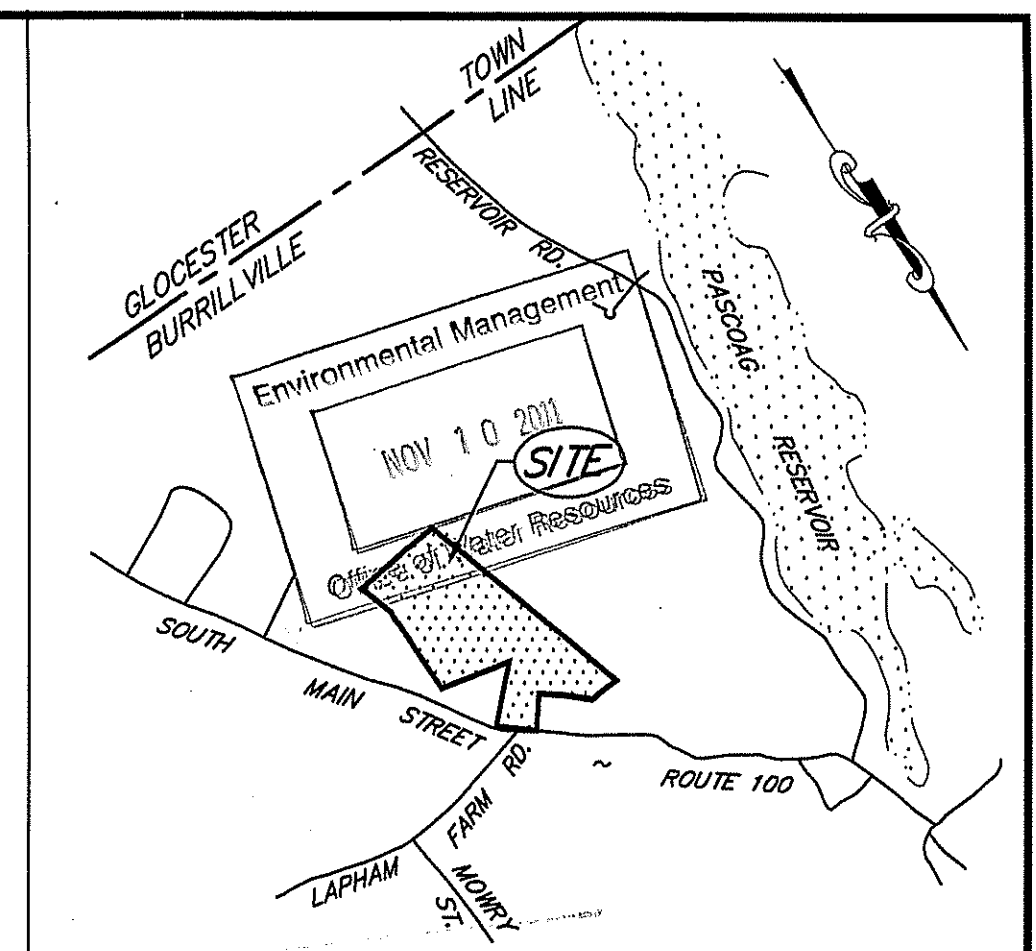


- GENERAL NOTES**
- PROPERTY LINES AND TOPOGRAPHIC INFORMATION PROVIDED FROM PLANS BY SCITUATE SURVEYS INC. THE SCITUATE SURVEYS PLANS SHOULD BE REFERENCED FOR ACCURATE AND UPDATED SURVEY INFORMATION, SEE SHEET 2.
  - WETLANDS EDGE DELINEATED BY NATURAL RESOURCE SERVICES, INC.
  - ALL LOTS AND UNITS TO BE SERVICED BY PUBLIC SEWER AND PUBLIC WATER.
  - ALL UTILITIES SHALL BE LOCATED UNDERGROUND.
  - SITE IS WITHIN FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN) PER FEMA FLOOD INSURANCE RATE MAP 44007C01300, DATE: MAR. 2, 2009.
  - HAYBALE OR SILT FENCE EROSION CHECKS SHALL BE INSTALLED AT ALL DOWNGRADIENT LIMITS OF DISTURBANCE FOR DRIVEWAY AND LOT DEVELOPMENT PRIOR TO CONSTRUCTION, SEE SHEET 5.
  - LOCATION OF APPROXIMATE WETLANDS IN OPEN SPACE AREAS SCALED FROM PLANS BY NATIONAL SURVEYORS - DEVELOPERS, INC. FOR WETLAND APPL. NO. 98-0423.



**LOCATION PLAN**  
SCALE: 1"=2000'

**SHEET INDEX**

- SITE PLAN
- EXISTING CONDITIONS PLAN
- SITE LAYOUT PLAN
- UTILITY PLAN
- GRADING & DRAINAGE PLAN
- PROFILE-1
- PROFILE-2
- DRAINAGE DETAILS
- UTILITY DETAILS
- CONSTRUCTION NOTES & DETAILS
- EROSION CONTROL NOTES & DETAILS

**EXISTING ZONING DATA**

ZONE:	FARMING F2	ZONE:	RESIDENTIAL R20
MIN. LOT AREA:	2.0 Ac.	MIN. LOT AREA:	20,000 S.F.
MIN. FRONTAGE:	300'	MIN. FRONTAGE:	125'
YARDS: FRONT	40'	YARDS: FRONT	30'
YARDS: SIDE	15'	YARDS: SIDE	10'
YARDS: REAR	40'	YARDS: REAR	30'

**GREENRIDGE DEVELOPMENT AREAS**

BUILDINGS	1.10± Ac.
DRIVES/WALKS	2.85± Ac.
LANDSCAPED	5.32± Ac.
OPEN SPACE	25.05± Ac.
<b>TOTAL</b>	<b>34.32± Ac.</b>

**DEVELOPMENT DATA**

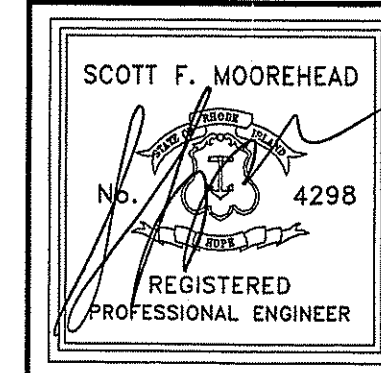
31 BUILDINGS  
75 DWELLING UNITS  
186 PARKING SPACES

**LEGEND**

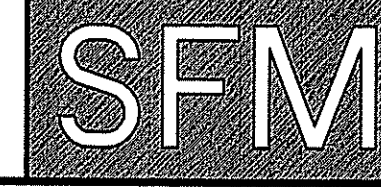
- 270- - - - - EXIST. CONTOUR
- ○ ○ ○ ○ EXIST. STONE WALL
- ▤ ▤ ▤ ▤ ▤ PROP. RETAINING WALL
- — — — — EXIST. TREE LINE
- — — — — PROP. TREE LINE
- — — — — LIMIT OF SITE DISTURBANCE
- — — — — EXIST. UTILITY POLE
- — — — — FLAGGED WETLAND EDGE
- — — — — 100' RIVERBANK WETLAND SETBACK
- — — — — 50' PERIMETER WETLAND SETBACK
- ⊙ EXIST. WELL
- — — — — WATER LINE
- — — — — SEWER LINE
- — — — — OPEN SPACE LIMITS

Kindly be advised that this permit is not equivalent to a verification 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 DEC 21 2011 FILE # 11-8116  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



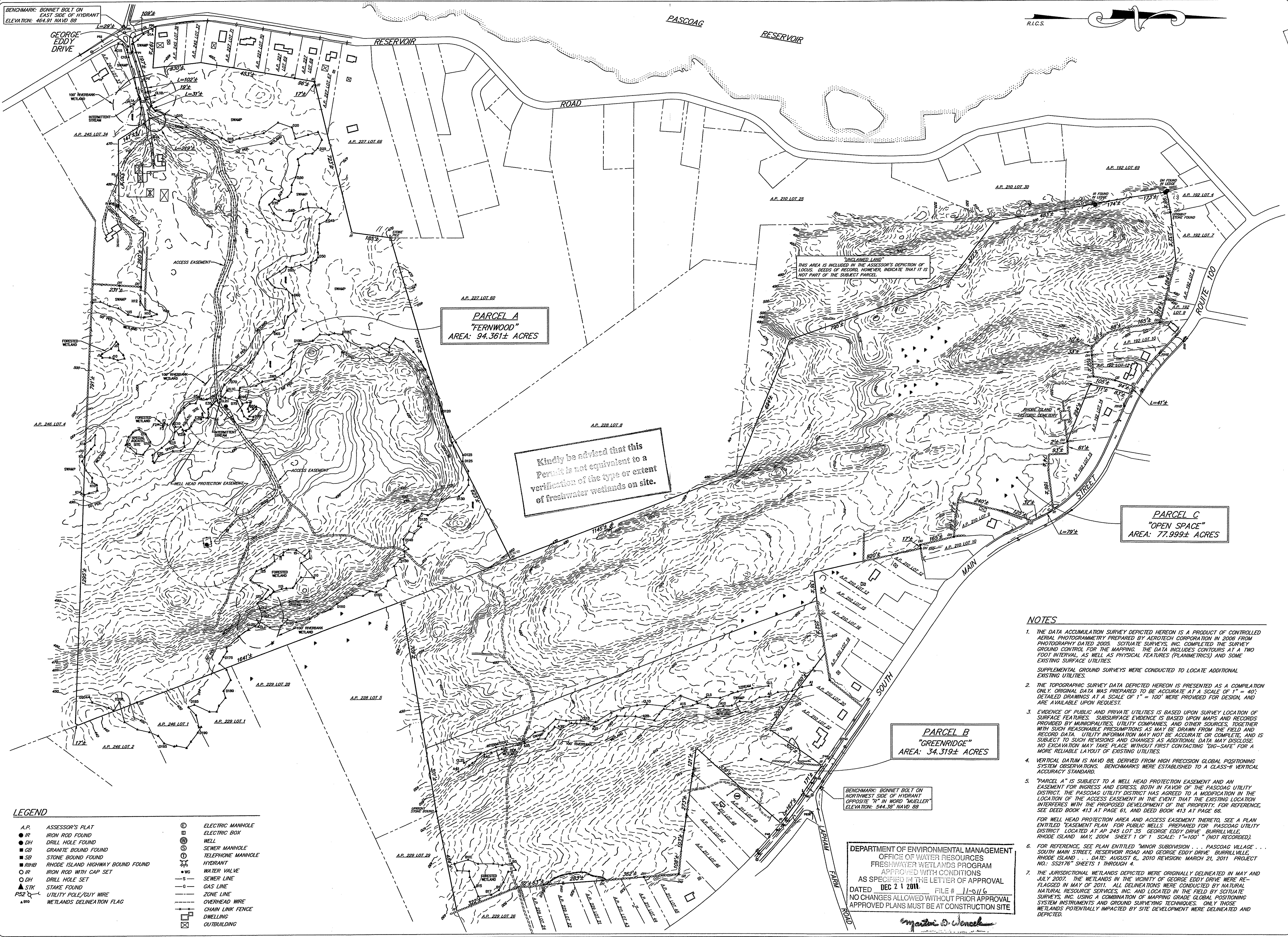
DATE	REVISION
8-8-11	DEM FWW RESUBMISSION



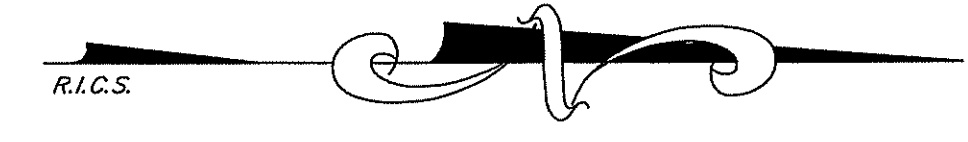
S.F.M. ENGINEERING ASSOCIATES  
410 TIOGUE AVENUE  
COVENTRY, R.I. 02816  
(401)826-3736

**GREENRIDGE**  
**PARCEL 'B'**  
SOUTH MAIN STREET  
ASSESSOR'S PLAT 210 LOT 23  
BURRILLVILLE, RHODE ISLAND  
PREPARED FOR:  
NEIGHBORWORKS BLACKSTONE RIVER VALLEY  
719 FRONT ST., SUITE 103  
WOONSOCKET, RHODE ISLAND 02895

**SITE PLAN**



BENCHMARK: BONNET BOLT ON EAST SIDE OF HYDRANT ELEVATION: 464.91 NAVD 88



**PARCEL A**  
"FERNWOOD"  
AREA: 94.361± ACRES

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

**PARCEL C**  
"OPEN SPACE"  
AREA: 77.999± ACRES

**PARCEL B**  
"GREENRIDGE"  
AREA: 34.319± ACRES

BENCHMARK: BONNET BOLT ON NORTHWEST SIDE OF HYDRANT OPPOSITE "T" IN WORD "WHEELER" ELEVATION: 544.38' NAVD 88

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED DEC 21 2011. FILE # 11-5116  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Matthew D. Wenzel*

- NOTES**
- THE DATA ACCUMULATION SURVEY DEPICTED HEREON IS A PRODUCT OF CONTROLLED AERIAL PHOTOGRAMMETRY PREPARED BY AEROTECH CORPORATION IN 2006 FROM PHOTOGRAPHY DATED 2005. SCITUATE SURVEYS, INC. COMPLETED THE SURVEY GROUND CONTROL FOR THE MAPPING. THE DATA INCLUDES CONTOURS AT A TWO FOOT INTERVAL, AS WELL AS PHYSICAL FEATURES (PLANIMETRICS) AND SOME EXISTING SURFACE UTILITIES. SUPPLEMENTAL GROUND SURVEYS WERE CONDUCTED TO LOCATE ADDITIONAL EXISTING UTILITIES.
  - THE TOPOGRAPHIC SURVEY DATA DEPICTED HEREON IS PRESENTED AS A COMPILATION ONLY. ORIGINAL DATA WAS PREPARED TO BE ACCURATE AT A SCALE OF 1" = 40'. DETAILED DRAWINGS AT A SCALE OF 1" = 100' WERE PROVIDED FOR DESIGN, AND ARE AVAILABLE UPON REQUEST.
  - EVIDENCE OF PUBLIC AND PRIVATE UTILITIES IS BASED UPON SURVEY LOCATION OF SURFACE FEATURES. SUBSURFACE EVIDENCE IS BASED UPON MAPS AND RECORDS PROVIDED BY MUNICIPALITIES, UTILITY COMPANIES, AND OTHER SOURCES, TOGETHER WITH SUCH REASONABLE PRESUMPTIONS AS MAY BE DRAWN FROM THE FIELD AND RECORD DATA. UTILITY INFORMATION MAY NOT BE ACCURATE OR COMPLETE, AND IS SUBJECT TO SUCH REVISIONS AND CHANGES AS ADDITIONAL DATA MAY DISCLOSE. NO EXCAVATION MAY TAKE PLACE WITHOUT FIRST CONTACTING "DIG-SAFE" FOR A MORE RELIABLE LAYOUT OF EXISTING UTILITIES.
  - VERTICAL DATUM IS NAVD 88, DERIVED FROM HIGH PRECISION GLOBAL POSITIONING SYSTEM OBSERVATIONS. BENCHMARKS WERE ESTABLISHED TO A CLASS-II VERTICAL ACCURACY STANDARD.
  - "PARCEL A" IS SUBJECT TO A WELL HEAD PROTECTION EASEMENT AND AN EASEMENT FOR INGRESS AND EGRESS, BOTH IN FAVOR OF THE PASCOAG UTILITY DISTRICT. THE PASCOAG UTILITY DISTRICT HAS AGREED TO A MODIFICATION IN THE LOCATION OF THE ACCESS EASEMENT IN THE EVENT THAT THE EXISTING LOCATION INTERFERES WITH THE PROPOSED DEVELOPMENT OF THE PROPERTY. FOR REFERENCE, SEE DEED BOOK 413 AT PAGE 61, AND DEED BOOK 413 AT PAGE 66. FOR WELL HEAD PROTECTION AREA AND ACCESS EASEMENT THERETO, SEE A PLAN ENTITLED "EASEMENT PLAN FOR PUBLIC WELLS" PREPARED FOR PASCOAG UTILITY DISTRICT LOCATED AT AP 245 LOT 35 GEORGE EDDY DRIVE BURRILLVILLE, RHODE ISLAND MAY, 2004 SHEET 1 OF 1 SCALE: 1"=100' (NOT CORRECTED).
  - FOR REFERENCE, SEE PLAN ENTITLED "MINOR SUBDIVISION . . . PASCOAG VILLAGE SOUTH MAIN STREET, RESERVOIR ROAD AND GEORGE EDDY DRIVE BURRILLVILLE, RHODE ISLAND . . . DATE: AUGUST 6, 2010 REVISION: MARCH 21, 2011 PROJECT NO.: SS2176" SHEETS 1 THROUGH 4.
  - THE JURISDICTIONAL WETLANDS DEPICTED WERE ORIGINALLY DELINEATED IN MAY AND JULY 2007. THE WETLANDS IN THE VICINITY OF GEORGE EDDY DRIVE WERE RE-FLAGGED IN MAY OF 2011. ALL DELINEATIONS WERE CONDUCTED BY NATURAL RESOURCE SERVICES, INC. AND LOCATED IN THE FIELD BY SCITUATE SURVEYS, INC. USING A COMBINATION OF MAPPING GRADE GLOBAL POSITIONING SYSTEM INSTRUMENTS AND GROUND SURVEYING TECHNIQUES. ONLY THOSE WETLANDS POTENTIALLY IMPACTED BY SITE DEVELOPMENT WERE DELINEATED AND DEPICTED.

**LEGEND**

<ul style="list-style-type: none"> <li>AP. ASSESSOR'S PLAT</li> <li>IR IRON ROD FOUND</li> <li>DH DRILL HOLE FOUND</li> <li>GB GRANITE BOUND FOUND</li> <li>SB STONE BOUND FOUND</li> <li>RHIB RHODE ISLAND HIGHWAY BOUND FOUND</li> <li>IR IRON ROD WITH CAP SET</li> <li>DH DRILL HOLE SET</li> <li>STK STAKE FOUND</li> <li>P52 UTILITY POLE/GUY WIRE</li> <li>WETLANDS DELINEATION FLAG</li> </ul>	<ul style="list-style-type: none"> <li>EM ELECTRIC MANHOLE</li> <li>EB ELECTRIC BOX</li> <li>W WELL</li> <li>SM SEWER MANHOLE</li> <li>TM TELEPHONE MANHOLE</li> <li>H HYDRANT</li> <li>WV WATER VALVE</li> <li>SL SEWER LINE</li> <li>GL GAS LINE</li> <li>ZL ZONE LINE</li> <li>OW OVERHEAD WIRE</li> <li>CLF CHAIN LINK FENCE</li> <li>DW DWELLING</li> <li>OB OUTBUILDING</li> </ul>
--	--

Environmental Management  
NOV 10 2011  
Office of Water Resources

**SCITUATE SURVEYS, INC.**  
410 TIOGUE AVENUE  
COVENTRY, RHODE ISLAND 02816  
401.882.8101  
LAND SURVEYING/MAPPING/SITE PLANNING

SCALE: 1"=400'  
200 100 0 200 400 600

FOR STREET AND ROAD INDEX FILE UNDER:  
SOUTH MAIN STREET, RESERVOIR ROAD AND  
GEORGE EDDY DRIVE

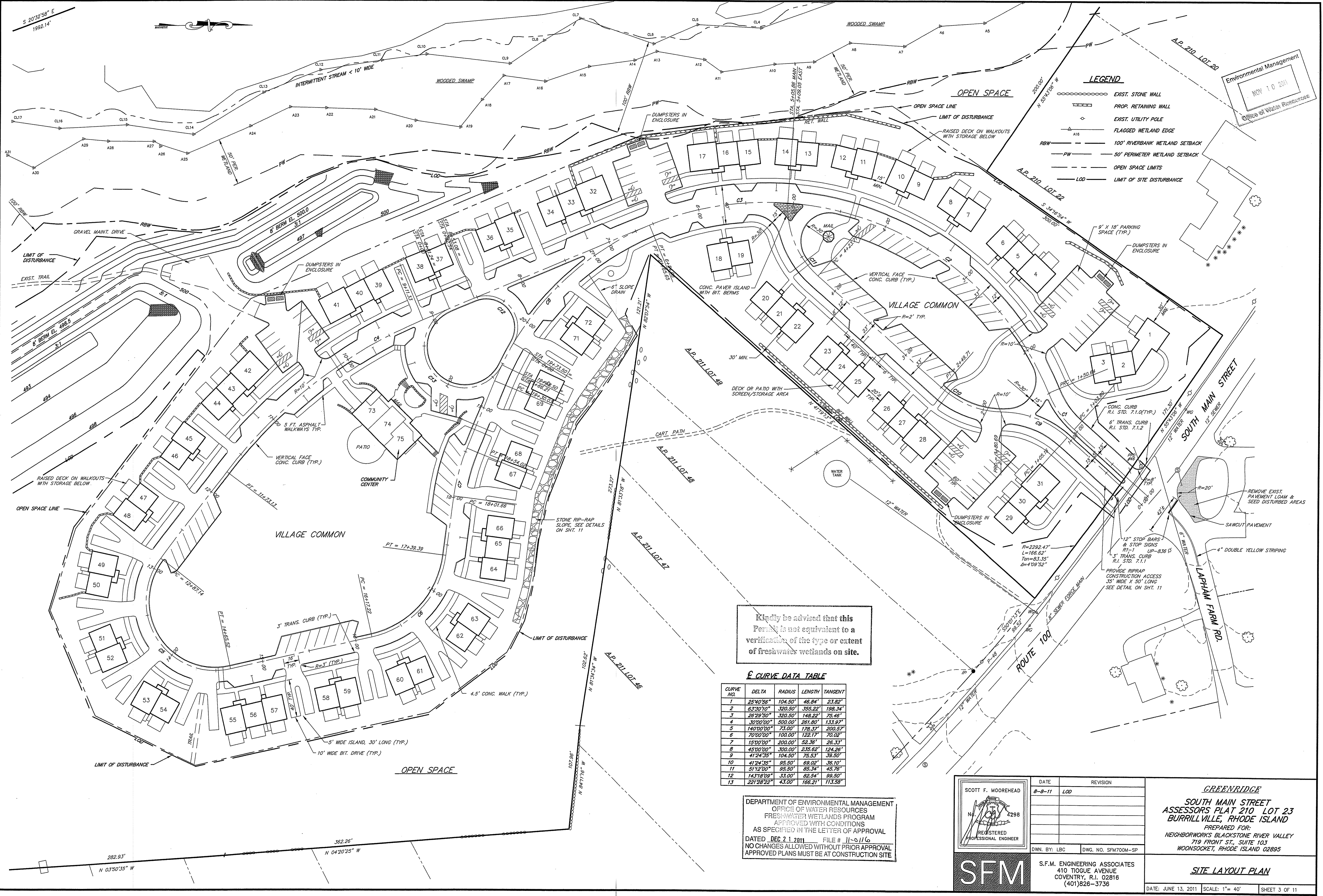
THIS SURVEY AND PLAN CONFORM TO A CLASS III STANDARD AS ADOPTED BY THE  
RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

BY: JOHN MEISWIGER, PROFESSIONAL LAND SURVEYOR NO. 1269

EXISTING CONDITIONS PLAN  
"GREENRIDGE"  
MULTI-FAMILY DEVELOPMENT  
SOUTH MAIN STREET  
BURRILLVILLE, RHODE ISLAND  
PREPARED FOR: NEIGHBORHOODS BLACKSTONE RIVER VALLEY

SCALE: 1" = 200' DATE: JUNE 28, 2011 REVISION:  
PROJECT NO.: SS2176 SHEET 2 OF 11  
DRAWING NO.: SS3784

S 20°32'58" E  
1992.14'



