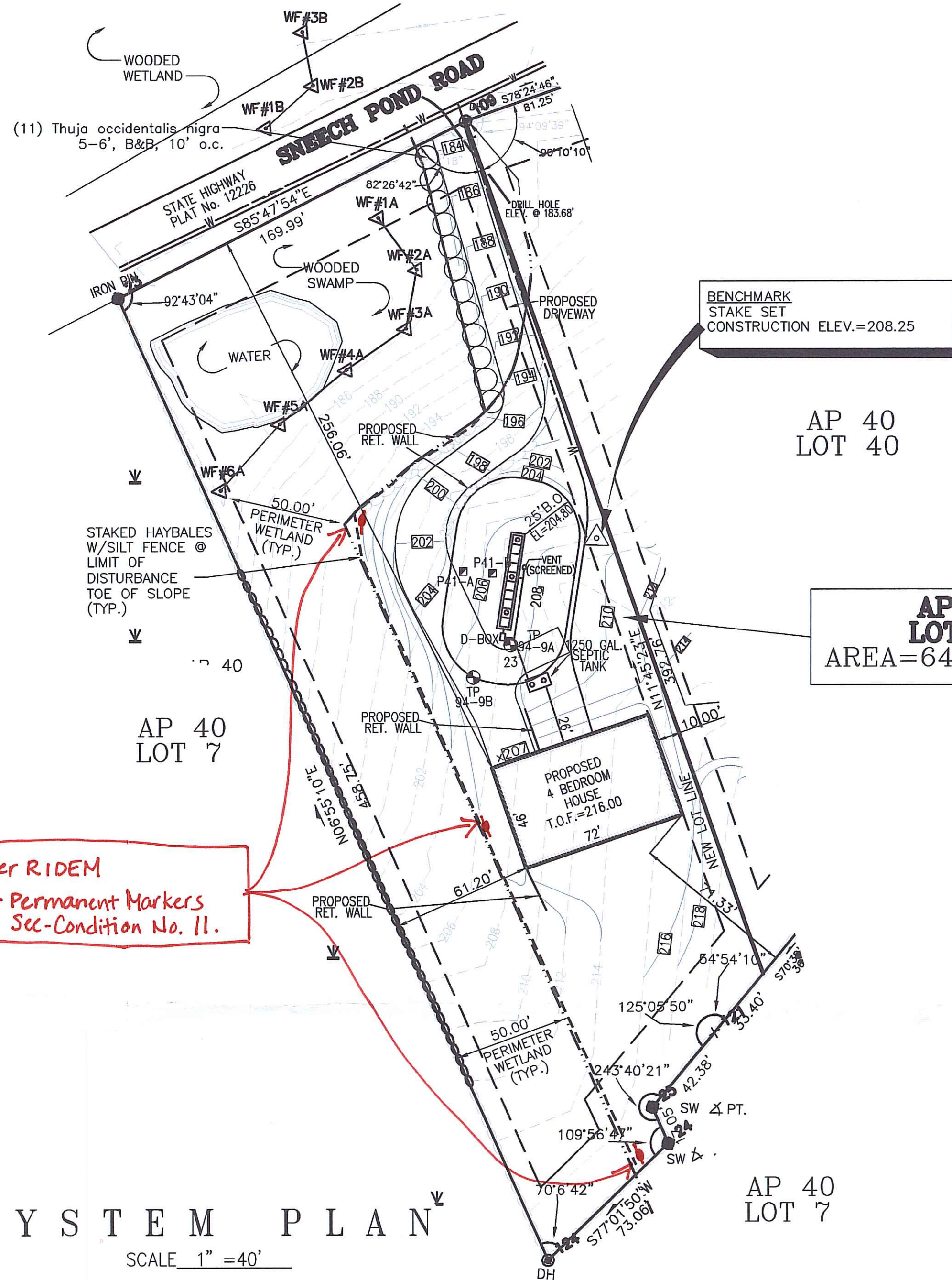


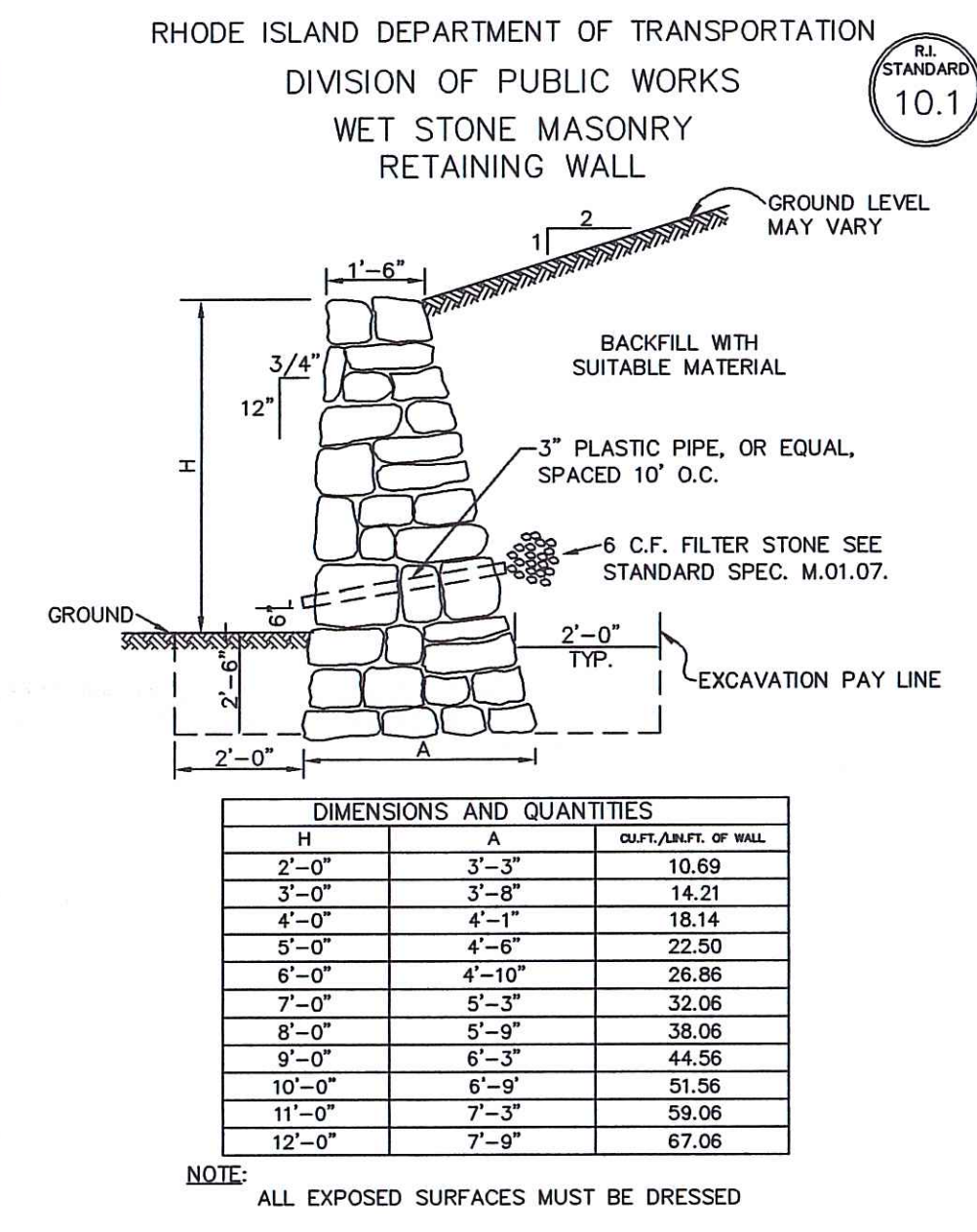
Kindly be advised that this Permit is not equivalent to a recalculation of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED JAN 13 2009 FILE # 08-0355  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman 1/13/09



