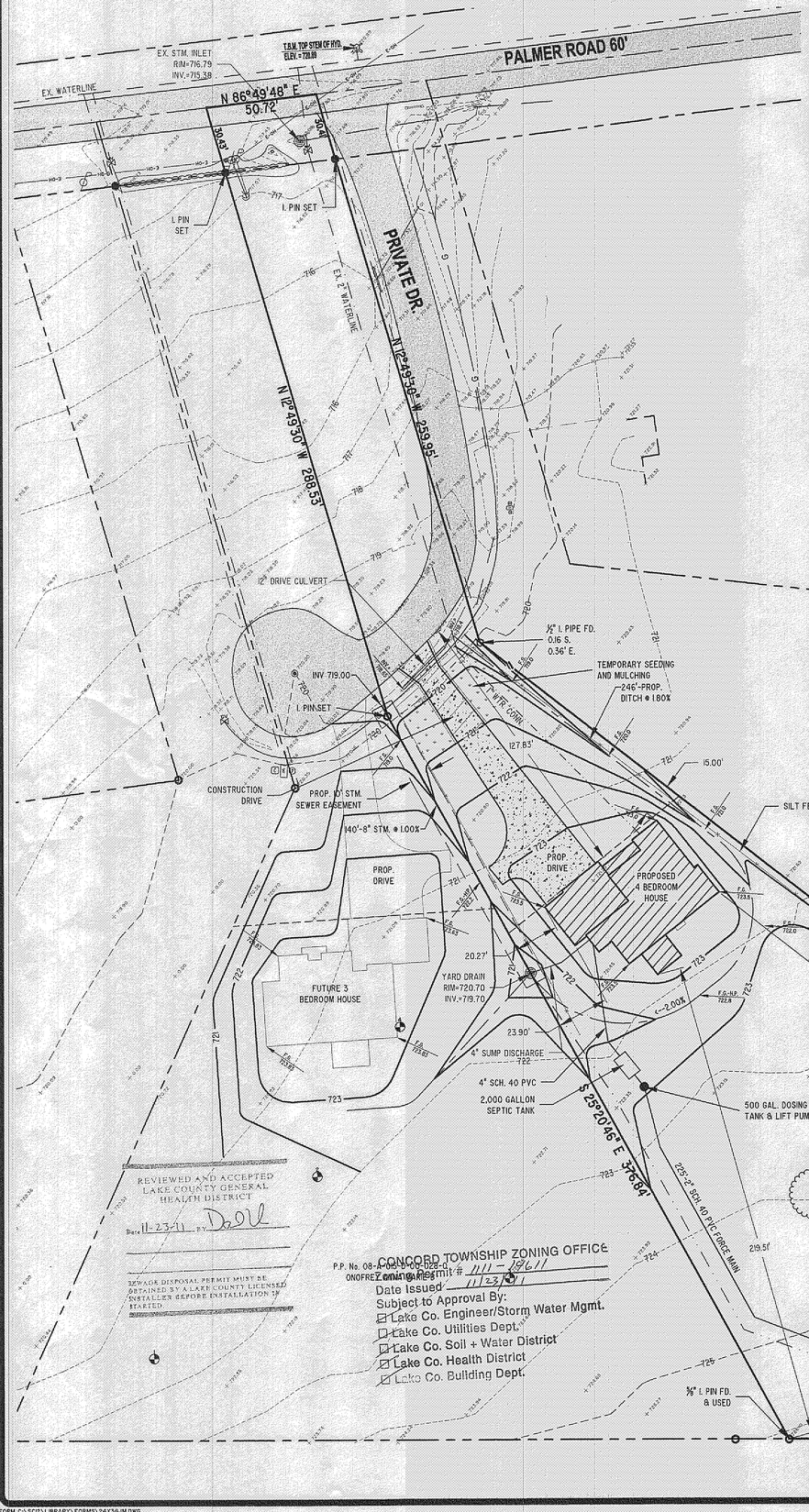
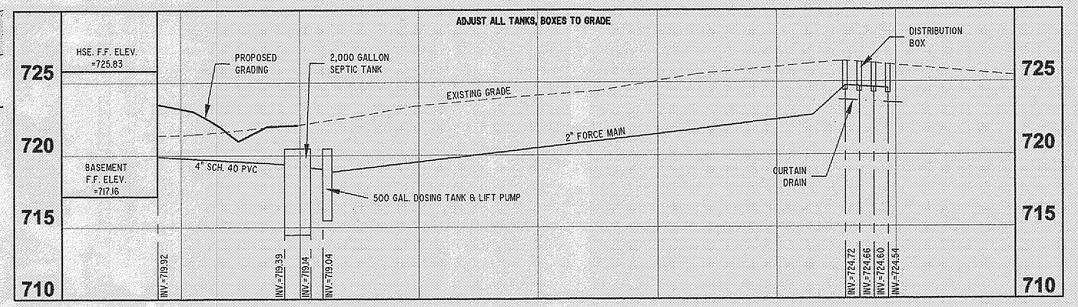
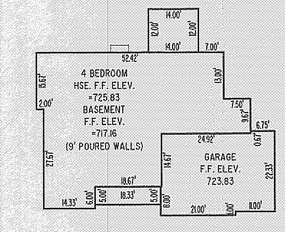
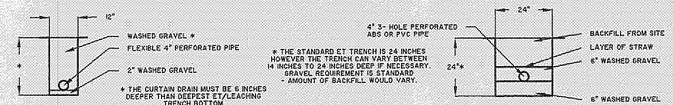




