

## iSWM Construction Controls Standard Details

### Addendum to: iSWM Technical Manual - Construction Controls

The following is a selection of iSWM construction control BMP schematics chosen to be provided in standard details. Details 1-10 were revised in 2018, and details 11-20 were revised in 2019.

- 1. ROCK CHECK DAMS
- 2. TEMPORARY EROSION CONTROL BLANKETS
- 3. DEWATERING CONTROLS
- 4. FILTER TUBE CURB INLET PROTECTION
- 5. HOG WIRE WEIR CURB INLET PROTECTION
- 6. CURB ROCK SOCK ON-GRADE CURB INLET PROTECTION
- 7. FILTER TUBE AREA INLET PROTECTION
- 8. SEDIMENT BASIN WITH OVERFLOW RISER
- 9. SILT FENCE
- 10. STABILIZED CONSTRUCTION EXIT
- 11. TEMPORARY EROSION CONTROL BLANKETS
- 12. TURF REINFORCEMENT MATS
- 13. VELOCITY DISSIPATION DEVICE
- 14. FILTER FABRIC AREA INLET PROTECTION
- 15. EXCAVATED INLET PROTECTION
- 16. EXCAVATED STONE OUTLET SEDIMENT TRAP
- 17. CONCRETE WASHOUT CONTAINMENT
- 18. GROUTED ROCK RIP-RAP DETAIL
- 19. TRASH SCREEN/CATCH DETAIL
- 20. TRASH RACK

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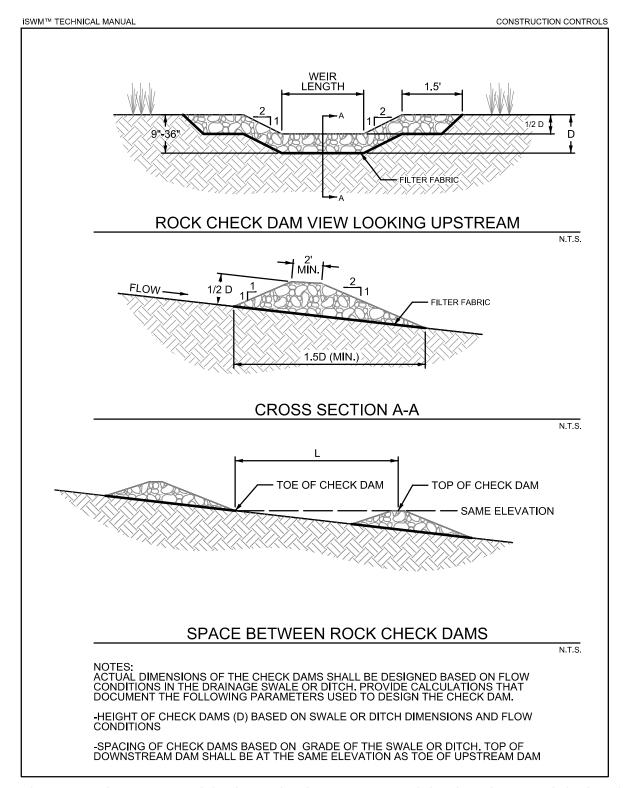


FIGURE 2.1 STANDARD CONSTRUCTION DETAIL - ROCK CHECK DAMS (1 OF 2)

### **ROCK CHECK DAM GENERAL NOTES:**

- 1. SEE NCTCOG STANDARD SPECIFICATIONS (2017), SECTION 202.9 CHECK DAM (ROCK).
- 2. STONE SHALL BE WELL GRADED WITH SIZE RANGE FROM 1 1/2 TO  $\,3\,$  1/2 INCHES IN DIAMETER DEPENDING ON EXPECTED FLOWS.
- 3. THE CHECK DAM SHALL BE INSPECTED AS SPECIFIED IN THE SWPPP AND SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
- 4. WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD OF THE HEIGHT OF THE CHECK DAM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF PROPERLY.
- 5. WHEN THE SITE HAS ACHIEVED FINAL STABILIZATION OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED, THE CHECK DAM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

FIGURE 2.1 NOTES ON ROCK CHECK DAM (2 OF 2)

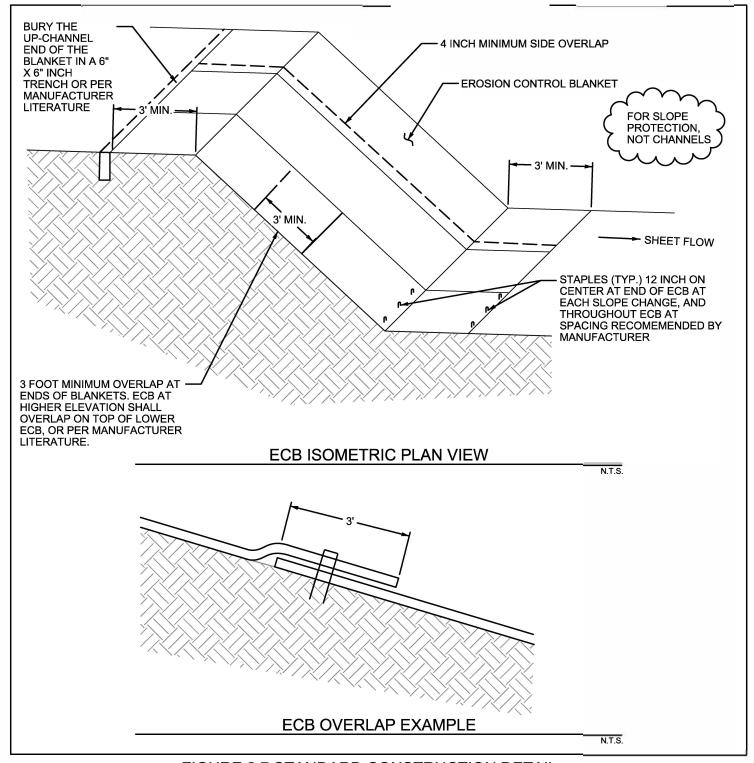


FIGURE 2.7 STANDARD CONSTRUCTION DETAIL - TEMPORARY EROSION CONTROL BLANKETS (1 OF 2)

### **EROSION CONTROL BLANKETS GENERAL NOTES:**

- 1. SEE NCTCOG STANDARD SPECIFICATIONS (2017) SECTION 202.15.
- 2. PRIOR TO THE INSTALLATION OF ANY EROSION CONTROL BLANKETS, ALL ROCKS, DIRT CLODS, STUMPS, ROOTS, TRASH AND ANY OTHER OBSTRUCTIONS THAT WOULD PREVENT THE BLANKET FROM LYING IN DIRECT CONTACT WITH THE SOIL SHALL BE REMOVED. ANCHOR TRENCHING SHALL BE LOCATED ALONG THE ENTIRE PERIMETER OF THE INSTALLATION AREA, EXCEPT FOR SMALL AREAS WITH LESS THAN 2% SLOPE.
- 3. INSTALLATION AND ANCHORING SHALL CONFORM TO THE RECOMMENDATIONS SHOWN WITHIN THE MANUFACTURER'S PUBLISHED LITERATURE FOR THE APPROVED EROSION CONTROL BLANKET. PARTICULAR ATTENTION MUST BE PAID TO JOINTS AND OVERLAPPING MATERIAL.
- 4. IN ABSENCE OF MANUFACTURE'S LITERATURE, A MINIMUM 11-GUAGE WIRE STAPLES, 6-INCHES IN LENGTH AND 1-INCH WIDTH WILL BE USED.
- 5. AFTER APPROPRIATE INSTALLATION, THE BLANKETS SHOULD BE CHECKED FOR UNIFORM CONTACT WITH THE SOIL, SECURITY OF THE LAP JOINTS, AND FLUSHNESS OF THE STAPLES WITH THE GROUND.
- 6. INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP.

