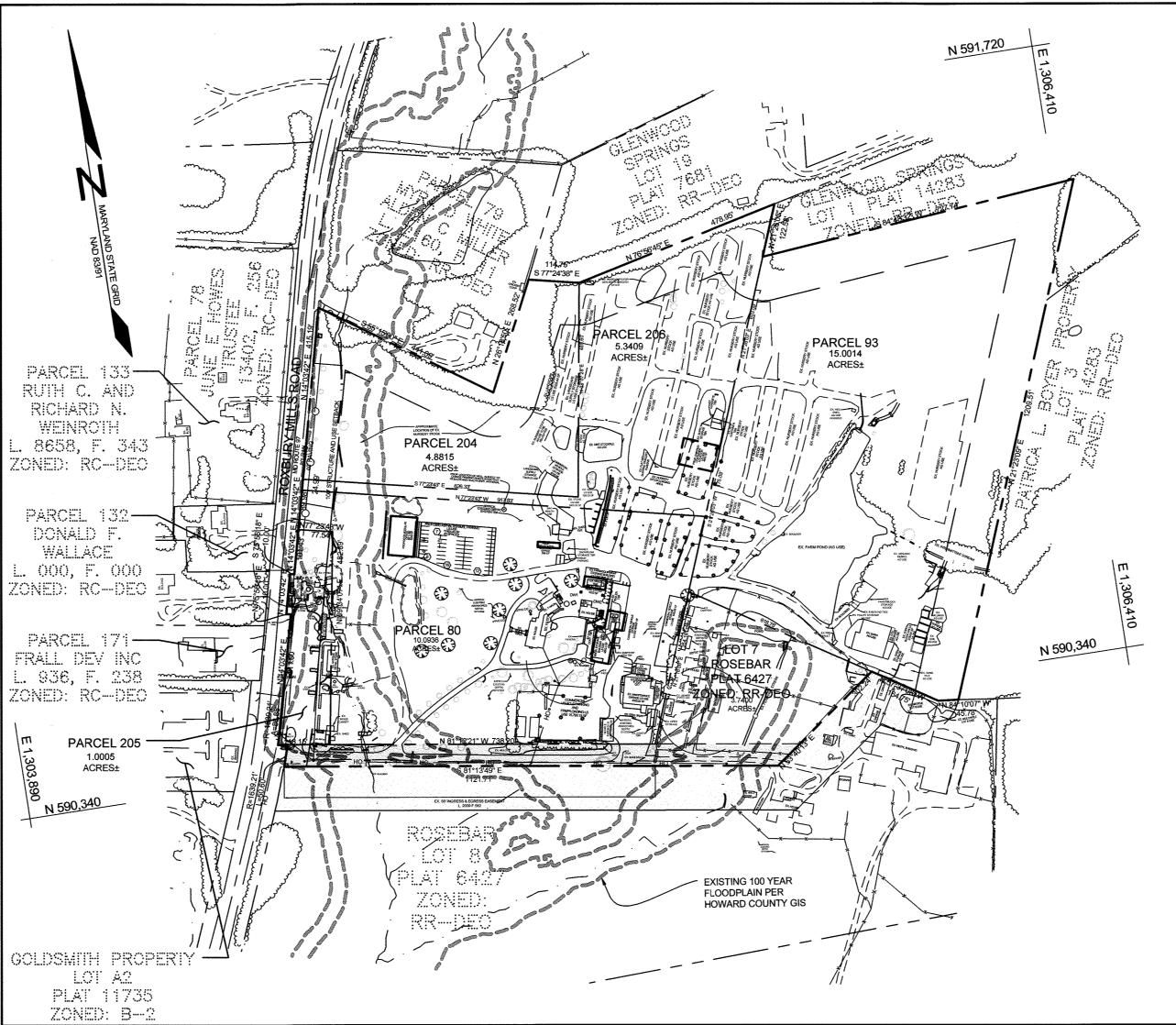
			,
jĿ	NERAL NOTES	· · · · · · · · · · · · · · · · · · ·	
۱.	SUBJECT PROPERTY ZONED RR COMPREHENSIVE ZONING PLAN	-DEO IN ACCORDANCE WITH THE OCTOBER 6, 2013	
	PROPERTY ADDRESS: 2955 E RC	DUTE 97, GLENWOOD, MARYLAND 21738.	
3.	REFERENCE: PARCEL 80:	LIBER 2009 FOLIO 562	
	PARCEL 205: PARCEL 93, 204, 206:	LIBER 6717 FOLIO 602 LIBER 6717 FOLIO 607	
	PARCEL 221/LOT 7:	LIBER 1420 FOLIO 207	
4.	PARCEL 221/LOT 8: PROPERTY AREAS	LIBER 1420 FOLIO 207	
	PARCEL 80: PARCEL 93:	10.0936 AC 15.0014 AC	
	PARCEL 204	4 8815 AC	
	PARCEL 205: PARCEL 206	1.0005 AC 5.3409 AC	
	PARCEL 221/LOT 7 PARCEL 221/LOT 8	3.7400 AC 20.003 AC	
_	TOTAL AREA:	60.060 AC	
5.		RIC DATA SHOWN FOR PARCELS 80, 93, 204, 205 AND 206 RMED BY SHANABERGER AND LANE IN MAY 2018.	
6.		IARD COUNTY GIS DATA FLOWN IN 2011. EON IS BASED ON HOWARD COUNTY GIS DATA FLOWN IN	
	2011.		
1.	CONTAINERS, AGRICULTURE AN	CONTRACTOR, MODULAR OFFICES, STORAGE ID RESIDENTIAL.	
8.	DPZ FILE HISTORY: - BA CASE NO. 860-C - GRE	ENHOUSE & GARDEN SHOP W/ 13 CONDITIONS. D&O	
	DATED MAY 16, 1976 (OR	IGINAL SPECIAL EXCEPTION CASE.) IDIFIED BA CASE NO. 860-C. D&O DATED JULY 14,	
	1983 (SUBSEQUENT CASI	E REVISED CONDITIONS OF APPROVAL FOR BA CASE NO.	
	860-C AND ADDED SE FO HISTORIC BUILDING.)	R RETAIL SALES OF ANTIQUES AND CRAFTS FROM	
		EXPAND MODIFY AN EXISTING BUSINESS OF A DR AND TO USE MODULAR OFFICES AND SHIPPING	
_	CONTAINERS FOR OFFIC	E SPACE AND STORAGE.	
9.	PARKING: EXISTING CONDITIONS:		
	- OFFICE SPACE = 3.3	SPACES PER 1,000 SF OF OFFICE SPACE. 1,215.13 SF x 3 / 1,000) = 4 SPACES.	
	- RETAIL SPACE = 5 S	PACES PER 1,000 SF OF RETAIL SPACE. 1,270.17 x (5 /	
	- EXISTING SPACES: 5		
	- PROPOSED SPACES FUTURE CONDITIONS:	45	
		CES: 5,340 OFFICE SPACE, 5,340 x (3.3 / 1,000) = 18 OFFICE EMPLOYEE PARKING INCLUDING 2	
		HANDICAP SPACES	
	- TOTAL REQUIRED: 18 - TOTAL PROVIDED: 43		
4			
	MILL ROAD.	CARPOOL AND UTILIZE THE PARKING ALONG ROXBURY	
	1. PRIVATE WELL AND SEPTIC AR 2. THE SOILS SHOWN HAVE BEEN	E USED FOR THIS SITE. TAKEN FROM THE US DEPARTMENT OF AGRICULTURE,	
1.		VATION SERVICE, WEB SOIL SURVEY WEBSITE. TED BY THE USE OF ANY OR ALL OF THE FOLLOWING:	SITE A
	ROAD CONSTRUCTION PLANS, I	FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND	ENVIRON
		AWINGS. APPROXIMATE LOCATION OF THE EXISTING CONTRACTORS INFORMATION. CONTRACTOR SHALL	TOTAL P
		ELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TIONS TO PROTECT THE EXISTING UTILITIES AND TO	ROW TO
	MAINTAIN UNINTERRUPTED SEF	RVICE. ANY DAMAGE INCURRED DUE TO THE	PROPOSE
	CONTRACTOR'S OPERATION SH EXPENSE.	IALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S	NUMBER OF
14		INFORMATION HAS BEEN TAKEN FROM THE US E, NATURAL RESOURCE CONSERVATION SERVICE, WEB	NUMBER OF LIMIT OF
	SOIL SURVEY WEBSITE AND FIE	LD INVESTIGATIONS. IF FUTURE INVESTIGATIONS SHOW	GREEN OP
		TIONS FOR ANY OF THE STORMWATER MANAGEMENT UNDERDRAINS WILL BE PROVIDED OR A DIFFERENT	PROPOSED
16	PRACTICE WILL BE SUBSTITUTE		REQUIRED
1.	GEODETIC CONTROL, WHICH IS	BASED ON THE MARYLAND STATE PLANE COORDINATE	PROVIDED
	SYSTEM. HOWARD COUNTY MO THIS PROJECT.	DNUMENTS NUMBERS 21BA AND 21CB WERE USED FOR	WETLA
16		GETATIVE COVER OR TREES, PAVING AND NEW ITTED WITHIN THE LIMITS OF WETLANDS, STREAMS, OR	FLO FLOODP
	THEIR REQUIRED BUFFERS, FL	OODPLAIN AND FOREST CONSERVATION EASEMENT	EXIST
		E BEEN APPROVED OR ACTIVITIES HAVE BEEN IE DEPARTMENT OF PLANNING AND ZONING.	FOREST
17		DELINEATION HAS BEEN COMPLETED AND NO FOREST AREA FOR THIS SITE. 100 YEAR FLOODPLAIN IS PRESENT	SLOPES GR
	ON SITE, AND THERE ARE STRE	EAMS ON SITE. THERE ARE NO STEEP SLOPES AND NO	SLOPES GR
		RE ARE NON-TIDAL WETLANDS ON SITE. NO RARE, D SPECIES, OR THEIR HABITATS, WERE OBSERVED ON	* NOTES:
		OUSE IS ON SITE AND LISTED AS HO-1750 JUDGE WILLIAM	1) SOIL IN
		. ALL STREAMS ON SITE ARE WITH THE USE-III-P IL CREEK IN THE BRIGHTON DAM DRAINAGE (02-13-11-08).	STATES
	ANY AND ALL FOREST CONSER	VATION REQUIRMENTS WILL BE MET ON SITE BY	2) HIGHLY GREAT
	REFORESTATION, AFFORESTA THE SDP STAGE.	TION AND OR RETENTION, AND WILL BE ADDRESSED AT	ERODIE
18		OWN IS TAKEN FROM DIGITAL FLOOD INSURANCE RATE	SLOPE
19	. LANDSCAPING WILL BE PROVID	DED IN ACCORDANCE WITH THE HOWARD COUNTY	
	LANDSCAPE MANUAL AND THE SHOWN AT THE SDP PHASE.	CONDITIONAL USE CASE CONDITIONS AND WILL BE	
	<u>,</u>	TORMWATER MANAGEMENT	
	-	NOTES & DESIGN NARRATIVE	
	SITE PER THE 2000 MARYLAND	THE STORMWATER MANAGEMENT REQUIREMENTS AND ACH STORMWATER DESIGN MANUAL, VOLUMES I AND II, AS AMEN	
	STORMWATER MANAGEMENT	ACT OF 2007.	
		TIVE AREAS HAVE BEEN AVOIDED WHERE POSSIBLE. THE LIN	
	AND ALL DEVELOPMENT A	CTIVITY IS OUTSIDE OF THE 100 YEAR FLOODPLAIN, STREAM	BUFFERS AND WETLAND
	2. TO THE GREATEST EXTEN	T PRACTICABLE THE NATURAL FLOW PATTERNS OF THE SITE BEEN REDUCED BY REMOVAL OF EXISTING IMPERVIOUS ARE	
	SIZE OF THE PROPOSED B	UILDING WHEREVER POSSIBLE.	
	4. A STABILIZED CONSTRUCT EROSION CONTROL.	ION ENTRANCE, SILT FENCES AND SUPER SILT FENCES ARE	USED AS SEDIMENT AND
	5. THE STORMWATER MANAG	SEMENT OBLIGATIONS FOR THESE PARCELS WILL BE MET BY N FACILITIES (M-6) AND NON-ROOFTOP DISCONNECTS (N-2.)	THE USE OF DRYWELLS
		IN THE WEY AND NON-NOUT OF DISCONNECTS (N-2.)	

