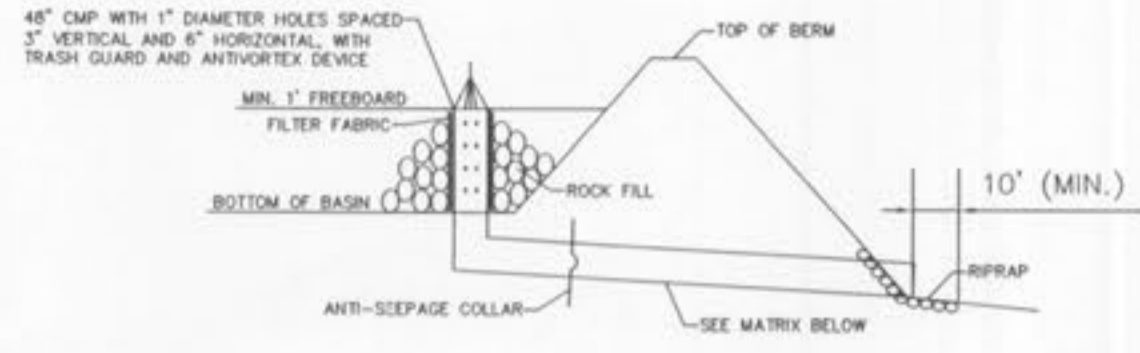


BASIN NUMBER	TRIBUTARY AREA	P.I.	Q	PIPE SIZE	MINIMUM PIPE SLOPE	Q CAPACITY	VELOCITY	BASIN DEPTH	REMARKS
1	3.66 Acres	1.7 cfs/Acre	6.22 cfs	21" CMP	1.00%	6.58 cfs	2.47 fps	3.5	SILT TRAP (53x82')

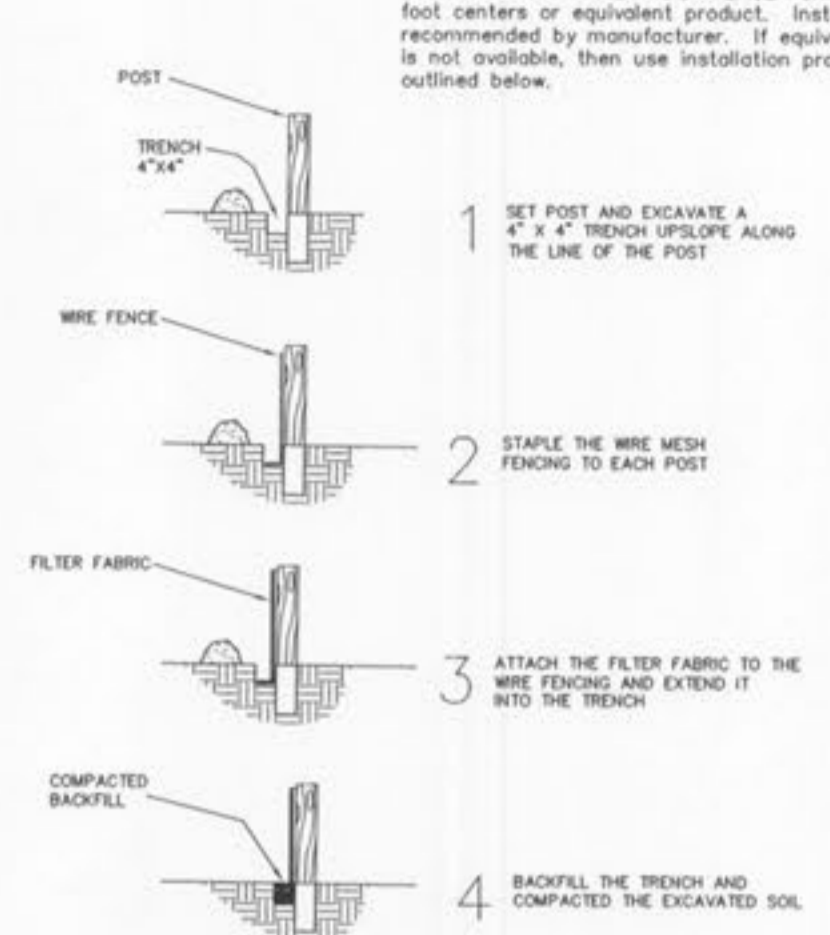
BASIN NUMBER	TRIBUTARY AREA	TRIBUTARY VOLUME	BASIN BOTTOM AREA	STORAGE SURFACE AREA	STORAGE DEPTH	STORAGE VOLUME	BASIN DEPTH	FREEBORD	REMARKS
1	3.66 Acres	6,588 C.F.	1,964 S.F.	3,587 S.F.	2.5	6,837 C.F.	±0.5'	1'	TEMPORARY SILT BASIN

