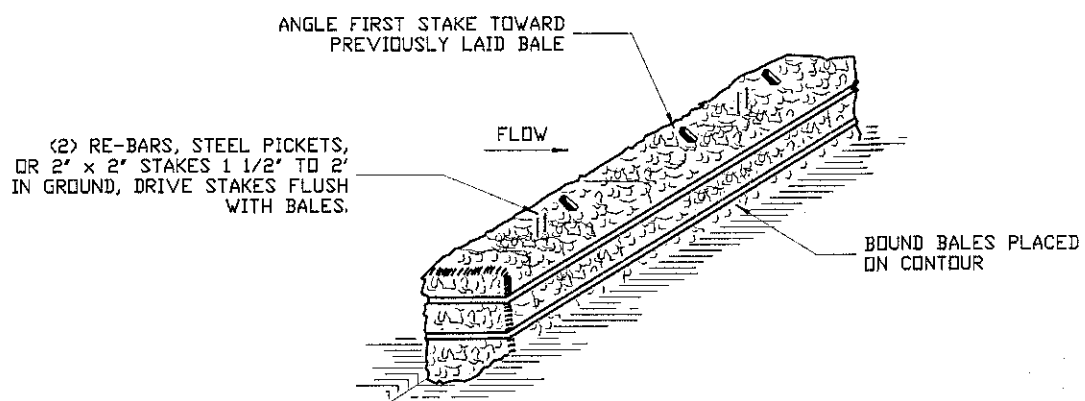
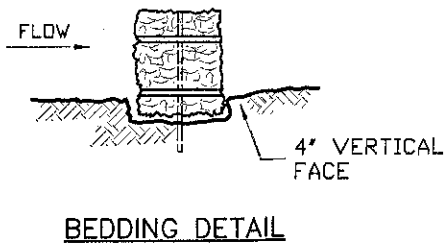


S:\05-CC-Site Detail.dwg
Brewer Engineering Associates, P.C.

NOTE:
DRAINAGE AREA NO MORE THAN
1/4 AC. PER 100 FEET OF STRAW
BALE DIKE FOR SLOPES LESS THAN 25%.

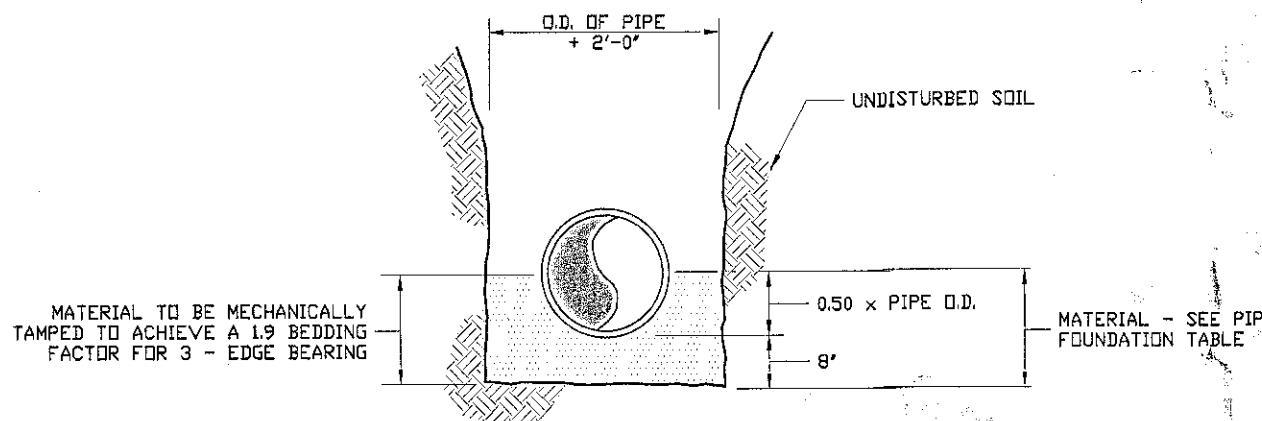


CONSTRUCTION SPECIFICATIONS

- BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ADJUTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STRAW BALE DIKE DETAIL

