

**LEGEND**

- EXIST. CONTOUR
- EXIST. STONE WALL
- EXIST. TREE LINE
- EXIST. UTILITY POLE
- EXIST. CATCH BASIN
- EXIST. GAS LINE
- EXIST. WATER LINE
- EXIST. OVERHEAD WIRE
- SOIL EVALUATION
- LIMIT OF DISTURBANCE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED JAN. 24, 2013 FILE # 12-0115  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

**SHEET INDEX**

- GENERAL NOTES**
- PROPERTY LINE AND TOPOGRAPHIC INFORMATION FROM PLANS BY ALPHA ASSOCIATES, LTD.
  - REFERENCE FRESHWATER WETLANDS PERMIT NO. 12-0115, RIPDES PROGRAM NO. RIR100946, AND UIC PROGRAM NO. 001537.
  - DEVELOPMENT TO BE SERVICED BY PUBLIC WATER.
  - DEVELOPMENT TO BE SERVICED BY ONSITE WASTEWATER SYSTEMS. REFERENCE O.W.T.S. PERMIT NO. 1109-9209.
  - ENTIRE PARCEL FALLS WITHIN ZONE X (AREA OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN) PANEL 44003C251G, AS REVISED DEC. 3, 2010.
  - ALL WORK WITHIN THE STATE HIGHWAY SHALL CONFORM TO THE REQUIREMENTS OF PAPA No. 120711 AND SHALL CONFORM TO THE R.I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (REVISION OF 12-1-2010) WITH ALL CORRECTIONS AND ADDENDA AND THE 12-1-2010 R.I. STANDARD DETAILS WITH ALL CORRECTIONS AND ADDENDA. THE LATEST RIDOT SPECIFICATIONS AND DETAILS ARE AVAILABLE ONLINE AT WWW.DOT.RI.GOV/ENGINEERING/STANDARDS/INDEX.ASP.

**PARCEL ZONING**

ZONE F-1

MIN. LOT AREA	1 ACRE
MIN. FRONT FRONTAGE	150'
FRONT SETBACK	50'
SIDE SETBACK	30'
REAR SETBACK	45'
BUILDING COVERAGE	<25%
IMPERVIOUS COVERAGE	<60%
MAXIMUM BUILDING HEIGHT	35'

\*LOT APPROVED PRIOR TO 12/27/94

**PROPOSED DEVELOPMENT AREAS**

BUILDING	9,800 S.F.	11.01 %
PAVEMENT	18,541 S.F.	20.82 %
LANDSCAPED	60,701 S.F.	68.17 %
<b>TOTAL</b>	<b>89,042 S.F.</b>	<b>100.0 %</b>

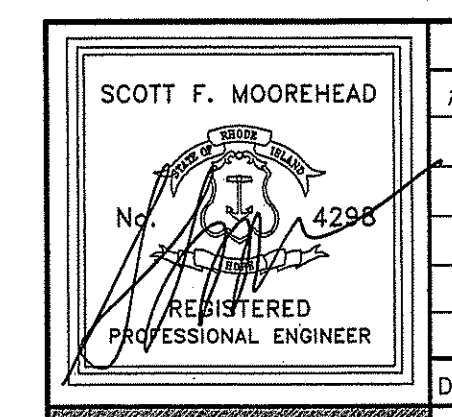
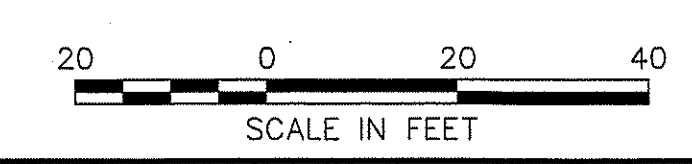
**PROPOSED DEVELOPMENT DATA**

9800 S.F. DAYCARE FACILITY FOR 145 TO 155 CHILDREN  
 6800 S.F. NET FLOOR AREA  
 1600 S.F. BASEMENT AREA FOR UTILITIES AND STORAGE ONLY  
 REQUIRED PLAY AREA = 113 CHILDREN X 75 = 8475 S.F.  
 PROVIDED PLAY AREA = 9136 S.F.

**PROPOSED PARKING DATA**

REQ'D. 1 SPACE PER 500 S.F. + 1 SPACE PER EMPLOYEE ON LARGEST SHIFT  
 REQUIRED PARKING: 6800 ÷ 500 = 14 + 20 = 34 REQ'D.  
 40 PAVED PARKING SPACES PROVIDED

SHT. NO.	DESCRIPTION
1	OVERALL SITE PLAN
2	EXISTING CONDITIONS PLAN
3	SITE LAYOUT & UTILITY PLAN
4	SITE GRADING & DRAINAGE PLAN
5	CONSTRUCTION DETAILS - 1
6	CONSTRUCTION DETAILS - 2
7	CONSTRUCTION DETAILS - 3
8	EROSION CONTROL NOTES & DETAILS
9	UTILITY DETAILS
10	LANDSCAPE PLAN
11	LANDSCAPE DETAILS



DATE	REVISION
11-29-12	ABUTTER

DWN. BY: LBC DWG. NO. SFM7785P-A



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

**PROPERTY OWNER**

ASHLEY REAL ESTATE, LLC  
 85 BASIL CROSSING  
 CRANSTON, R.I. 02921

**THE STORK'S NEST CHILD ACADEMY**

3116 SOUTH COUNTY TRAIL  
 MAP 17 A.P. 17 LOT 53  
 EAST GREENWICH, RI

PREPARED FOR:  
 STORK'S NEST CHILD ACADEMY, INC.  
 1100 TOLLGATE ROAD  
 WARWICK, RI 02886

**OVERALL SITE PLAN**

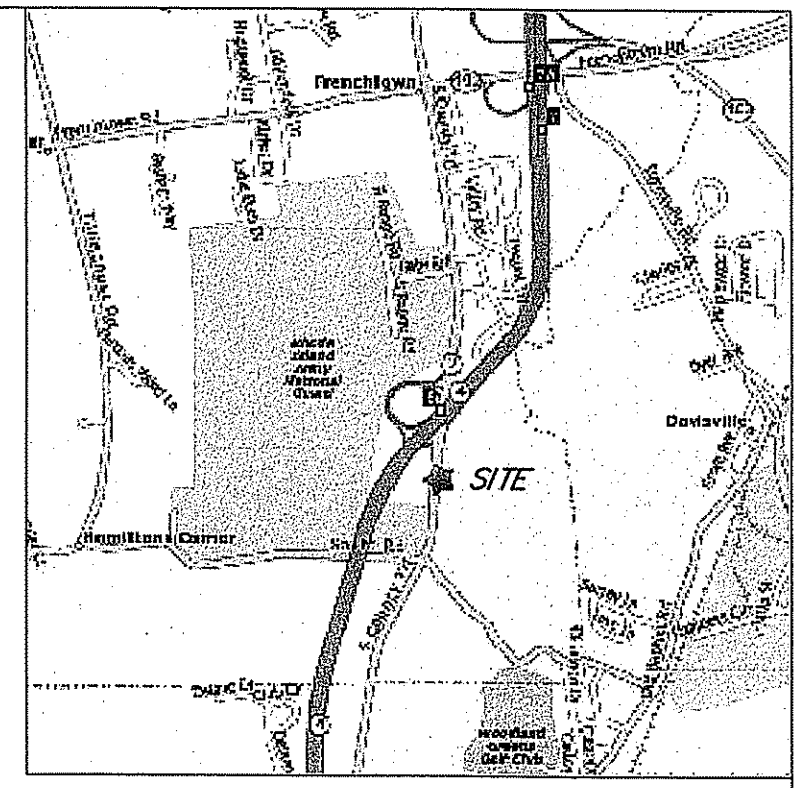
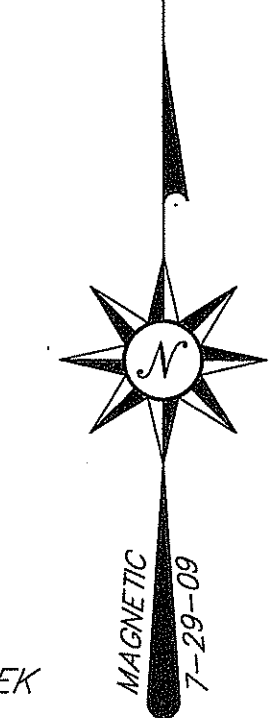
DATE: NOV. 9, 2012 SCALE: 1" = 20' SHEET 1 OF 11

**NOTE:**

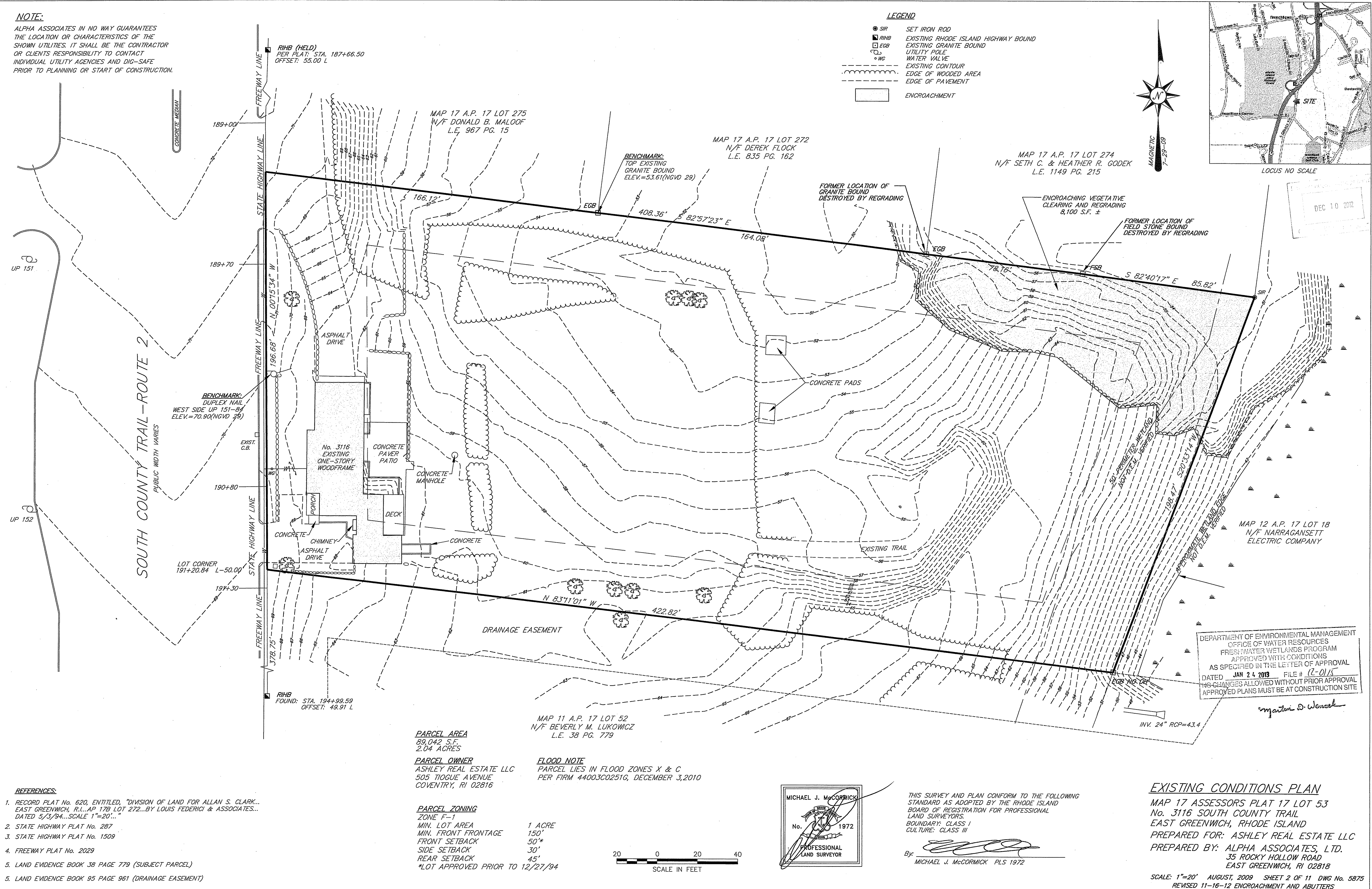
ALPHA ASSOCIATES IN NO WAY GUARANTEES THE LOCATION OR CHARACTERISTICS OF THE SHOWN UTILITIES. IT SHALL BE THE CONTRACTOR OR CLIENTS RESPONSIBILITY TO CONTACT INDIVIDUAL UTILITY AGENCIES AND DIG-SAFE PRIOR TO PLANNING OR START OF CONSTRUCTION.

**LEGEND**

- SIR SET IRON ROD
- RIHB EXISTING RHODE ISLAND HIGHWAY BOUND
- EGB EXISTING GRANITE BOUND
- UP UTILITY POLE
- WV WATER VALVE
- EXISTING CONTOUR
- - - EDGE OF WOODED AREA
- - - EDGE OF PAVEMENT
- ▭ ENCROACHMENT



DEC 10 2012



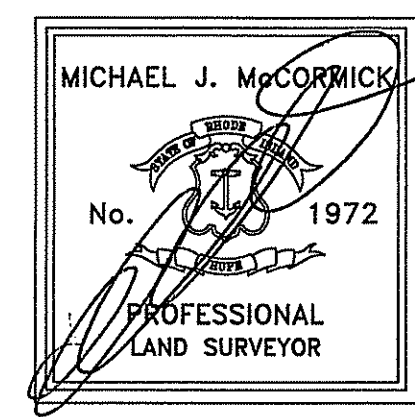
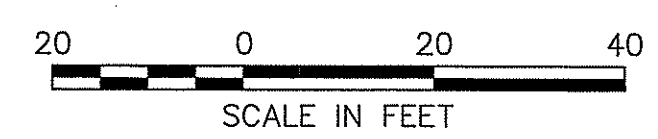
SOUTH COUNTY TRAIL - ROUTE 2  
PUBLIC WIDTH VARIES

**PARCEL AREA**  
89,042 S.F.  
2.04 ACRES

**PARCEL OWNER**  
ASHLEY REAL ESTATE LLC  
505 TIOGUE AVENUE  
COVENTRY, RI 02816

**PARCEL ZONING**  
ZONE F-1  
MIN. LOT AREA 1 ACRE  
MIN. FRONT FRONTAGE 150'  
FRONT SETBACK 50'\*  
SIDE SETBACK 30'  
REAR SETBACK 45'  
\*LOT APPROVED PRIOR TO 12/27/94

**FLOOD NOTE**  
PARCEL LIES IN FLOOD ZONES X & C  
PER FIRM 44003C02516, DECEMBER 3, 2010



THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.  
BOUNDARY: CLASS I  
CULTURE: CLASS III

By: *[Signature]*  
MICHAEL J. McCORMICK PLS 1972

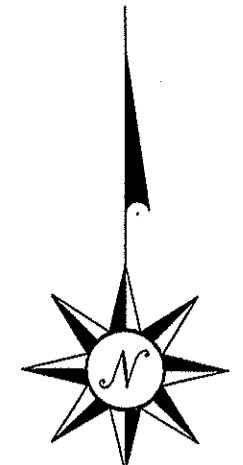
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
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DATED JAN 24 2013 FILE # (L-015)  
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*[Signature]*

**EXISTING CONDITIONS PLAN**  
MAP 17 ASSESSORS PLAT 17 LOT 53  
No. 3116 SOUTH COUNTY TRAIL  
EAST GREENWICH, RHODE ISLAND  
PREPARED FOR: ASHLEY REAL ESTATE LLC  
PREPARED BY: ALPHA ASSOCIATES, LTD.  
35 ROCKY HOLLOW ROAD  
EAST GREENWICH, RI 02818

SCALE: 1"=20' AUGUST, 2009 SHEET 2 OF 11 DWG No. 5875  
REVISED 11-16-12 ENCROACHMENT AND ABUTTERS

- REFERENCES:**
- RECORD PLAT No. 620, ENTITLED, "DIVISION OF LAND FOR ALLAN S. CLARK... EAST GREENWICH, R.I., AP 17B LOT 272... BY LOUIS FEDERICI & ASSOCIATES... DATED 5/3/94... SCALE 1"=20'..."
  - STATE HIGHWAY PLAT No. 287
  - STATE HIGHWAY PLAT No. 1509
  - FREEWAY PLAT No. 2029
  - LAND EVIDENCE BOOK 38 PAGE 779 (SUBJECT PARCEL)
  - LAND EVIDENCE BOOK 95 PAGE 961 (DRAINAGE EASEMENT)



DEC 10 2012

A.P. 17 LOT 16  
N/F TOWN OF  
EAST GREENWICH

A.P. 17 LOT 18  
N/F NARRAGANSETT  
ELECTRIC COMPANY

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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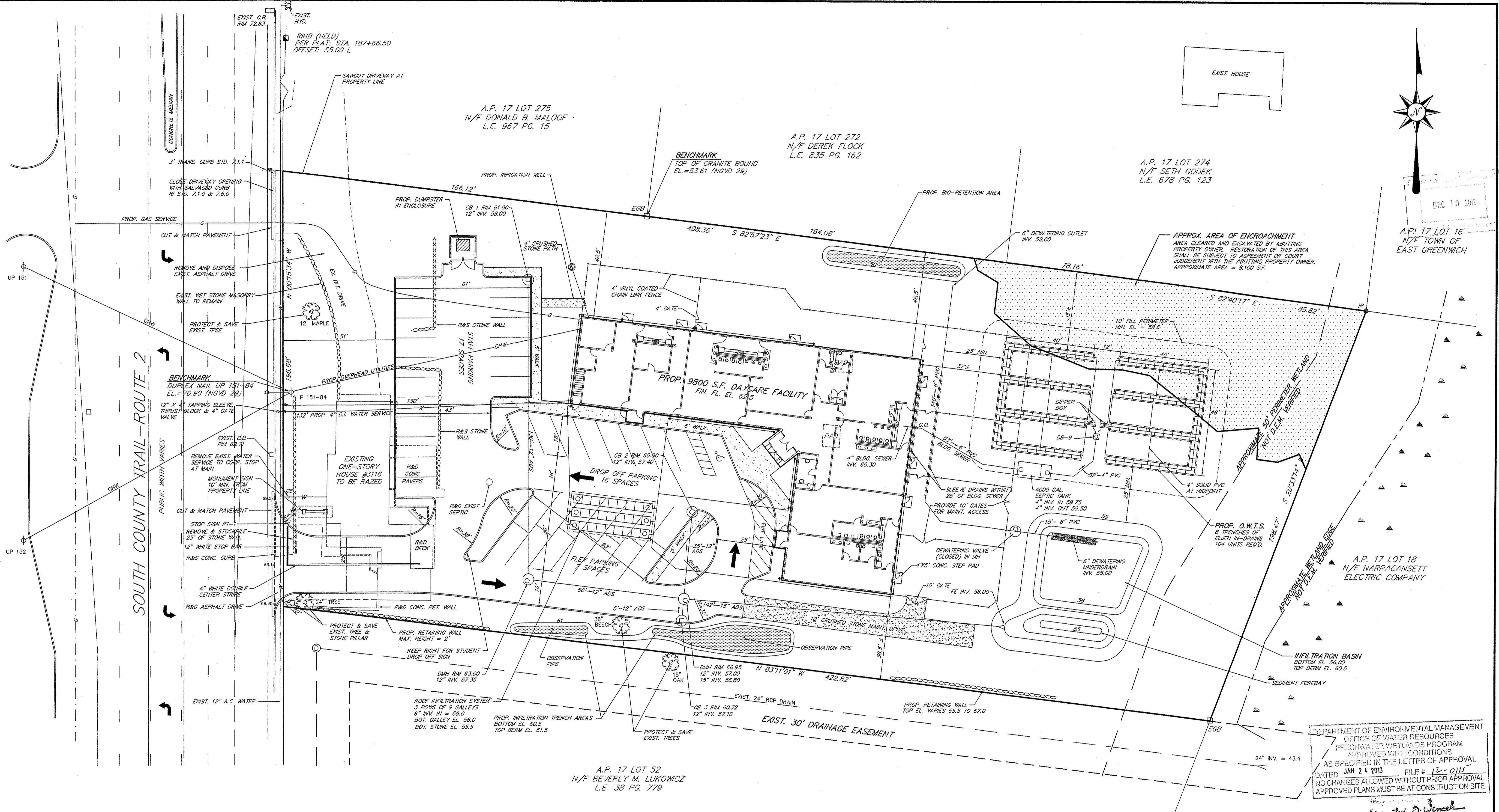
*Signature*

A.P. 17 LOT 274  
N/F SETH CODEK  
L.E. 678 PG. 123

A.P. 17 LOT 272  
N/F DEREK FLOCK  
L.E. 835 PG. 162

A.P. 17 LOT 275  
N/F DONALD B. MALOOF  
L.E. 967 PG. 15

SOUTH COUNTY TRAIL - ROUTE 2  
PUBLIC WIDTH VARIES



A.P. 17 LOT 52  
N/F BEVERLY M. LUKOWICZ  
L.E. 38 PG. 779

**UTILITY NOTES:**

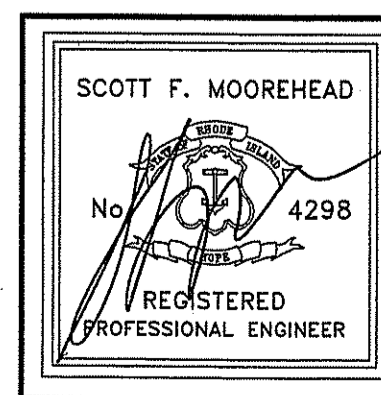
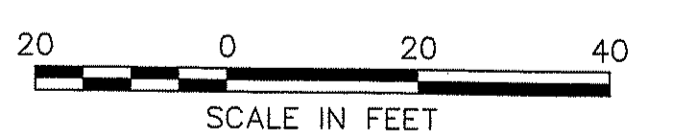
1. LOCATIONS AND SIZES OF EXISTING UTILITIES IS PLOTTED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY ALL INFORMATION WITH THE APPROPRIATE UTILITY AUTHORITY AND DIG SAFE PRIOR TO ANY CONSTRUCTION OR EXCAVATION.
2. EXPLORATORY TEST PITS SHALL BE EXCAVATED TO CONFIRM LOCATION AND DEPTH AT ANY CRITICAL AREAS, AS REQUIRED.
3. ALL O.W.T.S. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RIDEM O.W.T.S. PERMIT NO. 1109-9209.
4. THE O.W.T.S. INSTALLATION MUST BE INSPECTED AND APPROVED BY SFM ENGINEERING. THE INSTALLER MUST PROVIDE 48 HOURS NOTICE TO SFM ENGINEERING FOR ALL REQUIRED INSPECTIONS.
5. BUILDING SEWER LOCATIONS AND ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS. ANY DEVIATION IN LOCATION AND ELEVATION FROM THE APPROVED O.W.T.S. PLANS MUST BE APPROVED BY SFM ENGINEERING.
6. ALL WATER WORK SHALL BE IN ACCORDANCE WITH THE POLICIES AND PRACTICES OF THE KENT COUNTY WATER AUTHORITY.
7. WATER LINES SHALL BE INSTALLED A MINIMUM OF 25" FROM THE O.W.T.S.

**O.W.T.S. DESIGN DATA**

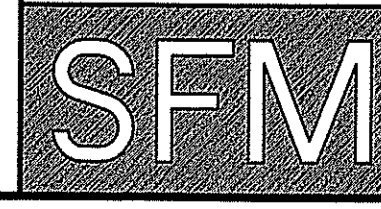
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 SOILS IN SYSTEM AREA ARE GRAVELLY SAND AND SAND,  
 SOIL CATEGORIES 1M AND 1.  
 DESIGN APPLICATION RATE = 0.61 GPD/S.F.  
 REQ'D. LEACHING AREA = 1750 ÷ .61 = 2869 S.F.  
 EFFECTIVE LEACHING AREA = 104 X 28 = 2912 S.F.  
 SEE O.W.T.S. DETAILS AND NOTES ON SHEET 6.