ANALYSIS DATA SHEET MENTAL AREA SIZE OR USE ROJECT AREA 60.060 AC ± E DEDICATED 0.0 AC ± ROJECT AREA 1.9773 AC 1 NITS ALLOWE VITS PROPOSI STURBANCE 1.9773 AC ± AREA (LAWN 33.84 AC ± 0.7807 AC ± RESIDENTIA 18 SPACE 43 SPAC E CLEARE 0.0 AC ± 0.0 AC ±

FORMATION HAS BEEN TAKEN FROM THE UNITED S DEPARTMENT OF AGRICULTURE; NATURAL URCES CONSERVATION SERVICE; WEB SOIL SURVEY. ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE TER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL IBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A GREATER THAN 5 PERCENT.



STORMWATER MANAGEMENT PRACTICES				
ADDRESS MICRO- BIORETENTION M-6 (NUMBER)		DRYWELL M-5 (NUMBER)	NON-ROOF DISCONNE N-2 (Y/N)	
2955 EAST ROUTE 97	2	2	Y	

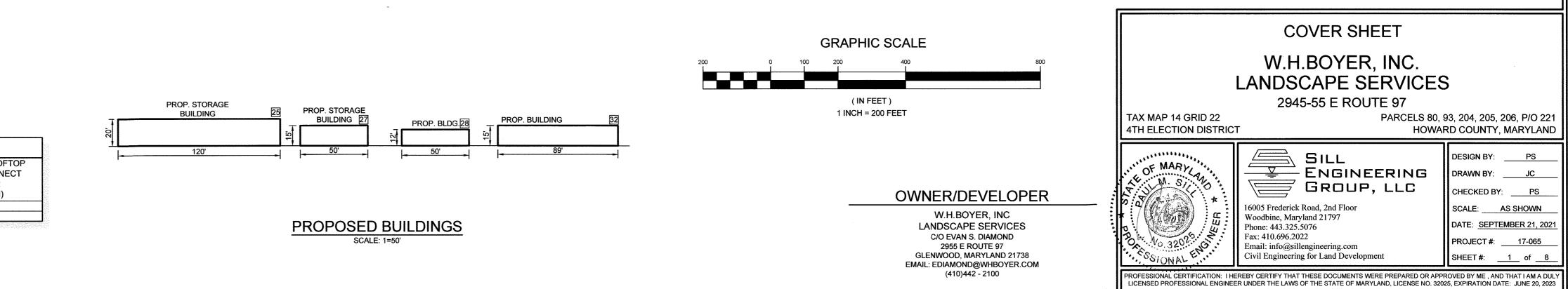
APPROVED: HOWARD COUNTY DEPARTMENT OF PLAT	NNING AND ZONING
DI I RI I	10 22 21
CHIEF, DEVELOPMENT ENGINEERING DIVISION	10.22.21 DATE
h	· dialzi
CHIEF, DIVISION OF LAND DEVELOPMENT ₩	DATE

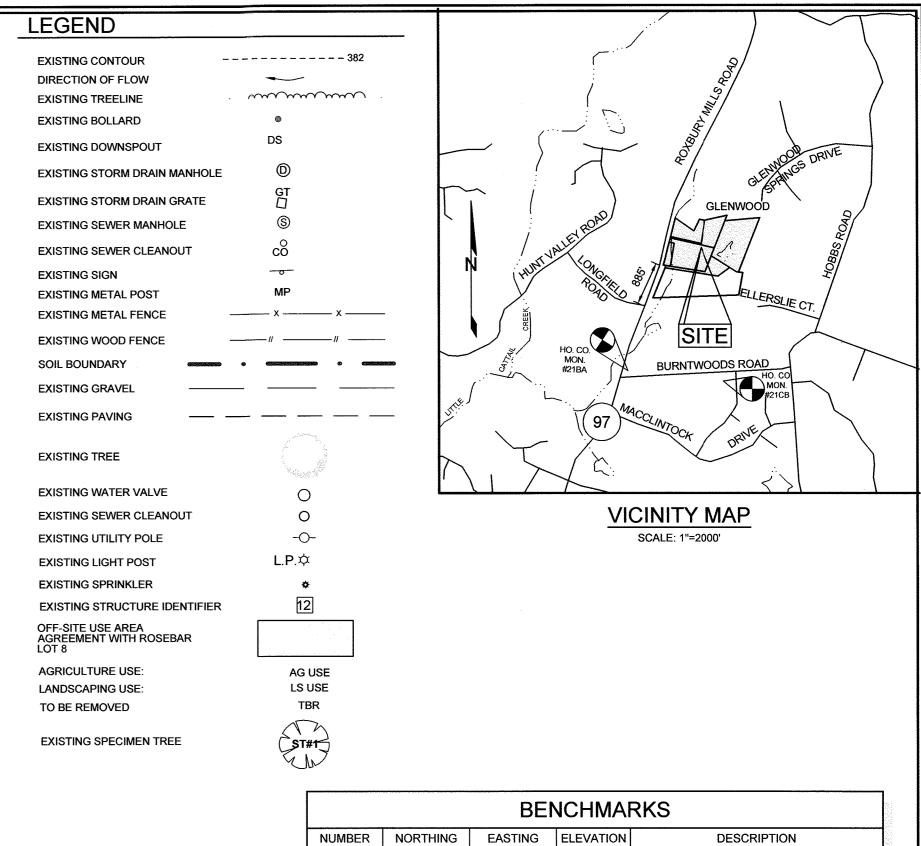
ENVIRONMENTAL CONCEPT PLAN WH BOYER, INC.