SCALE: NONE

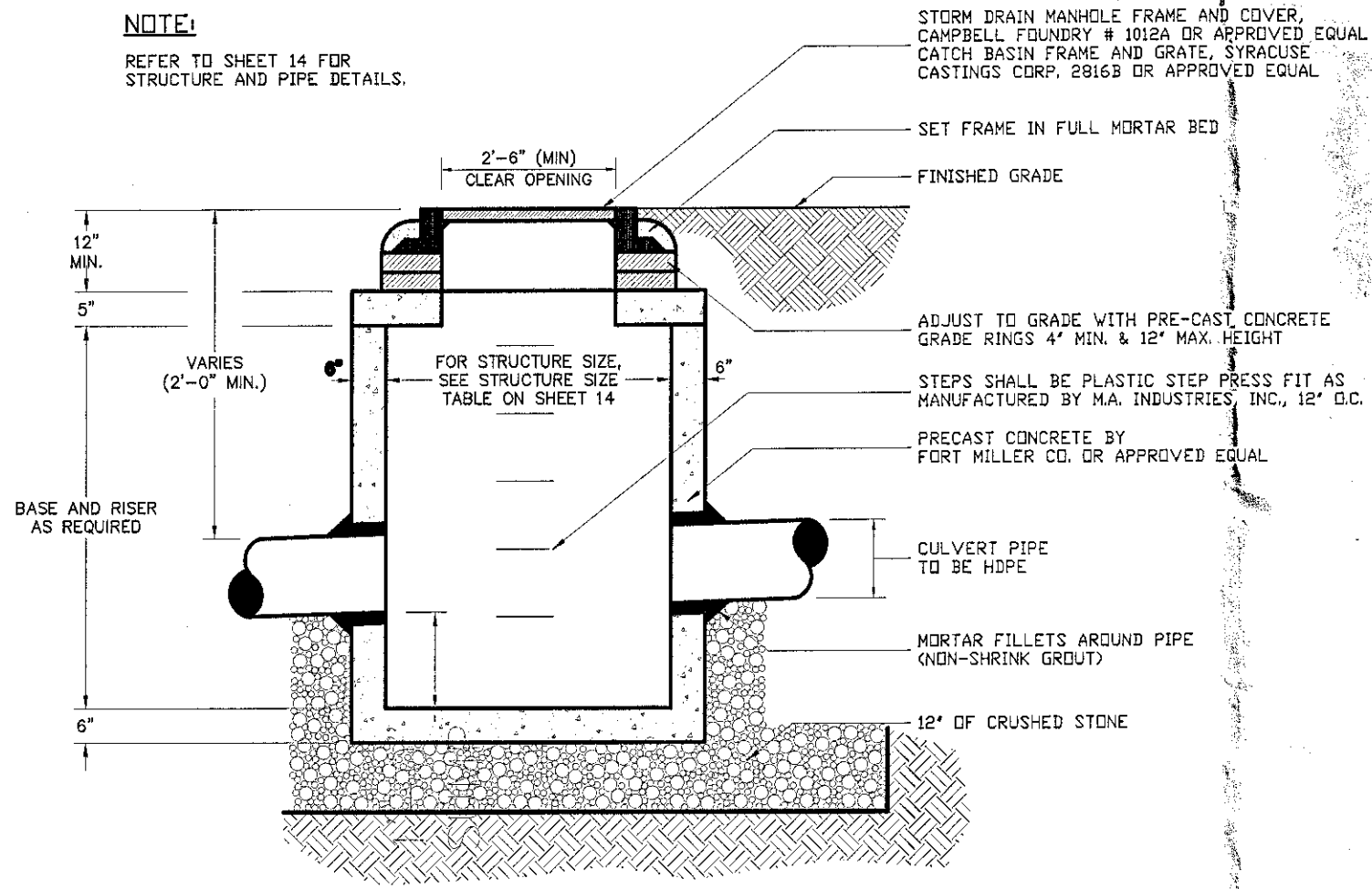


PIPE FOUNDATION TABLE

EXIST. SOIL CONDIT.	MATERIAL	NOTES
NORMAL	SAND	
UNSTABLE (GROUNDWATER)	CRUSHED STONE - NYSDOT ITEM NO. 62400 (AS ORDERED BY THE ENGINEER)	SAND SHALL BE USED ON ALL PVC PIPE LESS THAN 4" IN DIAMETER
ROCK	SAND	