FIGURE 2.7 NOTES ON TEMPORARY EROSION CONTROL BLANKETS (2 OF 2)

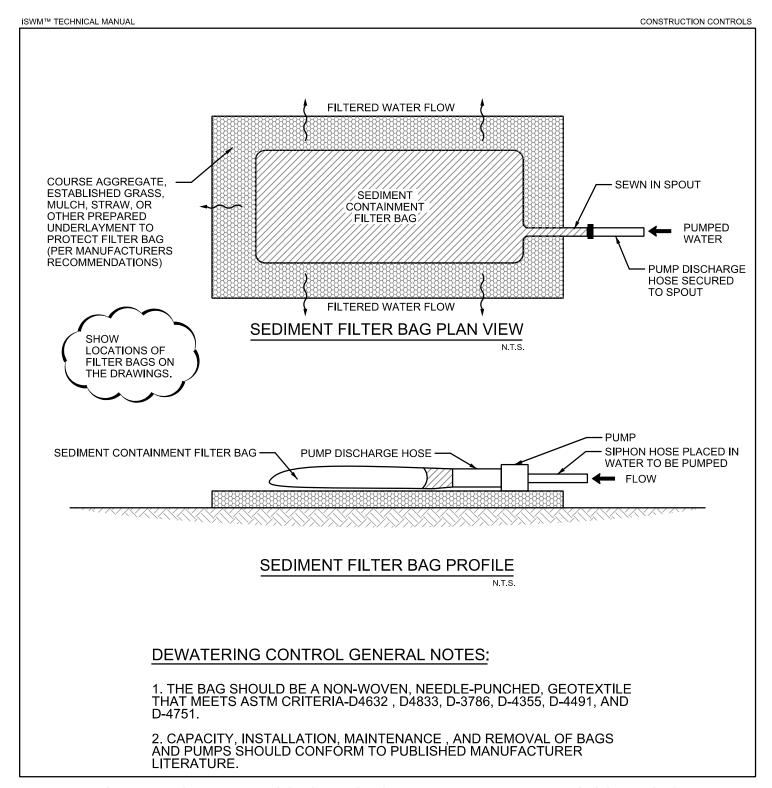


FIGURE 3.4 STANDARD CONSTRUCTION DETAIL - DEWATERING CONTROLS

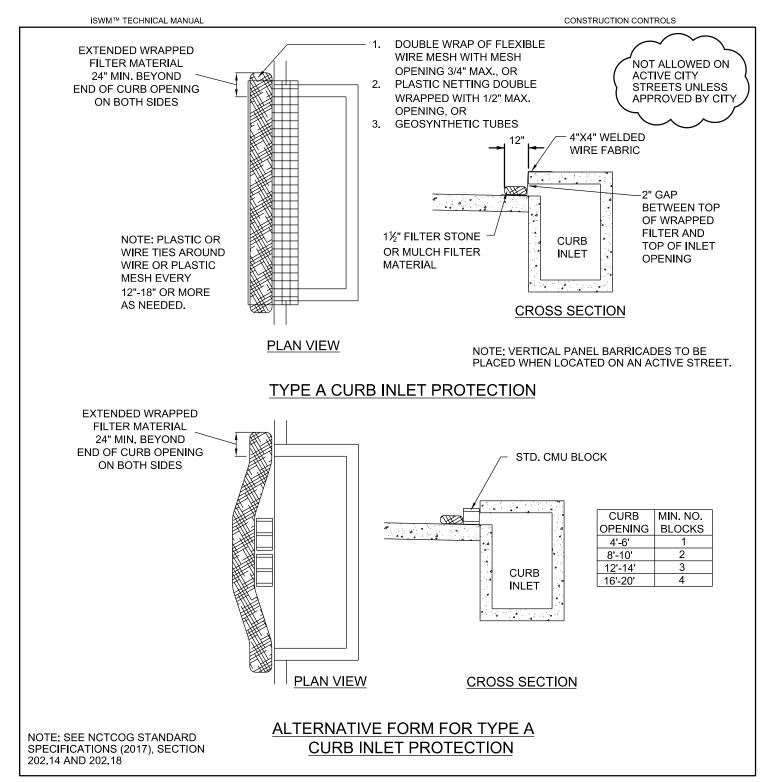
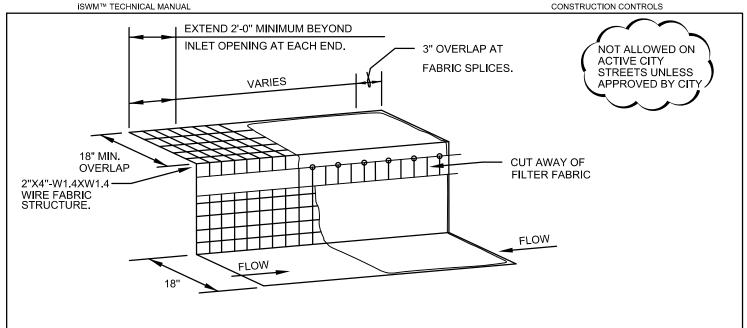
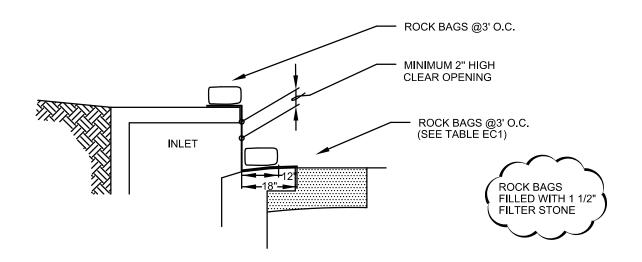


FIGURE 3.6 STANDARD CONSTRUCTION DETAIL - FILTER TUBE CURB INLET PROTECTION



# HOG WIRE WEIR CURB INLET PROTECTION ISOMETRIC VIEW N.T.S.



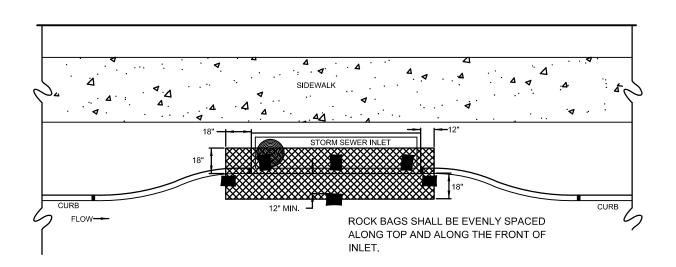
### **HOG WIRE WEIR CURB INLET PROTECTION CROSS SECTION**

N.T.S.

NOTE: THIS CONTROL WILL DECREASE THE CAPACITY OF THE INLET. IT SHALL ONLY BE USED WHEN AN ENGINEER HAS DETERMINED THERE IS ADEQUATE STORAGE OR POSITIVE OVERFLOW.

REFERENCE: NCTCOG STANDARD SPECIFICATIONS (2017), SECTION 202.14

FIGURE 3.7 STANDARD CONSTRUCTION DETAIL - HOG WIRE WEIR CURB INLET PROTECTION (1 OF 2)



### HOG WIRE WEIR CURB INLET PROTECTION PLAN VIEW

N.T.S.

