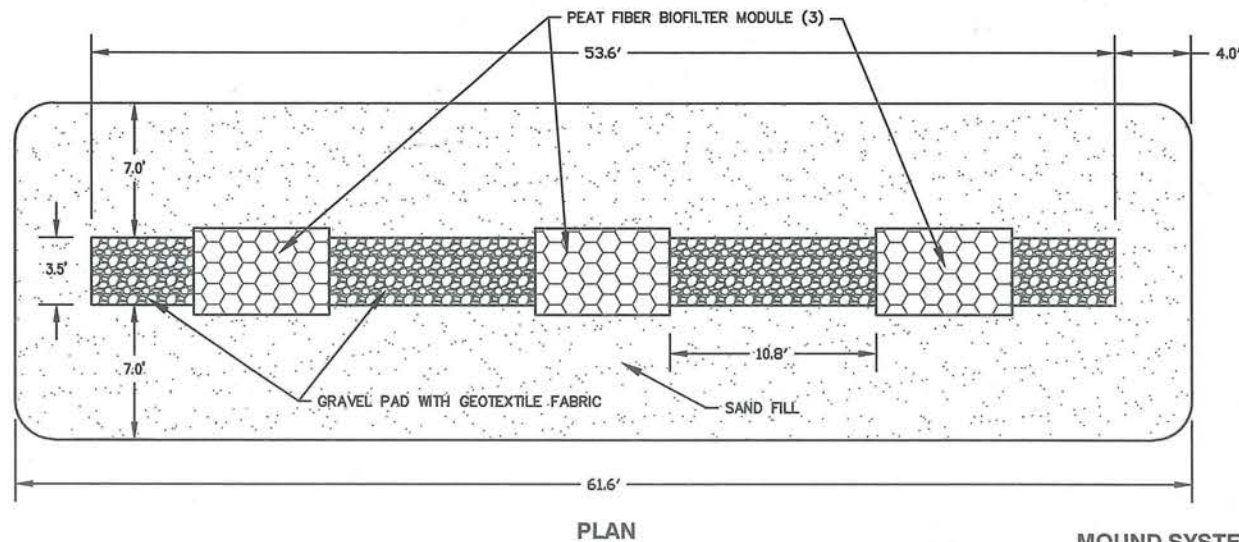
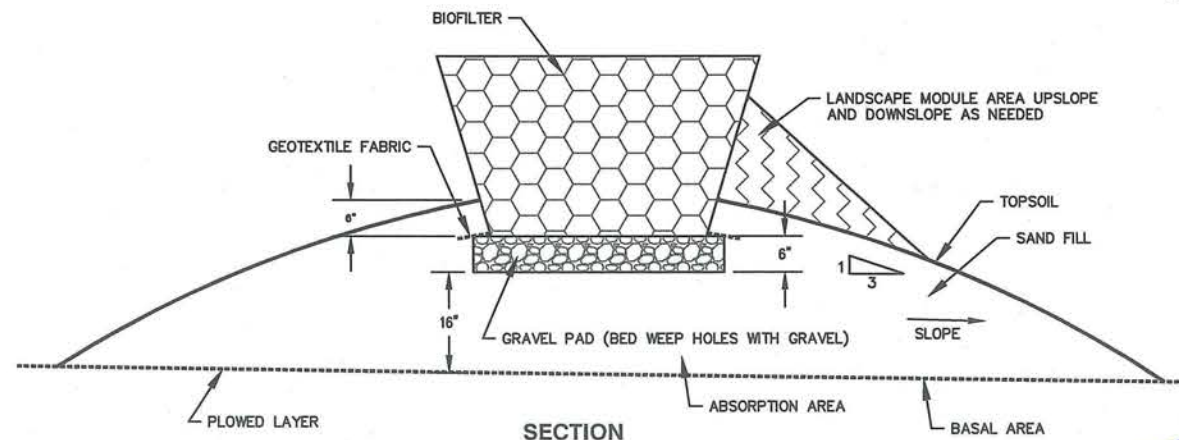


SEPTIC SYSTEM SITE PLAN



PLAN

MOUND SYSTEM DETAIL
NOT TO SCALE



SECTION

NOTES:

1. GEOTEXTILE FABRIC SHALL BE PLACED AT THE INTERFACE BETWEEN THE SAND FILL AND TOPSOIL.
2. THE LAYER OF TOPSOIL IS TO BE A MINIMUM OF SIX INCHES OVER ENTIRE MOUND SYSTEM AND LANDSCAPED AS NECESSARY.
3. INSTALLATION TO BE DONE AS REQUIRED BY THE SYSTEM MANUFACTURER.

