

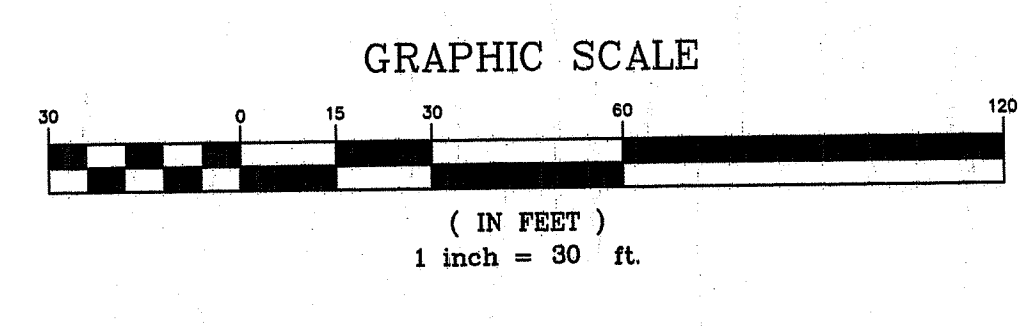
LOCUS MAP

GENERAL NOTES:

1. THE PROPERTY "IS NOT" SUBJECT TO RHODE ISLAND COASTAL RESOURCES MANAGEMENT COUNCIL REVIEW.
2. ALL PRIVATE AND PUBLIC DRINKING WATER LINES WITHIN 50 FEET OF THE PROPOSED ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) ARE SHOWN, UNLESS OTHERWISE NOTED ON SITE PLAN.
3. THERE ARE NO PUBLIC SEWERS AVAILABLE TO THE PROPERTY WITHIN 200 FEET UNLESS NOTED ON SITE PLAN.
4. ALL EXISTING AND PROPOSED PRIVATE DRINKING WATER WELLS, &/OR THERE RADI, ARE SHOWN WITHIN 200' OF THE PROPOSED OWTS COMPONENTS SHOWN ON THIS PLAN.
5. ALL EXISTING AND PROPOSED WELLS SERVING NON-POTABLE USES WITHIN 100 FEET OF THE OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON THE SITE PLAN.
6. ALL EXISTING AND PROPOSED PUBLIC DRINKING WATER WELLS WITHIN 500 FEET OF THE PROPOSED OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON THE SITE PLAN. THE CONSTRUCTION DETERMINATION OF SAID WELLS IS IDENTIFIED ON THE SITE PLAN, UNLESS OTHERWISE NOTED.
7. ALL WATERCOURSES, WETLANDS, AND DRAINS WITHIN 200 FEET OF THE PROPOSED OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON SITE PLAN.
8. ALL STORM AND SUBSURFACE DRAINS WITHIN 200 FEET OF THE PROPOSED OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON SITE PLAN. THE ULTIMATE DISCHARGE OF SAID DRAINS ARE IDENTIFIED ON THE SITE PLANS.
9. THE OWTS "IS NOT" LOCATED WITHIN THE WATERSHED OF A PUBLIC WATER SUPPLY OR OTHER CRITICAL RESOURCE AREA.
10. ALL EXISTING OWTS ON ADJUTING PROPERTIES WITHIN 200 FEET OF A PROPOSED WELL TO SERVICE THE SUBJECT PROPERTY ARE IDENTIFIED ON THE SITE PLAN, UNLESS OTHERWISE NOTED.
11. THE SUBJECT PROPERTY IS NOT LOCATED WITHIN AN IDENTIFIED FLOOD ZONE.
12. IF A PROPOSED WELL IS REQUIRED TO SERVICE THE WATER REQUIREMENTS FOR THE SUBJECT PROPERTY, SAID WELL "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".
13. OWTS DESIGN DATA:
 - 4 BEDROOM DESIGN - 115 GALLONS PER BEDROOM - TOTAL DESIGN FLOW = 460 GPD
 - BASED ON THE SOIL EVALUATION, THE MOST RESTRICTIVE SOIL DESIGN CATEGORY IS 7.
 - THE SOIL APPLICATION RATE = 2.1 GALS/SQ FT/DAY
 - TOTAL REQUIRED LEACHING AREA = 219.05 SQUARE FEET
 - TOTAL PROVIDED LEACHING AREA = 243.75 SQUARE FEET
 - LEACHFIELD: 3 ROWS OF GEOMAT 3900 @ 25' LONG.
14. OWTS GENERAL CONSTRUCTION NOTES:
 - ALL PIPING SHALL BE 4" PVC SCH 40 OR EQUIVALENT, UNLESS OTHERWISE NOTED
 - ALL PIPE SLOPES SHALL BE A MINIMUM OF 1% AND A MAXIMUM OF 5%, REFER TO THE PROFILE
 - THE SEPTIC TANK SHALL BE A CONCRETE TANK WITH THE CAPACITY AS STATED ON THE SITE PLAN
 - THE SEPTIC TANK INLET SHALL EXTEND 1' BELOW THE FLOW LINE AND THE OUTLET TEE SHALL EXTEND 1/3 THE DEPTH BELOW THE FLOW LINE.
 - THE SEPTIC TANK SHALL BE FITTED WITH TWO ACCESS MANHOLE RISERS NOT LESS THAN 20"
 - THE D-BOX, IF REQUIRED, SHALL HAVE A MINIMUM OF 3 SQUARE FEET OF BOTTOM AREA AND BE CAPABLE OF CARRYING A MINIMUM 300 PSF LOAD WITH MINIMAL SIDEWALL DEFLECTION.
 - LEACHFIELD STONE, IF USED, SHALL BE 3/4" TO 2" DOUBLE WASHED STONE, FREE OF ALL DEBRIS.
