

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 APR 15 2008 FILE # 07-0193
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

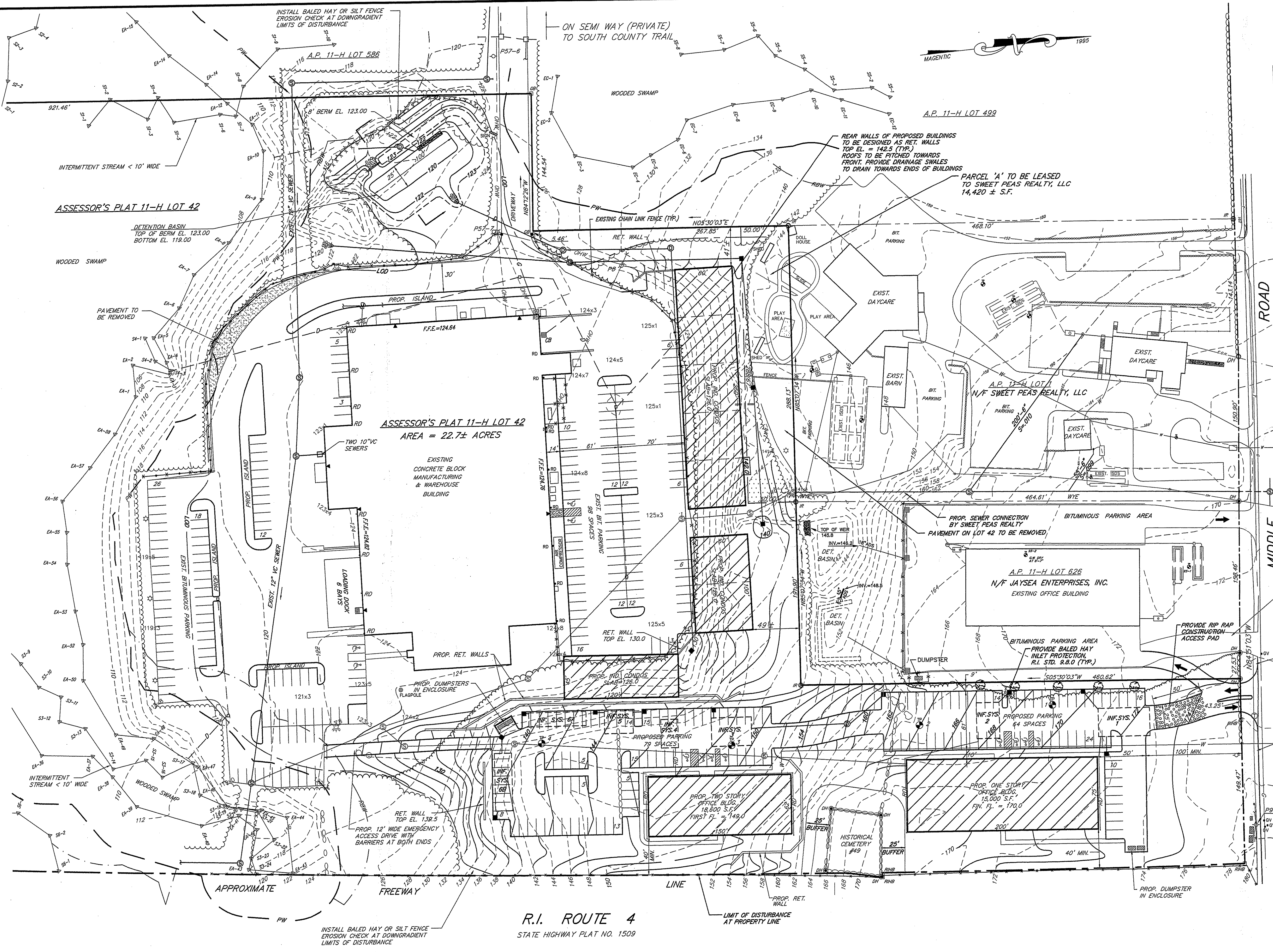
Ernest D. Wencel

GENERAL NOTES:

- FRESHWATER WETLANDS DELINEATED BY EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.
- PROPERTY LINE AND TOPOGRAPHIC INFORMATION BY SCITUATE SURVEYS, INC.
- SUBJECT SITE IS LOCATED WITHIN FLOOD HAZARD ZONE C (AREA OF MINIMAL FLOODING) AS PER F.I.R.M. PANEL NO. 445397-0002B.
- PROPOSED DEVELOPMENT TO BE SERVICED BY UNDERGROUND UTILITIES INCLUDING WATER, SEWER, TELEPHONE, ELECTRIC, CABLE TV AND GAS.
- EROSION CONTROL MEASURES SHALL BE THE FIRST ITEM OF CONSTRUCTION AND SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- ALL WORK AND LIMITS OF DISTURBANCE SHALL CONFORM TO ALL LOCAL AND STATE PERMITS AND SPECIFICATIONS.
- ALL WORK SHALL BE ACCURATELY LOCATED AND CONSTRUCTION STAKED PRIOR TO COMMENCEMENT OF ANY WORK.
- A VARIANCE FROM SEC. 8.4.2 OF THE ZONING ORDINANCE IS REQUIRED TO ALLOW LESS THAN THE REQUIRED 40' SIDE YARD SETBACK AND BUFFER BETWEEN THE PARKING LOT AND LOT 626 AND ROUTE 4.
- ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY DIS-SAFE AND APPROPRIATE UTILITY COMPANIES PRIOR TO ANY EXCAVATION FOR ACCURATE UTILITY LOCATIONS.

LEGEND

- - - 180 - - - EXIST. CONTOUR
- - - 190 - - - PROP. CONTOUR
- x 205.0 - - - EXIST. SPOT ELEVATION
- x 205.0 - - - PROP. SPOT ELEVATION
- EXIST. STONE WALL
- EXIST. TREE LINE
- PROPOSED TREE LINE
- EXIST. UTILITY POLE
- EXIST. SEWER MANHOLE
- CB - - - PROP. CATCH BASIN
- D - - - EXIST. DRAINAGE LINE
- O - - - PROP. DRAINAGE LINE
- W - - - WATER LINE
- G - - - GAS LINE
- S - - - SEWER LINE
- PW - - - 50' PERIMETER WETLAND
- RBW - - - 100' RIVERBANK WETLAND
- x x x x - - - BALED HAY EROSION CHECK
- LOD - - - LIMIT OF DISTURBANCE



DEVELOPMENT AREAS

BUILDINGS	3.03 Ac.	13.3%
EXIST. PAVEMENT	3.63 Ac.	16.0%
PROP. PAVEMENT	1.32 Ac.	5.8%
WOODS/LANDSCAPED	14.72 Ac.	64.9%
TOTAL	22.70± Ac.	100.0%

ZONING DATA

ZONING : INDUSTRIAL M/LIO
 MIN. LOT AREA : 2 Ac.
 MIN. FRONTAGE : 150'
 MIN. YARDS : FRONT 100'
 SIDE 40'
 REAR 50'
 MAX. BUILDING HEIGHT: 35'
 MAX. LOT COVERAGE : 30% (STRUCTURE)
 66% (STRUCTURE & PAVMT.)

BUILDING DATA

EXIST. INDUSTRIAL BUILDING 72,370± S.F.
 PROP. OFFICE BUILDINGS 33,600 S.F.
 PROP. INDUSTRIAL CONDOS 26,400 S.F.

PARKING DATA

PROPOSED OFFICE BUILDINGS
 NET FLOOR AREA = 28,400 S.F. ±
 PARKING REQUIRED: 142 SPACES
 PARKING PROVIDED: 143 SPACES
 PARKING SPACES: 9' X 18'
 HANDICAP SPACES: 14' X 18'
 AISLE WIDTH: 25' MIN.

EXIST. INDUSTRIAL BUILDING
 PARKING REQUIRED: 121 SPACES

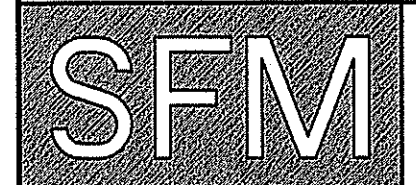
PROPOSED INDUSTRIAL CONDOS
 OFFICE SPACE (36,000 S.F.): 18 SPACES
 WAREHOUSE SPACE (22,800 S.F.): 45 SPACES
 TOTAL IND. PARKING REQ'D.: 184 SPACES
 PARKING PROVIDED : 200 SPACES

SCOTT F. MOOREHEAD
 No. 4298
 REGISTERED PROFESSIONAL ENGINEER

DATE	REVISION
5-29-08	GRADING, UTILITIES
7-7-08	SEWER, PARCEL 'A'
9-29-08	SHARED DRIVEWAY ACCESS
3-9-09	SEWER
4-14-09	PARKING, NOTES
12-15-09	FWW COMMENTS

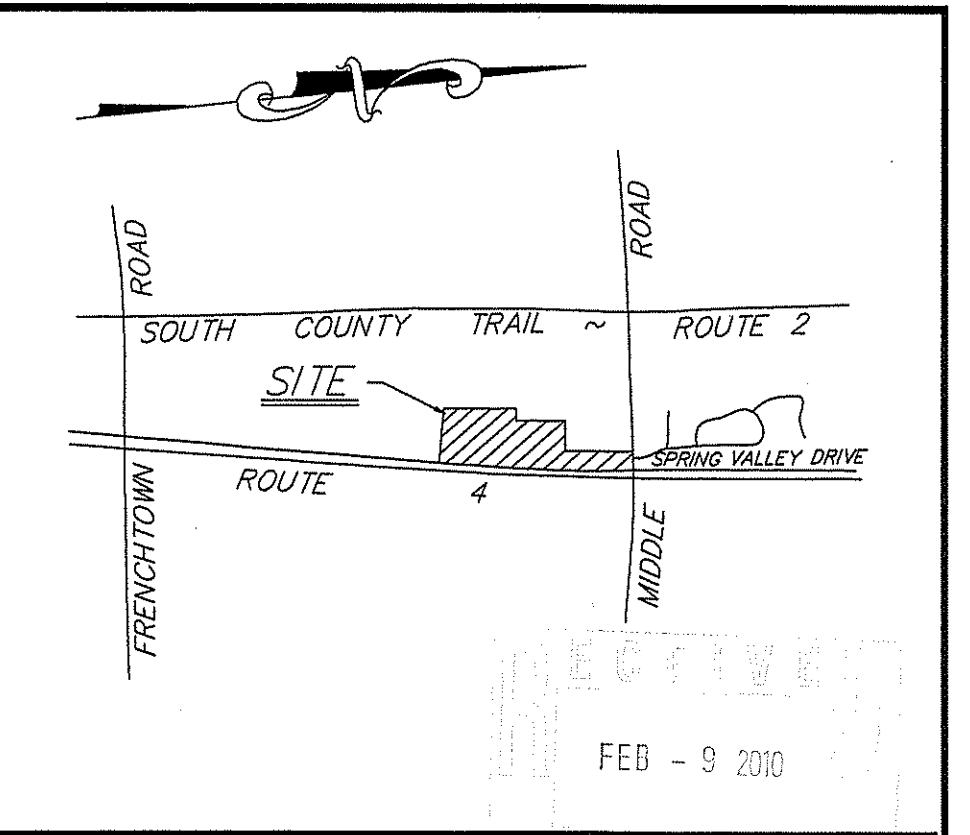
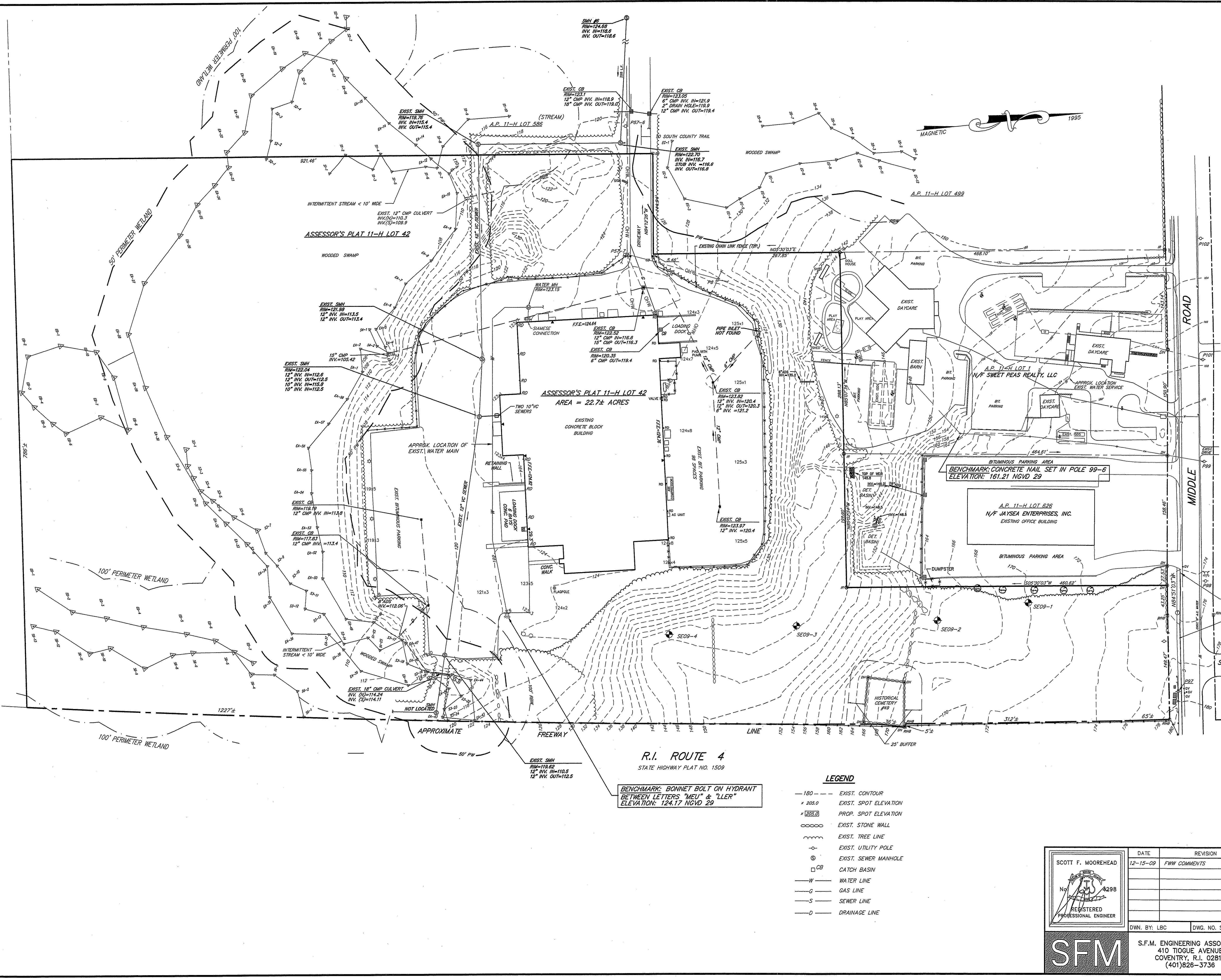
DWN. BY: LBC DWG. NO. SFM697SP7

