SITE PLAN PREPARED FOR:

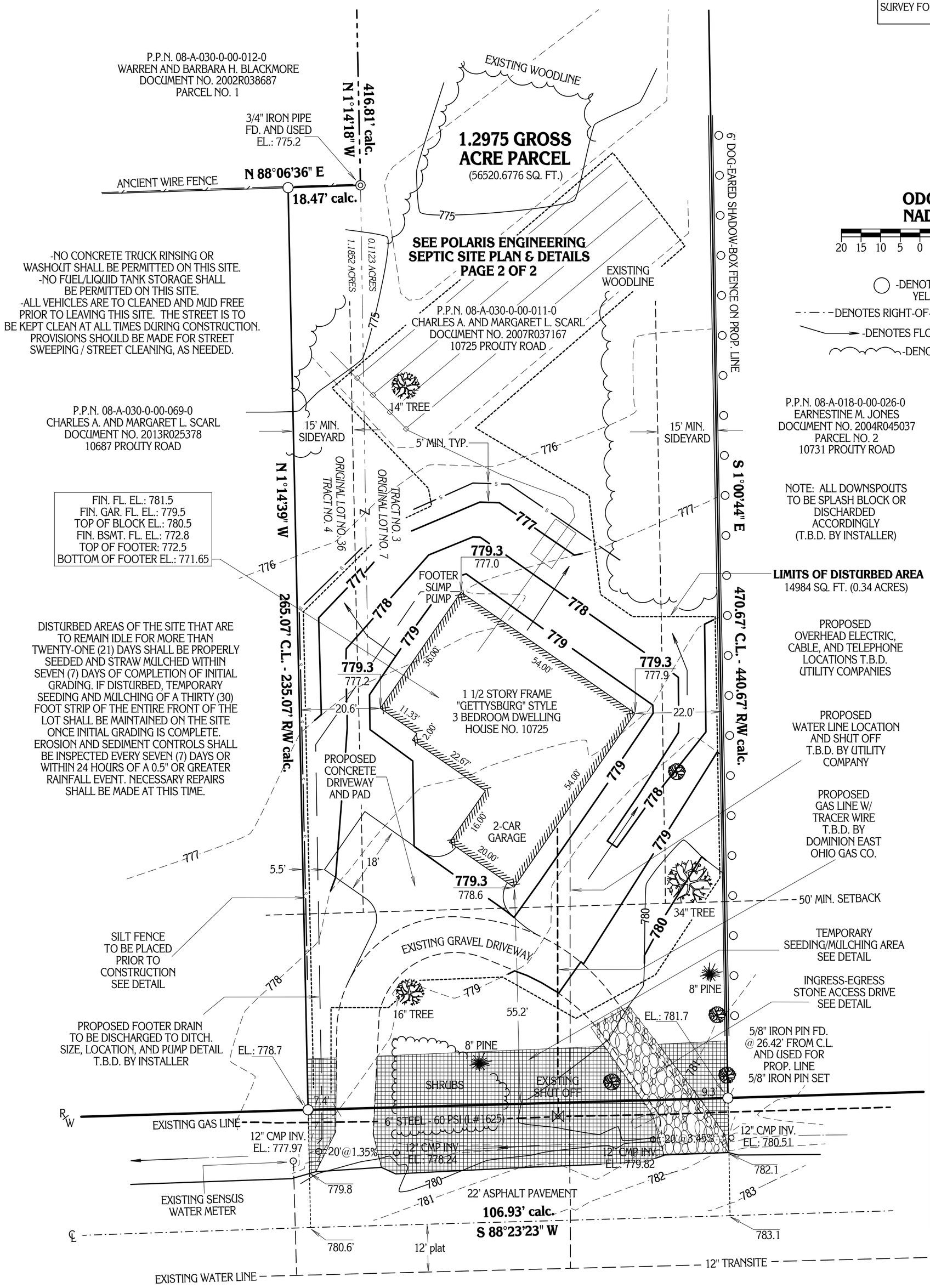
CHARLES A. AND MARGARET L. SCARL

P.P.N. 08-A-030-0-00-011-0 DOCUMENT NO. 2007R037167 10725 PROUTY ROAD

SITUATED IN THE TOWNSHIP OF CONCORD, COUNTY OF LAKE AND STATE OF OHIO AND KNOWN AS BEING PART OF ORIGINAL LOT NO. 36, IN TRACT NO. 4 AND PART OF ORIGINAL LOT NO. 7, IN TRACT NO. 3 WITHIN SAID TOWNSHIP, AND TOWNSHIP NO. 10 NORTH, RANGE VII WEST, IN THE CONNECTICUT WESTERN RESERVE SURVEY.