**LEGEND**

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- EXIST. UTILITY POLE
- EXIST. CATCH BASIN
- G - EXIST. GAS LINE
- W - EXIST. WATER LINE
- OHW - EXIST. OVERHEAD WIRE
- ⊙ SE2 SOIL EVALUATION
- - - LIMIT OF DISTURBANCE



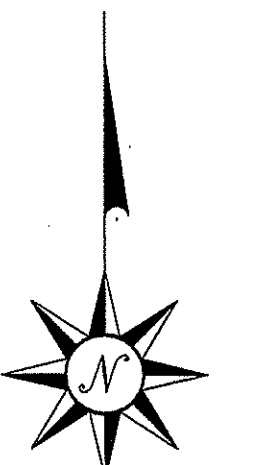
DATE	REVISION
11-29-12	UTILITY & O.W.T.S. NOTES



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 COVENTRY, R.I. 02816  
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 MAP 17 A.P. 17 LOT 53  
 EAST GREENWICH, RI  
 PREPARED FOR:  
 STORK'S NEST CHILD ACADEMY, INC.  
 1100 TOLLGATE ROAD  
 WARWICK, RI 02886

**SITE LAYOUT & UTILITY PLAN**  
 DATE: NOV. 9, 2012 SCALE: 1" = 20' SHEET 3 OF 11



DEC 10 2012

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N/F TOWN OF  
EAST GREENWICH

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N/F NARRAGANSETT  
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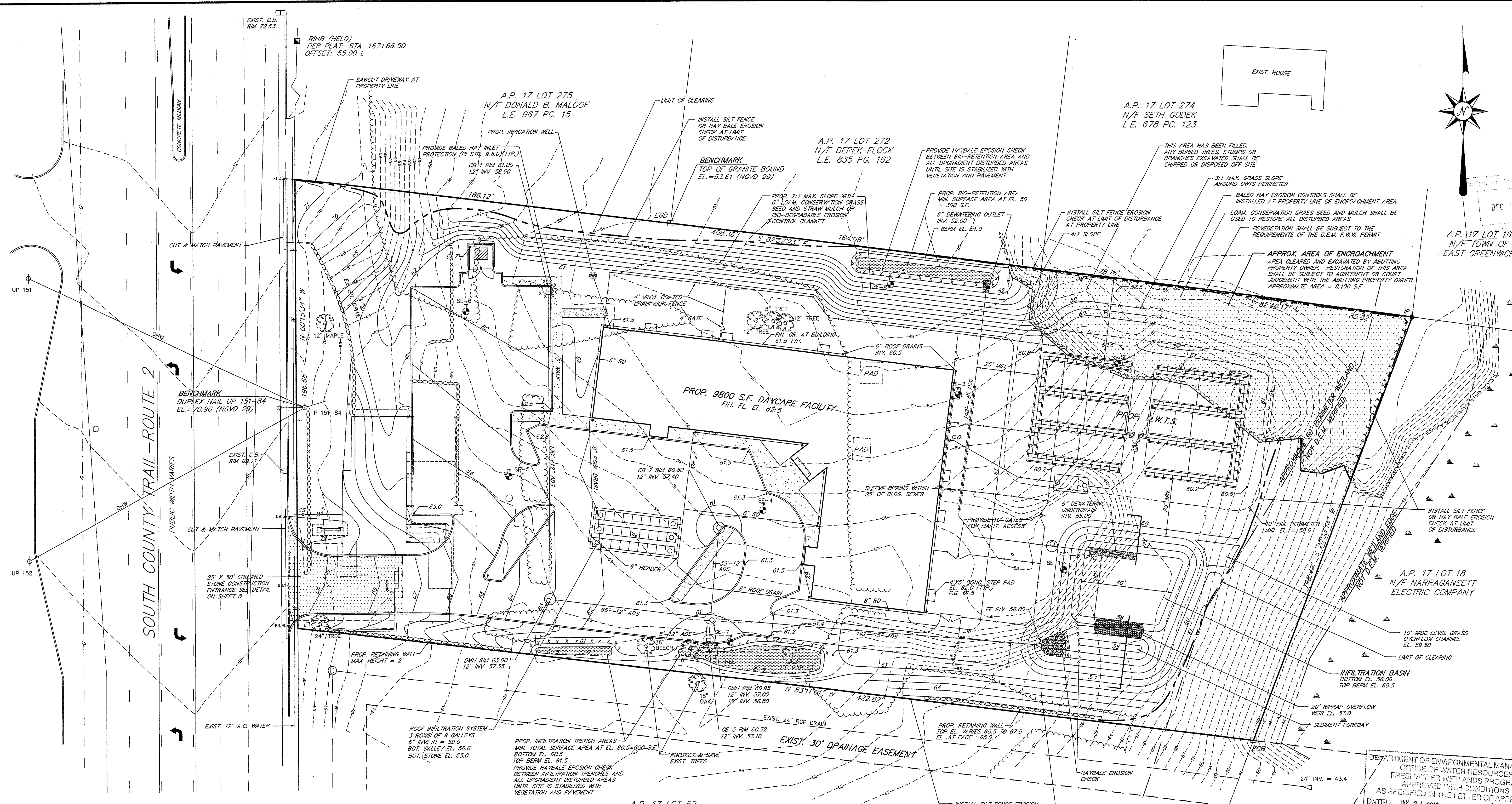
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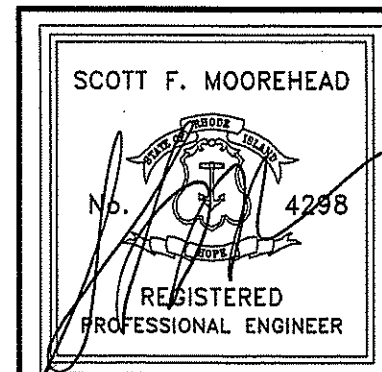
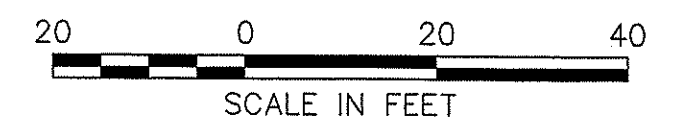
SOUTH COUNTY TRAIL - ROUTE 2



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*Matthew D. Wenzel*

- LEGEND**
- 40--- EXIST. CONTOUR
  - 40--- PROP. CONTOUR
  - EXIST. STONE WALL
  - EXIST. TREE LINE
  - P-33 EXIST. UTILITY POLE
  - EXIST. CATCH BASIN
  - x 47.0 EXIST. SPOT ELEV.
  - 47.0 PROP. SPOT ELEV.
  - SE2 SOIL EVALUATION
  - LIMIT OF DISTURBANCE
  - x x x x BALED HAY EROSION CHECK



DATE	REVISION
11-29-12	GRADING, NOTES

**SFM**

S.F.M. ENGINEERING ASSOCIATES  
410 TIOGUE AVENUE  
COVENTRY, RI 02816  
401)826-3736  
SCOTT@SFM.NECOXMAIL.COM

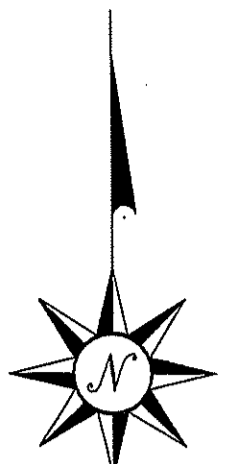
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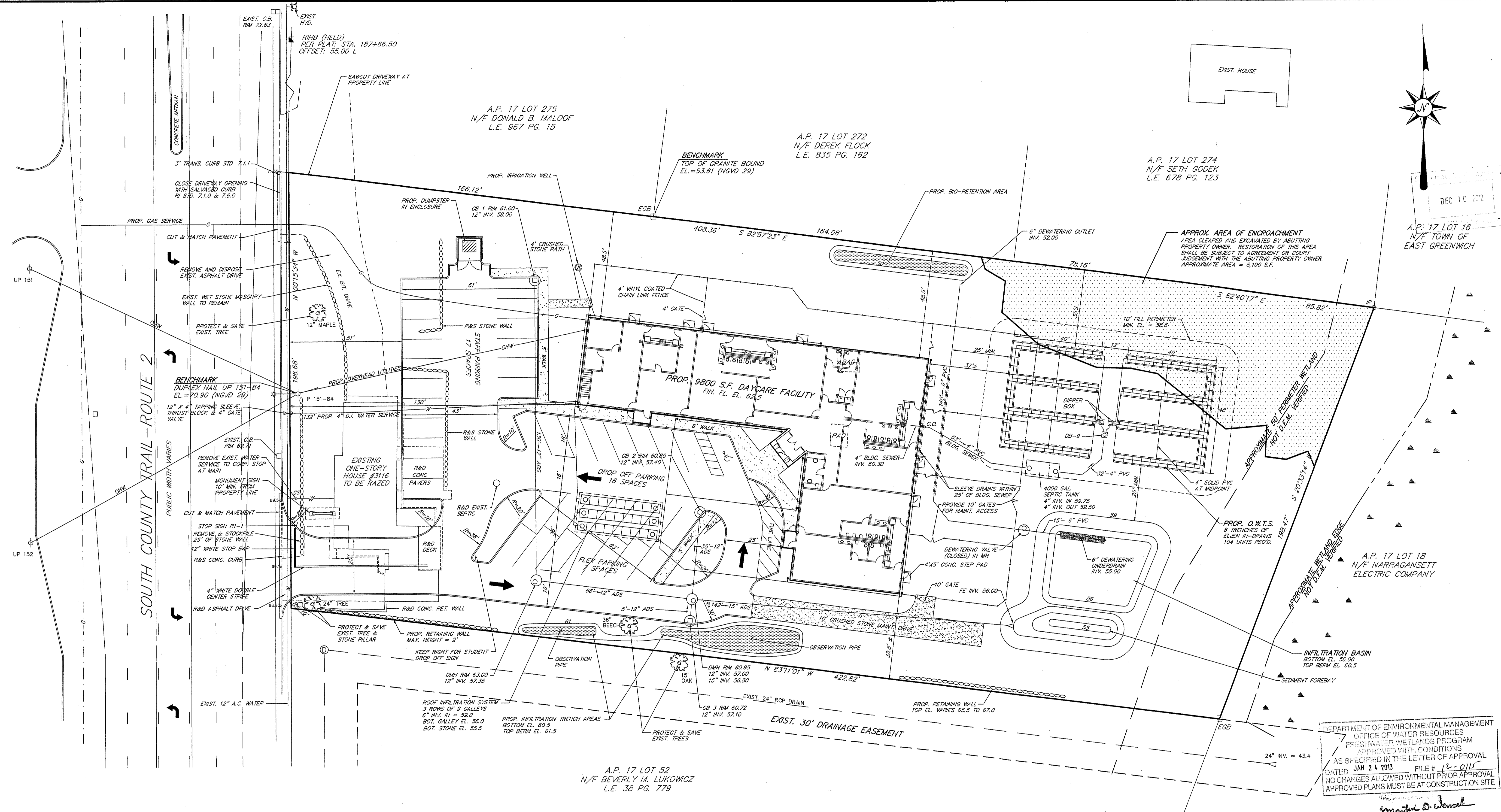
**GRADING & DRAINAGE PLAN**

DWN. BY: LBC      DWS. NO. SFM7780D-A

DATE: NOV. 9, 2012      SCALE: 1" = 20'      SHEET 4 OF 11



DEC 10 2012



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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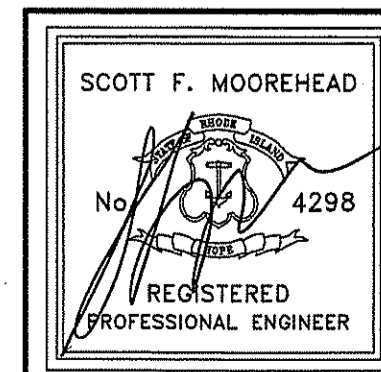
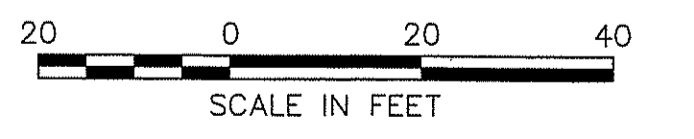
- CABLE, ELECTRIC AND TELEPHONE SERVICES SHALL BE AS PER APPROPRIATE UTILITY AUTHORITY.
- UTILITY SERVICE INSTALLATIONS SHALL BE APPROVED AND INSPECTED BY THE APPROPRIATE UTILITY COMPANY.
- SEE ELECTRICAL & LIGHTING PLANS FOR POWER SERVICE, SITE LIGHTING, TELEPHONE, CABLE AND WIRING DETAILS.
- LOCATION AND SIZE OF ALL BUILDING UTILITY CONNECTIONS SHALL BE COORDINATED WITH THE BUILDING ARCHITECTURAL PLANS.
- ALL PROPOSED WALKS SHALL BE CONCRETE, 4' WIDE (MIN.), WALKS SHALL BE 4.5' WIDE (MIN.) FROM BACK OF CURB UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A UTILITY PERMIT FROM THE R.I.D.O.T. MAINTENANCE SECTION BEFORE UNDERTAKING ANY WORK WITHIN THE STATE R.O.W. FOR UTILITY INSTALLATION.
- ALL WORK WITHIN THE STATE HIGHWAY SHALL CONFORM TO THE REQUIREMENTS OF PAPA No. 120711 AND SHALL CONFORM TO THE R.I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (REVISION OF 12-2010) WITH ALL CORRECTIONS AND ADDENDA AND THE 12-2012 R.I. STANDARD DETAILS WITH ALL CORRECTIONS AND ADDENDA. THE LATEST RIDOT SPECIFICATIONS AND DETAILS ARE AVAILABLE ONLINE AT [WWW.RIDOT.RI.GOV/ENGINEERING/STANDARDS/INDEX.ASP](http://WWW.RIDOT.RI.GOV/ENGINEERING/STANDARDS/INDEX.ASP).

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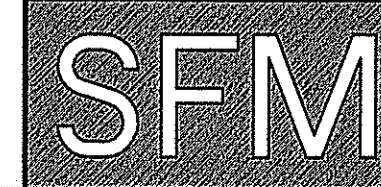
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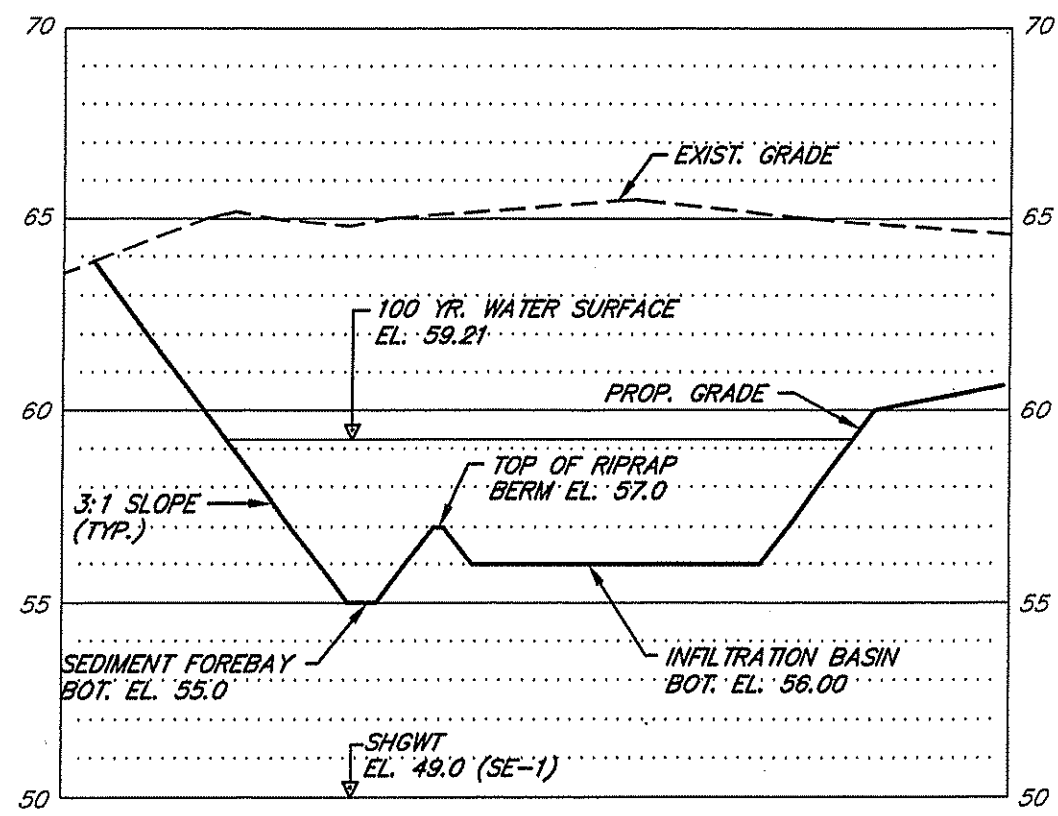
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**SITE LAYOUT & UTILITY PLAN**  
DATE: NOV. 9, 2012 SCALE: 1" = 20' SHEET 3 OF 11



**CROSS SECTION - INFILTRATION BASIN**

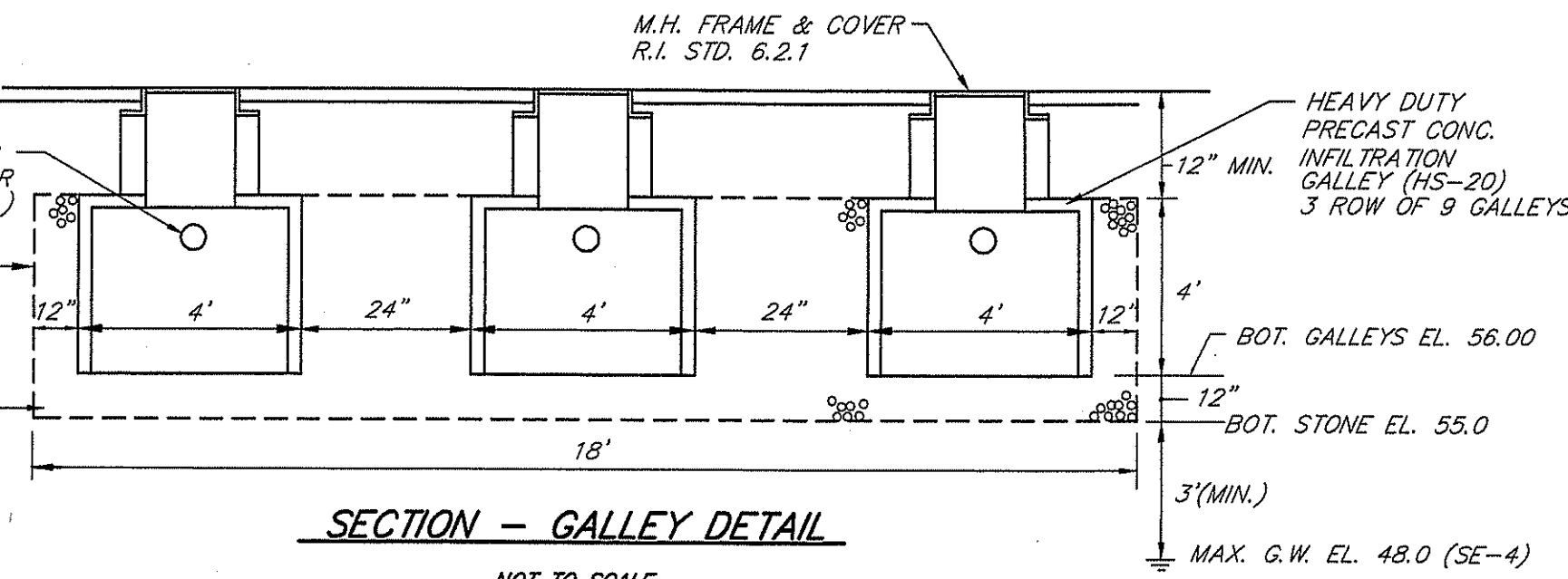
SCALE: HOR. 1" = 20'  
VERT. 1" = 9'

**DETENTION BASIN - DIMENSION TABLE**

BASIN	ELEV. (FT.)	AREA (S.F.)	OUTLET DATA
SED. FOREBAY	55	80	
	56	320	
INF. BASIN	56	1,195	
	57	2,310	
	58	3,005	
	59	3,690	
	60	4,200	

SAND DESIGN  
INFIL. RATE = 8.27 IN/HR

10' GRASS OVERFLOW  
CHANNEL, EL. 59.50



**SECTION - GALLEY DETAIL**

NOT TO SCALE

**INFILTRATION SYSTEM INSTALLATION NOTES**

- THE GALLEY 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.
- FILTER FABRIC LINER SHALL BE MIRAFI 180-N 4 OR AMOCO 4552 OR EQUAL.
- RISERS & COVERS SHALL BE INSTALLED AS SHOWN ON PLANS.
- THE GALLEYS SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF TWICE PER YEAR (SPRING AND FALL) UPON COMPLETION OF CONSTRUCTION. DEBRIS AND SEDIMENTS SHALL BE REMOVED AS NECESSARY AND DISPOSED OF AT A LICENSED FACILITY.
- 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 OUTLINED HEREIN UNTIL FINAL ACCEPTANCE BY THE OWNER.
- UPON FINAL ACCEPTANCE, THE OWNER SHALL BE RESPONSIBLE FOR ALL DRAINAGE INSPECTION AND MAINTENANCE AS OUTLINED HEREIN.
- ANY INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE STORMWATER DISPOSAL SYSTEM REQUIRES IMMEDIATE NOTIFICATION OF THE RIDEM-UC 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 RIDEM WILL REQUIRE THE PROPERTY OWNER TO REMEDIATE ANY INCIDENTS THAT MAY ADVERSELY IMPACT THE QUALITY OF THE GROUNDWATER.

**INFILTRATION SYSTEM 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 GALLEYS 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 BY THE RESPONSIBLE PARTY.

**INFILTRATION BASIN NOTES**

- SLOPES OF BASIN SHALL BE 3:1 (MAX).
- INFILTRATION BASIN SHALL BE CONSTRUCTED AND STABILIZED PRIOR TO OTHER CONSTRUCTION. TEMPORARY DRAINAGE SHALL BE DIVERTED TO INFILTRATION BASIN OR TEMPORARY SEDIMENT BASINS.
- ALL LOAM AND SUBSOIL SHALL BE STRIPPED FROM THE INFILTRATION AREAS AND THE AREA EXCAVATED TO THE GRAVELLY SUBSTRATE SOILS AT LEAST 12" BELOW THE FINISH BOTTOM GRADE. COARSE SAND SHALL BE PLACED AS REQUIRED TO BRING THE SUBGRADE TO 6" BELOW FINISH BOTTOM GRADE.
- INFILTRATION BASIN SUBGRADE MUST BE INSPECTED AND APPROVED BY SFM ENGINEERING ASSOC. PRIOR TO THE PLACEMENT OF THE TOP SOIL.
- THE GRAVEL SUBGRADE SHALL BE COVERED WITH A 6" LAYER OF SOIL WITH A SANDY LOAM TO LOAMY SAND TEXTURE, LEVELED, HARROWED AND IMMEDIATELY SEEDING WITH CONSERVATION GRASS SEED MIX. SANDY LOAM SAMPLES SHALL BE SUBMITTED TO SFM ENGINEERING FOR APPROVAL PRIOR TO PLACEMENT.
- ONLY LIGHT EARTH MOVING EQUIPMENT ON TRACKS SHALL BE USED TO INSURE THAT THE BASIN BOTTOM IS NOT OVERLY COMPACTED.
- ALL SLOPE AND BERM AREAS NOT RIP RAPPED SHALL HAVE A MINIMUM OF 6" SANDY LOAM, CONSERVATION GRASS SEED MIX AND STRAW MULCH OR BIO-DEGRADABLE EROSION CONTROL BLANKET.
- THE CONTRACTOR SHALL MAINTAIN ADEQUATE EROSION AND SEDIMENT CONTROLS AT ALL TIMES TO INSURE NO SILTS ARE DEPOSITED IN THE INFILTRATION. THE INFILTRATION BASIN SHALL BE MAINTAINED IN ACCORDANCE WITH THE INFILTRATION BASIN MAINTENANCE PLAN.
- INLETS AND OUTLETS TO BASIN SHALL BE PROTECTED WITH HAY BALE EROSION CHECKS.
- ACCUMULATED SILTS AND SEDIMENTS SHALL BE REMOVED IMMEDIATELY FROM THE BASIN AS REQUIRED DURING SITE CONSTRUCTION, AFTER EVERY RAIN EVENT AND IMMEDIATELY PRIOR TO LOAMING AND SEEDING.
- SHOULD THE INFILTRATION CAPACITY DECREASE OVER TIME SUCH THAT STANDING WATER REMAINS FOR MORE THAN 72 HOURS AFTER A RAINFALL EVENT, REMEDIATION SHALL BE REQUIRED. REMEDIATION SHALL INCLUDE AT A MINIMUM HARROWING AND RESEEDING OF THE BASIN BOTTOM. AFTER REMEDIATION A QUALIFIED TESTING LABORATORY SHALL PERFORM INFILTRATION TESTS TO INSURE DESIGN INFILTRATION RATES ARE RESTORED.

**INFILTRATION BASIN MAINTENANCE PLAN**

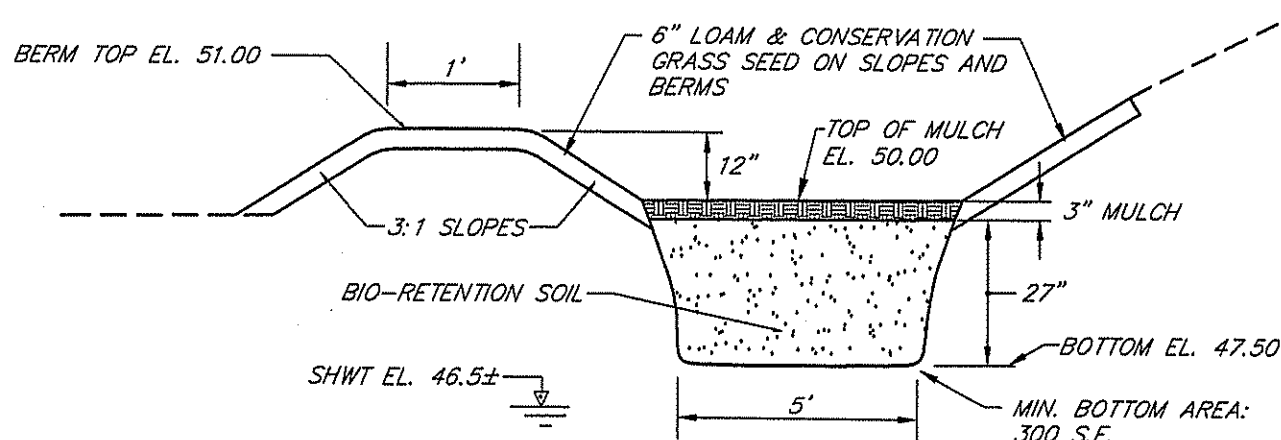
- THE INFILTRATION BASIN SHALL BE MAINTAINED ACCORDING TO THE FOLLOWING SCHEDULE:
- THE GRASS ON THE BASIN (BOTTOM & SLOPES) SHALL BE MOWED THREE (3) TIMES BETWEEN THE MONTHS OF MAY AND OCTOBER. MOWED HEIGHT OF VEGETATION SHALL NOT BE LESS THAN TWO INCHES.
  - THE INLET & OUTLET STRUCTURES TO THE BASIN 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 SEDIMENT FOREBAY AND 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.
  - BASIN SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL APPROVAL OF CONSTRUCTION.
  - AFTER FINAL APPROVAL, THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE. OWNER SHALL SUBMIT YEARLY REPORT TO TOWN BY NOVEMBER EACH YEAR.

**DRAINAGE NOTES**

- CATCH BASINS SHALL BE 5' I.D. OIL SEPARATOR PRECAST CONC. WITH 4" SUMP R.I. STD. 4.4.0 TYPE "F".
- CATCH BASIN FRAMES & GRATES SHALL BE R.I. STD. 6.3.2. FRAME & GRATES SHALL BE SET 1/2" 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.
- ON-SITE DRAINAGE PIPING SHALL BE HDPE ADS-N12 (OR EQUAL) UNLESS OTHERWISE SPECIFIED.
- 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 PROPERTY OWNER SHALL BE RESPONSIBLE FOR ALL DRAINAGE INSPECTION & MAINTENANCE ITEMS OF THE INFILTRATION BASIN, OUTLET STRUCTURES, C.B.'S & M.H.'S.
- ALL DRAINAGE INLETS AND OUTLETS SHALL HAVE STAKED HAYBALE EROSION CHECKS WHICH SHALL BE MAINTAINED UNTIL THE SITE IS FULLY STABILIZED.

