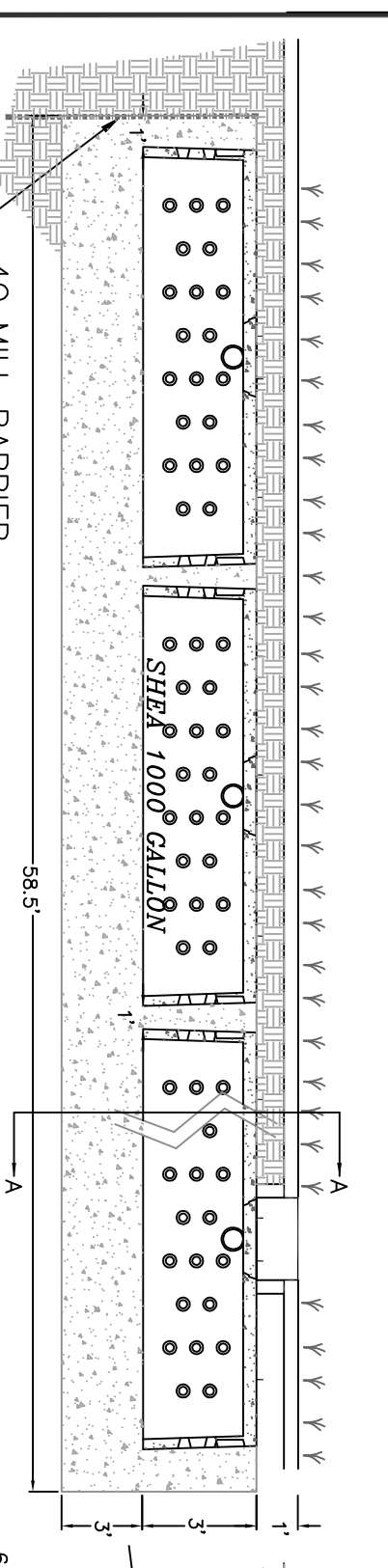
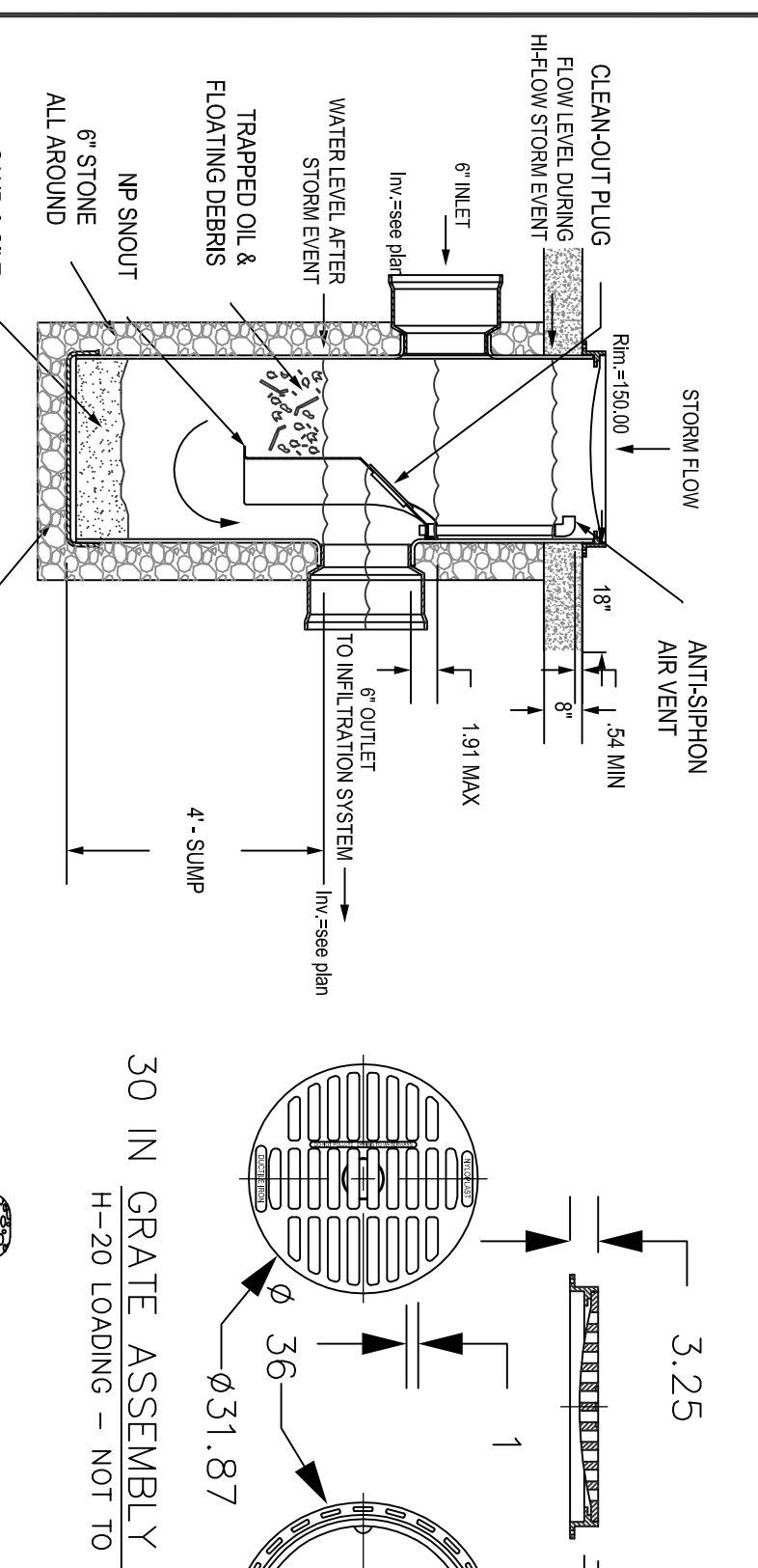


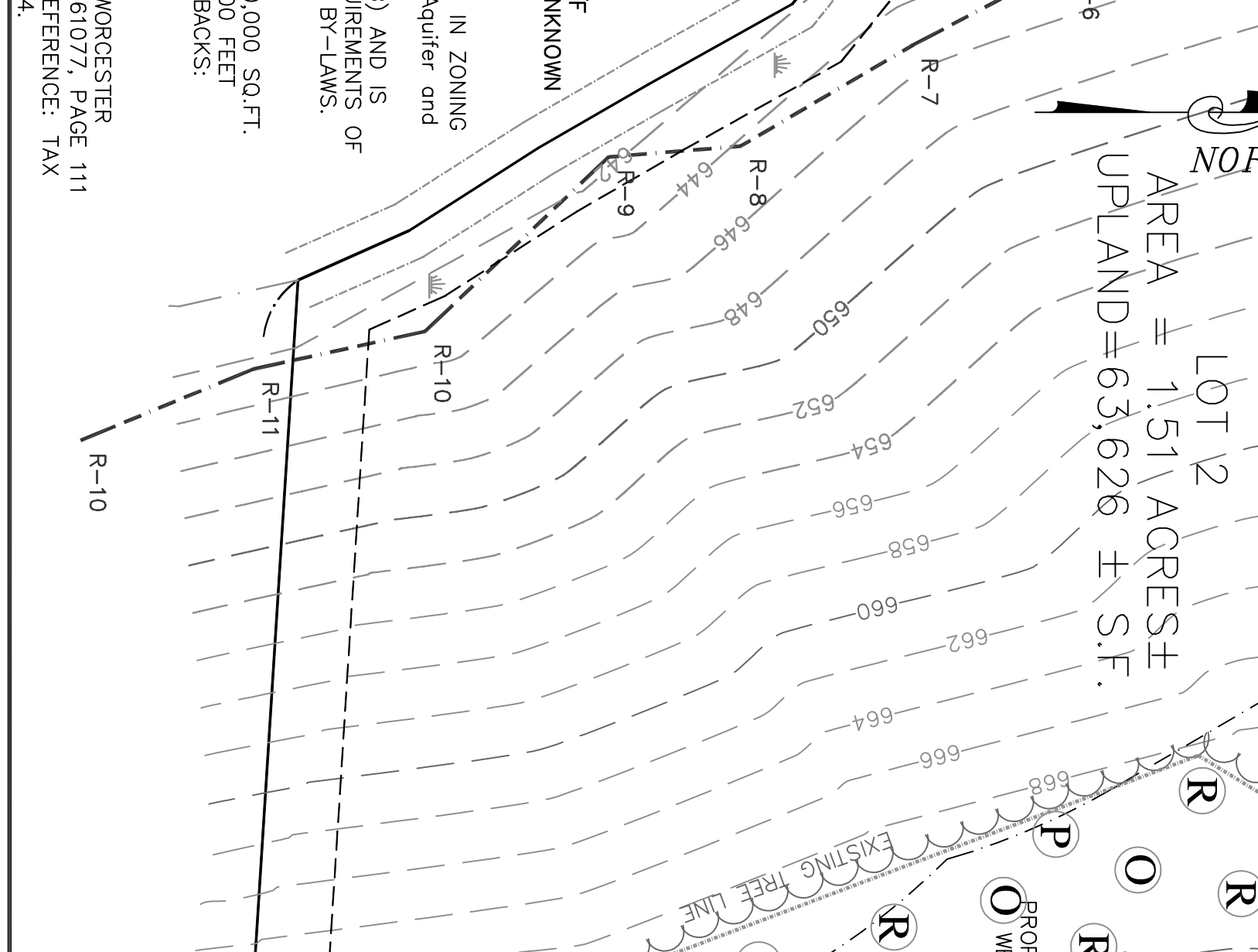
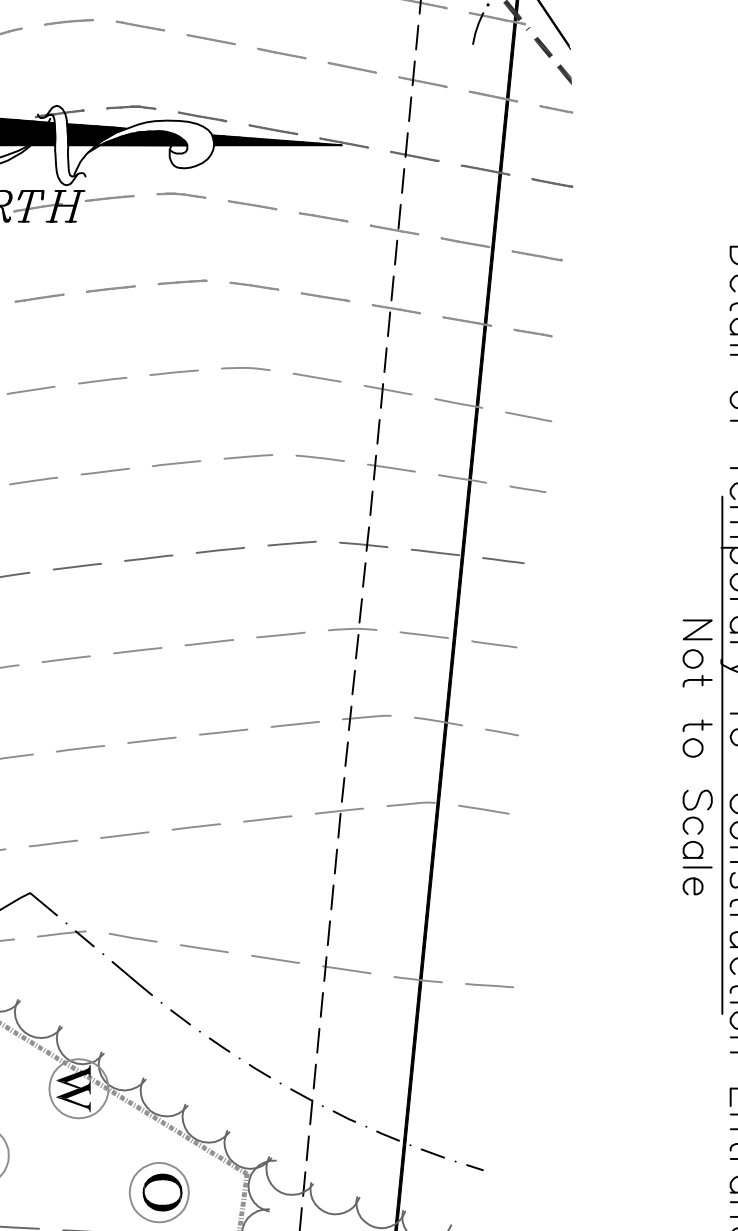
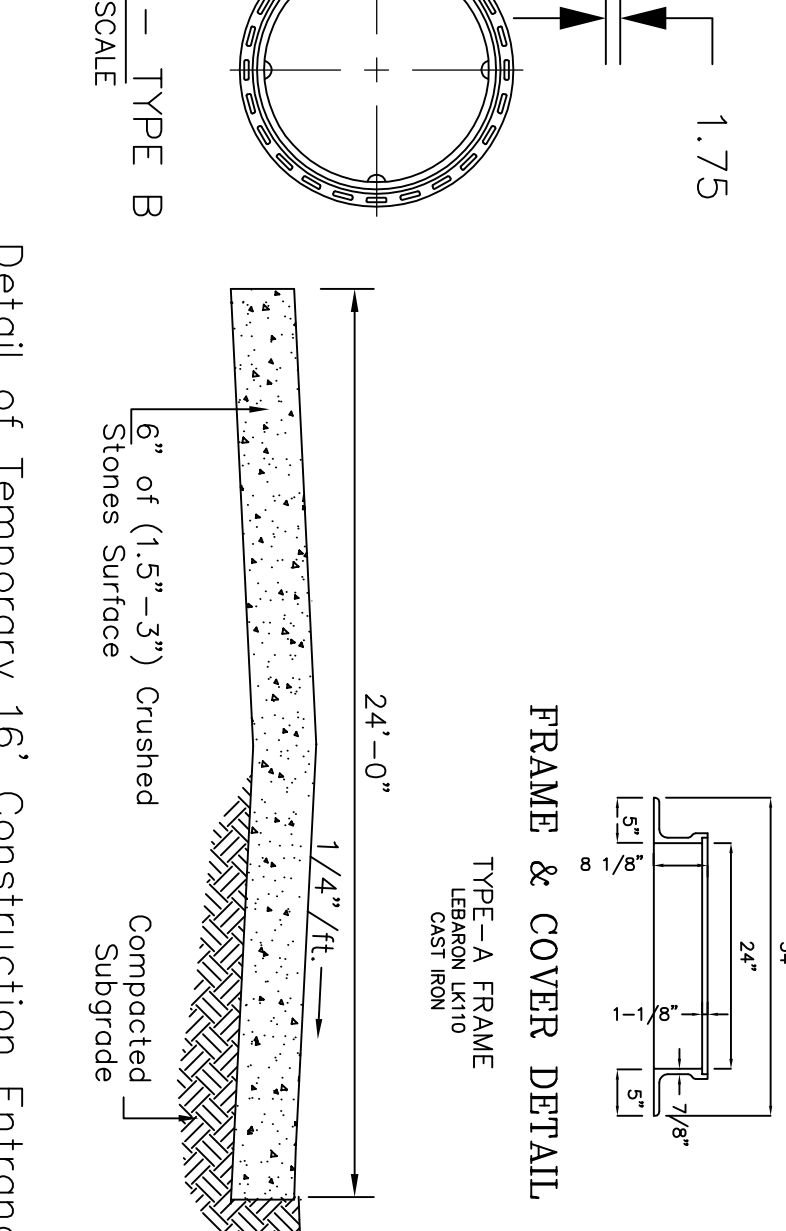
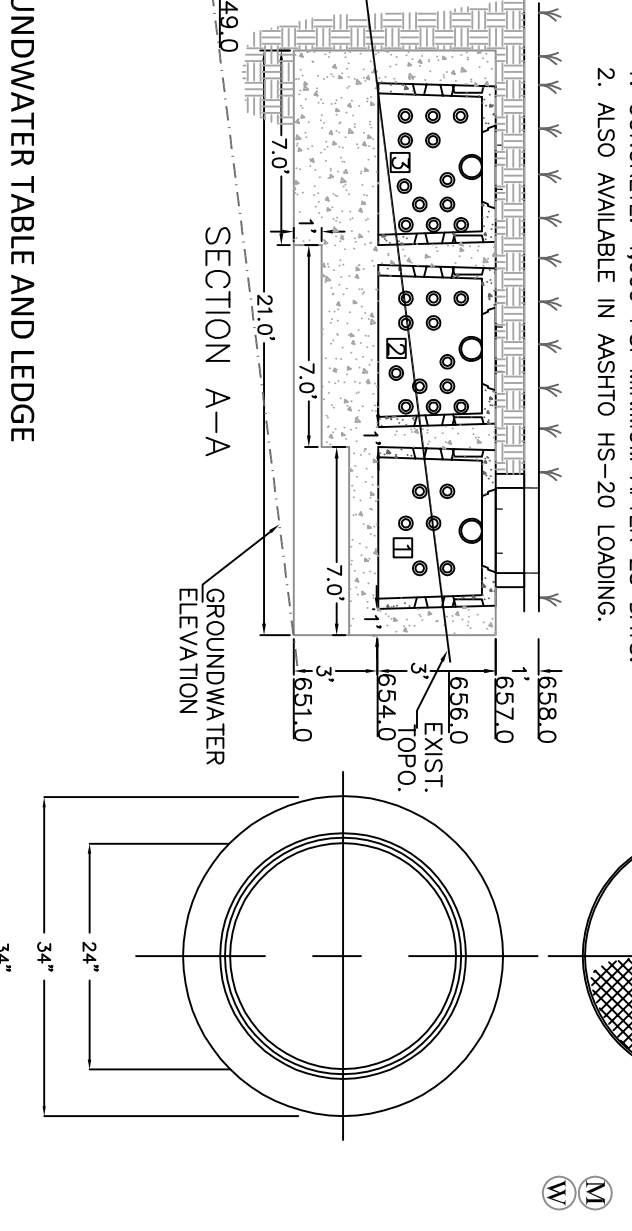
