

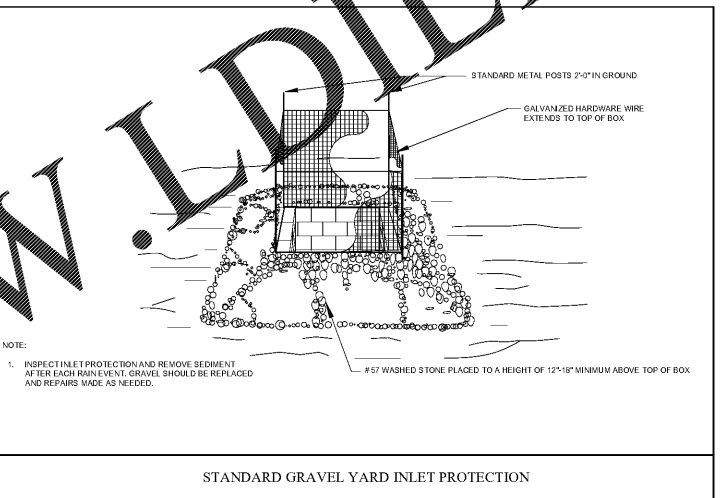
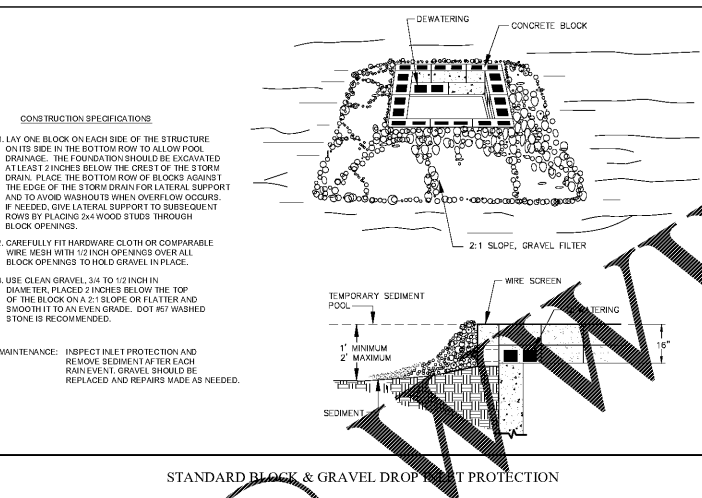
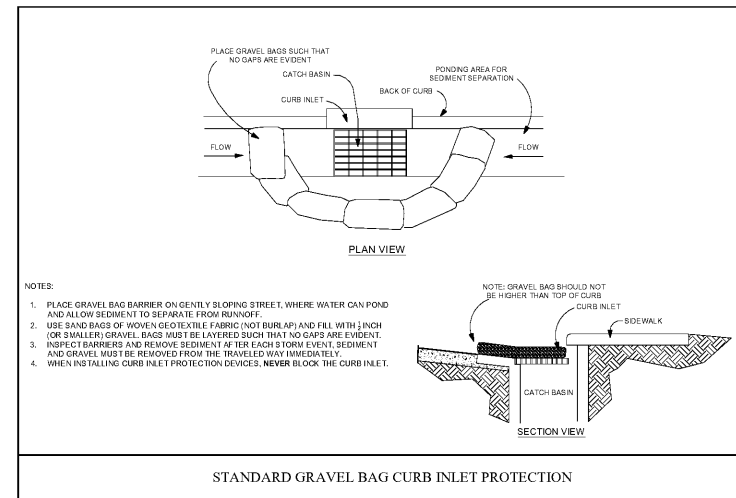
**SEEDING SCHEDULE**

DATE	TYPE	PLANTING RATE
11/1/11	Topsoil	300 lb/acre
11/1/11	Tall Fescue & Annual Ryegrass	300 lb/acre
3/1/15	Tall Fescue	300 lb/acre
4/15/15	Hulled Common Bermudagrass	25 lb/acre
6/30/15	Tall Fescue and 1/2" Densetop Millet or Sorghum-Sudangrass	35 lb/acre

