

LOCUS MAP
NOT TO SCALE

DIG-SAFE NOTE:
THE LOCATION OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE AND SHOULD BE VERIFIED BY THE CONTRACTOR WITH THE APPROPRIATE UTILITY COMPANIES. CONTACT DIG-SAFE AT 1-888-344-7233.

SHEET INDEX:

- Civil Design Series
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 C.2.0 - Existing Conditions Plan
 C.3.0 - Dimensional Layout Plan
 C.4.0 - Soil and Erosion Control Plan
 C.4.1 - Soil and Erosion Control Details
 C.5.0 - Overall Grading & Drainage Plan
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 C.5.2 - Drainage Infiltrator Details
 C.5.3 - Drainage Basin Details I
 C.5.4 - Drainage Basin Details II
 C.6.0 - OWTS Plan
 C.6.1 - OWTS Details
 C.7.0 - RI Standard Details - I
 C.7.1 - RI Standard Details - II
 C.7.2 - RI Standard Details - III

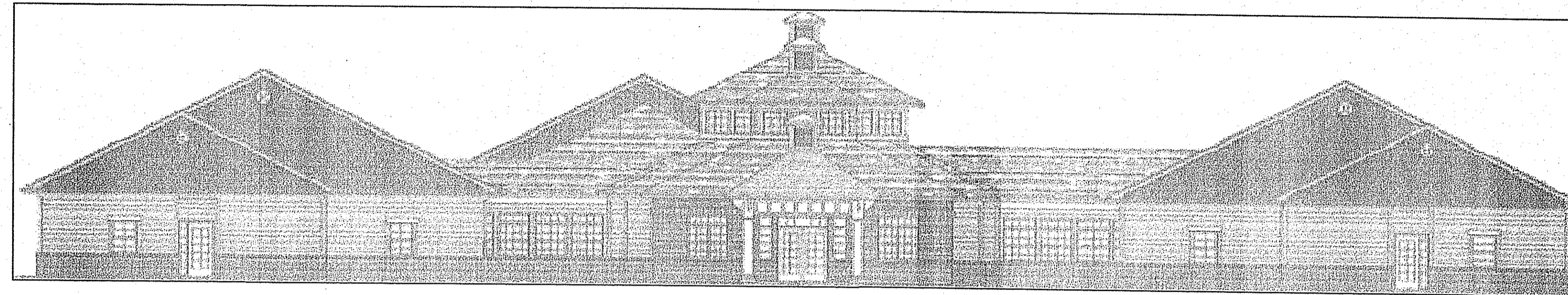
APPROVALS:

- Reference is hereby made to an approved RIDEM Wetlands Insignificant Alteration Permit for Application # 06-0451 Dated: December 14, 2006.
- Reference is hereby made to an approved RIDEM Preliminary Subdivision Suitability Determination for Application # S-11-51 Dated: April 18, 2007.
- Reference is hereby made to an approved RIDEM Wetland Edge verification 06-0336.

Notes:

- The lot is partially wooded.
- This project includes a community well and the accompanying water main and appurtenances.
- This project includes a utility corridor to include electric, telephone and cable services.
- This project includes an Onsite Wastewater Treatment System sized for a 64 bed Specialized Memory Care Community.
- This project includes provisions for collecting and treating storm waters.
- The wetland edge was flagged by EA Engineering, Science & Technology, Inc. on 10/29/2007.
- Wetland flags were located with a positional accuracy of +/- 1'.
- Basemap and physical data were field surveyed by American Engineering, Inc. on 03/08/2007, Revised on 08/17/2007.
- Basemap and physical data taken from field survey with a horizontal accuracy of +/- 1' and a vertical accuracy of +/- 1'.
- A primary access point has been selected for the site and shall be protected with a construction entrance to prevent the tracking of soils on existing roads.
- The location of all utilities shown are approximate and shall be field verified by the contractor at the time of construction.
- All disturbed areas shall be protected as necessary from erosion and siltation, in compliance with the Erosion Control Plan.
- All catch basins are to be protected using a systematic haybale protection method until such time as the area has been completely stabilized.
- All fills and trenches are to be properly compacted in lifts as necessary.

ALBION COURT of EXETER



A 64 Bed Alzheimers Care Center for Excellence

prepared for

Jade Investment Group, LLC

567 South County Trail

Suite 111

Exeter, RI 02822

located at

South County Trail

Exeter, Rhode Island

Preliminary Submission

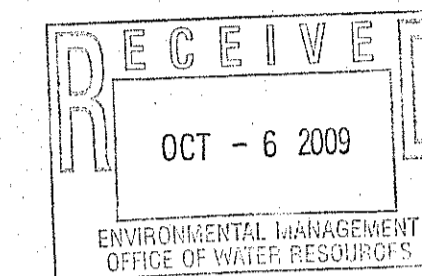
PERMIT SET

Being A.P. 71-4-3 and a portion of A.P.71-4-12

ZONING: B
 Minimum Lot Size: N/A
 Minimum Street Frontage: 150'
 Minimum Front Depth: 100'
 Minimum Side Depth: 30'
 Minimum Rear Depth: 75'

ZONING: RU-4
 Minimum Lot Size: 4 Acres
 Minimum Street Frontage: 300'
 Minimum Front Depth: 100'
 Minimum Side Depth: 80'
 Minimum Rear Depth: 50'

FEMA DETERMINATION
 ZONE "C" - AREA OF MINIMAL FLOODING
 PANEL NO. - 440032 0027 A
 REVISED - March 1, 1982



TITLE SHEET FOR
ALBION COURT of EXETER
 LOCATED AT
 South County Trail
 Exeter, Rhode Island