### TABLE EC1

INLET OPENING	MINIMUM NUMBER OF ROCK BAGS	
	TOP	FRONT
5'	2	3
10'	3	3
15'	3	4
20'	4	4

### NOTES:

- 1.A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL TO PROVIDE A 2" MINIMUM CLEAR OPENING, FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
- 2, INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2". 3, INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

FIGURE 3.7 STANDARD CONSTRUCTION DETAIL - HOG WIRE WEIR CURB INLET PROTECTION (2 OF 2)

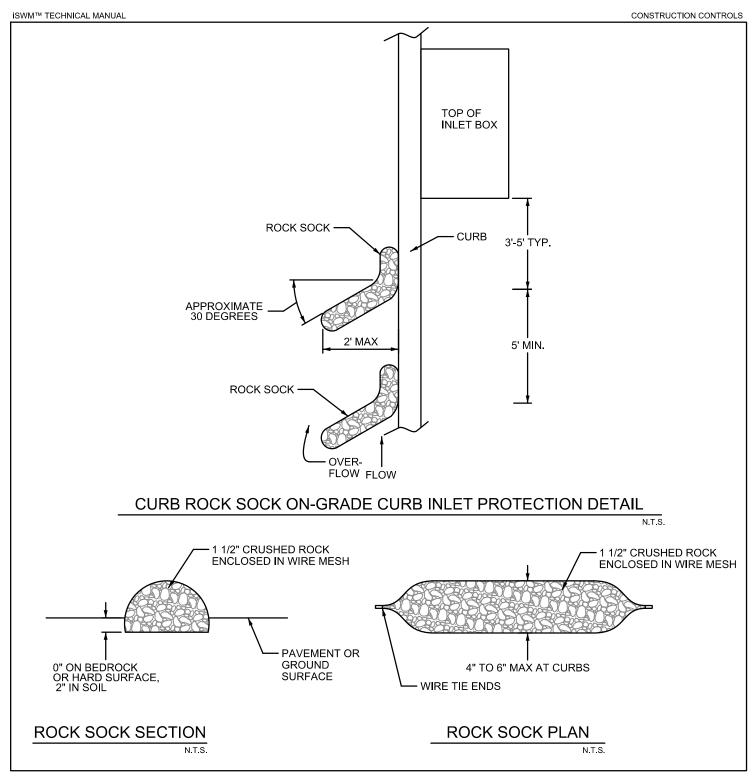


FIGURE 3.9 STANDARD CONSTRUCTION DETAIL - CURB ROCK SOCK ON-GRADE CURB INLET PROTECTION (1 OF 2)

# CURB ROCK SOCK ON-GRADE CURB INLET PROTECTION GENERAL NOTES: 1. THIS DETAIL IS INTENDED FOR USE WITH ON-GRADE INLETS (NOT A LOW POINT) TO TRAP SEDIMENT. $2.\,\mathrm{DO}$ NOT INSTALL ON INLETS WHERE THE ROCK SOCKS WOULD EXTEND INTO AN ACTIVE TRAVEL LANE. 3. ROCK SOCKS MAY BE USED ON PAVED OR UNPAVED SURFACES. 4. MAXIMUM ROCK SOCK DIAMETER 4" TO 6". 5. MINIMUM OF 2 CURB ROCK SOCKS.

FIGURE 3.9 STANDARD CONSTRUCTION DETAIL - CURB ROCK SOCK ON-GRADE CURB INLET PROTECTION (2 OF 2)