**LEGEND**

- EXIST. STONE WALL
- PROP. RETAINING WALL
- EXIST. UTILITY POLE
- FLAGGED WETLAND EDGE
- RBW --- 100' RIVERBANK WETLAND SETBACK
- PW --- 50' PERIMETER WETLAND SETBACK
- OPEN SPACE LIMITS
- LOD --- LIMIT OF SITE DISTURBANCE

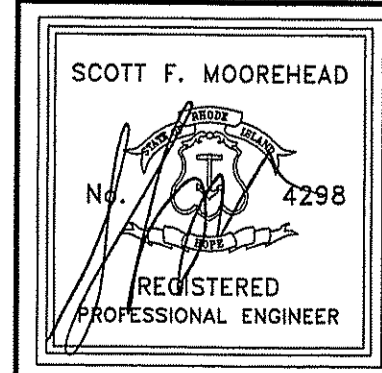
Environmental Management  
Office of Water Resources  
NOV 10 2011

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

**Curve Data Table**

CURVE NO.	DELTA	RADIUS	LENGTH	TANGENT
1	25°40'56"	104.50'	46.84'	23.82'
2	63°30'10"	320.50'	355.22'	198.34'
3	28°29'50"	320.50'	148.22'	75.46'
4	30°00'00"	500.00'	261.60'	133.97'
5	140°00'00"	73.00'	178.37'	200.57'
6	70°00'00"	100.00'	122.17'	70.02'
7	15°00'00"	200.00'	52.36'	26.33'
8	45°00'00"	300.00'	235.62'	124.26'
9	41°24'35"	104.50'	75.53'	39.50'
10	41°24'35"	95.50'	69.02'	36.10'
11	51°12'00"	95.50'	85.34'	45.76'
12	143°18'09"	33.00'	62.54'	99.50'
13	221°28'22"	43.00'	166.21'	113.58'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED DEC 21 2011 FILE # 11-0116  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



DATE	REVISION
8-8-11	LOD

**SFM**

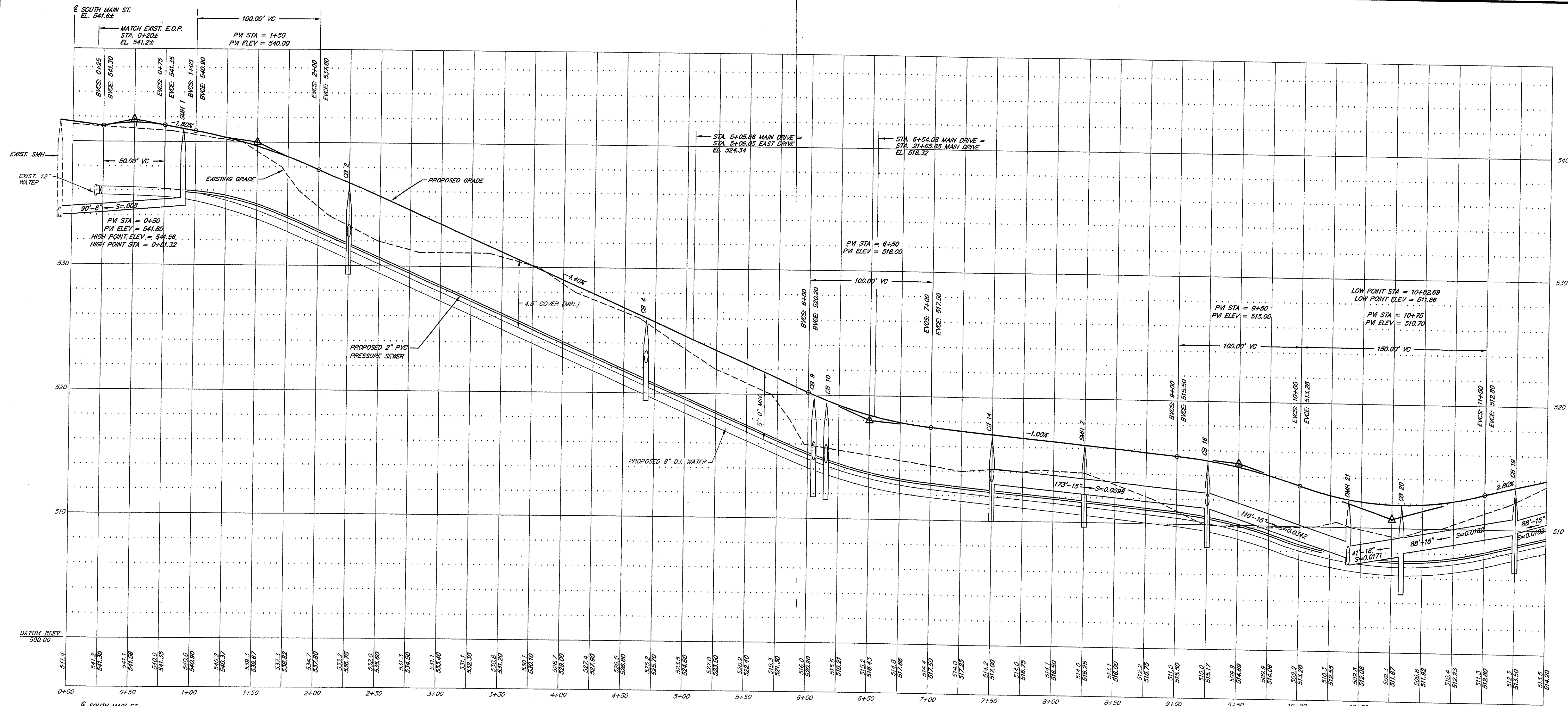
S.F.M. ENGINEERING ASSOCIATES  
410 TIOGUE AVENUE  
COVENTRY, R.I. 02816  
(401)826-3736

**GREENRIDGE**  
SOUTH MAIN STREET  
ASSESSORS PLAT 210 LOT 23  
BURRILLVILLE, RHODE ISLAND  
PREPARED FOR:  
NEIGHBORWORKS BLACKSTONE RIVER VALLEY  
719 FRONT ST., SUITE 103  
WOONSOCKET, RHODE ISLAND 02885

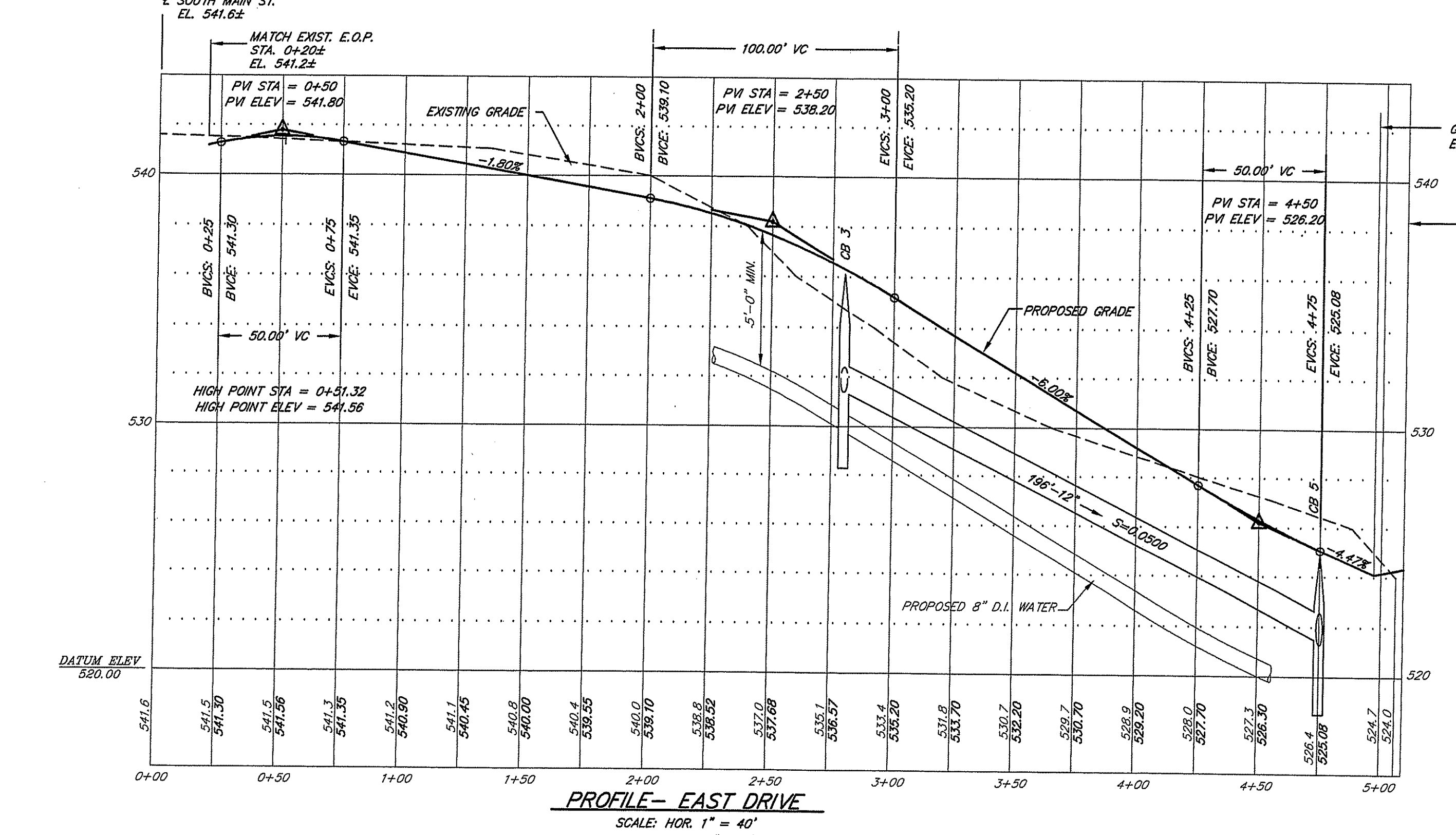
**SITE LAYOUT PLAN**  
DATE: JUNE 13, 2011 SCALE: 1"= 40' SHEET 3 OF 11







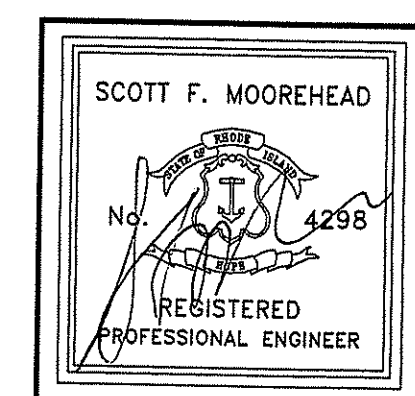
**PROFILE - MAIN DRIVE**  
 SCALE: HOR. 1" = 40'  
 VERT. 1" = 4'



**PROFILE - EAST DRIVE**  
 SCALE: HOR. 1" = 40'  
 VERT. 1" = 4'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED DEC 21 2011 FILE # 11-0116  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Master D. Wencel*



DATE	REVISION

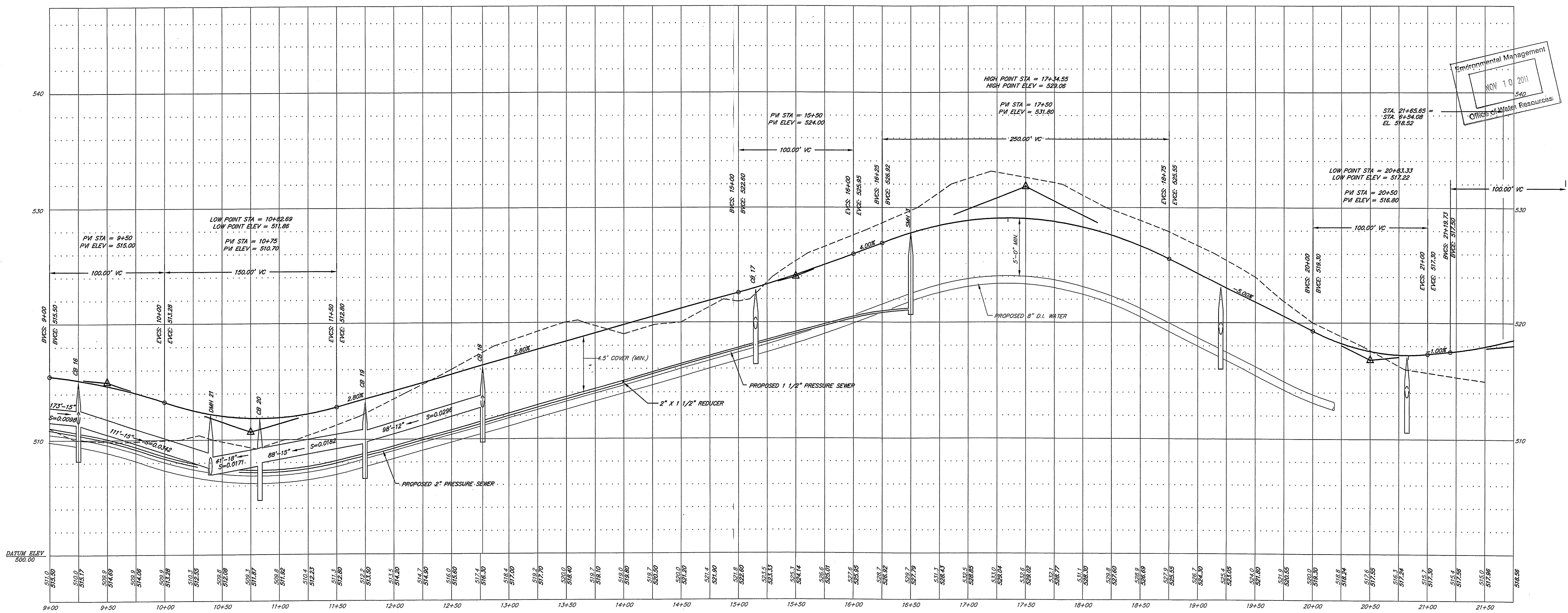


S.F.M. ENGINEERING ASSOCIATES  
 410 TIOGUE AVENUE  
 COVENTRY, R.I. 02816  
 (401)826-3736

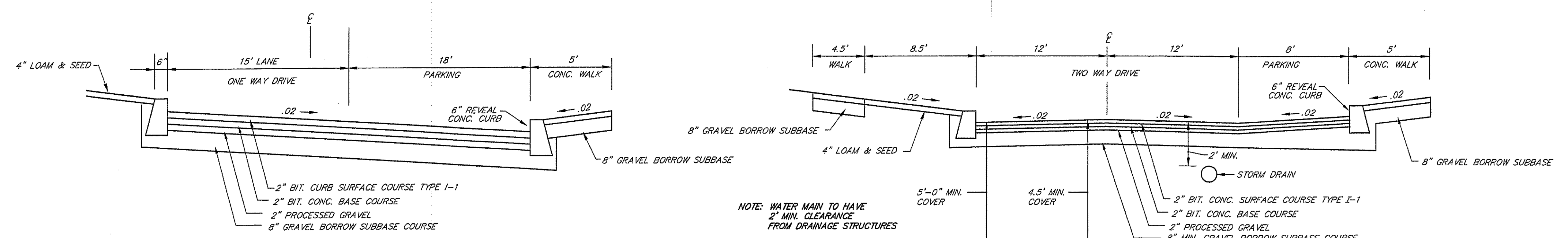
**GREENRIDGE**  
 SOUTH MAIN STREET  
 ASSESSOR'S PLAT 210 LOT 23  
 BURRILLVILLE, RHODE ISLAND  
 PREPARED FOR:  
 NEIGHBORWORKS BLACKSTONE RIVER VALLEY  
 719 FRONT ST., SUITE 103  
 WOONSOCKET, RHODE ISLAND 02895

**PROFILE - 1**

Environmental Management  
 NOV 10 2011  
 540  
 Office of Water Resources



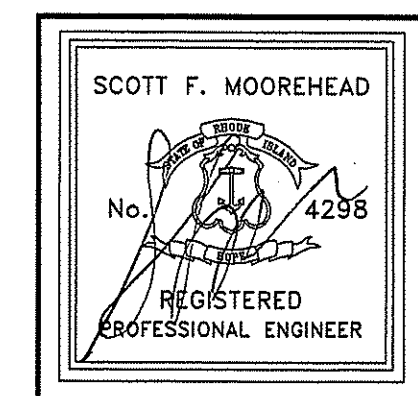
**PROFILE - MAIN DRIVE**  
 SCALE: HOR. 1" = 40'  
 VERT. 1" = 4'



**TYPICAL DRIVEWAY SECTIONS**  
 NOT TO SCALE

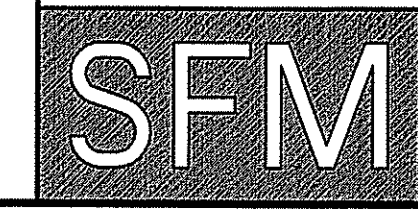
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED DEC 2 1 2011 FILE # J1-0116  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Margaret D. Wenzel*



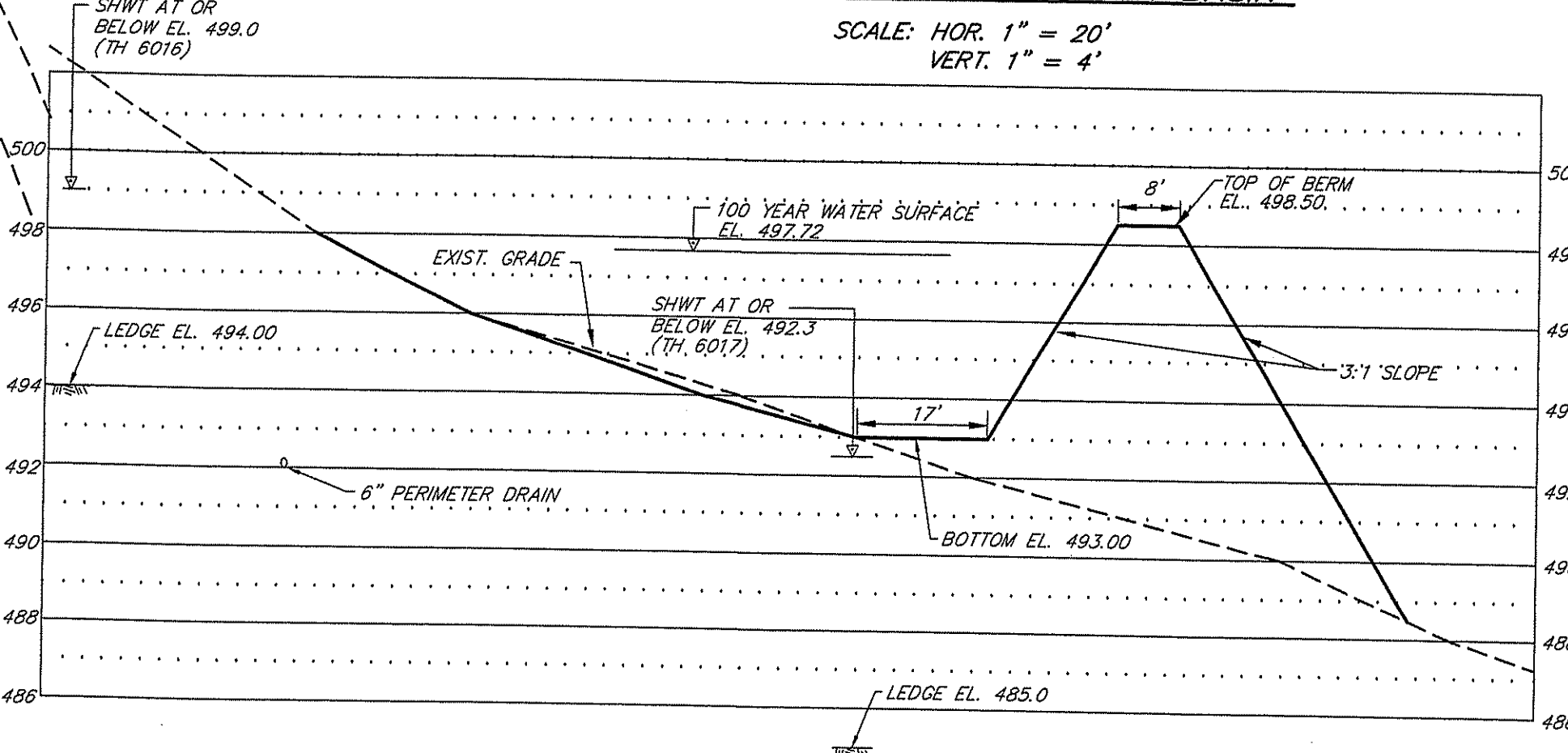
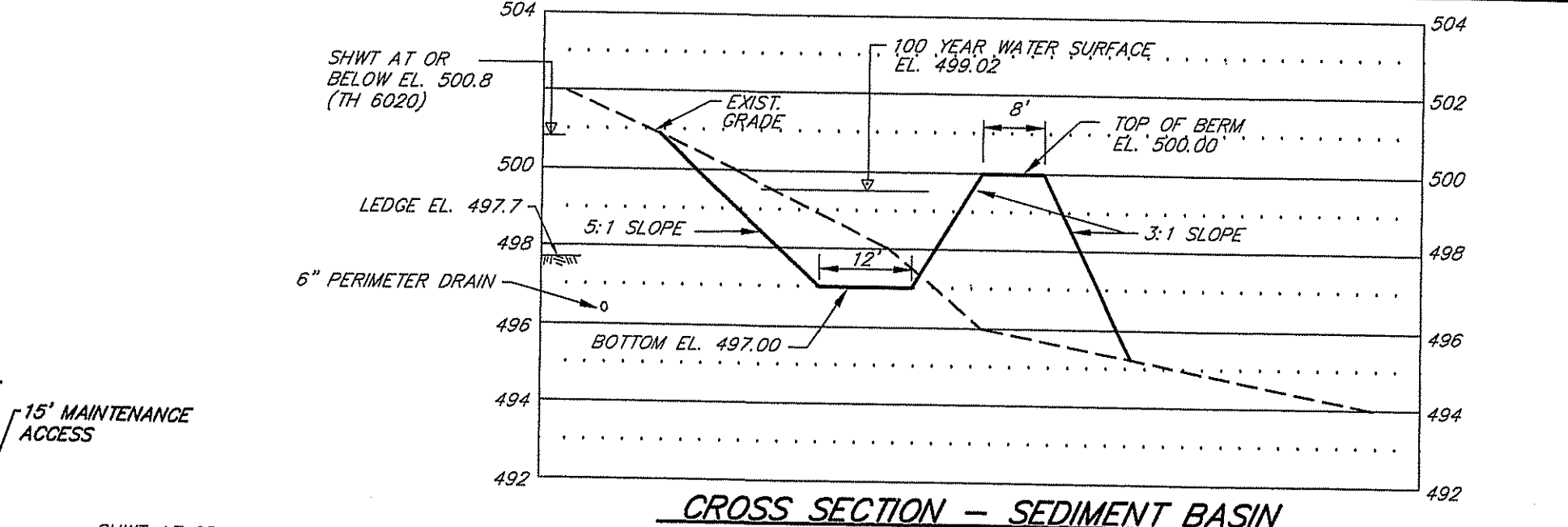
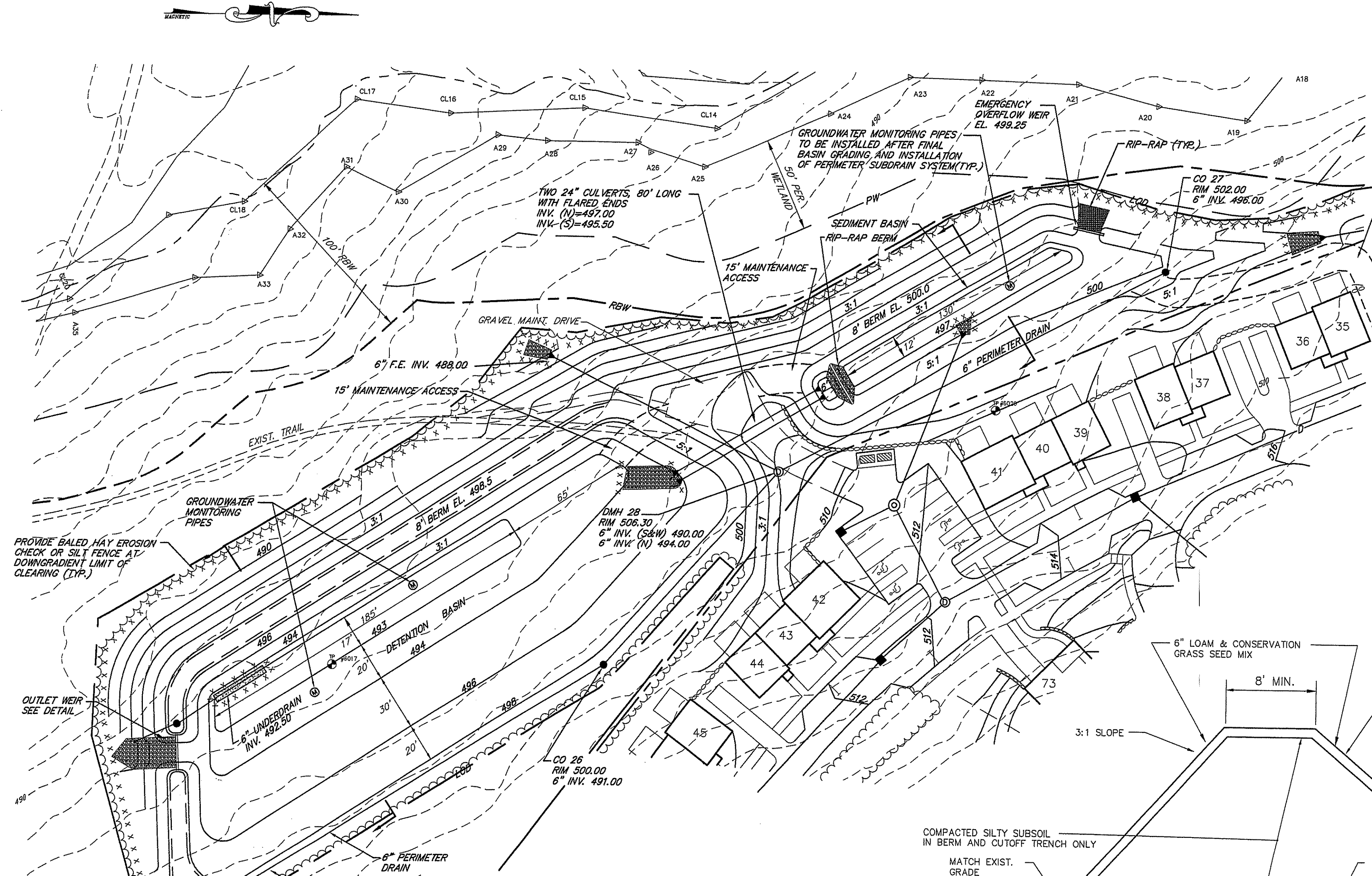
DATE	REVISION