PROPOSED OFFICE DEVELOPMENT
 ASSESSOR'S PLAT 11H LOT 42
 MIDDLE ROAD
 EAST GREENWICH, RHODE ISLAND
 PREPARED FOR:
 ONE AMERICAN WAY, LLC
 2240 SOUTH COUNTY TRAIL
 EAST GREENWICH, R.I. 02818



S.F.M. ENGINEERING ASSOCIATES
 410 TIOGUE AVENUE
 COVENTRY, R.I. 02816
 (401)828-3736

SITE PLAN
 DATE: MAR. 31, 2008 SCALE: 1"=50' SHEET 1 OF 5



LOCATION PLAN
SCALE: 1"=2000'

SCITUATE SURVEYS, INC.
410 TIOGUE AVENUE
COVENTRY, RHODE ISLAND 02816
401-821-8101
LAND SURVEYING / MAPPING / SITE PLANNING

GRAPHIC SCALE IN FEET

SURVEY NOTES

- THE DATA ACCUMULATION SURVEY DEPICTED HEREON IS COMPILED FROM A COMBINATION OF SOURCES. TOPOGRAPHIC LOCATION OF PHYSICAL FEATURES AND UTILITY INFORMATION FOR THE PORTION OF LOT 42 BETWEEN MIDDLE ROAD AND THE LINE OF WETLAND FLAG Labeled 'S4' IS A PRODUCT OF AN ON-SITE SURVEY CONDUCTED BY SCITUATE SURVEYS BETWEEN OCTOBER 2007 AND APRIL 2008. SIMILAR DATA FOR LOT 1 WAS OBTAINED BY SCITUATE SURVEYS FROM GROUND SURVEYS IN 2000.
- WETLAND FLAG LOCATION WAS PROVIDED TO SPM ENGINEERING BY OTHERS.
- VERTICAL DATUM IS NGVD83. THE REFERENCE BENCHMARK (U.S.G.S. DISK 723, ELEVATION = 176.81') WAS RECOVERED IN 1984. VERTICAL CONTROL SURVEYS (1985-2009) WERE CONDUCTED TO A CLASS 3 ACCURACY STANDARD.
- SCITUATE SURVEYS DID NOT CONDUCT A BOUNDARY SURVEY OF LOT 42. BOUNDARY SURVEYS OF LOT 1 AND LOT 626 WERE CONDUCTED IN 1984 AND WERE USED AS HORIZONTAL CONTROL FOR THE DATA ACCUMULATION. THE PERIMETER OF THE SUBJECT PARCEL HAS BEEN COMPILED BY SPM ENGINEERING, AND NO CERTIFICATION BY SCITUATE SURVEYS IS EXPRESSED OR IMPLIED.
- EVIDENCE OF PUBLIC AND PRIVATE UTILITIES IS BASED UPON SURVEY LOCATION OF SURFACE FEATURES. SUBSURFACE UTILITIES ARE BASED UPON RECORDS 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 'DIP-SHARE' FOR A MORE RELIABLE LAYOUT OF EXISTING UTILITIES.
- THIS PLAN IS DESIGNED TO BE VIEWED AT A SCALE OF 1" = 60' ON A SHEET THAT MEASURES 34" x 36" WITH ORIGINAL SIGNATURE AND 'NET' STAMP BELOW. ANY OTHER FORM OF THIS MAP IS NOT AN AUTHENTIC VERSION.

PROJ. NO.: S3154A.03 DRWG. NO.: S35587
DATE: _____ REVISION: _____

BY: JOHN MENSINGER, PROFESSIONAL LAND SURVEYOR NO. 1808
SCITUATE SURVEYS, INC., CERTIFICATE OF AUTHORIZATION NO. LS-A30

JULY 2, 2009

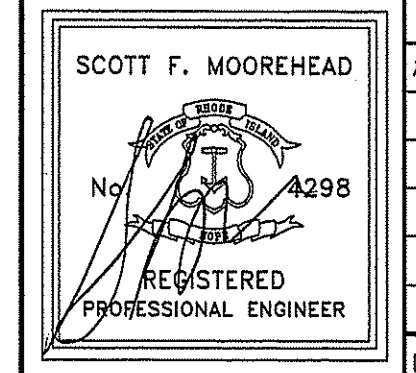
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Carsten D. Jensen

BENCHMARK: BONNET BOLT ON HYDRANT BETWEEN LETTERS 'MEU' & 'LLER' ELEVATION: 124.17 NGVD 29

- LEGEND**
- 180 - - - EXIST. CONTOUR
 - x 205.0 EXIST. SPOT ELEVATION
 - x 205.0 PROP. SPOT ELEVATION
 - o o o o EXIST. STONE WALL
 - ~ ~ ~ EXIST. TREE LINE
 - o- EXIST. UTILITY POLE
 - o EXIST. SEWER MANHOLE
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 - S- SEWER LINE
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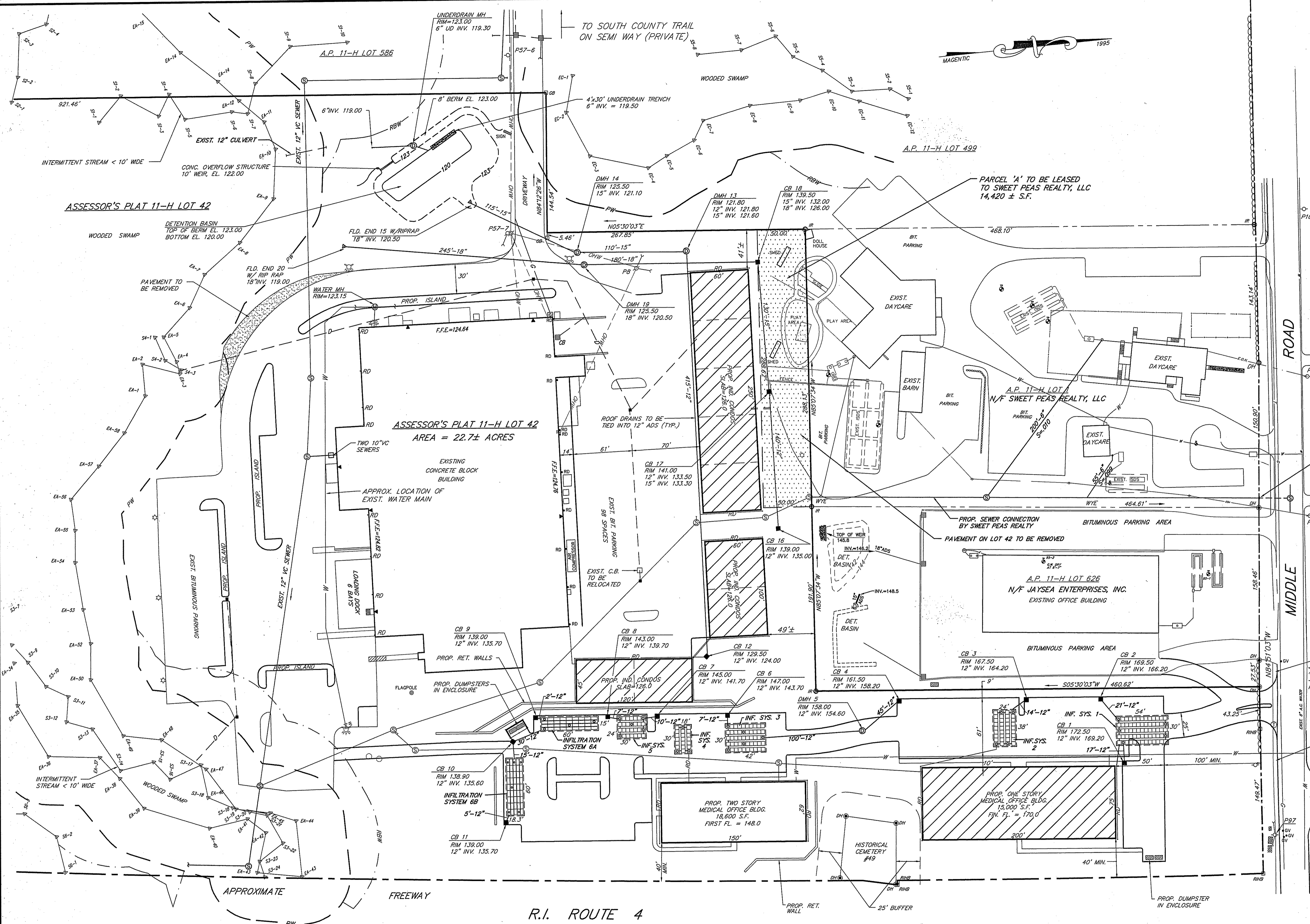


DATE	REVISION
12-15-09	FWW COMMENTS



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

PROPOSED OFFICE DEVELOPMENT	
ASSESSOR'S PLAT 11H LOT 42 MIDDLE ROAD EAST GREENWICH, RHODE ISLAND	
PREPARED FOR: ONE AMERICAN WAY, LLC 2240 SOUTH COUNTY TRAIL EAST GREENWICH, R.I. 02818	
EXISTING CONDITION PLAN	
DATE: JUNE 10, 2008	SCALE: 1"= 60'
SHEET 2 OF 5	



- UTILITY NOTES:**
- LOCATIONS AND SIZES OF EXISTING UTILITIES IS PLOTTED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY ALL INFORMATION WITH THE APPROPRIATE UTILITY AUTHORITY AND DIG SAFE PRIOR TO ANY CONSTRUCTION OR EXCAVATION.
 - EXPLORATORY TEST PITS SHALL BE EXCAVATED TO CONFIRM LOCATION AND DEPTH AT ANY CRITICAL AREAS, AS REQUIRED.
 - CONTRACTOR SHALL COORDINATE LOCATION & SIZE OF ALL BUILDING UTILITY CONNECTIONS WITH THE ARCHITECTURAL PLANS.
 - STORM DRAINAGE PIPE SHALL BE HDPE ADS N-12 OR EQUAL.
 - SEWER SERVICE PIPE & FITTINGS SHALL BE 6" SDR 35 PVC MIN. ALL SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE EAST GREENWICH SEWER AUTHORITY.
 - WATER MAINS SHALL BE 6" CLASS 52 DUCTILE IRON. RELATED WORK SHALL BE IN ACCORDANCE WITH THE POLICIES AND PRACTICES OF THE KENT COUNTY WATER AUTHORITY.
 - WATER LINES SHALL BE INSTALLED A MINIMUM OF 18" ABOVE SEWER LINES AND A HORIZONTAL SEPARATION OF 10' SHALL BE MAINTAINED BETWEEN WATER LINES AND ALL OTHER UTILITIES.
 - GAS, ELECTRIC AND TELEPHONE SERVICES SHALL BE AS PER APPROPRIATE UTILITY AUTHORITY.
 - UTILITY SERVICE INSTALLATIONS SHALL BE APPROVED AND INSPECTED BY THE APPROPRIATE UTILITY COMPANY.
 - SEE ELECTRICAL PLANS FOR SITE LIGHTING AND WIRING.
 - TEST PITS SHALL BE EXCAVATED IN THE AREA OF THE PROPOSED SEWER MANHOLES TO DETERMINE THE LOCATION AND ELEVATION OF EXISTING SEWERS. THE PROPOSED SEWER LOCATION AND MANHOLES SHALL BE ADJUSTED AS REQUIRED.

