

SITE DEVELOPMENT PLAN

RIVER HILL OVERLOOK,

LOTS 1 THRU 8 AND

OPEN SPACE LOTS 9, 11, & 12

TAX MAP No. 35 GRID No. 8 PARCEL NO. 66

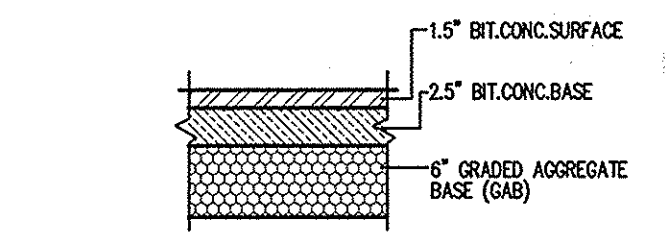
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

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5	SEDIMENT & EROSION CONTROL NOTES & DETAILS

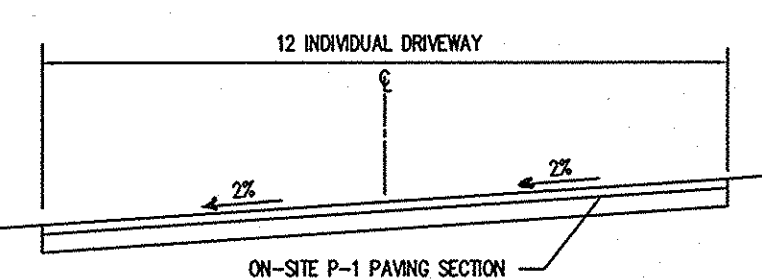
STORMWATER MANAGEMENT SUMMARY			
AREA ID.	ESDV REQUIRED CU.FT.	ESDV PROVIDED CU.FT.	REMARKS
SITE	4,644	5,269	DRY WELL (M-5) & MICRO-BIORETENTION (M-6)
TOTAL	4,644	5,269	

GROSS AREA OF SUBDIVISION = 4.99 ACRES
 AREA OF SUBMISSION = 3.30 ACRES
 LOD = 2.68 ACRES
 RCN = 58.1
 TARGET Pe = 1.16"

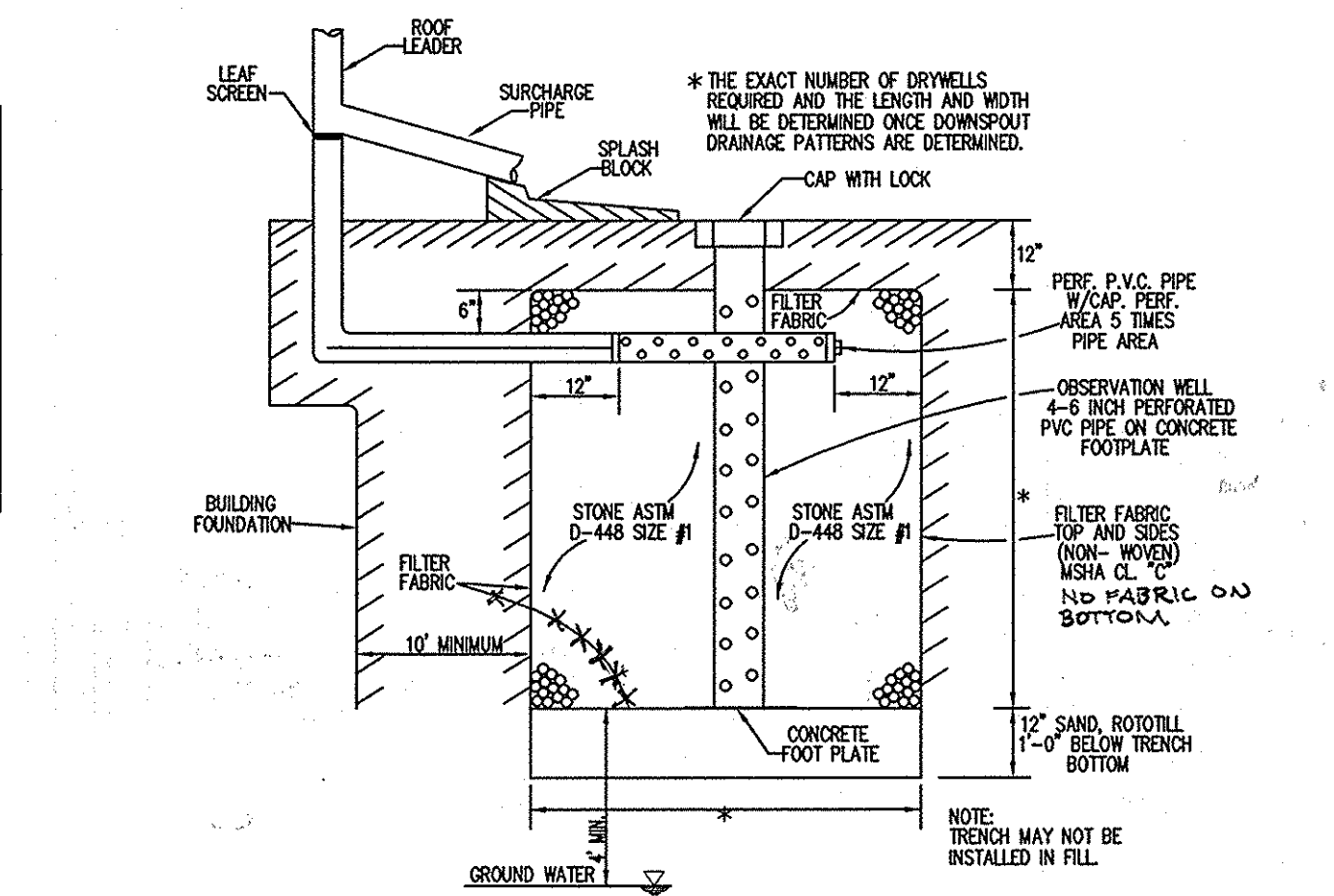
STORMWATER MANAGEMENT PRACTICES			
LOT No.	ADDRESS	DRY WELLS (NUMBER)	OFF LOT (ON OPEN SPACE) MICRO-BIORETENTION (NUMBER, FACILITY ID)
1	6303 RIVER HILL OVERLOOK DRIVE	0	2, #1 & #2
2	6307 RIVER HILL OVERLOOK DRIVE	0	2, #1 & #2
3	6311 RIVER HILL OVERLOOK DRIVE	0	1, #3
4	6315 RIVER HILL OVERLOOK DRIVE	0	1, #3
5	6319 RIVER HILL OVERLOOK DRIVE	0	2, #3 & #4
6	6323 RIVER HILL OVERLOOK DRIVE	0	2, #2 & #4
7	6327 RIVER HILL OVERLOOK DRIVE	0	2, #2 & #4
8	6331 RIVER HILL OVERLOOK DRIVE (COMMON DRIVEWAY)	0	2, #2 & #3



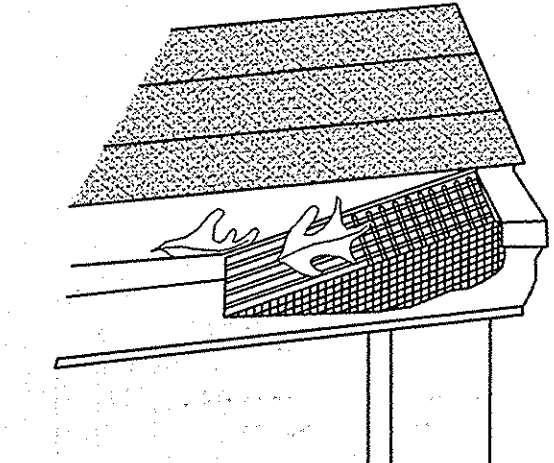
P-1 DRIVEWAY PAVING SECTION
NOT TO SCALE



12' INDIVIDUAL DRIVEWAY SECTION
NOT TO SCALE



DRY WELL DETAIL (M-5)
NOT TO SCALE



GUTTER DRAIN FILTER DETAIL
NOT TO SCALE

STORMWATER MANAGEMENT NOTES

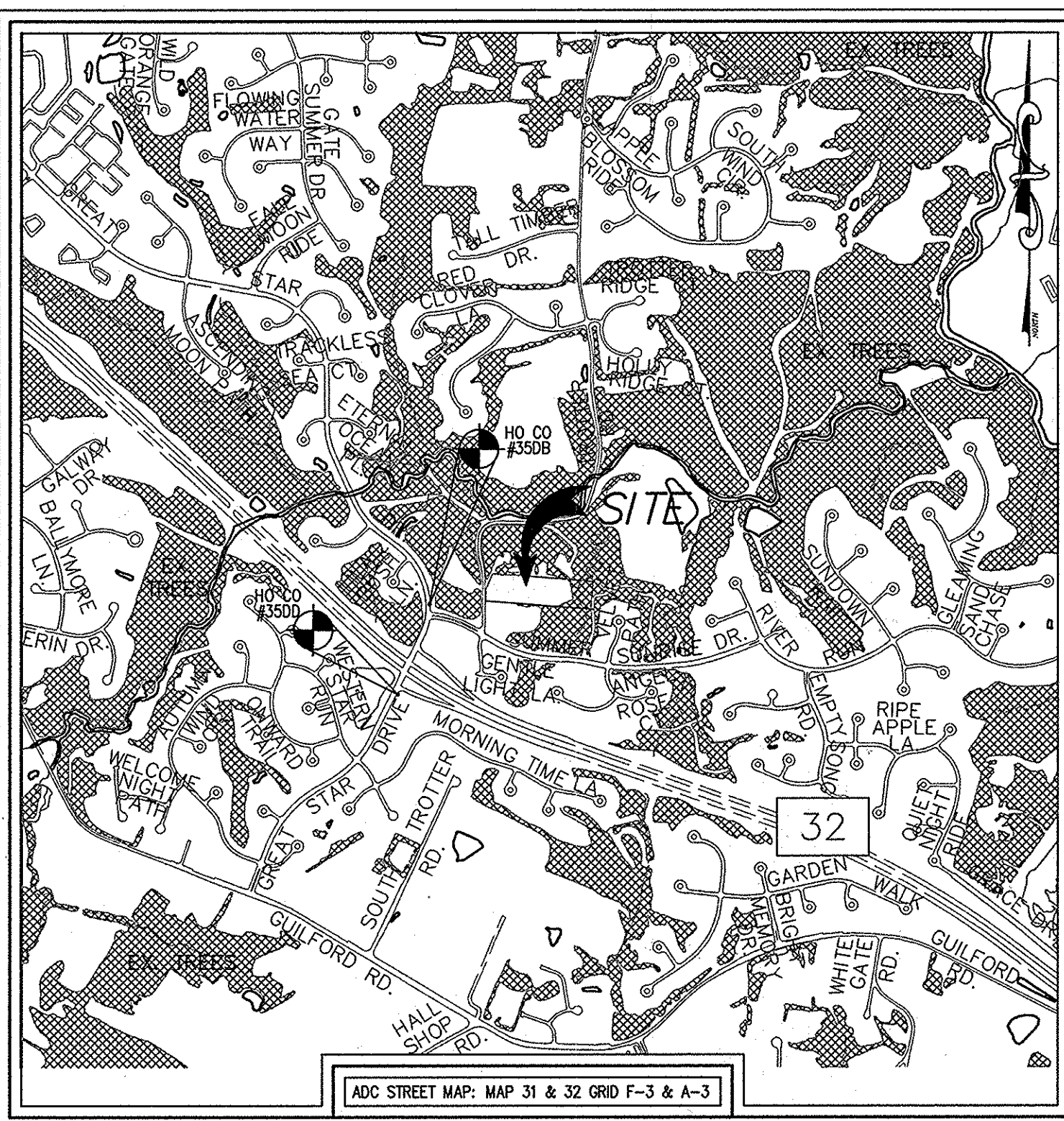
- STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHAPTER 5, "ENVIRONMENTAL SITE DESIGN" OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, EFFECTIVE MAY 4, 2010.
- MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 1,000 SQ. FT. OR LESS.
- DRYWELLS SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH OF DISCONNECTION IS LESS THAN 75' AT 5% SLOPE AND CONSTRUCTION OF THE DRYWELL SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.
- FINAL GRADING IS SHOWN ON THIS SITE DEVELOPMENT PLAN.

OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DRY WELLS (M-5)

- THE OWNER SHALL INSPECT THE MONITORING WELLS AND STRUCTURES ON A QUARTERLY BASIS AND AFTER EVERY HEAVY STORM EVENT.
- THE OWNER SHALL RECORD THE WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS OVER A PERIOD OF SEVERAL DAYS TO ENSURE TRENCH DRAINAGE.
- THE OWNER SHALL MAINTAIN A LOG BOOK TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
- WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN A SEVENTY-TWO (72) HOUR TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.
- THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
- ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION FACILITY HAVE BEEN VERIFIED, THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.

DRY WELL CHART					
NO.	AREA OF ROOF PER DOWN SPOUT	VOLUME REQUIRED	VOLUME PROVIDED	AREA OF TREATMENT	L x W x D
1	1,000 SQ. FT.	92 CF.	98 CF.	100%	7' x 7' x 5'
2	687 SQ. FT.	62 CF.	66 CF.	100%	5.75' x 5.75' x 5'

* AREA OF TREATMENT EXCEEDS THAT REQUIRED.



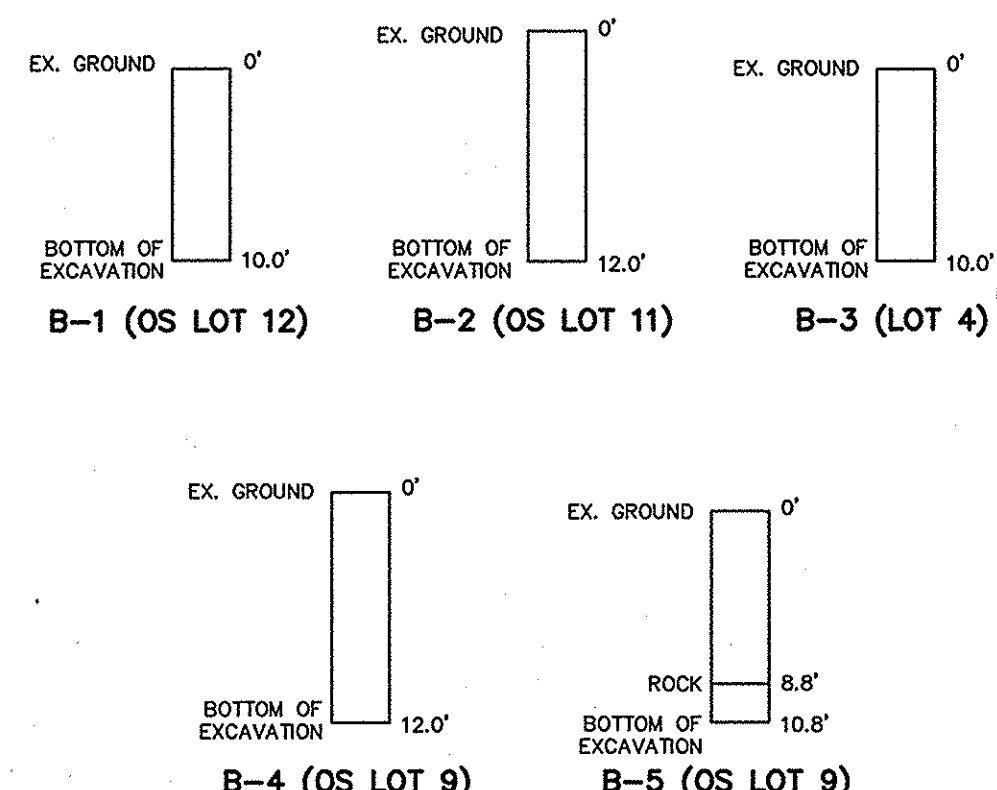
VICINITY MAP
SCALE: 1" = 1200'

BENCHMARK INFORMATION

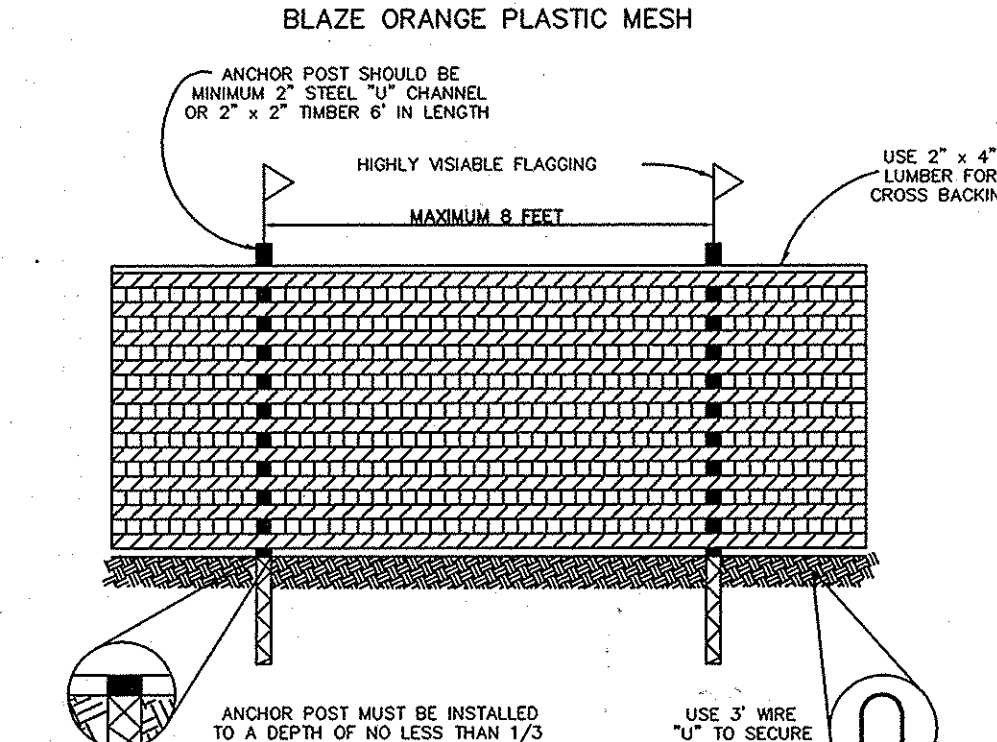
- B.M.#1 - HOWARD COUNTY CONTROL STATION #3500 - HORIZONTAL - NAD '83
 (ALONG GREAT STAR DRIVE WHERE THE EASTBOUND RAMP TO MD RT 32 TURNS OFF TO THE EAST, 52' NORTHEAST OF A BELL MANHOLE ALONG GREAT STAR DRIVE, 36.4' NORTH OF THE CORNER OF A CHAIN LINK FENCE, 10.5' NORTHWEST OF AN ELECTRIC BOX, AND 55' WEST OF A LIGHT POLE. ALONG THE EASTBOUND RAMP TO MD RT 32 FROM GREAT STAR DRIVE.)
 N 556,936.5472
 E 1,333,705.5852
 ELEVATION = 424.21 - VERTICAL - (NAVD '88)
- B.M.#2 - HOWARD COUNTY CONTROL STATION #3508 - HORIZONTAL - (NAD '83)
 (LOCATED 7.5' EAST OF THE FACE OF CURBS ALONG GREAT STAR DRIVE, 46.9' NORTH OF A LIGHT POLE NORTHEAST OF THE INTERSECTION OF GREAT STAR DRIVE AND SUMMER SUNRISE DRIVE, 21' NORTHWEST OF AN OAK TREE, AND 18' SOUTHEAST OF AN OAK TREE.)
 N 557,696.1674
 E 1,333,974.5506
 ELEVATION = 400.94 - VERTICAL - (NAVD '88)

SITE ANALYSIS DATA CHART

- TOTAL AREA OF THIS SUBDIVISION = 4.99 AC. (FROM FINAL PLANS INCLUDING OPEN SPACE).
- AREA OF THIS SUBMISSION = 3.30 AC. (LOTS 1 THRU 8 & OPEN SPACE LOTS 9, 11, & 12)
- PRESENT ZONING DESIGNATION = R-ED (PER 10/06/2013 COMPREHENSIVE ZONING PLAN)
- PROPOSED USE: RESIDENTIAL
- BUILDING COVERAGE OF SITE: N/A
- PREVIOUS HOWARD COUNTY FLEES: ECP-14-010, SP-14-001, F-15-010, PLAT #23468-23470, WP-15-115, WP-16-019.
- TOTAL AREA OF FLOODPLAIN LOCATED ON OPEN SPACE LOT 10 = 0.29 ACES
- N. TOTAL AREA OF SLOPES IN EXCESS OF 25% = 0.36 AC.
- NET TRACT AREA OF SUBDIVISION = 4.54 ACRES (TOTAL AREA LESS FLOODPLAIN AND STEEP SLOPES)
- P. TOTAL AREA OF WETLANDS (INCLUDING BUFFERS) = 0 AC.
- Q. TOTAL AREA OF FOREST = 0.86 AC. (EXCLUDES FLOODPLAIN), 0.86 ACRES PLACED IN FOREST CONSERVATION EASEMENT.
- R. TOTAL GREEN OPEN AREA = 3.21 AC. (2,505 ACRES IN OPEN SPACE LOT 9)
- S. TOTAL IMPERVIOUS AREA = 0.74 AC.
- T. DENSITY TABULATION FOR SUBDIVISION BASED ON F-15-010:
 1. NET TRACT AREA = 4.99 ACRES = 0.29 ACES = 0.36 ACES = 4.34 ACES
 2. DENSITY ALLOWED = 4.34 ACES X 2 BUILDABLE LOTS/ACRE = 8 BUILDABLE LOTS MAXIMUM.
 3. DENSITY PROPOSED = 8 BUILDABLE LOTS.
 4. MINIMUM OPEN SPACE REQUIRED = 4.54 ACES X 0.50 = 2.27 ACES
 5. OPEN SPACE PROVIDED = 2.53 ACES
 U. AREA OF PROPOSED BUILDABLE LOTS = 2.45 ACRES (106,697 SQ.FT.)
 V. PARKING REQUIRED: 2.9 SPACES PER DWELLING UNIT X 8 UNITS = 20 PARKING SPACES.
 PARKING PROVIDED: 3 SPACES PER DWELLING UNIT X 8 UNITS = 24 PARKING SPACES (2 GARAGE SPACES & 1 DRIVEWAY SPACE PER UNIT).



NOTE: NO ROCK OR WATER WAS ENCOUNTERED DURING SOIL EXCAVATIONS IN HOLES 1 THRU 4. ROCK WAS ENCOUNTERED NEAR BOTTOM OF HOLE 5. PROFILES REFLECT THE DEPTHS OF THE EXCAVATIONS CONDUCTED ON SEPTEMBER 23, 2013.