- NOTES:
- SILT ACCUMULATION ("TRIBUTARY VOLUME") HAS BEEN CALCULATED AT THE RATE OF 1800 CUBIC FEET PER ACRE OF TRIBUTARY AREA.
 - STORAGE VOLUMES HAVE BEEN CALCULATED BY THE EQUATION $V = 1/3(A_1 + A_2 + A_1 \times A_2)^{0.5} \times H$, BASED UPON CONTOUR INFORMATION.
 - ALL CHANNELS AND SILT TRAP SIDE SLOPES ARE 3 HORIZONTAL TO 1 VERTICAL.
 - ALL SILT CONTAINMENTS PROVIDE A MINIMUM OF 1' FREEBOARD.

TEMPORARY SILT BASIN CALCS.



TEMPORARY SILT BASIN DETAIL
NOT TO SCALE



SYNTHETIC FILTER BARRIER SILTATION CONTROL
NOT TO SCALE

GENERAL NOTES:

- SOIL:
- Soil preparation and revegetation shall consist of seeding fescue between March 1 and June 1 at a rate of 30 pounds per acre. See Appendix A of the Model Sediment and Erosion Control Regulations for Urban Development.
 - Property Owner/Developer assumes full responsibility for performance of grading operation and assurance that all properties and City, County and State roads will be adequately protected.
 - If siltation control devices are destroyed by heavy rains, vandalism, etc., they are to be replaced immediately by Contractor.
 - Where natural vegetation is removed during grading, vegetation shall be reestablished in such a density as to prevent erosion. Permanent type grasses shall be established as soon as possible or during the next seeding period after grading has been completed.
 - When grading operations are completed or suspended for more than 14 days, permanent grass must be established at sufficient density to provide erosion control on the site. Between permanent grass seeding periods, temporary cover shall be provided according to the Designated Official's recommendation.
 - Any wells and/or springs which may exist on this property should be located and treated in a manner acceptable to the local governing authority.
 - All existing trash, debris and broken concrete pieces on site must be removed and legally disposed of off site.
 - Debris material from any existing on site building or structure which is scheduled to be razed for this development must be legally disposed of off site.
 - Soft soils in the bottom and banks of existing or former pond sites or tributaries should be removed, spread out and permitted to dry sufficiently to be used as fill. None of this material should be placed in proposed public right-of-way locations or on any storm sewer location.
 - The fill material shall be placed as directed by the Geotechnical Engineer.

PERMANENT:

- TALL FESCUE - 30 LBS./AC.
- SMOOTH BROME - 20 LBS./AC.
- COMBINED - FESCUE @ 15 LBS./AC. AND BROME @ 10 LBS./AC.

- TEMPORARY:
- WHEAT OR RYE - 150 LBS./AC. (3.5 LBS./1,000 SQ. FT.)
 - OATS - 120 LBS./AC. (2.75 LBS./1,000 SQ. FT.)

