

- 3. THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY THE SURVEYOR. ALL INFORMATION REGARDING FASEMENTS AND OTHER DOCUMENTS THAT MAY AFFECT THE QUALITY OF TITLE FOR THE SUBJECT PROPERTY WAS OBTAINED FROM FILE NUMBER: OR2370743 PREPARED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, HAVING AN EFFECTIVE DATE OF APRIL 28, 2023. (SURVEY COMMENTS IN BOLD)
- ANY DISCREPANCIES, CONFLICTS OR SHORTAGES IN AREA OR BOUNDARY LINES, ANY ENCROACHMENTS OR
- ANY OVERLAPPING OF IMPROVEMENTS WHICH A CORRECT SURVEY WOULD SHOW. PROOF OF PAYMENT OF ANY BILLINGS FOR SERVICES PROVIDED BY MUNICIPALITY.

WITHIN ONE YEAR OF DATE OF DOCUMENT.

- PROOF THERE ARE NO ARREARAGE FOR CHILD SUPPORT DUE IN THI4, OR ANY OTHER, JURISDICTION
- EASEMENT GRANTED TO LOWER MAKEFIELD TOWNSHIP BOARD OF SUPERVISORS AS SET FORTH IN DEED BOOK 2410, PAGE 358. (RIGHTS GRANTED TO LOWER MAKEFIELD TOWNSHIP BOARD OF SUPERVISORS IN 1980 TO A 10 FEET WIDE BIKE PATH EASEMENT SUBJECT TO THE FOLLOWING:

"1. THE SAID EASEMENT SHALL BE USED SOLELY AS A BIKE PATH. 2. GRANTEE, ITS SUCCESSORS AND ASSIGNS, SHALL COMPLETE THE CONSTRUCTION OF SAID BIKE PATH

. GRANTEE, ITS SUCCESSORS AND ASSIGNS, SHALL PAY ANY AND ALL TAXES AND ASSESSMENTS WHICH

MAY BE IMPOSED UPON THE EASEMENT AREA AND ITS USE.

4. GRANTEE, ITS SUCCESSORS AND ASSIGNS, ASSUMES THE OBLIGATION TO REMOVE SAID BIKE PATH WHEN NO LONGER USED OR MAINTAINED BY THE GRANTEE...FOR A PERIOD OF ONE YEAR...AND SHALL AGAIN

5. GRANTORS, ITS SUCCESSORS AND ASSIGNS, SHALL RETAIN THE RIGHT OF INGRESS, EGRESS AND REGRESS OVER SAID EASEMENT AREA AND THIS RIGHT IS DOMINANT AND SUPERIOR TO THE EASEMENT USE. 6. GRANTEE, ITS SUCCESSORS AND ASSIGNS, SHALL...INDEMNIFY...GRANTORS...FROM...ALL COSTS AND

- GRANT OF EASEMENT GRANTED TO LOWER MAKEFIELD TOWNSHIP AS SET FORTH IN DEED BOOK 2482, PAGE 428. (RIGHTS GRANTED TO LOWER MAKEFIELD TOWNSHIP TO A 30 FEET WIDE SANITARY SEWER EASEMENT -
- 4. THIS SURVEY DOES NOT CERTIFY AS TO THE PRESENCE OR ABSENCE OF UNDERGROUND IMPROVEMENTS OR
- 5. THE EXTENT OF THE WATERS SHOWN HERE AND THE ABSENCE OF WETLANDS WERE DETERMINED BY VW
- 6. THE PARCEL SHOWN HEREON IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (SFHA) PER FLOOD INSURANCE RATE MAPS (FIRM) PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), BEING PANEL 451 OF 532, MAP NUMBER 42017C0451J EFFECTIVE MARCH 16, 2015.
- 7. NO CERTIFICATION IS MADE BY VAN CLEEF ENGINEERING ASSOCIATES AS TO THE POSITION OF ANY UTILITIES OR TO THE
- COMPLETENESS OF ANY UTILITIES SHOWN. ALL CONTRACTORS WORKING ON THIS SITE SHALL COMPLY WITH THE REQUIREMENTS OF ACT 287 OF 1974 AS AMENDED BY ACT 50 OF 2017 (UNDERGROUND UTILITY LINE PROTECTION LAW). VCEA HAS REGISTERED THIS SITE WITH THE PA ONE-CALL SYSTEM ON MARCH 2, 2023 (SERIAL NO. 20230610854).
- 8. SOILS TAKEN FROM NRCS WEBSITE.
- 9. IT IS ANTICIPATED THAT THESE LOTS WILL BE SERVED BY PUBLIC WATER & SEWER.

