SEDIMENT AND EROSION CONTROL NOTES

1. Prior to any excavating or placement of embankment materials, all sediment control measures shall be installed and in place. The sediment control measures shown on this plan may be adjusted to meet field conditions at the time of construction. ANY ADJUSTMENTS TO THE PLAN MUST BE APPROVED BY THE INSPECTION AGENCY.
2. All construction and placement of sediment control measures shall be in accordance with the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control.
3. Sediment basins and/or traps shall be the first sediment control measure installed and the last removed so that sediment is controlled during all other construction during all other construction operations. When final site grading is complete and all upstream areas are stabilized, the sediment basins and/or traps shall be cleaned out, leveled, and a permanent stabilization applied as specified on the plan. The sediment basins and/or traps shall not be removed under dry conditions and any and all sediment control devices shall not be removed without the permission of the inspection Agency.
4. Periodic inspection and maintenance of all sediment control devices shall be provided by the contractor to insure that the intended purpose of the device is accomplished. The contractor is to repair any and all sediment control devices damaged or destroyed during construction, and all sediment basins and/or traps are to be cleaned out following each major storm to insure continued operation of the basins and/or traps.
5. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within:
   A. Three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes and all slopes greater than three (3) horizontal to one (1) vertical, (3:1), and,
   B. Seven (7) calendar days as to all other disturbed or graded areas on the project site.
6. No constructed or altered slope shall be greater than 3:1 unless otherwise approved.
7. Upon completion of all excavation, the area shall be sloped and graded as shown. All disturbed areas not otherwise paved, graded or sodded shall be topsoiled (minimum 2") limed, fertilized, seeded and mulched in accordance with the 2011 Standards and Specifications for Soil Erosion and Sediment Control Section B.
   A. Lime: Two (2) tons Dolomitic Limestone per acre.
   B. Fertilizer: 600 pounds, 0-20-20 per acre.
      400 pounds, 38-0-0 per acre.
      300 pounds, 10-20-20 per acre.
      Lime and fertilizer is to be disced uniformly into soil.
   C. Seed: 60 pounds Kentucky 31 Tall Fescue per acre.
   D. Mulch: One and one-half (1-1/2) to two (2) tons of straw per acre.
   E. Binder: 348 gallons of RS-1 per acre.
8. Prior to the start of work, the contractor is to obtain St. Mary's Soil Conservation District approval of any proposed plan changes and sequence of construction, specifically relating to installation, inspection, maintenance and removal of erosion and sediment control measures.
9. Sediment control measures are not to be removed until the areas served have established vegetative cover, and with the permission of the MDE Enforcement Inspector.
10. When pumping sediment laden water, the discharge must be directed to an approved sediment trapping measure prior to release from the site.
11. All temporary stockpiles are to be loaded within areas protected by sediment control measures, and are to be temporarily stabilized.
12. All sediment control dikes, swales, basins and flow lines to basins will be temporarily seeded immediately upon installation to reduce the contribution to sediment loading.
13. Disposal of excess earth materials on State or Federal property requires MDE approval, otherwise, materials are to be disposed of at a location approved by local authority.
14. Temporary soil erosion and sediment control measures are to be provided as per the approved plan prior to grading operations. Location adjustments are to be made in the field as necessary. The minimum area practical shall be disturbed for the minimum possible time.
15. If grading is completed out of seeding season, graded areas are to be temporarily stabilized by mulch and mulch anchoring. Mulch material shall be unweathered, unchopped small grain straw spread at a rate of 1-1/2 to 2 tons per acre. Mulch anchoring to be accomplished by an approved method, use of a mulch anchoring tool is recommended where possible.
16. Implementation of the sediment control plan shall be in accordance with the '2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control'.
17. The contractor is responsible for implementation and maintenance of the approved plan, and all other measures necessary to control, filter or prevent sediment from leaving the site.
18. In cases where stormwater management structures are a part of site development, removal of sediment control structures may not be accomplished before the contributing draining area to the stormwater management structure is stabilized. Also, proper dewatering of the sediment basin must be accomplished to prevent loss of sediment from the site.
19. On sites where infiltration techniques are utilized for the control of stormwater, extreme care must be taken to prevent all runoff from entering the structure during construction.
20. Sediment control for utility construction outside of the proposed sediment control measures shall be as follows:
   A. Excavated trench material shall be placed on the high side of the trench.
   B. Immediately following pipe installation, the trench shall be backfilled, compacted and stabilized at the end of each working day.
   C. Temporary silt fence shall be placed immediately downstream of any disturbed area intended to remain disturbed longer than (1) working day.
21. On all sites, approval of the inspection agency shall be requested upon completion of the installation of the perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
22. Approval shall be requested upon final stabilization before removal of sediment controls.
23. Signed/stamped SCD approval plans must be on-site and available at all times.
24. The Owner/Agent is responsible for contacting any/all regulatory agencies as required and having the applicable approvals in hand before commencing project. Below is a list of agency contacts:
    Maryland Department of the Environment 410-537-3510
    Maryland Department of the Environment - Wetland Issues 410-537-3819
    St. Mary's County Department of Land Use + Growth Management 301-475- 4200 x1580
    St. Mary's County Department of Public Works and Transportation 301-863-8400
    St. Mary's County Metropolitan Commission 301-863-8400
    Southern Maryland Electric Coop 888-440-3311

