

**SWPPP NOTES:**

**A. PURPOSE:**

The purpose of the Storm Water Pollution Prevention Plan (SWPPP) shall meet the following objectives:

- Prevent erosion where construction activities shall occur.
- Prevent pollutants from mixing with storm water.
- Prevent pollutants from being discharged by trapping them on-site, before they can affect the receiving waters.

**B. PROJECT DESCRIPTION:**

The project is located in the Dardenne Creek watershed in St. Charles County, Missouri. This project area is approximately 21.76 Acres, with 21.67 Acres being disturbed.

The project activities consist of grading for a residential subdivision along with the grading and installation of the proposed detention basins. The site will be protected with the various erosion protection measures listed below:

- 1. Perimeter Silt Control:** The portion of the project perimeter that has the potential for storm water runoff will have silt control installed. These silt control shall be composed of straw bales, silt fence, silt sock or a wood chip barrier. These devices shall be built in accordance with the details as listed in the MNR Stormwater Quality Guide.
- 2. Sediment Basins:** At all locations where storm water is being directed to a collection point a sediment basin will be constructed. The sediment basins will be designed to filter the pollutants from the water prior to leaving the site. When the site work and grading commences the proposed detention basins will be over-graded 2'-4" as needed for sediment storage. Each basin will have a control post set with a mark at the cleanout elevation, at which time the basin will be cleaned out to the original grades by the contractor.
- 3. Revegetation:** The site will consist of varying ground slopes upon completion of the grading activities and the slope areas prone to erosion will be seeded and staked to stabilize the slope and prevent erosion. All finish grades (areas not to be disturbed by future improvements) in excess of twenty (20) percent slopes (5 horizontal to 1 vertical) shall be mulched and locked as required in the Grading Ordinance.
- 4. Storm Inlet Protection:** All storm water inlet structures shall be protected with silt control. These controls will be constructed in accordance with the latest details from the Wentzville Grading Ordinance.

**C. MAINTENANCE AND INSPECTION:**

**Regular Maintenance:** Weekly inspections of the project will be required and made available to the City of O'Fallon upon request.

**Periodic Inspections:** Following each rain of more than one quarter inch within 24 hours, the site will be inspected and any necessary repairs will be made. An inspection report is required to be completed also.

The field inspections will be conducted in a systematic manner to minimize the possibility of any significant feature being overlooked. Particular attention will be given to detecting evidence of erosion, slope instability, undue settlement, displacement, and rilling. The field inspection will include appropriate features and items, including potential hazards to human life or property.

The condition of the slopes and vegetative cover will be evaluated and examined for erosion. The sediment basins will be examined for excessive sedimentation and increase in sediment loads, which would reduce the sediment basins capacity.

Measures will be taken to promote the growth of vegetation and repair of damage caused by erosion and sedimentation. The inspection will also provide any recommendations for measures that need to be undertaken immediately, based on the experience and judgment of the inspector. Necessary follow up inspections will be made as necessary to verify that any maintenance, alteration, or repair measures are accomplished by methods acceptable by standard engineering practice.

**STORM WATER POLLUTION PREVENTION PLAN SITE NOTES:**

1. A Pre-Construction conference will be scheduled with the City prior to the start of construction activities, including installation of the temporary construction entrance. The permittee will be responsible for notifying all contractors and other entities including utility crews that will perform work at the site to be in attendance.
2. The contractor shall install perimeter siltation control (silt fencing) and install the construction entrance.
3. Site then shall be cleared and stripped.
4. Contractor shall install additional silt fencing and any other sediment control measures as needed in order to control siltation on site.
5. Contractor shall maintain all siltation control devices and provide inspection reports as outlined.
6. Contractor shall finish grade all areas as soon as practical and establish permanent vegetation and/or install erosion control matting as shown.
7. During construction of site, the contractor shall maintain all drainage and erosion control structures as needed.
8. Contractor shall finish grade and install any final erosion control measures as project is completed as well as all permanent landscaping.
9. Contractor to submit City 2 days prior to any site work.
10. Refer to SWPPP Report for sediment controls, maintenance and inspection requirements.