PIPE FOUNDATION DETAILS

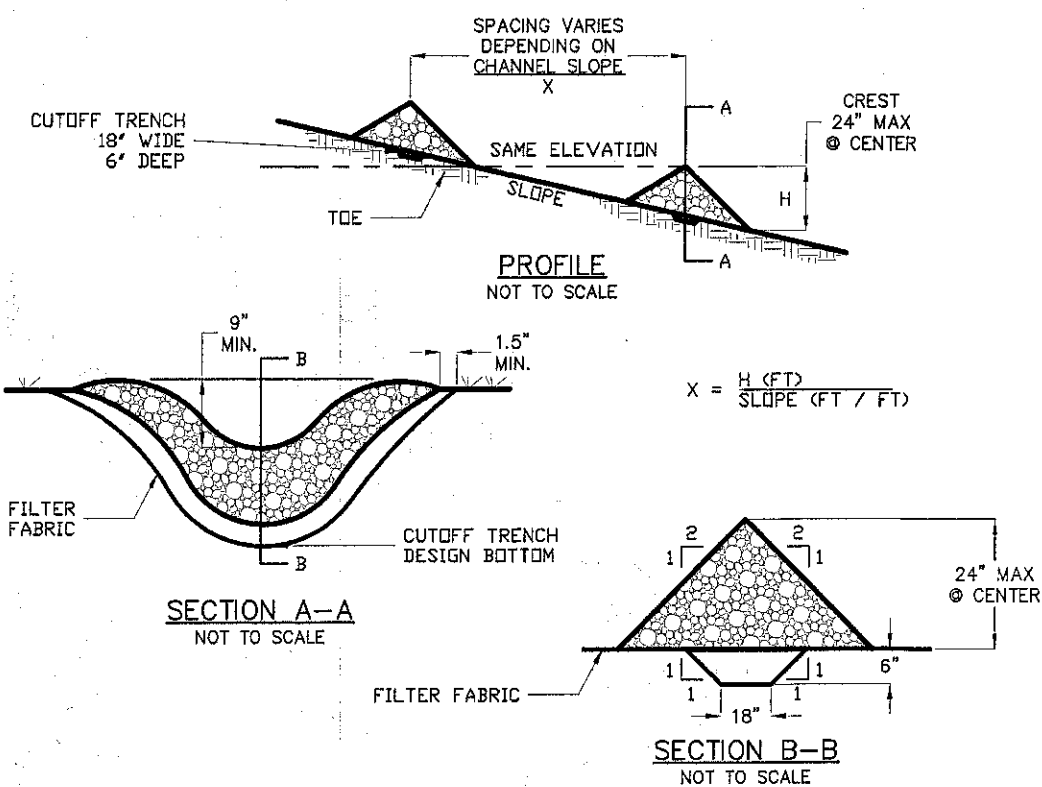
SCALE: NONE



SECTION A-A

TYPICAL CATCH BASIN AND STORM DRAIN MANHOLE DETAIL

SCALE: NONE

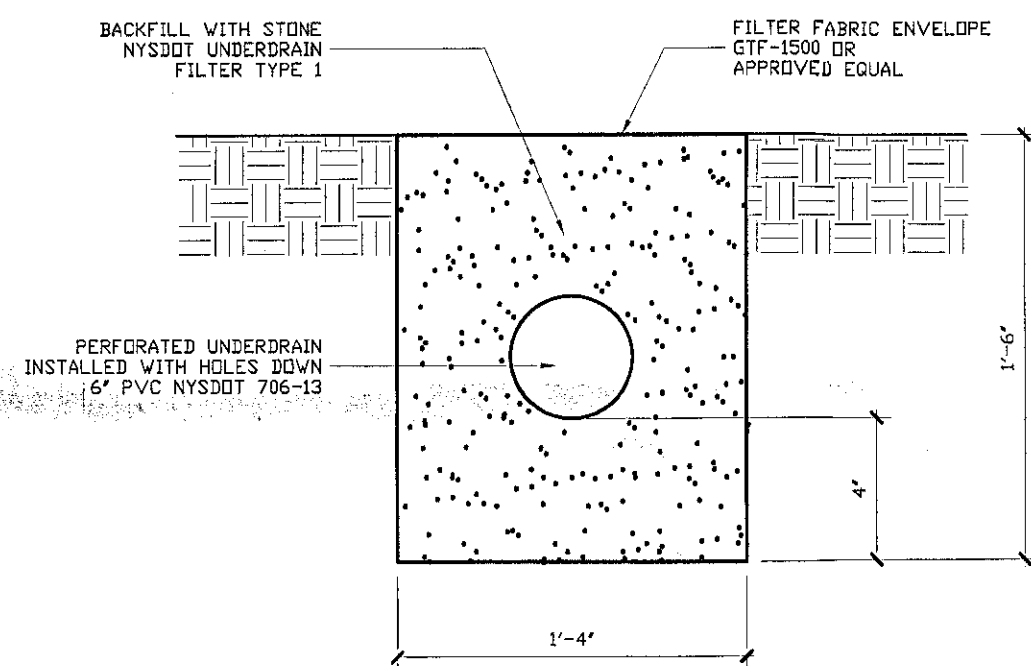


CONSTRUCTION SPECIFICATIONS

- USE GRADED STONE 2 TO 15 INCHES IN SIZE (NYS - DOT LIGHT STONE FILL MEETS THESE REQUIREMENTS).
- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES, AND LOCATIONS SHOWN IN THE PLANS.
- SET SPACING OF CHECK DAMS TO ASSURE THE ELEVATION OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
- EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER, AS APPROPRIATE.
- ENSURE THAT CHANNEL APPURTENANCES, SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS, ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. (MAXIMUM DRAINAGE AREA 2 ACRES)
- SHALLOW SWALES REQUIRE CRESTS TO BE 6" MAX. @ CENTER.

