2. THE ADEQUACY OF THIS GESC PLAN LIES WITH THE ORIGINAL DESIGN ENGINEER. CHANGES TO DESIGN INTENT THAT MEET THE DEFINITION OF MAJOR MODIFICATIONS MUST GO THROUGH ORIGINAL DESIGN ENGINEER.

3. THE GESC PLAN SHALL BE CONSIDERED VALID FOR TWO (2) YEARS FROM THE DATE OF ACCEPTANCE BY SEMSWA, AFTER WHICH TIME THE PLAN SHALL BE VOID AND WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY SEMSWA. PLANS MUST CONFORM TO CURRENT REQUIREMENTS.

4. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY SEMSWA'S INSPECTION DIVISION. SEMSWA RESERVES THE RIGHT TO ACCEPT OR REJECT ANY

5. THE PLACEMENT OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE ACCEPTED GESC PLAN AND THE SEMSWA GESC MANUAL.

SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO THE GESC MANUAL, GESC PLAN OR GESC PERMIT.

6. ANY VARIATION IN MATERIAL, TYPE OR LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES FROM THE SEMSWA - ACCEPTED GESC PLAN WILL REQUIRE APPROVAL FROM AN ACCOUNTABLE REPRESENTATIVE OF SEMSWA.

7. UPON RECEIVING THE APPROVED, SIGNED AND STAMPED GESC PLANS AND REPORT, THE CONTRACTOR MAY INSTALL THE NON-EARTH DISTURBING INITIAL-STAGE EROSION AND SEDIMENT CONTROL MEASURES INDICATED ON THE ACCEPTED GESC PLAN.

8. AFTER INSTALLATION OF THE INITIAL-STAGE EROSION AND SEDIMENT CONTROL MEASURES, THE PERMITTEE SHALL CALL THE INSPECTION DIVISION TO SCHEDULE A PRECONSTRUCTION MEETING AT THE PROJECT SITE. THE REQUEST SHALL BE MADE NO LESS THAN 24 HOURS PRIOR TO THE REQUESTED MEETING TIME. NO CONSTRUCTION ACTIVITIES SHALL BE PLANNED WITHIN 24 HOURS AFTER THE PRECONSTRUCTION MEETING.

9. IN ADDITION TO THE SEMSWA INSPECTOR AND GESC MANAGER, THE FOLLOWING REPRESENTATIVES SHOULD ATTEND: GENERAL CONTRACTOR, OWNER, OR OWNER'S REPRESENTATIVE AND GRADING SUBCONTRACTOR. IF ANY OF THE REQUIRED PARTICIPANTS FAIL TO ATTEND THE PRECONSTRUCTION MEETING, OR IF THE INSTALLATION OF THE INITIAL CONTROL MEASURES ARE NOT APPROVED BY THE SEMSWA INSPECTOR, THE APPLICANT WILL HAVE TO PAY A REINSPECTION FEE, ADDRESS ANY PROBLEMS WITH CONTROL MEASURE INSTALLATION, AND CALL TO RESCHEDULE THE MEETING, WITH A CORRESPONDING DELAY IN THE START OF CONSTRUCTION.

10. CONSTRUCTION SHALL NOT BEGIN UNTIL THE SEMSWA INSPECTOR APPROVES THE INSTALLATION OF THE INITIAL CONTROL MEASURES AND THE APPROVED GESC PERMIT HAS BEEN ISSUED BY SEMSWA AND IS IN-HAND ON THE SITE. THE COMPLETED PERMIT WILL GENERALLY BE FIELD ISSUED OR ISSUED VIA EMAIL AFTER THE INSTALLATION OF THE INITIAL CONTROL MEASURES ARE APPROVED.

11. THE GESC MANAGER SHALL STRICTLY ADHERE TO THE SEMSWA APPROVED LIMITS OF CONSTRUCTION AT ALL TIMES. THE SEMSWA INSPECTION DIVISION MUST APPROVE ANY CHANGES TO THE LIMITS OF CONSTRUCTION AND, AT THE DISCRETION OF THE INSPECTION DIVISION, ADDITIONAL EROSION/SEDIMENT CONTROLS MAY BE REQUIRED IN ANY ADDITIONAL AREAS OF CONSTRUCTION/ DISTURBANCE ARE NEEDED.

12. THE MAXIMUM AREA OF CONSTRUCTION SHALL BE LIMITED TO 40 ACRES (70 ACRES IF APPROVED FOR SOIL MITIGATION OPERATIONS) TO REDUCE THE AMOUNT OF LAND DISTURBED AT ANY ONE TIME. LARGER SITES SHALL BE DIVIDED INTO PHASES THAT ARE EACH 40 (OR 70) ACRES OR LESS IN SIZE. THESE PROJECTS SHALL CONDUCT GRADING ACTIVITIES IN ACCORDANCE WITH THE ACCEPTED GESC PLAN. CONTROL MEASURE INSTALLATION AND APPROVAL BY SEMSWA AT THE START AND COMPLETION OF EACH PHASE SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROCEDURES OUTLINED IN THE GESC MANUAL.

13. NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED WHEREVER POSSIBLE. EXPOSURE OF SOIL TO EROSION BY REMOVAL OR DISTURBANCE OF VEGETATION SHALL BE LIMITED TO THE AREA REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS.

14. THE GESC PERMIT SHALL BE VALID FOR A PERIOD OF TWO (2) YEARS.

15. A COPY OF THE GESC PERMIT AND APPROVED GESC PLANS SHALL BE ON SITE OR MADE AVAILABLE UPON REQUEST.

16. THE GESC MANAGER SHALL BE RESPONSIBLE PARTY FOR ENSURING THAT THE SITE REMAINS IN COMPLIANCE WITH THE GESC PERMIT AND SHALL BE THE PERMITTEE'S CONTACT PERSON WITH SEMSWA FOR ALL MATTERS PERTAINING TO THE GESC PERMIT. THE GESC MANAGER SHALL BE ON THE SITE AS NECESSARY TO ENSURE THE GESC REQUIREMENTS ARE BEING IMPLEMENTED. AND (ALONG WITH THE ALTERNATE GESC MANAGER) SHALL PROVIDE SEMSWA WITH A 24-HOUR EMERGENCY CONTACT NUMBER. IN THE EVENT THAT THE CONTRACTOR'S GESC MANAGER IS NOT ON SITE AND CANNOT BE REACHED DURING A VIOLATION, THE ALTERNATE GESC MANAGER SHALL BE CONTACTED. IF NEITHER THE GESC MANAGER NOR ALTERNATE GESC MANAGER CAN BE CONTACTED DURING ANY VIOLATION, WITHIN 24 HOURS, VIOLATION MAY BE ISSUED TO THE PERMITTE(S).

17. ALL CONSTRUCTION TRAFFIC MUST EXIT THE SITE THROUGH THE SEMSWA-APPROVED ACCESS POINT. A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT ALL EXIT POINTS ON THE SITE, ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES MAY BE ADDED WITH AUTHORIZATION FROM THE SEMSWA INSPECTION DIVISION.

18. THE GESC MANAGER IS RESPONSIBLE FOR CLEANUP OF SEDIMENT OR CONSTRUCTION DEBRIS TRACKED ONTO ADJACENT PAVED AREAS. PAVED AREAS INCLUDING STREETS ARE TO BE KEPT CLEAN THROUGHOUT BUILD-OUT AND SHALL BE CLEANED, WITH A STREET SWEEPER OR SIMILAR DEVICE, AT FIRST NOTICE OF ACCIDENTAL TRACKING OR AT THE DISCRETION OF THE SEMSWA GESC INSPECTOR. STREET WASHING IS NOT ALLOWED. SEMSWA RESERVES THE RIGHT TO REQUIRE ADDITIONAL MEASURES TO ENSURE AREA STREETS ARE KEPT FREE OF SEDIMENT AND/OR CONSTRUCTION DEBRIS.

19. APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR FOR THE DURATION OF THIS PROJECT. AT A MINIMUM. THE GESC MANAGER SHALL INSPECT ALL CONTROL MEASURES IN ACCORDANCE WITH THE ACCEPTED GESC PLAN AND GESC MANUAL. ALL NECESSARY MAINTENANCE AND REPAIR ACTIVITIES SHALL BE COMPLETED WITHIN 48 HOURS. ACCUMULATED SEDIMENT AND CONSTRUCTION DEBRIS SHALL BE REMOVED AND PROPERLY DISPOSED.

20. STRAW BALES ARE NOT A SEMSWA GESC-ACCEPTED SEDIMENT CONTROL MEASURE.

21. TOPSOIL SHALL BE STRIPPED AND STOCKPILED IN THE LOCATION SHOWN ON THE ACCEPTED GESC PLAN. THE TOPSOIL STOCKPILE(S) SHALL FOLLOW ALL STOCKPILING CRITERIA DESCRIBED IN THE GESC MANUAL. TOPSOIL SHALL BE REPLACED AT A MINIMUM DEPTH OF 6 INCHES. IF A MINIMUM DEPTH OF 6 INCHES CAN NOT BE OBTAINED, ADDITIONAL TOPSOIL AND/ OR APPROVED SOIL AMENDMENTS WILL BE REQUIRED TO BE PLACED PRIOR TO SEEDING AND MULCHING.

22. THE ACCEPTED GESC PLAN MAY REQUIRE CHANGES OR ALTERATIONS AFTER APPROVAL TO MEET CHANGING SITE OR PROJECT CONDITIONS OR TO ADDRESS INEFFICIENCIES IN DESIGN OR INSTALLATION. THE GESC MANAGER SHALL OBTAIN PRIOR APPROVAL FOR MAJOR MODIFICATIONS FROM THE DESIGN ENGINEER AND SEMSWA FOR ANY

23. LINING OF TEMPORARY SWALES AND DITCHES SHALL BE IN ACCORDANCE WITH THE GESC MANUAL

24. ANY SETTLEMENT OR SOIL ACCUMULATIONS BEYOND THE LIMITS OF CONSTRUCTION DUE TO GRADING OR EROSION SHALL BE REPAIRED IMMEDIATELY BY THE GESC MANAGER. THE GESC MANAGER SHALL BE HELD RESPONSIBLE FOR OBTAINING ACCESS RIGHTS TO ADJACENT PROPERTY, IF NEEDED, AND REMEDIATING ANY ADVERSE IMPACTS TO ADJACENT WATERWAYS, WETLANDS, PROPERTIES, ETC. RESULTING FROM WORK DONE AS PART OF THIS PROJECT.

25. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND

26. SOILS THAT WILL BE STOCKPILED FOR MORE THAN THIRTY (30) DAYS SHALL BE SEEDED AND MULCHED WITHIN FOURTEEN (14) DAYS OF STOCKPILE CONSTRUCTION. NO STOCKPILES SHALL BE PLACED WITHIN ONE HUNDRED (100) FEET OF A DRAINAGE WAY UNLESS APPROVED BY SEMSWA.

