

**NOTES:**

1. THIS PLAN HAS BEEN PREPARED FOR THE PROPOSED SEPTIC SYSTEM ONLY AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE.
2. REFERENCE IS MADE TO RIDEM SOIL EVALUATION #1309-0256.
3. THIS PLAN IS NOT A BOUNDARY SURVEY OR BOUNDARY PLAN.
4. THE SITE AND ADJACENT LOTS ARE SERVICED BY KENT COUNTY WATER AUTHORITY.
5. STORMWATER MANAGEMENT FOR ALL PROPOSED LOTS WAS INCLUDED IN THE ORIGINAL SUBDIVISION WETLAND PERMIT #01-0342.
6. BOTTOM OF FOUNDATION SHALL BE 2.0- FEET ABOVE SEASON HIGH GROUNDWATER OF 309.0- FEET.

**GENERAL SITE, SOILS & DESIGN DATA:**

1. PROPOSED LEACHFIELD IS LOCATED IN THE AREA OF TEST HOLES TH-6.
2. EXISTING GRADE AT THE CENTER OF THE PROPOSED LEACH FIELD IS ELEVATION 314.0.
3. E.S.H.G.W.T. FOR THIS AREA IS 60" BELOW ORIGINAL GRADE.
4. LEDGE IS ASSUMED AT 7.5' BELOW ORIGINAL GRADE.
5. USE LOADING RATE = 0.52 GAL/SF/DAY (CAT 5 SOIL).

**TANK SIZING CALCULATIONS:**

RESIDENTIAL DWELLING = 5 BEDROOMS  
 1,500 GAL REQ'D;  
 1,500 GAL PROVIDED

**LEACHFIELD SIZING CALCULATIONS:**

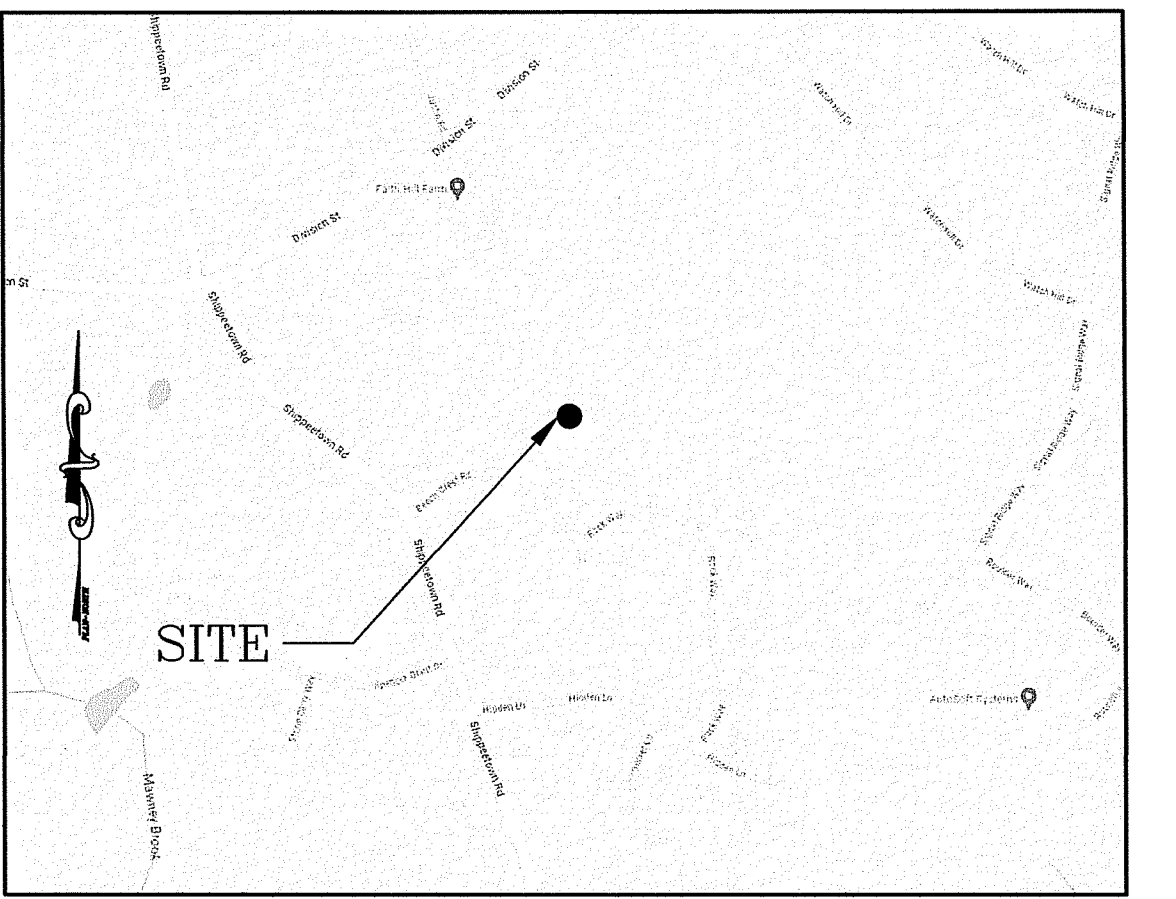
FLOW TO LEACHFIELD = 115 GAL/BEDROOM/DAY X 5 BEDROOMS = 575 GAL/DAY  
 LOADING RATE = 0.52 GAL/SF/DAY (BOTTOM OF SYSTEM IN CAT. 5 SOIL)  
 SQUARE FEET REQ'D. = 575 / 0.52 = 1106 S.F.  
 USE GST 6218 = 24.8 SF/FT  
 PROVIDED = 2 TRENCHES AT 26 LF./EACH = 52 LF.  
 AREA PROVIDED = 24.8 SF./LF. X 52 LF. = 1,289 S.F. > 1106 S.F.

**OWNER'S NOTES:**

1. FOOD/GARBAGE GRINDERS ARE PROHIBITED FROM BEING CONNECTED TO THE SEPTIC SYSTEM.
2. SINGLE PARKING OR TRAFFIC OVER THE SEPTIC TANK IS PROHIBITED.
3. BACKWASH WATER FROM WATER TREATMENT SYSTEMS (IF INSTALLED) SHALL NOT BE DISCHARGED INTO THE SEPTIC SYSTEM.
4. SEPTIC TANKS SHALL BE PUMPED OUT EVERY 24 MONTHS AND EFFLUENT FILTERS WASHED ANNUALLY UNLESS MORE FREQUENT MAINTENANCE IS DETERMINED TO BE REQUIRED BY OPERATION AND MAINTENANCE PROVIDER OF THE OWTS SYSTEM.
5. ONLY WASTEWATER AS DEFINED IN THE RIDEM OWTS REGULATIONS IS ALLOWED TO BE DISCHARGED INTO THE SEPTIC SYSTEM. ABSOLUTELY NO CHEMICALS, OILS, FATS, GREASE, OR PAINTS ARE ALLOWED. THIS IS NOT A GARBAGE DISPOSAL SYSTEM.
6. BATHUBS GREATER THAN 100 GALLONS ARE NOT ALLOWED IN THE HOUSE.
7. NO TREES OR LARGE SHRUBS SHALL BE PLANTED WITHIN 10 FEET OF THE LEACHFIELD.
8. NO SUBSURFACE DRAINS OR SUBDRAINS SHALL BE INSTALLED WITHIN 50 FEET OF THE OWTS UNLESS IN ACCORDANCE WITH OWTS REGULATIONS.
9. THE DESIGN INTENT IS TO MEET THE STATE STANDARDS. THE SYSTEM OPERATION IS DEPENDENT ON PROPER USAGE, AND ITS OPERATION IS NOT GUARANTEED BY THIS PLAN.

