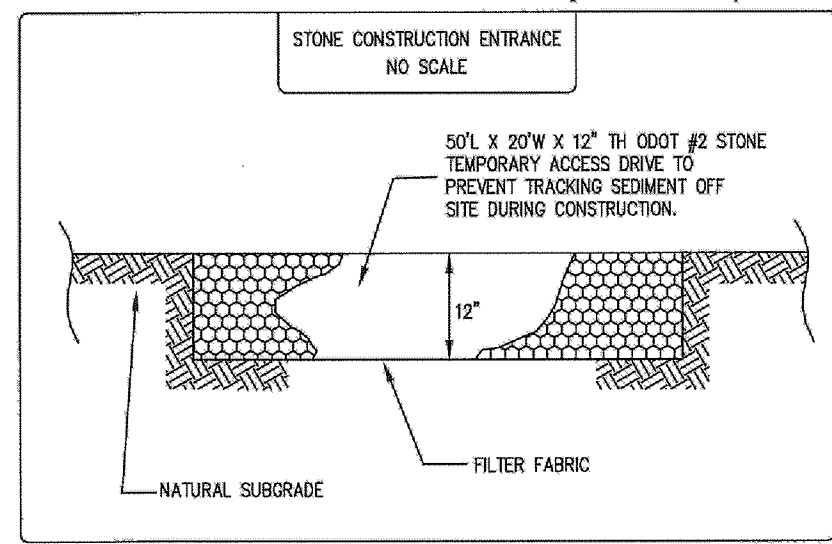
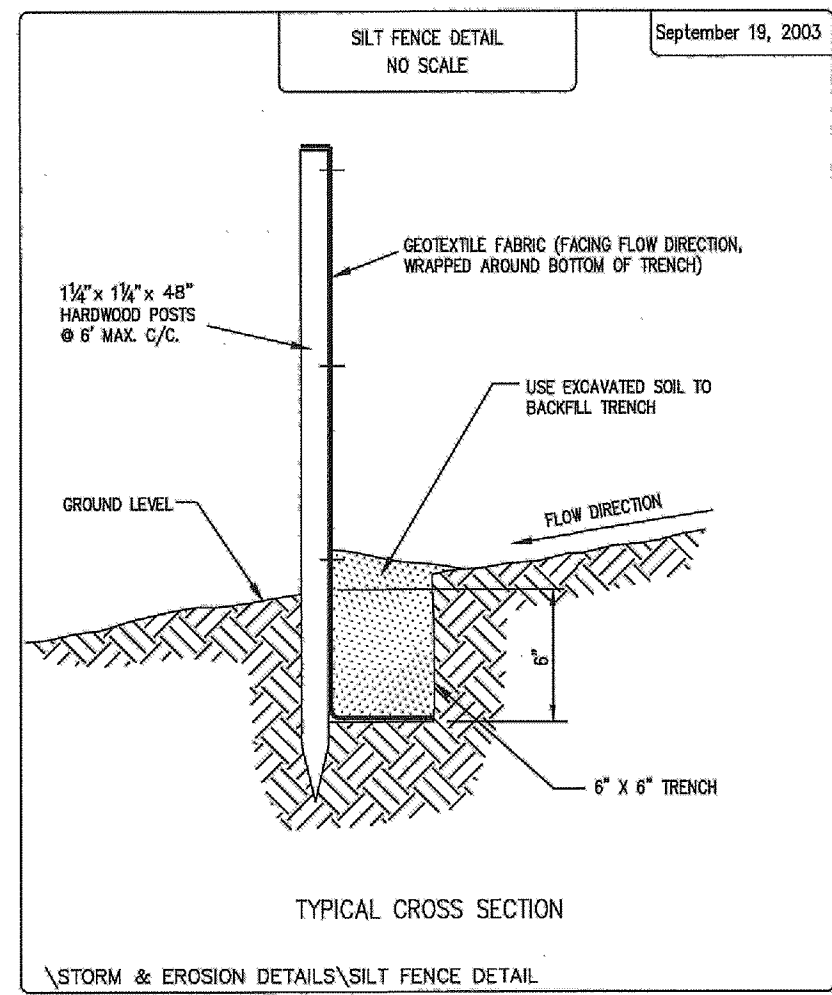