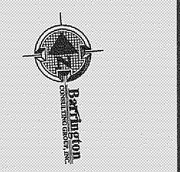


TYPICAL CURTAIN DRAIN CROSS SECTION



TYPICAL LEACHING TRENCH CROSS SECTION

GRAPHIC SCALE
(IN FEET)
1 Inch = 30 ft.



GENERAL NOTES:

1. BENCHMARK - TOP STEM OF EXISTING FIRE HYDRANT LOCATED AS SHOWN IN SITE PLAN, ELEVATION = 720.89.
2. DRIVEWAY APRON TO BE 6" THICK CONCRETE.
3. ALL DOWNSPOUTS TO BE OUTLETTED TO SPLASH BLOCKS.
4. CONTRACTOR RESPONSIBLE FOR CONTACTING THE OHIO UTILITY PROTECTION SERVICE (1.800.362.2764) AND ALL UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.
5. THE LOCATION BOTH HORIZONTAL AND VERTICAL OF EXISTING UNDERGROUND UTILITIES SHOWN HEREON, HAVE BEEN OBTAINED BY A DILIGENT AND COMPREHENSIVE SEARCH OF AVAILABLE RECORDS. VERIFICATION BY FIELD OBSERVATION HAS BEEN CONDUCTED WHERE PRACTICAL, HOWEVER, BARRINGTON CONSULTING GROUP, INC. DOES NOT GUARANTEE THE COMPLETENESS, NOR ACCURACY THEREOF.
6. CONTRACTOR SHALL VERIFY ELEVATIONS OF LATERAL INVERTS IN THE FIELD PRIOR TO FOUNDATION EXCAVATION.
7. SUMP PUMP REQUIRED FOR BASEMENT.

CERTIFICATION :

"I THE UNDERSIGNED HEREBY CERTIFIES THAT THIS TOPOGRAPHY INDICATED BY 1 FOOT CONTOURS AND ELEVATION SHOWN HEREON REPRESENTS AN ACTUAL SURVEY MADE BY ME ON THE 18th DAY OF OCTOBER, 2011 AND THE ELEVATIONS WERE TAKEN AT AN APPROPRIATE INTERVAL AND AS OF THAT DAY THEY EXISTED AS INDICATED HEREON.

"I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF"

STATE OF OHIO
DAVID W. NOVAK
S-7507
REGISTERED
SURVEYOR

DAVID W. NOVAK, P.S. No. 7507

THIS PARTICULAR PROJECT WAS DESIGNED FOR A FOUR BEDROOM HOUSE PRODUCING AN AVERAGE FLOW OF 216 GALLONS PER DAY AND HAVING RESIDENTIAL STRENGTH WASTEWATER OF 140 MG/L OF BOD(5). THE SYSTEM DESIGN IS CAPABLE OF ACCOMMODATING PEAK FLOW OF UP TO 480 GALLONS PER DAY AND WASTEWATER STRENGTHS NOT TO EXCEED 250 MG/L OF BOD(5) FOR SHORT PERIODS OF TIME.