NOTE: 1. PROTECTIVE SIGNAGE ONLY.
 2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW AND FLAGGING.
 3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED PRIOR TO INSTALLING DEVICE.
 4. PROTECTIVE SIGNAGE MAY ALSO BE USED.
 5. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

ADDRESS CHART

LOT #	STREET ADDRESS
1	6303 RIVER HILL OVERLOOK DRIVE
2	6307 RIVER HILL OVERLOOK DRIVE
3	6311 RIVER HILL OVERLOOK DRIVE
4	6315 RIVER HILL OVERLOOK DRIVE
5	6319 RIVER HILL OVERLOOK DRIVE
6	6323 RIVER HILL OVERLOOK DRIVE
7	6327 RIVER HILL OVERLOOK DRIVE
8	6331 RIVER HILL OVERLOOK DRIVE

General Notes:

- SUBJECT PROPERTY IS ZONED R-ED BY THE 10/06/13 COMPREHENSIVE ZONING PLAN.
- THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY DATED OCTOBER, 2013 BY FISHER, COLLINS & CARTER, INC. THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY FISHER, COLLINS & CARTER, INC. DATED SEPTEMBER 2013 AND SUPPLEMENTED BY HOWARD COUNTY GIS TOPOGRAPHY.
- THIS PLAN AND THE COORDINATES SHOWN HEREON ARE BASED ON NAD '83, MARYLAND STATE COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEOMETRIC CONTROL STATIONS NO. 3500 AND NO. 3508.
- STA. NO. 3508 N 557,696.1674 E 1,333,974.5506 ELEV. = 400.94
 STA. NO. 3500 N 556,936.5472 E 1,333,705.5852 ELEV. = 424.21
- B.R.L. DENOTES BUILDING RESTRICTION LINE.
- ✓ DENOTES IRON PIN SET CAPPED "F.C.C. 106".
- DENOTES IRON PIPE OR IRON BAR FOUND.
- ◌ DENOTES ANGLE CHANGE IN BEARING OF BOUNDARY OR RIGHTS-OF-WAY.
- DENOTES CONCRETE MONUMENT SET WITH ALUMINUM PLATE "F.C.C. 106".
- DENOTES CONCRETE MONUMENT OR STONE FOUND.
- ALL LOT AREAS ARE MORE OR LESS (±).
- DISTANCES SHOWN ARE BASED ON SURFACE MEASUREMENT AND REDUCED TO NAD '83 GRID MEASUREMENT.
- PLAT SUBJECT TO PRIOR DEPARTMENT OF PLANNING AND ZONING FILE NOS: SP-14-001; ECP-14-010; F-15-010; PLAT #23468-23470; WP-15-115; WP-16-019.
- FOR FLAG OR PIPE STEM TIES, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPE STEM AND ROAD RIGHT-OF-WAY LINE ONLY AND NOT INTO THE FLAG OR PIPE STEM LOT DRIVEWAY.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING (MINIMUM) REQUIREMENTS:
 A) WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE);
 B) SURFACE - SIX (6) INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1 - 1/2" MINIMUM);
 C) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADIUS;
 D) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H2S-LOADING);
 E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER SURFACE;
 F) STRUCTURE CLEARANCES - MINIMUM 12 FEET;
 G) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
- EXISTING UTILITIES ARE BASED UPON FIELD LOCATION OF UTILITY MARKINGS IN JUNE, 2013.
- THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- SITE IS ADJACENT TO A SCENIC ROAD.
- NO GEOMETRY OR HISTORIC STRUCTURES EXIST WITHIN THE LIMITS OF THIS PLAT SUBMISSION.
- THIS SUBDIVISION IS SUBJECT TO SECTION 18.1222 OF THE HOWARD COUNTY CODE. PUBLIC WATER AND SEWER SERVICE HAS BEEN GRANTED UNDER THE TERMS AND PROVISIONS OF THE INTERIM EFFECTIVE ON DATE THE DEVELOPER'S AGREEMENT IS FILED AND ACCEPTED. WATER AND SEWER IS PROVIDED UNDER CONTRACT NO. 24-4831-0.
- THE NON-CRITICAL FLOODPLAIN STUDY FOR THIS PROJECT WAS PREPARED BY FISHER, COLLINS & CARTER, INC. DATED OCTOBER 2013 AND APPROVED ON DECEMBER 12, 2013 UNDER F-15-010.
- THERE ARE NO WETLANDS ON THIS SITE PER INVESTIGATION BY ECO-SCIENCE PROFESSIONALS, INC. DATED JULY, 2013. WETLAND BUFFER AREAS SHOWN HEREON ARE BASED ON WETLANDS LIMITS PER PLATS OF CRICKET CREEK SUBDIVISION, F-05-043, PLAT NOS. 17718 THRU 17721.
- FOREST STAND DELINEATION PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED JULY, 2013 UNDER F-15-010.
- STEEP SLOPES, STREAM AND ITS BUFFERED WETLAND BUFFER, AND 100 YEAR FLOODPLAIN EXIST ON-SITE.
- NO CLEARING, GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF STREAM BUFFERS AND FOREST CONSERVATION EASEMENT AREAS.
- THE FOREST STUDY WAS PREPARED BY MARK GROUP, AND WAS APPROVED ON DECEMBER 12, 2013 UNDER F-15-010.
- NO GEOTECHNICAL STUDY IS REQUIRED FOR THIS PROJECT. EXCAVATIONS TO VERIFY DEPTH TO ROCK AND WATER WERE CONDUCTED ON SEPTEMBER 23, 2013.
- ON DECEMBER 12, 2013 APPROVAL WAS GRANTED FOR A WAIVER FROM DESIGN MANUAL, VOLUME III, SECTION 2.6.A, WHICH ALLOWS NO MORE THAN 6 LOTS ON A USE-IN-COMMON DRIVEWAY TO ALLOW 9 LOTS UNDER SP-14-001.
- STORMWATER MANAGEMENT IS IN ACCORDANCE WITH THE M.D.E. STORMWATER DESIGN MANUAL, VOLUMES I & II, REVISED 2008. NON-STRUCTURAL PRACTICES (FOUR (4) MICRO-BIORETENTION FACILITIES (M-5) AND TWO (2) DRYWELLS (M-5)) IN ACCORDANCE WITH CHAPTER 5 ARE BEING UTILIZED. THESE PRACTICES SHALL BE PRIVATELY OWNED AND MAINTAINED IN ACCORDANCE WITH THE OPERATIONS AND MAINTENANCE SCHEDULES FOR PRIVATELY OWNED AND MAINTAINED DRYWELLS (M-5) AND MICRO-BIORETENTION FACILITIES (M-5).
- ENCROACHMENT INTO THE 100' STREAM BUFFER FOR THE EXTENSION OF THE SEWER MAIN AND EASEMENT IS CONSIDERED ESSENTIAL DISTURBANCE BY DPZ PER SECTION 16.116(C)(I) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
- ARTICLES OF INCORPORATION FOR THE RIVER HILL OVERLOOK HOMEOWNERS ASSOCIATION, INC. WILL BE FILED WITH THE MARYLAND STATE DEPARTMENT OF ASSESSMENTS AND TAXATION PRIOR TO SUBMISSION OF RECORD PLAT ORIGINALS.
- THE FOREST CONSERVATION EASEMENT PER SECTION 18.1222 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION MANUAL FOR THIS SUBDIVISION HAS BEEN FULFILLED BY ON-SITE RETENTION OF 0.86 ACRES OF FOREST (RETENTION) UNDER F-15-010.
- A LANDSCAPE SURVEY IN THE AMOUNT OF \$2,310.00 FOR PERMETER LANDSCAPE REQUIREMENTS (1) SHADE TREE, (2) EVERGREEN TREES AND (7) SHRUBS OF 22.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL WAS POSTED WITH THE FINAL PLAN DEVELOPER'S AGREEMENT FOR THIS SUBDIVISION UNDER F-15-010. LANDSCAPE SURVEY IN THE AMOUNT OF \$600 FOR PROTECTION AREAS WAS PROVIDED UNDER F-15-010. LANDSCAPE SHALL BE MAINTAINED AS PART OF THE BUILDERS GRADING PERMIT FOR LOT 3.
- THIS SUBDIVISION IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THE 24' PRIVATE DRIVEWAY EASEMENT AND MAINTENANCE AGREEMENT FOR THE REPAIR OF LOTS 1 THRU 8 WAS RECORDED SIMULTANEOUSLY WITH THE RECORDATION OF THE PLAT. THE PRIVATE PEDESTRIAN ACCESS EASEMENT FOR THE USE AND BENEFIT OF LOTS 1 THRU 8 ALSO WAS RECORDED SIMULTANEOUSLY WITH THE PLAT.
- A PRE-SUBMISSION COMMUNITY MEETING WAS HELD ON JULY 23, 2013 AT THE HOWARD COUNTY COMMUNITY CENTER.
- OPEN SPACE LOTS 9, 11 AND 12 WAS CONVEYED TO THE RIVER HILL OVERLOOK HOMEOWNERS ASSOCIATION, INC. MULTANEOUSLY WITH THE FINAL PLAT RECORDATION.
- OPEN SPACE LOT 10 WAS CONVEYED TO HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS SIMULTANEOUSLY WITH THE FINAL PLAT RECORDATION.
- EXISTING HOUSES AND ACCESSORY STRUCTURES TO BE REMOVED.
- THE LOTS CREATED BY THE SUBDIVISION PLAT ARE SUBJECT TO A FEE OR ASSESSMENT TO COVER OR DEFRAY ALL OR PART OF THE DEVELOPER'S COST OF THE INSTALLATION OF THE WATER AND SEWER FACILITIES, PURSUANT TO THE HOWARD COUNTY CODE, SECTION 18.12. THIS FEE OR ASSESSMENT SHALL BE PAID BY THE DEVELOPER AND THE FOREST OBLIGATION BETWEEN THE DEVELOPER AND EACH OWNER OF THIS PROPERTY AND IS NOT IN ANY WAY A FEE OR ASSESSMENT OF HOWARD COUNTY.
- TRASH AND RECYCLABLES COLLECTION WILL BE AT TROTTER ROAD WITHIN 5' OF THE COUNTY ROADWAY. TRASH / REUSE COLLECTION PAD WILL BE MAINTAINED BY THE PROPERTY OWNERS (IF AN HOA) IS NOT PROPOSED. THE MAINTENANCE OF THIS COLLECTION PAD SHALL BE REFERENCED IN THE PRIVATE USE-IN-COMMON ACCESS AGREEMENT. NO HISTORIC STRUCTURES EXIST ON THIS SITE BASED ON THE HOWARD COUNTY HISTORIC SITE INVENTORY LIST.
- DRIVEWAYS FOR LOTS 1 THRU 8 SHALL BE PROVIDED IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAIL R-6.06 IN THE 2013 DESIGN MANUAL.
- SOILS INFORMATION BASED ON NRCS WEB SOIL SURVEY FOR HOWARD COUNTY, MARYLAND.
- ADDITIONAL INFORMATION IS AVAILABLE FROM THE MARYLAND DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES. PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1815 (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- IN ACCORDANCE WITH SECTION 4.02 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 STATE HIGHWAY ADMINISTRATION 410.531.5533
 BSE(CONTRACTOR SERVICES) 410.850.4620
 BSE(UNDERGROUND DAMAGE CONTROL) 410.787.9068
 MISS UTILITY 1.800.257.7777
 COLONIAL PIPELINE COMPANY 410.795.1350
 HOWARD COUNTY, DEPT. OF PUBLIC WORKS, BUREAU OF UTILITIES 410.315.4900
 HOWARD COUNTY HEALTH DEPARTMENT 410.315.2640
 A&T 1.800.252.1133
 VERIZON 1.800.743.0033/410.224.9210
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- THIS PLAN IS SUBJECT TO WP-16-019 WHICH THE PLANNING DIRECTOR APPROVED ON SEPTEMBER 9, 2015 TO WAIVE SECTION 16.1205(G)(7) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, WHICH STATES THAT ON-SITE RETENTION OF 30% IN DRINKING WATER TREES AS CONSERVED PRIORITY FOR ON-SITE RETENTION AND PROTECTION. APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:
 (1) THE DEVELOPER / BUILDER SHALL PLANT A TOTAL OF TWO (2) 2 1/2" CALIPER SHADE TREES AS REPLACEMENT MITIGATION FOR REMOVAL OF THE (1) 2 1/2" CALIPER SHADE TREE.
 (2) THE PROPOSED LOCATION OF THESE TREES SHALL BE INCORPORATED INTO THE SITE DEVELOPMENT PLAN DESIGN (SP-15-080).
 (3) APPLICABLE LANDSCAPE NOTES, SCHEDULES, CHARTS, AND PLANTING DETAILS SHALL BE SHOWN ON THE SDP.
 (4) AN INSPECTION FEE SHALL BE PAID AT THE TIME OF SUBMISSION OF THE ORIGINAL MYLAR SDP AND FINANCIAL SURETY FOR THE INSTALLATION OF THESE TREES SHALL BE POSTED AT THE TIME OF APPLICATION FOR THE GRADING PERMIT FOR LOT 3.
- ON ALL SUBSEQUENT PLANS AND PLATS, PROVIDE A BRIEF DESCRIPTION OF THE WAIVER PETITION, WP-16-019, AS A STANDARD NOTE TO INCLUDE REQUESTS, SECTIONS OF THE REGULATIONS, ACTION, AND DATE.
- THIS PLAN IS SUBJECT TO APPROVAL OF A REQUEST FOR WAIVER TO GRAVITY SEWER SERVICES FOR THE BASEMENT SEWER SERVICE FOR LOTS 1 & 8 AND ENCROACHMENT INTO 10 FOOT STRUCTURAL SETBACK OF UTILITY EASEMENT DATED SEPTEMBER 21, 2015. WAIVER DENIALS / APPROVALS ISSUED AS FOLLOWS:
 (1) FIRST FLOOR ONLY GRAVITY SEWER SERVICES FOR LOTS 1 & 8 TO PREVENT AN EXCESSIVELY DEEP SEWER WAS APPROVED.
 (2) LOT 4 BUILDING CORNER CLEARANCE OF 5.5 FEET AND 7.1 FEET WITH THE SEWER DEPTH OF 23.5 FEET WAS NOT APPROVED.
 (3) LOT 5 BUILDING CORNER CLEARANCE OF 4.3 FEET WITH THE SEWER DEPTH OF 24 FEET WAS NOT APPROVED.
 (4) LOT 8 BUILDING CORNER CLEARANCE OF 5.3 FEET AND 6.8 FEET WITH THE SEWER DEPTH BETWEEN 6 TO 11 FEET WAS APPROVED.