TOWNSHIP/CITY/VILLAGE:	MONTH: 23RD OCTOBER	PAGE: ONE OF TWO
CONCORD TOWNSHIP LOT NO. 36 IN TRACT NO. 4 AND LOT NO. 7 IN TRACT NO. 3 LAKE COUNTY, OHIO	YEAR: 2013	
SURVEY FOR: CHARLES A. AND MARGARET L. SCARL		

REVISED: MAY 28TH, 2014
REVISED: JULY 11TH, 2014



-NO CONCRETE TRUCK RINSING OR WASHOUT SHALL BE PERMITTED ON THIS SITE.
-NO FUEL/LIQUID TANK STORAGE SHALL BE PERMITTED ON THIS SITE.
-ALL VEHICLES ARE TO CLEANED AND MUD FREE PRIOR TO LEAVING THIS SITE. THE STREET IS TO BE KEPT CLEAN AT ALL TIMES DURING CONSTRUCTION. PROVISIONS SHOULD BE MADE FOR STREET SWEEPING / STREET CLEANING, AS NEEDED.

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. IF DISTURBED, 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. 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.

SILT FENCE TO BE PLACED PRIOR TO CONSTRUCTION SEE DETAIL

PROPOSED FOOTER DRAIN TO BE DISCHARGED TO DITCH. SIZE, LOCATION, AND PUMP DETAIL T.B.D. BY INSTALLER

P.P.N. 08-A-018-0-00-026-0
EARNESTINE M. JONES
DOCUMENT NO. 2004R045037
PARCEL NO. 2
10731 PROUTY ROAD

NOTE: ALL DOWNSPOUTS TO BE SPLASH BLOCK OR DISCHARDED ACCORDINGLY (T.B.D. BY INSTALLER)

LIMITS OF DISTURBED AREA
14984 SQ. FT. (0.34 ACRES)

PROPOSED OVERHEAD ELECTRIC, CABLE, AND TELEPHONE LOCATIONS T.B.D. UTILITY COMPANIES

PROPOSED WATER LINE LOCATION AND SHUT OFF T.B.D. BY UTILITY COMPANY

PROPOSED GAS LINE W/ TRACER WIRE T.B.D. BY DOMINION EAST OHIO GAS CO.

TEMPORARY SEEDING/MULCHING AREA SEE DETAIL

INGRESS-EGRESS STONE ACCESS DRIVE SEE DETAIL

TRUE NORTH
ODOT VRS AND CORS GNSS NEWORK
NAD83, NGVD88, GRS80, GEOID2012A

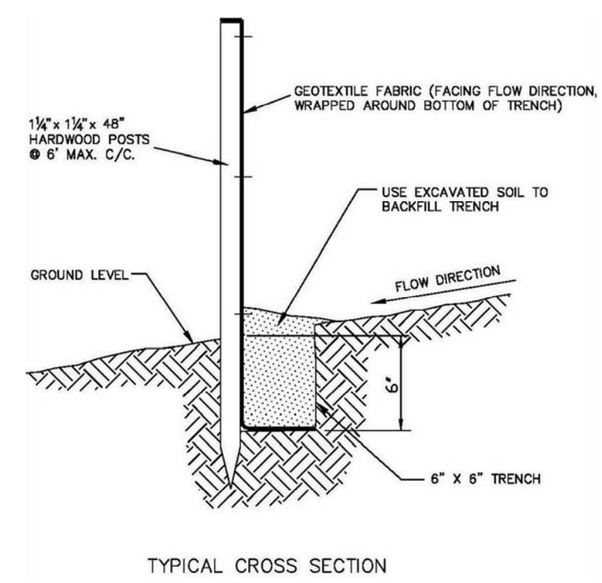
20 15 10 5 0 20 40 60 80

GRAPHIC SCALE: 1 INCH EQUALS 20 FEET

-DENOTES 5/8" x 30" IRON (STEEL) REBAR PIN (#5 REBAR) WITH YELLOW PLASTIC CAP BEARING "KOSIE P.S. 8167" SET
-DENOTES RIGHT-OF-WAY (R/W) CENTERLINE (C.L.)
T.B.D. - DENOTES "TO BE DETERMINED"
-DENOTES FLOW OF WATER (RUNOFF)
-DENOTES EDGE OF WOODLINE

