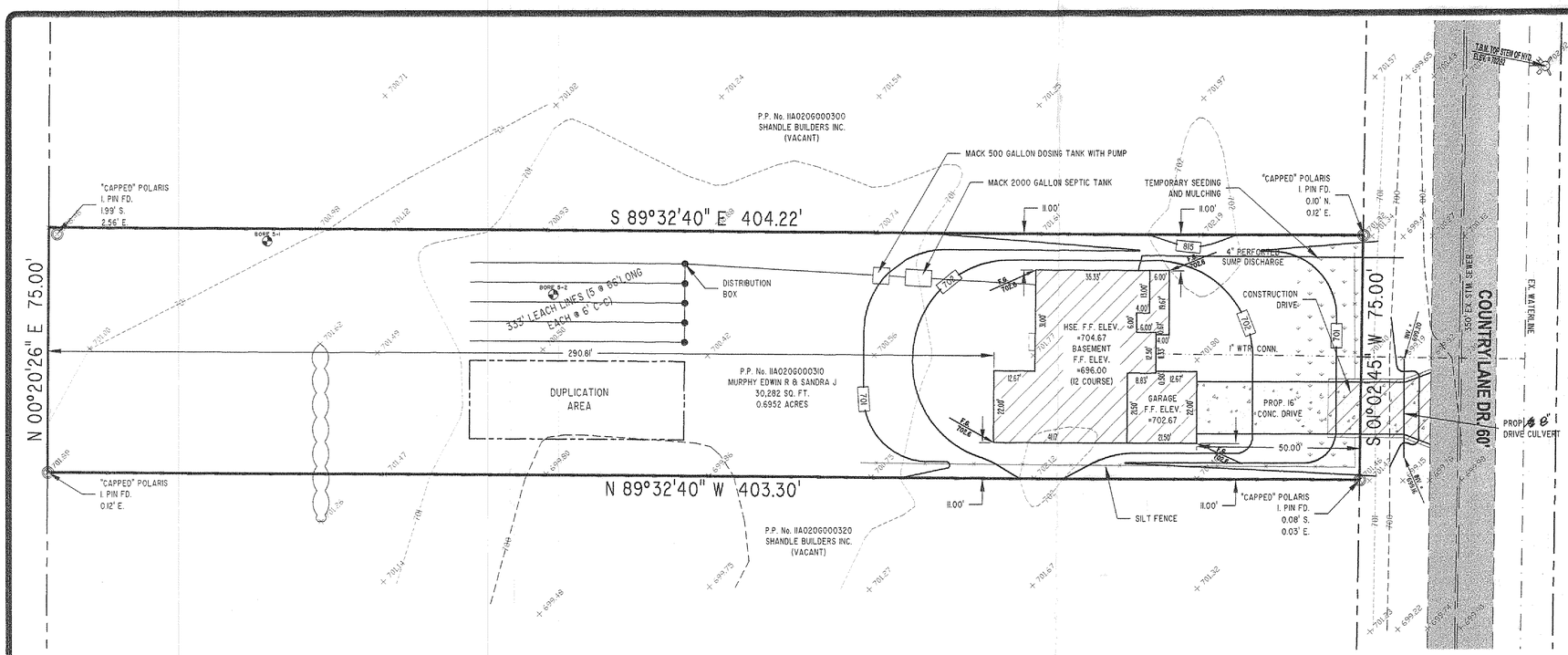


SEPTIC SYSTEM NOTES:

1. 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.
2. THE INSTALLER MUST BE REGISTERED AND APPROVED PER O.A.C. 3701-29-04.1.
3. ALL ELECTRICAL WORK PERFORMED MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE REQUIREMENTS.
4. THE SYSTEM INSTALLER SHALL CONSULT WITH THE DESIGNER PRIOR TO ANY INTENDED CHANGES TO THE SYSTEM .
5. THE SYSTEM INSTALLER SHALL COORDINATE WITH THE DESIGNER IN ORDER TO PROVIDE AN ACCURATE AS-BUILT.
6. THE PROPOSED LEACH FIELD AREA AND DUPLICATION AREA SHALL BE ROPED OFF PRIOR TO THE START OF ANY CONSTRUCTION TO PREVENT DISTURBANCE TO THE AREAS.
7. ALL ABS PIPE TO MEET ASTM F 628
   ALL SDR-35 PIPE TO MEET ASTM D 3034
   ALL PERFORATED DRAIN PIPE TO MEET ASTM F 810
8. WASHED GRAVEL SHALL CONFORM TO AASHTO M 43 AS SET FORTH BY O.A.C. RULE 3701-29-13.1 (B)(2).
9. THE SPLITTER AND DISTRIBUTION BOXES SHALL BE MANUFACTURED BY TUF-TITE.
10. THE EFFLUENT FILTER IN THE SEPTIC TANK SHALL BE MANUFACTURED BY ZOELLER AND CONFORM TO ASTM C-1227.
11. INLET AND OUTLET CONNECTIONS TO THE SEPTIC TANK SHALL MEET ASTM C 923.
12. DOWNSPOUTS TO BE OUTLETTED TO SPASHBLOCKS AND FLOW TO BE DIRECTED AWAY FROM THE LEACH FIELD.

TREATMENT AREA SIZING

1. NUMBER OF BEDROOMS – 3
2. NUMBER OF BEDROOMS TIMES 120 GALLONS PER DAY
3 X 120 = 360 GALLONS PER DAY
3. PICK LINEAR LOADING RATE FROM TYLER TABLE USING SOIL EVALUATIONS – 5.5 GAL/DAY/LF
4. PICK A BASAL SOIL LOADING RATE FROM THE TYLER TABLE USING THE SOIL EVALUATION – 0.6 GAL/DAY/SF

A. CALCULATE THE MINIMUM LENGTH OF THE SYSTEM:
360 GPD/5.5 GPD/LF. = 65 FT

B. CALCULATE THE TOTAL MINIMUM AREA REQUIRED:
360 GPD/0.6 GPD/SF = 600 SF

C. CALCULATE THE MINIMUM WIDTH:
5.5/0.6 = 9.16, 600 SF/66 FT = 9.09 USE 10 FT

D. CALCULATE THE MINIMUM AMOUNT OF TRENCH NEEDED:
1. CHOOSE A TRENCH WIDTH BETWEEN 1FT TO 2FT
USING 2FT,
10FT/2FT = 5
2 FT X 66 FT = 132 SF X 5 = 660 SF>600 SF
ACTUAL BASAL LOADING RATE,
360 GPD/660 SF = 0.55 GPD/SF

GENERAL NOTES:

1. BENCHMARK - TOP STEM OF EXISTING FIRE HYDRANT LOCATED AS SHOWN IN SITE PLAN, ELEVATION = 702.92.
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.

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 17th DAY OF JUNE, 2008 AND THE ELEVATIONS WERE TAKEN AT AN APPROPRIATE INTERVAL AND AS OF THAT DAY THEY EXISTED AS INDICATED HEREON.

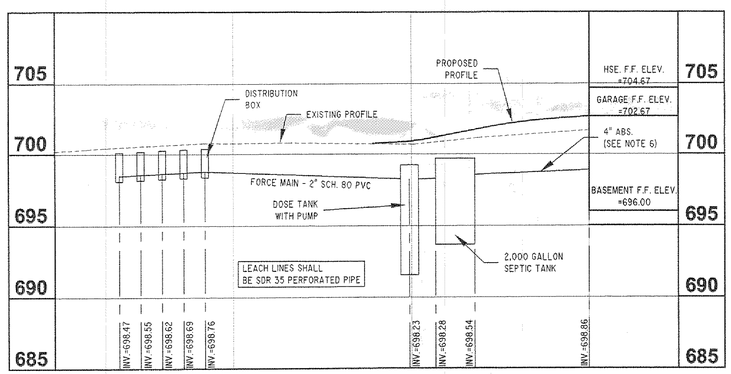
"I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF"

12/30/2009
DAVID W. NOVAK, P.S. No. 7507

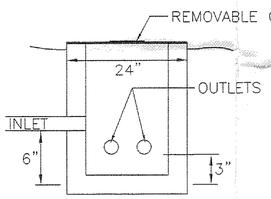
APPROVED
09100006 — 1/29/10
PERMIT # — DATE
Painesville Township Zoning Inspector