27. ALL CHEMICAL OR HAZARDOUS MATERIAL SPILLS WHICH MAY ENTER WATERS OF THE STATE OF COLORADO, WHICH INCLUDE BUT ARE NOT LIMITED TO, SURFACE WATER, GROUND WATER AND DRY GULLIES OR STORM SEWER LEADING TO SURFACE WATER, SHALL BE IMMEDIATELY REPORTED TO THE CDPHE PER CRS 25-8-601, AND SEMSWA. RELEASES OF PETROLEUM PRODUCTS AND CERTAIN HAZARDOUS SUBSTANCES LISTED UNDER THE FEDERAL CLEAN WATER ACT (40 CFR PART 116) MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AS WELL AS THE CDPHE. CONTACT INFORMATION FOR CDHPE, SEMSWA AND THE NATIONAL RESPONSE CENTER CAN BE FOUND IN APPENDIX A. SPILLS THAT POSE AN IMMEDIATE RISK TO HUMAN LIFE SHALL BE REPORTED TO 911. FAILURE TO REPORT AND CLEAN UP ANY SPILL SHALL RESULT IN ISSUANCE OF A STOP WORK ORDER. TO REPORT SPILLS TO SEMSWA CALL 303-858-8844.

28. ALL WORK ON SITE SHALL STAY A MINIMUM OF ONE HUNDRED (100) FEET AWAY FROM ANY DRAINAGE WAY, WETLAND, ETC. UNLESS OTHERWISE NOTED ON AN ACCEPTED

29. THE USE OF REBAR, STEEL STAKES STAPLES, OR STEEL FENCE POSTS FOR STAKING OR SUPPORT OF ANY EROSION OR SEDIMENT CONTROL MEASURE IS PROHIBITED (EXCEPT STEEL TEE-POSTS FOR USE IN SUPPORTING CONSTRUCTION FENCE).

30. THE CLEANING OF CONCRETE DELIVERY TRUCK CHUTES IS RESTRICTED TO APPROVED CONCRETE WASH OUT LOCATIONS ON THE JOB SITE. THE DISCHARGE OF WATER CONTAINING WASTE CONCRETE TO THE STORM SEWER SYSTEM IS PROHIBITED. ALL CONCRETE WASTE SHALL BE PROPERLY CLEANED UP AND DISPOSED AT AN APPROPRIATE

31. ALL DEWATERING ON SITE SHALL BE COORDINATED WITH A SEMSWA GESC INSPECTOR AND BE FREE OF SEDIMENT IN ACCORDANCE WITH THE GESC MANUAL, AND STATE OF

32. ALL PERMANENT INSTALLATIONS OF PIPES FOR STORM SEWERS, SLOPE DRAINS, AND CULVERTS, TOGETHER WITH RIPRAP APRONS OR OTHER INLET AND OUTLET PROTECTION,

33. ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE GESC MANUAL WITHIN 14 DAYS OF SUBSTANTIAL COMPLETION OF GRADING, INCLUDING AREAS TO

34. HYDRAULIC SEEDING IS NOT AN ACCEPTABLE METHOD OF SEEDING WITHIN THE SEMSWA SERVICE AREA.

36. UTILITY LINE INSTALLATION SHALL COMPLY WITH THE FOLLOWING CRITERIA:

. ALL UTILITY WORK WITHIN A RIGHT-OF-WAY SHALL BE REQUIRED TO OBTAIN A RIGHT-OF-WAY USE AND CONSTRUCTION PERMIT IN ACCORDANCE WITH THE APPROPRIATE

STANDARDS. PROVIDE ADEQUATE EROSION AND SEDIMENT CONTROLS.

 AT THE END OF A WORK DAY, NO TRENCH SHALL BE LEFT OPEN AND BACKFILL MUST BE COMPLETED TO GRADE . WHERE CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS, EXCAVATED MATERIAL IS TO BE PLACED ON THE UPHILL SIDE OF TRENCHES.

AT NO TIME SHALL EXCAVATED MATERIAL BE PLACED ON THE STREET.

• TRENCH DEWATERING DEVICES MUST DISCHARGE IN A MANNER THAT WILL NOT EFFECT STREAMS, WETLANDS, DRAINAGE SYSTEMS, OR OFF-SITE PROPERTY. DISCHARGE FROM

TRENCH SHALL BE FREE OF ANY SEDIMENT. A RIPRAP PAD SHALL BE PLACED AT THE DISCHARGE END OF THE HOSE TO PREVENT ANY ADDITIONAL EROSION. • STORM SEWER INLET PROTECTION SHALL BE PROVIDED WHENEVER SOIL EROSION FROM THE EXCAVATED AREA HAS POTENTIAL OF ENTERING THE STORM DRAINAGE SYSTEM.

ALL OTHER APPLICABLE CRITERIA AS OUTLINED IN THE GESC MANUAL.

ALL DISTURBED AREAS SHALL BE DRILL SEEDED AND CRIMP MULCHED WITHIN FIVE DAYS AFTER UTILITY INSTALLATION IS COMPLETED.

37. ALL SINGLE-FAMILY RESIDENTIAL DEVELOPMENT PROJECTS SHALL COMPLY WITH THE GESC CRITERIA AS PRESENTED IN THE GESC MANUAL.

38. NO RECYCLED ASPHALT SHALL BE USED AS A CONTROL MEASURE. RECYCLED CONCRETE MUST BE APPROVED BY SEMSWA 39. SEMSWA MAY ALLOW THE INSTALLATION OF ALTERNATIVE CONTROL MEASURES OTHER THAN THE GESC PLAN STANDARD NOTES AND DETAILS. IF ALTERNATIVE EROSION AND

SEDIMENT CONTROL MEASURES WILL BE USED, CUT SHEETS MUST BE SUBMITTED TO THE SEMSWA INSPECTOR. 40. IF YOU ARE EXPORTING EXCESS DIRT WITHIN THE SEMSWA SERVICE AREA, YOU WILL BE REQUIRED TO OBTAIN A GESC PERMIT FOR THE SECONDARY SITE.

<u>LEGEND</u> (CBC) CUT BACK CURB CHECK DAM (CWA) CONCRETE WASHOUT AREA ____ CONSTRUCTION FENCE (CM) CONSTRUCTION MARKERS (CS) CURB SOCK (DW) DEWATERING DIVERSION DITCH

EROSION CONTROL BLANKET

10

11

12

13

14

15

16

17

18

19

21

22

23

24

25

26

28

3

(4)

8'x8' MIN.

PERIMETER

COMPACTED EMBANKMENT

INSPECTOR PRIOR TO USE.

FLEXIBLE GROWTH MEDIUM GROUT MIXING STATION INLET PROTECTION 15415-005-015-015

REINFORCED CHECK DAM (RRB) REINFORCED ROCK BERM RRB FOR CULVERT PROTECTION

> SEDIMENT BASIN SEDIMENT CONTROL LOG

(SM)SEEDING AND MULCHING

SEDIMENT TRAP

SILT FENCE REINFORCED SLOPE INTERCEPT DITCH

STABILIZED STAGING AREA SURFACE ROUGHENING

TEMPORARY SLOPE DRAIN TEMPORARY STREAM CROSSING (VTC)

VTC WITH WHEEL WASH

LIMITS OF CONSTRUCTION

GROUND SURFACE -

VEHICLE TRACKING CONTROL

MAY MEET MAJOR MODIFICATION REQUIREMENTS

ROCK AND RIPRAP GRADATIONS

TABLE 1. RIPRAP GRADATIONS

TABLE 2. RIPRAP BEDDING

SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES				
	CLASS A				
3"	100				
1 1/2"	20 - 90				
NO. 4	0 - 20				
NO. 200	0 - 3				
MATCHES SPECIFICATIONS FOR CDOT CLASS A FILTER MATERIAL AND UDFCD					

FRACTURED FACE, ALL SIDES.

WOODEN LATH OR PVC PIPE

OR OTHER APPROVED

SPACING APPROPRIATE TO SITE CONDITIONS

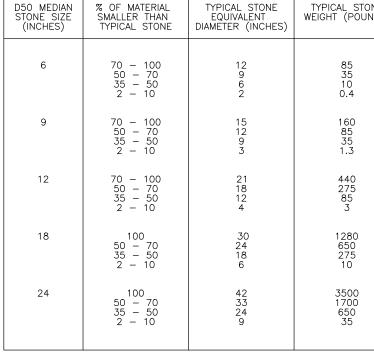
AT 100' MAX. SPACING—

(ALTERNATIVE TO CONSTRUCTION FENCE)

SCALE: 1/4" = 1-0"

CONSTRUCTION FENCE INSTALLATION NOTES

CONSTRUCTION FENCE MAINTENANCE NOTES



SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES			
	CLASS A			
3"	100			
1 1/2"	20 - 90			
NO. 4	0 - 20			
NO. 200	0 - 3			
MATCHES SPECIFICATIONS FOR CDOT CLASS A FILTER MATERIAL AND UDFCD				

SLOPE (IF DURING LAND DEV.) SHEET FLOW ____

DESCRIPTION AND PURPOSE

A TEMPORARY SEDIMENT BARRIER AND TRAP FORMED BY EXCAVATION BEHIND CURB OR SIDEWALK TO RETAIN SEDIMENT ON SITE

SUITABLE APPLICATIONS

DURING LAND DEVELOPMENT AFTER PAVING OR DURING VERTICAL CONSTRUCTION. USE IN TREE LAWNS OR IN LANDSCAPE

USE SURFACE ROUGHENING ON UPGRADIENT SLOPES IF DURING LAND DEVELOPMENT.

 SEDIMENT ACCUMULATION VOLUME IS SIZED PER 1800CF/AC OF TRIBUTARY AREA. 5' WIDTH AND S" DEPTH IS ACCEPTABLE FOR TRIBUTARY SHEET 60 LF MUST COMPUTE CUSTOM SEDIMENT ACCUMULATION BASIN.

NOT FOR USE EXCEEDING 3H:1V SLOPES. NOT FOR USE FOR CONCENTRATED FLOW AREAS. PROLONGED STANDING WATER MAY AFFECT SUB-BASE OF PAVING AND COULD CAUSE SOIL TO SETTLE AND

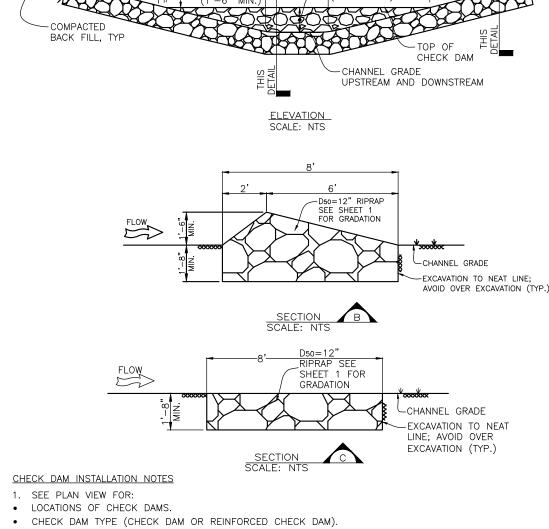
POTENTIALLY DAMAGE CONCRETE.

 THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF

THE CONTROL MEASURE. REMOVE ACCUMULATED SEDIMENT WHEN 1/2 CAPACITY. DO NOT ALLOW SEDIMENT TO OVERFLOW ONTO CURB OR SIDEWALK.

IMPLEMENT ADDITIONAL CONTROL MEASURES SUCH AS DOWNGRADIENT SEDIMENT CONTROL LOGS, CURB CHECKS, OR OTHER BARRIERS AS ON-SITE

CONDITIONS REQUIRE.



LENGTH "L'

CREST LENGTH. "CL"

SECTION

RETWEEN

SECTION

RETWEEN

SECTION C

 LENGTH, "L", CREST LENGTH, "CL", AND DEPTH, "D". 2. CHECK DAMS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY UPSTREAM LAND-DISTURBING ACTIVITIES.

3. VL RIPRAP SHALL BE UTILIZED FOR CHECK DAMS. 4. RIP RAP PAD SHALL BE TRENCHED INTO THE CHANNEL BANKS TO ADEQUATELY ANCHOR WITH CENTER OF THE CHECK DAM LOWER TO ALLOW FOR OVERTOPPING AT THE CREST.

CHECK DAM MAINTENANCE NOTES

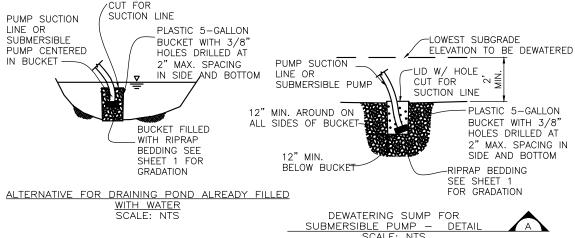
CONTROL MEASURE.

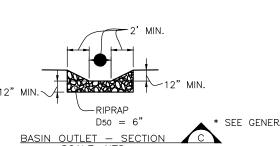
. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE SEDIMENT ACCUMULATED UPSTREAM OF CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH

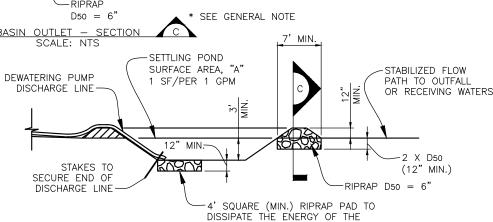
JPSTREAM OF CHECK DAM IS WITHIN 1/2 OF THE HEIGHT OF THE CREST. CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY SEMSWA

. WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACK FILL. ANY DISTURBED AREA SHALL BE SEEDED AND MULCHED AND COVERED WITH EROSION CONTROL BLANKET OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.









DEWATERING INSTALLATION NOTES

. A CONSTRUCTION DISCHARGE (DEWATERING) PERMIT, IF REQUIRED, SHALL BE OBTAINED FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT PRIOR TO ANY DEWATERING OPERATIONS. ALL DEWATERING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DISCHARGE PERMIT AND SHALL BE COORDINATED THE GESC MANAGER SHALL PROVIDE, OPERATE, AND MAINTAIN DEWATERING SYSTEMS OF SUFFICIENT SIZE AND

MEANS APPROVED BY SEMSWA TO REDUCE THE PUMPING OF SEDIMENT, AND SHALL PROVIDE A TEMPORARY BASIN FOR SETTLING PUMPED DISCHARGES PRIOR TO RELEASE OFF SITE OR TO A RECEIVING WATER.

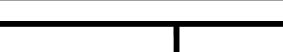
SEDIMENT BASIN PER DETAIL 14 MAY BE USED IN LIEU OF SUMP DISCHARGE SETTLING BASIN SHOWN ABOVE. DISCHARGE POINT SHALL BE A STABILIZED AREA..
. THE DISCHARGE END OF THE LINE SHALL BE STAKED IN PLACES TO PREVENT MOVEMENT OF THE LINE OFF THE STABILIZED DISCHARGE POINT.

. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE

. TEMPORARY SETTLING BASINS SHALL BE REMOVED WHEN NO LONGER NEEDED FOR DEWATERING OPERATIONS. ANY DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.

USE OF A SEDIMENT FILTER BAG MAY BE SUBSTITUTED FOR USE OF THE RIPRAP PAD AND SUMP DISCHARGE SETTLING BASIN. FILTER BAG TO SET ON RELATIVELY FLAT STABLE GROUND.





SEDIMENT ACCUMULATED UPSTREAM OF CURB SOCK SHALL BE REMOVED WHEN THERE IS EVIDENCE OF

CURB SOCKS

UTILITY NOTIFICATION CENTER OF COLORADO CALL BEFORE YOU DIG

SOUTHEAST METRO STORMWATER AUTHORITY

CENTENNIAL COLORADO 80112-4486

(303) 858-8844 - INSPECTION DIVISION



GRADING EROSION AND SEDIMENT CONTROL STANDARD NOTES AND DETAILS **REVISED FEBRUARY 2023**

SHEET 1 OF 4

SEE GENERAL NOTE

Call 2 days prior to any digging, grading of

excavating for the marking of underground

7437 SOUTH FAIRPLAY STREET

CONCRETE WASHOUT AREA INSTALLATION NOTES 1. SEE PLAN VIEW FOR LOCATIONS OF CONCRETE WASHOUT AREA. 2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE. REQUIRE INSPECTION BY SEMSWA (SEPARATE FROM GESC INSPECTIONS) 3. VEHICLE TRACKING CONTROL (VTC) (DETAIL 27) IS REQUIRED AT THE ACCESS POINT. THE VTC CAN BE REMOVED AT THE DISCRETION OF THE SEMSWA INSPECTOR 4. SIGNAGE SHALL BE PLACED AT THE WASHOUT AREA, AND MAY BE ELSEWHERE AS NECESSARY TO REMAIN DORMANT FOR LONGER THAN 30 DAYS, WHICHEVER IS LESS. THIS MAY REQUIRE MULTIPLE MOBILIZATIONS FOR SEEDING AND MULCHING. CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS 5. EXCAVATED MATERIAL MAY BE UTILIZED IN PERIMETER BERM CONSTRUCTION. 35. HYDRO-MULCH MAY BE USED FOR LIMITED APPLICATIONS AS APPROVED BY SEMSWA. 6. CONCRETE WASHOUT MUST BE LINED IN AREAS WITH HIGH GROUNDWATER. LINERS MUST BE 30 MIL CONCRETE WASHOUT AREA MAINTENANCE NOTES NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.

8'x8' MIN.

OR AS REQUIRED T

CONTAIN WASTE CONCRETE

. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS

AS NEEDED DURING CONSTRUCTION, AND AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED

AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA. INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT.

CONCRETE WASHOUT 3

USE OF PROPRIETARY CONCRETE WASHOUT SYSTEM MAY BE CONSIDERED IF APPROVED BY SEMSWA CONSTRUCTION CONSTRUCTION MARKERS

• TYPE OF CONSTRUCTION LIMIT INDICATOR (FENCE OR MARKERS).

POSTS SHALL BE APPROPRIATE TO SITE CONDITIONS.

STABILIZED IN A MANNER APPROVED BY SEMSWA.

TO OTHER CONTROL MEASURES AND ANY LAND-DISTURBING ACTIVITIES.

ANY DAMAGED FENCE OR MARKERS SHALL BE REPAIRED ON A DAILY BASIS.

CONSTRUCTION FENCE OR MARKERS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR

3. STEEL TEE POSTS SHALL BE UTILIZED FOR SUPPORT OF CONSTRUCTION FENCE. SPACING OF TEE

. FENCE OR MARKERS SHALL BE REMOVED AT THE END OF CONSTRUCTION. IF ANY DISTURBED AREA

EXISTS AFTER FENCE REMOVAL, IT SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE

- TUBULAR MARKER RETROREFLECTIVE BAND -REINFORCED ROCK BERM REINFORCED ROCK BERM SHALL BE PAVEMENT— PLACED TIGHTLY AGAINST CURB FACE--TUBULAR MARKER (TYP) WIRE OR GEOSYNTHETIC MATERIAL ENCLOSED 1-1/2" CRUSHED ROCK

CURB SOCK INSTALLATION NOTES

ADDITIONAL CURB SOCKS MAY BE REQUIRED AS DIRECTED BY SEMSWA CURB SOCKS IN STREETS SHALL BE INSTALLED WITHIN 48-HOURS OF POURING CURBS. CURB SOCKS (AFTER PAVEMENT) SHALL BE INSTALLED WITHIN 48 HOURS AFTER PAVING IS PLACED.

3. CRUSHED ROCK SHALL BE FRACTURED FACE ON ALL SIDES. . WIRE MESH SHALL BE FABRICATED OF WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE"). ROLL WIDTH SHALL BE 48-INCHES.

WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT APPROXIMATELY 6-INCH CENTERS ALONG ALL JOINTS AND AT APPROXIMATELY 2-INCH CENTERS ON ENDS OF BERM.

REINFORCED ROCK BERM SHALL BE CONSTRUCTED IN ONE PIECE OR SHALL BE CONSTRUCTED USING JOINT EXAMPLES OF ACCEPTABLE GEOSYNTHETIC MATERIAL: TENCATE MIRAFI 'MIRAGRID 2XT'; STRATA GLOBAL SOLUTIONS 'STRATAGRID SG 150'. SOLID FABRIC OPTIONAL.

