

# SEEDING

Construction Specifications:

Timing:  
 Apply permanent seeding on areas left dormant for 1 year or more.  
 Apply permanent seeding when no further disturbances are planned.  
 To determine optimum seeding schedule, consult a local agronomist or erosion control specialist.

Apply permanent seeding before seasonal rains or freezing weather is anticipated.  
 Use dormant seeding for late fall or winter seeding schedules.

Seed Mixes:  
 Use seeds appropriate to the season and site conditions.  
 Consult local agronomist or erosion control specialists for seed mix.  
 Use a seed blend to include annuals, perennials and legumes.  
 Use seed rates based on pure live seed (PLS) of 80%. When PLS is below 80% adjust rates accordingly.

Site Preparation:  
 Bring the planting area to final grade and install the necessary erosion control practices.  
 Divert concentrated flows away from the seeded area.  
 Conduct soil test to determine pH and nutrient content. Roughen the soil by harrowing, tracking, grooving or furrowing.  
 Apply amendments as needed to adjust pH to 6.0-7.5. Incorporate these amendments into the soil.  
 Prepare a 3-5 inch (76-127 mm) deep seedbed, with the top 3-4 inches (76-102 mm) consisting of topsoil.

The seedbed should be firm but not compact. The top three inches of soil should be loose, moist and free of large clods and stones.  
 The topsoil surface should be in reasonably close conformity to the lines, grades and cross sections shown on the grading plans.

Planting:  
 Seed to soil contact is the key to good germination.  
 Seed should be applied immediately after seedbed preparation while the soil is loose and moist. If the seedbed has been idle long enough for the soil to become compact, the topsoil should be harrowed with a disk, spring tooth drag, spike tooth drag, or other equipment designed to conditions the soil for seeding.  
 Harrowing, tracking or furrowing should be done horizontally across the face of the slope.  
 Seed to soil contact is the key to good germination.  
 Always apply seed before applying mulch.

Apply seed at the rates specified using calibrated seed spreaders, cyclone seeders, mechanical drills, or hydroseeder so the seed is applied uniformly on the site.  
 Broadcast seed should be incorporated into the soil by raking or chain dragging, and then lightly compacted to provide good seed-soil contact.  
 Apply fertilizer as specified.

Apply mulch or erosion control blanket, as specified, over the seeded areas. Inspection and Maintenance:  
 Newly seeded areas need to be inspected frequently to ensure the grass is growing.  
 If the seeded area is damaged due to runoff, additional stormwater measures may be needed.  
 Spot seeding can be done on small areas to fill in bare spots where grass did not grow properly.

NOTE: DURING "HIGH FAILURE" MONTHS SEEDING CONTRACTOR TO SPREAD MULCH OR HAY FOR SLOPE STABILIZATION.

- USE A MINIMUM OF 40 LBS. SCARIFIED SEED. MINIMUMS MAY BE UNSCARIFIED, CLEAN HULLED SEED.
- USE EITHER COMMON SERICA OR INTERSTATE SERICA LESPEDEZA
- ALL AREAS TO BE SEEDING SHALL HAVE LIME APPLIED AT A RATE OF 90 LB./1000 SF. LIME AND FERTILIZER TO BE APPLIED PRIOR TO APPLICATION OF SEED AND MIXED THOROUGHLY WITH THE SOIL.
- ALL AREAS SEEDING SHALL HAVE AN APPLICATION OF STRAW MULCH (APPROXIMATELY 2 1/2 TONS PER ACRE) IMMEDIATELY AFTER PLANTING REGARDLESS OF PLANTING METHOD.
- MAINTAIN 1 YEAR MINIMUM
- FERTILIZER: AGRICULTURAL LIME 1 TON PER ACRE 8-12-12 OR 9-10-15 1000 LB. PER ACRE