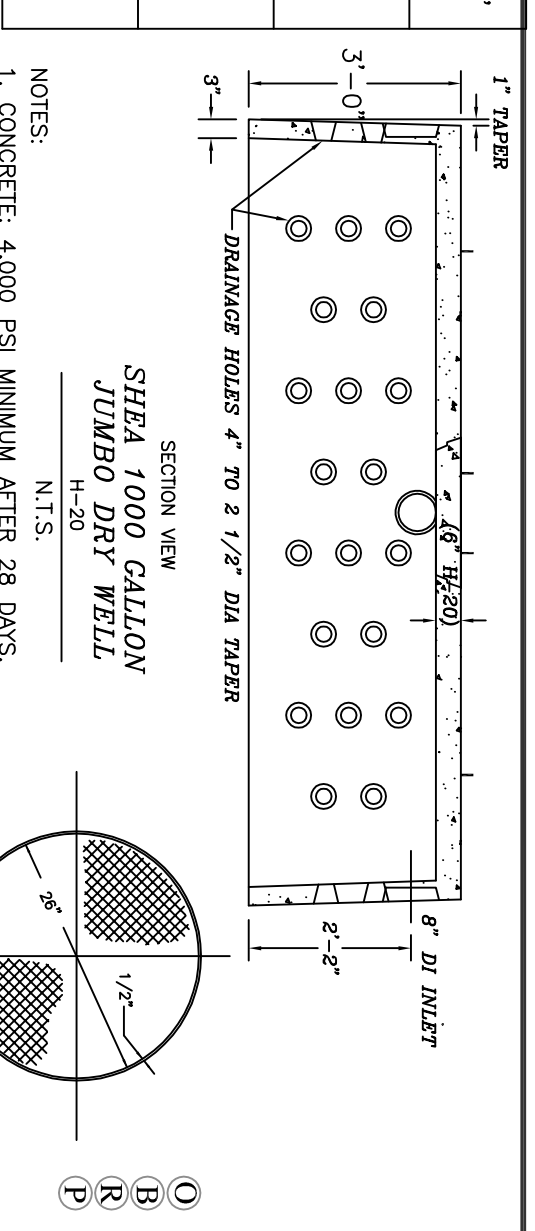
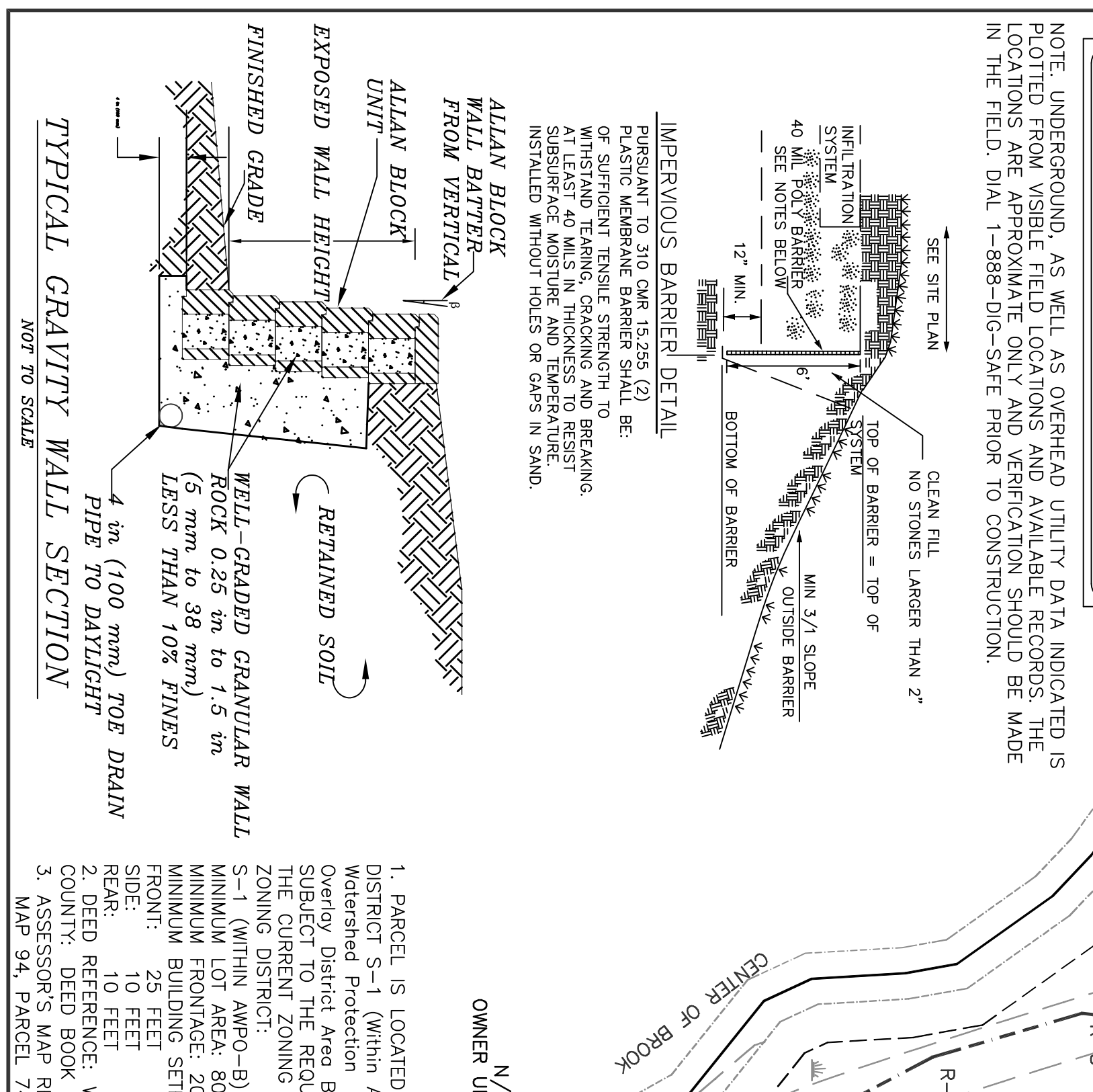
O.H. #	Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Moisture	Other (Structures, Stones, Boulders, Consistency % Gravel)