**BIO-RETENTION AREA NOTES**

- ALL LOAM & SUBSOIL SHALL BE STRIPPED AND THE AREA EXCAVATED TO DESIGN BOTTOM GRADE. BIO-RETENTION SOIL SHALL BE PLACED TO A DEPTH OF 24" AND COVERED WITH 2" OF MULCH.
- MULCH SHALL BE SHREDED HARDWOOD MULCH.
- PLANTINGS SHALL BE SELECTED BY A LANDSCAPE ARCHITECT TO COMPLY WITH APPENDIX B.9.3 OF THE R.I. STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL (DECEMBER 2010).
- BIO-RETENTION AREA PLANTINGS SHALL BE INSTALLED BY A LANDSCAPE CONTRACTOR. SURVIVAL SHALL BE GUARANTEED FOR ONE YEAR.
- BIO-RETENTION SOIL SHALL HAVE A LOAMY SAND TEXTURE AND CONFORM TO THE FOLLOWING GRADATION:  
SAND 85 - 88%  
SILT 8 - 12%  
CLAY 0 - 2%  
ORGANIC MATTER 3 - 5%

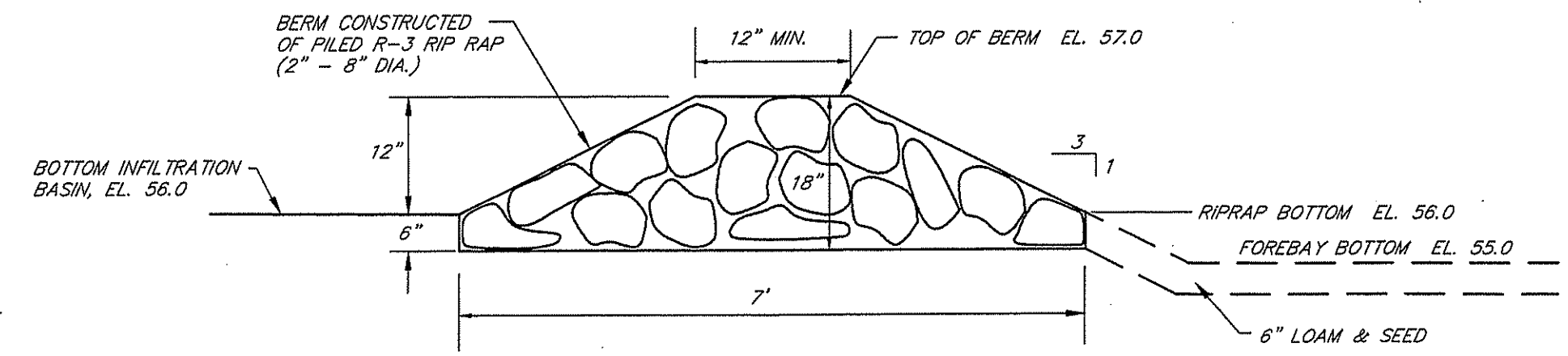


**BIO-RETENTION AREA CROSS-SECTION**

NOT TO SCALE

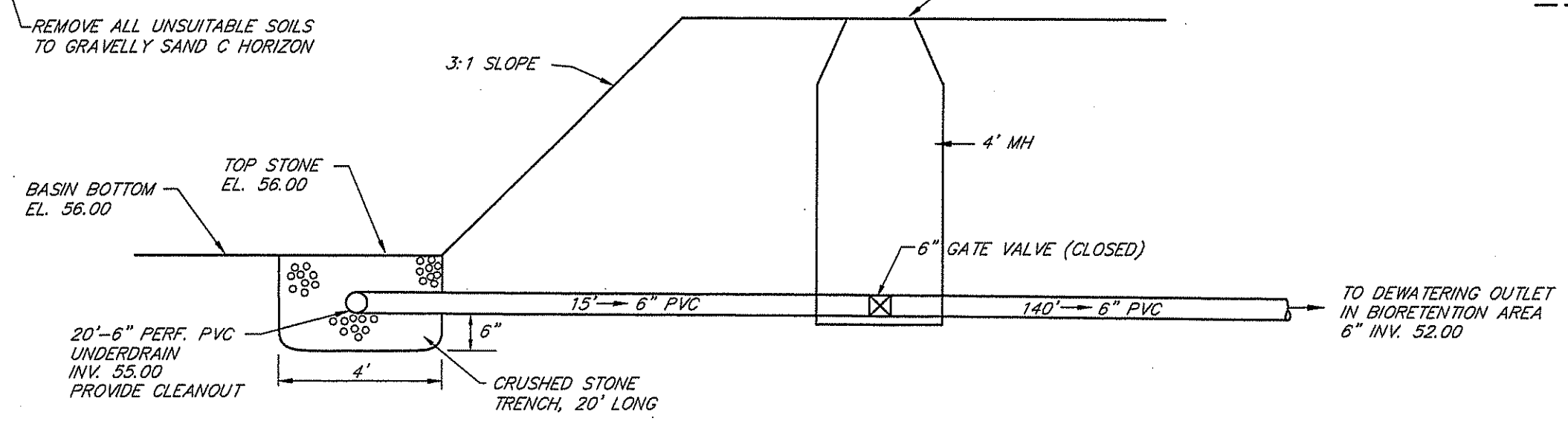
**BIO-RETENTION AREA MAINTENANCE PLAN**

- BIO-RETENTION AREA SHALL BE MAINTAINED BY THE PROPERTY OWNER.
- BIO-RETENTION AREA SHALL BE INSPECTED TWICE PER YEAR.
- SOIL EROSION GULLIES SHALL BE REPAIRED WHEN THEY OCCUR.
- IF STANDING WATER REMAINS 48 HOURS AFTER A RAINFALL EVENT, THE BOTTOM SHALL BE ROTO-TILLED THEN RE-SEEDED.
- MULCH LAYER SHALL BE REPLENISHED TO ORIGINAL DEPTH EVERY OTHER YEAR. PREVIOUS MULCH LAYER SHALL BE REMOVED.
- PRUNING OR REPLACEMENT OF VEGETATION SHOULD OCCUR WHEN DEAD OR DYING VEGETATION IS OBSERVED.



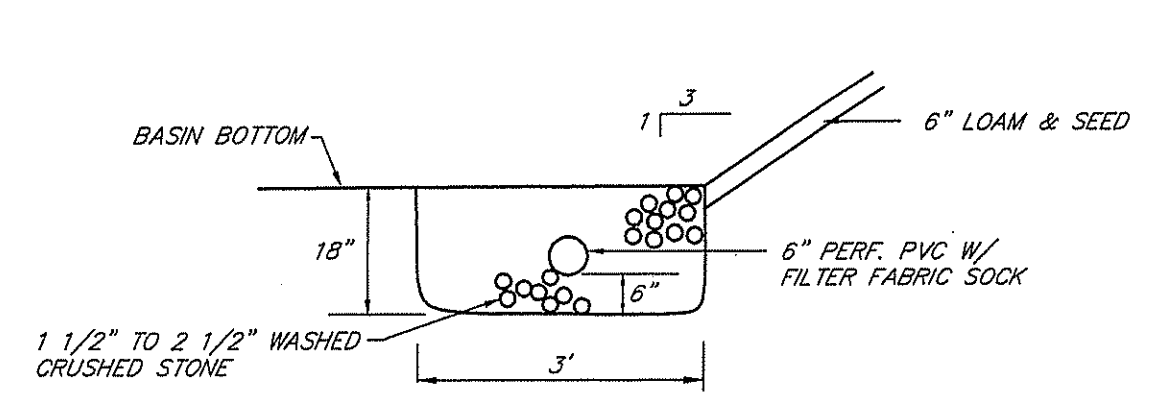
**SEDIMENT FOREBAY RIP RAP BERM**

NOT TO SCALE



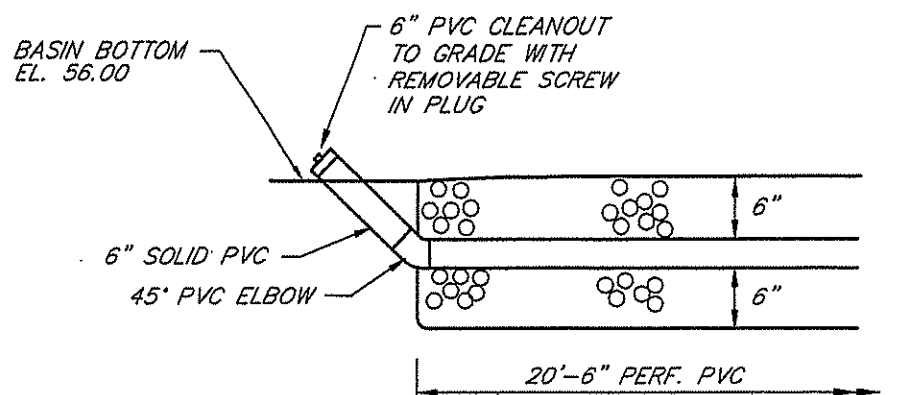
**INFILTRATION BASIN DEWATERING UNDERDRAIN DETAIL**

NOT TO SCALE



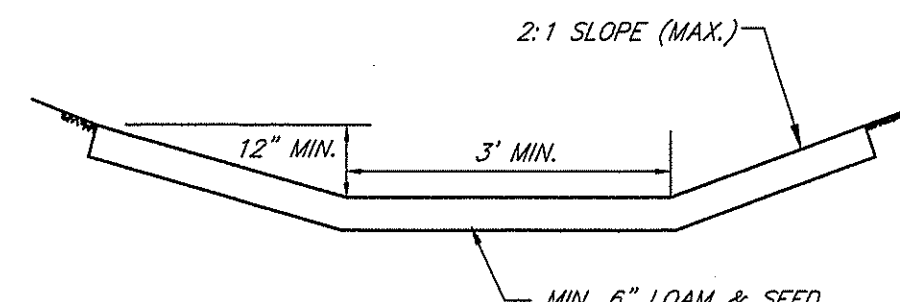
**UNDERDRAIN TRENCH**

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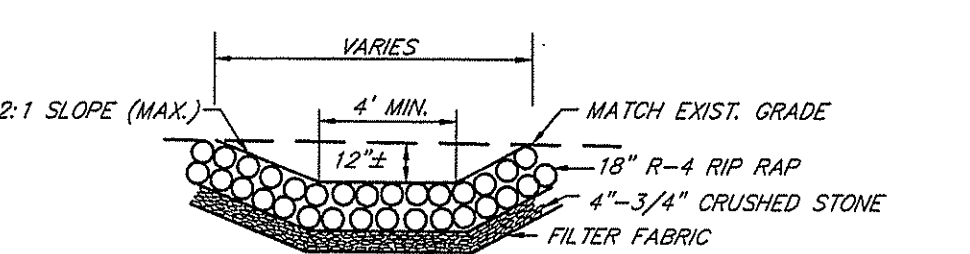
**CLEAN-OUT DETAIL**

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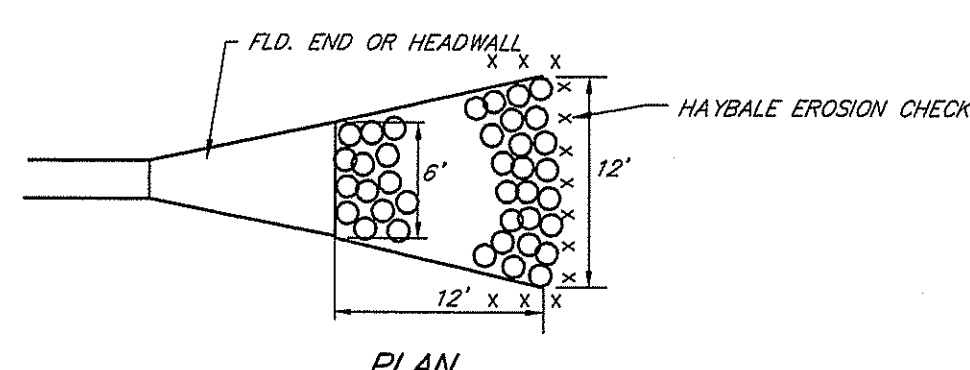
**GRASS SWALE DETAIL**

NOT TO SCALE



**SECTION**

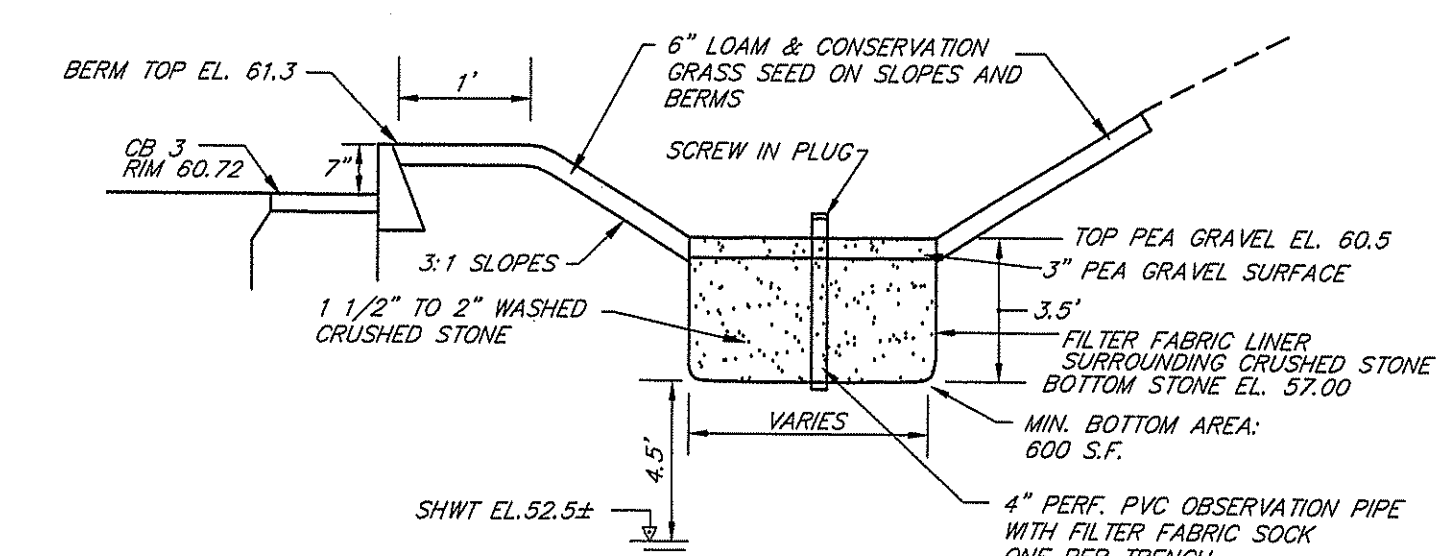
NOTE:  
RIP RAP SWALES SHALL BE 6" WIDE AT FLRD. END AND WIDEN TO 12", LENGTH = 12'



**PLAN**

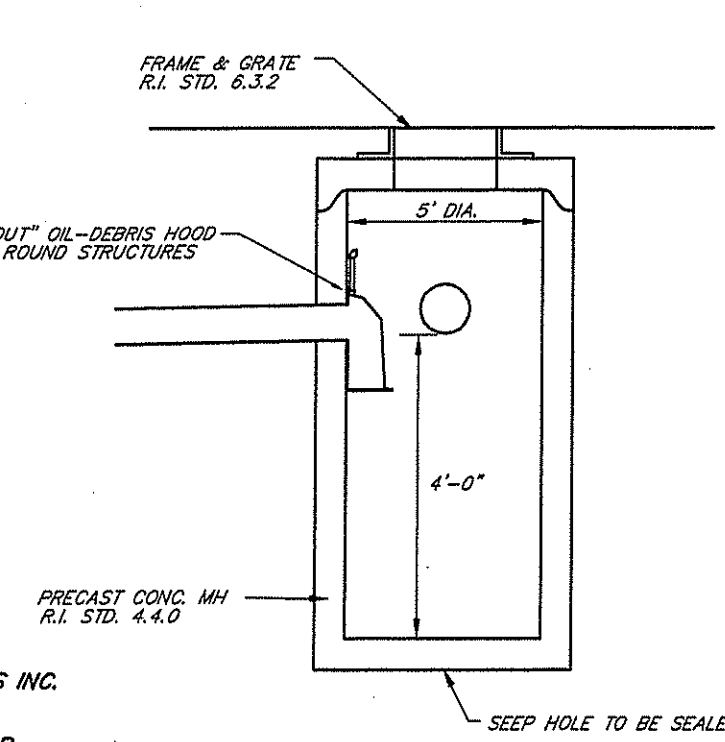
**RIP RAP @ FLARED END**

NOT TO SCALE



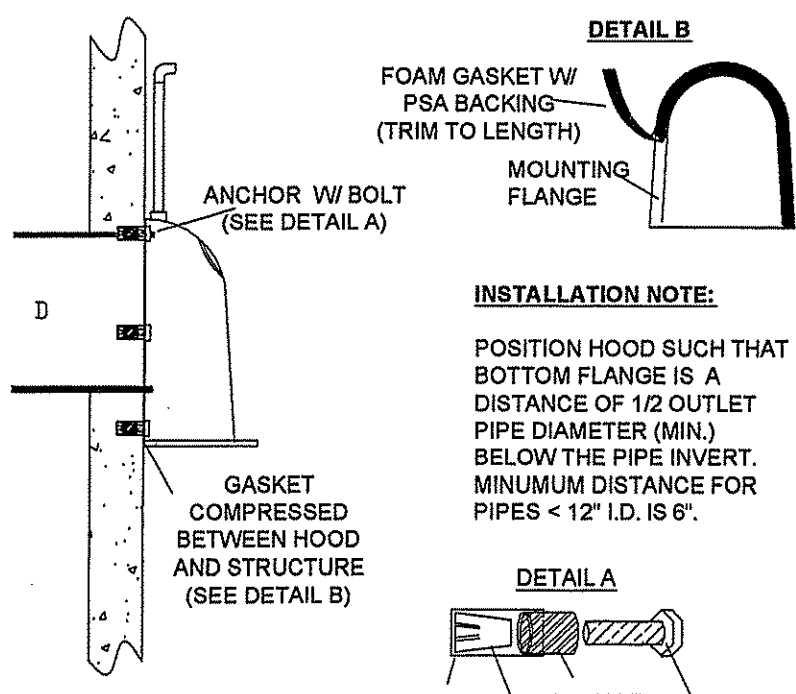
**CRUSHED STONE TRENCH DETAIL**

NOT TO SCALE



**OIL SEPARATOR CATCH BASIN DETAIL**

NOT TO SCALE



**SNOUT INSTALLATION DETAIL**

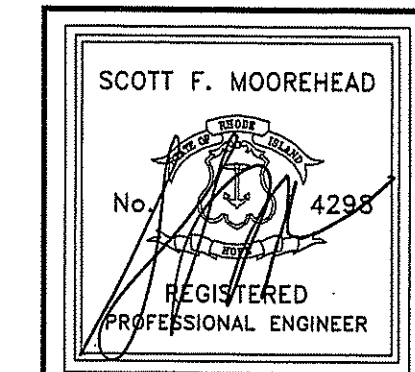
NOT TO SCALE

- NOTES:
- SNOUT HOOD BY: BEST MANAGEMENT PRODUCTS INC. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
  - MINIMIZE SIZE HOOD IS SIZE 18R FOR A 5" DIA C.B.

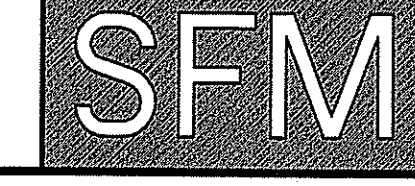
CONTACT: BEST MANAGEMENT PRODUCTS INC.  
53 MT. ARCHER RD.  
LYME, CT. 06371  
TOLL FREE: (800) 504-8008

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED JAN 24 2013 FILE # 12-0115  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Signature*