Drawn By: ERM	Checked By: DrC	
Scale: As Shown	Date: 7/14/2009	
REVISIONS		
NO.	REVISION	DATE
1.	TOWN, RIDOT & WETLANDS COMMENTS	ERM 10/27/09

DANIEL R. COTTA
 1919
 REGISTERED PROFESSIONAL LAND SURVEYOR

DANIEL R. COTTA
 5147
 REGISTERED PROFESSIONAL ENGINEER

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED NOV - 6 2009 FILE #
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

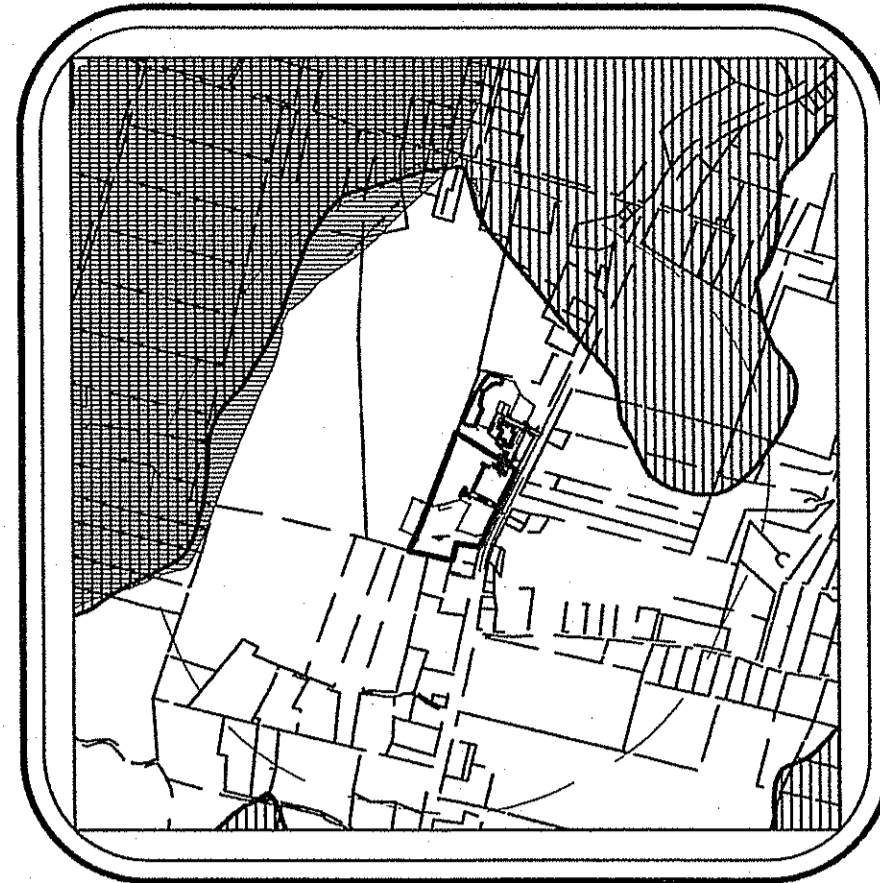
GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY THE STATE OF RHODE ISLAND AND THE MUNICIPALITY PRIOR TO COMMENCING ANY WORK. THE CONTRACTOR SHALL ALSO OBTAIN THE MOST RECENT MUNICIPAL AND RIDOT STANDARDS BEFORE PROCEEDING WITH CONSTRUCTION.
- IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND ABUTTING PROPERTIES. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE MUNICIPAL ENGINEERING DEPARTMENT AND ALL UTILITY INSTALLATIONS AND INSPECTIONS WITH THE APPROPRIATE UTILITY CO.. A 48 HOUR ADVANCE NOTICE IS REQUIRED BEFORE WORK COMMENCEMENT.
- ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY MUNICIPALITY REGULATIONS AND "RI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (REVISION OF 1971)," WITH ALL CORRECTIONS AND ADDENDA AND THE 1974 R.I. STANDARD DETAILS WITH ALL CORRECTIONS AND ADDENDA.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR QUANTITY TAKE OFF IN COMPUTING ANY ESTIMATES.
- EMBANKMENT SLOPES AND ALL DISTURBED AREAS ARE TO RECEIVE 4" OF TOPSOIL AND SEED. SEE EROSION CONTROL PROGRAM DETAILS.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION INDICATED ON THESE PLANS. THAT INCLUDES ANY CONSTRUCTION TO BRING UTILITIES TO THE SITE, ANY REPAIRS, ANY TRENCHING REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND SOIL EROSION CONTROL MEASURES.
- THE LOCATION OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE AND SHOULD BE VERIFIED BY THE CONTRACTOR WITH THE APPROPRIATE UTILITY COMPANIES. CALL DIG-SAFE (800)225-4977
- IN ALL EXCAVATION AND PLACEMENT OF FILL THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.

AMERICAN ENGINEERING, INC.
 DANIEL R. COTTA Professional Engineer/Professional Land Surveyor
 400 South County Trail - Suite A 201
 Exeter, Rhode Island 02822
 Phone (401) 294-4090 / Fax (401) 294-3625

Per RIDEM,
 Sheet 1 of 19
C.0.0
 of 1 sheets
 Drawing No. _____
 Dr. _____ Sh. _____

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LOCUS MAP
NOT TO SCALE

Subdivision Plan FOR ALBION COURT of EXETER

Being A.P. 71-4-3 and a portion of A.P.71-4-12
Area of Proposed Development = 19.38 Acres

Owner / Applicant:
(AP 71-4-3)
Jade Investment Group, LLC
567 South County Trail
Suite 111
Exeter, RI 02822

Owner:
(AP 71-4-12)
Lena Novo, Trustee
110 Mail Road
Exeter, RI 02822

ZONING: B
Minimum Lot Size: N/A
Minimum Street Frontage: 150'
Minimum Front Depth: 100'
Minimum Side Depth: 30'
Minimum Rear Depth: 75'

ZONING: RU-4
Minimum Lot Size: 4 Acres
Minimum Street Frontage: 300'
Minimum Front Depth: 100'
Minimum Side Depth: 80'
Minimum Rear Depth: 50'

Notes:
1. The lot is partially wooded.
2. A portion of AP 71-4-12 lies within the Groundwater Overlay District and within the Natural Heritage Area. No area proposed for development fall within these zones.