Please Note That Lots 2 Thru 8 In This Subdivision Are Subject To The Moderate Income Housing Unit (MLHU) Fee-In-Lieu Requirement That Is To Be Calculated And Paid To The Department Of Inspections Licenses And Permits At The Time Of Building Permit Issuance By The Permit Applicant. Lot 1 Is Exempt.

DESIGN BY:
 DRAWN BY:
 CHECKED BY:

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PARK
 CLUETT CITY, MARYLAND 21042
 (410) 481 - 2855

DATE	DESCRIPTION	REVISION BLOCK

PROFESSIONAL CERTIFICATION
 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 NO. 38386, EXPIRATION DATE: 01/12/2016.

Sybilanne Tuite 11/5/15
 Sybilanne Tuite Date

OWNERS
 RIVER HILL OVERLOOK, LLC
 5034 DORSEY HALL DRIVE
 ELLICOTT CITY, MARYLAND 21042
 ATTN: DOUG DIERNINGER & RICHARD DEMMITT

BUILDER
 NV HOMES
 9720 PATUXENT WOODS DRIVE
 COLUMBIA, MARYLAND 21046
 410-379-5956
 ATTN: RYAN JOHNSON

APPROVED: DEPARTMENT OF PLANNING AND ZONING

William J. Miller
 Director - Department of Planning and Zoning
 12-10-15
 Date

Ke. A. Chelover
 Chief, Division of Land Development
 12-10-15
 Date

John E. ...
 Chief, Development Engineering Division
 12-7-15
 Date

TITLE SHEET

RIVER HILL OVERLOOK,
 LOTS 1 THRU 8 AND OPEN SPACE LOTS 9, 11, & 12
 ZONED R-ED

TAX MAP No. 35 GRID No. 8 PARCEL NO. 66
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: NOVEMBER, 2015
 SHEET 1 OF 5

SDP-15-080

SPECIMEN TREE TABLE				
KEY	SPECIES, SIZE (DBH)	CRZ (FT)	CONDITION	COMMENT
A	NORWAY MAPLE, 45"	67.5	GOOD CONDITION	NOT NATIVE, TO BE REMOVED
B	SLIPPERY ELM, 44.5"	66.75	GOOD CONDITION	TO REMAIN
C	RED MAPLE, 34.5"	51.75	GOOD CONDITION	TO REMAIN

SWM SUMMARY CHART	
AREA ID	SWM TREATMENT PROVIDED
LOT 1	MICRO-BIORETENTION 1 (M-6)
LOT 2	MICRO-BIORETENTION 1 & 2 (M-6)
LOT 3	MICRO-BIORETENTION 1 & 2 (M-6)
LOT 4	MICRO-BIORETENTION 3 (M-6) & DRYWELLS (M-5)
LOT 5	MICRO-BIORETENTION 3 (M-6)
LOT 6	MICRO-BIORETENTION 3 & 4 (M-6)
LOT 7	MICRO-BIORETENTION 2 & 4 (M-6)
LOT 8	MICRO-BIORETENTION 2 (M-6)

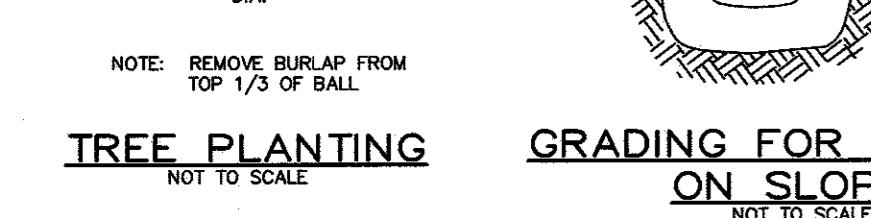
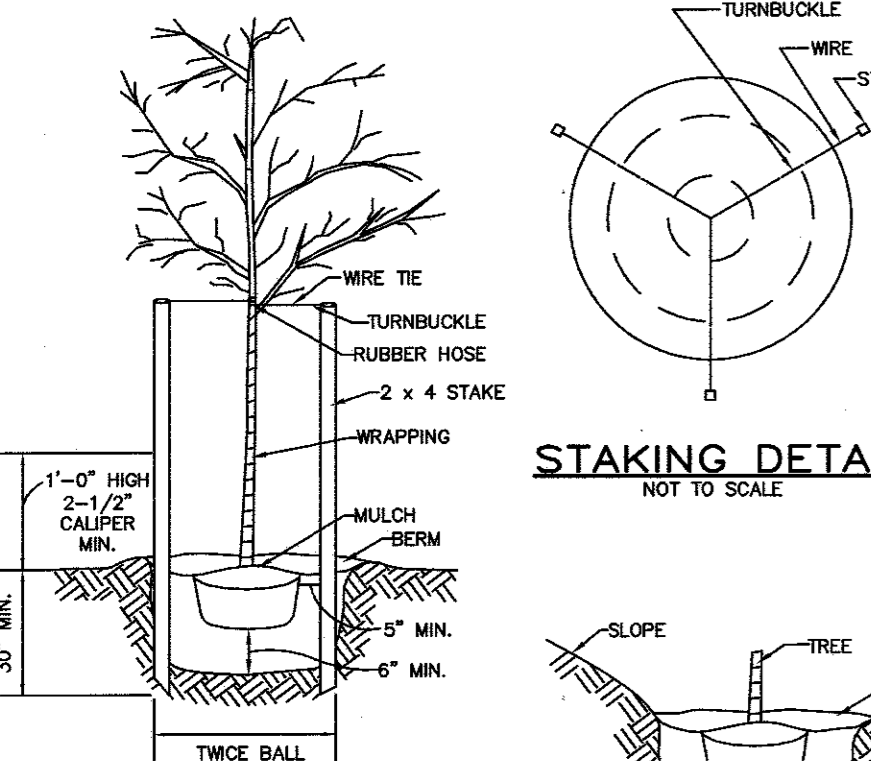
STORMWATER MANAGEMENT SUMMARY CHART
 AREA OF SUBDIVISION = 4.99 ACRES (FROM FINAL PLANS)
 AREA OF SUBMISSION = 3.30 ACRES
 RON = 58.1
 TARGET PE = 1.16"

- NOTE:
- ALL DRIVEWAYS SHALL PROVIDE PARKING FOR AT LEAST ONE VEHICLE AND BE AT LEAST 18 FEET LONG AS MEASURED FROM THE GARAGE OR END OF THE PARKING PAD TO THE EDGE OF FLOWLINE OF THE CURB.
 - MICRO-BIORETENTION FACILITIES TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOA.
 - LANDSCAPE SURETY IN THE AMOUNT OF \$600 FOR TWO (2) REPLACEMENT SHADE TREES AS REQUIRED BY APPROVAL OF WP-16-019, SHALL BE POSTED AS PART OF THE BUILDERS GRADING PERMIT FOR LOT 3.

LANDSCAPING PLANT LIST			
QTY.	KEY	NAME	SIZE
2	(Symbol)	TILIA CODATA 'GREENSPIRE' (GREENSPIRE LITTLELEAF LINDEN)	2.5"-3" CAL. FULL CROWN, B&B

TOTAL: 2 SHADE TREES

SCHEDULE A - PERIMETER LANDSCAPE EDGE		
CATEGORY	SPECIMEN TREE REPLACEMENTS (WP-16-019)	TOTAL
LANDSCAPE TYPE	N/A	
LINEAR FEET OF PERIMETER	N/A	
NUMBER OF PLANTS REQUIRED		
SHADE TREES	2	2
CREDIT FOR EXISTING VEGETATION		
SHADE TREES	0	0
SMALL/MEDIUM DECIDUOUS TREES (2:1 SUBSTITUTION)	0	0
NUMBER OF PLANTS PROVIDED		
SHADE TREES	2	2
SMALL/MEDIUM DECIDUOUS TREES (2:1 SUBSTITUTION)	0	0
SHRUBS	0	0



DESIGN BY:
 DRAWN BY:
 CHECKED BY:

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 401 - 2055

VILLAGE OF RIVER HILL
 SEC 2 AREA 5
 OPEN SPACE LOT 31
 PLATS # 11934-11936
 ZONED: NT

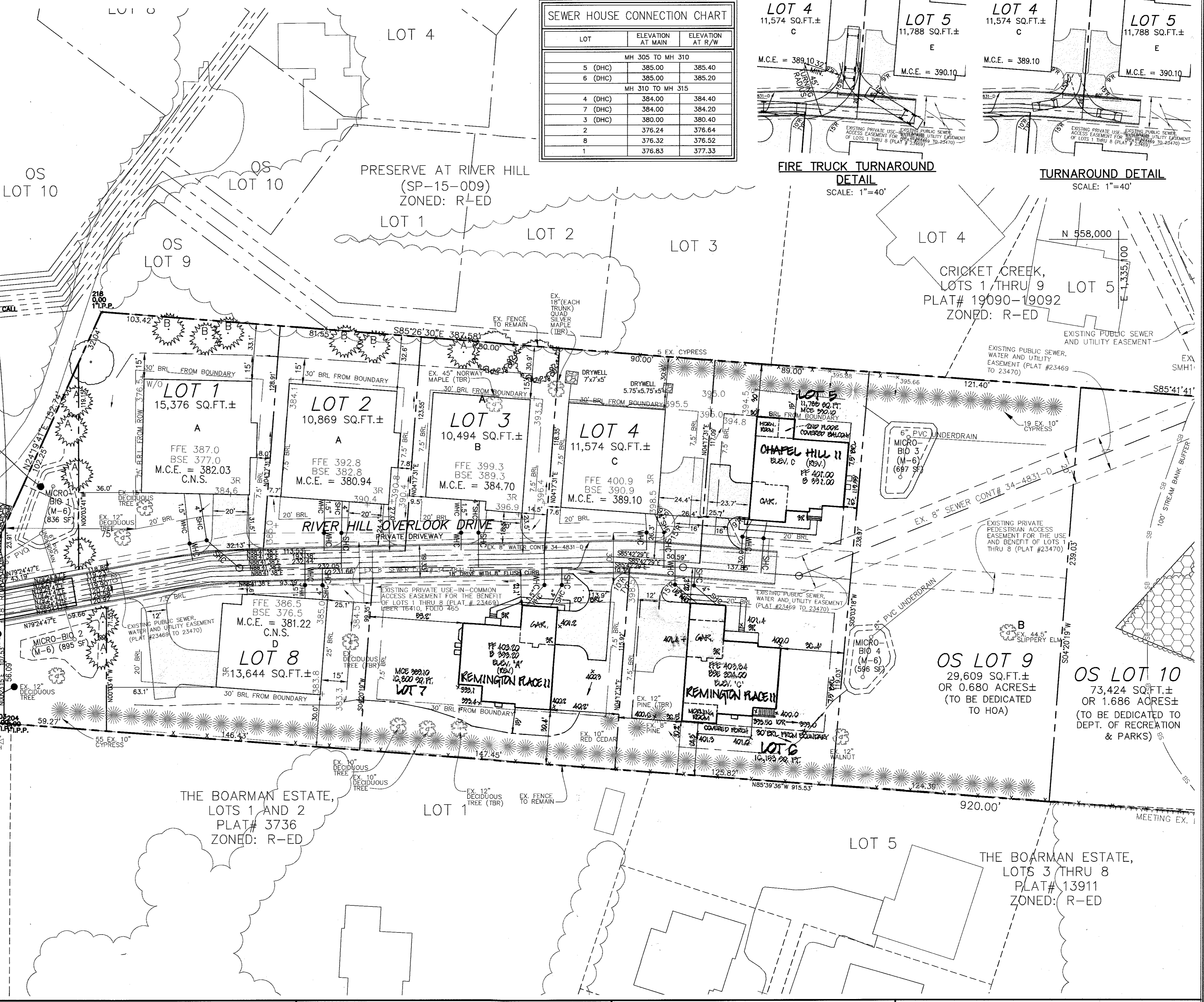
TROTTER PINES
 LOTS 1 THRU 4 * OPEN
 SPACE LOTS 5&6
 PLAT # 19149
 ZONED: R-ED

VILLAGE OF RIVER HILL
 SEC 2 AREA 5
 OPEN SPACE LOT 31
 PLATS # 11934-11936
 ZONED: NT

TROTTER ROAD
 (PUBLIC LOCAL SCENIC ROAD)

PROFESSIONAL CERTIFICATION
 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 NO. 38386, EXPIRATION DATE: 01/12/2016.

