Storm Water Pollution Prevention Plan

For

Monticello 4th Plat

Lee's Summit, Jackson County, Missouri

Prepared By:

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May 20, 2020

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Project Description

Project Location

The site is located off NE Jamestown Road, Section 4 and 5, Township 48 North, Range 31 West in Lee's Summit, Jackson County, Missouri. The construction site consists of 19.51. This proposed site is being developed by Silverstone Development, PO Box 346, Lee's Summit, Jackson County, Missouri. Below in Figure 1 is a vicinity map indicating the location of Monticello and surrounding future development area.

Figure 1: Monticello 4th Plat

Construction Type

The project will consist of 45 residential lots and the associated roadways and site utilities

Existing Site Conditions

The existing site generally drains from South to North and into an existing unnamed tributary that drains into Blue Springs Lake that serves as a regional detention facility for the watershed

Timing Schedule

Clearing and excavating operations are expected to start July 2020. Completion of the project is expected by December 2020

Areas

The disturbed area for the site is approximately 19.51 acres.

Runoff Coefficient

Existing area is open space a run-off coefficient of C = 0.30. The run-off coefficient for the project is estimated to be 0.51. All disturbed areas not containing parking lot will have a final stabilization of grass.

Receiving Waters

Surface water that does not infiltrate into the ground will drain into an unnamed tributary of Blue Springs Lake

Construction Plans

The construction plans, located in Appendix A, shows the existing and proposed grading of the site, the location of controls and the location of where stabilization is expected to occur. As the project's demands change, the site map shall be manually updated by the on-site contractor.

Storm Water Management Controls

Erosion and Sediment Controls

Structural controls are designed to divert flows away from disturbed areas, to store flows, or to limit the discharge of pollutants from the site to the degree attainable. The site maps, located in Appendix A, show locations of each control, the size of the control, the required materials, and methods of installation and use.

Structural Practices

Silt fences will be installed along the contours within the grading area following site grading. The erosion control measures will be placed perpendicular to flow and parallel to the contours. Fabric for silt fences will be fastened to the upslope side of the fence posts in accordance with industry standards. The fabric will be trenched into the ground to a minimum of six inches and will be backfilled with tamped natural soil. Sediment trapped by silt fence will be removed when it accumulates to 1/3 the height of the silt fence. High velocity, high erosive flow is not expected on the project site due to the relatively gentle grades. In addition to the gentle grades, much of the site's southern portion will surfaced with crushed stone, thereby reducing sediment loss.

Concrete trucks will be allowed to discharge excess concrete and drum wash water on the site, in such a manner as to allow the material to flow into the excavation stockpile or into a setting basin installed for this purpose.

Prior to site excavation a temporary sedimentation basin will be constructed on the South side of the site to collect sediment from the disturbed earthen areas. The temporary sedimentation basin, approximately 40 feet by 95 feet with a depth approximately 3 feet, will be built by over digging the proposed detention facility. A standpipe will be placed inside the basin allowing decanted water to be piped directly into the unnamed tributary by means of a gravity drain pipe. A discharge pit detail can be found in Appendix B.

Stabilization Practices

Where possible, vegetated strips will be left along both edges of the construction limits to trap suspended solids before storm water leaves the site. In addition, trees and other plant material, which are not in conflict with the proposed construction, will be left in place. All disrupted areas of the site will be finish-graded and stabilized with permanent seeding as soon as the weather permits.

Stabilization controls are designed to control erosion from disturbed areas. The disturbed areas of the construction site that will not be re-disturbed for 21 days or more must initiate stabilization measures by the 14th day after the last disturbance, except as precluded by snow cover. These disturbed areas shall be landscaped with seed or hydro seed and mulched with a minimum of 2 tons of straw per acre to achieve final stabilization of the site.

Storm Water Management

As mentioned above, disturbed areas at the construction site that are not covered by crushed stone will be seeded and mulched. The intent is to return all surface areas to a condition which provides a run-off coefficient equal to or less than that which existed prior to construction. To the extent possible, final site grading will be conducted such that storm water runoff does not exceed erosive velocities of grassed surfaces (preconstruction levels).

Other Controls

At the southwest corner of the project site, an area will be designated for equipment maintenance, repair, refueling, tool trailers and equipment lay down. The fuel tank will be kept on its own spill containment with extra storage. The fuel tank will be stored on the protected side of the tool trailer allowing access by equipment and trucks. Therefore, the fuel tank will never be placed directly on the ground surface. Spill kits will be maintained in each piece of equipment on site. Any chemicals, paints, solvents, or other potentially toxic materials will be properly stored. An office trailer will be located at west side of the project site. Portable toilets will be located near the office trailer. The portable toilets will be pumped out regularly and the waste hauled off site, by a licensed independent contractor, to an approved treatment facility. A dumpster for trash and rubbish will be located at the construction site. The dumpster will be emptied regularly by a waste disposal contractor that will haul the waste to an approved landfill. Steps will be taken to minimize off-site tracking of sediments. Any sediment tracked onto roads or streets will be removed before they become distributed along the pavement.

Non-Storm Water Discharges

The following types of non-storm water discharges will occur on the site during construction:

- Groundwater pumped from excavations
- Flush water for pipe testing
- Wash water for concrete trucks

Maintenance and Inspection Procedures

Maintenance Plan

The maintenance practices that will be used to maintain erosion and sediment controls are, but not limited to the following:

- All measures and equipment will be maintained in good working order; if a repair is necessary, it will be repaired in an appropriate and timely manner.
- Identification of equipment, controls and site areas that should be inspected
- A maintenance inspection report will be made after each inspection and will stay on-site throughout the entire construction project.
- Clean silt control devices should begin when the features have lost 50% of their capacity.

Inspection Plan

The inspection practices that will be used to maintain erosion and sediment controls are, but not limited to the following:

- Inspection is required every 7 days and within 24 hours of the end of any precipitation event. The contractor shall also inspect and assure that all sediment control devices are in working condition prior to any forecasted rainfall.
- Built up sediment will be removed from silt fencing when it has reached 1/3 the height of the fence
- Silt fences will be inspected for depth of sediment, torn fabric, proper attachment to fence post, and to see that the fence posts are firmly in the ground.
- Temporary and permanent seeding will be inspected for bare spots, washouts and healthy growth.

Inspection and maintenance logs will be maintained with the SWPPP in Appendix D. _____ will be responsible for placement and maintenance of all control measures until final stabilization.

Employee Training

An employee training program will be developed and implemented to educate employees about the requirements of the SWPPP. This education program will include background on the components and goals of the SWPPP and hands-on training in erosion controls, spill prevention and response, good housekeeping, proper material handling, disposal and control of waste equipment fueling, and proper storage, washing, and inspection procedure. All employees will be trained prior to their first day on the site.