- SEEDING PERIODS:
- FESCUE OR BROME: MARCH 1 TO JUNE 1
AUGUST 1 TO OCTOBER 1
 - WHEAT OR RYE: MARCH 15 TO NOVEMBER 15
MARCH 15 TO SEPTEMBER 15

- MULCH RATES:
- 100 LBS./1,000 SQ. FT. (4356 LBS./AC.)

- FERTILIZER RATES:
- NITROGEN 30 LBS./AC.
 - PHOSPHATE 30 LBS./AC.
 - POTASSIUM 30 LBS./AC.
 - LIME 600 LBS./AC. ENM*
- *ENM = EFFECTIVE NEUTRALIZING MATERIAL PER STATE EVALUATION OF QUARRIED ROCK.

VEGETATIVE ESTABLISHMENT

- GENERAL:
- SEEDING RATE 30# TALL FESCUE PER ACRE
 - MULCHING RATE 100# PER 1,000 SQ. FT.
 - FERTILIZER 30#/ACRE NITROGEN
30#/ACRE PHOSPHATE
30#/ACRE POTASSIUM
600#/ACRE ENM

- WHEN GRADING OPERATION IS COMPLETE, THE SITE WILL BE SEEDED, FERTILIZED, LIMED, MULCHED AND TACKED AS PER ABOVE RATE.
- WHEN GRADING OPERATIONS ARE CEASED FOR 14 DAYS OR MORE, ALL DISTURBED AREAS WILL BE SEEDED TO WHEAT AT THE RATE OF 90# PER ACRE.

(FOR PROJECTS WITH BASINS, EROSION ISSUES OR STREAMS)

- DIVERSION AND SEDIMENT DAM: UPON COMPLETION OF THE DAM AND DIVERSION, THEY WILL BE SEEDED, FERTILIZED, LIMED, MULCHED AND TACKED AND WHEAT WILL BE SOWN AT THE RATE OF 60# PER ACRE.
- WATERWAY: A GEOTEXTILE STRAW NETTING WILL LINE THE BOTTOM AND SIDESLOPES OF THE WATERWAY. SEEDED WILL BE ACCORDING TO RATES DESCRIBED UNDER THE "GENERAL" HEADING.
- VEGETATIVE FILTER: REED CANARY GRASS WILL BE SEEDED FOR A FILTER ALONG THE WATERLINE OF THE POND. THE STRIP WILL BE 50 FEET WIDE AT 24# PER ACRE.

- SOD IS TO BE PROVIDED IN THE HIGHWAY K RIGHT-OF-WAY PER THE CITY OF O'FALLON.

SEEDING NOTES



CONTRACTOR TO NOTIFY MoDOT TRAFFIC DIVISION TO LOCATE ANY EXISTING SIGNAL AND LIGHTING UNDERGROUND CABLES OR WIRES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR EARTHWORK. (314) 340-4100. CALL BEFORE YOU DIG! 1-800-200-8176.