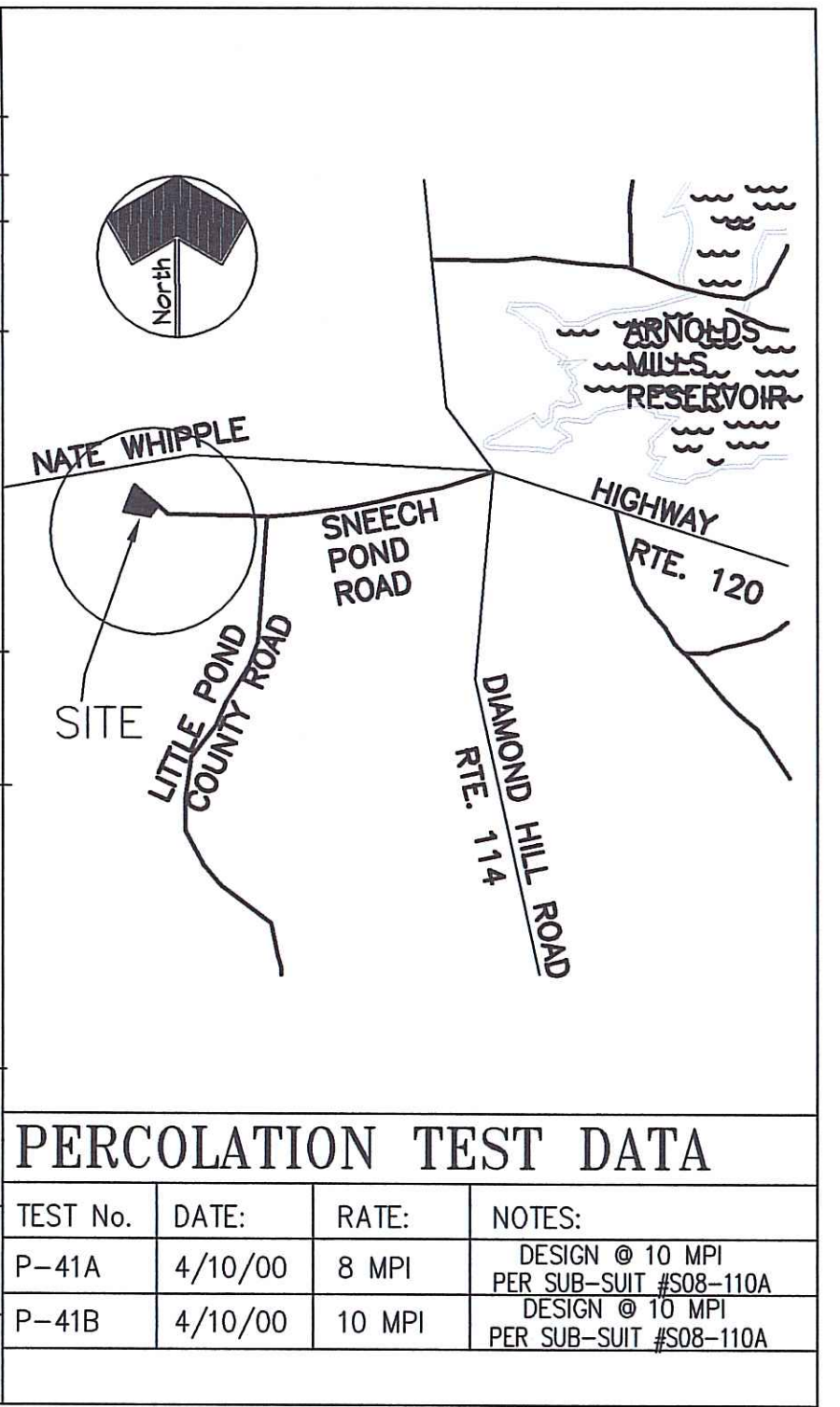
Per RIDEM  
Permanent Markers  
Sec-Condition No. 11.