SEDIMENT CONTROL CONSTRUCTION SEQUENCE

1. A pre-construction meeting is required with the St. Mary's Soil Conservation District. 301-475-8402 x3. To schedule a pre-construction meeting, the owner/developer or a contractor representative must go to the District Office at least five (5) days in advance of the date you want to hold the meeting. Fees must be paid when you schedule the meeting. Failure to schedule and hold a pre-construction meeting may result in a stop work order, penalties or both.
2. Clearing and grubbing for those areas necessary for installation of perimeter and sediment controls. — 2 days
3. Installation and construction of perimeter controls. — 2 days
4. On all sites, approval by MDE inspection agency at 410-537-3510 shall be requested upon completion of the installation of the perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
5. Remaining clearing and grubbing to construct buildings, drives, sewer, water + utilities. — 1 week
6. Construct house, drives, sewer, water and utilities. — 8-10 months
7. Fine grading and permanent stabilization of disturbed areas with a minimum of 4 inches of topsoil, seed and mulch. — 2 days
8. Construct all SWM BMP's as required once all contributory drainage areas have been permanently stabilized. — 4 days
9. Removal of sediment controls upon the MDE inspectors approval. — 3-4 days

ENGINEERS CERTIFICATE

I hereby certify that the plans have been designed in accordance with approved erosion and sediment ordinances, regulations, standards and criteria.

I hereby certify that the plans shown hereon are correct and conform to the St. Mary's County standards and specifications for road, grading, sediment control, stormwater and sewer design. All clearing, grading, construction and development will be performed in accordance with these plans as approved.

I further hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Land Surveyor under the laws of the State of Maryland, License No. 21258, expiration date June 15, 2025.

R. Victor Buckler — Date

DEVELOPERS CERTIFICATE

I hereby certify that all clearing, grading, construction and development will be performed in accordance with these plans as approved and that responsible personnel involved in the construction of this project will have a Certificate of Training from an approved Maryland Department of the Environment, Sediment and Stormwater Administration training program for the control of sediment and erosion before beginning this project.

Owner — Date

TEMPORARY SEEDING SUMMARY

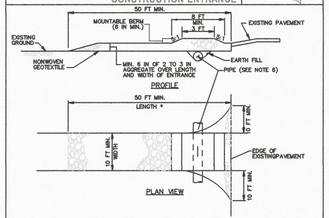
SPECIES	MINIMUM SEEDING RATES: PER ACRE	MINIMUM SEEDING RATES: LBS/1000 SQ.FT.	PLANTING DEPTH[36]: INCHES	HARDINESS ZONES[37] 7a AND 7b AND SEEDING DATES[38]: 2/1 - 4/30	5/1 - 8/14	8/15 - 11/30
CHOOSE ONE: BARLEY	2.5 BU. (122 lbs)	2.80	1/4-1/2	X	–	BY 10/15
[39] OATS	3 BU. (96 lbs)	2.21	1/4-1/2	X	–	—
RYE	2.5 BU. (140 lbs)	3.22	1/4-1/2	X	–	X
BARLEY OR RYE PLUS FOXTAIL [40] MILLET	150 lbs	3.45	1/4-1/2	X X	X X	10/15 X
WEEPING LOVEGRASS	4 lbs	0.09	1/4-1/2	–	X	–
ANNUAL RYEGRASS	50 lbs	1.15	1/4-1/2	X	–	11/1
[41] MILLET	50 lbs	1.15	1/2	–	X	–