Certifications

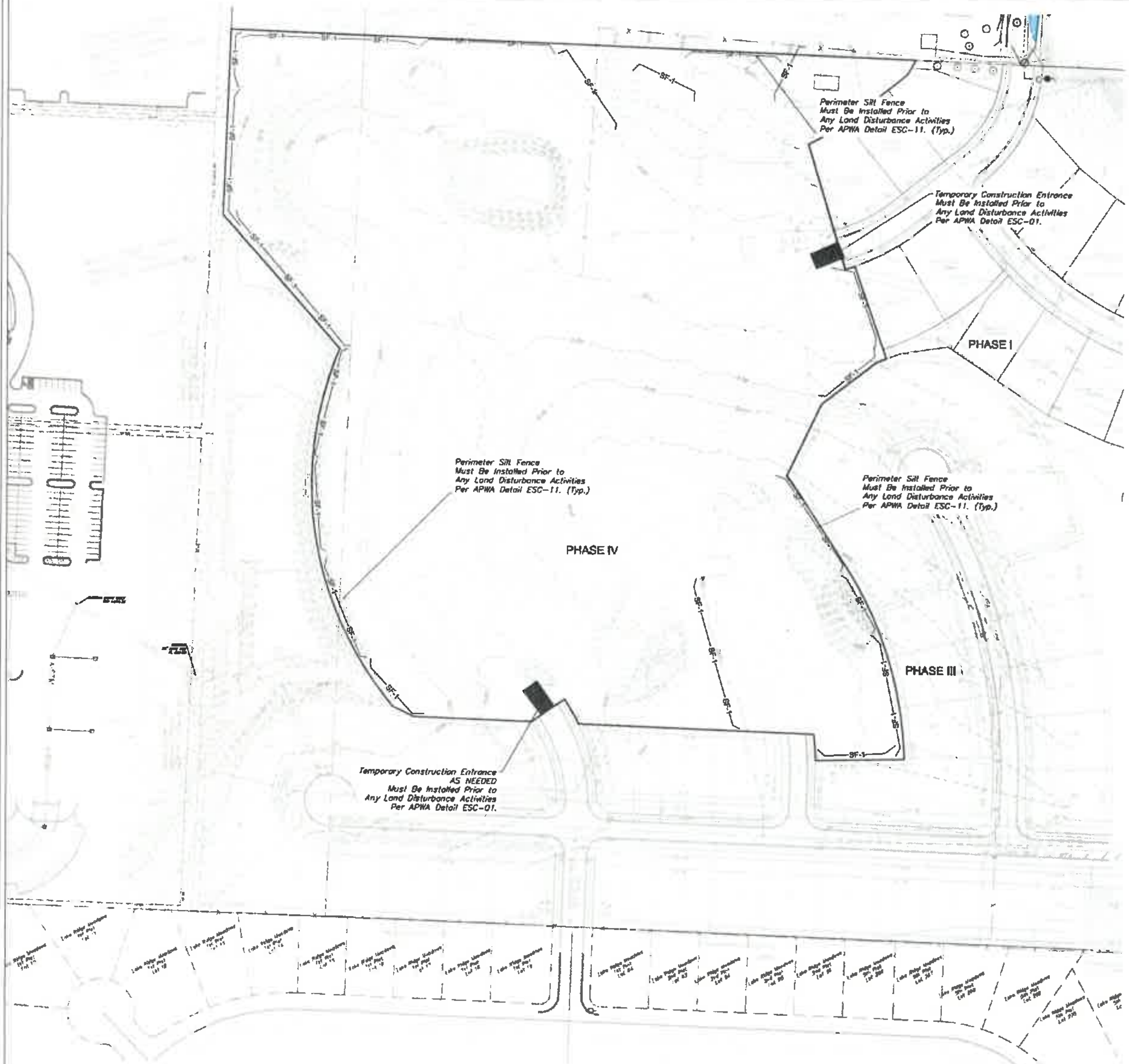
The project owner will need to sign the Project Owner Certification prior to the start of clearing and excavating. The contractors will need to complete a Contractor Certificate Form. At the discretion of the owner, other contractors and subcontractors may be asked to complete Contractor Certificate Forms. Upon signing the certificate, the contractor or sub-contractor is a co-permittee with the owner and other co-permittee contractors. All certificates must be maintained with the SWPPP. All certificates can be found in Appendix D.

Conclusion

Sediment control measures shall be removed once 70% of the permanent cover is established over 100% of the tributary area. Within 30 days after final stabilization of the project site the owner shall submit a Notice of Termination to the Missouri Department of Natural Resources.

The owner shall retain copies of the SWPPP, all reports required by this permit and records of all data used to complete the SWPPP and the inspection forms for at least three years from the date of final stabilization.

Appendix A – Site Drawings



North

PRE CLEARING PLAN

SCALE: 1" = 80'

NOTES: The Land Disturbance Plans indicates the Final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

SILT FENCE PROTECTION TO BE MAINTAINED BY CONTRACTOR

LEGEND

PHASE 1 SILT FENCE	——SF-1——SF-1——
PHASE 2 SILT FENCE	——SF-2——SF-2——

DURING ALL PHASES OF CONSTRUCTION, INACTIVE AREA STABILIZATION METHODS AS DESCRIBED IN APWA SECTION 5111.3 SHALL BE USED TO CONTROL EROSION AND SILTATION.

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Engineering E-1680
Surveying LS-219
Oklahoma
Engineering 6354
Nebraska
Engineering CA0071

Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

Project: Monticello
Issue Date: April 10, 2020

ESC PHASE 1 - Pre Clearing Plan
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
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KS PE 19071
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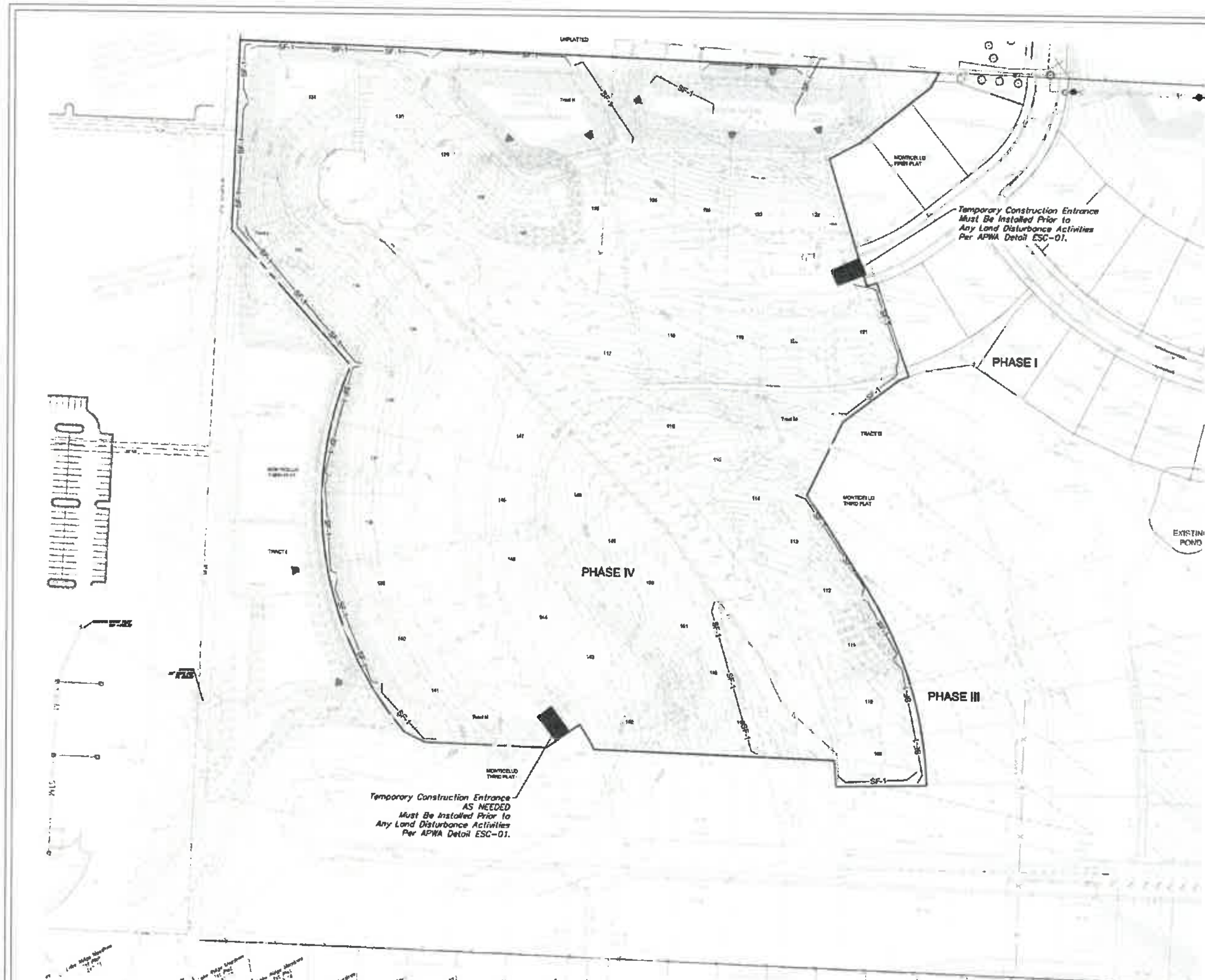
REVISIONS

⚠ REV. 3/20/2020

C.050

INITIAL AREA STABELIZATION PLAN W/ SEDIMENT BASIN

SCALE: 1" = 80'



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NOTES: The Land Disturbance Plans indicates the Final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their lease of work. These devices shall be maintained until the final devices are in place.