**GREENRIDGE**  
 SOUTH MAIN STREET  
 ASSESSOR'S PLAT 210 LOT 23  
 BURRILLVILLE, RHODE ISLAND  
 PREPARED FOR:  
 NEIGHBORWORKS BLACKSTONE RIVER VALLEY  
 718 FRONT ST., SUITE 103  
 WOONSOCKET, RHODE ISLAND 02895



S.F.M. ENGINEERING ASSOCIATES  
 410 TIGUE AVENUE  
 COVENTRY, R.I. 02816  
 (401)826-3736

**PROFILE - 2**  
 DATE: JUNE 13, 2011 SCALE: AS NOTED SHEET 7 OF 11



- DETENTION BASIN NOTES**
- SLOPES OF BASIN SHALL BE 3:1(TYP.).
  - BOTTOM OF DETENTION BASIN SHALL HAVE A MINIMUM OF 6" LOAM, AND SHALL BE PLANTED WITH REED CANARY GRASS. ALL OTHER AREAS NOT RIP RAPPED SHALL HAVE A MINIMUM OF 6" LOAM, CONSERVATION SEED MIX AND STRAW MULCH.
  - DETENTION BASIN SHALL BE CONSTRUCTED AND STABILIZED PRIOR TO OTHER CONSTRUCTION. TEMPORARY DRAINAGE SHALL BE DIVERTED TO DETENTION BASIN OR TEMPORARY SEDIMENT BASINS.
  - ACCUMULATED SILTS AND SEDIMENTS SHALL BE REMOVED FROM THE DETENTION BASIN AS REQUIRED DURING SITE CONSTRUCTION, AFTER EVERY RAIN EVENT AND IMMEDIATELY PRIOR TO LOAMING AND SEEDING.
  - INLETS AND OUTLETS TO BASINS SHALL BE PROTECTED WITH HAY BALE EROSION CHECKS.
  - UNDERDRAINS SHALL BE PROTECTED WITH HAY BALE EROSION CHECKS UNTIL PERMANENT STABILIZATION IS ESTABLISHED. ACCUMULATED SILTS SHALL BE REMOVED AND CRUSHED STONE ENVELOPE REPLACED AS REQUIRED.
  - THREE GROUNDWATER MONITORING PIPES SHALL BE INSTALLED AFTER FINAL BASIN GRADING AND INSTALLATION OF PERIMETER SUBDRAIN SYSTEM. TWO SHALL BE LOCATED IN THE DETENTION BASIN AND ONE IN THE SEDIMENT FOREBAY AS SHOWN.

- DETENTION BASIN MAINTENANCE PLAN**
- THE DETENTION BASIN AND SEDIMENT FOREBAY SHALL BE MAINTAINED ACCORDING TO THE FOLLOWING SCHEDULE:
- THE GRASS ON THE BASIN (DIKE & SLOPES) SHALL BE MOWED THREE (3) TIMES DURING THE MONTHS OF MAY AND OCTOBER. MOWED HEIGHT OF VEGETATION SHALL NOT BE LESS THAN TWO INCHES. MOWING SHALL EXTEND TO LIMIT OF CLEARING OVER THE SUBDRAIN LINES.
  - THE INLET & OUTLET STRUCTURES TO THE BASIN SHALL BE KEPT CLEAN OF SILT AND DEBRIS. THE PIPES SHALL BE CLEANED AT THE THREE (3) MOWINGS AND ONCE DURING THE WINTER MONTHS.
  - ACCUMULATED SILT AND DEBRIS SHALL BE REMOVED FROM THE BASINS ONCE EVERY YEAR OR AS NEEDED.
  - ACCUMULATED SILT, SAND AND DEBRIS SHALL BE REMOVED FROM CATCH BASIN SUMPS AS REQUIRED BUT AT A MINIMUM OF TWO (2) TIMES A YEAR IN THE FALL AND SPRING.
  - SUBDRAIN PIPES SHALL BE INSPECTED ANNUALLY FOR CLOGGING, ROOTS AND DEBRIS SHALL BE REMOVED.
  - GROUNDWATER MONITORING PIPES SHALL BE READ EVERY SPRING TO ENSURE ONE FOOT SEPARATION BETWEEN BASIN BOTTOM AND SEASONAL HIGH GROUNDWATER TABLE. IF ONE FOOT SEPARATION IS NOT MAINTAINED, SUBDRAINS SHALL BE REDESIGNED AS NECESSARY.
  - BASINS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL APPROVAL OF CONSTRUCTION.
  - AFTER FINAL APPROVAL THE OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE.

- DRAINAGE NOTES**
- CATCH BASINS SHALL BE 4' I.D. PRECAST CONC. WITH 3' SLUMP R.I. STD. 4.4.0 TYPE 'H' IN PAVED AREAS, TYPE 'R' IN GRASS AREAS.
  - CATCH BASIN FRAMES & GRATES SHALL BE R.I. STD. 6.3.2. FRAME & GRATES SHALL BE SET 2" BELOW DESIGN GRADE UNTIL FINAL PAVEMENT COURSE IS TO BE INSTALLED. AT FINAL PAVING, RAISE FRAME & GRATE TO DESIGN GRADE.
  - MANHOLES SHALL BE 4' I.D. PRECAST CONC. R.I. STD. 4.2.0.
  - MANHOLE FRAMES & COVERS SHALL BE R.I. STD. 6.2.1.
  - DRAINAGE PIPING SHALL BE HDPE ADS-N-12 (OR EQUAL) UNLESS OTHERWISE SPECIFIED.
  - ROOF DRAINS SHALL BE 6" PVC OR ADS AT 5=01 (MIN).
  - CATCH BASINS SHALL BE CLEANED A MINIMUM OF TWICE PER YEAR (SPRING & FALL). REMOVED SILTS AND OIL SHALL BE DISPOSED AT A LICENSED WASTE FACILITY.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION & MAINTENANCE OF ALL DRAINAGE FACILITIES, AS PER THEIR RESPECTIVE PROGRAMS, UNTIL FINAL ACCEPTANCE OF CONSTRUCTION.
  - UPON FINAL ACCEPTANCE OF THE CONSTRUCTION, THE OWNER SHALL BE RESPONSIBLE FOR ALL DRAINAGE INSPECTION & MAINTENANCE.

**STORM WATER BASIN - DIMENSION TABLE**

DET. BASIN	ELEV. (FT.)	AREA (S.F.)	OUTLET DATA
SED. BASIN	497	1,640	TWIN 24" CULVERTS INV. 497.00
	498	2,980	10" OVERFLOW WEIR, EL. 498.25
	500	6,640	
DET. BASIN	493	3,130	12" DIA. ORIFICE, INV. 444.75
	494	9,700	10" OVERFLOW WEIR, EL. 497.50
	495	15,080	
	496	20,988	
	497	25,615	
	498	30,530	
	498.5	32,979	

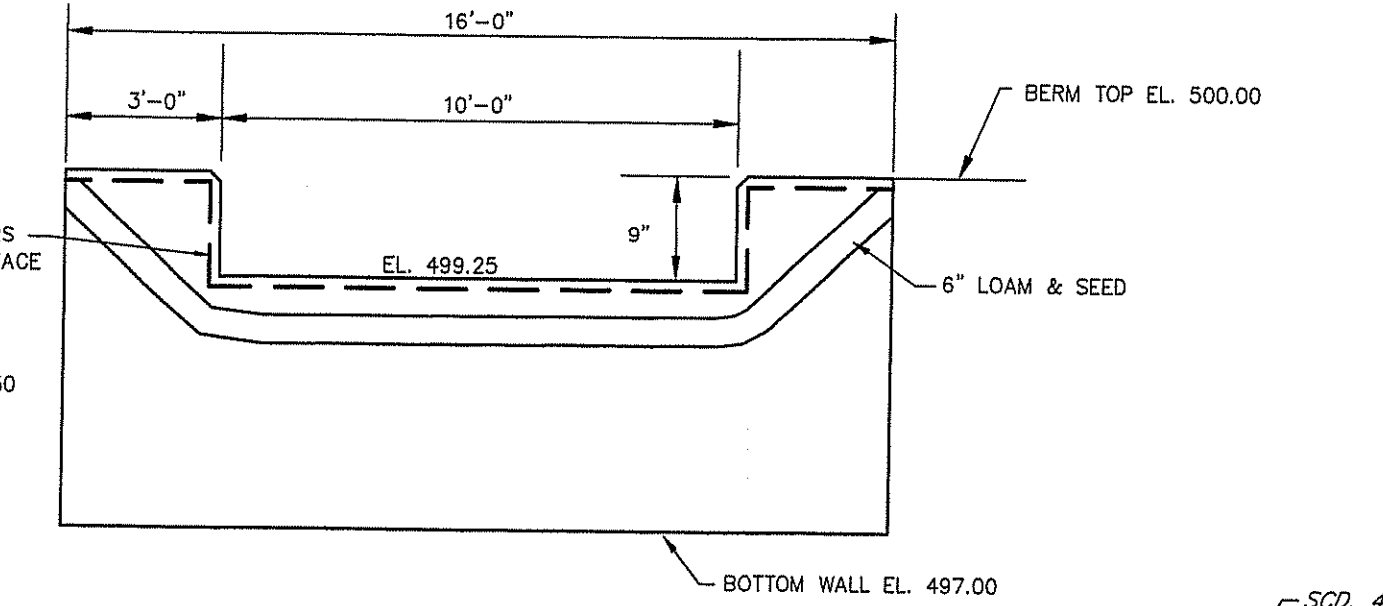
- CUTOFF TRENCH NOTES**
- CUTOFF TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 2' BELOW EXISTING GROUND LEVEL OR TO BEDROCK, WHICHEVER IS LESS.
  - BOTTOM WIDTH SHALL BE 4' (MIN.).
  - TRENCH AND BERM SHALL BE BACKFILLED AND COMPACTED IN LAYERS NOT TO EXCEED 6" IN THICKNESS.

**STORMWATER BASIN PLAN**

SCALE: 1" = 40'

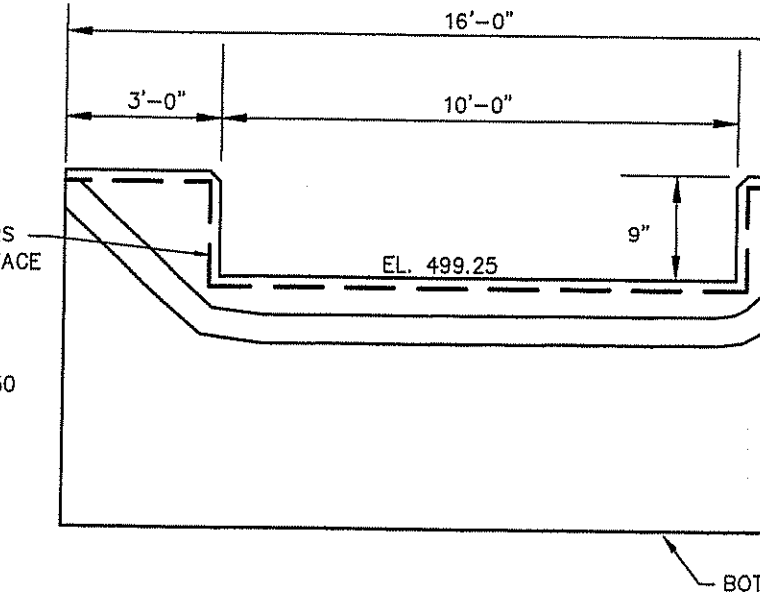
**STORM WATER BASIN BERM DETAIL**

NOT TO SCALE



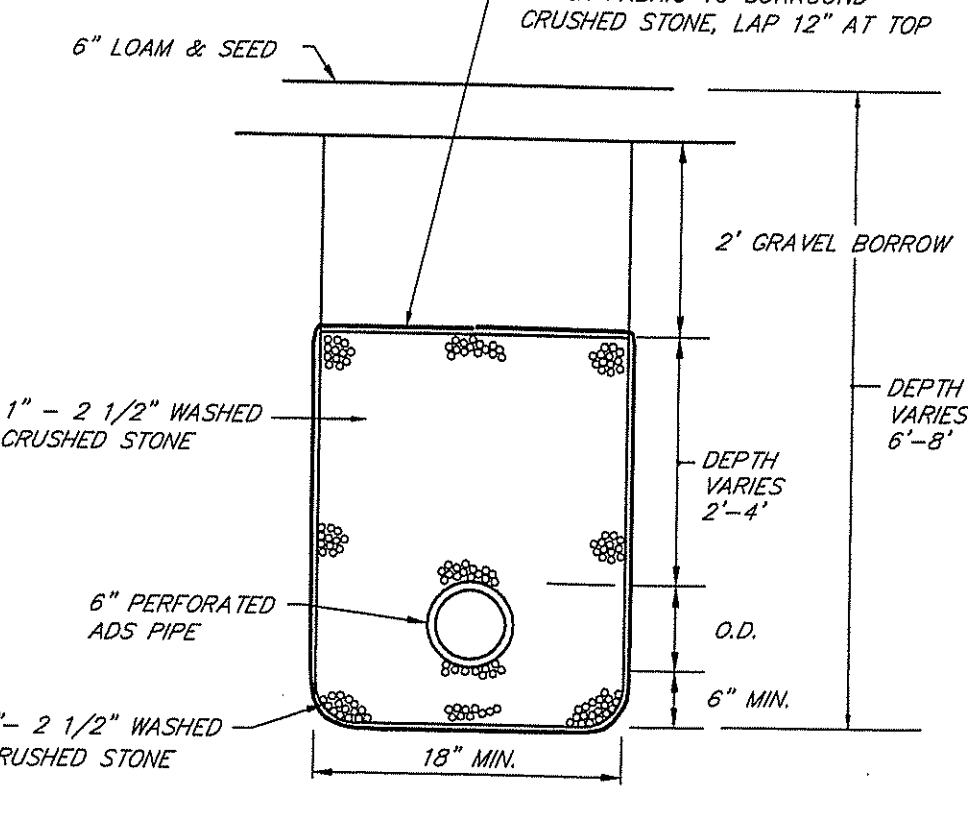
**SEDIMENT BASIN OVERFLOW WEIR**

NOT TO SCALE



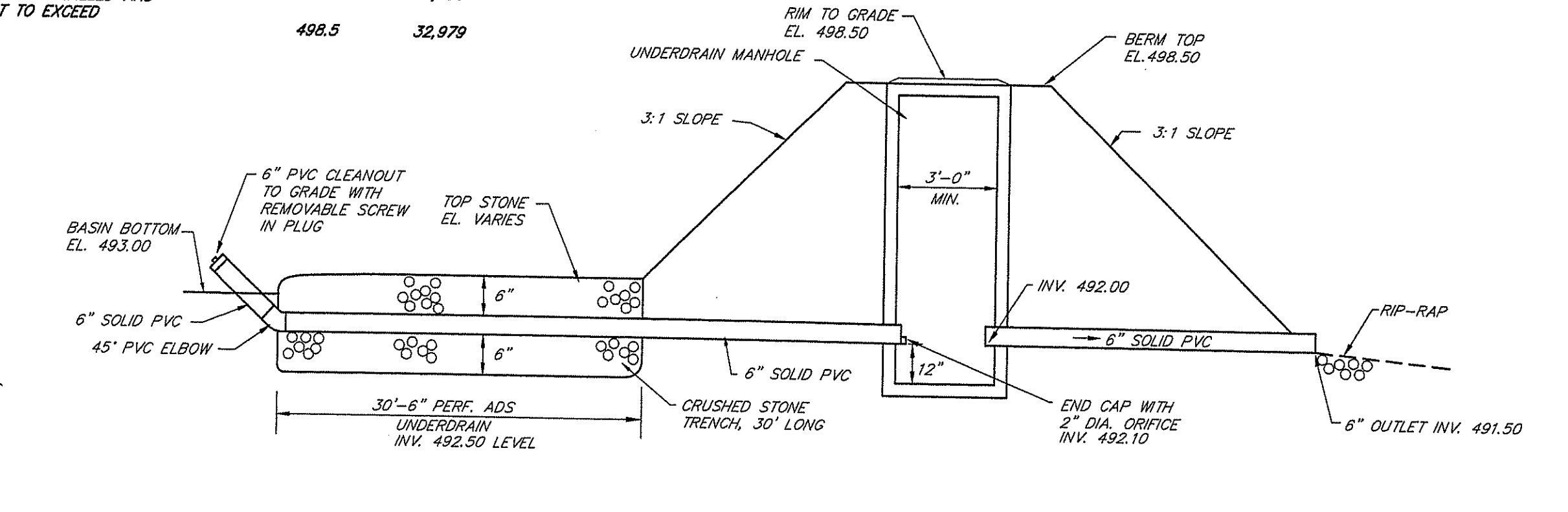
**DETENTION BASIN PERIMETER DRAIN DETAIL**

NOT TO SCALE



**UNDERDRAIN DETAIL - DETENTION BASIN**

NOT TO SCALE

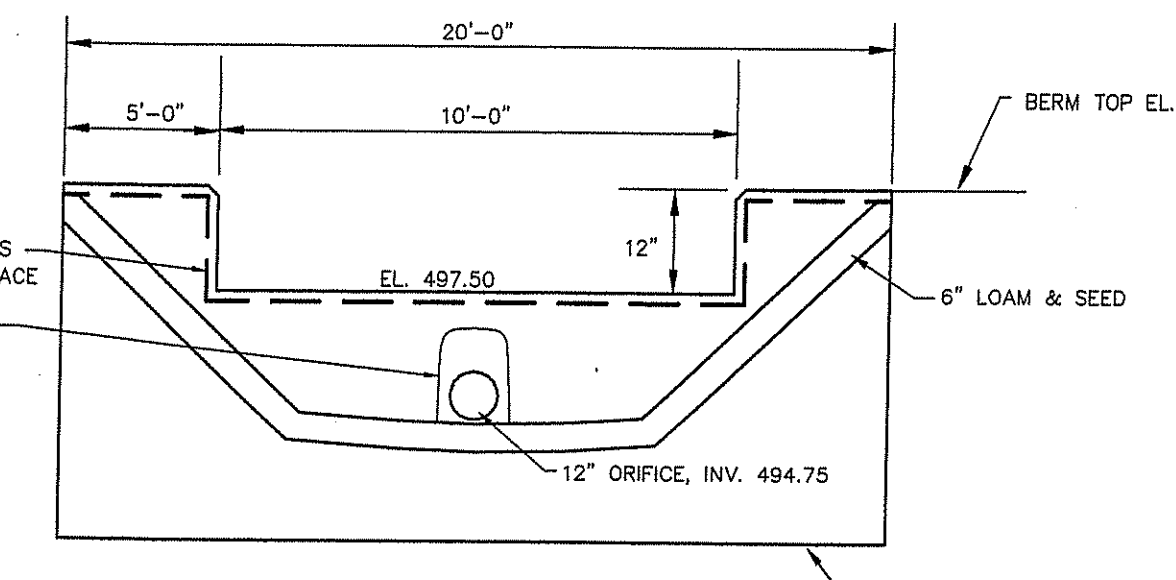


**TEST HOLE DATA**

TH #	SHWT	LEDGE
6016	499.0	494.0
6017	492.5	485.0
6020	500.8	497.7

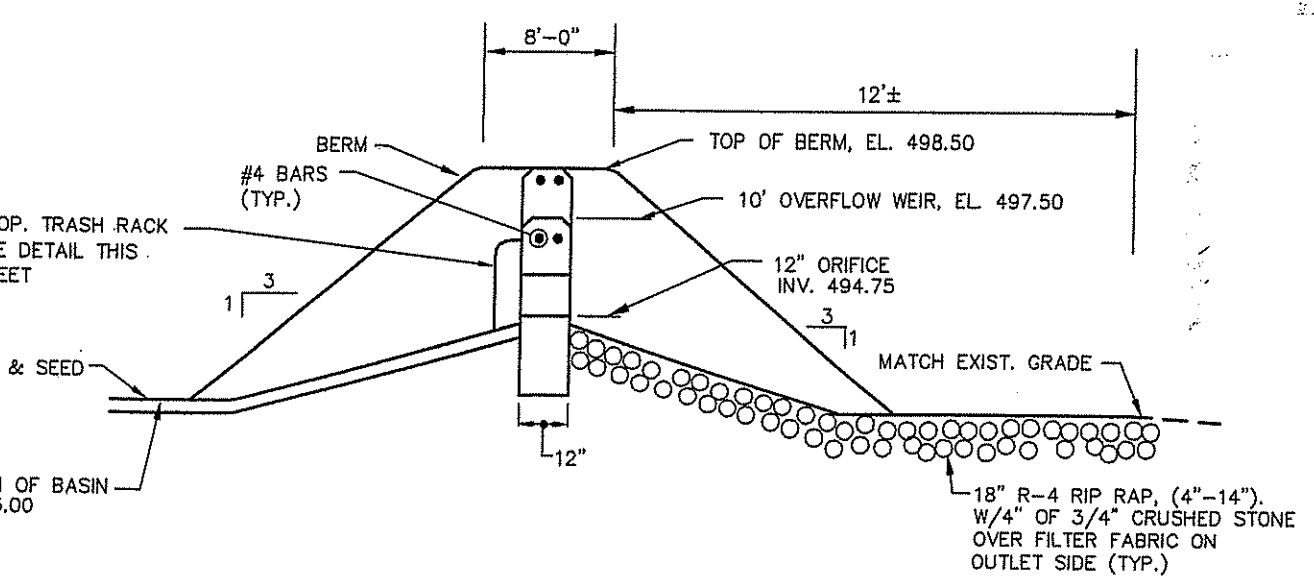
**DETENTION BASIN CONCRETE OVERFLOW WEIR WITH ORIFICE DETAIL**

NOT TO SCALE



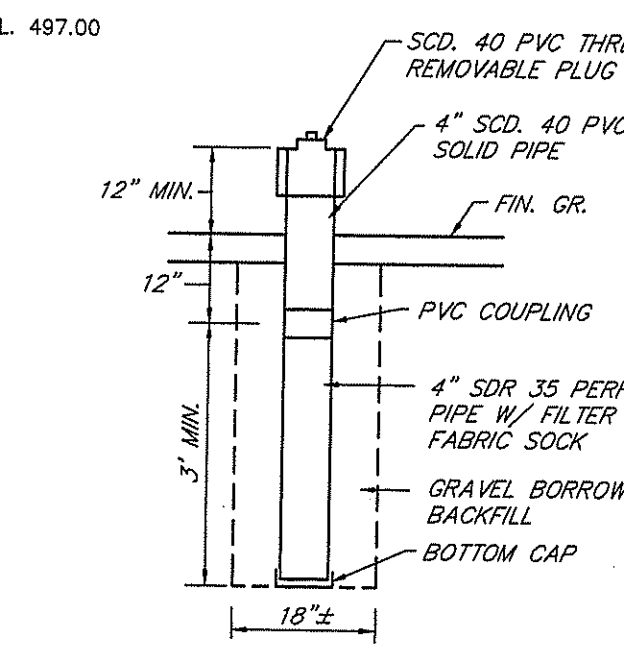
**CONCRETE OVERFLOW WITH ORIFICE DETAIL**