36 Applicable on 3:1 slopes or flatter
37 Refer to figure A - Adopted from USDA, ARS Miscellaneous Publication #1475, January 1990
38 Between fall and spring seeding dates, use mulch only if ground is frozen and reseed when thawed.
39 May be used as a nurse crop for late fall/early winter permanent seeding, add 50 lbs/ac to the permanent seeding mixture.
40 Maryland State Highway Administration Temporary Seed Mix.
41 May be used as a nurse crop for mid-summer permanent seedings. Add 2 lbs/ac to permanent seed mix
42 May be used as a nurse crop for mid-summer seedings. Add 10 lbs/ac to the permanent seeding mix.

PERMANENT SEEDING SUMMARY

SEED MIXTURE (HARDINESS ZONE 7A) FROM TABLE 25: SPECIES	PER ACRE	SEEDING DATES	SEEDING DEPTH	FERTILIZER RATE: N	(10-20-20) P205	K20	LIME RATE
TALL FESCUE (75%) CANADA BLUEGRASS (10%) KENTUCKY BLUEGRASS (10%) REDTOP (5%)	150 lbs	3/1 - 5/15 8/15 - 11/15	1/4 - 1/2 in	90 LB/AC (2.0 LB/ 1000 s.f.)	175 LB/AC (4.0 LB/ 1000 s.f.)	175 LB/AC (4.0 LB/ 1000 s.f.)	2 TONS/AC (100 LB/ 1000 s.f.)
TALL FESCUE (85%) PERENNIAL BLUEGRASS (10%) KENTUCKY BLUEGRASS (5%)	125 lbs 15 lbs 10 lbs	3/1 - 5/15 8/15 - 11/15	1/4 - 1/2 in				
TALL FESCUE (85%) CROWN VETCH	110 lbs 20 lbs	3/1 - 5/15 8/15 - 11/15	1/4 - 1/2 in				

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE — STANDARD SYMBOL: SCE

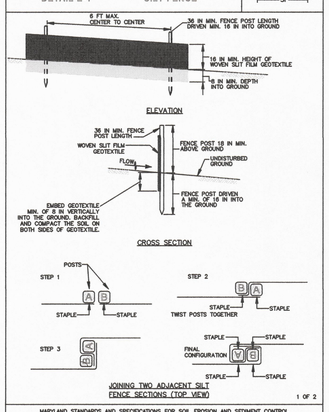


CONSTRUCTION SPECIFICATIONS

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SIZE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT AND STONE OR MAKE ANY REPAIR OR CLEANOUT NECESSARY TO PREVENT SEDIMENT OR STONE FROM ENTERING ANY SPECIFIED DIMENSIONAL IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE | 2011 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-1 SILT FENCE — STANDARD SYMBOL: SF



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MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE | 2011 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-1 SILT FENCE — STANDARD SYMBOL: SF

CONSTRUCTION SPECIFICATIONS

1. USE WOOD POSTS 1½" X 1½" A 36 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN; OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

