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DUST CONTROL ON DISTURBED AREAS

DEFINITION

CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS AND DEMOLITION SITES.

PURPOSE

TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES AND REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE, OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

CONDITIONS

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

METHODS AND MATERIALS

- A. TEMPORARY METHODS
MULCHES: SEE STANDARD DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL...
SPRAY-ON ADHESIVES: THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS)...
TILLAGE: THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE...
BARRIERS: SOLID BARRIERS, SNOWFENCES, BURLAP FENCES, CRATE WALL, BALES OF HAY...
PERMANENT METHODS
PERMANENT VEGETATION: SEE STANDARD DS3 - DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)...
TOPSOILING: THIS ENTAILS COVERING THE SURFACE WITH LESS EROSION SOIL MATERIAL...
STONE: COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

Table with 4 columns: ADHESIVE, WATER DILUTION, TYPE OF NOZZLE, APPLICATION RATE (Gallons/Acre). Rows include ANIONIC ASPHALT EMULSION, LATEX EMULSION, RESIN-IN-WATER EMULSION.

EROSION CONTROL NOTES:

- 1. THE CONTRACTOR SHALL MINIMIZE THE AREAS TO BE DISTURBED SIMULTANEOUSLY.
2. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.
3. THE CONTRACTOR SHALL VERIFY WITH ENGINEER THE NOTICE OF INTENT HAS BEEN SUBMITTED TO EPD PRIOR TO CONSTRUCTION.
4. TREE PROTECTION FENCING SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY...
5. AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL...
6. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
7. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT...
8. THE CONSTRUCTION AREA SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY...
9. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES...
10. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
11. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS...
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF ALL SLOPES UNDER CONSTRUCTION...
13. CUT AND FILL SLOPES ARE NOT TO EXCEED 2H:1V.
14. ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS, SHALL BE STABILIZED WITH SOD. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
15. TYPE "A" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCKPILE AREAS.
16. CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.
17. ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
18. ALL GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
19. ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
20. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
21. UPON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATE OF OCCUPANCY, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.

Ds2

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

DEFINITION

THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDLINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDED AREAS.

PURPOSE

- TO REDUCE RUNOFF AND SEDIMENT DAMAGE OF DOWNSTREAM RESOURCES
• TO PROTECT THE SOIL SURFACE FROM EROSION
• TO IMPROVE WILDLIFE HABITAT
• TO IMPROVE AESTHETICS
• TO IMPROVE TILTH, INFILTRATION AND AERATION AS WELL AS ORGANIC MATTER FOR PERMANENT PLANTINGS.

CONDITIONS

THIS PRACTICE IS APPLICABLE ON AREAS SUBJECT TO EROSION FOR UP TO SIX MONTHS OR UNTIL THE ESTABLISHMENT OF FINISHED GRADE OR PERMANENT VEGETATIVE COVER. TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ENSURE ECONOMIC AND EFFECTIVE STABILIZATION.

SPECIFICATIONS

- 1. GRADING AND SHAPING
1.1. EXCESSIVE WATER RUN-OFF MUST BE CONTROLLED BY PLANNED AND INSTALLED EROSION CONTROL PRACTICES...
2. SEEDBED PREPARATION
2.1. WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED...
3. LIME AND FERTILIZER
3.1. AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE...
4. SEEDING: SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR.
5.1. DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION.

SEEDING RATES FOR TEMPORARY SEEDING

Table with columns: SPECIES, ALONE (RATE PER 1,000 SQ.FT., RATE PER ACRE *), IN MIXTURE (RATE PER 1,000 SQ.FT., RATE PER ACRE *), PLANTING DATES ** (COASTAL AREA). Rows include Barley, Annual Lespedeza, Weeping Lovegrass, Browntop Millet, Pearl Millet, Oats, Rye, Ryegrass, Sudangrass, Triticale, Wheat.

* UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES
** SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND CONDITIONS.

CONSTRUCTION SCHEDULE table with columns: ACTIVITY, JAN 2024, FEB 2024, MAR 2024, APR 2024, MAY 2024, JUN 2024, JUL 2024, AUG 2024, SEP 2024, OCT 2024, NOV 2024, DEC 2024, JAN 2025.

