RELEASED FOR CONSTRUCTION - 12/05/11

Georgia Department of Transportation ESPCP General Notes
Updated: August 24, 2011
(Sheet 2 of 5)

READY MIX CHUTE WASH-DOWN

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of portland cement concrete is prohibited on this site.

In accordance with standard Specification 107 - Legal Regulations and Responsibility to the Public, only the discharge "chute" utilized in portland cement concrete may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of the travelled way, including shoulders, for a wash-down pit. The pit shall be large enough to store all wash-down water without overtopping. Immediately after the wash-down operations are completed and after the wash-down water has soaked into the ground, the pit shall be filled in, and the ground above it shall be graded to match the elevation of the surrounding areas. Alternate wash-down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash down water from entering streams and rivers. Never dispose of wash-down water down a storm drain. Establish a wash-down pit that includes the following: (1) a location away from any storm drain, stream or river, (2) access to the vehicle being used for wash down, (3) sufficient volume for wash-down water, and (4) permission to use the area for wash down.

On sites where permission or access to excavate a wash-down pit is unavailable, the Contractor may have to wash-down into a sealable 55-gallon drum or other suitable container and then transport the container to a proper disposal site. For additional information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-down".

STREAM BUFFER ENCROACHMENT
Stream Buffers are impacted by this project.

The Contractor is not authorized to enter into stream buffers, except as described in the table below:

| Name or Number of Stream or other Water Body Type | Location of Buffered Streams and State Waters ** | | | Stream Type (Warm/Cold Water) * | Buffer Impacted? (Yes/No) | Buffer Variance Required? (Yes/No) |
|---|---|---|---|---|---|---|
| | Stream Alignment | Begin Station and Offset | End Station and Offset | | | |
| STREAM 1 LOCATION 1 | I-20 EASTBOUND | 1145+18, 235' LT | 1150+54, 405' LT | Warm | NO | NO |
| STREAM 1 LOCATION 2 | I-20 EASTBOUND | 1153+02, 183' LT | 1159+97, 198' RT | Warm | NO | NO |
| STREAM 1 LOCATION 3 | I-20 EB CD | 66+14, 110' RT | 66+28, 130' RT | Warm | NO | NO |
| STREAM 2 (COBBS CREEK) | I-20 EASTBOUND | 1174+34, 226' RT | 1174+93, 227' RT | Warm | NO | NO |
| STREAM 3 (FOWLER BRANCH) | I-20 EASTBOUND | N/A-NOT IN LIMITS | N/A-NOT IN LIMITS | Warm | NO | NO |
| STREAM 4 | I-20 EASTBOUND | 1210+05, 169' LT | 1211+03, 140' RT | Warm | NO | NO |
| WETLAND 5 | I-20 EASTBOUND | 1210+52, 236' RT | 1211+82, 224' RT | Warm | NO | NO |
| TRIBUTARY TO STREAM 3 | I-20 EASTBOUND | 1222+20, 205' LT | 1222+53, 205' LT | Warm | NO | NO |
| STREAM 6 | I-20 EASTBOUND | 1263+90, 81' RT | 1264+15, 98' RT | Warm | NO | NO |
| STREAM 7 | I-20 EASTBOUND | 1270+90, 130' RT | 1271+38, 130' RT | Warm | YES | NO |
| INTERMITTENT TRIBUTARY TO STREAM 8 | I-20 EASTBOUND | 1291+69, 96' LT | 1302+41, 155' LT | Warm | NO | NO |
| STREAM 8 (SNAPFINGER CREEK) | I-20 EASTBOUND | 1302+87, 130' RT | 1303+50, 102' RT | Warm | NO | NO |
| STREAM 9 | I-20 EASTBOUND | 1322+95, 153' LT | 1323+72, 122' RT | Warm | NO | NO |
| STREAM 10 (PANTHERS BRANCH) | I-20 EASTBOUND | 1357+79, 130' RT | 1359+78, 123' LT | Warm | NO | NO |

Construction activities within the stream buffer consist of culvert reconstruction, minor grading operations required for slope reconstruction, guardrail installation, and base and paving operations.

