

Drainage Calculation Summary

Drainage Design Criteria

- 1. STORAGE VOLUME BASED ON STORAGE OF THE RUNOFF FROM AN 8-INCH RAINFALL.
- 2. RUNOFF COEFFICIENTS FOR: PAVEMENT, ROOF, CONCRETE, OTHER IMPERVIOUS AREAS = 1.00 LANDSCAPED, GRASSED, NATURAL, OTHER PERVIOUS AREAS = 0.30
- ALL PIPING INTO THE RECHARGE BASIN SHALL BE MINIMUM 24" DIAMETER 3. HDPE CPP WITH MAXIMUM 2% SLOPE.
- 4. DRAINAGE RESERVE AREAS SHALL INCLUDE NEW 12 FOOT DIAMETER PRECAST STORM DRAIN RINGS WITH A CAPACITY OF 100.88 CUBIC FEET PER VERTICAL FOOT.
- 5. PER THE GEOTECHNICAL REPORT PREPARED BY SOIL MECHANICS DRILLING CORP. DATED 03/17/2020, NO GROUNDWATER WAS ENCOUNTERED DURING THIS SITE INVESTIGATION.
- 6. ALL LOTS WILL BE REQUIRED TO STORE THE RUNOFF FROM AN 8-INCH RAINFALL OVER THE DISTURBED AREA OF THE LOT.



Drainage Reserve Area (9,441.53 SF Footprint) = 23,554.26 CF

TOTAL = 40,703.86 CF o.k.

Drainage A	rea	LOT 11			
		Contributing Area (SF)	Runoff C	Rainfall (Ft)	V
REQUIRED STO	RAGE VOLUME CALC	ULATION FOR AN 8-INCH	RAINFALL		
PERVIC	OUS AREA	240,411 SF x	0.3 x	8/12	=
				TOTAL	
PROVIDED STO	RAGE VOLUME DESIG	GN			
Drainage Area "	11N" : Use (16) 12 FT D	Diameter Drywells @ 17 FT Ef	fective Depth	@ 100.88 CF ,	/ VF
	12 x 17 FT EFF. DEPTH	I x 100.88 CF/VF = 20,579	9.52 CF		
	Drainage Reserve Area	a (9,151.50 SF Footprint) = 28	8,163.16 CF		

	TOTAL = 48,74	2.68 CF o.k.	
Drainage Area	LOT 12N		
	Contributing Area	Runoff	Rainfall

	(SF)	C	(Fl)
REQUIRED STORAGE VOLUME CALC	ULATION FOR AN 8-ING	CH RAINFALL	
PERVIOUS AREA	188,330 SF x	0.3 x	8/12
			TOTAL
PROVIDED STORAGE VOLUME DESIG	5N		

Drainage Area "12N" : Use (10) 12 FT Diameter Drywells @ 17 FT Effective Depth @ 100.88 CF / VF 9 x 17 FT EFF. DEPTH x 100.88 CF/VF = 17,149.60 CF

Drainage Reserve Area (8,841.58 SF Footprint) = 20,943.90 CF **TOTAL** = 38,093.50 CF o.k.

Drainage Area	LOT 24			
	Contributing Area (SF)	Runoff C	Rainfall (Ft)	Volume (CF)
REQUIRED STORAGE VOLUME	CALCULATION FOR AN 8-INCH	I RAINFALL		
PERVIOUS AREA	168,526 SF x	0.3 x	8/12	= 33,705
			TOTAL	33,705
PROVIDED STORAGE VOLUME	DESIGN			
Drainage Area "24" : Use (9) 12 F1	Diameter Drywells @ 17 FT Effe	ective Depth @	100.88 CF / V	′F
9 x 17 FT EFF. D	EPTH x 100.88 CF/VF = 15.43	4.64 CF		

Drainage Reserve Area (7,586.46 SF Footprint) = 18,306 CF **TOTAL** = 33,740.64 CF o.k. Volume (CF)