## Ds2 — TEMPORARY SEEDING

PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS

SPECIES	BROADCAST Rates PLS per Acre 1000 SF	RESOURCE	REMARKS
LESPEDEZA ANNUAL (Lespedeza striata) ALONE ..... IN MIXTURES .....	40 lbs. 0.9 lb. 10 lbs. 0.2 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAN	200,000 SEED PER POUND MAY VOLUNTEER FOR SEVERAL YEARS USE INOCULANT EL
LOFGRASS, WEEPING (Eragrostis curvula) ALONE ..... IN MIXTURES .....	4 lbs. 0.1 lb. 2 lbs. 0.05 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAN	1,500,000 SEED PER POUND MAY LAST FOR SEVERAL YEARS MIX W/ SERICA LESPEDEZA
MILLET, BROWNTOP (Panicum fasciculatum) ALONE ..... IN MIXTURES .....	40 lbs. 0.9 lb. 10 lbs. 0.2 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAN	137,000 SEED PER POUND QUICK DENSE COVER WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDING AT HIGH RATES
RYE (Secale cereale) ALONE ..... IN MIXTURES .....	3 bu. (168 lbs.) 1/2 bu. (28 lbs.)	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAN	18,000 SEED PER POUND DENSE COVER DROUGHT TOLERANT AND WINTER-HARDY
RYEGRASS, ANNUAL (Lolium temeratum) ALONE .....	40 lbs. 0.9 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAN	227,000 SEED PER POUND DENSE COVER VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES

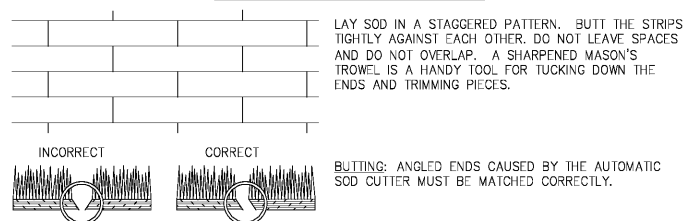
## Ds3 — PERMANENT SEEDING

PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS

SPECIES	BROADCAST Rates PLS per Acre 1000 SF	RESOURCE	REMARKS
BERMUDA, COMMON (Cynodon dactylon) Unhulled Seed ALONE ..... WITH OTHER PERENNIALS.....	10 lbs. 0.2 lb. 6 lbs. 0.1 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAN	1,787,000 SEED PER POUND QUICK COVER LOW GROWING AND SOIL FORMING FULL SUN GOOD FOR ATHLETIC FIELDS
BERMUDA, COMMON (Cynodon dactylon) Hulled Seed ALONE ..... WITH OTHER PERENNIALS.....	10 lbs. 0.2 lb. 6 lbs. 0.1 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAN	PLANT WITH WINTER ANNUALS PLANT WITH TALL FESCUE
CENTPEDE (Eremochloa ophiuroides)	Block Sod only	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAN	13,000 SEED PER POUND USE ON PRODUCTIVE SOILS NOT USED AS WINTER ANNUALS FOR OR GRASSY
FESCUE, TALL (Festuca arundinacea) ALONE ..... W/ OTHER PERENNIALS.....	50 lbs. 1.1 lb. 30 lbs. 0.7 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAN	227,000 SEED PER POUND USE ONE ON BEST SITES NOT FOR DROUGHT SOILS MIX W/ LESPEDEZA OR COMPANION CROPS TOPDRESSING SPRING FOLLOWING FALL PLANTINGS. NOT FOR HEAVY USE AREAS OR ATHLETIC FIELDS
LESPEDEZA, SERICEA (Lespedeza cuneata) SCARIFIED.....	60 lbs. 1.3 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAN	350,000 SEED PER POUND IDEALLY ADAPTED LOW MAINTENANCE MIX W/ WEEPING LOFGRASS COMMON BERMUDA, BAHIA OR TALL FESCUE. TAKES 2 TO 3 YEARS TO BECOME FULLY ESTABLISHED. EXCELLENT ON ROADBANKS INOCULANT SEED W/ EL INOCULANT
DESCRIBED.....	75 lbs. 1.7 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAN	MIX W/ TALL FESCUE OR WINTER ANNUALS.
SEED-BEARING HAY.....	3 tons 1.38 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAN	CUT WHEN SEED IS MATURE, BUT BEFORE IT SHEDS. ADD TALL FESCUE OR WINTER ANNUALS.
LOFGRASS, WEEPING (Eragrostis curvula) ALONE ..... W/ OTHER PERENNIALS.....	4 lbs. 0.1 lb. 2 lbs. 0.05 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAN	1,500,000 SEED PER POUND QUICK COVER DROUGHT TOLERANT GROWS WELL W/ SERICA LESPEDEZA ON ROADBANKS.

