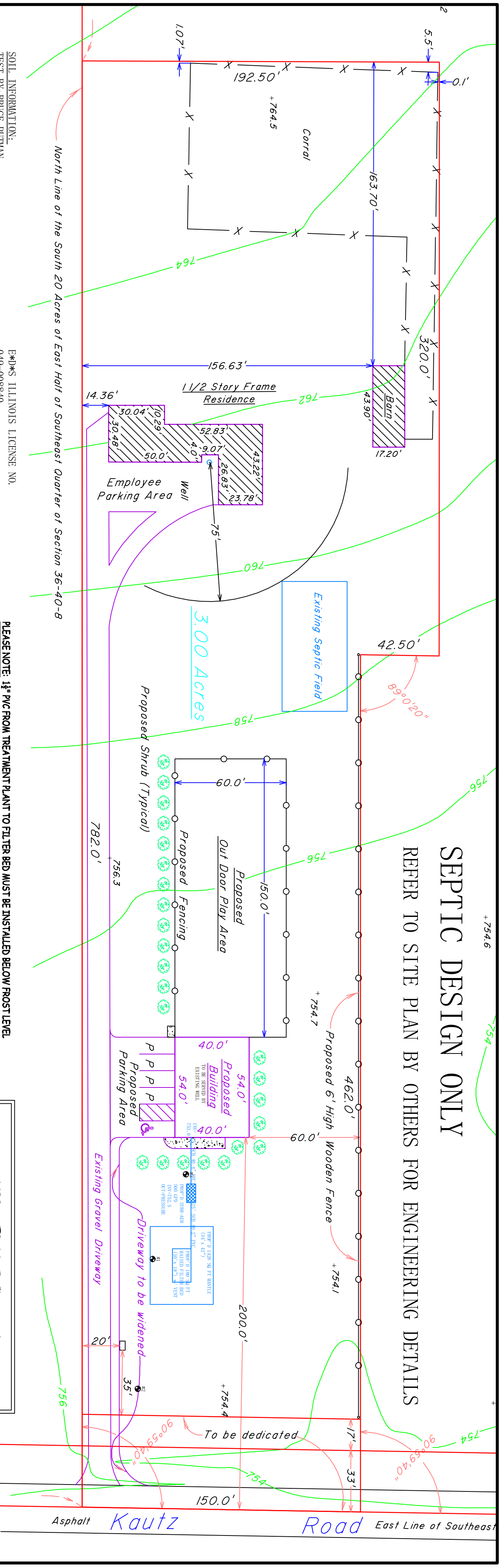


# SEPTIC DESIGN ONLY

REFER TO SITE PLAN BY OTHERS FOR ENGINEERING DETAILS



**SOIL INFORMATION:**  
 TEST BY: BRUCE PUTMAN  
 DATE OF TEST: FEBRUARY 20, 2020  
 CATEGORY: SHWT:  
 P/T 1 152 DRUMMER <13"  
 P/T 2 152 DRUMMER <17"  
 P/T 3 152 DRUMMER <12"  
 PERMEABILITY: UPPER MODERATE  
 LOADING RATE: .68

**SEWAGE SYSTEM COMPONENTS:**  
 500 GPD SYBR-AER  
 1500 GALLON TANK  
 180 SQ FT FILTER BED  
 1428 SQ FT MANTLE

EXISTING CONTOURS, ELEVATIONS, BOUNDARIES, LOT DIMENSIONS, EASEMENTS, & SETBACKS AS PER SITE DEVELOPMENT PLAN BY ASM CONSULTANTS, BATAVIA, IL

**PLEASE NOTE:**  
 OWNER MUST SUPPLY 120 VOLT 30 AMP ELECTRICAL SERVICE WITH DISCONNECT NEAR SEPTIC INVERT FOR POWER TO SEPTIC COMPONENT.

ALL SOLID PIPE SHOULD BE SCH 40 OR GREATER. ALL TANKS MUST BE IDPH APPROVED.

ALL SEPTIC TANKS, LIFT STATIONS, AERATION DEVICES AND ANY OTHER TREATMENT COMPONENTS SHALL BE INSTALLED WITH RISERS TO A MINIMUM OF 3" ABOVE FINISHED GRADE.

THIS SYSTEM IS DESIGNED TO BE INSTALLED AS A EZ FLOW 1203H RAISED FILTER BED. PLEASE REFER TO SCHEMATICS ON DRAWING. IF ADDITIONAL INFORMATION IS DESIRED, PLEASE CALL E\*J\*D\*S. ANY VENT LAST LINE OF FIELD WHEN FIELD IS BEING FED BY PUMP. (OPTIONAL FOR AT1) COMMERCIAL JOBS MUST INSTALL TANK LIDS AT GROUND LEVEL.

