

Erosion and Sediment Control Schedule

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. This drive shall be the only entrance and exit to the site.

Silt Fence

All silt fences 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 toward the street.

Temporary Seeding

Disturbed areas of the site that are to remain idle for more than twenty-one (21) 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 that time.

Note:

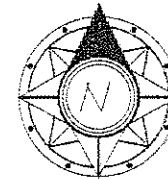
All erosion and sediment control specifications, applications, and timetables are based on the descriptions and standards of the Ohio Department of Natural Resources "Rainwater and Land Development Manual" and can be found in the Lake County Erosion and Sediment Control Rules as adopted December 31, 1999.

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.

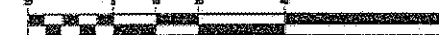
Temporary Seeding Specifications

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

Note: other approved seed species may be substituted.



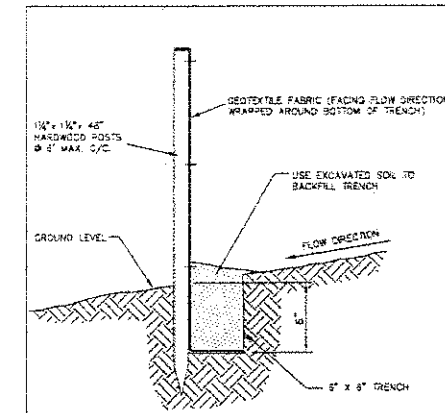
GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

Note: Contractor To Verify Depth Of Exst. 6" San. Conn. Prior To Basement Excavation To Verify Basement Sanitary Service Is Available.

Elevations Used To Establish House Grades:
Garage Flr. + 1.0' = Top Wall
Top Wall + 11 1/2" (0.96') = First Flr.
Top Wall - 9'0" = Top Of Footer
Top Of Footer + 0.33' = Basmt. Flr.



TYPICAL CROSS SECTION

SILT FENCE DETAIL

NO SCALE

DECEMBER 16, 1997

ESTIMATED IMPERVIOUS AREA
HOUSE: 0.07 AC.
DRIVE: 0.02 AC.
TOTAL: 0.09 AC.

Str. Add'l Villa Grande Drive
- See Architect Plans For Complete House Dimensions.
- Utility Connections Per Plan.
- Contractor To Verify Location And Depth Of All Lot Lines.

NOTE: HOUSE DOWNSPOUTS TO BE TIED INTO EXISTING STORM SYSTEM.
- FINAL LOCATION OF DOWNSPOUTS TO BE VERIFIED WITH ARCHITECTURAL PLANS.

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS TOPOGRAPHY, INDICATED BY 5', 1', OR 2' CONTOURS, AND ELEVATIONS SHOWN HEREON, REPRESENT AN ACTUAL FIELD SURVEY MADE BY ME ON THE 18th DAY OF AUGUST, 2010, AND THAT THE ELEVATIONS WERE TAKEN AT APPROPRIATE INTERVALS AND THAT AS OF THAT DATE, THEY EXISTED AS INDICATED HEREON.

Charles W. Szucs, P.E. 65628

Site & Grade Hrs. 8-25-10



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

DESIGN CERTIFICATION

THIS PLAN WAS PREPARED BY ME, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NAME

DATE

BENCHMARK:

B.M. = T.B.M. Set On Top Of Hydrant
Located As Noted
Elevation 611.77



"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

SUBLOT 11

Villa Grande At
Lake Erie Shores

Painesville Twp. - Lake County - Ohio

CONTRACT No.

10082

DATE: 8-25-10

SCALE: HOR. 1"=20'

VERT. 1"=10'

FILENAME: 8/25/10_1082

Lake Erie

LAKE ERIE SUBMERGED LAND LEASE
TO PB & J Villa Grande, LLC
Number: SUB-2147-LA
Doc. No. 20080050272

Stormwater Management Plan
Approved as shown and/or noted
JAMES R. GILLS, P.E.
County Drainage Engineer

By GSJH Date 9-14-2010

EROSION CONTROL TIMETABLE

September 22, 2010

ACCEPTABLE EROSION CONTROL TIMETABLE

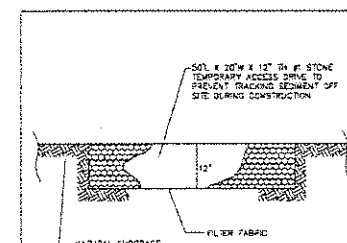
NO.	DATE	DESCRIPTION	STATUS
1	9/22/10	Site Preparation	Complete
2	9/22/10	Grading	Complete
3	9/22/10	Seeding	Complete
4	9/22/10	Mulching	Complete
5	9/22/10	Silt Fence Installation	Complete

** STORM DETENTION TIME MAY BE - NOT TO BE USED FOR DETENTION, BECAUSE TO PROVIDE THE DRAINAGE SYSTEM MAY ALSO BE USED TO HOLD WATER.

SCHEDULE OF MAJOR CONSTRUCTION OPERATIONS

NO.	DATE	DESCRIPTION	STATUS
1	9/22/10	Site Preparation	Complete
2	9/22/10	Grading	Complete
3	9/22/10	Seeding	Complete
4	9/22/10	Mulching	Complete
5	9/22/10	Silt Fence Installation	Complete

STORM & EROSION DETAILS/EROSION CONTROL TIMETABLE



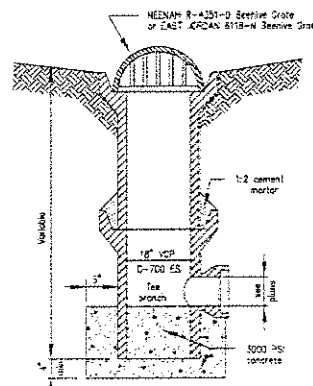
STONE ACCESS DRIVE

NO SCALE

DECEMBER 16, 1997

YARD DRAIN DETAIL

September 19, 2010



STORM & EROSION DETAILS/YARD DRAIN DETAIL

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.

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
CS	50.00'	25.31'	28.30'	S 32°08'34" E	30°28'27"



2 WORKING DAYS
BEFORE YOU DIG



CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECT

Proposed For:

B.R. Knez Construction, Inc.
8023 Crile Road
Unit 250
Concord Township, Ohio 44077
(440) 710-0711