STORM WATER POLLUTION PREVENTION PLAN

A. PURPOSE:

The Storm Water Pollution Prevention Plan (SWPPP) shall meet the following objections:

- 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 Peruque Creek watershed in St. Charles County, Missouri. The project disturbs approximately 0.68 acres.

The project activities consist of clearing and grading the site for future residential development. The site will be protected with the various erosion protection measures listed below:

1. Silt Barriers: The perimeter of the project that allows storm water to exit will have silt fences installed. Details of these devices are depicted on the construction plans prepared by Bax Engineering Company, Inc.
2. Re-vegetation: The site will consist of varying ground slopes upon completion of the grading activities and will be seeded and strawed to stabilize the slope and prevent erosion.
3. Storm Water Quality: Construction of proposed sediment traps and basin will along with inlet filters will be utilized for storm water protection.

C. MAINTENANCE AND INSPECTION:

The Permittee shall assume complete responsibility for controlling all siltation and erosion of the project area. The Permittee 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 plan). Control shall commence with the clearing operations and be maintained throughout the project until acceptance of the work by City of St. Charles.

Regular Maintenance: Weekly inspections of the project will include: (a) The repair of any sediment (silt) silt fences not well shaped or out of place; (b) The removal of any accumulated trash and/or debris: (c) The clearing of debris, weeds and wild growth and the removal of vegetation where necessary to allow the storm water quality items to perform effectively; and (d) The removal of any externally deposited waste materials.

Periodic Inspections: Following each rain of more than 0.25 inch, the site will be inspected within 24 hours, and any necessary maintenance will be provided for a period of one year following the completion of the above remediation measures.

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Maintenance and Inspections Summary: Summaries of the maintenance and the inspections will be maintained and shall be available from the Owner. An inspection report should be filed and kept on site for every inspection. The report should detail the findings of the inspection and if any action was required. The inspection form needs to include; name of site, name of inspector, permit number, date of inspection, major observations, actions taken to correct problems and the signature of inspector. The inspection reports need to kept in an accessible onsite location. The reports must be kept on file by the permittee for three years after the project is completed.

The field inspections will be conducted in a systematic manner to minimize the possibility of any significant feature being overlooked. A detailed checklist will be developed and followed for the examination. Particular attention will be given to detecting evidence of erosion, slope instability, undue settlement, displacement, and tilting. Photographs and drawings will be used freely to record conditions in order to minimize descriptions. 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. If required basins will be examined for excessive sedimentation and increase in sediment loads, which will reduce the 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 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.

If site is not stabilized by the time the water level reaches the low flow slot of the permanent structure, water shall be removed from basin by pumping.

A SWPPP document has been prepared for this project. The SWPPP document shall be updated and kept current by the Developer or designee for all phases of construction.

