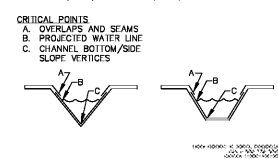
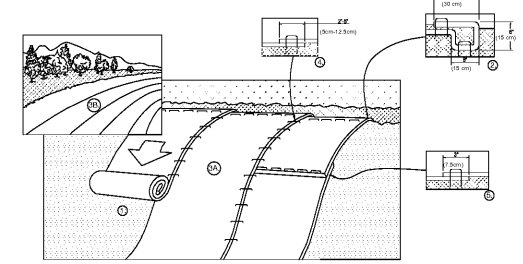


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 8" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDING BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLS) WITH A 4" (10cm-15cm) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 8" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2'-0" (5cm-12.5cm) (DEPENDING ON BLANKET TYPE) AND STAPLED. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE BLANKET BEING OVERLAPPED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9m-12m) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 8" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.



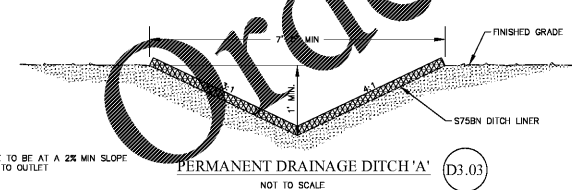
D3.01 CHANNEL LINER INSTALLATION
NOT TO SCALE



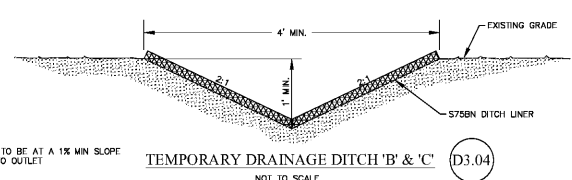
SLOPE INSTALLATION

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 8" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDING BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A) DOWN OR (B) UPWARDLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2'-0" (5cm-12.5cm) OVERLAP. (DEPENDING ON BLANKET TYPE). TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SHOULD BE PLACED END OVER END (SHINGLE STYLS) WITH A 4" (10cm-15cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

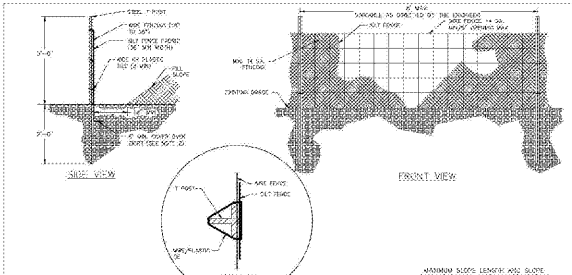
D3.02 EROSION CONTROL SLOPE BLANKET INSTALLATION
NOT TO SCALE



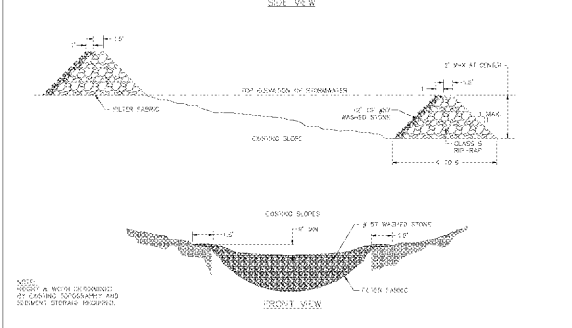
PERMANENT DRAINAGE DITCH 'A'



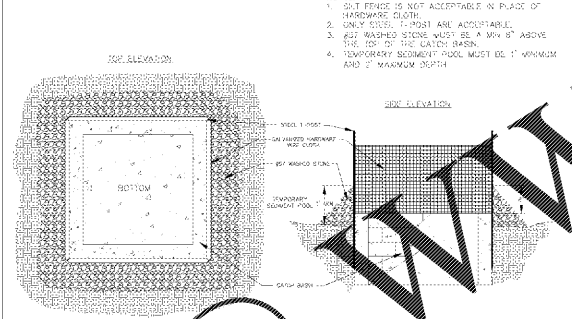
TEMPORARY DRAINAGE DITCH 'B' & 'C'



