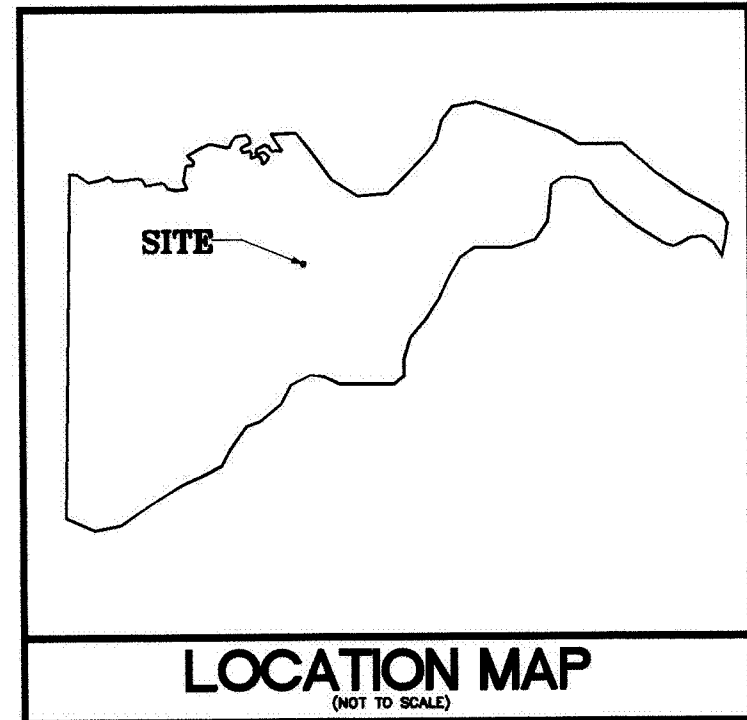
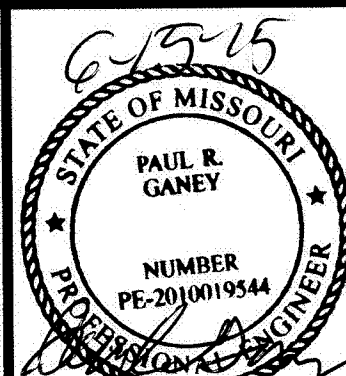


ST. CHARLES, MO



FOOD ZONE X
F.I.R.M. 29183C0242E AUGUST 2, 1995



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**KING SEPTIC
SERVICE
ENGINEERING**

**580 NORTH SERVICE ROAD
ST. PETERS, MO 63304**

JOB# 215-309

SITE PLAN

06/03/2015 1 of 1

GENERAL NOTES

- CONSTRUCTION OF THE ONSITE SEWAGE DISPOSAL SYSTEM SHALL COMPLY WITH THE MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES AS AMENDED BY ST. CHARLES COUNTY, AND THE SOILS REPORT BY ONSITE SOILS DATED 04/30/2015.
- SIZE, LOCATION, AND TYPE OF DISPOSAL SYSTEM SHALL NOT BE MODIFIED WITHOUT AUTHORIZATION FROM THE ENGINEER AND ST. CHARLES COUNTY.
- CONTOURS AND ELEVATIONS PER KING SEPTIC SERVICE ENGINEERING TEMPORARY BENCH MARK 100 (TBM). TOPOGRAPHY IS NOT A LEGAL SURVEY.
- PLANS FOR THE ONSITE DISPOSAL SYSTEM WERE PREPARED TO MEET MINIMUM STANDARDS PER STATE AND COUNTY REQUIREMENTS. KING SEPTIC SERVICE ENGINEERING DOES NOT REPRESENT NOR WARRANT PROPER OPERATION OR FUNCTION OF INSTALLED SYSTEM FOR ANY PERIOD OF TIME.
- ALL STORM WATER RUNOFF FROM THE DWELLING AND SURFACE RUNOFF SHALL BE DIVERTED AROUND AND NOT BE ALLOWED TO ENTER THE SYSTEM.

