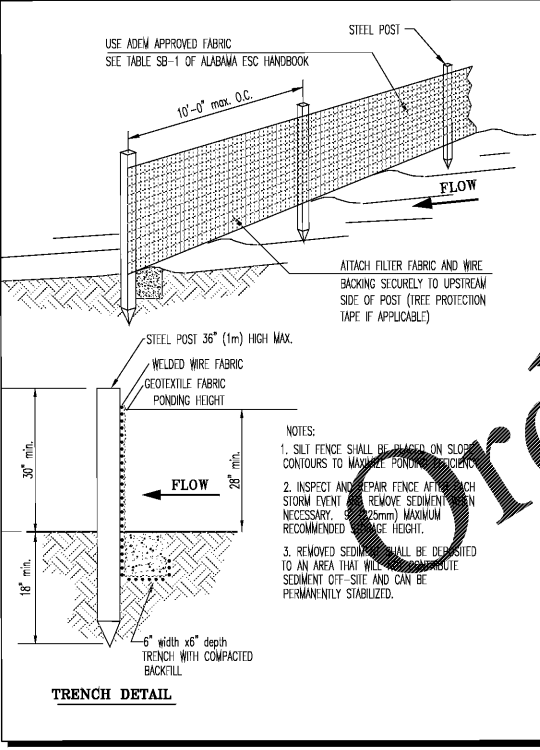


MU	TEMPORARY MULCHING
MUa	PERMANENT MULCHING

MULCHING APPLICATION REQUIREMENTS		
MATERIAL	RATE	DEPTH
Straw or hay	2 1/2 ton/acre	6" TO 10"
Wood waste, chips, sawdust, bark	6 to 9 ton/acre	2" TO 3"
Geotextiles, jute matting, netting, etc.	See manufacturer's recommendations	

PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS				
SPECIES	BROADCAST Rates PLS per Acre 1000 SF	RESOURCE	REMARKS	
SUANGRASS ALONE	40 lbs. 0.9 lb. 10 lbs. 0.2 lb.	NORTH CENTRAL SOUTH		
WHEAT ALONE	3 bu. 3.9 lb. (168 lbs.)	NORTH CENTRAL SOUTH		
MILLET, BROWN TOP ALONE IN MIXTURES	40 lbs. 0.9 lb. 10 lbs. 0.2 lb.	NORTH CENTRAL SOUTH	137,000 SEED PER POUND QUICK DENSE COVER WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES	
RYE (Secale cereale) ALONE IN MIXTURES	3 bu. 3.9 lb. (168 lbs.) 1/2 bu. 0.6 lb. (28 lbs.)	NORTH CENTRAL SOUTH	18,000 SEED PER POUND DENSE COVER DROUGHT TOLERANT AND WINTER HARDY	
RYEGRASS, ANNUAL ALONE	30 lbs. 0.7 lb.	NORTH CENTRAL SOUTH	227,000 SEED PER POUND DENSE COVER VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES	
COMMON BERMOUDGRASS ALONE	10 lbs. 0.25 lb.	NORTH CENTRAL SOUTH		
CRIMSON CLOVER ALONE	10 lbs. 0.25 lb.	NORTH CENTRAL SOUTH		



**SB SEDIMENT BARRIER (TYPE A)**

### SEEDING PS

**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 100%. When PLS is below 100% 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 CONTINUES TO SPREAD MULCH OR HAY FOR SLOPE STABILIZATION.**

— \*USE A MINIMUM OF 40 LBS. SCARIFIED SEED, REMAINDER MAY BE UNSCARIFIED, CLEAN HULLED SEED.  
— \*\*USE EITHER COMMON STRAW OR INTERSTATE STRAW LESPOZZA.  
— ALL AREAS TO BE SEEDED 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.  
— LIME: AGRICULTURAL LIME 1 TON PER ACRE (EXCEPTION ON SANDY SOILS - IF THE COVER WILL BE TALL FESCUE AND CLOVER) USE 2 TONS PER ACRE. DO NOT APPLY LIME TO ALKALINE SOILS.  
— FERTILIZER:  
GRASSES ALONE - USE 400 LBS PER ACRE OF 8-24-24 OR EQUIVALENT, APPLY 30 LBS OF ADDITIONAL NITROGEN WHEN GRASS HAS EMERGED AND BEGUN GROWTH (APPROXIMATELY 0.8 LBS/1000 SF).  
GRASS-LEGUME MIXTURES: USE 800 TO 1200 LBS/ACRE OF 5-10-10 OR EQUIVALENT.  
LEGUMES ALONE: USE 800 TO 1200 LBS/ACRE OF 0-10-10 OR EQUIVALENT.