TAX MAP 14 PARCELS 80, 93, 204, 205, 206, AND P/O 221

HOWARD COUNTY, MARYLAND

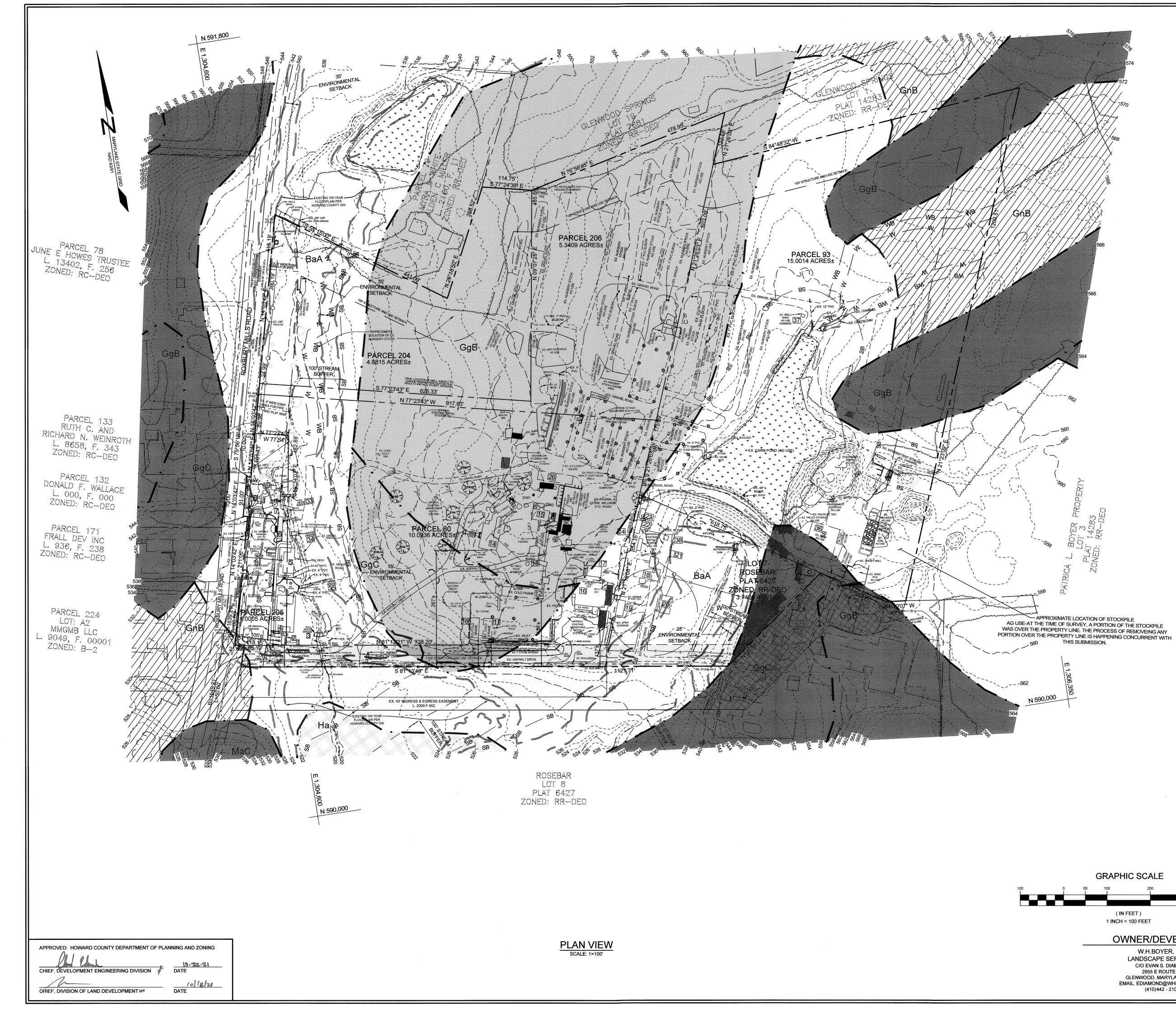
PLAN VIEW SCALE: 1=200'





BENCHMARKS					
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION	
21BA	588,125.189	1,303,655.381	532.02	18.7' NE OF STOP SIGN, 42.5' SW OF POST @ P 35.4' SW OF POST @ PT	
21CB	588,188.046	1,306,716.711	589.83	57.6' NW OF EXLECTIC BOX, 4' SW OF BURNTWOODS ROAD EDGE OF PAVING	

SHEET INDEX				
SHEET NO.	DESCRIPTION			
1	COVER SHEET			
2	EXISTING CONDITIONS, DEMOLITION PLAN AND SLOPE ANALYSIS			
3	FOREST STAND DELINEATION PLAN			
4	PROPOSED AND FUTURE CONDITIONS			
5	CONCEPTUAL GRADING PLAN			
6	SEDIMENT AND EROSION CONTROL PLAN			
7	STORMWATER MANAGEMENT ESD DRAINAGE AREA MAP			
8	STORMWATER MANAGEMENT DRAINAGE AREA MAP & DETAILS			



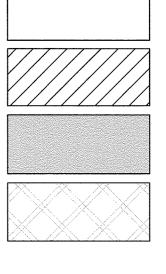
LEGEND

EXISTING CONTOUR		EXISTING WATER VALVE	0
DIRECTION OF FLOW		EXISTING SEWER CLEANOUT	0
EXISTING TREELINE		EXISTING UTILITY POLE	-0-
EXISTING BOLLARD	۲	EXISTING LIGHT POST	L.P.文
EXISTING DOWNSPOUT	DS	EXISTING SPRINKLER	\$
EXISTING STORM DRAIN MANHOLI	e O	EXISTING STRUCTURE IDENTIFIER	12
EXISTING STORM DRAIN GRATE	GT		
EXISTING SEWER MANHOLE	Ś	OFF-SITE USE AREA AGREEMENT WITH ROSEBAR	
EXISTING SEWER CLEANOUT	co	LOT 8 AGRICULTURE USE:	
EXISTING SIGN		LANDSCAPING USE:	AG USE LS USE
EXISTING METAL POST	MP	TO BE REMOVED	TBR
EXISTING METAL FENCE	x x		
EXISTING WOOD FENCE	······································	MODERATE SLOPES (15% TO 25%)	
SOIL BOUNDARY	ə ə (1125). 1210-c	EXISTING SPRINKLER	*
EXISTING GRAVEL			
EXISTING PAVING		EXISTING BUILDING TO BE REMOVED	
EXISTING TREE			
EXISTING SPECIMEN TREE	ST#1		

SOILS LEGEND HYDROLOGIC SOIL GROUP 'C/D'

HYDROLOGIC SOIL GROUP 'C'

HYDROLOGIC SOIL GROUP 'B'



HYDROLOGIC SOIL GROUP B/D

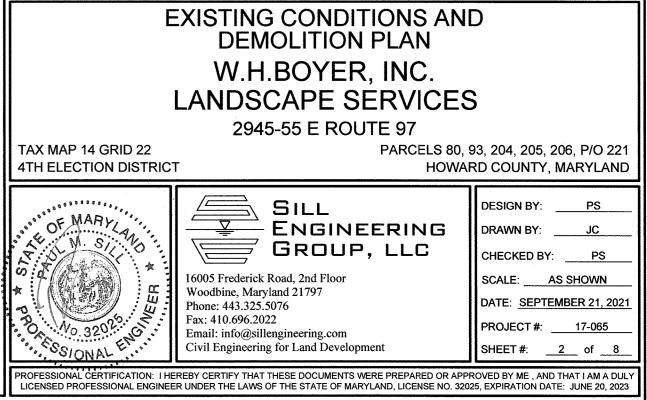
SOILS LEGEND					
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR		
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.37		
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	В	0.20		
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	В	0.24		
GnB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	С	0.43		
На	HATBORO-CODORUS SILT LOAM, 0 TO 3 PERCENT SLOPES	B/D	0.37		
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	В	0.24		
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	В	0.24		

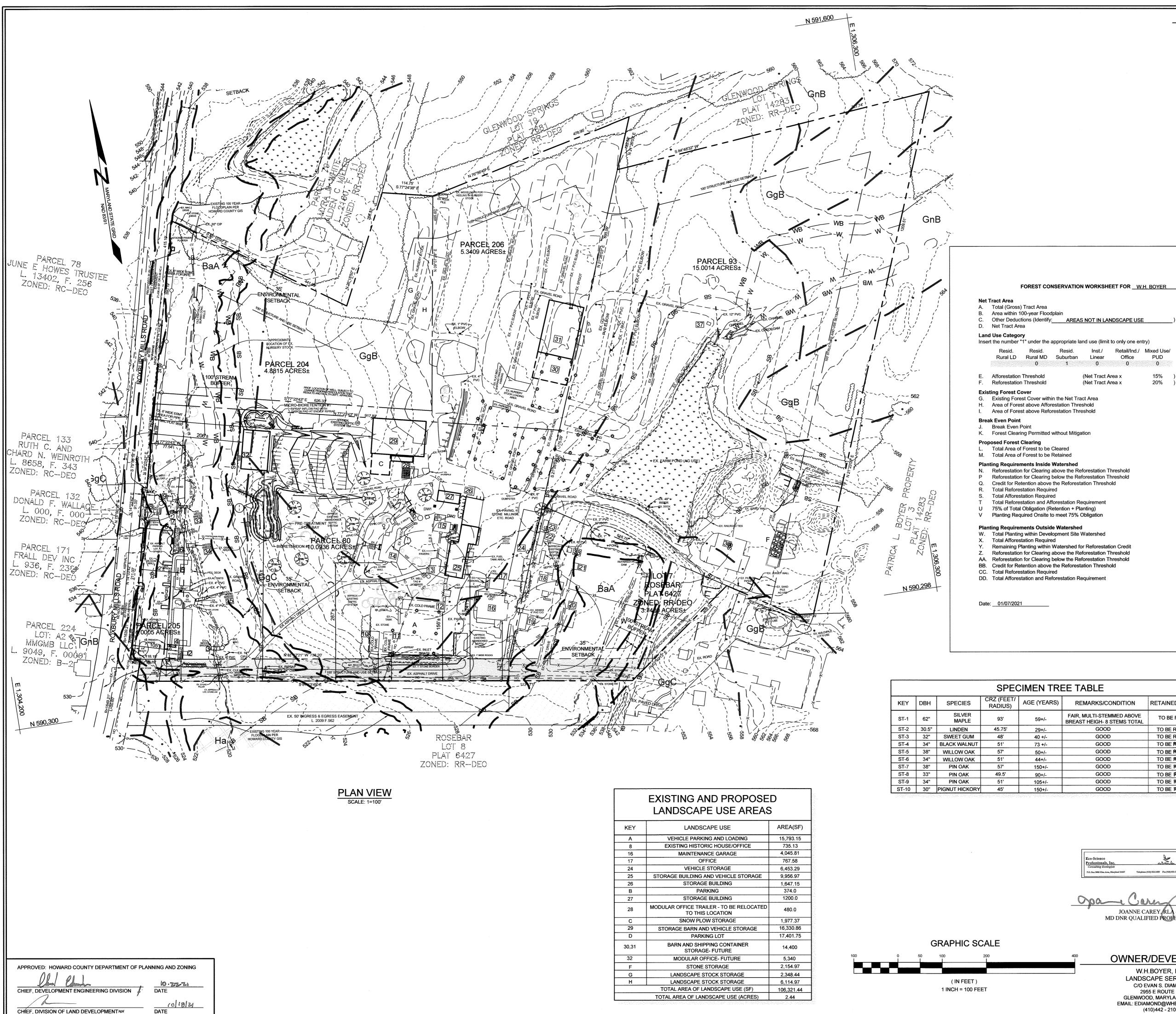
NOTES:

1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE; NATURAL RESOURCES CONSERVATION SERVICE; WEB SOIL SURVEY. 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

NOTE: FOR STRUCTURE CHART SEE PROPOSED & FUTURE CONDITIONS PLAN, SHEET 4.

GRAPHIC SCALE					
50 100 200	400 TA				
(IN FEET)					
1 INCH = 100 FEET					
OWNER/DEVELOPER	SZ SZ				
W.H.BOYER, INC	\$				
LANDSCAPE SERVICES C/O EVAN S. DIAMOND					
2955 E ROUTE 97 GLENWOOD, MARYLAND 21738					
EMAIL: EDIAMOND@WHBOYER.COM (410)442 - 2100					





KEY	LANDSCAPE USE	AREA(SF)
A	VEHICLE PARKING AND LOADING	15,793.15
8	EXISTING HISTORIC HOUSE/OFFICE	735.13
16	MAINTENANCE GARAGE	4,045.81
17	OFFICE	767.58
24	VEHICLE STORAGE	6,453.29
25	STORAGE BUILDING AND VEHICLE STORAGE	9,956.97
26	STORAGE BUILDING	1,647.15
В	PARKING	374.0
27	STORAGE BUILDING	1200.0
28	MODULAR OFFICE TRAILER - TO BE RELOCATED TO THIS LOCATION	480.0
С	SNOW PLOW STORAGE	1,977.37
29	STORAGE BARN AND VEHICLE STORAGE	16,330.86
D	PARKING LOT	17,401.75
30,31	BARN AND SHIPPING CONTAINER STORAGE- FUTURE	14,400
32	MODULAR OFFICE- FUTURE	5,340
F	STONE STORAGE	2,154.97
G	LANDSCAPE STOCK STORAGE	2,348.44
Н	LANDSCAPE STOCK STORAGE	6,114.97
	TOTAL AREA OF LANDSCAPE USE (SF)	106,321.44
	TOTAL AREA OF LANDSCAPE USE (ACRES)	2.44

SPECIMEN TREE TABLE							
KEY	DBH	SPECIES	CRZ (FEET/ RADIUS)	AGE (YEARS)	REMARKS/CONDITION	RETAINED/REMOVED	
ST-1	62"	SILVER MAPLE	93'	59+/-	FAIR, MULTI-STEMMED ABOVE BREAST HEIGH- 8 STEMS TOTAL	TO BE RETAINED	
ST-2	30.5"	LINDEN	45.75'	29+/-	GOOD	TO BE RETAINED	
ST-3	32"	SWEET GUM	48'	40 +/-	GOOD	TO BE RETAINED	
ST-4	34"	BLACK WALNUT	51'	73 +/-	GOOD	TO BE RETAINED	
ST-5	38"	WILLOW OAK	57'	50+/-	GOOD	TO BE RETAINED	
ST-6	34"	WILLOW OAK	51'	44+/-	GOOD	TO BE RETAINED	
ST-7	38"	PIN OAK	57'	150+/-	GOOD	TO BE RETAINED	
ST-8	33"	PIN OAK	49.5'	90+/-	GOOD	TO BE RETAINED	
ST-9	34"	PIN OAK	51'	105+/-	GOOD	TO BE RETAINED	
ST-10	30"	PIGNUT HICKORY	45'	150+/-	GOOD	TO BE RETAINED	

Inst./

Linear

Retail/Ind./ Mixed Use/

Office

0

PUD

15%

20%)

) E = 0.40) F = 0.50

0.00

J = 0.00K = 0.00

L = <u>0.00</u> M = <u>0.00</u>

0.00

0.40

0.30

0.40

0.00

0.00

0.00 0.40

W= 0.00

Z=

AA=

BB=

CC=

DD=

0

LE	GEND			· · · · · · · · · · · · · · · · · · ·
EX	(ISTING CONTOUR	382	EXISTING WATER VALVE	0
DIF	RECTION OF FLOW		EXISTING SEWER CLEANOUT	0
EX	(ISTING TREELINE		EXISTING UTILITY POLE	-0-
EX	(ISTING BOLLARD	٠	EXISTING LIGHT POST	L.P.¢
EX	KISTING DOWNSPOUT	DS	EXISTING SPRINKLER	¢
EX	(ISTING STORM DRAIN MANHOLE	D	EXISTING STRUCTURE IDENTIFIER	12
EX	(ISTING STORM DRAIN GRATE	GT	OFF-SITE USE AREA AGREEMENT WITH ROSEBAR	
EX	(ISTING SEWER MANHOLE	S	LOT 8	
EX	(ISTING SEWER CLEANOUT	cõ	AGRICULTURE USE:	AG USE
	(ISTING SIGN		LANDSCAPING USE: TO BE REMOVED	LS USE TBR
	(ISTING METAL POST	MP	TO BE REMOVED	IDR
	(ISTING METAL FENCE —	x x	EXISTING SPRINKER	\$
	(ISTING WOOD FENCE -		EXISTING SPECIMEN TREE	ST#1
so	DIL BOUNDARY			EM
EX	(ISTING GRAVEL			
EX				
EX	KISTING TREE			

SIMPLIFIED FOREST STAND DELINEATION/EXISTING CONDITION NARRATIVE

THE SUBJECT PROPERTY IS CURRENTLY UTILIZED FOR A VARIETY OF USES. THE PROPERTY INCLUDES SEVERAL RESIDENTIAL USES, COMMERCIAL/RETAIL USES, AGRICULTURAL USE AND LANDSCAPED BEDS. A STREAM SYSTEM FLOWS PARALLEL TO ROUTE 97, FLOWING FROM NORTH TO SOUTH, AREAS EAST OF THE STREAM ARE MAINTAINED FOR RESIDENTIAL, AGRICULTURAL AND LANDSCAPE USES. THREE EXISTING HOMES ARE PRESENT ON THE PROPERTY. EACH HOME HAS A SURROUNDING LAWN AREA, DRIVEWAYS AND ASSOCIATED RESIDENTIAL USE AREAS.

MUCH OF THE BALANCE OF THE SITE IS PRIMARILY UTILIZED FOR AGRICULTURAL USES ASSOCIATED WITH THE PRODUCTION OF NURSERY STOCK. THESE AREAS INCLUDE NURSERY FIELDS, STAGING/STORAGE AREAS, TOPSOIL STORAGE AREAS AND SEVERAL IRRIGATION PONDS.

SCATTERED AREAS WITHIN THE ACTIVE NURSERY PORTION OF THE PROPERTY HAVE BEEN IDENTIFIED AS LANDSCAPE USES. THESE AREAS ARE DEFINED BY THEIR PRIMARY FUNCTION IN SUPPORTING THE LANDSCAPE SERVICES PROVIDED BY THE W.H. BOYER LANDSCAPE SERVICES. LANDSCAPE USES INCLUDE EMPLOYEE PARKING, MATERIAL STORAGE, EQUIPMENT STORAGE, OFFICES, VEHICLE STORAGE, MAINTENANCE FACILITIES AND ACCESS AND STAGING AREAS.

THE PROPERTY HAS LIMITED NATURAL AREAS THAT HAVE NOT BEEN IMPACTED BY THE ACTIVE SITE USES. A SMALL PORTION OF THE PROPERTY, 0.8 ACRES, IN THE NORTH WEST CORNER OF THE SITE IS FORESTED. THIS FOREST COMMUNITY IS SURROUNDED BY OPEN FIELDS AND NURSERY FIELDS. SEVERAL STREAMS ARE PRESENT ON THE SITE. SEVERAL OF THE STREAMS HAVE BEEN DAMMED TO SUPPORT IRRIGATION PONDS PRESENT ON THE SITE. ALL OF THE STREAMS ON THE SITE ARE WITH THE USE III-P WATERSHED OF LITTLE CATTAIL CREEK IN THE BRIGHTON DAM DRAINAGE (02-13-11-08).