ONSITE WASTEWATER TREATMENT OPERATION AND MAINTENANCE

PROPER OPERATION AND MAINTENANCE IS REQUIRED FOR THE ONSITE WASTEWATER TREATMENT SYSTEM TO FUNCTION PROPERLY. KING SEPTIC SERVICE ENGINEERING RECOMMENDS A MAINTENANCE AGREEMENT WITH A QUALIFIED PROVIDER. OWNER IS EXPECTED TO FOLLOW GUIDELINE LOCATED WITHIN THE AERATION TANK SERVICE MANUAL.

SOIL EVALUATION

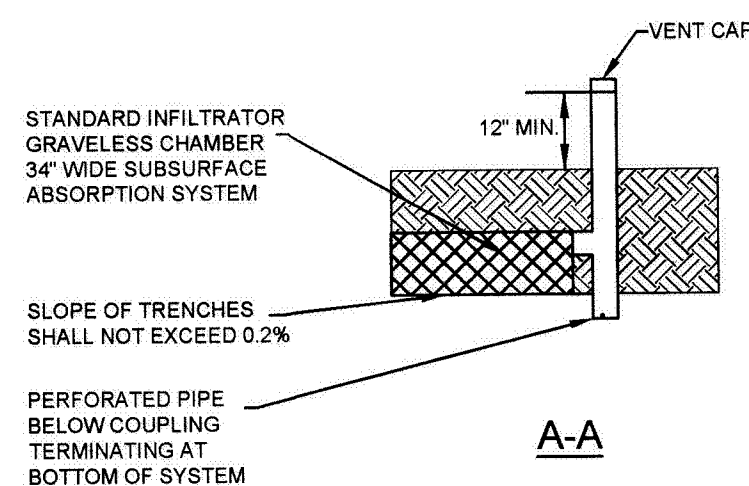
ON-SITE SOILS, COPY ATTACHED
JOHN H. BAUER
APRIL 30, 2015

ONSITE WASTEWATER TREATMENT DESIGN

APPLICATION RATE OF 0.40 GAL/SF/DAY FOR A CONVENTIONAL ABSORPTION SYSTEM WITH EVEN DISTRIBUTION.
EXISTING COMMERCIAL BUILDING WITH 5 FULL TIME EMPLOYEES AND 400 MAX VISITORS PER WEEK = 80 PER WEEK/DAY
25 GAL/EMPLOYEE X 5 + 5 GAL/VISITOR X 80 VISITORS = 525 GAL/DAY
34" CHAMBER (42" EFFECTIVE TRENCH WIDTH)
(525 GAL/DAY) / (0.40 GAL/SF/DAY X 3.5 FT) = 375 FT OF CHAMBERS REQUIRED
5 TRENCHES AT 100 FT = 500 FT OF CHAMBERS PROPOSED
PROPOSED CLASS #1 NSF 40 - 750 GAL/DAY JET AERATION TANK (OR APPROVED EQUAL)

NOTES

- ONE CLEANOUT MINIMUM REQUIRED BETWEEN BUILDING AND AERATION TANK.
- DRAINFIELD LINES SHALL FOLLOW CONTOURS OF PROPERTY.
- ONE CLEANOUT SHALL BE INSTALLED AT THE END OF EACH DRAINFIELD LINE.
- WATER SOFTNER BACKWASH AND SWIMMING POOL FILTER SYSTEMS SHALL NOT ENTER THE ONSITE WASTE WATER TREATMENT PLANT AND SHALL BE DISCHARGED PROPERLY.
- TRENCHES SHALL BE OVERFILLED WITH BACKFILL MATERIAL TO ALLOW FOR SETTLEMENT.
- PIPE ENTERING AND EXITING THE AERATION TANK SHALL BE SCHEDULE 40 PVC AND SHALL EXTEND A MINIMUM OF 5 FEET BEYOND THE EXCAVATION FOR THE SEWAGE AERATION TANK.
- DRAINFIELD SHALL BE LOCATED A MINIMUM OF 25 FEET FROM ALL PROPERTY LINES.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, AND LABOR FOR NEW SEPTIC SYSTEM.
- CONTRACTOR SHALL HAUL OFF OLD SYSTEM MATERIAL AND SPOILS.
- CONTRACTOR SHALL SEED AND STRAW ALL AREAS DISTURBED DURING INSTALLATION.
- OWNER, MODOT, SHALL SUPPLY POWER CIRCUITS FOR PUMP AND CONTROL PANEL. CONTRACTOR SHALL MOUNT CONTROLS AND MAKE FINAL ELECTRICAL CONNECTIONS.
- CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR DAMAGED OR BROKEN UTILITIES.