Stormwater Management Plan
Approved as shown and/or noted
JAMES A. SILLS, P.E.
County Engineer
By L.S. Date 2/2/10

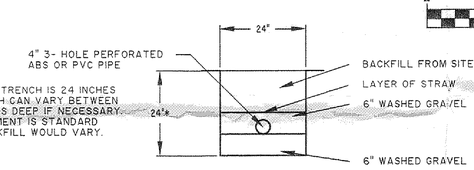
REVISIONS	BY
8" DRIVE CULVERT 2/2/10	L.S. DWN



DISTRIBUTION BOX SECTION



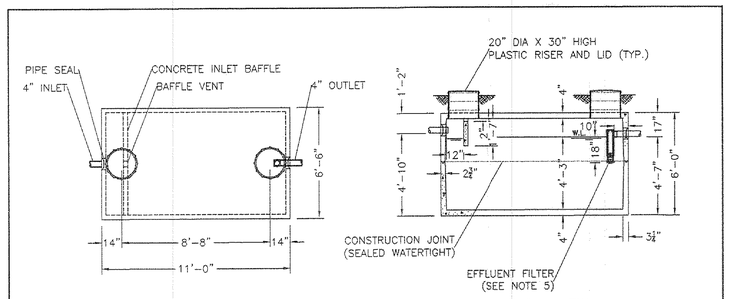
* THE STANDARD ET TRENCH IS 24 INCHES HOWEVER THE TRENCH CAN VARY BETWEEN 14 INCHES TO 24 INCHES DEEP IF NECESSARY. GRAVEL REQUIREMENT IS STANDARD - AMOUNT OF BACKFILL WOULD VARY.



TYPICAL LEACHING TRENCH CROSS SECTION

GRAPHIC SCALE

20 0 10 20 40
(IN FEET)
1 inch = 20 ft.



NOTES:

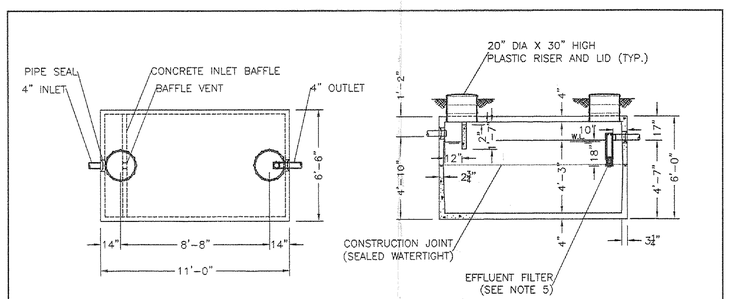
1. REINFORCED PRECAST CONCRETE TO HAVE A COMPRESSIVE STRENGTH OF 5000 PSI @ 28 DAYS.
2. PRECAST CONCRETE TANK SHALL MEET OR EXCEED SPECIFICATIONS AS SET BY O.A.C. RULE 3701-293-11.
3. CONCRETE JOINT SEALANT CONFORMS TO ASTM C-990.
4. TANK SEALS CONFORM TO ASTM C-923.
5. EFFLUENT FILTER RETAINS SOLIDS GREATER THAN 1/16" AND CONFORMS TO ASTM C-1227.
6. STAMP OR LABEL TOP OF TANK AS FOLLOWS:
   MACK INDUSTRIES LOGO
   2000 GAL. TANK CAPACITY
   DATE OF MANUFACTURE

STATE APPROVAL PENDING

2000 GALLON SEPTIC TANK		
O.D.H. 2007 COMPLIANCE, OAC RULE 3701-29-11		
DRAWN BY: CJ	SCALE: 1/4"=1'-0"	DRAWING NO.:
DATE: 4/5/07	REV:	2000GAL

MACK INDUSTRIES, INC.
201 COLUMBIA ROAD, VALLEY CITY, OHIO 44280 (330) 483-3111

THIS DRAWING IS THE PROPERTY OF MACK INDUSTRIES, INC., AND IT OR THE TECHNOLOGY CONTAINED HEREIN MAY NOT BE REPRODUCED NOR USED EXCEPT AS ORIGINALLY INTENDED WITHOUT THE EXPRESSED CONSENT OF MACK INDUSTRIES, INC.