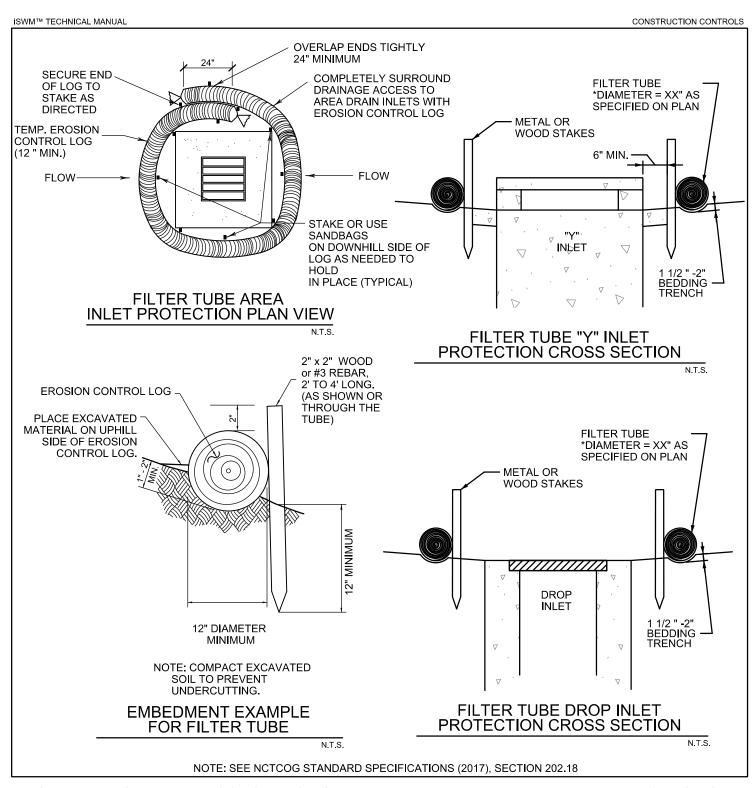


FIGURE 3.13 STANDARD CONSTRUCTION DETAIL - FILTER TUBE AREA INLET PROTECTION

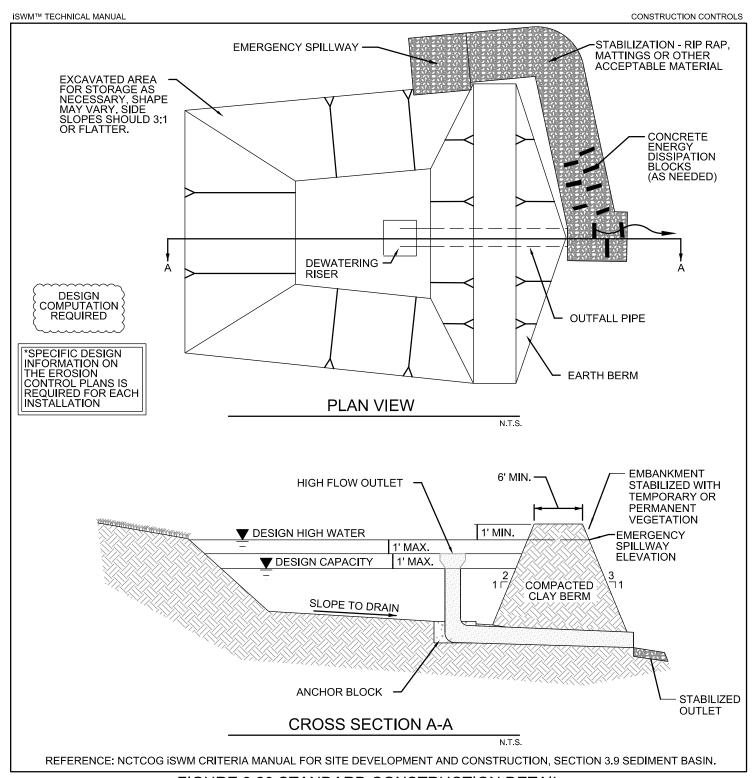


FIGURE 3.20 STANDARD CONSTRUCTION DETAIL - SEDIMENT BASIN WITH OVERFLOW RISER

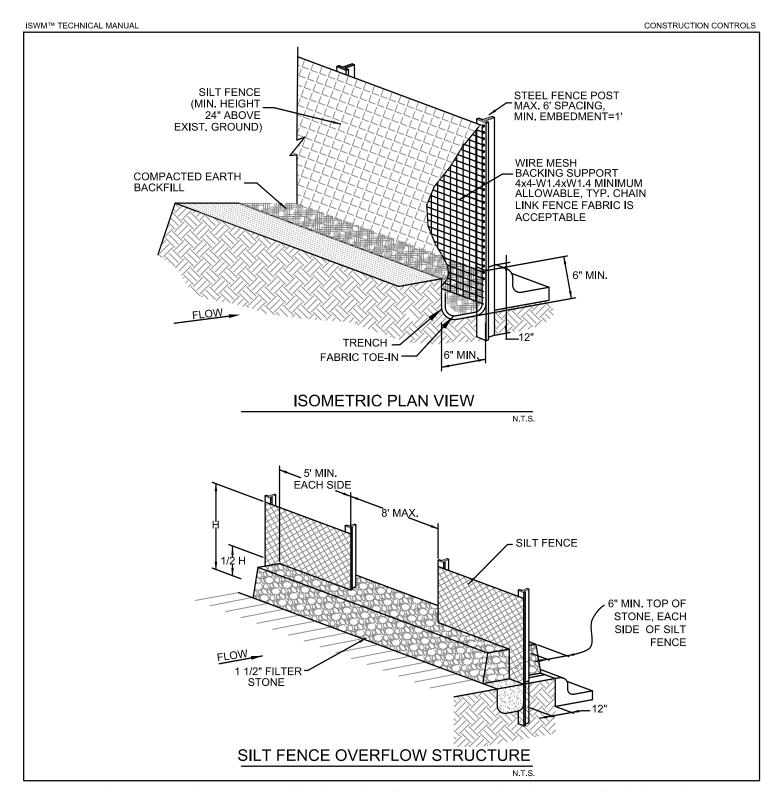


FIGURE 3.28 STANDARD CONSTRUCTION DETAIL - FOR SILT FENCE (1 OF 2)

### SILT FENCE GENERAL NOTES:

- 1. DESIGN SHALL SHOW ON THE DRAWINGS THE LOCATIONS WHERE OVERFLOW STRUCTURES SHALL BE INSTALLED. OVERFLOW STRUCTURES ARE REQUIRED AT ALL LOW POINTS AND AT A SPACING OF APPROXIMATELY 300 FEET WHERE NO LOW POINT IS APPARENT.
- 2. DESIGNER SHALL SHOW ON THE DRAWINGS THE LOCATIONS WHERE SILT FENCE IS TO BE TURNED UPSLOPE AT THE ENDS. UPSLOPE LENGTHS SHALL BE A MINIMUM OF 10 FEET.
- 3. POST WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
- 4. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
- 5. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- 6. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WIRE BACKING, WHICH IN TURN IS ATTACHED TO THE FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
- 7. INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- 8. SILT FENCE SHALL BE REMOVED WHEN FINAL STABILIZATION IS ACHIEVED OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED.
- 9. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.
- 10. SEE NCTCOG STANDARD SPECIFICATIONS (2017), SECTION 202.5

FIGURE 3.28 NOTES FOR SILT FENCE (2 OF 2)

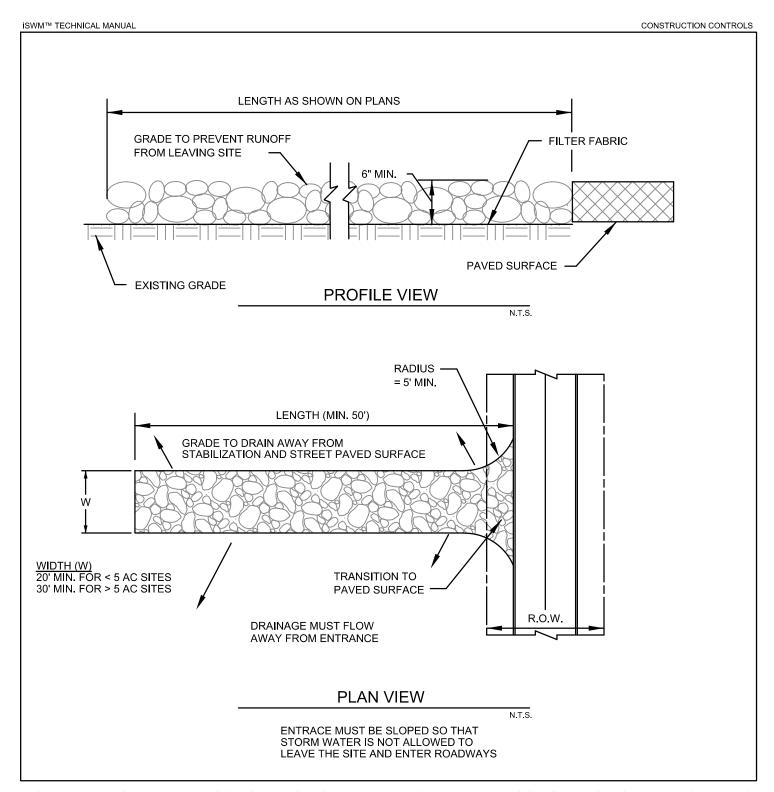


FIGURE 3.29 STANDARD CONSTRUCTION DETAIL - STABILIZED CONSTRUCTION EXIT (1 OF 2)

### STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:

- 1. SEE NCTCOG STANDARD SPECIFICATIONS (2017), SECTION 202.11
- 2. THE THICKNESS SHALL NOT BE LESS THAN 6 INCHES.
- 3. STONE SHALL BE 3 TO 5 INCH DIAMETER COURSE AGGREGATE, NO CRUSHED PORTLAND CEMENT CONCRETE ALLOWED.
- 4. LENGTH SHALL BE SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 50 FEET.
- 5. THE WIDTH SHALL BE NO LESS THAN 20' FOR SITES LESS THAN 5 AC, AND 30' FOR SITES GREATER THAN 5 AC, AT ALL POINTS OF INGRESS OR EGRESS.
- 6. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
- 7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.
- 8. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
- 9. INSPECTION SHALL BE SPECIFIED IN THE SWPPP.

FIGURE 3.29 NOTES FOR STABILIZED CONSTRUCTION EXIT (2 OF 2)

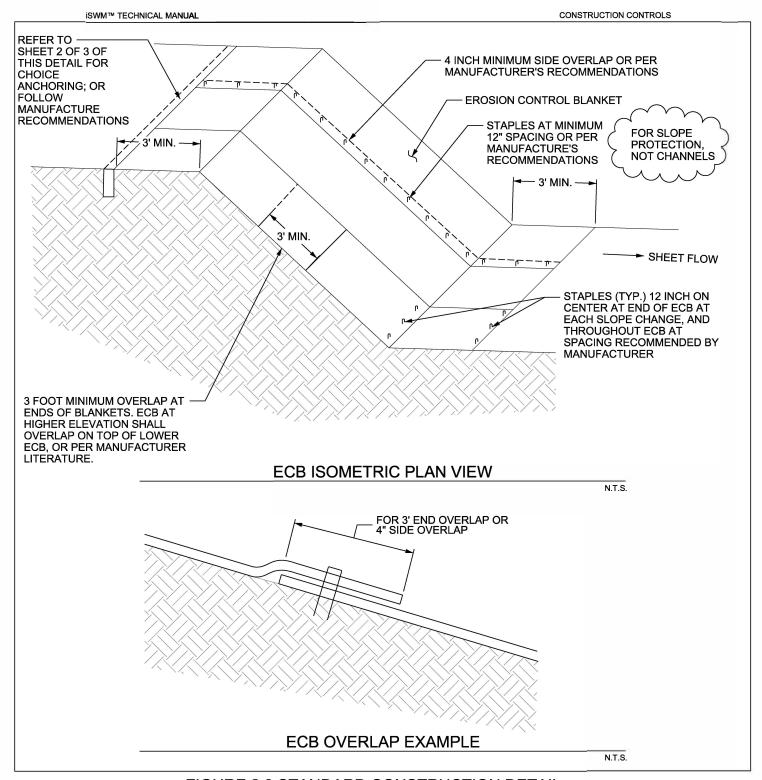


FIGURE 2.8 STANDARD CONSTRUCTION DETAIL - TEMPORARY EROSION CONTROL BLANKETS (1 OF 3)