### SOD SODDING

**SOIL PREPARATION**  
BRING SOIL SURFACE TO FINAL GRADE, CLEAR SURFACE OF TRASH, WOODY DEBRIS, STONES AND CLOSE LARGE SOIL SURFACES ONLY AND NOT FROZEN SURFACES, OR GRAVEL TYPE SOIL. TOPSOIL PROPERLY APPLIED WILL BE CLEAN AND A SAND. DO NOT USE TOPSOIL RECENTLY TREATED WITH HERBICIDES OR SOIL STABILIZERS. MAX FERTILIZER AND SOIL SURFACES SHOULD BE SEED.

Fertilizer Type	Fertilizer Rate (lb/1000 SF)	Fertilizer Rate (lb/100 SF)
10-10-10	1000	100

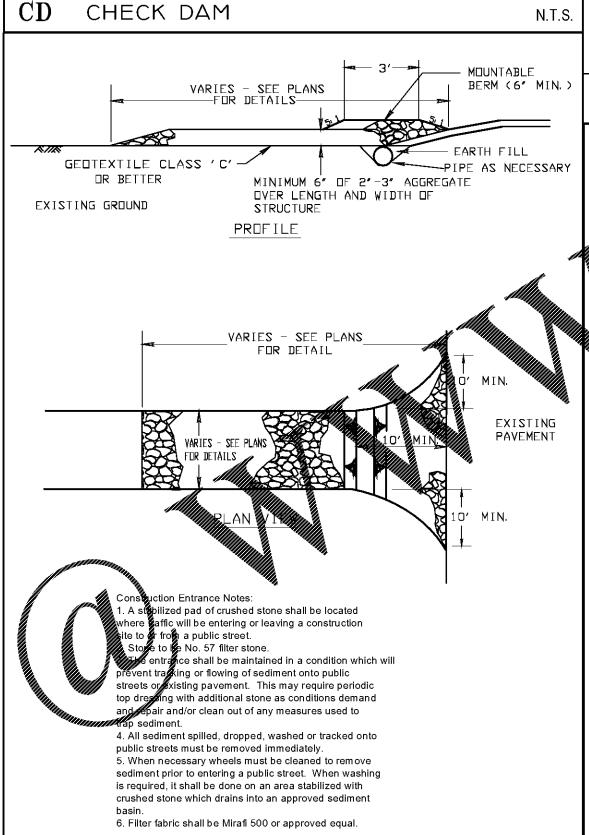
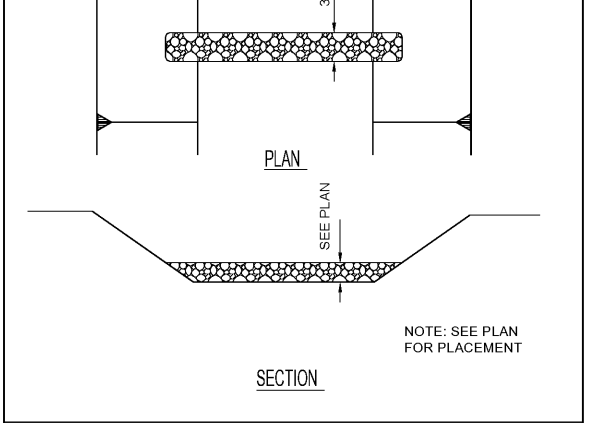
**INSTALLATION (STEP 1)** LAY SOD WITH TIGHT JOINTS AND IN STaggered PATTERN. OVERLAP JOINTS. DO NOT STRETCH SOD ON SLOPES STEEPER THAN 4:1. SOD SHOULD BE MOVED TO COVER EXPOSED AREAS. SOD SHOULD BE ROLLED OR UNROLLED TO PROVIDE GOOD CONTACT BETWEEN SODS. (5) THE SODS SHOULD BE MOVED BY THE AUTOMATIC SOD CUTTING MUST BE MOVED CORRECTLY. (STEP 3) RIGIDLY AND ANGLE SOIL TO A DEPTH OF 4" IMMEDIATELY AFTER INSTALLATION. SOD SHOULD NOT BE CUT OR SPREAD IN EXTREMELY WET OR DRY CONDITIONS. IRRIGATION SHOULD BE SUPPLEMENT RAINFALL FOR A MINIMUM OF 2-3 WEEKS.