8. THE TOP OF REINFORCED ROCK BERM SHALL BE 1/2"-1" BELOW TOP OF CURB

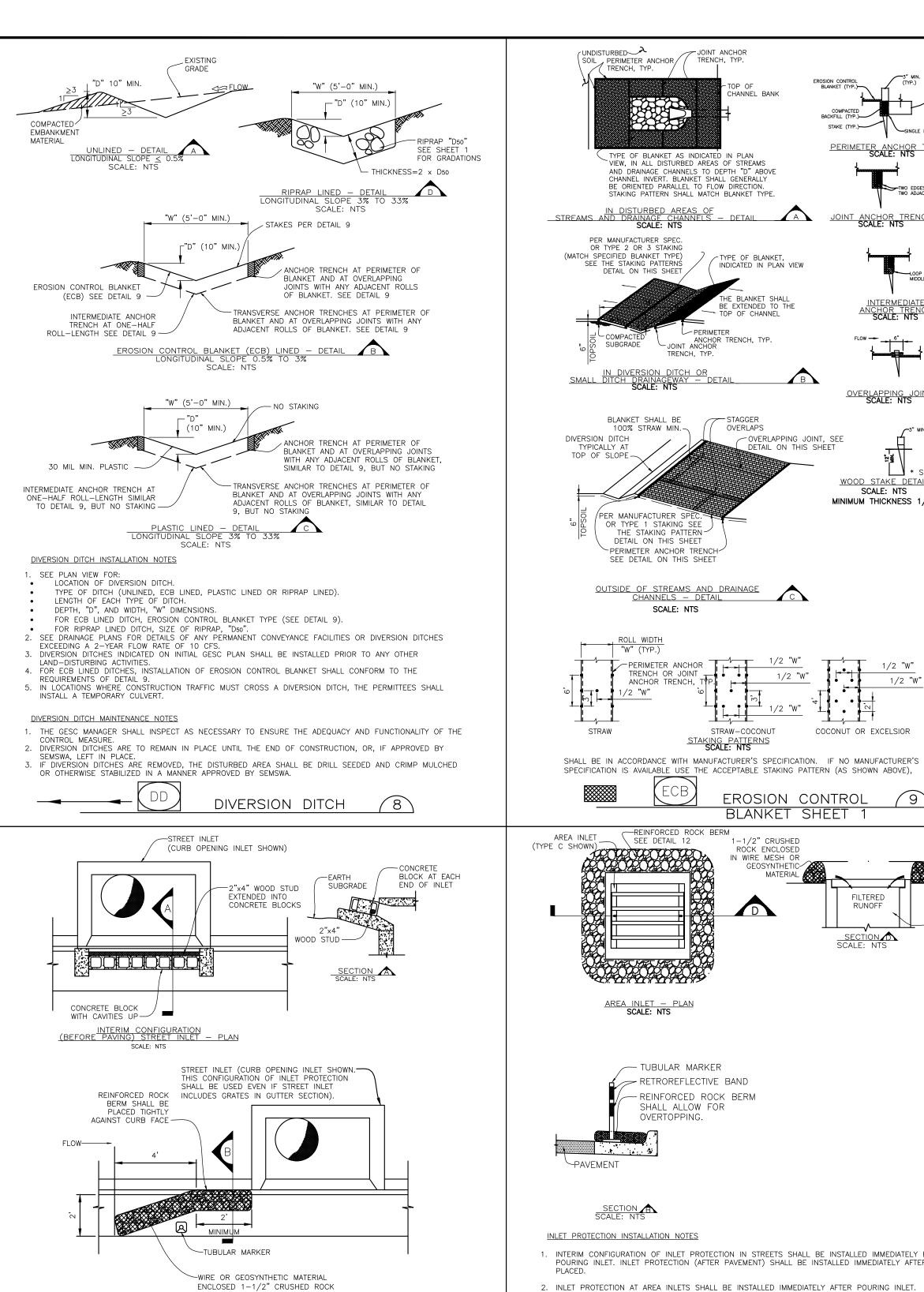
CURB SOCK MAINTENANCE NOTES

THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE

SIGNIFICANT SEDIMENT BUILDUP. CURB PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED, UNLESS SEMSWA APPROVES EARLIER REMOVAL OF CURB PROTECTION IN STREETS.

DEWATERING

GESC



STREET INLET ON CONTINUOUS GRADE

DESIGN DETAIL FOR JOINTING

UTILITY NOTIFICATION CENTER

OF COLORADO

CALL BEFORE YOU DIG

Call 2 days prior to any digging, grading or

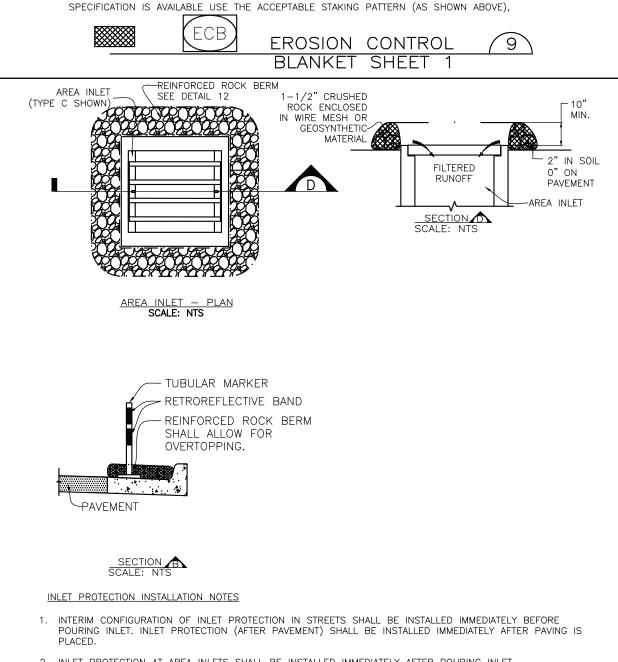
excavating for the marking of underground

BLOCKS

2"x 4" WOOD

INLET PROTECTION

SOCKS



PERIMETER ANCHOR TRENCH
SCALE: NTS

* SEE GENERAL NOTE

SCALE: NTS

MINIMUM THICKNESS 1/2"

COCONUT OR EXCELSIOR

INDICATED IN PLAN VIEW

ANCHOR TRENCH, TYP. JOINT ANCHOR

SCALE: NTS

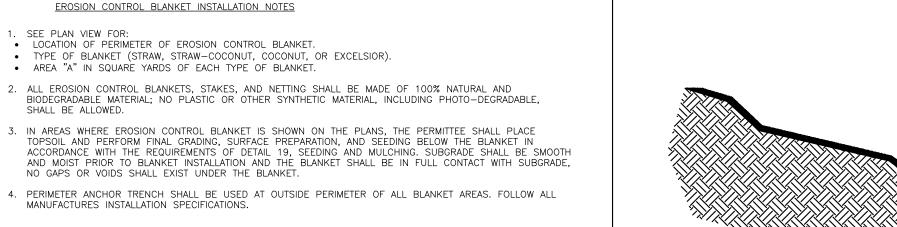
OVERLAPS

STRAW-COCONUT

- 2. INLET PROTECTION AT AREA INLETS SHALL BE INSTALLED IMMEDIATELY AFTER POURING INLET
- 3. 1-1/2" CRUSHED ROCK SHALL BE FRACTURED FACE ON ALL SIDES.
- 4. WIRE MESH SHALL BE FABRICATED OF WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH
- 5. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT APPROXIMATELY 6-INCH CENTERS ALONG ALL JOINTS AND AT APPROXIMATELY 2-INCH CENTERS ON ENDS OF BERM.
- 6. EXAMPLES OF ACCEPTABLE GEOSYNTHETIC MATERIAL: TENCATE MIRAFI 'MIRAGRID 2XT'; STRATA GLOBAL SOLUTIONS 'STRATAGRID SG 150'. SOLID FABRIC OPTIONAL.
- 7. TUBULAR MARKERS SHALL BE PLACED ON EACH END OF THE INLET PROTECTION LOCATED ON STREETS
- 8. THE TOP OF REINFORCED ROCK BERM SHALL ALLOW FOR OVERTOPPING INTO THE INLET

INLET PROTECTION MAINTENANCE NOTES

- 1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
- 2. SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED WHEN THERE IS EVIDENCE OF SIGNIFICANT SEDIMENT BUILDUP.
- 3. INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED, UNLESS SEMSWA APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.
- 4. WHEN INLET PROTECTION AT AREA INLETS ARE REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.
- INLET PROTECTION (12)



MANUFACTURES INSTALLATION SPECIFICATIONS.

5. INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF THE ROLL LENGTH FOR COCONUT

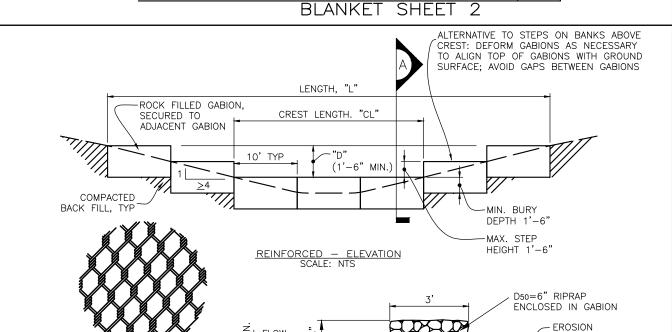
- AND EXCELSIOR BLANKETS.
- 6. MATERIAL SPECIFICATIONS OF EROSION CONTROL BLANKET SHALL CONFORM TO TABLE 7.1.
- 7. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING EROSION CONTROL BLANKET SHALL BE RESEEDED AND MULCHED IN ACCORDANCE WITH DETAIL 19.
- 8. SEE DRAINAGE DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION MEASURES THAT MAY EXCEED THE DESIGN CONDITIONS ASSOCIATED WITH THE DETAILS ABOVE.

TABLE 7.1 - EROSION CONTROL BLANKET TYPE							
TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	NETTING MIN.			
STRAW*	_	100%	_	DOUBLE/NATURAL			
STRAW-COCONUT	30% MIN.	70% MAX.	_	DOUBLE/NATURAL			
COCONUT	100%	-	-	DOUBLE/NATURAL			
EXCELSIOR	-	_	100%	DOUBLE/NATURAL			
* FOR OUTSIDE (OF STREAMS	AND DRAINA	GE CHANNEL	S			

EROSION CONTROL BLANKET MAINTENANCE NOTES

- 1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE
- 2. EROSION CONTROL BLANKET IS TO BE LEFT IN PLACE UNLESS REQUESTED TO BE REMOVED BY SEMSWA. 3. ANY EROSION CONTROL BLANKET PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE RE-INSTALLED. ANY SUBGRADE AREAS BELOW THE BLANKET THAT HAVE ERODED TO CREATE A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE EROSION CONTROL
- 4. REMOVAL OF 2X4 WEDGE STAKES MAY BE REQUIRED PRIOR TO FINAL CLOSE OUT OF THE GESC PERMIT.

ECO-STAKES MAY BE USED IN AREAS ABOVE ORDINARY HIGH WATER MARK.