EXPENSES...GROWING OUT OF THE...USE...OF SAID BIKE PATH..." - SHOWN)

- 10. AREA OF ULTIMATE ROAD RIGHTS-OF-WAY FOR EDGEWOOD ROAD AND SANDY RUN ROAD ARE OFFERED FOR DEDICATION TO LOWER MAKEFIELD TOWNSHIP.
- 11. IT IS ANTICIPATED A FEE IN LIEU OF RECREATION LAND WILL BE OFFERED TO LOWER MAKEFIELD TOWNSHIP
- 12. ALL SITE IMPROVEMENTS ARE DEFERRED TO THE INDIVIDUAL LOT BUILDING PERMIT/APPLICATION STAGE.
- 13. THE SPECIAL SETBACKS FROM RESOURCE-PROTECTED LANDS PER ZONING SECTION 200-61(C) ARE PROVIDED SCHEMATICALLY ON THE CONCEPTUAL GRADING PLAN/SITE IMPROVEMENT PLAN MEASURED FROM THE LIMIT OF THE RESOURCE PROTECTED WOODLANDS PROPOSED TREELINE.
- 14. THE PROPOSED SETBACKS PROVIDED ON THE RECORD PLAN ARE SHOWN PER THE R-2 ZONING DISTRICT REQUIREMENTS PRIOR TO ANY SPECIAL SETBACKS ASSOCIATED WITH RESOURCE-PROTECTED LANDS.

# **REFERENCE PLANS:**

- PLAN ENTITLED "MINOR SUBDIVISION PLAN MADE FOR SEBASTIAN PINELLI ESTATE" BY ALL COUNTY, INC. DATED AUGUST 10, 1995, LAST
- PLAN ENTITLED "FINAL LAND DEVELOPMENT PLAN OF YARDLEY-MAKEFIELD RESCUE SQUAD" PREPARED BY TRI-STATE ENGINEERS AND LAND SURVEYORS, INC., DATED MAY 19, 1997, LAST REVISED DECEMBER 23, 1998 AS RECORDED IN PLAN BOOK 295 PAGE 11.
- PLAN ENTITLED "LAYOUT AND PAVING PLAN CANTERBURY ESTATES", SHEET 1 OF 10, BY WILLIAM G. MAJOR ASSOCIATES, DATED MAY 21, 1975, LAST REVISED APRIL 21, 1977, AS RECORDED IN PLAN BOOK 155 PAGE 20.
- 4. PLAN ENTITLED "PA. P.U.C. APPLICATION PLAN RAILROAD CROSSING IMPROVEMENTS EDGEWOOD ROAD" PREPARED BY PICKERING, CORTS & SUMMERSON, INC., DATED MAY 4, 1992, AS RECORDED IN PLAN BOOK 270 PAGE 15.

# **WAIVERS REQUESTED:**

ENVIRONMENTAL IMPACT.

1. 178-95.D.1; MAXIMUM PROPOSED GRADING OF 4:1 REQUIRED (3:1 PROVIDED TO MINIMIZE THE ENVIRONMENTAL IMPACT). 178-44.I(A) REQUIRES DRIVEWAYS TO BE INSTALLED AT 8% MAXIMUM GRADE. NOTE: 10% PROVIDED (WITH USE OF 4% SAFE STOPPING AREA AT STREET AND APPROPRIATE DRIVEWAY SLOPE IN ADVANCE OF GARAGE) TO MINIMIZE THE

- TRANSMISSION RIGHTS-OF-WAY: (b) LAND WITHOUT DEVELOPMENT OPPORTUNITIES DUE TO RESTRICTIONS SUCH AS RESTRICTIVE COVENANTS AND CONSERVATION EASEMENTS:
- -0.000 AC. (3) EQUALS BASE SITE AREA:
- B. STEP II: DETERMINE NATURAL RESOURCES LAND TO BE PROTECTED AND PERCENT OF BASE
- (1) DETERMINE LAND SUBJECT TO NATURAL RESOURCES. EACH SITE HAS UNIQUE NATURAL FEATURES. ALL APPLICATIONS SHALL INCLUDE MAPS SHOWING THE LOCATIONS OF THE RESOURCES TOGETHER WITH THE CALCULATIONS ON THE FOLLOWING CHART. IN THE EVENT THAT TWO OR MORE RESOURCES OVERLAP, ONLY THE RESOURCE WITH THE HIGHEST PROTECTION RATIO SHALL BE USED:

RESOURCE	PROTECTION RATIO	ACRES OF LAND IN RESOURCE	RESOURCE PROTECTION LAN
FLOODPLAIN FLOODPLAIN SOILS (ABUTTING DEL. RIVER) LAKES OR PONDS WETLANDS LAKES AND POND SHORELINE WETLANDS AND WATERCOURSE BUFFERS* STEEP SLOPES 8-15% STEEP SLOPES 15-25% STEEP SLOPES 25% PLUS WOODLAND ASSOCIATIONS R-2	100% 50% 100% 100% 100% 100% 50% 70% 100% 75%	0.000 0.000 0.000 0.000 0.000 0.639 0.000 0.000 0.008 2.749	0.000 0.000 0.000 0.000 0.000 0.639 0.000 0.000 0.008 2.062
TOTALS		3.396	2.709

(2) DETERMINE PERCENTAGE OF BASE SITE AREA CLASSIFIED AS RESOURCE-PROTECTED LAND: TOTAL RESOURCE-PROTECTED LAND DIVIDED BY BASE SITE AREA = % OF BASE SITE AREA CLASSIFIED AS RESOURCE-PROTECTED LAND.

### 2.709 AC. / 3.470 AC. = 78%C. STEP III: DETERMINE SITE CAPACITY.

- (1) FOR ALL RESIDENTIAL SUBDIVISIONS AND LAND DEVELOPMENTS THE FOLLOWING CALCULATIONS SHALL APPLY:
  - (a) SINGLE-FAMILY DETACHED DEVELOPMENTS AND TWO FAMILY DEVELOPMENTS:
  - [1] FIND NET BUILDABLE SITE AREA FOR SINGLE-FAMILY DETACHED AND TWO-FAMILY DEVELOPMENTS.

BASE SITE AREA MINUS TOTAL RESOURCE PROTECTION LAND (DETERMINED IN STEP II) = NET BUILDABLE SITE AREA

2.709 AC. TOTAL RESOURCE NET BUILDABLE BASE SITE AREA PROTECTED LAND

[2] FIND MAXIMUM NUMBER OF PERMITTED DWELLING UNITS FOR ALL SINGLE-FAMILY

DETACHED AND TWO-FAMILY DEVELOPMENTS. [a] WITH RECREATION LAND:

> NET BUILDABLE SITE AREA -[(1/DENSITY)+.05] = TOTAL NUMBER OFDWELLINGS PERMITTED

0.761 AC. - [(1/2.70) + .05] = 0.341

NOTES: MAXIMUM DENSITY PERMITTED ON THE NET BUILDABLE SITE AREA IS DETERMINED FOR EACH DISTRICT IN THE TABLES OF PERFORMANCE STANDARDS. FOR ALL SINGLE-FAMIY DETACHED DEVELOPMENTS, THE MAXIMUM DENSITY ON THE NET BUILDABLE SITE AREA IS DICTATED BY THE PERCENT OF THE TOTAL BASE SITE AREA WHICH IS IN RESOURCE PROTECTION LAND, AS DETERMNED BY STEP II. RECREATION FACTOR DERIVED FROM CHAPTER 178, SALDO.

0.761 AC. X 2.70

NET BUILDABLE MAXIMUM DENSITY ON UNITS PERMITTED SITE AREA NET BUILDABLE SITE AREA

(b) SINGLE-FAMILY ATTACHED AND MULTIFAMILY DEVELOPMENTS. (N/A)

[b] WITH FEE IN LIEU OF RECREATION LAND:

- (2) NONRESIDENTIAL USES IN DISTRICTS C-1, C-2, C-3 AND O-R: (N/A)(3) FOR A MIXED-USE DEVELOPMENT IN THE MU DISTRICT, THE FOLLOWING
- CALCULATIONS SHALL APPLY: (N/A)\*WATERCOURSE INCLUDED

BUCKS, COMMONWEALTH OF PENNSYLVANIA, CERTAIN LOTS, STREETS AND/OR IMPROVEMENTS, ACCORDING TO THIS PLAN, WHICH IS INTENDED TO BE RECORDED. WITNESS MY HAND AND SEAL THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2023.

CAROLINE E. TIMKO THERESA C. TIMKO

IN WITNESS WHEREOF, I HEREUNTO SET MY HAND AND OFFICIAL SEAL

ON THIS, THE \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_, BEFORE ME, A NOTARY PUBLIC, PERSONALLY APPEARED THEIR, WHO ACKNOWLEDGED THEMSELVES TO BE THE OWNER., AND THEY, AS SUCH THEIR, BEING AUTHORIZED TO DO SO, HAS EXECUTED THE FOREGOING PLAN BY SIGNING HIS NAME AS OWNER.