H-1	00-06"	A	SL	10YR4/3	EL 650	GRANULAR, FRIABLE
H-1	06-28"	B	SL	10YR5/6		WEAK BLOCKY, FRIABLE
H-1	28-60"	C1	SL	2.5Y5/3		SINGLE GRAIN, FRIABLE
H-1	60-108"	C2	LS	2.5Y5/3		SINGLE GRAIN, FRIABLE
H-2	00-08"	A	SL	10YR4/3		GRANULAR, FRIABLE
H-2	08-24"	B	SL	10YR5/6		WEAK BLOCKY, FRIABLE
H-2	24-72"	C1	LS	2.5Y5/3		SINGLE GRAIN, FRIABLE
H-2	72-96"	C2	LS	2.5Y5/3		SINGLE GRAIN, FRIABLE
H-3	00-06"	A	SL	10YR4/3		GRANULAR, FRIABLE
H-3	06-28"	B	SL	10YR5/6		WEAK BLOCKY, FRIABLE
H-3	28-60"	C1	LS	2.5Y5/3		SINGLE GRAIN, FRIABLE
H-3	60-108"	C2	LS	2.5Y5/3		SINGLE GRAIN, FRIABLE



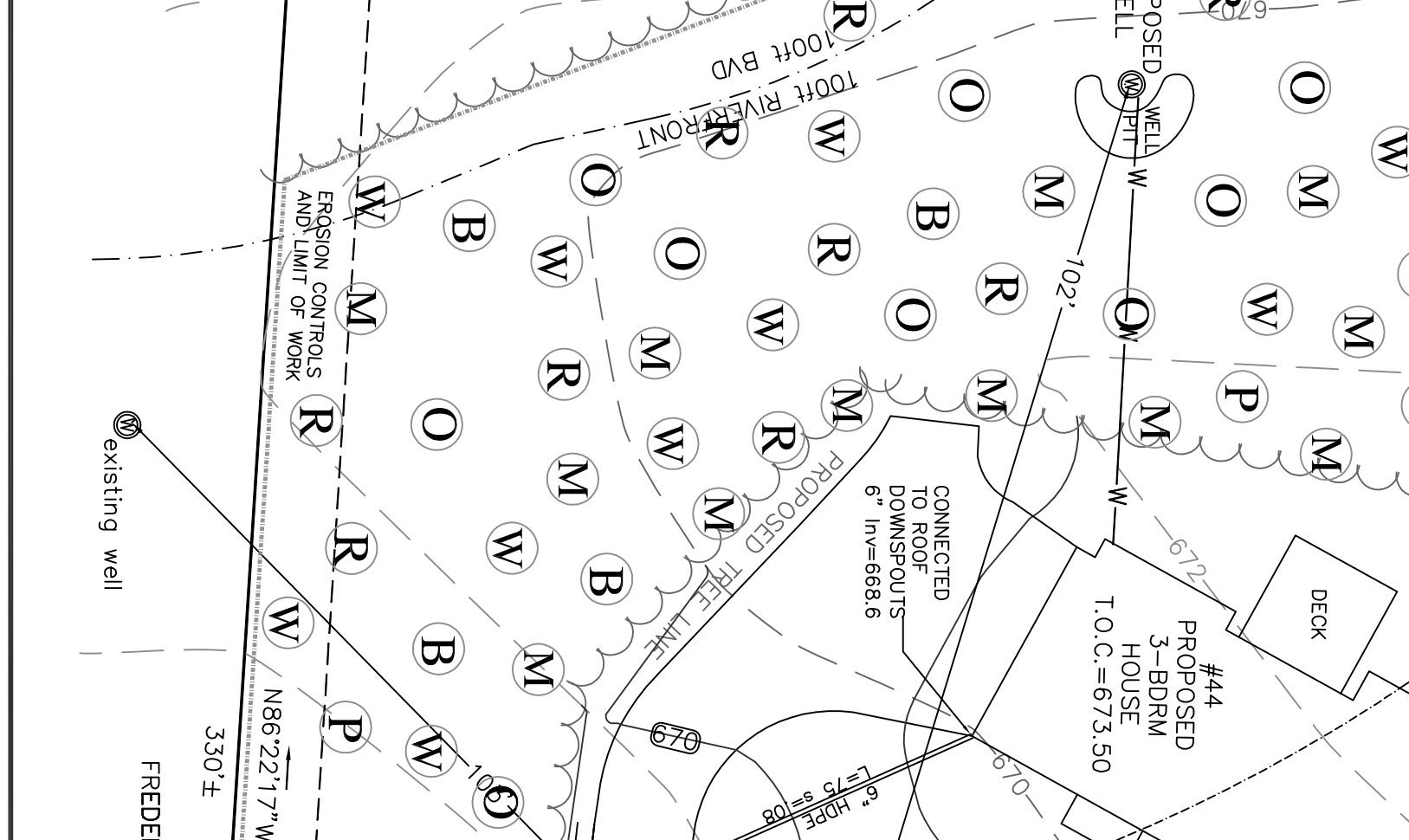
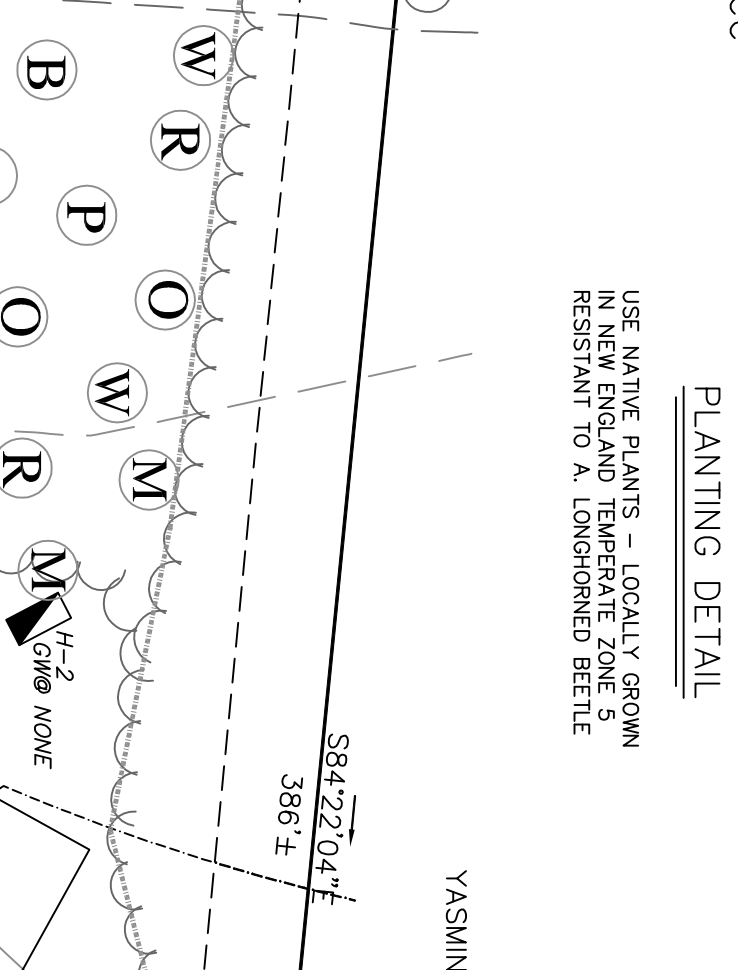
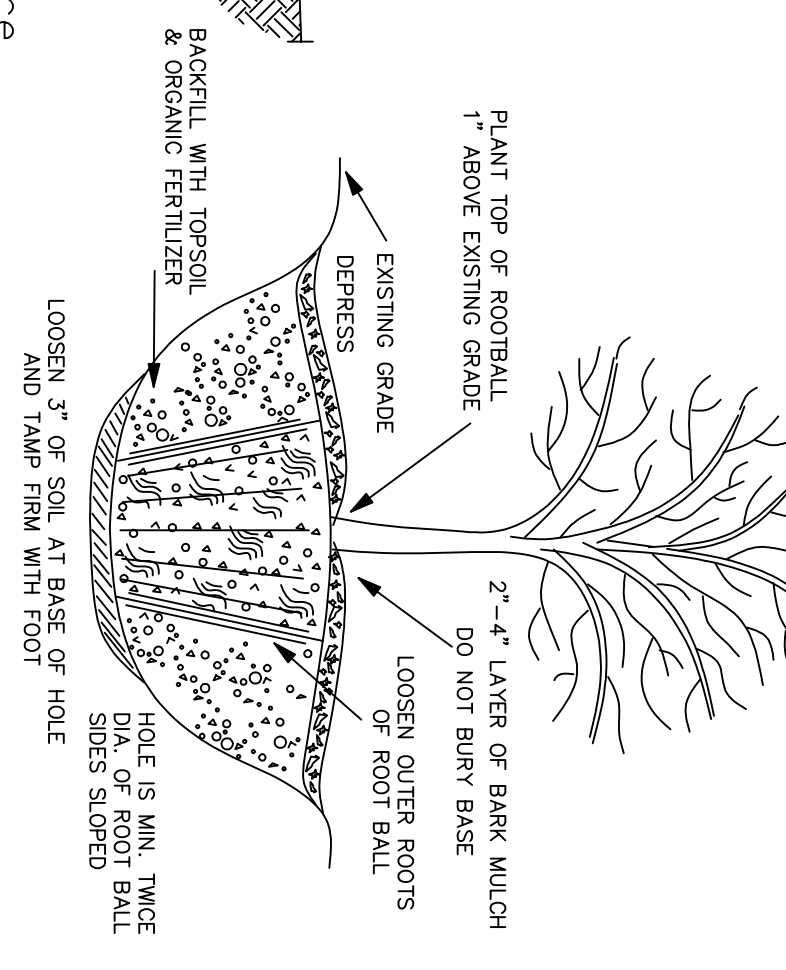
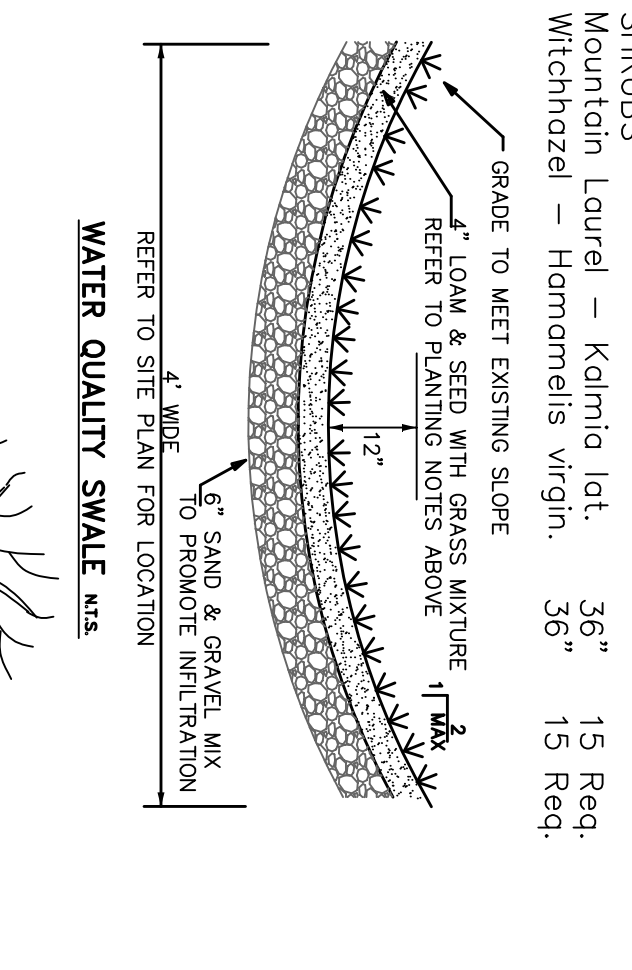
NOTES:
 1. SOIL LAYERS A, B AND C1 TO BE REMOVED AND REPLACED WITH TITLE 5 SAND.
 2. THE BOTTOM OF THE SYSTEMS ARE GREATER THAN 2-FT. ABOVE THE ESTIMATED SEASONAL HIGH GROUNDWATER TABLE AND LEDGE.



ELEVATIONS REFER TO NAVD88
 THE SITE IS NOT LOCATED WITHIN A FEDERAL FLOOD ZONE PER HUD MAP # 25027C COMMUNITY # 0818E DATED 07/04/2011
 WETLANDS DELINEATED BY ROBERT G. MURPHY
 ALL SURVEY WORK (INCLUDING, BUT NOT LIMITED TO, STREET UTILITIES, ABUTTING WELLS AND SEPTICS, ...ETC) WERE PROVIDED BY BLACKSTONE VALLEY MAPPING.
 CONTRACTOR TO NOTIFY DIG SAFE
 72 HOURS PRIOR TO ANY EXCAVATION
 WWW.DIGSAFE.COM



PLANT LIST & SPECIFICATIONS	Native Species	Quantity	Notes
TREES	Red Oak - Quercus rubra	2 1/2" Dia. 15 Req.	
	American Beech - Fagus gr.	2 1/2" Dia. 5 Req.	
	Red Maple - Acer rubrum	2 1/2" Dia. 15 Req.	
	White Pine - Pinus strobus	2 1/2" Dia. 5 Req.	
SHRUBS	Mountain Laurel - Kalmia lat.	36" 15 Req.	
	Witchhazel - Hamamelis virgin.	36" 15 Req.	



CONSTRUCTION SEQUENCE & EROSION CONTROLS

- The contractor and all sub-contractors are to be made aware of the Order of Conditions as granted by the Milbury Conservation Commission and its regulations applicable to this project. The contractor and the owner are responsible for the proper maintenance of the hay bale dike and to identify and correct all sources of erosion. Extra straw bales are to be stored on site in order to quickly repair erosion prone areas.
- Before grading and stump removal are to be confined to areas as shown on the specific design plan. Construction materials are to be stockpiled behind the hay bale dike in a manner which will not impact the local wetland resource area. All fueling of construction equipment is to be done in the uplands outside of the buffer zone when practicable.
- Temporary stabilization of disturbed areas is to limit erosion toward the wetland areas. All trenches are to be filled on a daily basis with special care taken to avoid routing runoff through gullies toward the wetland areas. The contractor is to use proper judgment relative to avoid routing runoff through gullies toward the wetland areas.
- Periodic maintenance of the erosion control structures is required in order to insure the proper protection of the resource areas. The hay bale dike is to serve as the limit of work.
- All graded areas are to be loamed and seeded as soon as possible in order to insure the rapid stabilization of the erosion prone areas. A Conservation Seed Mixture of 20% Annual Ryegrass, 30% Creeping Red Fescue & 50% Mowring Kentucky Bluegrass is recommended.
- The Erosion control structures are to remain in place for at least one full growing season. Periodic inspections of these erosion control structures is to continue during this phase of vegetation stabilization. In areas where silt fences have been installed, they are to be removed once the slopes have been stabilized in order to promote migration of water into the resource areas or their associated buffer zones. During the grow-in period, temporary erosion controls (i.e. bark, mulch or straw) is to be used to prevent erosion during periods of rainfall or snowmelt. If erosion of slopes should occur, immediate attention is to be given to stabilizing these areas to prevent impacts to resource areas and or their associated buffer zones.
- Periodic inspections of the entire construction site are to be performed by a competent representative who will insure the adherence to the regulations as set forth in 310 CMR 10.00. The contractor is to allow unimpeded access to the jurisdictional areas by all members of the Milbury Conservation Commission in order that they may view the construction procedures. No unauthorized individuals are to enter the construction area without the expressed consent of the contractor.
- All buried utilities as shown are taken from available information and are to be considered as approximate only. Prior to commencement of construction, the contractor is to contact DIG SAFE at 1-888-DIG SAFE to have all buried utilities properly located.