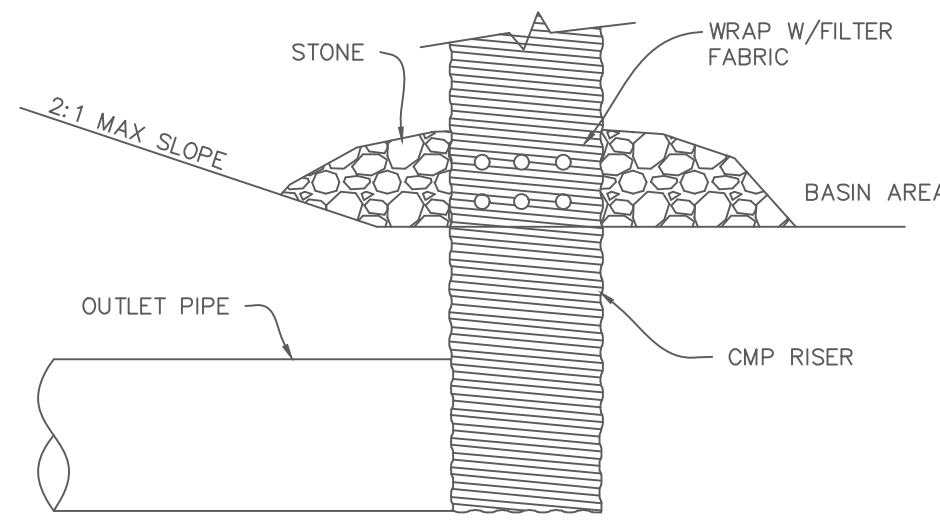
**Table 60-5 Soil Stabilization Schedule**

Soil Disturbance Activity or Condition	Required Stabilization Time
Soil disturbance has ceased in areas greater than 2,000 square feet.	14 days
After construction of dikes, swales, diversions, and other concentrated flow areas	5 days
When slopes are steeper than 3 horizontal to 1 vertical	7 days
When slopes are greater than 3% and longer than 150 feet.	14 days
Perimeter controls around soil stockpiles.	End of workday
Stabilization or covering of inactive stockpiles.	30 days
When land disturbance is completed, permanent soil stabilization must be installed.	30 days

