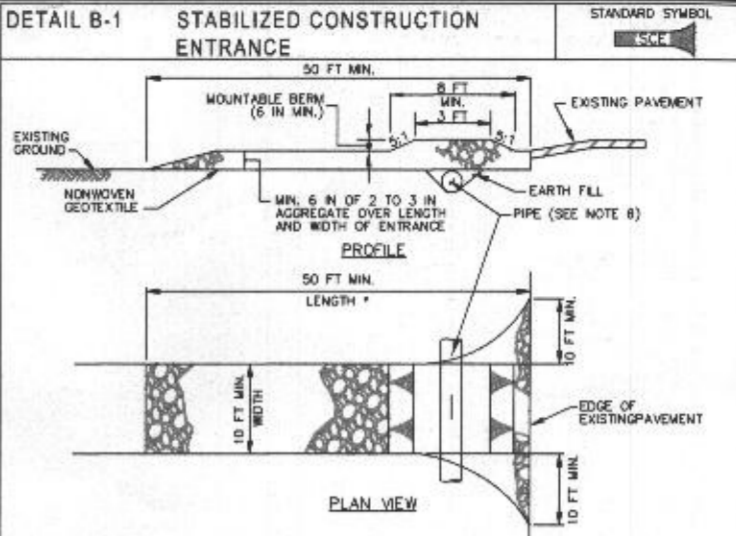


**STANDARD SEDIMENT CONTROL NOTES**

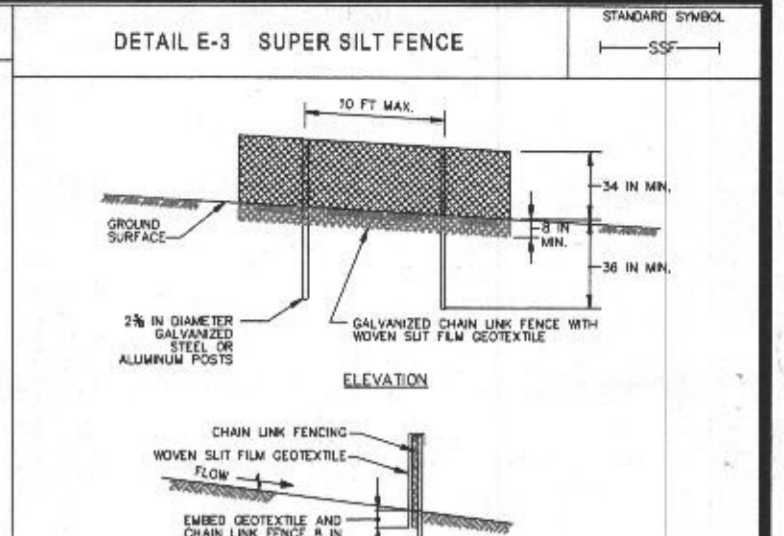
- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (313-1855).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: a) 3 calendar days for all permitted sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 7 days as to all other disturbed or graded areas on the project site.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. B-4-5), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-3). Temporary stabilization with mulch alone can only be done when recommended seeding rates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
  - Total Area of Site = 3.1137 Acres
  - Area Disturbed = 0.75 Acres
  - Area to be roofed or paved = 0.18 Acres
  - Area to be vegetatively stabilized = 0.57 Acres
  - Total Ditch = To be balanced onsite
  - Total Fill = To be balanced onsite
- Off-site waste/borrow area location: Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of 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.
- Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is shorter.
- Any changes or revisions to the sequence of construction must be reviewed and approved by the plan approval authority prior to proceeding with construction.
- A project is to be sequenced so that grading activities begin on one grading unit (maximum acreage of 20 ac. per grading unit) at a time. Wet work proceeding to a subsequent grading unit when at least 50 percent of the disturbed area in the preceding grading unit has been stabilized and approved by the enforcement authority. Unless otherwise specified and approved by the approval authority, no more than 30 acres cumulatively may be disturbed at a given time.