- DRAINAGE NOTES:**
- CATCH BASINS SHALL BE 6' I.D. PRECAST CONC. WITH 4' SUMP. R.I. STD. 4.4.0 TYPE 'B' 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 1 1/2" BELOW DESIGN GRADE UNTIL FINAL PAVEMENT COURSE IS TO BE INSTALLED. AT FINAL PAVING, RAISE FRAME & GRATE TO DESIGN GRADE.
 - ALL CATCH BASINS SHALL BE OIL SEPARATOR STRUCTURES. SEE DETAIL ON SHEET 4.
 - 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).
 - ROOF DRAINS SHALL BE 8" PVC OR ADS AT S=0.01 (MIN.).
 - CATCH BASINS SHALL BE CLEANED A MINIMUM OF TWICE PER YEAR (SPRING & FALL). REMOVED SILTS AND OIL SHALL BE DISPOSED OF 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 ITEMS.
 - END UNITS OF GALLEY INFILTRATION SYSTEMS SHALL BE CONNECTED WITH 12" ADS PIPE.

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Signature

GALLEY SYSTEM DATA

SYSTEM #	SOIL EVAL.	ELEV. SHWT	ELEV. IMPERVIOUS LAYER	NO. OF GALLEYS	BOT. STONE EL.	BOT. GALLEY EL.	12" INV.	TOP GALLEY EL.	MIN. SURFACE EL.	NO. OF ROWS	UNITS PER ROW
1	1	162.00	≤ 159.0	65	165.00	165.50	166.00	169.50	170.50	5	13
2	2	157.00	≤ 154.0	36	161.00	161.50	162.00	165.50	166.50	4	9
3	3	138.00	≤ 135.0	50	141.00	141.50	142.00	145.50	146.50	5	10
4	3/4	136.00	≤ 133.0	21	139.50	140.00	142.00	144.00	145.00	3	7
5	4	135.00	≤ 132.0	28	138.00	138.50	139.00	142.50	143.50	4	7

CULTEC SYSTEM DATA

SYSTEM #	SOIL EVAL.	ELEV. SHWT	ELEV. IMPERVIOUS LAYER	NO. OF CULTECS	BOT. STONE EL.	BOT. CULTEC EL.	12" INV.	TOP CULTEC EL.	MIN. SURFACE EL.	NO. OF ROWS	UNITS PER ROW
6	4	132.00	≤ 129.0	81	135.00	135.50	135.50	137.20	139.00	9	9

SCOTT F. MOOREHEAD
REGISTERED PROFESSIONAL ENGINEER
SFM

DATE	REVISION
12-15-09	FWM COMMENTS

DWN. BY: LBC DWG. NO. SFM697UP7

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

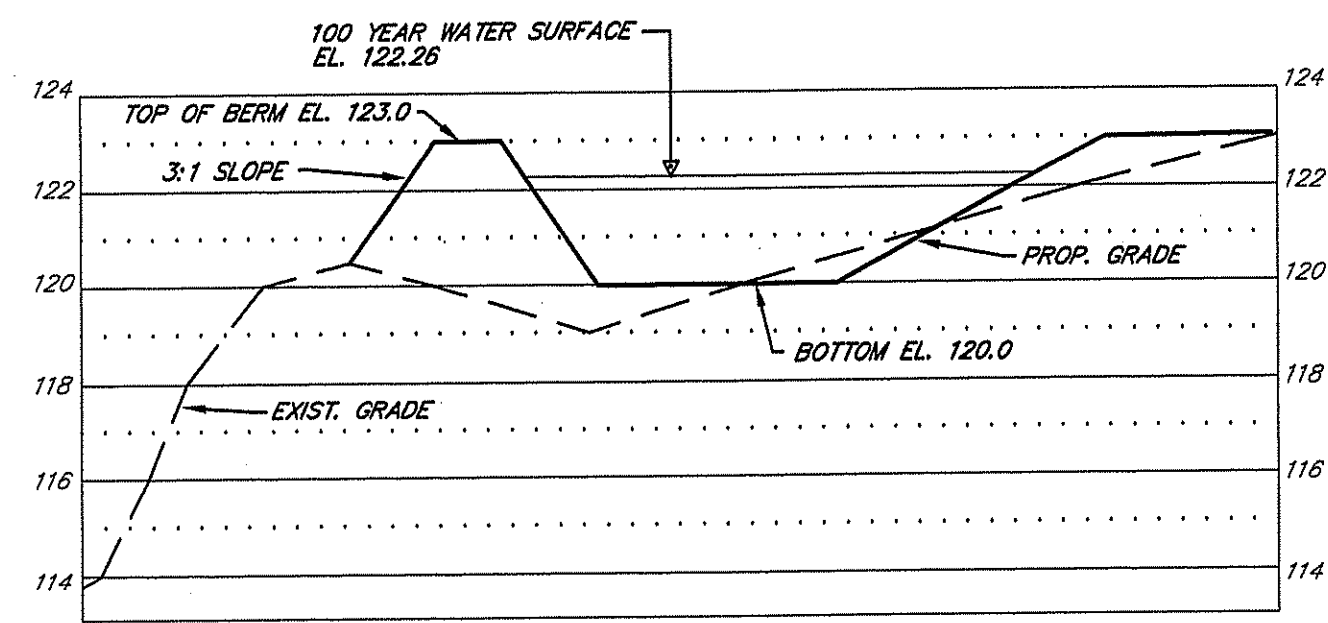
PROPOSED OFFICE DEVELOPMENT

ASSESSOR'S PLAT 11H LOT 42
MIDDLE ROAD
EAST GREENWICH, RHODE ISLAND

PREPARED FOR:
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EAST GREENWICH, R.I. 02818

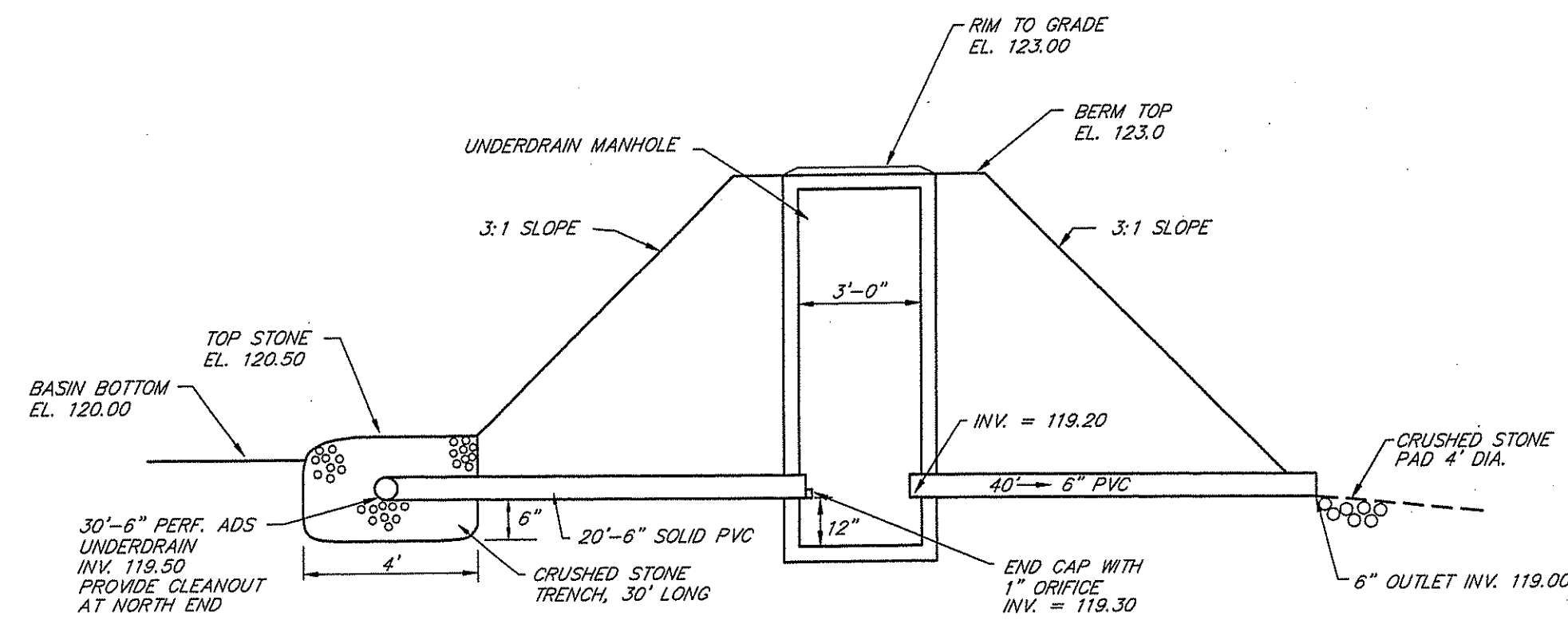
UTILITY PLAN

DATE: MAR. 31, 2009 SCALE: 1"=50' SHEET 3 OF 5



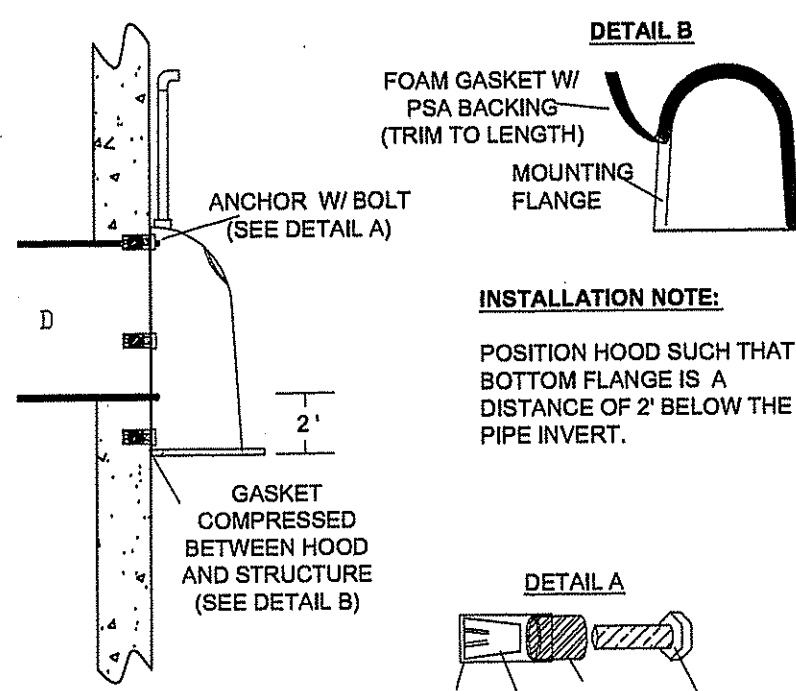
CROSS SECTION - DETENTION BASIN

SCALE: HOR. 1" = 20'
VERT. 1" = 4'