NOTARY PUBLIC SIGNATURE

OWNER OF RECORD AND APPLICANT: CAROLINE E. TIMKO AND THERESA CLEARY (THERESA C. TIMKO)

MAILING ADDRESSES: C/O THERESA CLEARY (THERESA C. TIMKO)
19 SAXONNEY CIRCLE C/O CAROL TIMKO NOYES 11661 SANDAL WOOD LANE FLEMINGTON, NJ 08822 MANASSAS, VA 20112-3000

SITE ADDRESS: EDGEWOOD ROAD MORRISVILLE, PA 19067 TPN: 20-034-020-004

(DEED) DEED BOOK 2822 PAGE 0263

# SITE AREA:

**INDEX OF SHEETS:** 

181,855 SQ. FT. OR 4.175 ACRES (GROSS) 168,316 SQ. FT. OR 3.614 ACRES (NET TO R.O.W.) REVIEWED BY THE TOWNSHIP ENGINEER AND RECOMMENDED FOR APPROVAL ON THE

BUCKS COUNTY PLANNING COMMISSION

PROCESSED AND REVIEWED. REPORT PREPARED BY THE BUCKS COUNTY PLANNING COMMISSION IN ACCORDANCE WITH THE MUNICIPALITIES PLANNING CODE.

EXECUTIVE DIRECTOR, BUCKS COUNTY PLANNING COMMISSION

RECORDER OF DEEDS RECORDED IN THE OFFICE FOR THE RECORDING OF DEEDS, ETC, IN AND FOR THE COUNTY OF BUCKS AT DOYLESTOWN, PENNSYLVANIA IN PLAN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_ ON \_\_\_\_\_ 20\_\_\_\_.

PROFESSIONAL ENGINEER CERTIFICATION

I, SAMUEL D. COSTANZO, PA PE No. 041557—R DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE INFORMATION CONTAINED IN THE ACCOMPANYING PLANS, SPECIFICATIONS, AND REPORTS HAVE BEEN PREPARED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE, IS TRUE AND CORRECT, AND IS IN CONFORMANCE WITH THE ZONING ORDINANCE AND THE SUBDIVISION AND LAND DEVELOPMENT ORDINANCE OF LOWER MAKEFIELD TOWNSHIP

I, SAMUEL D. COSTANZO, STATE THAT TO THE BEST OF MY KNOWLEDGE, THE PLANS ARE IN CONFORMITY WITH ENGINEERING, ZONING, BUILDING, SANITATION,

SAMUEL D. COSTANZO

**WETLANDS CERTIFICATION:** 

I, MAX RUSSICK, CPSS., OF VW CONSULTANTS, LLC HEREBY CERTIFY THAT I HAVE PERFORMED A WATERS EVALUATION OF THIS SITE IN ACCORDANCE WITH CURRENT STATE AND FEDERAL GUIDELINES AND HAVE DETERMINED THAT THE ON-SITE WATERS BOUNDARY AS SHOWN HEREON ACCURATELY REPRESENTS MY FINDINGS.

MAX RUSSICK

RECORD PLAN (SHEET 1 OF 1 TO BE RECORDED) EXISTING FEATURES/DEMOLITION PLAN & CONCEPT GRADING/SITE IMPROVEMENT PLAN

\_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_\_\_.

CERTIFIED THIS DATE \_\_\_\_\_

RECORDER OF DEEDS

SURVEYOR'S CERTIFICATION THIS PLAN REPRESENTS A SURVEY, MADE BY ROBERT W. COOK, PA PLS No. SU075256, THAT THE MONUMENTS SHOWN HEREON EXIST AS LOCATED AND THAT THE DIMENSIONAL AND GEODETIC DETAILS ARE CORRECT.

ROBERT W. COOK

AS LAST AMENDED.

SAMUEL D. COSTANZO

AND OTHER APPLICABLE TOWNSHIP ORDINANCES.

NOT FOR LAND DEVELOPMENT OR FOR CONSTRUCTION

PER TOWNSHIP REVIEW

EV DESCRIPTION **SERIAL NO. 20230610854** 

Before You Dig Anywhere now what's below. STOPI CALL 1-800-242-1776 Call before you dig. PA Law requires 3 working days notice

PA ONE CALL SYSTEM. INC.