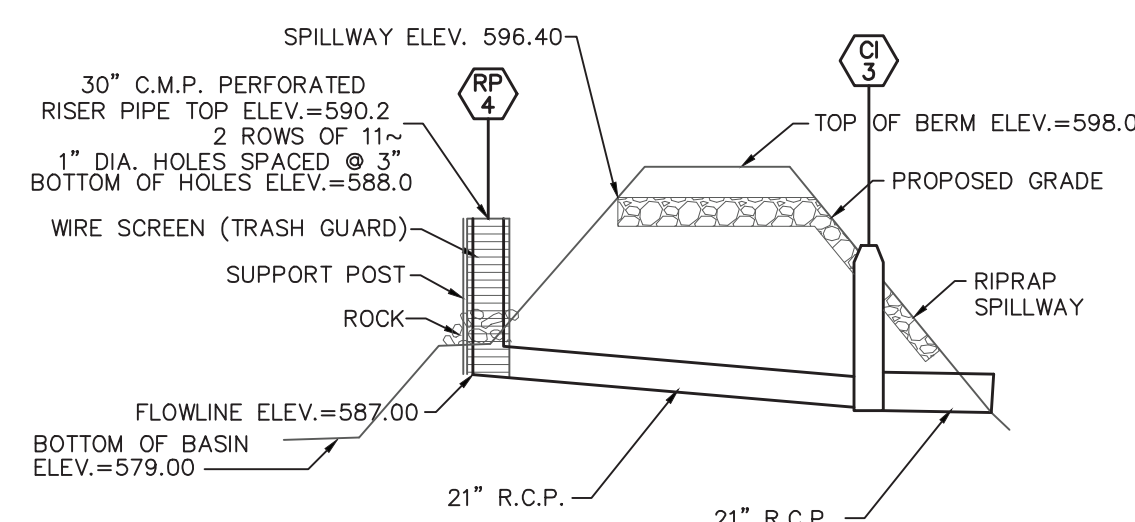
**SPILL AND SITE POLLUTION:**

Should an accidental spill occur refer to material safety data sheets. Any spills of hazardous materials in quantities in excess of reportable quantities as defined by EPA or the state agency regulations, shall be immediately reported to the EPA National Response Center (800-424-8802) and Missouri Department of Natural Resources (573-634-2436). Reportable spills for petroleum products is greater than 50 gallons. All other reportable hazardous materials and their quantities may be found on the web site at <http://www.dnr.mo.gov> on the local number is 573-640-9750. Federal law requires the responsible party to report any release of oil if it reaches or threatens a sewer, lake, creek, stream, river, groundwater, wetlands, or area like a road ditch, that drains into the above.

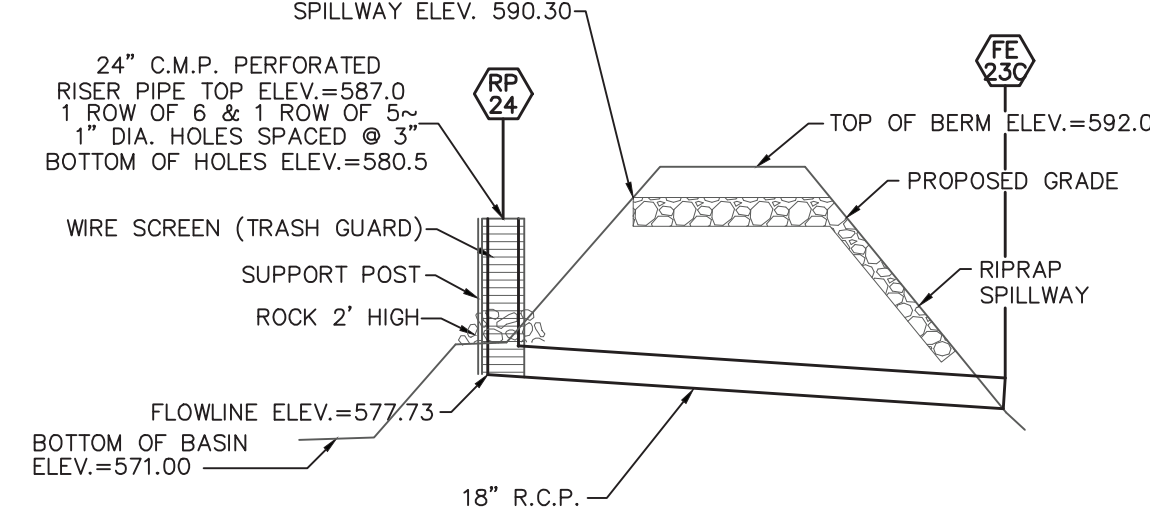
An emergency spill kit is required to be onsite for all potential spills.



