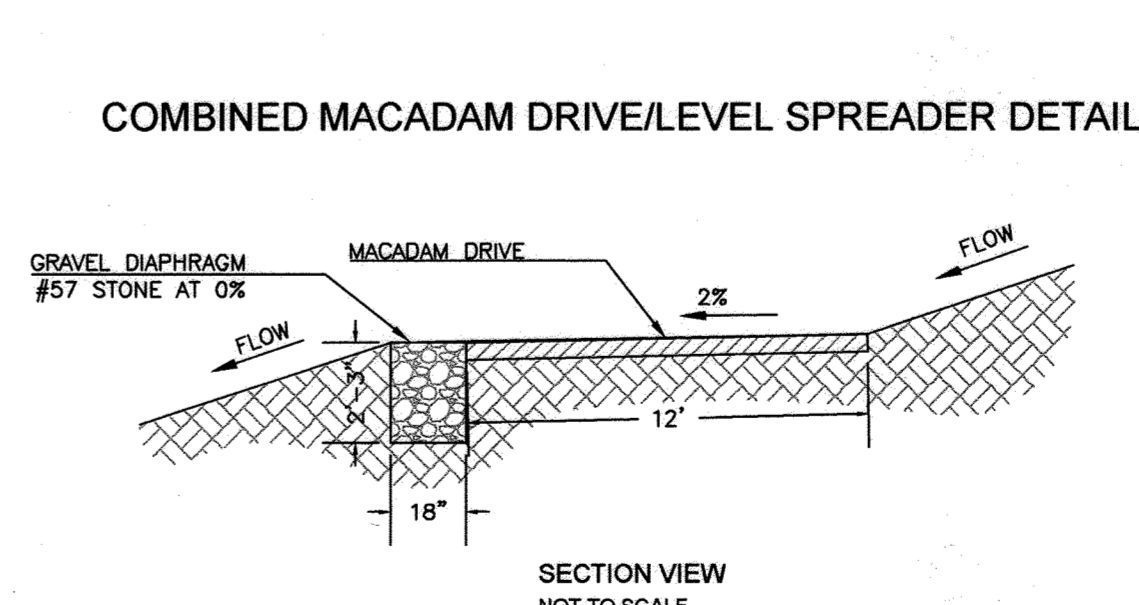
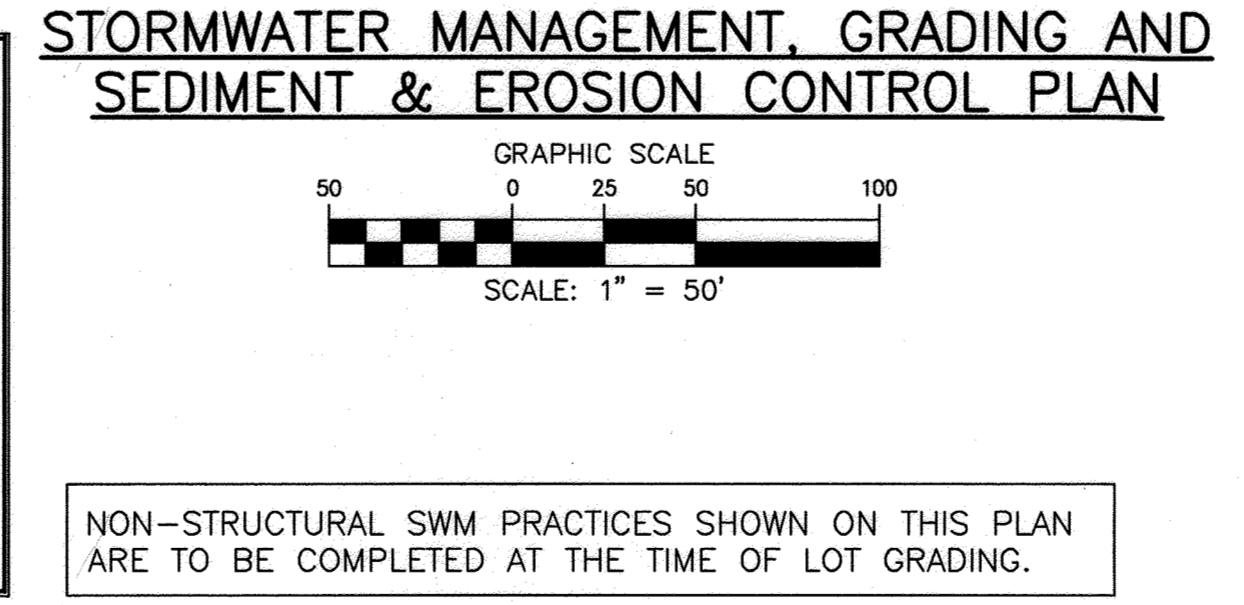