NOT TO SCALE



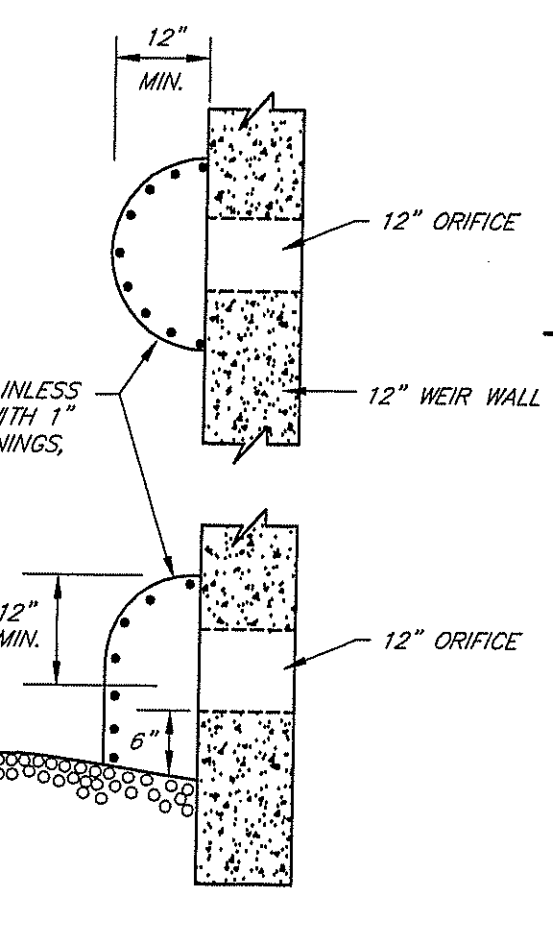
**GROUNDWATER MONITORING PIPE**

NOT TO SCALE



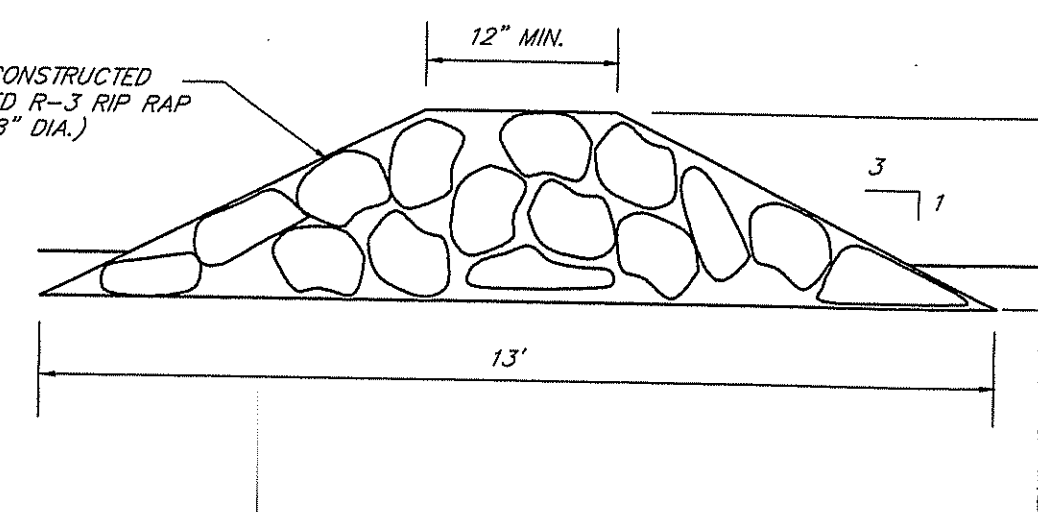
**TRASH RACK DETAIL**

NOT TO SCALE

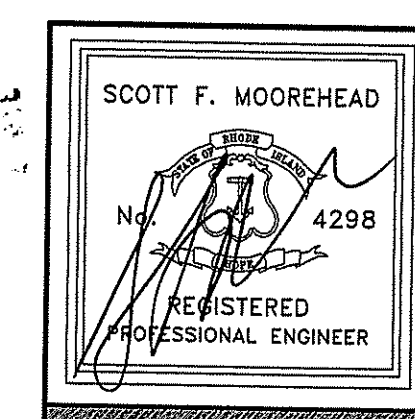


**SEDIMENT BASIN RIP RAP BERM**

NOT TO SCALE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED DEC 21 2011 FILE # 11-0116  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



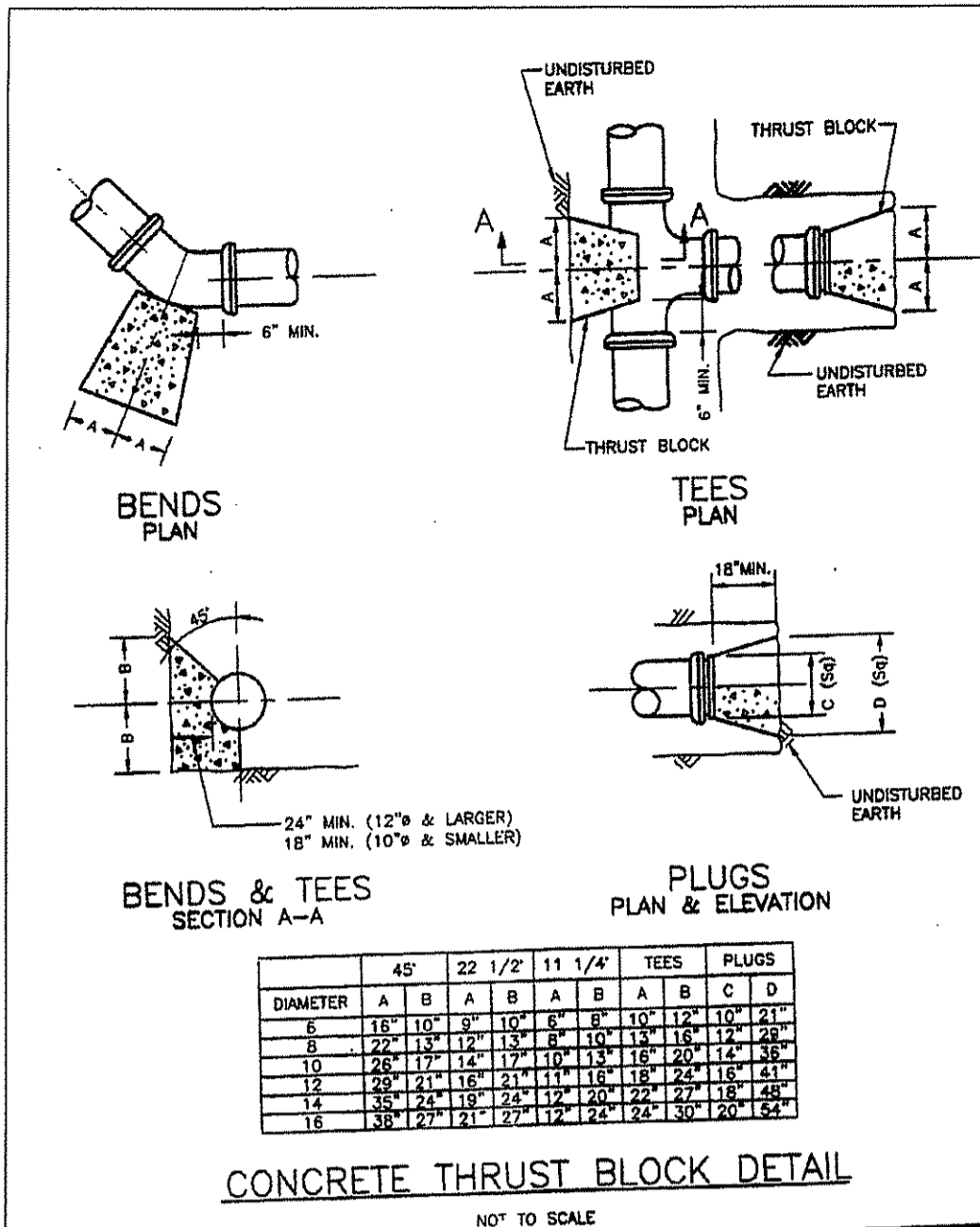
DATE	REVISION
10-6-11	FWW COMMENTS



S.F.M. ENGINEERING ASSOCIATES  
410 TIGUE AVENUE  
COVENTRY, R.I. 02816  
(401)826-3736

**GREENRIDGE**  
SOUTH MAIN STREET  
ASSESSORS PLAT 210 LOT 23  
BURRILLVILLE, RHODE ISLAND  
PREPARED FOR:  
NEIGHBORWORKS BLACKSTONE RIVER VALLEY  
719 FRONT ST., SUITE 103  
WOONSOCKET, RHODE ISLAND 02895

