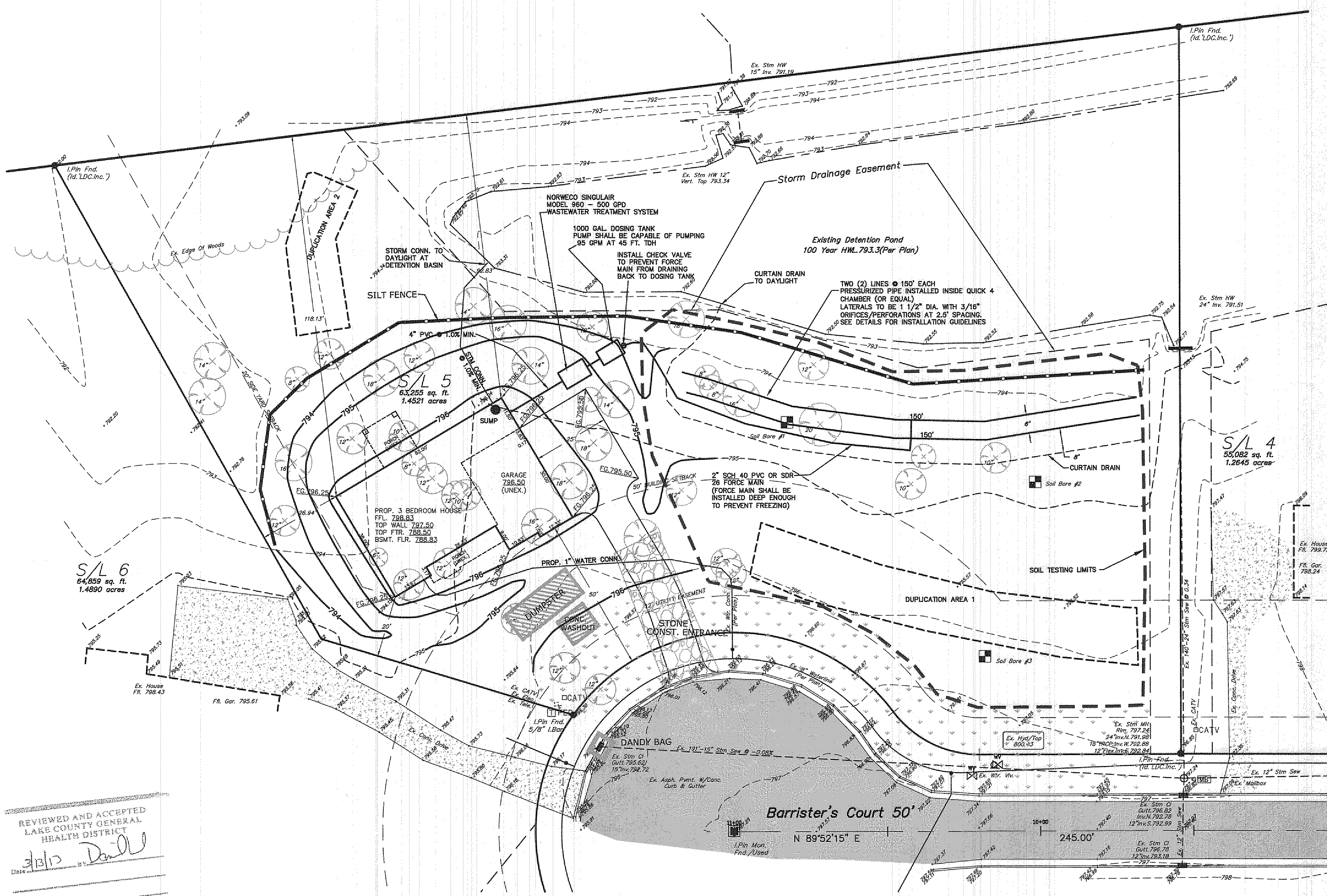

SWP3 LEGEND

(line)	SILT FENCE/EARTH DISTRUBING LIMITS
I.P.	INLET PROTECTION
(hatch)	AREAS REQUIRING TEMPORARY SEEDING
(hatch)	STONE CONSTRUCTION ENTRANCE
(hatch)	MISC. BMP (Waste Disposal/Dumpster/Conc. Washout/Fuel Tanks)
—— 987 ——	PROPOSED CONTOUR
- - - - 987 - - - -	EXISTING CONTOUR

SWP3 SITE DESCRIPTION:

CURRENT USE:	WOODS/BRUSH/VACANT LOT
CONSTRUCTION ACTIVITY:	RESIDENTIAL HOME
TOTAL SITE ACREAGE:	1.45 AC.
DISTURBANCE AREA:	0.83 ACRES
PRE-DEVELOPEMENT PERVIOUS AREA:	1.17 ACRES (81%)
PRE-DEVELOPED WATER SURFACE:	0.28 ACRES (19%)
PRE-DEVELOPEMENT IMPERVIOUS AREA:	0 ACRES (0%)
PRE-DEVELOPMENT CURVE NUMBER:	80
POST-DEVELOPMENT PERVIOUS AREA:	1.07 ACRES (74%)
POST-DEVELOPMENT WATER SURFACE:	0.28 ACRES (19%)
POST-DEVELOPMENT IMPERVIOUS AREA:	0.10 ACRES (7%)
POST-DEVELOPMENT CURVE NUMBER:	81
FIRST RECEIVING WATER BODY:	UNNAMED TRIBUTARY
SUBSEQUENT RECEIVING WATER BODY:	EAST BRANCH OF THE CHAGRIN
PREDOMINANT SOIL GROUP:	Platea (PsB) Soil Group 'C'
WATER RESOURCES WITHIN 200':	NO

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

House Grading Summary

KEY:
GAR.FLR.=GARAGE FLOOR ELEVATION AT GARAGE DOOR
TOP/WALL=TOP OF WALL ELEVATION
FRST.FLR.=FIRST FLOOR ELEVATION
BSMT.FLR.=BASEMENT FLOOR ELEVATION
TOP/FTR.=TOP OF FOOTER ELEVATION

ELEVATIONS USED TO ESTABLISH HOUSE FLOOR GRADES:
-GAR.FLR.+1'-0"=TOP OF WALL
-TOP/WALL + 1'-4"=FRST.FLR.
-TOP/WALL – 9'-0"=TOP/FTR.
-TOP/FTR. + 4"(0.33')=BSMT.FLR.

SITE MODIFICATION NOTES – SEPTIC LEACH FIELD – SHALLOW TRENCHES

FOR THIS SYSTEM, THE TRENCH DEPTH RESULTS IN THE DISTRIBUTION LINES/CHAMBERS EXTENDING ABOVE THE NATURAL GRADE OF IN SITU SOIL. 9" MINIMUM OF FILL MATERIAL BETWEEN THE TRENCHES AND 6" OUTSIDE BOTH END TRENCHES SHALL BE OF SAND, LOAMY SAND OR SANDY LOAM TEXTURE. FILL MATERIAL SHALL BE APPLIED IN A MANNER THAT PROTECTS AND CREATES AN INTERFACE WITH THE UNDERLYING IN SITU SOIL AND PREVENTS COMPACTION OF MATERIAL BETWEEN TRENCHES.

FILL MATERIAL APPLIED TO THE NATURAL GROUND SURFACE PRIOR TO THE EXCAVATION OF LEACHING TRENCHES SHALL BE SAND, LOAMY SAND, OR SANDY LOAM TEXTURE SOIL CAPABLE OF MAINTAINING TRENCH SIDEWALL STABILITY DURING INSTALLATION AND SHALL BE APPLIED IN A MANNER THAT BOTH PROTECTS AND CREATES AND INTERFACE WITH THE UNDERLYING IN SITU SOIL.

UNLESS EVALUATED AS SUITABLE, NO FILL MATERIAL SHALL BE PRESENT IN THE VERTICAL SEPARATION DISTANCE BELOW THE INFILTRATIVE SURFACE OF THE LEACHING TRENCHES. CAREFUL CONSIDERATION SHALL BE GIVEN PRIOR TO SITING THE LEACH TRENCHES IN SETTLED NON-COMPACTED FILL MATERIAL TO DETERMINE ITS SUITABILITY FOR SOIL ABSORPTION. OVER TIME, FILL MATERIAL MAY DEVELOP THE CHARACTERISTICS OF SOIL; HOWEVER, IT SHALL BE THOROUGHLY EVALUATED FOR SUCH CHARACHTERISTICS, IN ADDITION TO TREATMENT AND DISPERSAL CAPACITIES.

TRENCH DEPTH SHALL BE DETERMINED BY THE LIMITING CONDITION AND HAVE A MINIMUM DEPTH OF TWO INCHES INTO THE IN SITU SOIL. A LEACHING TRENCH BOTTOM SHALL BE AS LEVEL AS PRACTICAL ALONG ITS LENGTH, SHALL FOLLOW NATURAL SURFACE CONTOUR MAINTAINING THE SPECIFIED TRENCH DEPTH FROM THE NATURAL SURFACE OF THE GROUND ALONG THE ENTIRE TRENCH LENGTH, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE GUIDELINES IN THE 'INSTALLATION SECTION' OF SPECIAL DEVICE APPROVAL PER OAC 3701-29-20(C) – ALTERNATIVE LEACHING TRENCHES AS PER THE OHIO DEPARTMENT OF HEALTH.

FILL MATERIAL SHALL BE APPLIED TO THE LEACH FIELD TO THE APPROPRIATE DEPTH AND THEN TRENCHES SHALL BE EXCAVATED THROUGH THE FILL MATERIAL INTO THE IN SITU SOIL.