**LEACHFIELD CONSTRUCTION NOTES/SEQUENCE:**

1. **CLEARING:** ALL TREES, BRUSH AND STUMPS WITHIN THE AREA OF THE LEACHFIELD & WITHIN TEN (10) FEET OF THE LEACHFIELD SHALL BE REMOVED. INSTALL SOIL EROSION CONTROLS TO PREVENT SOILS FROM ERODING FROM SITE & FROM BEING TRACKED ONTO THE STREET. PROVIDE BERMS ALONG STREET EDGE TO KEEP STREET RUNOFF FROM ENTERING SITE.
2. **EXCAVATION:** THE LEACHFIELD TRENCHES, AREA BETWEEN TRENCHES, AND A FIVE FOOT PERIMETER SHALL BE STRIPPED OF ALL FILL & TOPSOIL (A HORIZONS) AND EXCAVATED TO THE ELEVATION SPECIFIED ON THE DRAWINGS. BOTTOM SHALL BE LEVEL. DESIGNER TO APPROVE BOTTOM PRIOR TO CONTINUING. SCARIFY BOTTOM OF EXCAVATION. DO NOT COMPACT OR SMEAR BOTTOM AND SIDE WALLS OF EXCAVATION. REMOVE ALL LARGE STONES & TREE ROOTS IN SIDE WALLS.
3. **BACKFILL COVER:** ALL BACKFILL SHALL BE FREE OF BOULDERS AND STONES GREATER THAN SIX (6) INCHES IN DIAMETER. FROZEN CLUMPS OF EARTH, RUBBISH, MASONRY, STUMPS OR WASTE CONSTRUCTION MATERIALS. BACKFILL SHALL BE PLACED CAREFULLY TO AVOID DISPLACEMENT AND DAMAGE TO PIPING. HEAVY MACHINERY SHALL NOT BE PERMITTED TO PASS OVER THE LEACHFIELD. FINE GRADE AREA SO RUNOFF IS DIVERTED FROM LEACHFIELD SURFACE.
4. **ADJACENT SIDE SLOPE:** A MINIMUM TEN (10) FOOT HORIZONTAL SEPARATION DISTANCE SHALL BE PROVIDED BETWEEN THE OUTER EDGE OF THE LEACHFIELD TRENCH AND ANY GROUND SURFACE ELEVATION LESS THAN THE ELEVATION OF THE INVERT OF THE DISTRIBUTION LINE. THE ADJACENT SIDE SLOPE SHALL NOT BE STEEPER THAN 3:1 (HORIZONTAL:VERTICAL) FOR A TWENTY-FIVE (25) FOOT MINIMUM DISTANCE FROM THE EDGE OF THE STONE OF THE LEACHFIELD TRENCH OR UNTIL THE TOE OF THE SLOPE RETURNS TO THE ELEVATION OF THE ORIGINAL GRADE. THE TOE OF THE 3:1 SLOPE SHALL BE A MINIMUM OF FIVE (5) FEET FROM ANY PROPERTY LINE.
5. **FINISH GRADE STABILIZATION:** IMMEDIATELY AFTER COMPLETION OF FINAL GRADING, THE AREA OF DISTURBANCE DUE TO INSTALLATION OF THE OWTS SHALL BE STABILIZED BY MULCHING AND SEEDING, OR SODDING, TO ESTABLISH A PERMANENT VEGETATIVE COVER TO PREVENT EROSION (EXCEPT DRIVEWAY AREA). THE LEACHFIELD SURFACE AREA SHALL BE FINE GRADED SO RUNOFF IS DIVERTED AWAY FROM LEACHFIELD AREA.

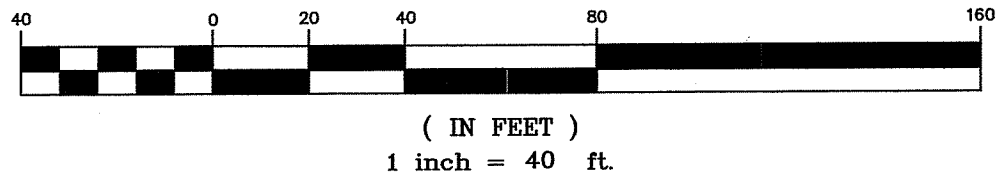


**LOCUS MAP**  
1" = 500'

**GENERAL NOTES:**

1. THIS PLAN WAS PREPARED FOR RIDEM SEPTIC SYSTEM PERMIT ONLY AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER. THIS IS NOT THE BUILDING PERMIT PLOT PLAN.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE "RULES ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS", LATEST REVISION, AS REGULATED THROUGH THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (THESE ARE REFERRED TO AS THE "RULES") AND THE STATE OF RHODE ISLAND ONE & TWO FAMILY DWELLING BUILDING CODE.
3. THE PROPOSED ACTIVITIES (ARE \_\_\_) OR (ARE NOT \_\_\_) UNDER THE RHODE ISLAND COASTAL RESOURCE MANAGEMENT COUNCIL'S JURISDICTION.
4. PUBLIC SEWERS (ARE \_\_\_) OR (ARE NOT \_\_\_) LOCATED WITHIN 200 FEET OF THE PROPERTY LINE.
5. DRINKING WATER LINES (ARE \_\_\_) OR (ARE NOT \_\_\_) LOCATED WITHIN 50 FEET OF THE PROPOSED OWTS. ALL DRINKING WATER LINES WITHIN 50 FEET OF THE PROPOSED OWTS HAVE BEEN SHOWN, IF PRESENT.
6. WATER SUPPLY IS BY (PUBLIC WATER SYSTEM \_\_\_) OR (PRIVATE WELL \_\_\_).
7. THERE (ARE \_\_\_) OR (ARE NOT \_\_\_) EXISTING AND PROPOSED PRIVATE DRINKING WATER WELLS LOCATED WITHIN THE SPECIFIED SETBACK DETAILED IN THE "RULES" + 100 FEET. IF WELL(S) ARE PRESENT, THEY HAVE BEEN SHOWN ON THE PLAN.
8. THERE (ARE \_\_\_) OR (ARE NOT \_\_\_) EXISTING AND PROPOSED WELLS SERVING NON-POTABLE USES WITHIN 100' OF THE OWTS. IF WELL(S) ARE PRESENT, THEY HAVE BEEN SHOWN ON THE PLAN.
9. THERE (ARE \_\_\_) OR (ARE NOT \_\_\_) EXISTING AND PROPOSED PUBLIC DRINKING WATER SUPPLY WELLS WITHIN 500 FEET OF THE PROPOSED OWTS. IF WELL(S) ARE PRESENT, THEY HAVE BEEN SHOWN ON THE PLAN. THE TYPE OF PUBLIC WELL, IF PRESENT, IS NOTED NEXT TO THE WELL.
10. THERE (ARE \_\_\_) OR (ARE NOT \_\_\_) WATERCOURSES AND WETLANDS WITHIN 200 FEET OF THE PROPOSED OWTS. IF PRESENT, THE LOCATIONS ARE SHOWN ON THE PLAN.
11. THERE (ARE \_\_\_) OR (ARE NOT \_\_\_) STORM AND SUBSURFACE DRAINS WITHIN 200 FEET OF THE PROPOSED OWTS. SAID DRAINS (DO \_\_\_) OR (DO NOT \_\_\_) DISCHARGE DIRECTLY OR INDIRECTLY INTO A CRITICAL RESOURCE AREA AS IDENTIFIED IN THE "RULES".
12. THE PROPOSED OWTS (IS \_\_\_) OR (IS NOT \_\_\_) LOCATED WITHIN THE WATERSHED OF A PUBLIC WATER SUPPLY.
13. THE PROPOSED OWTS (IS \_\_\_) OR (IS NOT \_\_\_) LOCATED WITHIN A CRITICAL RESOURCE AREA AS IDENTIFIED IN THE "RULES". THE DISTANCE TO THE NEAREST CRITICAL RESOURCE OF CONCERN IS \_\_\_ FEET.
14. THERE (ARE \_\_\_) OR (ARE NOT \_\_\_) EXISTING AND/OR PROPOSED OWTS WITHIN 200 FEET OF ANY PROPOSED WELL. IF PRESENT, THE LOCATION AND SIZE HAS BEEN SHOWN ON THE PLAN.
15. EXISTING OWTS WITH A DESIGN FLOW GREATER THAN 1,000 GAL/DAY (ARE \_\_\_) OR (ARE NOT \_\_\_) LOCATED WITHIN 400 FEET OF THE PROPOSED WELL. IF PRESENT, THE LOCATION AND SIZE HAS BEEN SHOWN ON THE PLAN.
16. THERE (ARE \_\_\_) OR (ARE NOT \_\_\_) AREAS ON SUBJECT PROPERTY WHERE SOIL HAS BEEN EXCAVATED AND/OR WHERE STORM DEPOSITED SAND IN THE BACKDUNE ENVIRONMENT OR WHERE HUMAN TRANSPORTED MATERIAL HAS BEEN DEPOSITED.
17. THE POTENTIAL FOR FLOODING WITHIN 100 FEET OF THE PROPOSED OWTS DOES NOT EXIST.
18. THE PROPOSED WELL, IF APPLICABLE, (DOES \_\_\_) OR (DOES NOT \_\_\_) REQUIRE A VARIANCE FROM RIDEM'S "RULES" AND REGULATIONS GOVERNING THE ENFORCEMENT OF CHAPTER 46-13.2 RELATING TO THE DRILLING OF DRINKING WATER WELLS".
19. THIS APPLICATION (IS \_\_\_) OR (IS NOT \_\_\_) PART OF A SUBDIVISION OF FIVE (5) LOTS OR LESS WITH EXISTING ROAD FRONTAGE.
20. THE SUBJECT PROPERTY (IS \_\_\_) OR (IS NOT \_\_\_) SERVED WITH AN OWTS & PRIVATE WELL. THE NITROGEN LOADING RATE SHALL NOT EXCEED 345 GAL/DAY PER 20,000 SQUARE FEET OF PROPERTY WHEN SERVED WITH AN OWTS & PRIVATE WELL.
21. THE CONTRACTOR SHALL STAKE AND FLAG THE LEACHFIELD AREA TO PROTECT THE LEACHFIELD FROM VEHICLE TRAFFIC AND EXCESSIVE WEIGHT LOADS BEFORE AND DURING CONSTRUCTION OF THE OWTS AND THE STRUCTURE. FLAGGING SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES AT THE SITE ARE COMPLETE.

