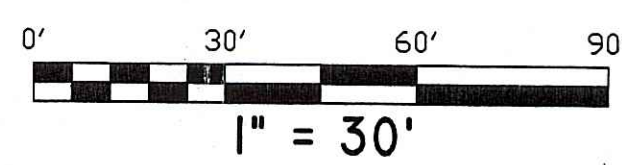


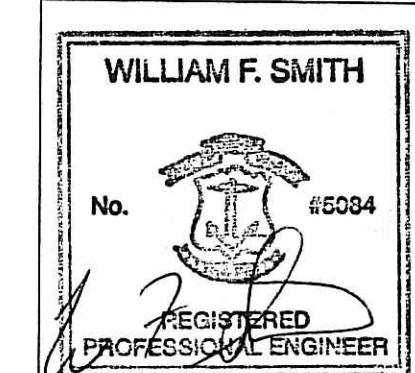
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUL 31 2008 FILE # 08-091
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Plantings shall consist of a double row of evergreens planted along the limit of disturbance. The back row shall consist of white spruce (Picea alba) or (Picea glauca) planted eight feet on center and five feet high after planting. The front row (closest to the proposed dwelling) shall consist of Northern white cedar (Thuja occidentalis), planted six feet on center and three to four feet high after planting. The proposed shrubs may be deleted from the planting schedule.

- PROPOSED PLANTINGS - Revised per DEM
 3'-4' TALL, 5'-ON-CENTER
 PLANTINGS TO BE AN EQUAL DISTRIBUTION OF THE FOLLOWING:
 - (NORTHERN WHITE CEDAR - THUJA OCCIDENTALIS)
 - (NORTHERN BAYBERRY - MYRICA PENNSYLVANICA)
 - (INKBERRY - ILEX GLABRA)
 - (BEACH ROSE - ROSA RUGOSA)
 (SEE DETAIL)



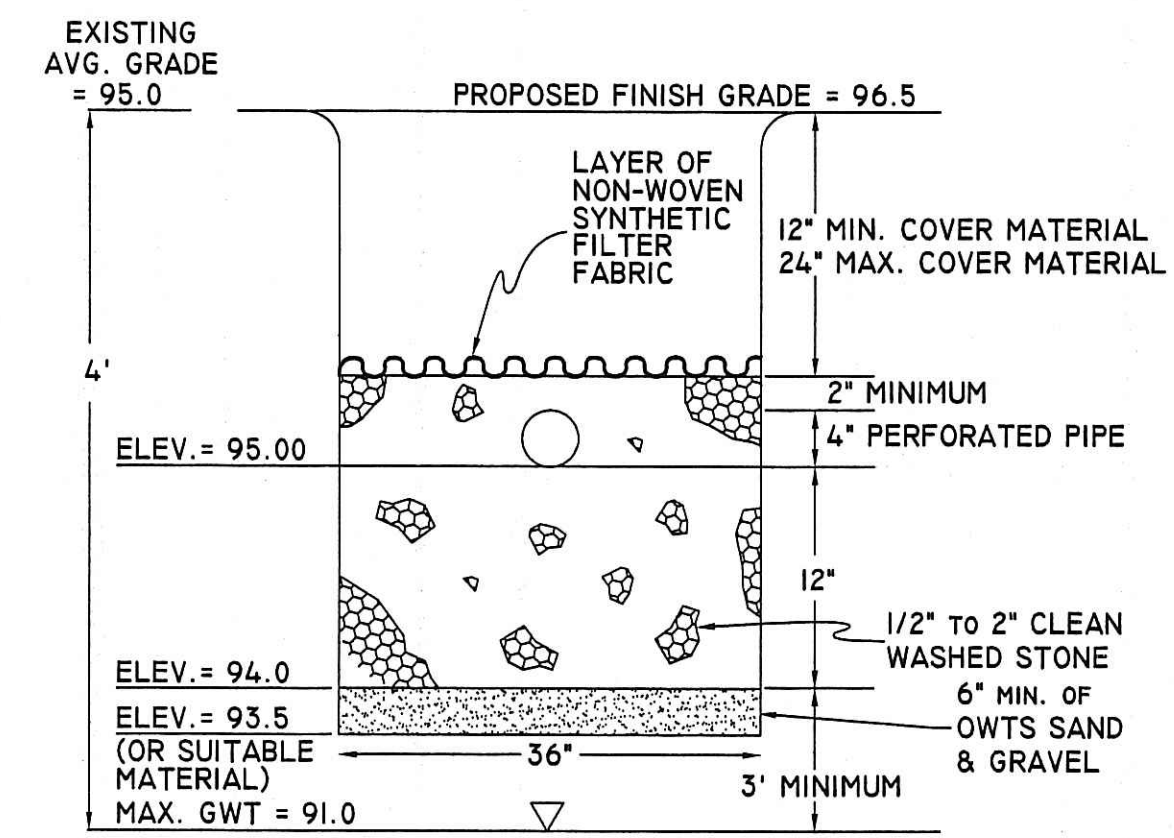
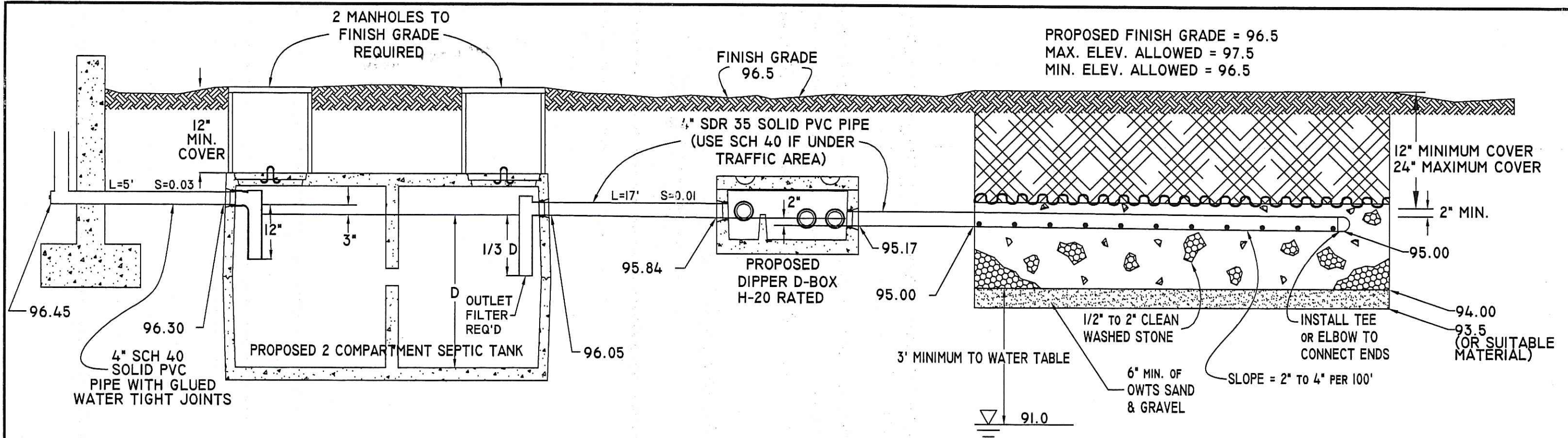
- LEGEND**
- EXISTING STONEWALL
 - - - EXISTING CONTOUR
 - - - PROPOSED CONTOUR
 - UTILITY POLE
 - EXISTING CATCHBASIN/CURB INLET
 - IRON ROD FOUND
 - EXISTING FENCE
 - - - EDGE OF EXISTING 40' R.O.W.
 - - - PROPOSED OWTS AND GRADING EASEMENT
 - - - PROPOSED HAYBALES OR SILT FENCE - PERMANENT LIMITS OF DISTURBANCE
 - - - PROPOSED HAYBALES OR SILT FENCE - TEMPORARY LIMITS OF DISTURBANCE FOR WELL AND WATERLINE INSTALLATION
 - 4" X 4" PRESSURE TREATED PERMANENT BUFFER MARKER
 - PROPOSED PLANTINGS