 - SURFACE GRADES WITHIN 5 FEET OF THE LEACHFIELD SHALL NOT BE LOWER THAN ELEVATION 100.92'. AT THE 10 FEET DISTANCE FROM THE LEACHFIELD, THE SLOPE SHALL BE A MINIMUM OF 3H:1V TO MATCH INTO EXISTING GRADES.
 - THE LEACHFIELD AND THE AREA WITHIN 10 FEET FOR THE LEACHFIELD SHALL BE STRIPPED OF ALL TREES, BRUSH, STUMPS AND BOULDERS. THE SIDES AND BOTTOM OF THE EXCAVATION SHALL NOT BE COMPACTED OR SHEARED AND THE BOTTOM SHALL BE SCORIFIED PRIOR TO LEACHFIELD PLACEMENT TO A MINIMUM DEPTH OF 100.92'.
 - REFER TO THE SITE PLAN FOR LEACHFIELD STRIP REQUIREMENTS.
 - THE FINISH GRADE OVER THE SEPTIC TANK SHALL BE GRADED TO DIVERT SURFACE WATER RUNOFF AWAY FROM THE TANK.
 - IF A DRIVEWAY OR PAVEMENT IS TO BE LOCATED NEAR THE PROPOSED OWTS, A FENCE OR CURBING SHALL BE INSTALLED AROUND THE SYSTEM IN THE AREA OF THE PAVEMENT TO PREVENT VEHICULAR TRAFFIC FROM DRIVING ONTO THE SYSTEM.
 - CONTRACTOR TO OBSERVE & CONFIRM ALL EXISTING PLUMBING INSIDE THE DWELLING WILL BE TIED INTO THE PROPOSED SEPTIC TANK SHOWN ON THIS PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY WHERE ALL EXISTING PLUMBING EXITS THE BUILDING(S), SHOWN ON THIS PLAN, PRIOR TO INSTALLING ANY OWTS COMPONENTS. NEW PLUMBING, INSIDE THE BUILDING(S) SHOWN ON THIS PLAN, MAY BE REQUIRED AS PART OF THIS OWTS INSTALLATION.
15. THIS PLAN CONFORMS TO A CLASS "III" PROPERTY LINE & A CLASS "III" TOPOGRAPHY AS ADOPTED BY THE RI BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS SURVEY IS NOT VALID FOR ANY OTHER PURPOSE, OTHER THAN SHOWN ON THIS PLAN, WITHOUT WRITTEN CONSENT.
16. GENERAL OWNER NOTES:
 - FOOD/GARAGE GRINDERS INSIDE DWELLING AND DISPOSAL OF GREASES, OILS, AND OR FATS ARE PROHIBITED.
 - VEHICLE PACKING OR TRAFFIC OVER THE OWTS COMPONENTS IS PROHIBITED.
 - BACKWASH WATER FROM A WATER TREATMENT SYSTEM WAS NOT TAKEN INTO CONSIDERATION WITH THE DESIGN OF THIS OWTS. WATER TREATMENT SYSTEM DISCHARGE TO THIS OWTS IS PROHIBITED.
 - THE SEPTIC TANK SHALL BE PUMPED WHEN DEEMED NECESSARY BY OPERATIONS & MAINTENANCE PERSONNEL OR LICENSED SEPTIC INSPECTOR.
17. INSTALLER TO PROVIDE DESIGNER W/ ALL COPIES OF MATERIALS PURCHASED & USED ON INSTALLING THIS OWTS PRIOR TO ISSUANCE OF CERTIFICATE OF CONSTRUCTION.
18. THERE ARE NO EXISTING OR PROPOSED SUBSURFACE DRAINS WITHIN 25' OF THE PROPOSED OWTS COMPONENTS SHOWN ON THIS PLAN.
19. REFERENCE RIDEM SUBDIVISION APP.# 522-25 FOR MORE INFO.
20. REFERENCE RIDEM WETLANDS P.O. APP.# 13-0200 FOR WETLAND EDGE VERIFICATION. PER CONVERSATION W/ RIDEM WETLANDS DIVISION, VERIFIED EDGE HAS BEEN ELECTRONICALLY INSERTED INTO THIS DRAWING FROM REFERENCE #21.
21. REFERENCE PLAN ENTITLED "FLEXIBLE DESIGN MASTER PLAN, THE PLANS, LOT 58 ASSESSOR PLAT 9, NEW SHOREHAM, RI, OWNED BY WILLIAM MERKLER & SHANNON MACALON, 6/26/12, REVISED 11/12/13, 1"-80", HILBERN LAND SURVEYING."
22. REFERENCE RIDEM OWTS APP.# 2022-1083 & WETLANDS APP.#20-0193 FOR MORE INFO.
23. THIS PLAN CONSTITUTES A RE-DESIGN &/OR MODIFICATION TO THE 2 PERMITS APPROVED IN NOTE 22. THE SQUARE FOOTAGE OF THE PROPOSED IMPERVIOUS SURFACE, NUMBER OF BEDROOMS, & OWTS HAS BEEN REDUCED. THE DESIGNER HAS USED THE PREVIOUS STORMWATER DESIGN INFO FOR THIS PLAN.