APPROVALS
1. Reference is hereby made to an approved RIDEM Wetlands Insignificant Alteration Permit for Application # 06-0451 Dated: December 14, 2006.
2. Reference is hereby made to an approved RIDEM Preliminary Subdivision Suitability Determination for Application # S 11-51 Dated: April 18, 2007.
3. Reference is hereby made to an approved RIDEM Wetland Edge verification 06-0336.

LEGEND

- ANGLE POINT
- RI HIGHWAY BOUND FOUND
- UTILITY POLE FOUND
- 5/8" IRON ROD w/CAP SET
- DRILLHOLE FOUND
- STONEWALL FOUND
- TREELINE/ EDGE OF LANDSCAPING

REFERENCES:

- Reference is hereby made to that certain Deed as recorded in the Clerk's Office in the Town Hall of the Town of Exeter in Land Evidence Book/Page 0160/0234.
- Reference is hereby made to that certain Deed as recorded in the Clerk's Office in the Town Hall of the Town of Exeter in Land Evidence Book/Page 90/35.
- Reference is hereby made to that certain plan entitled "PLAN OF LAND FOR TUPELO INVESTMENT GROUP, LLC LOCATED AT SOUTH COUNTY TRAIL - RTE. #2 EXETER, R.I. SCALE 1" = 100' DATE: 6/30/2000 AMERICAN ENGINEERING DANIEL R. COTTA" said plan being recorded on November 9, 2000 in the Clerk's Office in the Town Hall of the Town of Exeter as Map #345.
- Reference is hereby made to that certain plan entitled "PLAN OF LAND FOR TUPELO INVESTMENT GROUP, LLC LOCATED AT SOUTH COUNTY TRAIL - RTE. #2 EXETER, R.I. SCALE 1" = 100' DATE: 6/30/2000 AMERICAN ENGINEERING DANIEL R. COTTA" Revised 12/11/00 and Revised 07/09/01" said plan being recorded on December 6, 2001 in the Clerk's Office in the Town Hall of the Town of Exeter as Map #360.
- Reference is hereby made to that certain plan entitled "GEORGE JARVIS SR. EXETER, RHODE ISLAND MAP OF LAND LOCATED IN THE TOWN OF EXETER WASHINGTON COUNTY STATE OF RHODE ISLAND BY RAYMOND W. SCHWAB ASSOCIATES REVISED 11/9/71" said plan being recorded in the Town of Exeter Land Evidence Book/Page 31/69.
- Reference is hereby made to RHODE ISLAND HIGHWAY PLAT #344.

Plan Purpose

The purpose of this plan is to show the combined Lot "C" with Lot "B", as a new lot.
Lot "A" being the remaining portion of A.P. 71-4-3 and Lot "D" being the remaining portion of A.P.71-4-12.
A chart of explanation follows:

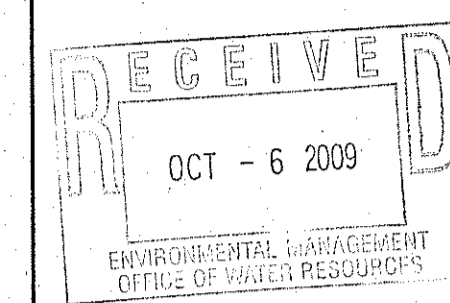
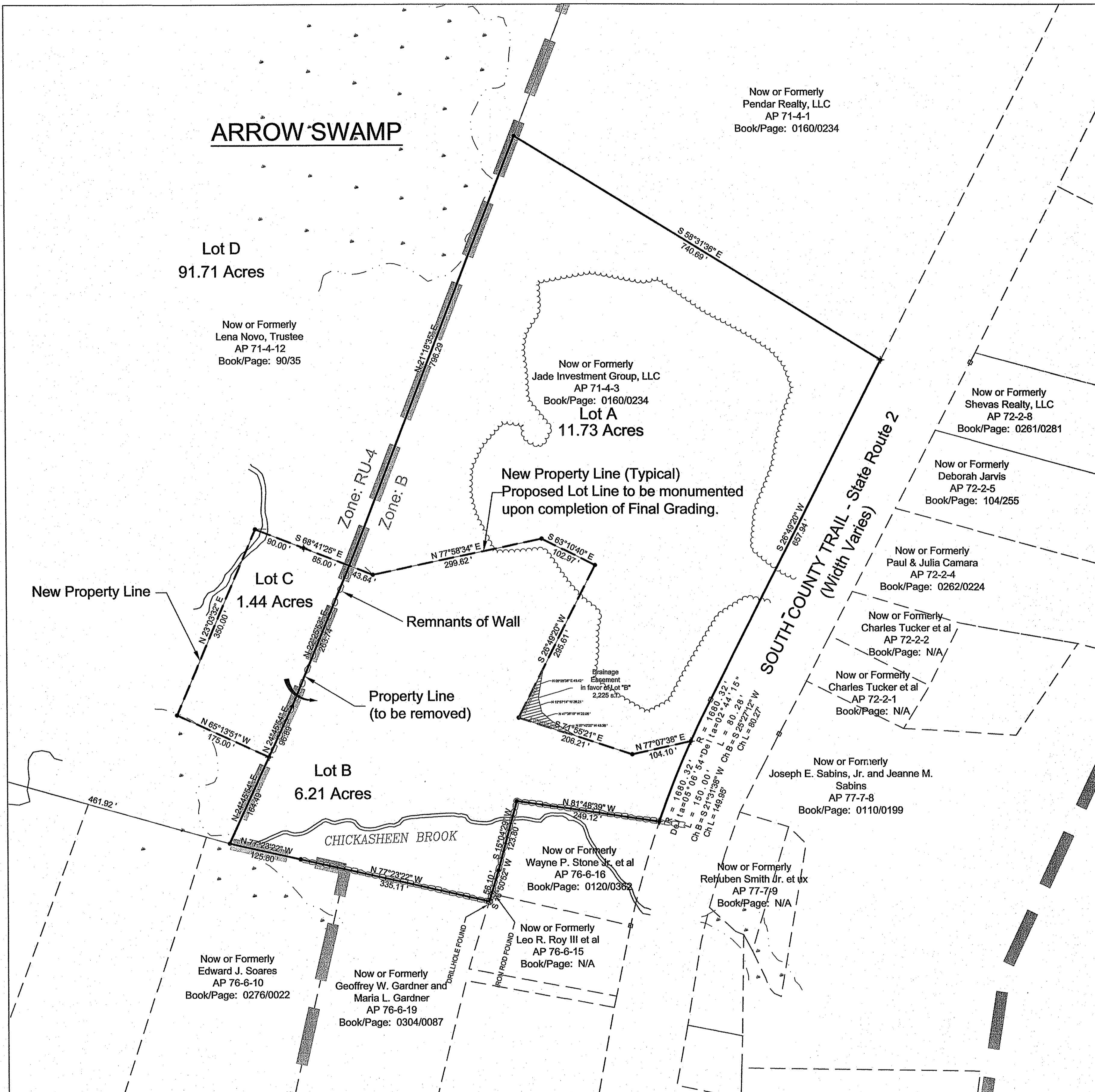
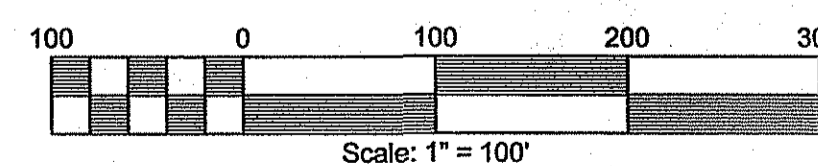
Existing Areas
Area of A.P. 71-4-3 = 17.94 Acres
Area of A.P.71-4-12 = 93.15 Acres
Total Area = 111.09 Acres

Proposed Areas
New Lot (B & C) = 7.65 Acres
Remainder of A.P. 71-4-3 (Lot A) = 11.73 Acres
Remainder of A.P. 71-4-12 (Lot D) = 91.71 Acres
Total Area = 111.09 Acres

THE PERIMETER SURVEY AND PLAN OF LOTS "A", "B" AND "C" CONFORMS TO A CLASS I STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

BY: *[Signature]*
REGISTERED PROFESSIONAL LAND SURVEYOR

DATE: 10/2/09

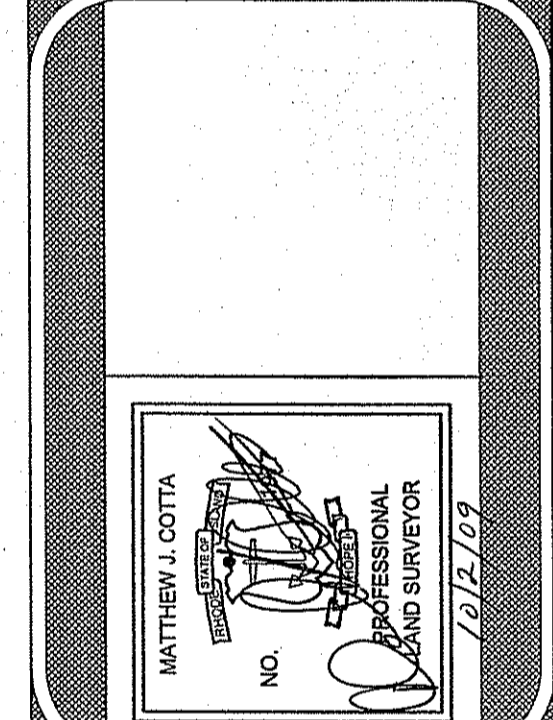


Subdivision Plan
FOR
ALBION COURT of EXETER
LOCATED AT
South County Trail
Exeter, Rhode Island

Checked By: DrC
Date: 7/14/2009

NO.	REVISION	BY	DATE
1.	TOWN, RDOT & WETLANDS COMMENTS	ERM	8/27/09

Scale: 1" = 100'



AMERICAN ENGINEERING, INC.
DANIEL R. COTTA, Professional Engineer / Professional Land Surveyor
400 South County Trail - Suite A 201
Exeter, Rhode Island 02822
Phone (401) 294-4090 / Fax (401) 294-3625