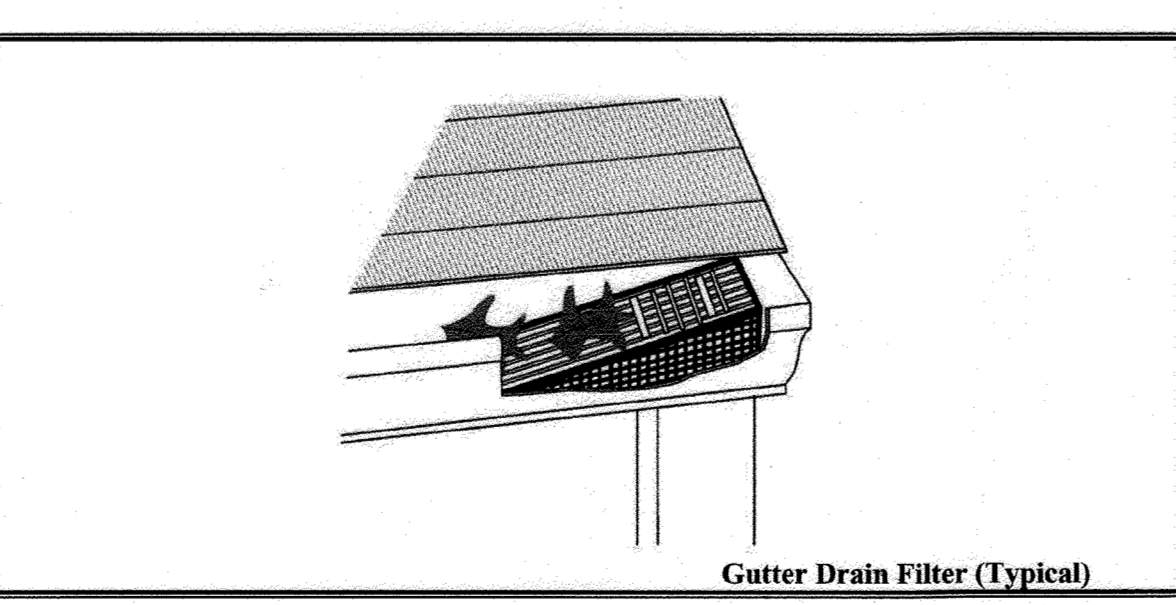