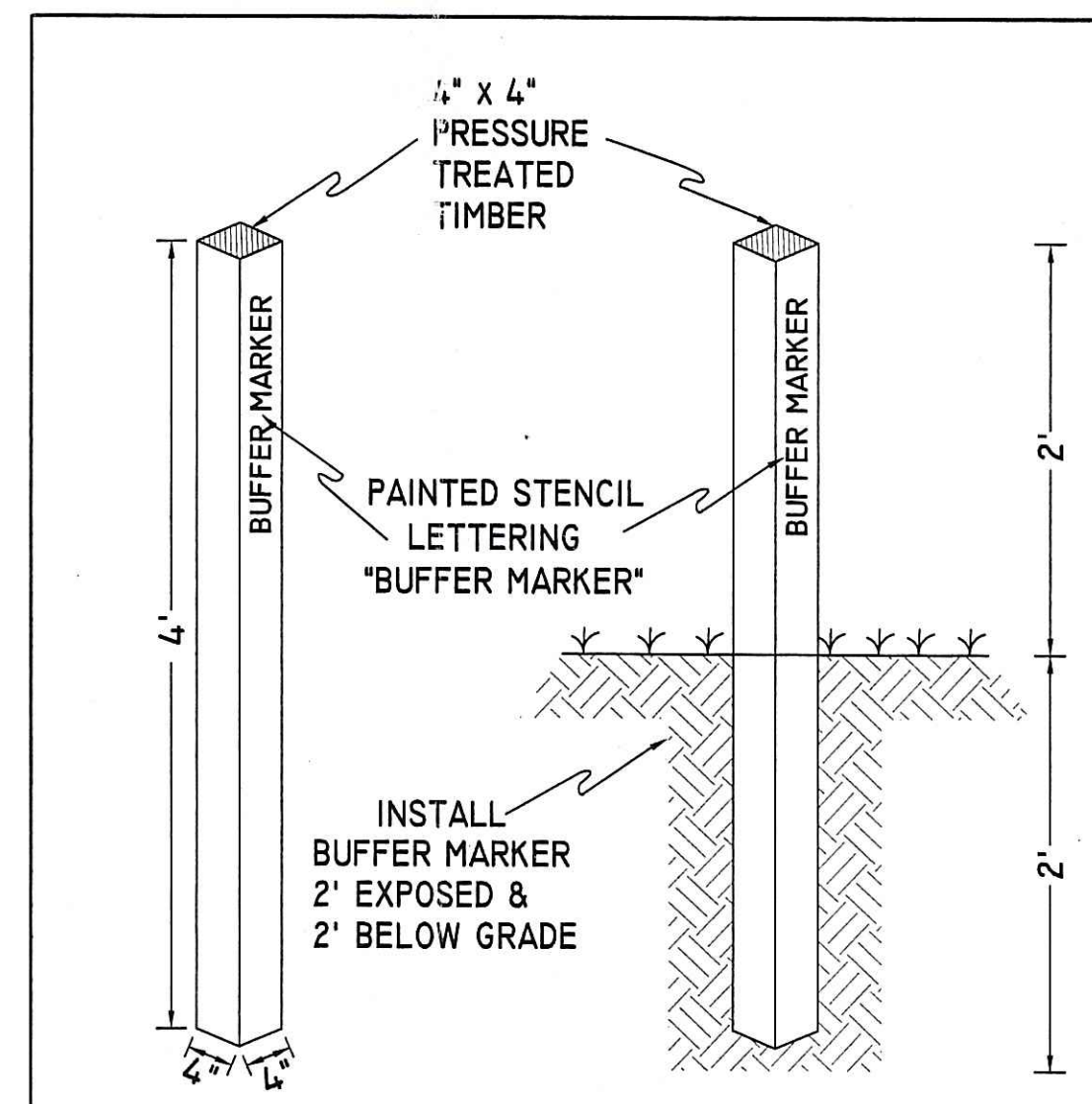
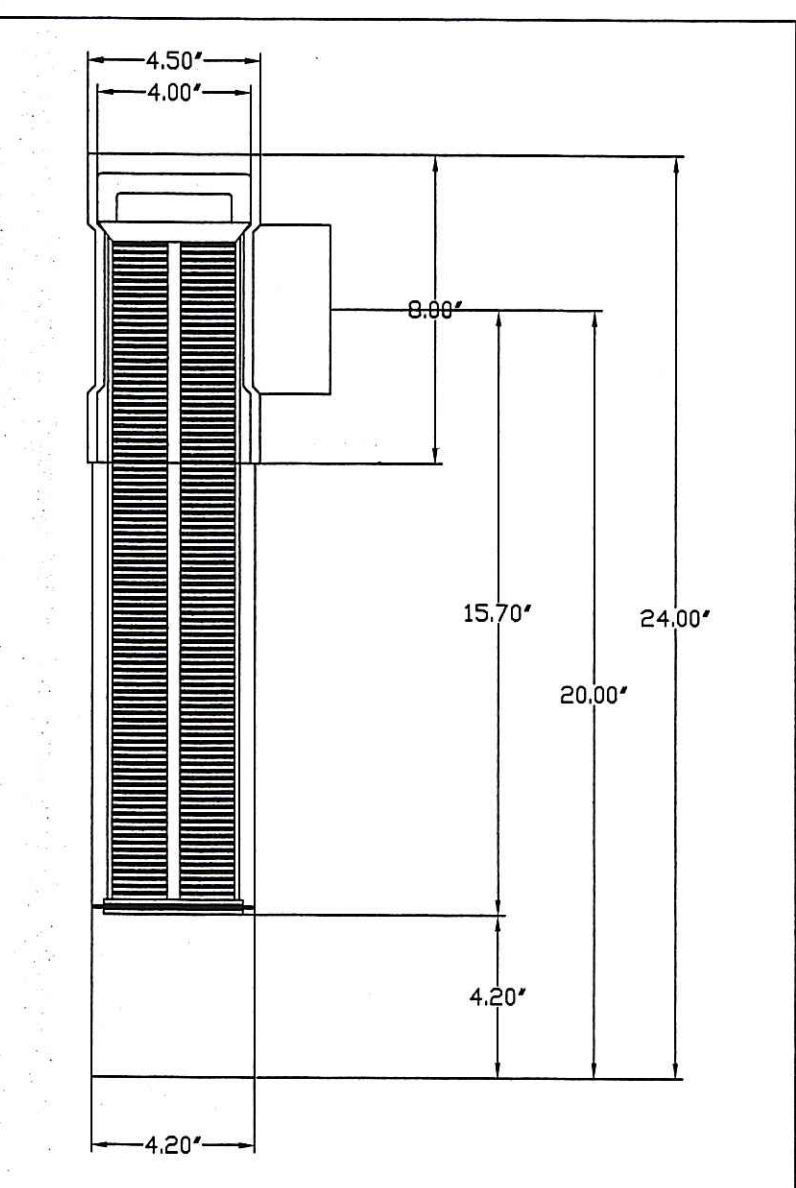
PROPOSED OWTS NEW CONSTRUCTION
 PREPARED FOR
STEVEN & KELLY MAURICIO
 MAP 4-7 BLOCK 142 CARDS 2 & 2E
 R.O.W. OFF CRANDALL ROAD
 TIVERTON, RHODE ISLAND