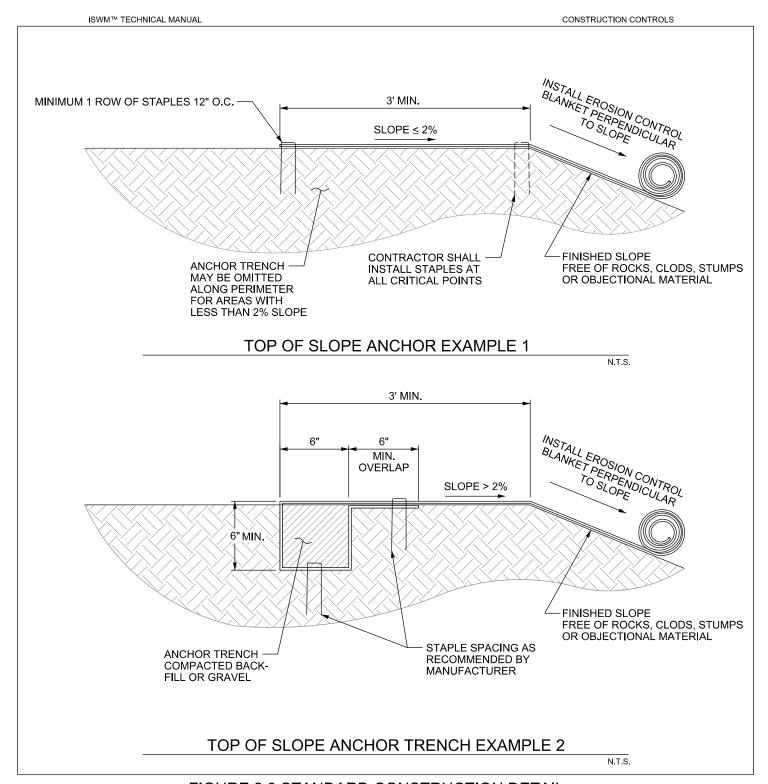


FIGURE 2.8 STANDARD CONSTRUCTION DETAIL - ANCHOR EXAMPLES FOR TEMPORARY EROSION CONTROL BLANKETS (2 OF 3)

### **EROSION CONTROL BLANKETS GENERAL NOTES:**

- 1. SEE NCTCOG STANDARD SPECIFICATIONS (2017) SECTION 202.15.
- 2. EROSION CONTROL BLANKET SHALL BE INSTALLED VERTICALLY DOWN SLOPE AS SHOWN.
- 3. PRIOR TO THE INSTALLATION: ALL ROCKS, DIRT CLODS, STUMPS, ROOTS, TRASH AND ANY OTHER OBSTRUCTIONS THAT WOULD PREVENT THE BLANKET FROM DIRECT CONTACT WITH THE FINISHED SLOPE, SHALL BE REMOVED.
- 4. ANCHORING METHODS PROVIDED ARE EXAMPLES OF THE TYPE OF ANCHORING THE ECB MANUFACTURER MAY RECOMMEND. ALWAYS FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR ANCHORING BASED ON THE SITE-SPECIFIC APPLICATION.
- 5. INSTALLATION AND ANCHORING SHALL CONFORM TO THE RECOMMENDATIONS SHOWN WITHIN THE MANUFACTURER'S PUBLISHED LITERATURE FOR THE APPROVED EROSION CONTROL BLANKET. PARTICULAR ATTENTION MUST BE PAID TO JOINTS AND OVERLAPPING MATERIAL. AT A MINIMUM, THE END OF EACH ROLL OF ECB SHALL OVERLAP THE NEXT ROLL BY 3 FEET AND THE SIDES OF ROLLS SHALL OVERLAP 4 INCHES.
- 6. IN ABSENCE OF MANUFACTURER'S LITERATURE, A MINIMUM 11-GUAGE WIRE STAPLES, 6-INCHES IN LENGTH AND 1-INCH WIDTH WILL BE USED.
- 7. AFTER APPROPRIATE INSTALLATION, THE BLANKETS SHOULD BE CHECKED FOR UNIFORM CONTACT WITH THE SOIL, SECURITY OF THE LAP JOINTS, AND FLUSHNESS OF THE STAPLES WITH THE GROUND.
- 8. INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP.

FIGURE 2.8 NOTES ON TEMPORARY EROSION CONTROL BLANKETS (3 OF 3)

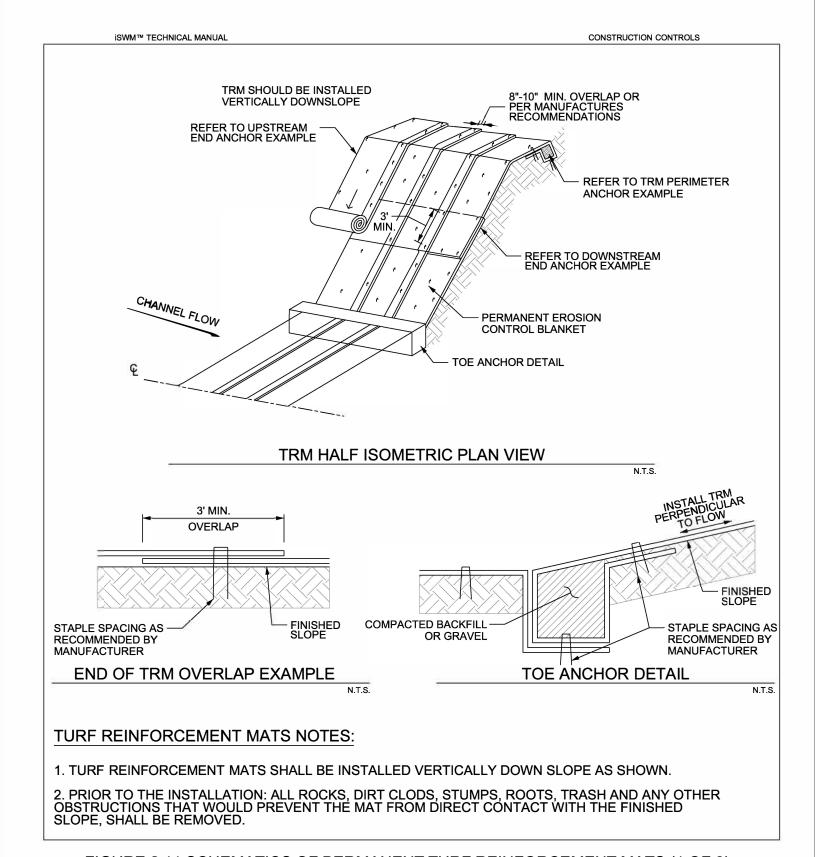


FIGURE 2.11 SCHEMATICS OF PERMANENT TURF REINFORCEMENT MATS (1 OF 3)

ISWM™ TECHNICAL MANUAL CONSTRUCTION CONTROLS REFER TO UPSTREAM END ANCHOR EXAMPLE FLOW REFER TO END OF TRM ANCHOR EXAMPLE 3' MIN. OVERLAP 1 CONTINUOUS PIECE TRM WIDTH VARIES BY MANUFACTURER REFER TO DOWNSTREAM END ANCHOR EXAMPLE 18" MIN. OVERLAP AT LEAST 1/3 THE HEIGHT OF SLOPE LONGITUDINAL SEAMS NOT PERMITTED WITHIN THE FLOWLINE OF THE CHANNEL TRM ISOMETRIC PLAN VIEW FOR SMALL CHANNELS/DITCHES NOTE: LONGITUDINAL INSTALLATION OF TURF REINFORCEMENT MAT PERMITTED ONLY FOR CHANNEL WIDTHS 0' TO 8'. CONTRACTOR SHALL VERIFY MAT MEETS OVERLAP AND SLOPE REQUIREMENTS STATED ABOVE.