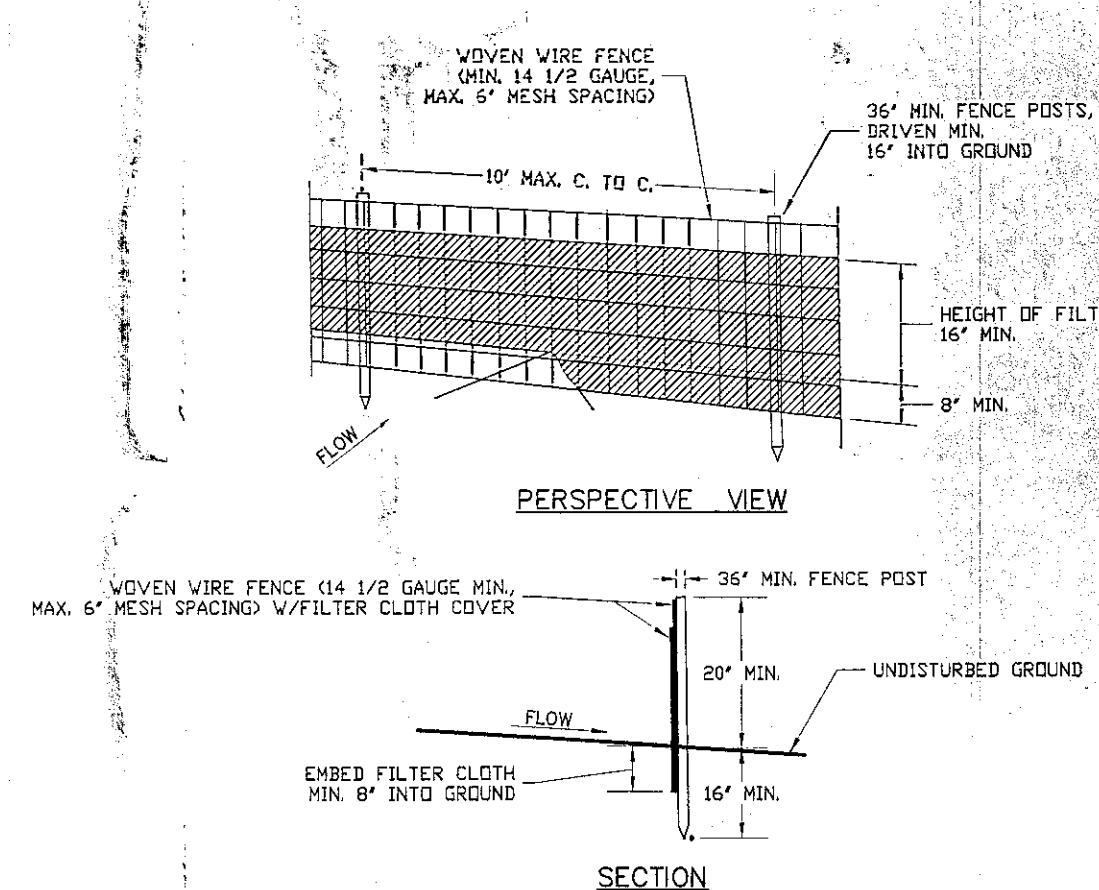
CHECK DAM

SCALE: NONE



UNDERDRAIN DETAIL

SCALE: NONE (AS REQUIRED BY ENGINEER)

