

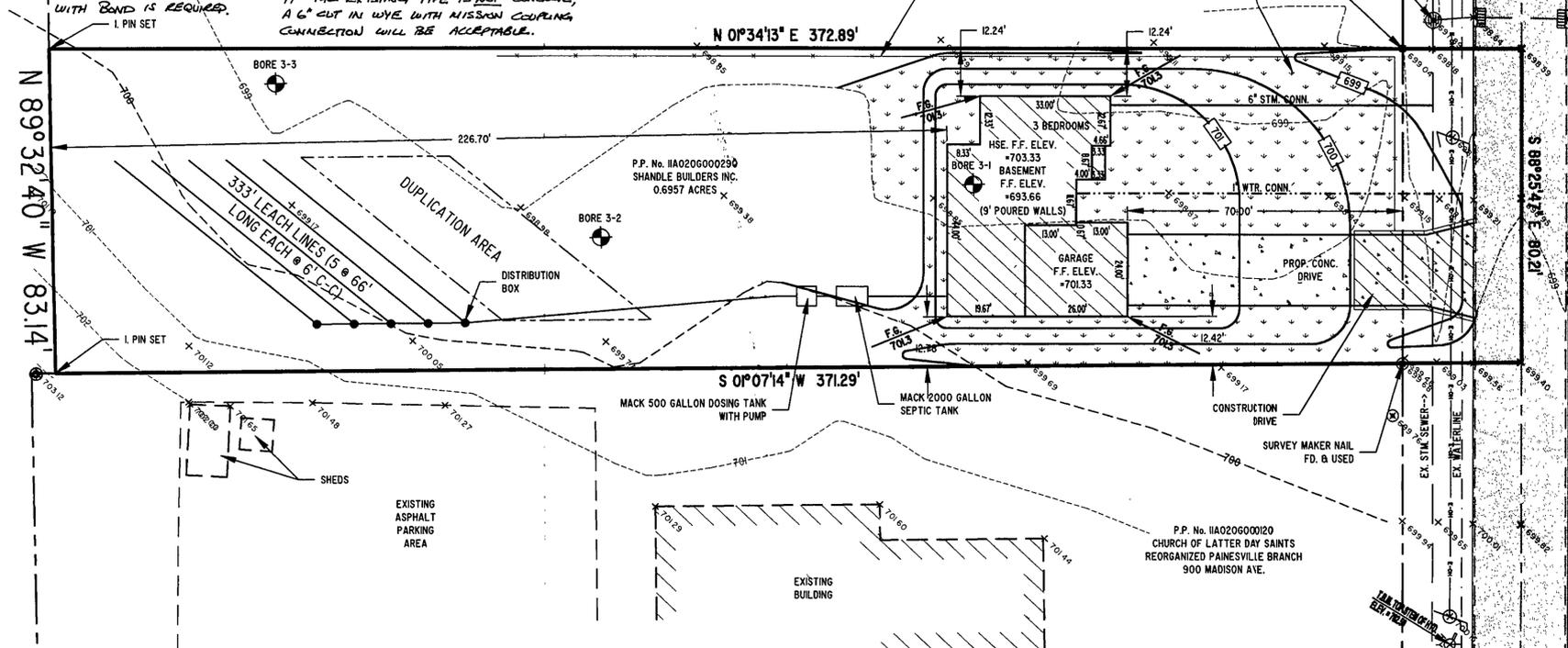
Stormwater Management Plan  
Approved as shown and/or noted  
JAMES R. GILLS, P.E.  
County Drainage Engineer  
By: J.S. Date: 7/21/08

CONTRACTOR SHALL VERIFY SIZE OF EXISTING STORM SEWER PRIOR TO TIE-IN. IF EXISTING STORM SEWER IS CONCRETE PIPE, CONTRACTOR SHALL CORE A 6" HOLE AND INSTALL A 6" SADDLE CONNECTION. BREAKING AND CHIPPING WILL NOT BE ALLOWED. IF THE EXISTING PIPE IS NOT CONCRETE, A 6" CUT IN WYE WITH MISISON COUPLING CONNECTION WILL BE ACCEPTABLE.

P.P. No. 11A0206000280  
SHANDLE BUILDERS INC.  
(VACANT)

P.P. No. 11A0206000290  
SHANDLE BUILDERS INC.  
0.6957 ACRES ±

P.P. No. 11A0206000120  
CHURCH OF LATTER DAY SAINTS  
REORGANIZED PAINESVILLE BRANCH  
900 MADISON AVE.