DATE	REVISION
12-29-12	NOTES



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

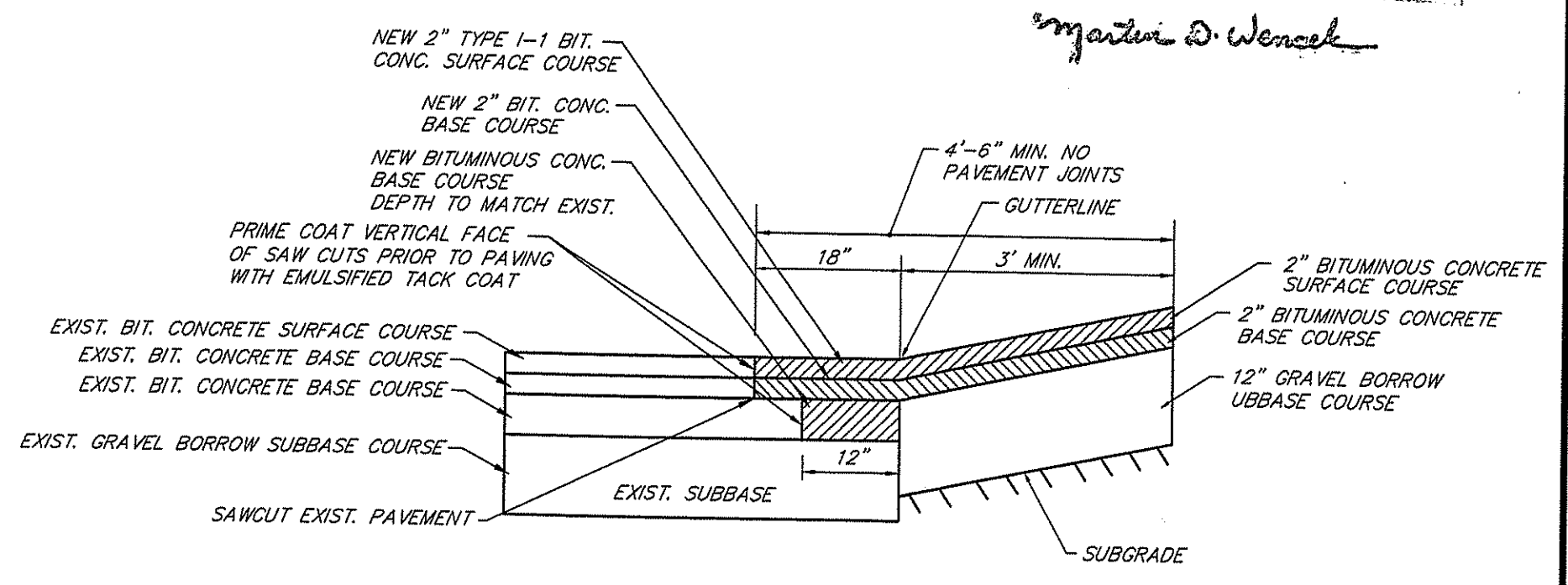
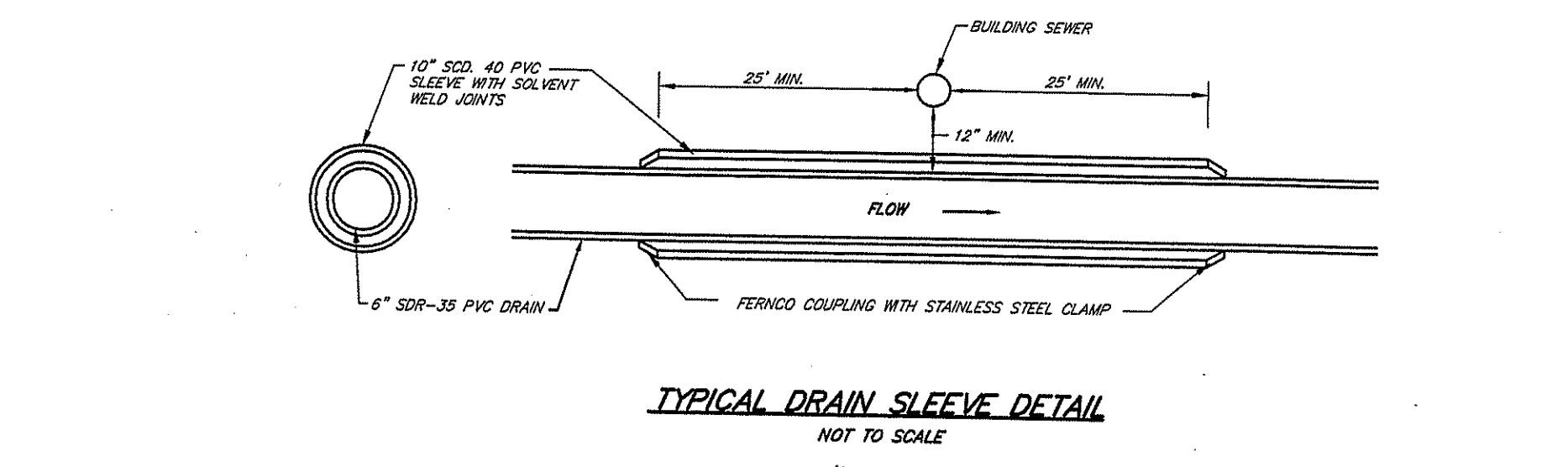
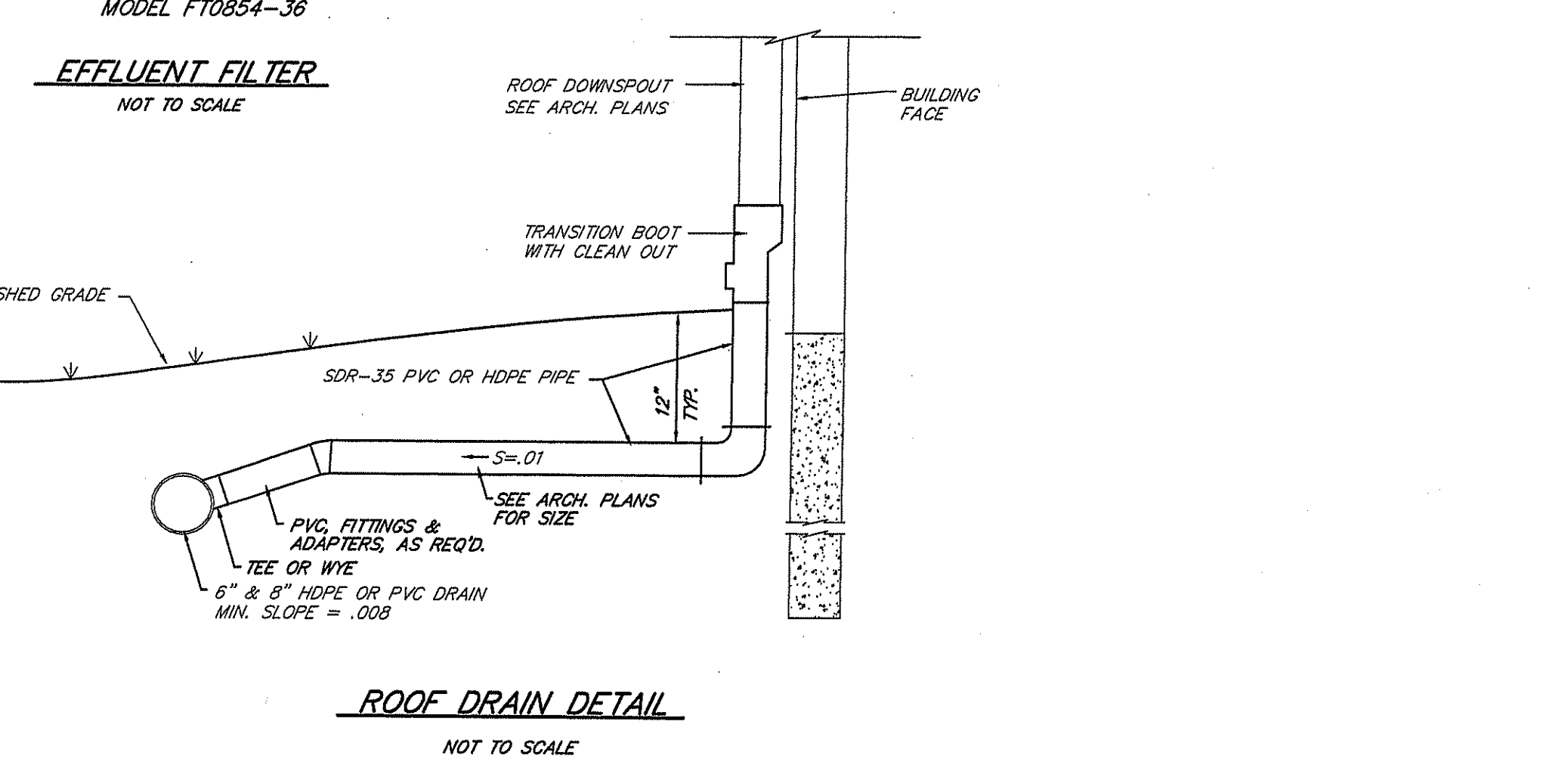
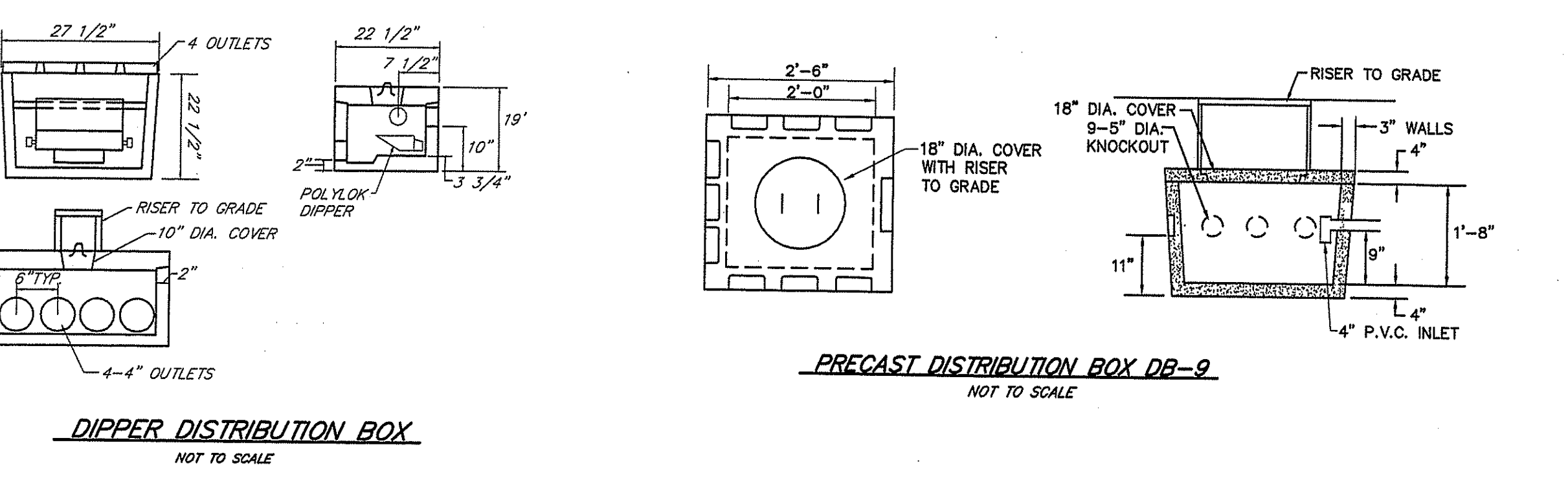
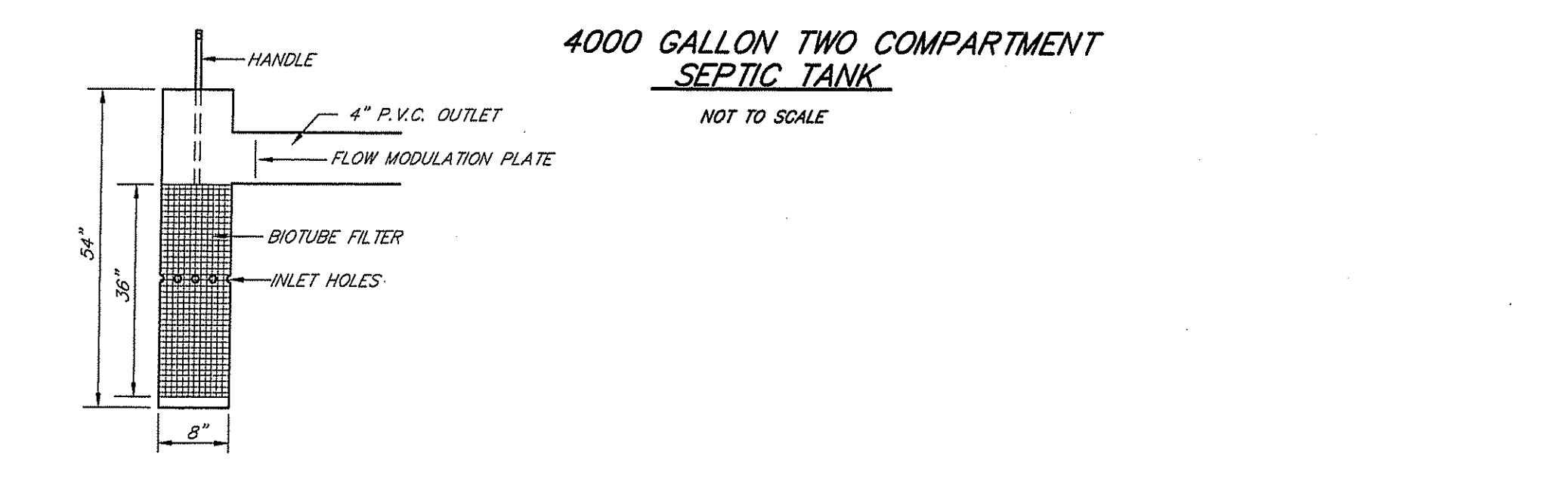
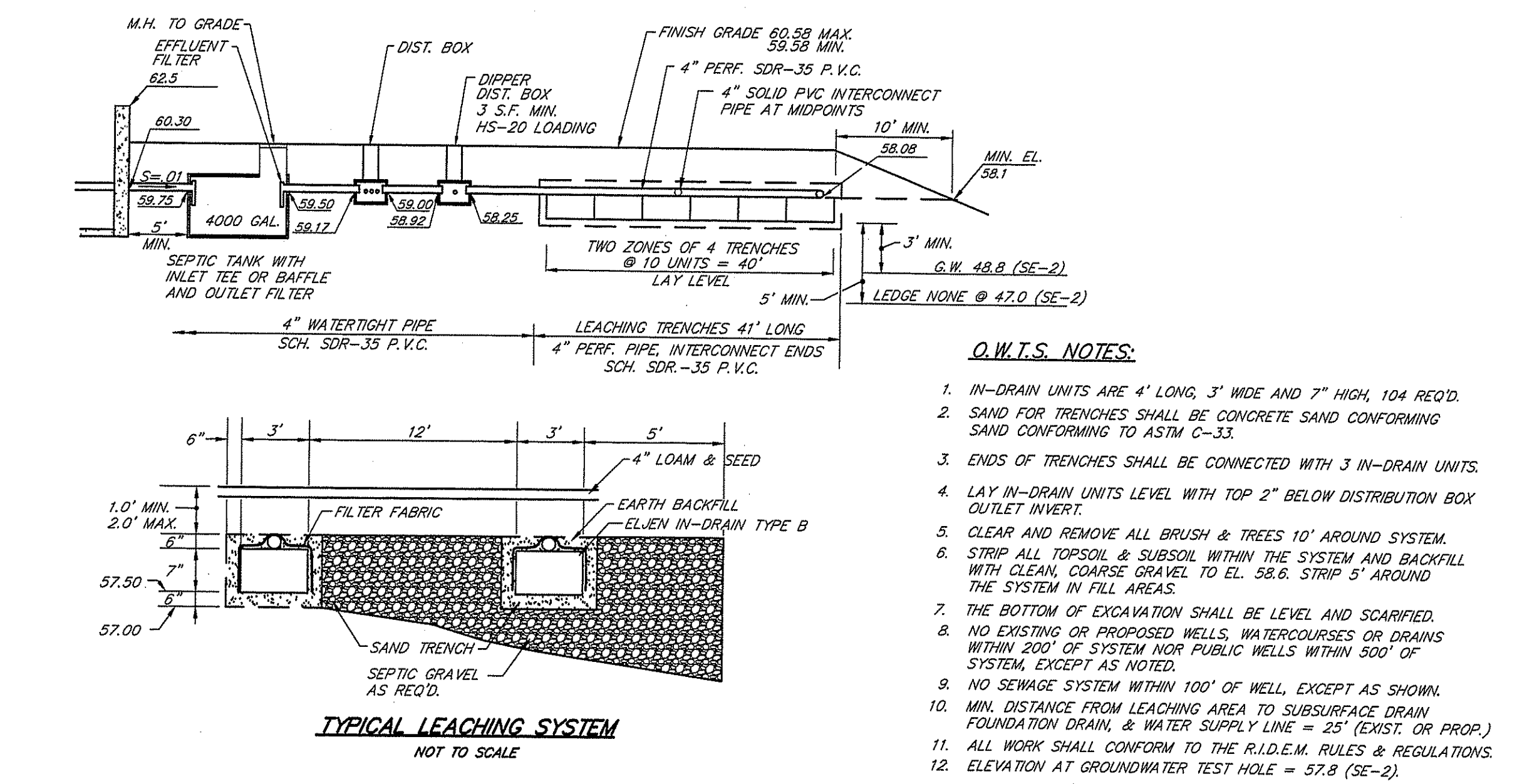
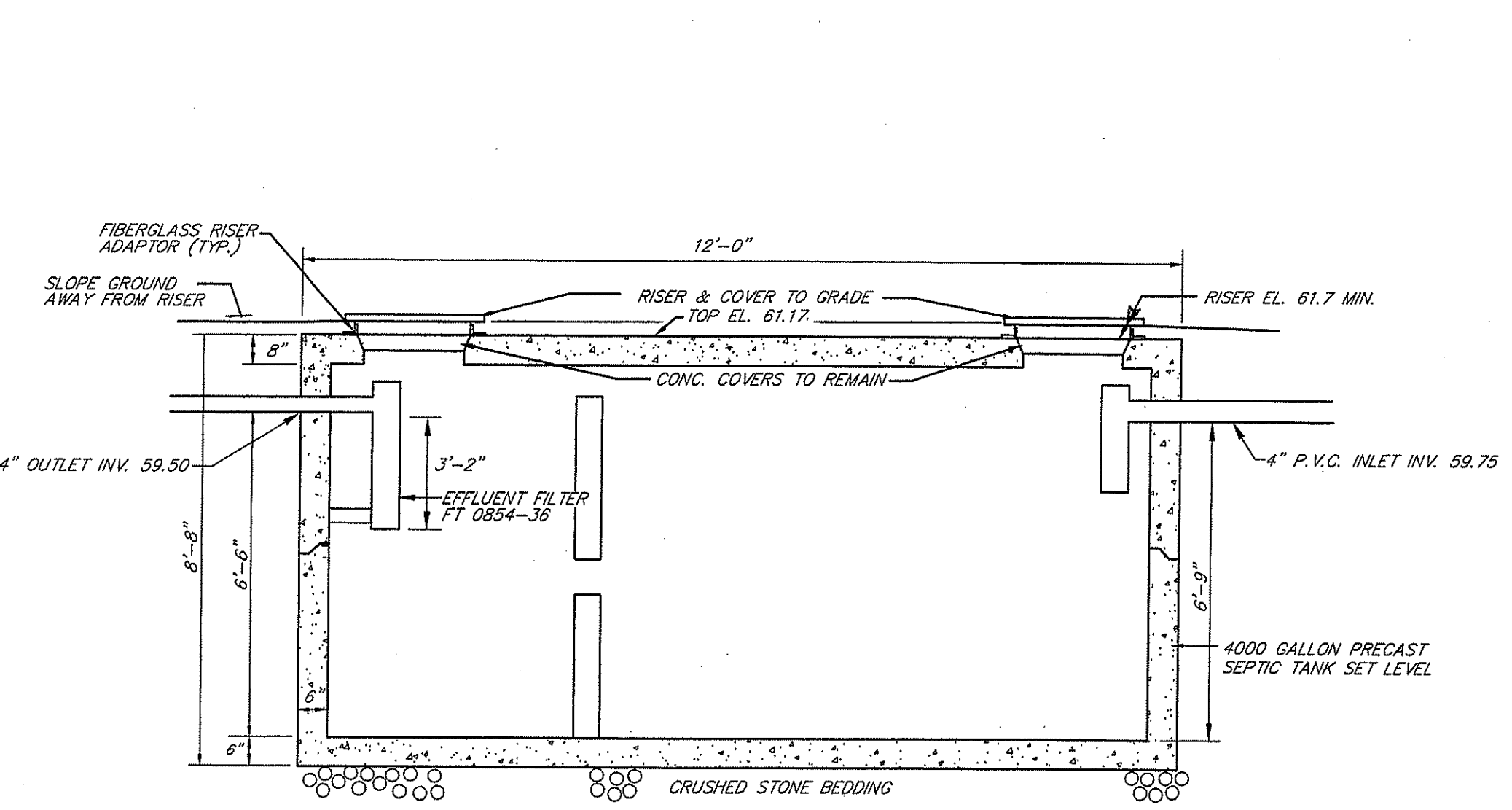
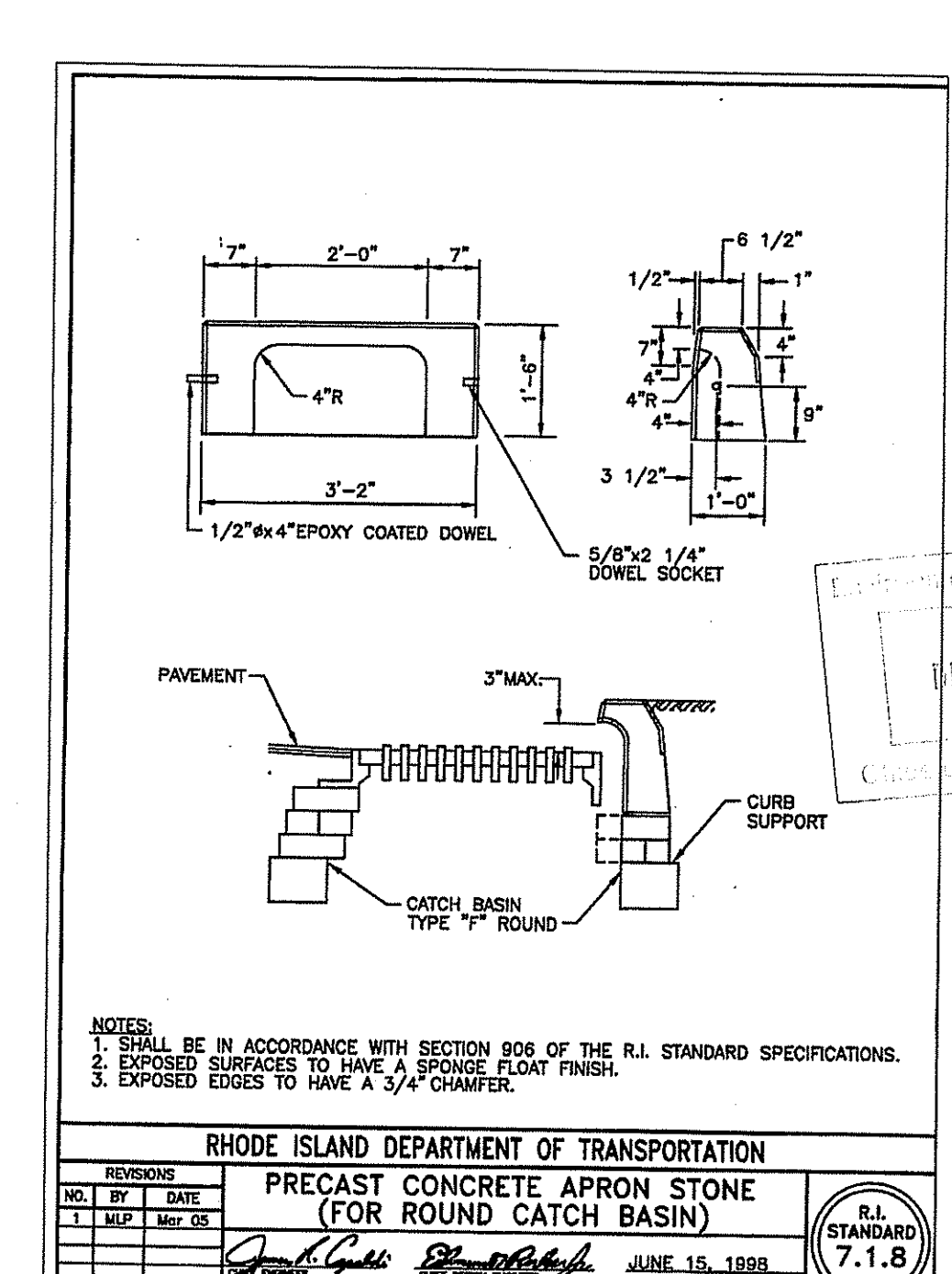
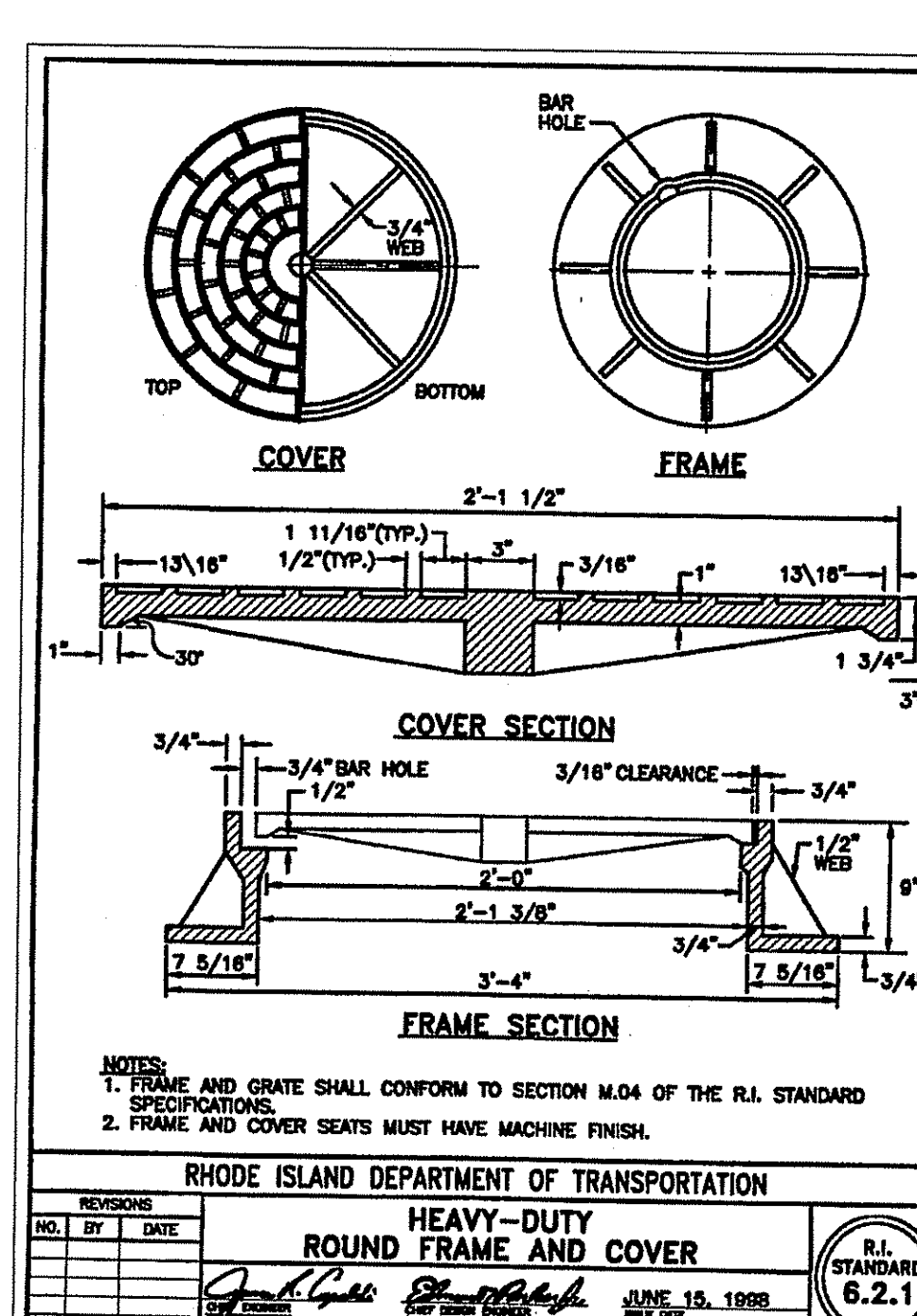
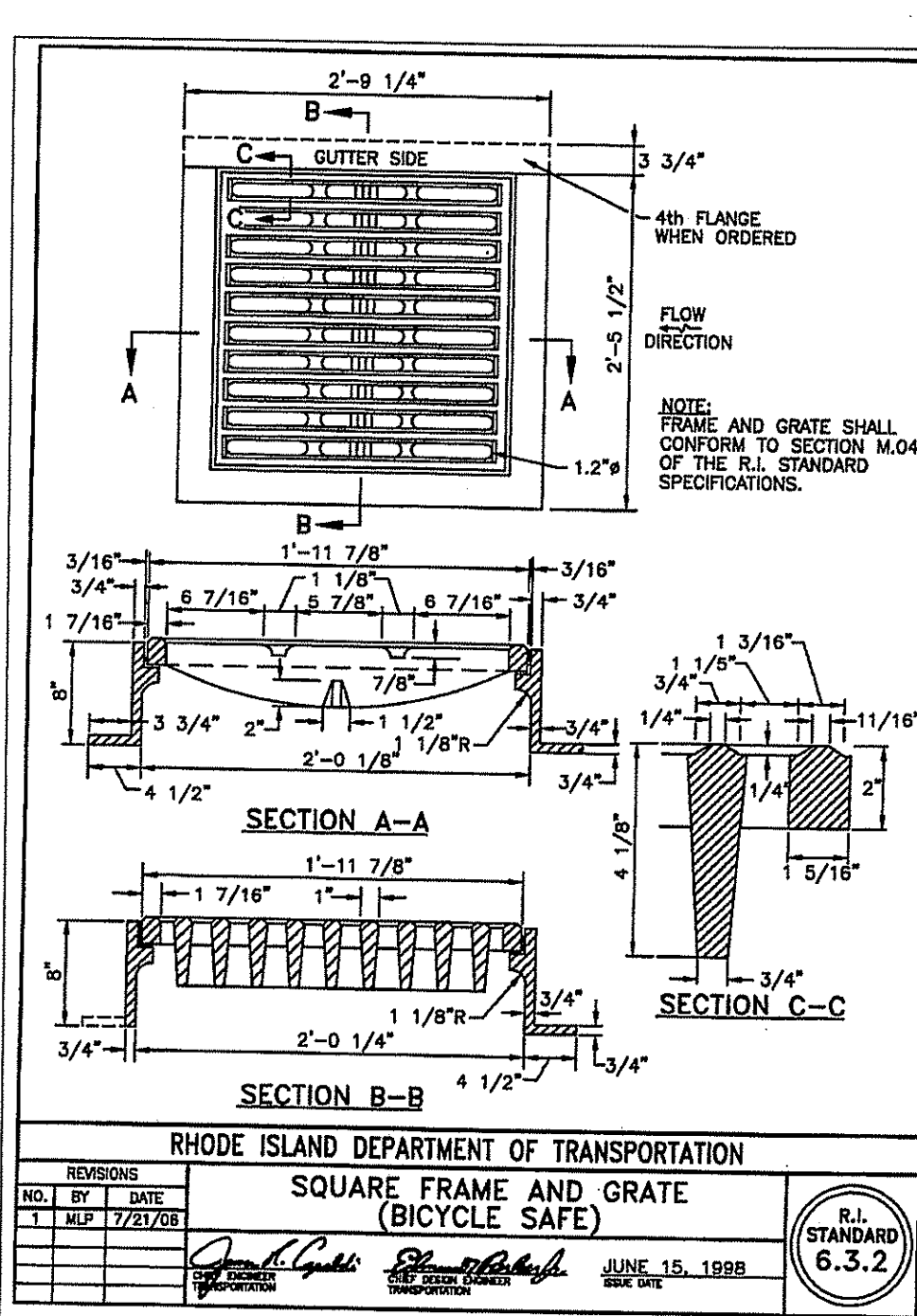
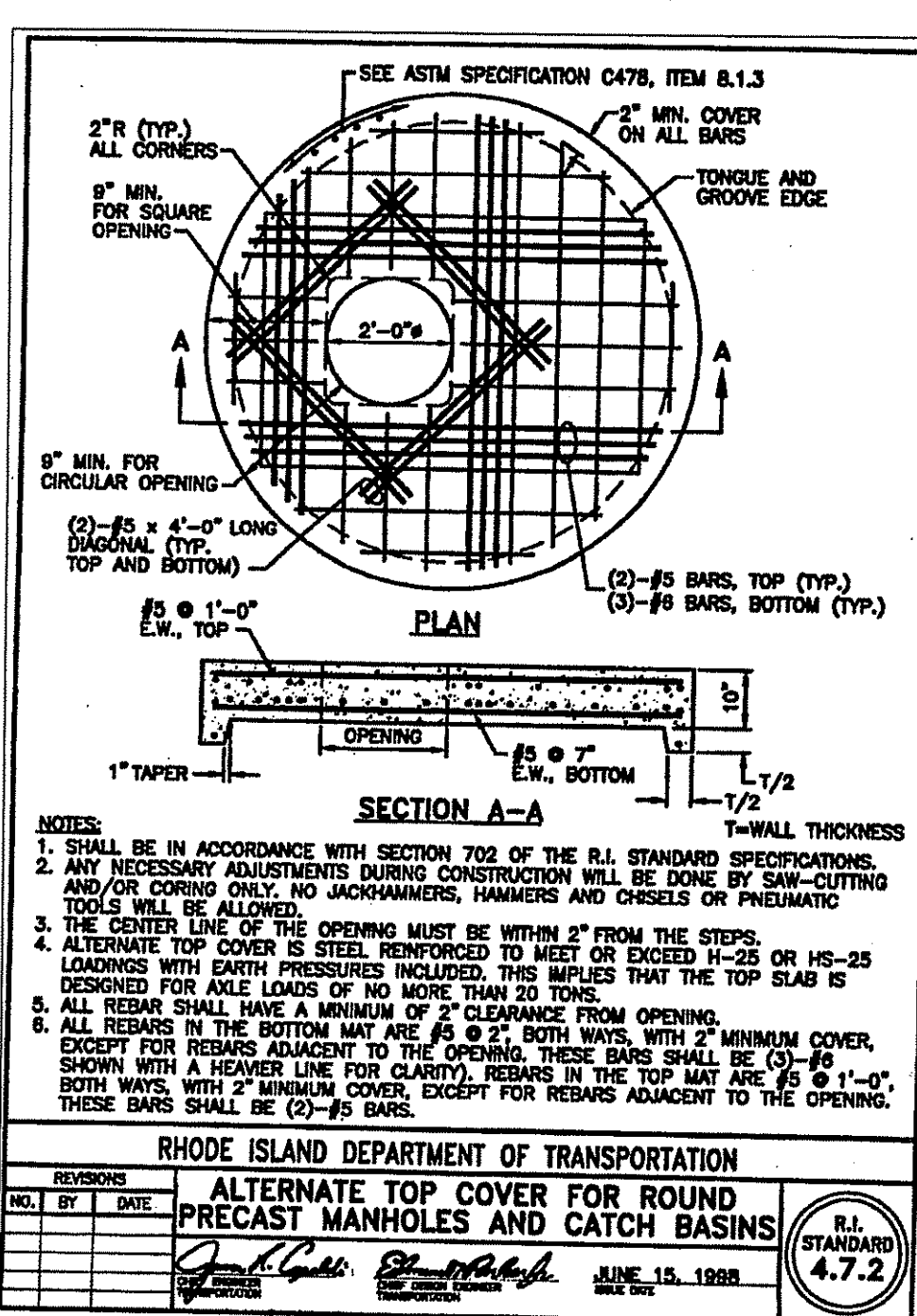
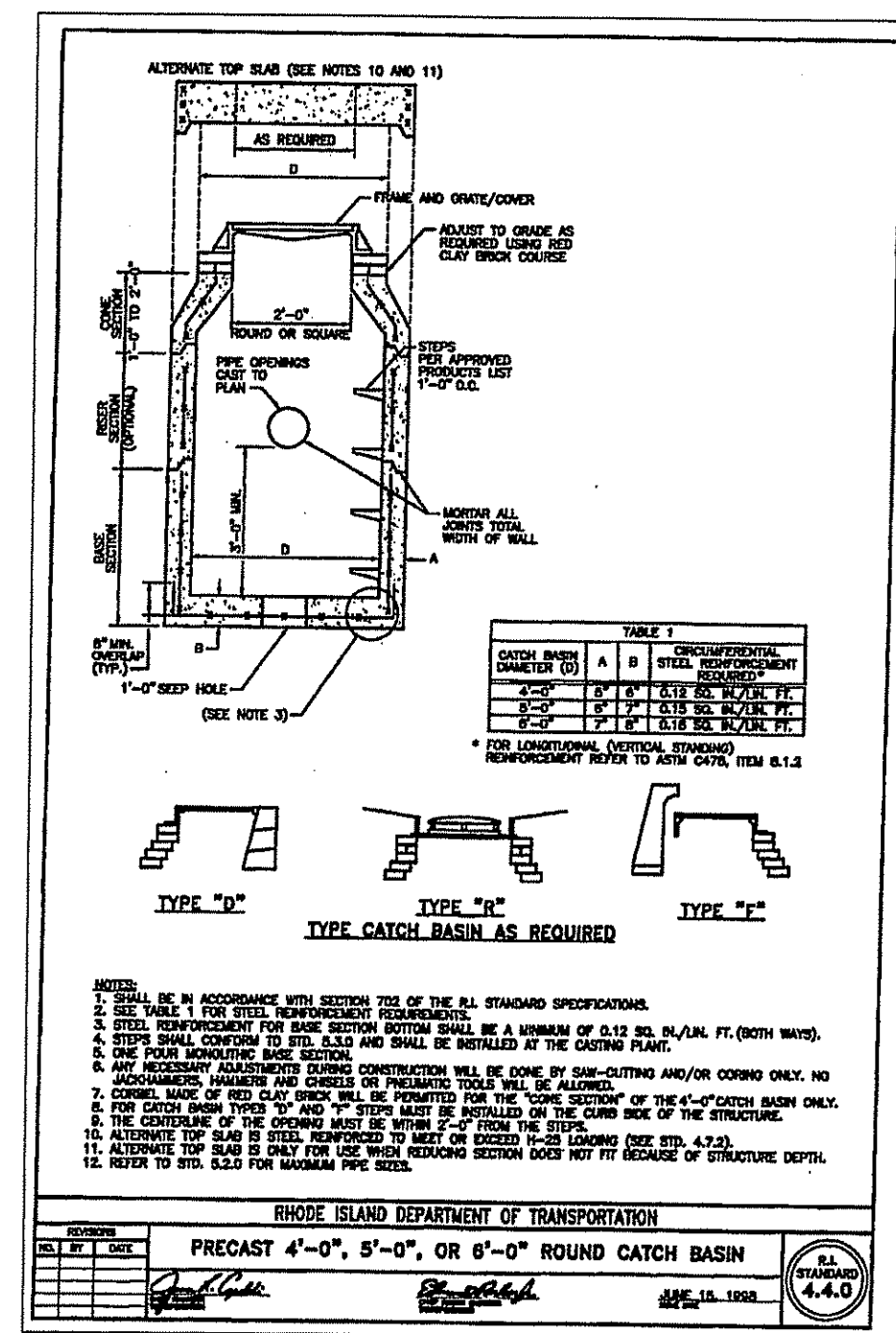
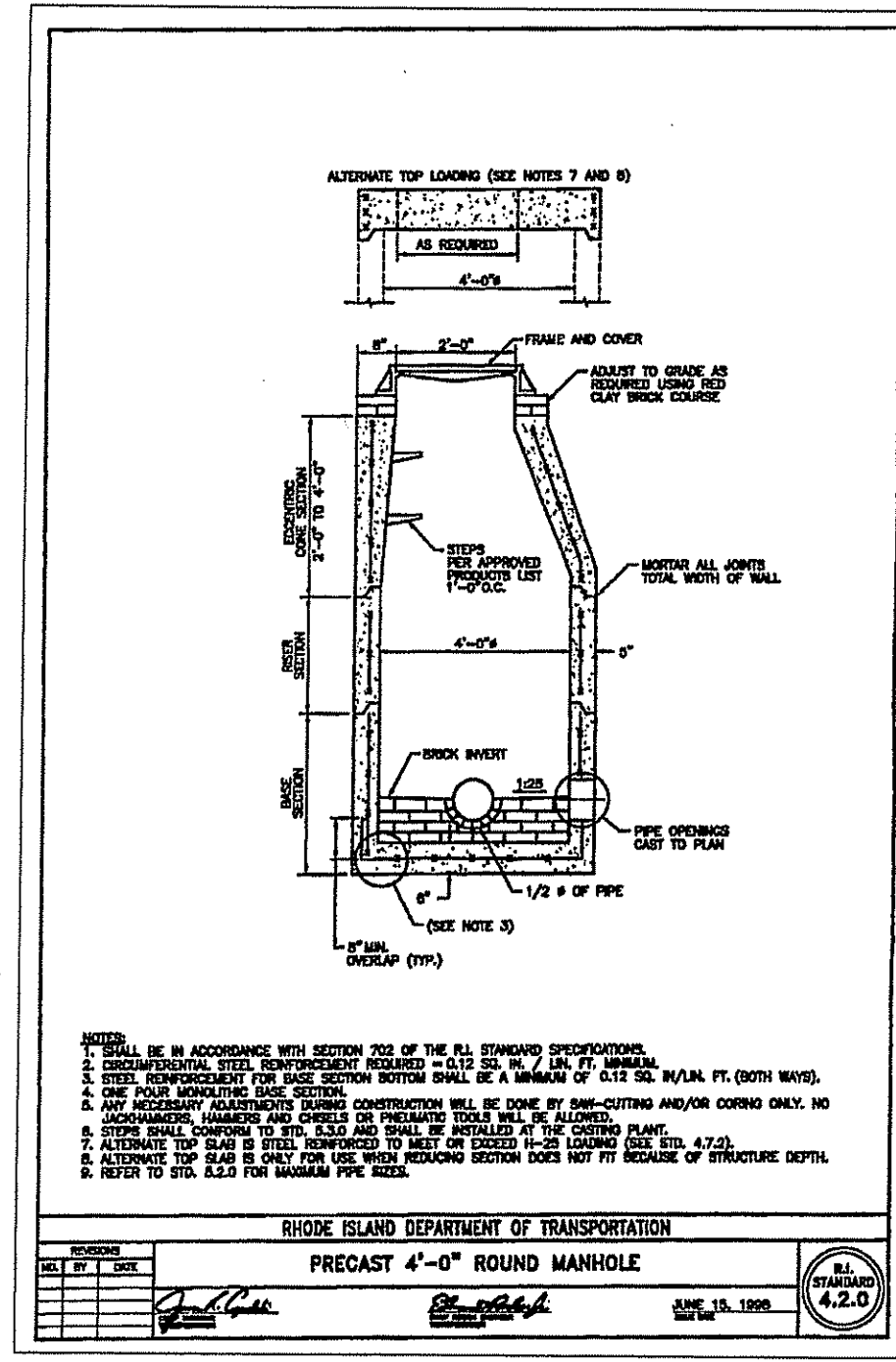
**THE STORK'S NEST CHILD ACADEMY**