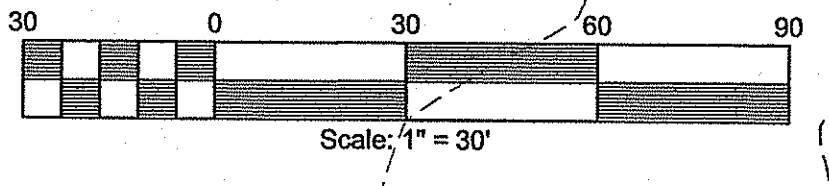
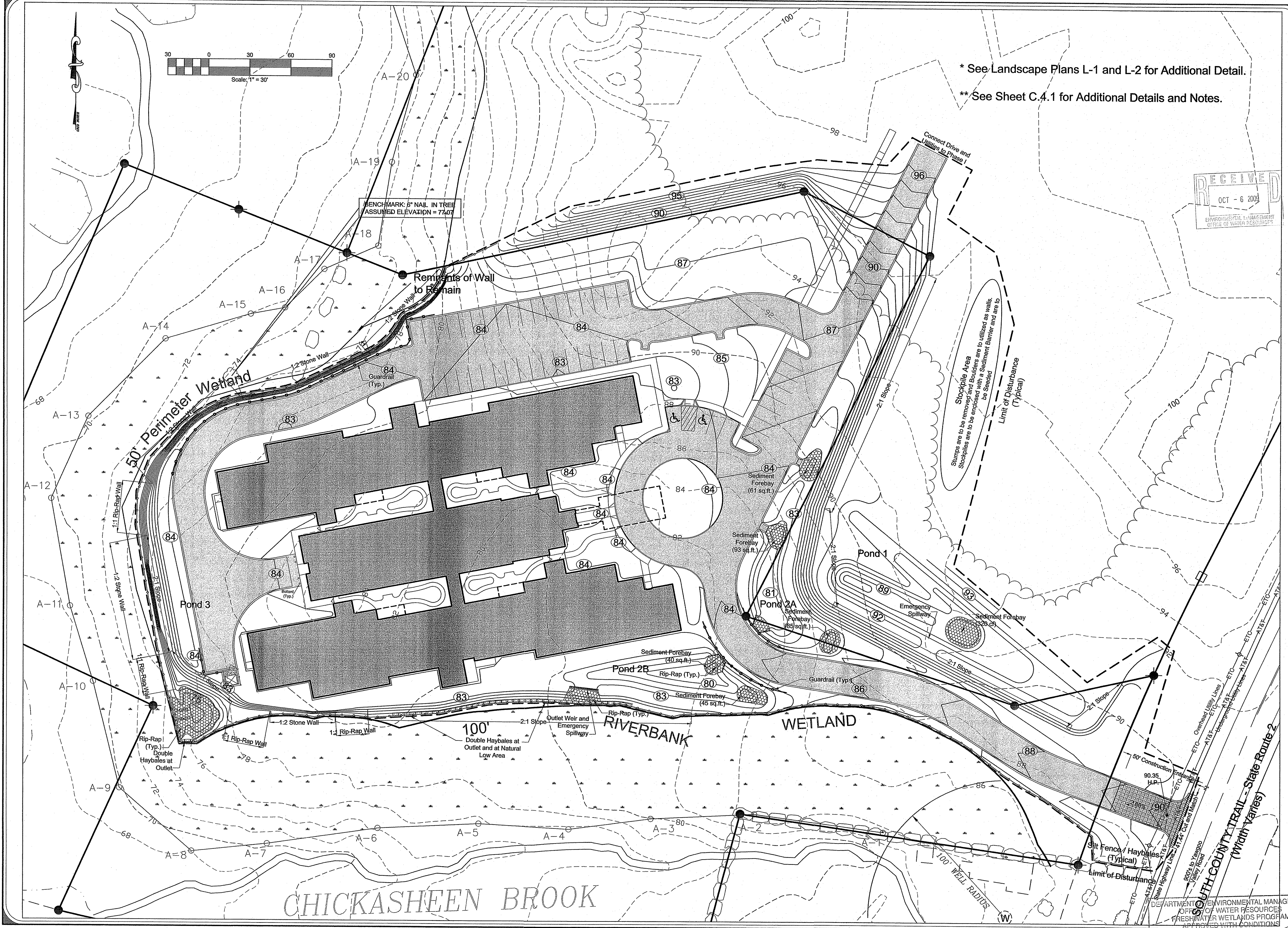
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV - 6 2009 FILE #
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

THIS PLAN IS TO BE INDEXED
UNDER THE FOLLOWING ROADS:
1. South County Trail

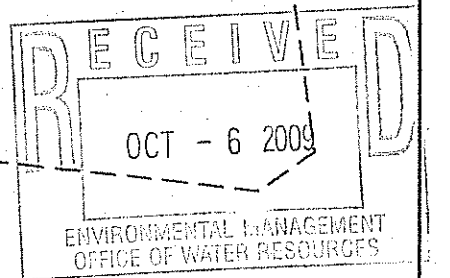
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C.1.0
of 1 sheets
Drawing No. _____
Dr. _____ Sh. _____

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Z:\DWG\109\101\108\101.dwg, C:4.0 SOIL AND EROSION CONTROL PLAN, 10/12/09 9:20:47 AM



* See Landscape Plans L-1 and L-2 for Additional Detail.
** See Sheet C.4.1 for Additional Details and Notes.



Soil and Erosion Control Plan
FOR
ALBION COURT OF EXETER
LOCATED AT
South County Trail
Exeter, Rhode Island

Drawn By: ERM	Checked By: Drc	
Scale: 1" = 30'	Date: 7/14/2009	
REVISIONS:		
NO.	REVISION	DATE
1.	TOWN, ROAD & WETLANDS COMMENTS ERM 10/27/09	