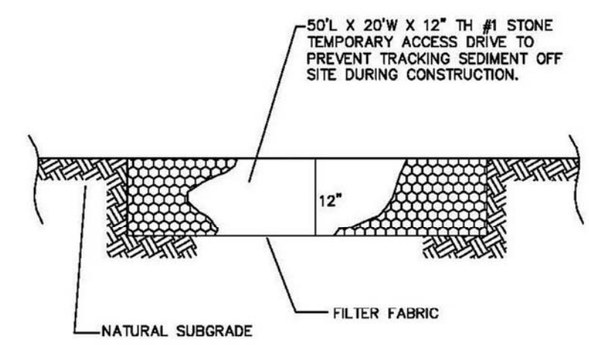
PROPOSED GRADE
EXISTING GRADE

SILT FENCE DETAIL



TYPICAL CROSS SECTION

STONE ACCESS DRIVE DETAIL



NO SCALE

TEMP. SEEDING DETAIL

Seeding Dates	Species	Lb. / 1000sqft	Per Acre
March 1 to August 15	Oats Tall Fescue Annual Ryegrass Perennial Ryegrass Tall Fescue Annual Ryegrass	3 1 1 1 1 1	4 bushel 40 lb. 40 lb. 40 lb. 40 lb. 40 lb.
August 16 to November 1	Rye Tall Fescue Annual Ryegrass Wheat Tall Fescue Annual Ryegrass Perennial Ryegrass Tall Fescue Annual Ryegrass	1 1 1 1 1 1 1 1 1	2 bushel 40 lb. 40 lb. 40 lb. 40 lb. 40 lb. 40 lb. 40 lb. 40 lb.
November 1 to Spring Seeding	Use mulch only, sodding practices or dormant seeding		

Note: other approved seed species may be substituted.

T.B.M. #99
BOLT ON N. SIDE OF PLATE ON HYDRANT
EL.: 785.94

I CERTIFY TO:

CHARLES A. AND MARGARET L. SCARL

THAT I HAVE SURVEYED THESE PREMESIS AND PREPARED THIS PLAT OF SURVEY IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 4733-37 OF THE OHIO REVISED CODE GOVERNING LAND SURVEYS IN THE STATE OF OHIO. THE BEARINGS SHOWN HEREON ARE BASED ON TRUE NORTH USING THE ODOT VRS AND CORS GNSS NETWORK (NAD83, NGVD88, GRS80, GEOID20012A). DISTANCES ARE BASED ON U.S. FEET WITH DECIMAL PARTS. THE ABOVE CERTIFICATION IS INTENDED ONLY TO THOSE PARTIES NAMED HEREIN, AND IS VALID ONLY WHEN ACCOMPANIED BY AN ORIGINAL SIGNATURE BELOW. THE UNDERSIGNED HAS NOT BEEN PROVIDED A TITLE EXAMINATION AND THIS SURVEY IS BASED ONLY ON THE DOCUMENTS SHOWN ON THIS PLAT OF SURVEY. NO LIABILITY IS ASSUMED FOR THE EXISTENCE OF ANY OTHER DOCUMENTS THAT MAY AFFECT THE SURVEYED PREMISES THAT WOULD BE REVEALED BY A TITLE EXAMINATION. THE UNDERSIGN ASSUMES NO LIABILITY FOR THE USE OF UNAUTHORIZED COPIES OF THIS PLAT OF SURVEY, NOR FOR ANY USE, OR RELIANCE UPON, BY PERSONS OTHER THAN THOSE SPECIFICALLY NAMED HEREIN FOR THE INTENDED PURPOSE OF THIS SURVEY.