SCALE: 1" = 30' DATE: MAY 21, 2008
Civil Engineering Concepts, Inc.
 34A MAIN STREET P.O. BOX 5323
 LITTLE COMPTON, RI 02837 NEW BEDFORD, MA 02742
 PH: (401) 592-0177 FAX: (401) 592-0178
 (508) 990-4900

JUN 13 2008



SYSTEM PROFILE
NOT TO SCALE

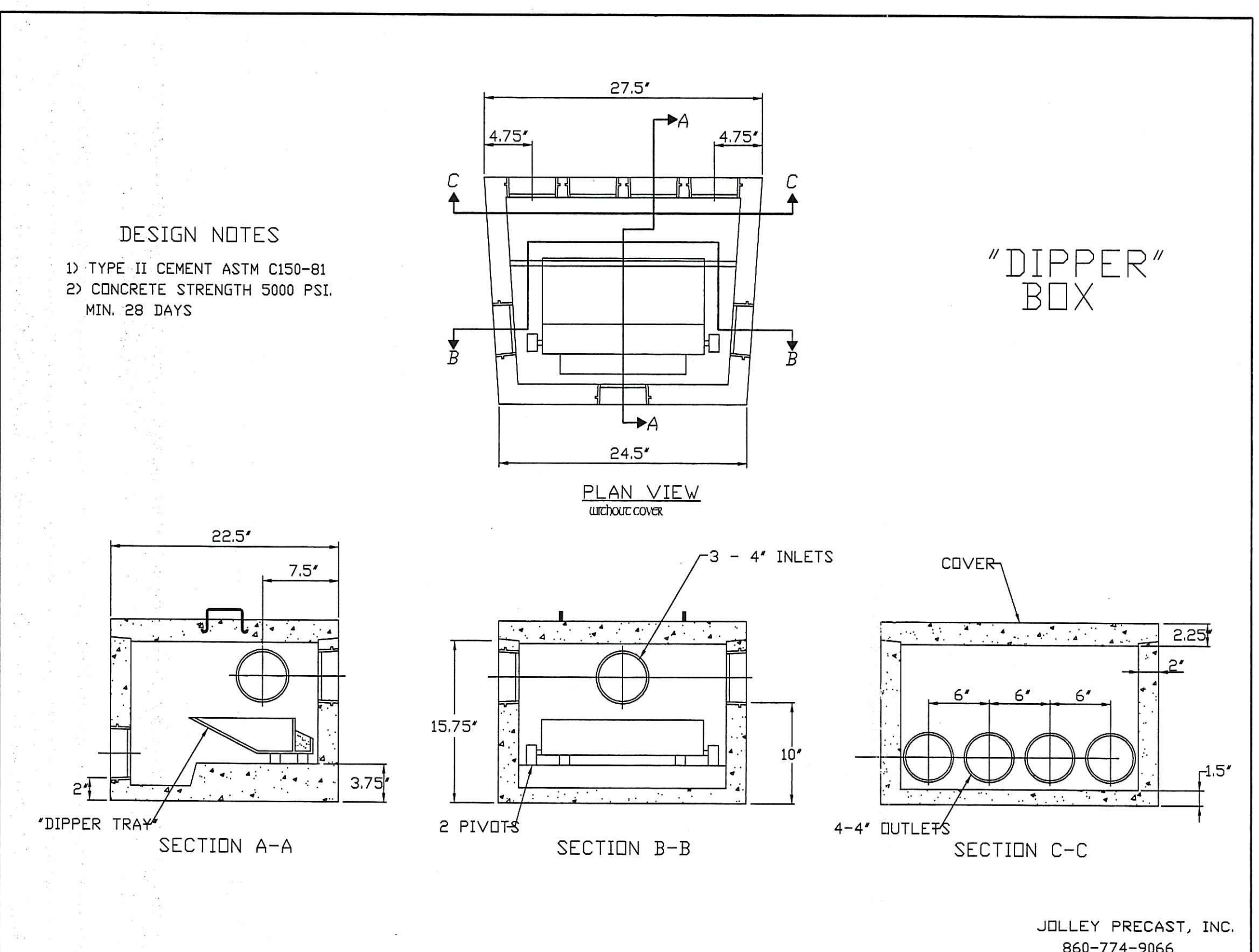
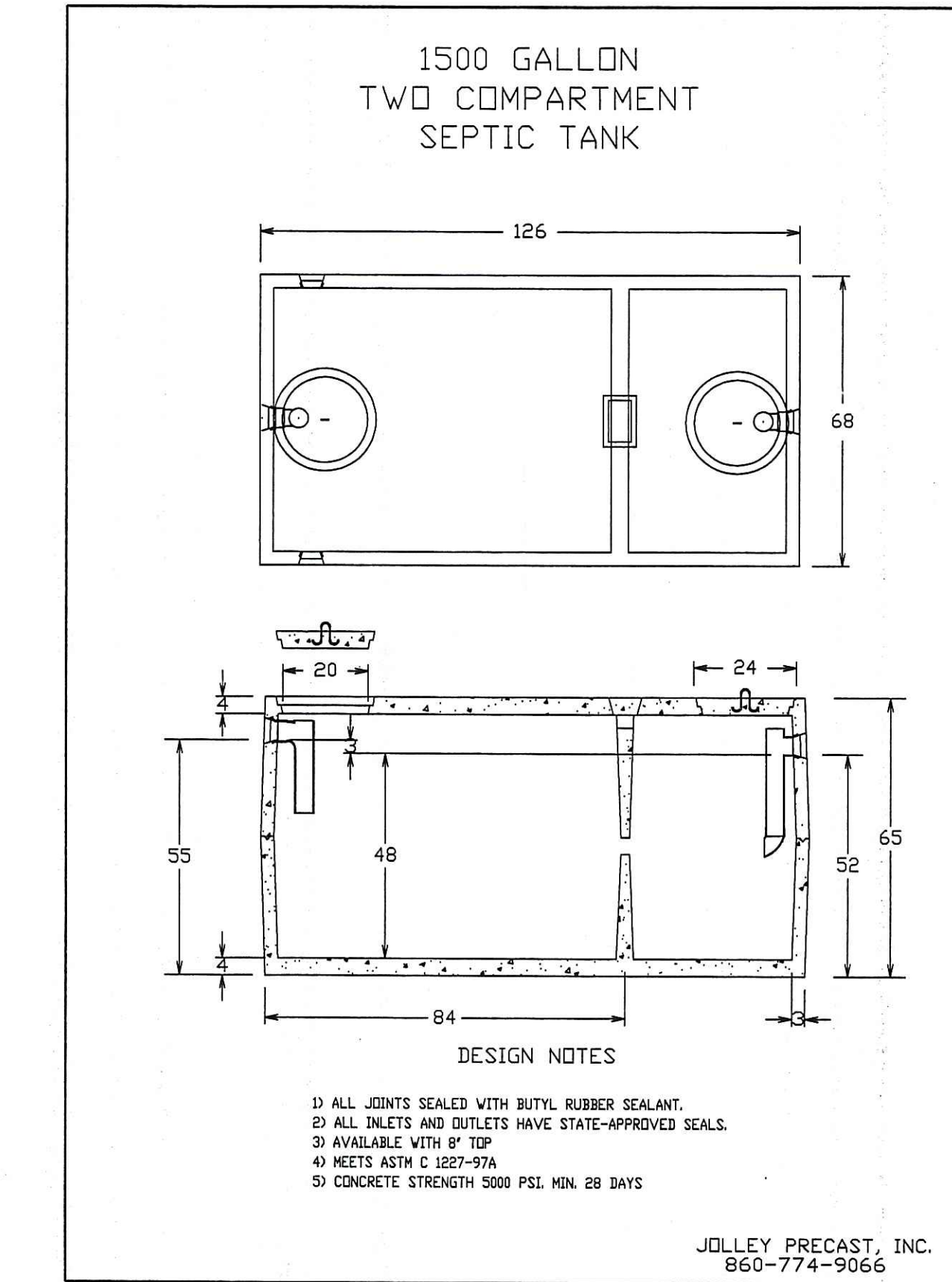