LEGEND

| | |
|--|-------------------------------|
| | STONE BOUND FOUND |
| | GRANITE BOUND DRILLHOLE FOUND |
| | IRON ROD FOUND |
| | UTILITY POLE |
| | WATER SHUTOFF |
| | DRILLHOLE FOUND |
| | CESSPOOL/SEPTIC TANK LID |
| | EXIST. WELL |
| | STONE WALL |
| | PROPERTY LINE |
| | APPROX. PROPERTY LINE |
| | PROP. SILT FENCE |
| | CONTOUR (ASSUMED DATUM) |
| | PROPOSED WATERLINE |
| | PROPOSED ELECTRICLINE |
| | EXISTING TREE LINE |
| | SOIL EVALUATION |
| | L.O.D. FIELD STAKE |



RA-ZONE DATA

BLDG. SETBACKS:
FRONT = 50'
SIDES = 50'
REAR = 50'
HEIGHT = 35' (FROM AVG. GRADE)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
OWTS & FRESHWATER WETLANDS
JOINT PERMIT APPROVAL

OWTS# 2022-1083 RWN# 210277
APPROVED BY [Signature] DATE 10/12/21
No Changes Allowed Without RIDEM Approval
Approved Plans/Permit Must Be Kept at Construction Site

PLAN VIEW

SCALE: 1" = 30'

MAX. PRINCIPAL BUILDING COVERAGE : 3% (3,655 S.F.) -- PROP. PRINCIPAL COVERAGE: = 1.6% (1,999 S.F.)
MAX. BUILDINGS (ALL) COVERAGE : 4% (4,873 S.F.) -- PROP. ALL BUILDING COVERAGE = 2.1% (2,551 S.F.)
MAX. LOT COVERAGE: 10% (12,183 S.F.) -- PROP. MAX. LOT COVERAGE = 3.2% (3,991 S.F.)