**PLAN VIEW**  
SCALE: 1" = 20'  
GRAPHIC SCALE



TEST HOLE	DATE	GRADE ELEV.	SHGW ELEV.
TH-5	04/12/23	311.4	306.4
TH-6	04/12/23	314.0	309.0

SEE SOIL EVALUATION FORM, SHEET 2

**GRADING & DRAINAGE NOTES:**

1. CONTRACTOR TO FINE GRADE LOT IN ACCORDANCE WITH STATE OF RHODE ISLAND ONE AND TWO FAMILY DWELLING CODE. LOT SHALL BE GRADED SO THAT ADDITIONAL ACCUMULATION OF SURFACE WATER DOES NOT OCCUR ACROSS ADJOINING PROPERTY. SURFACE DRAINAGE SHALL BE DIVERTED TO A STORM SEWER CONVEYANCE OR OTHER POINT OF COLLECTION SO AS NOT TO CREATE A HAZARD. LOTS SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE AWAY FROM FOUNDATION WALLS SHALL FALL A MINIMUM OF 6" WITHIN THE FIRST 10 FEET. IMPERVIOUS SURFACES (DRIVEWAY) SHALL BE SLOPED AWAY FROM HOUSE AT A SLOPE OF 2% FOR AT LEAST 10 FEET.
2. FINE GRADE PROPERTY TO PREVENT STREET RUNOFF FROM ENTERING SUBJECT PROPERTY.

**DOSING DATA TO GST 6218:**

GST 6218 SYSTEM TO BE DOSED 4 TO 8 TIMES PER DAY  
 SYSTEM TO BE DOSED 8 TIMES PER DAY  
 = (575 GAL./DAY) / (8 DOSES/DAY) = 71.9 GAL./DOSE  
 DRAIN BACK TO PUMP = 22 FT. X 0.0918 GAL./FT. = 2.0 GAL.  
 MAX. DOSE TO GST 6218 = 71.9 GAL + 2 GAL = 73.9 GAL.  
 PUMP SETTING: PUMP SYSTEM SHALL DOSE NO MORE THAN 73.9 GALLONS PER DOSE TO THE GST-6218 SYSTEM.  
 73.9 GAL./23.5 GAL./VERTICAL FOOT IN PUMP BASIN = 3.14 FEET BETWEEN PUMP ON AND PUMP OFF

**PROJECTED PUMP CYCLES:**

DAILY FLOW = 575 GPD  
 FLOW TO LEACHFIELD PER CYCLE = 71.9 GAL. GAL./DOSE (73.9 GAL. INCLUDING DRAIN BACK)  
 TOTAL CYCLES PER DAY = 575 GPD / 71.9 GAL./DOSE = 8 DOSES A DAY  
 PUMP CYCLES ON 8 TIMES A DAY, ONCE EVERY 180 MINUTES  
 PUMP OPERATES @ 56 GAL./MIN @ 19 FT. HEAD  
 73.9 GAL / 56 GAL./MIN = 1.32 MIN.  
 PUMP OPERATES FOR 1.32 MIN. EACH CYCLE

**PROPOSED CMU RETAINING WALLS**

1. CONTRACTOR SHALL SUBMIT RETAINING WALL DESIGNS STAMPED BY A RHODE ISLAND PROFESSIONAL ENGINEER FOR ALL CMU RETAINING WALLS PROPOSED ON SITE.
2. STAMPED DESIGNS MUST BE SUBMITTED AND APPROVED BY ENGINEER PRIOR TO PURCHASING PRODUCTS OR STARTING CONSTRUCTION OF RETAINING WALLS.

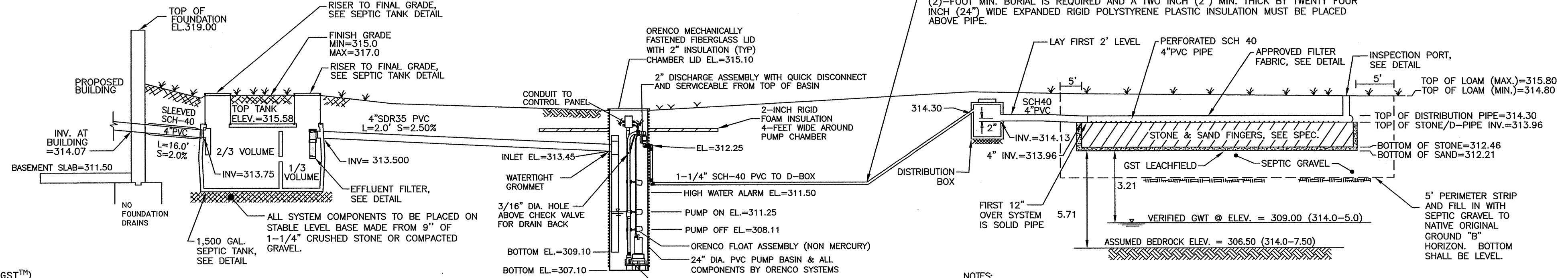
**SEPTIC GRAVEL SPECIFICATION:**

GRAVEL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 3". UP TO 10% MAY BE SIZED BETWEEN 3/4" AND 3". GRAVEL SHALL MEET THE FOLLOWING:

SIZE	% PASSING	NO. TESTS	% PASSING
3/4"	100% (see above)	#40	10%-50%
#4	55%-100%	#100	0%-20%
#10	40%-100%	#200	0%-2%

**LEGEND**

LOT LINE	---
ABUTTER LINE	---
EXISTING CONTOUR	---
TEST HOLE	TH#3
EXISTING STONEWALL	---
PROPOSED CONTOUR	---
PROPOSED SPOT GRADE	X 99.50
PROPOSED DRAIN LINE	D
PROPOSED SEWER LINE	S
PROPOSED WATER SERVICE	W
PROPOSED ELECTRIC SERVICE	E
EXISTING WETLAND FLAG	WF-Y1
APPROX. G.S.	G.S.
B.S. BASEMENT SLAB	G.S.T.
B.H. BULK HEAD	G.S.T.
CB. CATCH BASIN	MAX.
EL./ELEV. ELEVATION	MIN.
EX. EXISTING	PRO.
F.F. FINAL FLOOR	T.O.F.
GAL. GALLON	W.O.



- NOTES:**
1. BOTTOM OF BED ELEVATION IS APPROXIMATE AND REQUIRES FIELD APPROVAL BY ENGINEER; SEE EXCAVATION NOTE.
  2. ALL FILL, ORGANIC HORIZONS, AND A-HORIZONS LOCATED BELOW THE SYSTEM AND WITHIN A 5' PERIMETER SHALL BE REMOVED.
  3. ALL PIPING ON GST SHALL BE 4" DIA. SD35 PERFORATED PVC.
  4. ALL FILL ABOVE UNITS CAN BE NATIVE MATERIAL MEETING THE REQUIREMENTS OF THE OWTS RULES, ASTM C-33 SAND, OR RIDEM SPECIFIED GRAVEL.