DANIEL R. COTTA
Professional Engineer
No. 5147
7/21/07

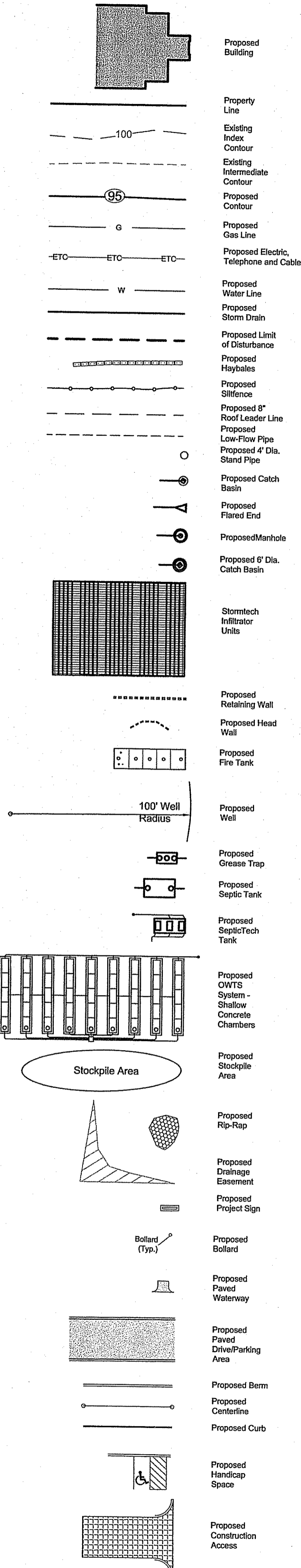
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400 South County Trail - Suite A 201
Exeter, Rhode Island 02822
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Sheet 5 of 14
C.4.0
1 sheets

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
AS APPROVED WITH CONDITIONS

AS SPECIFIED BY THE LETTERS OF APPROVAL
DATED **NOV - 6 2009** FILE #
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

General Legend



EROSION CONTROL & SOIL STABILIZATION PROGRAM

1. DENUDED 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 SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION PERIOD.
3. THE TOPSOIL 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.L. STANDARD SPECIFICATION M. 2A.
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 FLAT OR SLOPES LESS THAN 3:1

MIXTURE	% BY WT.	SEEDING DATES
RED FESCUE	75	APRIL 1 - JUNE 15
KENTUCKY BLUEGRASS	15	AUG. 15 - OCT. 15
COLONIAL BENTGRASS	5	
PERENNIAL RYEGRASS	5	
 - B - UNMOWED AREA OR INFREQUENTLY MOWED: FLAT OR SLOPES GREATER THAN 3:1

MIXTURE	% BY WT.	SEEDING DATES
RED FESCUE	75	APRIL 1 - JUNE 15
PERENNIAL RYEGRASS	5	AUG. 15 - OCT. 15
COLONIAL BENTGRASS	5	
PERENNIAL RYEGRASS	15	
6. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURAP, JUTE, FIBERGLASS NETTING, EXCELISOR 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 3000-4000 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 BE USED TO HELP MINIMIZE EROSION. A TEMPORARY SEEDING GUIDE MUST BE INCLUDED AS A REFERENCE. THE FOLLOWING SPECIES ARE RECOMMENDED:

SPECIES	LBS/ACRE	LBS/1,000 SQ. FT.	SEEDING DATES
ANNUAL RYEGRASS	60	1.5	MAR. 15 - JUNE 15
PERENNIAL RYEGRASS	40	1.0	MAY 15 - AUGUST 15
MILLET	40	1.0	MAY 15 - AUGUST 15
WINTER RYE	120	3.0	AUGUST 15 - JUNE 15
OLDS	120	3.0	MAR. 15 - JUNE 15
WEEDING LOVEGRASS	20	0.5	MAY 1 - JUNE 30
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 1ST THRU OCT. 15TH.
11. ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE R.I.D.P.W. STANDARD 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 OR WETLANDS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES SHALL ALSO BE SEEDED 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.

MAINTENANCE AND RESPONSIBILITY

1. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE THE SOLE RESPONSIBILITY FOR THE DESIGN IMPLEMENTATION. HE SHALL ALSO BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION WORKERS AND SUB-CONTRACTORS ARE AWARE OF THE PROVISIONS OF THE PLAN AND THE ENGINEER'S REPORT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ASPECTS OF THE DESIGN PRIOR TO FINAL APPROVAL BY THE TOWN. DURING THAT TIME, ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHOULD BE INSPECTED ANNUALLY, AS WELL AS AFTER EACH SIGNIFICANT RAINFALL. ALL SUCH MEASURES SHOULD BE CLEANED OR REPLACED AS NECESSARY.
3. REPLANTING, REGRADING OR OTHER REPAIRS NEEDED AS A RESULT OF EROSION AND SEDIMENTATION SHOULD BE DONE PROMPTLY.
4. ALL VEGETATION NOT SURVIVING AT LEAST ONE FULL GROWING SEASON SHALL BE REPLACED AT THE OWNERS EXPENSE.
5. UPON PROJECT COMPLETION, THE SITE OWNER SHALL ADHERE TO THE FOLLOWING MAINTENANCE RECOMMENDATIONS:
 - A. MOWING:
 - THE MOWING OF GRASS IN AND AROUND THE BASIN SHOULD BE DONE AT LEAST ONCE PER GROWING SEASON, PREFERABLY AFTER AUGUST 15 TO PROTECT GROUND NESTING BIRDS AND OTHER ANIMALS. MORE FREQUENT MOWINGS WILL BE REQUIRED FOR BASINS MAINTAINED AS RECREATIONAL OR OPEN SPACE FACILITIES. TRASH AND LITTER MUST BE REMOVED DURING MOWING OPERATIONS.
 - B. INSPECTIONS:
 - THE STRUCTURAL INTEGRITY OF THE BASIN, ESPECIALLY ANY IMPOUNDING STRUCTURES, SHOULD BE INSPECTED ON AN ANNUAL BASIS. IN ADDITION, THE INLETS FOR THE BASIN SHOULD ALSO BE INSPECTED ANNUALLY. ANY DEFICIENCIES MUST BE CORRECTED IMMEDIATELY AFTER OBSERVATION. THE BASIN AND ALL STRUCTURES SHOULD BE INSPECTED MORE OFTEN DURING THE FIRST YEAR OF OPERATION, ESPECIALLY AFTER LARGE STORMS, TO ENSURE PROPER STABILIZATION AND FUNCTION.
 - EMBANKMENT SUBSIDENCE
 - EROSION
 - CRACKING
 - TREE GROWTH
 - OUTLET & SPILLWAY CONDITION
 - SEDIMENT ACCUMULATION
 - SLOPE STABILITY

ANY DEFICIENCY NOTED DURING THE INSPECTION WILL BE IMMEDIATELY REPAIRED OR REPLACED. IF ENCOUNTERED, TRASH, DEBRIS, ETC. SHOULD BE REMOVED FROM THE DRAINAGE SYSTEM AT LEAST TWICE A YEAR.