SOILS TABLE

SYMBOL	SOIL NAME	CLASS	K FACTOR	HIGHLY ERODIBLE
GgA	GLENELG LOAM, 0 TO 3% SLOPES	B	.28	NO
GgB	GLENELG LOAM, 3-8% SLOPES	B	.24	NO
GgB	GLENVILLE-BAILE SILT LOAM 0-8% SLOPES	C	.43	YES

DRYWELL SCHEDULE

DRYWELL NO.	IMPERVIOUS AREA (SF)	VOLUME REQUIRED (CF)	VOLUME PROVIDED (CF)	AREA OF TREATMENT	L x W x D
B-1	3015	305	324	3015	240 X 1.5 X 2.25
B-3	800	63	64	800	8 X 8 X 2.5
B-4	800	63	64	800	8 X 8 X 2.5
B-6	800	63	64	800	8 X 8 X 2.5



SEDIMENT AND EROSION CONTROL SHOWN ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH A FUTURE GRADING PLAN FILED WITH THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 10-21-19
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

HOWARD SCD SIGNATURE BLOCK:
 THIS PLAN IS APPROVED FOR SOIL AND EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 [Signature] 10-23-19
 HOWARD SOIL CONSERVATION DISTRICT

DESIGN CERTIFICATION:
 I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 [Signature] 10-4-19
 Kenneth W. Snodgrass
 REGISTRATION NO. 50460
 P.E. R.L.S. OR R.L.A. (CIRCLE ONE)

PROFESSIONAL CERTIFICATION:
 I HEREBY CERTIFY 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. 156460, EXPIRATION DATE: 1-12-2021
 [Signature] 10-4-19
 PROFESSIONAL ENGINEER

OWNER/DEVELOPER CERTIFICATION:
 I HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.
 [Signature] 10/3/2019
 OWNER/DEVELOPER
 KEVIN & MARIA GARVEY
 2605 ROUTE 97
 GLENWOOD, MD 21738

STORMWATER MANAGEMENT, GRADING AND SEDIMENT & EROSION CONTROL PLAN
GREEN MEADOWS
 LOTS 7-8 AND PARCEL A
 ZONE: POR AND RR-DEO

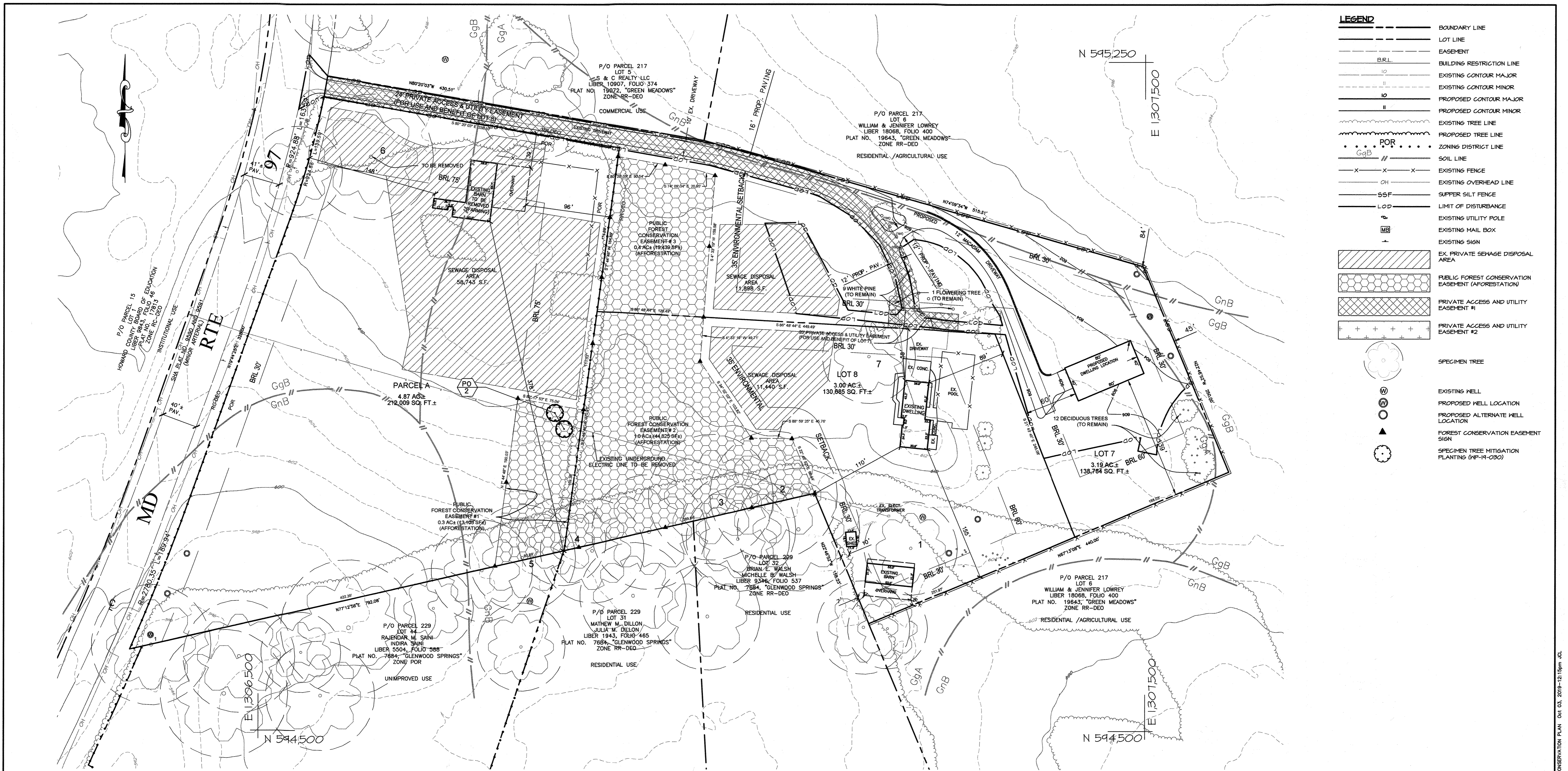
TAX MAP: 14, GRID: 11
 ELECTION DISTRICT: 4