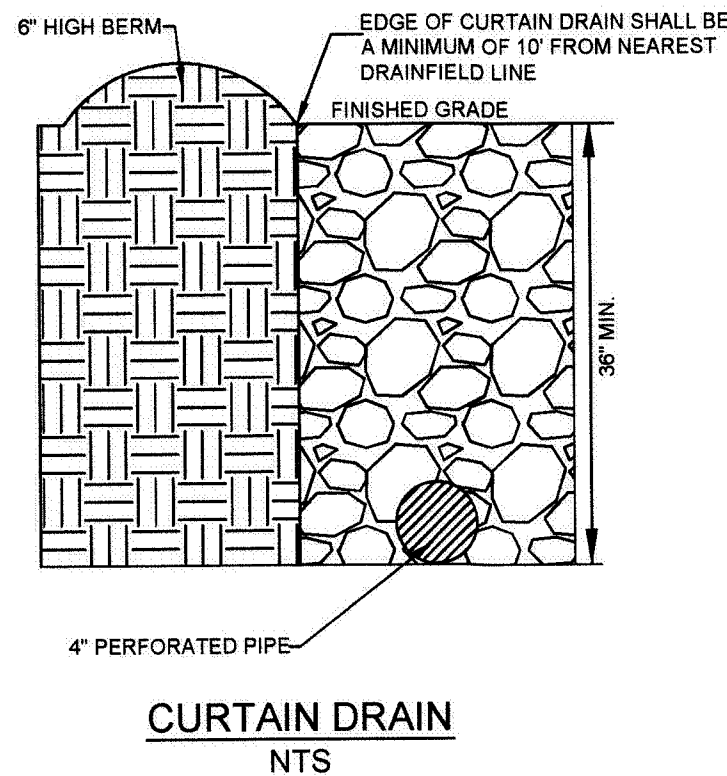


GRAVELLESS CHAMBER ABSORPTION FIELD
NTS

UTILITY NOTE:

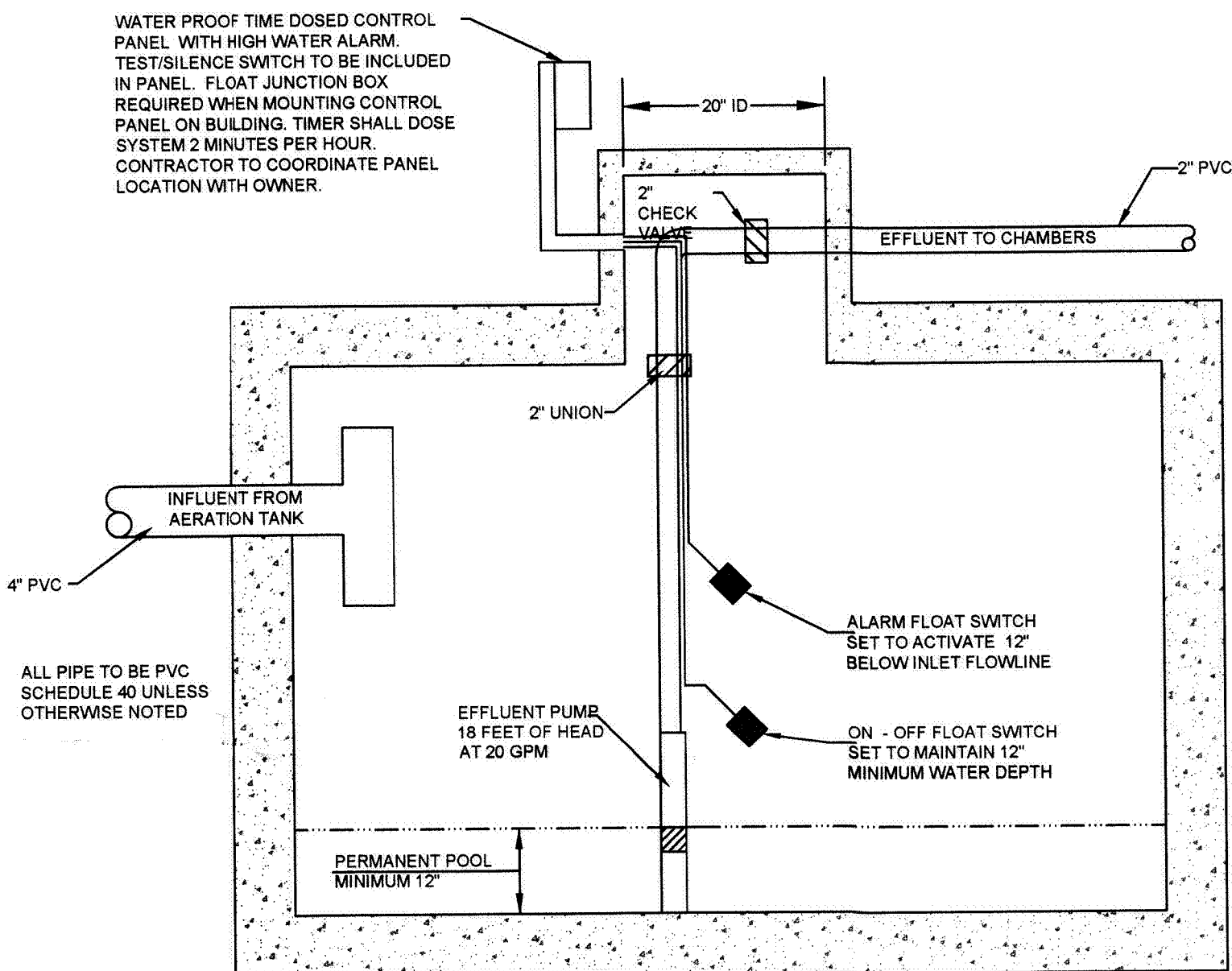
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND, THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.

KING SEPTIC SERVICE ENGINEERING AND THE UNDERSIGNED ENGINEER HAVE NO RESPONSIBILITY FOR SERVICES PROVIDED BY OTHERS TO IMPLEMENT THE IMPROVEMENTS SHOWN ON THIS PLAN AND ALL OTHER DRAWINGS WHERE THE UNDERSIGNED ENGINEER'S SEAL APPEARS. THE CONSTRUCTION MEANS AND METHODS ARE THE SOLE RESPONSIBILITY OF THE OWNER AND CONTRACTOR. KING SEPTIC SERVICE ENGINEERING HAS NO RESPONSIBILITY TO KEEP FINAL IMPROVEMENTS AS SHOWN ON THIS PLAN UNLESS SPECIFICALLY ENGAGED AND AUTHORIZED TO DO SO BY THE OWNER OR CONTRACTOR.