EROSION CONTROL

REINFORCED - SECTION A
SCALE: NTS

REINFORCED CHECK DAM INSTALLATION NOTES

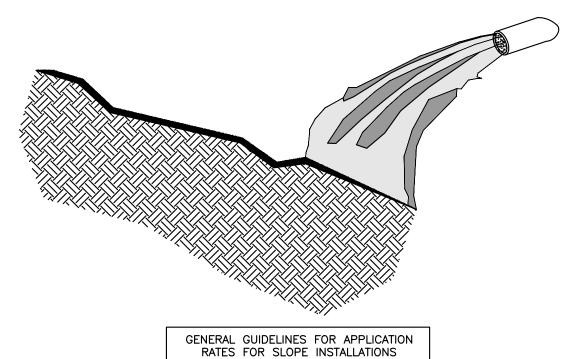
SEE PLAN VIEW FOR: LOCATIONS OF CHECK DAMS.

- CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM).
- LENGTH, "L", CREST LENGTH, "CL", AND DEPTH, "D". 2. REINFORCED CHECK DAMS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY UPSTREAM
- 3. REINFORCED CHECK DAM GABIONS SHALL HAVE GALVANIZED TWISTED WIRE NETTING WITH A MAXIMUM
- APPROPRIATE GAUGE TO WITHSTAND ANTICIPATED FLOWS. WIRE "HOG RINGS" AT 4" SPACING OR OTHER APPROVED MEANS SHALL BE USED AT ALL GABION SEAMS AND TO SECURE THE GABION TO THE ADJACENT
- 4. VL RIP RAP SHALL BE UTILIZED FOR CHECK DAMS. 5. RIP RAP PAD SHALL BE TRENCHED INTO THE CHANNEL BANKS TO ADEQUATELY ANCHOR WITH CENTER OF CHECK DAM LOWER TO ALLOW FOR OVERTOPPING AT THE CREST.

REINFORCED CHECK DAM MAINTENANCE NOTES

- 1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE
- 2. SEDIMENT ACCUMULATED UPSTREAM OF CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF CHECK DAM IS WITHIN 1/2 OF THE HEIGHT OF THE CREST.
- 3. CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY SEMSWA.
- 4. WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACK FILL. ANY DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED AND COVERED WITH EROSION CONTROL BLANKET OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA





SLOPE CONDITION APPLICATION RATE 3000 LB/ACRE

FLEXIBLE GROWTH MEDIUM INSTALLATION NOTES: 1. IN AREAS WHERE THE FLEXIBLE GROWTH MEDIUM IS

- SHOWN ON THE PLANS, THE PERMITTEE(S) SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING SURFACE PREPARATION, AND SEEDING BELOW THE BLANKET IN ACCORDANCE WITH THE GESC PLAN
- STANDARD NOTES AND DETAILS, SEEDING AND MULCHING. APPLY THE FLEXIBLE GROWTH MEDIUM T GEOTECHNICALLY STABLE SLOPES THAT HAVE BEEN DESIGNED AND CONSTRUCTED TO DIVERT RUNOFF AWAY FROM THE FACE OF THE SLOPE. PROCEED WITH INSTALLATION UNTIL SATISFACTORY CONDITIONS ARE ESTABLISHED

2. HYDROSEEDING IS NOT ALLOWED. PLEASE FOLLOW

- SEED AND MULCH DETAIL (DETAIL 19). 3. MIX AND APPLY PER MANUFACTURERS DETAILS.
- FRESHLY SEEDED SURFACES AND DO NOT LEAVE SEEDED SURFACES UNPROTECTED; CONFIRM LOADING RATES WITH EQUIPMENT MANUFACTURER.
- 100% SOIL SURFACE COVERAGE. SLOPE DEVICES OR WATER DIVERSION TECHNIQUES ARE RECOMMENDED WHEN SLOPE LENGTHS EXCEED 75 FT. 5. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN

RESEEDED AND MULCHED IN ACCORDANCE WITH DETAIL

THE PROCESS OF INSTALLING FGM SHALL BE

4. APPLY FGM FROM OPPOSING DIRECTIONS TO ASSURE

FLEXIBLE GROWTH MEDIUM MAINTENANCE NOTES: THE GESC MANAGER SHALL INSPECT FLEXIBLE GROWTH MEDIUMS WEEKLY AND DURING AND AFTER

2. FLEXIBLE GROWTH MEDIUM SHALL BE LEFT IN PLACE UNLESS REQUESTED TO BE REMOVED BY THE

NY STORM EVENT AND MAKE REPAIRS AS

- 3. DO NOT LEAVE SEEDED SURFACES UNPROTECTED,
- 4. ANY DAMAGED FLEXIBLE GROWTH MEDIUM SHALL BE

GROUT MIXING STATION MAINTENANCE NOTES

THE RAISED CONTAINMENT DEVICE.

GROUT MIXING STATION INSTALLATION NOTES

INLETS, OPEN DRAINAGE FACILITIES AND WATER COURSES.

4. EXCAVATED MATERIAL MAY BE USED IN PERIMETER BERM CONSTRUCTION.

10 mil PLASTIC LINER

COVERED WHEN

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.

2. AREA TO BE LARGE ENOUGH TO PROVIDE ADEQUATE CONTAINMENT OFF ALL MIXING OPERATIONS.

1. LOCATION TO BE DETERMINED IN THE FIELD AND SHALL BE SITUATED A MINIMUM OF 50' FROM STORM DRAIN

3. MIXING AREA TO HAVE PERIMETER CONTAINMENT, A MINIMUM OF 4" IN HEIGHT. CONTAINMENT DEVICE CAN BE CONSTRUCTED OF AN EARTHEN BERM, CONCRETE BLOCKS, WOOD FRAME SECURELY FASTENED AROUND

5. MINIMUM 10 MIL PLASTIC LINER OR TARP SHALL COVER THE ENTIRE MIXING AREA SECURELY FASTENED TO

PERIMETER AREA OR OTHER APPROVED METHOD. MUST BE SIZED TO ADEQUATELY CONTAIN MIXING OPERATION.

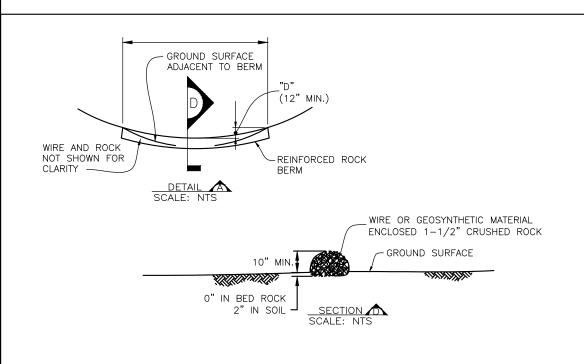
PERIMETER CONTAINMENT

DEVICE: MIN. 4" HEIGHT

- 2. ALL GROUT/ MORTAR WASHOUT SHALL BE IN AN APPROVED CONCRETE WASHOUT AREA (CWA).
- 3. ALL MATERIALS SHALL BE STORED AND COVERED ON PALLETS ADJACENT TO THE MIXING AREA.
- 4. LINER AND ALL GROUT/ MORTAR WASTE RESIDUE SHALL BE PROPERLY DISPOSED OF AT THE END OF THE MIXING OPERATION.

GROUT MIXING

-SEDIMENT CONTROL LOG



REINFORCED ROCK BERM INSTALLATION NOTES

- 1. SEE PLAN VIEW FOR: • LOCATIONS OF REINFORCED ROCK BERMS.
- · LENGTH, "L", AND DEPTH, "D" DIMENSIONS.
- 2. REINFORCED ROCK BERM SECTION APPLIES TO CULVERT INLET FILTER AND INLET PROTECTION.
- 3. 1-1/2" CRUSHED ROCK SHALL BE FRACTURED FACE ON ALL SIDES. 4. WIRE MESH SHALL BE FABRICATED OF 10 GAUGE WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF
- 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE"). ROLL WIDTH SHALL BE 48-INCHES. 5. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6-INCH CENTERS ALONG ALL JOINTS

THE FLEXIBLE GROWTH MEDIUM SHOULD NOT BE APPLIED IN CHANNELS, SWALES OR OTHER AREAS WHERE

CONCENTRATED FLOWS ARE ANTICIPATED, UNLESS INSTALLED IN CONJUCTION WITH A TEMPORARY EROSION

FLEXIBLE GROWTH MEDIUM (10)

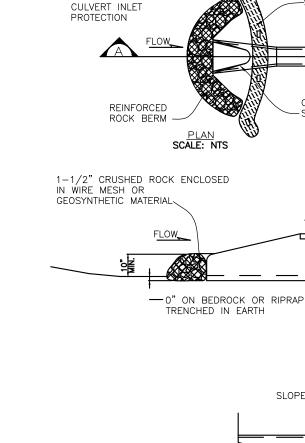
- AND AT 2-INCH CENTERS ON ENDS OF BERM. 6. FOR CONCENTRATED FLOW AREAS THE ENDS OF THE REINFORCED ROCK BERM SHALL BE 12" HIGHER THAN
- THE CENTER OF THE BERM.

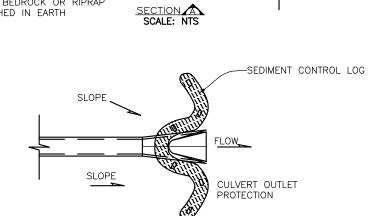
REINFORCED ROCK BERM MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.

REINFORCED ROCK (14)

- 2. SEDIMENT ACCUMULATED UPSTREAM OF REINFORCED ROCK BERM SHALL BE REMOVED WHEN THE SEDIMENT
- DEPTH UPSTREAM OF FILTER IS WITHIN APPROXIMATELY 1/2 OF THE HEIGHT OF THE CREST.
- 3. REINFORCED ROCK BERMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED
- 4. WHEN REINFORCED ROCK BERMS ARE REMOVED, ANY DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.





-SEDIMENT CONTROL LOG

INSTALLATION NOTES 1. SEE PLAN VIEW FOR:

- LOCATIONS OF CULVERT INLET FILTERS. AND DEPTH, "D".
- 1-1/2" CRUSHED ROCK SHALL BE FRACTURED FACE ON ALL SIDES. WIRE MESH SHALL BE FABRICATED OF WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE").
- 4. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT APPROXIMATELY 6-INCH CENTERS ALONG ALL JOINTS AND AT APPROXIMATELY 2-INCH CENTERS ON ENDS OF BERM.

 5. THE ENDS OF THE REINFORCED ROCK BERM SHALL BE HIGHER THAN THE CENTER OF THE BERM AND ALLOW
- FOR ADEQUATE OVERTOPPING CAPACITY IN THE CENTER.

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.

- 2. SEDIMENT ACCUMULATED UPSTREAM OF CULVERT INLET FILTER SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF FILTER IS 1/2 THE HEIGHT OF THE REINFORCED ROCK BERM. 3. RRB FOR CULVERT PROTECTION ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS
- STABILIZED AND GRASS COVER IS APPROVED BY SEMSWA.
- 4. WHEN CULVERT INLET FILTERS ARE REMOVED, ANY DISTURBED AREA SHALL BE SEEDED
- OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.