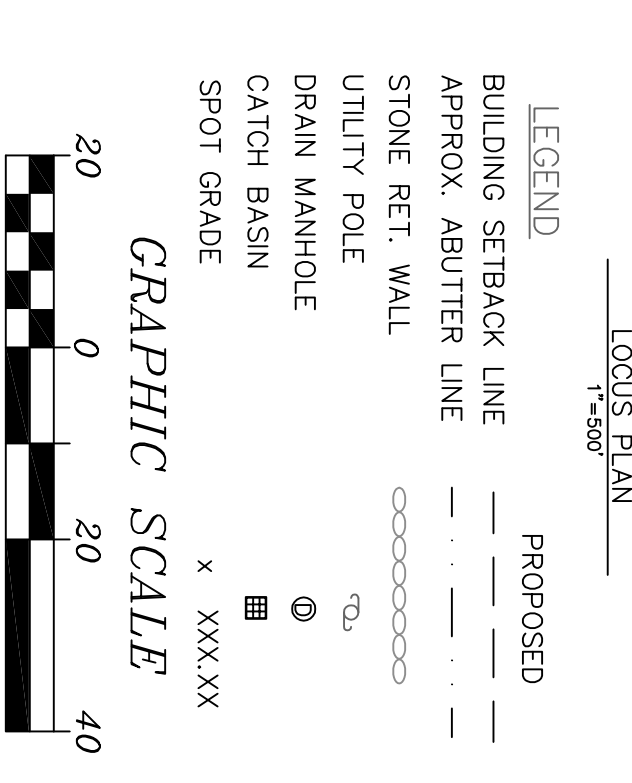
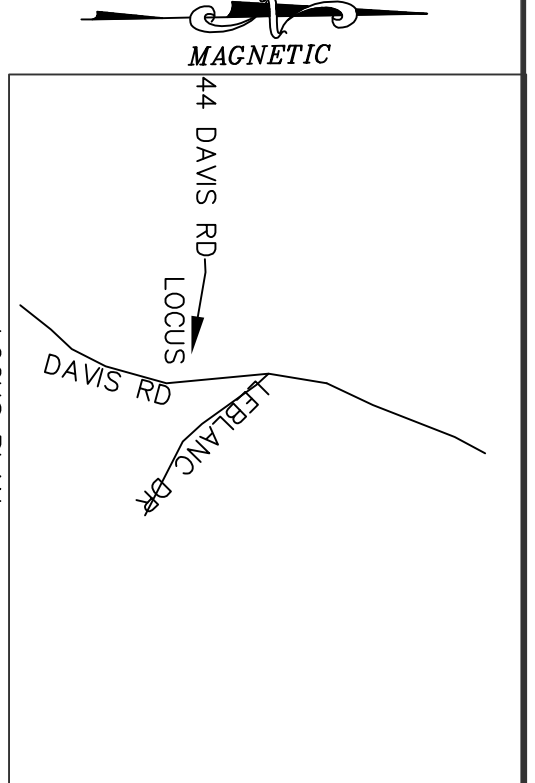
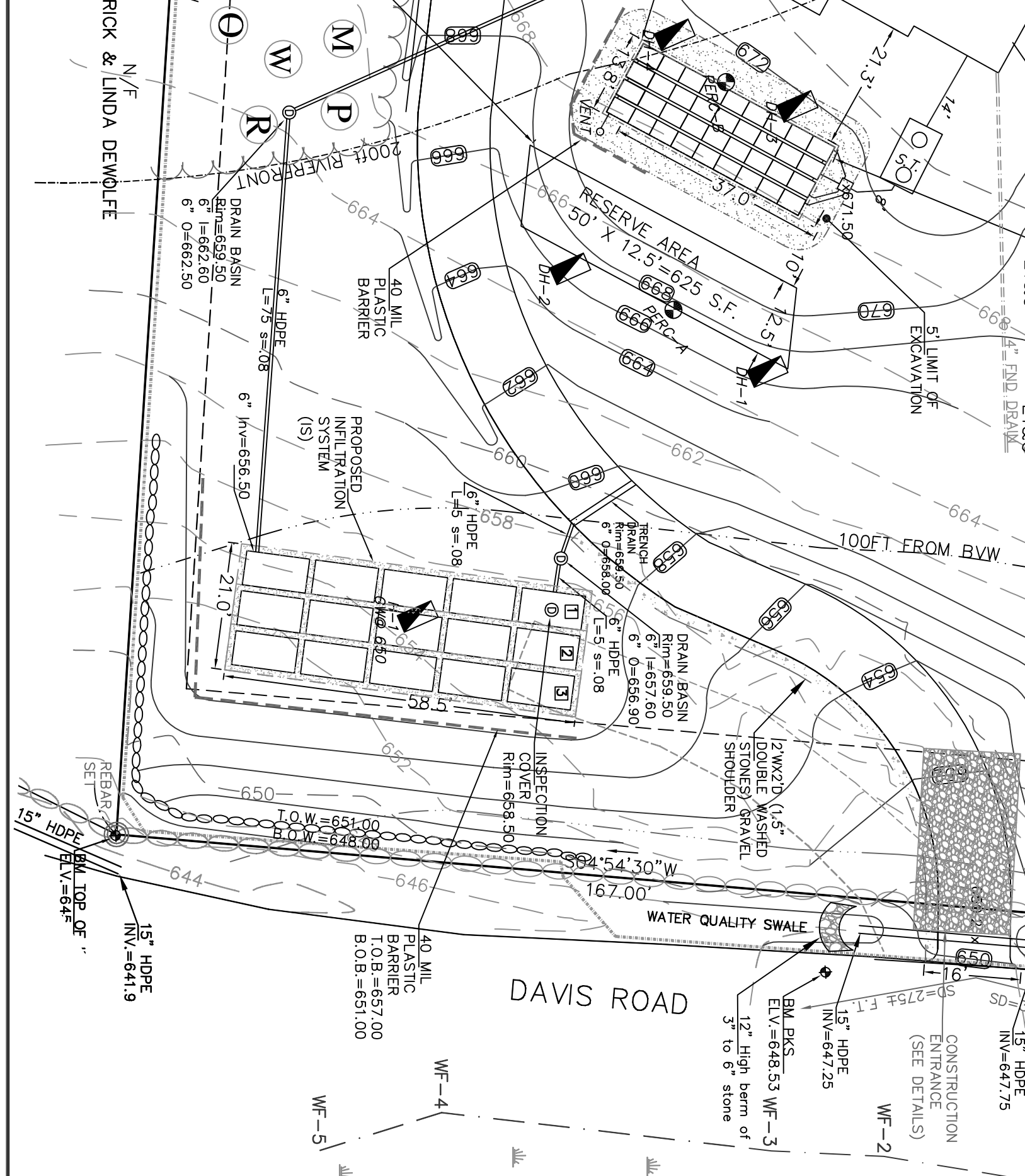
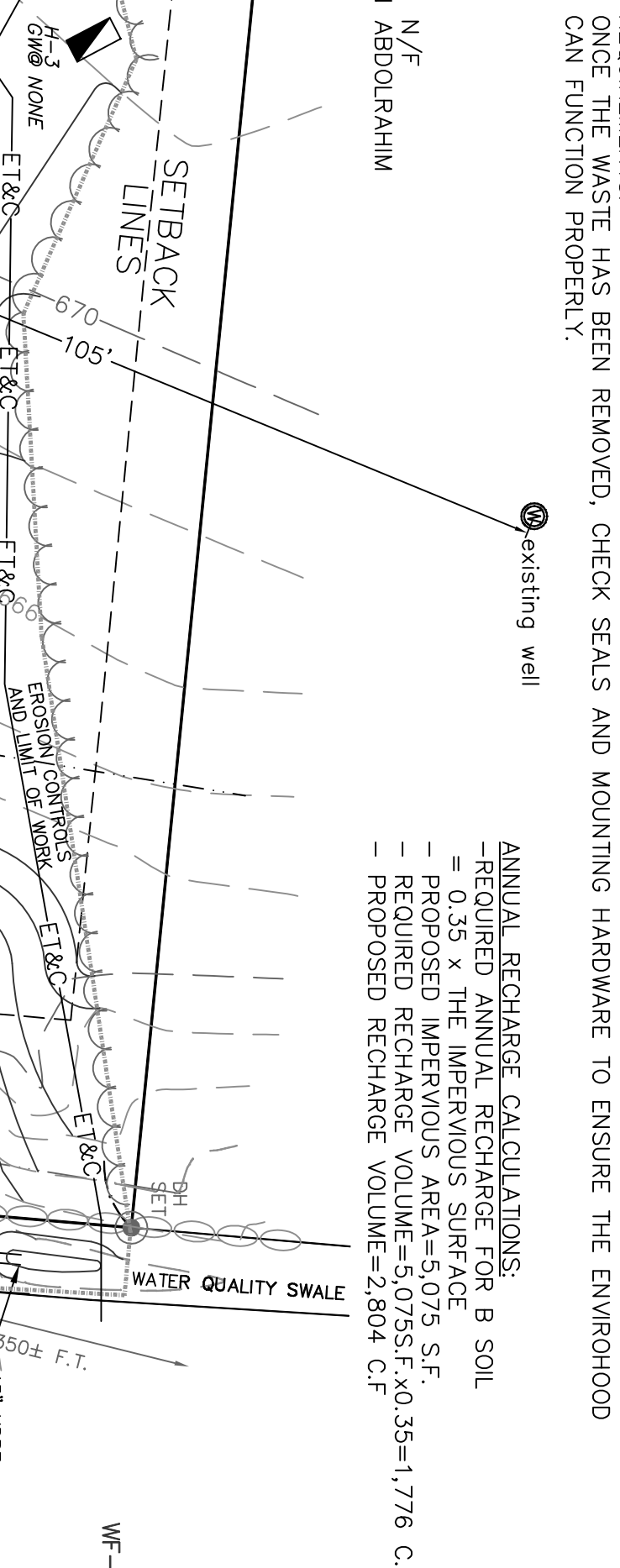
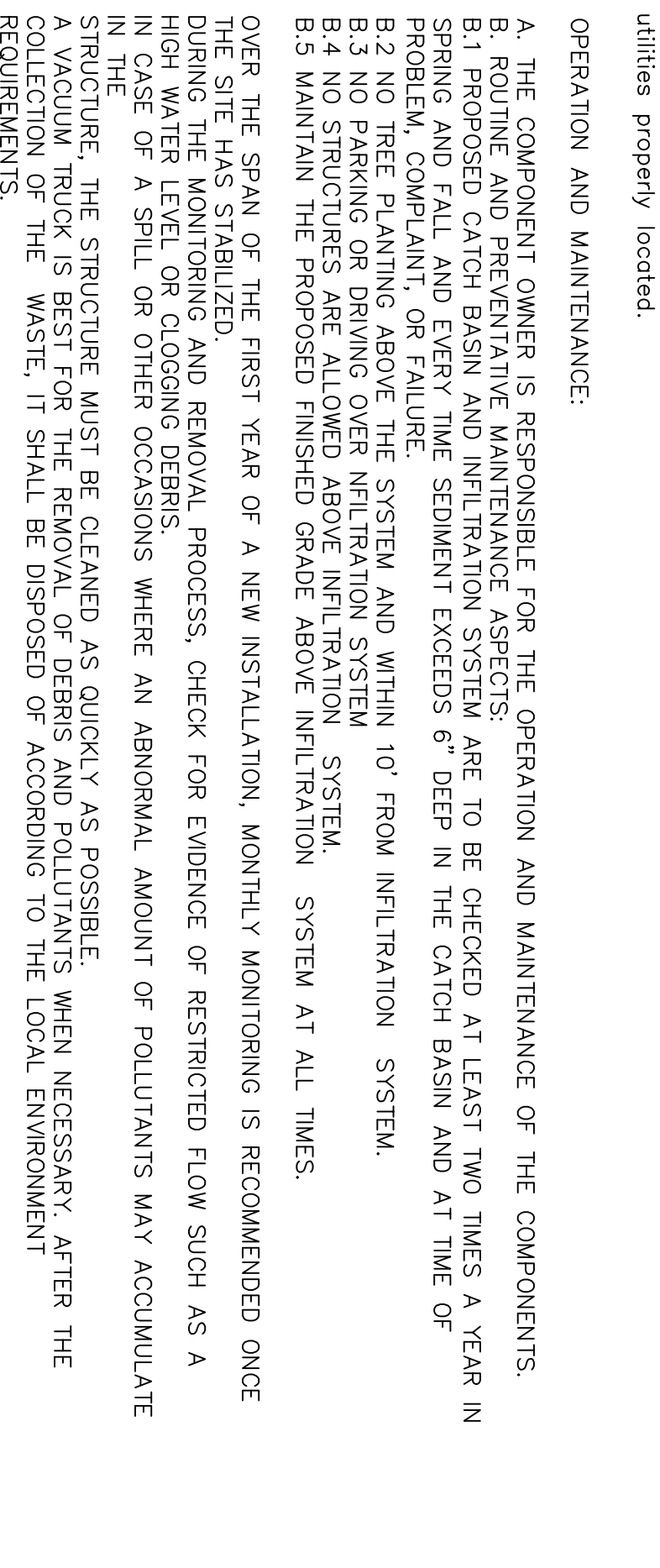
OPERATION AND MAINTENANCE:

- THE COMPONENT OWNER IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE COMPONENTS.
- ROUTINE AND PREVENTATIVE MAINTENANCE ASPECTS ARE TO BE CHECKED AT LEAST TWO TIMES A YEAR IN SPRING AND FALL AND EVERY TIME SEDIMENT EXCEEDS 6" DEEP IN THE CATCH BASIN AND AT TIME OF PROBLEM, COMPLAINT, OR FAILURE.
- NO TREE PLANTING ABOVE THE SYSTEM AND WITHIN 10' FROM INFILTRATION SYSTEM.
- NO SPRINKLING OR DRIVING OVER INFILTRATION SYSTEM.
- NO FERTILIZING OR ORGANIC FERTILIZER ABOVE INFILTRATION SYSTEM.
- MAINTAIN THE PROPOSED FINISHED GRADE ABOVE INFILTRATION SYSTEM AT ALL TIMES.

OVER THE SPAN OF THE FIRST YEAR OF A NEW INSTALLATION, MONTHLY MONITORING IS RECOMMENDED ONCE THE SITE HAS STABILIZED.