ZABEL ENVIRONMENTAL TECHNOLOGY 1849 WATERSIDE TRAIL, JEFFERSONVILLE, KY 40309			
TITLE A1800 STANDARD FILTER			
SIZE A	DWG NO. A1800	REV	
SCALE	DRAWN JCC	DATE 05/05/08	

TYPICAL TRENCH SECTION
NOT TO SCALE

SEPTIC TANK OUTLET FILTER

PERMANENT BUFFER MARKER DETAIL
(NOT TO SCALE)



BASIS OF SANITARY DESIGN
 NUMBER OF BEDROOMS: 4
 GARBAGE GRINDER: NOT ALLOWED
 ESTIMATED SEWAGE FLOW: 460 GALLONS PER DAY
 SIZE OF SEPTIC TANK: 1500 GALLONS
 DESIGN PERCOLATION RATE: 10 MIN/INCH
 LEACHING AREA PROVIDED: 3 OWTS LEACHING TRENCHES AT 60' LONG
 3' WIDE W/ 12\"/>

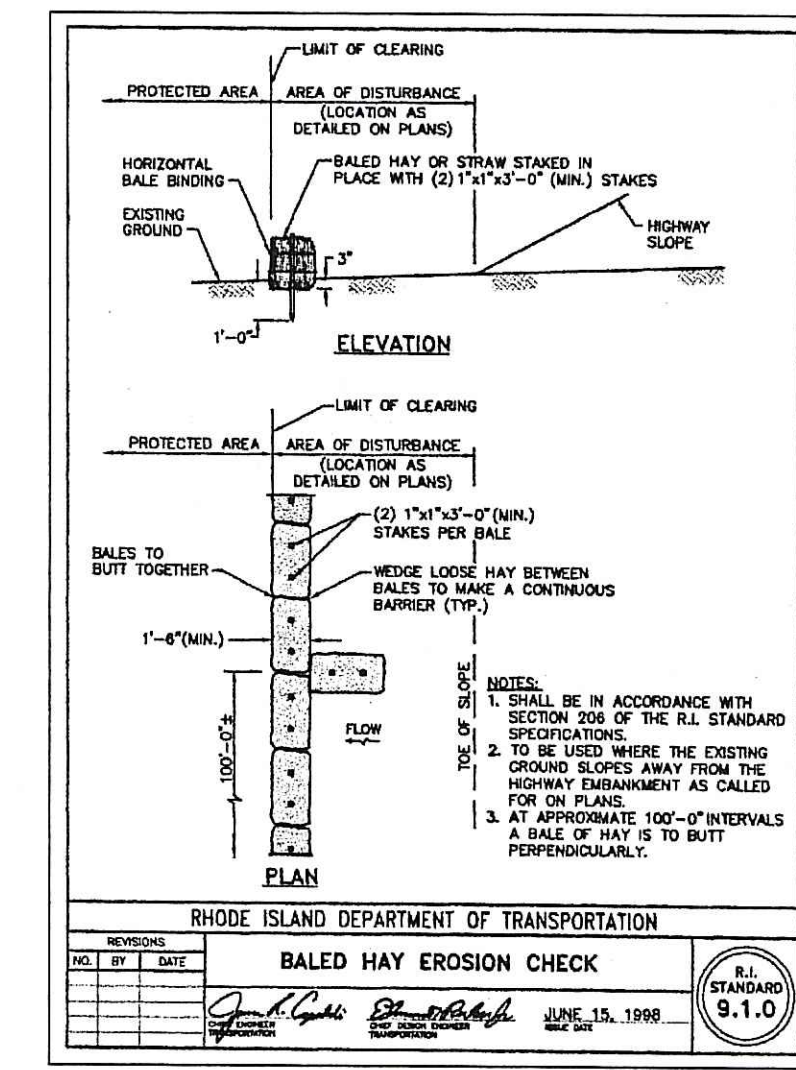
FINISHED GARAGE FLOOR.....	89.50
FINISHED FIRST FLOOR.....	88.5
TOP OF FOUNDATION.....	97.50
FINISHED BASEMENT FLOOR.....	90.00
INVERT AT DWELLING.....	96.45
INVERT INTO SEPTIC TANK.....	96.30
INVERT OUT OF SEPTIC TANK.....	96.05
INVERT INTO D-BOX.....	95.84
INVERT OUT OF D-BOX.....	95.17
INVERT AT BEGINNING OF TRENCH.....	95.00
INVERT AT END OF TRENCH.....	95.00
BOTTOM OF SAND.....	93.5
ELEVATION OF WATER TABLE.....	91.0
EXISTING AVERAGE GRADE AT OWTS.....	95.0