FIGURE 2.11 SCHEMATICS OF PERMANENT TURF REINFORCEMENT MATS (2 OF 3)

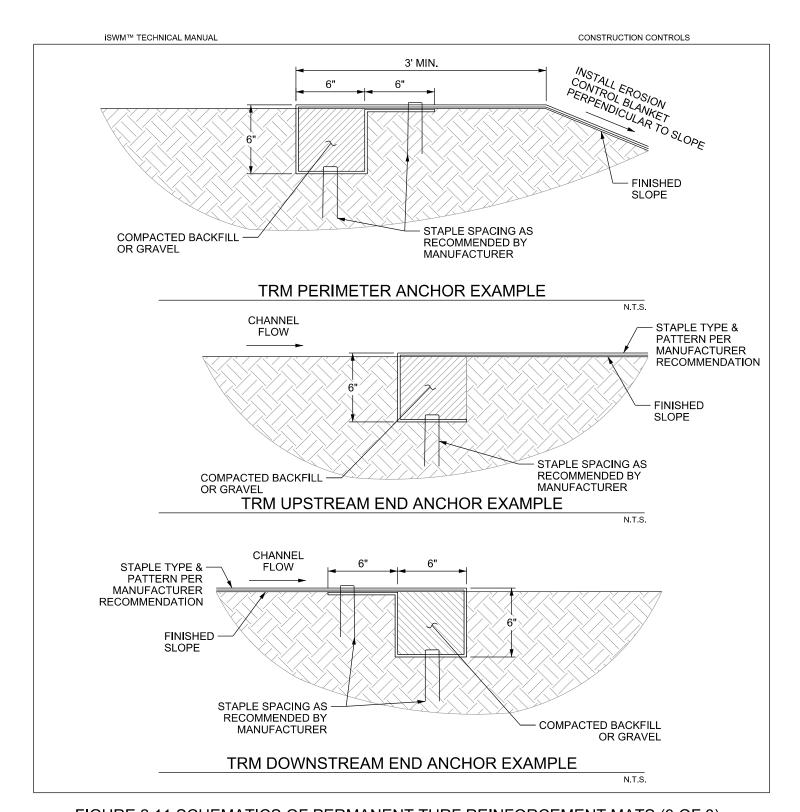
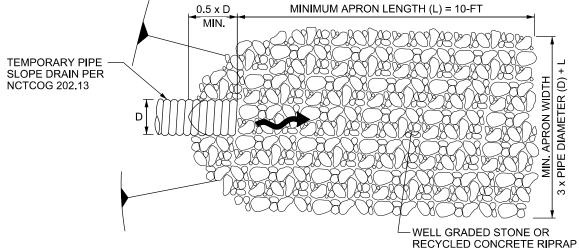


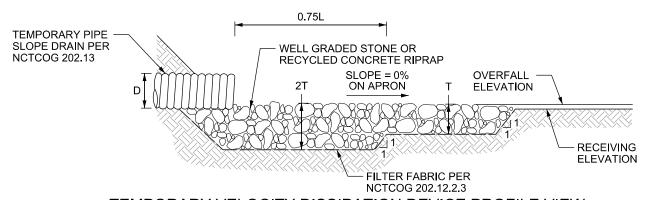
FIGURE 2.11 SCHEMATICS OF PERMANENT TURF REINFORCEMENT MATS (3 OF 3)





### TEMPORARY VELOCITY DISSIPATION DEVICE PLAN VIEW

N.T.S.



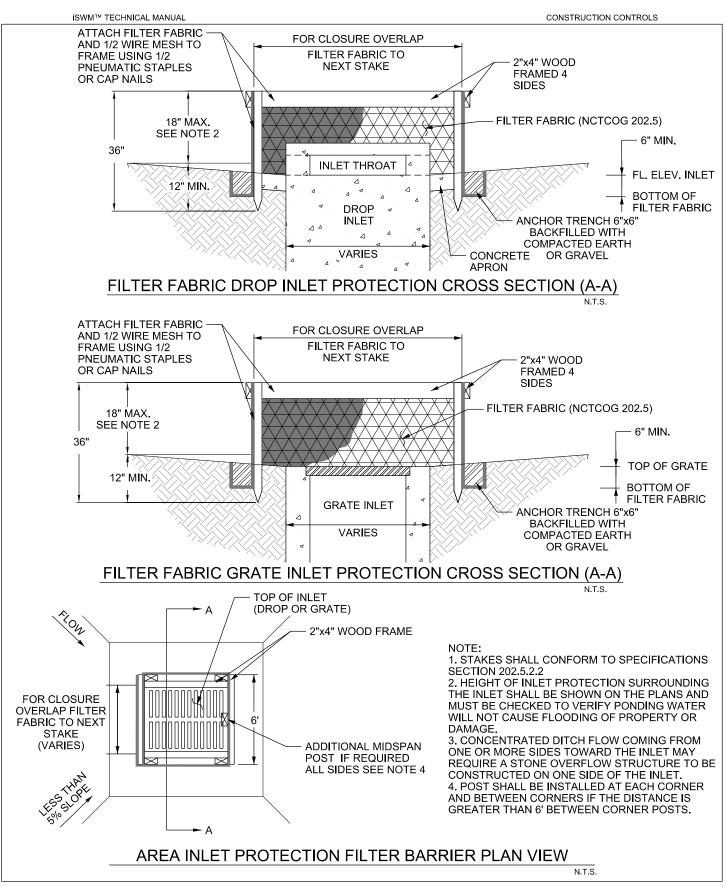
### TEMPORARY VELOCITY DISSIPATION DEVICE PROFILE VIEW

N.T.S.

NOTE: DIMENSIONS OF THE RIPRAP APRON SHALL BE DESIGNED BASED ON FLOW CONDITIONS. TEMPORARY CONTROL DESIGN STORM (2-YEARS, 24-HOUR). PROVIDE CALCULATIONS THAT DOCUMENT THE FOLLOWING PARAMETERS USED TO DESIGN THE APRON.

- PIPE DIAMETER (OR EQUIVALENT FOR FLUME, SWALE, ETC.), D, FEET
- $\bullet$  DISCHARGE VELOCITY FROM DRAINAGE STRUCTURE,  $V_{\mbox{\scriptsize pipe}}$  FT/S
- DETERMINE GRADATION FOR d<sub>50</sub> WELL GRADED STONE OR RECYCLED CONCRETE RIPRAP
- ullet MEDIAN STONE DIAMETER  ${
  m d}_{50}$  AND MAXIMUM STONE DIAMETER  $({
  m d}_{100})$ , FEET