MAINTENANCE:

TO MAINTAIN THE EROSION AND SEDIMENT CONTROLS THE FOLLOWING PROCEDURES WILL BE PERFORMED:

SEDIMENT CAPTURE DEVICES: SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER FABRIC FENCES WHEN THE DEPTH OF ACCUMULATED SEDIMENT REACHES ABOUT ONE THIRD THE HEIGHT OF THE STRUCTURE.

STORM SEWER INLETS: ANY SEDIMENT IN THE STORM SEWER INLETS WILL BE REMOVED AND DISPOSED OF PROPERLY.

TEMPORARY CONTROLS: ALL TEMPORARY CONTROLS WILL BE REMOVED AFTER THE DISTURBED AREAS HAVE BEEN STABILIZED.

INSPECTION PROCEDURES:

INSPECTIONS WILL BE DONE BY THE RESPONSIBLE PERSON(S) AT LEAST ONCE EVERY WEEK AND WITHIN 24 HOURS EACH STORM EVENT PRODUCING ANY AMOUNT OF RAINFALL. AREAS THAT HAVE BEEN RESEEDED WILL BE INSPECTED REGULARLY AFTER SEED GERMINATION TO ENSURE COMPLETE COVERAGE OF EXPOSED AREAS. DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED SHALL HAVE ALL POLLUTION CONTROL MEASURES INSPECTED FOR PROPER INSTALLATION, OPERATION AND MAINTENANCE. LOCATIONS WHERE STORM WATER LEAVES THE SITE SHALL BE INSPECTED FOR EVIDENCE OF EROSION OR SEDIMENT DEPOSITION. ANY DEFICIENCIES SHALL BE NOTED IN A REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE INSPECTION. THE PERMITTEE SHALL PROMPTLY NOTIFY THE SITE CONTRACTORS RESPONSIBLE FOR OPERATION AND MAINTENANCE OF POLLUTION CONTROL DEVICES OF DEFICIENCIES.

IF THE EXISTING GROUND COVER IS NATURAL GRASS, DISTURBED AREAS SHALL BE TEMPORARILY SEEDED WITH WHEAT/RYE AT A RATE OF 1.5 POUNDS PER 1000 SQUARE FEET. PERMANENT SEEDING SHALL CONSIST OF 90% IN THREE EQUAL PARTS OF THIN BLADE, TURF-TYPE, TALL FESCUE AND 10% BLUEGRASS SEED AT A RATE OF 10 POUNDS PER 1000 SQUARE FEET. BOTH TEMPORARY AND PERMANENT SEEDED AREAS SHALL BE MULCHED AND WATERED TO MAINTAIN THE PROPER MOISTURE LEVEL OF THE SOIL TO ESTABLISH GRASS. NEW GRASS SHALL BE WATERED AND MAINTAINED UNTIL IT REACHES A HEIGHT OF 3 INCHES. ANY BARE AREAS SHALL BE RESEEDED.

ALL EROSION CONTROL DEVICES SHALL BE REMOVED BY GENERAL CONTRACTOR AFTER SITE STABILIZATION IS COMPLETE AND APPROVED BY ENGINEER.

THE DEVELOPER WILL DESIGNATE A QUALIFIED PERSON OR PERSONS TO PERFORM THE FOLLOWING INSPECTIONS:

STABILIZATION MEASURES: DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION WILL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. AFTER A PORTION OF THE SITE IS FINALLY STABILIZED, INSPECTIONS WILL BE CONDUCTED AT LEAST ONCE EVERY MONTH THROUGHOUT THE LIFE OF THE PROJECT. ...

... WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT AMOUNTS OF POLLUTANTS FROM ENTERING RECEIVING WATERS.

CONSTRUCTION ENTRANCE: LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE WILL BE INSPECTED FOR EVIDENCE OF OFF SITE SEDIMENT TRACKING.

A LOG OF EACH INSPECTION SHALL BE KEPT. THE INSPECTION REPORT IS TO INCLUDE THE FOLLOWING MINIMUM INFORMATION: INSPECTOR'S NAME, DATE OF INSPECTION, OBSERVATIONS RELATIVE TO THE EFFECTIVENESS OF THE POLLUTION CONTROL DEVICES, ACTIONS TAKEN OR NECESSARY TO CORRECT DEFICIENCIES, AND LISTING OF AREAS WHERE LAND DISTURBANCE OPERATIONS HAVE PERMANENTLY OR TEMPORARILY STOPPED. THE INSPECTION REPORT SHALL BE SIGNED BY THE PERMITTEE OR BY THE PERSON PERFORMING THE INSPECTION IF DULY AUTHORIZED TO DO SO.

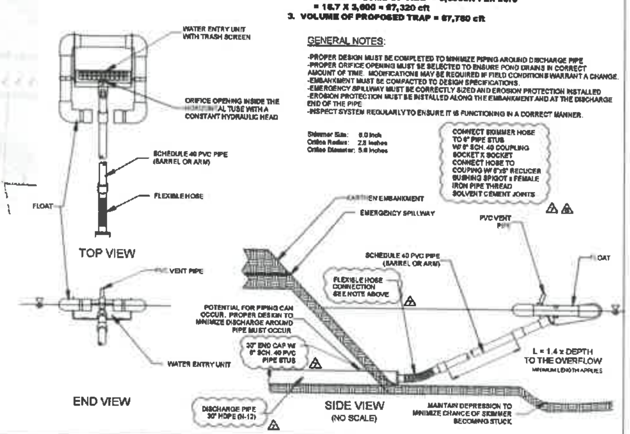
TEMPORARY SEDIMENT BASIN CALCULATIONS:

1. **TOTAL AREA DRAINING TO BASIN =18.7 ac**
2. **REQUIRED VOLUME OF TRAP = 3,600cft PER acre = 18.7 X 3,600 = 67,320 cft**
3. **VOLUME OF PROPOSED TRAP = 67,780 cft**

GENERAL NOTES:

- PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE
- PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
- EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
- EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED
- EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE
- INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.

Skimmer Size: 6.0 Inch
Orifice Radius: 2.8 Inches
Orifice Diameter: 5.6 Inches



EROSION CONTROL DESCRIPTION

1) SILT FENCE SHALL BE PLACED AT THE PERIMETER OF THE GRADING AND AT INTERMEDIATE AREAS THROUGHOUT THE SITE AS SHOWN ON THE PLAN. INLET SEDIMENT TRAPS SHALL BE PLACED SURROUNDING ALL STORM INLETS.
2) INSTALL TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON PLAN.
3) INSTALL SEDIMENT BASINS AND TRAPS AS EARLY AS POSSIBLE DURING PHASE 2 INITIAL AREA STABILIZATION MASS GRADING AS SHOWN ON PLAN. SEDIMENT BASIN TO BE INCORPORATED INTO PERMANENT DETENTION BASIN.

EROSION CONTROL PROCEDURE

1) SILT FENCE AND TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT THE PERIMETER OF THE GRADED AREAS PRIOR TO BEGINNING.
2) SEDIMENT BASINS AND TRAPS SHALL BE CLEANED OUT WHEN THE SEDIMENT CAPACITY HAS BEEN REDUCED ... 50% OF ITS ORIGINAL DESIGN VOLUME. REMOVE SEDIMENT BASINS AND TRAPS DURING PHASE 5 INACTIVE AREA STABILIZATION AS THE FINAL STEP IN MASS GRADING ACTIVITIES. THE SKIMMER SHALL REMAIN IN SERVICE UNTIL ALL AREAS CONTRIBUTING RUNOFF HAVE BEEN STABILIZED IN THE ESTABLISHMENT OF VEGETATION 70% MINIMUM.