3116 SOUTH COUNTY TRAIL  
MAP 17 A.P. 17 LOT 53  
EAST GREENWICH, RI

PREPARED FOR:  
STORK'S NEST CHILD ACADEMY, INC.  
1100 TOLLGATE ROAD  
WARWICK, RI 02886

**CONSTRUCTION DETAILS-1**

DATE: NOV. 9, 2012 SCALE: AS NOTED SHEET 5 OF 11

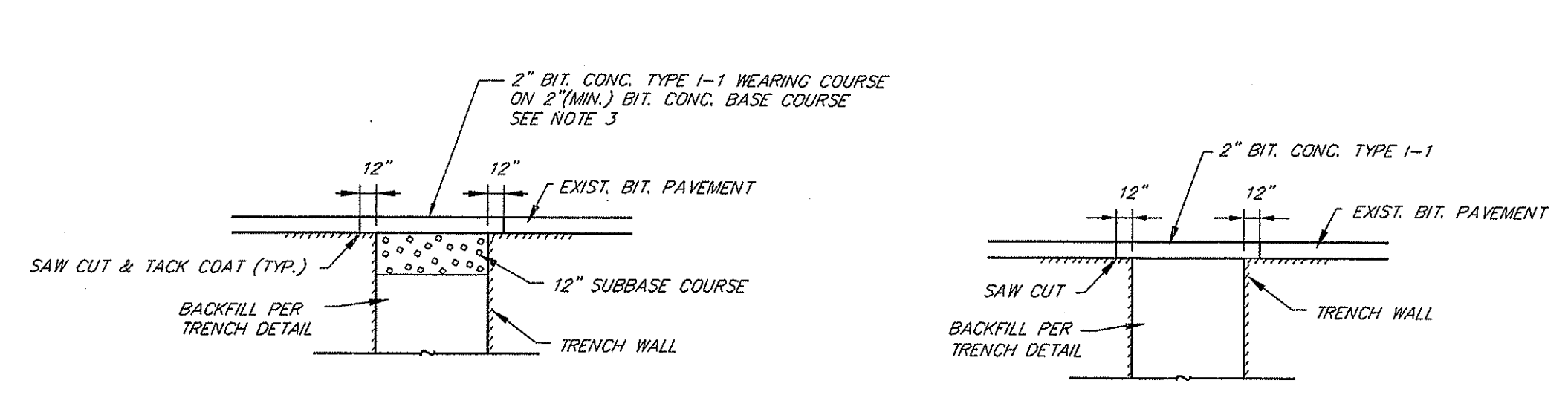
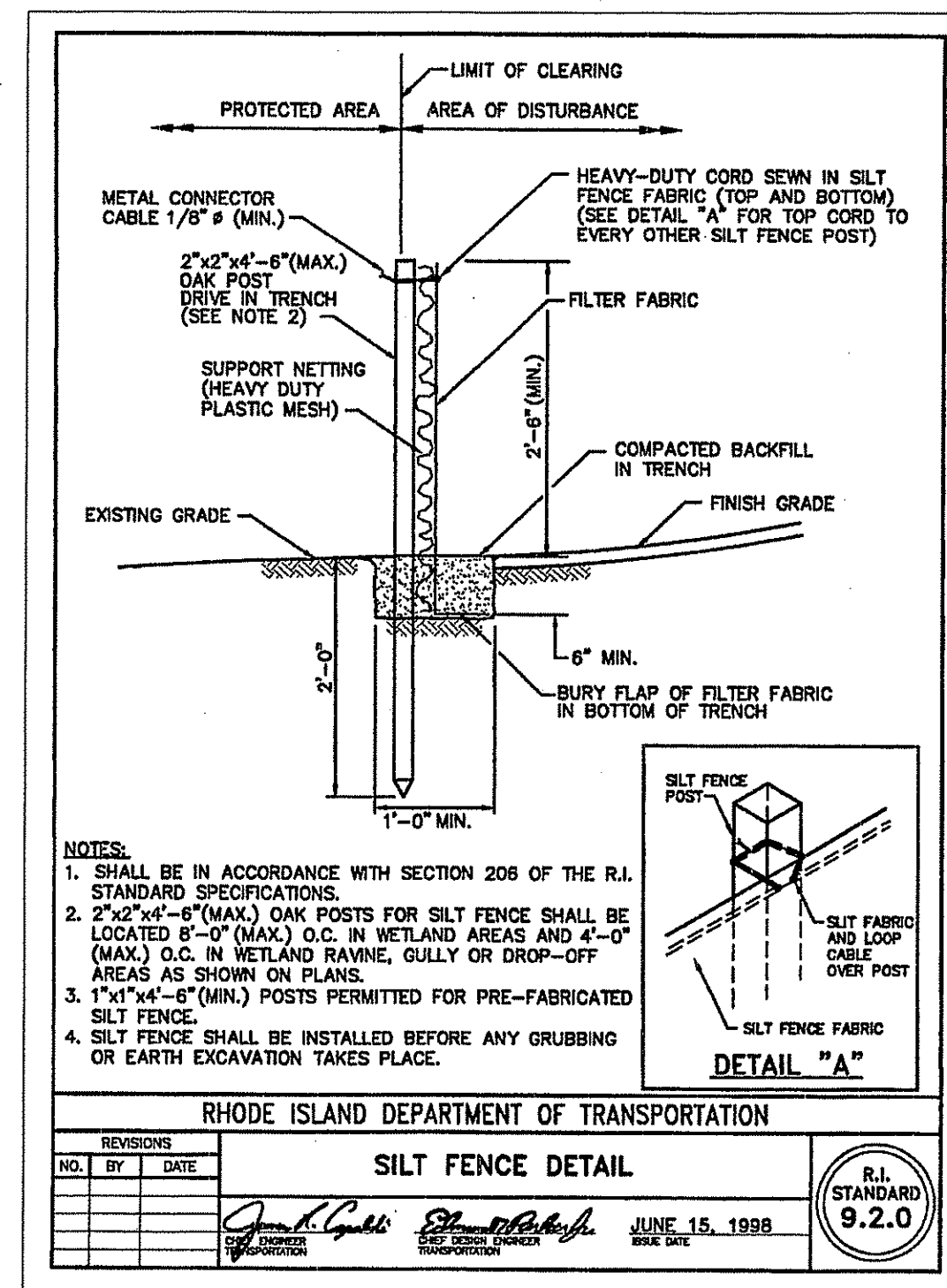
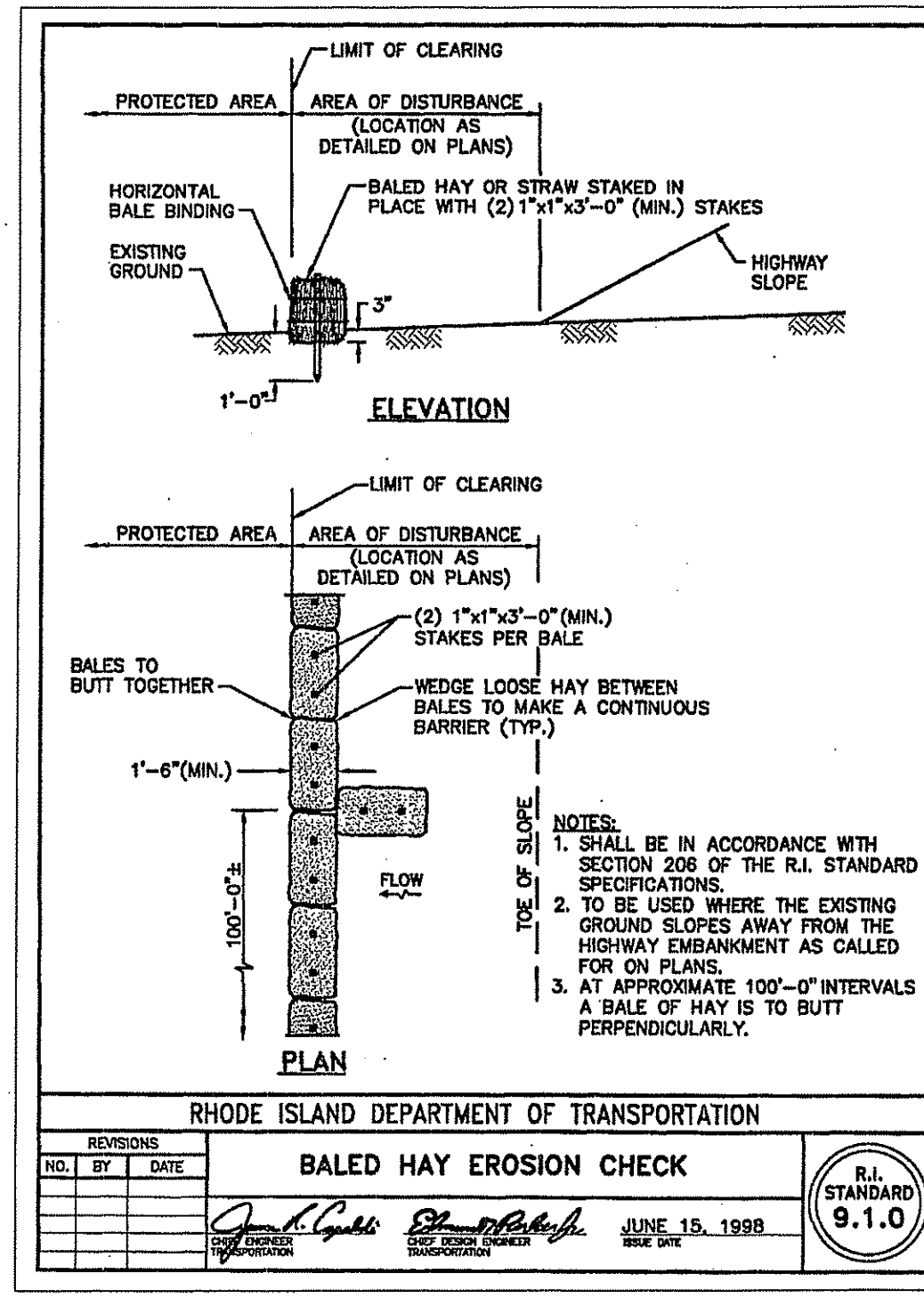


- O.W.T.S. NOTES:**
1. IN-DRAIN UNITS ARE 4' LONG, 3' WIDE AND 7" HIGH, 104 REQ'D.
  2. SAND FOR TRENCHES SHALL BE CONCRETE SAND CONFORMING TO ASTM C-33.
  3. ENDS OF TRENCHES SHALL BE CONNECTED WITH 3 IN-DRAIN UNITS.
  4. LAY IN-DRAIN UNITS LEVEL WITH TOP 2" BELOW DISTRIBUTION BOX OUTLET INVERT.
  5. CLEAR AND REMOVE ALL BRUSH & TREES 10' AROUND SYSTEM.
  6. STRIP ALL TOPSOIL & SUBSOIL WITHIN THE SYSTEM AND BACKFILL WITH CLEAN, COARSE GRAVEL TO EL. 58.6. STRIP 5' AROUND THE SYSTEM IN FILL AREAS.
  7. THE BOTTOM OF EXCAVATION SHALL BE LEVEL AND SCARIFIED.
  8. NO EXISTING OR PROPOSED WELLS, WATERCOURSES OR DRAINS WITHIN 200' OF SYSTEM NOR PUBLIC WELLS WITHIN 500' OF SYSTEM, EXCEPT AS NOTED.
  9. NO SEWAGE SYSTEM WITHIN 100' OF WELL, EXCEPT AS SHOWN.
  10. MIN. DISTANCE FROM LEACHING AREA TO SUBSURFACE DRAIN FOUNDATION DRAIN, & WATER SUPPLY LINE = 25' (EXIST. OR PROP.).
  11. ALL WORK SHALL CONFORM TO THE R.I.D.E.M. RULES & REGULATIONS.
  12. ELEVATION AT GROUNDWATER TEST HOLE = 57.8 (SE-2).