LEGEND

- PROPERTY LINE
- EXISTING CONTOURS
- EDGE OF PAVEMENT
- EXISTING WATER LINE
- EXISTING STONE WALL
- PROPOSED WATER LINE
- BUILDING SETBACK
- PROPOSED SPOT GRADE
- PROPOSED CONTOURS
- AT TIME OF STONE WALL ANGLE POINT
- DRILL HOLE
- WETLAND EDGE
- 50-FT PERIMETER
- LIMIT OF DISTURBANCE

TEST PIT 94-9A			TEST PIT 94-9B		
DATE:	G.S. ELEV.	G.S. ELEV.	DATE:	G.S. ELEV.	G.S. ELEV.
3/24/94	206.75	206.75	3/24/94	204.50	204.50
ELEV.	DEPTH	SOIL DESCRIPTION	ELEV.	DEPTH	SOIL DESCRIPTION
206.25	6"	LM	204.00	6"	LM
205.25	18"	STL	201.50	36"	STL
196.25	126"	FS, G, 1ST, 2RB	196.50	96"	FS, 6, 1ST
195.25	138"		194.00	126"	FS, 6, 1ST
APPROVED G.W.T. DESIGN DEPTH OF 10' 6" PER SUB-SUIT #S08-110A			APPROVED G.W.T. DESIGN DEPTH OF 10' 6" PER SUB-SUIT #S08-110A		