TEMPORARY CONSTRUCTION ENTRANCE NOTES:

A) INSTALLATION

TEMPORARY CONSTRUCTION ENTRANCE NOTES (CONT'D)

B) TROUBLESHOOTING

C) INSPECTION AND MAINTENANCE

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Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

Project: Monticello
Issue Date: April 10, 2020

ESC PHASE 2 - Initial Area Stabilization Plan w/ Sediment Basin
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
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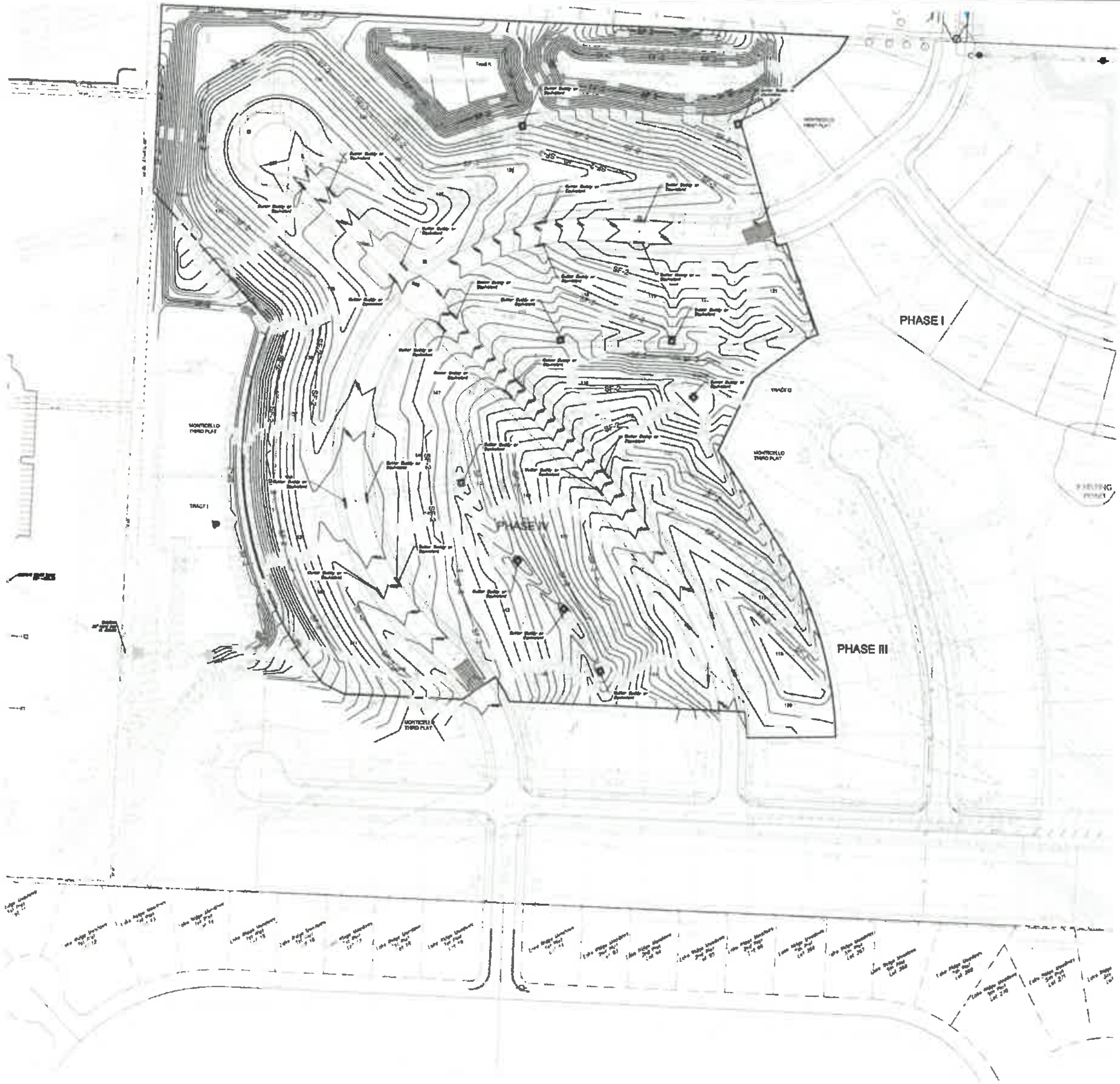
REVISIONS

REV. 5/20/2020

C.051



INACTIVE AREA STABELIZATION PLAN W/ PUBLIC IMP.

SCALE: 1" = 80'

0 40' 80' 160'

North

SILT FENCE PROTECTION
TO BE MAINTAINED BY CONTRACTOR

LEGEND

PHASE 1 SILT FENCE	——SF-1——SF-1——
PHASE 2 SILT FENCE	——SF-2——SF-2——
INLET PROTECTION GUTTER BUDDY OR EQUAL	

NOTES: The Land Disturbance Plans indicates the final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

DURING ALL PHASES OF CONSTRUCTION, INACTIVE AREA STABILIZATION METHODS AS DESCRIBED IN APWA SECTION 5111.3 SHALL BE USED TO CONTROL EROSION AND SILTATION.

MAINTENANCE:

TO MAINTAIN THE EROSION AND SEDIMENT CONTROLS THE FOLLOWING PROCEDURES WILL BE PERFORMED:

SEDIMENT CAPTURE DEVICES: SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER FABRIC FENCES WHEN THE DEPTH OF ACCUMULATED SEDIMENT REACHES ABOUT ONE THIRD THE HEIGHT OF THE STRUCTURE.

STORM SEWER INLETS: ANY SEDIMENT IN THE STORM SEWER INLETS WILL BE REMOVED AND DISPOSED OF PROPERLY.

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IF THE EXISTING GROUND COVER IS NATURAL GRASS, DISTURBED AREAS SHALL BE TEMPORARILY SEEDED WITH WHEAT/RYE AT A RATE OF 1.5 POUNDS PER 1000 SQUARE FEET. PERMANENT SEEDING SHALL CONSIST OF 90% IN THREE EQUAL PARTS OF THIN BLADE, TURF TYPE TALL FESCUE AND 10% BLUEGRASS SEED AT A RATE OF 10 POUNDS PER 1000 SQUARE FEET. BOTH TEMPORARY AND PERMANENT SEEDED AREAS SHALL BE MULCHED AND WATERED TO MAINTAIN THE PROPER MOISTURE LEVEL OF THE SOIL TO ESTABLISH GRASS. NEW GRASS SHALL BE WATERED AND MAINTAINED UNTIL IT REACHES A HEIGHT OF 3 INCHES. ANY BARE AREAS SHALL BE RESEEDED.

ALL EROSION CONTROL DEVICES SHALL BE REMOVED BY GENERAL CONTRACTOR AFTER SITE STABILIZATION IS COMPLETE AND APPROVED BY ENGINEER.

THE DEVELOPER WILL DESIGNATE A QUALIFIED PERSON OR PERSONS TO PERFORM THE FOLLOWING INSPECTIONS:

STABILIZATION MEASURES: DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION WILL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. AFTER A PORTION OF THE SITE IS FINALLY STABILIZED, INSPECTIONS WILL BE CONDUCTED AT LEAST ONCE EVERY MONTH THROUGHOUT THE LIFE OF THE PROJECT. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED FOR STABILIZATION MEASURES.

STRUCTURAL CONTROLS: FILTER FABRIC FENCES AND ALL OTHER EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN WILL BE INSPECTED REGULARLY FOR PROPER POSITIONING, ANCHORING AND EFFECTIVENESS IN TRAPPING SEDIMENTS. SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER FABRIC. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED FOR STABILIZATION MEASURES.

DISCHARGE POINTS: DISCHARGE POINTS OR LOCATIONS WILL BE INSPECTED TO DETERMINE WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT AMOUNTS OF POLLUTANTS FROM ENTERING RECEIVING WATERS.

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EROSION CONTROL DESCRIPTION:

1) SILT FENCE SHALL BE PLACE AT THE PERIMETER OF THE GRADING AND AT INTERMEDIATE AREAS THROUGHOUT THE SITE AS SHOWN ON THE PLAN. INLET SEDIMENT TRAPS SHALL BE PLACED SURROUNDING ALL STORM INLETS.