ONSITE WASTEWATER TREATMENT SYSTEM NEW RE-DESIGN

A.P. 9, LOT 58-2
PAYNE ROAD
NEW SHOREHAM, RHODE ISLAND
Prepared For:
ROD MITCHELL

MARCUS CHANNARA
No. 1871
PROFESSIONAL LAND SURVEYOR

ATLAS LAND SURVEYING, LLC
PROPERTY & CONSTRUCTION SURVEYING & MAPPING

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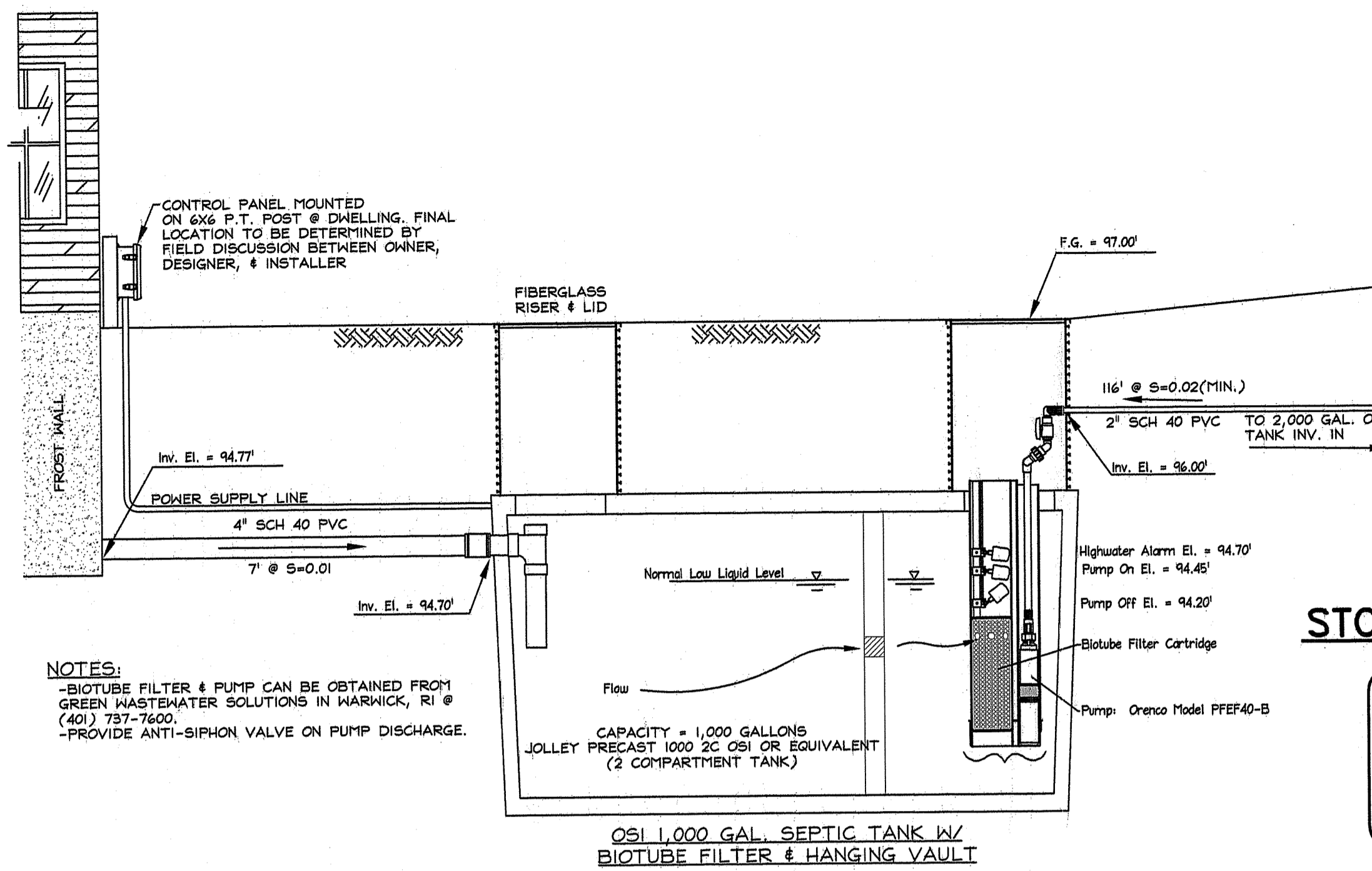
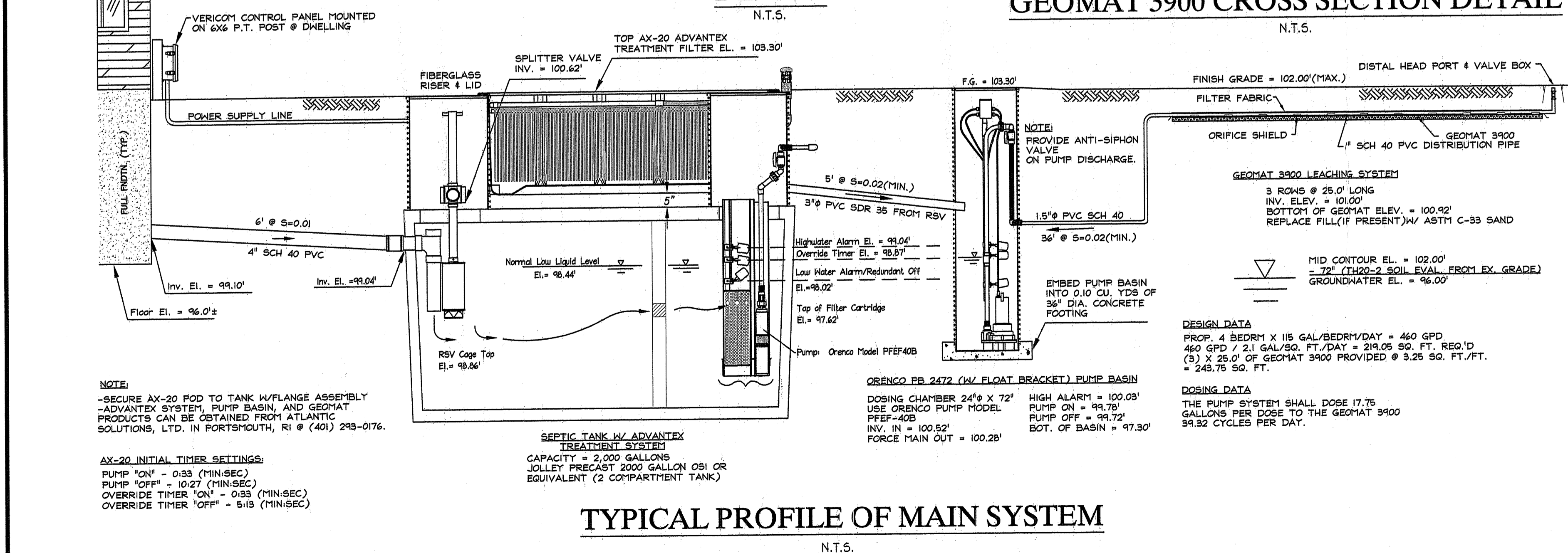
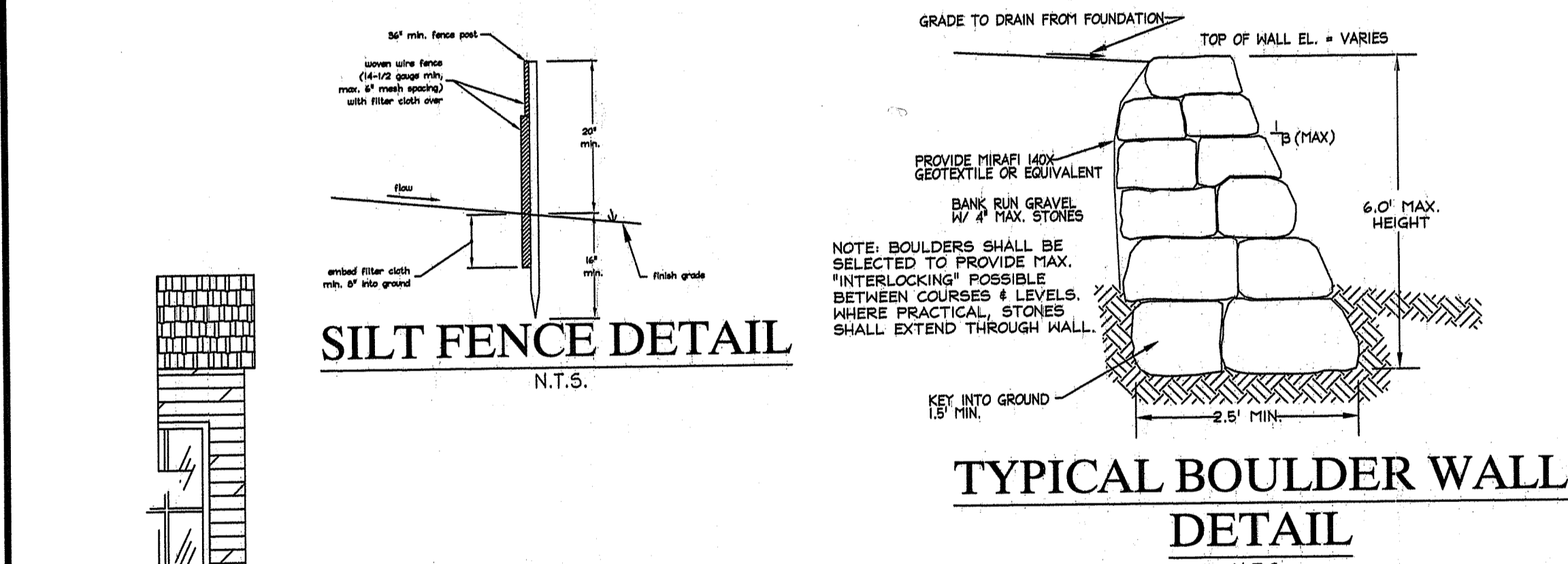
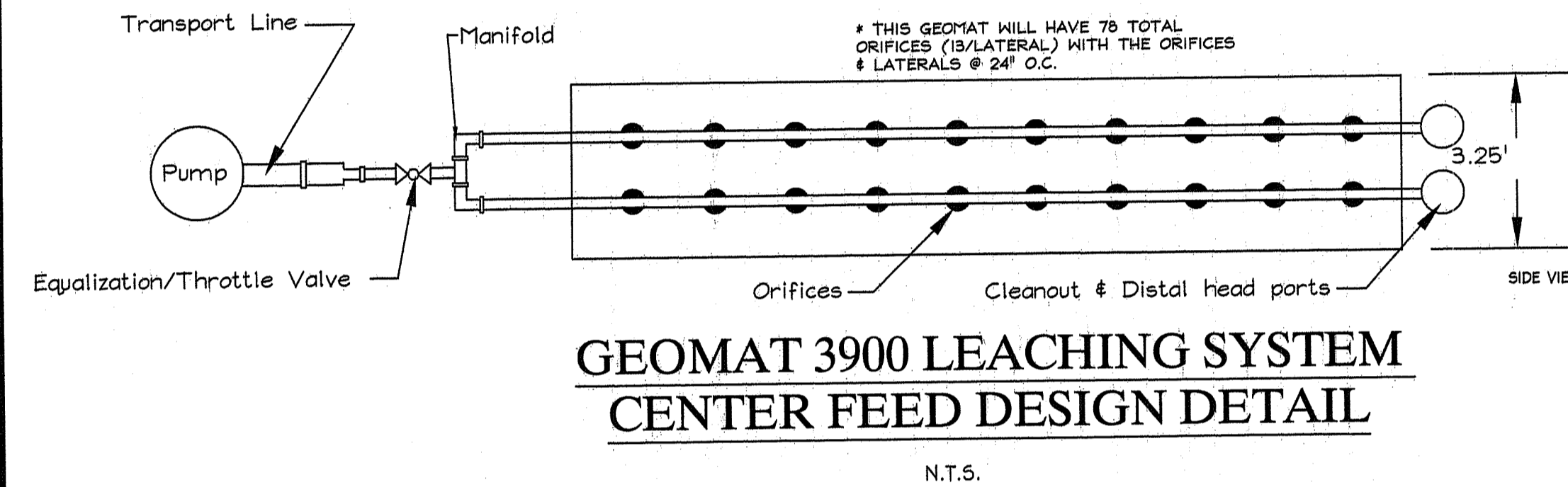
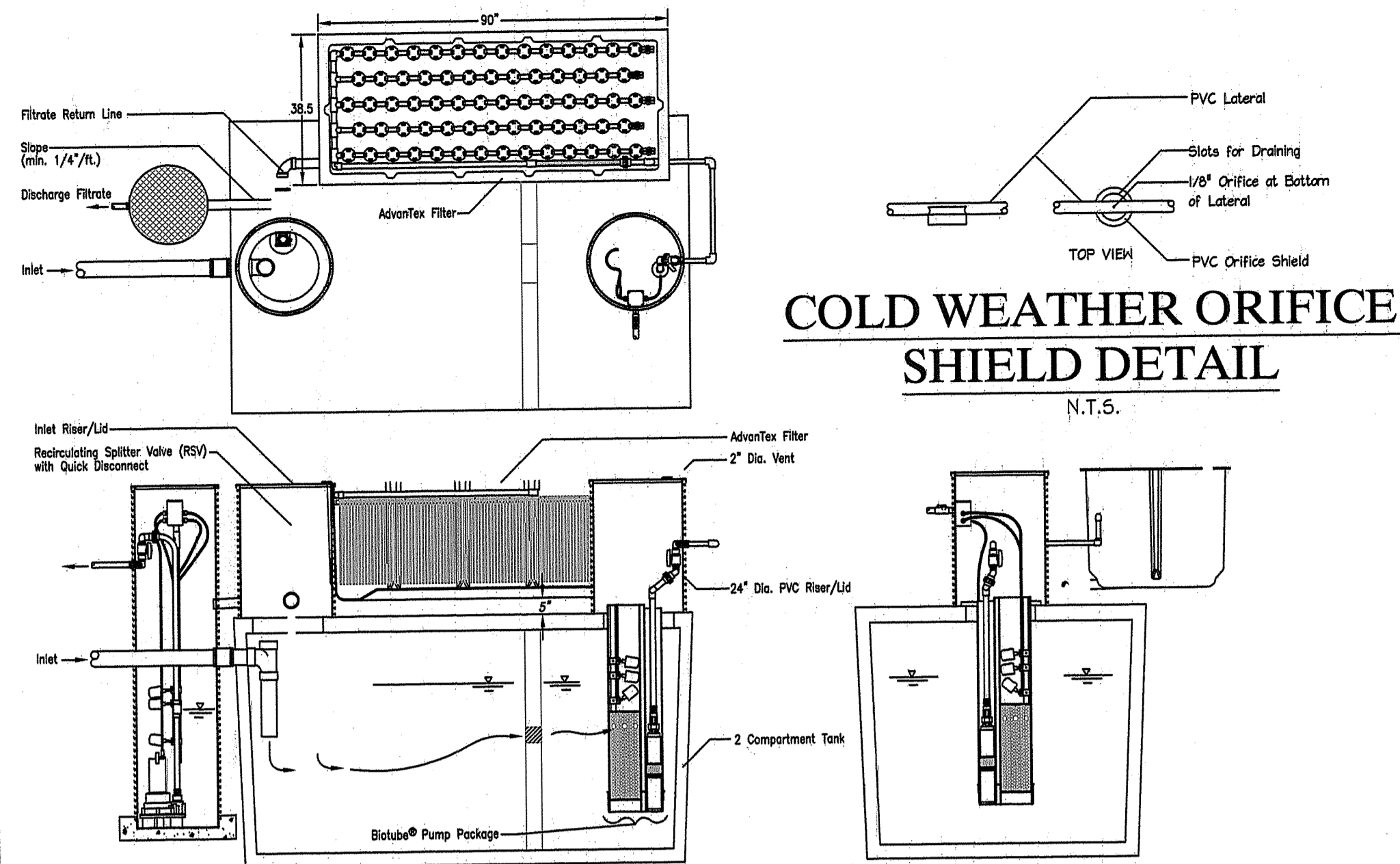
REVISION: SEPT. 2020
OCT. 2020
JULY 2021
SEPT. 2021

