

FINAL SITE STABILIZATION

- 1. ONCE GRADED AREAS ARE CONSTRUCTED TO FINAL GRADES, PERMANENT STABILIZATION SHALL BE ESTABLISHED.
2. THE CONTRACTOR SHALL RESTORE OFF-SITE AREAS DAMAGED BY CONSTRUCTION TO A CONDITION, EQUAL TO OR BETTER THAN THE CONDITION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. ALL EROSION CONTROL BMP'S SHALL REMAIN IN PLACE UNTIL THE SITE HAS BEEN PERMANENTLY STABILIZED.
4. ONCE THE SITE HAS REACH FINAL STABILIZATION, THE CONTRACTOR IS TO CLEAN AND REMOVE DEBRIS FROM BMP'S AND STORM WATER COLLECTION AREAS. BMP'S ARE THEN TO BE REMOVED.

MATERIALS STORED ON SITE

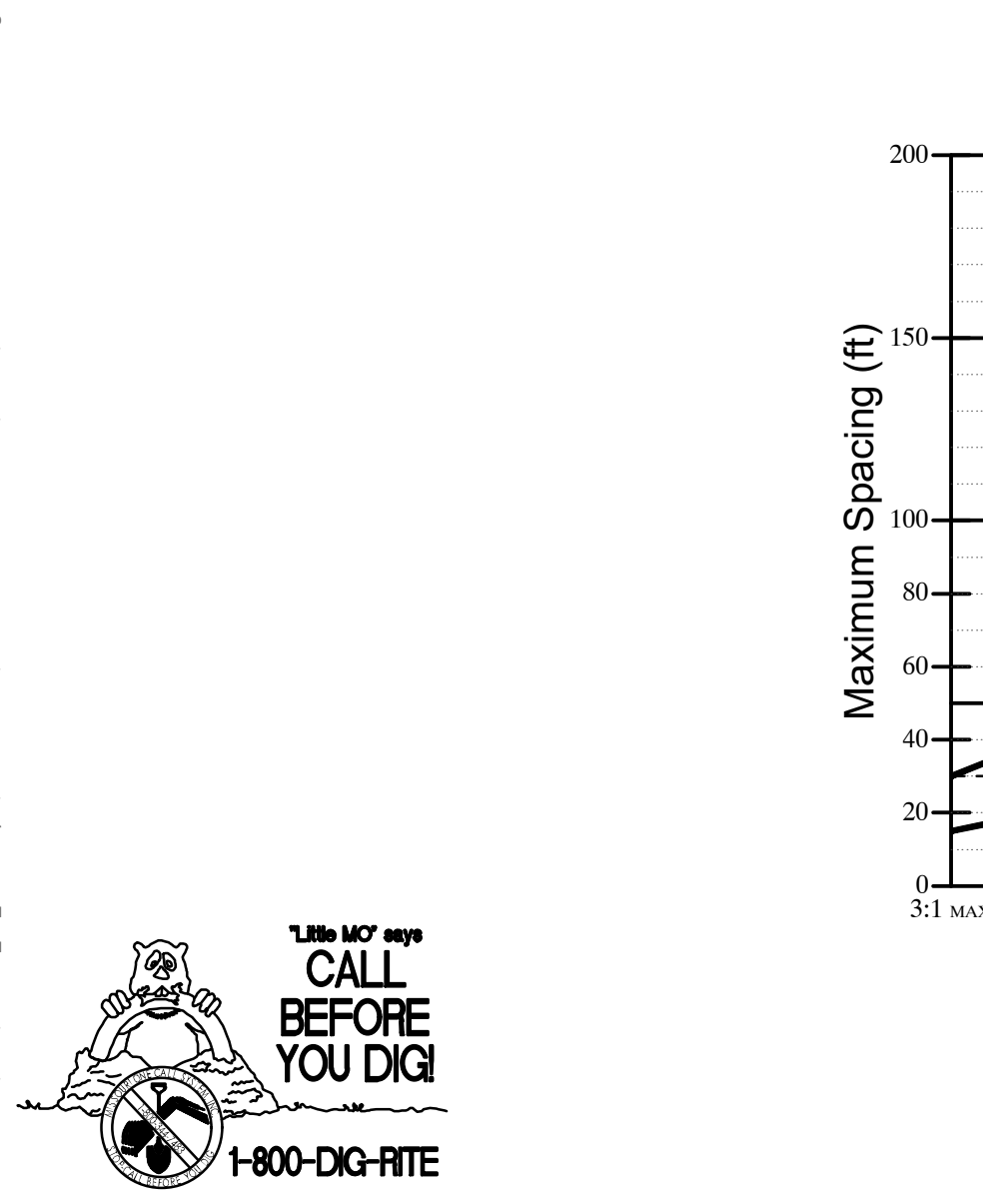
- 1. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS, IF POSSIBLE. MATERIALS SHALL BE STORED UNDER A ROOF OR OTHER ENCLOSURE.
2. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE MANUFACTURER'S LABEL. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
3. HAZARDOUS PRODUCTS SHALL BE KEPT IN RESEALABLE CONTAINERS. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED.

MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS

- 1. SILT FENCING SHALL BE INSPECTED DAILY DURING PERIODS OF RAINFALL, IMMEDIATELY AFTER EACH SIGNIFICANT RAINFALL EVENT, AND WEEKLY DURING PERIODS OF NO RAINFALL.
2. EARTHEN BERMS SHALL BE REGULARLY INSPECTED, AND INSPECTED AFTER EACH RAINFALL EVENT.
3. THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSPECTED REGULARLY, AFTER EVERY RAINFALL EVENT, AND DURING HIGH VOLUMES OF TRAFFIC.
4. DRAINAGE SWALES SHALL BE INSPECTED REGULARLY AND AFTER EVERY RAINFALL EVENT.
5. STRAW BALE BARRIERS SHALL BE INSPECTED ONCE A WEEK AND AFTER EVERY RAINFALL EVENT.
6. SELECT STOCKPILE LOCATION TO AVOID SLOPES AND NATURAL DRAINAGE WAYS.
7. INSPECT AND MAINTAIN ALL BMP'S LOCATED DOWN HILL OF AREA BEING GRADED.

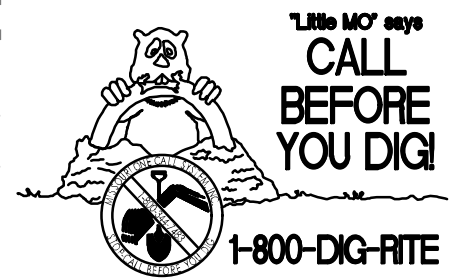
SPILL CONTROL OF POLLUTANTS

- 1. ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND SHALL RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE.
2. CONCRETE TRUCKS SHALL ONLY WASH-OUT OR DISCHARGE SURPLUS CONCRETE, OR DRUM-WASH WATER, AT DEDICATED CONCRETE TRUCK WASH-OUT AREAS.
3. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.
4. ALL ASPHALTIC SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
5. FERTILIZERS SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER.
6. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.



4 SPACING CHART FOR ESC DEVICES

UNDERGROUND UTILITIES AND OSHA SAFETY NOTE: Underground utilities and structures have been plotted from available information and therefore, their location must be considered approximate only.