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED JAN 24 2019 FILE # 12-011  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

	DATE	REVISION	<b>THE STORK'S NEST CHILD ACADEMY</b>  3116 SOUTH COUNTY TRAIL MAP 17 A.P. 17 LOT 53 EAST GREENWICH, RI  PREPARED FOR: STORK'S NEST CHILD ACADEMY, INC. 1100 TOLLGATE ROAD WARWICK, RI 02886
	11-29-12	NOTES	
	DWN. BY: LBC	DWG. NO. SFM778CD2-A	<b>CONSTRUCTION DETAILS-2</b>  DATE: NOV. 9, 2012 SCALE: AS NOTED SHEET 6 OF 11
	S.F.M. ENGINEERING ASSOCIATES 410 TIGUE AVENUE COVENTRY, R.I. 02816 (401)826-3736 SCOTT@SFM.NECOXM.COM		





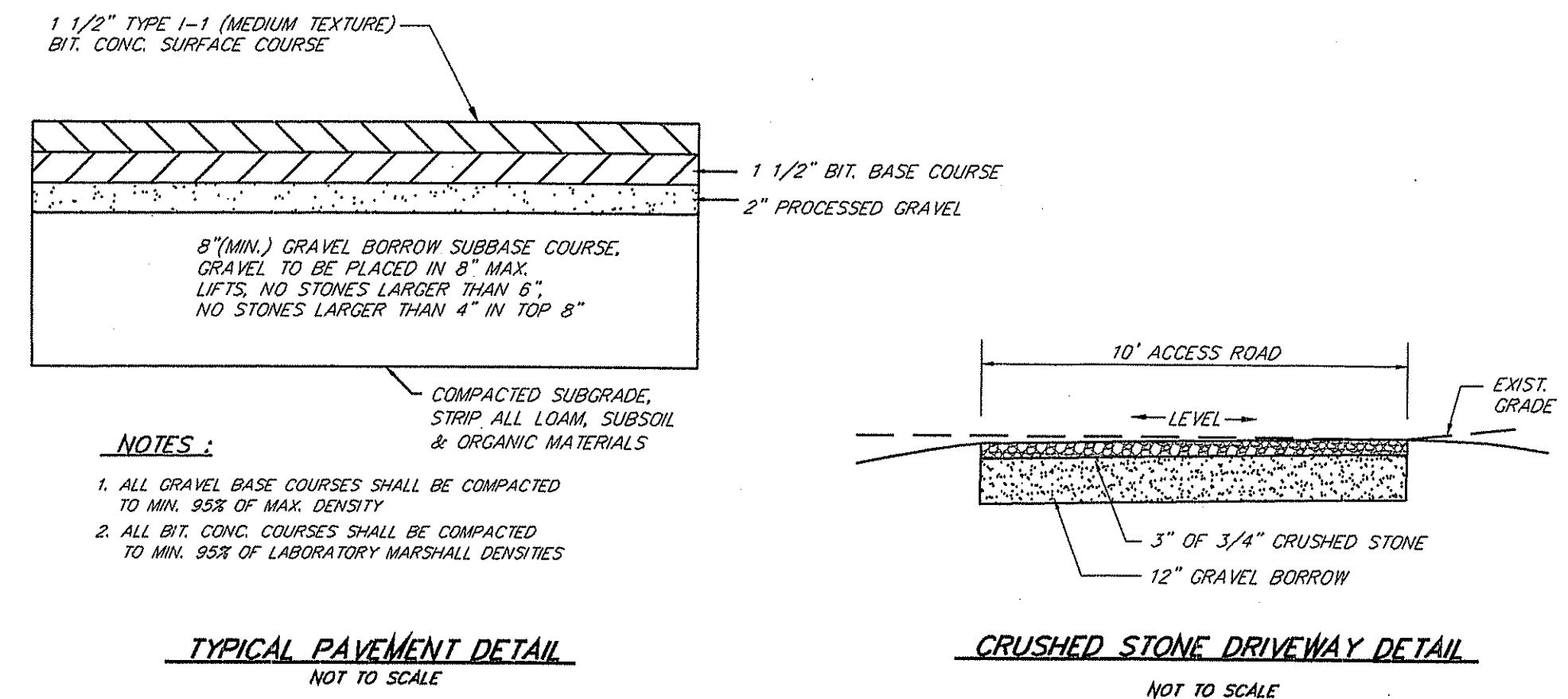
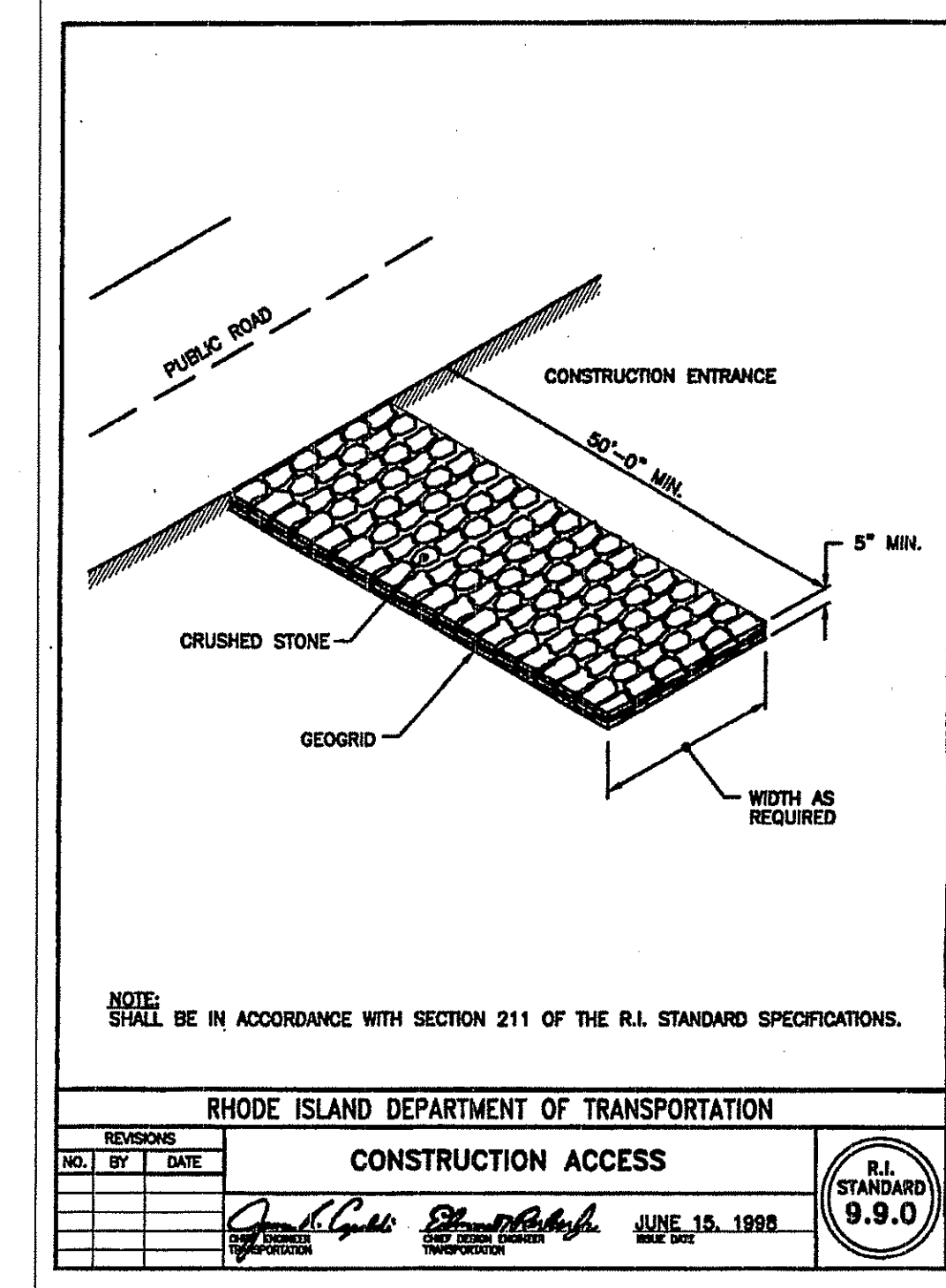
- NOTE:**
- ALL PAVEMENT EDGES SHALL BE TACK COATED.
  - RESAW CUT EXIST. BIT. PAV'T. 12" BEYOND ACTUAL TRENCH WIDTH PRIOR TO PLACEMENT OF PERMANENT PAVEMENT.
  - TOTAL PAV'T. THICKNESS SHALL MATCH EXIST. PAV'T. OR BE 4" WHICHEVER IS GREATER.

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

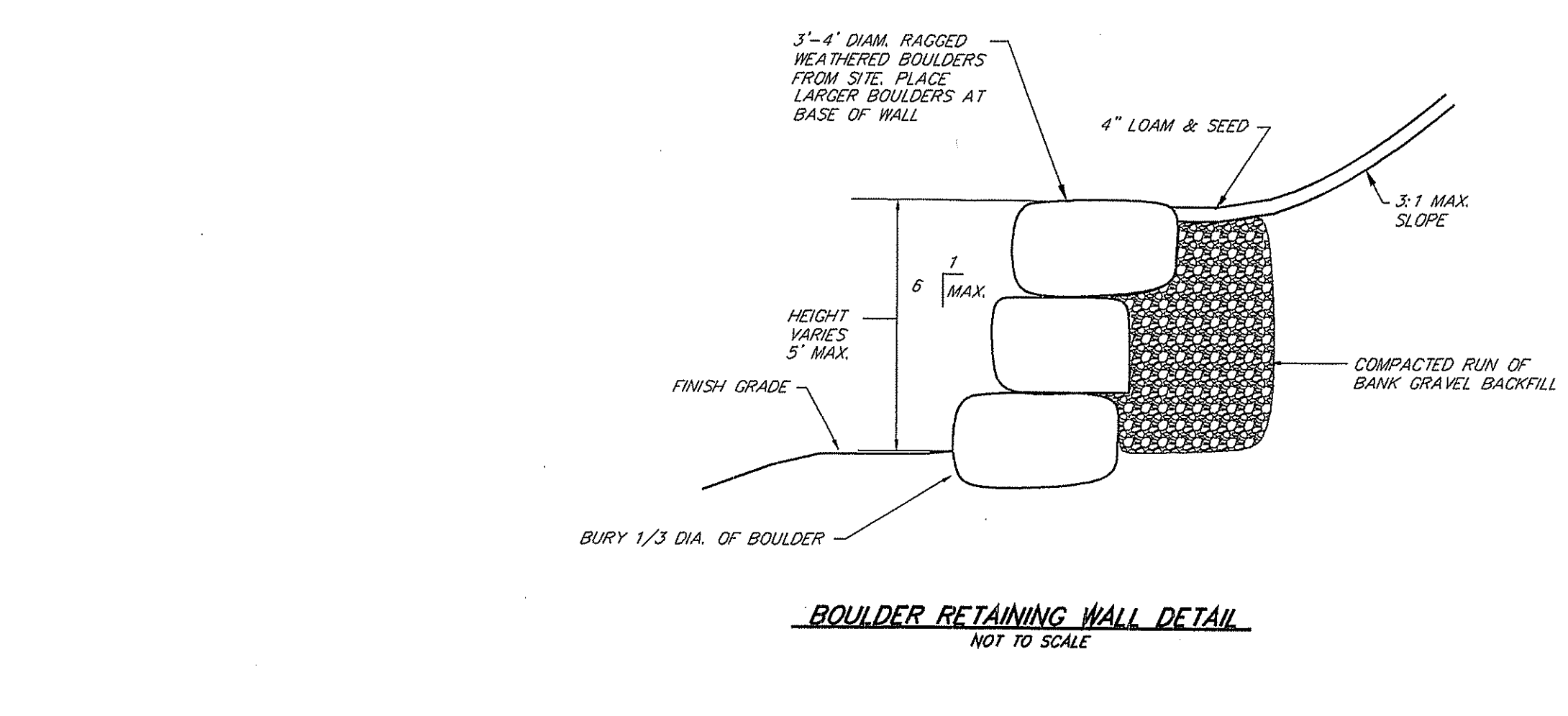
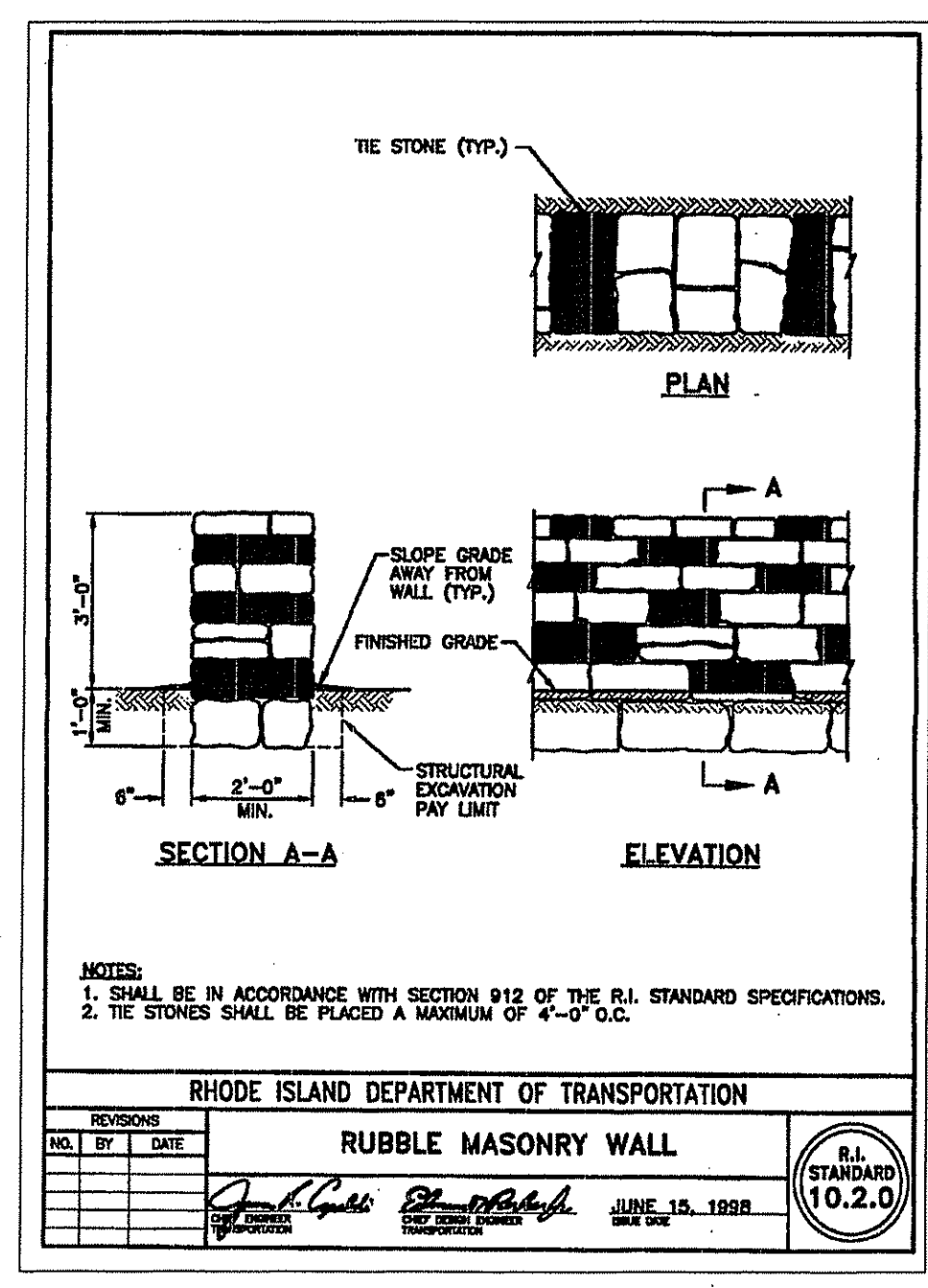
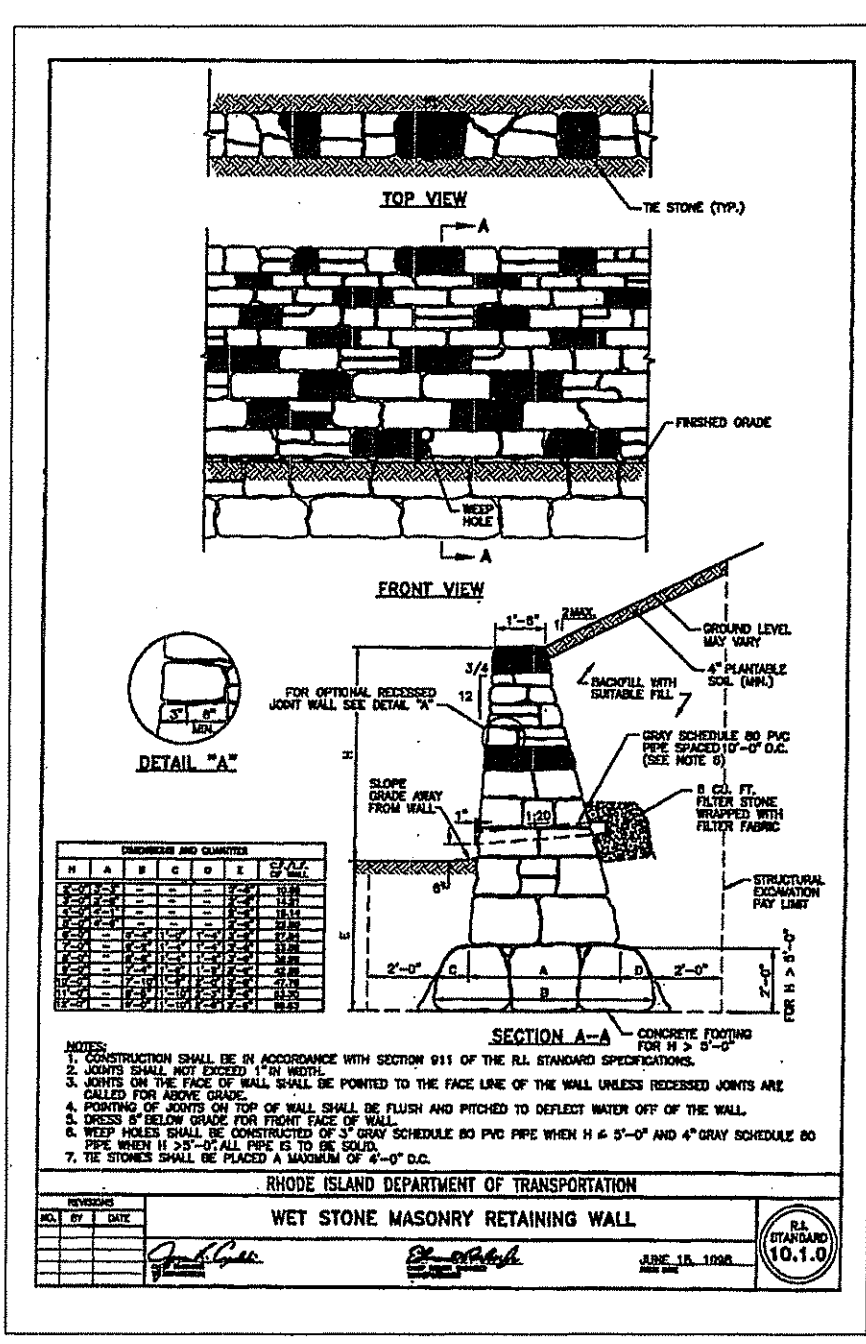
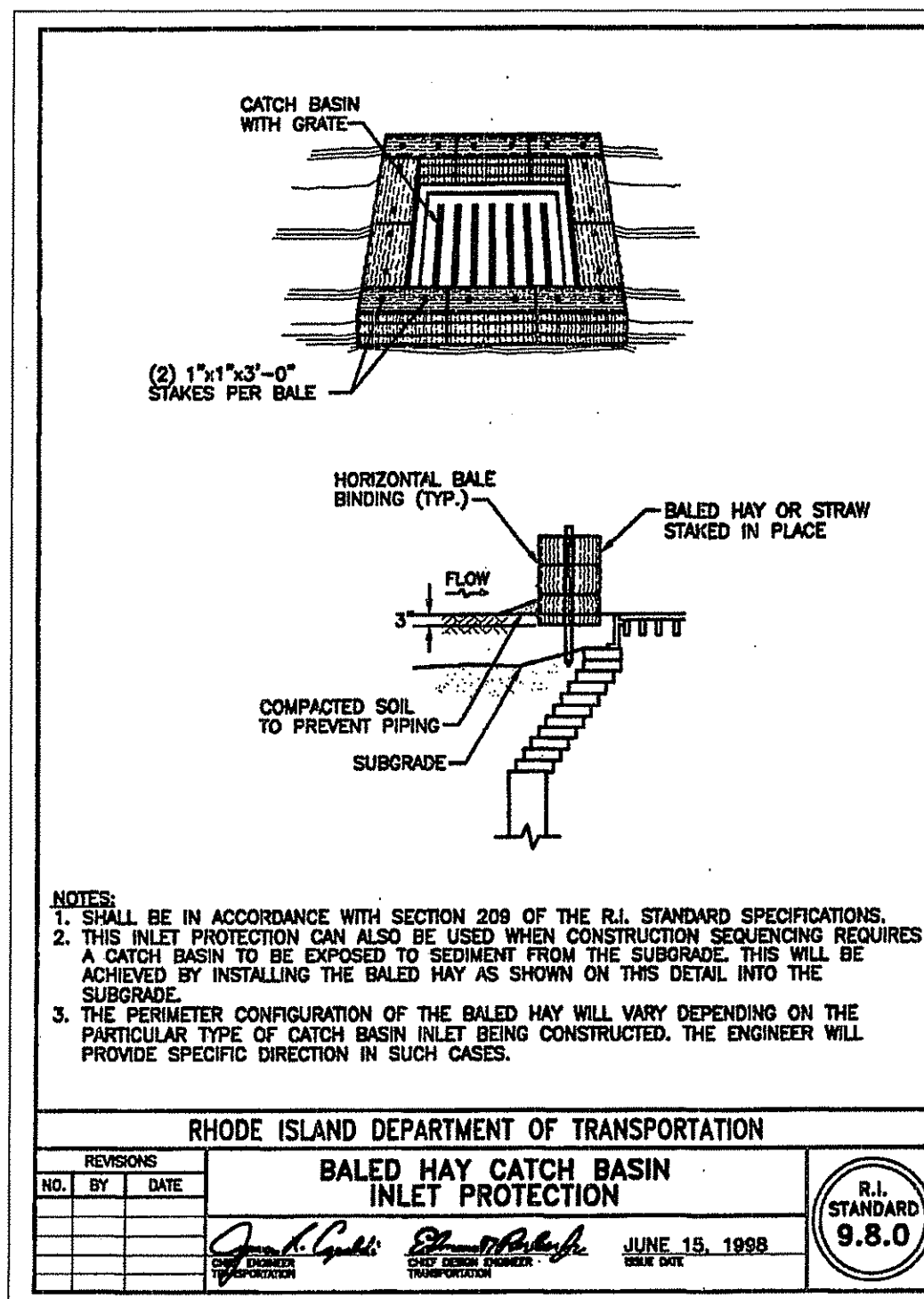
4" (MIN.) OF CRUSHED STONE	SQUARE MESH SIEVES	RIDOT 2" CRUSHED STONE OR GRAVEL	% FINER
	2 1/2"		100
	2"		95-100
	1 1/2"		30-35
	1 1/4"		0-25
	1"		0-5

6" GRAVEL BASE OR FILTER FABRIC

REFERENCE R.I. SOIL EROSION & SEDIMENT CONTROL HANDBOOK CHAPTER 9 SECTION D



- NOTES:**
- ALL GRAVEL BASE COURSES SHALL BE COMPACTED TO MIN. 95% OF MAX. DENSITY
  - ALL BIT. CONC. COURSES SHALL BE COMPACTED TO MIN. 95% OF LABORATORY MARSHALL DENSITIES



- GENERAL NOTES:**
- ALL WORK PERFORMED HEREIN SHALL BE COVERED BY THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (REVISION OF 12-2010) WITH ALL CORRECTIONS AND ADDENDA AND THE 12-1-2010 R.I. STANDARD DETAILS WITH ALL CORRECTIONS AND ADDENDA.
  - EMBANKMENT SLOPES AND ALL DISTURBED AREAS ARE TO RECEIVE 4" OF TOPSOIL AND SEED. 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 SEED 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 SUBJECTED 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.

- 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 A DESIRABLE STAND OF GRASS OR GROUND COVER HAS BEEN ESTABLISHED AND THE PROJECT RECEIVES A FAVORABLE APPROVAL FOR FINAL ACCEPTANCE FROM THE ENGINEER.

- CATCH BASIN SEDIMENTATION BASIN**
- AT NO TIME DURING CONSTRUCTION SHALL THE SUBGRADE OF THE NEW PAVEMENT BE SUCH THAT SURFACE RUNOFF WILL BE PERMITTED TO DIRECTLY ENTER ANY DRAINAGE STRUCTURE. A TEMPORARILY DEPRESSED AREA AROUND THE STRUCTURE SHALL BE INCORPORATED INTO THE SEDIMENTATION TRAP. THE MOUTH OF THE TRAP SHALL BE LINED WITH HAYBALES AROUND THE COMPLETE PERIMETER, SIMILAR TO R.I. STD. DETAIL 9.8.0. DURING ALL PRELIMINARY STAGES THE TOP OF THE STRUCTURE SHALL ALWAYS BE HIGHER THAN THE SUBGRADE.
  - HAYBALE EROSION CHECK SHALL BE MAINTAINED AROUND ALL CATCH BASINS UNTIL ALL UPGRADIENT DISTURBED AREAS ARE STABILIZED BY PAVEMENT OR VEGETATION.