E\*J\*D\*S ILLINOIS LICENSE NO. 019-008840

THIS IS NOT A PLAT OF SURVEY. INFORMATION BELIEVED ACCURATE, BUT NOT WARRANTED.

THIS SEPTIC DESIGN REFLECTS THE INFORMATION PROVIDED BY A LICENSED SOIL CLASSIFIER. E\*J\*D\*S WILL NOT BE HELD RESPONSIBLE FOR ANY MISREPRESENTATION OR MISIDENTIFICATION OF THE SOILS.

IF VARIATIONS ARE MADE FROM THIS DESIGN TO WHICH POINT THAT THE COUNTY WOULD REQUIRE A REVISED DRAWING, IT WOULD BE THE RESPONSIBILITY OF THE CONTRACTOR TO EITHER SUBMIT AN "AS BUILT" DRAWING TO THE COUNTY OR ADVISE E\*J\*D\*S PRIOR TO INSTALLATION.

**CAUTION:** THE PROPOSED SEPTIC AREA(S) MUST BE CORDONED OFF BEFORE ANY CONSTRUCTION ON SITE. NO STORAGE OF MATERIALS OR VEHICULAR TRAFFIC IS ALLOWED UPON PRIMARY OR SECONDARY SEPTIC AREAS, NO PATIOS, DECKS, DRIVEWAYS, POOLS, OR OTHER IMPROVEMENTS SHALL BE INSTALLED WITH IN 5' OF SEPTIC AREA. DRAINAGE FROM CURTAIN DRAINS, FOOTING DRAINS, AIR CONDITONERS, DEHUMIDIFIERS, DOWN SPOUTS AND OTHER CLEAR WATERPANS SHALL NOT BE DISCHARGED INTO OR OVER THE SEPTIC AREA(S). REFER TO DEED, PLAT OF SURVEY, PLAT OF SUBDIVISION, COVENANTS AND LOCAL ORDINANCES FOR EASEMENTS AND SETBACK INFORMATION NOT INCLUDED HEREON. REPORT ANY DISCREPANCIES TO E\*J\*D\*S PRIOR TO CONSTRUCTION.

**PLEASE NOTE: 1 1/2" PVC FROM TREATMENT PLANT TO FILTER BED MUST BE INSTALLED BELOW FROST LEVEL.**

**ILLINOIS FILTER BED NOTES:**  
 S/B-AER system and raised filter bed disposal systems use an application rate to the filter of 4 gallons/square foot/day for residential systems of up to 1500 gpd flows. Commercial or industrial systems of any size or residential systems in excess of 1500 gpd use a filter bed loading rate of 2.5 gallons/square foot/day.

The mantle area is to be cut into original soil to a depth of 6" (level 1, 1") and back filled with 12" of FA-2 torpedo sand. The first 6" of sand immediately under and around the perimeter of the EZ flow system is to be ASTM Torpedo Sand (FA-2) with less than 10% passing a #100 sieve and less than 5% passing a #200 sieve.

Place specified sand in a 6 inch lift and compact. The compacted sand height below the EZ Flow must be a minimum of 30 inches. The mantle area must be at least 12" deep. If the high ground water table is less than 6" from the bottom of the filter bed, additional torpedo sand must be used to increase the isolation distance. Other separation distances (well, property line, etc.) shall be measured from the toe of the filter bed.

Place shovel full's of specified sand directly over the pipe area allowing the cover fabric to form a mostly vertical orientation along the sides of the pipe. Repeat this step moving down the pipe.

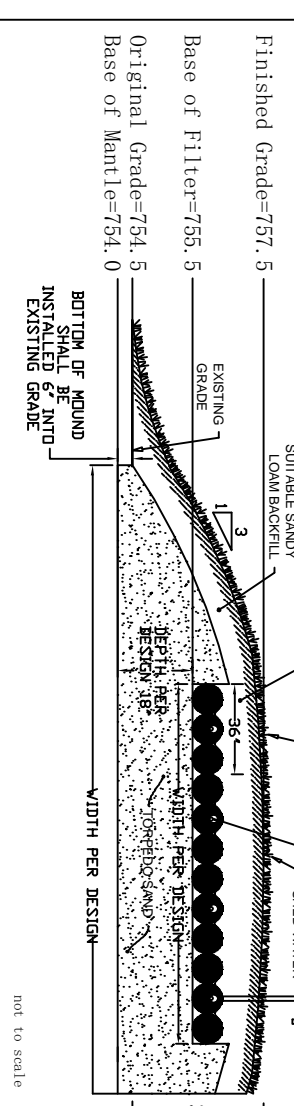
Complete backfill with native soil to 12-18 inches over the EZ Flow. Do not use wheeled equipment over the system during backfill operation.

System to be fed with a manifold connecting all EZ Flow pipes.