= 37,666 37,666

Drainage Area	А			
	Contributing Area (SF)	Runoff C	Rainfall (Ft)	Volume (CF)
REQUIRED STORAGE VOLUME CA	ALCULATION FOR AN 8-INCH	H RAINFALL		
PAVED AREA	112,664 SF x	1.0 x	8/12	= 75,109
RECHARGE BASIN	124,360 SF x	1.0 x	8/12	= 82,907
PERVIOUS AREA (R.O.W.)	191,786 SF x	0.3 x	8/12	= 38,357
PERVIOUS AREA (LOTS)	4,561,300 SF x	0.3 x	8/12	= 912,260
			TOTAL	1,108,633

PROVIDED STORAGE VOLUME DESIGN Drainage Area "A" : Use Recharge Basin

- Top of Water = El. 205.00

- Footprint at Bottom = 88,240 SF - Footprint Top of Berm = 142,545 SF - Wall Slope = 1:2

- Depth of Storage = 12 FT Lower Pad / 10 FT Upper Pad

Depth of Freeboard = 2 FT
Total Depth of Basin (Storage + Freeboard) = 14 FT

STORAGE IN RECHARGE BASIN = 1,154,748.96 CF o.k.

NCDPW APPROVAL



Engineering, Surveying, Landscape Architecture and Geology, PC 100 Motor Parkway Suite 350 Hauppauge, NY 11788 631.787.3400

THE PORTION OF THE PLOTS SHOWN AS "DRAINAGE RESERVE EASEMENT AREAS" (DRA'S) ARE TO BE DEVELOPED WITH DIFFUSION WELLS AS PER THE APPROVED DRAINAGE PLANS FOR THE SUBDIVISION. THESE DRA'S AND DIFFUSION WELLS ARE TO BE MAINTAINED BY THE INDIVIDUAL LOT OWNERS. THERE SHALL BE FILED WITH THE NASSAU COUNTY CLERK A DECLARATION OF COVENANTS AND RESTRICTIONS WHICH SHALL RUN WITH THE LAND, REQUIRING SUCH THAT THE DRAINAGE RESERVE AREA AND DIFFUSION WELL MAINTENANCE BE PERFORMED BY THE INDIVIDUAL LOT OWNER AS REQUIRED. IN THE EVENT THAT THE "DRA'S" ARE NOT MAINTAINED, THE VILLAGE OF BROOKVILLE SHALL HAVE THE RIGHT TO ENTER UPON THE PREMISES FOR REPAIR, MAINTENANCE AND RECONSTRUCTION PURPOSES AND TO ACCESS THE COST OF THE ASSOCIATED WORK BACK TO THE INDIVIDUAL LOT OWNER.

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No.	Revision	Date	Appvd.
1	YIELD MAP REVISIONS	05/29/2020	KW
2	DRAINAGE REVISIONS	08/30/2020	KW
3	LAYOUT REVISIONS	01/14/2021	KW
4	LAYOUT REVISIONS	04/09/2021	KW
5	UPDATED PRELIMINARY SUBDIVISION SET	08/06/2021	KW

hecked by TC

Preliminary Subdivision Mar. 20, 2020

Not Approved for Construction



IT IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER ANY DOCUMENT THAT BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THE PERSON IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER ENGINEER

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- 1. TOTAL PROPERTY SIZE IS APPROXIMATELY 6,482,509 SF (148.8179 ACRES).
- 2. TOPOGRAPHY: ELEVATIONS ARE BASED UPON NAVD 88 DATUM.
- 4. ALL BUILDINGS, ROADS, CART PATHS AND OTHER EXISTING SITE