RESEEDING OF ANY ERODED OR BARE SPOTS IN OR AROUND THE BASIN MUST BE DONE IMMEDIATELY FOLLOWING EXAMINATIONS TO PREVENT SUBSEQUENT SOIL EROSION, MAINTAINING A FULLY VEGETATED BASIN WITH HEALTHY GRASS IS PARAMOUNT TO A SUCCESSFULLY OPERATING FACILITY.

C. SEDIMENT REMOVAL:

FOLLOWING CONSTRUCTION, THE POND AND BASIN ARE TO BE CLEANED OF ACCUMULATED SEDIMENT ONCE EVERY TEN YEARS. THE RESULTING POND CONDITION AFTER SEDIMENT REMOVAL MUST BE THE ORIGINAL DESIGN CONDITIONS.

ALL REMOVED SEDIMENT IS TO BE TESTED TO DETERMINE POLLUTANT CONTENT. THE SEDIMENT IS TO BE PROPERLY DISPOSED IN UPLAND AREAS BASED UPON THE TEST RESULTS AND LOCAL, STATE AND FEDERAL REGULATIONS.

D. CATCH BASINS, MANHOLES AND DRAIN LINES:

AN INSPECTION MUST OCCUR ON AN ANNUAL BASIS BY QUALIFIED PERSONNEL TO ENSURE PROPER OPERATION. THE INSPECTION SHOULD, AS A MINIMUM, CONCENTRATE ON THE FOLLOWING:

- DAMAGE TO GRATE/OVER
- EVIDENCE OF STANDING WATER
- DEBRIS REMOVAL
- STRUCTURAL ALIGNMENT/INTEGRITY

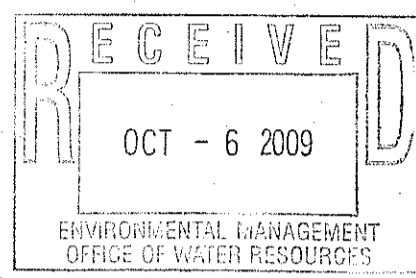
ANY DEFICIENCY NOTED DURING THE INSPECTION WILL BE IMMEDIATELY REPAIRED OR REPLACED.

SEDIMENTATION CONTROL PROGRAM

1. ALL DISTURBED AREAS SUBJECT TO EROSION TENDENCIES WHETHER THEY ARE NEWLY FILLED OR EXCAVATED SHALL RECEIVE SUITABLE SLOPE PROTECTION.
2. DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
3. CARE SHALL BE TAKEN SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING EITHER EXISTING OR PROPOSED DRAINAGE OR SEWER STRUCTURES.
4. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED PERIODICALLY AND AFTER PERIODS OF RAINFALL. SUCH DEVICES SHALL BE REPAIRED OR REPLACED AS NEEDED.
5. CARE SHALL BE TAKEN SO AS 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 "RHODE ISLAND EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE, 1989, WITH ANY AMENDMENTS, AS A GUIDE.