AUTH DATE

**GRAPHIC SCALE** 20 1 INCH = 40 FT

PLAN NOTATION NLY THOSE PLANS WHICH CONTAIN A DIGITAL PRESSED, OR COLORIZED INK SEAL OF THE RESPONSIBLE PROFESSIONAL SHALL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIFICALLY PREPARE OR THE APPLICANT DESIGNATED HEREON, ANY ODIFICATION, REVISION, DUPLICATION OR USE ITHOUT THE WRITTEN CONSENT OF VAN CLEEF NGINEERING ASSOCIATES IS PROHIBITED. ELIANCE ON THIS PLAN FOR ANY PURPOSE THER THAN THAT WHICH IS INTENDED SHALL T THE SOLE DISCRETION AND LIABILITY OF TH

ROBERT W. COOK, PA P.L.S.

ENNSYLVANIA PROFESSIONAL URVEYOR NUMBER SU075256

AMUEL D. COSTANZO, PA PE NEER NUMBER 041557-R



VAN CLEEF ENGINEERING ASSOCIATES, LLC 501 NORTH MAIN STREET, DOYLESTOWN, PA 18901 WEB: WWW.VANCLEEFENGINEERING.COM PHONE (215) 345-1876

RECORD PLAN (SHEET 1 OF 1 TO BE RECORDED)