Stephanie Tute
 Date: 11/5/15



APPROVED: DEPARTMENT OF PLANNING AND ZONING

Valerie Yalici
 Director - Department of Planning and Zoning
 Date: 12-10-15

Stephanie Tute
 Chief, Division of Land Development
 Date: 12-10-15

John Smith
 Chief, Development Engineering Division
 Date: 12-9-15

OWNERS
 RIVER HILL OVERLOOK, LLC
 5034 DORSEY HALL DRIVE
 ELLICOTT CITY, MARYLAND 21042
 410-740-0522
 ATTN: DOUG DIERINGER & RICHARD DEMMITT

BUILDER
 NY HOMES
 9720 PATUXENT WOODS DRIVE
 COLUMBIA, MARYLAND 21046
 410-379-5956
 ATTN: RYAN JOHNSON

SCALE: 1" = 30'

SITE DEVELOPMENT PLAN

RIVER HILL OVERLOOK,
 LOTS 1 THRU 8 AND OPEN SPACE LOTS 9, 11, & 12
 ZONED R-ED
 TAX MAP No. 35 GRID No. 8 PARCEL No. 66
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: NOVEMBER, 2015
 SHEET 2 OF 5

DATE: 12-10-15

DATE: 12-10-15

DATE: 12-9-15

DATE: 12-10-15

DATE: 12-10-15

DATE: 12-9-15

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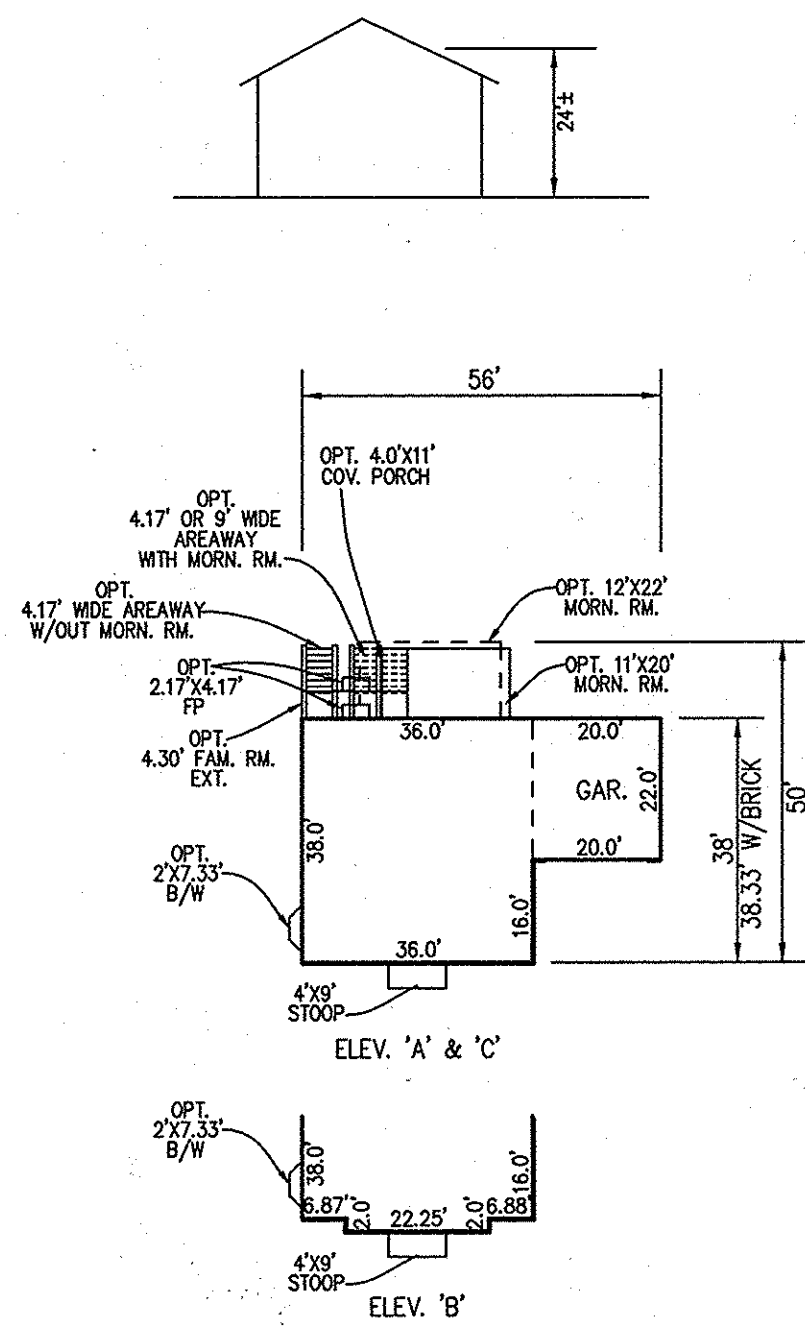
APPROVED: DEPARTMENT OF PLANNING AND ZONING

Valerie Yalici
 Director - Department of Planning and Zoning
 Date: 12-10-15

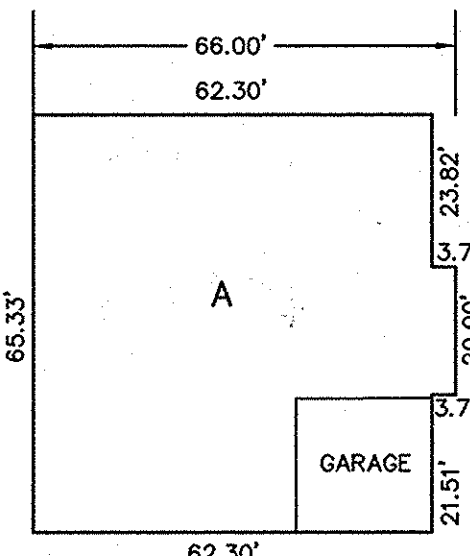
Stephanie Tute
 Chief, Division of Land Development
 Date: 12-10-15

John Smith
 Chief, Development Engineering Division
 Date: 12-9-15

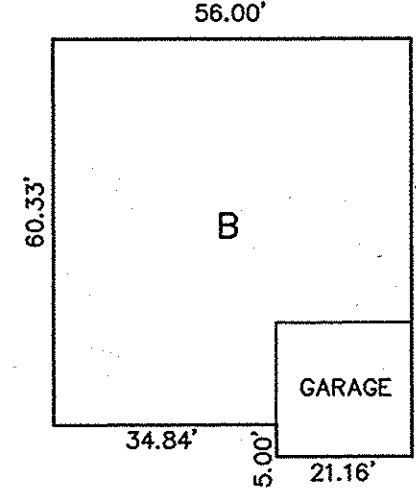
SCALE: 1" = 30'



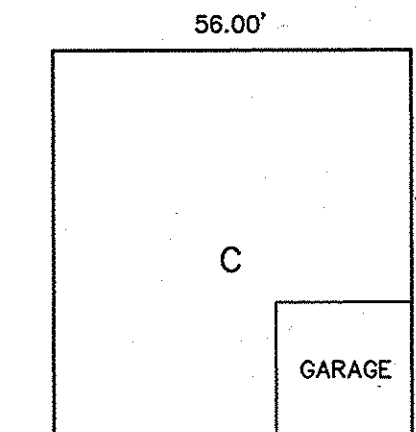
BEACONSFIELD
MAX MODEL SIZE 2,532 SQ.FT.



BEACONSFIELD - ALL OPTIONS
CHAPEL HILL II - NO 3-CAR SIDELOAD GARAGE
EMPRESS II - NO 3-CAR SIDELOAD OR 1-CAR GARAGE
KENNEDY - ALL OPTIONS
REMINGTON PLACE II - NO 3-CAR SIDELOAD GARAGE WITH REAR MORNING ROOM OR 4' FAMILY ROOM EXTENSION & NO 1-CAR GARAGE



BEACONSFIELD - ALL OPTIONS
CHAPEL HILL II - NO OPTIONAL 1-CAR FRONTLOAD GARAGE & NO 3-CAR SIDELOAD GARAGE
EMPRESS II - NO 3-CAR SIDELOAD OR 1-CAR GARAGE
KENNEDY - ALL OPTIONS
REMINGTON PLACE II - NO REAR COVERED PORCH WITH MORNING ROOM, COVERED PORCH, OR 4' FAMILY ROOM EXTENSION & NO 1-CAR GARAGE

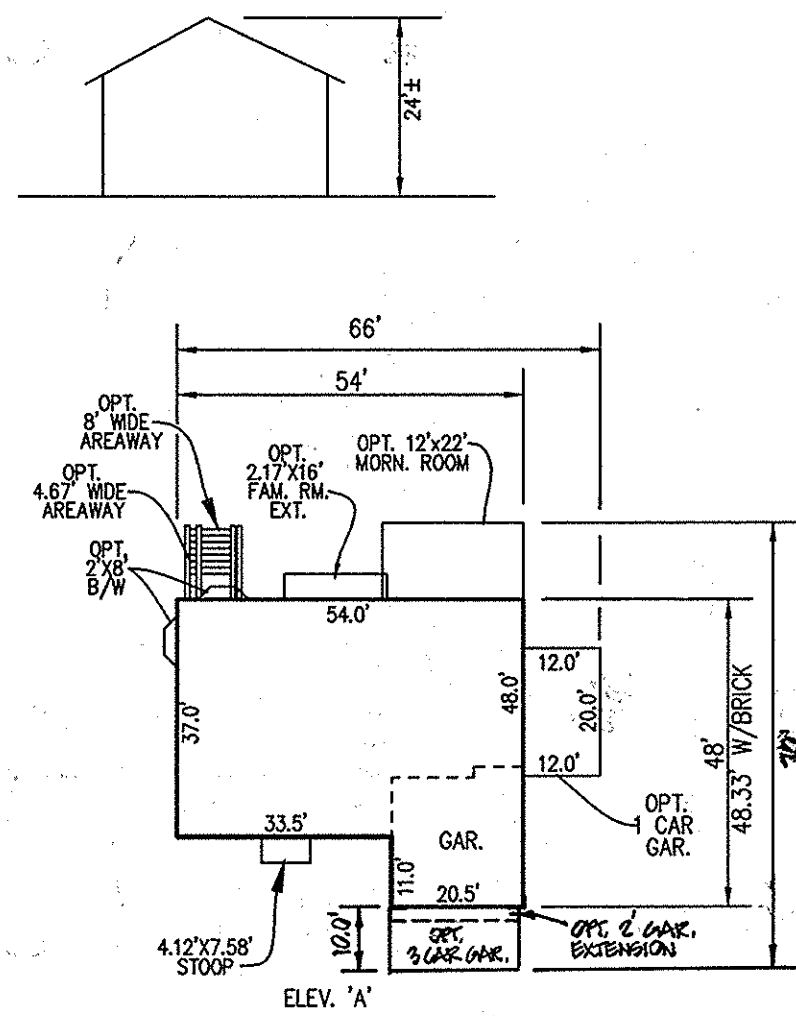


BEACONSFIELD - ALL OPTIONS
CHAPEL HILL II - NO OPTIONAL 1-CAR FRONTLOAD GARAGE & NO 3-CAR SIDELOAD GARAGE
EMPRESS II - NO 3-CAR SIDELOAD OR 1-CAR GARAGE
KENNEDY - ALL OPTIONS
REMINGTON PLACE II - NO REAR COVERED PORCH & NO 3-CAR SIDELOAD GARAGE & NO 1-CAR GARAGE

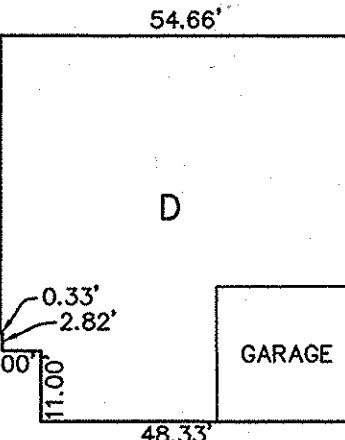
GENERIC BOXES

SCALE: 1" = 30'