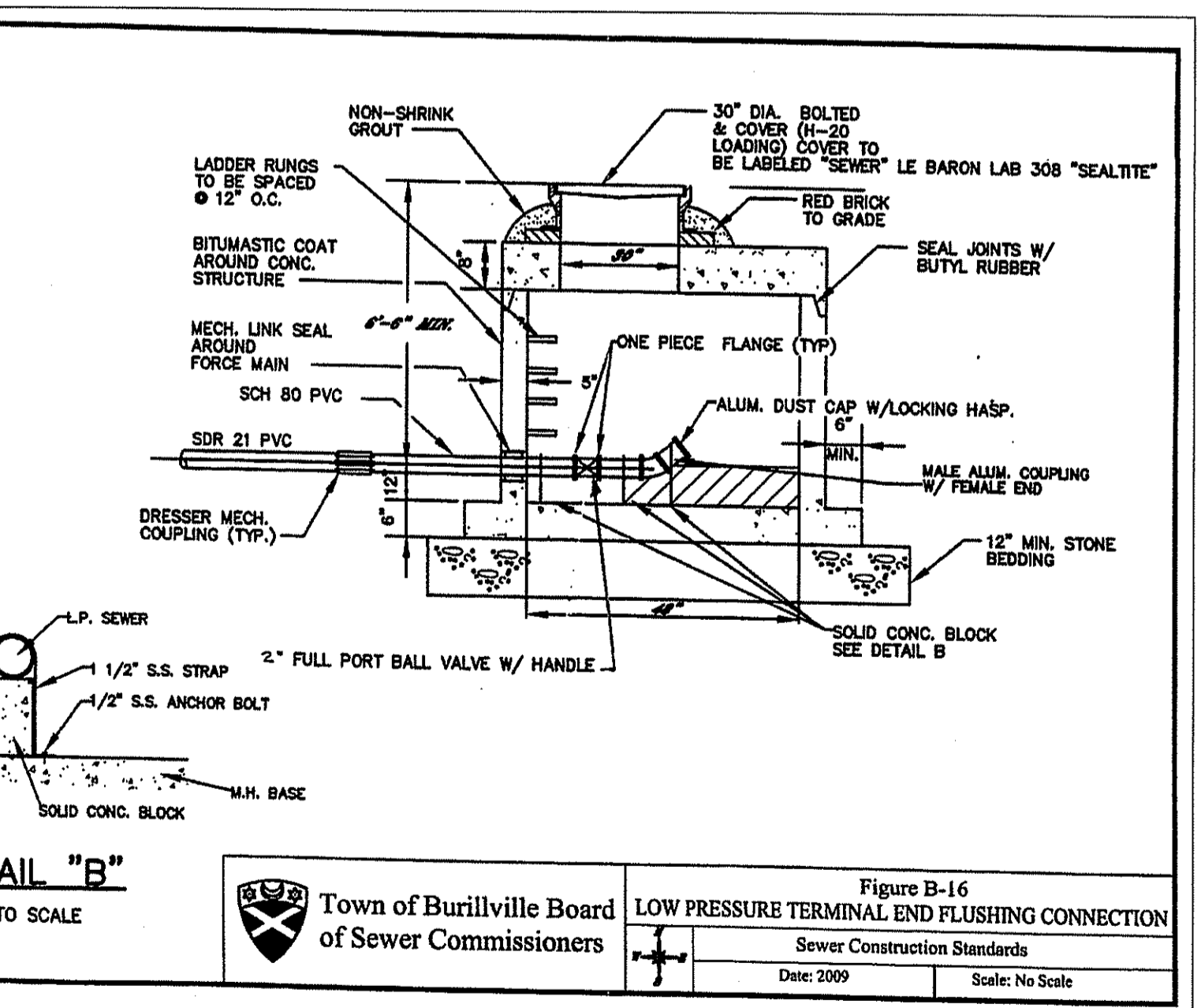
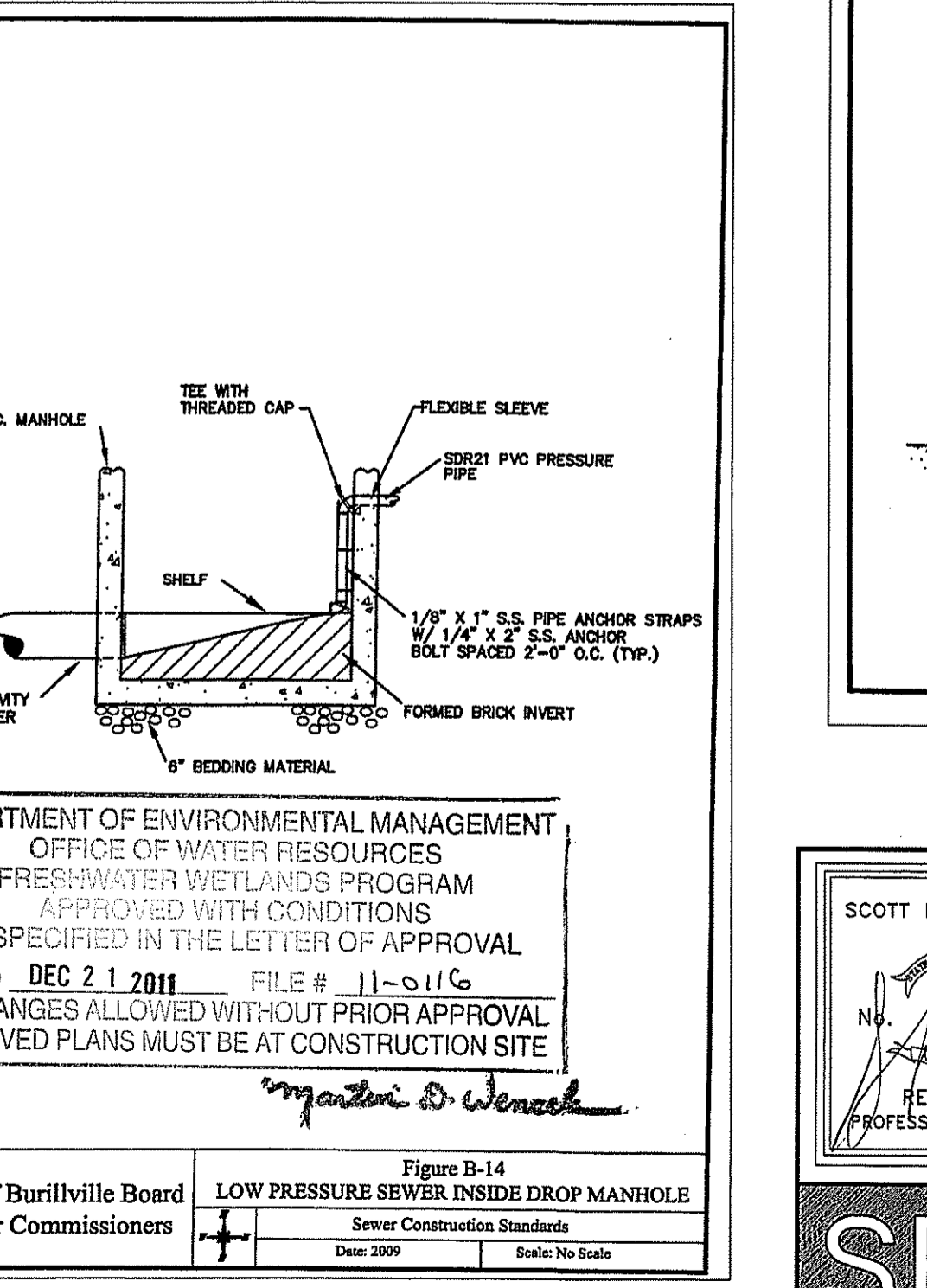
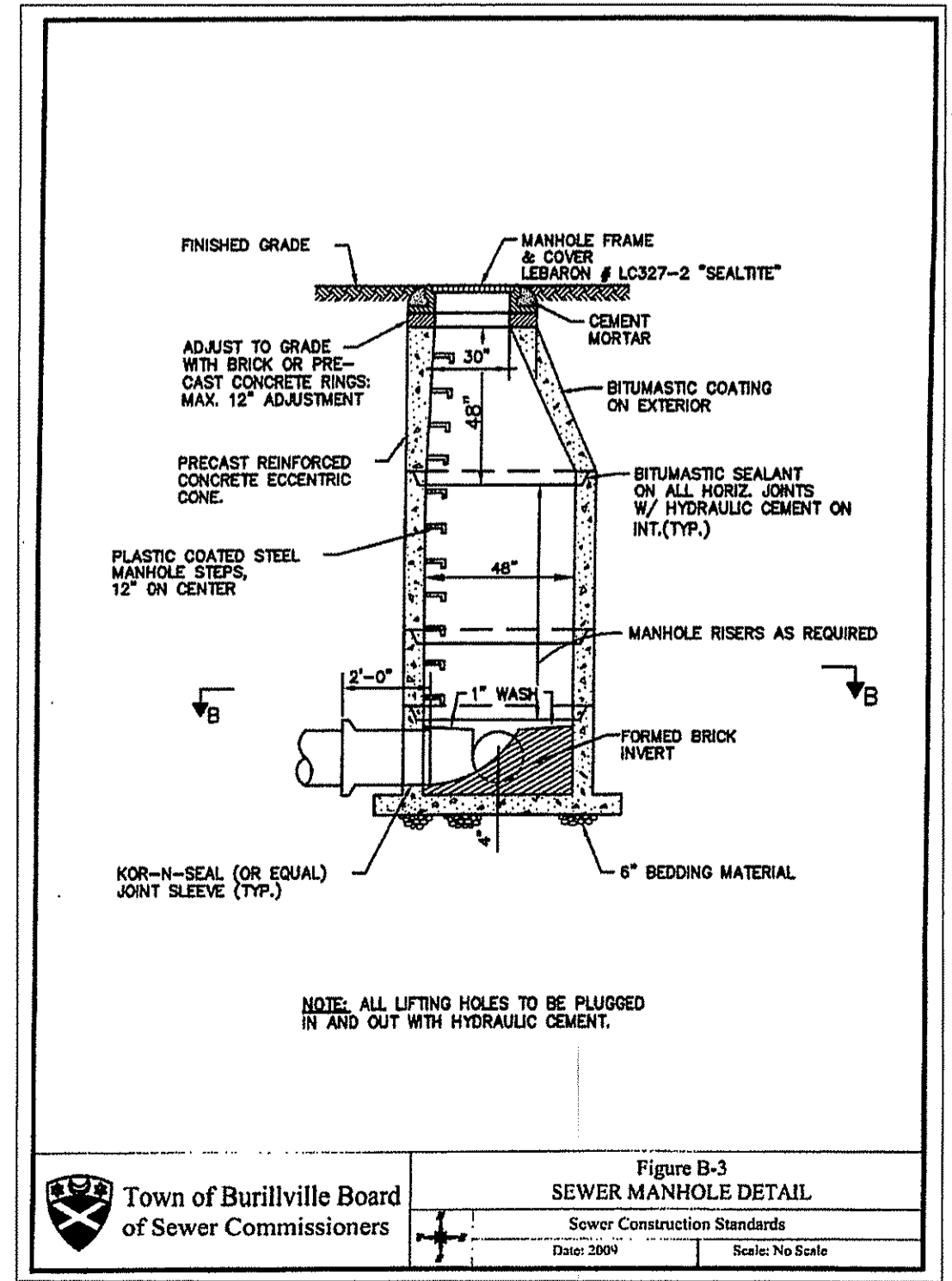
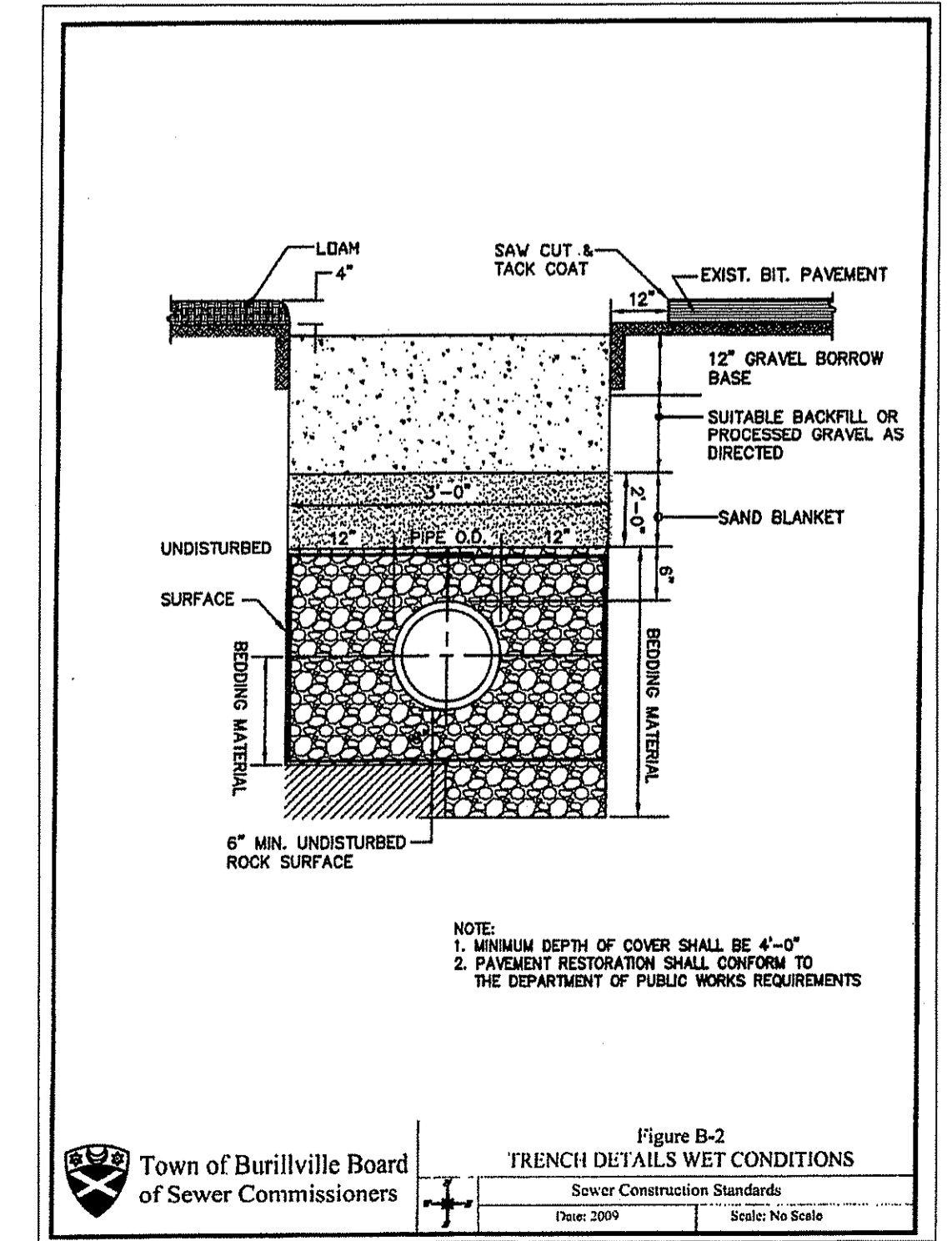
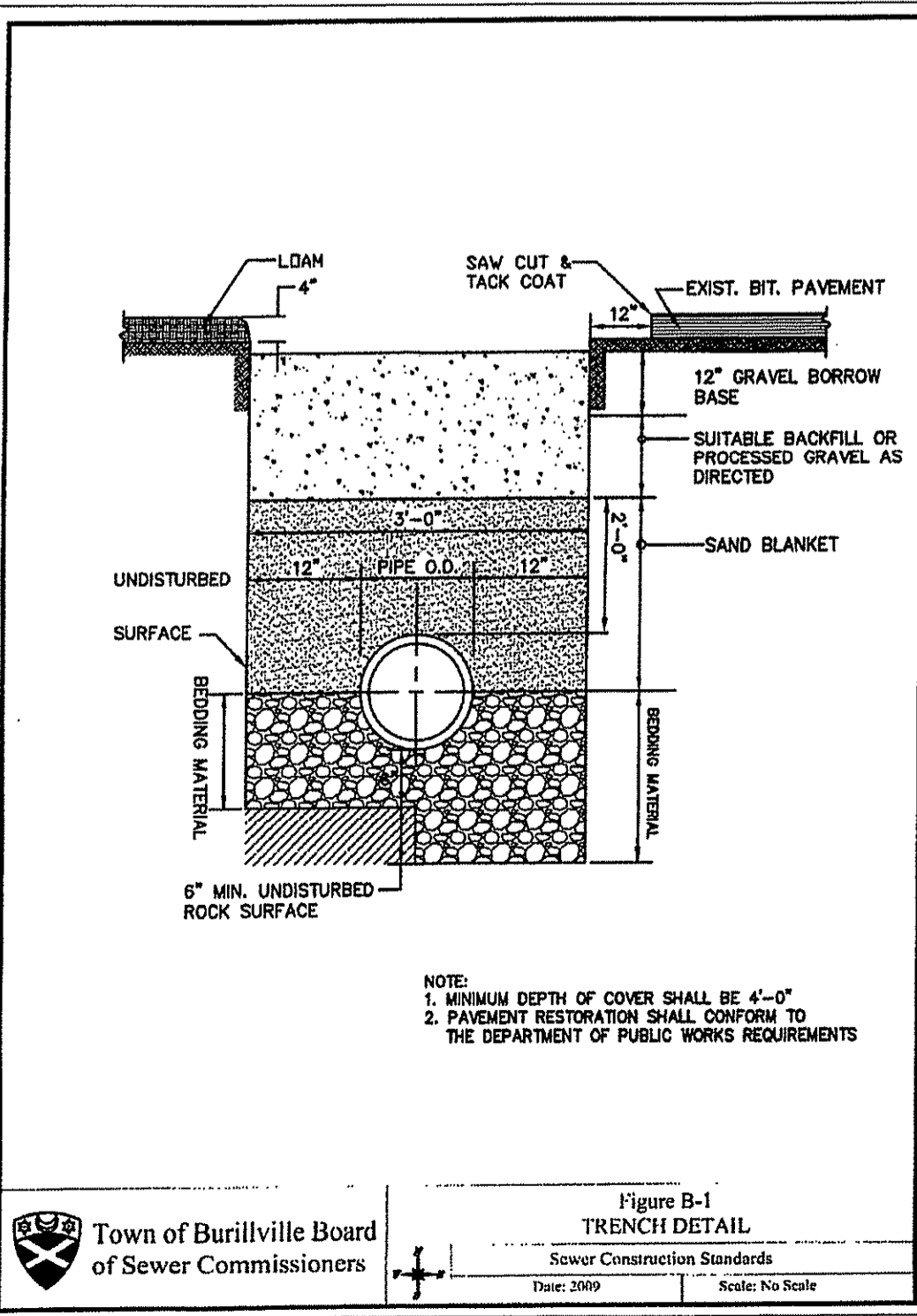
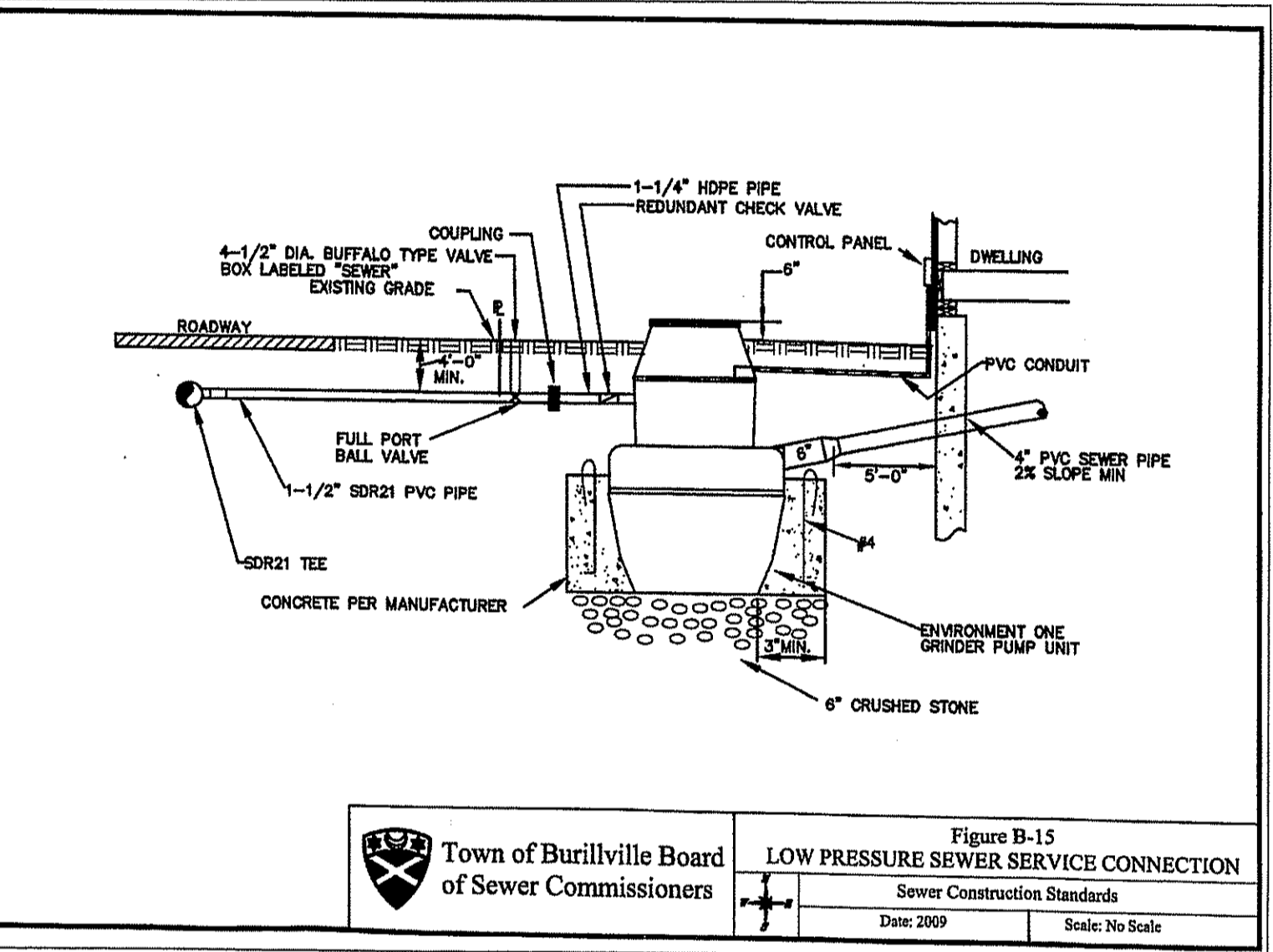
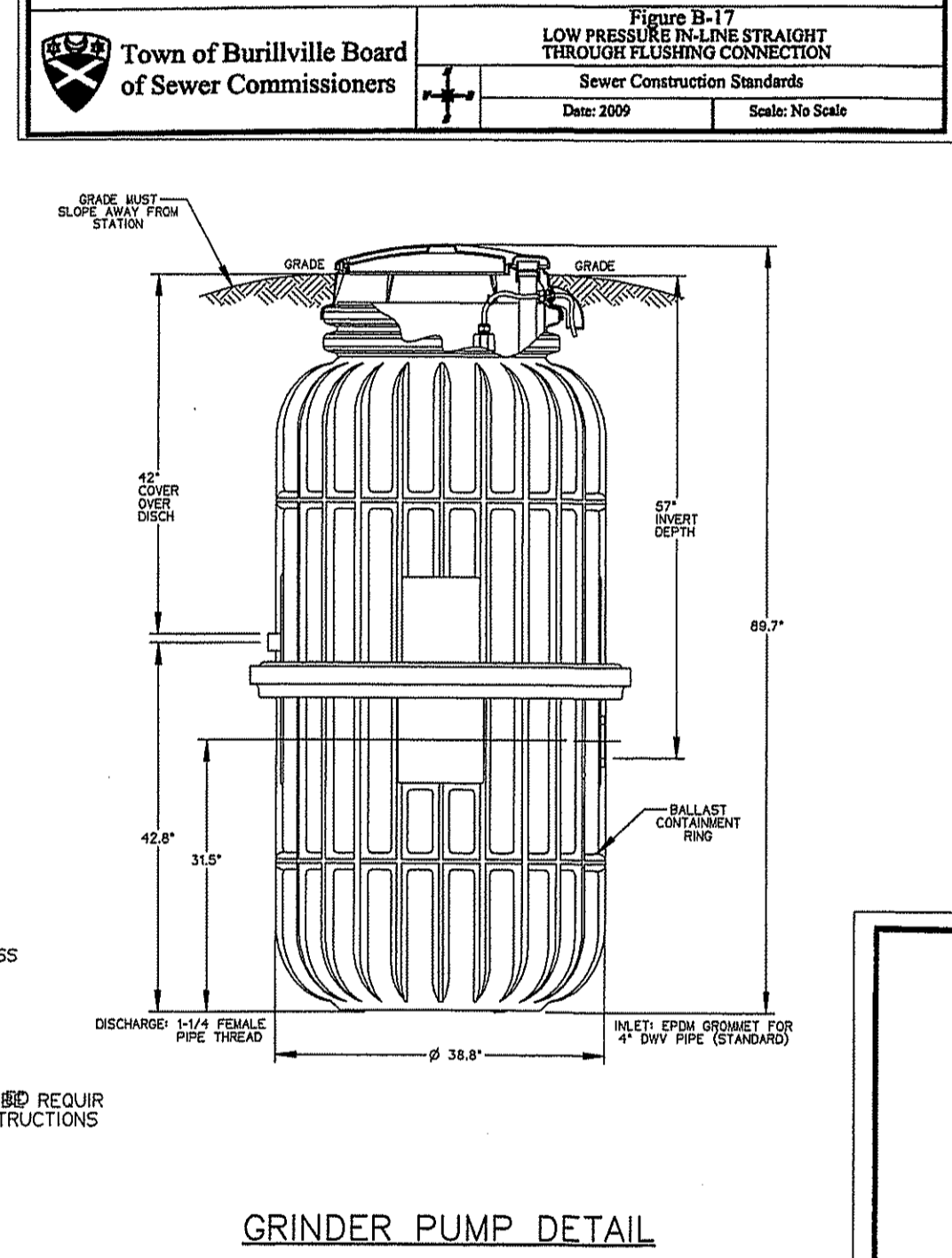
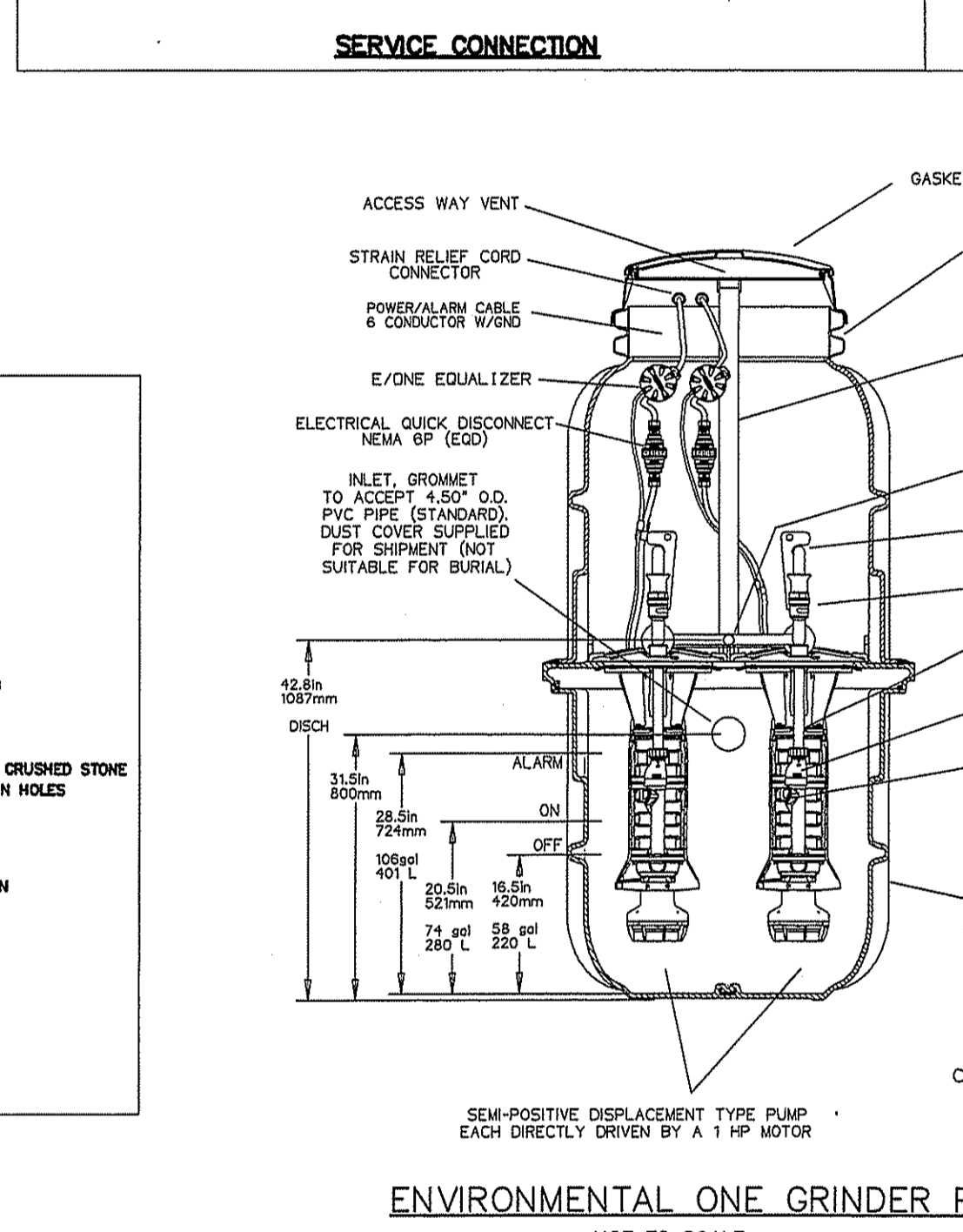
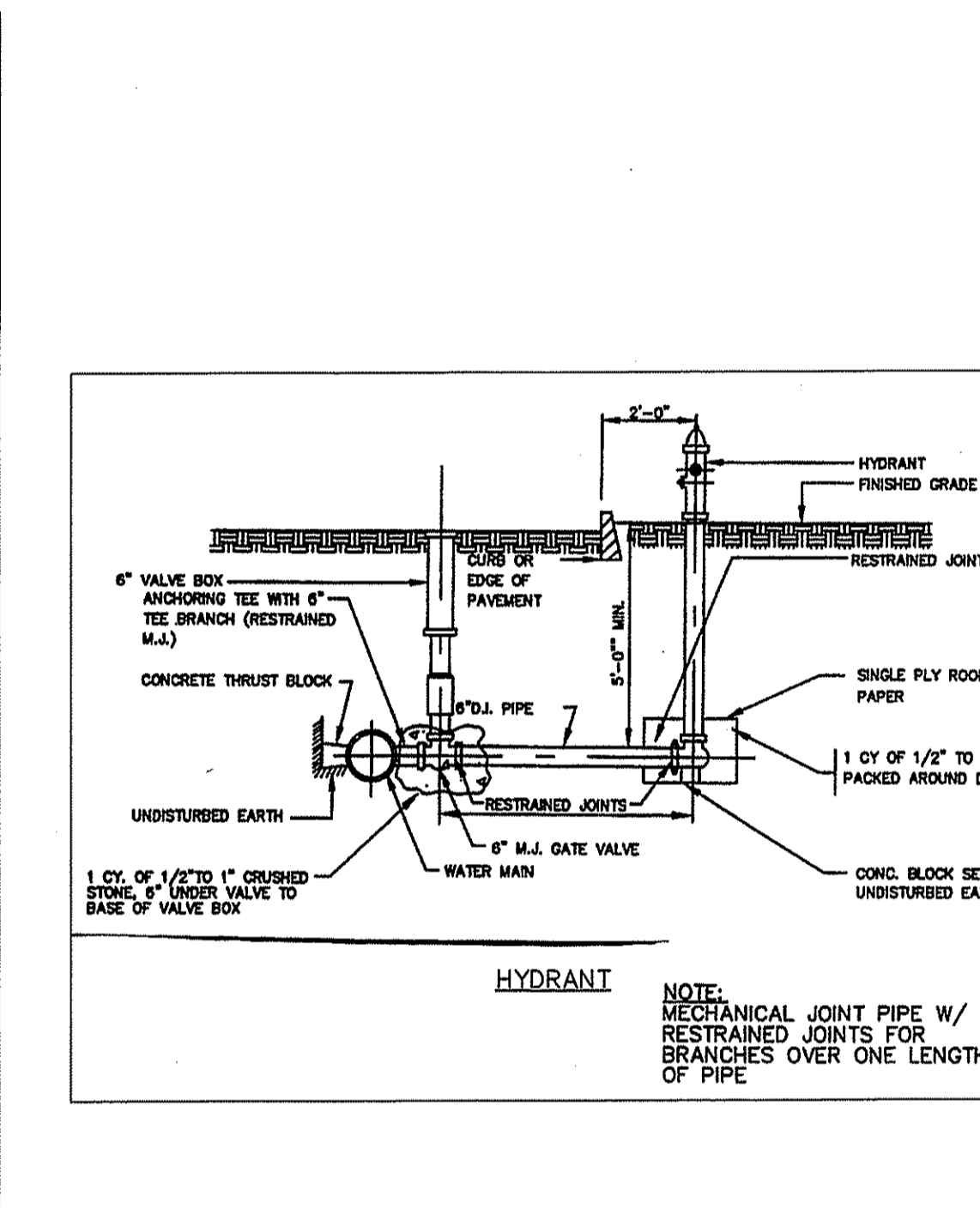
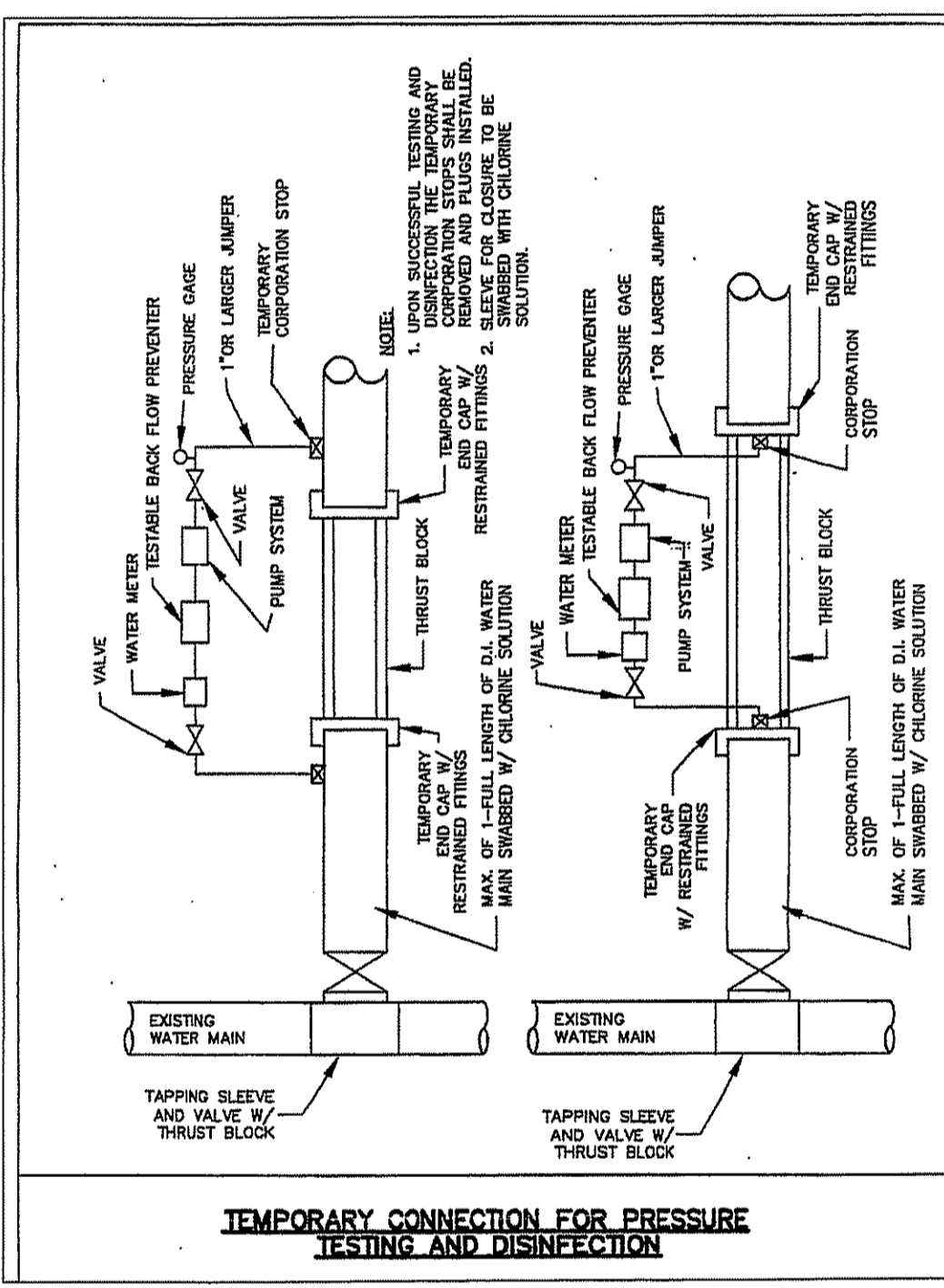
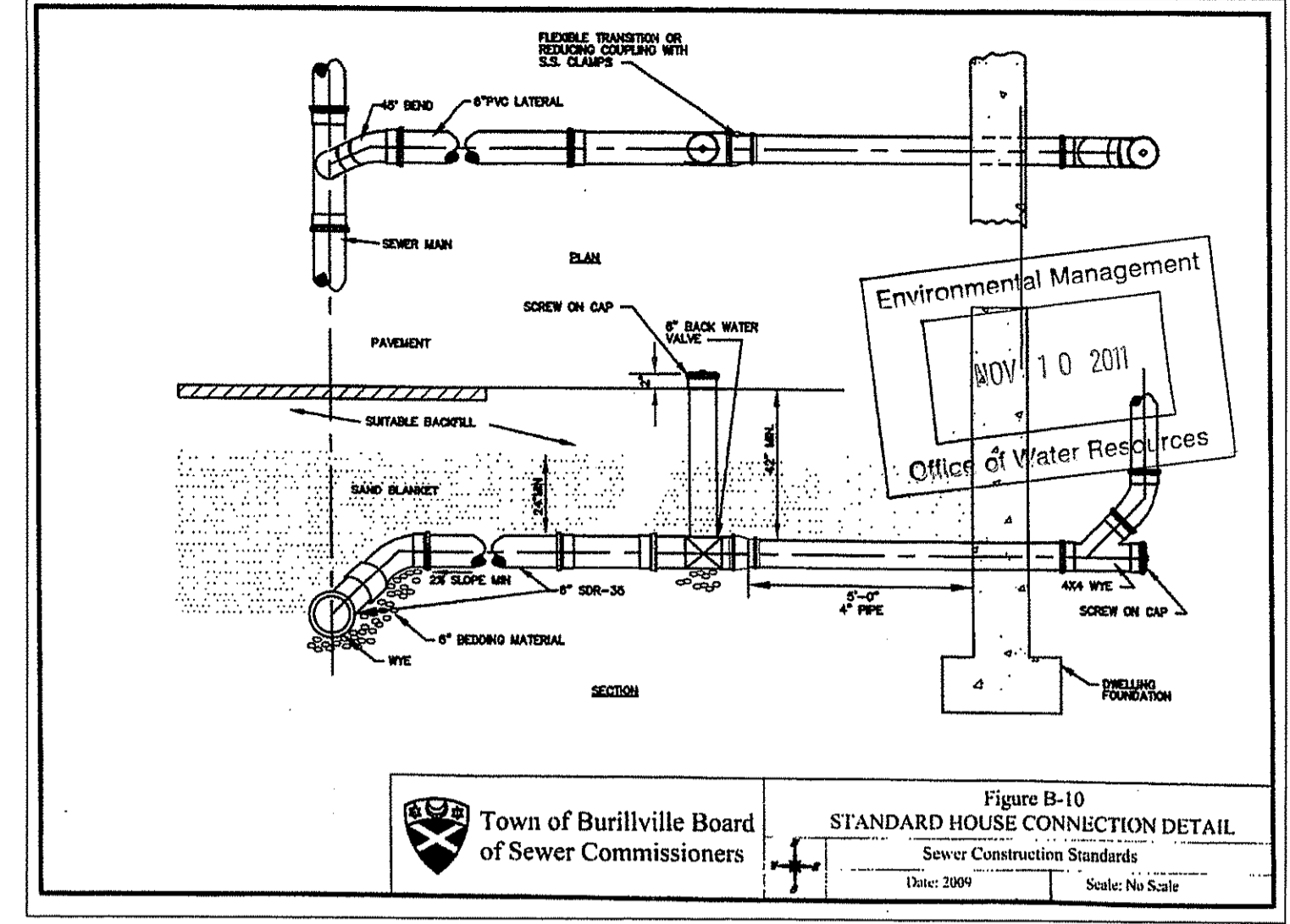
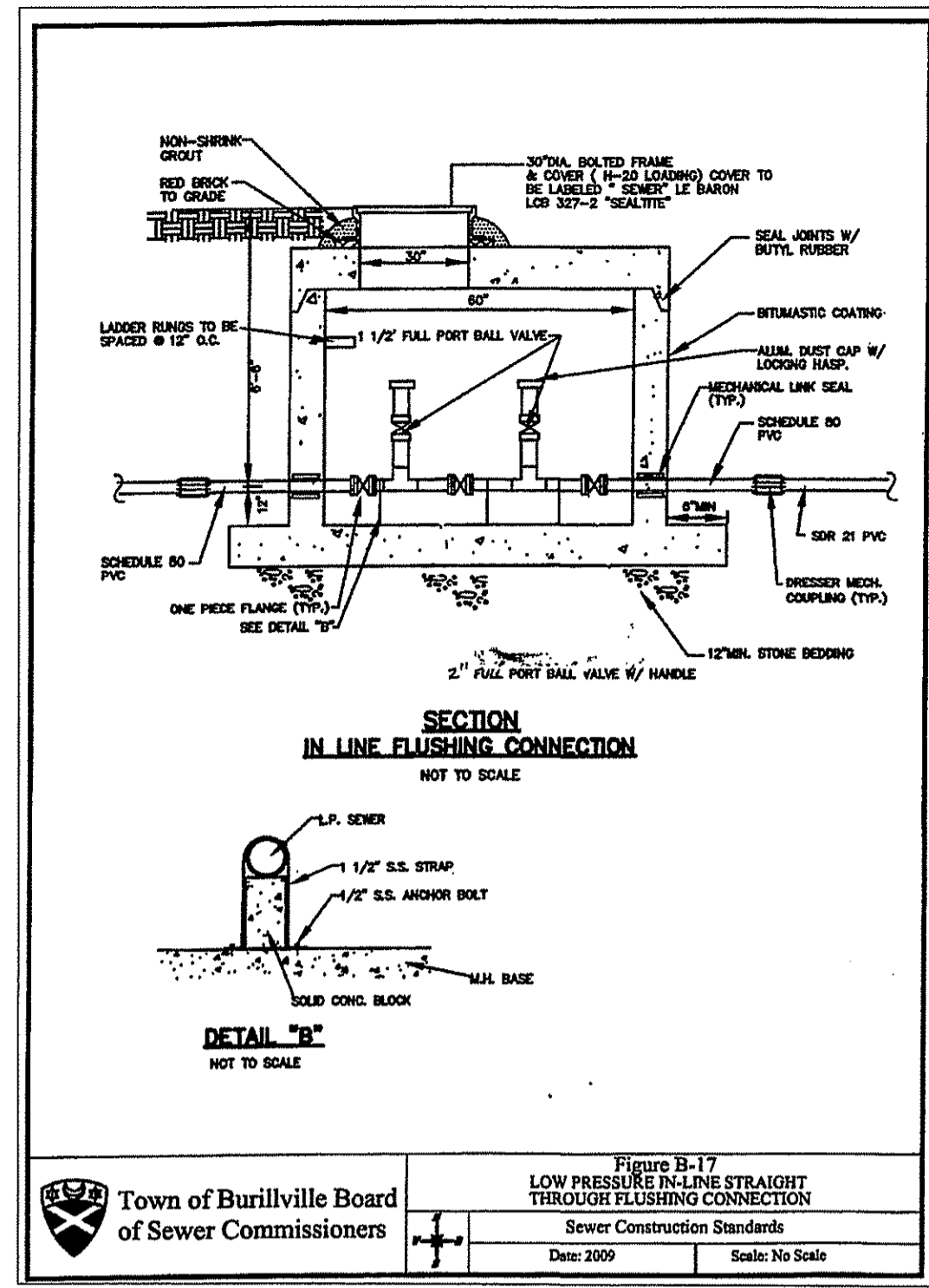
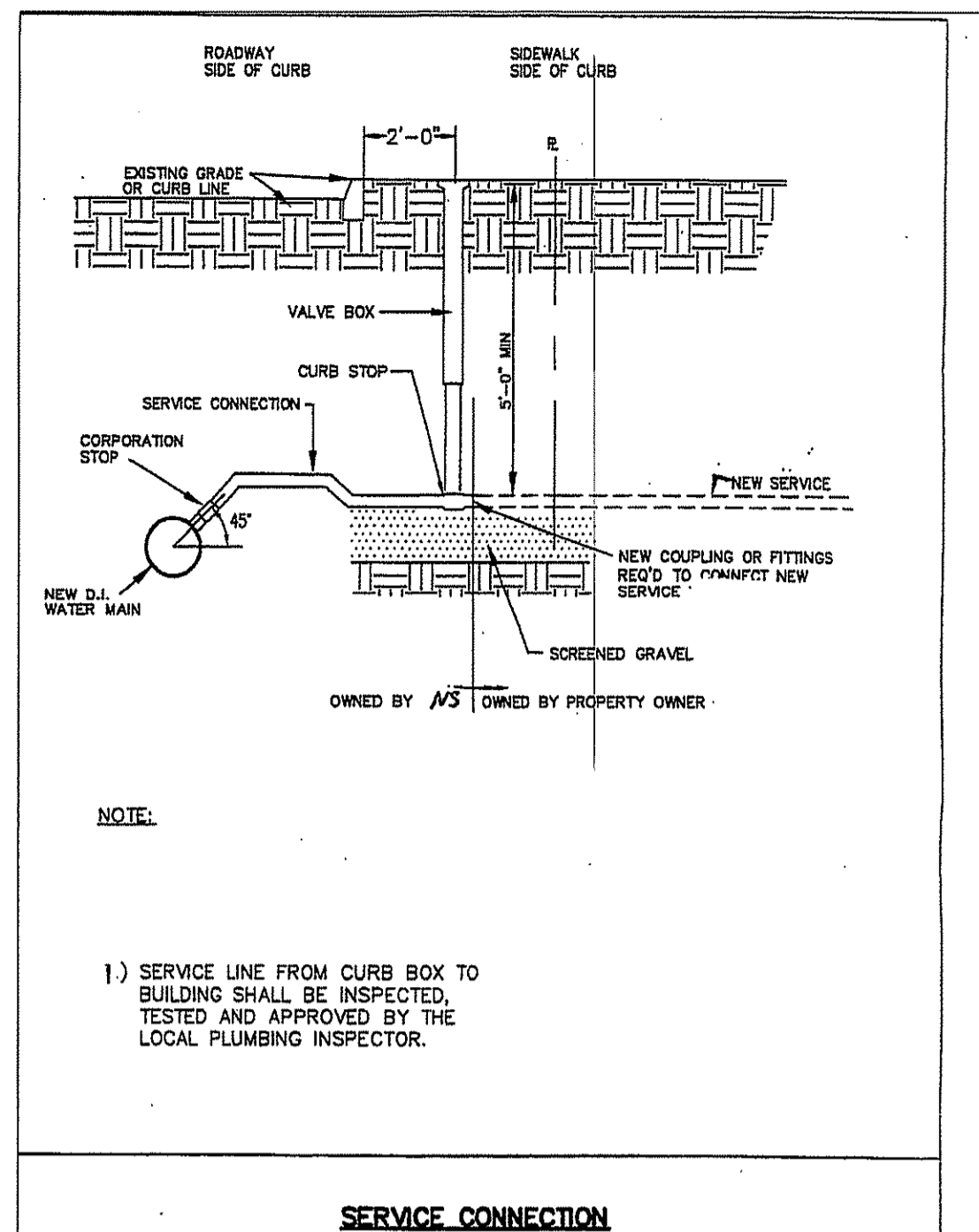
**DRAINAGE NOTES & DETAILS**