ROBERT L. KOSIE, P.S.
REGISTERED PROFESSIONAL LAND SURVEYOR
REGISTRATION NO. 8167

STATE OF OHIO
ROBERT L. KOSIE
8167
REGISTERED
PROFESSIONAL SURVEYOR

This plat was prepared by
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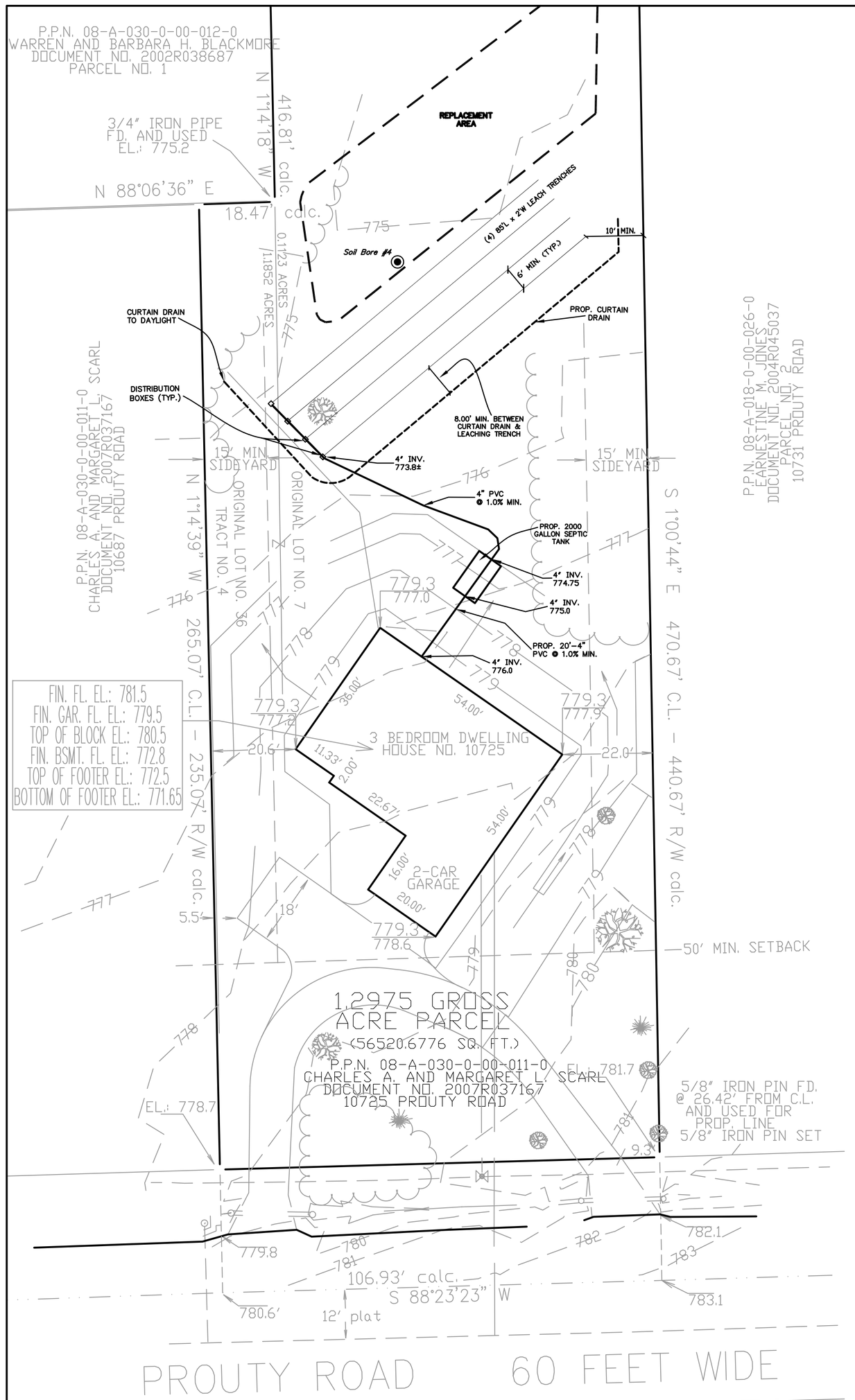
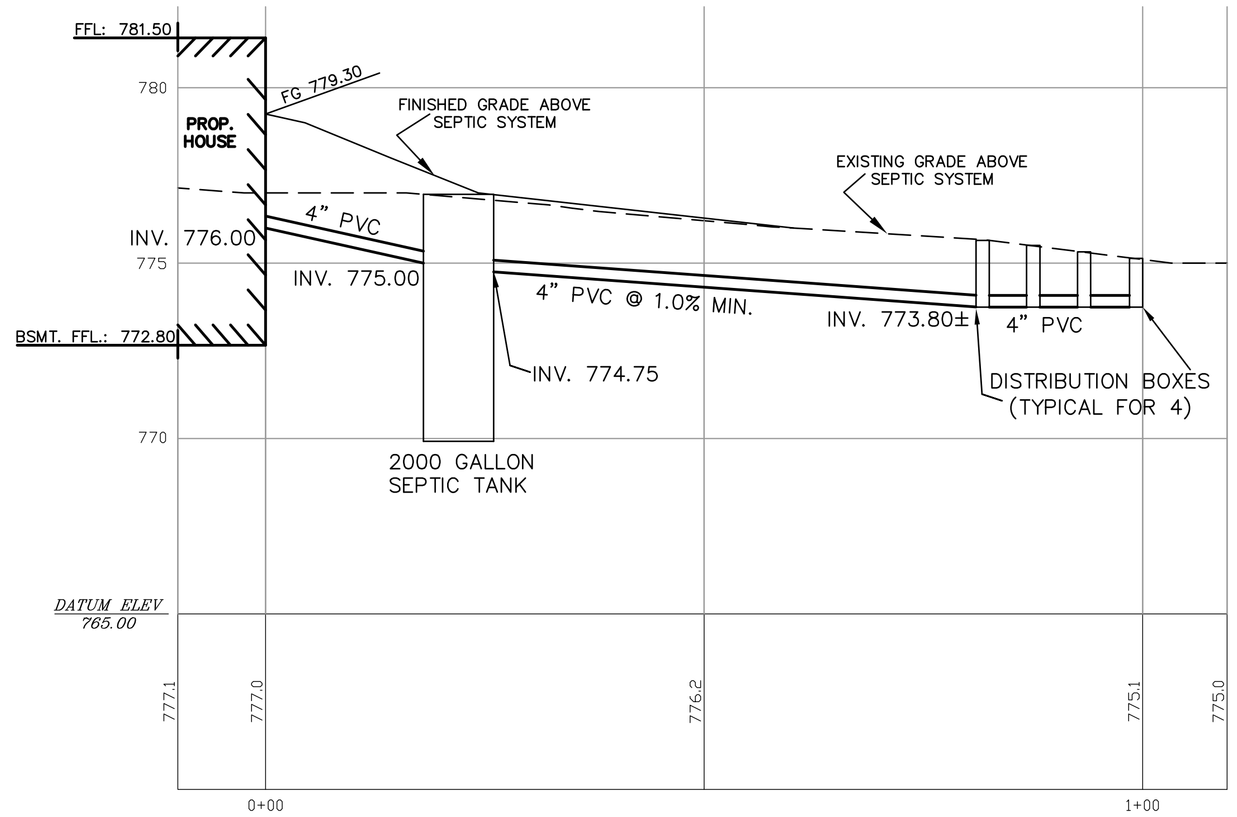
Professional Land Surveyors of Ohio