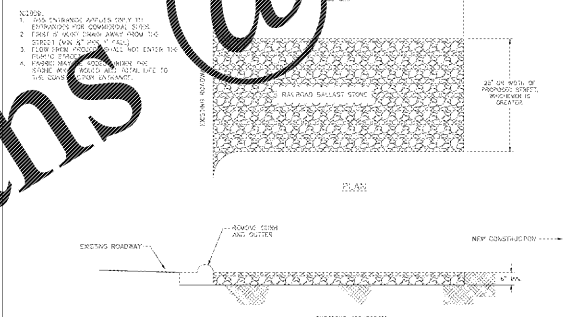
STANDARD TEMPORARY SILT FENCE



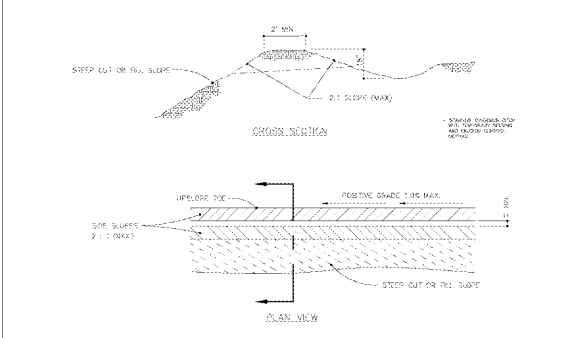
CHECK DAM



STANDARD CATCH BASIN INLET PROTECTION



COMMERCIAL CONSTRUCTION ENTRANCE



DIVERSION DITCH

CITY OF ASHEVILLE CONSTRUCTION SEQUENCE

- GENERAL: ALL EROSION CONTROL MEASURES ARE TO BE PERFORMED IN STRICT ACCORDANCE WITH REQUIREMENTS OF THE CITY OF ASHEVILLE. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE COMPLIED WITH FOR ALL WORK.
1. SUBMIT PLANS FOR REVIEW.
 2. OBTAIN GRADING PERMIT (MAY INCLUDE PRECONSTRUCTION CONFERENCE).
 3. SUBMIT FOUR (4) COPIES OF STORMWATER COMPONENT SHOP DRAWINGS AT OR PRIOR TO THE PRECONSTRUCTION MEETING AND RECEIVE APPROVAL BY THE CITY OF ASHEVILLE PRIOR TO ORDERING MATERIALS.
 4. INSTALL ALL EROSION CONTROL MEASURES AS SHOWN.
 5. ON-SITE INSPECTION BY INSPECTOR TO APPROVE PERIMETER EROSION CONTROL DEVICES.
 6. PROCEED WITH GRADING.
 7. REPAIR OR REPLACE ALL EROSION CONTROL MEASURES AS NEEDED.
 8. SEED AND MULCH DENUDE AREA, AS REQUIRED, AFTER FINISHED GRADES ARE ESTABLISHED.
 9. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER ESTABLISHED.
 10. REQUEST FINAL APPROVAL BY CONSTRUCTION INSPECTOR, AND.
 11. REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND STABILIZE THESE AREAS.

TEMPORARY AND PERMANENT SEEDING MEASURES

SEEDING AND MULCHING SHALL BE APPLIED IMMEDIATELY FOLLOWING THE COMPLETION OF ANY PHASE OF GRADING. ALL DISTURBED AREAS SHALL BE DRESSED TO A DEPTH OF FIVE (5) INCHES. THE TOP TWO (2) INCHES SHALL BE PULVERIZED TO PROVIDE A UNIFORM SEEDBED.

AGRICULTURAL LIME SHALL BE APPLIED AT THE RATE OF 95 LBS./1000 SQ. FT. IMMEDIATELY BEFORE SEED BED PREPARATION. GRASS SEED SHALL BE APPLIED AT THE RATES OUTLINED IN TABLE 7-1: SEEDING AND MULCHING. 9-10-10 FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS AT A RATE OF 21 LB/1000 SQ. FT. MULCHING SHALL CONSIST OF SMALL GRAIN STRAW APPLIED AT A RATE OF 70 LB/1000 SQ. FT. MULCHED AREAS SHALL BE TACKED AN APPROVED METHOD SUFFICIENT TO HOLD THE STRAW IN PLACE. REFER TO CHAPTER 3 OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES (NCEM) EROSION AND SEDIMENTATION CONTROL PLANNING AND DESIGN MANUAL FOR MORE DETAILS CONCERNING SEEDING AND MULCHING PROCEDURES. IF ACTIVE CONSTRUCTION CEASES IN ANY AREA FOR MORE THAN 14 DAYS, GROUND COVER IS REQUIRED TO ALL DISTURBED AREAS AS DESCRIBED IN "APPENDIX C: GROUND COVER."