**RESTRAINED PIPE LENGTHS FOR RESTRAINED FITTINGS**

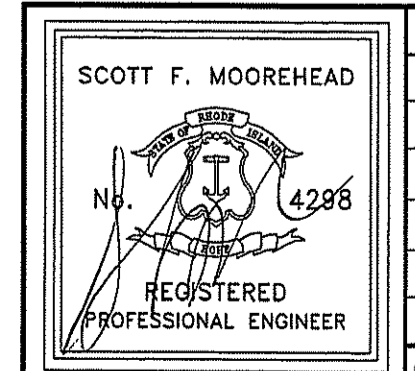
FITTING	RESTRAINED LENGTH
12" PLUG	94'
12" TEE	44'
12" 90°	56'
12" 45°	44'
12" 22 1/2°	22'
12" 11 1/4°	22'
8" PLUG	58'
8" TEE	44'
8" 90°	44'
8" 45°	22'
8" 22 1/2°	22'
8" 11 1/4°	22'
6" X 6"	44'
6" PLUG	44'
6" TEE	22'
6" 90°	22'
6" 45°	22'
6" 22 1/2°	22'
6" 11 1/4°	22'

NOTE:  
 1. ALL JOINTS, INCLUDING PIPE JOINTS, VALVE JOINTS, AND FITTING JOINTS SHALL BE RESTRAINED WITHIN THE LIMITS OF RESTRAINED LENGTHS LISTED ON THIS TABLE. MECHANICAL JOINT PIPE AND MECHANICAL RESTRAINTS WILL BE IN ACCORDANCE WITH THE ABOVE TABLE.  
 2. THE TABLE SHOWS LENGTHS OF PIPES WHICH MUST BE RESTRAINED ON BOTH SIDES OF THE FITTING.  
 3. ALL DEAD END PIPE SHALL BE PROPERLY RESTRAINED PRIOR TO PRESSURE TESTING.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESH-WATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED DEC 21 2011 FILE # 11-0116  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Martin D. Wencel*



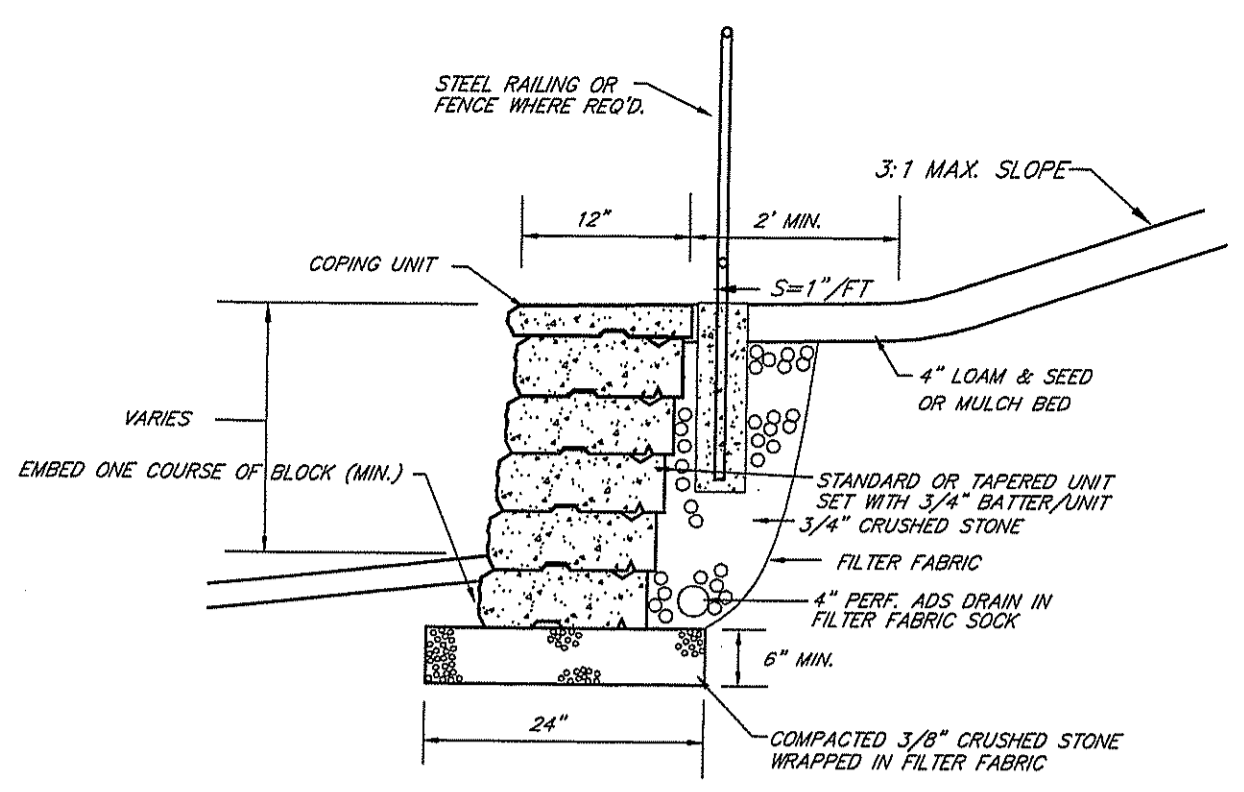
DATE	REVISION

**GREENRIDGE**  
 SOUTH MAIN STREET  
 ASSESSORS PLAT 210 LOT 23  
 BURRILLVILLE, RHODE ISLAND  
 PREPARED FOR:  
 NEIGHBORWORKS BLACKSTONE RIVER VALLEY  
 719 FRONT ST., SUITE 103  
 WOONSOCKET, RHODE ISLAND 02895



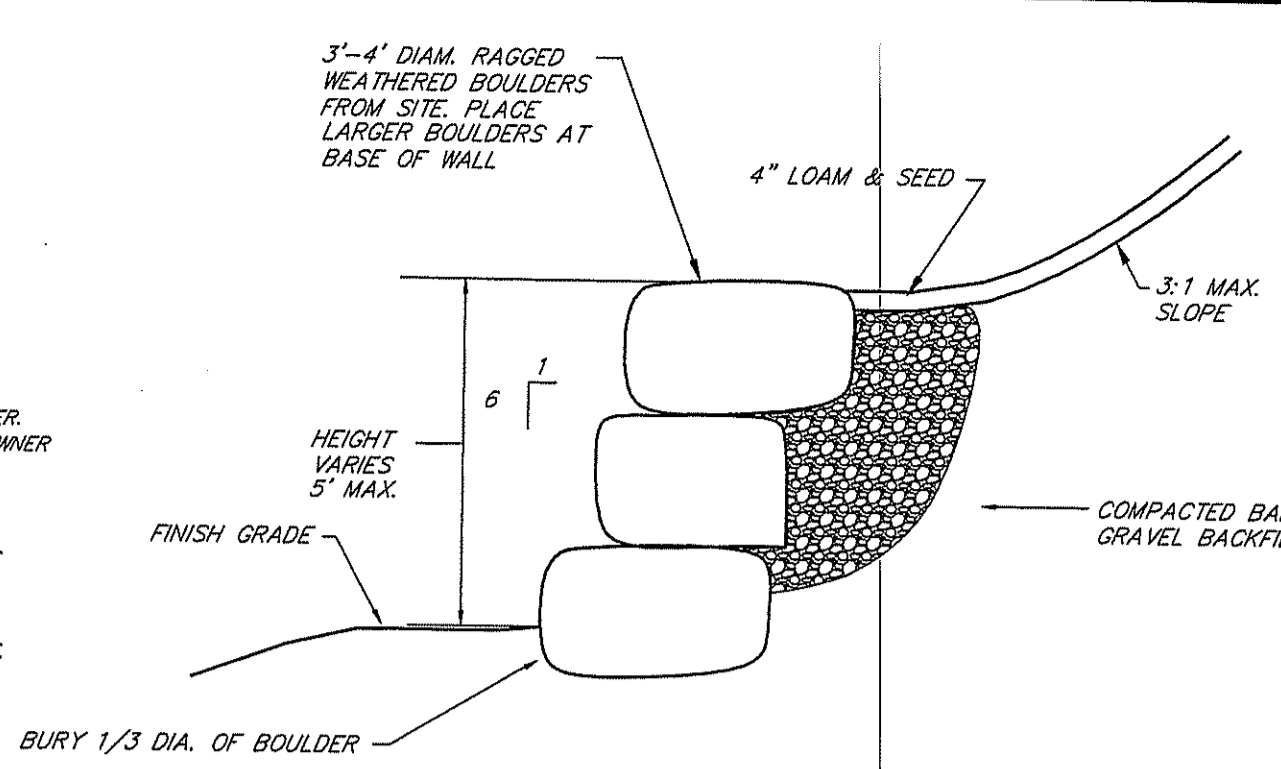
S.F.M. ENGINEERING ASSOCIATES  
 410 TOGUE AVENUE  
 COVENTRY, R.I. 02816  
 (401)826-3736



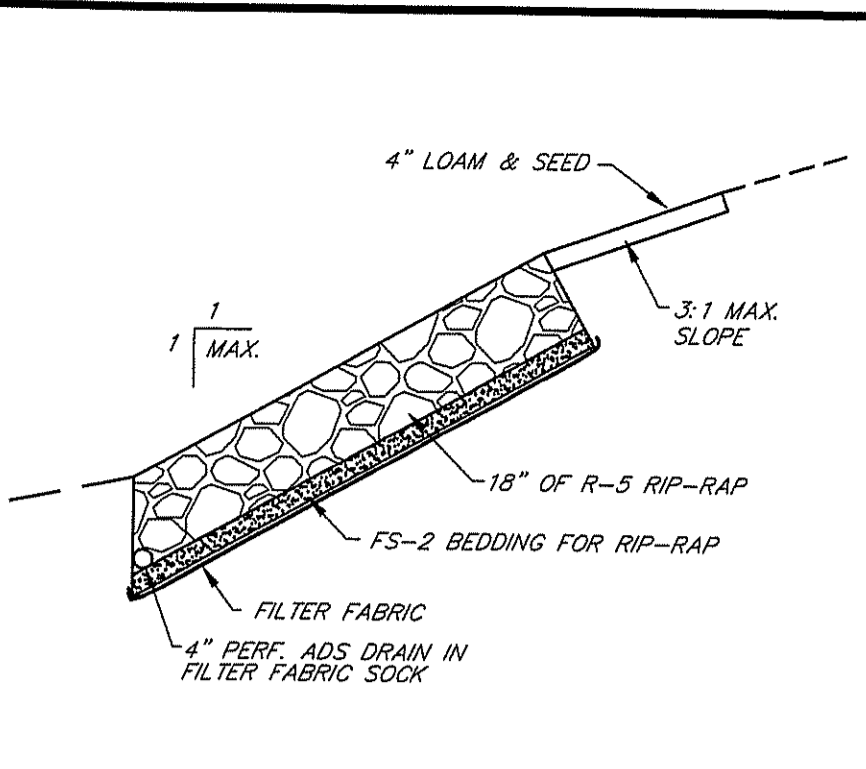


**RETAINING WALL DETAIL**  
NOT TO SCALE

- RETAINING WALL NOTES**
- RETAINING WALLS SHALL BE PRECAST CONCRETE SEGMENTAL BLOCK, UNLOCK PISA 2 OR EQUAL. WALLS SHALL BE DESIGNED TO MINIMIZE THE NEED FOR GEOTEXTILE REINFORCEMENT.
  - RETAINING WALLS SHALL BE CONSTRUCTED IN CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS.
  - RUN ADS DRAINS TO DAYLIGHT OR DRAINAGE SYSTEM. NO DRAINS SHALL BE INSTALLED WITHIN 25' OF ANY COMPONENT OF THE OWTS.
  - THE SITE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE THE WALLS DESIGNED BY A R.I. REGISTERED GEOTECHNICAL ENGINEER. WALL DESIGN AND MATERIALS SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION. POST CONSTRUCTION CERTIFICATION SHALL BE PROVIDED BY THE GEOTECHNICAL ENGINEER.
  - WALL DETAILS ARE SHOWN FOR DESIGN INTENT ONLY. WALL CONSTRUCTION SHALL COMPLY WITH THE DESIGN DETAILS PROVIDED BY THE GEOTECHNICAL ENGINEER.
  - PEDESTRIAN RAILINGS OR FENCE SHALL BE PROVIDED FOR ALL WALLS HIGHER THAN 28" AS REQUIRED BY THE BUILDING CODE.