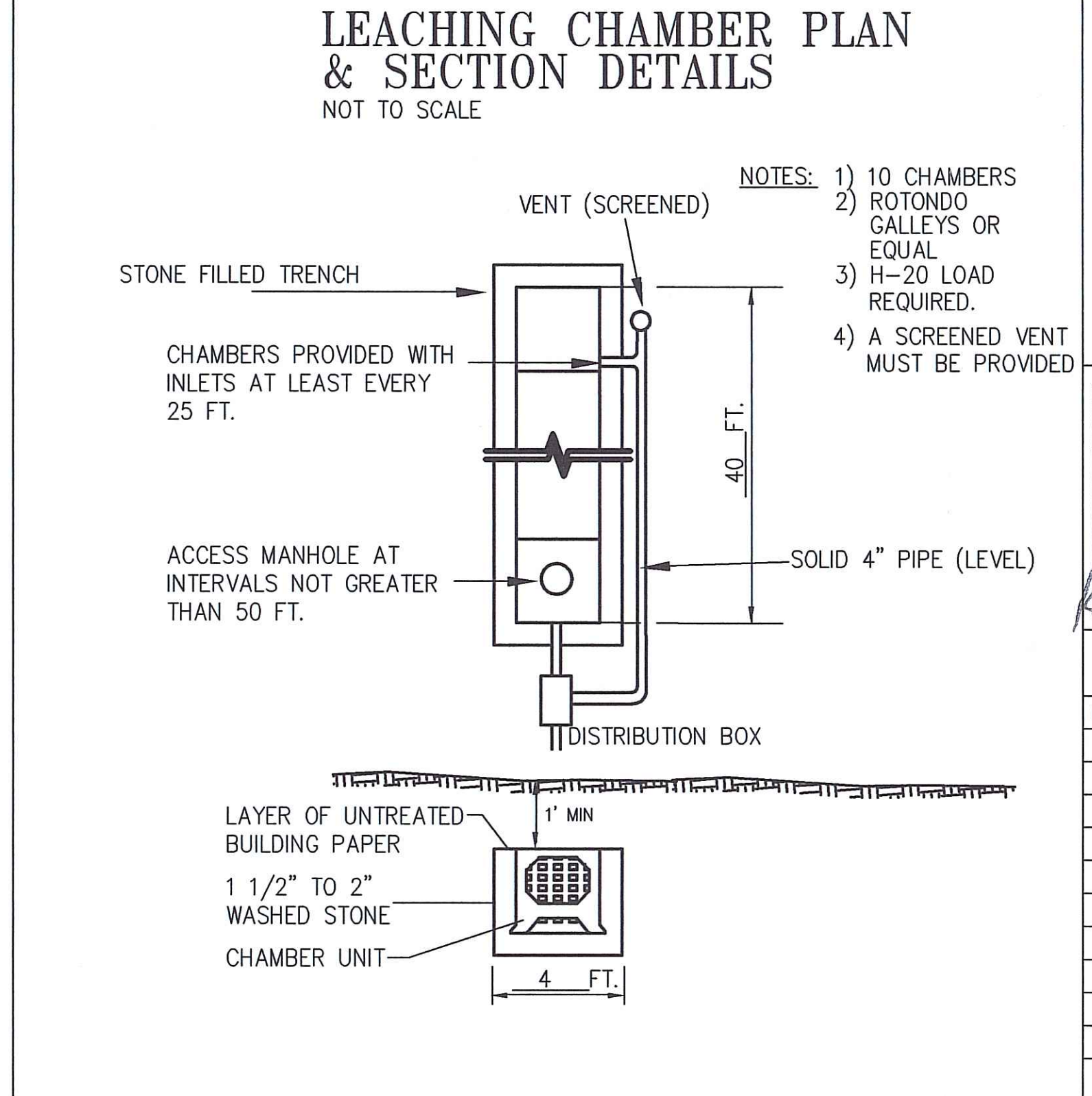
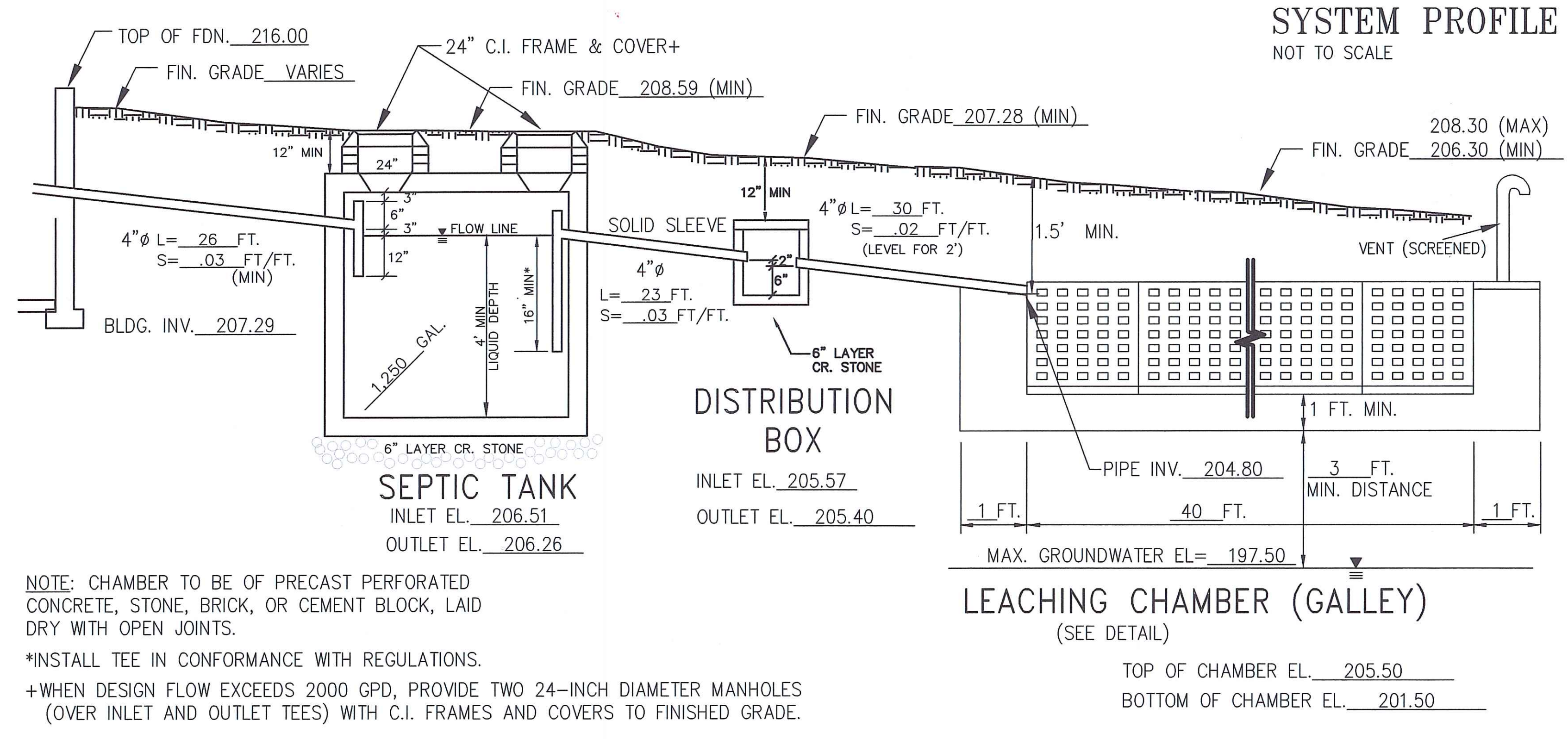
PERCOLATION TEST DATA