FIGURE 2.13 SCHEMATICS OF VELOCITY DISSIPATION DEVICE



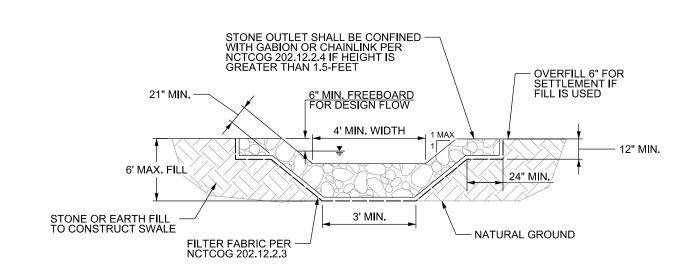
ISWM™ TECHNICAL MANUAL CONSTRUCTION CONTROLS 1½" FILTER STONE PER NCTCOG 504.2.2.1 12" FINISHED GROUND MIN. 1' MIN. 2' MAX. **DROP** SEDIMENT 12" MIN. INLET 3" MÌŃ. **STORAGE VOLUME AS** WEEP HOLES (3/4" PMIN.) AS REQUIRED. WEEP HOLES **DETERMINED** FILTER FABRIC PER BY ENGINEER. NCTCOG 202.12.2.3 SEE NOTE 1. TO BE FILLED WITH GROUT PRIOR TO BACKFILLING STORAGE AREA. **EXCAVATED INLET PROTECTION "Y" INLET SECTION A-A** N.T.S. 1½" FILTER STONE 12' FINISHED GROUND PER NCTCOG 504.2.2.1 MIN. 2 MAX 1' MIN. 2' MAX. **SEDIMENT GRATE INLET** 12" MIN. STORAGE 3" MIN. **VOLUME AS DETERMINED** WEEP HOLES (3/4"ΦMIN.) AS REQUIRED. WEEP HOLES FILTER FABRIC PER BY ENGINEER. NCTCOG 202.12.2.3 TO BE FILLED WITH GROUT SEE NOTE 1. PRIOR TO BACKFILLING STORAGE AREA. **EXCAVATED INLET PROTECTION GRATE INLET SECTION A-A** N.T.S. INLET (GRATE OR DROP) Flow NOTE: 1. STORAGE VOLUME SHALL BE DESIGN STORM VOLUME OR 3,600 CUBIC FEET PER ACRE 2 MAX DISTURBED. 2. CONCENTRATED DITCH FLOW COMING FROM ONE OR MORE SIDES TOWARD THE INLET MAY REQUIRE A STONE OVERFLOW STRUCTURE TO BE CONSTRUCTED ON ONE SIDE OF THE INLET. Flow 1½" FILTER STONE **EXCAVATED INLET PROTECTION PLAN VIEW** N.T.S.

FIGURE 3.11 SCHEMATICS OF EXCAVATED INLET PROTECTION

ISWM™ TECHNICAL MANUAL CONSTRUCTION CONTROLS TO STATE OF THE ST В <u>2' MIN.</u> WIDTH .5 MAX VARILES 1 A CON 3 (TYP.) 6-FOOT MAX 2' MIN. REVERSE SĻOPE В EXCAVATED STONE OUTLET SEDIMENT TRAP ISOMETRIC VIEW NOTE: ACTUAL DIMENSIONS OF THE SEDIMENT TRAP SHALL BE DESIGNED BASED ON FLOW CONDITIONS AND SITE TOPOGRAPHY. PROVIDE CALCULATIONS THAT DOCUMENT THE FOLLOWING PARAMETER USED TO DESIGN THE TRAP.

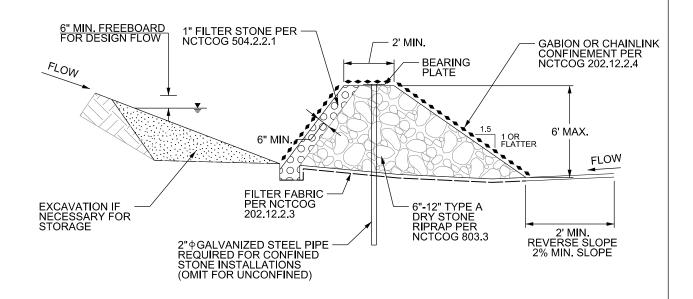
•SIZE OF CONTRUBUTING DRAINAGE AREA
•DESIGN STORM VOLUME AND FLOW RATE AT THE TRAP
•HEIGHT, SLOPE, AND LENGTH OF STONE OUTLET
•STORAGE VOLUME
•EXTENT OF GRADING TO PROVIDE THE CONTROLLED OUTLET

FIGURE 3.30 SCHEMATICS OF EXCAVATED STONE OUTLET SEDIMENT TRAP (1 OF 2)



### EXCAVATED STONE OUTLET SEDIMENT TRAP VIEW LOOKING UPSTREAM (A-A)

N.T.S.



### EXCAVATED STONE OUTLET SEDIMENT TRAP SECTION VIEW (B-B)

I.T.S.

FIGURE 3.30 SCHEMATICS OF EXCAVATED STONE OUTLET SEDIMENT TRAP (2 OF 2)

ISWM™ TECHNICAL MANUAL CONSTRUCTION CONTROLS 10' MIN. EDGE OF PLASTIC LINING SANDBAG\* VARIES SEE DESIGN CRITERIA \*SANDBAGS MAY BE  $\mathbb{X}$ REPLACED BY A SOIL  $\mathbb{R}$ BERM TO ANCHOR THE PLASTIC LINING. 10 MIL. MINIMUM PLASTIC LINING **CONCRETE WASHOUT PLAN VIEW** N.T.S. 2' MIN. SANDBAG\* 10 MIL. MINIMUM PLASTIC LINING 3' MIN. **CONCRETE WASHOUT SECTION A-A** N.T.S.

### **CONCRETE WAHSOUT NOTES:**

- 1. WASHOUT AREA MUST BE CLEARLY MARKED WITH SIGNAGE NOTING THE WASHOUT AREA.
- 2. WASHOUT STRUCTURES SHALL BE CLEANED OUT WHEN THE STRUCTURE IS 75% FULL. TEMPORARY CONCRETE WASHOUT FACILITY SHOULD BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY.

FIGURE 4.1 SCHEMATICS OF CONCRETE WASHOUT CONTAINMENT

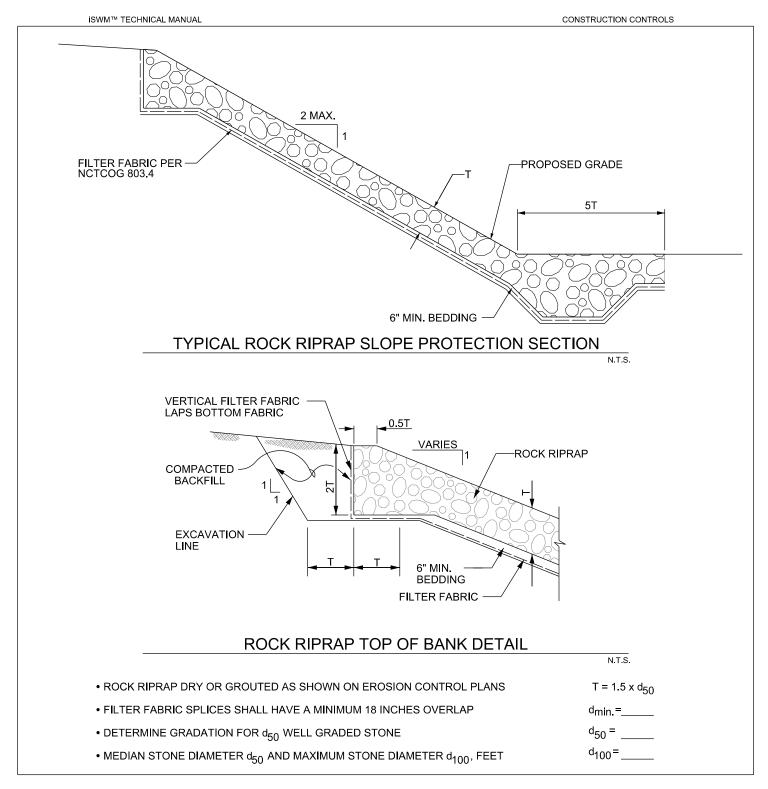


FIGURE X.XX RIPRAP SCHEMATICS OF ROCK RIPRAP (SHEET 1 OF 2)