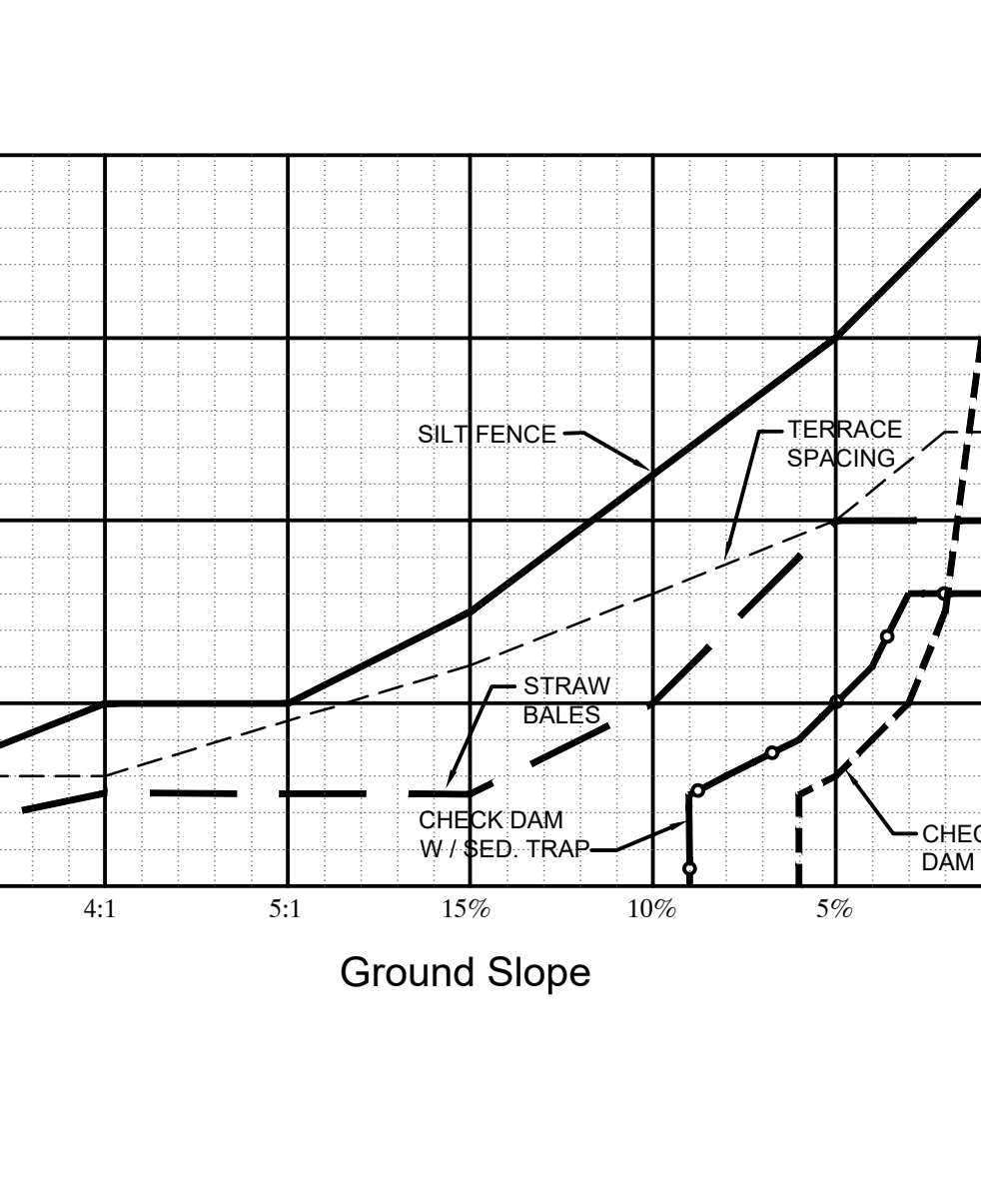
\\na01p101\civ\3D PROJECTS\2022\22142102_NP_2898-Hwy-REINFORCING\CONSTRUCTION DRAWINGS\SHEETS\C-301 EROSION CONTROL DETAILS.dwg

GENERAL EROSION AND SEDIMENTATION CONTROL NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE LAND DISTURBANCE PERMIT FOR THIS SITE PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL KEEP & MAINTAIN A COPY OF THE LAND DISTURBANCE PERMIT(S), EROSION CONTROL PLANS, AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AT THE PROJECT SITE DURING CONSTRUCTION.
3. ALL EROSION CONTROL MEASURES MUST MEET LOCAL REQUIREMENTS AND THE "PROTECTING WATER QUALITY, A FIELD GUIDE TO EROSION, SEDIMENT AND STORM WATER BEST MANAGEMENT PRACTICES FOR DEVELOPMENT SITES IN MISSOURI AND KANSAS".
4. PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITIES, EROSION AND SEDIMENT CONTROL MEASURES AND APPLICABLE BMP'S SHALL BE INSTALLED.
5. THE GENERAL CONTRACTOR SHALL HAVE ULTIMATE CONTROL OF THE SITE AND REQUIRE THAT ALL SUBCONTRACTORS, UTILITY COMPANIES, AND ANY PERSON PERFORMING LAND DISTURBING ACTIVITIES CONFORM TO THE REQUIREMENTS OF THE PERMITS ISSUED FOR THE SITE.