**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\"/>

**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 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.

**GENERAL NOTES:**

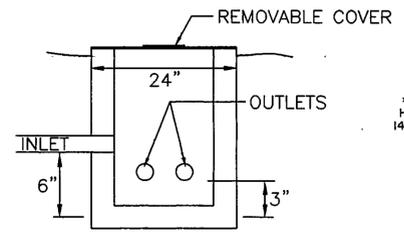
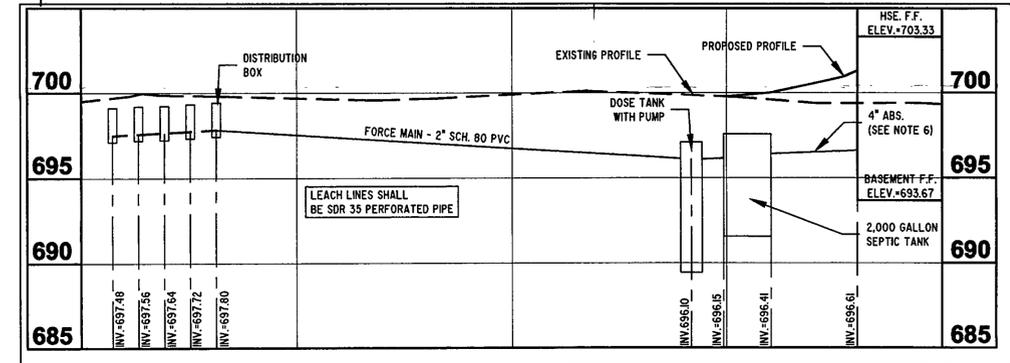
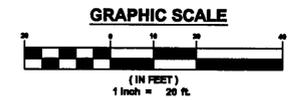
- BENCHMARK - TOP STEM OF EXISTING FIRE HYDRANT LOCATED AS SHOWN IN SITE PLAN, ELEVATION = 702.50.
- DRIVEWAY APRON TO BE 6\"/>

**CERTIFICATION:**

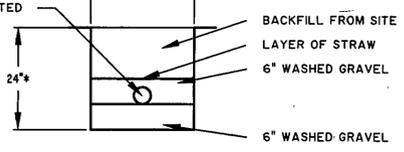
I THE UNDERSIGNED HEREBY CERTIFIES THAT THIS TOPOGRAPHY INDICATED BY 1 FOOT CONTOURS AND ELEVATION SHOWN HEREON REPRESENTS AN ACTUAL SURVEY MADE BY ME ON THE 17TH DAY OF JUNE, 2008 AND THE ELEVATIONS WERE TAKEN AT AN APPROPRIATE INTERVAL AND AS OF THAT DAY THEY EXISTED AS INDICATED HEREON.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.  
DAVID W. NOVAK, P.S. No. 7507  
DATE: 7/14/2008

APPROVED  
Painesville Township  
Zoning Department  
7/15/08



\* THE STANDARD 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

**SEPTIC SYSTEM NOTES:**

- 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.
- THE INSTALLER MUST BE REGISTERED AND APPROVED PER O.A.C. 3701-29-04.1.
- ALL ELECTRICAL WORK PERFORMED MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE REQUIREMENTS.
- THE SYSTEM INSTALLER SHALL CONSULT WITH THE DESIGNER PRIOR TO ANY INTENDED CHANGES TO THE SYSTEM.
- THE SYSTEM INSTALLER SHALL COORDINATE WITH THE DESIGNER IN ORDER TO PROVIDE AN ACCURATE AS-BUILT.
- 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.
- 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
- WASHED GRAVEL SHALL CONFORM TO AASHTO M 43 AS SET FORTH BY O.A.C. RULE 3701-29-10.1 (B)(2).
- PICK LINEAR LOADING RATE FROM TYLER TABLE USING SOIL EVALUATIONS - 5.5 GAL/DAY/LF
- PICK A BASAL SOIL LOADING RATE FROM THE TYLER TABLE USING THE SOIL EVALUATION - 0.8 GAL/DAY/SF
- THE EFFLUENT FILTER IN THE SEPTIC TANK SHALL BE MANUFACTURED BY ZOELLER AND CONFORM TO ASTM C-1227.
- INLET AND OUTLET CONNECTIONS TO THE SEPTIC TANK SHALL MEET ASTM C 923.
- DOWNSPOUTS TO BE OUTLETTED TO SPASHBLOCKS AND FLOW TO BE DIRECTED AWAY FROM THE LEACH FIELD.

**TREATMENT AREA SIZING**

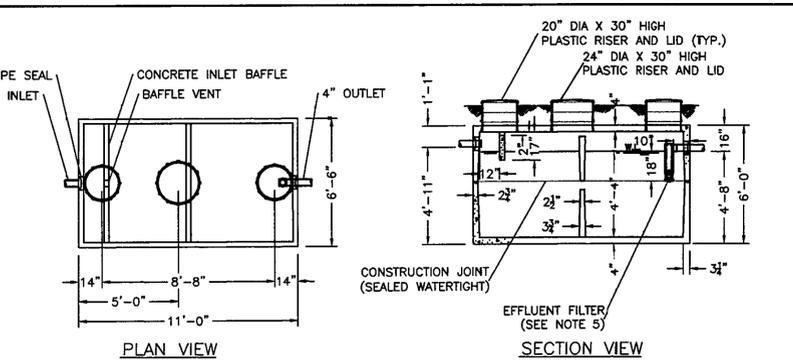
- NUMBER OF BEDROOMS - 3
  - NUMBER OF BEDROOMS TIMES 120 GALLONS PER DAY 3 X 120 = 360 GALLONS PER DAY
  - PICK LINEAR LOADING RATE FROM TYLER TABLE USING SOIL EVALUATIONS - 5.5 GAL/DAY/LF
  - PICK A BASAL SOIL LOADING RATE FROM THE TYLER TABLE USING THE SOIL EVALUATION - 0.8 GAL/DAY/SF
- A. CALCULATE THE MINIMUM LENGTH OF THE SYSTEM:**  
360 GPD/5.5 GPD/LF = 65 FT
- B. CALCULATE THE TOTAL MINIMUM AREA REQUIRED:**  
360 GPD/0.8 GPD/SF = 450 SF
- C. CALCULATE THE MINIMUM WIDTH:**  
5.5/0.8 = 6.875, 600 SF/6.875 FT = 87.28 USE 10 FT
- D. CALCULATE THE MINIMUM WIDTH OF TRENCH NEEDED:**  
1. CHOOSE A TRENCH WIDTH BETWEEN 1FT TO 2FT USING 2 FT, 18\"/>