PARCEL: 217, LOT: 1
 HOWARD COUNTY, MARYLAND

DSThaler & ASSOC., LLC
 CIVIL AND ENVIRONMENTAL ENGINEERS, SURVEYORS, LANDSCAPE ARCHITECTS & LAND PLANNERS
 www.dsthaler.com
 7115 AMBASSADOR ROAD, P.O. BOX 41428
 BALTIMORE, MARYLAND 21207-1428
 PHONE: 410-444-3647

PROJECT NO.: 4177
 DESIGNED BY: KTG
 DRAWN BY: KTG
 CHECKED BY: KWS
 SCALE: AS SHOWN
 DATE: JULY 17, 2019

SHEET: 2 OF 6
 F-18-066



LEGEND

---	BOUNDARY LINE
---	LOT LINE
---	EASEMENT
B.R.L.	BUILDING RESTRICTION LINE
---	EXISTING CONTOUR MAJOR
---	EXISTING CONTOUR MINOR
---	PROPOSED CONTOUR MAJOR
---	PROPOSED CONTOUR MINOR
---	EXISTING TREE LINE
---	PROPOSED TREE LINE
---	ZONING DISTRICT LINE
---	SOIL LINE
X-X-X	EXISTING FENCE
OH	EXISTING OVERHEAD LINE
SSF	SUPPER SILT FENCE
LOD	LIMIT OF DISTURBANCE
U	EXISTING UTILITY POLE
MB	EXISTING MAIL BOX
+	EXISTING SIGN
[Hatched Box]	EX. PRIVATE SEWAGE DISPOSAL AREA
[Hexagonal Box]	PUBLIC FOREST CONSERVATION EASEMENT (AFFORESTATION)
[Cross-hatched Box]	PRIVATE ACCESS AND UTILITY EASEMENT #1
[Dotted Box]	PRIVATE ACCESS AND UTILITY EASEMENT #2
[Tree Symbol]	SPECIMEN TREE
W	EXISTING WELL
W	PROPOSED WELL LOCATION
W	PROPOSED ALTERNATE WELL LOCATION
▲	FOREST CONSERVATION EASEMENT SIGN
[Tree Symbol]	SPECIMEN TREE MITIGATION PLANTING (MP-19-020)