- 1. THE CONTRACTOR SHALL MEET ALL LINES AND GRADES DEPICTED ON THIS PLAN

- 5. GRADES IN LANDSCAPED AREAS SHALL NOT EXCEED A SLOPE OF 3H:1V UNLESS
- 6. IN AREAS OF FILL OR BACKFILL, THE CONTRACTOR SHALL PLACE SUITABLE FILL DEEMED SUITABLE BY THE ENGINEER.
- 7. CONTRACTOR RESPONSIBLE TO PROVIDE POSITIVE DRAINAGE FLOW OVER THE SITE. BIRD BATHS AND PONDING AREAS (OTHER THAN AS DESIGNED) ARE NOT PERMITTED.
- 8. THE CONTRACTOR SHALL UTILIZE ALL NON-IMPACTED ORGANIC MATERIAL AS TOPSOIL IN LANDSCAPE AREAS PROVIDED THE MATERIAL IS APPROVED BY THE ENGINEER.
- 9. THERE SHALL BE NO LOAM OR ORGANIC MATERIAL USED UNDER ROADWAYS OR FOUNDATIONS. ONLY CLEAN SAND AND STRUCTURAL FILL TO BE USED AS APPROVED BY THE ENGINEER.
- 10. DRAINAGE RESERVE AREAS SHALL BE SUBJECT TO A DEED COVENANT REQUIRING THE HOMEOWNER TO MAINTAIN ANY DRA ON THE PROPERTY (TYP.) (SEE NOTE).
- 11. THE PORTION OF THE PLOTS SHOWN AS "DRAINAGE RESERVE EASEMENT AREAS" (DRA'S) ARE TO BE DEVELOPED WITH DIFFUSION WELLS AS PER THE APPROVED DRAINAGE PLANS FOR THE SUBDIVISION. THESE DRA'S AND DIFFUSION WELLS ARE TO BE MAINTAINED BY THE INDIVIDUAL LOT OWNERS. THERE SHALL BE FILED WITH THE NASSAU COUNTY CLERK A DECLARATION OF COVENANTS AND RESTRICTIONS WHICH SHALL RUN WITH THE LAND, REQUIRING SUCH THAT THE DRAINAGE RESERVE AREA AND DIFFUSION WELL MAINTENANCE BE PERFORMED BY THE INDIVIDUAL LOT OWNER AS REQUIRED. IN THE EVENT THAT THE "DRA'S" ARE NOT MAINTAINED, THE VILLAGE OF BROOKVILLE SHALL HAVE THE RIGHT TO ENTER UPON THE PREMISES FOR REPAIR, MAINTENANCE AND RECONSTRUCTION PURPOSES AND TO ACCESS THE COST OF THE ASSOCIATED WORK BACK TO THE INDIVIDUAL LOT OWNER.

- THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS-BUILT PLANS AND UTILITY MARK-OUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES.

		Leg	jend	
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		PROJECT LIMIT LINE	26.85 BC $ imes$	26.85 BC×
		RIGHT-OF-WAY/PROPERTY LINE	132.75 ×	132.75 ×
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CABLE TV FIELD INLET DRAINAGE MANHOLE WITH INLET CATCH BASIN GUTTER INLET DRAINAGE MANHOLE TRENCH DRAIN PLUG OR CAP CLEANOUT FLARED END SECTION HEADWALL

Key Map

1" = 500'

DRYWELL WITH INLET

DRYWELL



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village of Brookville. New	York 115	45
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No. Revision	Date Appvd.
1 YIELD MAP REVISIONS	05/29/2020 KW
2 DRAINAGE REVISIONS	08/30/2020 KW
3 LAYOUT REVISIONS	01/14/2021 KW
4 LAYOUT REVISIONS	04/09/2021 KW
5 UPDATED PRELIMINARY SUBDIVISION	SEI 08/06/2021 KW
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<u> </u>
PORTION OF THE PLOTS SHOWN AS "DRAINAGE RESERVE IENT AREAS" (DRA'S) ARE TO BE DEVELOPED WITH DIFFUSION AS PER THE APPROVED DRAINAGE PLANS FOR THE VISION. THESE DRA'S AND DIFFUSION WELLS ARE TO BE TAINED BY THE INDIVIDUAL LOT OWNERS. THERE SHALL BE FILED THE NASSAU COUNTY CLERK A DECLARATION OF COVENANTS RESTRICTIONS WHICH SHALL RUN WITH THE LAND, REQUIRING THAT THE DRAINAGE RESERVE AREA AND DIFFUSION WELL TENANCE BE PERFORMED BY THE INDIVIDUAL LOT OWNER AS RED. IN THE EVENT THAT THE "DRA'S" ARE NOT MAINTAINED, ILLAGE OF BROOKVILLE SHALL HAVE THE RIGHT TO ENTER UPON REMISES FOR REPAIR, MAINTENANCE AND RECONSTRUCTION DSES AND TO ACCESS THE COST OF THE ASSOCIATED WORK FO THE INDIVIDUAL LOT OWNER.