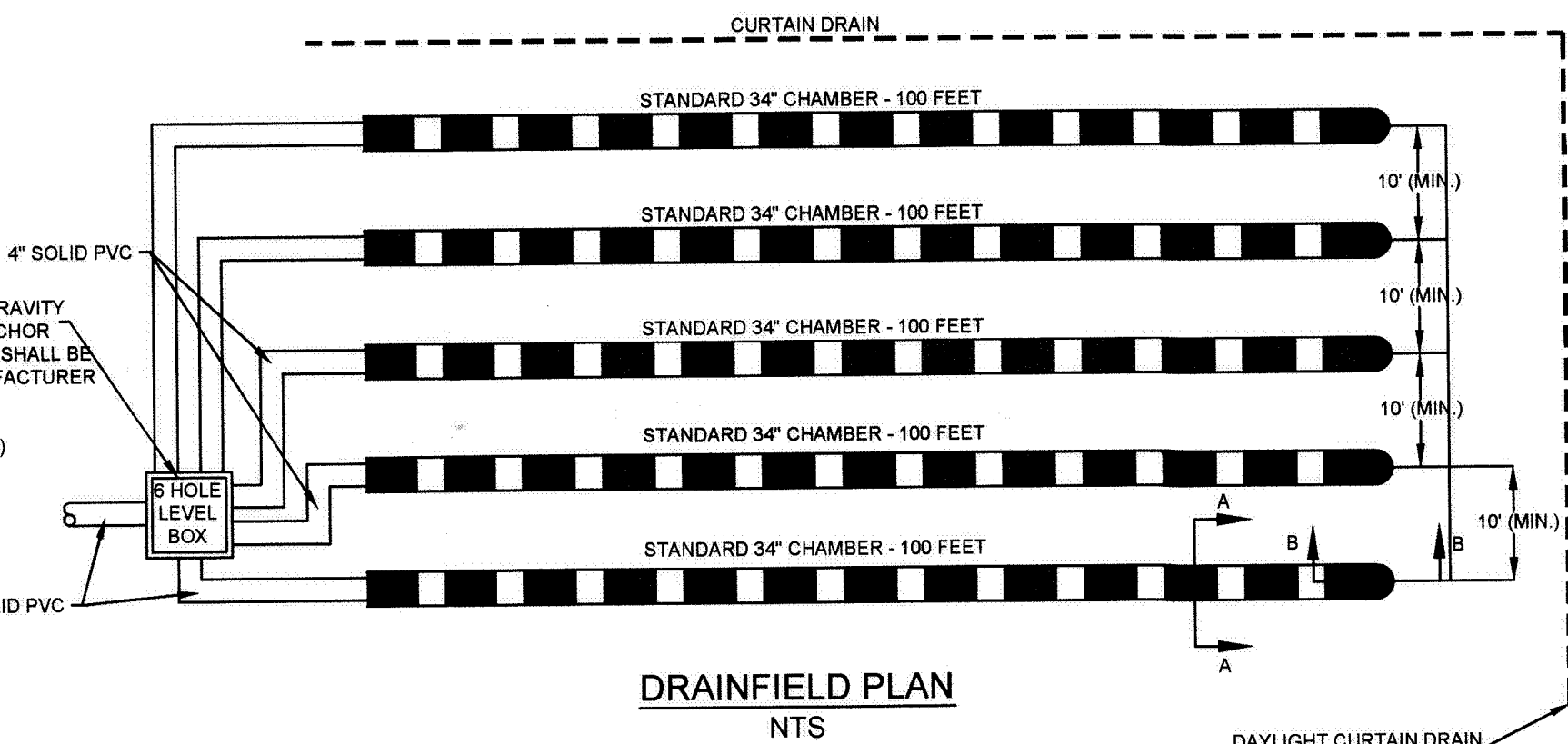


CURTAIN DRAIN
NTS

WATER PROOF TIME DOSED CONTROL PANEL WITH HIGH WATER ALARM. TEST/SILENCE SWITCH TO BE INCLUDED IN PANEL. FLOAT JUNCTION BOX REQUIRED WHEN MOUNTING CONTROL PANEL ON BUILDING. TIMER SHALL DOSE SYSTEM 2 MINUTES PER HOUR. CONTRACTOR TO COORDINATE PANEL LOCATION WITH OWNER.