**STORMWATER MANAGEMENT SUMMARY TABLE**

Practice	Location	Impervious Area Treated
Rooftop Disconnection - B	Front of House	500 ft <sup>2</sup>
Rooftop Disconnection - C	Front of House	560 ft <sup>2</sup>
Rooftop Disconnection - D	Front of House	485 ft <sup>2</sup>
Rooftop Disconnection - E	Front of House	530 ft <sup>2</sup>
Rooftop Disconnection - G	Back of House	356 ft <sup>2</sup>
Rooftop Disconnection - H	Back of House	420 ft <sup>2</sup>
Rooftop Disconnection - I	Back of House	460 ft <sup>2</sup>
Non-rooftop Disconnection	Driveway	3,833 ft <sup>2</sup>
Non-rooftop Disconnection	Walkway	327 ft <sup>2</sup>
Rain Barrel - A	North side of House	435 ft <sup>2</sup>
Rain Barrel - F	Back of House	506 ft <sup>2</sup>
<b>Total Impervious Area requiring treatment = 8,056 square feet</b>		
<b>Total Impervious Area treated = 8,056 square feet</b>		



- CONSTRUCTION SPECIFICATIONS**
- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SILE. USE MINIMUM LENGTH OF 50 FEET (30 FEET FOR SINGLE RESIDENCE LOTS). USE MINIMUM WIDTH OF 10 FEET. FLARE SILE TO 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
  - PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SILE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SILE 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 SILE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SILE IS NOT LOCATED AT A HIGH SPOT.
  - PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
  - 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 SILE.
  - MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE. MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, 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.

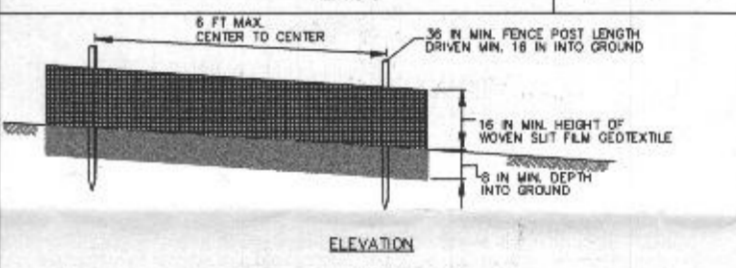


- CONSTRUCTION SPECIFICATIONS**
- INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND 5/8 FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
  - FASTEN 8 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (26 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
  - FASTEN WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
  - WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
  - EXTEND BOTH ENDS OF THE SUPER 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 SUPER SILT FENCE.
  - PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
  - REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN, IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL  
U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE 2011

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL  
U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE 2011

**DETAIL E-1 SILT FENCE**

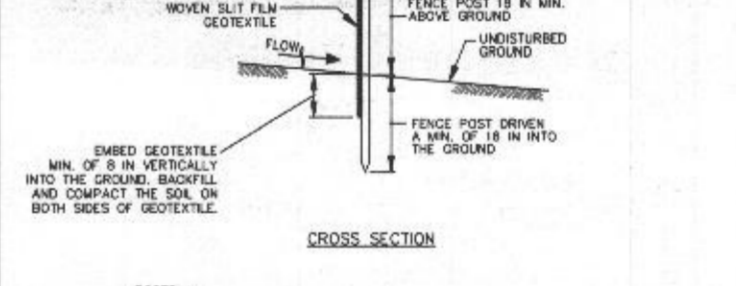


**DETAIL E-1 SILT FENCE**

- CONSTRUCTION SPECIFICATIONS**
- USE WOOD POSTS 1 1/2 X 1 1/2 X 3/4 (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATE TO WOODEN POST USE STANDARD 1" OR 1 1/2" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
  - USE 38 INCH MINIMUM POSTS DRIVEN 18 INCH MINIMUM INTO GROUND NO MORE THAN 8 FEET APART.
  - USE WOVEN SILT 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.
  - 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.
  - EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
  - WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
  - 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.
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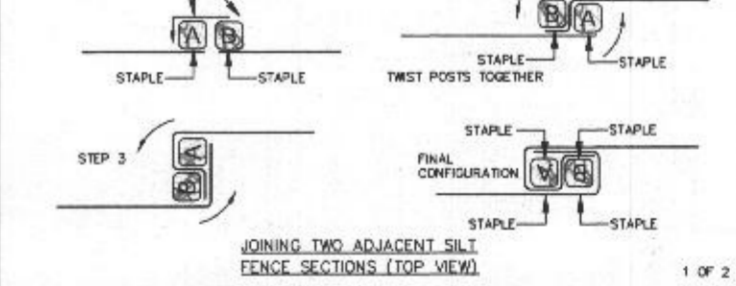
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**OPERATION AND MAINTENANCE SCHEDULE DISCONNECTION OF ROOFTOP RUNOFF (N-1), DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2)**

**OPERATION AND MAINTENANCE SCHEDULE FOR RAINWATER HARVESTING (M-1)**

- Maintenance of areas receiving disconnected runoff is generally no different than that required for other lawn or landscaped areas. The Owner shall ensure the areas receiving runoff are protected from future compaction or development of impervious area. In commercial areas, foot traffic should be discouraged as well.