FOREST CONSERCATION ACT COMPLIANCE

IT IS OUR UNDERSTANDING THAT PORTIONS OF THE PROPERTY ARE BEING PROPOSED TO OBTAIN CONDITIONAL USE APPROVAL FOR LANDSCAPE USES. THE PROPOSED SITE IMPROVEMENTS FOR THIS USE WILL BE SUBJECT TO THE FOREST CONSERVATION ACT. THE AREA DEFINED AS LANDSCAPE USE IS 2.4 ACRES. NO EXISTING FOREST IS PRESENT WITHIN THIS AREA AND THEREFORE IT WOULD BE SUBJECT TO THE AFFORESTATION REQUIREMENTS OF THE FCA.

NOTES

1. THE ASSESSMENT WAS PERFORMED TO DETERMINE THE NATURE AND EXTENT OF REGULATED RESOURCES WITHIN THE EXISTING/PROPOSED LANDSCAPE USE AREAS.

2. WETLANDS, STREAMS AND BUFFERS ARE PRESENT ON THE SITE. NO NEW DEVELOPMENT IS PROPOSED WITHIN ANY OF THESE SITE CONSTRAINT AREAS. EXISTING PARKING AND MODULAR TRAILER PRESENT WITHIN A STREAM BUFFER WILL BE REMOVED AND STABILIZED. THE EXISTING OFFICE BUILDING/HOUSE (SITE KEY 8) IS WITHIN THE STREAM BUFFER.

3. SPECIMEN TREES ARE PRESENT ON THE SITE. THE LOCATION SIZE AND CONDTITION OF EACH TREE IS SHOWN HEREON. THE INTENT OF THE OWNER IS TO RETAIN THESE TREES DURING THE DEVELOPMENT PROCESS

4. NO RARE, THREATENED OR ENDANGERED SPECIES ARE KNOWN TO BE PRESENT ON THE SITE.

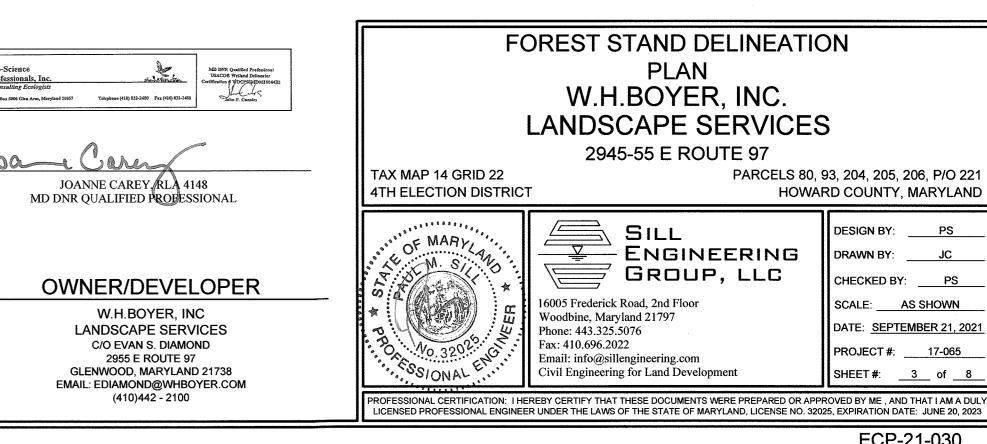
5. 100 YEAR FLOODPLAIN IS PRESENT ON THE SITE.

6. NO CEMETERIES ARE KNOWN TO OCCUR ON THE SITE. THE BUILDING AT 2945 ROXBURY MILLS ROAD (SITE KEY 8) IS LISTED AS HO-1750 JUDGE WILLIAM MATHEWS HOUSE BY THE MARYLAND HISTORIC TRUST. 7. NO STEEP SLOPES ARE PRESENT ON THE SITE.

8. NO FOREST IS PRESENT WITHIN THE EXISTING OR PROPOSED LANDSCAPE USE AREA HIGHLIGHTED ON THE PLAN. THE LANDSCAPE USE AREA TOTAL IS 2.4 ACRES OF THE SITE. THIS AREA WOULD GENERATE A 0.5 ACRE AFFORESTATION REQUIREMENT BASED ON THE EXISTING ZONING.

9. ANY AND ALL FOREST CONSERVATION REQUIRMENTS WILL BE MET ON SITE.

NOTE: FOR STRUCTURE CHART SEE PROPOSED & FUTURE CONITIONS PLAN, SHEET 5.



HOWARD COUNTY, MARYLAND

DRAWN BY:

DESIGN BY: PS

CHECKED BY: PS

SCALE: AS SHOWN

DATE: SEPTEMBER 21, 2021

PROJECT #: 17-065

SHEET #: <u>3</u> of <u>8</u>

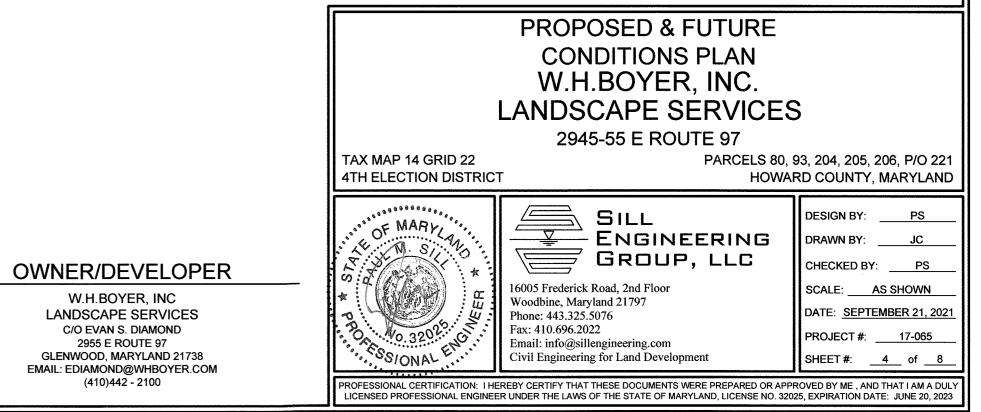
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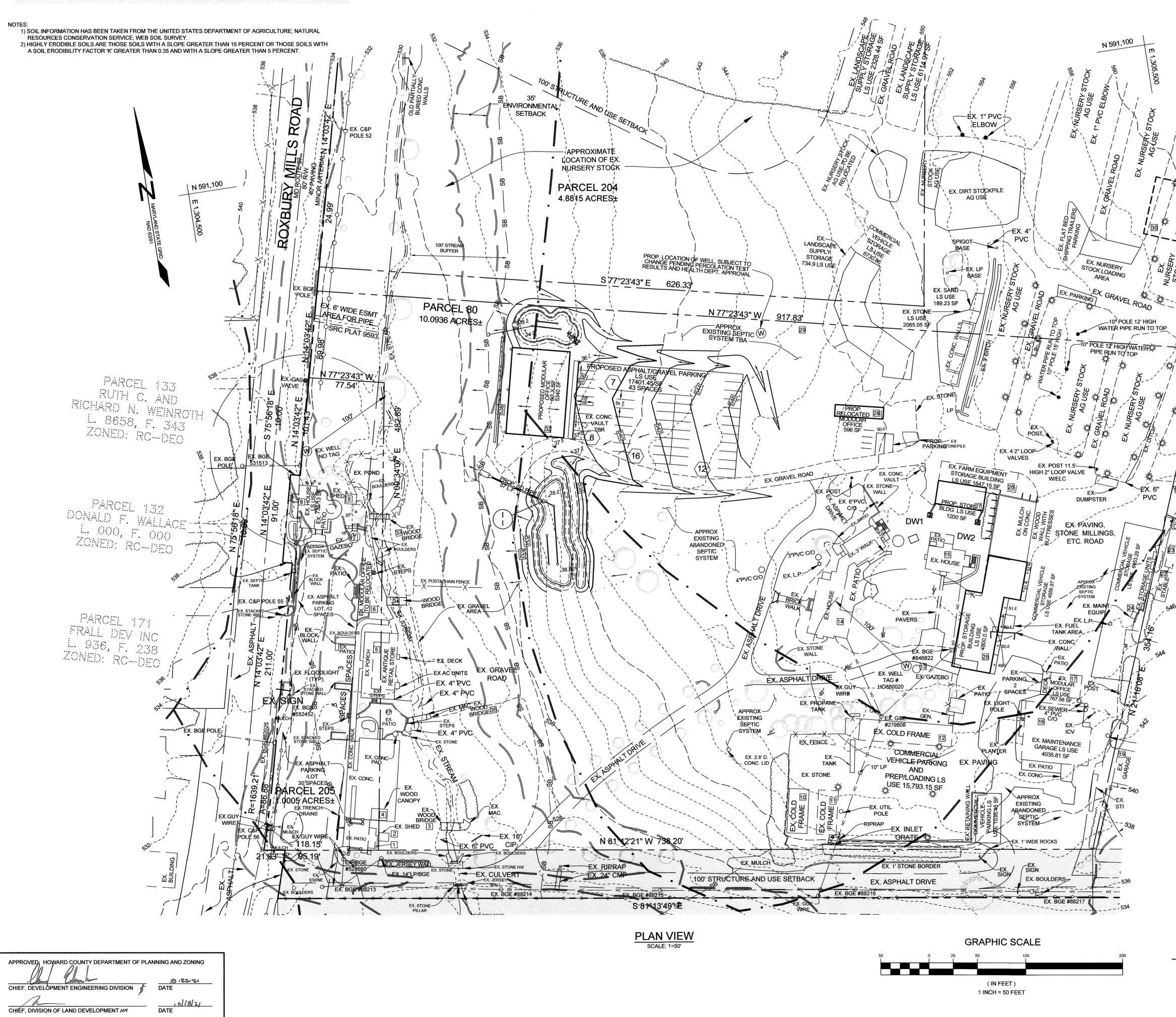
CHIEF, DIVISION OF LAND DEVELOPMENT