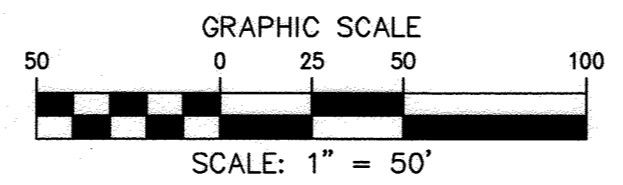
SPECIMEN TREE TABLE

NO.	LATIN NAME	COMMON NAME	SIZE	CONDITION
1	QUERCUS ALBA	WHITE OAK	35"	GOOD
2	QUERCUS RUBRA	RED OAK	48"	FAIR, DEAD LIMBS, HOLE
3	QUERCUS RUBRA	RED OAK	47"	FAIR, DEAD LIMBS
4	ACER RUBRUM	RED MAPLE	33"	GOOD
5	QUERCUS RUBRA	RED OAK	40"	GOOD, SOME DEAD LIMBS
6	QUERCUS ALBA	WHITE OAK	31"	GOOD
7	LIQUIDAMBAR STYRACIFLUA	AMERICAN SWEETGUM	30"	GOOD

SOILS TABLE

SYMBOL	SOIL NAME	CLASS	K FACTOR	HIGHLY ERODABLE
GgA	GLENELG LOAM, 0 TO 3% SLOPES	B	.26	NO
GgB	GLENELG LOAM, 3-8% SLOPES	B	.24	NO
GgB	GLENVILLE-BAILE SILT LOAM 0-8% SLOPES	C	.43	YES

LANDSCAPE AND FOREST CONSERVATION PLAN



APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 10-21-19
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 10-23-19
 CHIEF, DIVISION OF LAND DEVELOPMENT

PROFESSIONAL CERTIFICATION

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

[Signature] 10/3/2019
 KEVIN T. GARVEY, SA (MD LIC. #3801)

DEVELOPER/BUILDER CERTIFICATION:

I/WE HEREBY CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 18.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A CERTIFICATION OF THE LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE (1) YEAR GUARANTEE OF PLANT MATERIAL WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