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 3701-293-11.
3. CONCRETE JOINT SEALANT CONFORMS TO ASTM C-990.
4. TANK SEALS CONFORM TO ASTM C-923.
5. EFFLUENT FILTER RETAINS SOLIDS GREATER THAN 1/16" AND CONFORMS TO ASTM C-1227.
6. STAMP OR LABEL TOP OF TANK AS FOLLOWS:
   MACK INDUSTRIES LOGO
   2000 GAL. TANK CAPACITY
   DATE OF MANUFACTURE

STATE APPROVAL PENDING

2000 GALLON SEPTIC TANK		
O.D.H. 2007 COMPLIANCE, OAC RULE 3701-29-11		
DRAWN BY: CJ	SCALE: 1/4"=1'-0"	DRAWING NO.:
DATE: 4/5/07	REV:	2000GAL

MACK INDUSTRIES, INC.
201 COLUMBIA ROAD, VALLEY CITY, OHIO 44280 (330) 483-3111

THIS DRAWING IS THE PROPERTY OF MACK INDUSTRIES, INC., AND IT OR THE TECHNOLOGY CONTAINED HEREIN MAY NOT BE REPRODUCED NOR USED EXCEPT AS ORIGINALLY INTENDED WITHOUT THE EXPRESSED CONSENT OF MACK INDUSTRIES, INC.

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.

STREETS DIRECTLY ADJACENT TO THE CONSTRUCTION ENTRANCES AND RECEIVING TRAFFIC FROM THE DEVELOPMENT AREA, SHALL BE CLEANED DAILY TO REMOVE SEDIMENT TRACKED OFF-SITE. IF APPLICABLE, THE CATCH BASINS ON THESE STREETS NEAREST TO THE CONSTRUCTION ENTRANCES SHALL BE CLEANED WEEKLY.

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 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.

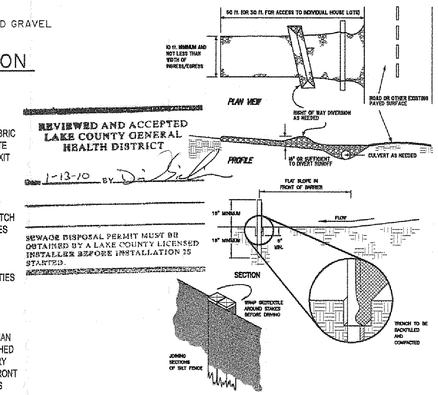
STABILIZATION OF CRITICAL AREAS WITHIN FIFTY (50) FEET OF ANY STREAM OR WETLAND SHALL BE COMPLETE WITHIN TWO (2) DAYS OF THE DISTURBANCE IF THE SITE IS TO REMAIN INACTIVE FOR LONGER THAN FOURTEEN (14) DAYS.

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 THIS TIME.

NOTE:
ALL EROSION AND SEDIMENT CONTROL SPECIFICATIONS, APPLICATIONS, AND TIMETABLES ARE BASED OF 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 21, 1999.

THE SPECIFIED EROSION AND SEDIMENT CONTROL STANDARDS ARE 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./1000 FT.	PER AC.
MARCH 1 TO AUGUST 15	OATS	3	4 BUSHEL
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
AUGUST 16 TO NOVEMBER 1	RYE	3	2 BUSHEL
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	WHEAT	3	2 BUSHEL
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
NOVEMBER 1 TO SPRING SEEDING	USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING.		

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSITUTED.

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

ED MURPHY
1581 TROTTER LANE
PAINESVILLE, OHIO 44077
440-479-0234

SITE PLAN
PARCEL F COUNTRY LANE
PAINESVILLE, OHIO 44077
MURPHY RESEDENCE

DRAWN BRL
CHECKED DWN
DATE DEC. 12, 2009
SCALE 1"= 20'
JOB NO. 09095
SHEET 1 OF 1 SHEETS

09095

FORM C:\SC12\LIBRARY\FORMS\24X36-M.DWG