Authorit



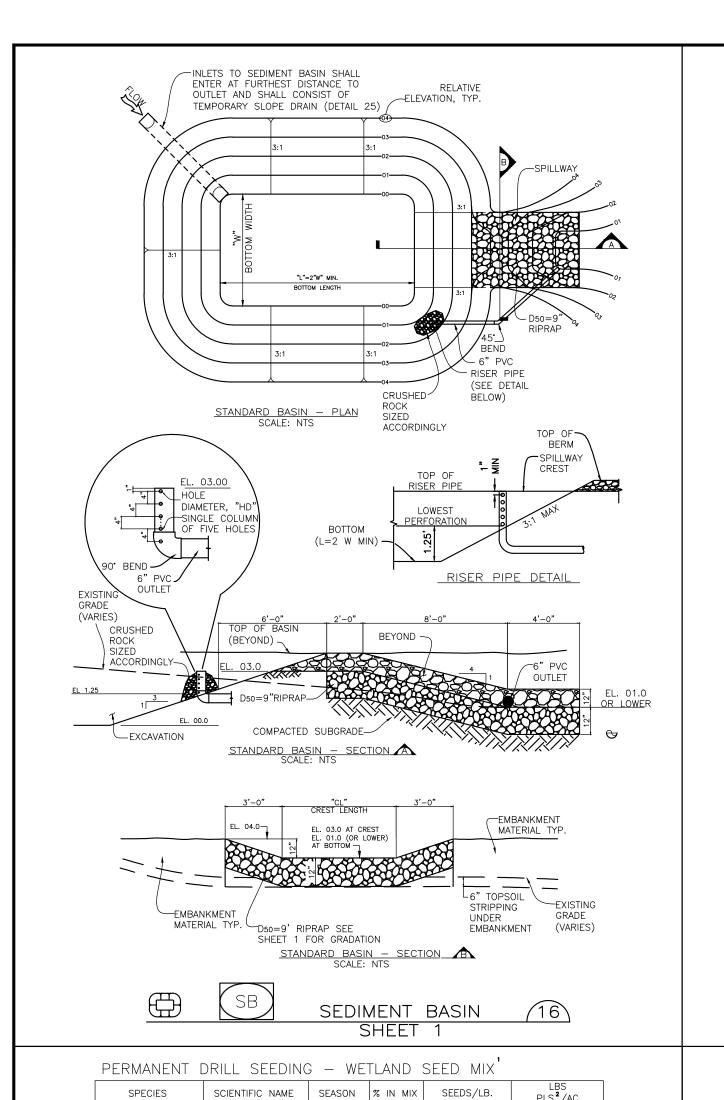
CENTENNIAL COLORADO 80112-4486

(303) 858-8844 - INSPECTION DIVISION



GRADING EROSION AND SEDIMENT CONTROL STANDARD NOTES AND DETAILS **REVISED FEBRUARY 2023**

GESC SHEET 2 OF 4



SEDIMENT BASIN INSTALLATION NOTES

- 1. SEE PLAN VIEW FOR:
- LOCATION OF SEDIMENT BASIN. TYPE OF BASIN (STANDARD BASIN OR NON-STANDARD BASIN).
- FOR STANDARD BASIN, CREST LENGTH, "CL", BOTTOM WIDTH, "W", AND HOLE DIAMETER, "HD".
- FOR NON-STANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT, "H", NUMBER OF COLUMNS, "N", HOLE DIAMETER, "HD", AND PIPE DIAMETER "D". . FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- 3. SEDIMENT BASINS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY.
- 4. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
- 5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY WITHIN 2 PERCENTAGE POINTS OF OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D698.

EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

PLAN VIEW DRAWINGS USED FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR

7. THE DETAILS SHOWN ON THIS SHEET PERTAIN TO STANDARD SEDIMENT BASIN(S) IDENTIFIED ON THE GESC

SEDIMENT BASIN MAINTENANCE NOTES

6. PIPE SCH 40 OR GREATER SHALL BE USED.

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE

SEDIMENT BASIN

132,000

368,000

1.300.000

15,000

1,230,000

1,758,000

130,000

115,000

154,000

115,000

170,000

5,298,000

15.5 LBS PLS²/AC

14.4 LBS PLS²/AC

0.2

3.5

0.1

0.2

2.0

1.4

0.3

2.3

0.8

1.6

2.3

2.4

1.5

0.1

PERMANENT DRILL SEEDING - TRANSITION SEED MIX - WITH FORBS

SCIENTIFIC NAME | SEASON | % IN MIX | SEEDS/LB.

NATIVE WILDFLOWERS

SUMMER

SPRING

WARM

PLS = PURE LIVE SEED PER POUND BASED 60 SEEDS PER SQUARE FOOT. IF BROADCAST

³ IF DESIRED, SHRUBS FROM THE WILLOW SHRUBLAND PLANT COMPOSITION SCHEDULE CAN BE

PERMANENT DRILL SEEDING - UPLAND SEED13 MIX - WITHOUT FORBS

SCIENTIFIC NAME | SEASON | % IN MIX | SEEDS/LB.

WARM

COOL

COOL

WARM

COOL

WARM

WARM

²PLS = PURE LIVE SEED PER POUND BASED 60 SEEDS PER SQUARE FOOT. IF BROADCAST

³ IF DESIRED, TREES AND SHRUBS FROM THE COTTONWOOD SHRUB WOODLAND COMPOSITION

(SM) SEEDING AND MULCHING (19)

SUMMER-

IRIS MISSOURIENSIS | SPRING-SUMMER | 2

GAILLARDIA ARISTATA SUMMER-

OENETHERA ELATA

MONTANA

COLUMNIFERA

SPOROBOLUS AIROIDES

GERARDII

BOUTELOUA GRACILIS

SPP. LANCEOATUS

SPP. PSAMMOPHILUS

TRACHYCAULUS

SORGHASTRUM

CRYPTANDRUS

¹ TO BE INSTALLED AT APPROXIMATELY 24" ABOVE WATER LINE.

TOTAL

SEEDING, DOUBLE THE RATE APPLIED.

SCHEDULE CAN BE INSTALLED IN THIS ZONE.

LYMUS CANADENSIS | COOL

PASCOPYRUM SMITHII COOL

1 TO BE INSTALLED AT APPROXIMATELY 6" TO 24" ABOVE WATER LINE.

ROCKY MOUNTAIN

EVENING PRIMROSE

GOLDEN BANNER

MEXICAN HAT

SAND DROPSEED

SPECIES

BIG BLUESTEM

SIDEOATS GRAMA

BLUE GRAMA

CANADA WILDRYE

WHEATGRASS

EEDLE AND THREAD

INDIAN GRASS

SAND DROPSEED

SEEDING, DOUBLE THE RATE APPLIED.

- 2. SEDIMENT SHALL BE REMOVED FROM THE POND WHEN DESIGNED STORAGE VOLUME IS NO MORE THAN
- 3. SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND
- GRASS COVER IS APPROVED BY SEMSWA. 4. IF SEDIMENT BASINS ARE REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR
- OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA. 5. TRASH AND DEBRIS SHALL BE REMOVED FROM THE SEDIMENT BASIN TO PREVENT CLOGGING AT THE

SEDIMENT CONTROL LOG INSTALLATION NOTES

 SFF PLAN VIFW FOR: LOCATION AND LENGTH OF SEDIMENT CONTROL LOG.

TIGHTLY ARLIT

OVERLAP JOINT-

- 2. SEDIMENT CONTROL LOGS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY LAND-DISTURBING ACTIVITIES.
- 3. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR, OR COCONUT FIBER.
- 4. NOT FOR USE IN CONCENTRATED FLOW AREAS.

UPLAND SFFD MIX - WITH FORBS 13

CURTIPENDUI A

SPP. LANCFOATUS

SPP. PSAMMOPHILUS

ELYMUS

COMATA

NUTANS

SPOROBOLUS

CRYPTANDRUS

TANACETIFIOLA

DALEA PURPUREUM

VAR. OCCIDENTALIS

COREOPSIS TINCTORIA

GAILLARDIA ARISTATA

PURPLE CONEFLOWER ECHINACEA PURPUREA | SUMMER

SEEDING, DOUBLE THE RATE APPLIED.

COMMON OR TRADE NAME

OPTION 2: QUICKGARD

OPTION 3: REGREEN

SCHEDULE CAN BE INSTALLED IN THIS ZONE.

TOTAL

¹ TO BE INSTALLED AT APPROXIMATELY 24" ABOVE WATER LINE.

SCOPYRUM SMITHII

BOUTELOUA GRACILIS WARM

LYMUS CANADENSIS | COOL

OVERLAP ALTERNATIVE

JOINT DETAIL

5. THE SEDIMENT CONTROL LOG SHALL BE TRENCHED IN APPROPRIATELY. 6. 9" DIAMETER SEDIMENT CONTROL LOGS ARE THE MINIMUM BUT A LARGER DIAMETER MAY BE REQUIRED BY THE SEMSWA INSPECTOR.

9" MINIMUM DIAMETER

J-HOOK SECTION

TIGHTLY ABUT FNO

SECTION.

J-HOOK ALTERNATIVE

TO FORM CONTINUOUS

CONTINUOUS -

- TRENCHED

SEDIMENT CONTROL LOG MAINTENANCE NOTES

BIG BLUESTEM

SIDEOATS GRAMA

CANADA WILDRYE

WHFATGRASS

STREAMBANK

SLENDER WHEAT

NEEDLE AND THREAD

INDIAN GRASS

SAND DROPSEED

SULFUR FLOWER

PRAIRIE ASTER

PURPLE PRAIRIE

CLOVER

WESTERN YARROW

PLAINS COREOPSIS

INDIAN BLANKET

BLACK-EYED SUSAN RUDBECKIA HIRTA

- 1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE
- CONTROL MEASURE. 2. SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOGS SHALL BE REMOVED WHEN THE UPSTREAM
- SEDIMENT DEPTH IS WITHIN 1/2 THE HEIGHT OF THE CREST OF LOG.
- 3. SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION. IF ANY DISTURBED AREA EXISTS AFTER REMOVAL, IT SHALL BE STABILIZED IN A MANNER APPROVED BY THE SEMSWA INSPECTOR.



SCIENTIFIC NAME | SEASON | % IN MIX | SEEDS/LB.