EGEND	
EXISTING CONTOUR -	
DIRECTION OF FLOW	
EXISTING TREELINE	
EXISTING BOLLARD	8
EXISTING DOWNSPOUT	DS
EXISTING STORM DRAIN MANHOLE	Ø
EXISTING STORM DRAIN GRATE	GT
EXISTING SEWER MANHOLE	S
EXISTING SEWER CLEANOUT	co
EXISTING SIGN	
EXISTING METAL POST	MP
EXISTING METAL FENCE	X X
EXISTING WOOD FENCE	
SOIL BOUNDARY	
EXISTING GRAVEL	
EXISTING PAVING	<u> </u>
EXISTING TREE	
EXISTING WATER VALVE	0
EXISTING SEWER CLEANOUT	0
EXISTING UTILITY POLE	-0-
EXISTING LIGHT POST	L.P.¢
EXISTING SPRINKLER	\$
EXISTING STRUCTURE IDENTIFIER	12
OFF-SITE USE AREA AGREEMENT WITH ROSEBAR LOT 8	
AGRICULTURE USE:	AG USE
LANDSCAPING USE:	LS USE
TO BE REMOVED	TBR
EXISTING SPRINKER	بلا
EXISTING SPECIMEN TREE	ST#1

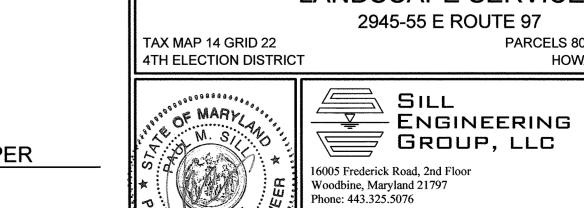
	1			PREV. APPROV.	PROPOSED NEW	
DESCRIPTION	USE	SIZE	HEIGHT	UNDER BA #860-C	USE	PHASE
EXISTING TRAILER	SNOWBALL STAND	151.94 SF	7'	-	-	N/A
EXISTING METAL SHED	SNOWBALL SUPPLIES	87.56 SF	7'	-	-	N/A
EXISTING WOOD BRIDGE	TO CROSS STREAM	10.26 FT x 8.54 FT	4'	YES	-	N/A
EXISTING WOOD CANOPY	SHADE FOR SNOWBALL CUSTOMERS	192.25 SF	10'	-	-	N/A
EXISTING BUILDING	RETAIL STORE	1270.17 SF	16'	-	-	N/A
EXISTING MODULAR BUILDING	OFFICE	596 SF	12'	-	-	N/A
EXISTING. GAZEBO	OUTDOOR MEETINGS/LUNCH/SALES	115.33 SF	12'	-	-	N/A
EXISTING HOUSE	OFFICE	735.13 SF	22'	YES	-	N/A
EXISTING SHED	TRASH CANS	119.31 SF	11'	-	-	N/A
EXISTING COLD FRAME	OVERWINTERING PLANTS	836.20 SF	9'	-	-	N/A
EXISTING COLD FRAME	OVERWINTERING PLANTS	833.54 SF	9'	-	-	N/A
EXISTING COLD FRAME	OVERWINTERING PLANTS	2107.44 SF	9'	-	-	N/A
EXISTING. GAZEBO	LOOKS NOT USED	52.19 SF	9'	-	-	N/A
EXISTING HOUSE	HOME	3345.25 SF	15'	YES	-	N/A
EXISTING HOUSE	HOME	982.64 SF	14'	YES	-	N/A
EXISTING MAINTENANCE GARAGE	GARAGE	4035.81 SF	12'	-	-	N/A
MODULAR BUILDING	OFFICE	767.58 SF	11'	-	-	N/A
EXISTING HOUSE	HOME	2133.73 SF	14'	-	-	N/A
EXISTING GARAGE	GARAGE	357.42 SF	14'	-	-	N/A
EXISTING BUILDING	GARAGE	1095.66 SF	12'	-	-	N/A
EXISTING HORSE CANOPY	SHADE	133.7 SF	8'	-	-	N/A
EXISTING STABLE	STABLE	362.28 SF	10'	-	-	N/A
EXISTING CARPORT	EQUIPMENT	240.22 SF	9'	-	-	N/A
EXISTING SHED	MAINTENANCE EQUIPMENT	31.28 SF	8'	-	-	N/A
PROPOSED STORAGE BUILDING	STORAGE	4512.21 SF	13'	-	YES	1
EXISTING STORAGE BUILDING	FARM EQUIPMENT STORAGE	1647.15 SF	13'	-	-	N/A
PROPOSED STORAGE BUILDING	STORAGE	1200 SF	25'	-	YES	1
PROPOSED RELOCATED MODULAR OFFICE	OFFICE	596 SF	12'	-	YES	N/A
FUTURE BARN	RES. EQUIPMENT AND PROD.	9600 SF	25'	-	-	2
PROPOSED CONTAINER STORAGE	CONTAINER STORAGE	4800 SF	11'	-	YES	1
FUTURE BARN	NURSERY EQUIP. AND PROD.	9600 SF	25'	-	-	2
FUTURE MODULAR BUILDING	OFFICE	5340 SF	23'	-	YES	2
EXISTING WOOD BRIDGE	CROSS STREAM	5.16 FT x 19.83 FT	4'	YES	-	N/A
EXISTING WOOD BRIDGE	CROSS STREAM	8.52 FT x 20.61 FT	4'	YES	-	N/A
EXISTING WOOD BRIDGE	CROSS STREAM	5.64 FT x 19.43 FT	4'	YES	-	N/A
EXISTING BARN	STORAGE	5125.07 SF	23'	-	-	N/A
EXISTING WELL SHED	STORAGE	51.68 SF	8'	-	-	N/A
EXISTING SHED	STORAGE	100 SF	7'	-	-	N/A



SOILS LEGEND				
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR	
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.37	
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	В	0.20	
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	В	0.24	
GnB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	С	0.43	
На	HATBORO-CODORUS SILT LOAM, 0 TO 3 PERCENT SLOPES	B/D	0.37	
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	В	0.24	
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	В	0.24	



LEGEND EXISTING CONTOUR PROPOSED CONTOUR 382 EXISTING SPOT ELEVATION 382.3 PROPOSED SPOT ELEVATION + 82<u>53</u> DIRECTION OF FLOW \cdots EXISTING TREELINE PROPOSED TREELINE LIGHT POLES 🌣 POST TOP OVERHEAD 🛛 🔻 BOLLARD STABILIZED CONSTRUCTION ENTRANCE SCEAR. SILT FENCE SUPER SILT FENCE EARTH DIKE LIMIT OF DISTURBANCE **FC**M EROSION CONTROL MATTING SOIL BOUNDARY RRP **RIP-RAP INFLOW PROTECTION** EXISTING SPRINKER ۰ ヘト EXISTING SPECIMEN TREE ST#1 EM



No. 3202

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CONCEPTUAL GRADING PLAN W.H.BOYER, INC. LANDSCAPE SERVICES 2945-55 E ROUTE 97 PARCELS 80, 93, 204, 205, 206, P/O 221 HOWARD COUNTY, MARYLAND DESIGN BY: PS SILL

Fax: 410.696.2022

Email: info@sillengineering.com

Civil Engineering for Land Development

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. 32025, EXPIRATION DATE: JUNE 20, 2023