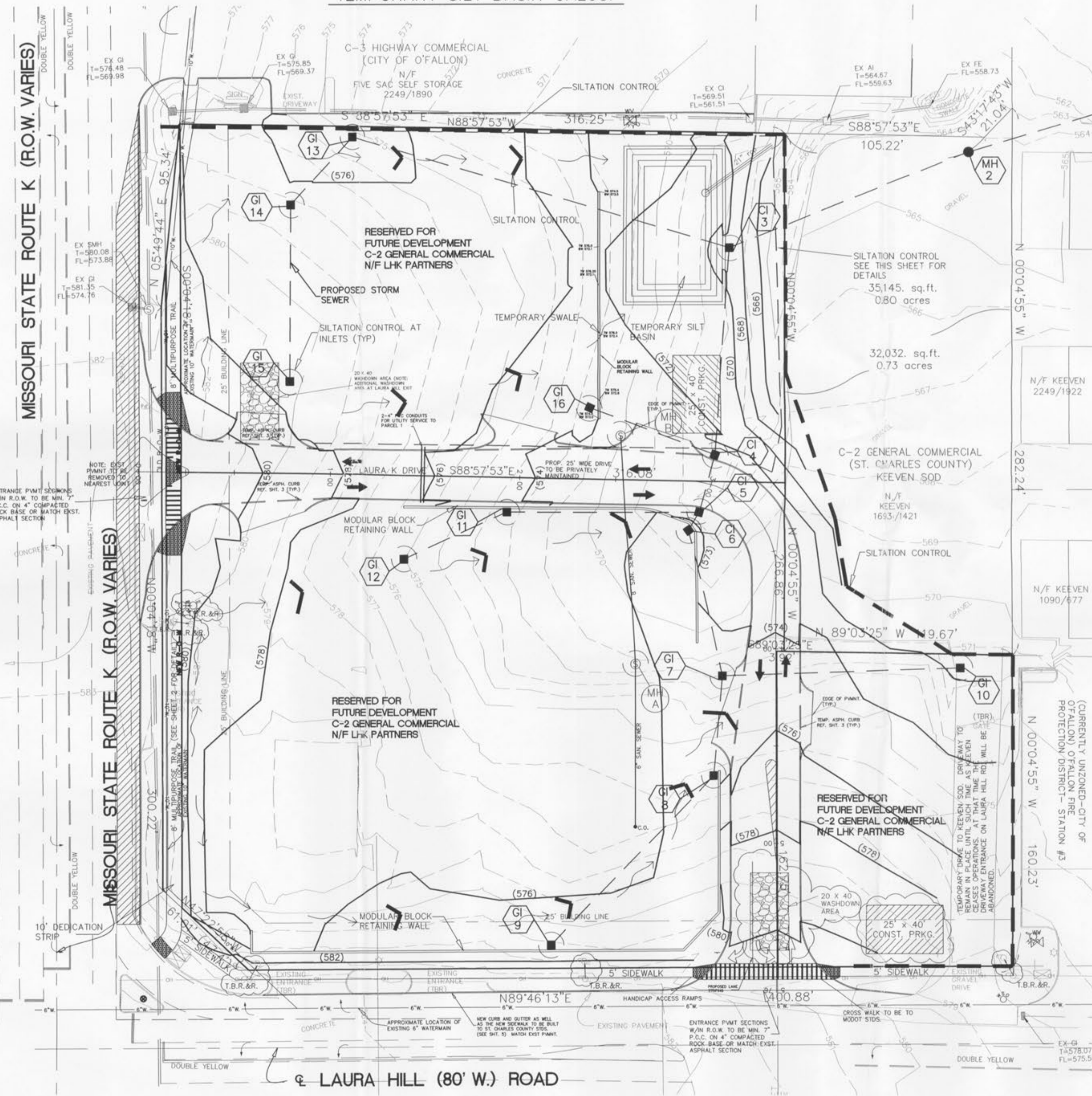
ENGINEERS CERTIFICATION:

The following applies to ALL sheets and documents involved in the preparation of the plans and documents for this project. The responsibility for Professional Engineering liability on this project is limited to the set of plans displaying the signature and an original stamped seal of the Engineer on each sheet. All responsibility is Disclaimed: until ALL review agency approvals are granted; for all other plan sheets issued prior to this plan set date; for this set when another set is issued after this date; if the sheets are used individually instead of a set. This applies for ALL sheets and documents involved in this project whether this statement appears on them or not. Copyright. All Rights Reserved.

ZAVRADINOS PROFESSIONAL ENGINEERS, INC.



JEREMY B. CHILTON 2005000963 DATE



MISSOURI STATE ROUTE K (R.O.W. VARIES)

MISSOURI STATE ROUTE K (R.O.W. VARIES)

LAURA HILL (80' W.) ROAD

O'FALLON P&Z # 3903.01
-SWPPP-