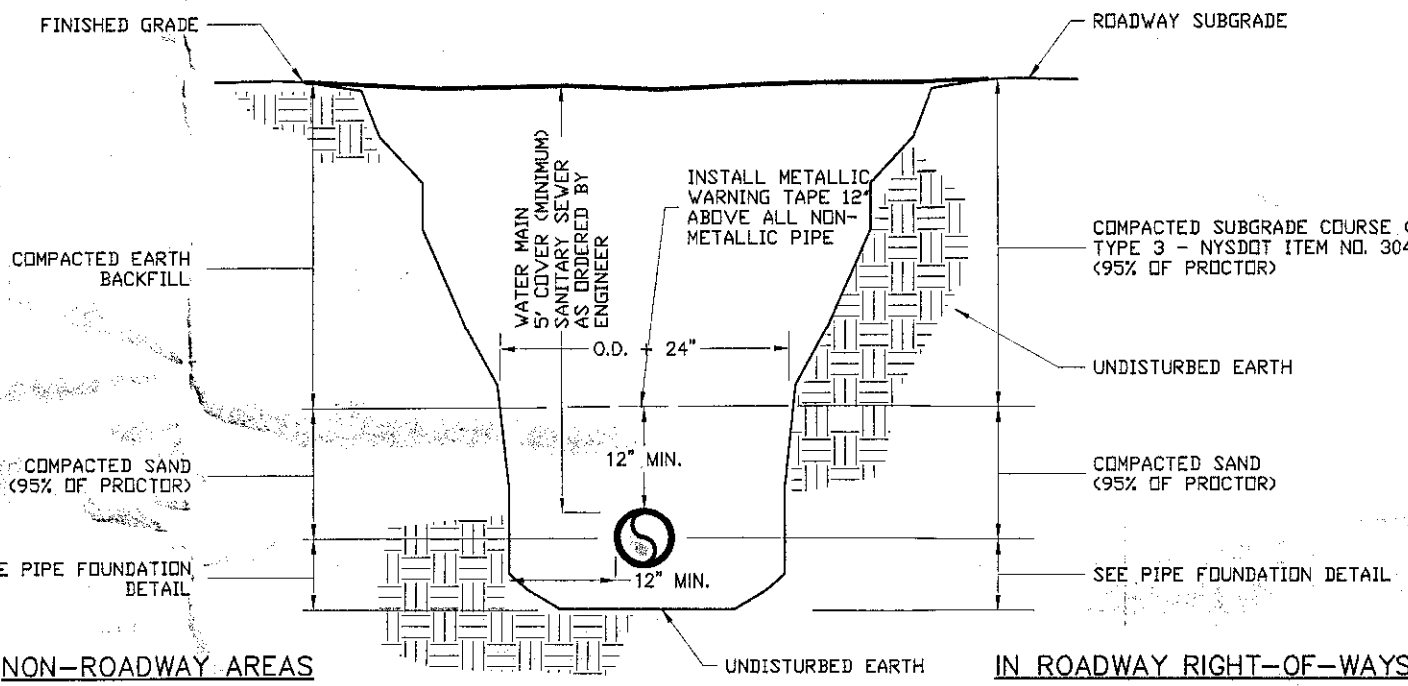


CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD
FENCE: WOVEN WIRE 14 1/2 GA. 6" MAX. MESH OPENING
FILTER CLOTH: FILTER X MIDWEST 100X, STABILINKA 1140N OR APPROVED EQUAL
GEOTAB, ENVIRONMENT, OR APPROVED EQUAL MAY BE USED IN LIEU OF THE ABOVE METHOD PROVIDED THAT THE UNIT IS INSTALLED PER DETAILS SHOWN ABOVE