**NOTE: ELEVATIONS ARE BASED ON CONVENTIONAL DWELLING. NOTIFY DESIGNER OF ANY DISCREPANCIES PRIOR TO ANY WORK. DESIGN DOES NOT PERMIT TOILETS IN BASEMENT AREA.

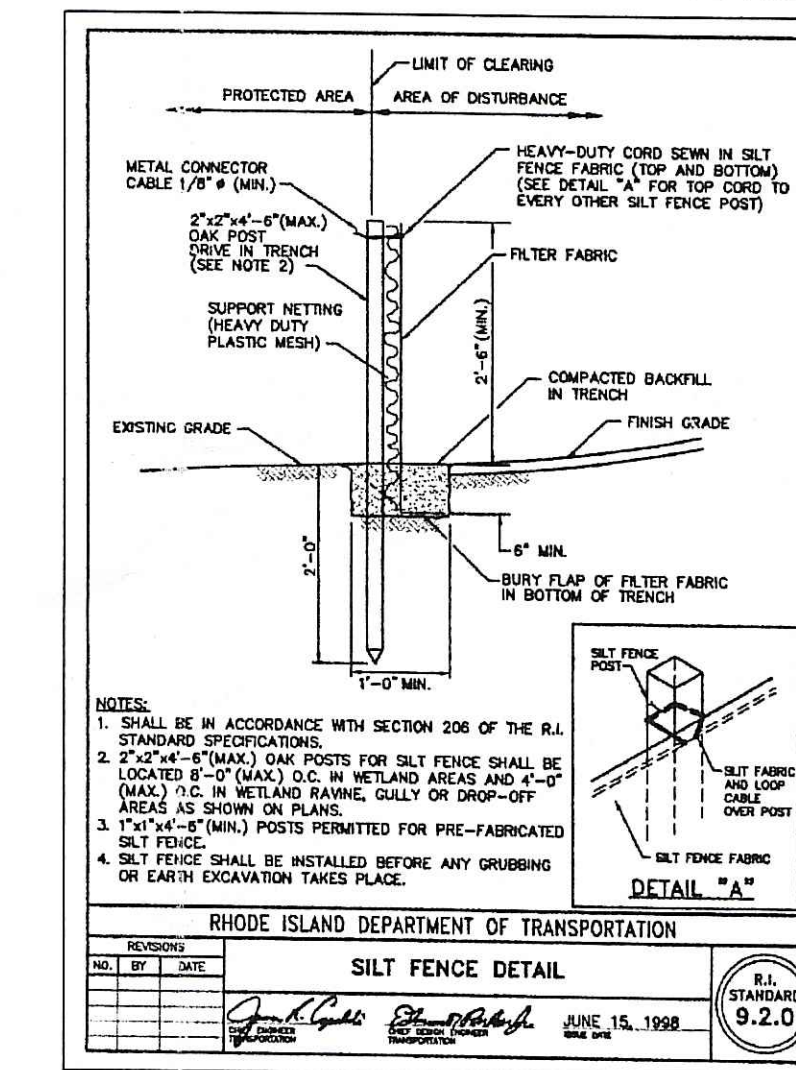
ALL EXISTING AND PROPOSED WELLS WITHIN 200' OF PROPOSED OWTS ARE SHOWN. NO EXISTING OR PROPOSED PUBLIC WELLS WERE OBSERVED WITHIN 500' OF PROPOSED OWTS. NO EXISTING OR PROPOSED SEPTIC SYSTEMS WITHIN 100' OF PROPOSED WELL. MAINTAIN ELEVATION 95.0 WITHIN 10' OF PROPOSED OWTS. NO UPGRADIENT DRAINS ALLOWED WITHIN 25' OF PROPOSED OWTS. NO DOWNGRADIENT DRAINS ALLOWED WITHIN 50' OF PROPOSED OWTS. BRING SEPTIC TANK COVERS TO GRADE. COVER TO BE 18\"/>