- The Owner shall empty barrels on a monthly basis and clean barrel with a hose.
- The Owner shall verify integrity of leaf screens, gutters, downspouts, spigots, and mosquito screens, and clean and remove any debris.
- The Owner shall replace damaged components as needed.
- The Owner shall disconnect the barrel prior to winter, or allow the barrel to drain by bottom spigot during the winter season.

**SWM Concept Design Narrative**

Stormwater management at the proposed development will be addressed by implementing Environmental Site Design (ESD) practices to the maximum extent possible (MEP), in accordance with the revised Maryland Department of the Environment (MDE) Stormwater Design Manual Chapter 5.

The proposed development is not within any Critical Areas per Appendix D.4, nor is this a redevelopment project, or a commercial/industrial project. This site is not defined as a hot spot.

Environmental Site Design (ESD) will be achieved for the project by non-structural and structural ESD practices. These include Disconnection of Rooftop Runoff (N-1), Disconnection of Non-rooftop Runoff (N-2), and Rainwater Harvesting (M-1).

**Background**  
The property is currently developed with a two-story house near the front of the property, associated lawn area, and an 18-foot wide gravel driveway. The lawn area surrounds the home, and several outbuildings and gardens are present within the lawn. The old residential structure will be replaced with a new, two-story house of approximately 3,856 square feet in area. The existing driveway will be replaced with a new 12-foot wide driveway according to the County Standards.

The property is currently serviced by public water and a private septic system. The property is not subject to Historic District Commission requirements. The property does not lie within the BWI Airport Noise Zone or the Airport Zoning District. Furthermore, the property is not subject to Design Advisory Panel review (Route 1 or Route 40 Corridor).

**Natural Resources Protection and Enhancement**  
The rear of the property contains a brushy edge that transitions into a Tulip Poplar-dominated forest, approximately 1.28 acres in area. Eight specimen trees were identified on site, from fair to good condition. The overall community which extends offsite includes a more diverse mixed Oak/Poplar community. A small wetland/stream system is present in the southeastern corner of the property. This system extends onto the subject property from the adjacent property. The 25-foot buffer from the wetland is maintained as mowed lawn. The stream channel cuts across the corner of the site and runs through the wetlands. Portions of the stream channel have received sediment deposition and the channel is disturbed. The wetland/stream system drains to the Little Patuxent and is part of the Use IV-P watershed. The stream is subject to a 100-foot perennial stream buffer.

The proposed demolition of old house and driveway, and construction of the new house and driveway is anticipated to cause disturbance of approximately 10,200 square feet of stream buffer area. This disturbance will be caused by demolition activity, grading, and new paving within the 100' stream buffer. The disturbance will NOT involve removal of vegetative cover or trees, or construction of a structure within the buffer. Any disturbance within the non-tidal wetlands and its buffers has been avoided.

The proposed development will REDUCE total impervious area within the stream buffers from 4,815 square feet to 2,925 square feet - a 40% reduction. This positive impact will be brought about by removing the old house which currently is partially located within the buffer, and reducing the total width of driveway from existing 18 feet to 12 feet.

The construction activity will also cause removal of one specimen tree (#2). In an attempt to locating the house as far away from the stream buffer as possible, the limit of disturbance will unavoidably extend into the Critical Root Zone (CRZ) of Specimen Tree #2.

**Maintenance of Natural Flow Patterns**  
Natural topography of the site exhibits runoff flowing eastward towards Marriottsville Road. Approximately half of the site flows into a wetland stream system located at the south-east corner, which in turn drains to a culvert that passes under Marriottsville Road. The proposed design maintains the natural flow patterns on site. Minimal grading will be performed to preserve the hydrologic characteristics of the land to its pre-development stage. The post-developed drainage patterns very closely mimic the existing hydrology. All runoff from proposed impervious areas and from treatment facilities flow directly onto grassed areas, before being conveyed to the ultimate discharge points.