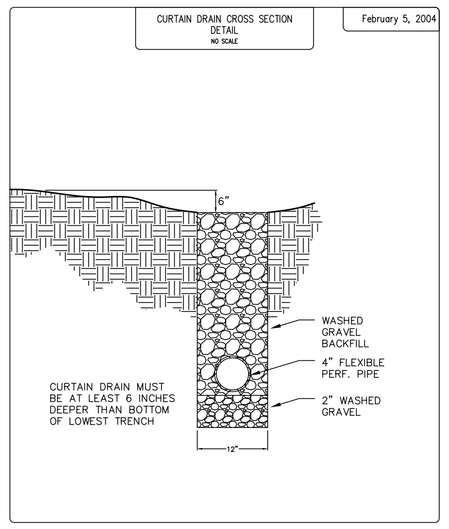
DBK PLAT NO. 710 2013

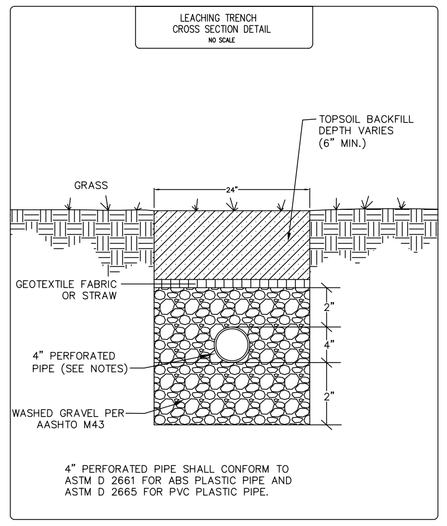




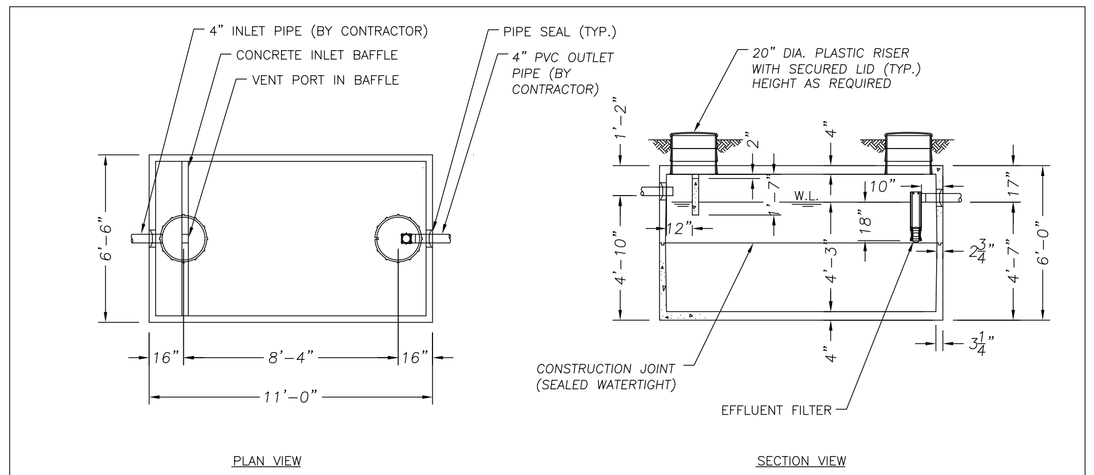
HYDRAULIC PROFILE

HORIZ. SCALE: 1"= 20'
VERT. SCALE: 1"=5'





NOTE:
THIS PLAN IS FOR SEPTIC SYSTEM DESIGN ONLY. SEE SITE PLAN BY ROBERT L. KOSIE FOR ALL ADDITIONAL SITE PLAN IMPROVEMENTS



NOTES:
1. REINFORCED PRECAST CONCRETE TO HAVE A COMPRESSIVE STRENGTH OF 5000 PSI @ 28 DAYS.
2. PRECAST CONCRETE TANK SHALL MEET OR EXCEED SPECIFICATIONS AS SET BY O.A.C. RULE 3701-29-3-11.
3. CONCRETE JOINT SEALANT CONFORMS TO ASTM C-990.
4. INLET AND DISCHARGE PIPE SEALS CONFORM TO ASTM C-923.
5. EFFLUENT FILTER RETAINS SOLIDS GREATER THAN 1/16" AND CONFORMS TO ASTM C-1227.
6. LABEL TOP OF TANK AS FOLLOWS:
   MACK INDUSTRIES LOGO
   2000 GAL. TANK CAPACITY
   DATE OF MANUFACTURE
   MAXIMUM BURIAL DEPTH OF 2'-0"

STATE APPROVAL PENDING

2000 GALLON SEPTIC TANK		
DRAWN BY: DWH	SCALE: 1/4"=1'-0"	DRAWING NO.: 2000 SEPTIC
DATE: 3-10-07	REV: 1.) 4/12/07 DWH	
REV: 1.) O.D.H. 2007 COMPLIANCE,O.A.C. RULE 3701-29-11		

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MACK INDUSTRIES, INC.
201 COLUMBIA ROAD, VALLEY CITY, OHIO 44280 (216)483-3111

SEPTIC DESIGN DATA:
-Linear Loading Rate =4.3 Gal/Day/Ft
-Infiltration Loading Rate = 0.6 Gal/Day/Ft.Sq'd.
-Field Area Required = 600 Sq.Ft.

-System Length = 360/4.3=84'
-System Width = 4.3/0.6=7.2' = Use 8' (4-2' Wide Trenches)
-Field Area Shown = 680 Sq.Ft.(Primary)
-Perched Seasonal Water Table @ 44"
-Bedrock > 72"
-3 Bedroom House = 360 Gal/Day

NOTE:
OPERATION AND MAINTENANCE OF PROPOSED SEPTIC SYSTEM SHALL BE PER MANUFACTURER'S SPECIFICATIONS.

PROPOSED SEPTIC DISTRIBUTION AREA MUST BE STAKED AND FENCED OFF PRIOR TO ANY SITE DISTURBANCE. ANY DISTURBANCE OR DAMAGE TO THE SEPTIC DISTRIBUTION AREA MAY RESULT IN THE INVALIDATION OF THE DESIGN PLAN.

SEPTIC SYSTEM NOTES:
THE SEPTIC SYSTEM SOIL ABSORPTION AREA SHALL BE STAKED OUT AND ROPED OFF OR FENCED OFF PRIOR TO START OF CONSTRUCTION. NO HEAVY EQUIPMENT SHALL BE OPERATED IN THESE AREAS, NO PARKING OR MATERIAL STORAGE SHALL OCCUR IN THESE AREAS. THESE AREAS SHALL REMAIN UNDISTURBED.

THE SEPTIC SYSTEM SOIL ABSORPTION AREA SHALL BE FREE OF ANY SITE DISTURBANCE. IF ANY DISTURBANCE OR DAMAGE HAS OCCURRED, INSTALLATION SHALL NOT PROCEED AND THE REGISTERED INSTALLER SHALL CONTACT THE OWNER AND THE BOARD OF HEALTH.