DATE: AUG. 2020
DRAWN BY: KRC
SCALE: 1" = 30'

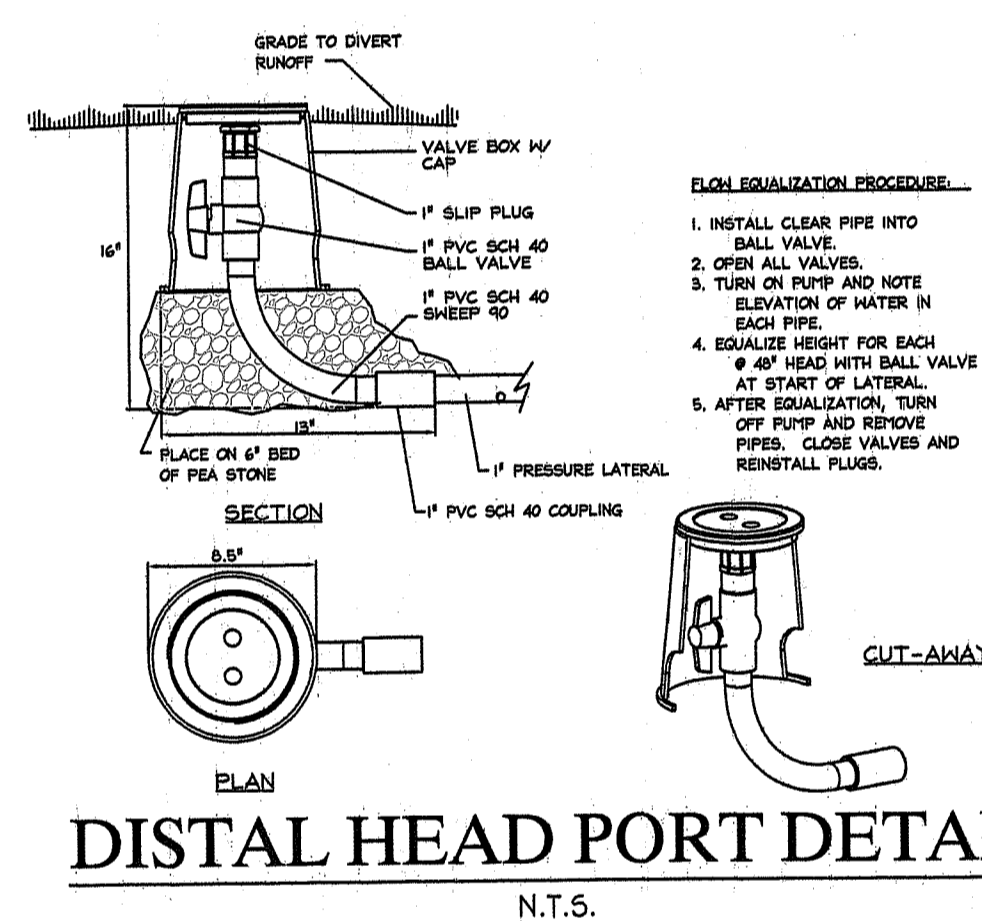
SHEET 1
OF 1 SHEETS 2

JOB NO. MITCHELL
DWG. NO. MITCHELL-OWTS

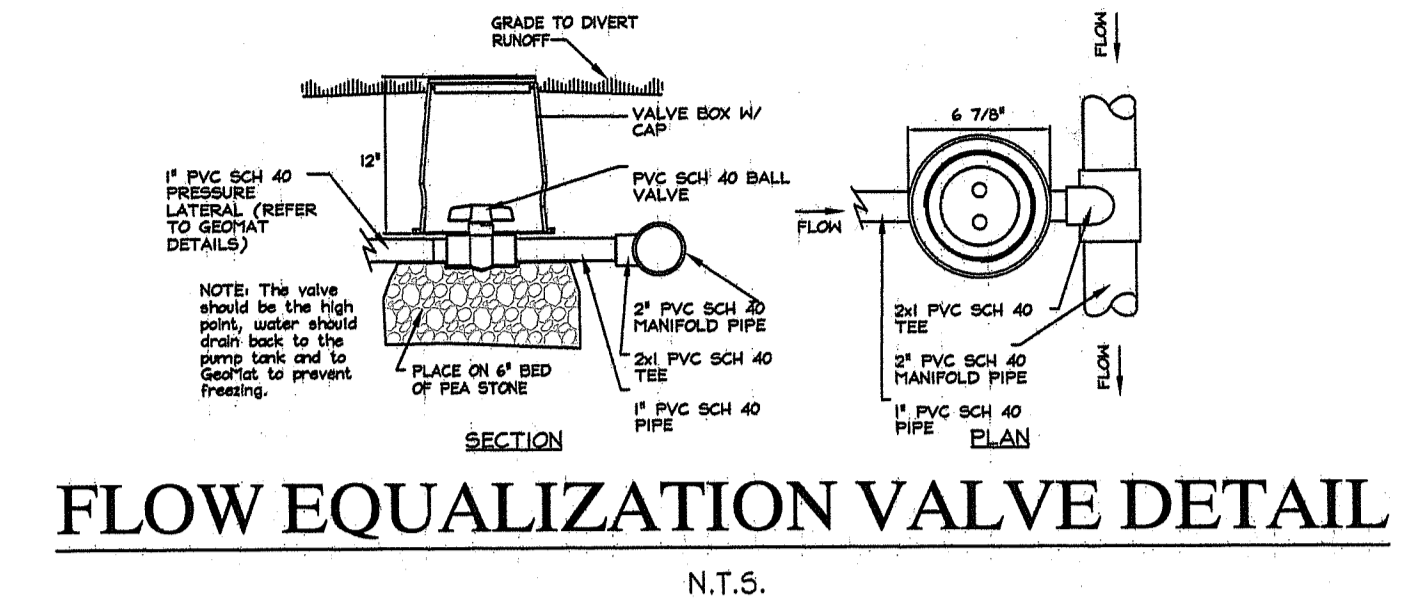
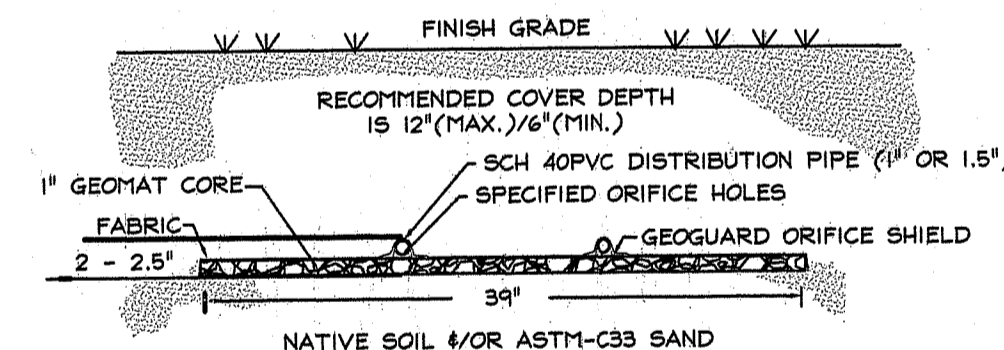
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TYPICAL PROFILE OF ACCESSORY SYSTEM
N.T.S.