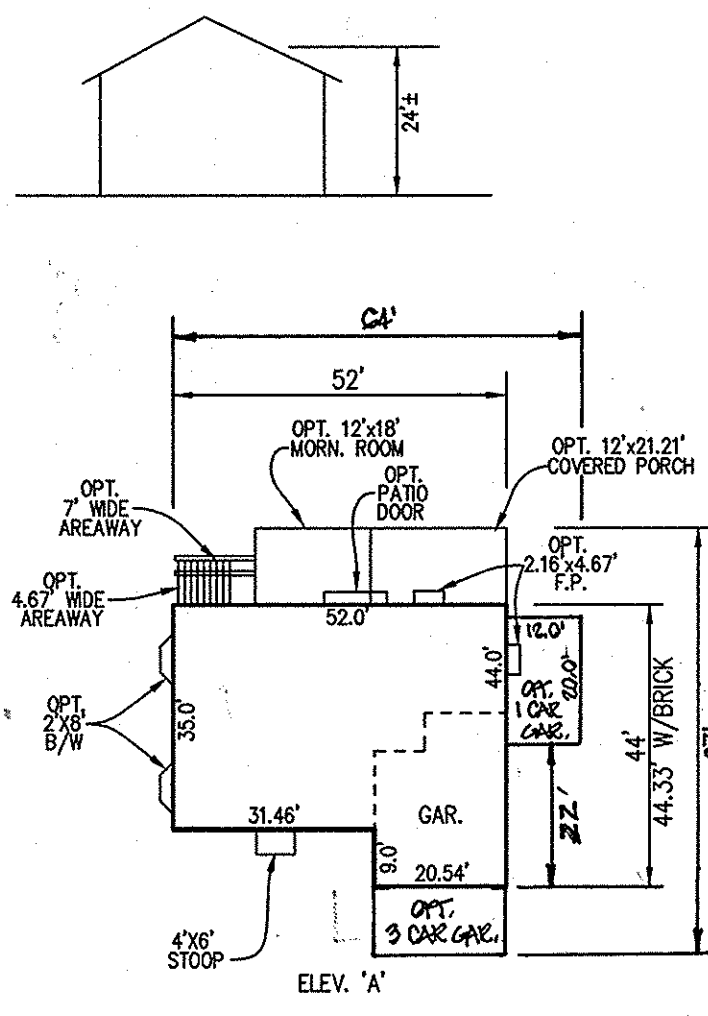
NOTE: THE MAXIMUM MODEL SIZE OF 3,039 SQ.FT. HAS BEEN USED FOR THE IMPERVIOUS ROOFTOP FOR EACH HOUSE FOR STORMWATER MANAGEMENT SIZING. SHOULD HOUSE MODELS OR ADDITIONAL OPTIONS BE ADDED TO THE MODELS ON THIS SHEET, SWM WILL BE REQUIRED TO REEVALUATED.



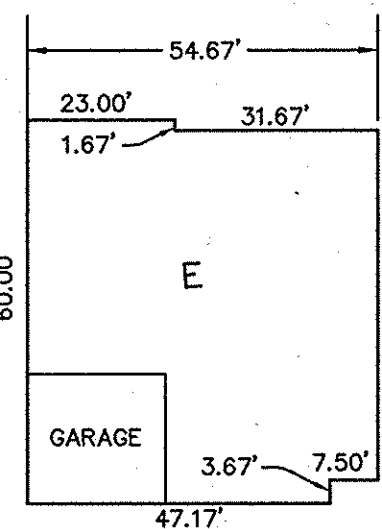
CHAPEL HILL II
MAX MODEL SIZE 2,857 SQ.FT.



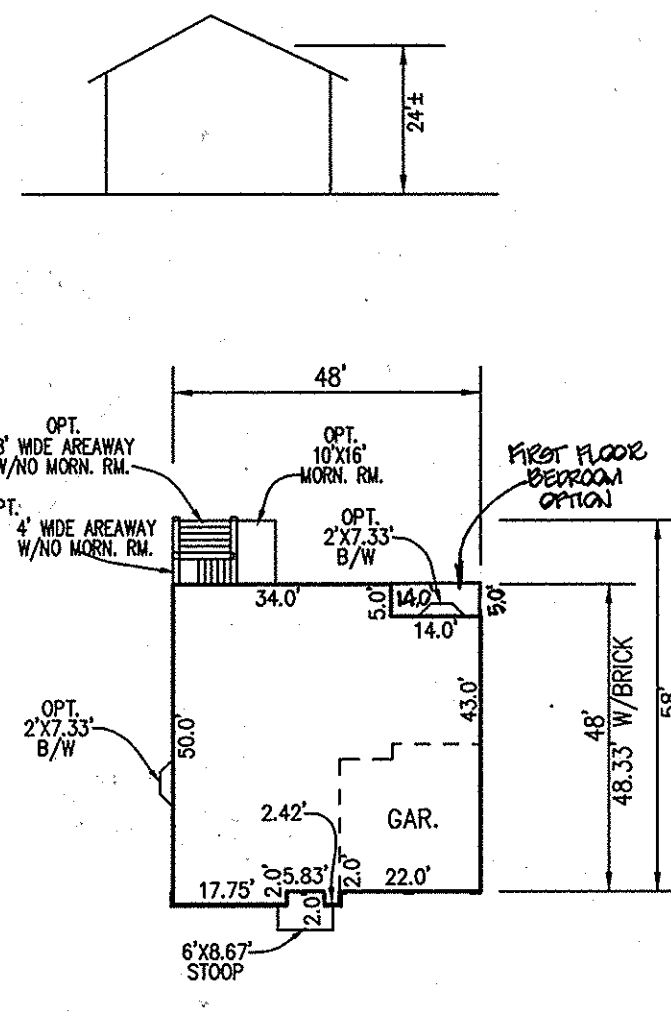
BEACONSFIELD - DOES NOT FIT
CHAPEL HILL II - NO OPTIONAL 1-CAR FRONTLOAD GARAGE & NO 3-CAR SIDELOAD GARAGE
EMPRESS II - NO 3-CAR SIDELOAD OR 1-CAR GARAGE
KENNEDY - ALL OPTIONS
REMINGTON PLACE II - NO REAR COVERED PORCH & NO 3-CAR SIDELOAD GARAGE & NO 1-CAR GARAGE



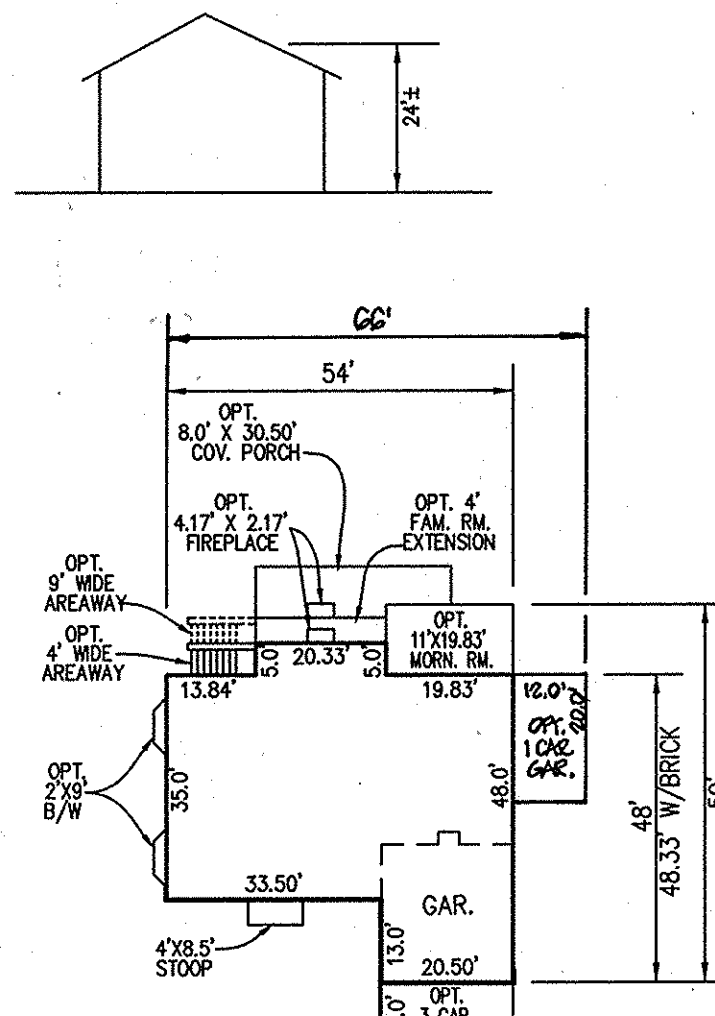
EMPRESS II
MAX MODEL SIZE 2,727 SQ.FT.



BEACONSFIELD - DOES NOT FIT
CHAPEL HILL II - NO OPTIONAL 1-CAR FRONTLOAD GARAGE & NO 3-CAR SIDELOAD GARAGE
EMPRESS II - NO 3-CAR SIDELOAD OR 1-CAR GARAGE
KENNEDY - ALL OPTIONS
REMINGTON PLACE II - NO REAR COVERED PORCH & NO 3-CAR SIDELOAD GARAGE & NO 1-CAR GARAGE



KENNEDY
MAX MODEL SIZE 2,654 SQ.FT.



REMINGTON PLACE II
MAX MODEL SIZE 3,039 SQ.FT.

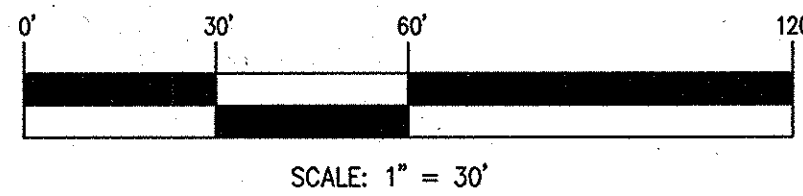
DESIGN BY:
DRAWN BY:
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FISHER, COLLINS & CARTER, INC.
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PENTAGON SQUARE OFFICE PARK - 10722 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461-2885

DATE	DESCRIPTION	REVISION	BLOCK
2/10/16	ADD 3-CAR OPTION TO CHAPEL HILL II, 3-CAR OPTION TO EMPRESS II, FRONT FLOOR BEDROOM OPTION TO KENNEDY & 1-CAR OPTION TO REMINGTON PLACE II		

PROFESSIONAL CERTIFICATION
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 NO. 38366, EXPIRATION DATE: 01/12/2016.

Stephanie Tuite 11/5/15
STEPHANIE TUITE Date



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COLUMBIA, MARYLAND 21046
410-379-5956
ATTN: RYAN JOHNSON

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Nadine Jalic 12-10-15
Director - Department of Planning and Zoning Date

Robert Schumacher 12-10-15
Chief, Division of Land Development Date

John Smith 12-7-15
Chief, Development Engineering Division Date

SUBDIVISION	SECTION/AREA	LOT NO.			
RIVER HILL OVERLOOK	N/A	1 THRU 8, OS 9,11,12			
PLAT NO.	BLOCK NO.	ZONE	FAX/PARCEL	ELEC. DIST.	CENSUS TR.
23468-23470	8	R-ED	35/66	FIFTH	605505

HOUSE MODELS

RIVER HILL OVERLOOK,
LOTS 1 THRU 8 AND OPEN SPACE LOTS 9, 11, & 12
ZONED R-ED
TAX MAP No. 35 GRID No. 8 PARCEL No. 66
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: NOVEMBER, 2015
SHEET 3 OF 5

SDP-15-080

SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS (B-4-2)

- A. Soil Preparation**
- Temporary Stabilization**
 - Seeded preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or tillage implements on construction equipment. After the soil is loosened, it must be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with rigid turning parallel to the contour of the slope.
 - Apply fertilizer and lime as prescribed on the plans.
 - Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means.
 - Permanent Stabilization**
 - A soil test is required for any natural disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:
 - Soil pH between 6.0 and 7.0.
 - Soluble salts less than 500 parts per million (ppm).
 - Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: If topsoil is to be placed, then a sandy soil (less than 30 percent silt plus clay) would be acceptable.
 - Soil contains 1.5 percent minimum organic matter by weight.
 - Soil contains sufficient pore space to permit adequate root penetration.
 - Application of amendments or topsoil is required if on-site soils do not meet the above conditions.
 - Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.
 - Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test.

