## ESD NARRATIVE

I. NO NATURAL RESOURCES SUCH AS STEEP SLOPES, FOREST CONSERVATION AREAS, WETLANDS, STREAMS OR THEIR ASSOCIATED BUFFERS EXIST ON-SITE. THE PROPOSED MICRO-BIORETENTION FACILITIES WILL PROVIDE STORMWATER QUALITY TREATMENT FOR THE NEW DEVELOPMENT AND A PORTION OF THE EXISTING DEVELOPMENT, WHICH WILL BE AN IMPROVEMENT OVER EXISTING CONDITIONS SINCE NO EXISTING TREATMENT EXISTS FOR THE SITE. THE DESIGN ACCOUNTS FOR PRESERVING THE EXISTING TREES WHERE POSSIBLE

2. THE IMPROVEMENTS AND DEVELOPED AREA WILL MAINTAIN THE EXISTING DRAINAGE PATTERNS AS CLOSELY AS POSSIBLE. NO IMPACT IS PROPOSED THAT WOULD ALTER ANY NATURAL FLOW PATTERNS.

3. THE USE OF NON-STRUCTURAL PRACTICES SUCH AS ROOFTOP AND NON-ROOFTOP DISCONNECTION WAS CONSIDERED AND REJECTED DUE TO THE TOPOGRAPHY OF THE SITE, THE EXISTING PLAYING FIELD, AND THE LARGE AMOUNT OF IMPERVIOUS SURFACES ON THE SITE. ALTERNATIVE SURFACES WERE CONSIDERED AND REJECTED DUE TO THE EXTENT OF TYPE 'D' SOILS THROUGHOUT THE SITE. IT WAS DETERMINED THAT THE BEST ESD METHODOLOGY WOULD BE TO TREAT THE PROPOSED IMPROVEMENTS AND EXISTING IMPERVIOUS SURFACES USING MICRO-BIORETENTION FACILITIES (M—6).

4. THE REQUIRED EROSION AND SEDIMENT CONTROL MEASURES WILL BE IN ACCORDANCE WITH THE LATEST MDE STANDARDS AND SPECIFICATIONS UTILIZING SILT FENCES AND SUPER SILT FENCES. NO CONCENTRATED FLOW IS PROPOSED. NO SEDIMENT TRAPS OR BASINS ARE REQUIRED.

5. TABLE 5.2, SUMMARY OF SITE DEVELOPMENT STRATEGIES WAS UTILIZED TO THE EXTENT ALLOWABLE BY THE CURRENT HOWARD COUNTY ZONING AND LAND DEVELOPMENT REGULATIONS BY MINIMIZING EARTH DISTURBANCE, REMOVING PORTIONS OF THE EXISTING PAVEMENT, AND UTILIZING GRASS PARKING INSTEAD OF ASPHALT PAVING.

6. IN DESIGNING THIS PROJECT, AND AFTER WE PLAN THE PROJECT TO MINIMIZE IMPERVIOUS AREAS, WE UTILIZED ESD MEASURES IN THE FOLLOWING ORDER OF PREFERENCE:

A. MICRO-SCALE PRACTICES (M-6)

## SITE ANALYSIS DATA:

1. AREA OF THE SITE = 5.39 Ac EXISTING IMPERVIOUS WITHIN SITE = 3.61 Ac 3.61 / 5.39 = 67% (>40% REDEVELOPMENT CRITERIA)

- LIMIT OF DISTURBANCE (LOD) = 1.72 Ac (INCLUDING OFFSITE) 2. AREA OF WETLANDS AND BUFFERS = 0
- 3. AREA OF FLOODPLAIN = 0
- 4. AREA OF STREAM BUFFER = 0
- 5. AREA OF STEEP SLOPES (15% OR GREATER FOR A VERTICAL DISTANCE OF
- 10 FEET OR MORE) = 0
- 6. AREA OF FOREST = 0
- 7. TOTAL ENVIRONMENTAL SENSITIVE AREA\* = 0 \*TOTAL AREA OF STREAM AND STREAM BUFFERS, WETLANDS AND WETLAND BUFFERS, 100-YEAR FLOODPLAIN AREAS, AND STEEP SLOPE AREAS (>=25% SLOPE ONLY), TAKING OVERLAPPING INTO ACCOLIN'
- 8. THIS SITE CONTAINS UCD SOILS WHICH ARE HIGHLY ERODIBLE.
- 9. NO SUBDIVISION OF THE PROPERTY IS PROPOSED. 0.36 Ac / 15,582 SF 10. TOTAL EXISTING IMPERVIOUS AREA (WITHIN LOD): 0.04 Ac / 1,572 SF BUILDINGS: 0.31 Ac / 13.674 SF PAVEMENT: 0.01 Ac / 336 SF SIDEWALKS:
- TOTAL PROPOSED IMPERVIOUS AREA (WITHIN LOD): **BUILDINGS:** PAVEMENT: SIDEWALKS: PROPOSED GREEN SPACE (WITHIN LOD):

## T F C F N D

<u>LEGENI</u>	2				
	EXISTING PAVEMENT TO BE REMOVED	222	- PROPOSED CONTOUR	•	
	PROPOSED ASPHALT PAVEMENT	222	- EXISTING CONTOUR	• •	
	PROPOSED SIDEWALK / CONCRETE	21x20	SPOT GRADE		
	IMPERVIOUS AREA TREATED BY M-6, MICRO- BIORETENTION		n An Anna an Anna Anna Anna Anna Anna An		
Г — — — — — ] [ _ <u>р.а. мв_а</u> _ ]	DRAINAGE AREA TO M-6, MICRO-BIORETENTION				CATHY L WHITEHEAD-T ( TAX MAP 47 > PARCEL 232
	LIMIT OF DISTURBANCE				/ LOT 1
	SUPER SILT FENCE				L 01986 / F\0029 ZCNING: R-\2
MB-A	MICRO-BIORETENTION FACILITY (M-6) 1.D.				
SCE	STABILIZED CONSTRUCTION ENTRANCE	· · · · ·			216
	TRAFFIC FLOW				JAMES H BRATTEN
B^	ROOF DRAIN LEADER				TAX MAP 47
_ <u></u>	GUTTER FLOW DIRECTION			, ,	1  LOT 2 > 1
	PARKING SPACE COUNT				PLAT 7432 L 06661 / F 0062
UcD(D)		· · ·			ZONING: R-12
$f_{T} = D(D)$	SOIL TYPE BOUNDARY		· · · · ·		214
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GROUP	FACTOR NUMBER		TY 0-5% SLOPE	·	
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PARCEL 53		725		NISTRIES, INC.	· · · · · · · · · · · · · · · · · · ·
BETHEL ASSEM				ERHAUSEN ROAD	
SAVAGE			JESSUP, MA	RYLAND 20794	
9001 VOLLMERH				198-3344	
JESSUP, MARYL (301)498			<b>r</b>		
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APPROVED: DEPARTMEN	T OF PLANNING AND ZONING		ALL MARINE CONTRACTOR		PPROVED BY ME AND TH
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CHIEF, DEVELOPMENT ENG	SINEERING DIVISION J.P. D	ATE	· · · · · · · · · · · · · · · · · · ·		
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CHIEF, DIVISION OF LAND	DEVELOPMENT D	ATE TO	No 1009		
		11.	SONAL ENGINE		lin 10

0.53 Ac / 22,962 SF

0.38 Ac / 16,680 SF

0.13 Ac / 5,590 SF

0.02 Ac / 692 SF

1.19 Ac

JEF SLOMAN, P.E.