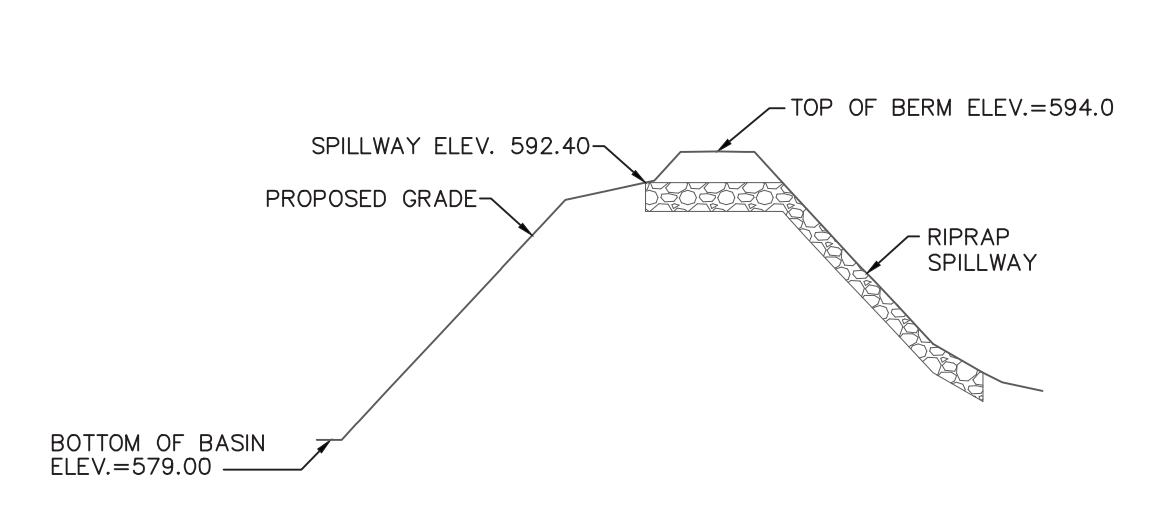
**SEDIMENT RISER/PIPE CONNECTION**  
N.T.S.



**TEMPORARY SEDIMENT BASIN A**  
NOT TO SCALE



**TEMPORARY SEDIMENT BASIN B**  
NOT TO SCALE



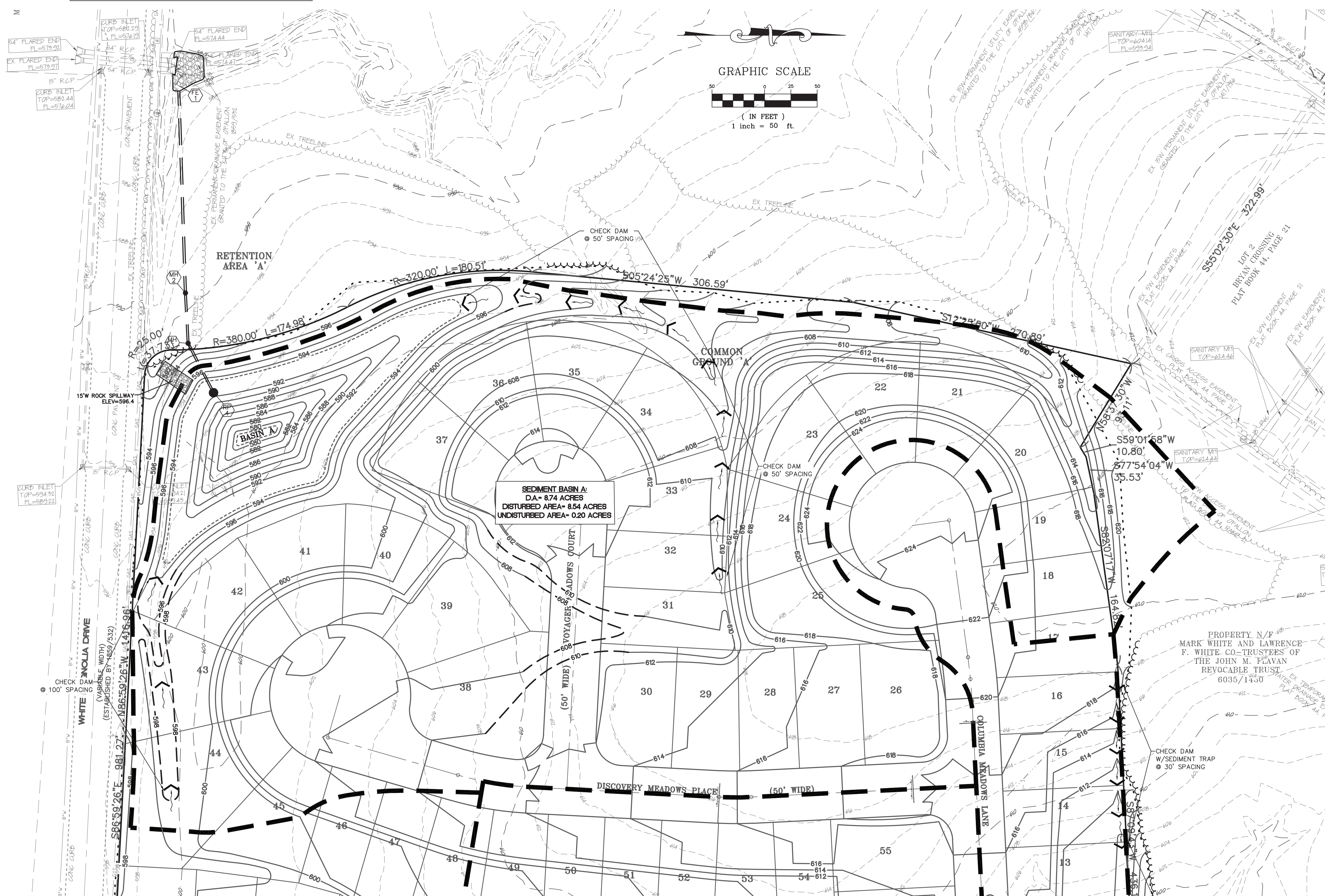
**TEMPORARY SEDIMENT TRAP C**  
NOT TO SCALE