- B. Topsoiling**
- Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for native plant species and to provide a soil of good seed application. Topsoil must be suitable to plants, and/or unacceptable soil gradation.
 - Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profiles published in the Soil Survey Manual.
 - Topsoiling is limited to areas having 2:1 or flatter slopes where:
 - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
 - The original soil to be vegetated contains material toxic to plant growth.
 - The soil is so acidic that treatment with limestone is not feasible.
 - Areas having slopes steeper than 2:1 require special consideration and design.
- Topsoil Specifications:** Soil to be used as topsoil must meet the following criteria:
- Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2 inches in diameter.
 - Topsoil must be free of noxious plants or plant parts such as Bermuda grass, Johnson grass, nut sedge, poison ivy, distyle, or others as specified.
 - Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate authority, may be used in lieu of natural topsoil.
- Topsoil Application**
- Erosion and sediment control practices must be maintained when applying topsoil.
 - Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 inches. Spreading is to be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations must be corrected in order to prevent the formation of depressions or water pockets.
 - Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

- C. Soil Amendments (Fertilizer and Lime Specifications)**
- Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed soils. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.
 - Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Fertilizers must be delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warranty of the producer. Fertilizers must be ground limestone (hydrated or burnt lime) may be substituted except when hydroseeding, which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 98 to 100 percent will pass through a #200 mesh sieve.
 - Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or other suitable means.
 - Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil.

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

- Definition**
The application of seed and mulch to establish vegetative cover.
- Purpose**
To protect disturbed soils from erosion during and at the end of construction.
- Conditions Where Practice Applies**
To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.
- Criteria**
- Seeding**
 - All seed must meet the requirement of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4.
 - Line mixtures must be prepared and sown in the order of the seed mixture. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate.
 - Mulch alone may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws.
 - Inoculants the inoculant for legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculants as cool as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less effective.
 - Seed must not be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.
 - Application**
 - Dr. Seeding: This includes use of conventional drop or broadcast spreaders.
 - Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1, Permanent Seeding Table B.3, or site-specific seeding summaries.
 - Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with weighted roller to provide good seed to soil contact.
 - Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.
 - Cultipacker seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting.
 - Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction.
 - Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer).
 - If fertilizer is being applied at the time of seeding, the application rates shall not exceed the following: nitrogen, 100 pounds per acre total of available nitrogen; P₂O₅ (phosphorus), 200 pounds per acre; K₂O (potassium), 200 pounds per acre.
 - Line: Use ground application limestone (up to 1.5 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
 - Mix seed and fertilizer on site and seed immediately and without irrigation.
 - When hydroseeding do not incorporate seed into the soil.
 - Mulching**
 - Mulch Materials (in order of preference):
 - Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color. Straw is to be free of noxious weed seeds as specified in the Maryland Seed Law and not musty, moldy, caked, decayed, or excessively dusty.
 - Note: Use only sterile straw mulch in areas where soil species of grasses is desired.
 - Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into uniform fibrous physical state.

- WCFM is to be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry.**
- WCFM, including dyes, must contain no germination or growth inhibiting factors.
 - WCFM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under application and will blend with seeds, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a bi-layer in the ground cover, on application, having moisture absorbing and retention properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
 - WCFM material must not contain elements or compounds at concentration levels that will be phytotoxic.
 - WCFM must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter approximately 1 millimeter, pH ranging from 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of 50 percent minimum.
- Application**
- Apply mulch to all seeded areas immediately after seeding.
 - When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch spreader the application rate is 2.5 tons per acre.
 - Wood cellulose fiber used as mulch must be applied to a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to obtain a mixture with a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
- Anchoring**
- Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon the size of the area and erosion hazard:
 - A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should follow the contour.
 - Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
 - Synthetic binders such as Acrylic BLR (Ago-Tack), DCA-70, Petra-seal, Terra Tex, Terra Tack or other approved equal may be used. Follow application rates as specified by the manufacturer. Application of liquid binders need to be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. Use of asphalt binder is strictly prohibited.
 - Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is usually available in rolls 4-15 feet wide and 300 to 3,000 feet long.

TEMPORARY SEEDING NOTES (B-4-4)

- Definition**
To stabilize disturbed soils with vegetation for up to 6 months.
- Purpose**
To use fast growing vegetation that provides cover on disturbed soils.
- Conditions Where Practice Applies**
Exposed soils where permanent cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.
- Criteria**
- Select one or more of the species or seed mixtures listed in Table B.1 for the appropriate Plant Hardness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and completed, then Table B.1 plus fertilizer and lime rates must be put on the plan.
 - For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests are not required for Temporary Seeding.
 - When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch alone as prescribed in Section B-4-3.1.1 and maintain until the next seeding season.
- Temporary Seeding Summary**
- | Hardness Zone (from Figure B.3): | Seed Mixture (from Table B.1): | Fertilizer Rate (10-20-20) | Lime Rate |
|----------------------------------|--------------------------------|----------------------------|---------------------------|
| 5b | | | |
| Species | Application Rate (lb/oc) | Seeding Dates | Seeding Depths |
| BARLEY | 96 | 3/1 - 5/15 | 1" |
| | | | 436 lb/oc (10 lb/1000 sf) |
| OATS | 72 | 8/15 - 10/15 | 1" |
| | | | 2 tons/oc (90 lb/1000 sf) |
| RYE | 112 | | 1" |

PERMANENT SEEDING NOTES (B-4-5)

- A. Seed Mixtures**
- General Use**
 - Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardness Zone (from Figure B.3) and based on the site conditions or purposes found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.
 - Additional planning specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planning.
 - For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 1/2 pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary.
 - For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 1/2 pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary.
- B. Turfgrass Mixtures**
- Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance.
 - Select one or more of the species or mixtures listed below based on the site conditions or purpose. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the plan.

- C. Kentucky Bluegrass: Full Sun Mixture:** For use in areas that receive intensive management. Irrigation required in the areas of central and eastern States. Recommended Kentucky Bluegrass Cultivars: Kentucky Bluegrass Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
- D. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture:** For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive management. Certified Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
- E. Kentucky Bluegrass/Fine Fescue: Shade Mixture:** For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes: Certified Kentucky Bluegrass Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. One or more cultivars may be blended.
- F. Kentucky Bluegrass/Fine Fescue: Shade Mixture:** For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes: Certified Kentucky Bluegrass Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 1 1/2 to 3 pounds per 1000 square feet.
- Notes:**
Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass Cultivar Recommendations for Maryland"
- Choose certified material. Certified material is the best guarantee of cultivar purity.** The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic line.
- Ideal Times of Seeding for Turf Grass Cultivars:** March 15 to June 1, August 1 to October 1 (Hardness Zones: 5b, 6a) Central Mid: March 1 to May 15, August 15 to October 15 (Hardness Zones: 6a) Southern Mid: Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardness Zones: 7a, 7b)
- Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 1 1/2 inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose no difficulty.**
- If soil moisture is deficient, supply new seedings with adequate water for plant growth (1/2 to 1 inch every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.**

Permanent Seeding Summary

Hardness Zone (from Figure B.3):	Seed Mixture (from Table B.3):	Fertilizer Rate (10-20-20)	Lime Rate					
No.	Species	Application Rate (lb/oc)	Seeding Dates	Seeding Depths	N	P ₂ O ₅	K ₂ O	Lime Rate
8	FALL TALL FESCUE	100	Mar. 1-May 15 Aug. 15-Oct. 15	1 1/4-1 1/2"	45 lbs./oc (10 lb/1000 sf)	80 lb/oc (2 lb/1000 sf)	90 lb/oc (2 lb/1000 sf)	2 tons/oc (90 lb/1000 sf)

PROFESSIONAL CERTIFICATION
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 NO. 38388.
EXPIRATION DATE: 01/12/2016.
Stephanie Tuile
Stephanie Tuile, P.E.
Professional Engineer

ENGINEER'S CERTIFICATE
I certify that this plan for sediment and erosion 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.
John R. White
John R. White, P.E.
Professional Engineer
11/24/15
Date

DEVELOPER'S CERTIFICATE
I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize a professional engineer to inspect for the Howard Soil Conservation District.
John R. White
John R. White, P.E.
Professional Engineer
11/24/15
Date

OWNERS
RIVER HILL OVERLOOK, LLC
5034 DORSEY HALL DRIVE
ELICOTT CITY, MARYLAND 21042
410-740-0522
ATTN: DOUG DIERINGER & RICHARD DEMMITT

BUILDER
NV HOMES
9720 PATENT WOODS DRIVE
COLUMBIA, MARYLAND 21046
410-379-5956
ATTN: RYAN JOHNSON

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Valerie J. Jorgensen
Director - Department of Planning and Zoning
12-10-15
Date

John R. White
Chief, Division of Land Development
12-10-15
Date

John R. White
Chief, Department Engineering Division
12-7-15
Date

SUBDIVISION: RIVER HILL OVERLOOK
BLOCK NO.: 8
ZONE: R-ED
TAX/PARCEL: 23468-23470
ELEC. DIST.: FIFTH
CENSUS TR.: 605505

SEDIMENT & EROSION CONTROL NOTES & DETAILS

RIVER HILL OVERLOOK,
LOTS 1 THRU 8 AND OPEN SPACE LOTS 9, 11, & 12
ZONED R-ED
TAX MAP No. 35 GRID No. 8 PARCEL No. 66
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: NOVEMBER, 2015
SHEET 5 OF 5

SDP-15-080

B. Sod: To provide quick cover on disturbed areas (2:1 grade or flatter).

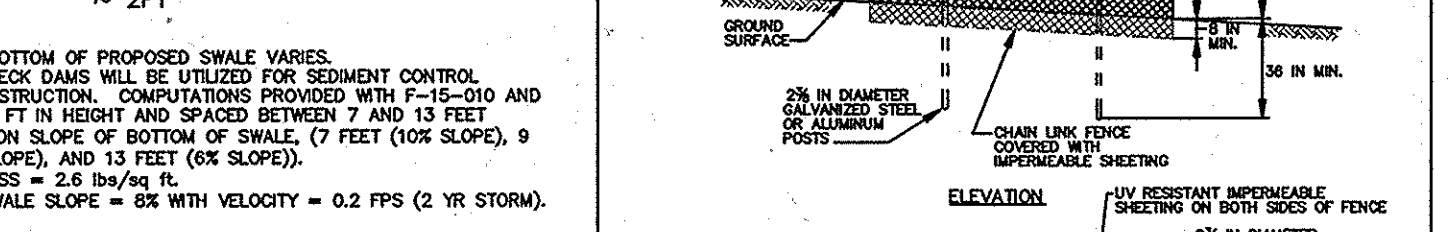
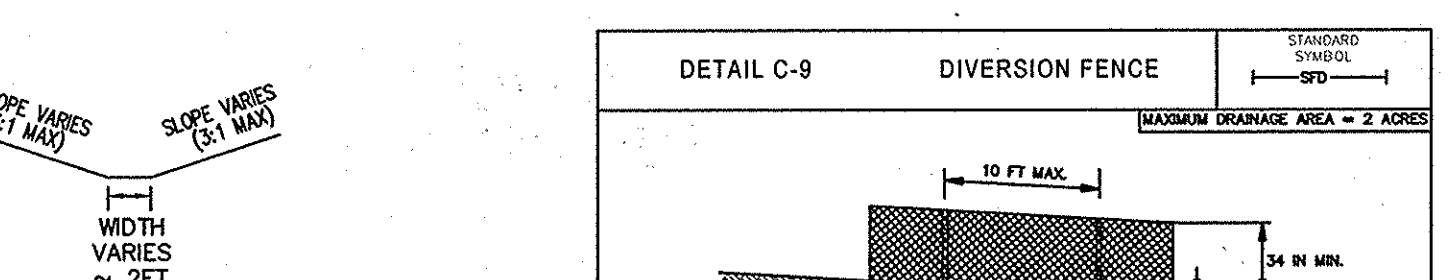
- General Specifications**
 - Class of turfgrass sod must be Maryland State Certified. Sod labels must be made available to the job foreman and inspector.
 - Sod must be machine cut to a uniform soil thickness of 3/4 inch, plus or minus 1/8 inch, at the time of cutting. Measurement for thickness must be taken on the top and bottom of sod and uniform ends will not be acceptable.
 - Standard size sections of sod must be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grip on the upper 10 percent of the section.
 - Sod must not be harvested or transported when moisture content (excessively dry or wet) may adversely affect its survival.
 - Sod must be harvested, delivered, and installed within a period of 36 hours. Sod not transported within this period must be stored by an agronomist or soil scientist prior to its installation.
- Soil Installation**
 - During periods of excessively high temperature or in areas having dry subsoil, lightly irrigate the subsoil immediately prior to laying the sod.
 - The first row of sod in a straight line with subsequent rows placed parallel to it and tightly wedged against each other. Stagger lateral joints to promote more uniform growth and strength. Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause drying of the roots.
 - Wherever possible, lay sod with the long edges parallel to the contour and with staggering joints. Roll and tamp, peg or otherwise secure the sod to prevent slipping on slopes. Ensure solid contact exists between sod roots and the underlying soil surface.
 - Water the sod immediately following rolling and tamping until the underside of the new sod and soil surface below the sod are thoroughly wet. Complete the operations of rolling, tamping, and irrigating for any piece of sod within eight hours.
- Sod Maintenance**
 - In the absence of adequate rainfall, water daily during the first week or as often and sufficiently as necessary to maintain moist soil to a depth of 4 inches. Water sod during the heat of the day to prevent wilting.
 - After the first week of watering, water only when necessary to maintain moist soil to a depth of 4 inches.
 - Do not mow until the sod is firmly rooted. No more than 1/2 of the grass leaf must be removed by the initial cutting or subsequent cuttings. Maintain a grass height of at least 3 inches unless otherwise specified.