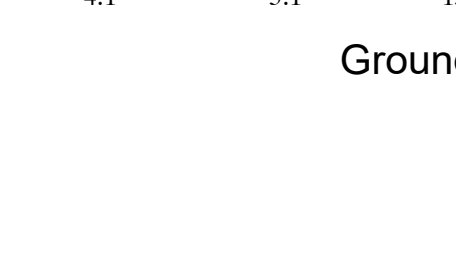
CONSTRUCTION SWPPP LOG

- 1. THE CONTRACTOR SHALL DEVELOP A CONSTRUCTION SWPPP LOG AT THE START OF CONSTRUCTION. THE CONSTRUCTION SWPPP LOG SHALL INCLUDE INSTALLATION DATES OF BMP'S, MAINTENANCE RECORDS, RAINFALL RECORDS, AND ANY ITEM THAT ADDRESSES THE MANAGEMENT OF STORM WATER POLLUTION PREVENTION MEASURES AT THE PROJECT SITE.
2. REFER TO THE SWPPP DOCUMENT/NARRATIVE FOR FORMS AND OTHER DETAILED INFORMATION REGARDING STORM WATER POLLUTION PREVENTION PRACTICES.
3. THE SWPPP LOG SHALL BE KEPT ON THE JOB SITE AND SHALL BE MADE AVAILABLE FOR REVIEW AT THE REQUEST OF APPLICABLE GOVERNING AUTHORITIES.
4. BMP'S SHALL BE INSPECTED ONCE A WEEK AND WITHIN 24 HRS OF RAIN EVENTS OF 1/4" OR GREATER.



SPACING CHART FOR ESC DEVICES

UNDERGROUND UTILITIES AND OSHA SAFETY NOTE: Underground utilities and structures have been plotted from available information and therefore, their location must be considered approximate only.



\\na01p101\civ\3D PROJECTS\2022\22142102_NP_2898-Hwy-REINFORCING\CONSTRUCTION DRAWINGS\SHEETS\C-301 EROSION CONTROL DETAILS.dwg

SILT FENCE (SF)

- 1. SILT FENCE TO BE ADJUSTED AS NECESSARY FOR CONSTRUCTION ACTIVITY.
2. UNLESS NOTED OTHERWISE, SILT FENCE SHALL BE A WOVEN GEOTEXTILE FABRIC SUCH AS MIRAFI 100X OR EQUAL.
3. REFER TO THE SILT FENCE DETAIL FOR INSTALLATION REQUIREMENTS.
4. SILT FENCES SHALL ONLY BE USED FOR STORM WATER SHEET FLOW CONDITIONS.
5. SILT FENCES SHALL FOLLOW CONTOURS AND UTILIZE "J" HOOKS TO HELP TRAP SEDIMENT.
6. SILT FENCES SHALL BE INSPECTED REGULARLY FOR RIPS, TEARS, OR DETERIORATION.

INLET PROTECTION (IP)

- 1. REFER TO THE INLET PROTECTION DETAILS FOR VARIOUS TYPES OF INLET PROTECTION. THE CONTRACTOR SHALL HAVE THE OPTION OF UTILIZING ANY TYPES SHOWN OR ACCEPTABLE ALTERNATE.
2. INLET PROTECTION DEVICES SHALL BE INSTALLED IMMEDIATELY AROUND EACH INLET ONCE INLET CONSTRUCTION IS COMPLETED.

SOD OR SEEDING, MULCHING AND FERTILIZING (SDF) (SM)

- 1. SEEDING, FERTILIZING AND MULCHING SHALL BE APPLIED AT THE RATES AND TIMES SPECIFIED PER THE MUNICIPALITY'S SPECIFICATIONS.
2. ALL TEMPORARY DIVERSION BERMS, DIVERSION DITCHES AND SOIL STOCKPILE AREAS SHALL BE SEEDDED AND MULCHED IMMEDIATELY AFTER GRADING.
3. ALL AREAS DISTURBED DURING CONSTRUCTION, WHICH WILL NOT BE PAVED, SHALL HAVE A MINIMUM OF 4" OF TOPSOIL INSTALLED.
4. GRASSSED AREAS SHALL BE EITHER SODDED OR SEEDDED AND MULCHED, REFER TO THE SITE AND LANDSCAPING PLANS FOR LOCATIONS OF EACH.
5. ALL RIGHT-OF-WAYS SHALL HAVE SOD INSTALLED.
6. SOD SHALL BE DROUGHT RESISTANT FESCUE.
7. TEMPORARY IRRIGATION MAY BE REQUIRED TO HELP ESTABLISH SODDED/SEEDDED AREAS.

CONSTRUCTION ENTRANCE (CE)

- 1. THE LOCATION OF A CONSTRUCTION ENTRANCE/EXIT HAS BEEN SHOWN ON THE EROSION CONTROL PLAN(S). THE CONTRACTOR SHALL INSTALL OR ESTABLISH A DESIGNATED CONSTRUCTION ENTRANCE/EXIT AT THE START OF CONSTRUCTION.
2. A PERMIT SIGN SHALL BE INSTALLED AT OR NEAR THE CONSTRUCTION ENTRANCE FOR POSTING RELEVANT CONSTRUCTION PERMITS FOR THE PROJECT.
3. AS PART OF THE CONSTRUCTION ENTRANCE, THE CONTRACTOR SHALL INSTALL A VEHICLE WASH DOWN AREA.
4. TRACKING IS NOT PERMISSIBLE.
5. LOCATION AND FINAL DIMENSIONS OF THE CONSTRUCTION ENTRANCE, WASH DOWN AREA AND STAGING AREAS SHALL BE ESTABLISHED BY THE GENERAL CONTRACTOR.
6. ALL CONSTRUCTION TRAFFIC LEAVING THE PROJECT SITE SHALL UTILIZE THE CONSTRUCTION ENTRANCE/EXIT.