**BOULDER RETAINING WALL DETAIL**  
NOT TO SCALE



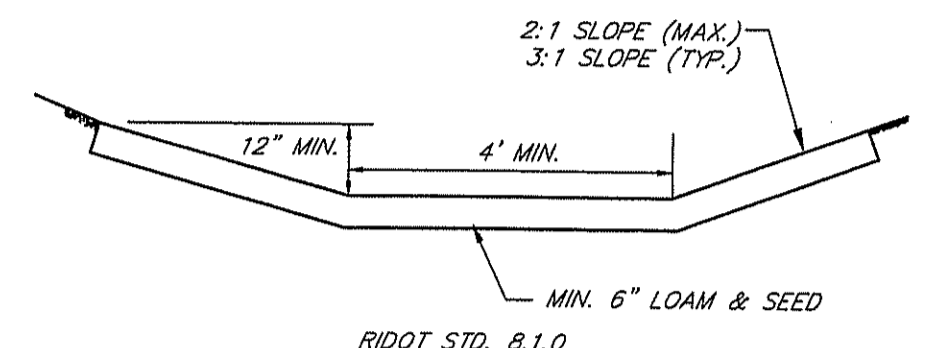
**STONE RIP-RAP SLOPE DETAIL**  
NOT TO SCALE

**ROCK STABILIZATION PAD AT CONSTRUCTION ENTRANCE**  
NOT TO SCALE

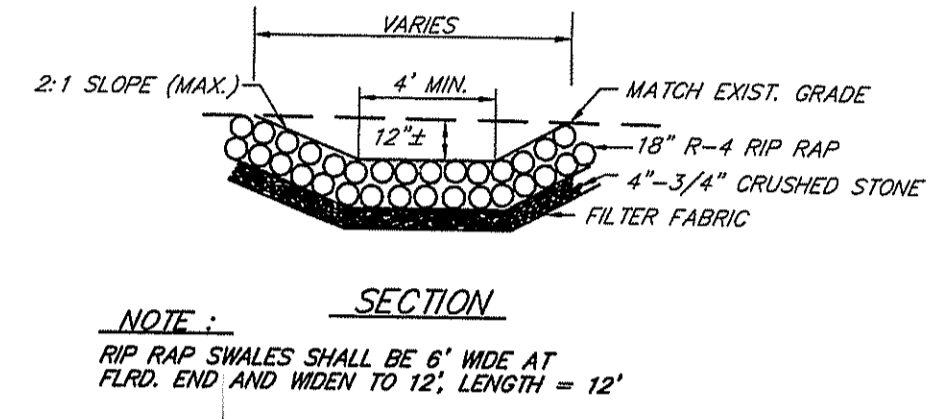
4" (MIN.) OF CRUSHED STONE	RIDOT 2" CRUSHED STONE OR GRAVEL	% FINER
2 1/2"	100	
2"	95-100	
1 1/2"	30-55	
1 1/4"	0-25	
1"	0-5	

6" GRAVEL BASE OR FILTER FABRIC

REFERENCE R.I. SOIL EROSION & SEDIMENT CONTROL HANDBOOK CHAPTER 5 SECTION D  
INSTALL PER R.I. STD. DETAIL 9.9.0



**GRASS SWALE DETAIL**  
NOT TO SCALE



**RIP RAP @ FLARED END**  
NOT TO SCALE

**GENERAL NOTES**

- ALL WORK WITHIN THE STATE HIGHWAY SHALL CONFORM TO THE REQUIREMENTS OF THE RIDOT PAP AND SHALL CONFORM TO THE REQUIREMENTS OF DEC. 2010 R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE DEC. 1, 2010 R.I. STANDARD SPECIFICATIONS AND ADDENDUMS AND ADDITIONAL TEST RIDOT SPECIFICATIONS AND DETAILS ARE AVAILABLE ONLINE AT WWW.RIDOT.RI.GOV/ENGINEERING/STANDARDS/INDEX.ASP.
- EMBANKMENT SLOPES AND ALL DISTURBED AREAS ARE TO RECEIVE 4" OF TOPSOIL AND SEEDING. SEE EROSION CONTROL PROGRAM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
- IN ALL EXCAVATION AND REPLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.
- ALL EXCESS SOIL, STUMPS, TREES, ROCKS, BOULDERS AND OTHER REFUSE SHALL BE DISCARDED OFF SITE OUTSIDE OF ALL WETLANDS AND WETLANDS SETBACK AREAS UNLESS OTHERWISE SPECIFIED.
- ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF ALL STATE AND TOWN REGULATIONS AND PERMITS.

**SEDIMENTATION CONTROL PROGRAM**

- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY SEDIMENTS FROM ENTERING THE WETLANDS OR ADJOINING PROPERTIES.
- BANKS OR SLOPES OVER 5 PERCENT SHALL BE SEEDED AS SOON AS POSSIBLE AND SHALL BE PROTECTED WITH A HAY, STRAW OR FIBER MULCH.
- DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
- SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
- CARE SHALL BE TAKEN SO NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECT TO STORM WATER FLOW.
- ADDITIONAL HAYBALES, SILT FENCE OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
- REFERENCE THE "R.I. EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE, 1989, AS A GUIDE.

**EROSION CONTROL & SOIL STABILIZATION PROGRAM**

- DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
- ALL DISTURBED SLOPES, EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
- THE TOP SOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH R.I. STANDARD SPECIFICATION M. 20.
- THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE MULCH FOR EACH VARIETY.
- THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING PERMANENT SEEDING MIXTURES:
  - MOWED AREA (ALL FLATS OR SLOPES LESS THAN 5% SLOPE)
 

MIXTURE	% BY WT.	SEEDING DATES
RED FESCUE	70	APRIL 1 - JUNE 15
KENTUCKY BLUEGRASS	15	AUG. 15 - OCT. 15
COLONIAL BENTGRASS	5	
PERENNIAL RYEGRASS	10	
TOTAL	200 LBS/AC	
  - UNMOWED AREA OR INFREQUENTLY MOWED (FLAT OR SLOPES GREATER THAN 3:1)
 

MIXTURE	% BY WT.	SEEDING DATES
RED FESCUE	70	APRIL 1 - JUNE 15
COLONIAL BENTGRASS	5	AUG. 15 - OCT. 15
PERENNIAL RYEGRASS	10	
BIRD'S FOOT TROTT	15	
TOTAL	100 LBS/AC	
  - CONSERVATION SEEDING AREAS
 

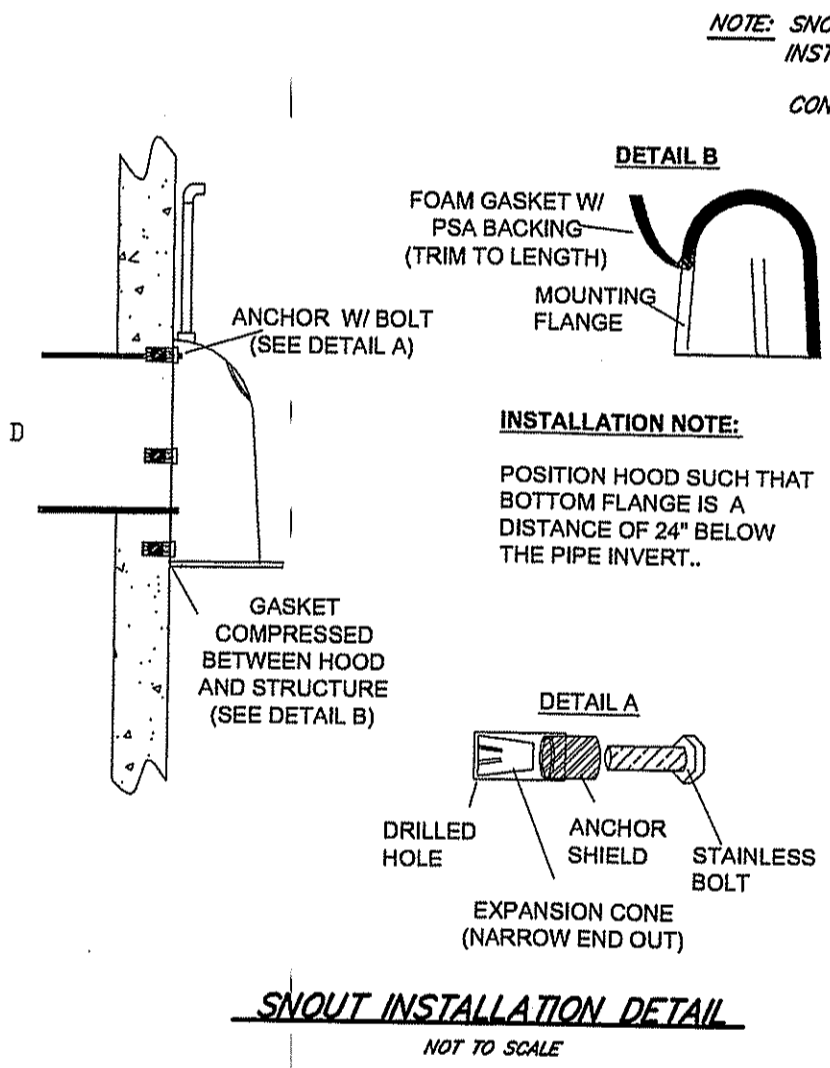
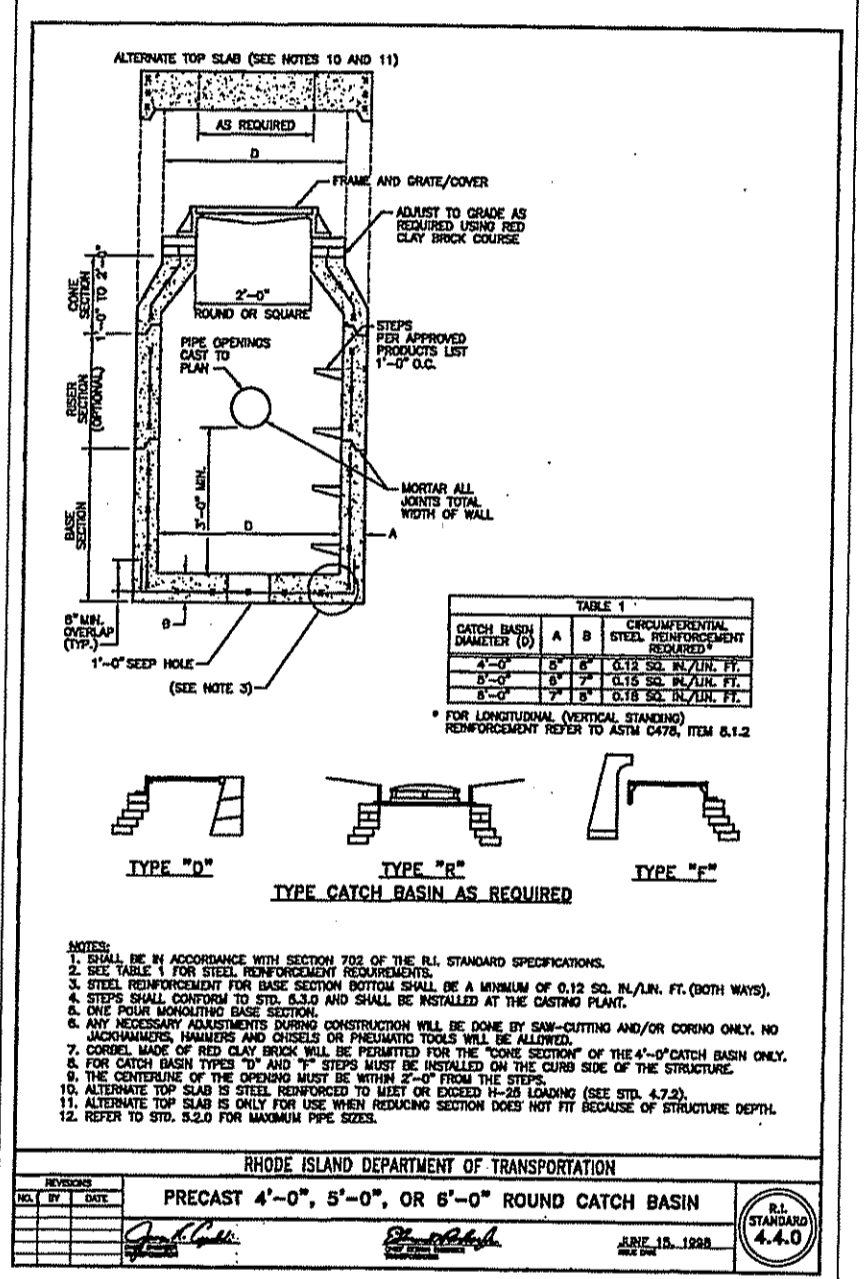
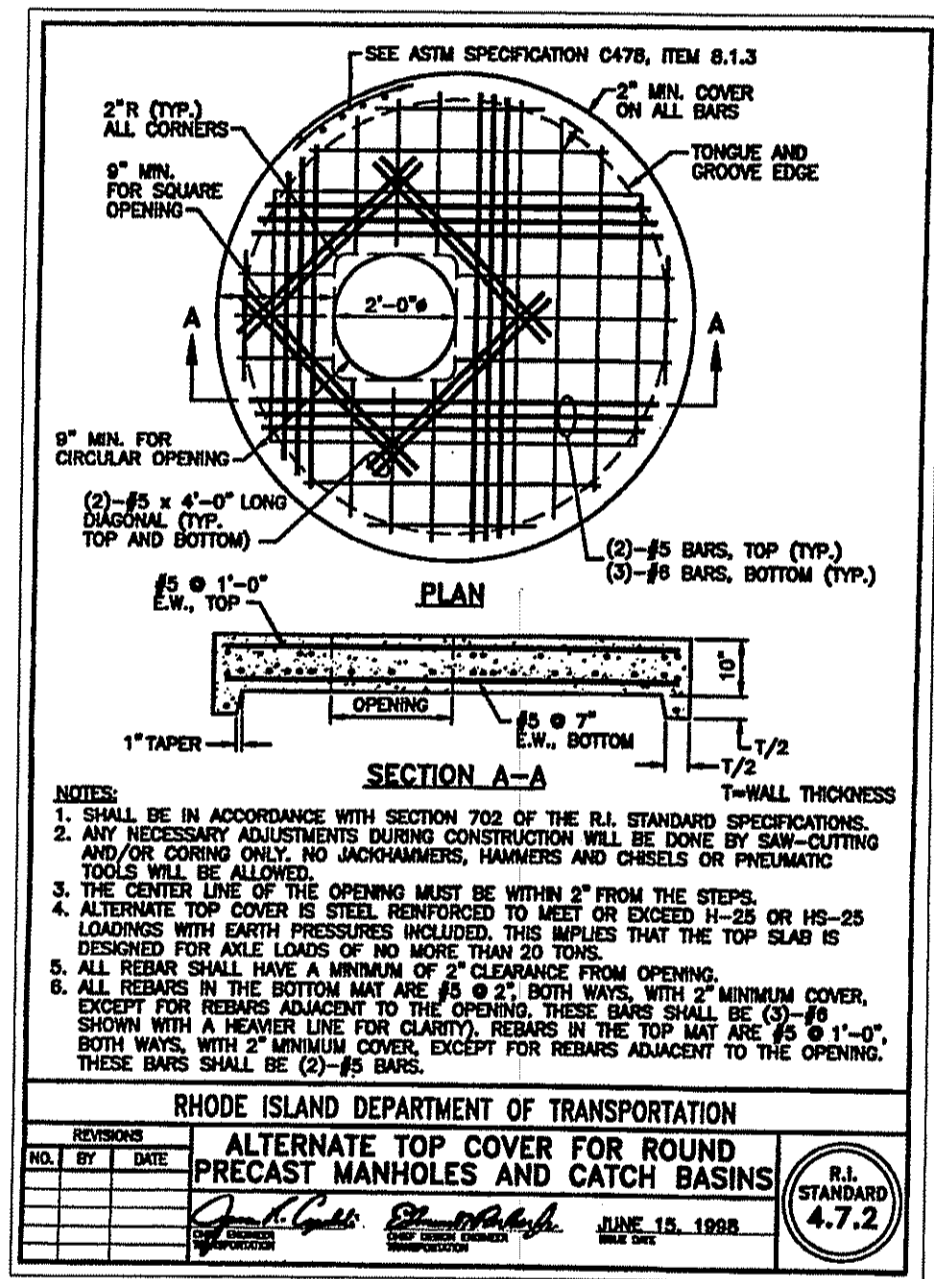
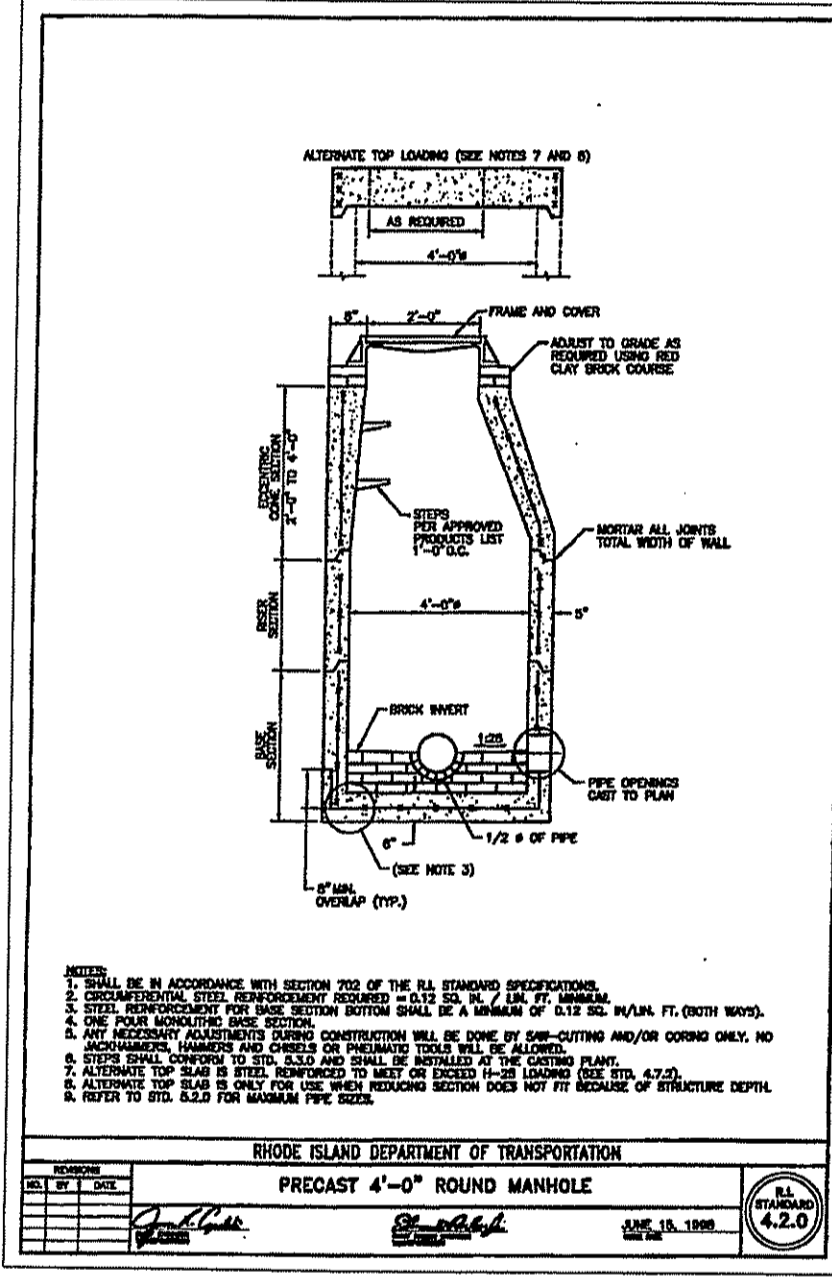
MIXTURE	% BY WT.	SEEDING DATES
TALL FESCUE	32	APRIL 1 - JUNE 15
RED FESCUE	24	AUG. 15 - OCT. 15
PERENNIAL RYEGRASS	18	
WILDFLOWER MIX	15	
RED CANARY GRASS	7	
REDDTOP	4	
TOTAL	200 LBS/AC	

**ORDER OF PROCEDURE**

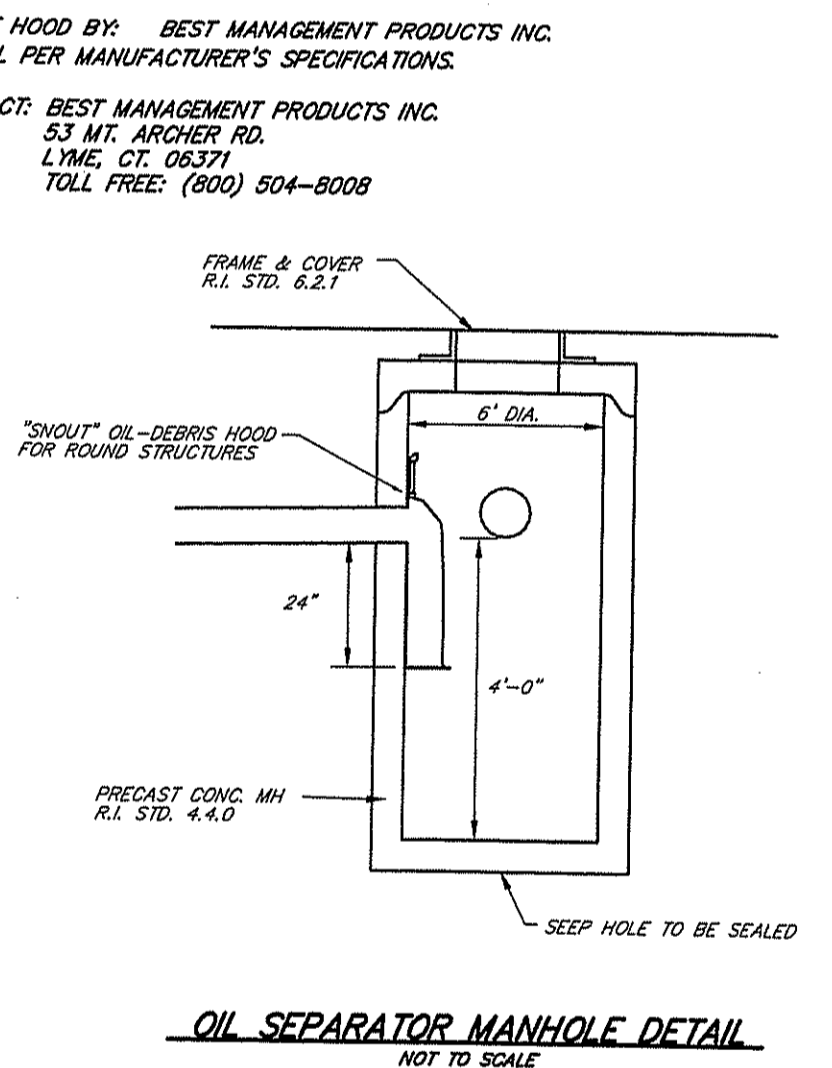
- PRIOR TO ANY CONSTRUCTION OR EXCAVATION, HAYBALES OR SILT FENCE SHALL BE INSTALLED AT THE PROPERTY LINE OR LIMIT OF DISTURBANCE. TEMPORARY HAYBALES OR SILT FENCE SHALL BE INSTALLED AT THE LIMIT OF WORK ACTIVITY IF CONSTRUCTION IS TO BE DONE IN PHASES.
- ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY MAINTAINED AS PER THE RESPECTIVE PROGRAMS FOR TEMPORARY CONTROL.
- IF WORK PROGRESS IS TO BE INTERRUPTED AT ANY TIME, REFERENCE EROSION AND SEDIMENTATION PROGRAMS FOR TEMPORARY CONTROL.
- TEMPORARY HAYBALES AND SANDBAGS ALONG AND AT THE ENDS OF ROADWAYS MAY ALSO BE REMOVED AFTER FINAL SOIL STABILIZATION HAS BEEN ACHIEVED AND APPROVED.
- HAYBALES LOCATED AT DRAINAGE INLETS OR OUTLETS MUST REMAIN UNTIL SUCH TIME THAT AN IDEAL STAND OF GRASS OR GROUND COVER HAS BEEN ESTABLISHED AND THE PROJECT RECEIVES A FAVORABLE APPROVAL FOR FINAL ACCEPTANCE FROM THE ENGINEER.