OWNER/DEVELOPER W.H.BOYER, INC LANDSCAPE SERVICES C/O EVAN S. DIAMOND

2955 E ROUTE 97 GLENWOOD, MARYLAND 21738 EMAIL: EDIAMOND@WHBOYER.COM (410)442 - 2100

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DRAWN BY: _____JC

CHECKED BY: _____PS___

SCALE: AS SHOWN

DATE: SEPTEMBER 21, 202

PROJECT #: ____17-065

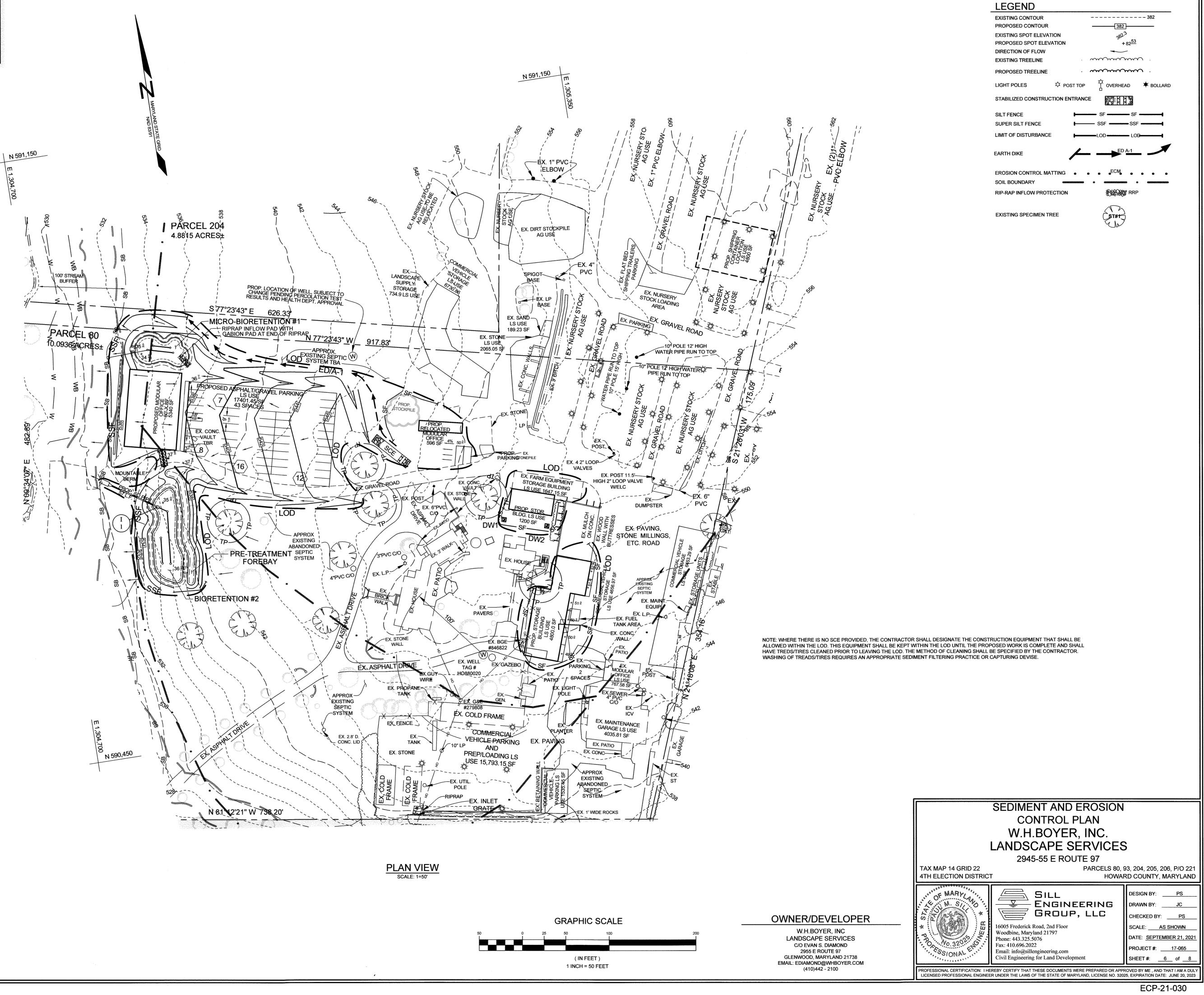
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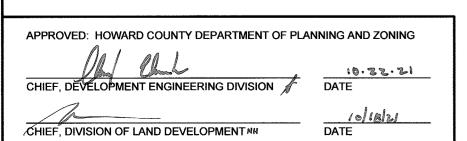
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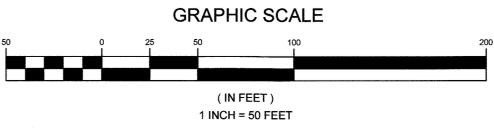
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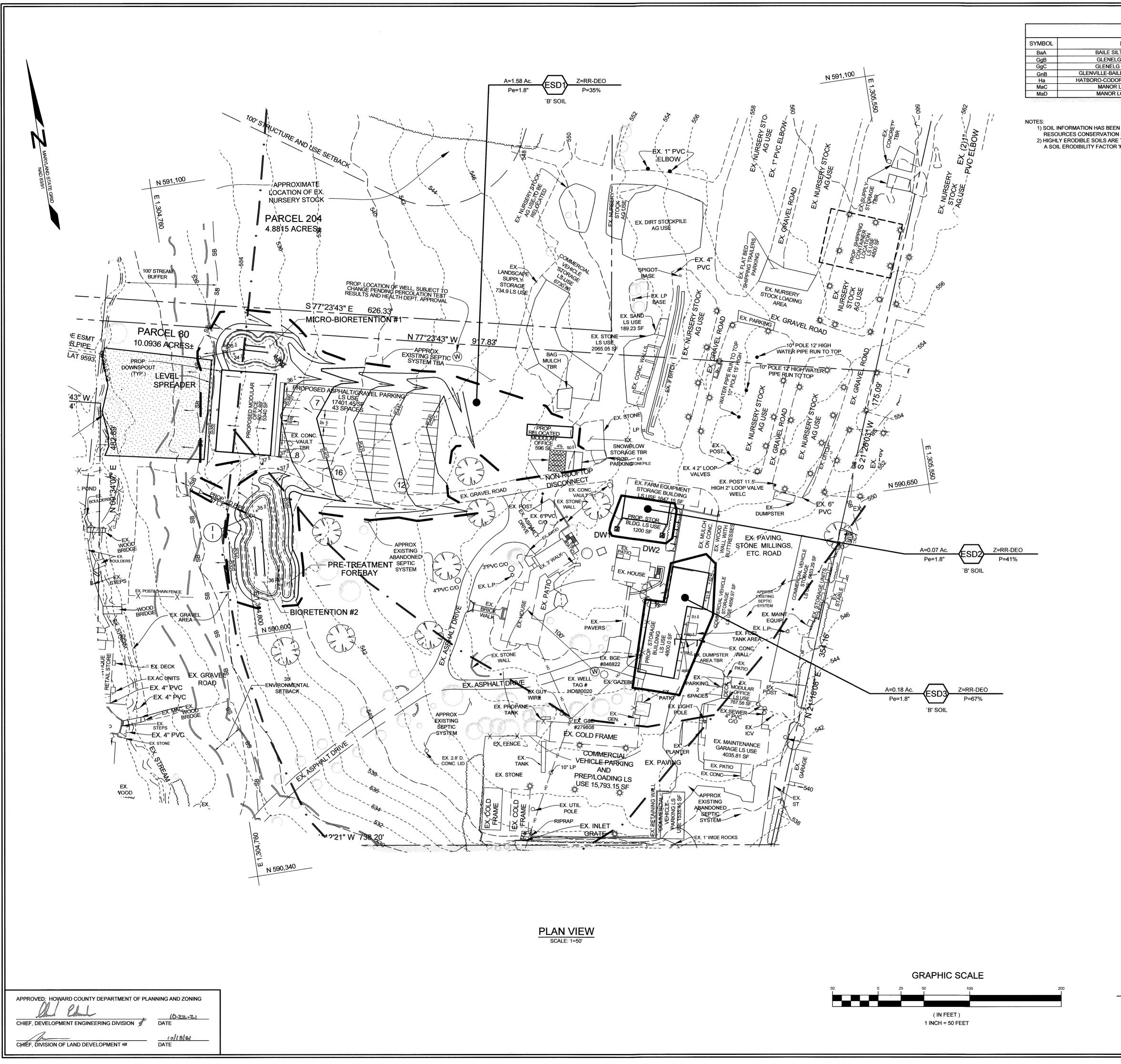
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2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.









			-
SOILS LEGEND			
NAME / DESCRIPTION	GROUP	'K' FACTOR	988680 J.J
LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.37]
LOAM, 3 TO 8 PERCENT SLOPES	В	0.20	
LOAM, 8 TO 15 PERCENT SLOPES	В	0.24	
E SILT LOAMS, 0 TO 8 PERCENT SLOPES	С	0.43	100
RUS SILT LOAM, 0 TO 3 PERCENT SLOPES	B/D	0.37	
OAM, 8 TO 15 PERCENT SLOPES	В	0.24	(1997) (1997)
OAM, 15 TO 25 PERCENT SLOPES	В	0.24	T

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LEGEND
EXISTING CONTOUR
PROPOSED CONTOUR
EXISTING SPOT ELEVATION 382.3
PROPOSED SPOT ELEVATION $+ 82^{53}$
DIRECTION OF FLOW
EXISTING TREELINE
PROPOSED TREELINE
LIGHT POLES OVERHEAD SOLLARD
STABILIZED CONSTRUCTION ENTRANCE
SILT FENCE SF
SUPER SILT FENCE SSF
LIMIT OF DISTURBANCE
EROSION CONTROL MATTING • • • ECM • • •
SOIL BOUNDARY CONCERNMENT OF CONCERNMENT
EXISTING SPECIMEN TREE
SITE AREA TABLE *

* -SITE AREA EQUALS THE LIMIT OF DISTURBANCE

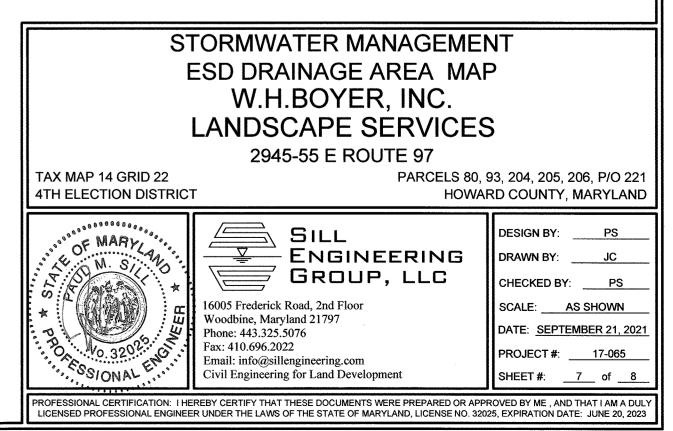
SITE AREAS AREA (AC.) IMPERVIOUS (AC.)