**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 SEED 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, LIMBS 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 INOCULUM FOR EACH VARIETY.
- 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 TREFOR	15	
TOTAL	100 LBS./AC	

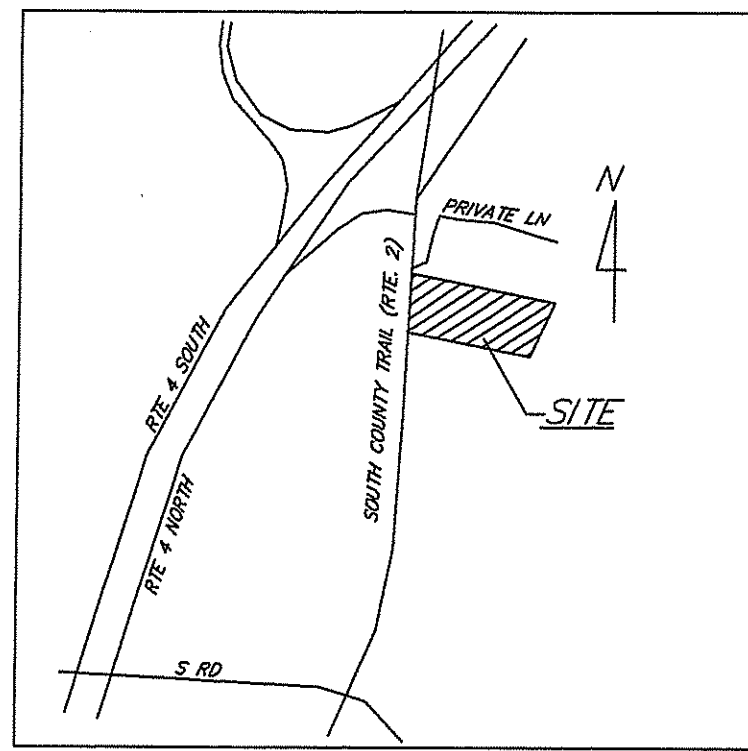
C. CONSERVATION SEEDING AREAS		
MIXTURE	% BY WT.	SEEDING DATES
TALL FESCUE	32	APRIL 1-JUNE 15
RED FESCUE	24	APRIL 1-JUNE 15
PERENNIAL RYEGRASS	18	AUG. 15-OCT. 15
WILDFLOWER MIX	15	
REED CANARY GRASS	7	
REDTOP	4	
TOTAL	200 LBS./AC	

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED JAN 24 2013 FILE # 12-0115  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Myra D. Wencel*

	DATE	REVISION	<b>THE STORK'S NEST CHILD ACADEMY</b> 3116 SOUTH COUNTY TRAIL MAP 17 A.P. 17 LOT 53 EAST GREENWICH, RI PREPARED FOR: STORK'S NEST CHILD ACADEMY, INC. 1100 TOLLGATE ROAD WARWICK, RI 02886
	OWN. BY: LBC	DWG. NO. SFM778ER	
	S.F.M. ENGINEERING ASSOCIATES 410 D TROJUE AVENUE COVENTRY, R.I. 02816 (401)826-3736 SCOTT@SFM.NECOXMAIL.COM		<b>EROSION CONTROL NOTES &amp; DETAILS</b> DATE: NOV. 9, 2012 SCALE: AS NOTED SHEET 8 OF 11





**SEED MIX A  
MOWED AREAS MIX**

TYPE	% BY WEIGHT
NASSAU KENT BLUE	60
JAMESTOWN CHEWINGS FESCUE	20
PALMER PERENNIAL RYE GRASS	15

APPLICATION RATE = 200 LBS. / ACRE

**SEED MIX B  
SLOPES & SWALES MIX**

TYPE	% BY WEIGHT
CREeping RED FESCUE	70
ASTORIA BENTGRASS	5
BIRDSFOOT TREFOIL	15
PERENNIAL RYE GRASS	10

APPLICATION RATE = 200 LBS. / ACRE

**SEED MIX C  
MEADOWS**

TYPE	% BY WEIGHT
CREeping RED FESCUE	28
TALL FESCUE	24
PERENNIAL RYE GRASS	18
LITTLE BLUESTEM	15
REDBTOP	4
NORTHEAST WILDFLOWER MIX	4

APPLICATION RATE = 220 LBS. / Acre

**SEED MIX D  
BIO-RETENTION/INFILTRATION BASIN FLOOR**

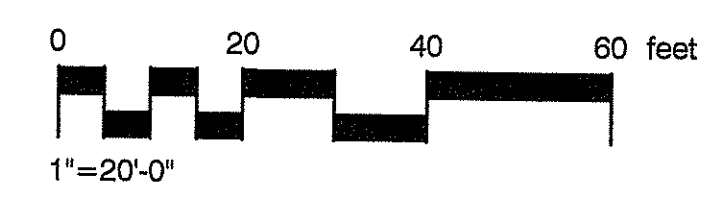
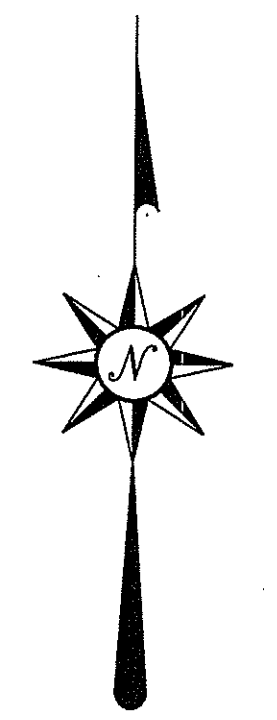
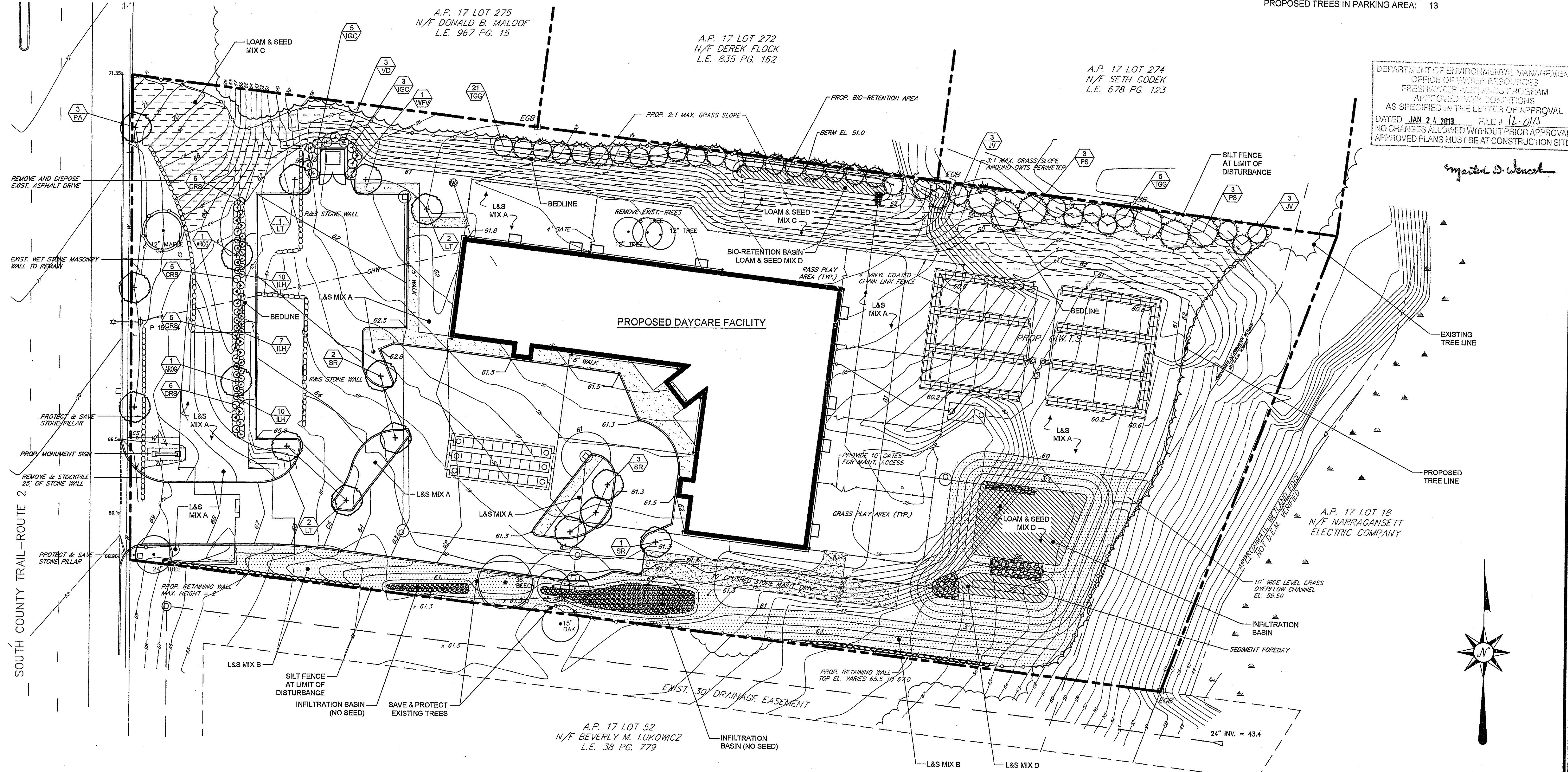
USE 'DETENTION BASIN SEED MIX' FROM PRAIRIE MOON NURSERY (866-417-8156) OR APPROVED EQUAL  
APPLICATION RATE = 9.35 LBS. / Acre

PLANT SCHEDULE				
KEY	QTY.	BOTANICAL NAME - Common Name	SIZE	NOTES
<b>TREES</b>				
AROG	2	ACER RUBRUM 'OCTOBER GLORY' - Red Maple	2-2.5" Cal.	LIMB TO 7'
JV	6	JUNIPERUS VIRGINIA - Eastern Red Cedar	5-6" H	8' O.C.
LT	5	LIRIODENDRON TULIPIFERA - Tulip Tree	2-2.5" Cal.	LIMB TO 7'
PA	3	PLATANUS x ACERFOLIA - London Plane Tree	2.5-3" Cal.	LIMB TO 7'
PS	6	PINUS STROBUS - Eastern White Pine	6-8" H	12' O.C.
SR	6	SYRINGA RETICULATA - Japanese Tree Lilac	2-2.5" Cal.	LIMB TO 7'
TGG	26	THUJA x 'GREEN GIANT' - Green Giant Arborvitae	6-8" H	8' O.C.
<b>SHRUBS</b>				
IGC	8	ILEX GLABRA 'COMPACTA' - Compacta Inkberry	2.5-3' BB&B	4' O.C.
CRS	22	CLETHRA 'RUBY SPICE' - Pink Summersweet Clethra	2.5-3'	3' O.C.
ILH	27	ITEA VIRGINICA 'LITTLE HENRY' - Little Henry Sweetspire	7 Gal.	30" O.C.
VD	3	VIBURNUM DENTATUM - Arrowwood Viburnum	2.5-3' BB&B	4' O.C.
WV	1	WEIGELA FLORIDA 'VARIEGATA' - Variegated Pink Weigela	4-5' BB&B	n/a

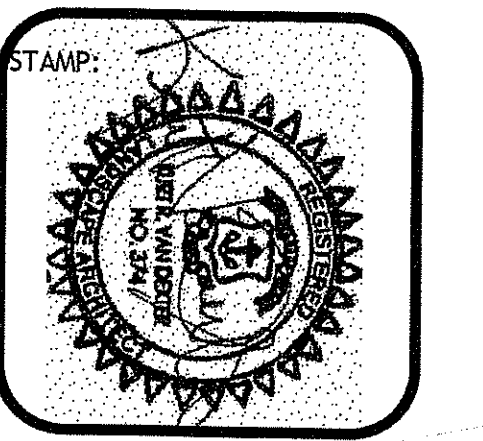
PAVED SURFACES LOT COVERAGE: 19,150sf  
REQUIRED TREES (1 TREE PER 2,000sf): 10  
PROPOSED TREES IN PARKING AREA: 13

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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DATED JAN 24 2019 FILE # 12-0113  
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Martin D. Wenzel*



**GENERAL NOTES:**  
1. CALL 1-800-DIGSAFE BEFORE CONSTRUCTION, ALL UTILITIES TO BE VERIFIED BEFORE CONSTRUCTION  
2. PROTECT EXISTING VEGETATION AS NOTED WITH APPROVED TREE PROTECTION DEVICE  
3. LOAM & SEED ALL DISTURBED AREAS WITH CONSERVATION MIX  
4. THE INFORMATION ON THIS PLAN WAS COMPILED FROM DRAWINGS BY SFM ENGINEERING. THIS IS NOT A REGISTERED SURVEY. TO THE BEST OF OUR KNOWLEDGE, THIS DRAWING IS A TRUE REPRESENTATION OF THE ACTUAL FIELD CONDITIONS

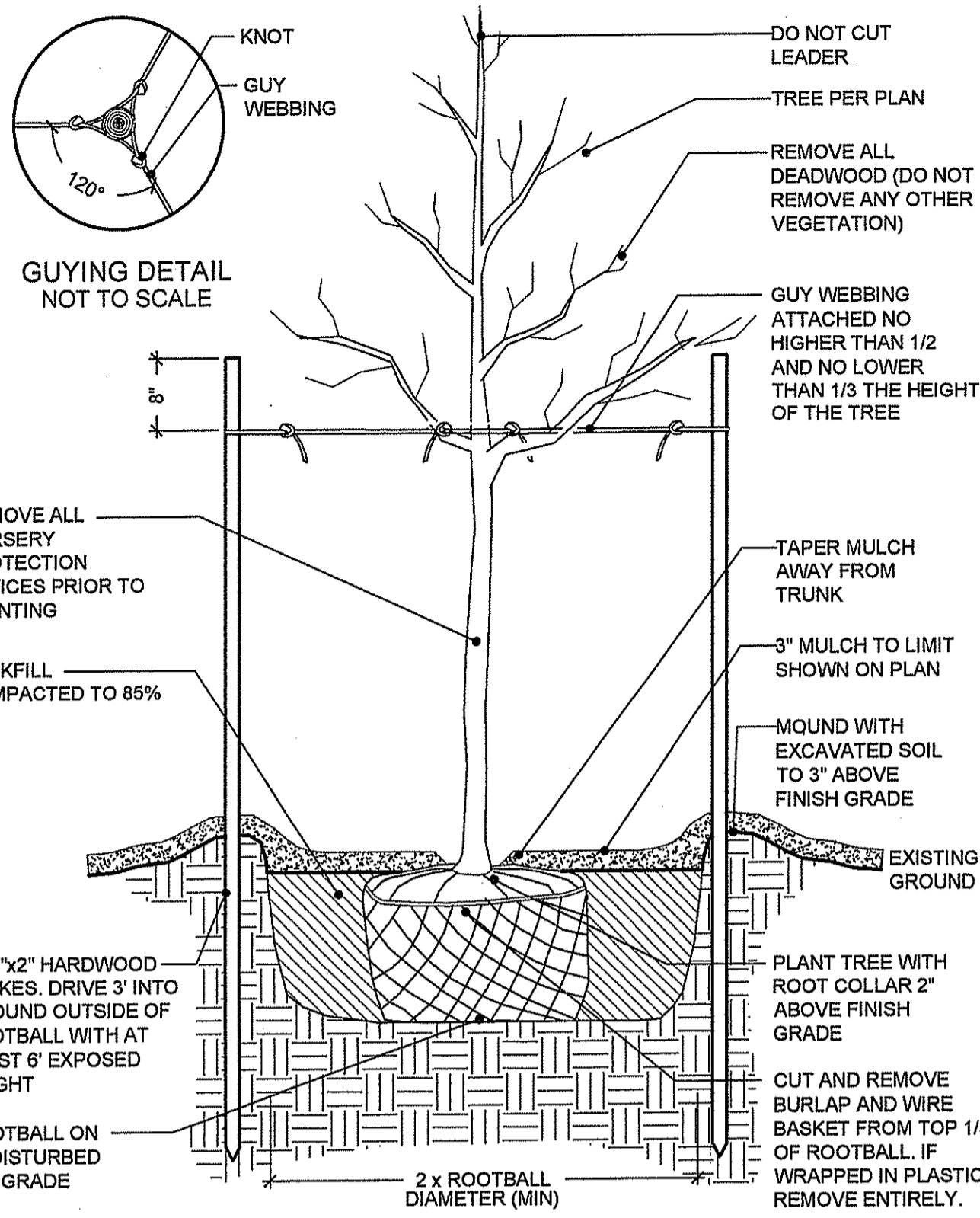


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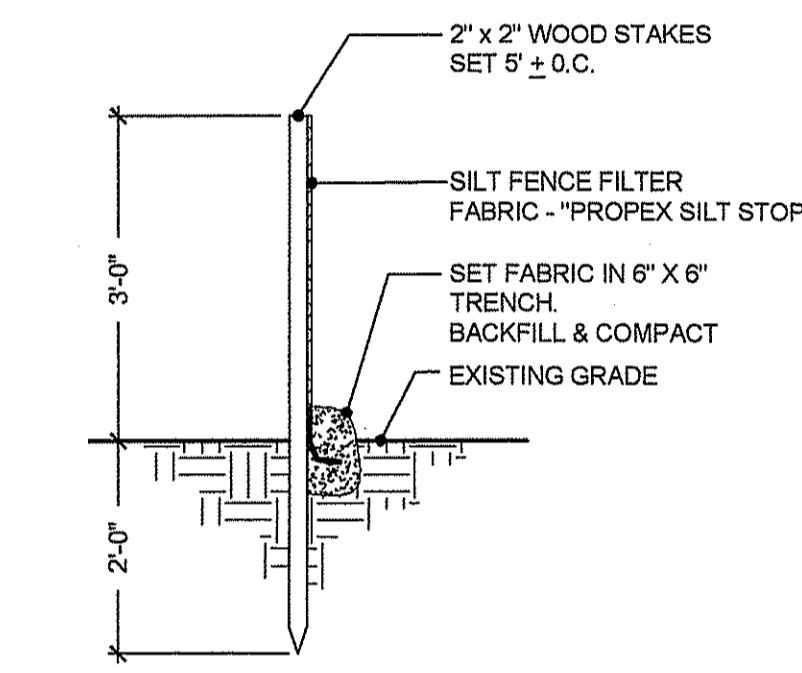
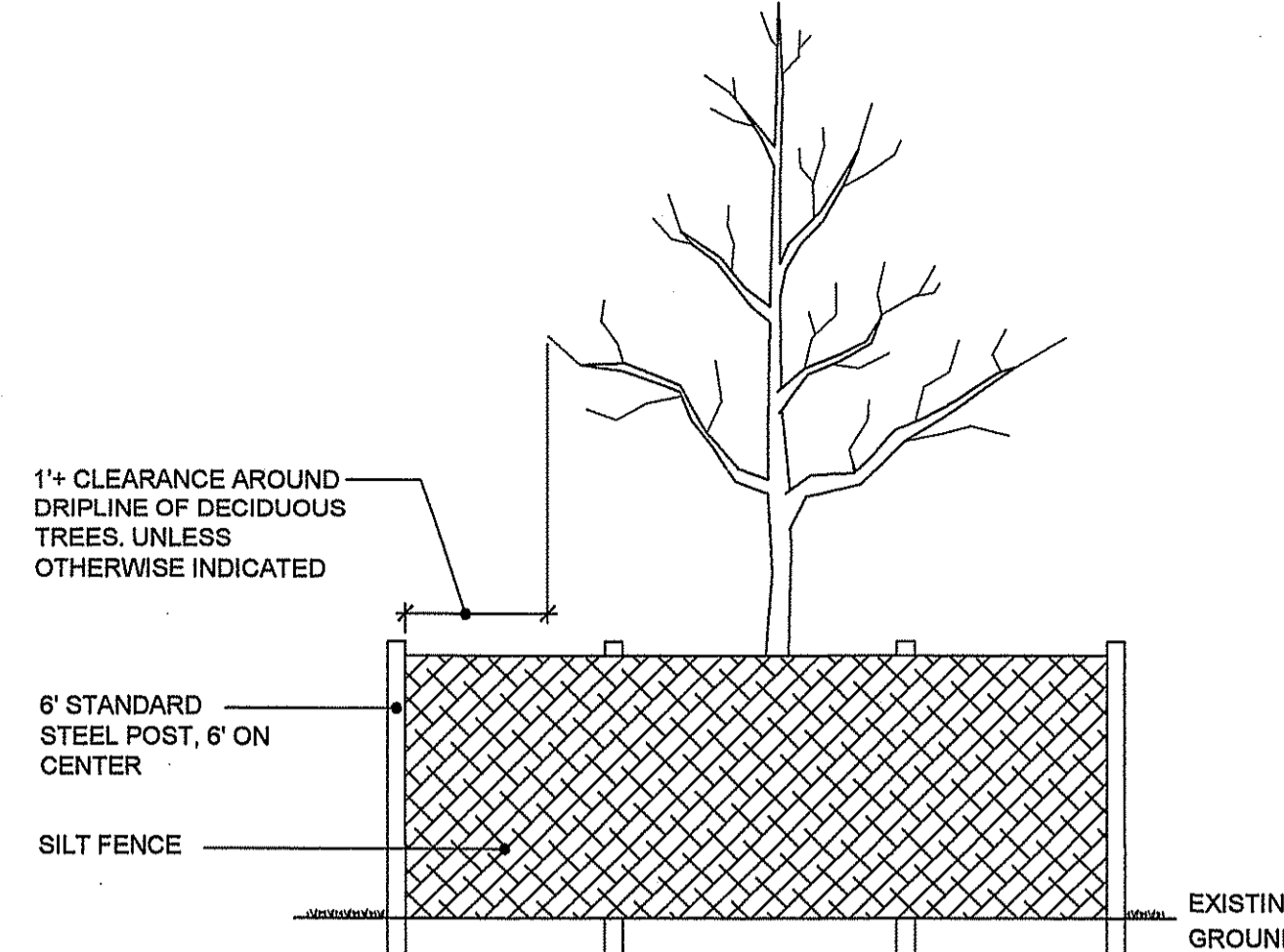
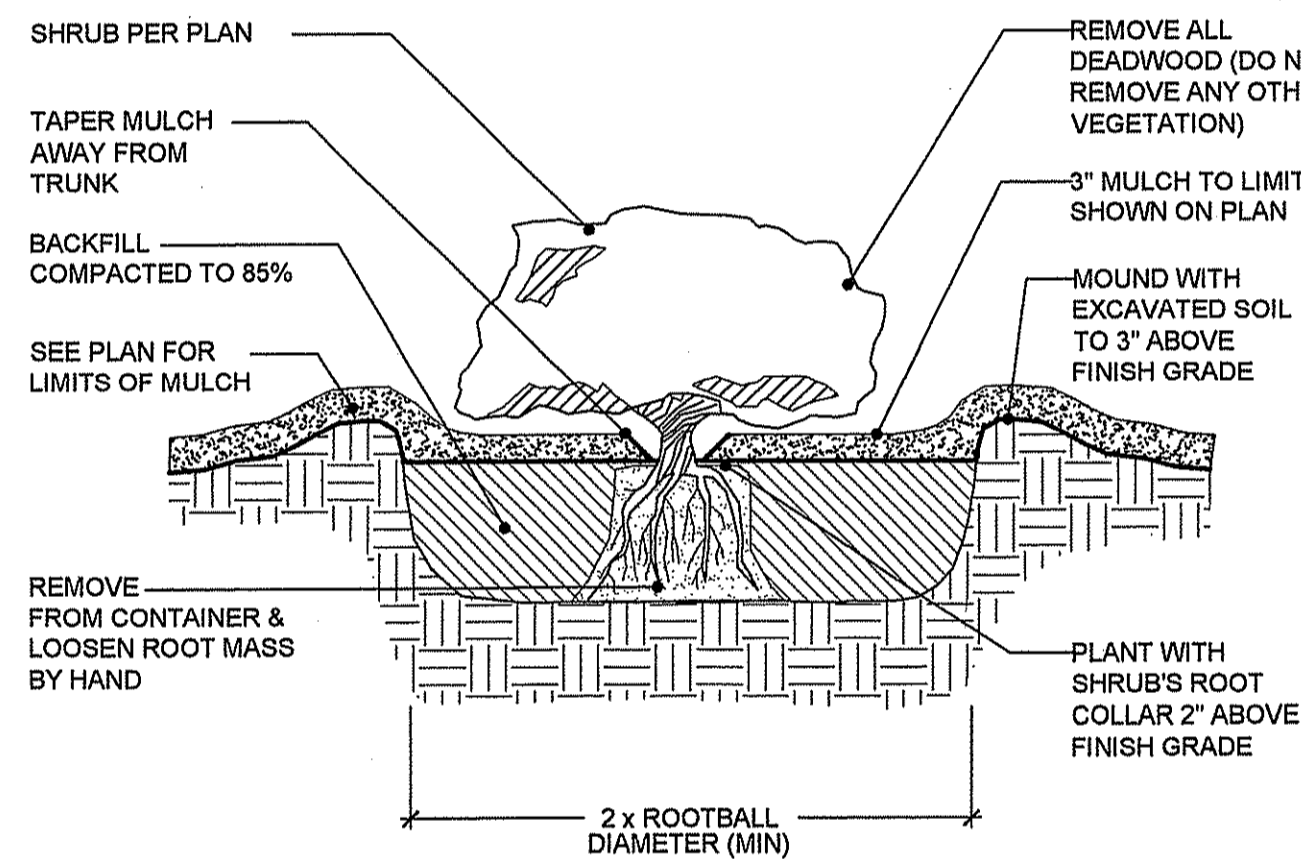
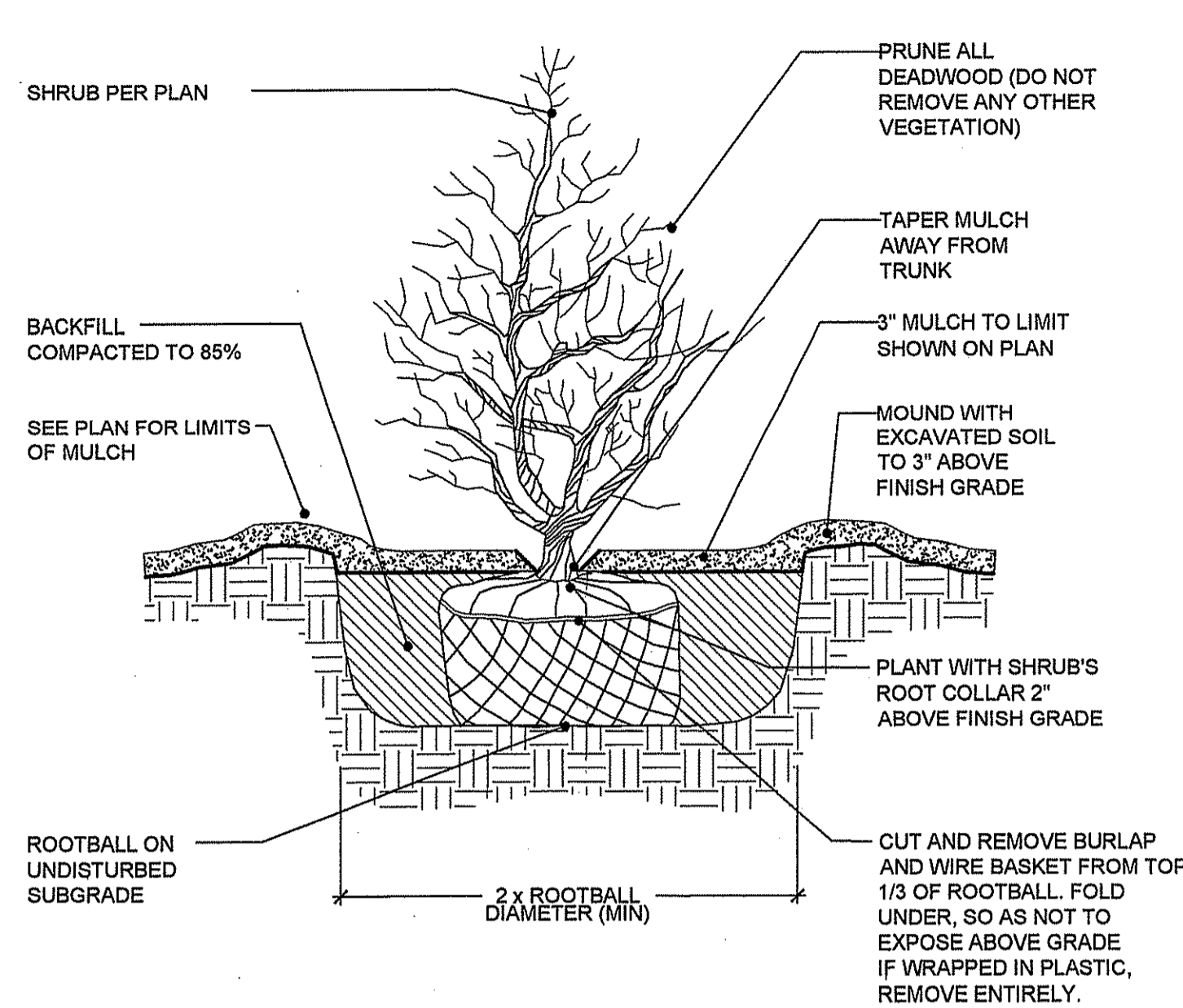
**SFM**  
S.F.M. ENGINEERING ASSOCIATES  
410 TOGUE AVENUE  
COVENTRY, R.I. 02816  
(401)826-3736