THERESA CLEARY AND

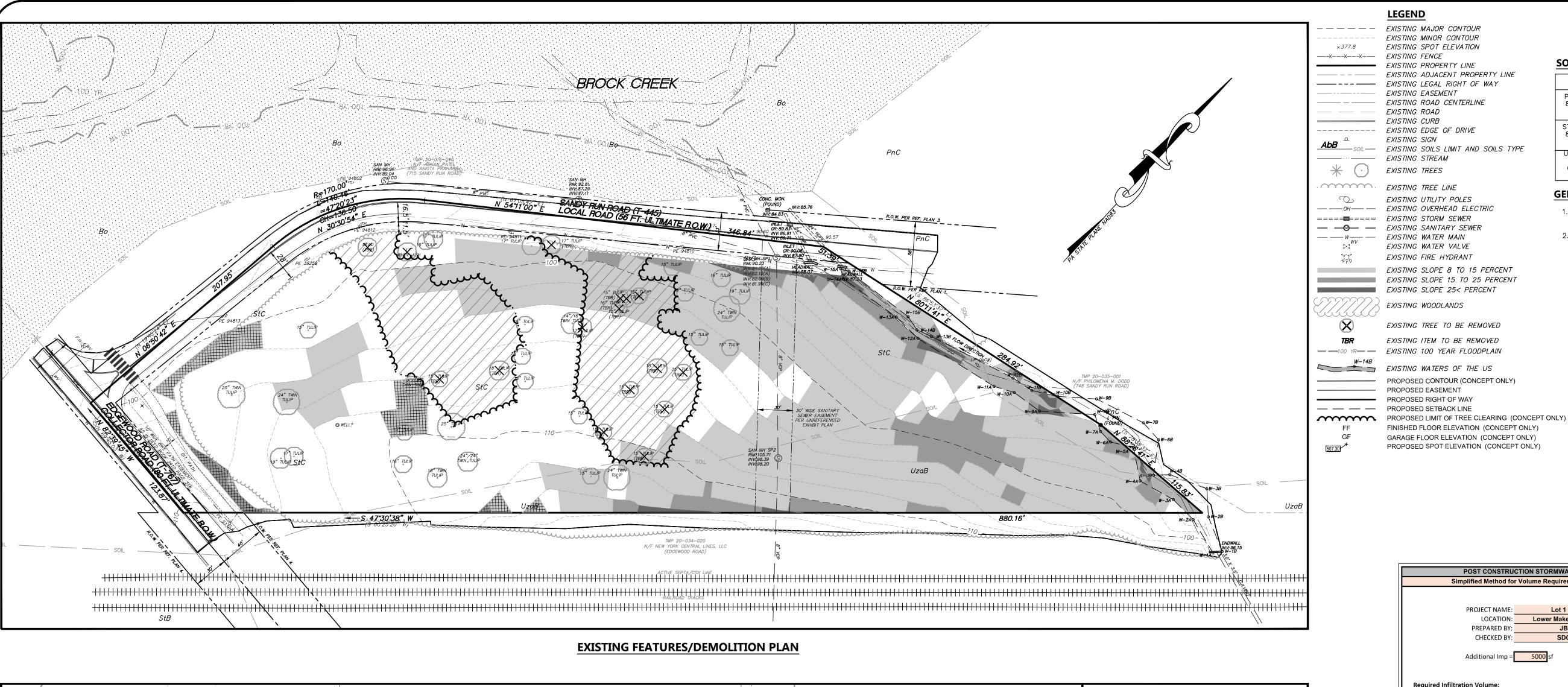
CAROLINE TIMKO-NOYES

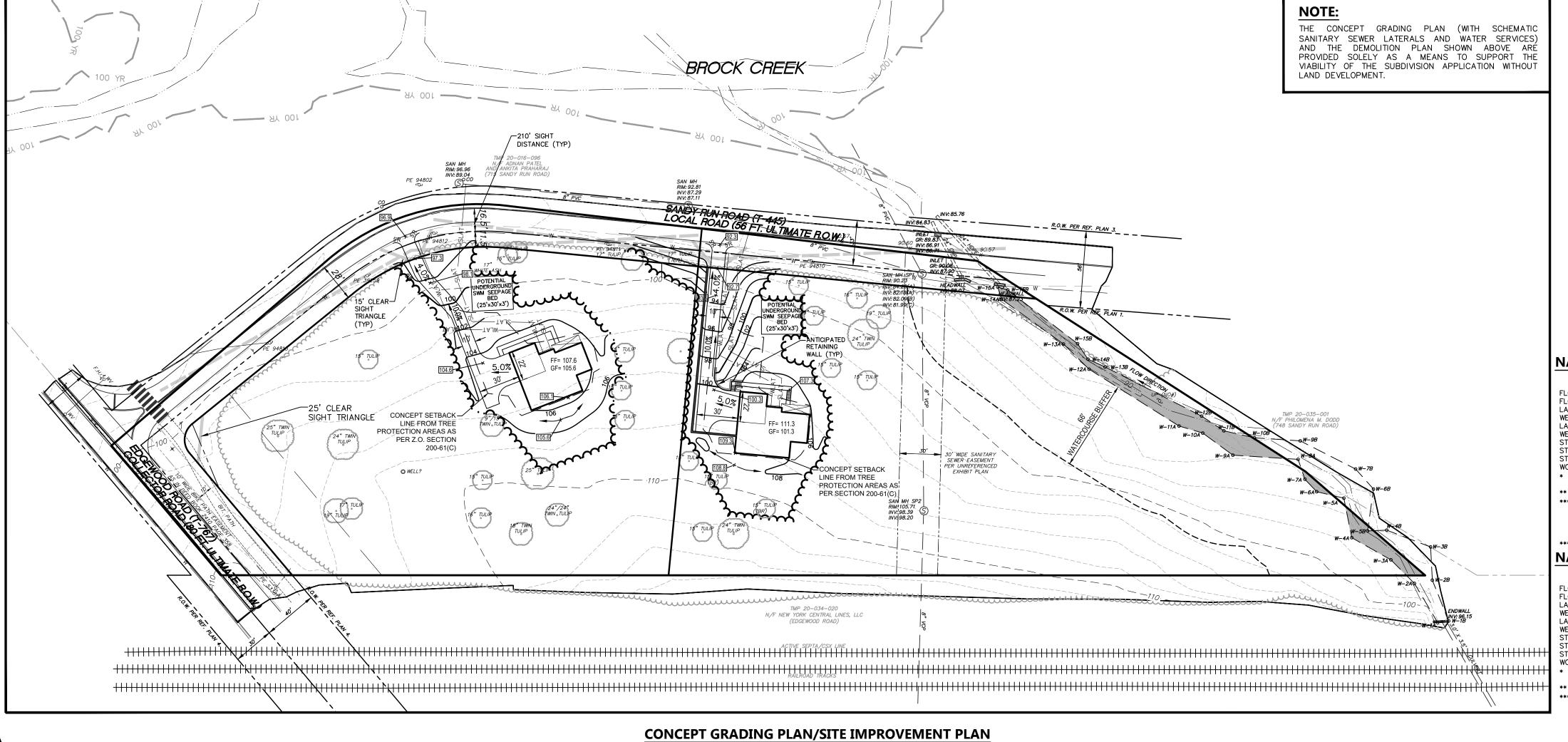
CHECKED BY

**B NUMBER** TMP 20-034-020-004

LOWER MAKEFIELD TOWNSHIP

**BUCKS COUNTY, PENNSYLVANIA** 1 of 2





**LEGEND** - — — — — EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR ×377.8 EXISTING SPOT ELEVATION —-×---×--- EXISTING FENCE **SOIL LIMITATIONS:** EXISTING PROPERTY LINE EXISTING ADJACENT PROPERTY LINE SOIL TYPE ---- EXISTING LEGAL RIGHT OF WAY --- EXISTING EASEMENT PENN-LANSDALE COMPLEX, 8 TO 15 PERCENT SLOPES ———— EXISTING ROAD CENTERLINE - -- EXISTING ROAD *EXISTING CURB* STEINBURG GRAVELLY LOAM, EXISTING EDGE OF DRIVE 8 TO 15 PERCENT SLOPES EXISTING SIGN Abb Soil— EXISTING SOILS LIMIT AND SOILS TYPE URBAN LAND-UDORTHENTS. ----- EXISTING STREAM GRAVELLY COMPLEX, 0 TO 8 PERCENT SLOPES EXISTING TREES EXISTING TREE LINE