WARM

WARM

COOL

WARM

COOL

COOL

WARM

WARM

NATIVE WILDFLOWERS

SUMMER-

FALL

SUMMER

PLS = PURE LIVE SEED PER POUND BASED 60 SEEDS PER SQUARE FOOT. IF BROADCAST

³ IF DESIRED, TREES AND SHRUBS FROM THE COTTONWOOD SHRUB WOODLAND COMPOSITION

8

8

10

100

SCIENTIFIC NAME

AVENA SATIVA

SECALE CEREALE

TRITICUM AESTIVUM X

(SM) SEEDING AND MULCHING (19)

130,000

191,000

115,000

154,000

156,000

159,000

115,000

110,000

170,000

5,298,000

1,710,000

209,000

408,000

210,000

2,770,000

1,400,000

132,000

117,000

15 LBS PLS²/AC

1.6

0.3

1.8

0.8

0.8

1.8

2.4

0.3

0.1

0.1

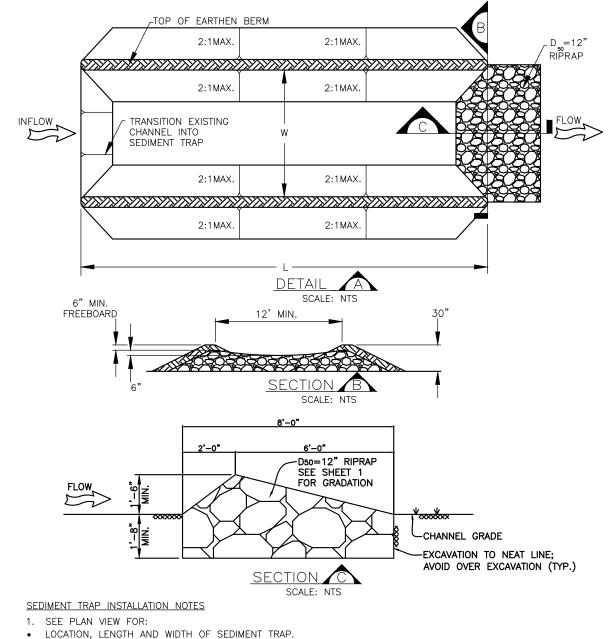
0.2

LBS PLS/AC

60 TO 90

10 TO 40

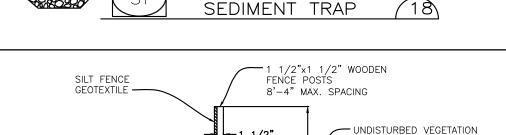
10 TO 40

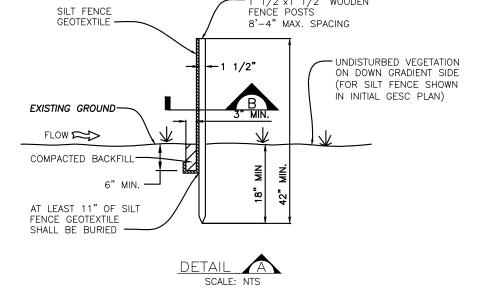


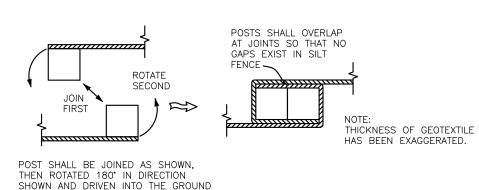
- 2. SEDIMENT TRAPS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY OTHER
- LAND-DISTURBING ACTIVITIES.
- 3. SEDIMENT TRAP BERM SHALL BE CONSTRUCTED FROM MATERIAL FROM EXCAVATION. THE BERM SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- 4. RIPRAP OUTLET SHALL BE CONSTRUCTED WITH D₅₀ =12" RIPRAP WITH A MINIMUM OVERFLOW OF 6". 5. THE TOP OF THE EARTHEN BERM SHALL ALLOW FOR OVERTOPPING. 6. THE ENDS OF THE RIPRAP OUTLET STRUCTURE SHALL ALLOW FOR OVERTOPPING.
- 7. OVERTOPPING MUST OCCUR ON A STABILIZED SURFACE TO INCLUDE WELL VEGETATED AREAS, RIP RAP, OR
- 8. SEDIMENT TRAP SIZED TO PROVIDE STORAGE VOLUME EQUAL TO 1800 CUBIC FEET PER UPSTREAM ACRE.

SEDIMENT TRAP MAINTENANCE NOTES

- 1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE
- 2. SEDIMENT ACCUMULATED UPSTREAM OF RIPRAP SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN 1/2 THE HEIGHT OF THE RIPRAP OUTLET STRUCTURE. 3. SEDIMENT TRAPS SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS
- COVERAGE IS APPROVED BY SEMSWA. 4. WHEN SEDIMENT TRAPS ARE REMOVED THE DISTURBED AREA SHALL BE DRILLED SEEDED AND CRIMP
- MULCHED OR STABILIZED IN A MANNER APPROVED BY SEMSWA.







JOINTS - SECTION B SCALE: N.T.S.

SILT FENCE INSTALLATION NOTES

- 1. SEE PLAN VIEW FOR: LOCATION AND LENGTH OF FENCE
- 2. ANCHOR TRENCH SHALL BE EXCAVATED WITH TRENCHER, OR WITH SILT FENCE INSTALLATION MACHINE: NO ROAD GRADERS, BACKHOES, ETC. SHALL BE USED. TRENCH SHALL BE COMPACTED BY HAND, WITH "JUMPING JACK", OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
- 3. SILT FENCE GEOTEXTILE SHALL MEET THE FOLLOWING REQUIREMENTS: • 6-TO 12-GALLONS PER MINUTE PER SQUARE FOOT FLOW CAPACITY.
- 90 LB. TENSILE STRENGTH PER ASTM D4622. • UV DESIGN AT 500 HRS MIN. 70% STRENGTH RETAINED PER ASTM D 4355.
- 4. SILT FENCE INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY LAND-DISTURBING

SILT FENCE MAINTENANCE NOTES

- 1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE
- 2. SEDIMENT ACCUMULATED UPSTREAM OF SILT FENCE SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT 3. SILT FENCE SHALL BE REMOVED WHEN THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS
- APPROVED BY SEMSWA. IF ANY DISTURBED AREA EXISTS AFTER REMOVAL, IT SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.
 - SF SILT FENCE (20)

SEEDING AND MULCHING INSTALLATION NOTES 1. SEE PLAN VIEW FOR:

- AREA OF SEEDING AND MULCHING.
- TYPE OF SEED MIX. 2. ALL BRANDS FURNISHED SHALL BE FREE FROM SUCH NOXIOUS SEEDS AS RUSSIAN OR CANADIAN THISTLE, COARSE FESCUE, EUROPEAN BINDWEED, JOHNSON GRASS, KNAP WEED AND LEAFY SPURGE.
- 3. THE SEEDER SHALL FURNISH TO THE CONTRACTOR A SIGNED STATEMENT CERTIFYING THAT THE SEED FURNISHED IS FROM A LOT THAT HAS BEEN TESTED BY A RECOGNIZED LABORATORY. SEED WHICH HAS BECOME WET, MOLDY, OR OTHERWISE DAMAGED IN TRANSIT OR IN STORAGE WILL NOT BE ACCEPTABLE. SEED TICKETS SHALL BE PROVIDED TO SEMSWA UPON REQUEST. 4. DRILL SEEDING MIX SHALL CONFORM TO THE TABLE BELOW: UNLESS OTHERWISE APPROVED BY SEMSWA.
- 5. IF THE SEED AVAILABLE ON THE MARKET DOES NOT MEET THE MINIMUM PURITY AND GERMINATION PERCENTAGES SPECIFIED, THE CONTRACTOR MUST COMPENSATE FOR A LESSER PERCENTAGE OF PURITY OR GERMINATION BY FURNISHING SUFFICIENT ADDITIONAL SEED TO EQUAL THE SPECIFIED PRODUCT. THE TAGS FROM THE SEED MIXES MUST BE SUPPLIED TO CONTRACTOR AND FORWARDED TO THE SEMSWA GESC
- 6. THE FORMULA USED FOR DETERMINING THE QUANTITY OF PURE LIVE SEED (PLS) SHALL BE (POUNDS OF SEED) X (PURITY) X (GERMINATION) = POUNDS OF PURE LIVE SEED (PLS).
- 7. PERMANENT SEED MIX SHALL BE USED UNLESS OTHERWISE APPROVED BY SEMSWA. 8. ALL AREAS TO BE SEEDED AND MULCHED SHALL HAVE NATIVE TOPSOIL OR APPROVED SOIL AMENDMENTS SPREAD TO A DEPTH OF AT LEAST 6 INCHES (LOOSE DEPTH). ALL DISTURBED AREAS SHALL BE LOOSENED TO A DEPTH OF 6 INCHES PRIOR TO SPREADING TOPSOIL.
- 9. SOIL IS TO BE THOROUGHLY LOOSENED (TILLED) TO A DEPTH OF AT LEAST 6 INCHES PRIOR TO SEEDING. THE TOP 6 INCHES OF THE SEED BED SHALL BE GENERALLY FREE OF ROCKS GREATER THAN 4 INCHES AND SOIL CLODS GREATER THAN 2 INCHES. SEEDING OVER ANY COMPACTED AREAS THAT HAVEN'T BEEN
- THOROUGHLY LOOSENED SHALL BE REJECTED. 10. SEED IS TO BE APPLIED USING A MECHANICAL DRILL TO A DEPTH OF 1/4 INCH. ROW SPACING SHALL BE NO MORE THAN 6 INCHES. MATERIAL USED FOR MULCH SHALL CONSIST OF LONG-STEMMED STRAW. AT LEAST 50 PERCENT OF THE MULCH, BY WEIGHT, SHALL BE AS LONG AS POSSIBLE IN LENGTH. MULCH SHALL BE
- APPLIED AND MECHANICALLY ANCHORED TO A DEPTH OF AT LEAST 3 INCHES. MULCH SHALL BE APPLIED AT A RATE OF 2000 LB. OF STRAW PER ACRE.
- 11. IF THE PERMITTEE DEMONSTRATES TO SEMSWA THAT IT IS NOT POSSIBLE TO DRILL SEED, SEED IS TO BE UNIFORMLY BROADCAST AT TWO TIMES THE DRILLED RATE, THEN LIGHTLY HARROWED TO PROVIDE A SEED DEPTH OF APPROXIMATELY 1/4 INCH, THEN ROLLED TO COMPACT, THEN MULCHED AS SPECIFIED ABOVE.
- 12. WHEN SEEDING AND MULCHING IS USED TO STABILIZED DISTURBED AREAS, ALL DISTURBED AREAS WHICH ARE EITHER FINAL GRADED, OR WILL REMAIN INACTIVE FOR A PERIOD OF MORE THAN 30 DAYS SHALL BE REQUIRED TO BE STABILIZED WITHIN 14 DAYS OF THE COMPLETION OF THE GRADING ACTIVITIES. THIS MAY REQUIRED MULTIPLE MOBILIZATIONS FOR SEEDING AND MULCHING.
- 1.3 MULCH SHALL BE APPLIED WITHIN 24-HOURS OF SEEDING 14. TACKIFIER SHALL BE UTILIZED TO HELP WITH STRAW DISPLACEMENT.