UNDERDRAIN DETAIL - DETENTION BASIN

NOT TO SCALE



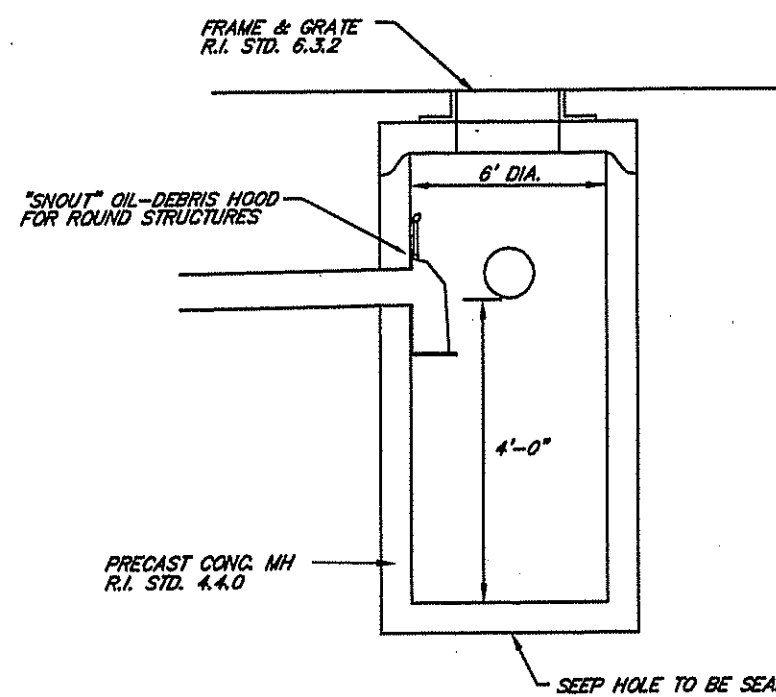
SNOUT INSTALLATION DETAIL

NOT TO SCALE

NOTE: 1. SNOUT HOOD BY: BEST MANAGEMENT PRODUCTS INC. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

2. MINIMUM SIZE HOOD IS SIZE 24 FOR A 12" DIA. OUTLET PIPE.

CONTACT: BEST MANAGEMENT PRODUCTS INC.
55 MT. ARCHER RD.
LYME, CT. 06371
TOLL FREE: (800) 504-8008

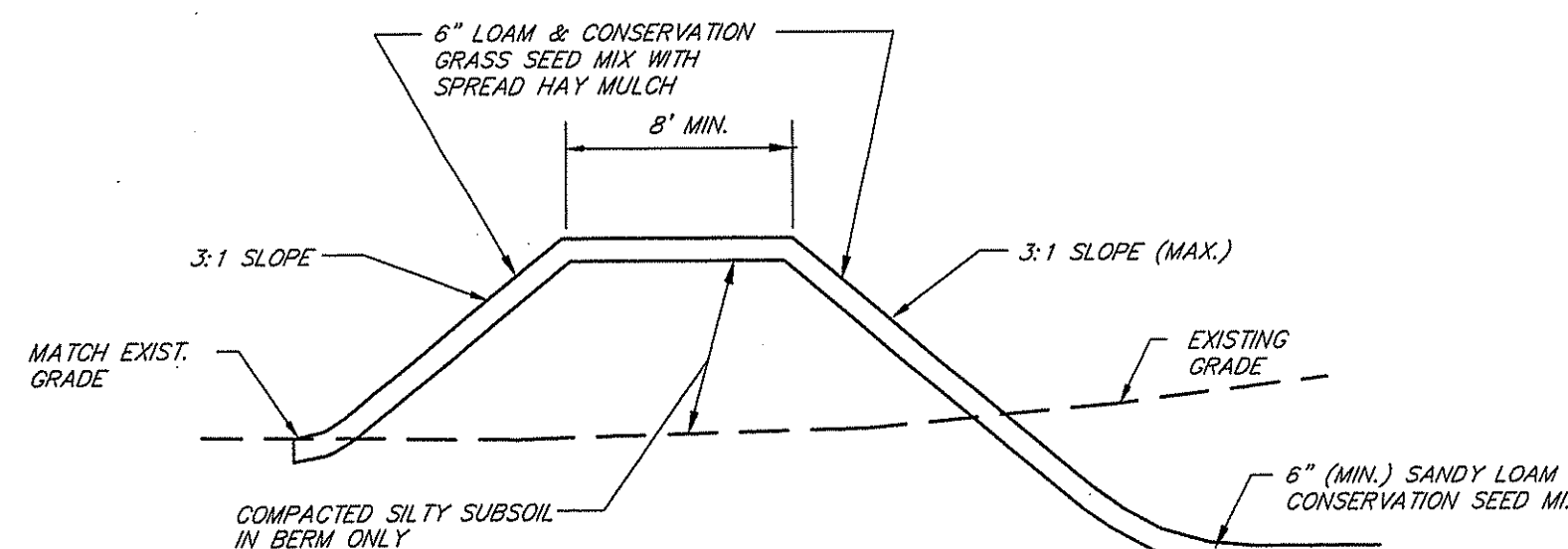


OIL SEPARATOR CATCH BASIN DETAIL

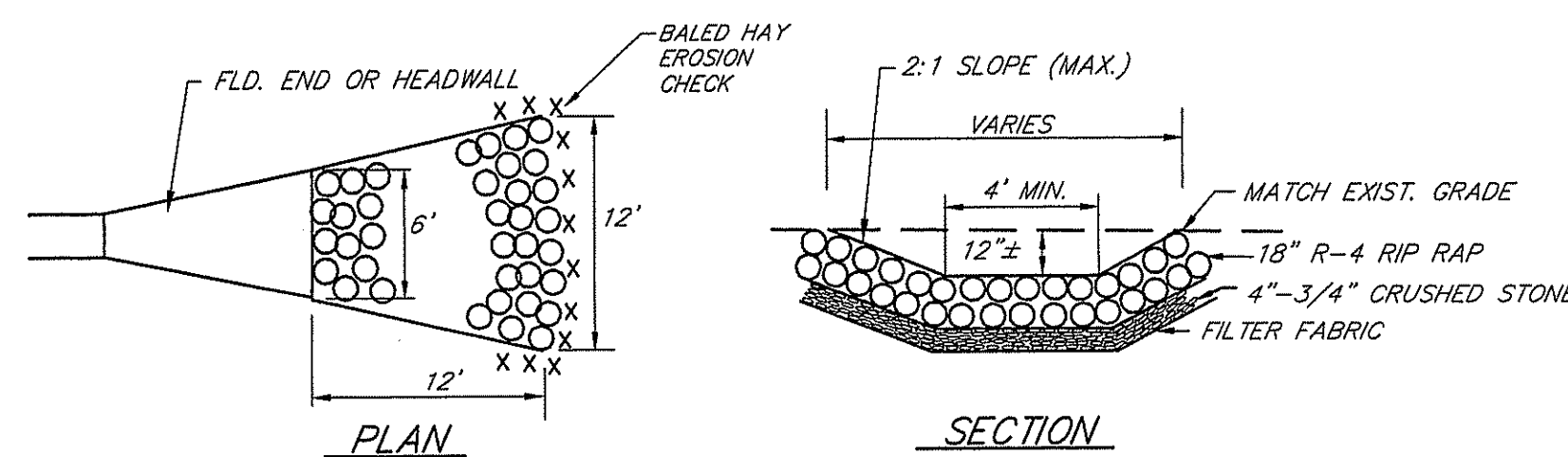
NOT TO SCALE

DETENTION BASIN - DIMENSION TABLE

ELEV. (FT.)	AREA (S.F.)	AVG. LENGTH	AVG. WIDTH	OUTLET DATA
120	2452	100'	25'	
122	5748	117'	50'	
123	8035	130'	62'	10' OVERFLOW WEIR EL. 122.00



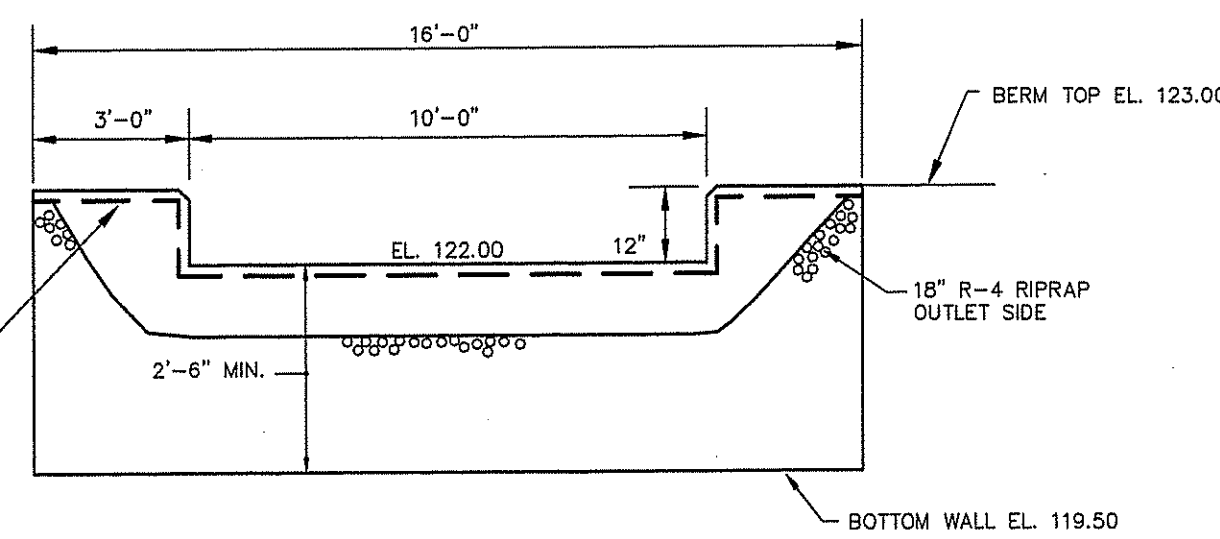
DETENTION BASIN BERM DETAIL



NOTE: RIP RAP SWALES SHALL BE 6' WIDE AT FLRD. END AND WIDEN TO 12', LENGTH = 12'

RIP RAP @ FLARED END

NOT TO SCALE

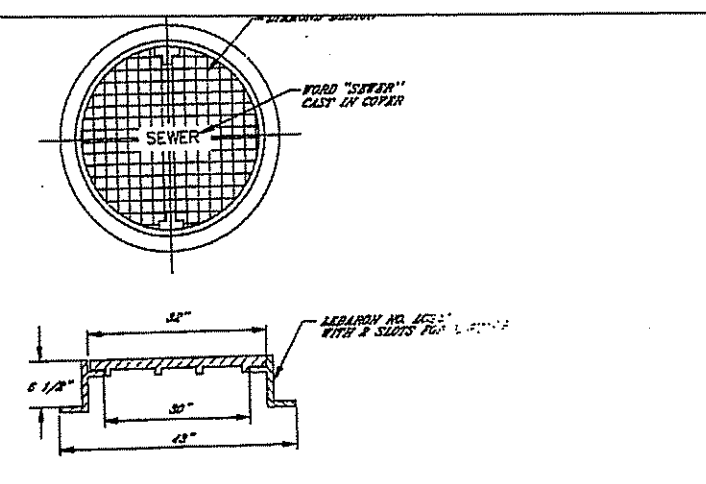


DETENTION BASIN CONCRETE OVERFLOW WEIR DETAIL

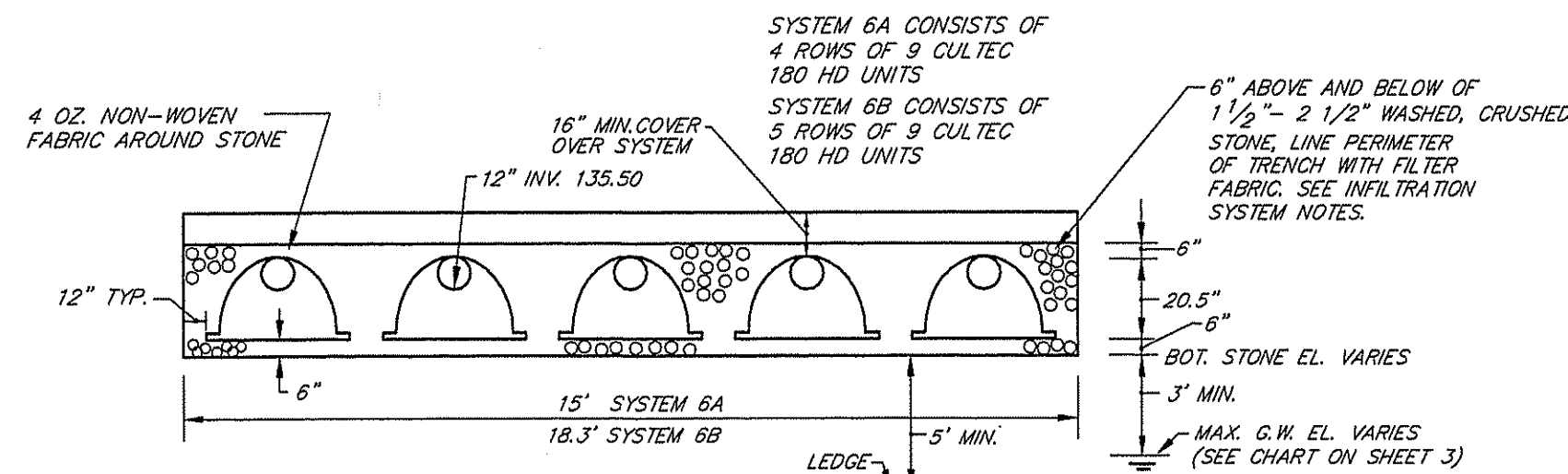
NOT TO SCALE

SEWER NOTES

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- ALL SEWER CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE EAST GREENWICH SEWER AUTHORITY.
- PROPOSED SEWERS ON LOT 42 SHALL BE INSTALLED AS SHOWN UNLESS MODIFICATIONS ARE APPROVED BY THE OWNER OF LOT 42. ACCURATE AS-BUILT RECORDS SHALL BE KEPT AND A COPY FURNISHED TO THE OWNER OF LOT 42.
- SEWER LOCATION ON LOT 1 MAY BE ADJUSTED AS REQUIRED AND APPROVED BY THE OWNER.

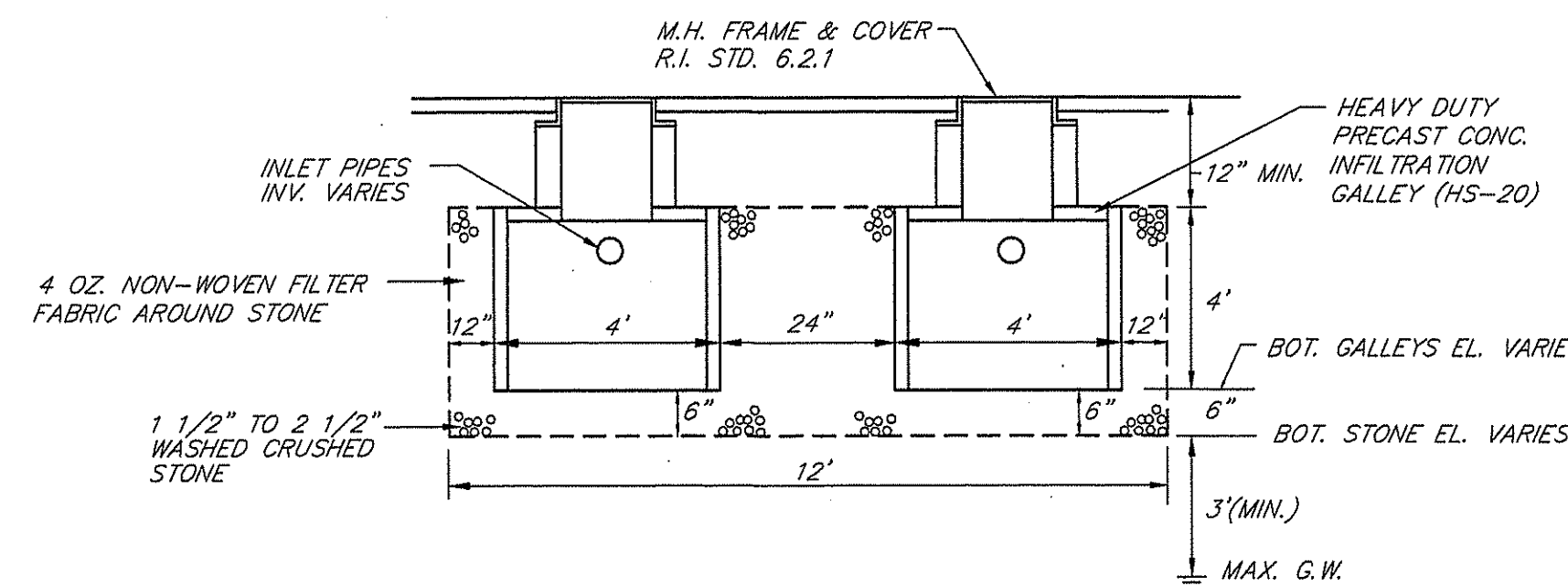


SANITARY MANHOLE FRAME & COVER DETAIL



CULTEC SECTION

NOT TO SCALE



SECTION - GALLEY DETAIL

NOT TO SCALE

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 PEASTONE AND SAND ENVELOPE REPLACED AS REQUIRED.