NOTES:  
 1. TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12 INCHES IN HEIGHT SET BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.  
 2. AN EXCELLENT GUIDE FOR THE PREPARATION OF A TEMPORARY SEEDING SPECIFICATION IS PRACTICE STANDARD #10, TEMPORARY SEEDING, FOUND IN THE NCCENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL. WHEN A PERMANENT SEEDING SPECIFICATION IS NEEDED FOR A NEWLY CONSTRUCTED, MODIFIED, OR REPAIRED DAM, PRACTICE STANDARD #11, PERMANENT SEEDING, FOUND IN THE SAME DESIGN MANUAL, CAN BE USED AS A GUIDE FOR THE PREPARATION OF THE SPECIFICATION. ALTHOUGH CROWN VETCH IS A PERENNIAL PLANT WITH SMALL FINE FLOWERS AND SEVERAL LESSEER SPECIES ARE LISTED IN SEVERAL OF THE SEEDING MIXTURES FOUND IN PRACTICE STANDARD #11 AND IN THE PAST HAS BEEN USED ON SOME DAMS IN NORTH CAROLINA, THEY ARE NO LONGER ACCEPTABLE ON DAMS BOTH BECAUSE OF THE EMBARRASSMENT SURFACE, PREVENTING EARLY DETECTION OF CRACKS, EROSION, AND OTHER DAMAGE. WITH CROWN VETCH, LARGE WEEDS, BRUSH AND TREES CAN BECOME ESTABLISHED AND PERIODIC HAND-LABOR IS THEN REQUIRED TO REMOVE UNWANTED TALL VEGETATION. CROWN VETCH IS NOT EFFECTIVE IN PREVENTING EROSION IN SOME AREAS AND IS ALSO EXPENSIVE TO ESTABLISH. VEGETATION MIXTURES THOSE WHICH HOLD WELL UNDER LOCAL CONDITIONS. OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.  
 3. CONSULT EROSION CONTROL ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENuded AREAS. VEGETATION MIXTURES THOSE WHICH HOLD WELL UNDER LOCAL CONDITIONS. OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

**SEEDBED PREPARATION**

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RFP THE ENTIRE AREA TO 4 INCHES DEPTH.
3. REMOVE ALL LOGS, ROCKS, ROOTS AND OTHER OBSTRUCTIONS LEAVING SURFACES RELATIVELY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZERS AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL.
  - FERTILIZER (LBS/AC) - 12-12-12
  - SUPERPHOSPHATE - 500 LBS/AC, 20%
  - LIME - 12 TONS/AC SMALL GRASS STRAW
  - ANCHOR ASPHALT EMULSION @ 300 GAL/AC
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FINE AND REASONABLY UNIFORM SEEDBED IS PREPARED AT 4" TO 6" DEEP.
6. SEED A PRELIMINARY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDBEDS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON. IF STANDS ARE DAMAGED, RE-ESTABLISH AT ORIGINAL LINE.
9. FERTILIZER AND SEEDING RATES.
10. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER STANDS ARE ESTABLISHED.



**EROSION CONTROL NARRATIVE**

JACKSON COUNTY GREEN ENERGY PARK IS LOCATED IN JACKSON COUNTY, NORTH CAROLINA OFF OF HAYWOOD ROAD OUTSIDE OF DILLSBORO, NORTH CAROLINA. THIS PROJECT CONSISTS OF DEMOLITION, CLEARING, GRUBBING, INSTALLATION OF EROSION CONTROL DEVICES, FINE GRADING AND INFRASTRUCTURE INSTALLATION FOR THE PROPOSED IMPROVEMENTS.

THE FOLLOWING SEDIMENTATION AND EROSION CONTROL DEVICES ARE PROPOSED TO BE INSTALLED ON THIS PROJECT: GRVEL CONSTRUCTION ENTRANCE, CHECK DAMS, TEMPORARY SILT FENCE AND SILT FENCE OUTLETS, SEEDING, MULCHING, AND VEGETATION. OTHER MEASURES MAY BE ADDED AS NEEDED. THE CONTRACTOR AND/OR INSPECTOR HAVE THE AUTHORITY TO ADD EROSION CONTROL MEASURES, IF NECESSARY, TO PREVENT SEDIMENT OR EROSION TO PROTECT ALL PUBLIC AND PRIVATE PROPERTY FROM DAMAGE.