St. Charles County Erosion & Sediment Controls Standard Drawings. SPACING CHART FOR ESC DEVICES. DATE: APRIL 2008. DRAWING: ESC-1

P-2-NP-01

EROSION CONTROL INFORMATION & REFERENCES:

- EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, 1988. SMOLEN, M.D., D.W. MILLER, L.C. WYATT, J. LICHTHARDT, AND A.L. LANIER. NORTH CAROLINA SEDIMENTATION CONTROL COMMISSION; NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES; AND DIVISION OF LAND RESOURCES LAND QUALITY SECTION, RALEIGH, NC.
• COSTS OF URBAN NONPOINT SOURCE WATER POLLUTION CONTROL MEASURES. TECHNICAL REPORT #31. 1991. SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION (SWRPC), WAUKESHA, WI.
• STORMWATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES: DEVELOPING POLLUTION PREVENTION PLANS AND BEST MANAGEMENT PRACTICES (EPA 832-R-92-005). 1992. U.S. ENVIRONMENTAL PROTECTION AGENCY (USEPA) OFFICE OF WATER, WASHINGTON, DC.
• GUIDANCE SPECIFYING MANAGEMENT MEASURES FOR SOURCES OF NONPOINT POLLUTION IN COASTAL WATERS (EPA 840-B-92-002). 1993. U.S. ENVIRONMENTAL PROTECTION AGENCY (USEPA), OFFICE OF WATER, WASHINGTON, DC.
• VIRGINIA EROSION & SEDIMENT CONTROL FIELD MANUAL, 2ND EDITION, 1995. VIRGINIA DEPARTMENT OF CONSERVATION (VDNR), DIVISION OF SOIL AND WATER CONSERVATION, RICHMOND, VA.

CONSTRUCTION SEQUENCING ACTIVITIES:

- INSTALL PROJECT SIGN & POST PERMITS
• INSTALL SILT & CONSTRUCTION FENCING
• INSTALL INLET PROTECTION TO EXISTING STRUCTURES
• INSTALL CONSTRUCTION ENTRANCE / EXIT
• INSTALL VEHICULAR WASH DOWN AREA
• BEGIN EXCAVATION & SITE DEMOLITION
• BEGIN BUILDING FOOTINGS & FOUNDATIONS
• BEGIN UTILITY TRENCHING & EXCAVATION
• INSTALL BMP'S TO NEW STORM AND DRAINAGE FACILITIES
• PARKING & DRIVE AREA PAVING
• FINISHED GRADING & LANDSCAPING
• SEEDING & SOD WORK
• REMOVAL OF EROSION CONTROL AND OTHER BMP'S

NOTES:

- 1. REFER TO THE EROSION CONTROL DETAIL SHEET & STORMWATER POLLUTION PREVENTION NARRATIVE FOR ADDITIONAL NOTES AND REQUIREMENTS.
2. THE GENERAL CONTRACTOR SHALL OBTAIN A COPY OF THE NPDES PERMIT ISSUED FOR THE SITE AND POST IT AT THE PROJECT SITE PRIOR TO ANY LAND DISTURBING ACTIVITIES.
3. CONTRACTOR SHALL INSTALL BMP'S NOTED ON THE PLANS PRIOR TO BEGINNING ANY LAND DISTURBING, DEMOLITION, OR TREE REMOVAL ACTIVITIES.
4. THE CONTRACTOR SHALL INSTALL CONSTRUCTION ENTRANCE/EXIT AND MAINTAIN THESE ENTRANCES DURING CONSTRUCTION.
5. THE JOB SITE TRAILER, DUMPSTER, FUELING AREA, STORAGE & LAY-DOWN AREA SHALL BE LOCATED BY THE GENERAL CONTRACTOR AT THE START OF CONSTRUCTION.
6. SOIL STOCKPILES AND DEMOLITION DEBRIS STOCKPILES SHALL HAVE SILT FENCES INSTALLED IF LEFT ON SITE & UNDISTURBED AT THE END OF THE WORKDAY.