REVIEWED AND ACCEPTED  
LAKE COUNTY CHEMICAL HEALTH DISTRICT  
7/15/08

SEWAGE DISPOSAL PERMIT MUST BE OBTAINED BY A LAKE COUNTY LICENSED PROFESSIONAL ENGINEER BEFORE INSTALLATION IS STARTED.

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.
AUGUST 16 TO NOVEMBER 1	RYE	3	2 BUSHEL
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	WHEAT	3	2 BUSHEL
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.

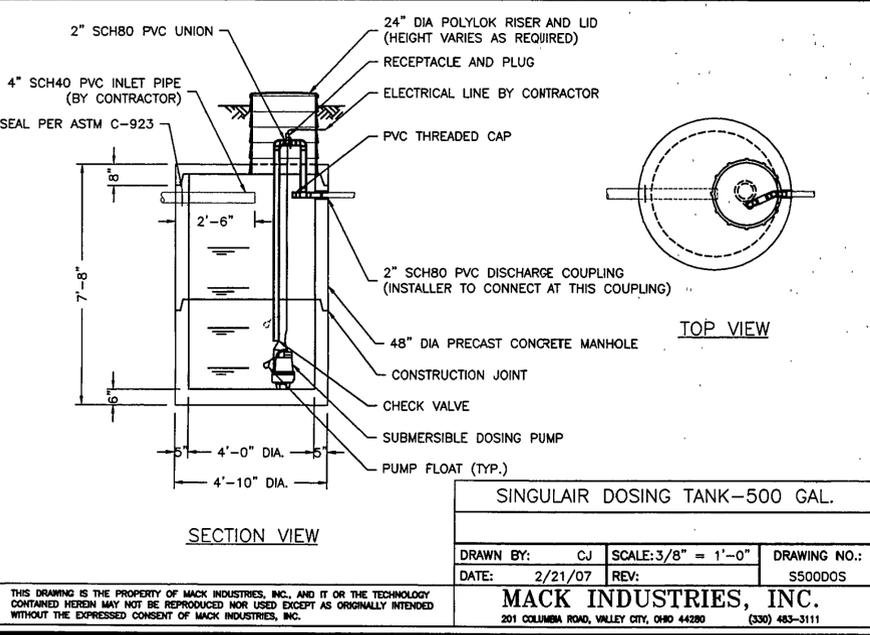
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.



**NOTES:**

- REINFORCED PRECAST CONCRETE TO HAVE A COMPRESSIVE STRENGTH OF 5000 PSI @ 28 DAYS.
- PRECAST CONCRETE TANK SHALL MEET OR EXCEED SPECIFICATIONS AS SET BY O.A.C. RULE 3701-29-11.
- CONCRETE JOINT SEALANT CONFORMS TO ASTM C-990.
- TANK SEALS CONFORM TO ASTM C-923.
- EFFLUENT FILTER RETAINS SOLIDS GREATER THAN 1/16\"/>

STATE APPROVAL PENDING  
DUAL COMPARTMENT 2000 GALLON SEPTIC TANK  
O.D.H. 2007 COMPLIANCE, OAC RULE 3701-29-11  
DRAWN BY: CJ SCALE: 1/4\"/>



SINGLAIR DOSING TANK-500 GAL.  
DRAWN BY: CJ SCALE: 3/8\"/>

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MACK INDUSTRIES, INC.  
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REVISIONS	BY
REVISED ESTIMATE JUNE 30, 2008	WSO
REVISED 927C JULY 9, 2008	TDR
REVISED 927C JULY 14, 2008	TDR

**Barrington CONSULTING GROUP, INC.**  
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www.BarringtonCGI.com

**McCULLOUGH BUILDERS & DEVELOPERS**  
RICK McCULLOUGH  
12 PUBLIC SQUARE #181  
WILLOUGHBY, OHIO 44094  
440-527-8113

**SITE PLAN**  
P.P. No. 11A0206000290  
PAINESVILLE TWP., OHIO 44077

DRAWN BY: WSO  
CHECKED BY: DWN  
DATE: JUNE 25, 2008  
SCALE: 1\"/>