TIMOTHY J. BEHAN  
 No. 6278  
 REGISTERED PROFESSIONAL ENGINEER  
 10/03/2023

**COMMONWEALTH**  
 COMMONWEALTH ENGINEERS & CONSULTANTS, INC.  
 400 SMITH STREET  
 PROVIDENCE, RHODE ISLAND 02908  
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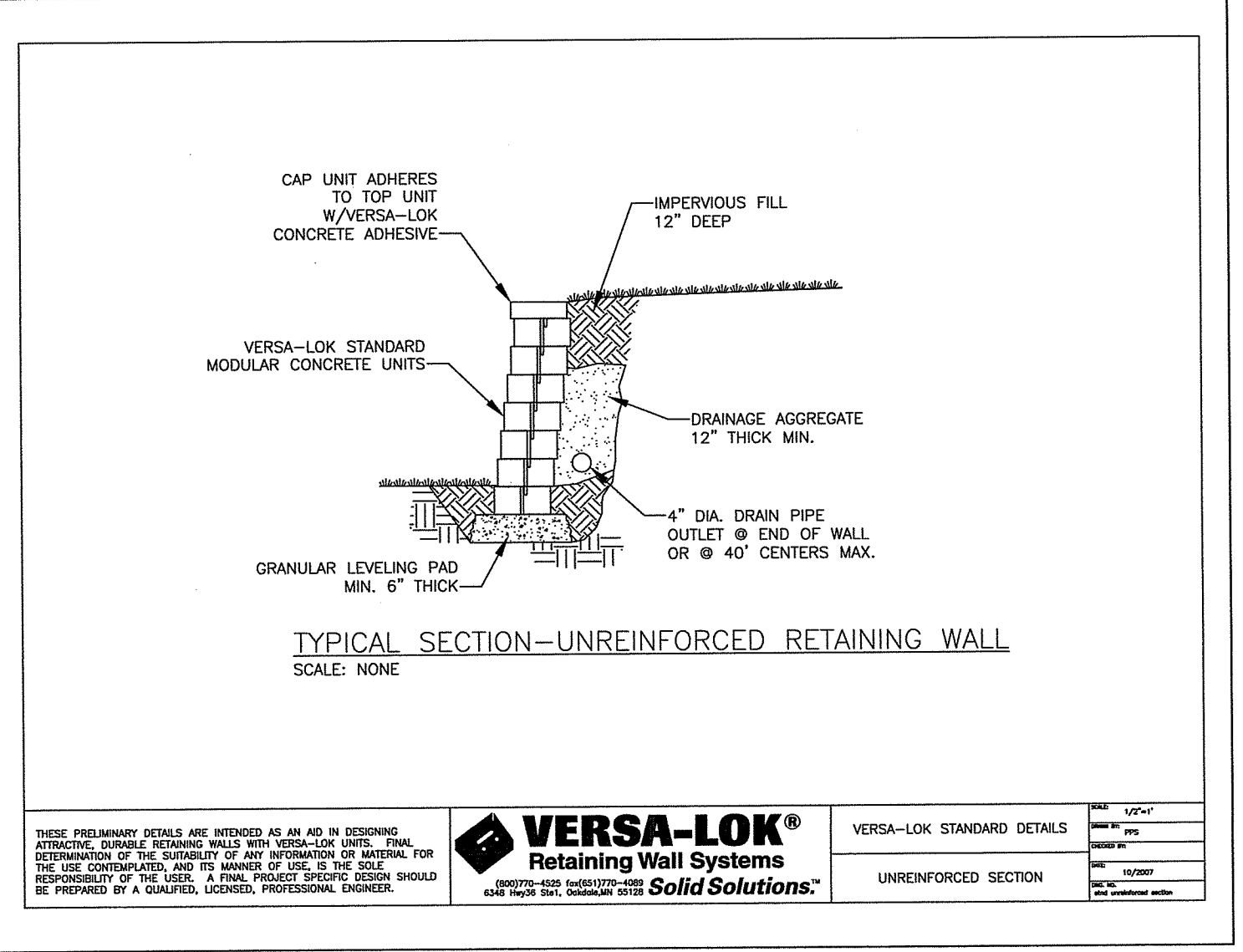