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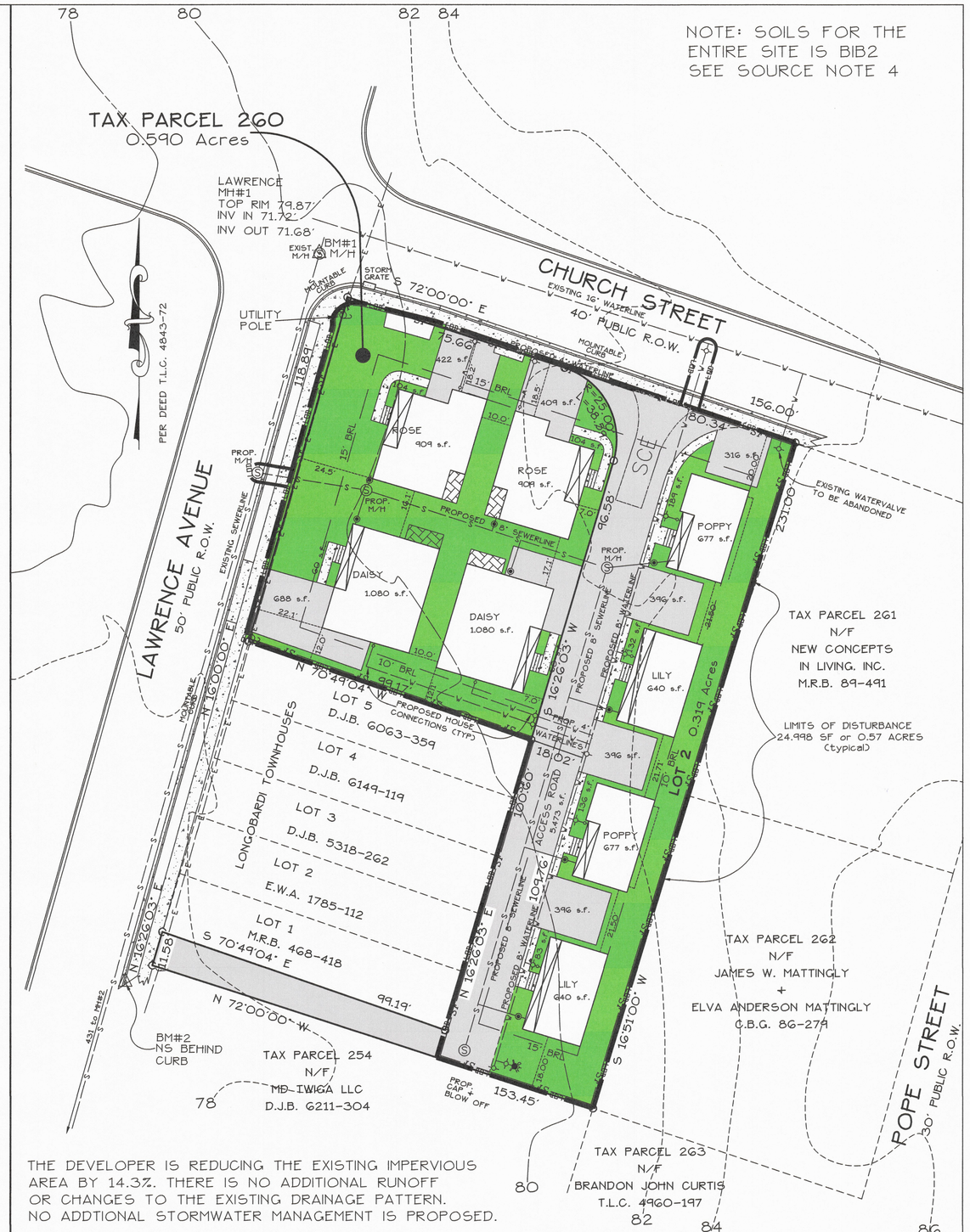
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE | 2011 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



THE DEVELOPER IS REDUCING THE EXISTING IMPERVIOUS AREA BY 14.3%. THERE IS NO ADDITIONAL RUNOFF OR CHANGES TO THE EXISTING DRAINAGE PATTERN. NO ADDTIONAL STORMWATER MANAGEMENT IS PROPOSED.

Date	Revisions
09-14-23	Initial agency + client comments

Seal: STATE OF MARYLAND — R. VICTOR BUCKLER — No. 21258 — PROFESSIONAL LAND SURVEYOR — EXPIRES 06-15-25

Scale: 1" = 20' Fax: 301-880-0653 05-03-23

R. VICTOR BUCKLER
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40562 Old Horse Landing Road
Mechanicsville, Maryland 20659
Phone: 240-925-7465
Email: Vicb@md.metrocast.net

DRAWN BY DEJ CHECKED BY RVB
Job No: 127-21-260

TOWN OF LEONARDTOWN CONTROL NO: 71-21

PIRD & MINOR SITE PLAN

E & S CONTROL NOTES AND DETAILS

COTTAGES OF LEONARDTOWN

Tax Map 127, Grid 21 as Parcel 260

Deed Liber TLC 4843 Folio 72

THIRD ELECTION DISTRICT - ST. MARYS COUNTY, MARYLAND
FOR: LAUREL GROVE PROPERTIES, LLC

HEALTH DEPARTMENT FILE # 03019278