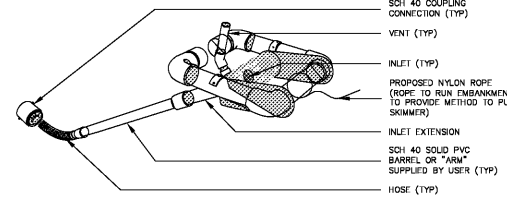
AFTER CONSTRUCTION IS COMPLETE, ALL DISTURBED AREAS SHALL RECEIVE A PERMANENT GROUND COVER IN ACCORDANCE WITH THE SEEDING AND MULCHING SCHEDULE IN TABLE 7-1: SEEDING AND MULCHING. PERMANENT SEEDING AND TEMPORARY SEEDING DIFFER ONLY IN THE TYPE OF SEED TO BE USED - ANNUAL VERSUS PERENNIAL. PERMANENT GROUND COVER IS THE ESTABLISHMENT OF PERENNIAL VEGETATION COVER FOR PERIODS LONGER THAN TWELVE (12) MONTHS. SEED BED PREPARATIONS AND SOIL AMENDMENTS SHALL BE IN ACCORDANCE WITH "7-1: SEEDING AND MULCHING," AS A PART OF PERMANENT SEEDING. MAINTENANCE SHALL BE REQUIRED TO MAINTAIN VEGETATION GROWTH FOR TWELVE (12) MONTHS. THIS MAINTENANCE SHALL BE CONSIDERED A PART OF ESTABLISHING PERMANENT GROUND COVER.

AREA TYPE	AUGUST 1ST TO JUNE 1ST		MAY 1ST TO SEPTEMBER 1ST	
	LBS./ACRE	SEED TYPE	LBS./ACRE	SEED TYPE
SHOULDER AND MEDIAN	25	KENTUCKY BLUEGRASS	25	KENTUCKY BLUEGRASS
	75	HARD FESCUE	75	HARD FESCUE
AREAS BEYOND MOWING PATTERNS, WASTE AND BORROW	100	KENTUCKY BLUEGRASS	100	FALL FESCUE
	150	HARD FESCUE	150	HARD FESCUE
AREAS BEYOND MOWING PATTERNS, WASTE AND BORROW	25	RYE GRASS	10	GERMAN OR BLOWTOP MILLET
	500	FERTILIZER	500	FERTILIZER
AREAS BEYOND MOWING PATTERNS, WASTE AND BORROW	4000	LIMESTONE	4000	LIMESTONE
	100	FALL FESCUE	100	FALL FESCUE
AREAS BEYOND MOWING PATTERNS, WASTE AND BORROW	100	KENTUCKY BLUEGRASS	15	KENTUCKY BLUEGRASS
	300	HARD FESCUE	30	HARD FESCUE
AREAS BEYOND MOWING PATTERNS, WASTE AND BORROW	25	RYE GRASS	10	GERMAN OR BLOWTOP MILLET
	500	FERTILIZER	500	FERTILIZER
AREAS BEYOND MOWING PATTERNS, WASTE AND BORROW	4000	LIMESTONE	4000	LIMESTONE
	100	FALL FESCUE	100	FALL FESCUE

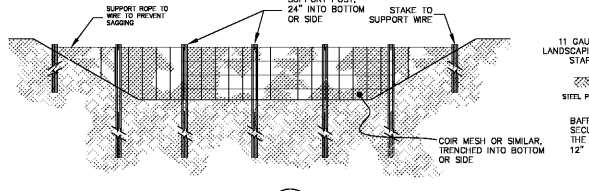
GROUND STABILIZATION

SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
PERIMETER Dikes, SWALES, DITCHES, AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES GREATER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
SLOPES 3:1 OR FLATTER	14 DAYS	7-DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)

*EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE. (SECTION 8(C)(B))