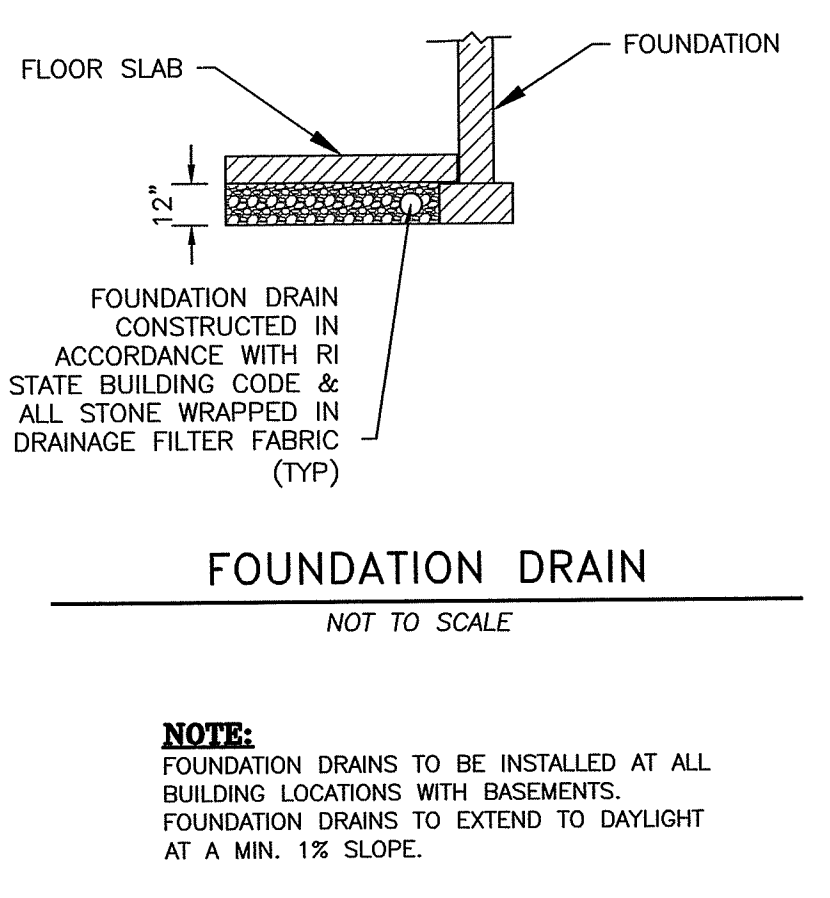
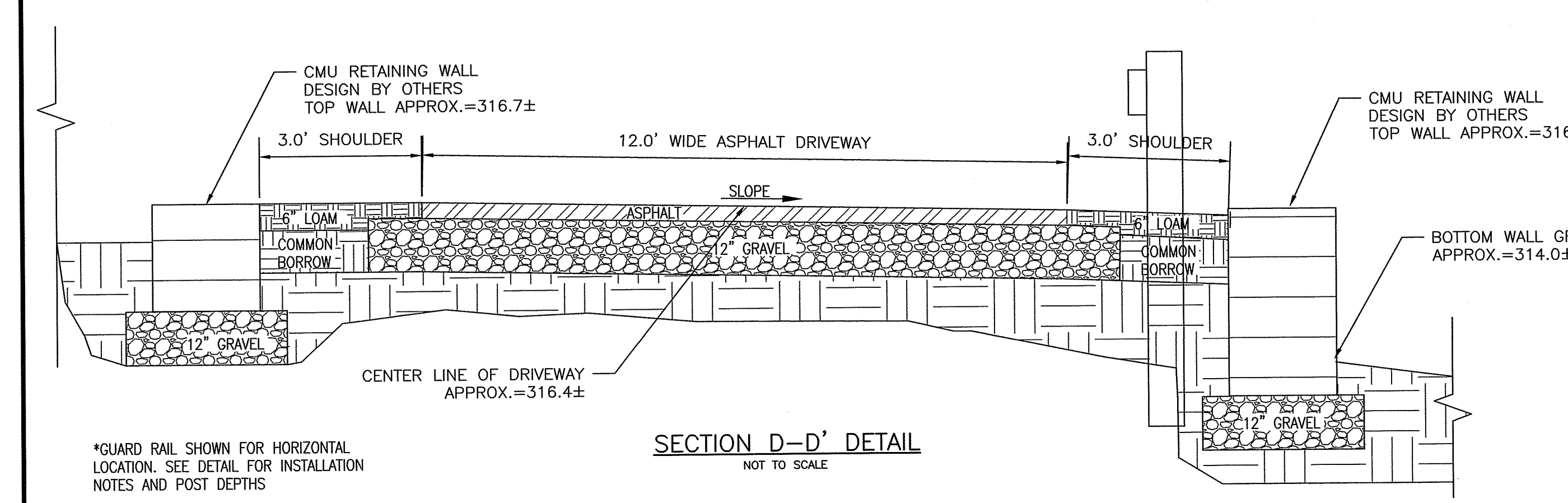
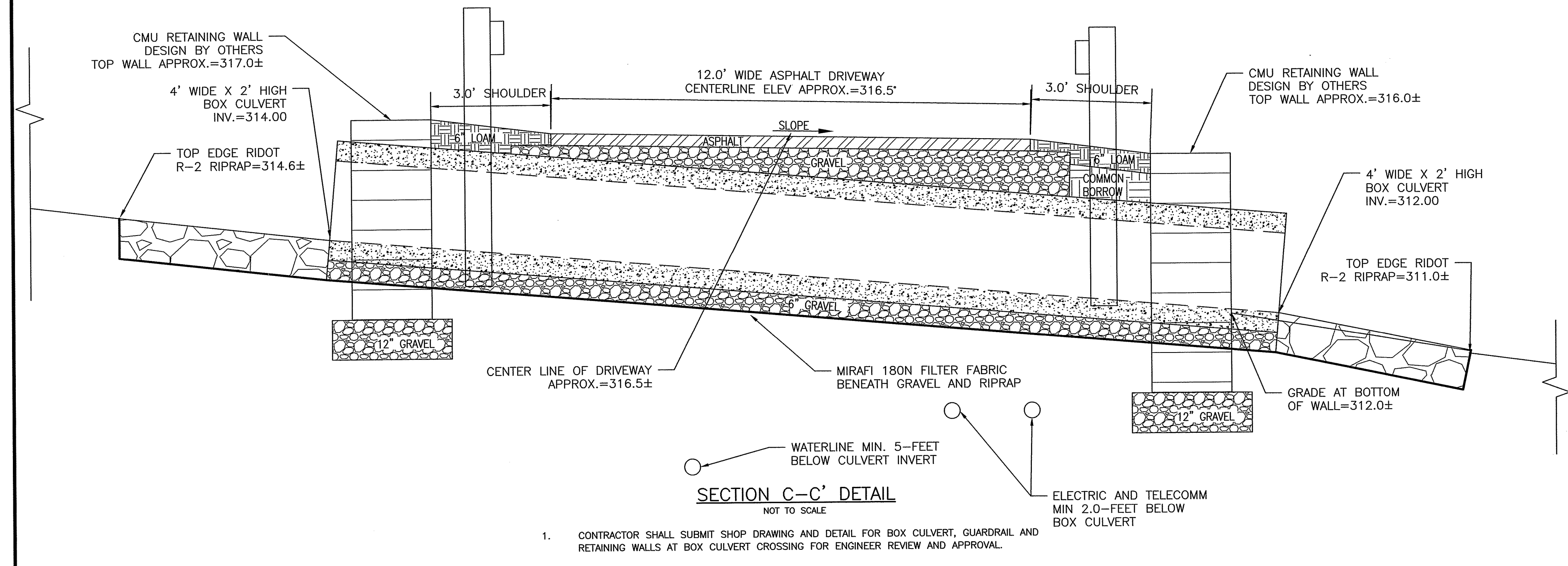
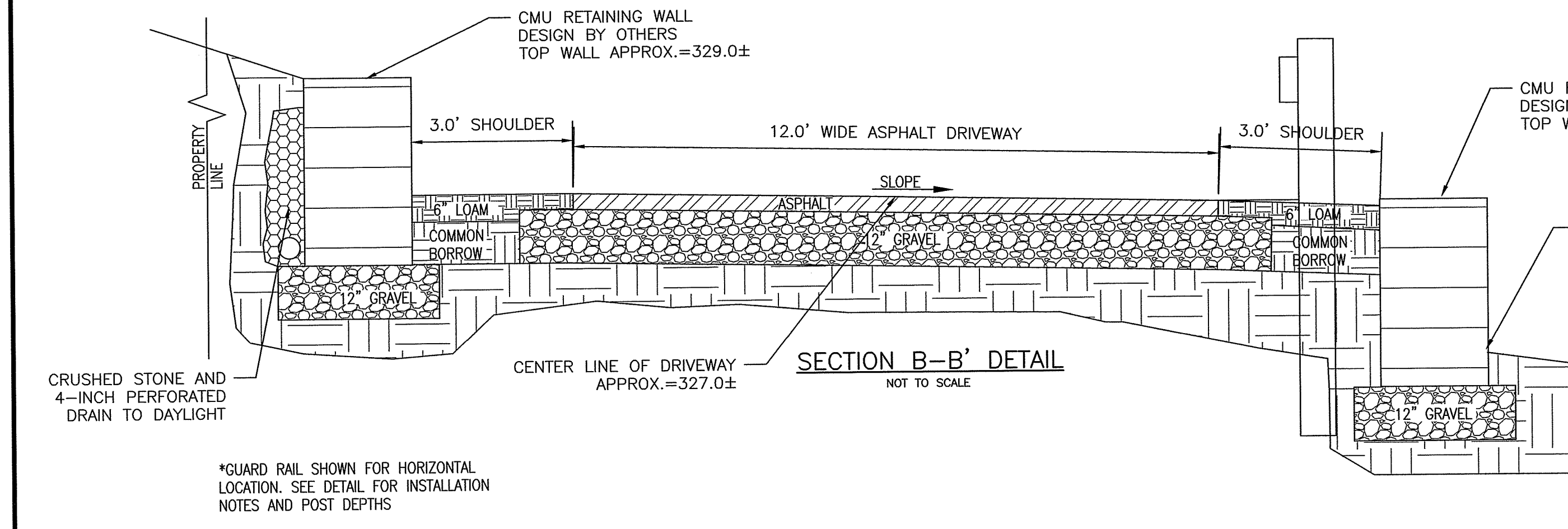
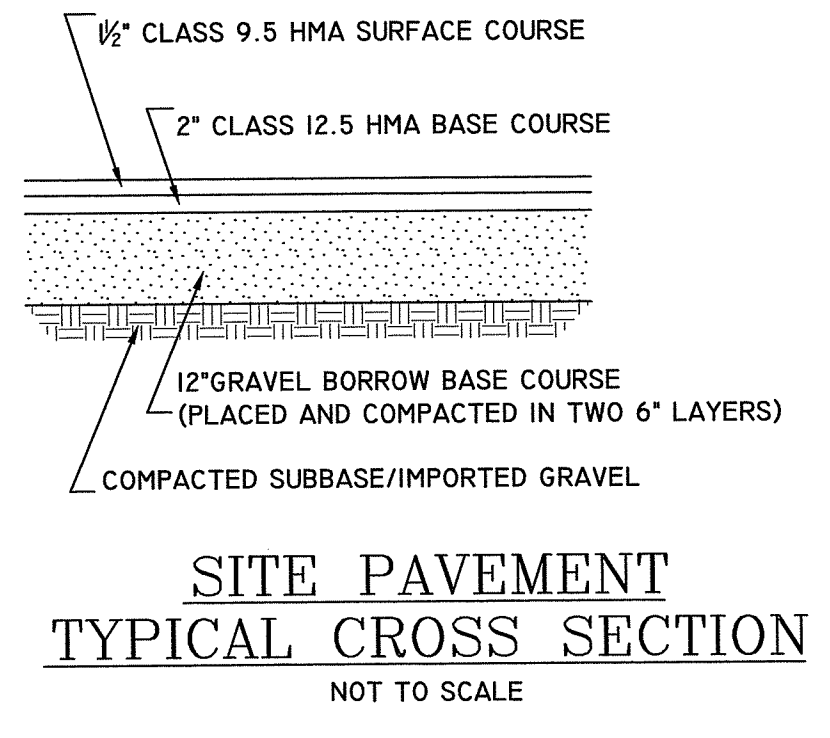
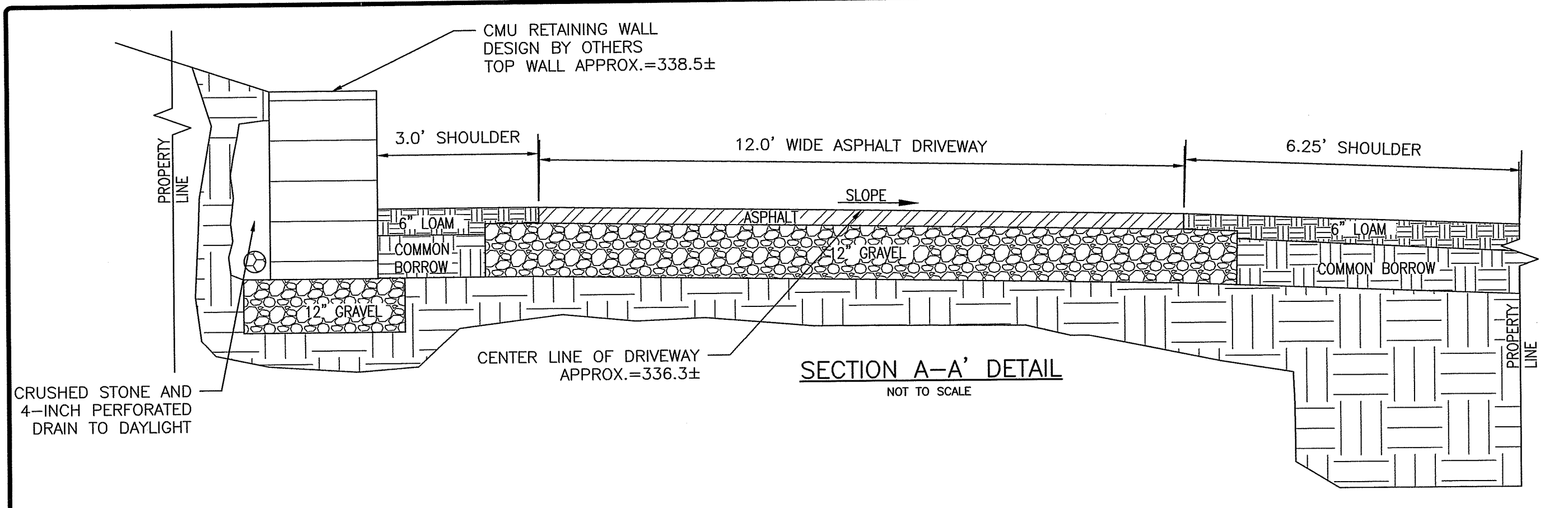
**REVISIONS**