ESD METHOD

MARY HELEN REELEY

TAX MAP 47

ZONING: R-12

11

JAMES DEWEY

TAX MAP 47 PARCEL 818

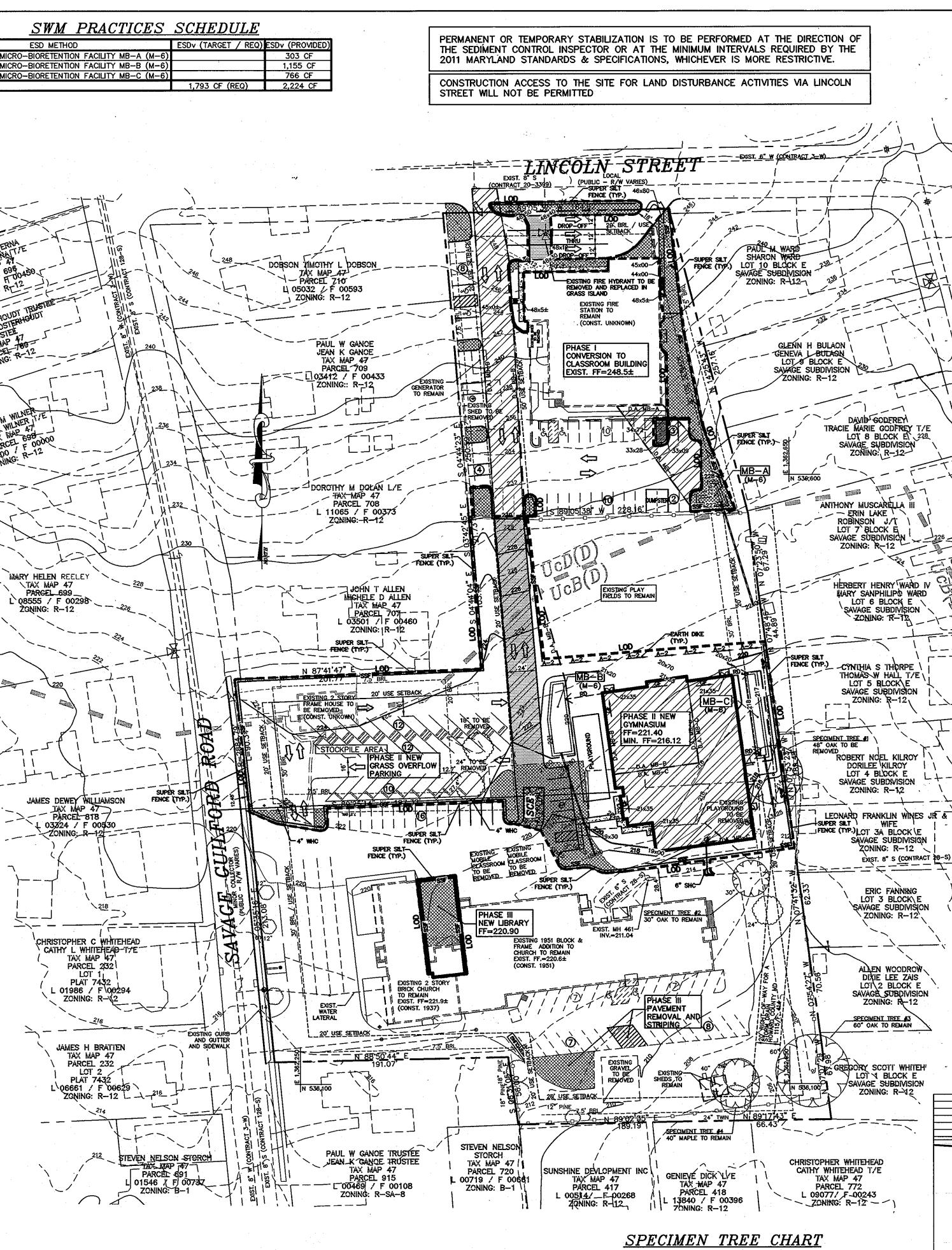
L 03324 / F 00530 ZONING: R-12

PARGEL\_699\_

08555 / F 00298

AREA

SITE



SPECIMEN TREE NO.	SPECIES	SIZE	CONDITION	TO REMAIN / TO BE REMOVED
1	OAK	48" DBH	FAIR	TO BE REMOVED
2	OAK	30" DBH	POOR	TO REMAIN
3	OAK	60" DBH	GOOD	TO REMAIN
4	MAPLE	40" DBH	GOOD	TO REMAIN