[Signature] 10/3/2019
 DEVELOPER'S SIGNATURE

NO.	REVISION	DATE

LANDSCAPE & FOREST CONSERVATION PLAN
GREEN MEADOWS
 LOTS 7-8 AND PARCEL A
 ZONE: POR AND RR-DEO

TAX MAP: 14, GRID: 11
 ELECTION DISTRICT: 4

PARCEL: 217, LOT: 1
 HOWARD COUNTY, MARYLAND

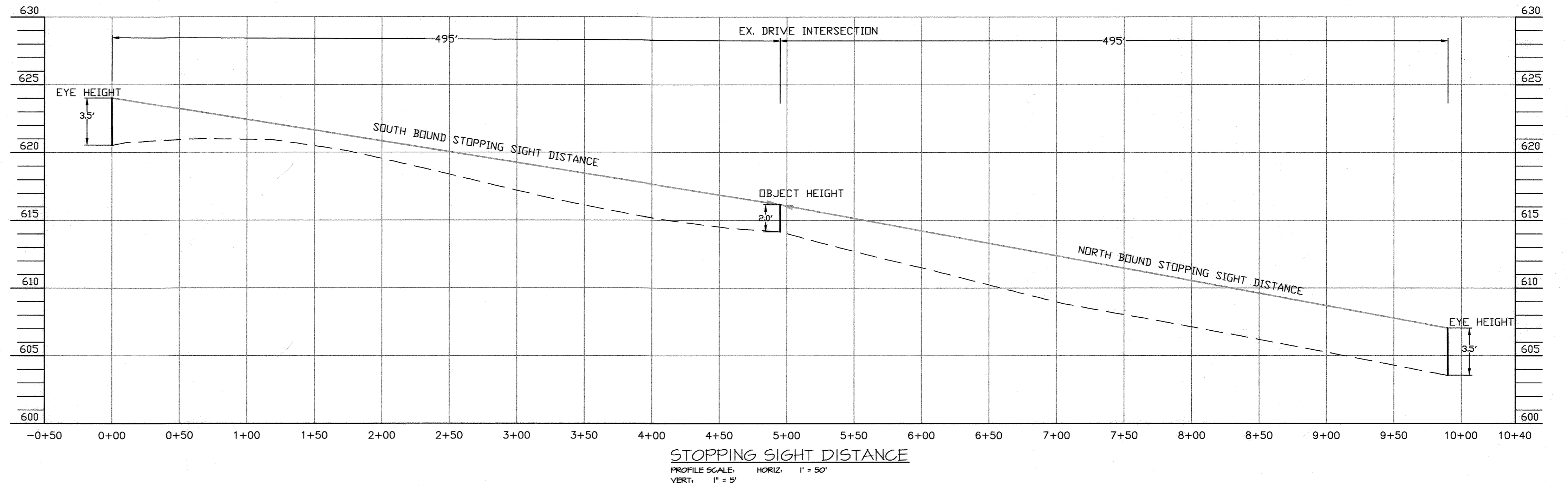
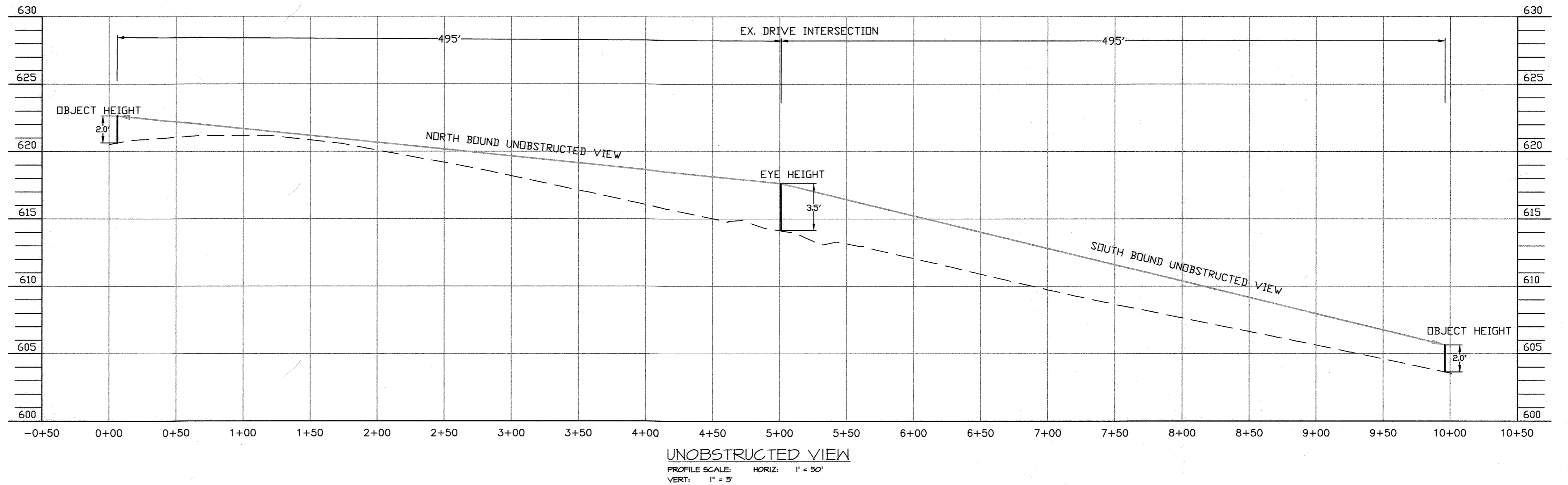
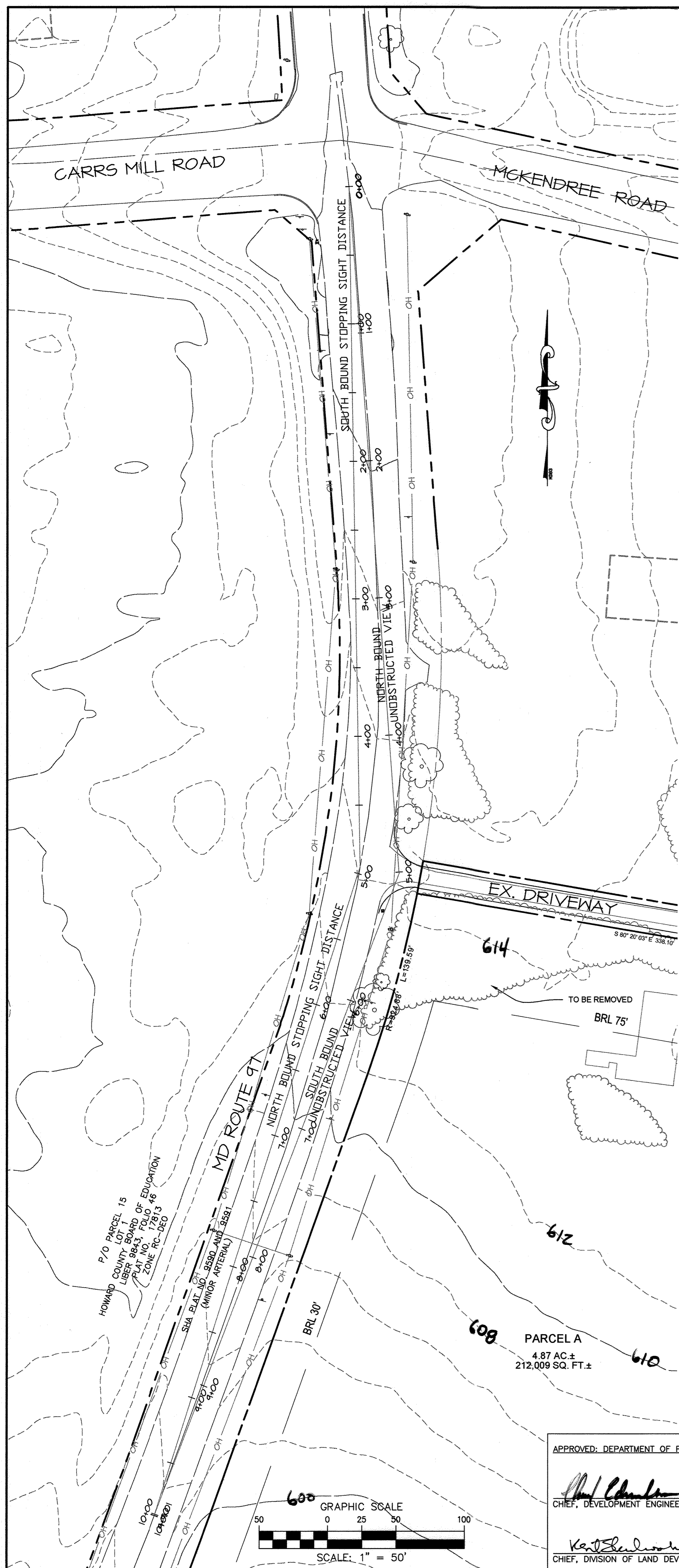
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OWNER/DEVELOPER
 KEVIN & MARIA GARVEY
 2605 ROUTE 97
 GLENWOOD, MD 21738