PERMANENT SEEDING SPECIFICATIONS			
Seed Mix	Lb./ac.	Lb. / 1000sqft	Notes
General Use			
Creeping Red Fescue	20-40	1/2-1	
Domestic Ryegrass	10-20	1/4-1/2	
Kentucky Bluegrass	10-20	1/4-1/2	
Tall Fescue	40		
Dwarf Fescue	40		
Steep Banks or Out Slopes			
Tall Fescue	40	1	
Crown Vetch	10	1/4	Do not seed later than August.
Tall Fescue	20	1/2	
Flax Pao	20	1/2	Do not seed later than August.
Tall Fescue	20		
Road Ditches and Swales			
Tall Fescue	40	1	
Dwarf Fescue	80	2 1/4	
Kentucky Bluegrass	5		
Lawns			
Kentucky Bluegrass	80	1 1/2	
Perennial Ryegrass	60	1 1/2	
Kentucky Bluegrass	60	1 1/2	For Shaded areas.
Creeping Red Fescue	60	1 1/2	

Notes: other approved seed species may be substituted.

Mulching

Straw mulch shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The mulch shall be spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000 sq. ft. sections and spread two 45-lb. bales of straw in each section.



Temporary Seeding Specifications			
Seeding Dates	Species	Lb. / 1000sqft	Per Acre
March 1 to August 15	Oats	3	4 bushel
	Tall Fescue	40	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.
August 16 to November 1	Rye	1	2 bushel
	Tall Fescue	40	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.
November 1 to Spring Seeding	Wheat	1	40 lb.
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.

Notes: other approved seed species may be substituted.

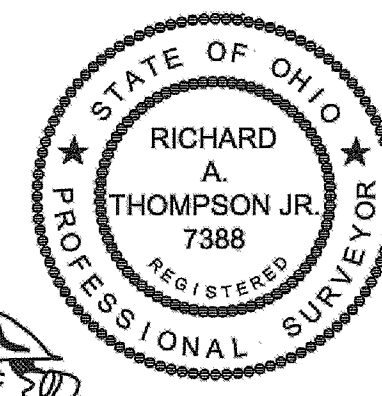
SWP3 SITE DESCRIPTION:

CURRENT USE:
CONSTRUCTION ACTIVITY:
TOTAL SITE ACRES: 11.639 AC.
DISTURBANCE AREA: 2.098 ACRES
PRE-DEVELOPMENT IMPERVIOUS AREA: 11.639 ACRES (100%)
PRE-DEVELOPMENT CURVE NUMBER: 0 ACRES (0%)
POST-DEVELOPMENT IMPERVIOUS AREA: 11.325 ACRES (97%)
POST-DEVELOPMENT IMPERVIOUS AREA: 0.314 ACRES (3%)
POST-DEVELOPMENT CURVE NUMBER: 80
UNNAMED TRIBUTARY: CHAGRIN RIVER
Mahoning Silt Loom (MgB)
Ellsworth Silt Loom (EgB)
NO
WATER RESOURCES WITHIN 200':
WOODS/VACANT LOT
RESIDENTIAL HOME
11.639 AC.
2.098 ACRES
11.639 ACRES (100%)
0 ACRES (0%)
79
11.325 ACRES (97%)
0.314 ACRES (3%)
80
UNNAMED TRIBUTARY: CHAGRIN RIVER
Mahoning Silt Loom (MgB)
Ellsworth Silt Loom (EgB)
NO

2 WORKING DAYS BEFORE YOU DIG
CALL 8-1-1
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECT

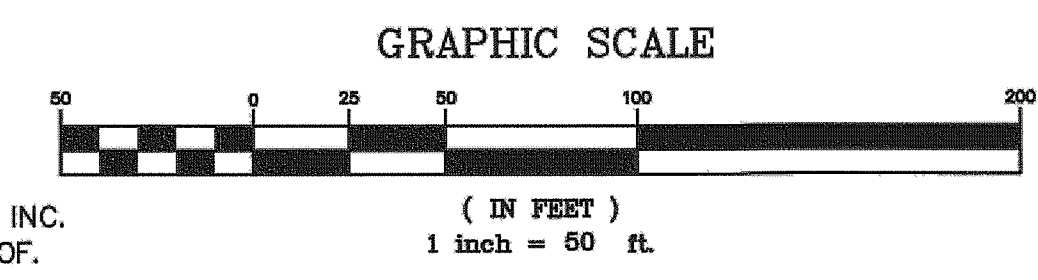
NOTE: THIS SURVEY SUBJECT TO CHANGE UPON RECEIPT OF ANY ADDITIONAL AVAILABLE UNDERGROUND UTILITY INFORMATION.