PRIOR TO EXCAVATION THE REGISTER INSTALLER SHALL CHECK ALL ELEVATIONS IN THE LAYOUT PLAN RELATIVE TO THE ESTABLISHED BENCHMARK INCLUDING THE SURFACE CONTOUR AND PROPOSED BOTTOM ELEVATION OF EACH TRENCH AND THE FLOW LINE ELEVATION OF THE STS COMPONENTS TO ASSURE PROPER FLOW THROUGH THE SYSTEM.

LEACHING TRENCH MATERIAL SHALL BE PLACED IN A MANNER THAT PREVENTS COMPACTION OF THE INFILTRATIVE SURFACE. OPEN TRENCHES SHALL BE AVOIDED FOR ANY LENGTH OF TIME TO PREVENT IMPACTS FROM SEDIMENTS IN RUNOFF AND WINDBLOWN SILT.

SUITABLE BACK FILL AND COVER MATERIAL SHALL NOT BE COMPACTED AND SHALL ALLOW FOR SETTLING. THE COMPLETE STS AREA SHALL BE PROTECTED FROM EROSION THROUGH SURFACE WATER DIVERSION AND PROVISION OF SUITABLE VEGETATIVE COVER, MULCHING, OR OTHER SPECIFIED MEANS OF PROTECTION.

SOIL MOISTURE CONDITIONS SHALL BE EVALUATED AT THE TIME OF INSTALLATION, AND THE EXCAVATION OR PREPARATION OF THE SOIL INFILTRATION INTERFACE, SUCH AS A TRENCH OR BASAL AREA, SHALL NOT PROCEED WHEN THERE IS A RISK OF SMEARING OR COMPACTION AS EVIDENCED BY A DEFORMABILITY TEST, COMMONLY REFERRED TO AS RIBBONING, OR OTHER MEANS ESTABLISHED BY THE BOARD OF HEALTH.

A BUILDING SEWER SHALL BE WATERTIGHT, HAVE A MINIMUM DIAMETER OF FOUR INCHES AND BE CONSTRUCTED OF DURABLE MATERIAL CONFORMING TO ASTM D 2661 FOR ABS PLASTIC PIPE AND ASTM D 2665 FOR PVC PLASTIC PIPE (TYPE DWV) OR EQUIVALENT. PIPE, FITTINGS AND JOINING MATERIALS SHALL BE CHEMICALLY AND PHYSICALLY COMPATIBLE.

CLEANOUTS SHALL BE REQUIRED IN A BUILDING SEWER AT ANY TURN IN THE PIPE GREATER THAN FORTY-FIVE DEGREES AND AT THE POINT A BUILDING SEWER PIPE EXCEEDS ONE HUNDRED FEET AND AT EVERY ONE HUNDRED FEET INTERVAL THEREAFTER.

CASINGS SHALL BE PROVIDED IN AREAS WHERE A BUILDING SEWER MAY BE SUBJECT TO LOADS WHICH MAY CAUSE DAMAGE.

BASELINE RECORDS AND ANY SOIL ABSORPTION COMPONENT OPERATION AND MAINTENANCE INSTRUCTIONS SHALL BE PROVIDED BY THE INSTALLER TO BOTH THE OWNER AND THE BOARD OF HEALTH AS A CONDITION OF INSTALLATION APPROVAL.

THE STS INSTALLER IS REQUIRED TO CONSULT WITH THE DESIGNER REGARDING ANY INTENDED CHANGES TO THE PLAN.

THE OWNER SHALL BE REQUIRED TO HIRE AN APPROVED SEPATAGE HAULER TO PUMP THE SEPTIC TANK AS REQUIRED BASED UPON FLOWS, SOLID BUILD UP, ETC.

THE OWNER SHALL BE RESPONSIBLE FOR ALL OPERATION AND MAINTENANCE (O&M) REQUIRED FOR THE SEPTIC SYSTEM.

ALL O&M SHALL BE PER MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS FOR THE PARTICULAR SYSTEM COMPONENT.