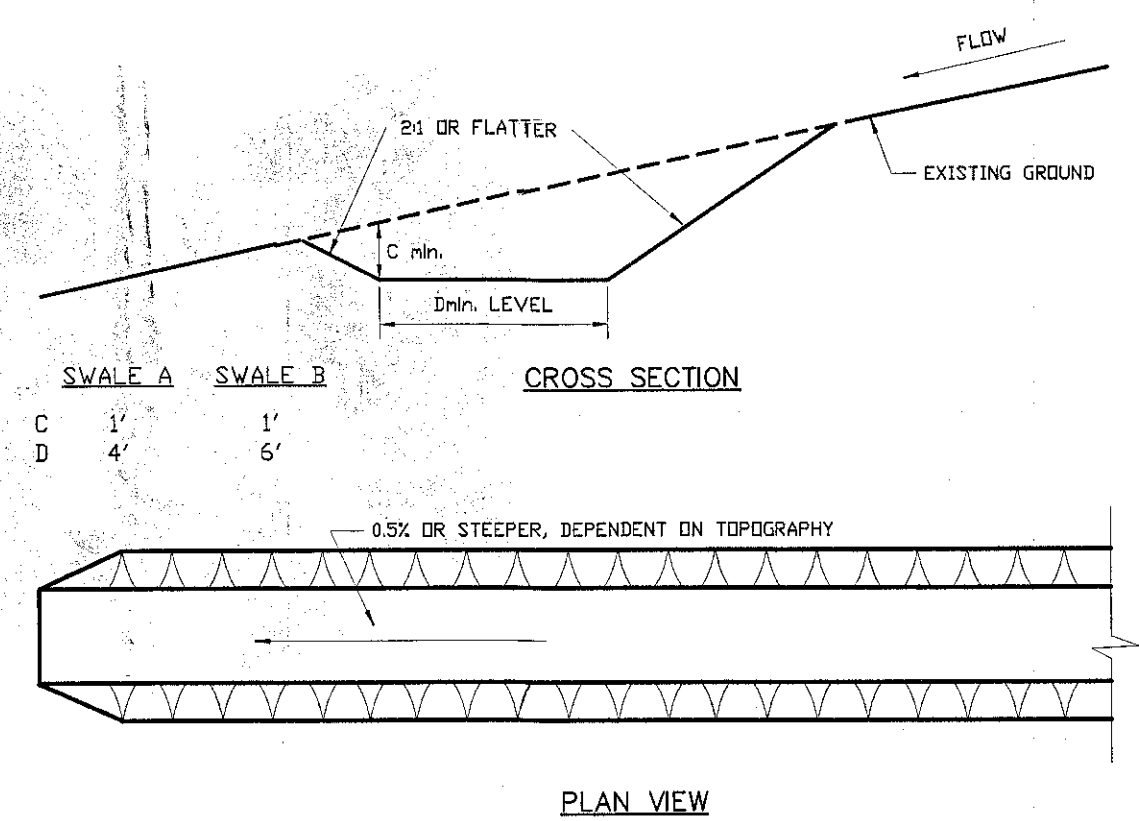
SILT FENCE

SCALE: NONE



TYPICAL TRENCH DETAIL

SCALE: NONE

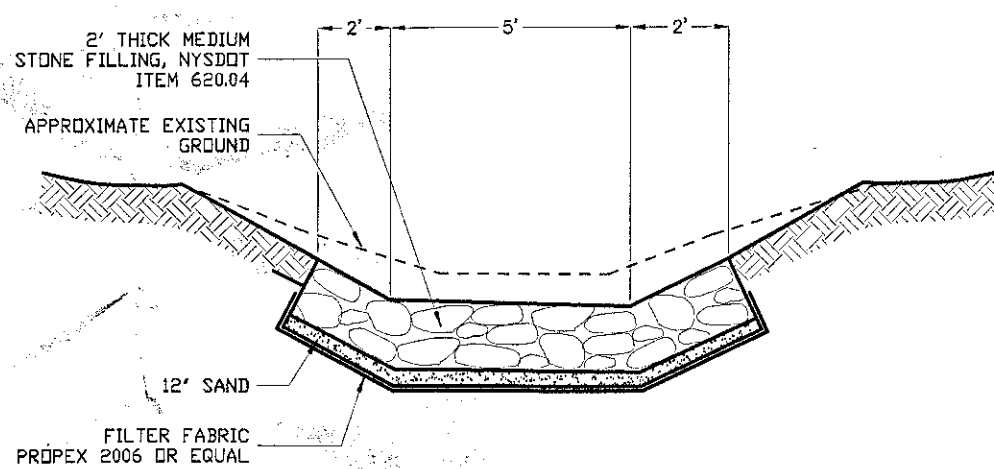


CONSTRUCTION SPECIFICATIONS

- ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
 - DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
 - DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSION VELOCITY.
 - ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
 - THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION, AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPAIR NORMAL FLOW.
 - FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
 - ALL EARTH REMOVED, AND NOT NEEDED ON CONSTRUCTION, SHALL BE PLACED SUCH THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
 - STABILIZATION SHALL BE AS PER THE CHART BELOW:
- | TYPE OF TREATMENT | CHANNEL GRADE | A (<5% OR LESS) | B (<5 AC - 10 AC) |
|-------------------|---------------|----------------------------------|--|
| 1 | 0.5-3.0% | SEED AND STRAW MULCH | SEED AND STRAW MULCH |
| 2 | 3.1-5.0% | SEED AND STRAW MULCH | SEED AND STRAW MULCH EXCELSDIR |
| 3 | 5.1-8.0% | SEED WITH JUTE OR EXCELSDIR, SDD | LINED WITH 4-8" RIP-RAP RECYCLED CONCRETE EQUIVALENT |
| 4 | 8.1-20% | LINED WITH 4-8" RIP-RAP | ENGINEERED DESIGN |
9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