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T IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER ANY DOCUMENT THAT 3EARS THE SEAL OF A PROFESSIONAL ENGINEER, JNLESS THE PERSON IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL INGINEER	Project Number 26747.01	-	

Cul de Sac (North) SCALE: 1" = 20'

NOTE:

PLANTING WITHIN THE PROPOSED CUL-DE-SAC(S) SHALL CONSIST OF ONE (1) DECIDUOUS SPECIMEN TREE CENTRALLY LOCATED WITHIN THE PROPOSED CUL-DE-SAC ISLAND. SAID SPECIMEN TREE SHALL EXHIBIT AN UPWARD BRANCHING PATTERN ALLOWING FOR A CLEAR LINE-OF-SIGHT FOR THE VEHICULAR AND PEDESTRIAN TRAFFIC WITHIN THE AREA; BRANCHING SHALL BE MAINTAINED AT A 6' MINIMUM HEIGHT ABOVE FINISHED GRADE. DECIDUOUS SPECIMEN TREE SHALL BE INSTALLED AT A MINIMUM CALIPER SIZE OF 3 1/2" AS DEFINED BY THE LATEST VERSION OF THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1) AND SHALL EXHIBIT A MAXIMUM MATURE CANOPY WIDTH OF 15 TO 20 FEET IN DIAMETER. IN ADDITION TO THE DECIDUOUS SPECIMEN TREE, A COMBINATION OF DECIDUOUS AND EVERGREEN SHRUB TYPE MATERIAL SHALL BE CENTRALLY INSTALLED WITHIN THE CUL-DE-SAC ISLAND AND AROUND THE SPECIMEN TREE. THESE SHRUB SPECIES SHALL EXHIBIT A MAXIMUM MATURE HEIGHT OF 3' AND SHALL BE INSTALLED AT A 3 GALLON MINIMUM SIZE. REMAINING AREAS AROUND THE SHRUB PLANTINGS SHALL BE PLANTED WITH FLOWERING, HERBACEOUS PERENNIALS AND ORNAMENTAL GRASSES ALL WHICH WILL EXHIBIT A MAXIMUM MATURE HEIGHT OF 2' AND SHALL BE INSTALLED AT A MINIMUM, 2" PLUG SIZE. A MINIMUM 10' WIDE TURF STRIP SHALL BE INSTALLED AROUND THE PERIMETER OF THE PROPOSED CUL-DE-SAC ISLAND.

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ENGINEER

Typical Lot Erosion & Sediment Control Layout

- 1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE. 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
- 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.
- 4. SEE SILT FENCE DETAIL ON THIS SHEET

- 4. WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE UPPER BLANKET END
- OVER LOWER END WITH 6 INCH (MIN.) OVERLAP AND STAPLE BOTH TOGETHER. 5. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
- 6. EROSION CONTROL BLANKETS SHALL BE USED IN ALL AREAS WHERE SLOPES EXCEED 3:1.

Erosion Control Blanket Slope Installation 1/16 N.T.S. Source: VHB LD_680

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Erosion Control Notes

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED IN A MULTI-PHASE APPROACH - PHASE 1 BEING THE CONSTRUCTION OF THE PUBLIC IMPROVEMENTS (ROADS, RECHARGE BASIN, DRAINAGE RESERVE AREAS), PHASE 2 BEING THE INDIVIDUAL LOTS. PHASE 1 MEASURES SHALL REMAIN IN PLACE UNTIL ALL PUBLIC IMPROVEMENTS HAVE MET FINAL STABILIZATION REQUIREMENTS; PHASE 2 MEASURES SHALL BE IMPLEMENTED AT EACH LOT AS DEVELOPMENT SCHEDULE DICTATES.

PRIOR TO STARTING WORK ON THE SITE, INCLUDING DEMOLITION, CONTRACTOR SHALL NOTIFY THE APPROPRIATE AGENCIES AND INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS REQUIRED BY STATE & LOCAL AGENCIES. ACTUAL EROSION CONTROL MEASURES WILL BE DICTATED BY FIELD CONDITIONS AS CONSTRUCTION PROGRESSES. EROSION CONTROL MEASURES TO BE ADJUSTED AS CONSTRUCTION PROGRESSES AS NECESSARY TO ENSURE THAT SEDIMENT IS TRAPPED ON-SITE.