TEST No.	DATE:	RATE:	NOTES:
P-41A	4/10/00	8 MPI	DESIGN @ 10 MPI PER SUB-SUIT #S08-110A
P-41B	4/10/00	10 MPI	DESIGN @ 10 MPI PER SUB-SUIT #S08-110A

- DESIGN NOTES
- THERE ARE NO EXISTING OR PROPOSED WELLS, DRAINS OR WATERWAYS WITHIN 200 FEET OF THE PROPOSED SYSTEM.
  - THE SEPTIC TANK WILL BE PROVIDED WITH AN OUTLET TEE, INLET TEE OR BAFFLE AND TWO CLEANOUTS.
  - ALL BRUSH AND TREES WILL BE CLEARED WITHIN 10 FEET OF THE SYSTEM.
  - WITHIN TWENTY FIVE (25) FEET OF THE SYSTEM, FINISH GROUND WILL BE GREATER THAN INVERT ELEVATION = 204.80
  - NO EXISTING OR PROPOSED SUBDRAINS ARE WITHIN 25 FEET OF THE SYSTEM.
  - DISTRIBUTION BOX TO HAVE A MINIMUM AREA OF 3 SQ. FT.
  - THE SEPTIC TANK WILL BE PROVIDED WITH TWO ACCESS MANHOLES SET TO FINISHED GRADE TO DIVERT.
  - NOTED, THERE ARE NO PUBLIC WELLS, EXISTING OR PROPOSED, WITHIN 500 FEET OF THE PROPOSED SYSTEM.
  - THE TOPSOIL, SUBSOIL & ALL UNSUITABLE MATERIAL AND FINES SHALL BE REMOVED WITHIN THE AREA OF THE LEACHING SYSTEM FROM THE BOTTOM OF THE SUBSOIL TO THE GROUND SURFACE. THE AREA FROM THE BOTTOM OF THE EXCAVATION AND BETWEEN THE TRENCHES TO AN ELEVATION 6 INCHES ABOVE THE INVERT OF THE SYSTEM SHALL BE BACKFILLED WITH GRAVEL BASE AS SPECIFIED IN SD 11.05.