1000 GALLON PUMP TANK
NTS



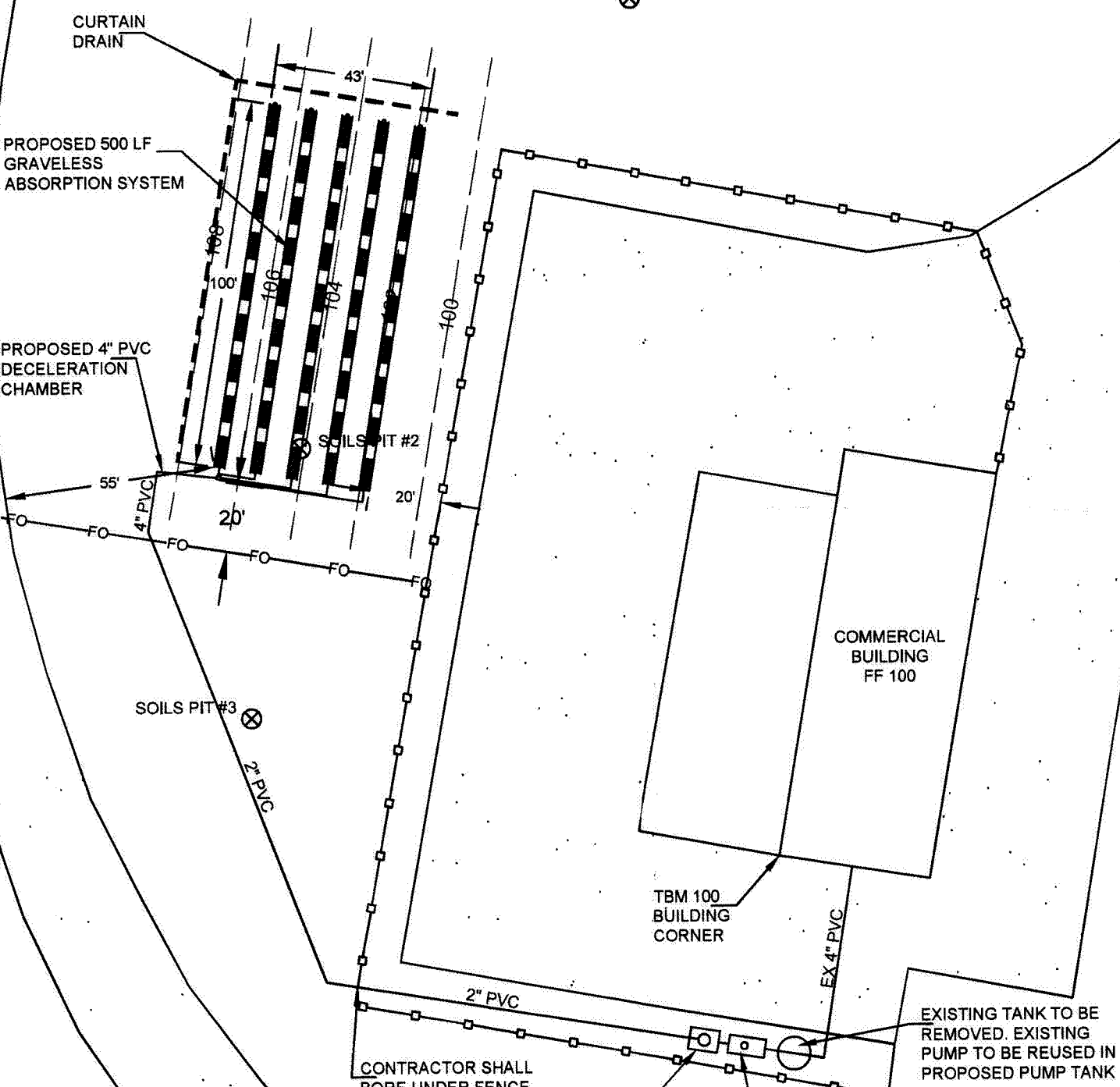
DRAINFIELD PLAN
NTS

LEGEND

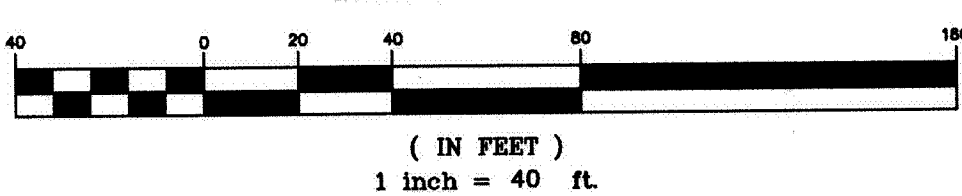
- PROPERTY LINE
- 34" CHAMBER
- CURTAIN DRAIN

HIGHWAY 79

E TERRA LANE



GRAPHIC SCALE



PREPARED FOR
MODOT
ALLEN LANE
314-581-0137