## Ds4 - SOD MAINTENANCE AND INSTALLATION

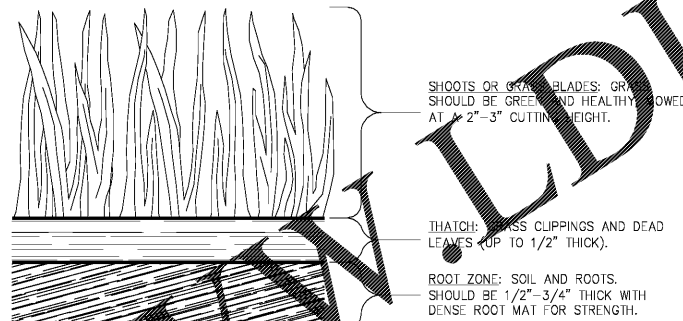
SOD LAYOUT AND PREPARATION



DIRECTIONS FOR INITIAL MAINTENANCE

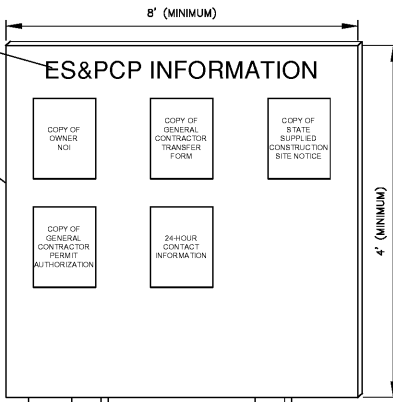
- Step 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.
- Step 2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.
- Step 3. MOW WHEN THE SOD IS ESTABLISHED -- IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD



\*ES&PCP INFORMATION\* MUST BE DISPLAYED PROMINENTLY ACROSS THE TOP OF THE SIGN, AS SHOWN IN THE DETAIL.

SIGN TO BE CONSTRUCTED OF A RIGID MATERIAL, SUCH AS PLYWOOD OR OUTDOOR SIGN BOARD. SIGN MUST BE CONSTRUCTED IN A MANNER TO PROTECT DOCUMENTS FROM DAMAGE DUE TO WEATHER (WIND, SUN, MOISTURE, ETC.).



- NOTES:
1. THE ES&PCP INFORMATION SIGN MUST BE LOCATED IN A PROMINENT, PUBLICLY ACCESSIBLE LOCATION NEAR THE MAIN ENTRANCE OF THE SITE, SUCH THAT THE DOCUMENTATION CAN BE READ WITHOUT ACCESSING THE JOBSITE, BUT NOT OBSTRUCTING VIEWS AS TO CAUSE A TRAFFIC SAFETY HAZARD. ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR THE PERMIT.
  2. ALL PAGES OF NOTICES OF INTENT AND PERMIT AUTHORIZATIONS MUST BE POSTED. THE CONTRACTOR MAY UTILIZE ACCESSIBLE WATERPROOF FOLDERS TO STORE THESE DOCUMENTS IF IT WILL BE DIFFICULT TO POST ALL PAGES INDIVIDUALLY.
  3. CONTRACTOR SHALL POST OTHER STORMWATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE GOVERNING AGENCIES.
  4. SUBSEQUENT PERMIT MODIFICATION REQUESTS OR RENEWAL APPLICATIONS AND THEIR ASSOCIATED AUTHORIZATIONS OR RESPONSES SHALL BE POSTED ON THE CBMPP SIGN.
  5. SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING AGENCY. CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THE CBMPP INFORMATION SIGN.

ES&PCP INFORMATION SIGN

N.T.S.

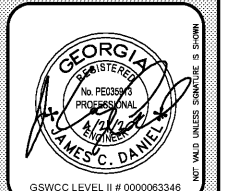
24-HOUR CONTACT  
 TRAVIS MEYER  
 (850) 660-1917

DATE	DESCRIPTION
4/17/2020	ISSUED FOR PERMITTING
NO.	0

ES&PCP DETAILS  
**FAST FOOD RESTAURANT**  
 GEORGIA HIGHWAY 49 & CANE RIVER DRIVE  
 BYRON, GEORGIA  
**30AIP BYRON, LLC**  
 SANTA ROSA BEACH, FLORIDA

DWN BY: M. SIMS, PE  
 CKD BY: J. DANIEL, PE  
 SCALE: NTS  
 DATE: 4/9/2020

**GONZALEZ - STRENGTH & ASSOCIATES, INC.**  
 CIVIL ENGINEERING - TRANSPORTATION ENGINEERING - LAND SURVEYING  
 LAND PLANNING - LANDSCAPE ARCHITECTURE  
 1550 WOODS OF RIVERCHASE DRIVE SUITE 200  
 HOOPER, ALABAMA 35024  
 PHONE: (205) 442-4896  
 FAX: (205) 442-5028  
 WWW.GONZALEZ-STRENGTH.COM



GSWCC LEVEL II # 0000063346  
 DWG NO. C4.B  
 PROJECT 20-0135

Order Plans

WWW.LDLINE.COM