DETENTION BASIN MAINTENANCE PLAN

THE DETENTION BASIN SHALL BE MAINTAINED ACCORDING TO THE FOLLOWING SCHEDULE:

- THE GRASS ON THE BASIN (DIKE & SLOPES) SHALL BE MOVED THREE (3) TIMES BETWEEN THE MONTHS OF MAY AND OCTOBER. MOVED HEIGHT OF VEGETATION SHALL NOT BE LESS THAN TWO INCHES.
- THE INLET & OUTLET STRUCTURES TO THE BASIN SHALL BE KEPT CLEAN OF SILT AND DEBRIS. THE PIPES SHALL BE CLEANED AT THE THREE (3) MORNINGS AND ONCE DURING THE WINTER MONTHS.
- ACCUMULATED SILT AND DEBRIS SHALL BE REMOVED FROM THE BASIN ONCE EVERY TEN (10) YEARS 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.
- BASINS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL APPROVAL OF CONSTRUCTION.
- AFTER FINAL APPROVAL THE OWNER ASSOC. SHALL BE RESPONSIBLE FOR ALL MAINTENANCE.

INFILTRATION SYSTEM INSTALLATION NOTES

- THE GALLEY & CULTEC UNITS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- THE INFILTRATION SYSTEM SHALL BE PROTECTED FROM SILTATION AT ALL TIMES. OPEN INLET PIPES SHALL BE FITTED WITH TEMPORARY WATER TIGHT CAPS.
- THE SYSTEM SHALL BE COVERED WITH GRAVEL IMMEDIATELY AFTER INSTALLATION.
- THE SYSTEM SHALL BE PROTECTED FROM CONSTRUCTION EQUIPMENT UNTIL PAVEMENT IS INSTALLED.
- REFER TO INFILTRATION SYSTEM DATA CHART ON SHEET 3 FOR DETAILS ON SYSTEM SIZING.
- FILTER FABRIC LINER SHALL BE TERRATEX NO. 4 OR AMOCO 4545 OR EQUAL.
- RISERS & COVERS SHALL BE INSTALLED AS SHOWN ON PLANS.

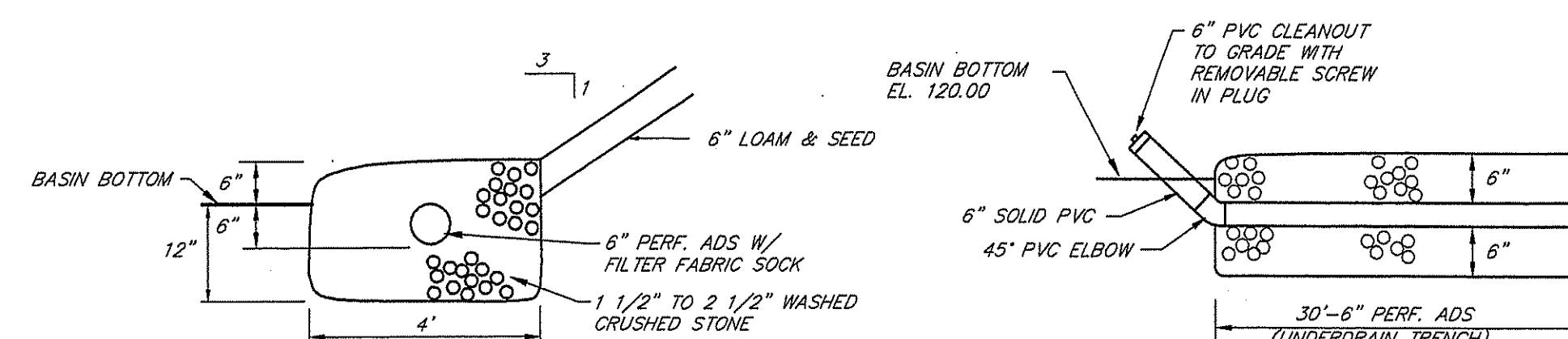
INFILTRATOR MAINTENANCE NOTES

- DURING CONSTRUCTION AND THE FIRST 6 MONTHS OF OPERATION, THE INFILTRATION SYSTEM SHALL BE INSPECTED WITHIN 24 HOURS OF EACH RAINFALL EVENT THAT GENERATES .25 INCHES OF RAIN IN A 24 HOUR PERIOD. AFTER THE FIRST SIX MONTHS OF OPERATION, THE INFILTRATION SYSTEM SHALL BE INSPECTED TWICE PER YEAR.
- THE INFILTRATOR SHALL BE INSPECTED VIA THE INSPECTION MANHOLES. IN THE EVENT THAT THE SYSTEM HAS STANDING WATER FOR MORE THAN 72 HOURS AFTER A RAINFALL EVENT THE SYSTEM SHALL BE CONSIDERED FAILED. A FAILED SYSTEM MUST BE REPLACED OR REPAIRED BY THE RESPONSIBLE PARTY.
- THE INFILTRATOR SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF TWICE PER YEAR (SPRING AND FALL) UPON COMPLETION OF CONSTRUCTION.
- CATCH BASINS SHALL BE CLEANED A MINIMUM OF TWICE PER YEAR (SPRING AND FALL). REMOVED SILTS AND OIL SHALL BE DISPOSED OF AT A LICENSED WASTE FACILITY.
- 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 UNDESIRABLE OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE STORMWATER DISPOSAL SYSTEM REQUIRES IMMEDIATE NOTIFICATION OF THE RWQ-MC 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 DESIGN WILL REQUIRE THE PROPERTY OWNER TO REMEDIATE ANY INCIDENTS THAT MAY ADVERSELY AFFECT THE QUALITY OF THE GROUNDWATER.

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 APR 15 2010 FILE # 07-0193
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Signature

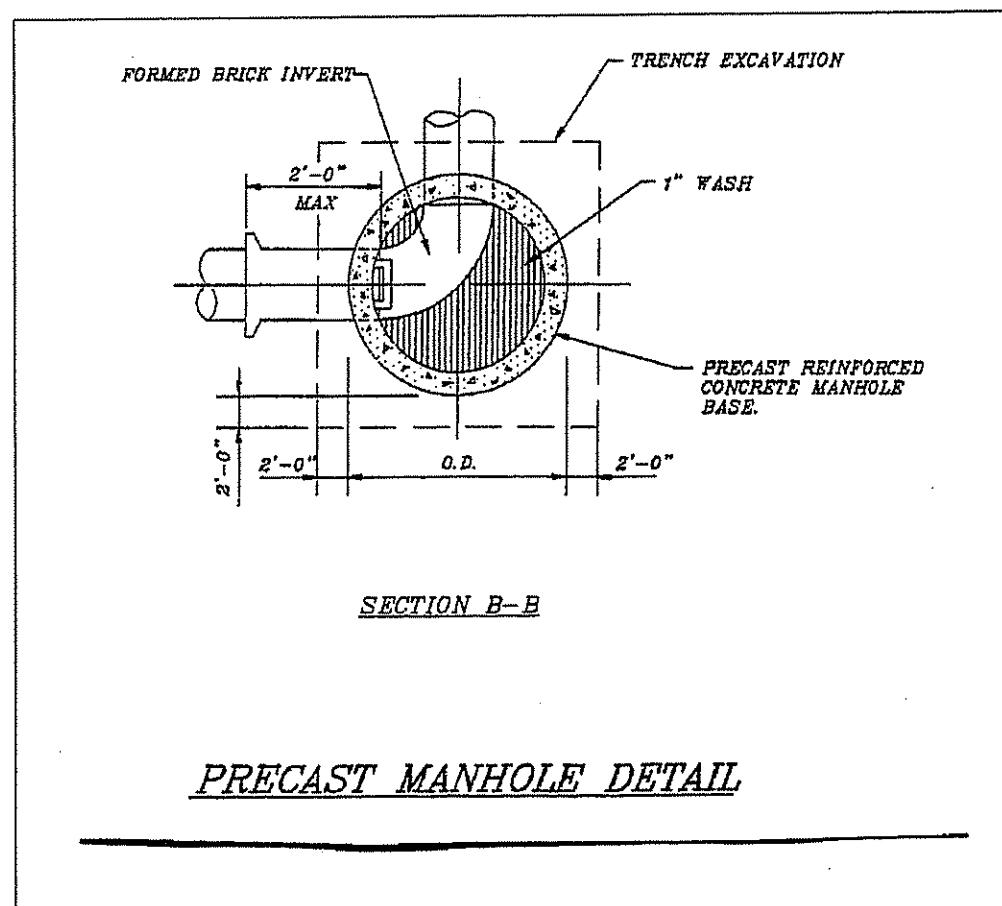


UNDERDRAIN TRENCH

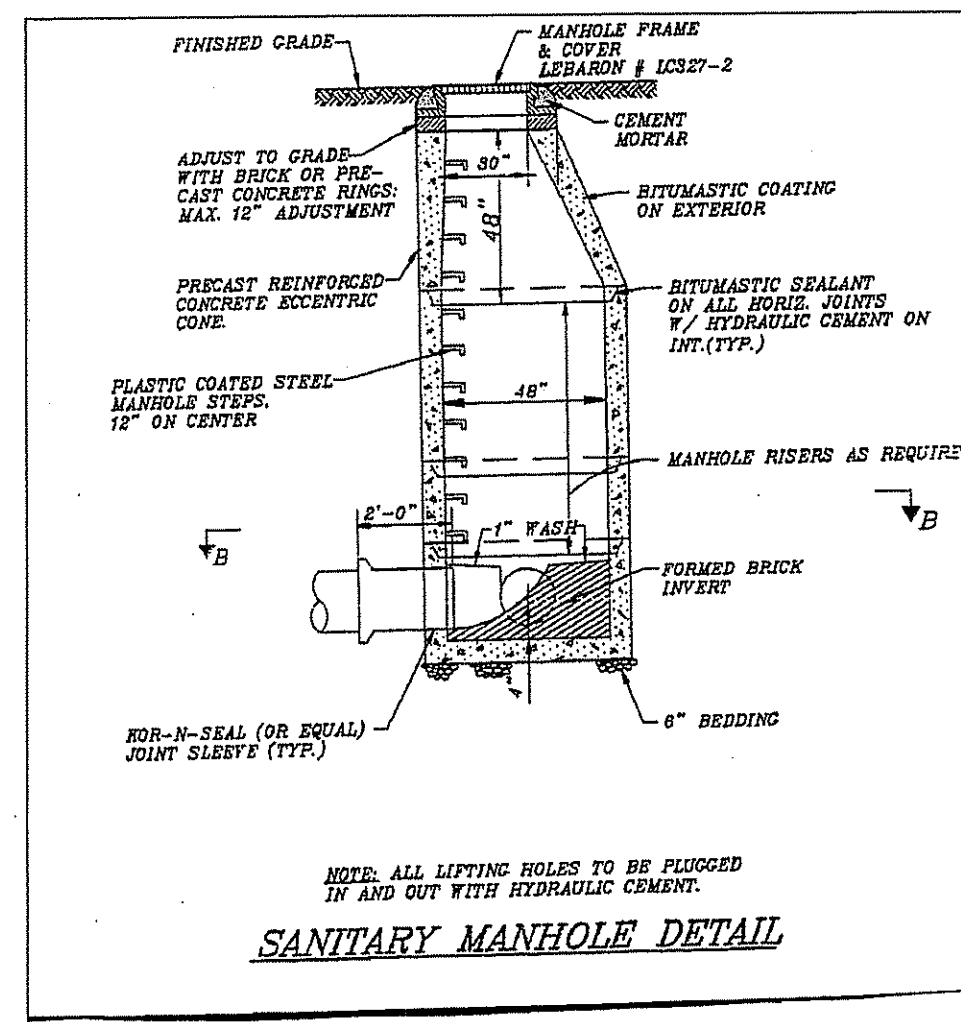
NOT TO SCALE

CLEAN-OUT DETAIL

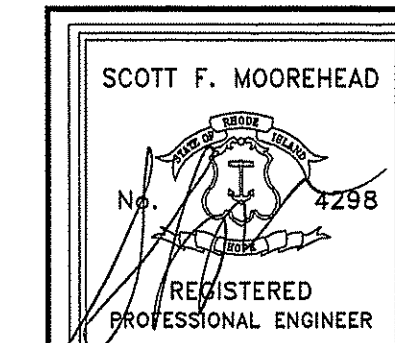
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PRECAST MANHOLE DETAIL