**NOTES:**

- SOD SHOULD BE MACHINE CUT AND CONTAIN 2" OF SOIL, NOT INCLUDING SHOOTS OR THATCH.
- SOD SHOULD BE CUT TO THE DESIRED SIZE WITHIN 1/2" TO 1" UNLESS OTHERWISE SPECIFIED.
- SOD SHOULD BE CUT AND INSTALLED WITHIN 30 HOURS OF DIGGING.
- WOOD PLAYING WHEN SUBJECT TO TIGHT HEAVY OR HOT WEATHER IF IRRIGATION IS NOT AVAILABLE.
- THE SOD TYPE SHOULD BE SHOWN ON THE PLANS OR INSTALLED ACCORDING TO THE TABLE PROVIDED BELOW FOR YOUR RESOURCE AREA.

**MAINTENANCE NOTES:**

- Keep sod moist until it is fully rooted.
- Keep to a height of 2 to 3' for sod in wet-rotted, frequently in 2 to 3 weeks. Do not remove more than 1/2" of the sod blade in any mowing.
- Permanent, use turf areas require yearly fertilization. Fertilize warm-season grass in late spring to early summer; fertilize cool-season grass in early fall and late winter. Fertilize at rates recommended by a soil test.



### CEP CONSTRUCTION EXIT PAD DETAIL

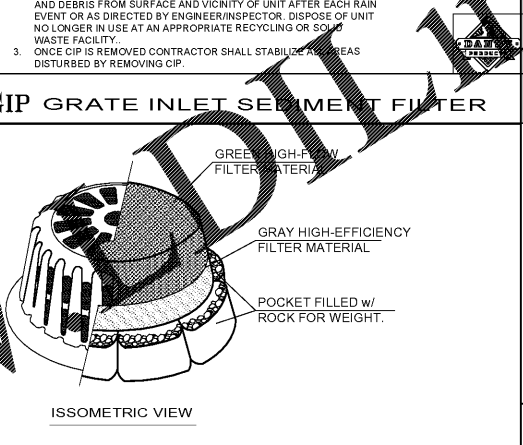
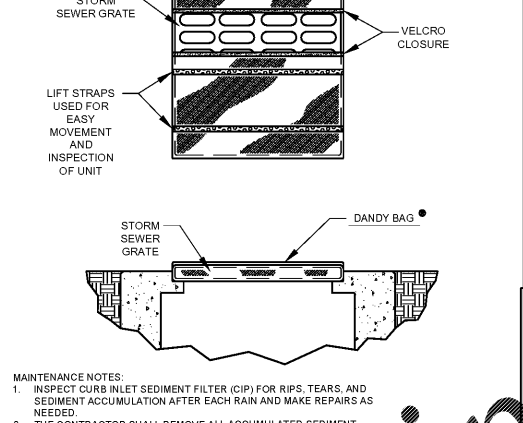
**Construction Entrance Notes:**

- A stabilized pad of crushed stone shall be located where traffic will be entering or leaving a construction site to a public street.
- Stones to No. 57 filter stone.
- The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public streets or existing pavement. This may require periodic top dressing with additional stone as conditions demand and/or air and/or clean out of any measures used to trap sediment.
- All sediment spilled, dropped, washed or tracked onto public streets must be removed immediately.
- When necessary wheels must be cleaned to remove sediment prior to entering a public street. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment basin.
- Filter fabric shall be Miraf 500 or approved equal.