D3.05 POND SKIMMER DETAIL
NOT TO SCALE



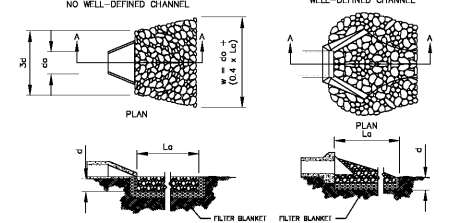
D3.06 BAFFLE DETAIL
NOT TO SCALE

GENERAL NOTES FOR EROSION CONTROL

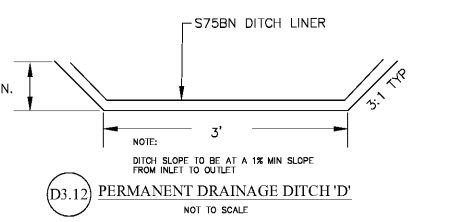
1. ALL GRADING AND SOIL EROSION CONTROL MEASURES ON THIS SITE MUST BE AUTHORIZED BY PERMITS ISSUED BY THE CITY OF ASHEVILLE. ALL STORMWATER SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL REGULATORY STANDARDS AND ALL REQUIREMENTS IN THE PROJECT TECHNICAL SPECIFICATIONS.
2. CONTRACTOR TO VERIFY WITH ENGINEER THAT THE REQUIRED GRADING, EROSION CONTROL, LAND DISTURBANCE, AND ASSOCIATED NON-GRADING PERMITS HAVE BEEN OBTAINED PRIOR TO BEGINNING CONSTRUCTION.
3. ALL CONSTRUCTION SHALL BE UNDER THE INSPECTION OF THE ENGINEER, THE OWNER, AND CITY OF ASHEVILLE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 72 HOURS PRIOR TO BEGINNING WORK. ANY WORK COVERED FROM INSPECTION IS SUBJECT TO UNCOVERING AND BACKFILLING AT THE CONTRACTOR'S EXPENSE.
4. ALL WORK MUST BE PERFORMED BY A NORTH CAROLINA LICENSED CONTRACTOR.
5. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING THE EXACT LOCATION AND ELEVATION FOR ALL UTILITIES PRIOR TO CONSTRUCTION, AND TO NOTIFY ENGINEER OF ANY CONFLICTS OR DEVIATIONS. THE LOCATION OF SOME UTILITIES SHOWN ON THE PLANS HAVE BEEN APPROXIMATED. ALL BURIED UTILITIES HAVE NOT BEEN SHOWN ON THE PLANS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR LOCATION PRIOR TO CONSTRUCTION.
6. PROTECT EXISTING SITE FEATURES (SHOWN TO REMAIN) AND NEWLY COMPLETED DURING CONSTRUCTION. ANY DAMAGE INCURRED DURING OR RESULTING FROM CONSTRUCTION ACTIVITY IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED IN ACCORDANCE WITH APPLICABLE STANDARDS OF APPROVED AGENCIES, AS WELL AS THE PROJECT PLANS AND SPECIFICATIONS, AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS BEFORE CONSTRUCTION ACTIVITY IS TO BEGIN. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AT 8:00 AM ON THE DAY BEFORE CONSTRUCTION BEGINS. NOTIFY THE ENGINEER AT LEAST 72 HOURS BEFORE CONSTRUCTION ACTIVITY BEGINS.
8. EROSION CONTROL IS A FIELD PERFORMANCE BASED ACTIVE AND DYNAMIC. SILT FENCES, TEMPORARY SEDIMENT BASINS, AND OTHER MEASURES MAINTAINED TO BE ADDED IN ADDITION TO THE APPROVED PERMITS. THESE MEASURES SHALL BE ADJUSTED TO ASSURE PROPER PROTECTION ON SITE. CONTRACTOR SHALL ADD ADDITIONAL MEASURES AS NEEDED IN ENVIRONMENTALLY SENSITIVE AREAS.
9. CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MAINTAINING, AND REMOVING ALL NECESSARY EROSION CONTROL MEASURES AND SEDIMENTATION CONTROL MEASURES.
10. THE CONTRACTOR IS RESPONSIBLE FOR THE PROVISION OF ADJUSTMENT OF ALL UTILITY COMPANIES ACCESS WITHIN THE WORK AREA. THE CONTRACTOR SHALL PERFORM THE WORK OR A UTILITY COMPANY PERFORMS THE WORK.
11. ALL AREAS WHERE THERE IS EXPOSED SOIL SHALL BE SEED, FERTILIZED AND MULCHED ACCORDING TO THE SEEDING AND MULCHING SCHEDULE IN THE PLANS. SITE STABILIZATION IS A PERMANENT MEASURE. PERMANENT SEEDING AND MULCHING SHALL BE APPLIED TO ALL DISTURBED AREAS. PERMANENT SEEDING IS ESTABLISHED TO THE SATISFACTION OF THE ENGINEER.
12. CONTRACTOR RESPONSIBLE FOR KEEPING ACCURATE LOG OF SITE CONDITIONS IN ACCORDANCE WITH NPDES PERMIT. MAINTENANCE INSPECTIONS SHALL BE PERFORMED IMMEDIATELY AFTER EACH RAINFALL. ALL REPAIRS NECESSARY SHOULD BE MADE IMMEDIATELY AND IN STRICT ACCORDANCE WITH CITY OF ASHEVILLE STANDARDS AND NPDES PERMIT. CONTRACTOR SHALL SUPPLY THE ENGINEER WITH RECORD OF DEVIATIONS FROM PLANS FOR PREPARATION OF FINAL RECORD DRAWINGS.
13. ALL SLOPES GREATER THAN 2:1 SLOPE AND OVER 6' IN HEIGHT SHALL BE CERTIFIED BY A LICENSED PROFESSIONAL AS REQUIRED BY CITY OF ASHEVILLE.
14. CONTRACTOR IS REQUIRED TO OBTAIN AND PROVIDE A COPY OF THE EROSION CONTROL PERMIT FOR ANY OFFSITE BORROW/SPOIL AREA. CONTRACTOR MUST PROVIDE COPY OF PERMIT TO CITY OF ASHEVILLE INSPECTOR PRIOR TO CONSTRUCTION.
15. IF BORROWED OR WASTE FILL MATERIAL IS GENERATED, AN APPROVED GRADING PERMIT MUST BE SECURED FOR THE BORROW OR WASTE MATERIAL SITE PRIOR TO INITIATION OF ANY LAND DISTURBING ACTIVITY.
16. ALL FILL SLOPES SHALL BE COMPACTED FULL DEPTH TO NOT LESS THAN 90% MAXIMUM DENSITY (STANDARD PROCTOR). SHALL BE PLACED ON A SURFACE CLEARED OF GROWTH AND DEBRIS, AND BE PROPERLY BENCHED AND DRAINED.
17. ALL FILL MATERIAL, UNLESS A PERMIT FROM NCEM DIVISION OF WASTE MANAGEMENT TO OPERATE A LANDFILL IS ON FILE FOR THE OFFICIAL SITE, SHALL BE FREE OF ORGANIC OR OTHER DEGRADABLE MATERIALS, MASONRY, CONCRETE AND BRICK SIZES EXCEEDING 12 INCHES, AND ANY MATERIALS WHICH COULD CAUSE THE SITE TO BE REGULATED AS A LANDFILL BY THE STATE OF NORTH CAROLINA.