**LANDSCAPE PLAN**  
THE STORK'S NEST CHILD ACADEMY  
3116 SOUTH COUNTY TRAIL  
A.P. 17, LOT 53  
EAST GREENWICH, RHODE ISLAND

REVISION: DECEMBER 5, 2012  
DATE: NOVEMBER 20, 2012  
DRAWN BY: SGG  
SCALE: 1" = 20'  
SHEET  
**L-1**  
SHEET NO. 10 OF 11  
JOB NO. 372



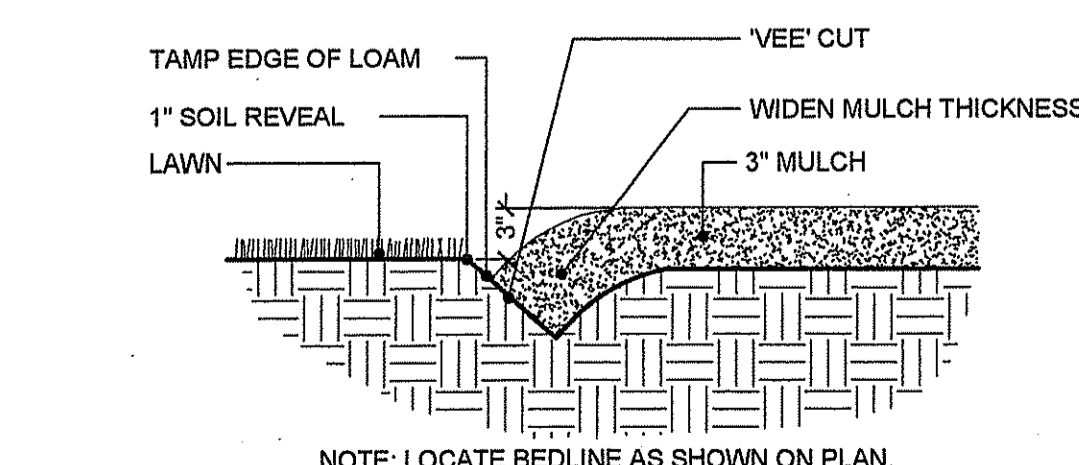
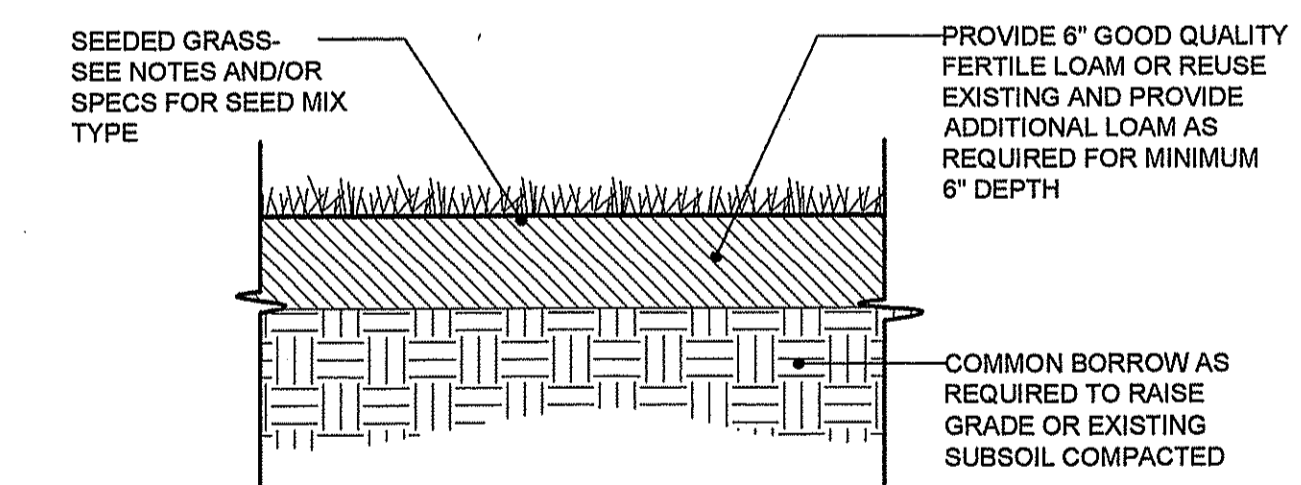
NOTE:  
1. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES AND GUY WEBBING.



NOTE: SEE PLANS FOR EXTENTS OF SILT FENCE

**SEEDING NOTES**

- LOAM SHALL BE SPREAD TO A MINIMUM DEPTH OF 6" OVER ALL AREA DESIGNATED ON PLANS.
- SHAPE AND SMOOTH THE SURFACE TO THE LINES AND GRADES AS SHOWN ON PLANS.
- FERTILIZE WITH 10-10-10 OR EQUIVALENT ANALYSIS. AT LEAST 40% OF THE FERTILIZER NITROGEN SHALL BE IN A SLOW RELEASE FORM. INCORPORATE THE FERTILIZER INTO THE TOP 3 TO 4 INCHES OF THE PLANTING SOIL. APPLY AT THE RATE OF 8 POUNDS PER 1,000 SQ. FT. AT SEEDING.
- LIME: SPREAD EVENLY AND WORK INTO THE SOIL DURING PREPARATION OF SEED BED AT THE RATE OF ONE TON PER ACRE. INCORPORATE INTO THE SOIL BY DIGGING OR OTHER APPROVED METHOD. DISTRIBUTE LIME UNIFORMLY AND WORK INTO TOP 4 INCHES OF TOP SOIL (MINIMUM) AND UNIFORMLY BLEND BY DIGGING OR ROTOTILLING.
- ANY LOAM EXPOSED FOR ONE WEEK SHALL BE PLANTED WITH ANNUAL RYE GRASS SEED & SEED MIX A. ALL LOAM STOCKPILES TO BE SEED IMMEDIATELY
- APPLICATION OF SEED:
  - RATE OF APPLICATION OF SEED SHALL BE 8 POUNDS PER 1,000 SQ. FT. OR AS INDICATED ON PLANS.
  - SEEDING SHALL BE DONE IN ACCORDANCE WITH SECTION L.02.03 OF THE RI STANDARD SPECIFICATIONS AND ONLY DURING THE FOLLOWING DATES:  
 SPRING SEEDING: MARCH 15 TO MAY 31  
 FALL SEEDING: AUGUST 15 TO OCTOBER 15
  - THE CONTRACTOR SHALL KEEP ALL SEEDING AREAS WATERED AND IN GOOD CONDITION, RESEEDING IF AND WHEN NECESSARY FOR AN 8-WEEK PERIOD OR UNTIL A GOOD, HEALTHY, UNIFORM GROWTH IS ESTABLISHED OVER THE ENTIRE AREA. THE CONTRACTOR SHALL LEAVE THESE AREAS IN GOOD CONDITION, ALSO MAINTAIN THESE AREAS IN GOOD CONDITION UNTIL PROVISIONAL ACCEPTANCE.
  - DURING THIS PERIOD, WATER TURF AS NECESSARY TO MAINTAIN AN ADEQUATE SUPPLY OF MOISTURE, THE EQUIVALENT OF ONE INCH OF ABSORBED WATER PER WEEK THAT IS DELIVERED AT WEEKLY INTERVALS IN THE FORM OF NATURAL RAIN OR IS AUGMENTED AS REQUIRED BY PERIODIC WATERINGS IS REQUIRED.
  - OVERSEED WHEN NECESSARY TO PROMOTE GRASS GROWTH
  - REPLANT AREAS VOID OF TURF ONE SQUARE FOOT OR LARGER.
- SEE SEED MIX CHART ON TOP OF SHEET L-1 (10) FOR SEED MIX TYPES



NOTE: LOCATE BEDLINE AS SHOWN ON PLAN.

**CONSTRUCTION NOTES:**

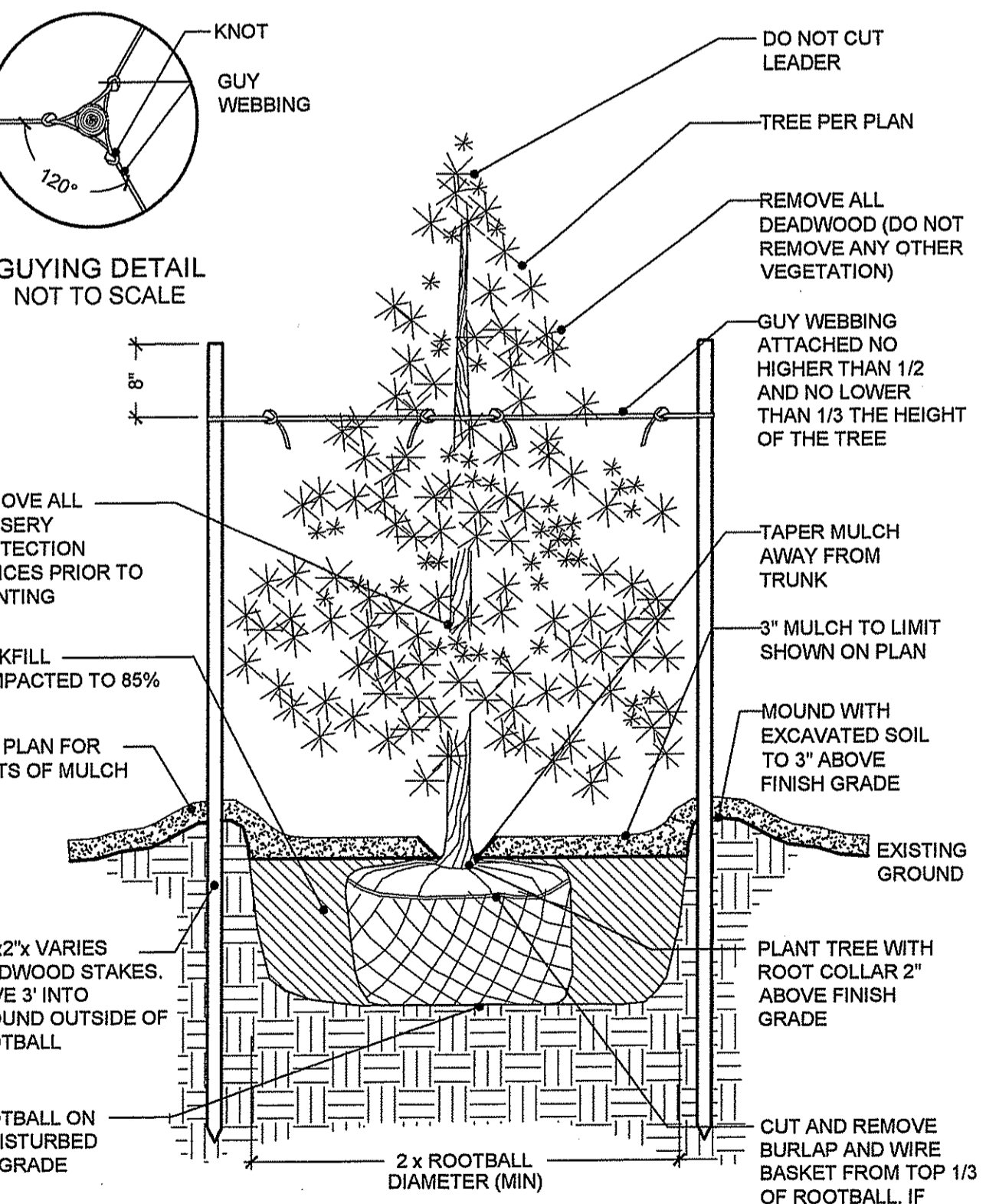
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON SITE AND SHALL IMMEDIATELY REPORT ANY DISCREPANCIES OR DEVIATIONS FROM THE CONSTRUCTION PLANS TO THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL ALSO REPORT ANY CONDITIONS UNCOVERED IN THE WORK THAT ARE NOT REFLECTED WITHIN THE PLANS.
- THE CONTRACTOR SHALL, UNDER THE DIRECTION OF THE OWNER, ESTABLISH CONSTRUCTION LIMITS ON THE SITE BY ACCEPTABLE VISIBLE MARKERS PLACED AT EYE LEVEL. ALL WORK AND EQUIPMENT SHALL BE CONFINED TO WITHIN THESE LIMITS. THE CONTRACTOR SHALL REMOVE ALL MARKERS WHEN DIRECTED BY OWNER.
- THE SITE SHALL BE "ROUGH GRADED" TO THE ELEVATIONS AND CONTOURS SET FORTH ON THE PLANS, ALLOWING FOR GRAVEL, LOAMING AND FINAL GRADING.
- THE CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING LOAM FROM THOSE AREAS THAT ARE TO BE EXCAVATED OR FILLED AND TO WITHIN THE PROJECT LIMITS. STOCKPILED LOAM SHALL NOT BE MIXED WITH ANY SUBSOIL OR OTHER UNSUITABLE MATERIAL UNLESS DIRECTED BY OWNER. ALL EXCESS SOIL REMAINS THE PROPERTY OF THE OWNER. EARTH EXCAVATION SHALL BE LIMITED TO THE DIMENSIONS AND REQUIREMENTS SHOWN ON THE DRAWINGS.
- THE INTENTION OF THE OWNER IS TO MAINTAIN THE BOUNDARIES OF THE SITE IN ITS EXISTING CONDITION AND THEREFORE THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFINING THE WORK TO WITHIN THE CONSTRUCTION LIMITS.
- ALL EXISTING VEGETATION (TREES, SHRUBS, GRASSES, ETC.) TO REMAIN SHALL BE PROTECTED BY INJURY. INDIVIDUAL TREES AND SHRUBS TO BE SAVED WITHIN THE DESIGNATED WORK AREA SHALL BE ADEQUATELY PROTECTED BY THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE ALL PROTECTIVE BARRIERS AS DIRECTED BY THE OWNER.
- ALL EXISTING GRASSED AREAS NOT ADEQUATELY PROTECTED AND THEREFORE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL WETLANDS, COASTAL, CITY/TOWN, AND STATE REGULATIONS.
- ALL PLANTINGS SHALL BE MAINTAINED IN A MANNER SO AS TO PROMOTE OPTIMUM GROWTH OF PLANT MATERIALS
- ALL TREES, SHRUBS, GROUND COVERS, AND OTHER PLANT MATERIALS MUST BE REPLACED IF THEY DIE OR BECOME UNHEALTHY BECAUSE OF ACCIDENTS, DRAINAGE PROBLEMS, DISEASE, OR OTHER CAUSES. ALL SUCH REPLACEMENTS SHALL CONFORM TO ALL STANDARDS THAT GOVERNED THE ORIGINAL INSTALLATION. WHERE NO SUCH STANDARDS EXIST, NEW PLANTINGS SHALL MATCH THE REPLACED MATERIALS IN TYPE, SPECIES, AND QUANTITY.

**PLANTING NOTES:**

- FURNISH AND INSTALL ALL PLANTS SHOWN ON THE DRAWINGS SPECIFIED HEREIN, AND IN THE QUANTITIES LISTED ON THE PLANT LIST. NO SUBSTITUTIONS WILL BE PERMITTED, UNLESS APPROVED BY THE LANDSCAPE ARCHITECT AND PROJECT ADMINISTRATOR.
- LOAM TO BE GOOD QUALITY, FERTILE, FREE OF WEEDS, STICKS STONES OVER 3/4", AND ROOTS. SPREAD TO A MINIMUM OF 4" OVER ALL PLANTED AREAS AND 12" IN ALL AREAS DESIGNATED.
- NURSERY STOCK SHALL MEET THE STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN AS TO GRADING AND QUALITY.
- ONLY NURSERY-GROWN PLANTS, GROWN IN ACCORDANCE WITH ACCEPTED HORTICULTURAL PRACTICES AND GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST (2) YEARS, WILL BE ACCEPTED.
- SET PLANTS PLUMB AND AT A LEVEL THAT AFTER SETTLEMENT THEY BEAR THE SAME RELATION TO THE SURROUNDING GROUND AS THEY BORE TO THE GROUND FROM WHICH THEY WERE DUG. SETTLE BACKFILL MATERIAL FOR PLANTS, THOROUGHLY AND PROPERLY BY FIRING OR TAMPING FORM SAUCERS CAPABLE OF HOLDING WATER ABOUT INDIVIDUAL PLANTS, BY PLACING RIDGES OF PLANTING SOIL AROUND EACH.
- STREET TREES SHALL BE SECURELY TRIPLE-STAKED WITH STAKES OF A MINIMUM SIZE OF TWO INCHES BY TWO INCHES BY SIX FEET.
- TREES IN OPEN AREAS TO HAVE A NATURALIZED BRANCHING HABIT
- ALL STREET TREES ADJACENT TO SIDEWALKS AND ROADS MUST HAVE A MINIMUM CLEARANCE HEIGHT OF 7 (7 FEET) TO THE FIRST BRANCH
- WATERING: WATER ALL PLANTS WITHIN 48 HOURS AFTER PLANTING IF CONDITIONS WARRANT, AND AS MANY TIMES THEREAFTER TO SUSTAIN HEALTHY CONDITIONS. SATURATE THE SOIL AROUND EACH PLANT THOROUGHLY AT EACH WATERING, WHICH EVER IS REQUIRED BY SITE CONDITIONS
- PRUNING: PRUNE PLANTS, AS DIRECTED BY OWNER, AT THE PROJECT SITE BEFORE OR IMMEDIATELY AFTER PLANTING IN ACCORDANCE WITH THE BEST HORTICULTURAL PRACTICE. CUT BROKEN, DEAD OR INJURED BRANCHES FLUSH WITH THE TRUNK OR THE LIMB. PRUNE ALL BROKEN ROOTS ON THE PLANT SIDE OF THE BREAK. PRUNING SHALL NOT DEFORM OR OTHERWISE DESTROY THE TYPICAL SHAPE OR SYMMETRY OF THE PLANT AND SHALL NOT REDUCE THE HEIGHT BY MORE THAN ONE-THIRD. DO NOT CUT BACK THE LEADER OF THE PLANT UNLESS DIRECTED BY THE LANDSCAPE ARCHITECT.
- FERTILIZING: FERTILIZE SHRUB BEDS WITH 10-6-4 FERTILIZER AT A RATE OF THREE POUNDS PER 100 SQUARE FEET OF SURFACE AREA, BROADCAST. APPLY THE FERTILIZER UNIFORMLY TO THE SURFACE BEDS AND WORK INTO THE UPPER TWO INCHES OF SOIL. FERTILIZE INDIVIDUAL TREES AT THE RATE OF ONE AGRIFORM PELLET PER INCH OF TRUNK DIAMETER (FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS). APPLY A SECOND APPLICATION OF FERTILIZER TO ALL PLANT ITEMS AT THE SAME SPECIFIED RATES OVER THE MULCH AT THE END OF AN EIGHT WEEK PERIOD.
- MULCHING: COVER ALL PLANTED AREAS WITH 3" DARK BROWN PINE BARK MULCH WITHIN A SEVENTY - TWO HOUR PERIOD AFTER PLANTING. NO RED MULCH ACCEPTED.
- GUARANTEE: ALL PLANTS FURNISHED BY THE CONTRACTOR SHALL BE GUARANTEED FOR A PERIOD OF TWO (2) YEARS AFTER PRELIMINARY INSPECTION AND SHALL BE ALIVE AND IN SATISFACTORY GROWTH AT THE END OF THE GUARANTEE PERIOD. ALL DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED AT ONCE BY THE CONTRACTOR, FREE OF CHARGE.
- ALL TREES ARE TO HAVE ONE MAIN LEADER.
- CONTRACTOR IS RESPONSIBLE FOR CHECKING THE IRRIGATION AND WATER AMOUNTS FOR THE FIRST YEAR.

**DIG SAFE**

- RHODE ISLAND LAW REQUIRES THAT DIG SAFE AND ALL UTILITY COMPANIES BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF 48 HOURS - 2 BUSINESS DAYS - PRIOR TO ANTICIPATED EXCAVATION. THIS DOES NOT INCLUDE WEEKENDS OR LEGAL HOLIDAYS. DIG SAFE MAY BE CONTACTED BY CALLING 1-888-344-7233 MONDAY THRU FRIDAY FROM 6 A.M. TO 6 P.M.
- STATE LAW REQUIRES ALL EXCAVATORS TO PRE-MARK THE AREA OF EXCAVATION BEFORE NOTIFYING THE UTILITY COMPANIES. PRE-MARKING IS DEFINED AS MARKING OUT THE SCOPE OF THE PROPOSED EXCAVATION ARE, USING STAKES, PAINT OR FLAGS.
- LOCATE AND RECORD ALL BURIED UTILITIES AND CONFORM TO REQUIREMENTS GOVERNING EXCAVATION AND CHANGES IN THIS AREA.
- THE DEPTH OF UNDERGROUND FACILITIES IS VARIABLE, THEREFORE STATE LAW REQUIRES EXCAVATORS TO USE NON-MECHANICAL MEANS WHEN DIGGING WITHIN 18" OF A MARKED UNDERGROUND FACILITY. THE CURRENT DEPTH OF A FACILITY MIGHT NOT BE THE SAME AS WHEN IT WAS ORIGINALLY INSTALLED, DUE TO SOIL EROSION, GRADING AND MANY OTHER FACTORS. TO ENSURE THE SAFETY OF EXCAVATORS AND TO AVOID DISRUPTION, IT MAKES SENSE TO HAND DIG WHEN NEAR AND UNDERGROUND FACILITY.
- IF DAMAGE OCCURS TO A UTILITY LINE, AND THERE IS A POSSIBILITY THAT THE DAMAGE MAY POSE A THREAT TO THE HEALTH AND SAFETY OF THE PUBLIC, CALL 911 IN ORDER TO DISPATCH LOCAL OFFICIALS WHO WILL DETERMINE WHETHER THE COMMUNITY IS IN IMMEDIATE DANGER. NEXT, ACCORDING TO STATE LAW, IT IS THE RESPONSIBILITY OF THE EXCAVATOR TO NOTIFY THE AFFECTED UTILITY COMPANY DIRECTLY AFTER DAMAGE OCCURS. STATE LAW PROHIBITS THE CONTRACTOR FROM ATTEMPTING TO REPAIR THE LINE, OR BACKFILLING BEFORE THE LINE HAS BEEN REPAIRED BY THE UTILITY COMPANY. FAMILIARIZE YOURSELF WITH YOUR LOCAL UTILITY COMPANIES' SAFETY PROCEDURES AND PROTOCOL IN THE EVENT OF UTILITY LINE DISRUPTION.
- A DIG SAFE PERMIT SHOULD BE PROCESSED ONLY IF YOU INTEND TO EXCAVATE WITHIN 30 DAYS.

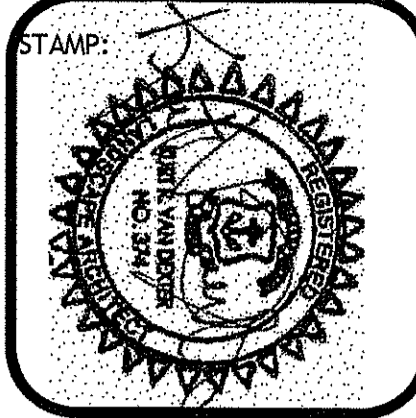


NOTE:  
1. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES AND GUY WEBBING.

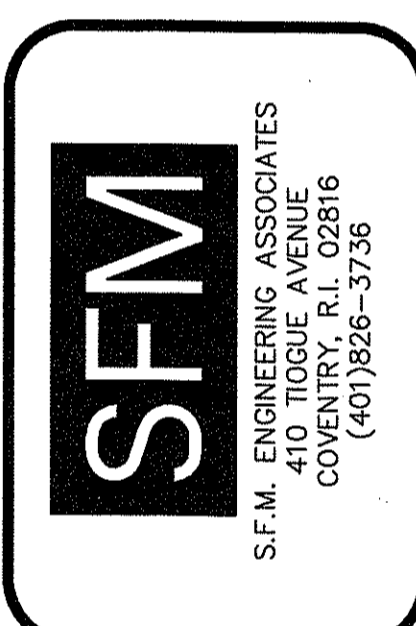
**BIO-RETENTION SOIL & SEEDING NOTES**

- SITE PREPARATION AND SEEDING YEAR  
PREPARE THE BIO RETENTION BED (NORTHMOST BASIN ONLY) WITH THE FOLLOWING SOIL MIX:  
  - LOAMY SAND TO A SANDY LOAM
  - 80% SAND
  - < 20% SILT
  - < 2% CLAY
  - WELL AGED GRADED COMPOST (25% OF SOIL MIX)
  - WELL AGED, AERATED HARD-WOOD MULCH (AGED 6 MONTHS IF POSSIBLE)
 PLANT IN FALL AS A FROST PLANTING (MID-OCT OR AFTER) OR SPRING (APRIL 1ST-MAY 31ST) AS A SECOND CHOICE. DO NOT PLANT IN THE SUMMER.
- FIRST GROWING SEASON  
KEEP THE AREA CUT TO 4-6" THIS YEAR. DON'T PULL ANY WEEDS! THIS WILL DISTURB THE ROOT SYSTEMS OF THE NEARBY NATIVES TRYING TO ESTABLISH.
- SECOND GROWING SEASON  
MOW ONCE, IF NECESSARY

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 APPROVED WITH CONDITIONS  
 AS SET FORTH IN THE LETTER OF APPROVAL  
 DATED JAN 24 2013 FILE # D-0114  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
 Matthew D. Wencel



STAMP:  
 HALI BECKMAN, LTD  
 23 Brown Street, Suite 206, Wickford, RI 02892  
 Tel. 401.294.1684 - www.halibeckman.com  
 Estate Planning - Landscape Architecture



PLANTING DETAILS  
 THE STORK'S NEST CHILD ACADEMY  
 3116 SOUTH COUNTY TRAIL  
 A.P. 17, LOT 53  
 EAST GREENWICH, RHODE ISLAND

REVISION:  
 DATE: NOVEMBER 20, 2012  
 DRAWN BY: SGG  
 SCALE: NTS  
 SHEET  
**L-2**  
 SHEET NO. 11 OF 11  
 JOB NO. 372