**Construction Exit Pad Detail:**

**NOTES:**

- NO MORE THAN 50' FROM PRIMARY CONSTRUCTION ENTRANCE
- IN PLAIN SIGHT
- INFORMATION NEEDED:
  - NAME OF DEVELOPER, OWNER OF PROPERTY, GRADING CONTRACTOR, 24 HOUR NOTICE PERSON, AND ANY OTHER PERSON OR PARTY DIRECTLY CONNECTED TO THE LAND DISTURBANCE ACTIVITY
  - PHONE, FAX AND CELL NUMBERS AND ADDRESSES OF PARTIES INVOLVED
  - LAND DISTURBANCE PERMIT TO BE POSTED ON THE SIGN
  - SPACE SHOULD BE AVAILABLE FOR INSPECTOR POSTINGS
  - PLASTIC OVERLAY SHEET TO PROTECT POSTINGS FROM WATER
  - TO BE CHECKED DAILY FOR UPDATES AND POSTINGS



### WATTLE SEDIMENTATION BARRIER

**Construction Sequence for Dome Frame & Cover:**

- EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
- PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
- SLIDE THE FILTER MATERIAL OVER THE FRAME.
- FILL THE COVER POCKETS WITH SOIL, #67 GRAVEL OR EQUIVALENT. THE COVER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE FRAME AND INLET STRUCTURE.
- BACK FILL AROUND THE FRAME AND COVER ASSEMBLY IS NOT REQUIRED TO BE COMPLETE. INSTALLATION, HOWEVER, BACKFILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.

**MAINTENANCE NOTES:**

- INLET PROTECTION DEVICES MUST BE INSPECTED FOR SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN. REMOVE TRAPPED SEDIMENT WHEN DEPTH OF SEDIMENT IS HALF THE FABRIC HEIGHT.
- REMOVAL OF SEDIMENT ACCUMULATED IN OR ADJACENT TO A STORM DRAIN INLET MUST BEGIN IMMEDIATELY UPON DISCOVERY, WITH COMPLETION OF THE ACTIVITY OCCURRING NO LATER THAN THE END OF THE FOLLOWING BUSINESS DAY.
- INLET PROTECTION DEVICES SHALL BE INSPECTED FOR UNINTENDED BYPASS OR IMPROPER FLOW-RATES THAT MAY CAUSE DOWNSTREAM FLOODING.
- CONTACT THE CEC FOR ALTERNATE INLET PROTECTION IF THE DESIGNED PROTECTION MAY IMPACT DOWNSTREAM Bmps, ADJACENT SLOPES, ETC., DUE TO PONDING ISSUES. ENSURE THAT NO UNDERMINING OF INLET PROTECTION DEVICES HAS OCCURRED.
- INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.

**INSTALLATION:**

- BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2'-3" (61-76 CM) DEEP X 9" (22.9 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UPSLOPE FROM THE ANCHOR TRENCH.
- PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPSLOPE SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
- SECURE THE WATTLE WITH 18-24" (45.7-61 CM) STAKES EVERY 3'-4" (0.9-1.2 M) AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" (5.7-7.6 CM) OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE.

### WATTLE SEDIMENTATION BARRIER

**Plan and Section Views:**

**PLAN**

**SECTION**

30" WATTLE

3" STAKE TYP.

3'-4"

1.5' MIN STAKE DEPTH

3" MAXIMUM STAKE SPACING

**NOTE:** INSPECT AFTER EACH RAINFALL AND REMOVE ANY SEDIMENT DEPOSIT

NO.	REVISIONS DESCRIPTION	DATE
1	REVISED PER OWNER	3-14-19

**CBMP DETAILS**

**O'REILLY AUTO PARTS**  
County Line Rd.  
Madison, Alabama

**AFFILIATED DEVELOPMENT GROUP**  
Birmingham, AL

DATE: 12-08-18  
SCALE: 1"=50'

DESIGNED BY: K-Shaber  
CHECKED BY: K-Shaber

**GONZALEZ - STRENGTH & ASSOCIATES, INC.**  
CIVIL ENGINEERING, LAND SURVEYING, PLANNING, TRAFFIC & TRANSPORTATION

2176 PARKWAY LAKE DRIVE  
HOOPER, ALABAMA 35244  
PHONE: (205) 942-2486  
FAX: (205) 942-3033  
www.Gonzalez-Strength.com

Copyright 2018

**MARK R. GONZALEZ**  
REGISTERED PROFESSIONAL ENGINEER  
No. 15958  
STATE OF ALABAMA

DWG NO. C4A-R1  
PROJECT 18-0420