**STAGE 1 - EROSION CONTROL CONSTRUCTION SEQUENCE**

1. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED BEFORE ANY LAND DISTURBING ACTIVITIES OCCUR. A COPY OF THE EASC PLAN, THE CDC, AND A HARD COPY OF THE PLAN MUST BE KEPT ON SITE, PRESENTLY IN PERMITS SOIL, AND ACCESSIBLE DURING INSPECTION.
2. CONTACT THE NCCENR REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND-DISTURBING ACTIVITY. THE CONTACT NUMBER IS (800) 366-6850.
3. SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE NC DEPARTMENT OF ENVIRONMENTAL QUALITY INSPECTOR.
4. INSTALL THE INITIAL PERMEABLE MEASURES INCLUDING TREE PROTECTION FENCE, SILT FENCE, AND SILT FENCE OUTLETS.
5. INSTALL CONSTRUCTION ENTRANCE.
6. EROSION CONTROL CHANNELS UNDESIRABLE TO BE INSTALLED IN ANY DRAINAGE AREAS, AS DETAILED ON THE PLAN, WITHIN 14 DAYS OF ANY ACTIVITY.
7. SCHEDULE A SITE INSPECTION OF INSTALLED EROSION CONTROL DEVICES WITH THE NC DEPARTMENT OF ENVIRONMENTAL QUALITY INSPECTOR FOR APPROVAL.
8. BEGIN CLEARING, GRUBBING AND DEMOLITION.
9. MAINTAIN TREE PROTECTION AND SILT FENCE UNTIL FINAL INSPECTION. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED AT ALL TIMES. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY. MAINTENANCE SHALL BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND MORE FREQUENTLY AS NEEDED. THIS PLAN A RAIN GAUGE MEASURE SHALL BE INSTALLED AT THE CONSTRUCTION ENTRANCE. THIS PLAN A RAIN GAUGE MEASURE SHALL BE INSTALLED AT THE CONSTRUCTION ENTRANCE.
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15. STABILIZE AREAS AS THE SITE IS BROUGHT TO THE DESIGN GRADE WITH SEEDING AND MULCHING. ALL GRADED AND SLOPED AREAS MUST BE STABILIZED WITHIN 14 DAYS OF REACHING FINAL GRADE. STABILIZATION IS REQUIRED WITHIN 14 DAYS OF ANY ACTIVITY.

**STAGE 2 - EROSION CONTROL CONSTRUCTION SEQUENCE**

1. BEGIN BRINGING SITE TO FINAL GRADES IN LANDSCAPED AREAS AND SUB GRADE BENEATH ROADS AND BUILDING FOUNDATIONS.
2. ONCE THE SITE IS AT SUB GRADE THE CONTRACTOR SHALL INSTALL THE ENTIRE STORM DRAINAGE SYSTEM AND INSTALL INLET PROTECTION AT EACH LOCATION ONCE IN PLACE.
3. ONCE THE STORM DRAINAGE AND UTILITY INSTALLATION IS COMPLETE, THE STONE BASE COURSE SHALL BE INSTALLED. ALL TRENCHES AND PROTECTION SHALL BE MAINTAINED AT EACH INLET.
4. ONCE THE BASE COURSE IS INSTALLED AND COMPACTED THE CONTRACTOR SHALL INSTALL THE BINDER ASPHALT.

**GENERAL NOTES - EROSION CONTROL**

1. ALL LAND DISTURBING ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE EROSION CONTROL PLAN.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES THROUGHOUT THE PROJECT.
3. ALL AREAS AND ACTIVITIES DURING CONSTRUCTION SHALL BE STABILIZED WITH TEMPORARY SEEDING AND MULCHING WITHIN 14 CALENDAR DAYS OF ANY ACTIVITY. TEMPORARILY OR PERMANENTLY SUSPENDING LAND-DISTURBING ACTIVITY. PERMANENT SEEDING SHALL BE PLACED WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
4. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AND TAKE ANY PRECAUTIONARY MEASURES TO PREVENT SEDIMENT FROM ENTERING ANY NATURAL STREAM CHANNEL LOCATED WITHIN THE SITE.
5. TEMPORARY SILT FENCE MAY BE REQUIRED TO BE INSTALLED IN AREAS WHERE BASINS HAVE BEEN MOVED, GRADED AND REEDED. THE SILT FENCE SHALL REMAIN IN PLACE UNTIL GRASS IS ESTABLISHED ON THE PLAN.
6. THE CONTRACTOR SHALL SUBMIT DOCUMENTATION REQUIRED UNDER THE SITE SPIDER STORMWATER PERMIT OF CONSTRUCTION ACTIVITY (NCD010000) TO STORMWATER INSPECTIONS THROUGHOUT THE PROJECT.