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREAS

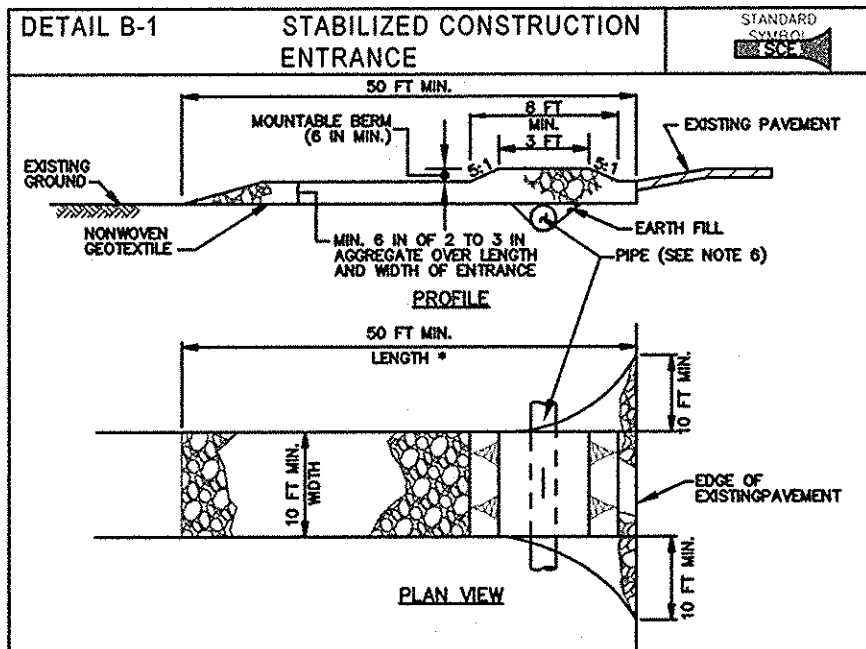
- Definition**
A mound or pile of soil protected by appropriately designed erosion and sediment control measures.
- Purpose**
To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.
- Conditions Where Practice Applies**
Stockpile areas are utilized when it is necessary to edge and store soil for later use.
- Criteria**
- The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
 - The footprint of the stockpile must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept no steeper than 2:1. Benching must be provided in accordance with Section B-3-Land Grading.
 - Runoff from the stockpile area must drain to a suitable sediment control practice.
 - Access to the stockpile area from the project site.
 - Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary wedge or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner.
 - Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to prevent the discharge.
 - Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-1 Temporary Stabilization.
 - If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate dewatering. Stockpiles containing contaminated material must be covered with impermeable sheeting.
- Maintenance**
The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4-1 Incremental Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3-Land Grading.

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

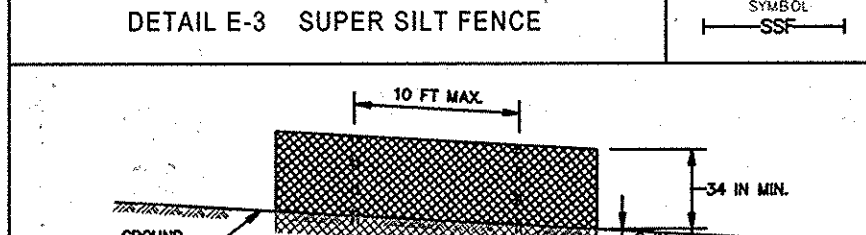
- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 03 CALENDAR DAYS FOR ALL PERMETER SEDIMENT CONTROL STRUCTURES, 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 (SECTION B-3-LAND GRADING).
- TEMPORARY SEEDING (SEC. B-4-4) AND MULCHING (SEC. B-4-3). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:**
TOTAL AREA OF SITE: 3.30 ACRES (THIS SUBMISSION)
AREA DISTURBED: 2.88 ACRES
AREA TO BE ROOFED OR PAVED: 0.93 ACRES
AREA TO BE VEGETATIVELY STABILIZED: 1.75 ACRES
TOTAL CUT: 5,000 CU.YDS.
TOTAL FILL: 5,000 CU.YDS.
- OFFSITE WASTE/BORROW AREA LOCATION: N/A
- ANY SEDIMENT CONTROL PRACTICE THAT 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 MUST 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 APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- OTHER EARTH DISTURBANCE OR GRADING IS LIMITED TO THREE PER LINE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY, 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 AVERAGE OF 20 ACRES PER GRADING UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT AT A LATER DATE PROVIDED THAT 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.



- CONSTRUCTION SPECIFICATIONS**
- USE 42 INCH HIGH, 9 GAUGE OR THICKER CHAIN LINK FENCING (2% NOMINAL OPENING).
 - USE 2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.625 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. THE POSTS DO NOT NEED TO BE SET IN CONCRETE.
 - FASTEN CHAIN LINK FENCE TO THE FENCE POSTS WITH WIRE TIES.
 - FASTEN CHAIN LINK FENCE TO THE FENCE POSTS WITH WIRE TIES. THE FENCE MUST BE SPACED EVERY 24 HOURS AT THE TOP, MID SECTION, AND BELOW GROUND SURFACE.
 - EXTEND SEEDING A MINIMUM OF 4 FEET ALONG FLOW SURFACE AND DEEP ENDS A MINIMUM OF 6 INCHES INTO GROUND. SEED STABILIZATION MATTING MAY BE USED IN LIEU OF PLANTED SEEDS.
 - KEEP FLOW SURFACE ALONG DIVERSION FENCE AND POINT OF DISCHARGE FREE OF OBSTRUCTION.
 - WHEN TWO SECTIONS OF SEEDING ADJOIN EACH OTHER, OVERLAP BY 6 INCHES AND FOLD WITH SEAM FACING DOWNWARD.



- CONSTRUCTION SPECIFICATIONS**
- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SOLE. MINIMUM LENGTH OF 50 FEET (100 FEET FOR SINGLE RESURFACE LOTS). USE HERRING BONE PAVING BOTH TO LEFT AND RIGHT OF THE ENTRANCE ROAD TO PROVIDE A TURNING RADIUS.
 - PIPE ALL DRAINAGE DRAINAGE TO OR BEING DOWN THE FACE UNDER THE ENTRANCE. MAINTAINING PIPE INSTALLED THROUGH THE SOLE WITH A MOUNTABLE BEAM WITH A 2 INCH DIA. VERTICAL PIPE. THE BEAM MUST BE INSTALLED AS SPECIFIED ON APPROVED PLAN. WHEN THE SOLE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY AND TRAFFIC IS NOT NECESSARY, A MOUNTABLE BEAM IS REQUIRED WHEN SOLE 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 4 INCHES DEEP BOTH TO LEFT AND RIGHT OF THE ENTRANCE ROAD.
 - MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, ADJACENT STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAR SURFACE, MOUNTABLE BEAM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPOILED, DROPPED, OR TRACKED ONTO ADJACENT PROPERTY BY WASHING, SCOURING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE AND TRACKER IS NOT ACCEPTABLE UNLESS HIGH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.



- CONSTRUCTION SPECIFICATIONS**
- INSTALL 2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.625 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. MAKE THE POSTS A MINIMUM OF 28 INCHES HIGH IN HARDLY SECURED TO THE FENCE POSTS WITH WIRE TIES OR HUB RINGS.
 - FASTEN CHAIN LINK FENCE TO THE FENCE POSTS WITH WIRE TIES. THE FENCE MUST BE SPACED EVERY 24 HOURS AT THE TOP, MID SECTION, AND BELOW GROUND SURFACE.
 - EXTEND SEEDING A MINIMUM OF 4 FEET ALONG FLOW SURFACE AND DEEP ENDS A MINIMUM OF 6 INCHES INTO GROUND. SEED STABILIZATION MATTING MAY BE USED IN LIEU OF PLANTED SEEDS.
 - EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPLOUSE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
 - REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BUILDS DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN, IF UNDERGOING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

- CONSTRUCTION SPECIFICATIONS**
- USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DETERMINED ON APPROVED PLANS.
 - USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC NON-DEGRADABLE PRESS OR NON-WEAVING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-HARSH TO THE SKIN. MATTING MUST BE AT LEAST 1/2 INCH THICK AND A MINIMUM OF 1/2 INCH LONG. SHARP STAPLES MUST HAVE A MINIMUM 5/16 INCH SHARP POINT. MATTING MUST BE INSTALLED IN A MANNER THAT PREVENTS MATTING FROM BEING WASHED AWAY BY WIND OR WATER. MATTING MUST BE INSTALLED IN A MANNER THAT PREVENTS MATTING FROM BEING WASHED AWAY BY WIND OR WATER.
 - SECURE MATTING USING STEEL STAPLES OR WOOD STAPLES. STAPLES MUST BE "U" OR "I" SHAPED STEEL WITH A MINIMUM GAUGE OF 10 IT AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1.5 INCHES LONG AND A MINIMUM OF 1/2 INCH LONG. "I" SHAPED STAPLES MUST AVERAGE 1 TO 1.5 INCHES LONG AND A MINIMUM OF 1/2 INCH LONG. STAPLES MUST BE PLACED AT 12 INCH SPACES ALONG THE LENGTH OF THE MATTING AND AT 12 INCH SPACES ALONG THE WIDTH OF THE MATTING.
 - PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDING PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS. FAILURE ENDS OF NONWOVEN STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
 - UNROLL MATTING IN PORTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTER LINE FROM THE SOURCE OF CHANNEL FLOW. UNROLL MATTING WITH SLOPE ROLLS LAY MATTING BACKLIFT AND PULL UPON THE SOURCE OF WATER FLOW. UNROLL MATTING WITH SLOPE ROLLS LAY MATTING BACKLIFT AND PULL UPON THE SOURCE OF WATER FLOW.
 - IF ANY PART OF MATTING HOLDS MANUFACTURER RECOMMENDATIONS, OVERLAP SLOPE ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT.
 - KEY IN TO THE DOWNSTREAM END OF MAT 6 INCHES (MINIMUM) BY DRIVING A TRENCH PLACING THE MATTING INTO THE TRENCH. KEY IN TO THE DOWNSTREAM END OF MAT 6 INCHES (MINIMUM) BY DRIVING A TRENCH PLACING THE MATTING INTO THE TRENCH.
 - STAPLE MATTING AT A SPACED PATTERN AND 4 FOOT (MINIMUM) CENTERS THROUGHOUT AND 4 FOOT (MINIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
 - IF SPECIFIED BY THE DESIGNER OR MANUFACTURER AND DEPENDING ON THE TYPE OF MAT BEING INSTALLED, FASTEN MATTING TO THE SUBGRADE WITH STAPLES OR WIRE TIES. STAPLES OR WIRE TIES MUST BE PLACED AT 12 INCH SPACES ALONG THE LENGTH OF THE MATTING AND AT 12 INCH SPACES ALONG THE WIDTH OF THE MATTING.
 - ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE MET THROUGHOUT THE LIFE OF THE PROJECT. VEGETATION MUST BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.