No.	DATE	DRWN	CHKD
1	10-03-23	SMA	TJB

**ONSITE WASTEWATER TREATMENT SYSTEM PLAN**  
 FOR  
**A.P. 12E, LOT 485**  
**10 BEECHCREST ROAD**  
 IN  
**EAST GREENWICH, RHODE ISLAND**

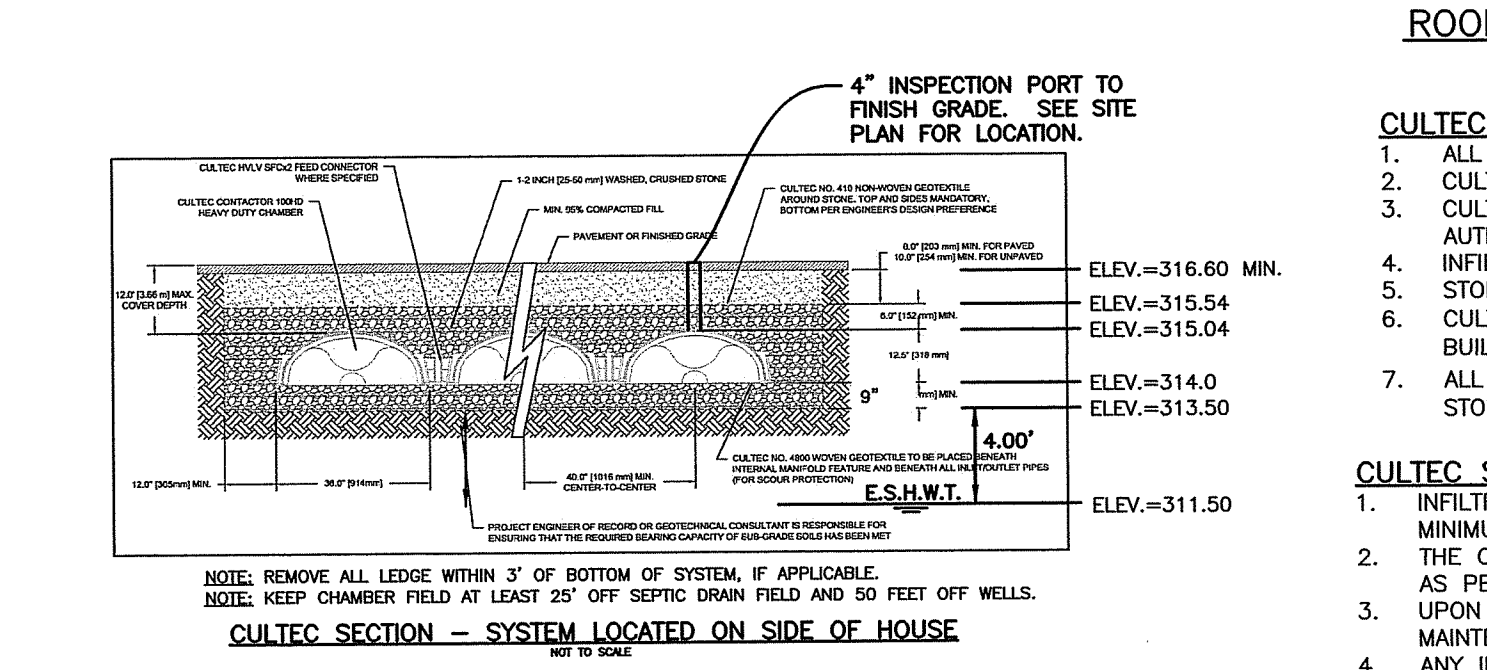
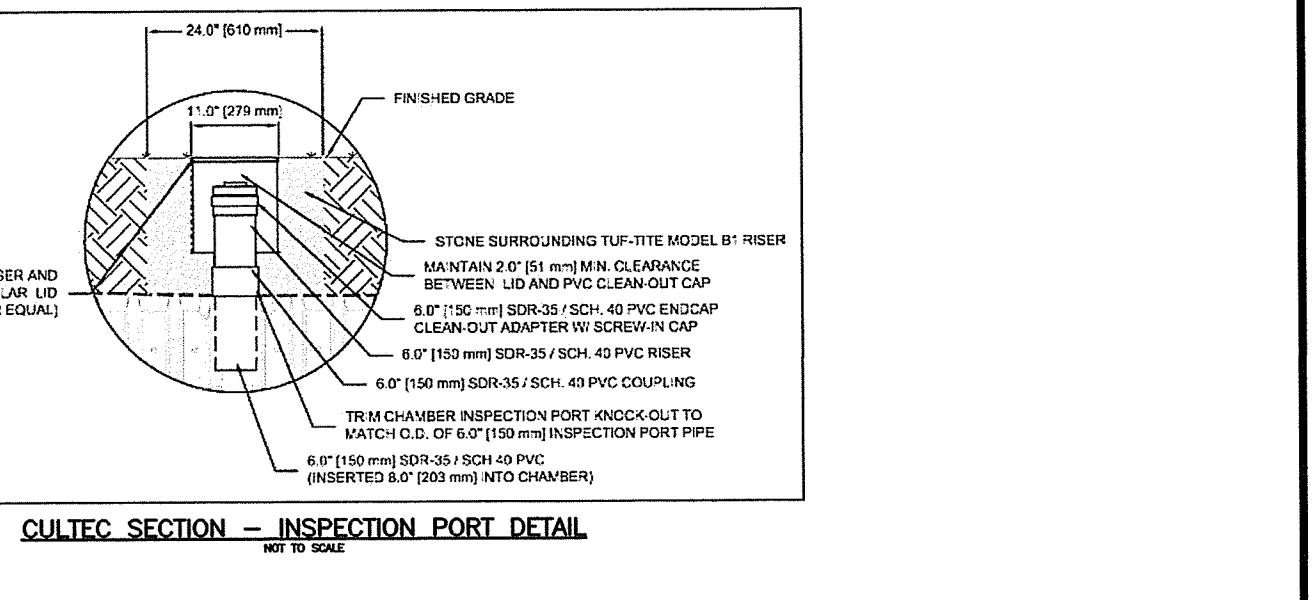
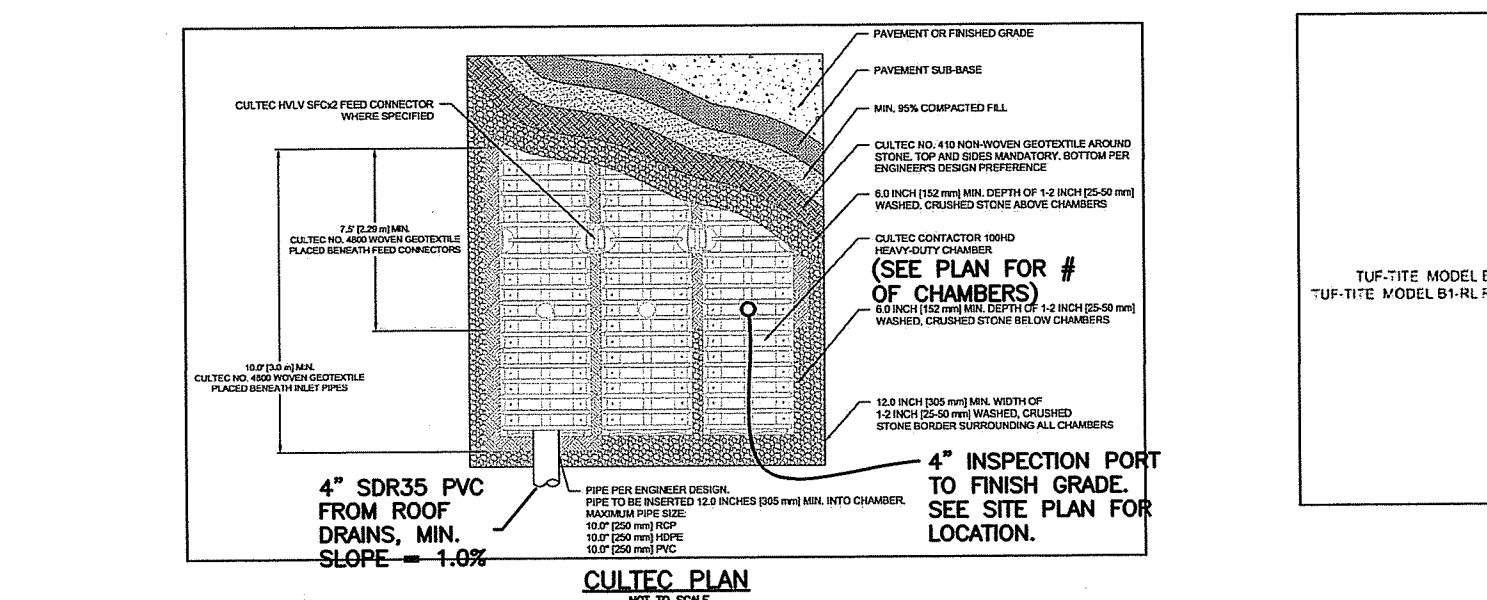
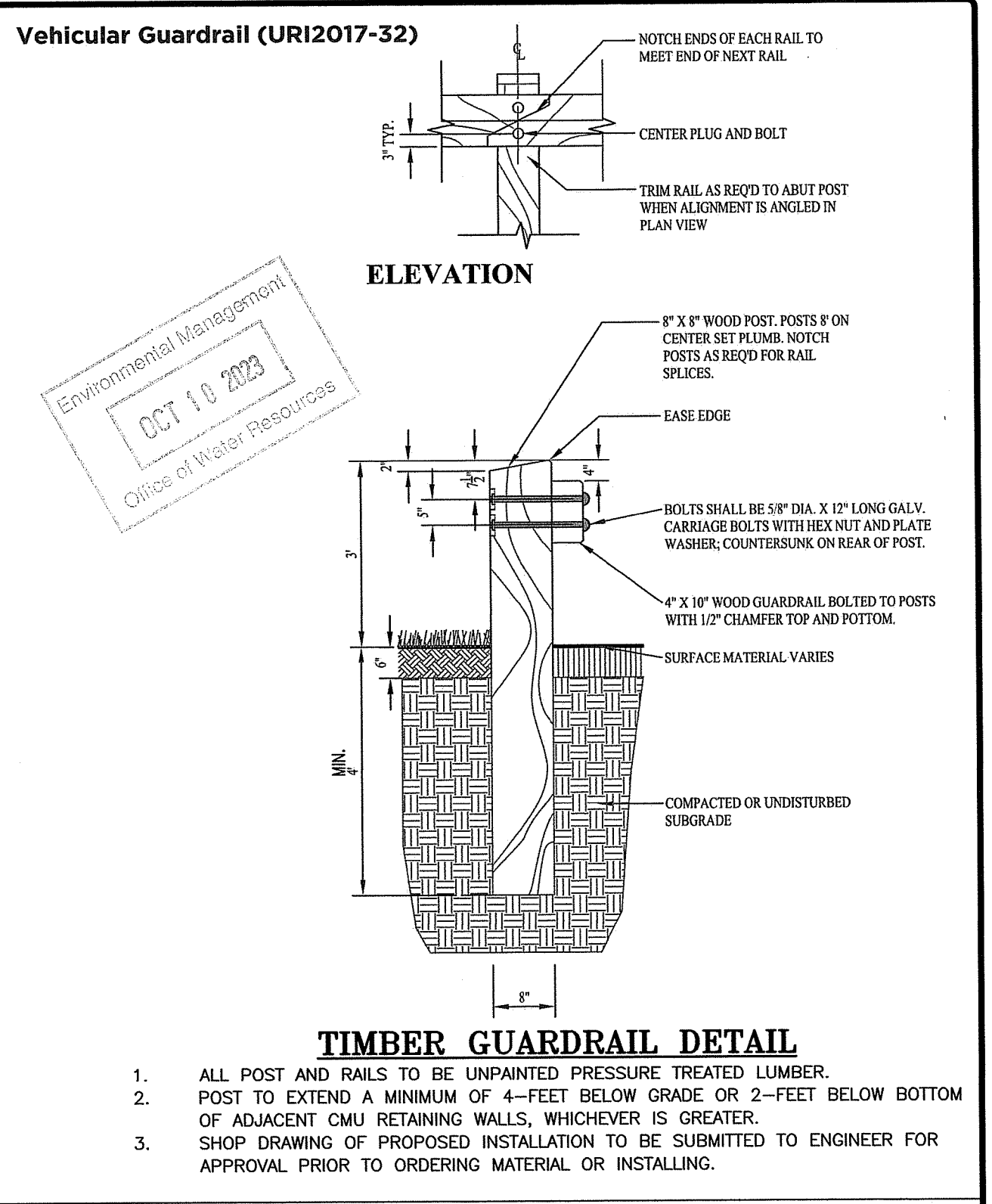
SCALE: AS SHOWN	SHEET NO: 1 OF 3
DRAWN BY: SMA	DESIGN BY: SMA
CHECKED BY: TJB	PROJECT NO: 23014.00





**VERSALOK RETAINING WALL DETAILS SHOWN FOR REFERENCE ONLY**

- CONTRACTOR SHALL SUBMIT RETAINING WALL DESIGNS STAMPED BY A RHODE ISLAND PROFESSIONAL ENGINEER FOR ALL CMU RETAINING WALLS PROPOSED ON SITE.
- STAMPED DESIGNS MUST BE SUBMITTED AND APPROVED BY ENGINEER PRIOR TO PURCHASING PRODUCTS OR STARTING CONSTRUCTION OF RETAINING WALLS