**EROSION CONTROL MAINTENANCE PLAN**

THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE STABILIZED BY VEGETATION COVER OR OTHER APPROPRIATE EROSION CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY GROUND COVER DEVICES OR STRUCTURES SUFFICIENT TO RESIST EROSION. PERMANENT GROUND COVER WILL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 14 WORKING DAYS OR NO MORE THAN 30 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION.

**STORM DRAINAGE/GRADING NOTES:**

1. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE, AND AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL MAINTAIN AN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. IN ADDITION TO THE MEASURES SHOWN IN THESE PLANS, THE CONTRACTOR SHALL USE INTERIM DRAINAGE

BERM, OR OTHER METHODS AS REQUIRED TO DIRECT DRAINAGE AS SHOWN ON THESE PLANS AND TO PREVENT SOIL AND CONSTRUCTION DEBRIS FROM FLOWING ON TO ADJACENT PROPERTIES OR AREAS.

7. SCHEDULE A FINAL SITE INSPECTION WITH THE NC DEPARTMENT OF ENVIRONMENTAL QUALITY INSPECTOR WHEN THE PROJECT IS COMPLETE. THE INSPECTOR SHALL CONTACT THE EASC PLAN.
8. ALL MATERIALS USED FOR BACKFILL SHALL BE FREE OF WOOD, ROOTS, ROCKS, BOULDERS, OR ANY OTHER NON-COMPATIBLE SOIL TYPE MATERIAL. UNSUBFACTORY MATERIALS ALSO INCLUDE MAN-MADE FILLS AND OTHER DEBRIS DERIVED FROM ANY SOURCE. ALL FILL MATERIAL SHALL BE TESTED AND APPROVED BY PROJECT GEOTECHNICAL ENGINEER. ALL FILL SHALL BE PLACED IN ACCORDANCE WITH PROJECT GEOTECHNICAL ENGINEER DIRECTION AND RECOMMENDATIONS. TESTING RESULTS SHALL BE PROVIDED TO OWNER TO VERIFY PROPER PLACEMENT.
9. THE CONTRACTOR SHALL PRIOR TO ANY OPERATIONS INVOLVING FILLING OR BACKFILLING, SUBMIT THE RESULTS OF THE PROCTOR TEST TOGETHER WITH A CERTIFICATION THAT THE SOIL TESTED IS REPRESENTATIVE OF THE MATERIALS TO BE USED ON THE PROJECT. TESTS SHALL BE CONDUCTED BY A CERTIFIED MATERIALS TESTING LABORATORY AND CERTIFICATIONS MADE BY A LICENSED PROFESSIONAL ENGINEER REPRESENTING THE LABORATORY. ALL SOIL USED SHALL BE IN ACCORDANCE WITH PROJECT GEOTECHNICAL ENGINEER REQUIREMENTS.
10. ALL DEMOLITION DEBRIS AND OTHER EXCESS MATERIAL SHALL BE SHADED OFF SITE.
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13. THE LOCATION OF EXISTING STORM SEWER STRUCTURES SHOWN ON THESE PLANS ARE APPROXIMATE. WHERE PROPOSED STORM SEWER PIPING TIES TO EXISTING STRUCTURES, PIPES, SHALES, ETC., THE CONTRACTOR SHALL FIELD ADJUST PROPOSED STORM SEWERS TO MATCH THE LOCATIONS OF THESE EXISTING FEATURES.
14. CONTRACTOR SHALL REMOVE ALL TOPSOIL THAT IS DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER TO BE UNSTABLE.

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JACKSON COUNTY  
 ANIMAL RESCUE CENTER AND GREEN ENERGY PARK  
 DILLSBORO, NORTH CAROLINA

**SHEET ISSUE**

NO.	DATE	DESCRIPTION	BY
1	9/2/2020	ISSUE FOR WR BID + PERMIT	WR



PRINCIPAL IN CHARGE: GARY WARNER  
 PROJECT ARCHITECT: WR  
 DRAWN BY: WR

SHEET TITLE: SITE DETAILS

SHEET NO. C6.1  
 PROJ. NO. 02-191340