ADDITIONAL CITY OF FALLON EROSION AND SEDIMENT CONTROL NOTES

- a. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA.
b. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO CONTROL EROSION AND SILTATION INCLUDING, BUT NOT LIMITED TO, STAKED STRAW BALES AND/OR SILTATION FABRIC FENCES (POSSIBLE METHODS OF CONTROL ARE DETAILED IN THE PLANS).
c. EROSION CONTROL SHALL COMMENCE WITH GRADING AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER AND/OR THE CITY OF DARDENNE PRAIRIE.
d. THE CONTRACTOR'S RESPONSIBILITIES INCLUDE ALL DESIGN AND IMPLEMENTATION AS REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT.
e. THE OWNER AND/OR THE CITY OF DARDENNE PRAIRIE MAY, AT THEIR OPTION, DIRECT THE CONTRACTOR IN THE METHODS AS DEEMED FIT TO PROTECT PROPERTY AND IMPROVEMENTS.
f. ANY DEPOSITING OF SILTS OR MUD ONTO NEW OR EXISTING PAVEMENT OR ON NEW OR EXISTING STORM SEWERS OR SWALES SHALL BE REMOVED AFTER EACH RAIN AND AFFECTED AREAS CLEANED TO THE SATISFACTION OF THE OWNER AND/OR THE CITY OF DARDENNE PRAIRIE.
g. CHECK DAMS: IT IS RECOMMENDED TO INCORPORATE TEMPORARY CHECK DAMS INTO THE SWPPP IN AREAS OF CONCENTRATED FLOWS.

Check Dam Spacing Table with columns: Ditch Slope (%), Check Dam Maximum Spacing (ft) - Check Dam Only, Check Dam with Sediment Trap.

POTENTIAL POLLUTANTS THAT MAY BE FOUND ON SITE DURING CONSTRUCTION:

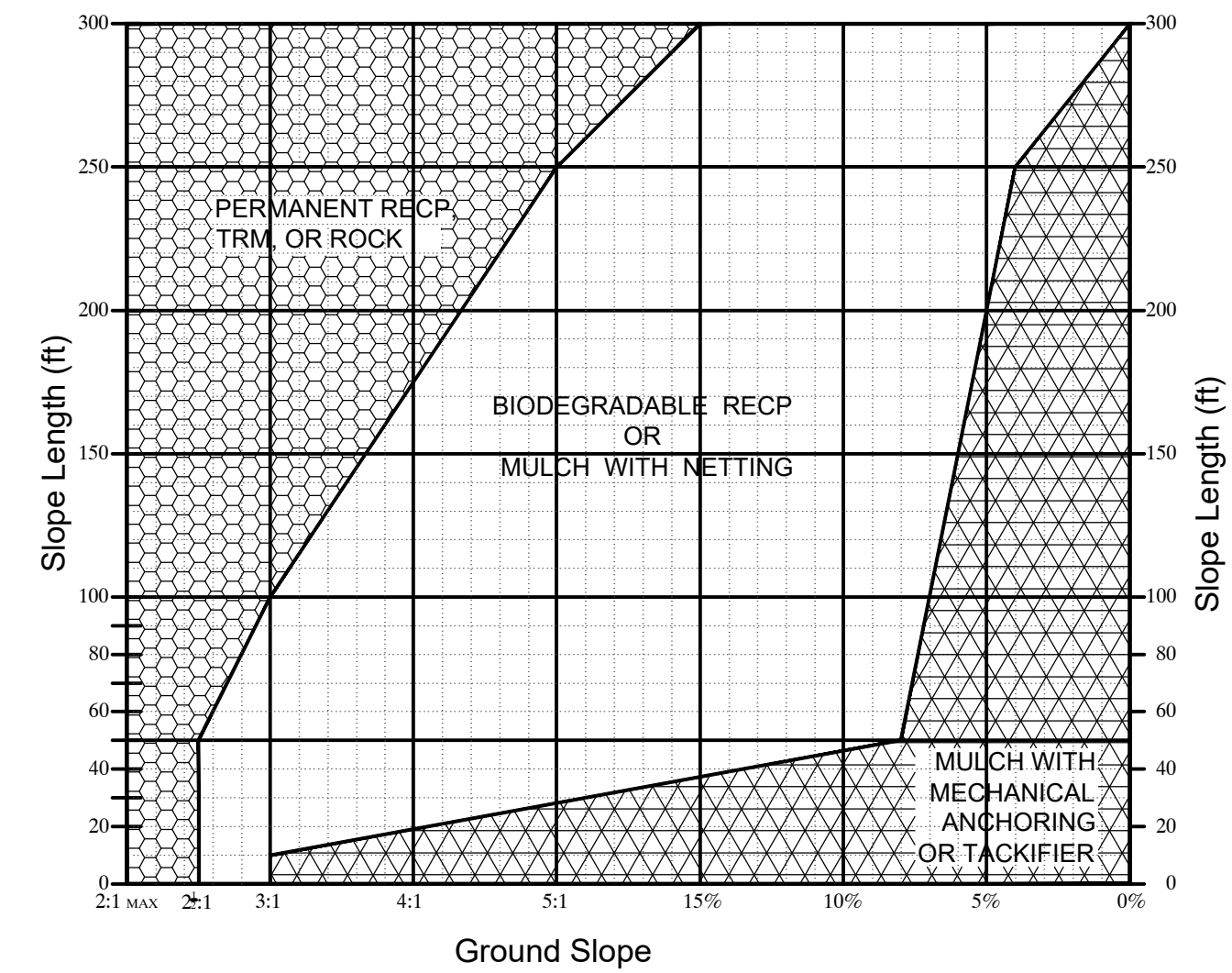
Table with 3 columns: Material Trade Name, Chemical/Physical Description, Storm Water Pollutants.