DURING THE MONITORING AND REMOVAL PROCESS, CHECK FOR EVIDENCE OF RESTRICTED FLOW SUCH AS A HIGH WATER LEVEL OR CLOGGING DEBRIS. IN CASE OF A SMALL OR OTHER OCCASIONS WHERE AN ABNORMAL AMOUNT OF POLLUTANTS MAY ACCUMULATE IN THE STRUCTURE, THE STRUCTURE MUST BE CLEANED AS QUICKLY AS POSSIBLE. A VACUUM TRUCK IS BEST FOR THE REMOVAL OF DEBRIS AND POLLUTANTS WHEN NECESSARY. AFTER THE COLLECTION OF THE WASTE, IT SHALL BE DISPOSED OF ACCORDING TO THE LOCAL ENVIRONMENT REQUIREMENTS.

ONCE THE WASTE HAS BEEN REMOVED, CHECK SEALS AND MOUNTING HARDWARE TO ENSURE THE ENVIRONMENT CAN FUNCTION PROPERLY.



RIVER FRONT AREA CALCULATIONS:
 - RIVER FRONT AREA WITHIN THE 200' APPROX. ABUTTER LINE
 - PROPOSED ALTERATION IN THE 200' BUFFER = 5,000 ± S.F.

ANNUAL RECHARGE CALCULATIONS:
 - REQUIRED ANNUAL RECHARGE FOR B SOIL = 0.35 x THE IMPERVIOUS SURFACE
 - PROPOSED IMPERVIOUS AREA = 5,075 S.F.
 - REQUIRED RECHARGE VOLUME = 0.35 x 5,075 x 36" = 1,776 C.F.
 - PROPOSED RECHARGE VOLUME = 2,904 C.F.