EXISTING UTILITY POLES

EXISTING WATER VALVE

EXISTING FIRE HYDRANT

EXISTING WOODLANDS

PROPOSED EASEMENT

PROPOSED RIGHT OF WAY

EXISTING SLOPE 8 TO 15 PERCENT

EXISTING TREE TO BE REMOVED EXISTING ITEM TO BE REMOVED

PROPOSED CONTOUR (CONCEPT ONLY)

FINISHED FLOOR ELEVATION (CONCEPT ONLY)

GARAGE FLOOR ELEVATION (CONCEPT ONLY) PROPOSED SPOT ELEVATION (CONCEPT ONLY)

### **GENERAL NOTES:**

CHAPTER 93.

1. SOILS SHOWN HEREON ARE AS MAPPED BY THE NATURAL RESOURCES CONSERVATION SERVICES (NRCS) WEBSITE FOR BUCKS COUNTY ON JULY 5, 2022. 2. THE SITE DRAINS TO AN UNNAMED TRIBUTARY PRIOR TO ENTERING THE BROCK CREEK WATERSHED. THE WATERS DESIGNATED/EXISTING USES ARE WWF (WARM WATER FISHES) AS CLASSIFIED BY THE PA CODE

PER TOWNSHIP REVIEW

**SERIAL NO. 20230610854** 

REV DESCRIPTION

Before You Dig Anywhere Know what's below. STOPI CALL 1-800-242-1776
TOLL FREE
Call before you dig. PA Low requires 3 working days notice before you exceed to

PA ONE CALL SYSTEM, INC. **GRAPHIC SCALE** 0 25 50

1 INCH = 50 FT

ONLY THOSE PLANS WHICH CONTAIN A DIGITAL MPRESSED, OR COLORIZED INK SEAL OF THE RESPONSIBLE PROFESSIONAL SHALL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIFICALLY PREPAREI FOR THE APPLICANT DESIGNATED HEREON. ANY MODIFICATION, REVISION, DUPLICATION OR USE WITHOUT THE WRITTEN CONSENT OF VAN CLEEF WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BI AT THE SOLE DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.

ROBERT W. COOK, PA P.L.S. ENNSYLVANIA PROFESSIONAL URVEYOR NUMBER SU075256

AMUEL D. COSTANZO, PA PE



VAN CLEEF ENGINEERING ASSOCIATES, LLC 501 NORTH MAIN STREET, DOYLESTOWN, PA 18901 WEB: WWW.VANCLEEFENGINEERING.COM PHONE (215) 345-1876

EXISTING FEATURES/
DEMOLITION PLAN &
CONCEPT GRADING/
SITE IMPROVEMENT PLAN FOR

THERESA CLEARY AND CAROLINE TIMKO-NOYES

HECKED BY

TMP 20-034-020-004

LOWER MAKEFIELD TOWNSHIP **BUCKS COUNTY, PENNSYLVANIA** 

2 of 2

NATURAL RESOURCE PROTECTION (LOT1):

			REQUIRED	PROPOSED
	RESOURCE PROTECTION RATIO	LAND IN RESOURCE*	RESOURCE PROTECTION LAND	RESOURCE PROTECTION LAND****
FLOODPLAIN	100%	0.000 AC.	0.000 AC.	0.000 AC.
FLOODPLAIN SOILS (ABUTTING DEL. RIVER)	50%	0.000 AC.	0.000 AC.	0.000 AC.
LAKES OR PONDS `	100%	0.000 AC.	0.000 AC.	0.000 AC.
WETLANDS AND WATERS	100%	0.000 AC.	0.000 AC.	0.000 AC.
LAKE AND POND SHORELINE	100%	0.000 AC.	0.000 AC.	0.000 AC.
WETLANDS AND WATERCOURSE BUFFERS***	100%	0.000 AC.	0.000 AC.	0.000 AC.
STEEP SLOPES (8%-15%)**	50%	0.261 AC.	0.131 AC.	0.204 AC.
STEEP SLOPES (15%-25%)**	70%	0.000 AC.	0.000 AC.	0.000 AC.
STEEP SLOPES (25% PLUS)**	100%	0.000 AC.	0.000 AC.	0.000 AC.
WOODLAND ASSOCIATIONS R-2	75%	1.568 AC.	1.176 AC.	1.220 AC.
* THE AMOUNT OF LAND IN EACH RESO	URCE IS THE TOTAL AMOU	INT OF THAT RESO	URCE OUTSIDE THE ULTIM	ATE RIGHTS OF WAY OF