SEPTIC TANK NOTES

1. SEPTIC TANKS MUST BE STRUCTURALLY SOUND, WATERTIGHT, AND OF PROPER CAPACITY.
2. JOINT SEALANTS / CONNECTIONS SHALL BE WATERTIGHT AND SHALL MEET ASTM C990.
3. INLET AND OUTLET PIPE CONNECTIONS TO THE TANKS MUST BE WATERTIGHT AND MEET ASTM C 923.
4. TANK CAPACITY REQUIREMENTS ARE AS FOLLOWS:
   1-2 BEDROOMS =1000 GALLONS
   3 BEDROOMS =1500 GALLONS (TWO COMPARTMENTS)
   4-5 BEDROOMS =2000 GALLONS (TWO COMPARTMENTS)
   6 OR MORE BEDROOMS =1000 GALLONS PLUS 250 GALLONS PER ADDITIONAL BEDROOM (2 COMPARTMENTS)
5. WHEN USING 2 COMPARTMENT TANKS, THE FIRST COMPARTMENT MUST NOT BE LESS THAN ONE HALF OR MORE THAN TWO THIRDS OF THE TOTAL CAPACITY.
6. WHEN USING TANKS IN A SERIES, THE FIRST TANK, IF OF A DIFFERENT SIZE, SHALL BE THE LARGER TANK.
7. THE INVERT LEVEL OF THE INLET SHALL BE NOT LESS THAN TWO INCHES ABOVE THE LIQUID LEVEL OF THE TANK. A VENTED INLET BAFFLE OR TEE SHALL DIVERT THE INCOMING SEWAGE DOWNWARD PENETRATING AT LEAST SIX INCHES BELOW THE LIQUID LEVEL, BUT SHALL NOT BE GREATER THAN THAT FOR THE OUTLET DEVICE.
8. THE OUTLET SHALL BE FITTED WITH A VENTED TEE OR BAFFLE THAT SHALL EXTEND NOT LESS THAN SIX INCHES ABOVE AND NOT LESS THAN EIGHTEEN INCHES BELOW THE LIQUID LEVEL OF THE TANK, AND SHALL INCLUDE AN EFFLUENT FILTER DEVICE THAT RETAINS SOLIDS GREATER THAN ONE SIXTEENTH OF AN INCH IN SIZE.
9. THE SEPTIC TANK SHALL HAVE A LIQUID DRAWING DEPTH OF NOT LESS THAN FOUR FEET AND THE AIR GAP BETWEEN THE LIQUID LEVEL AND INTERNAL SURFACE OF THE TOP OF THE TANK SHALL BE AT LEAST NINE INCHES.
10. SEPTIC TANK ACCESS OPENINGS SHALL BE LOCATED ABOVE THE INLET AND THE OUTLET OF THE TANK, ALLOWING FOR ADEQUATE SPACE FOR PUMPING, INSPECTION, OR MAINTENANCE. THE COVER OF THE ACCESS RISER SHALL WEIGH A MINIMUM OF 65 POUNDS OR BE SECURED AGAINST UNAUTHORIZED ACCESS.
11. THE TANK SHALL BE INSTALLED WITH A MINIMUM OF TWO WATERTIGHT RISERS EXTENDED TO GRADE OR ABOVE GRADE TO PROVIDE ACCESS TO THE INLET AND THE OUTLET OF THE TANK. THE CONNECTION OF THE RISER TO THE TANK SHALL INCORPORATE JOINT GROOVES OR ADAPTORS TO PREVENT LATERAL MOVEMENT OF THE RISERS. RISER LIDS SHALL PREVENT INFILTRATION OF WATER AND HAVE SECURED COVERS.
12. THE SEPTIC TANK SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS TO ASSURE THE STRUCTURAL INTEGRITY OF THE TANK. THE TANK SHALL BE LEVEL. TO ALLOW FOR EASE OF ACCESS, THE TANK SHALL BE INSTALLED NO DEEPER THAN TWO FEET BELOW GRADE UNLESS THE TERMS OF THE INSTALLATION PERMIT ALLOW FOR GREATER SEPTIC TANK DEPTH AND THE TANK IS DESIGNED TO WITHSTAND THE ADDITIONAL LOAD.

REV. No.		DATE	BY	CH'K'D

STATE OF OHIO
DUSTIN R. KEENEY
E-65515
Registered
PROFESSIONAL ENGINEER

DATE: 12/05/13
SCALE: HOR. 1"=20'
VERT. 1"=5'
FOLDER: DWG/Site Plans
FILENAME: Septic Site Plan
TAB: Layout & Details
DRAWN: DRW

10725 PROUTY ROAD
MARGARET SCARL

CITY OF PAINESVILLE-LAKE COUNTY-OHIO

polaris Engineering & Surveying

POLARIS ENGINEERING & SURVEYING, INC.
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www.polaris-es.com

SEPTIC SITE PLAN & DETAILS

CONTRACT No. 13160

SHEET	OF
2	2