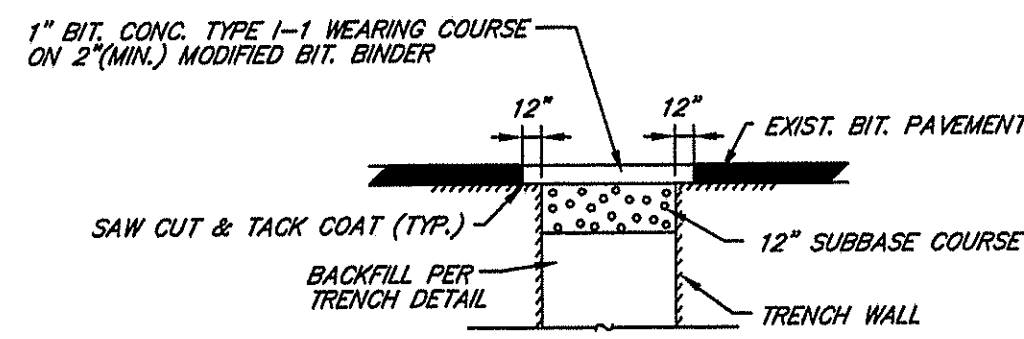
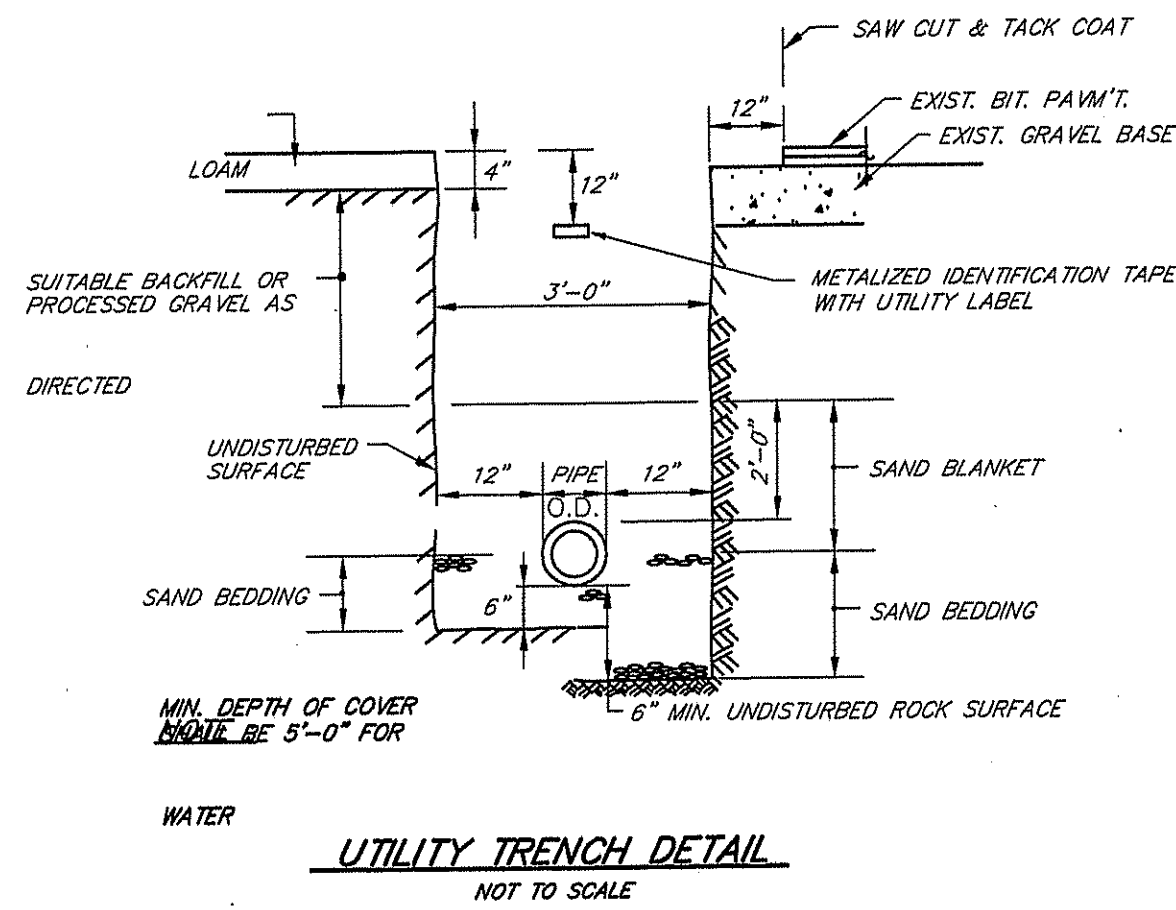
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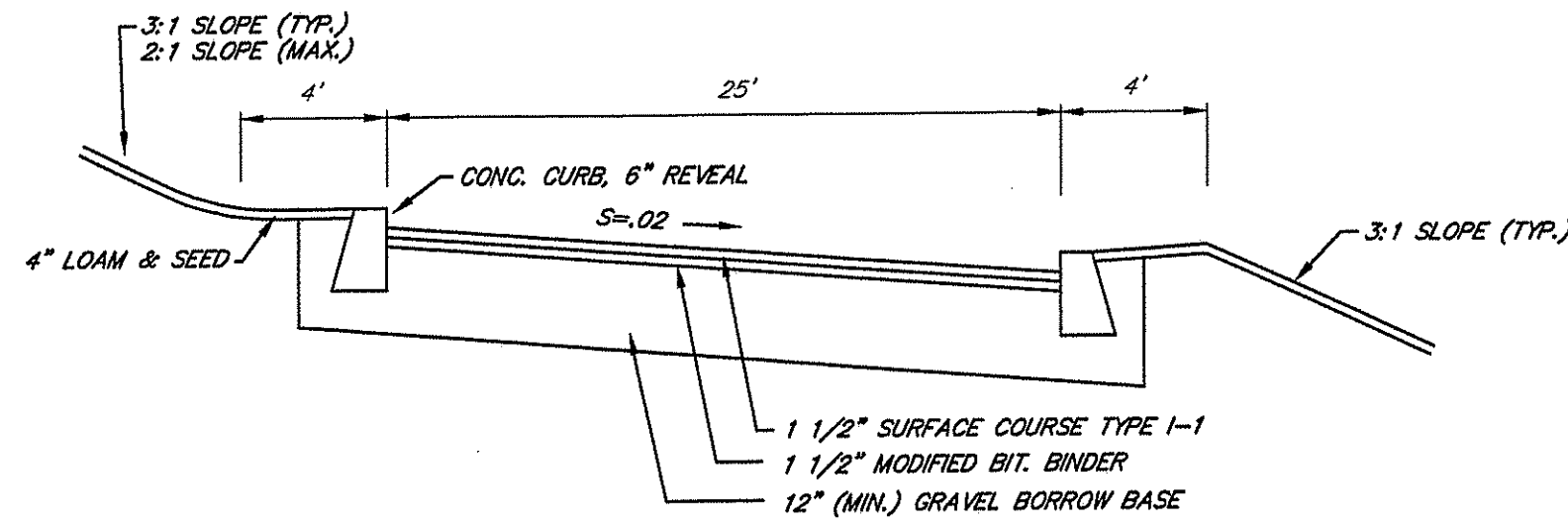
DATE	REVISION
12-15-09	FWW COMMENTS

DWN. BY: LBC DWG. NO. SFM697D-A
S.F.M. ENGINEERING ASSOCIATES
410 TIGUE AVENUE
COVENTRY, R.I. 02816
(401)826-3736

PROPOSED OFFICE DEVELOPMENT
ASSESSOR'S PLAT 11H LOT 42
MIDDLE ROAD
EAST GREENWICH, RHODE ISLAND
PREPARED FOR:
ONE AMERICAN WAY, LLC
2240 SOUTH COUNTY TRAIL
EAST GREENWICH, R.I. 02818
CONSTRUCTION DETAILS
DATE: MAR. 9, 2009 SCALE: AS-NOTED SHEET 4 OF 5



- NOTE:**
1. ALL PAVEMENT EDGES SHALL BE TACK COATED.
 2. RESAW CUT EXIST. BIT. PAVMT. 12" BEYOND ACTUAL TRENCH WIDTH PRIOR TO PLACEMENT OF PERMANENT PAVEMENT.
 3. TOTAL PAVMT. THICKNESS SHALL MATCH EXIST. PAVMT. OR BE 3" WHICHEVER IS GREATER.



GENERAL NOTES

1. ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (REVISION OF 6-30-2006) WITH ALL CORRECTIONS AND ADDENDA AND THE 11-10-2006 R.I. STANDARD DETAILS WITH ALL CORRECTIONS AND ADDENDA. THE LATEST R.I.D.O.T. SPECIFICATIONS AND DETAILS ARE AVAILABLE ONLINE AT WWW.DOT.RI.GOV/ENGINEERING
2. EMBANKMENT SLOPES AND ALL DISTURBED AREAS ARE TO RECEIVE 4" OF TOPSOIL AND SEED. SEE EROSION CONTROL PROGRAM.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
4. IN ALL EXCAVATION AND REPLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.
5. 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.
6. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF ALL STATE AND TOWN REGULATIONS AND PERMITS.

SEDIMENTATION CONTROL PROGRAM

1. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY SEDIMENTS FROM ENTERING THE WETLANDS OR ADJOINING PROPERTIES.
2. BANKS OR SLOPES OVER 5 PERCENT SHALL BE SEED AS SOON AS POSSIBLE AND SHALL BE PROTECTED WITH A HAY, STRAW OR FIBER MULCH.
3. DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
4. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
5. 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.
6. ADDITIONAL HAYBALES, SILT FENCE OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
7. REFERENCE THE "R.I. EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE, 1989, AS A GUIDE.

ORDER OF PROCEDURE

1. 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.
2. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY MAINTAINED AS PER THE RESPECTIVE PROGRAMS FOR TEMPORARY CONTROL.
3. IF WORK PROGRESS IS TO BE INTERRUPTED AT ANY TIME, REFERENCE EROSION AND SEDIMENTATION PROGRAMS FOR TEMPORARY CONTROL.
4. TEMPORARY HAYBALES AND SANDBAGS ALONG AND AT THE ENDS OF ROADWAYS MAY ALSO BE REMOVED AFTER FINAL SOIL STABILIZATION HAS BEEN ACHIEVED AND APPROVED.
5. HAYBALES LOCATED AT DRAINAGE INLETS OR OUTLETS MUST REMAIN UNTIL SUCH TIME THAT A DESIRABLE STAND OF GRASS OR GROUND COVER HAS BEEN ESTABLISHED AND THE PROJECT RECEIVES A FAVORABLE APPROVAL FOR FINAL ACCEPTANCE FROM THE ENGINEER.

EROSION CONTROL & SOIL STABILIZATION PROGRAM

1. DENUDE SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
2. ALL DISTURBED SLOPES, EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
3. 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.
4. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
5. THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING PERMANENT SEEDING MIXTURES:

A. MOWED AREA (ALL FLATS OR SLOPES LESS THAN 3:1)

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	

B. 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	
BIRDSEED TREFOIL	15	
TOTAL	100 LBS/AC	

C. 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	
REED CANARY GRASS	7	
REDDOP	4	
TOTAL	200 LBS/AC	

6. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS) THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
7. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000-4,000 LBS/AC.

8. ALL HAYBALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING CAN HELP TO MINIMIZE EROSION. A TEMPORARY SEEDING GUIDE MUST BE INCLUDED AS A REFERENCE. THE FOLLOWING SPECIES ARE RECOMMENDED:

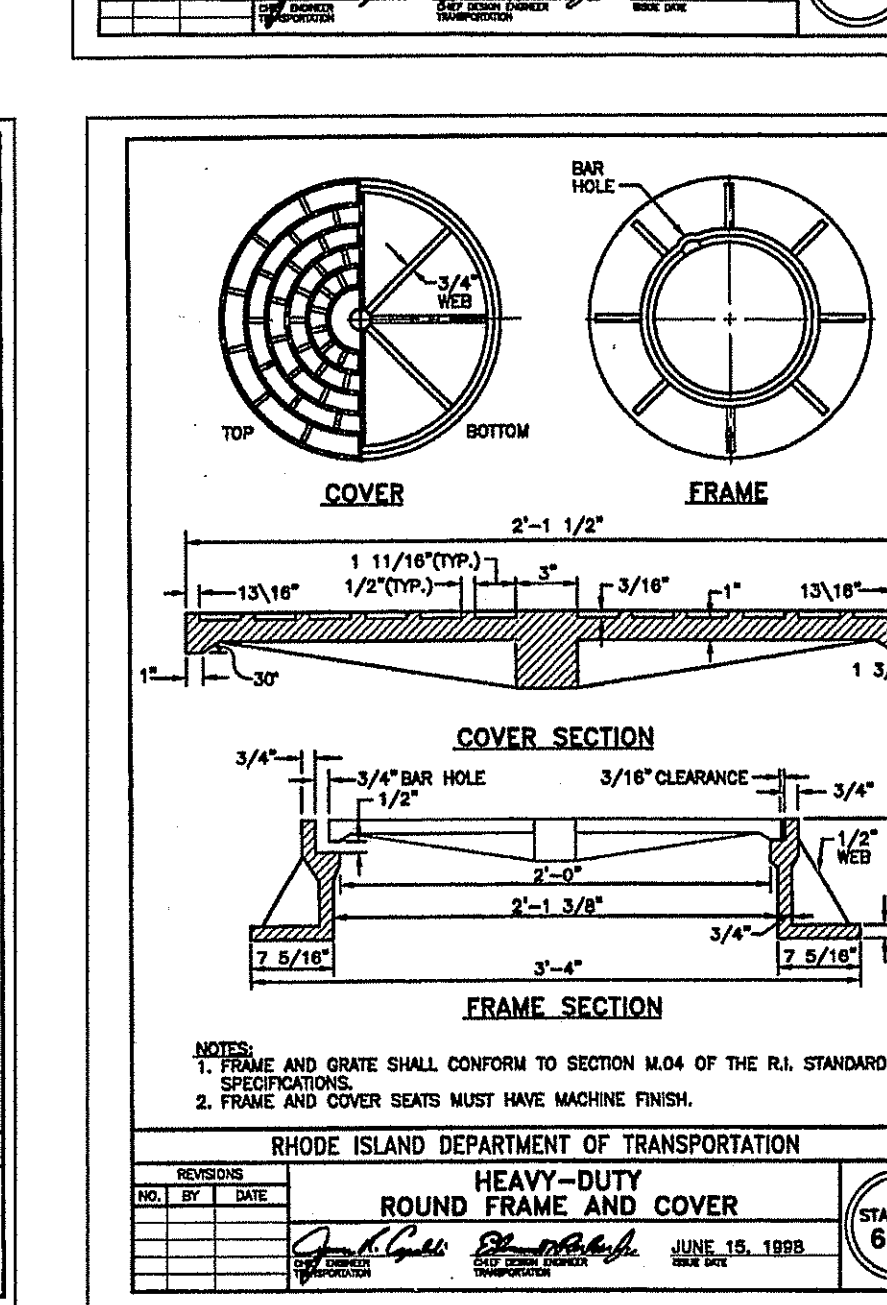
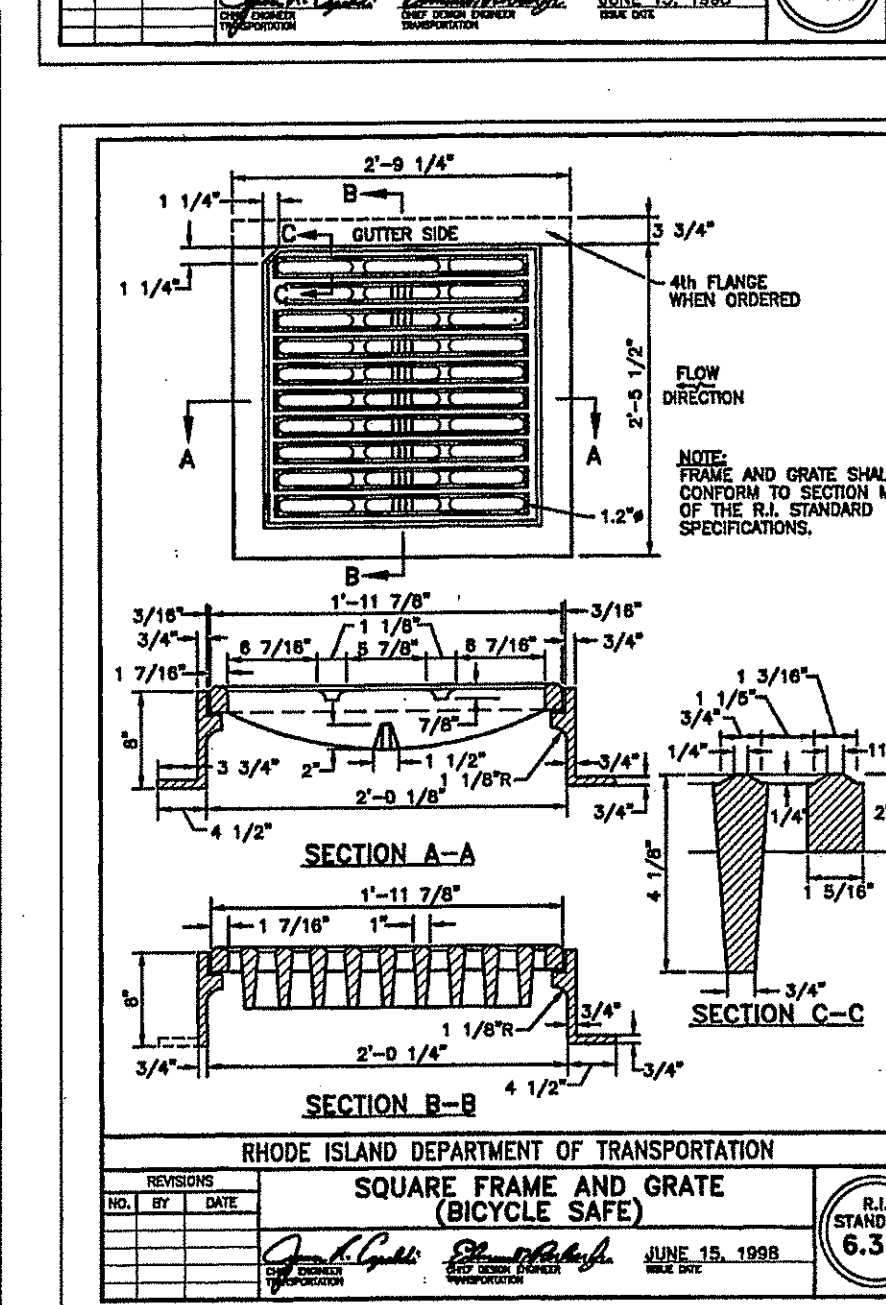
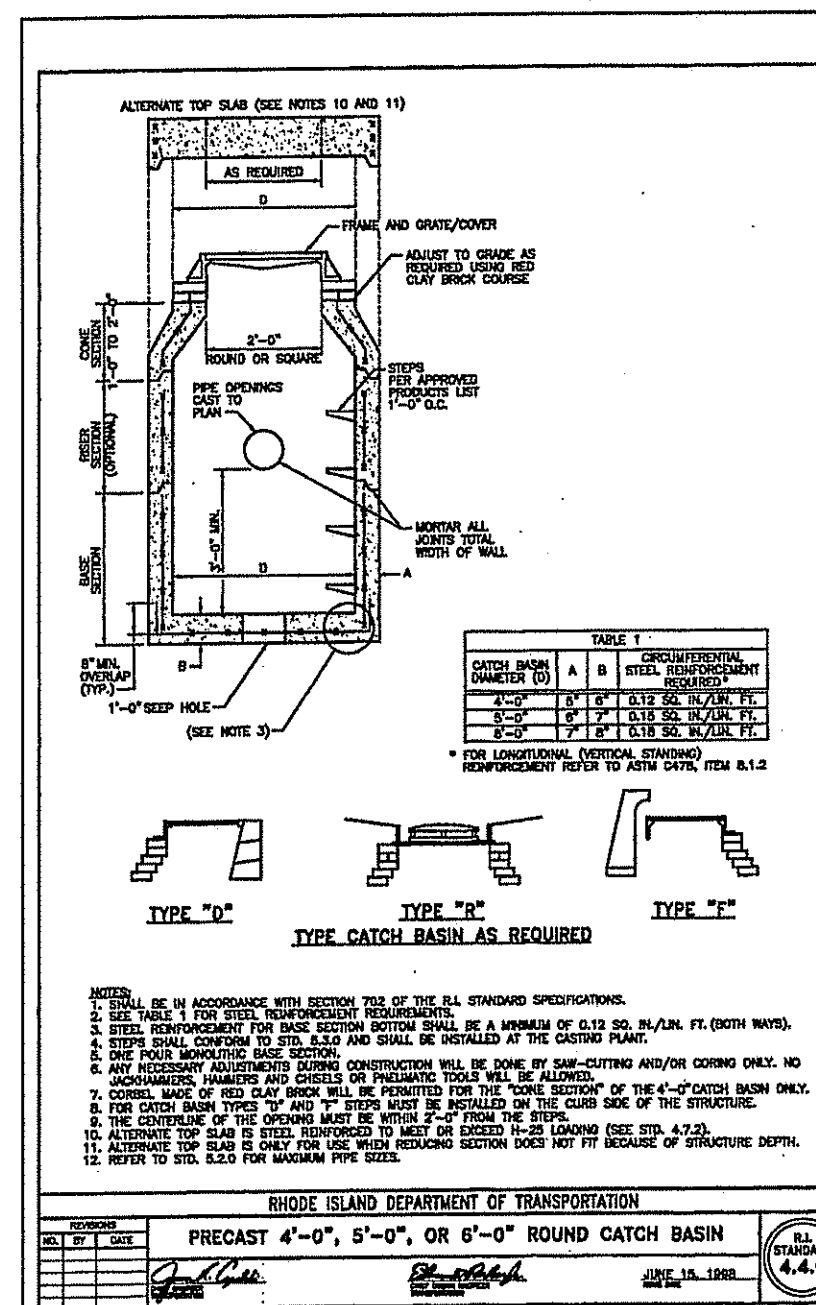
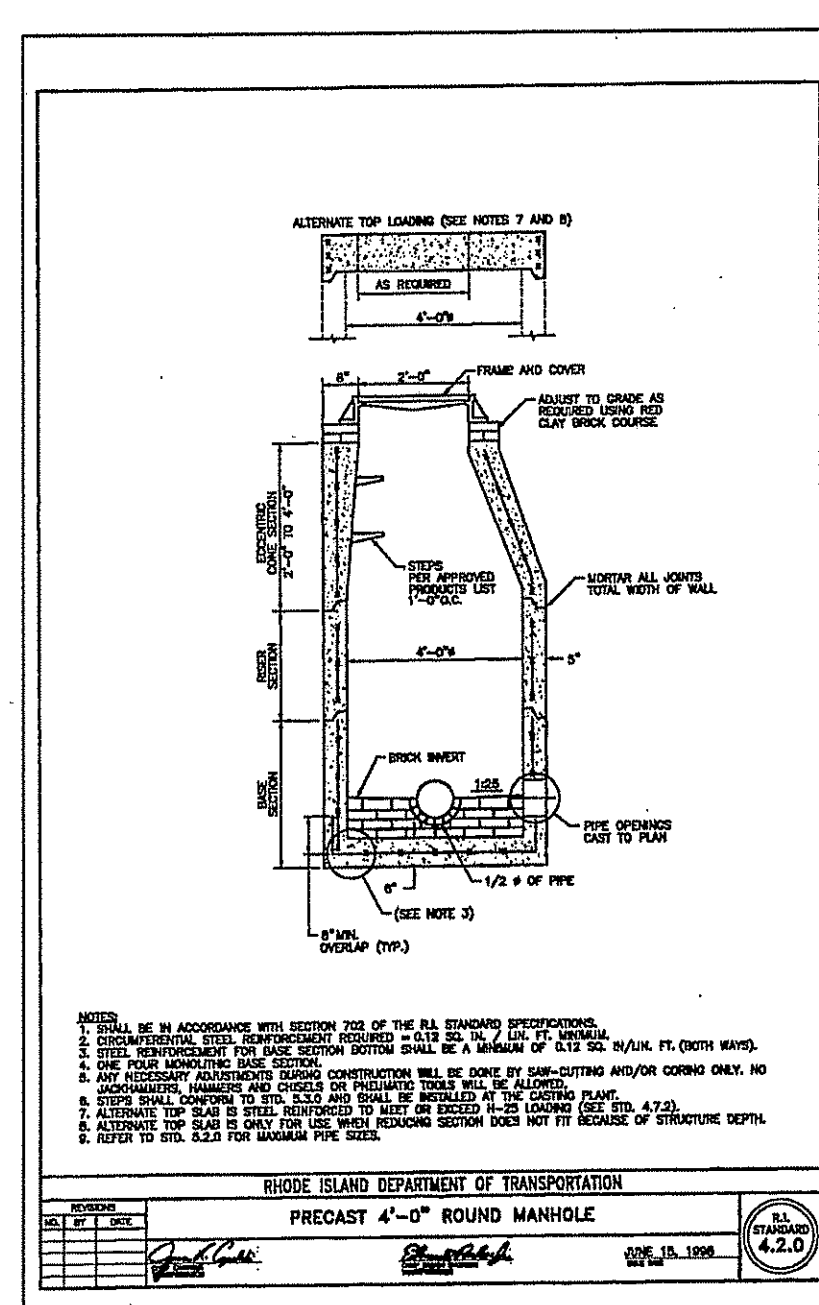
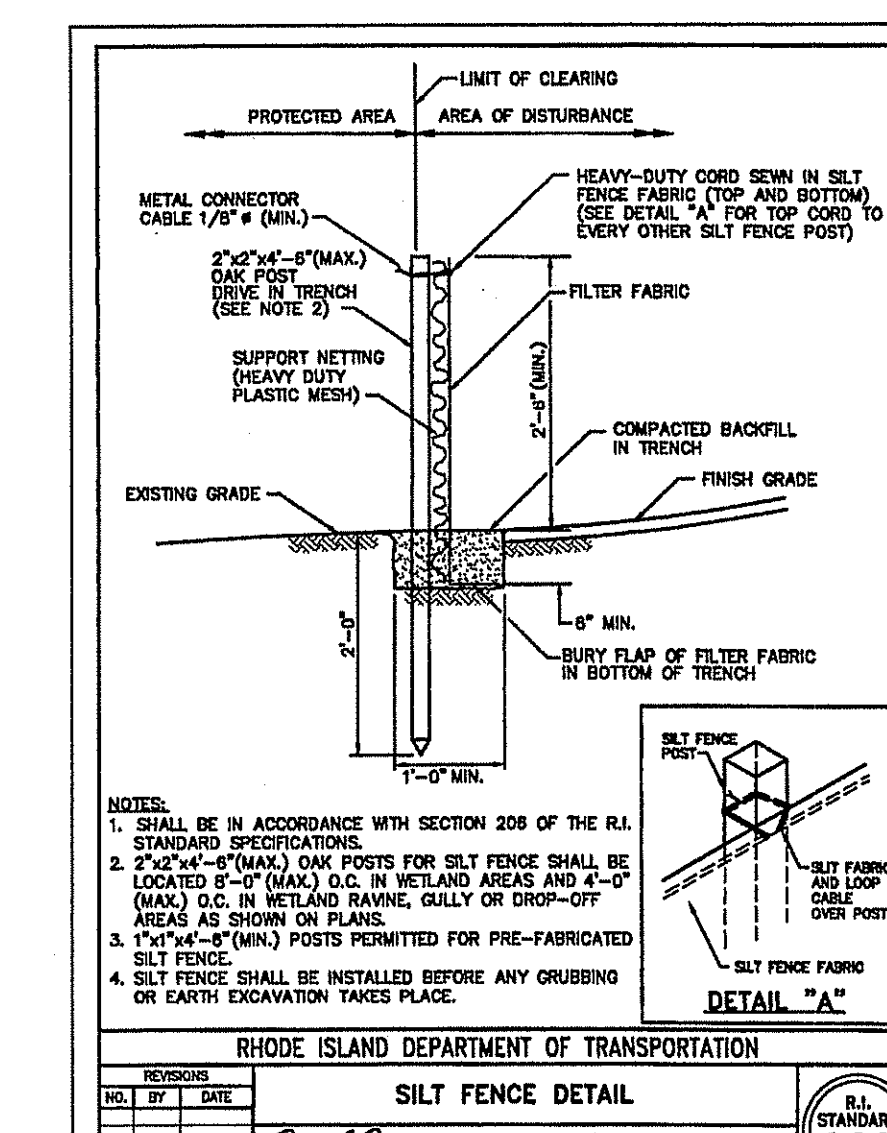
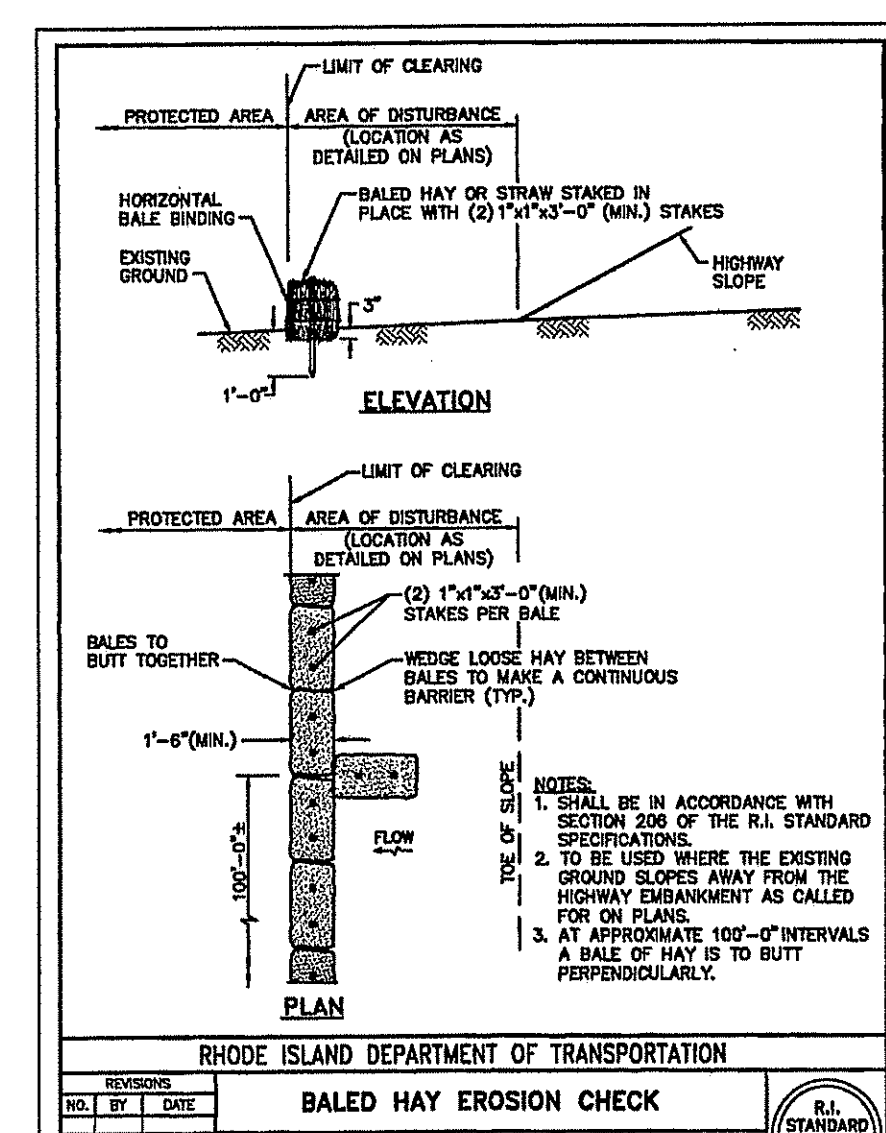
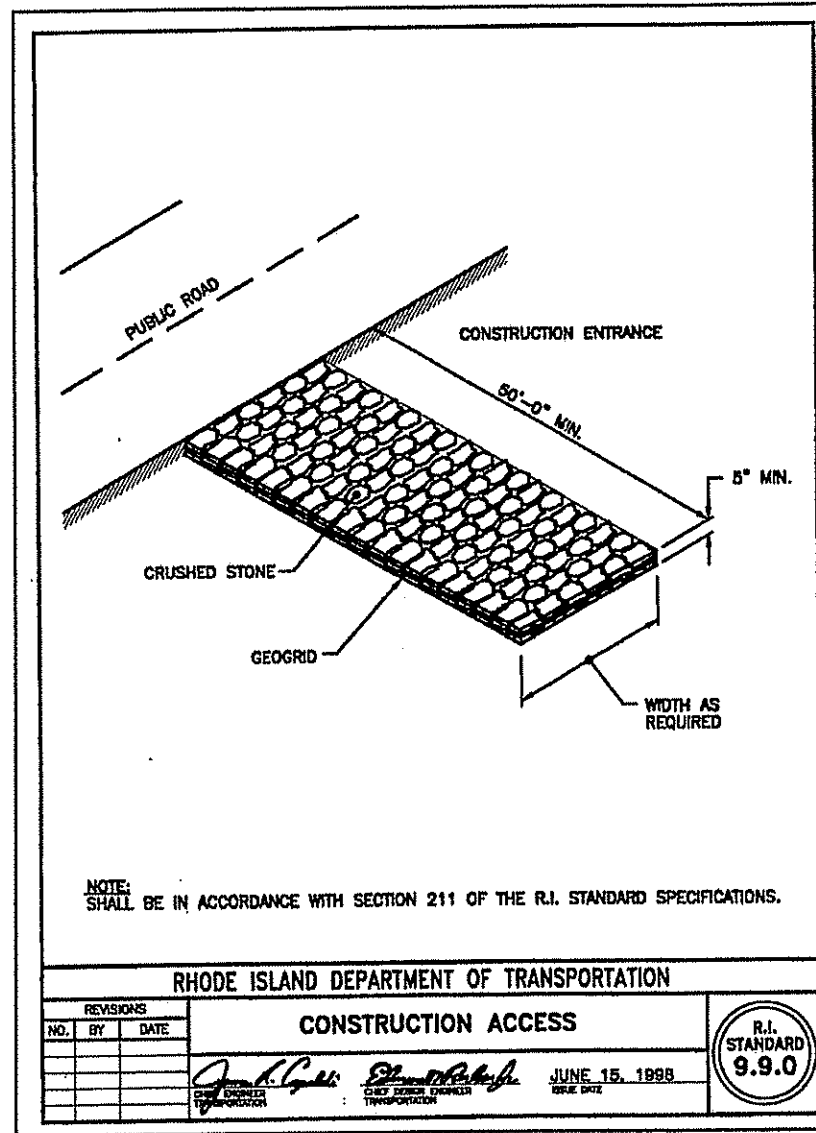
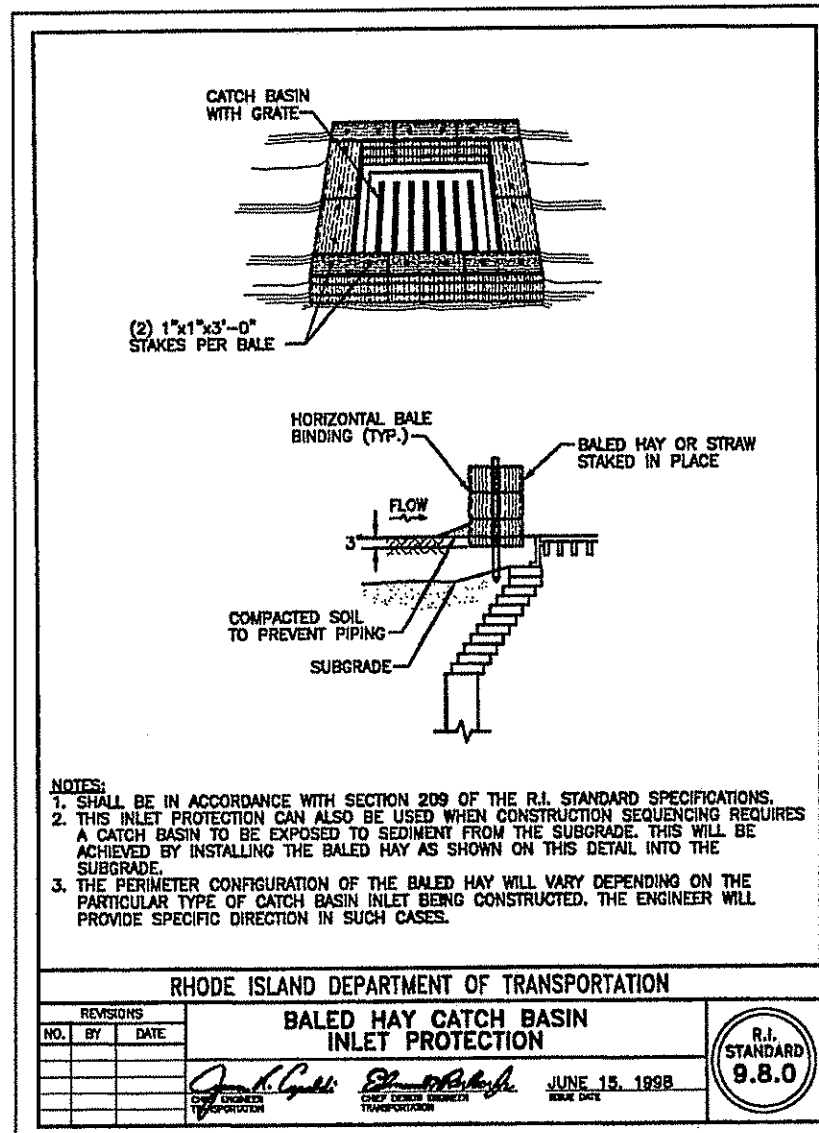
SPECIES	LBS./1,000 S.F.	LBS./AC	SEEDING DATES
ANNUAL RYEGRASS	1.0 - 1.5	40 - 60	3/1 - 6/1
PERENNIAL RYEGRASS	1.0 - 1.5	40 - 60	3/1 - 6/1
SUDAN GRASS	0.7 - 1.0	30 - 40	5/15 - 8/15
MILLET	0.7 - 1.0	30 - 40	5/15 - 8/15
WINTER RYE	3.0	120	4/15 - 6/15