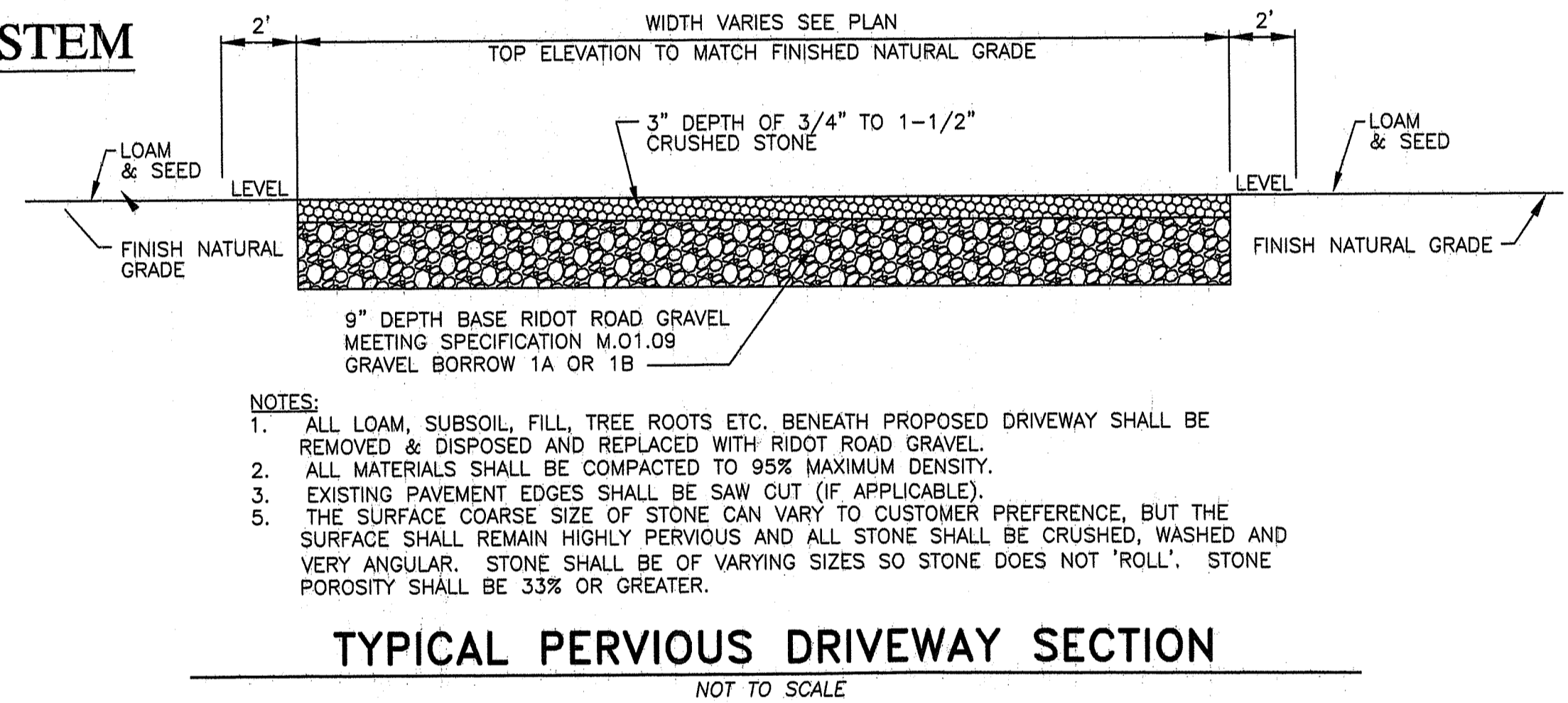


GEOMAT 3900 CROSS SECTION DETAIL
N.T.S.