0.07

0.18

ESD 1 1.58

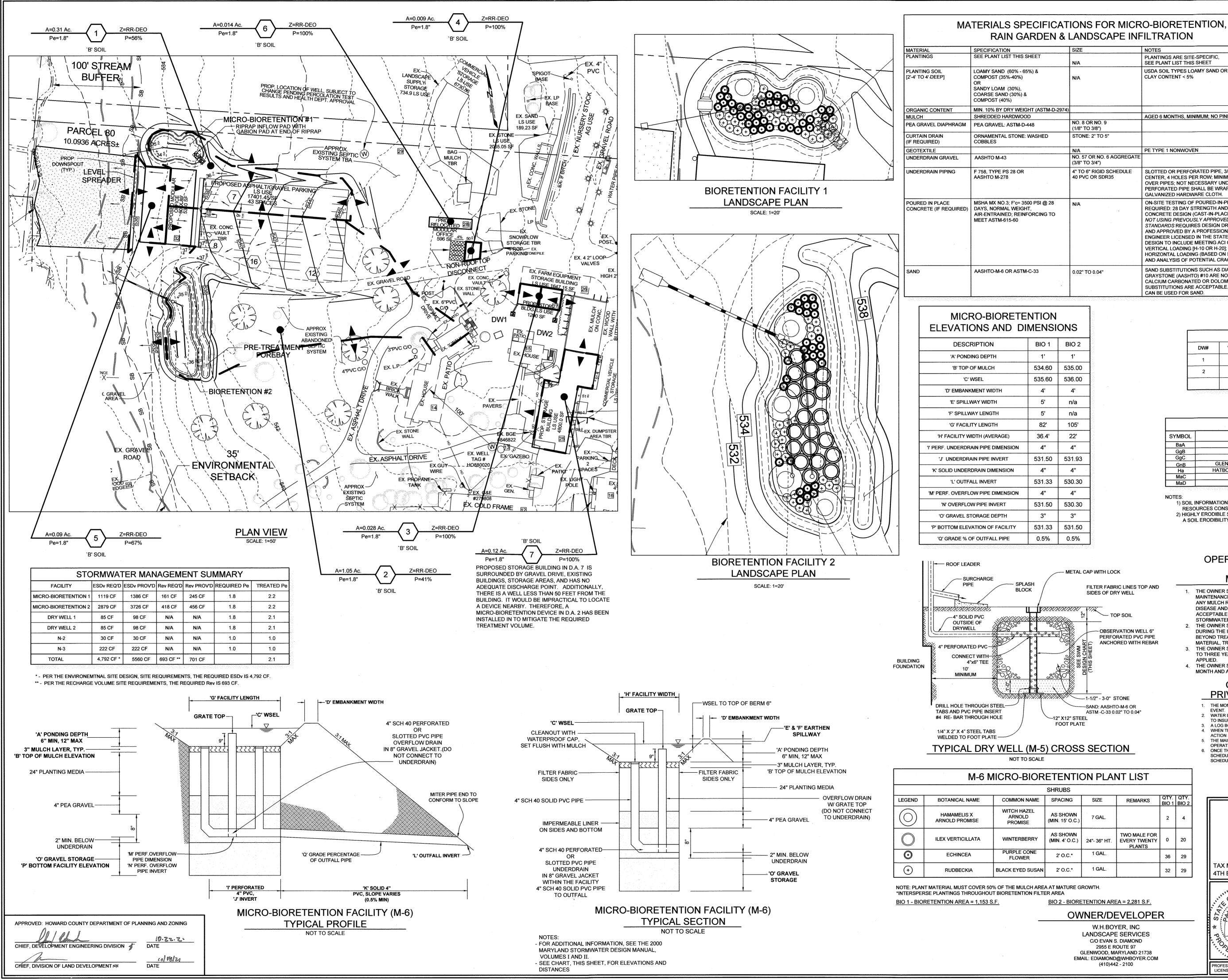
ESD 2



ECP-21-030

OWNER/DEVELOPER W.H.BOYER, INC LANDSCAPE SERVICES

C/O EVAN S. DIAMOND 2955 E ROUTE 97 GLENWOOD, MARYLAND 21738 EMAIL: EDIAMOND@WHBOYER.COM (410)442 - 2100



	SIZE	NOTES
т	N/A	PLANTINGS ARE SITE-SPECIFIC, SEE PLANT LIST THIS SHEET
k .	N/A	USDA SOIL TYPES LOAMY SAND OR SANDY LOAM; CLAY CONTENT < 5%
ASTM-D-2974)		
		AGED 6 MONTHS, MINIMUM; NO PINE OR WOOD CHIPS
	NO. 8 OR NO. 9 (1/8" TO 3/8")	
HED	STONE: 2" TO 5"	
	N/A	PE TYPE 1 NONWOVEN
- - -	NO. 57 OR NO. 6 AGGREGATE (3/8" TO 3/4")	
	4" TO 6" RIGID SCHEDULE 40 PVC OR SDR35	SLOTTED OR PERFORATED PIPE, 3/8" PERF. @ 6" ON CENTER, 4 HOLES PER ROW; MINIMUM OF 3" OF GRAVEL OVER PIPES; NOT NECESSARY UNDERNEATH PIPES. PERFORATED PIPE SHALL BE WRAPPED WITH 1/4" GALVANIZED HARDWARE CLOTH.
SI @ 28 CING TO	N/A	ON-SITE TESTING OF POURED-IN-PLACE CONCRETE REQUIRED: 28 DAY STRENGTH AND SLUMP TEST; ALL CONCRETE DESIGN (CAST-IN-PLACE OR PRE-CAST) <i>NOT USING PREVOUSLY APPROVED STATE OR LOCAL</i> <i>STANDARDS</i> REQUIRES DESIGN DRAWINGS SEALED AND APPROVED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF MARYLAND- DESIGN TO INCLUDE MEETING ACI CODE 350.R/89; VERTICAL LOADING [H-10 OR H-20]; ALLOWABLE HORIZONTAL LOADING (BASED ON SOIL PRESSURES); AND ANALYSIS OF POTENTIAL CRACKING.
3	0.02" TO 0.04"	SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE (AASHTO) #10 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATED OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NO "ROCK DUST" CAN BE USED FOR SAND.

LEGEND
EXISTING CONTOUR382
PROPOSED CONTOUR
EXISTING SPOT ELEVATION 3823
PROPOSED SPOT ELEVATION $+ 82^{53}$
DIRECTION OF FLOW
EXISTING TREELINE
PROPOSED TREELINE
LIGHT POLES $\dot{\nabla}$ post top $\dot{\Box}$ overhead $*$ bollard
STABILIZED CONSTRUCTION ENTRANCE
SILT FENCE SF SF
SUPER SILT FENCE SSF SSF
LIMIT OF DISTURBANCE
EROSION CONTROL MATTING • • • • ECM • • • •
SOIL BOUNDARY • • • • • • • • • • • • • • • • • • •
RIP-RAP INFLOW PROTECTION
EXISTING SPECIMEN TREE

11310113			
IO 1	BIO 2		
1'	1'		
34.60	535.00		
35.60	536.00		
4'	4'		
5'	n/a		
5'	n/a		
82'	105'		
86.4'	22'		
4"	4"		
31.50	531.93		
4"	4"		
31.33	530.30		
4"	4"		
31.50	530.30		
3"	3"		
31.33	531.50	ないたで	
).5%	0.5%		

DW#	VOLUME REQUIRED	VOLUME PROVIDED	SIZE WELLS
1	85 CF	98 CF	7.0' X 7.0' X 5' DEEP
2	85 CF	98 CF	7.0' X 7.0' X 5' DEEP

	SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.37
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FILTER FABRIC LINES TOP AND

E	SPACING	SIZE	REMARKS	QTY. BIO 1	QTY. BIO 2
	AS SHOWN (MIN. 15' O.C.)	7 GAL.		2	4
	AS SHOWN (MIN. 4' O.C.)	24"- 36" HT.	TWO MALE FOR EVERY TWENTY PLANTS	0	20
	2' O.C.*	1 GAL.		36	29
AN	2' O.C.*	1 GAL.		32	29

OWNER/DEVELOPER

EMAIL: EDIAMOND@WHBOYER.COM

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED MICRO-BIORETENTION FACILITIES (M-6)

1. THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MUTCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUME II, TABLE A.4.1 AND 2.

- THE OWNER SHALL PERFORM A PLANT INSPECTION IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION. THE OWNER SHALL REMOVE DEAD OR DISEASED VEGETATION CONSIDERED
- BEYOND TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL, TREAT DISEASED PLANTS, AND REPLACE ALL DEFICIENT STAKES AND WIRES.
- 3. THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED

4. THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

OPERATION AND MAINTENANCE SCHEDULE FOR

- PRIVATELY OWNED AND MAINTAINED DRY WELLS (M-5) 1. THE MONITORING WELLS AND STRUCTURES SHALL BE INSPECTED ON A QUARTERLY BASIS AND AFTER EVERY LARGE STORM
- 2. WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS SHALL BE RECORDED OVER A PERIOD OF SEVERAL DAYS
- TO INSURE TRENCH DRAINAGE. 3. A LOG BOOK SHALL BE MAINTAINED TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
- 4. WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN THE 72 HOURS TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN. 5. THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH
- OPERATION AND MAINTENANCE CRITERIA. 6. 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