NOTES:

1. SEWER DOSING PUMP SHALL BE AN ENGINEERED DEMAND DOSED PUMP PACKAGE AND SHALL INCLUDE PUMP, FLOAT SWITCHES ASSEMBLY, DISCHARGE ASSEMBLY, DISTRIBUTION VALVE AND PUMP CONTROL PANEL WITH HIGH WATER ALARM. PUMP PACKAGE SHALL INCLUDE A PUMP CAPABLE OF PUMPING 20 GPM AT 30 FT. TDH. USE LIBERTY PUMP MODEL 280 OR APPROVED EQUAL.
2. EXISTING ELECTRIC SERVICE IS LOCATED ON EAST END OF BUILDING. PUMP IS TO BE SINGLE PHASE, 240 VOLT POWER. ELECTRICAL TO CONTROLS IS TO BE UNDERGROUND.
3. PLACE SHUTOFF VALVE AND CHECK VALVE IN PUMP TANK, ACCESSIBLE FROM THE SURFACE.
4. DISPERSAL THROUGH MOUND SYSTEM SHALL BE BY PROGRAMMABLE DOSING TIMER. DOSING TO BE AS RECOMMENDED BY SYSTEM MANUFACTURER.
5. SAND SHALL CONFORM TO ASTM C33 OR AS REQUIRED BY MANUFACTURER.
6. ALL PERMITS REQUIRED FOR CONSTRUCTION ARE TO BE OBTAINED AND PAID FOR BY THE CONTRACTOR.

DESIGN NOTES:

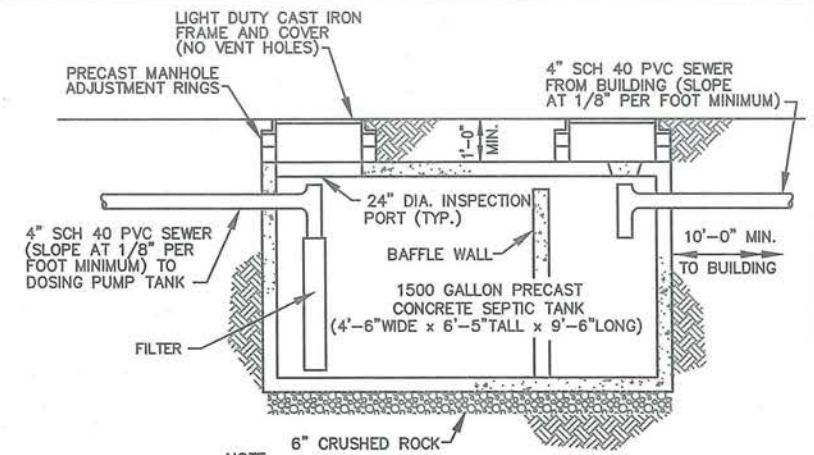
MAINTENANCE BUILDING/OFFICE
15 EMPLOYEES AT 25 GPD EACH
MAXIMUM TOTAL FLOW PER DAY= 375 GALLONS

ONE 1500 GALLON SEPTIC TANK= 1500 GALLONS
375 GALLONS PER DAY= 4 DAYS = 96 HOURS
MINIMUM DETENTION TIME

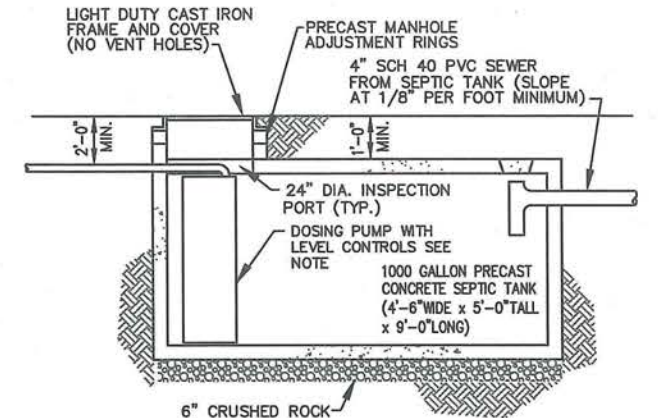
INDICATION OF HIGH WATER TABLE AT 12" DEPTH
CONVENTIONAL LEACHFIELD NOT APPROPRIATE.

SYSTEM SHALL BE TYPE A ANUA MOUNDED PAD
SYSTEM WITH PROGRAMMABLE DOSING TIMER,
INSTALLED PER ANUA DESIGN AND INSTALLATION
MANUAL, OR APPROVED EQUAL.

SOIL LOADING RATE= 0.4 GALLONS PER DAY/
PER SQ. FT. AT 12 INCHES DEPTH



SEPTIC TANK DETAIL
NOT TO SCALE



DOSING PUMP TANK DETAIL
NOT TO SCALE

SHAFER, KLINE & WARREN, INC.
107 Butler Street, Macon, MO 63552-1628
660/385-6441 FAX: 660/385-6614



WILLIAMSBURG, MO. MODOT FACILITY
SEPTIC SYSTEM IMPROVEMENTS

ONSITE PLAN AND DETAILS

140204-020
SHEET NO.
1 OF 1

Designed By: PW	4.	3	08-17-15	MOUND LOCATION CHANGED	JDC	PRW
Drawn By: DAB	2	3	04-30-15	ADDED NOTE 5	JDC	PRW
Checked By: PW	1	1	12-02-14	INCREASED SAND FILL WIDTH AND DEPTH	JDC	PRW
Issue Date: _____	NO.	DATE	REVISIONS		BY	APPD
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MISSOURI CERTIFICATE OF AUTHORITY: F00139850						

CIVIL ENGINEERS ELECTRICAL ENGINEERS MECHANICAL ENGINEERS LANDSCAPE ARCHITECTS LAND SURVEYORS LAND PLANNERS

Macon, MO
North Kansas City, MO
Tulsa, OK

OFFICE LOCATIONS:

Columbia, MO
Houston, TX
Lenexa, KS