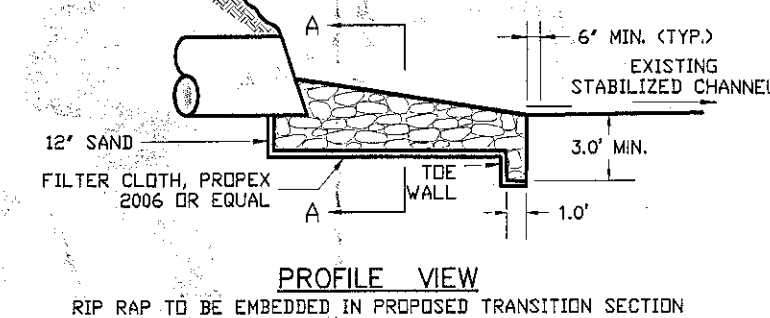
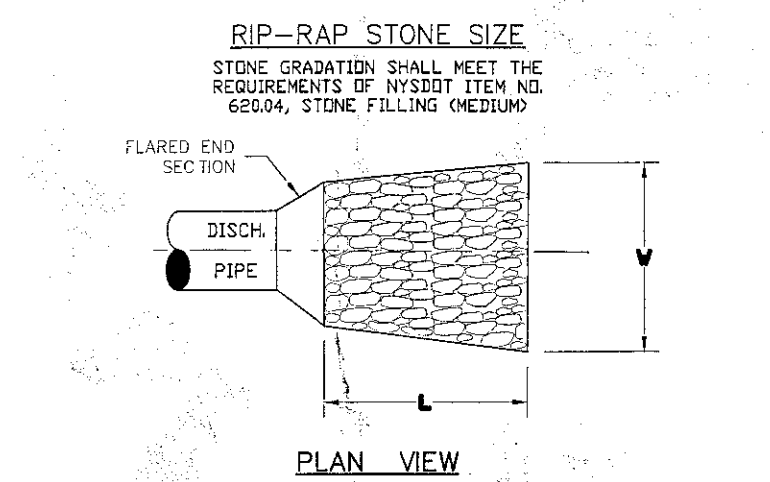
TEMPORARY DIVERSION SWALE DETAIL

SCALE: NONE



RIP-RAP DITCH SECTION

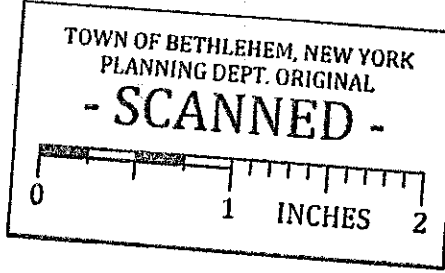
SCALE: NONE



- RIP-RAP NOTES:
- MATERIALS SHALL CONTAIN A SUFFICIENT AMOUNT OF STONES SMALLER THAN THE AVERAGE STONE SIZE TO FILL THE SPACE BETWEEN THE LARGER STONES.
 - THE STONES SHALL BE PLACED SO THAT THE DIMENSION IS APPROXIMATELY EQUAL TO THE LAYER THICKNESS AND IS PERPENDICULAR TO THE SLOPE SURFACE AND THAT THE WEIGHT OF THE STONE IS CARRIED BY THE UNDERLYING MATERIAL AND NOT BY THE ADJACENT STONES. ON SLOPES, THE LARGEST STONES SHALL BE PLACED AT THE BOTTOM OF THE SLOPE. THE DRY RIP RAP SHALL BE PROPERLY ALIGNED AND PLACED SO AS TO MINIMIZE VOID SPACES BETWEEN ADJACENT STONES. THE SPACES BETWEEN THE STONE SHALL BE FILLED WITH SPALLS OF SUITABLE SIZE.

RIP-RAP OUTLET PROTECTION

SCALE: NONE



CULVERT	DIA.	L	W	D ₅₀
ES-15.1	12"	7	7	7
ES-91.1	48"	7	7	7
ES-12.1	24"	7	7	7
ES-29.1	12"			
ES-19.1	18"			
ES-38.1	30"			
ES-58.1	12"			
ES-62.1	48"			

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THE VAN DYKE SPINNEY COMMUNITY CENTER
TOWN OF BETHLEHEM, COUNTY OF ALBANY
STATE OF NEW YORK

SITE DETAILS			
DATE	CHECKED BY	SCALE	AS SHOWN
04/01/2015	JDF	1" = 10'	
DATE	REVISION		

DRAWING NUMBER: 5/8
APR: 14-23