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PENNSYLVANIA ACT 187 REQUIREMENTS

UNDERGROUND UTILITIES SERIAL NO:. 20250700998

CHESTER VALLEY ENGINEERS, INC. DOES NOT GUARANTEE THE ACCURACY OF THE LOCATIONS FOR EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN ON THE PLANS, NOR DOES CHESTER VALLEY ENGINEERS, INC. GUARANTEE THAT ALL SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES BEFORE THE START OF WORK.

SEE SHEET 1 FOR FACILITY OWNER'S DESIGNATED OFFICE ADDRESS AND TELEPHONE NUMBER.

PENNSYLVANIA ONE CALL SYSTEM, INC.
CALL 3 WORKING DAYS BEFORE YOU DIG
1-800-242-1776
POC'S SERIAL NUMBER: 20250700998

EXCAVATIONS, TRENCHING, AND SHORING

ALL EXCAVATIONS, TRENCHING, AND SHORING OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING UNITED STATES DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION PUBLICATIONS OR THE LATEST REVISIONS THERETO:

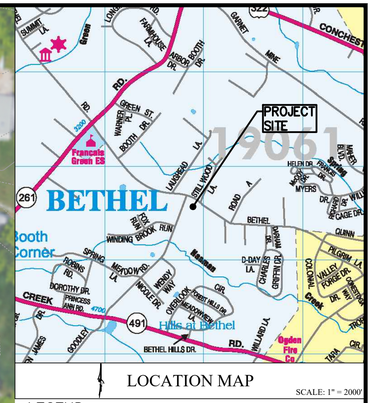
(1) CONSTRUCTION INDUSTRY STANDARDS AND INTERPRETATIONS (OSHA 2207) SUBPART "P", PART 1926/1910 – "EXCAVATIONS, TRENCHING AND SHORING".

(2) "EXCAVATIONS AND TRENCHING OPERATIONS" (OSHA 2226) DATED 1985 (REVISED).

SOILS LIST

SYMBOL	DESCRIPTION	DEPTH TO SEASONALLY HIGH WATER TABLE	DEPTH TO BEDROCK	FREQUENCY OF: FLOODING	FREQUENCY OF: PONDING	HYDROLOGIC SOIL GROUP	HYDRIC SOIL RATING
BAILE SILT LOAM							
BoA	0% TO 3% SLOPES	8" TO 10"	80"+	NONE	FREQUENT	D	YES
GLENVILLE SILT LOAM							
GnB	3% TO 8% SLOPES	18"–22"	29"–31"	NONE	NONE	C/D	NO
GaB	0% TO 8% SLOPES	10"–11"	29"–31"	NONE	NONE	D	NO
HATBORO SILT LOAM							
HoA	0% TO 3% SLOPES	8"–12"	80"+	FREQUENT	NONE	C/D	YES
NESHAMINY GRAVELLY SILT LOAM							
NgC	8% TO 15% SLOPES	80"+	48"–80"	NONE	NONE	C	NO
NgD	15% TO 25% SLOPES	80"+	48"–80"	NONE	NONE	C	NO
NnB	3% TO 8% SLOPES	80"+	48"–80"	NONE	NONE	D	NO

TAX FOLIO #03-00-00042-00, #03-00-00333-99



LEGEND

EXISTING FEATURES

- EXISTING PROPERTY BOUNDARY
- EXISTING ADJOINING PROP. LINE
- EXISTING RIGHT-OF-WAY LINE
- EXISTING EASEMENT
- EXISTING SETBACK BOUNDARY
- EXISTING STREAM
- EXISTING FLOODPLAIN
- EXISTING BUILDING
- 404 — EXISTING 1' CONTOURS
- 405 — EXISTING 5' CONTOURS
- × 406.00 — EXISTING SPOT ELEVATION
- GeB2, GeC3 — EXISTING SOIL TYPE
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING FENCE
- EXISTING STORM INLET AND PIPE
- EXISTING MANHOLE AND PIPE
- F — EXISTING U/G FIRE LINE
- W — EXISTING U/G WATER LINE
- E — EXISTING U/G ELECTRIC LINE
- T — EXISTING U/G TELEPHONE LINE
- G — EXISTING U/G GAS LINE
- OH — EXISTING OVERHEAD WIRES
- EXISTING LIGHT POLE
- EXISTING SIGN
- EXISTING UTILITY POLE
- EXISTING CONIFEROUS TREE
- EXISTING DECIDUOUS TREE
- EXISTING TREE & SHRUB LINE
- TP1 — INFILTRATION TEST LOCATION

PROPOSED FEATURES

- PROPOSED BITUMINOUS PAVEMENT TRAIL
- PROPOSED CONCRETE PAD
- PROPOSED BRIDGE
- PROPOSED SIGN
- 404 — PROPOSED 2' CONTOURS
- 410 — PROPOSED 10' CONTOURS
- × 406.00 — PROPOSED SPOT ELEVATION

Scale in Feet
0 20 40 60 120 180 240
1" = 60'

GRADING & UTILITY PLAN

NO.	DATE	REVISION

NPDES PERMIT PLANS
FOR
SHAFFER PRESERVE
1657 BETHEL ROAD
BETHEL TOWNSHIP - DELAWARE COUNTY - PENNSYLVANIA

ChesterValley ENGINEERS, INC.
112 Moores Road, Suite 200, Malvern, PA 19355
610-644-4623
www.chestervc.com

SCALE	DATE	DRAWN BY	CHECKED BY	DRAWING
1" = 60'	11/24/2025	JRL	RRB	

PROJECT NO. 22325
F.B.

J:\CVE-2200\22325-Shaffer Preserve\dwg\Sheets\EXHIBITS\22325-Grading Plan Exhibit.dwg, 11/18/2025 9:25:07 AM,