NORTON #	21-139	
Property Address	Treeman Property	
Site Area (SURVEY PROPERTY AREA:	91,627	SE
Site Area (SURVEY STUDY AREA:	91,627	
Total LOD Area:	57,400	
LOD in property:	57,400	SF
LOD outside property:	-	SF
Soil Type:	В	
Impervious Cover	SF	
Existing Asphalt drive to remain		SF
Existing house/walkways/sheds to remain	2,196	
Proposed:		
Gravel parking lot	35,223	
		SF
		SF
		SF
Total Proposed	35,223	SF
Total Impervious Proposed Project	35,223	SF
Total Impervious in Property	41,409	SF
Impervious % for Pe	45.2	=(41,409/91,627)
Impervious % for Rv	61.4	=(35,233/57,400)
RCN for Woods	55	
PE	1.8	in

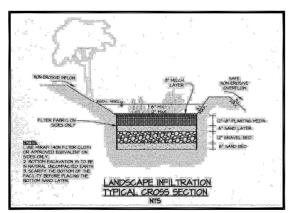
STORMWATER MANAGEMENT STATEMENT ESD IS PROVIDED BY 2 LANDSCAPE INFILTRATION FACILITIES. (SEE DRAINAGE AREA ANALYSIS SHEET L-1.1).

FACILITY DRAINAGE NOTE ALL WATER PER DRAINAGE AREA IS REQUIRED TO BE DIRECTED TOWARD RECEIVING STRUCTURE.

DRAINAGE AREA ANALYSIS														
														ESDv
	DRAINAGE	IMPERVIOUS		MAX VOLUME			STRUCTURE						STRUCTURE	TREATED
D.A. NUMBER	AREA (SF)	(SF)	IMPERVIOUS %	PE=2.6"	MIN VOLUME PE=1.0"	TREATMENT STRUCTURE	LABEL			STRUCTURE	DIMENSIONS		CAP. (CF)	(CF)
								LENGTH (FT)	WIDTH(FT)	AREA (SF)	DEPTH POND(FT)	DEPTH MEDIA (FT)		
1	19,984	17,284	86	3,550	1,365	LANDSCAPE INFLITRATION	A	60	17			1 4	2652	2,652
2	18,653	12,820	69	2,707	1,041	LANDSCAPE INFLITRATION	В	60	17			1 4	2652	2,652
													ESD TREATED	5,304
												PE REQUIRED = 1.8"	ESD REQUIRED	5,186

LANDSCA	APE INFILTRATION CALCULA	TIONS	
TREEMAN PROPERT	Υ		
Norton #21-139			
Facility - LANDSCA	PE INFILTRATION A, D.A.=1	9,984 SF	
ESDv (MAX) =	(2.6 * .82 * 19984)/12 =	3550	CF
			L
ESDv (MIN) =	(1.0 * .82 * 19984)/12=	1365	CF
	(4020\$4.0) . ( 4\$4020\$4.0)	2000	or.
Structure Capacity	(1020*1.0) + (.4*1020*4.0)	2652	UF.
			$\vdash$
Calculation of Ry fo	r Landscape Infiltration:		$\vdash$
			Н
Total Drainage Area	3	19984	SF
Overland impervio	us	17284	SF
Total Impervious		17284	SF
% Impervious = 17,	284/19,984*100=	86%	
Rv=0.05+(.009xI)=0	0.05+(.009x86)		_
Rv =.82			_
			⊢
			⊢
Facility - LANDSCA	PE INFILTRATION B, D.A.=18	3,653 SF	$\vdash$
ESDv (MAX) =	(2.5 \$ 57 \$ 40552) (42	2707	cr.
ESDV (IVIAX) =	(2.6 * .67 * 18653)/12 =	2/0/	CF
ESDv (MIN) =	(1.0 * .67 * 18653)/12=	1041	CE
LSDV (IVIIIV) -	(1.0 .07 10033)/12-	1041	
Structure Capacity	(1020*1.0) + (.4*1020*4.0)	2652	CF
	1		
Calculation of Rv fo	r Landscape Infiltration:		
Total Drainage Area	a .	18653	SF
			_
Overland impervio	us	12820	
Total Impervious		12820	SF
		***	H
% Impervious = 12,	820/18,653*100 =	69%	L
D 005-(000-1)	05./.000.50		$\vdash$
Rv=0.05+(.009xI) = 0	J.U5+(.U09x69)		$\vdash$
Rv =.67			

<del></del>	EXISTING PROPERTY BOUNDARY
<del></del>	EXISTING ADJ PROPERTY BOUND
— <i>—-33</i>	6 — EX. CONTOUR
LOD -	LIMITS OF DISTURBANCE
512	PROPOSED CONTOUR
	FACILITY DRAINAGE AREA
	PROPOSED LANDSCAPE INFILTRATION FACILITY
	OFFSITE DRAINAGE AREA
<del></del>	EXISTING PROPERTY BOUNDARY
	- EXISTING ADJ PROPERTY BOUNDARY
— <i>— 336</i> — –	EX. CONTOUR
440	PROPOSED CONTOUR
2' MNCPPC GIS TOPO 2' SURVEY TOPO	SURVEY BOUNDARY
~~~~	TREE CANOPY FOR AERIAL PHOTO
	PROPOSED LANDSCAPE INFILTRATION
—LOD —LOD —	LIMIT OF DISTURBANCE
* * * * * * * * * * * * * * * * * * *	PROPOSED LAWN
	BUILDING RESTRICTION LINE/ CONDITIONAL USE SETBACK
	PROPOSED GRAVEL PARKING (INCLUDES SOME OF THE EXISTING GRAVEL AREA)
	EXISTING ASPHALT



FOR LANDSCAPE INFILTRATION A: ESDv = PONDING DEPTH (1') STORAGE FILTER IN MEDIA (4.0') FOR LANDSCAPE INFILTRATION B: ESDV = PONDING DEPTH (1')

STORAGE FILTER IN MEDIA (4.0')

\*BOTTOM OF FACILITIES ARE TO BE IN NATURAL ORIGINAL GRADE PER PLAN.

Exhibit 11(b) OZAH Case No: CU 24-09

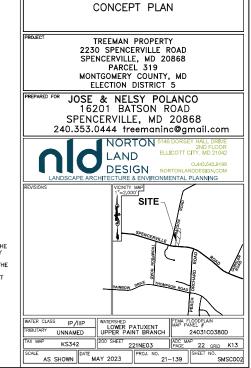




DRAINAGE AREA MAP STUDY

SCALE: 1" = 40'

## MISS UTILITY CALL "MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATION MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-866-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED, 48 HOURS AFTER CALLING MISS UTILITY. THE EXCAVATIOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONICOMERY COUNTY COUNT



STORMWATER MANAGEMENT

**LEGEND** 

WATERSHED BOUNDARY

— – – — EXISTING ADJ PROPERTY BOUNDARY