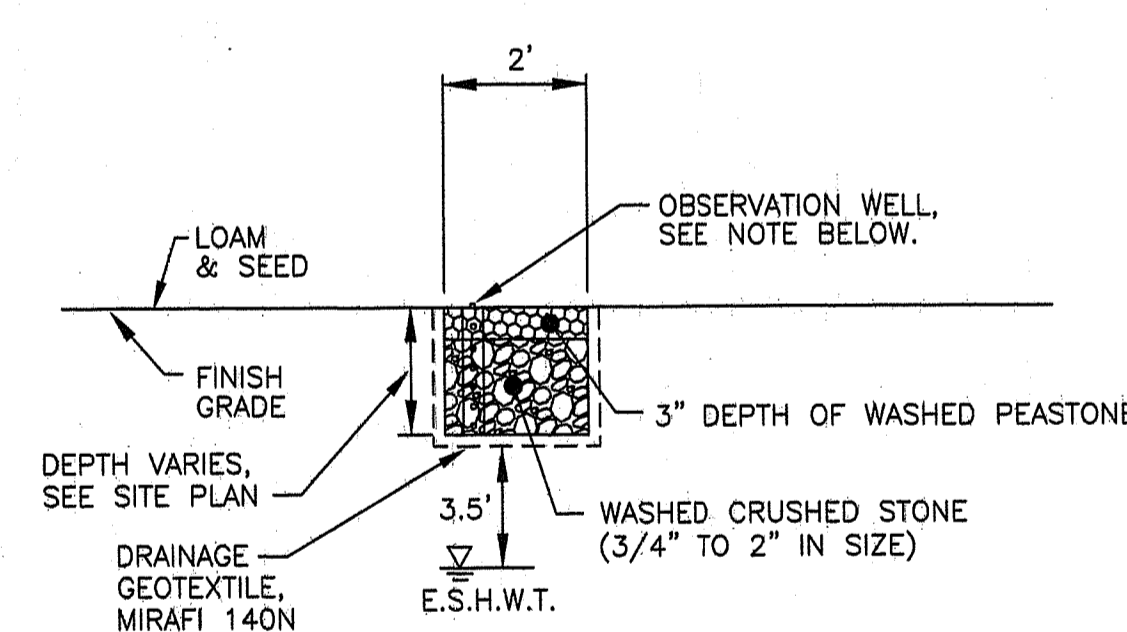


STORMWATER DESIGN & DETAILS BY:

COMMONWEALTH ENGINEERS & CONSULTANTS, INC.
400 SMITH STREET
PROVIDENCE, RHODE ISLAND 02908
401-273-6600



TYPICAL PERVIOUS DRIVEWAY SECTION
NOT TO SCALE



- NOTES:**
1. AN OBSERVATION WELL SHALL BE INSTALLED IN EACH TRENCH, CONSISTING OF AN ANCHORED 4 INCH DIAMETER PERFORATED PVC PIPE WITH A SCREW TOP CAP INSTALLED FLUSH WITH FINISH GRADE.
 2. BOTTOM OF TRENCH SHALL BE LOCATED IN ORIGINAL UNDISTURBED SOIL.
 3. CARE MUST BE TAKEN TO PREVENT THE INFILTRATION AREA FROM COMPACTION BY MARKING OFF THE LOCATION BEFORE THE START OF CONSTRUCTION AT THE SITE AND CONSTRUCTING THE INFILTRATION TRENCH LAST.
 4. BOTTOM OF TRENCHES SHALL BE LEVEL.

INFILTRATION TRENCH DETAIL
NOT TO SCALE

STORMWATER BMP MAINTENANCE NOTES:

THE STORMWATER BMPs SHALL BE MAINTAINED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

- GENERAL:**
1. PROPERTY OWNER SHALL MAINTAIN BMPs IN ACCORDANCE WITH THE 'STATE OF RHODE ISLAND STORMWATER MANAGEMENT GUIDANCE FOR INDIVIDUAL SINGLE FAMILY RESIDENTIAL LOT DEVELOPMENT GUIDELINES'.
 2. VEHICLES OR OTHER HEAVY EQUIPMENT SHALL NOT BE PARKED ON TOP OF THE STORMWATER BMPs SINCE THIS WILL COMPACT THE SOILS AND REDUCE THE INFILTRATION CAPACITY OF THE SOILS.
- PERVIOUS DRIVEWAYS:**
1. CRUSHED STONE SHALL BE REPLACED OR RE-GRADED PERFORMED AS NECESSARY IN CRUSHED STONE DRIVEWAYS TO MAINTAIN A DESIGN DEPTH AND A LEVEL SURFACE.
- INFILTRATION TRENCHES:**
1. INFILTRATION TRENCHES SHALL BE INSPECTED ANNUALLY AND REPAIRED IF NECESSARY TO ENSURE PROPER DRAINAGE.
 2. ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED FROM THE SURFACE OF THE INFILTRATION TRENCH ANNUALLY.

STORMWATER BMP GENERAL NOTES:

1. SPECIFICATIONS, DETAILS, INSTALLATION AND MAINTENANCE REQUIREMENTS TO GOVERN THIS PROJECT FOR STORMWATER BEST MANAGEMENT PRACTICES (BMPs) ARE THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, AS REVISED. THE MANUAL IS AVAILABLE FOR DOWNLOAD AT THE GRMC AND RIDEM WEBSITES.
2. ALL BMP AREAS SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES SO SOILS DON'T BECOME COMPACTED.
3. ALL AREAS COMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PROMOTE INFILTRATION BY TILLING THE TOP 12 INCHES OF SOIL PRIOR TO FINAL STABILIZATION.

ONSITE WASTEWATER TREATMENT SYSTEM NEW DESIGN
A.P. 9, LOT 58-2
PAYNE ROAD
NEW SHOREHAM, RHODE ISLAND
Prepared For:
ROD MITCHELL

MARCUS CHANNELL
No. 1971
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SHEET
2
OF 2 SHEETS 2

JOB NO. MITCHELL
DWG. NO. MITCHELL-OWTS

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