DISTRIBUTION BOX TO BE H-20 LOAD RATED
 ALL OWTS PIPE TO BE 4\"/>

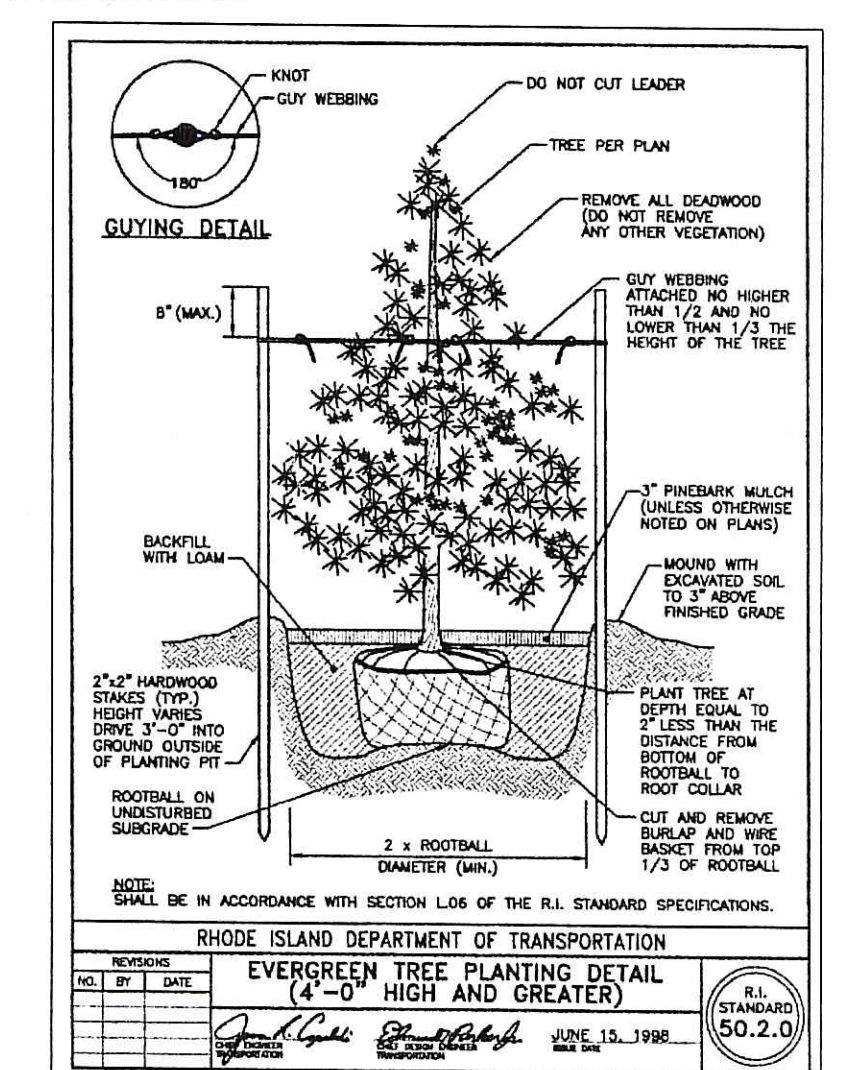
- NOTES:**
- 1.) ALL CONSTRUCTION SHALL CONFORM TO THE STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS DEPARTMENT OF ENVIRONMENTAL MANAGEMENT- RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS MOST RECENTLY AMENDED.
 - 2.) ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER WITH LINES LAID AS STRAIGHT AS POSSIBLE AND JOINTS MADE WATERTIGHT. ALL WORK TO BE DONE BY AN INSTALLER LICENSED IN THE STATE OF RHODE ISLAND.
 - 3.) SEPTIC TANK TO BE JOLLEY PRECAST 1500 GALLON TWO COMPARTMENT SEPTIC TANK. TWO SEPTIC TANK COVERS TO BE BROUGHT TO FINISH GRADE. OUTLET FILTER REQUIRED.
 - 4.) DISTRIBUTION BOX TO BE JOLLEY DIPPER D-BOX OR APPROVED EQUALS. ALL DISTRIBUTION LINES FROM BOX ONE FOOT INTO START OF TRENCH TO BE MINIMUM SOLID SDR-35. A DROP OF 2\"/>