2) INSTALL TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON PLAN.

3) INSTALL SEDIMENT BASINS AND TRAPS AS EARLY AS POSSIBLE DURING PHASE 2 INITIAL AREA STABILIZATION MASS GRADING AS SHOWN ON PLAN. SEDIMENT BASIN TO BE INCORPORATED INTO PERMANENT DETENTION BASIN.

EROSION CONTROL PROCEDURE:

1) SILT FENCE AND TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT THE PERIMETER OF THE GRADED AREAS PRIOR TO BEGINNING OF CLEARING OR DEMOLITION OPERATIONS. THE CONTRACTOR SHALL INSTALL SILT [illegible] GRADING PR[illegible]

2) SEDIMENT BASINS AND TRAPS SHALL BE CLEANED OUT WHEN THE SEDIMENT CAPACITY HAS BEEN REDUCED BY 20% OF ITS ORIGINAL DESIGN VOLUME. REMOVE SEDIMENT BASINS AND TRAPS DURING PHASE 3 INACTIVE AREA STABILIZATION AS THE FINAL STEP IN MASS GRADING ACTIVITIES. THE SKIMMER SHALL REMAIN IN SERVICE UNTIL ALL AREAS CONTRIBUTING RUNOFF HAVE BEEN STABILIZED WITH THE ESTABLISHMENT OF VEGETATION 60% MINIMUM.

TEMPORARY CONSTRUCTION ENTRANCE NOTES:

A) INSTALLATION

1) AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC STREETS. IF POSSIBLE, LOCATE WHERE PERMANENT ROADS WILL EVENTUALLY BE CONSTRUCTED.

2) REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE AND CROWN FOR POSITIVE DRAINAGE.

3) IF SLOPE TOWARDS THE PUBLIC ROAD EXCEED 2% CONSTRUCT A 6 TO 8 INCH HIGH RIDGE WITH 3H : 1V SIDE SLOPES ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE EDGE OF THE PUBLIC ROAD TO DIVERT RUNOFF AWAY FROM IT.

4) INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES ALONG PUBLIC ROADS.

5) PLACE STONE TO DIMENSIONS AND GRADES AS SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.

6) DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE.

7) IF WET CONDITIONS ARE ANTICIPATED PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.

B) TROUBLESHOOTING

1) CONSULT WITH A QUALIFIED DESIGN PROFESSIONAL IF ANY OF THE FOLLOWING OCCUR:

INADEQUATE RUNOFF CONTROLS TO THE EXTENT THAT SEDIMENT WASHES ONTO PUBLIC ROADS
- INSTALL DIVERSIONS OR OTHER RUNOFF CONTROL MEASURES.

SMALL STONE, THIN PAD, OR ABSENCE OF GEOTEXTILE FABRIC RESULTS IN RUTS AND MUDDY CONDITIONS AS STONE IS PRESSED INTO SOIL - INCREASE STONE SIZE OR PAD THICKNESS OR ADD GEOTEXTILE FABRIC.

PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC - EXTEND PAD BEYOND THE MINIMUM 50 FOOT LENGTH AS NECESSARY.

C) INSPECTION AND MAINTENANCE

1) INSPECT STONE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER ANY RAIN EVENT.

2) RESHAPE PAD AS NEEDED FOR PROPER DRAINAGE AND RUNOFF CONTROL.

3) TOP DRESS WITH CLEAN 2 AND 3 INCH STONE AS NEEDED.

4) IMMEDIATELY REMOVE MUD OR SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADWAY. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.

5) REMOVE ALL TEMPORARY ROAD MATERIALS FROM AREAS WHERE PERMANENT VEGETATION WILL BE ESTABLISHED.

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Surveying LS-[illegible]
Oklahoma
Engineering [illegible]
Nebraska
Engineering CA[illegible]

Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

Project: Monticello
Issue Date: April 10, 2020

ESC PHASE 3 - Inactive Area Stabilization Plan
w/ Public Improvements
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
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KS PE 19071
OK PE 25226

REVISIONS
REV. 5/20/2020

C.052

FINAL RESTORATION PLAN

SCALE: 1" = 80'

North

SILT FENCE PROTECTION TO BE MAINTAINED BY CONTRACTOR

LEGEND

PHASE 1 SILT FENCE	SF-1
PHASE 2 SILT FENCE	SF-2
INLET PROTECTION GUTTER BUDDY OR EQUAL	

DURING ALL PHASES OF CONSTRUCTION, INACTIVE AREA STABILIZATION METHODS AS DESCRIBED IN APWA SECTION 5111.3 SHALL BE USED TO CONTROL EROSION AND SILTATION.

NOTES: The Land Disturbance Plans indicates the Final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place

SEED AND MULCH NOTES

All areas disturbed by construction activities shall be seeded and mulched. Seeding shall be done before the proposed seedbed becomes eroded, crusted over, or dried out and shall not be done when the ground is frozen, or covered with snow. The seed shall comply with the requirements of the Missouri Seed Law and the Federal Seed Act. Also, it shall contain no seed of any plant on the Federal Noxious Weed List. Other weed seeds shall not exceed one percent by weight of mix.

Seed and Fertilizer Rate.

Mix I - Rye Grass / Blue Grass —— 100 lbs. per Acre
Mix II - Tall Fescue / Blue Grass —— 195 lbs. per Acre
Lime —— [illegible] lbs per Acre (50 lbs. per 1000 sq. ft.)
Fertilizer —— 800 to 1200 lbs per Acre (26 lbs per 1000 sq. ft.)

During the dates December 15th through May 31 ALL lime fertilizer, seed and mulch shall be applied to finished slopes of disturbed areas. During the months of June, July, October and November 1st through December 15th, lime fertilizer, seed and mulch shall be applied at the following rates:
Lime - 100% of specified quantity
Fertilizer - 75% of the specified quantity
Seed - 50% of the specified quantity
Mulch - 100% of the specified quantity

Mulch shall be Vegetative type, cereal straw from stalks of oats, rye, or barley, or approved equal. The straw shall be free of prohibited weed seed and relatively free of all other noxious and undesirable seed. Mulch shall be applied at the rate of 2 tons per acre, (70 to 90 lbs per 1000 sq. ft.). Mulch shall be embedded by a mulch anchoring tool or disk type roller having flat serrated disks spaced not more than 10 inches apart and cleaning scrapers shall be provided

ONCE SITE IS 90% VEGETATED ALL ESC DEVICES SHALL BE REMOVED AND ANY DISTURBED AREAS SHALL BE RESTORED. ONCE STABILIZATION HAS OCCURRED THROUGHOUT THE SITE REMOVE SKIMMER AND EXCESS SILT FROM DETENTION BASIN AND STABILIZE AFFECTED AREA WITH VEGETATION.

ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P:(816) 623-9888 F:(816) 623-9849

Professional Registration
Missouri
Engineering 2008002185-D
Surveying 2008008319-D
Kansas
Engineering E-1986
Surveying LS-219
Oklahoma
Engineering 8264
Nebraska
Engineering CA2671

Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

Project: Monticello
Issue Date: April 10, 2020

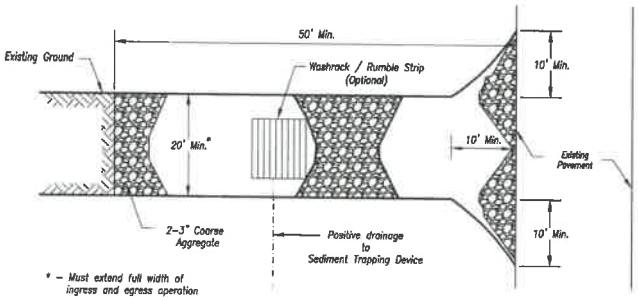
ESC PHASE 4 - Final Restoration Plan
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226

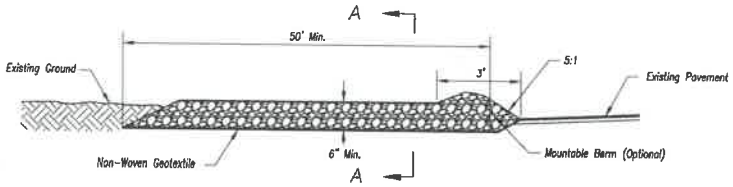
REVISIONS
REV. 5/20/2020

C.053

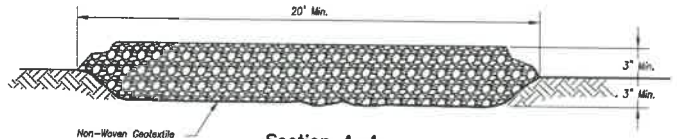
Appendix B – Erosion Control Details



Plan View
Not to Scale



Side Elevation
Not to Scale



Section A-A
Not to Scale

Notes for Construction Entrance:

1. Avoid locating on steep slopes, at curves on public roads, or downhill of disturbed area.
2. Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
3. If slope towards the public road exceeds 2%, construct a 6- to 8-inch high ridge with 3H:1V side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
4. Install pipe under the entrance if needed to maintain drainage ditches along public roads.
5. Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
6. Divert all surface runoff and drainage from the entrance to a sediment control device.
7. If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

Maintenance for Construction Entrance:

1. Reshape entrance as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.

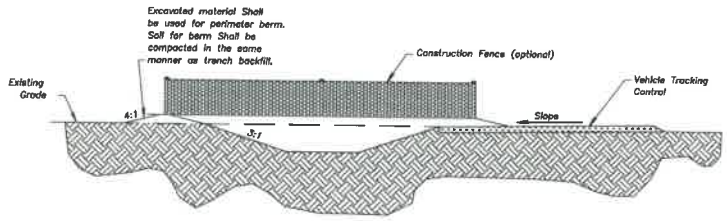
CONSTRUCTION ENTRANCE

Notes for Concrete Washout:

1. Concrete washout areas shall be installed prior to any concrete placement on site.
2. Concrete washout area shall include a flat subsurface pit sized relative to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 3:1. The vehicle tracking pad shall be sloped towards the concrete washout area.
3. Vehicle tracking control is required at the access point to all concrete washout areas.
4. Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete truck and pump rigs.
5. A one-piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

Maintenance for Concrete Washout:

1. Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
2. Concrete washout areas shall be enlarged as necessary to maintain capacity for wasted concrete.
3. Concrete washout water, wasted pieces of concrete and all other debris in the subsurface pit shall be transported from the job site in a water-tight container and disposed of properly.
4. Concrete washout areas shall remain in place until all concrete for the project is placed.
5. When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and topsoil, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.



CONCRETE WASHOUT

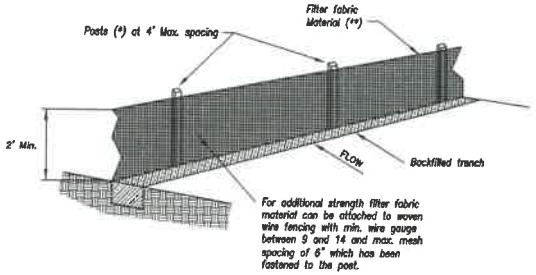
Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control; Concrete Washout modified from 2009 City of Great Bend Standard Drawings.

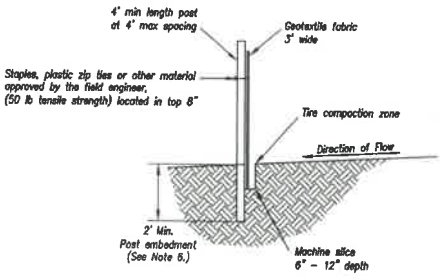
AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER

CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT

STANDARD DRAWING NUMBER ESC-01

ADOPTED: 10/24/2016





(*) POSTS
- MIN. LENGTH 4'
- HARDWOOD 1 3/16" x 1 3/16"
- NO.2 SOUTHERN PINE 2 9/16" x 2 1/16"
- STEEL 1.33 LB/FT

(**) – Geotextile Fabric shall meet the requirements of AASHTO M288

Notes:

1. In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
2. Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
3. Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
4. Attach fabric to upstream side of post.
5. Install posts a minimum of 2' into the ground.
6. Trenching will only be allowed for small or difficult installation, where slicing machine cannot be reasonably used.

SILT FENCE DETAILS
Not to Scale

Maintenance:

1. Remove and dispose of sediment deposits when the deposit approaches ½ the height of silt fence.
2. Repair as necessary to maintain function and structure.

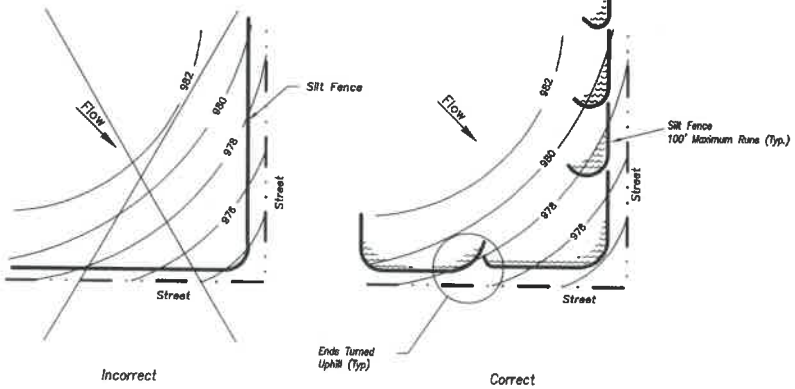
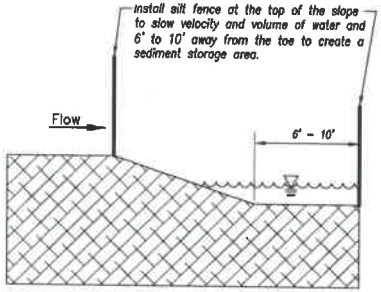
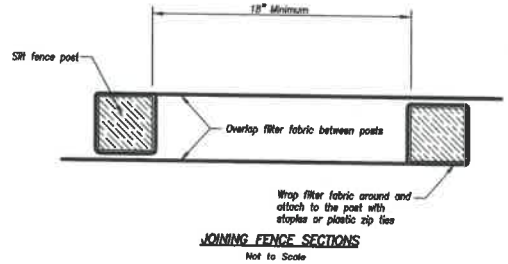


Figure A

SILT FENCE LAYOUT
Not to Scale





JOINING FENCE SECTIONS
Not to Scale

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

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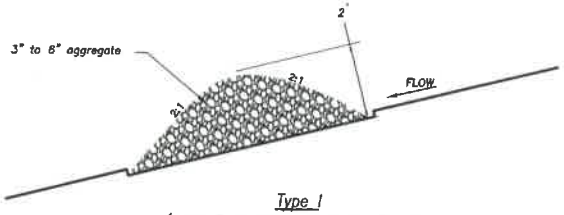
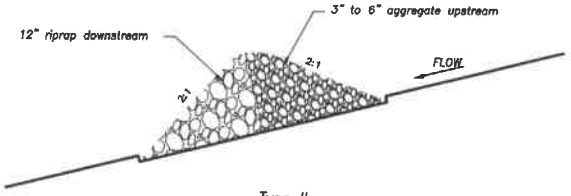
Kansas City Metro Chapter APWA
KANSAS CITY METRO CHAPTER

SILT FENCE

STANDARD DRAWING NUMBER ESC-03
ADOPTED: 10/24/2016



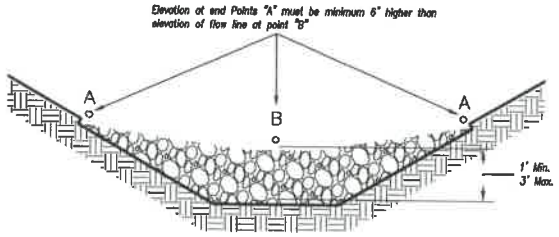
Type I
(2 Acres or less of Drainage Area)
Not to Scale



