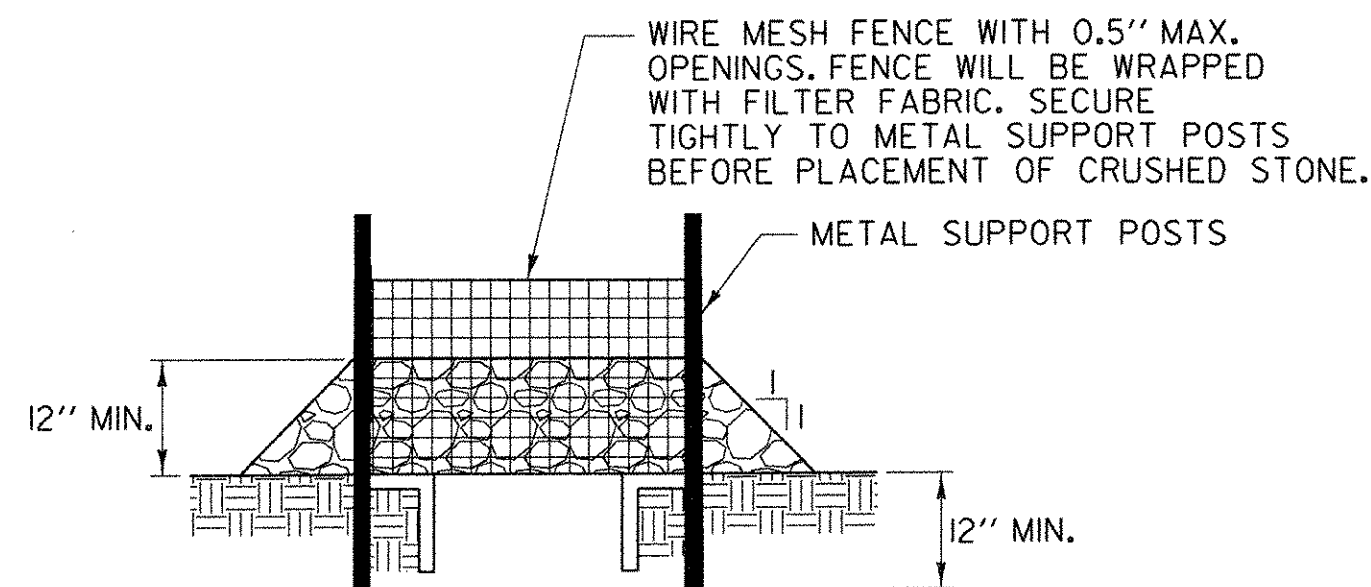
SECTION

**ROCK BARRIER DROP INLET PROTECTION
TEMPORARY PAVED AREAS**

PLACE FILTER FABRIC AROUND THE WIRE MESH TO PREVENT CRUSHED STONE FROM ENTERING THE DROP INLET.



PLAN



SECTION

**ROCK BARRIER INLET PROTECTION
TEMPORARY UNPAVED AREAS**

N.T.S.
STANDARD SYMBOL

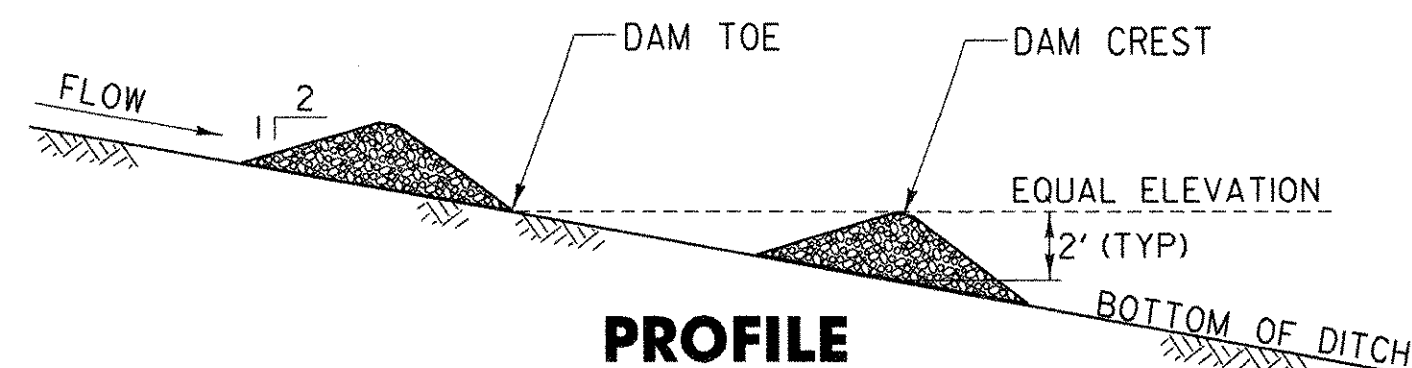


APPLICATION NOTES:

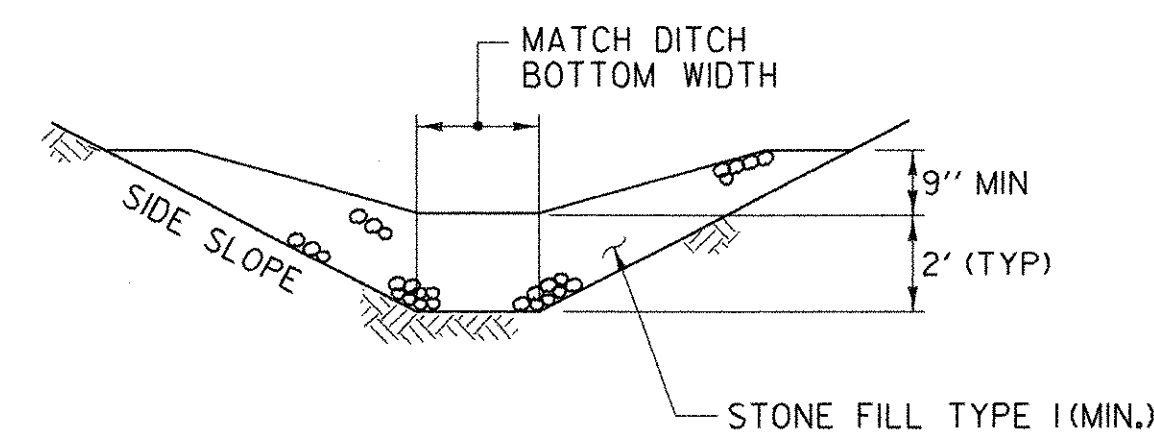
- A. THE PRIMARY PURPOSE OF DRAINAGE STRUCTURE INLET PROTECTION IS TO PREVENT SEDIMENT FROM ENTERING A DRAINAGE SYSTEM BY PONDING WATER WHICH ALLOWS SEDIMENT TO FALL OUT OF SUSPENSION.
- B. THESE EXAMPLES OF DROP INLET PROTECTION ARE NOT INTENDED FOR USE ON GRADES. ON GRADES THEY MAY CAUSE WATER TO BYPASS THE STRUCTURE, CREATING ADDITIONAL EROSION OR FLOODING.
- C. POSSIBLE MODIFICATIONS FOR USE ON GRADE INCLUDE ADDING A BERM DOWNSTREAM OF THE INLET TO CREATE PONDING. CHECK DAMS MAY ALSO BE USED UPSTREAM OF THE INLET TO SLOW VELOCITIES.

GENERAL NOTES:

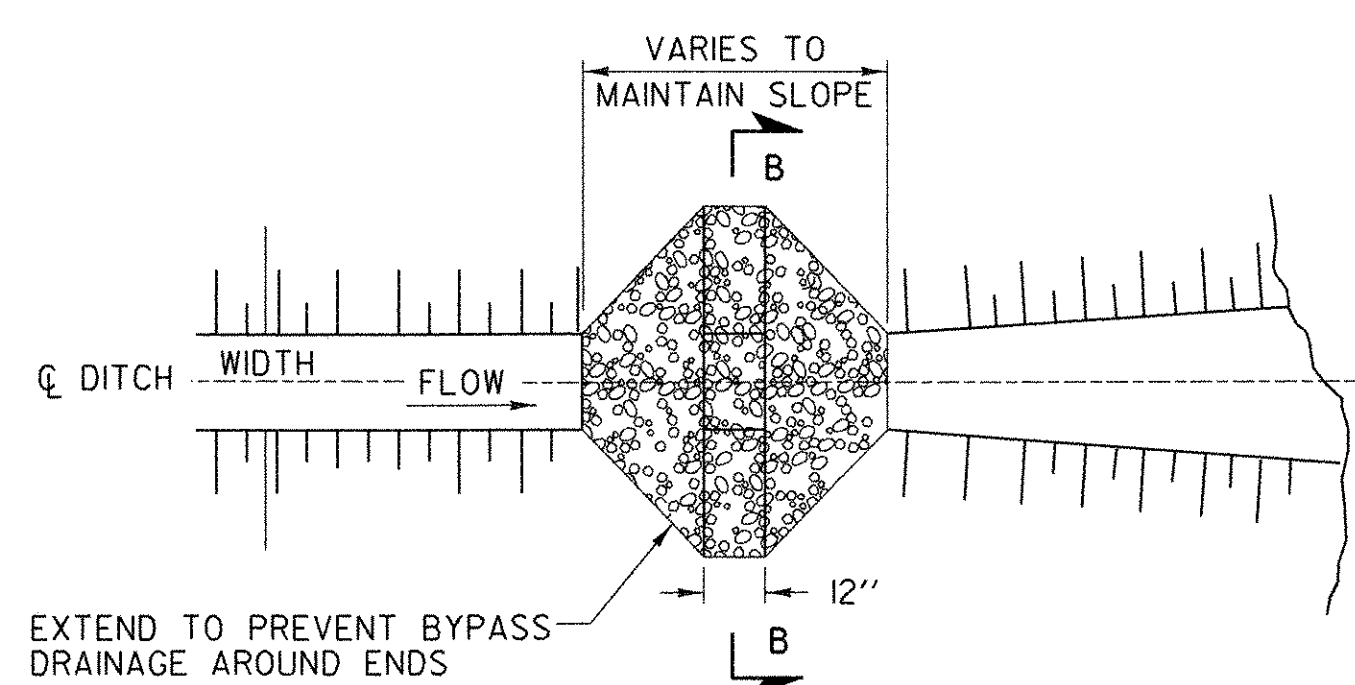
1. THE TOP OF THE INLET PROTECTION SHALL BE SET AT THE MAXIMUM DESIRED WATER LEVEL BASED ON FIELD LOCATION AND CONDITIONS OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. FILTER FABRIC SHALL BE A SINGLE CONTINUOUS PIECE TO ELIMINATE JOINTS.
3. MEASURES SHALL BE INSPECTED EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS OF A STORM EVENT GREAT ENOUGH TO CAUSE WATER TO LEAVE THE CONSTRUCTION SITE OR AS DIRECTED BY THE RESIDENT ENGINEER.
4. MEASURES SHALL BE CLEANED AND REPAIRED AS NEEDED, SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.
5. PAYMENT OF INLET PROTECTION SHALL BE MADE UNDER ITEM 613.10 STONE FILL, TYPE 1 (MOD. - INLET PROTECTION).
6. PAYMENT FOR MONITORING INLET PROTECTION SHALL BE MADE UNDER ITEM 652.20 MONITORING EROSION PREVENTION & SEDIMENT CONTROL PLAN.
7. PAYMENT FOR MAINTAINING INLET PROTECTION SHALL BE MADE UNDER ITEM 652.30 FIELD MAINTENANCE OF EROSION PREVENTION & SEDIMENT CONTROL PLAN UNLESS MAINTENANCE IS REQUIRED DUE TO POOR INSTALLATION PRACTICES.