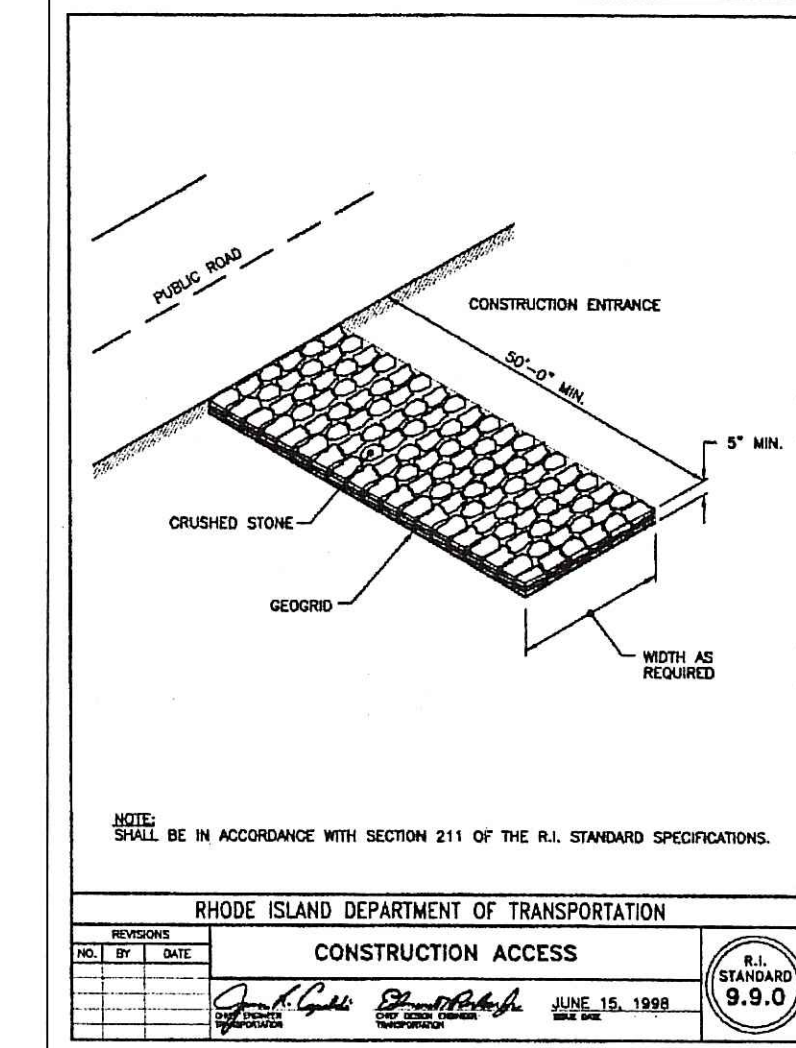
BALED HAY EROSION CHECK
R.I. STANDARD 9.1.0



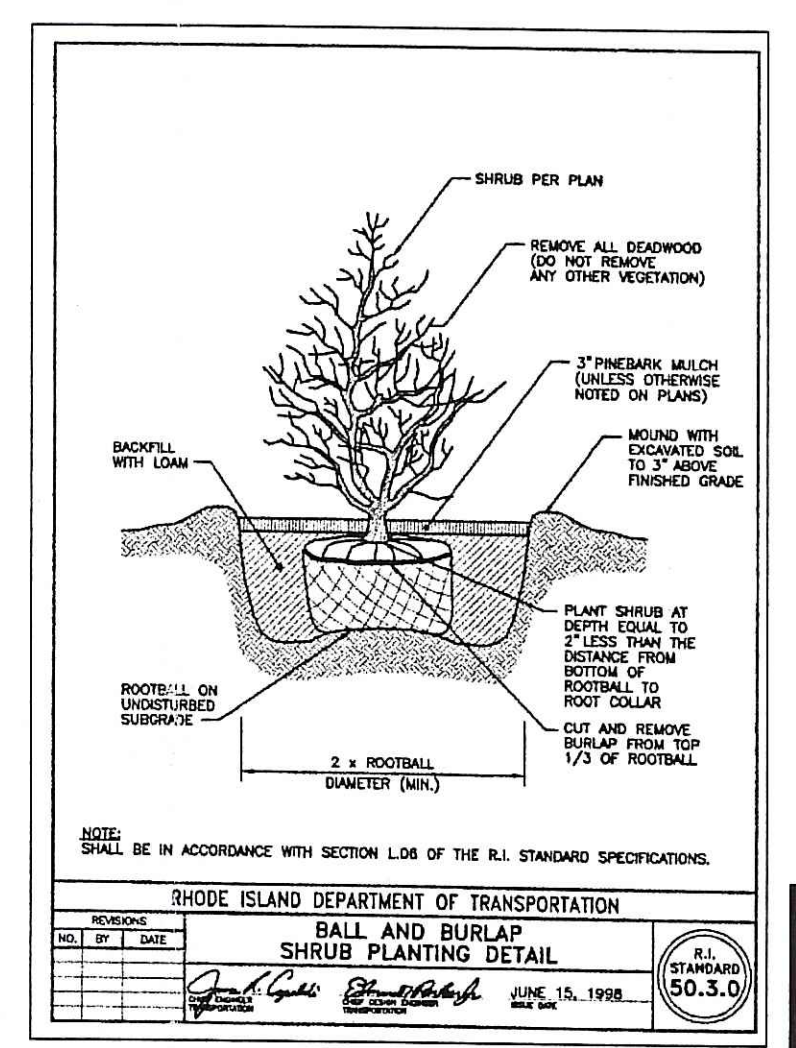
SILT FENCE DETAIL
R.I. STANDARD 9.2.0



EVERGREEN TREE PLANTING DETAIL
(4'-0\"/>



CONSTRUCTION ACCESS
R.I. STANDARD 9.9.0



BALL AND BURLAP SHRUB PLANTING DETAIL
R.I. STANDARD 50.3.0

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WITH USES PROGRAM
 APPROVED WITH USES PROGRAM
 AS SPECIFIED IN THE LET OF APPROVAL
 DATED JUL 31 2008 FILE # 08-0941
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Signature

WILLIAM F. SMITH
 No. 85034
 REGISTERED PROFESSIONAL ENGINEER

PROPOSED OWTS NEW CONSTRUCTION
 PREPARED FOR
STEVEN & KELLY MAURICIO
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 R.O.W. OFF CRANDALL ROAD
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