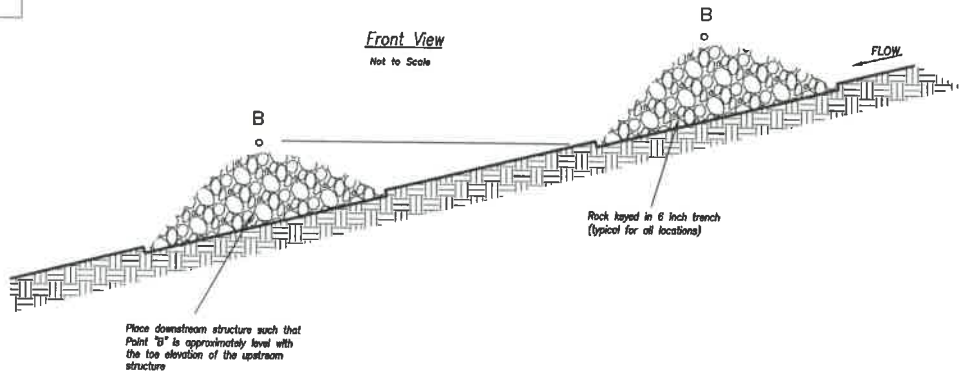
Type II
(2-10 Acres of Drainage Area)
Not to Scale

ROCK DITCH CHECK

Temporary Rock Ditch Check Spacing	
Ditch Centerline Slope (%)	Spacing Interval (Feet)
5.0	60
6.0	50
7.0	43
8.0	38
9.0	33
10.0	29
Note: Use this spacing only for Rock Ditch Checks.	



Front View
Not to Scale



Spacing Between Check Dams (all types)
Not to Scale

Notes:

1. Rock check dams shall be used only for drainage areas less that 10 acres unless approved by the City Engineer.
2. Use rock checks only in situations where the ditch slope exceeds 6%.

Maintenance:

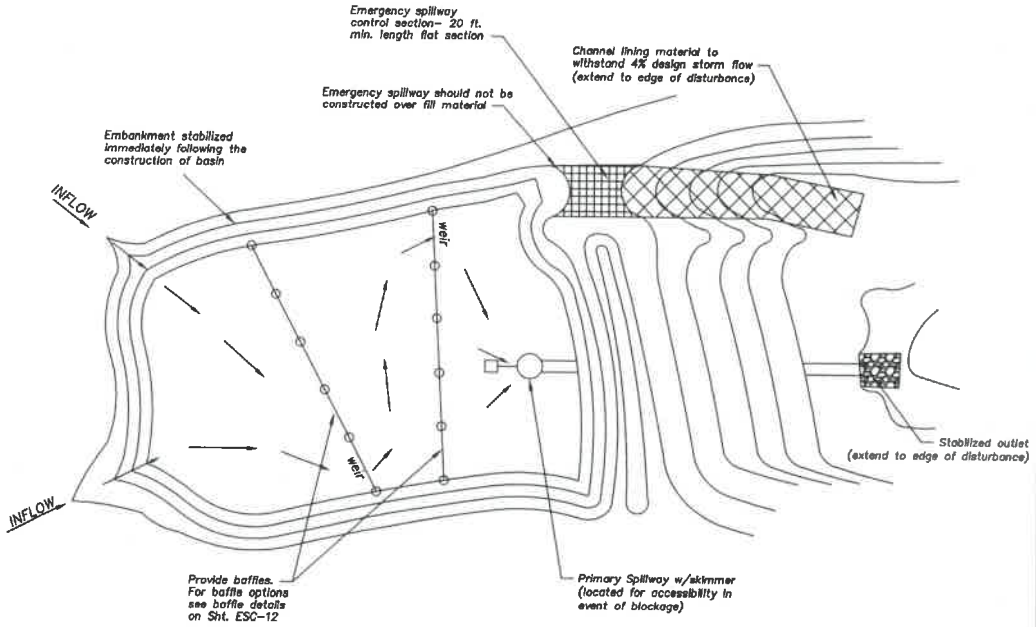
1. Remove and dispose of sediment deposits when the deposit approaches ½ the height of the ditch check.
2. Replace and reshape as necessary to maintain function and integrity of installation.

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER

ROCK DITCH CHECKS

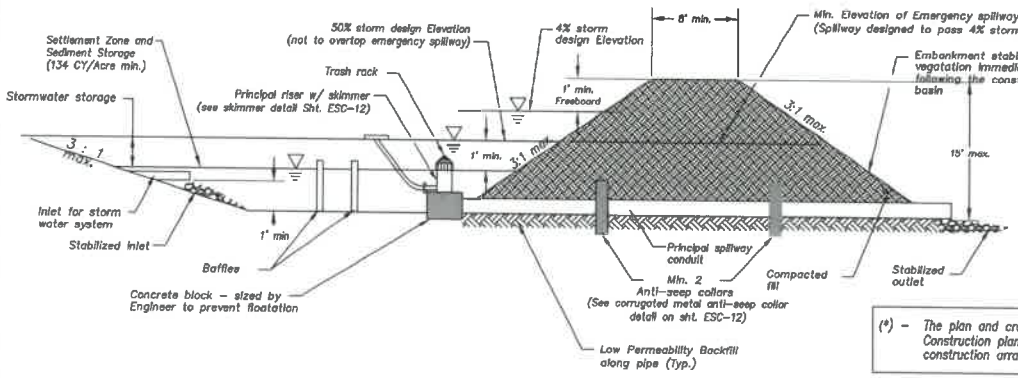
STANDARD DRAWING NUMBER ESC-10
ADOPTED: 10/24/2016



Plan View (*)
Not to Scale

Sediment Basin Design Summary (**)

Design Item	Basin #1	Basin #2	Units	Notes
Site Data:				
Tributary Drainage Area to Pond			Acres	
50% (2 yr) Design Flow			cfs	
4% (25 yr) Design Flow			cfs	
Pond Data:				
Minimum Sediment Storage Volume			cu yd	134 cy/acre required minimum
Provided Sediment Storage Volume			cu yd	
Bottom Elevation			Ft	
Sediment Cleanout Elevation			Ft	Elevation equal to 20% of original design volume
Top of Riser Elevation			Ft	Top of dry storage volume
Emergency Spillway Elevation			Ft	at or above Q–2 elevation. 1.0 ft min above principal spillway
Top of Dam Elevation			Ft	1.0 ft min above Q–25 elevation
Basin Shape Data:				
A = Area at Normal Pool			SF	
L = Length of Flow Path			Ft	
We = Effective Width = A/L			Ft	
Length to Width Ratio = L/We				
Principal Spillway Data:				
Riser Pipe dia			in	15" min. Size for 2 year flow minimum
Barrel Pipe dia			in	15" min. Size for 2 year flow minimum
Concrete Base size for Riser Pipe			CY	Size to prevent flotation. 1.25 safety factor required
Skimmer Size				Designer to provide specific details and calculations per application to dewater in 48 to 72 hours
Emergency Spillway Data:				
Design Depth in Spillway			ft	
Design Velocity in Spillway			ft/sec	
Lining Material				Designer to provide specific details and calculations per application
(**) – Required on all Sediment Basin Plan Sheets				



Cross Section (*)
Not to Scale

(*) – The plan and cross section are schematic in nature. Construction plans must provide specific site construction arrangements.

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

Sediment Basin Notes:

1. Interior baffles shall be provided to reduce short–circuiting of the basin. See Sht. ESC–12 for approved baffle options.
2. Emergency spillways to be located in a non–fill location when feasible and shall be lined with a non–erodible material such as Riprap or Turf Reinforcement Mat.
3. When directed, sediment basins shall be fenced using construction fence or other material for safety reasons and include warning signs, reading: "Danger – KEEP OUT".

Maintenance:

1. Check temporary sediment basins after periods of significant runoff.
2. Remove sediment and restore the basin to its original dimensions when sediment accumulates to 20% of the storage capacity.
3. Immediately repair any erosion damage to the embankment and outlets.
4. Repair and/or replace baffles as necessary to maintain function and integrity of installation.
5. Keep outlet, skimmer and pool area free of all trash and other debris.