9. 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.
10. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1 - OCTOBER 15.

11. ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE R.I.D.P.W. STD. SPECIFICATIONS SECTION 202.
12. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 15 DAYS OF FINAL GRADING.

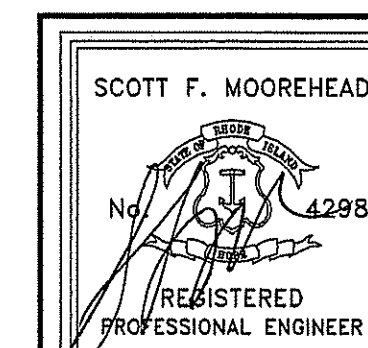
13. STOCKPILES OF TOPSOILS SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES SHALL ALSO BE SEED AND/OR STABILIZED.

14. ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
15. REFERENCE THE SEDIMENTATION CONTROL PROGRAM AND ORDER OF PROCEDURE FOR PROPER COORDINATION.



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 APR 15 2010 FILE # 09-0173
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED BY AMS MUST BE AT CONSTRUCTION SITE.



DATE	REVISION

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

PROPOSED OFFICE DEVELOPMENT
ASSESSOR'S PLAT 11H LOT 42
MIDDLE ROAD
EAST GREENWICH, RHODE ISLAND
PREPARED FOR:
ONE AMERICAN WAY, LLC
2240 SOUTH COUNTY TRAIL
EAST GREENWICH, R.I. 02818

EROSION CONTROL NOTES & DETAILS
DATE: MAR. 9, 2009 SCALE: AS NOTED SHEET 5 OF 5