PROJECT NO.: 4177
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 SCALE: AS SHOWN
 DATE: JULY 17, 2019

115 AMBASSADOR ROAD, P.O. BOX 41428
 BALTIMORE, MARYLAND 21201-7428
 PHONE: 410-444-3641

SHEET: 4 OF 6
 F-18-066



STOPPING SIGHT DISTANCE LEFT TURN FROM STOP				
ACTUAL POSTED SPEED (MPH)	ASSUMED DESIGN SPEED	GRADIENT	STOPPING SIGHT DISTANCE REQUIRED (FT)	
45	55	< 3% DOWN GRADE ASSUMED LEVEL	495	
STOPPING SIGHT DISTANCE RIGHT TURN FROM STOP				
ACTUAL POSTED SPEED (MPH)	ASSUMED DESIGN SPEED	GRADIENT	STOPPING SIGHT DISTANCE REQUIRED (FT)	
45	55	3%± UP-GRADE	495	

REFERENCE: A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS 2011, TABLE 3-1, "STOPPING SIGHT DISTANCE ON LEVEL ROADWAY" AND TABLE 3-2, "STOPPING SIGHT DISTANCE ON GRADES".

NOTES:

- ACCESS TO MD ROUTE 97 FROM THE PROPOSED RESIDENTIAL LOT 7 WILL UTILIZE THE EXISTING DRIVE TO THE EXISTING SINGLE FAMILY RESIDENTIAL DWELLING (LOT 8).
- THE EXISTING DRIVE WILL BE IMPROVED TO MARYLAND STATE HIGHWAY ADMINISTRATION RESIDENTIAL DRIVEWAY STANDARDS.
- MD ROUTE 97 FUNCTIONAL ROAD CLASSIFICATION IS A MINOR ARTERIAL.
- THE POSTED SPEED LIMIT ON MD ROUTE 97 IS 45 MPH IN BOTH DIRECTIONS.
- AN ASSUMED DESIGN SPEED OF THE POSTED SPEED PLUS 10 MPH (55 MPH) WAS USED TO ESTIMATE STOPPING SIGHT DISTANCE.
- TOPOGRAPHY SHOWN WITHIN THE ROAD IS BASED ON A FIELD RUN SURVEY BY D.S. THALER & ASSOCIATES, LLC, DATED FEBRUARY 2019.

LEGEND

- BOUNDARY LINE
- LOT LINE
- EASEMENT
- B.R.L. BUILDING RESTRICTION LINE
- 10 EXISTING CONTOUR MAJOR
- 11 EXISTING CONTOUR MINOR
- EXISTING TREE LINE
- OH EXISTING OVERHEAD LINE
- U EXISTING UTILITY POLE
- MB EXISTING MAIL BOX
- EXISTING SIGN
- EXISTING TREE (SURVEY LOCATED)

APPROVED: DEPARTMENT OF PLANNING AND ZONING

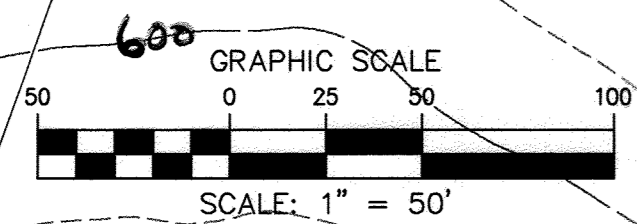
Paul Chander
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 10-21-19

Karl Schuman
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 10-23-19

PROFESSIONAL CERTIFICATION:

"I HEREBY CERTIFY 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. 17-0000000000, EXPIRATION DATE: 1-12-2021"

[Signature]
 DATE: 10-4-2019



NO.	REVISION	DATE

**STOPPING SIGHT DISTANCE ANALYSIS
 GREEN MEADOWS**
 LOTS 7-8 AND PARCEL A
 ZONE: POR AND RR-DEO

TAX MAP: 14, GRID: 11
 ELECTION DISTRICT: 4

PARCEL: 217, LOT: 1
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SHEET: 6 OF 6
 F-18-066