EROSION CONTROL MAINTENANCE NOTES:

1. INSPECT EROSION CONTROL MEASURES ONCE A WEEK AND AFTER EVERY SIGNIFICANT RAINFALL. CONTRACTOR TO INSPECT MEASURES WITH PLANS AND DETAILS, INCLUDING SEDIMENT ACCUMULATION BEYOND DETAIL ALLOWANCE, AND ALSO DAMAGE OR FAILURE OF MEASURES.
2. WHEN SEDIMENT ACCUMULATION EXCEEDS DETAIL ALLOWANCE, CONTRACTOR TO REMOVE SEDIMENT AND/OR DEBRIS, AND RELOCATE TO ANOTHER AREA WITH SEDIMENT CONTROLS.
3. WHEN MEASURES ARE FOUND TO BE DAMAGED, CONTRACTOR TO REPAIR IMMEDIATELY TO BRING MEASURES BACK INTO COMPLIANCE WITH PLANS AND DETAIL REQUIREMENTS.
4. IF MEASURES ARE FOUND TO BE INSUFFICIENT, CONTRACTOR TO INSTALL ADDITIONAL MEASURES AS NEEDED TO ENSURE SEDIMENT REMAINS CONTROLLED ONSITE AS REQUIRED.
5. CONTRACTOR TO REMOVE MEASURES AND BRING AREA TO GRADE ONCE CONFIRMATION OF SITE STABILIZATION HAS BEEN REQUESTED AND RECEIVED FROM PROJECT ENGINEER.



D3.07 RIP-RAP APRON
NOT TO SCALE



D3.12 PERMANENT DRAINAGE DITCH 'D'
NOT TO SCALE

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SEAL 035023
2-12-2021
WESLEY GRANT SR.
REGISTERED PROFESSIONAL ENGINEER
NO. 40456
STATE OF NORTH CAROLINA

SUBMITTAL
03.12.2021
CONSTRUCTION DOCUMENTS
REVISIONS
KEY PLAN

SHEET
ROUGH GRADING & EROSION CONTROL DETAILS
C931
DESIGN: DS
DRAWN: DS
REVIEW: CSR
CN 7904-A