SEE SHALLOW LEACHING TRENCH CROSS SECTION DETAIL ON SHEET 2.

Stormwater Management Plan
Approved as shown and/or noted
JAMES R. GILLS, P.E.
County Drainage Engineer
By L.S. Date 3/27/13

REVIEWED AND ACCEPTED
LAKE COUNTY GENERAL
HEALTH DISTRICT
Date 3/13/13 By [signature]

SEWAGE DISPOSAL PERMIT MUST BE OBTAINED BY A LAKE COUNTY LICENSED INSTALLER BEFORE INSTALLATION IS STARTED

NOTE:
-END OF UTILITY CONNECTIONS SHOWN ON THIS PLAN REPRESENT PLAN CONNECTIONS OR EXISTING LATERAL MARKERS, IF LOCATED IN THE FIELD.
- CONTRACTOR TO VERIFY LOCATION & DEPTH OF LATERALS;
-SEE ARCHITECT PLANS FOR COMPLETE HOUSE DIMENSIONS;
-SUMP PUMP TO DRAIN TO "DAYLIGHT".
-DOWNSPOUTS TO BE SPLASH BLOCKED.

EXISTING UNDERGROUND UTILITIES NOTE:
THE SIZE AND LOCATION, BOTH HORIZONTAL AND VERTICAL OF THE UNDERGROUND UTILITIES SHOWN HEREON, HAVE BEEN OBTAINED BY A SEARCH OF AVAILABLE RECORDS. VERIFICATION BY FIELD OBSERVATION HAS BEEN CONDUCTED WHERE PRACTICAL. HOWEVER, POLARIS ENGINEERING & SURVEYING, INC. DOES NOT GUARANTEE THE COMPLETENESS NOR ACCURACY THEREOF.

2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECT

SEPTIC DESIGN DATA:
-Linear Loading Rate =2.7 Gal/Day/Ft
-Infiltration Loading Rate = 0.8 Gal/Day/Ft.Sq'd.
-Field Area Required = 450 Sq.Ft.
-Field Area Shown = 600 Sq.Ft.(Primary)
-System Length = 360/2.7=133' Use 150'
-System Width = 2.7/0.8=3.38 = Use 4' (2-2' Wide Trenches)
-Perched Seasonal Water Table 10"
-Bedrock > 50"
-3 Bedroom House = 360 Gal/Day

STATE OF OHIO – DANIEL LAUX S-7087 – REGISTERED – PROFESSIONAL SURVEYOR

THIS PLAT REPRESENTS A SURVEY WHICH MEETS THE MINIMUM STANDARDS FOR A BOUNDARY SURVEY IN THE STATE OF OHIO AS SPECIFIED IN THE OHIO ADMINISTRATIVE CODE CHAPTER 4733.37. SURVEYED ON AUGUST 22, 2008 BY DANIEL LAUX, P.S. #7087. ALL IRON PINS SHOWN HEREON WERE EITHER FOUND OR SET AS NOTED.

THE TOPOGRAPHY, INDICATED BY 1' CONTOURS, AND ELEVATIONS SHOWN HEREON REPRESENT AN ACTUAL FIELD SURVEY MADE BY DANIEL LAUX, P.S. NO. 7087 ON JANUARY 28, 2013. THE ELEVATIONS WERE TAKEN AT APPROPRIATE INTERVALS AND AS OF THE ABOVE DATE THEY EXISTED AS INDICATED HEREON.

DANIEL LAUX, P.S. NO. 7087 2/28/13 *DATE*

POLARIS ENGINEERING & SURVEYING, INC.
34600 CHARDON ROAD – SUITE D
WILLOUGHBY HILLS, OHIO 44094
(440) 944-4433 (440) 944-3722 (Fax)
www.polaris-es.com

BENCHMARK:
B.M. = T.B.M Set On Top Of Hydrants
Located As Noted
Elevation As Noted

Prepared For:
LONCAR QUALITY CONST.
7900 BARRISTER'S CT.
KIRTLAND, OHIO 44094
(440) 223-5710
ATT: ANDY LONCAR

DESIGN CERTIFICATION
THIS PLAN WAS PREPARED BY ME, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
NAME [signature] DATE 2/28/13

"AS-BUILT" CERTIFICATION
I HEREBY CERTIFY THAT THE CIRCLED INFORMATION IS EXISTING AS OBTAINED ON THE SITE ______ AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
NAME DATE

Sheet 1/3

STATE OF OHIO – DUSTIN R. KEENEY E-65515 – REGISTERED – PROFESSIONAL ENGINEER
STATE SEAL

SUBLOT 5
BARRISTER'S COURT
CITY OF KIRTLAND – LAKE COUNTY – OHIO

CONTRACT No. 12129
DATE: 2/1/13
SCALE: HOR. 1"=20'
VERT. N/A
FILENAME: Sublot 5