NOTE: FINAL GRASSING SHALL CONSIST OF SODDING ALL DISTURBED AREAS AFTER BUILDING CONSTRUCTION IS COMPLETED... PERMANENT VEGETATIVE COVER CAN BE ESTABLISHED: BROWNTOP MILLET - JUNE THROUGH OCTOBER... UNMULCHED BERMUDA - NOVEMBER THROUGH JANUARY... HULLED BERMUDA - FEBRUARY THROUGH MAY

Ds3

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

DEFINITION

THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION.

PURPOSE

- TO PROTECT THE SOIL FROM EROSION
• TO REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS.
• TO IMPROVE WILDLIFE HABITAT AND VISUAL RESOURCES.
• TO IMPROVE AESTHETICS.

REQUIREMENT FOR REGULATORY COMPLIANCE

THIS PRACTICE SHALL BE APPLIED IMMEDIATELY TO ROUGH GRADED AREAS THAT WILL BE UNDISTURBED FOR LONGER THAN SIX MONTHS. THIS PRACTICE OR SODDING SHALL BE APPLIED TO ALL AREAS AT FINAL GRADE... PERMANENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, DAMS, AND OTHER DENUDED AREAS.

CONDITIONS

PERMANENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, DAMS, AND OTHER DENUDED AREAS.

CONSTRUCTION SPECIFICATIONS

- 1. GRADING AND SHAPING
1.1. SHAPING MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED...
2. LIME AND FERTILIZER RATES AND ANALYSIS
2.1. AGRICULTURAL LIME IS REQUIRED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE...
3. LIME AND FERTILIZER APPLICATION
3.1. WHEN HYDRAULIC SEEDING EQUIPMENT IS USED, THE INITIAL FERTILIZER SHALL BE MIXED WITH SEED, INOCULANT (IF NEEDED)...
4. PLANT SELECTION
4.1. PLANTS SHALL BE SELECTED ON THE BASIS OF SPECIES CHARACTERISTICS, SITE AND SOIL CONDITIONS...
5. SEEDBED PREPARATION
5.1. SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS USED...
6. PLANTING
6.1. HYDRAULIC SEEDING
6.2. CONVENTIONAL SEEDING
6.3. NO-TILL SEEDING
7. MULCHING
7.1. MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS...
8. IRRIGATION
8.1. IF WATER IS APPLIED, IT MUST BE AT A RATE NOT CAUSING RUNOFF AND EROSION.

SEEDING RATES FOR PERMANENT VEGETATION

Table with columns: SPECIES, ALONE (RATE PER 1,000 SQ.FT., RATE PER ACRE *), WITH OTHER PERENNIALS (RATE PER 1,000 SQ.FT., RATE PER ACRE *), PLANTING DATES ** (COASTAL AREA). Rows include Pensacola Bahia, Common Bermuda, Sericea Lespedeza, Weeping Lovegrass, Panicgrass, Sunflower 'Aztec'.

* UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.
** SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND CONDITIONS.
*** PLANT WITH TEMPORARY COVER SUCH AS WINTER ANNUALS.
**** DROUGHT TOLERANT. GROWS WELL WITH SERICEA LESPEDeza ON ROADBANKS.

FERTILIZER REQUIREMENTS

Table with columns: SPECIES, YEAR, ANALYSIS OR EQUIVALENT N-P-K, RATE, TOP DRESSING RATE. Rows include Cool season grasses, Cool season grasses and legumes, Warm season grasses, Warm season grasses and legumes.

- 1/ APPLY IN SPRING FOLLOWING SEEDING.
2/ APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.
3/ APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.



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LAND LOT 64 & 29 OF THE 11TH LAND DISTRICT CITY OF VALDOSTA LOWNDEN COUNTY STATE OF GEORGIA

REVISIONS table with columns: DATE, DESCRIPTION

SCALE: N.T.S.

DESIGNED BY: DEA

CHECKED BY: MCM

SUBMITTAL DATE: 09-28-23

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ESPC DETAILS (SHEET 2 OF 3)

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