SPECIES	LBS./1,000 S.F.	LBS./AC.	SEEDING DATES
ANNUAL RYEGRASS	1.0 - 1.5	40 - 60	3/1 - 6/1
PERENNIAL RYEGRASS	1.0 - 1.5	40 - 60	3/1 - 6/1
SUDAN GRASS	0.7 - 1.0	30 - 40	5/15 - 8/15
MILLET	0.7 - 1.0	30 - 40	5/15 - 8/15
WINTER RYE	3.0	120	4/15 - 6/15

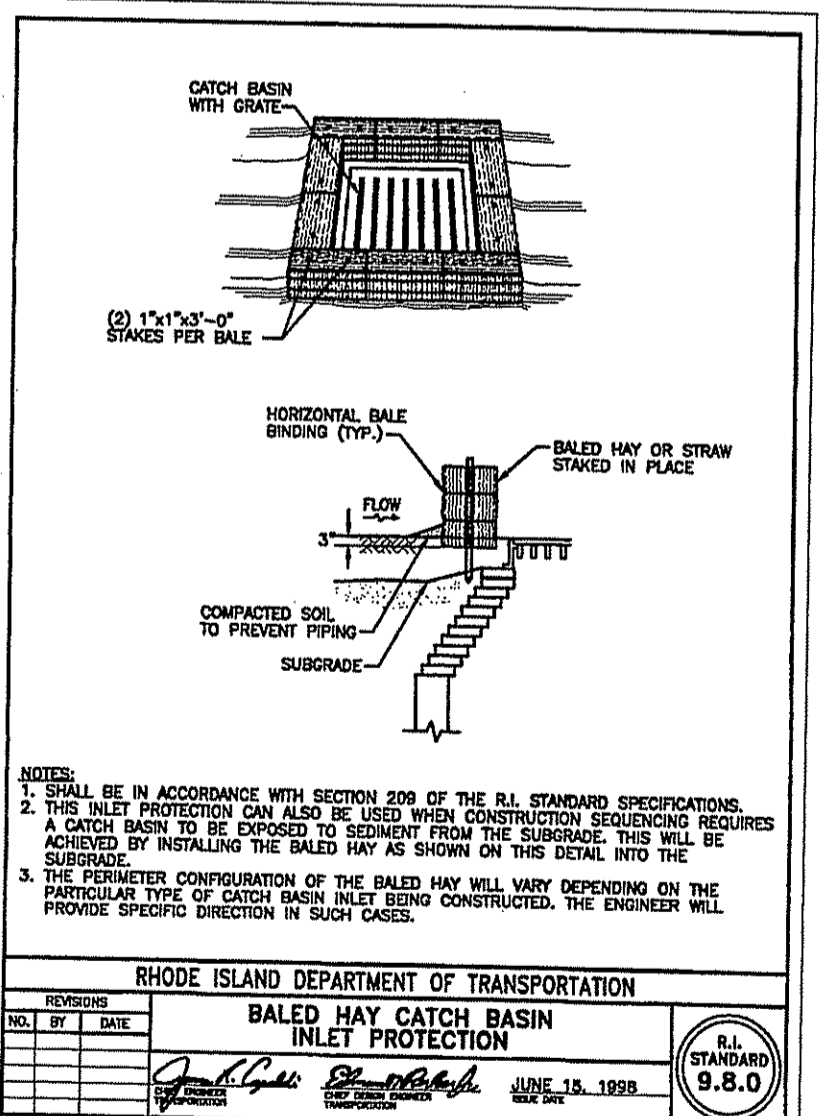
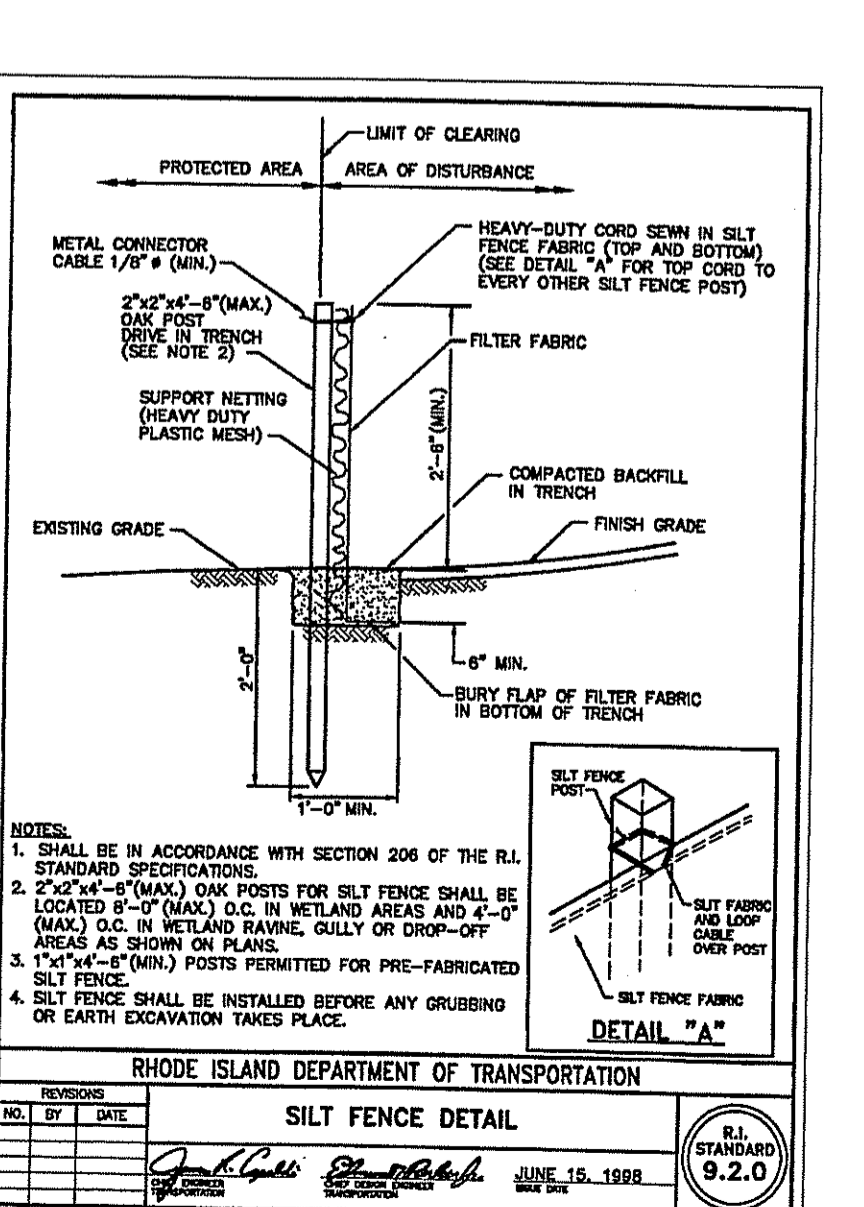
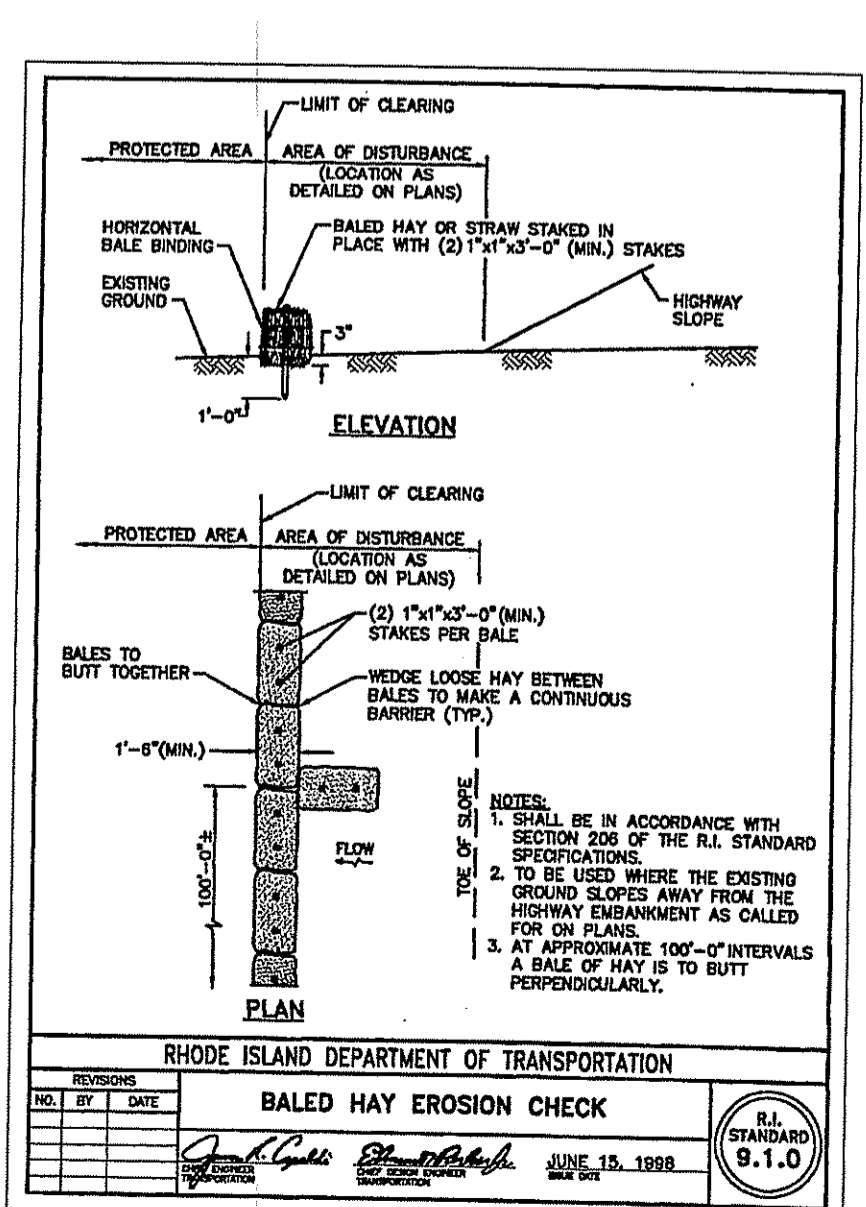
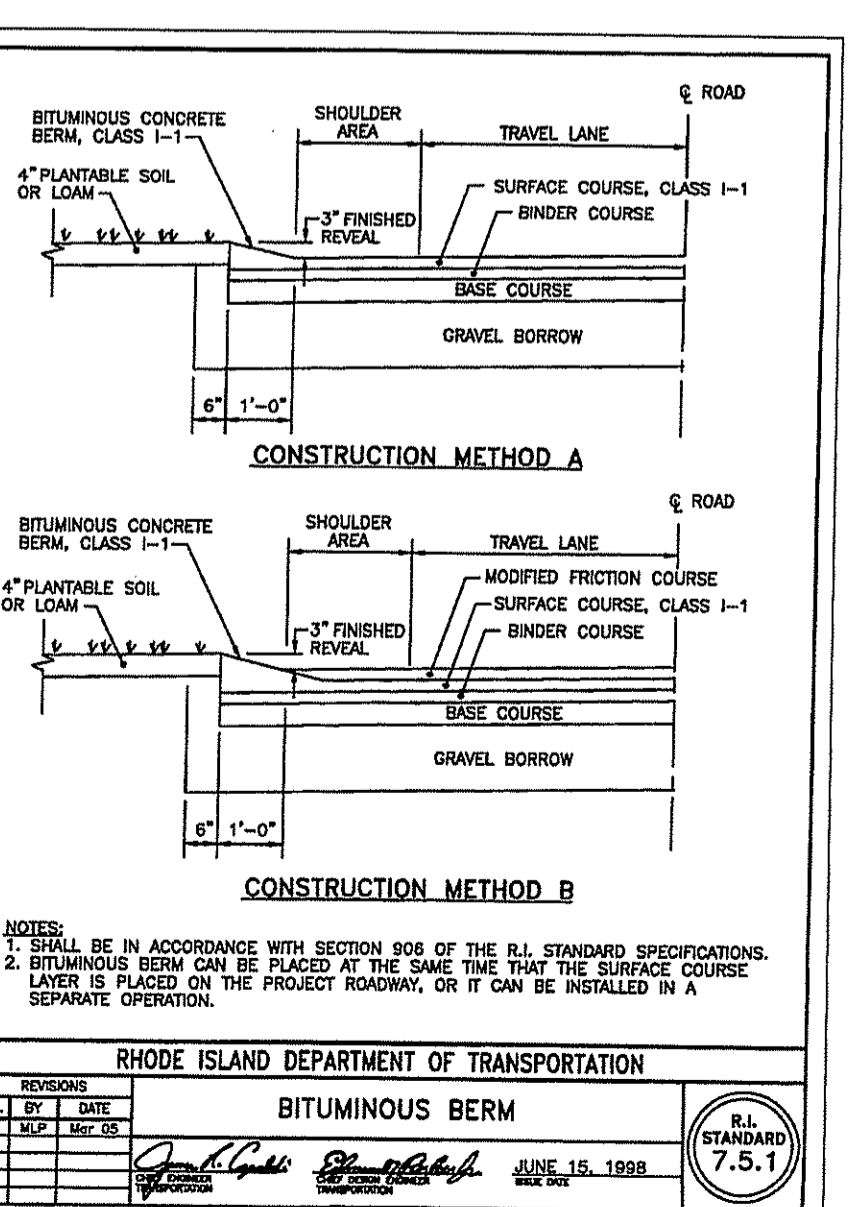
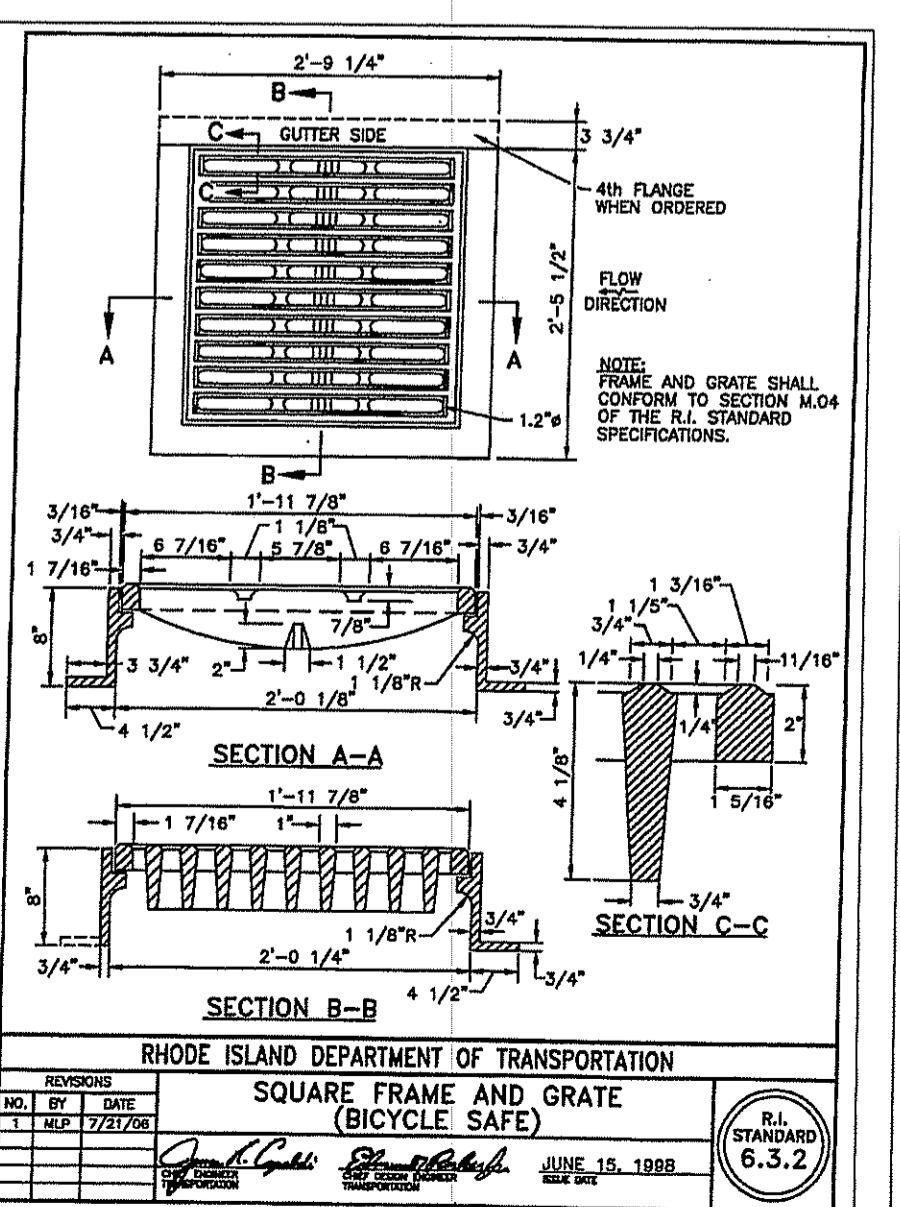
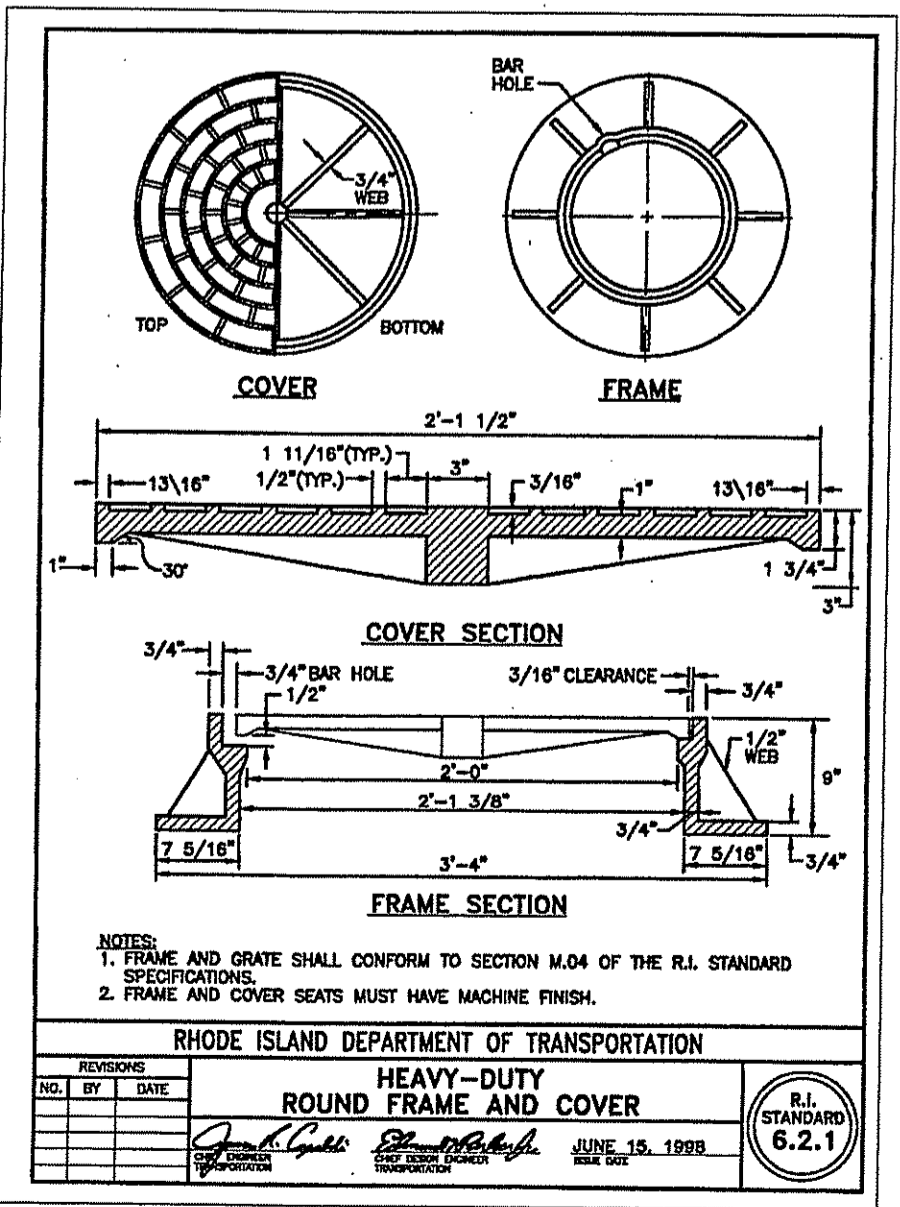
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
- ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE R.I.D.P.W. STD. SPECIFICATIONS IN SECTION 202.
- STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 15 DAYS OF FINAL GRADING.
- STOCKPILES OF TOPSOILS SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES SHALL ALSO BE SEEDED AND/OR STABILIZED.
- ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
- REFERENCE THE SEDIMENTATION CONTROL PROGRAM AND ORDER OF PROCEDURE FOR PROPER COORDINATION.



**SNOUT INSTALLATION DETAIL**  
NOT TO SCALE



**OIL SEPARATOR MANHOLE DETAIL**  
NOT TO SCALE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED DEC 21 2011 FILE # 11-0116  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

**SCOTT F. MOOREHEAD**  
REGISTERED PROFESSIONAL ENGINEER

DATE: \_\_\_\_\_ REVISION: \_\_\_\_\_

DWN. BY: LBC DWG. NO. SFM700M-ER

**SFM**  
S.F.M. ENGINEERING ASSOCIATES  
410 TIOGUE AVENUE  
COVENTRY, R.I. 02816  
(401)826-3736

**GREENRIDGE**  
SOUTH MAIN STREET  
ASSESSORS PLAT 210 LOT 23  
BURRILLVILLE, RHODE ISLAND

PREPARED FOR:  
NEIGHBORHOODS BLACKSTONE RIVER VALLEY  
719 FRONT ST., SUITE 103  
WOONSOCKET, RHODE ISLAND 02895

**EROSION CONTROL NOTES & DETAILS**

DATE: JUNE 13, 2011 SCALE: AS NOTED SHEET 11 OF 11