**ROOF INFILTRATION SYSTEM DETAILS & NOTES**

**CULTEC SYSTEM NOTES:**

- ALL WORK PERFORMED IN ACCORDANCE WITH CULTEC RECOMMENDATIONS.
- CULTEC SYSTEM INSTALLATION MUST BE INSPECTED BY THE ENGINEER IF CERTIFICATION IS REQUIRED.
- CULTEC SYSTEMS MAY BE SPLIT INTO TWO SYSTEMS EACH RECEIVING HALF OF THE ROOF AREA WHEN AUTHORIZED BY ENGINEER.
- INFILTRATION SYSTEM CHAMBERS SHALL BE CULTEC CONTRACTOR 100 HD UNITS.
- STONE AROUND INFILTRATORS SHALL BE WASHED, CRUSHED STONE FREE OF FINES.
- CULTEC SYSTEMS SHALL BE LOCATED 25' MIN. FROM OWTS'S, 50' FROM WELLS AND 10' MIN. FROM SLAB BUILDINGS AND PROPERTY LINES.
- ALL PIPE UNDER DRIVEWAYS SHALL BE SDR35 PVC OR APPROVED EQUAL AND BEDDED IN 3\"/>

**CULTEC SYSTEM MAINTENANCE NOTES:**

- INFILTRATOR CHAMBERS SHALL BE PERIODICALLY INSPECTED AND MAINTAINED DURING CONSTRUCTION AND A MINIMUM OF TWICE PER YEAR UPON COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION AND MAINTENANCE OF ALL DRAINAGE FACILITIES, AS PER THEIR RESPECTIVE PROGRAMS, UNTIL FINAL ACCEPTANCE BY THE OWNER.
- UPON FINAL ACCEPTANCE, THE OWNER SHALL BE RESPONSIBLE FOR ALL DRAINAGE INSPECTION AND MAINTENANCE.
- ANY INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE STORMWATER DISPOSAL SYSTEM REQUIRES IMMEDIATE NOTIFICATION OF THE RIDEM-UIIC PROGRAM.
- ANY INCIDENT OF GROUNDWATER CONTAMINATION RESULTING FROM THE IMPROPER DISCHARGE OF CONTAMINANTS TO THE DISPOSAL SYSTEM SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. THE RIDEM WILL REMOVE THE PROPERTY OWNER TO REMEDIATE ANY INCIDENTS THAT MAY ADVERSELY IMPACT THE QUALITY OF THE RIVER/ENVIRONMENTAL MANAGEMENT.
- VEHICLE TRAFFIC OVER THE SYSTEM IS NOT PERMITTED.

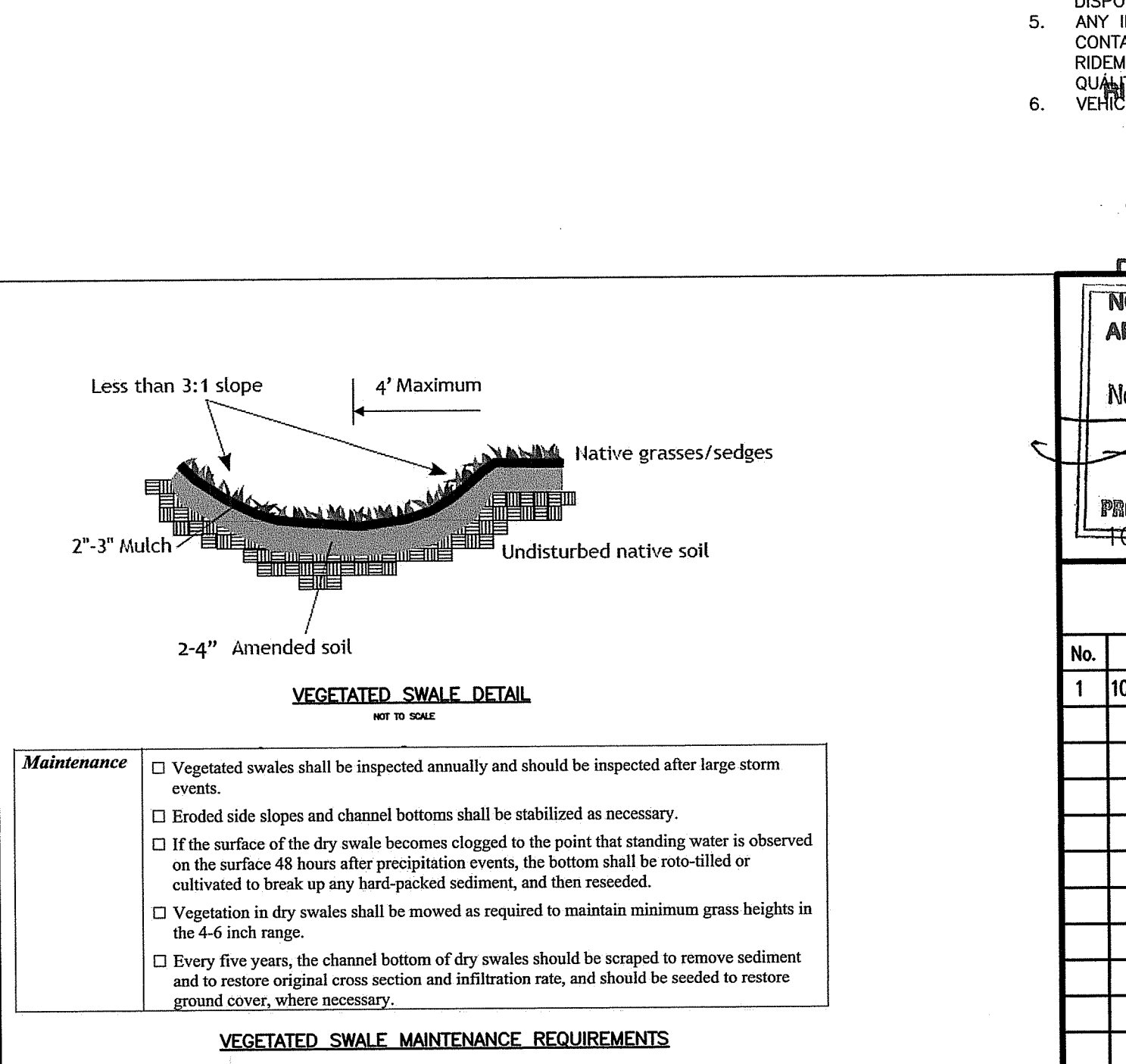
**OFFICE OF WATER RESOURCES**

**FRESHWATER WETLANDS PROGRAM**

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATE: OCT 19 2023 FILE # 23-0106

OWNER/APPLICANT: AHMAD GARAKANI, 1145 SOUTH ROAD, EAST GREENWICH, RI 02818



**VEGETATED SWALE MAINTENANCE REQUIREMENTS**

**Maintenance**

- Vegetated swales shall be inspected annually and should be inspected after large storm events.
- Eroded side slopes and channel bottoms shall be stabilized as necessary.
- If the surface of the dry swale becomes clogged to the point that standing water is observed on the surface 48 hours after precipitation events, the bottom shall be roto-tilled or cultivated to break up any hard-packed sediment, and then reseeded.
- Vegetation in dry swales shall be mowed as required to maintain minimum grass heights in the 4-6 inch range.
- Every five years, the channel bottom of dry swales should be scraped to remove sediment and to restore original cross section and infiltration rate, and should be seeded to restore ground cover, where necessary.

**NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL**

**APPROVED PLANS MUST BE AT CONSTRUCTION SITE**

No. 6278 REGISTERED PROFESSIONAL ENGINEER 10/03/2023

**COMMONWEALTH ENGINEERS & CONSULTANTS, INC.**

400 SMITH STREET, PROVIDENCE, RHODE ISLAND 02908 (401) 273-6600

**ONSITE WASTEWATER TREATMENT SYSTEM PLAN**

FOR A.P. 12E, LOT 485, 10 BEECHCREST ROAD, EAST GREENWICH, RHODE ISLAND

SCALE: AS SHOWN SHEET NO: 3 OF 3

DRAWN BY: SMA DESIGN BY: SMA CHECKED BY: TJB

DATE: MAY 2023 PROJECT NO: 23014.00

**REVISIONS**

No.	DATE	DRWN	CHKD
1	10-03-23	SMA	TJB