**Reduction of Impervious Areas**  
The house footprint has been minimized by proposing a 2-story house with basement rather than a rancher-style design. The proposed driveway width will be kept to the minimum allowed by the County, and reduced from the current 18' to 12'. To reduce the limit of disturbance to a minimum, the new house is sited in the front portion of the property. The extremely long and narrow shape of the parcel influenced the location of the house in the wider portion of the property. Advantage was also taken of using the existing driveway and extending it to a minimum extent possible, in order to reduce total impervious area on site.

**Integration of Erosion & Sediment Controls into SWM Strategy**  
A stabilized construction entrance will ensure that any construction equipment does not track mud onto public roads. Silt fence will be installed on downstream side of the limit of disturbance to trap any sediment-laden runoff during construction.

**Implementation of ESD Planning Techniques and Practices**  
The following is an overview of applicability for stormwater ESD practices considered for this project.

**Alternative Surfaces:** ESD practice includes green roofs, permeable pavements, and reinforced turf. Green roofs were not applied due to the relative high cost of the system for a residential structure. Permeable pavements such as porous pavement and concrete pavers were not used due to on-site "C" soil type. Reinforced turf has not been used, since frequent vehicle movement is expected on the driveway.

**Nonstructural Practices:** ESD practice involves directing flow from impervious areas onto vegetated areas where it can soak into or filter over ground instead of being connected to storm drain system. Disconnection of Rooftop Runoff (N-1) has been applied to treat runoff from most of the rooftop area, providing overland flow not steeper than 5%. Disconnection of non-rooftop runoff (N-2) is being applied for the driveway and walkway which are sloped not more than 5%, to facilitate natural treatment and infiltration of rainwater into the ground. Sheetflow to Conservation Areas (N-3) is not applicable since there are no preserved environmental areas downstream of outfall.

**Structural Micro-Scale Practices:** Rainwater Harvesting (M-1) will be used to treat runoff from the remaining rooftop downspouts. These downspouts are unable to be disconnected for sufficient length to be eligible as N-1 practices.

**Waiver to Environmental Regulations**  
A waiver petition in support of ECP-14-020, for construction of a single family was approved by the County on February 10, 2014. The approved waivers were to the following Sections of the Subdivision and Land Development Regulations:

Section 16.116 (a) (2) (iii), which states that "Grading, removal of vegetative cover and trees, paving and new structures shall not be permitted within 100 feet of a perennial streambank for use III & IV streams; and

Section 16.1205 (a) (10), which requires retention of specimen trees (30" dbh or greater) that are not contained within other priority forest retention areas as outlined in Section 16.1205(a)(1-9).

**KCI TECHNOLOGIES**  
ENGINEERS  
PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS  
3300 NORTH RIDGE ROAD  
ELLSWORTH CTR., MD 21104-3  
PHONE: (410) 203-9800  
FAX: (410) 203-9228  
WWW.KCI.COM

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE # 8818. EXPIRATION DATE: 10/17/2014

**OWNER/DEVELOPER**  
Kevin Son  
2830 Marriottsville Road  
Marriottsville, MD 21104  
(240) 731-0792

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, Development Engineering Division Date

CHIEF, Division of Land Development Date

**ENGINEER'S CERTIFICATE**  
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Signature of Engineer: *Kevin Son* Date: 12/19/2014  
Signature of Engineer: DHARAM V. KATHURIA Date: 12/19/2014

**DEVELOPER'S CERTIFICATE**  
I/We certify that all development and construction will be done according to this plan and that any responsible personnel involved in the construction project will have a Certificate of Attendance at MD Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize posted on-site inspection by the Howard Soil Conservation District.

Signature of Developer: *Kevin Son* Date: 12/19/2014  
Signature of Developer: DHARAM V. KATHURIA Date: 12/19/2014

**ECP NOTES & DETAILS**  
**SON PROPERTY**  
2830 MARIOTTVILLE ROAD  
RECORDED IN LIBER 14790, FOLIO 473  
3rd ELECTION DIST. HOWARD COUNTY, MARYLAND  
ZONING RC-DEO TAX MAP - 16 GRID - 16 PARCEL - 47

SCALE: 1" = 40' JOB NO.: 13111 DATE: APRIL 2, 2014 REVISION: 12/15/2014 SHEET: 2 OF 2