*Warm water streams have a 25-foot minimum buffer as measured from the wrested vegetation.
Cold Water streams have a 50-foot buffer as measured from the wrested vegetation.
** Locations are approximate, a detailed location of stream buffers and authorized work areas are shown on the individual BMP sheets.

VEGETATION AND PLANTING SCHEDULE

ALL TEMPORARY AND PERMANENT VEGETATIVE PRACTICES INCLUDING PLANT SPECIES, PLANTING DATES, SEEDING FERTILIZER, LIME AND MULCHING RATES FOR THIS PROJECT CAN BE FOUND IN SECTION 700 OF THE CURRENT EDITION OF THE DEPARTMENT'S SPECIFICATIONS AND OTHER APPLICABLE CONTRACT DOCUMENTS, SPECIAL PROVISIONS, OR LANDSCAPING PLANS.

THE SEEDING TABLE BELOW SHOULD BE USED IN DETERMINING GRASS SPECIES DEPENDENT ON PLANTING DATES. DEKALB COUNTY IS IN PLANTING ZONE 1.

APPLY FERTILIZER AS FOLLOWS:

AGRICULTURAL LIME-UNIFORMLY SPREAD AGRICULTURAL LIME ON THE GROUND AT APPROXIMATE RATE DETERMINED BY THE LABORATORY SOIL TEST.

FERTILIZER MIXED GRADE-UNIFORMERLY SPREAD THE FERTILIZER SELECTED OVER THE GROUND AT APPROXIMATELY 1,200 LBS/ACRE. IF USING HIGHER ANALYSIS FERTILIZER WITH HYDROSEEDING, APPLY IT AT THE SAME RATE PER ACRE AS THE STANDARD FERTILIZER.

SELECT FERTILIZER MIXED GRADE SUCH AS 10-10-10, 6-12-12, 5-10-15, OR OTHER ANALYSIS WITHIN THE FOLLOWING LIMITS:
NITROGEN 5 TO 10 PERCENT
PHOSPHORUS 10 TO 15 PERCENT
POTASSIUM 10 TO 15 PERCENT
IF USING MIXED GRADE FERTILIZER FOR HYDROSEEDING, ENSURE IT HAS THE FOLLOWING ANAYSIS:
NITROGEN 5 TO 19 PERCENT
PHOSPHORUS 10 TO 19 PERCENT
POTASSIUM 10 TO 19 PERCENT

SEEDING TABLE

| PLANTING ZONES | PLANTING DATES | POUNDS (KG) OF SEED PER ACRE (HECTACRE) | | | | | | | | | REQUIRED PERMANENT PLANTING |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RYE GRASS MILLET CEREAL GRASS (OATS) | COMMON BERMUDA GRASS (HULLED) | COMMON BERMUDA GRASS (UNHULLED) | TALL FESCUE | WEEPING LOVE GRASS | WHITE OR CRIMSON CLOVER | COMMON VETCH | SCARIFIED INTERSTATE LESPEDEZA | UNSCARIFIED INTERSTATE LESPEDEZA | |
| 1 | MARCH 1 - MAY 15 | | 10 (11) | 10 (11) | 50 (56) | | | | | | COMMON BERMUDA GRASS |
| 1 | MAY 1 - JULY 31 | | 10 (11) | 10 (11) | | | | | | | |
| 1 | AUGUST 1 - FEBRUARY 28 | 15 (17) | | | | | | | | | |
| 1 | NOVEMBER 15 - JANUARY 31 | | | | | | 6 (7) | | | | |
| 2, 3, 4 | FEBRUARY 25 - AUGUST 31 | | 10 (11) | 10 (11) | | | | | | | |
| 2, 3, 4 | SEPTEMBER 1 - FEBRUARY 14 | 15 (17) | | | | | | | | | COMMON BERMUDA GRASS |
| 2, 3, 4 | NOVEMBER 15 - JANUARY 31 | | | | | | 6 (7) | | | | |

| | PLANT THESE COMBINATIONS ON BACK SLOPES, FILL SLOPES AND AREAS WHICH WILL NOT BE SUBJECT TO FREQUENT MOWING | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1, 2 | MARCH 1 - JULY 31 | | | | | 4 (5) | | | 50 (56) | | | INTERSTATE LESPEDEZA OF CROWN VETCH |
| 1, 2 | AUGUST 1 - FEBRUARY 28 | | | | 30 (34) | | | 15 (17) | | 75 (84) | | |
| 3, 4 | AUGUST 15 - AUGUST 31 | | | | | 4 (5) | | | 50 (56) | | | INTERSTATE LESPEDEZA |
| 3, 4 | SEPTEMBER 1 - FEBRUARY 14 | 50 (56) | | | | | | | | 75 (84) | | |

EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE
CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INSTALLATION OF CONSTRUCTION EXIT, PERIMETER SILT FENCE & TREE PROTECTION FENCE | ■ | ■ | | | | | | | | | | | | | | | | | |
| CLEARING & GRUBBING | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | |
| ROUGH GRADING & DRAINAGE | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | |
| INSTALLATION OF SOUND WALL | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | |
| INSTALL INTERMEDIATE EROSION MEASURES | | | | | | | | | ■ | ■ | | | | | | | | | |
| BASE AND PAVEMENT | | | | | | | | | | | ■ | ■ | ■ | | | | | | |
| FINAL GRADING | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| FINAL GRADE & GRASSING | | | | | | | | | | | | | | | | ■ | ■ | ■ | |
| REMOVE TEMPORARY EROSION MEASURES AND TREE PROTECTION FENCING | | | | | | | | | | | | | | | | | | | ■ |

The Erosion/Sedimentation Control Operation Time Schedule begins January of 2012 and the completion date is July 31, 2013.

MULCHING SCHEDULE

| MULCHING MATERIAL | RATE/ACRE |
|---|---|
| DRY STRAW OR HAY | 2.5 TONS |
| WOOD WASTE, CHIPS | 6 TO 9 TONS |
| SAWDUST, OR BARK | (2 TO 3" DEEP) |

MONITORING GENERAL NOTES:
The total site size is 92 acres. Representative sampling may be utilized on this project. The characteristics of the individual watersheds along the project corridor have been carefully evaluated and compared on the basis of drainage characteristics, watershed size, land disturbance and earthwork. After evaluation of these items as presented in the projects drainage area maps, hydrology and hydraulic studies, construction plans and erosion sedimentation and pollution control plans, it has been determined that the increase in turbidity at the specified locations will be representative of the increase in turbidity for all waters leaving the site. Approved primary and alternate representative monitoring sites are identified in the table below.

| Monitored Feature | Primary or Alternate Feature | Location (station and offset) | Name of Receiving Water | Applicable Construction Stage for Monitoring | Sampling Type (outfall or receiving water) | Drainage Area for the receiving water ($mi^2$) | Disturbed Area (acres) | Warm or Cold water Stream | Appendix B NTU Value (outfall Monitoring Only) | Allowable NTU Increase (for Receiving Water) | Location Description |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 Up | Primary | 1174+98, 200' RT | Cobbs Creek | All | Receiving Water | 0.04 | 8.4 | Warm | N/A | 25 | Upstream at existing culvert |
| 1 Dn | Primary | 1174+58, 226' RT | Cobbs Creek | All | Receiving Water | 0.04 | 10.5 | Warm | N/A | 25 | Downstream |
| 2 Up | Alternate | 1302+35, 170' LT | Snapfinger Creek | All | Receiving Water | 31.0 | 0.0 | Warm | N/A | 25 | Upstream |
| 2 Dn | Alternate | 1303+35, 130' RT | Snapfinger Creek | All | Receiving Water | 31.0 | 5.9 | Warm | N/A | 25 | Downstream |
| 3 Up | Alternate | 1359+43, 126' LT | Panthers Branch | All | Receiving Water | 0.02 | 0.0 | Warm | N/A | 25 | Upstream at existing culvert |
| 3 Dn | Alternate | 1358+06, 130' RT | Panthers Branch | All | Receiving Water | 0.02 | 9.6 | Warm | N/A | 25 | Downstream |

The primary site specified should be used as the initial sampling location. The alternate sampling sites may be used if additional sampling is required and/or if the primary sampling site is no longer located within the active phase of construction.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
ESPC GENERAL NOTES

DRAWING No. 51-002