POST CONSTRUCTION STORMWATER MANAGEMENT

LOCATION: PREPARED BY

**Required Infiltration Volume:** 

Proposed Infiltration Volume

Utilizing a seepage bed

Lower Makefield Township, Bucks County

Rv = 2.00 inches x (total impervious area in square feet)

900.0 cf (40% voids)

833.3 OK

\*\* EXCLUDES STEEP SLOPE AREAS LESS THAN 3,000 SF

\*\*\* STANDARD WATERCOURSE BUFFER WIDTH IS 50 FEET, HOWEVER PURSUANT TO ZONING ORDINANCE \$200-51.B.(4)(c)[1] IF SLOPES WITHIN 300 FEET OF THE WATERCOURSE ARE 5% OR GREATER, THEN WATER COURSE BUFFER IS TO INCREASE 4' FOR EACH PERCENT OF SLOPE GREATER THAN 5%. THE EXISTING (AVERAGE) SLOPE WITHIN 300 FEET OF WATERCOURSE ARE 5% OR GREATER.

\*\*\* A SET DEP DEPONT OF SLOPE OVER 5 - 16 THEREFORE THE WATERCOURSE BUFFER INCREASES FROM 50 FEET TO 4%. 4 x 4 FEET PER PERCENT OF SLOPE OVER 5 = 16. THEREFORE THE WATERCOURSE BUFFER INCREASES FROM 50 FEET TO

\*\*\*\* ASSUMES ENTIRE TEMPORARY GRADING EASEMENT ON LOT 1 WILL BE DISTURBED.

NATURAL RESOURCE PROTECTION (LOT 2).

NATURAL RESOURCE PRO	TECTION (LOT	<b>4)</b> .		
			REQUIRED	PROPOSED
	RESOURCE PROTECTION RATIO	LAND IN RESOURCE*	RESOURCE PROTECTION LAND	RESOURCE PROTECTION LAND
FLOODPLAIN	100%	0.000 AC.	0.000 AC.	0.000 AC.
FLOODPLAIN SOILS (ABUTTING DEL. RIVER)	50%	0.000 AC.	0.000 AC.	0.000 AC.
LAKES OR PONDS	100%	0.000 AC.	0.000 AC.	0.000 AC.
WETLANDS AND WATERS	100%	0.069 AC.	0.069 AC.	0.069 AC.
LAKE AND POND SHORELINE	100%	0.000 AC.	0.000 AC.	0.000 AC.
WETLANDS AND WATERCOURSE BUFFERS***	100%	0.596 AC.	0.596 AC.	0.596 AC.
STEEP SLOPES (8%-15%)**	50%	1.237 AC.	0.619 AC.	1.134 AC.
STEEP SLOPES (15%-25%)**	70%	0.206 AC.	0.144 AC.	0.199 AC.
T STEEP SLOPES (25% PLUS)**	100%	0.031 AC.	0.031 AC.	0.031 AC.
WOODLAND ASSOCIATIONS R-2	75%	1.920 AC.	1.440 AC.	1.578 AC.
+ $+$ the amount of Land in each reso	URCE IS THE TOTAL AMOU	NT OF THAT RESO	URCE OUTSIDE THE ULTI	MATE RIGHTS OF WAY OF

EXCLUDES STEEP SLOPE AREAS LESS THAN 3,000 SF \*\*\* STANDARD WATERCOURSE BUFFER WIDTH IS 50 FEET, HOWEVER PURSUANT TO ZONING ORDINANCE \$200-51.B.(4)(c)[1] IF SLOPES WITHIN 300 FEET OF THE WATERCOURSE ARE 5% OR GREATER, THEN WATER COURSE BUFFER IS TO INCREASE 4' FOR EACH PERCENT OF SLOPE GREATER THAN 5%. THE EXISTING (AVERAGE) SLOPE WITHIN 300 FEET OF WATERCOURSE IS 9%. 9%-5% = 4%. 4 x 4 FEET PER PERCENT OF SLOPE OVER 5 = 16. THEREFORE THE WATERCOURSE BUFFER INCREASES FROM 50 FEET TO 66 FEET.

NOT FOR LAND DEVELOPMENT OR FOR CONSTRUCTION