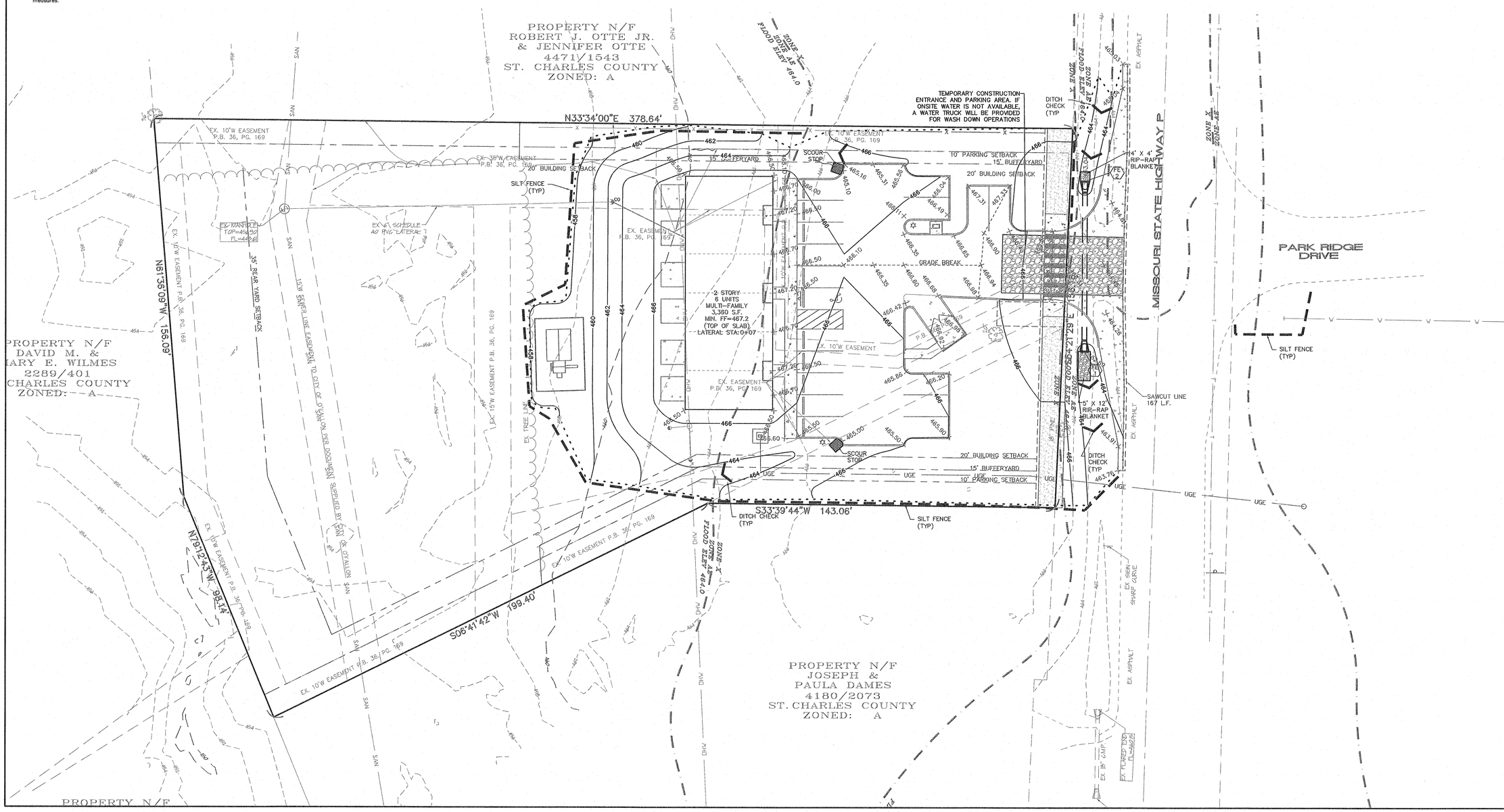
SPILL AND SITE POLLUTION:

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 an the local number is 573-840-9750. 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.

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 to1 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



GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

PROJECT TITLE:

SHANE ESTATES

#572 HIGHWAY P
CITY OF O'FALLON
ST. CHARLES COUNTY, MO. 63366

Bax Project # 97-9209C Issue Date: 05/15/2018

ENGINEERING
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DISCLAIMER OF RESPONSIBILITY
I hereby specify that the documents intended to be authenticated 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 survey.

STATE OF MISSOURI
CLIFFORD L. HEITMANN
NUMBER E-29817
REGISTERED PROFESSIONAL ENGINEER
7-19

Clifford L. Heitmann
Civil Engineer
E29817
Bax Engineering Company, Inc.
Missouri State Certificate of Authority
Engineering #000655

REVISIONS

07/05/18	CITY COMMENTS
07/17/18	CITY COMMENTS
08/31/18	MODOT COMMENTS
09/12/18	MODOT COMMENTS
12/10/18	CLIENT COMMENTS
01/09/19	CITY COMMENTS

Developer / Owner:
ELLA REAL PROPERTY HOLDINGS, L.L.C.
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(636) 577-2458

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P+Z No. 18-000613

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