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. THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED HEREON. VERIFICATION BY FIELD OBSERVATION HAS BEEN CONDUCTED. WHERE PRACTICAL. HOWEVER, POLARIS ENGINEERING & SURVEYING, INC. DOES NOT GUARANTEE THE COMPLETENESS NOR ACCURACY THEREOF.



TOPOGRAPHIC CERTIFICATION:
I, the undersigned, hereby certify that this topography, indicated by 1' contours, and elevations shown hereon, represent an actual field survey made by me on the 5th day of June, 2014, and that the elevations were taken at appropriate intervals and that as of that date they existed as indicated hereon. Vertical datum is based on NAVD83.
Richard A. Thompson, Jr.
RICHARD A. THOMPSON, JR., P.S. #7388

SEPTIC DESIGN DATA:	
-Linear Loading Rate = 3.0 Gal/Day/Ft	
-Infiltration Loading Rate = 0.6 Gal/Day/Ft.Sq'd.	
-Perched Seasonal Water Table 8'	
-Bedrock >60'	
-4 Bedroom House = 480 Gal/Day	
(See Mound Calculations For Additional Information)	



Stormwater Management Plan
Approved as shown and/or noted
JAMES R. GILLS, P.E.
County Drainage Engineer
By: Gills Date: 12/2/2014

SETBACK INFORMATION* (R-28**)	
1. FRONT (IN FEET)	
R.O.W.	80
CL	100
2. SIDE	20
3. REAR	80

House Grading Summary

Elevations Used To Establish House Floor Grades:
-Gar.Flr.+2'-4"=Top/Wall
-Top/Wall+1'-2"=Fst.Flr.
-Top/Wall+8'-0"=Top/Ftr. (13 Course Bemt Wall)
-Top/Ftr.+4"(.03')=Bemt.Flr.

NOTES:
- DOWNSPOUTS AND FOOTER DRAINS TO DAYLIGHT TO EX. DITCH (SEE PLAN)
- GRINDER PUMP REQUIRED FOR BASEMENT PLUMBING

Erosion and Sediment Control Schedule
General
Any sediment-laden groundwater encountered during construction shall be treated prior to discharge.

Ingress-Egress
A stone access drive complete with under lying geo-textile fabric (20 feet wide and 50 feet long) for ingress and egress at the site shall be installed if there is not already an existing access drive. This drive shall be the only entrance and exit to the site.

Silt Fence
All silt fence shall be installed prior to any earthwork activities at the site in the locations shown on the site plan as well as along the front of any lot that slopes towards the street.

Temporary Seeding
Disturbed areas of the site that are to remain idle for more than thirty (30) days shall be properly seeded and straw mulched within seven (7) days of completion of initial grading. Temporary seeding and mulching of a thirty (30) foot strip of the entire front of the lot shall be maintained on the site once initial grading is complete.

Stabilization of critical areas within fifty (50) feet of any stream or wetland shall be complete within two (2) days of the disturbance if the site is to remain inactive for longer than fourteen (14) days.

Mulching
Straw-mulch shall be applied at a rate of 1 bale per every ten (10) feet of curb, at a width of thirty (30) feet of the entire length of the lot. Wood chips may also be used but must be spread at a minimum depth of four inches over the thirty-foot width and must be accompanied by a properly installed silt fence.

Maintenance
Erosion and sediment controls shall be inspected every seven (7) days or within 24 hours of a 0.5" or greater rainfall event. Necessary repairs shall be made at this time.

Notes:
All erosion and sediment control specifications, applications, and timetables are based on the descriptions and standards of The Ohio Department of Natural Resources Rainwater and Land Development Manual.

The specified erosion and sediment control standards are the general guidelines and shall not limit the right of the county to impose, at any time, additional, more stringent requirements. Nor shall the standards limit the right of the county to waive, in writing, individual requirements.

REV. No.	DATE	BY	CHK'D
1	9/15/14		
2	9/24/14		

STATE OF OHIO
DUSTIN R. KEENEY
E-66516
REGISTERED PROFESSIONAL ENGINEER

DATE: 7/29/14
SCALE: HOR. 1"=50'
VERT. 1"=10'
FOLDER: Site Plan
FILENAME: Site Plan
TAB: Site Plan
DRAWN: JCK

ANDY LONCAR
8505 EAGLE RD.
CITY OF KIRTLAND - LAKE COUNTY - OHIO

polaris
Engineering & Surveying

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

SITE PLAN

CONTRACT No.	
14092	
SHEET	OF
1	3