3. SPECIFIC METHODS AND MATERIALS EMPLOYED IN THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES SHALL CONFORM TO "THE NEW YORK GUIDELINES FOR EROSION AND SEDIMENT CONTROL".

4. SEDIMENT BARRIERS (SILT FENCE OR APPROVED EQUAL) SHALL BE INSTALLED AS REQUIRED ALONG THE LIMITS OF DISTURBANCE FOR THE DURATION OF THE WORK. NO SEDIMENT FROM THE SITE SHALL BE PERMITTED TO WASH ONTO ADJACENT PROPERTIES, WETLANDS OR ROADS.

5. DRAINAGE INLETS INSTALLED AS PART OF THE PROJECT SHALL BE PROTECTED FROM SEDIMENT BUILDUP THROUGH THE USE OF SEDIMENT BARRIERS, SEDIMENT TRAPS, DANDY BAGS, ETC., AS

REQUIRED.

DICTATE.

INSTALLATION:

MAINTENANCE:

6. PROPER MAINTENANCE OF EROSION CONTROL MEASURES IS TO BE PERFORMED AS INDICATED BY PERIODIC INSPECTION AND AFTER HEAVY OR PROLONGED STORMS. MAINTENANCE MEASURES INCLUDE, BUT ARE NOT LIMITED TO, CLEANING OF SEDIMENT BASINS AND TRAPS, CLEANING OR REPAIR OF SEDIMENT BARRIERS, CLEANING AND REPAIR OF BERMS AND DIVERSIONS, AND CLEANING AND REPAIR OF INLET PROTECTION.

7. APPROPRIATE MEANS SHALL BE USED TO CONTROL DUST DURING CONSTRUCTION.

8. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE MAINTAINED TO PREVENT SOIL AND LOOSE DEBRIS FORM BEING TRACKED ONTO LOCAL ROADS. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL THE SITE IS PERMANENTLY STABILIZED.

9. SEDIMENT BARRIERS AND OTHER CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED, AFTER PERMANENT STABILIZATION, PAVED AREAS SHALL BE CLEANED AND DRAINAGE SYSTEMS CLEANED AND FLUSHED AS NECESSARY. 10. LOCATION AND EXTENT OF EROSION & SEDIMENT CONTROL MEASURES TO BE ADJUSTED AS NECESSARY DURING THE COURSE OF CONSTRUCTION AS CONSTRUCTION PROGRESS AND FIELD CONDITIONS

11. CONCRETE WASHOUT SHALL BE LOCATED A MINIMUM OF 50 FT FROM ANY DRAINAGE INLET OR CONCENTRATED FLOW. ONCE CONCRETE WASTE HAS BEEN WASHED IN THE WASHOUT AREA AND ALLOWED TO HARDEN, THE CONCRETE SHALL BE BROKEN UP AND REMOVED FROM THE SITE. CONTRACTOR SHALL REMOVE WASHED OUT CONCRETE ON A REGULAR BASIS. PLASTIC LINING SHALL BE A MINIMUM OF 10 MIL, POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES AND TEARS AND ALL OTHER DEFECTS THAT MAY COMPROMISE THE INTEGRITY OF THE LINER. CONCRETE WASHOUT FACILITIES SHALL BE CLEANED OUT ONCE 75% CAPACITY IS REACHED. STRAW BALES MAY BE SUBSTITUTED WITH ALTERNATE SECURING MEASURES SUCH AS CONCRETE BLOCKS.

Dandy Bag Notes

EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END.

IF USING OPTIONAL OIL ABSORBENTS, PLACE ABSORBENT PILLOW IN POUCH ON BOTTOM OF THE UNIT. ATTACH ABSORBENT TO TETHER LOOP. HOLDING THE LIFTING DEVICE (DO NOT RELY ON LIFTING DEVICE TO SUPPORT ENTIRE WEIGHT OF GRATE) PLACE THE GRATE INTO IT'S FRAME.

REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM THE SURFACE AND VICINITY OF THE UNIT AFTER EACH STORM EVENT.

REMOVE THE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED.

IF USING OPTIONAL OIL ABSORBENTS, REMOVE AND REPLACE ABSORBENT PILLOW NEAR SATURATION

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