PROJECT SITE INFORMATION:

NPDES PERMIT NUMBER ISSUED FOR THE SITE: N/A
CONTRACTOR CONTACT PERSON: TBD
PHONE: TBD
SITE LOCATION: APPROXIMATELY 450 FEET SOUTH FROM THE INTERSECTION OF HIGHWAY K AND FALLON PARKWAY
LONGITUDE: 90°41'58.2"W
LATITUDE: 38°45'41.1"N

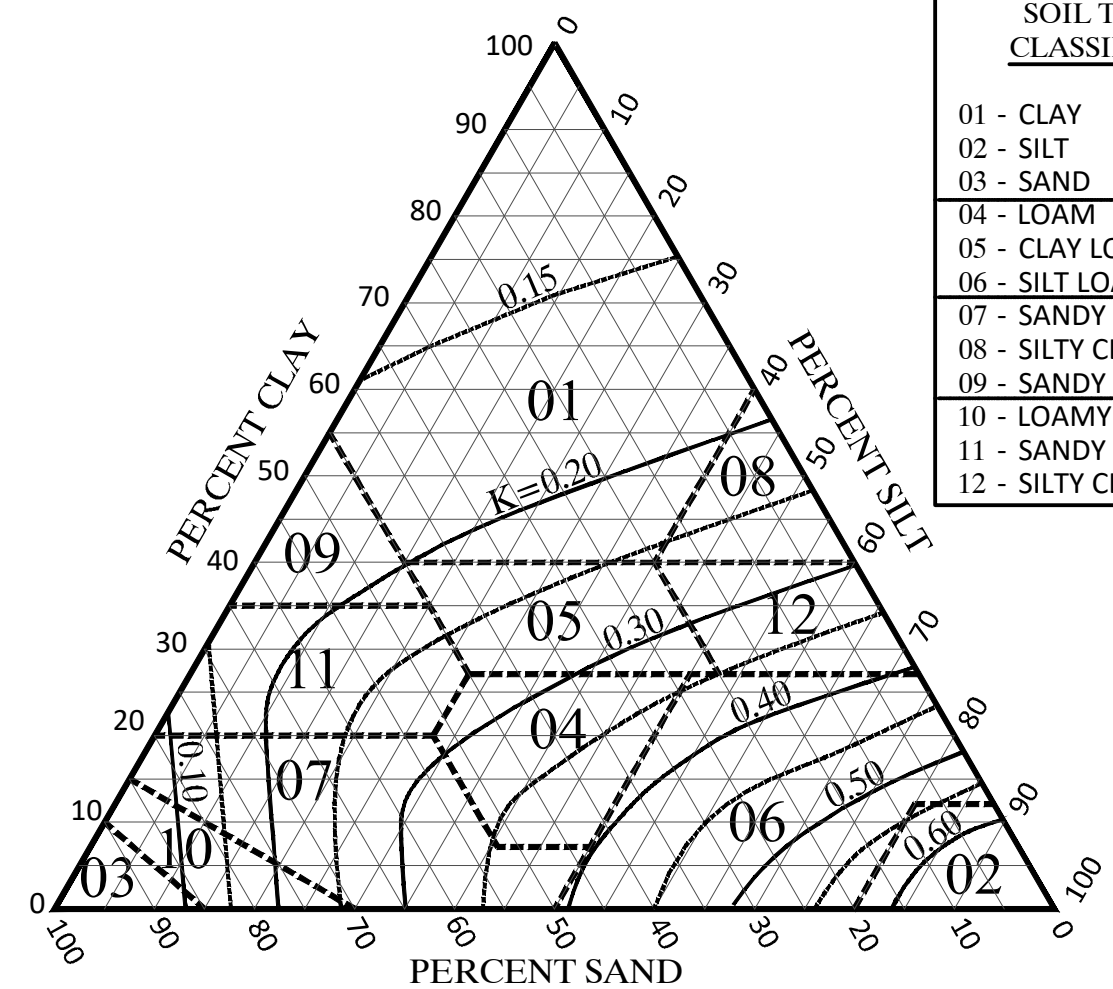
RECEIVING WATERS: XXX

EXISTING SOIL: HARVESTER-URBAN LAND COMPLEX, 2 TO 9 PERCENT SLOPES



3 SURFACE STABILIZATION CHART FOR SHEET FLOW

P-2-NP-03

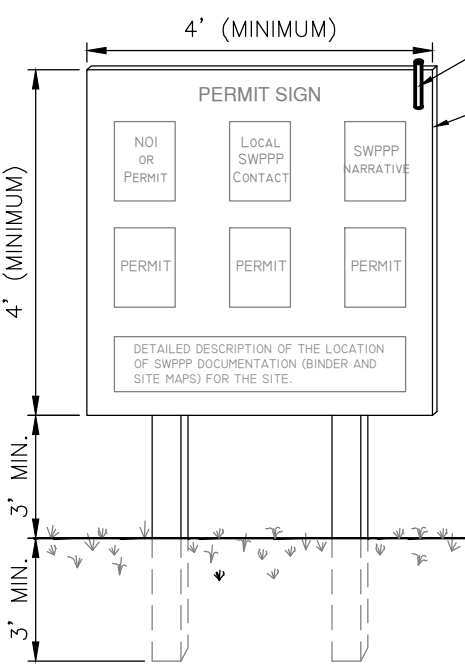


2 USDA SOIL TEXTURE CHART

P-2-NP-02

TREE PROTECTION NOTES:

- 1. THE PROTECTION AREA AROUND TREES SHALL INCLUDE ALL LAND WITHIN THE CANOPY DRIP LINE.
2. CONSTRUCTION SITE ACTIVITIES SUCH AS PARKING, MATERIAL STORAGE, SOIL STOCK PILING, AND CONCRETE WASH-OUT SHALL NOT BE PERMITTED WITHIN TREE PROTECTION AREAS.
3. TREE PROTECTION AREAS SHALL BE CLEARLY IDENTIFIED PRIOR TO ANY LAND DISTURBANCE.
4. SIGNS SHALL BE USED TO DESIGNATE TREE PROTECTION AREAS.



1 PERMIT SIGN DETAIL

P-2-NP-99