70% OF THE EXISTING/ PRE-CONSTRUCTION CONDITION.

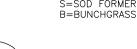
SEEDING AND MULCHING MAINTENANCE NOTES

FREE OF FRODED AREAS

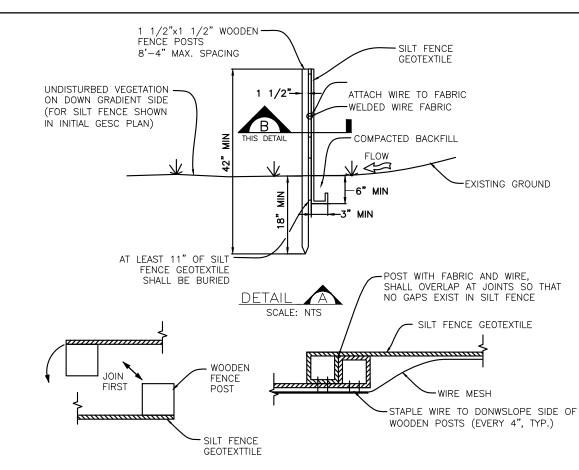
- SEEDED AND MULCHED AREAS SHALL BE INSPECTED FOR REQUIRED COVERAGE MONTHLY UNTIL FINAL ACCEPTANCE IS ISSUED. REPAIRS AND RE-SEEDING AND MULCHING SHALL BE UNDERTAKEN AFTER THE FIRST GROWING SEASON FOR ANY AREAS FAILING TO MEET THE REQUIRED COVERAGE. 2. REQUIRED COVERAGE FOR STANDARD, OPEN SPACE AND LOW GROWTH SEED MIXES SHALL BE DEFINED AS
- FREE FROM INFESTATION OF NOXIOUS WEEDS IN ACCORDANCE WITH THE GESC CRITERIA MANUAL. SHALL BE APPROVED BY SEMSWA
- RILL AND GULLY EROSION SHALL BE FILLED WITH TOPSOIL PRIOR TO RESEEDING. THE RESEEDING METHOD

TEMPORARY DRILL SEEDING MIX

<u>SPECIES</u>	<u>VARIETY</u>	NOTES	% IN MIX	POUNDS OF PLS PER ACRE
SMOOTH BROMEGRASS	LINCOLN	PICS	30	3.9
INTERMEDIATE WHEATGRASS	OAHE	PICS	30	4.5
PUBESCENT WHEATGRASS	LUNA	PICS	30	4.2
ANNUAL RYEGRASS	N/A	AICB	10	0.8
NOTES: P=PERENNIAL A=ANNUAI		TOTAL	100	13.4
	I=INTRODUCED C=COOL SEASON			







JOIN BOTH POST TOGETHER FIRST, THEN ROTATE SECOND. POSTS SHALL BE JOINED AS SHOWN (FABRIC ONLY, EXCLUDING WELD WIRE) THE ROTATED 180 DEGREES IN DIRECTION SHOWN AND THEN DRIVEN INTO GROUND.

JOINTS - SECTION B

SCALE: N.T.S.

SILT FENCE INSTALLATION NOTES 1. SEE PLAN VIEW FOR:

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UTILITY NOTIFICATION CENTER OF COLORADO CALL BEFORE YOU DIG

Call 2 days prior to any digging, grading or

excavating for the marking of underground member utilities

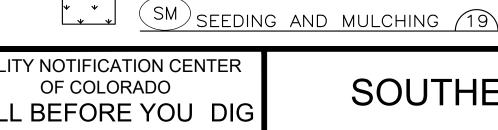
CENTENNIAL COLORADO 80112-4486

(303) 858-8844 - INSPECTION DIVISION



GRADING EROSION AND SEDIMENT CONTROL STANDARD NOTES AND DETAILS **REVISED FEBRUARY 2023**

GESC SHEET 3 OF 4



BECKMANINIA

SYZIGACHNE

CANADENSIS

CESPITOSA

ELEOCHARIS

PAI USTRIS

JUNCUS BALTICUS

JUNCUS NODOSUS

1 TO BE INSTALLED AT APPROXIMATELY 0" TO 6" ABOVE WATER LINE.

ELYMUS CANADENSIS

SPP. PSAMMOPHILUS

TRACHYCAULUS

PANICUM VIRGATUM

AIROIDES

CANADA WILDRYE ELYMUS CANADENSIS COOL

UNCUS BALTICUS

SPOROBOLUS

PANICUM VIRGATUM | WARM

PASCOPYRUM SMITHII COOL

¹ TO BE INSTALLED AT APPROXIMATELY 6" TO 24" ABOVE WATER LINE.

JUNCUS BALTICUS | COOL

COPYRUM SMITHII COOL

JUNCUS TORREYI COOL

CALAMAGROSTIS

COOL

COOL

COOL

COOL

PLS = PURE LIVE SEED PER POUND BASED 60 SEEDS PER SQUARE FOOT. IF BROADCAST SEEDING, DOUBLE THE RATE APPLIED.

PERMANENT DRILL SEEDING" - TRANSITION SEED MIX - WITHOUT FORBS

SCIENTIFIC NAME | SEASON % IN MIX | SEEDS/LB.

WARM

² PLS = PURE LIVE SEED PER POUND BASED 60 SEEDS PER SQUARE FOOT. IF BROADCAST

³ IF DESIRED, SHRUBS FROM THE WILLOW SHRUBLAND PLANT COMPOSITION SCHEDULE CAN BE

PERMANENT DRILL SEEDING - TRANSITION SEED MIX - WITH FORBS

COOL

WARM

1.150.000

2,270,000

10 2,500,000

10 | 12,300,000

12,300,000

115.000

156,000

159,000

110,000

1,758,000

156.000

159,000

389,000

15 10,900,000

15 1,758,000

12.4 LBS PLS²/AC

15 | 10,900,000

15

SCIENTIFIC NAME | SEASON | % IN MIX | SEEDS/LB. | LBS PLS²/AC

2 LBS PLS²/AC

COOL 15 620,000

0.5

0.2

0.1

0.1

3.4

2.5

1.6

0.1

1.0

3.6

0.2

3.4

2.5

0.1

1.0

3.6

SLOUGH GRASS

CANADIAN REED

TUFTED HAIR GRASS

KNOTTED RUSH

CANADA WILDRYE

WHEATGRASS

SLENDER WHEAT

GRASS

BALTIC RUSH

SWITCHGRASS

WESTERN

SAND DROPSEED

SLENDER WHEAT

BALTIC RUSH

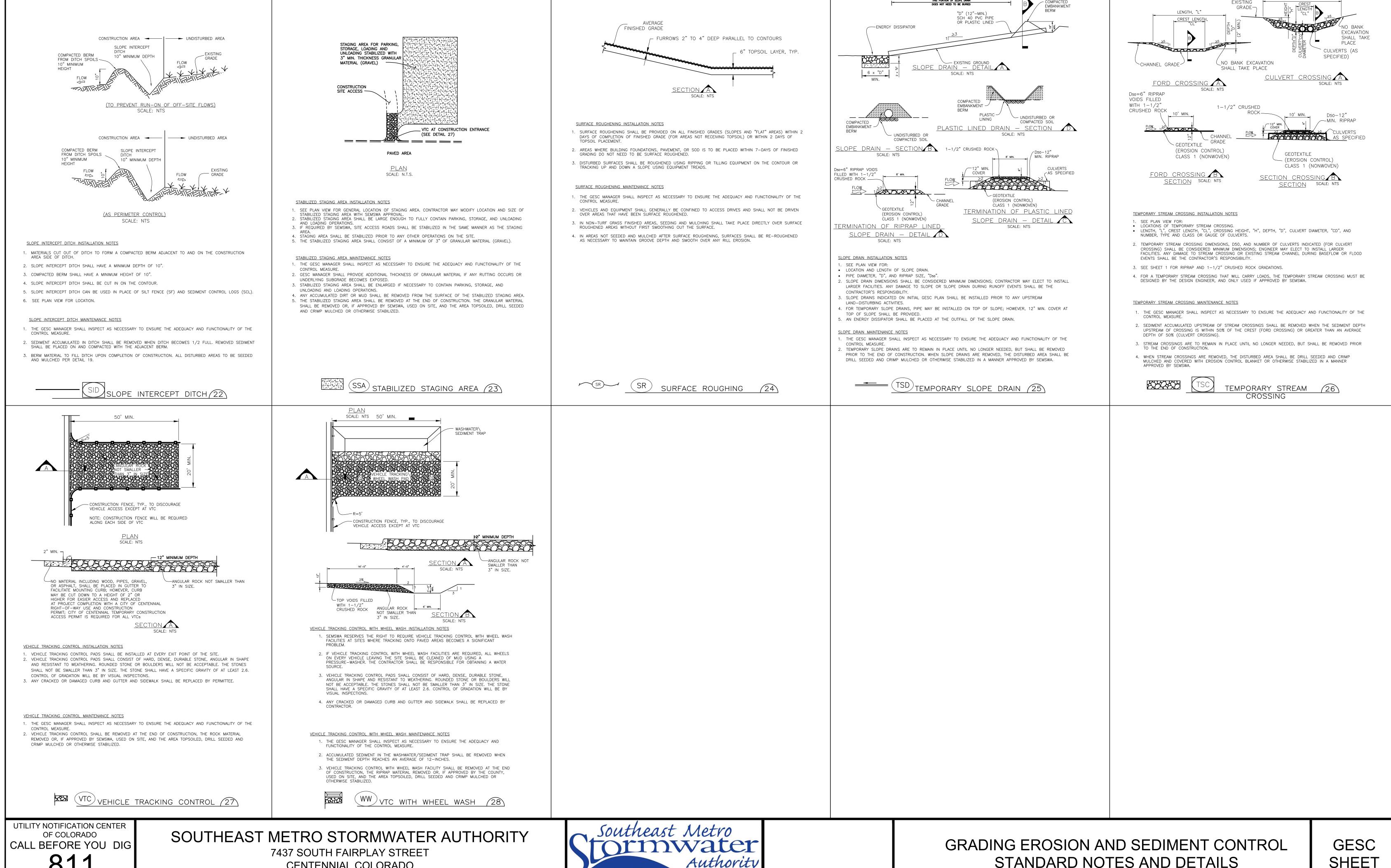
SWITCHGRASS

WHEATGRASS

WHEATGRASS

SEEDING, DOUBLE THE RATE APPLIED.

SOUTHEAST METRO STORMWATER AUTHORITY 7437 SOUTH FAIRPLAY STREET



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STANDARD NOTES AND DETAILS **REVISED FEBRUARY 2023**

SHEET 4 OF 4