SEPTIC SYSTEM NOTES:

1. ALL ASPECTS OF THE SEPTIC SYSTEM SHALL ADHERE TO THE REGULATIONS OF THE BOARD OF HEALTH OF THE LAKE COUNTY GENERAL HEALTH DISTRICT PART (CHAPTER) 29 "SEWAGE TREATMENT RULES"
2. THE FULL 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.
3. THE SYSTEM MUST BE INSTALLED WHEN THE SOILS ARE DRY. THE INSTALLATION OF A SYSTEM IN WET CONDITIONS CAN CAUSE SOIL COMPACTION AND SMEARING WHICH LEADS TO SYSTEM FAILURE.
4. PRIOR TO EXCAVATION, THE REGISTERED INSTALLER SHALL CHECK ALL ELEVATIONS IN THE LAYOUT PLAN RELATIVE TO THE ESTABLISHED BENCHMARK.
5. THE INSTALLER MUST BE REGISTERED AND APPROVED PER O.A.C. 3701-29-04.1.
6. THE SYSTEM INSTALLER SHALL CONSULT WITH THE DESIGNER PRIOR TO ANY INTENDED CHANGES TO THE SYSTEM .
7. THE SYSTEM INSTALLER SHALL COORDINATE WITH THE DESIGNER IN ORDER TO PROVIDE AN ACCURATE AS-BUILT.
8. THE PROPOSED SEPTIC AND DUPLICATION AREA SHALL BE ROPED OFF PRIOR TO THE START OF ANY CONSTRUCTION TO PREVENT DISTURBANCE TO THE AREAS.
9. ALL ELECTRICAL COMPONENTS AND INSTALLATION MUST BE NEC COMPLIANT.
10. THE FORCE MAIN SHALL BE INSTALLED BELOW THE FROST LINE OR INSTALLED WITH PROPER SLOPE BACK TO THE DOSING TANK IN ORDER TO DRAIN ALL WATER OUT OF IT AFTER THE PUMP SHUTS OFF.

SEPTIC SYSTEM CALCULATIONS:

4 BEDROOM HOUSE X 120 GALLONS PER DAY = 480 GPD
BASED ON SOIL REPORT PREPARED BY FLOYD McCLEARY & RAY BURNS ON OCTOBER 12, 2011,
LANDSCAPE LINEAR LOADING RATE = 4.3 GPD/FT
BASAL LOADING RATE = 0.80 GPD/SF (<30 BOD)

TRENCH LENGTH:
480 GPD/4.3 GPD/FT = 111.83 FT (USE 112 FT)

MINIMUM BASAL AREA:
480 GPD/0.8 GPD/SF = 600 SF
USING A 24" WIDE TRENCH, 600 SF/2 FT = 300 FT TOTAL LENGTH REQUIRED

SUMMARY:
3 - 112 FT LINES @ 6' C-C REQUIRED, 4 - 112 FT LINES @ 6' C-C PROVIDED
ACTUAL LLLR = 4.30 GDP/FT
ACTUAL BASAL LOADING RATE = 0.54 GPD/SF

Stormwater Management Plan
As shown and/or noted
JAMES R. GILLS, P.E.
County Drainage Engineer
By _____ Date 11/28/11

REVISIONS	BY
11/17/11	TDR

Barrington
CONSULTING GROUP, INC.
9114 TYLER BLVD., MENTOR, OHIO 44060
PHONE 440.205.1260 FAX 440.205.1262
www.BarringtonCGI.com

LITTLE MOUNTAIN HOMES, INC.
RICK COLWELL
1447 NORTH RIDGE RD.
PAINESVILLE, OHIO 44077
PH:440.357.8400/FAX:440.357.1624

SITE PLAN

P.P. No. 08-A-015-D-00-027-0 PALMER ROAD
CONCORD TWP., OHIO 44077

GARNER RESIDENCE

DRAWN WSO
CHECKED DWN
DATE NOV. 9, 2011
SCALE 1" = 30'
JOB NO. 11096-003
SHEET 1/2
OF SHEETS

11096-003

FORM: C:\SCIZ\LIBRARY\FORMS\24X36JM.DWG