PROFILE



SECTION B-B



PLAN

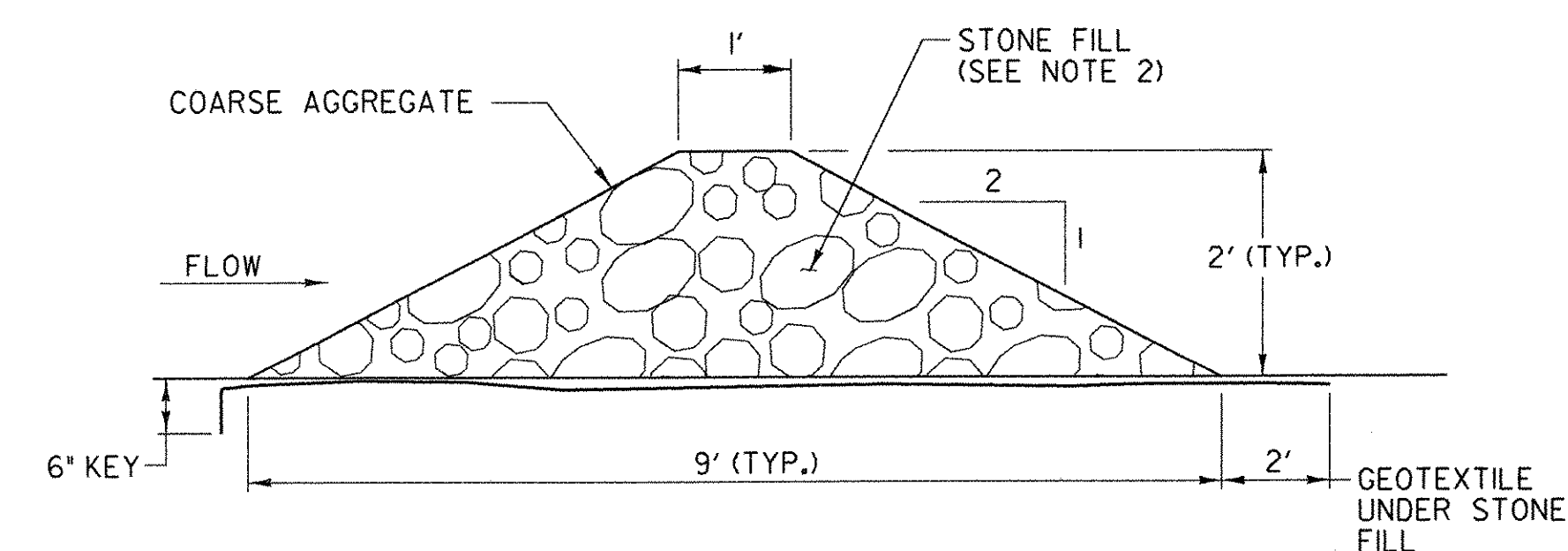
CHECK DAM -TEMPORARY

(STONE)
STANDARD SYMBOL



STONE CHECK DAM PLACEMENT INTERVAL	
DITCH SLOPE	PLACEMENT INTERVAL **
1 %	200 FT
2 %	100 FT
3 %	65 FT
4 %	50 FT
5 %	40 FT
6 %	30 FT
8 %	25 FT
10 %	20 FT

** BASED ON 2' TYPICAL HEIGHT



CROSS SECTION

APPLICATION NOTES:

- A. THE PRIMARY PURPOSE OF A STONE CHECK DAM IS TO REDUCE EROSION IN A CHANNEL BY REDUCING FLOW VELOCITY.
- B. CHECK DAMS WILL CAPTURE SEDIMENT THAT FALLS OUT OF SUSPENSION BEHIND THE CHECK DAM DUE TO DECREASED VELOCITY.
- C. CHECK DAMS ARE NOT INTENDED TO FILTER SEDIMENT FROM TURBID WATER.
- D. DETAILS SHOWN SHALL BE USED FOR TEMPORARY INSTALLATION ONLY.

GENERAL NOTES:

1. GEOTEXTILE SHALL BE INSTALLED UNDER STONE FILL PER SECTION 649 OF THE VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2001. IT SHALL BE KEYED IN ON THE UPHILL END AND SHALL EXTEND 2 FEET BEYOND THE STONE ON THE DOWNHILL END.
2. CORE MATERIAL FOR THE STONE CHECK DAM SHALL MEET THE GRADATION REQUIREMENTS OF STONE FILL TYPE 1 (MIN.) PER VAOT'S STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2001. STONE SIZE SHOULD BE INCREASED WITH INCREASED SLOPE AND VELOCITY.
3. MEASURES SHALL BE INSPECTED EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS OF A STORM EVENT GREAT ENOUGH TO CAUSE WATER TO LEAVE THE CONSTRUCTION SITE OR AS DIRECTED BY THE RESIDENT ENGINEER.
4. MEASURES SHALL BE CLEANED AND REPAIRED AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.
5. AT TIME OF REMOVAL OF THE CHECK DAMS, THE DISTURBED AREA SHALL BE REPAIRED AND STABILIZED AS DIRECTED BY THE RESIDENT ENGINEER.
6. PAYMENT FOR THE INSTALLATION AND REMOVAL OF STONE CHECK DAMS SHALL BE MADE UNDER ITEM 613.10 STONE FILL, TYPE 1 (MOD. - CHECK DAM)
7. PAYMENT FOR MONITORING CHECK DAMS SHALL BE MADE UNDER ITEM 652.20 MONITORING EROSION PREVENTION & SEDIMENT CONTROL PLAN.
8. PAYMENT FOR MAINTAINING CHECK DAMS SHALL BE MADE UNDER ITEM 652.30 FIELD MAINTENANCE OF EROSION PREVENTION & SEDIMENT CONTROL PLAN UNLESS MAINTENANCE IS REQUIRED DUE TO POOR INSTALLATION PRACTICES.

**TEMPORARY
EROSION
PREVENTION
& SEDIMENT
CONTROL
DETAILS**

SURVEYED BY W. DEYETTE DATE 10/93
 DRAWN BY C. KAHLBAUGH DATE 7/06
 SQUAD LEADER J. P. HALSTEAD
 DESIGN FILE NO. _____
 IPARM FILE _____ DATE PLOTTED 12/20/2006
 PROJ. NAME ST. JOHNSBURY, BRIDGE NO. 29
 PROJ. NO. BRO 1447(19)
 SHEET 25 OF 72 SHEETS

DATUM
VERTICAL NAVD 88
HORIZONTAL N/A