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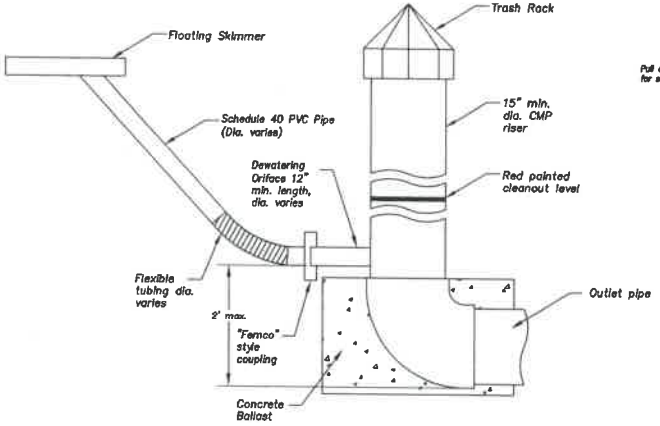
APWA

KANSAS CITY METRO CHAPTER

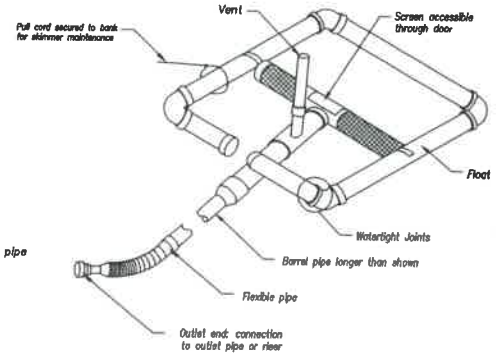
SEDIMENT BASIN

STANDARD DRAWING NUMBER ESC-11

ADOPTED: 10/24/2016

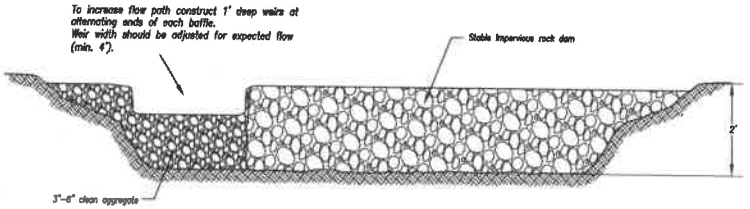


PRINCIPAL SPILLWAY DETAIL

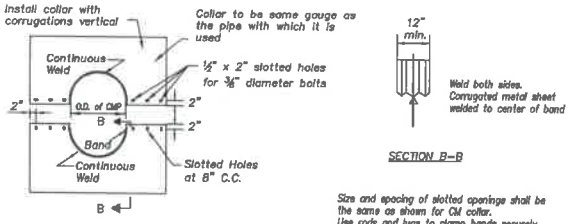


SKIMMER DETAIL (Typ.) *

* Designer to provide specific details per application (e.g. pipe sizes, screen sizes, perforation, etc.) as required.

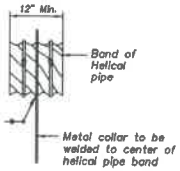


Option A – Rock with Weir

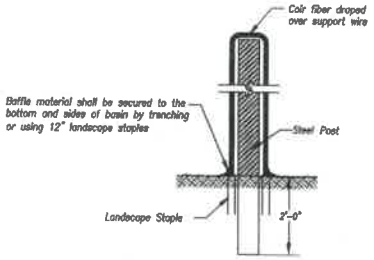


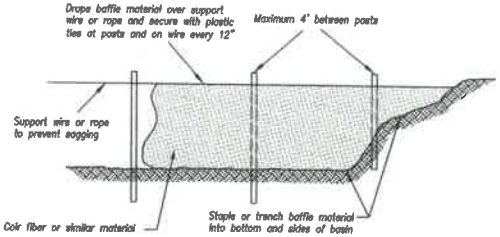
SECTION B–B

Size and spacing of slotted openings shall be the same as shown for CM collar. Use rods and lugs to clamp bands securely to pipe.

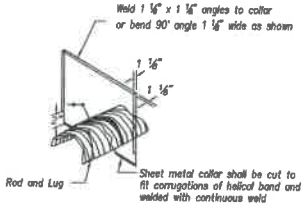


PARTIAL ELEVATION

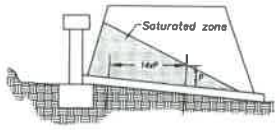




Option B – Coir Fiber Material



ISOMETRIC VIEW



ANTI-SEEPAGE COLLAR LOCATIONS

CORRUGATED METAL ANTI-SEEPAGE COLLAR DETAIL

Not to Scale

Anti-Seepage Collar Notes:

1. Connections between the anti-seepage collar and the barrel must be watertight.
2. P = projection distance. Sized as required to achieve at least a 10% increase in seepage length.
3. 14xP = Max. spacing between collars.
4. Collars shall generally be placed in the middle third of the embankment, and within the saturated zone.
5. All materials to be in accordance with construction material specifications.
6. When specified on the plans, coating of collars shall be in accordance with construction material specifications.
7. Unassembled collars shall be marked by painting or tagging to identify matching pairs.
8. The lap between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at the time of installation.
9. Each collar shall be furnished with two (2) ½" diameter rods with standard tank lugs for connecting the collars to the pipe.
10. For bands and collars, modification of the details shown may be used providing equal water tightness is maintained and detailed drawings are Submitted and approved by the Engineer prior to delivery.
11. Two other types of anti-seep collars are:
    a. Corrugated metal, similar to above, except shop welded to a 4 ft. section of the pipe and connected to the pipe with connecting bands.
    b. Concrete, 6 inches thick, formed around the pipe with #3 rebar spaced 15".

BAFFLE DETAILS

Not to Scale

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

AMERICAN PUBLIC WORKS ASSOCIATION

KANSAS CITY METRO CHAPTER

SEDIMENT BASIN - DETAILS

STANDARD DRAWING NUMBER ESC-12

ADOPTED: 10/24/2016

Appendix C – Permits

Appendix D – Certifications

Project Owner Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature Date

Contractor Certification (_____)
CONTRACTOR COMPANY NAME

I certify under penalty of law that I understand the terms and conditions of this SWPPP and all procedures of storm water discharges associated activities from the construction site identified as part of this certification

Name

Title

Date

Appendix E – Inspection and Maintenance Logs

Monticello 4th Plat

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

LARGE DISTURBED AREA INSPECTION FORM

To be completed every 7 days and within 24 hours of any precipitation event

Inspector:_____ Date:_____

Inspector's Qualifications:

Days since last rainfall:_____ Amount of last rainfall:____inches

Stabilization Measures

Area	Date of Last Stabilization	Stabilization Measures	Current Condition

Stabilization required:

To be performed by:_____ On or Before:_____

Monticello 4th Plat

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

SEDIMENT BASIN & ROADWAY INSPECTION FORM

Sediment Basin(s):

Basin ID/Depth	Condition of Basin Side Slope	Any Evidence of Overtopping of the Embankment	Condition of Outfall from Sediment Basin

Maintenance required from sediment basin:

To be performed by:_____ On or Before:_____

Other Controls / Stabilized Construction Entrance

Is Sediment on Paved Roadway?	Is Gravel Clean or is it Filled with Sediment?	Does all Traffic use the Stabilized Entrance to Leave the Site?	Is the Culvert Beneath the Entrance Working?

Maintenance required from stabilized construction entrance:

To be performed by:_____ On or Before:_____

Monticello 4th Plat

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

PERIMETER BARRIER PROTECTION INSPECTION FORM

To be completed every 7 days and within 24 hours of any precipitation event

Inspector:_____ Date:_____

Silt Fence and/or Straw Bales

Area	Date of Last Stabilization	Stabilization Measures	Current Condition

Maintenance required for silt fence and straw bales:

To be performed by:_____ On or Before:_____

Monticello 4th Plat

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

Changes required to the SWPPP:

Reasons for changes:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possibility of fine for knowing of violations.

_____
Name

_____
Title

_____
Date