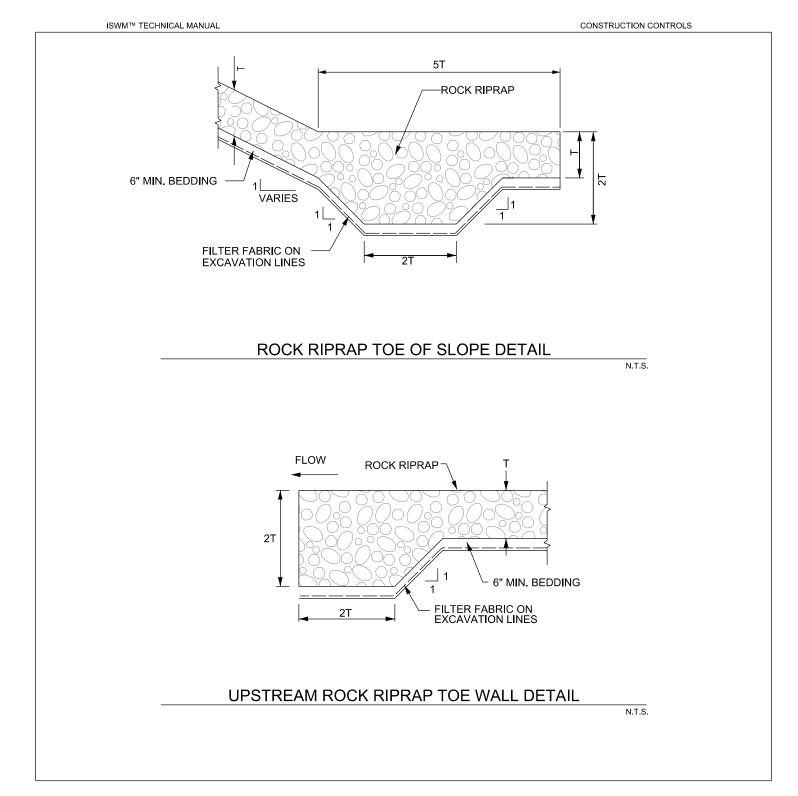


FIGURE X.XX RIPRAP SCHEMATICS OF ROCK RIPRAP (SHEET 2 OF 2)

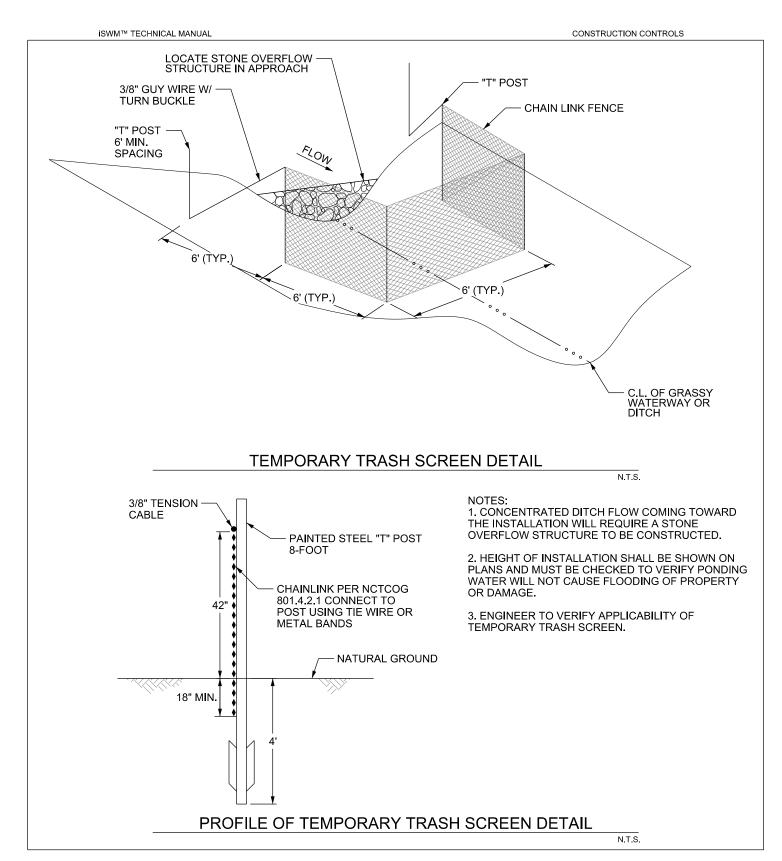
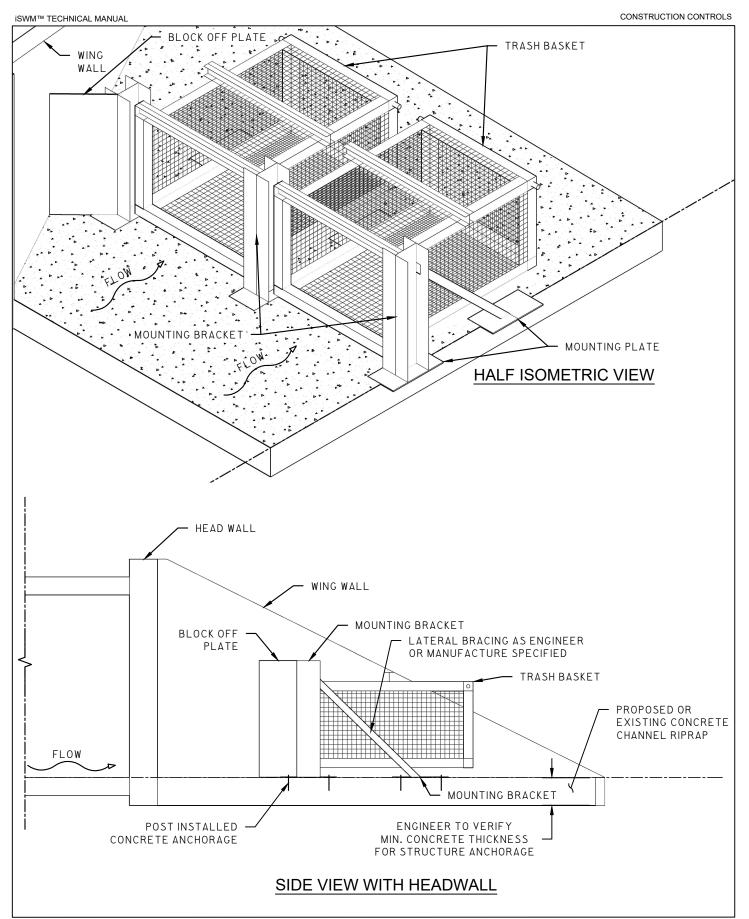


FIGURE X.XX TRASH SCREEN/CATCH DETAIL (SHEET 1 OF 2)

ISWM™ TECHNICAL MANUAL CONSTRUCTION CONTROLS EXISTING/PROPOSED INSTALL COLLAR ON HEADWALL OR STORM DRAIN OUTLET OPTIONAL WEIR CONFIGURATION DOWNSTREAM OF OUTFALL PRE-MANUFACTURED MESH BAG VARIES BY MANUFACTURER MINIMUM 20mm/0.75-INCH MESH OPENING **OUTLET TRASH SCREEN BAG** N.T.S.

FIGURE X.XX TRASH SCREEN/CATCH DETAIL (SHEET 2 OF 2)



iSWM™ TECHNICAL MANUAL CONSTRUCTION CONTROLS LIFTING I-BEAM LIFTING I-BEAM HINGE PIN FRONT OPEN SQUARE **TUBING** ROUND BAR MESH SQUARE TUBING ANGLE IRON TRASH BASKET TRASH BASKET FRONT VIEW **TOP VIEW** LIFTING I-BEAM ROUND BAR LIFTING MESH ANGLE IRON I-BEAM HINGE PIN HINGE PIN SQUARE TUBING ROUND BAR ANGLE IRON MESH TRASH BASKET TRASH BASKET SIDE VIEW ISOMETRIC VIEW MOUNTING BRACKET I-BEAM NOTES: 1. OVERALL SIZE AND LOCATION TO BE DETERMINED BY THE ENGINEER. 2. SIZE AND SPACING OF MESH VARIES AS NEEDED. SQUARE TUBING MOUNTING PLATE MOUNTING BRACKET