- SPECIFICATIONS
- THE SYSTEM FOR SUBSURFACE DISPOSAL OF SANITARY SEWAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS, DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, "RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION, AND MAINTENANCE OF INDIVIDUAL SEWAGE DISPOSAL SYSTEMS". (SD 1.00 THROUGH SD 21.03.
  - THE PIPE FROM THE BUILDING TO THE SEPTIC TANK SHALL BE EITHER COATED EXTRA HEAVY HUB AND SPIGOT CAST IRON SOIL PIPE (ASTM A-740) WITH OAKUM AND LEAD JOINTS, OR SOLID WALL PVC PIPE.
  - SOLID WALL PIPE AND FITTINGS SHALL BE SCHEDULE 35 PVC (POLYVINYL CHLORIDE) MANUFACTURED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF ASTM D 3034. JOINTS SHALL BE SOLVENT WELDED TYPE.
  - THE SEPTIC TANK SHALL BE A PRECAST REINFORCED CONCRETE STRUCTURE WITH A HEAVY DUTY COVER (HS20 WHEEL LOADING). THE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AFTER 28 DAYS. TANK TO BE PRECAST WITH SUITABLE ACCESS COVERS AND PIPE PENETRATION KNOCKOUTS.
  - THE DISTRIBUTION BOX SHALL BE A PRECAST CONCRETE STRUCTURE WITH A BAFFLE AND SUITABLE PIPE PENETRATION KNOCKOUTS. CONCRETE FOR ALL STRUCTURES (DISTRIBUTION BOX, GALLEY, CHAMBER, PIT, AND DIFFUSOR) SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AFTER 28 DAYS. (HS20 WHEEL LOADING)
  - CAST IRON ACCESS MANHOLE FRAME AND COVER, WHEN REQUIRED, SHALL HAVE AN INTERIOR DIMENSION SUITABLE FOR REMOVAL OF CONCRETE INSPECTION COVERS, AND SHALL ALSO BE MEDIUM OR HEAVY DUTY, AS NOTED.
  - PERFORATED PIPE, WHEN REQUIRED, SHALL BE SCHEDULE 35 PVC (ASTM D1785) WITH 2 ROWS OF 1/2 INCH PERFORATION HOLES PER PIPE.
  - WASHED STONE AND OTHER SOIL MATERIALS SHALL BE IN CONFORMANCE WITH THE STATE RULES AND REGULATIONS (S.D. 11.04) .
  - WHENEVER THE SYSTEM IS TO BE CONSTRUCTED WHOLLY OR PARTIALLY IN FILL, THE PROCEDURE AS DEFINED IN SECTION S.D. 11.06 OF THE STATE RULES AND REGULATIONS SHALL APPLY.
  - THE DESIGN INTENT IS TO MEET THE STATE STANDARDS. THE SYSTEM OPERATION IS DEPENDENT ON PROPER USAGE, AND IT'S OPERATION IS NOT GUARANTEED BY THIS PLAN. NOTE: CONTRACTOR TO VERIFY BENCHMARK & EXISTING CONDITIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN FIELD AND DESIGN DATA SHOWN HEREON TO BE REPORTED TO THE ENGINEER.

- PLAN REFERENCES
- STATE HIGHWAY PLAT No. 1226  
STATE HIGHWAY PLAT No. 908  
R.I.D.O.T. PUBLIC WORKS DIVISION
  - BOOK 184 PP 13-15  
BOOK 126 PP. 443-444  
TOWN OF CUMBERLAND, RI.
  - "DIVISION OF LAND PLAN  
PLAT 40 LOT 10, CUMBERLAND, RI."  
PREPARED BY:  
COMMONWEALTH ENGINEERS & CONSULTANTS, INC.  
SCALE: 1"=50' SHEET 1 of 1  
DATED 6/30/88 AND RECORDED IN THE LAND EVIDENCE RECORDS OF THE TOWN OF CUMBERLAND.
  - "ADMINISTRATIVE SUBDIVISION PLAN  
PLAT 40 LOTS 40 & 41, CUMBERLAND, RI."  
PREPARED BY:  
COMMONWEALTH ENGINEERS & CONSULTANTS, INC.  
SCALE: 1"=30' SHEET 1 of 1  
DATED 2/22/05



COMMONWEALTH ENGINEERS & CONSULTANTS, INC.  
400 SMITH STREET  
PROVIDENCE, RI 02908

REVISIONS

No.	DATE	DRWN	CHKD
1.	5/10/05	TJP	LL
2.	01/02/09	KAB	KK

SEPTIC SYSTEM PLAN  
for  
A.P. 40 LOT 41  
NATE WHIPPLE HIGHWAY  
in  
CUMBERLAND, RHODE ISLAND

SCALE: AS NOTED SHEET NO: 1 of 1  
DRAWN BY: TJP DESIGN BY: LRL CHECKED BY: KK  
DATE: 4/11/05 PROJECT NO.: 08048.00

RIDEM COPY