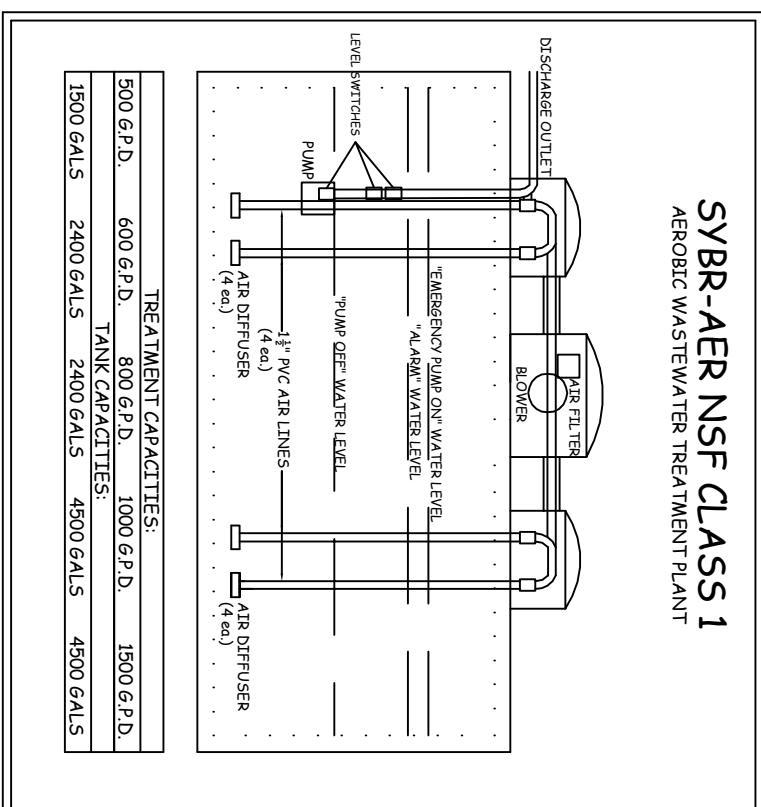
The placement of sod or seed blanket over the filter bed is a required part of the filter bed system.

**\*\*Contractor may choose to install as Quick 4 Equalizer system.\*\***

ILLINOIS RAISED FILTER BEDS/SEPTIC SYSTEMS  
 ILLINOIS RAISED SEWAGE DISPOSAL CODE SECTION 906.110.300 SHOULD BE PLACED OVER THE FILTER BED AND MANTLE FOR THIS SYSTEM. PERMISSION OVERSEER MUST BE OBTAINED. THE SYSTEM WILL NEED TO BE COVERED WITHIN 14 DAYS AND PERIODS TO A WIDE RAIN EVENT SO AS NOT TO IMPAIR THE INTEGRITY OF THE SYSTEM.

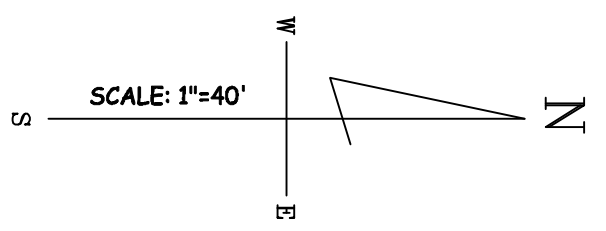


DIMENSIONS	
RAISED FILTER	10' X 18'
MANTLE AREA	34' X 42'
EZ FLOW 1203H	180 SQ. FT.
	(6) 10' PIECES



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**QUANTITY OF SEWAGE FLOW:**  
 8 EMPLOYEES @ 15 GPD = 120 GALLONS  
 60 DOGS @ 5 GPD = 300 GALLONS  
 TOTAL DAILY FLOW: 420 GALLONS PER DAY



NO.	DATE	REVISION NOTES

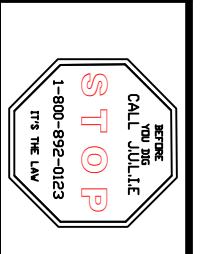
**E\*J\*D\*S ENVIRONMENTAL DESIGN SERVICE**  
 (630) 556-4FAX (630) 556-3100  
 45W34 Raymond Road P. O. Box 470  
 Sugar Grove, IL 60054-0470

09-36-476-016  
 METES & BOUNDS  
 PART OF SECTION 36  
 ST CHARLES TOWNSHIP, KANE COUNTY, ILLINOIS

PREPARED FOR:  
 BRIAN & TRACY MCLEAN  
 0N698 OLD KIRK ROAD, WEST CHICAGO, IL 60185  
 630-774-5853

JOB NUMBER	DRAWN BY:
19-297	2-25-2020
	D. Page
	REVIEWED BY:
	2-25-2020

SEWAGE DISPOSAL PLAN



SOIL/HEAVY TEST FIRM  
 LOCATION OF WELL  
 EXISTING CONTOURS  
 REVISIONS  
 X 792.6  
 1792.6  
 REVISIONS