**NOTES:**  
1. SEE PLANS FOR SPILLWAY ELEVATION.  
2. FOLLOWING SITE STABILIZATION, ALL BASINS SHALL BE EXCAVATED TO FINAL PROPOSED GRADES AND RISER PIPE REPLACED WITH OCS.

**NOTE:**  
SPILLWAY ELEVATION: 596.40  
SEDIMENT STORAGE ELEVATION: 580.55  
WET STORAGE ELEVATION: 590.34  
PAINT MARK @ ELEVATION 587.82 FOR CLEANOUT OF SEDIMENT BASIN.

**NOTE:**  
SPILLWAY ELEVATION: 590.30  
SEDIMENT STORAGE ELEVATION: 575.06  
WET STORAGE ELEVATION: 584.77  
PAINT MARK @ ELEVATION 581.62 FOR CLEANOUT OF SEDIMENT BASIN.

**NOTE:**  
SPILLWAY ELEVATION: 592.40  
SEDIMENT STORAGE ELEVATION: 581.01  
WET STORAGE ELEVATION: 587.77  
PAINT MARK @ ELEVATION 585.54 FOR CLEANOUT OF SEDIMENT BASIN.



PROJECT TITLE:

**COLUMBIA MEADOWS**

ENGINEERING  
PLANNING  
SURVEYING  
22 Point View Blvd  
St. Charles, MO 63001  
636-928-5562  
FAX 636-928-1718



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I hereby specify that the documents intended to be authorized by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or projects.



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**REVISIONS**

DATE	DESCRIPTION
10/13/20	CITY COMMENTS
01/08/21	CITY COMMENTS
02/10/21	CITY COMMENTS
02/23/21	CITY COMMENTS

**Developer / Owner:**  
Alpha Land Development Two, L.L.C.  
612 Trade Center Boulevard  
Chesterfield, MO 63005  
314-721-7779

**P+Z No.** #19-004868

**Approval Date:** 07/23/2020

**City No.** #?

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**STORMWATER POLLUTION PREVENTION PLAN**

Issue Date: 08/12/2020