ALL PROJECT SITES SHALL COMPLY WITH REQUIREMENTS OF THE "CLEAN WATER ACT" ESTABLISHED BY THE US ENVIRONMENTAL PROTECTION AGENCY.

THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PROGRAM REQUIRES PERMITS TO BE ISSUED BY REGULATORY AGENCIES WHEN PROJECT SITES DISTURB 1 ACRE OR MORE.



ENGINEERS AUTHENTICATION: The responsibility for professional engineering is a liability on this project is hereby limited to the set of plans authorized by the seal, signature, and date hereunder attached.

St. Charles County Erosion & Sediment Controls Standard Drawings. SURFACE STABILIZATION CHART FOR SHEET FLOW. DATE: MAY 2005. DRAWING: ESC-3

RCP-N LLC
2892 HIGHWAY K
OFALLON, MO 63366
RCP-N LLC
660 OFFICE PARKWAY
CREVE COEUR, MO 63141

St. Charles County Erosion & Sediment Controls Standard Drawings. USDA SOIL TEXTURE CHART. DATE: MAY 2005. DRAWING: ESC-2

Revision table with columns: #, Revision Date, Description of Changes, Sheet Number. Includes drawing title C-301 and project information.

Project No. 2214120
Drawn By D. STOSZ
Checked By S. FELDT

NOT RELEASED FOR CONSTRUCTION