ORDER OF PROCEDURE

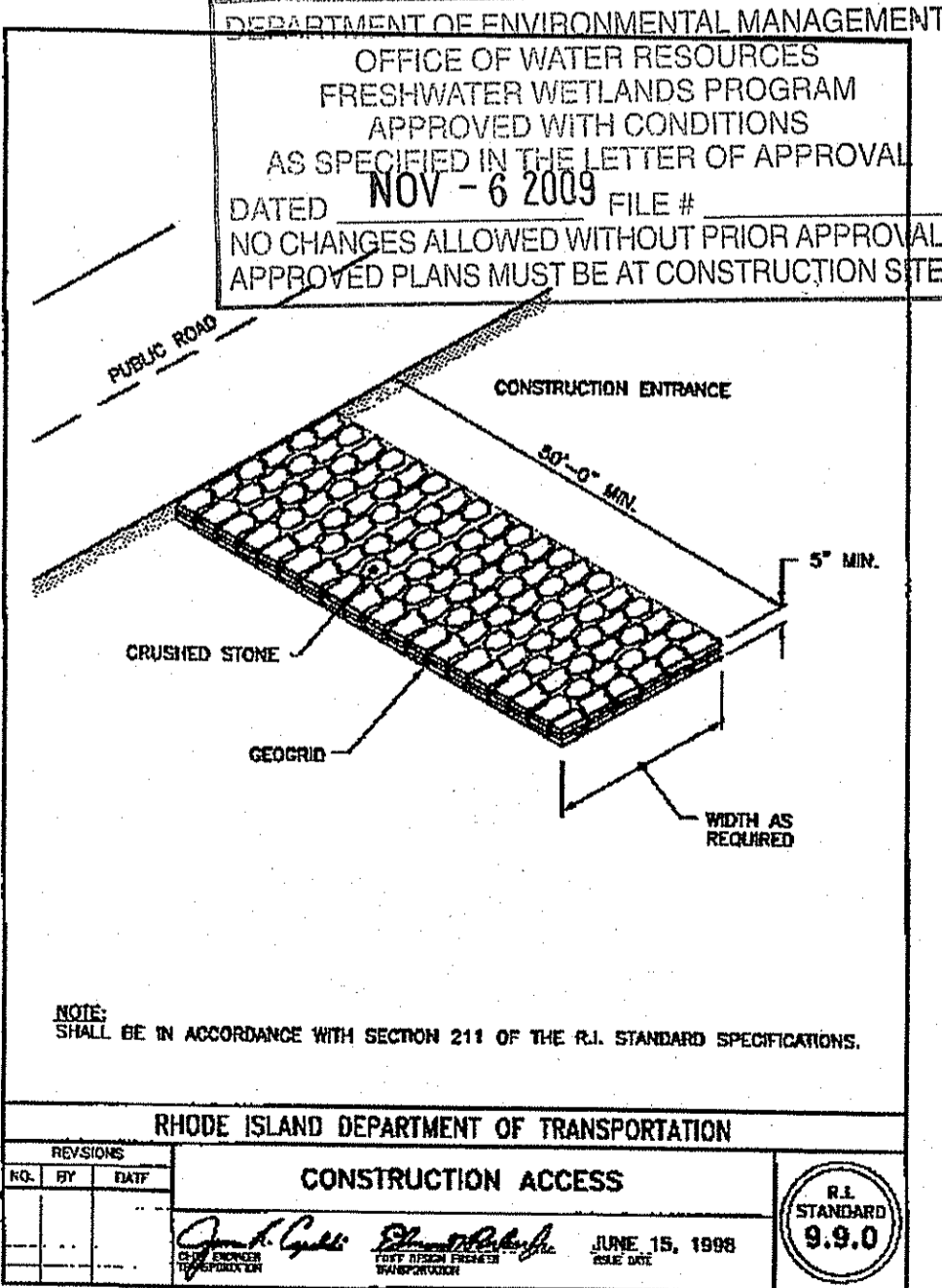
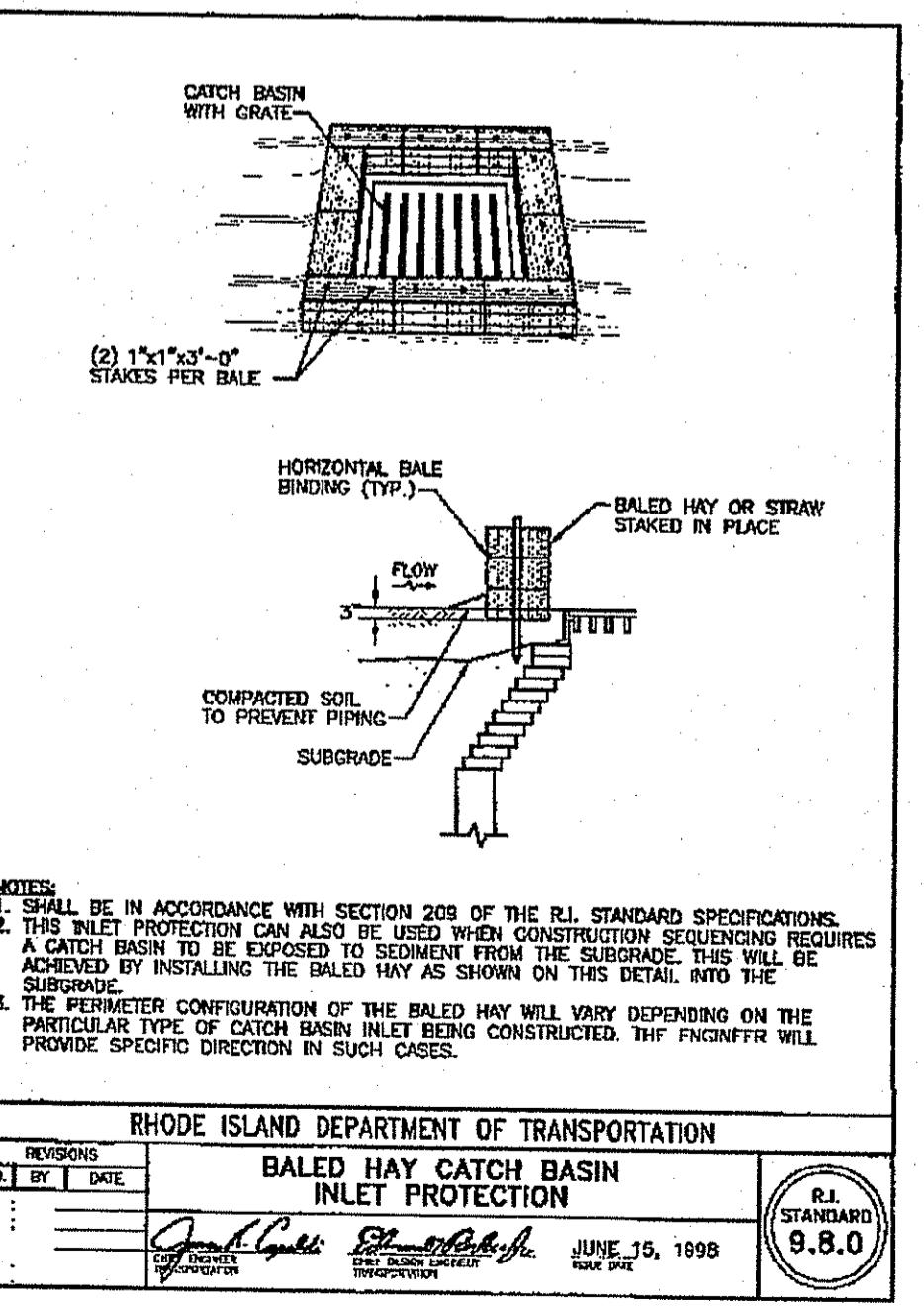
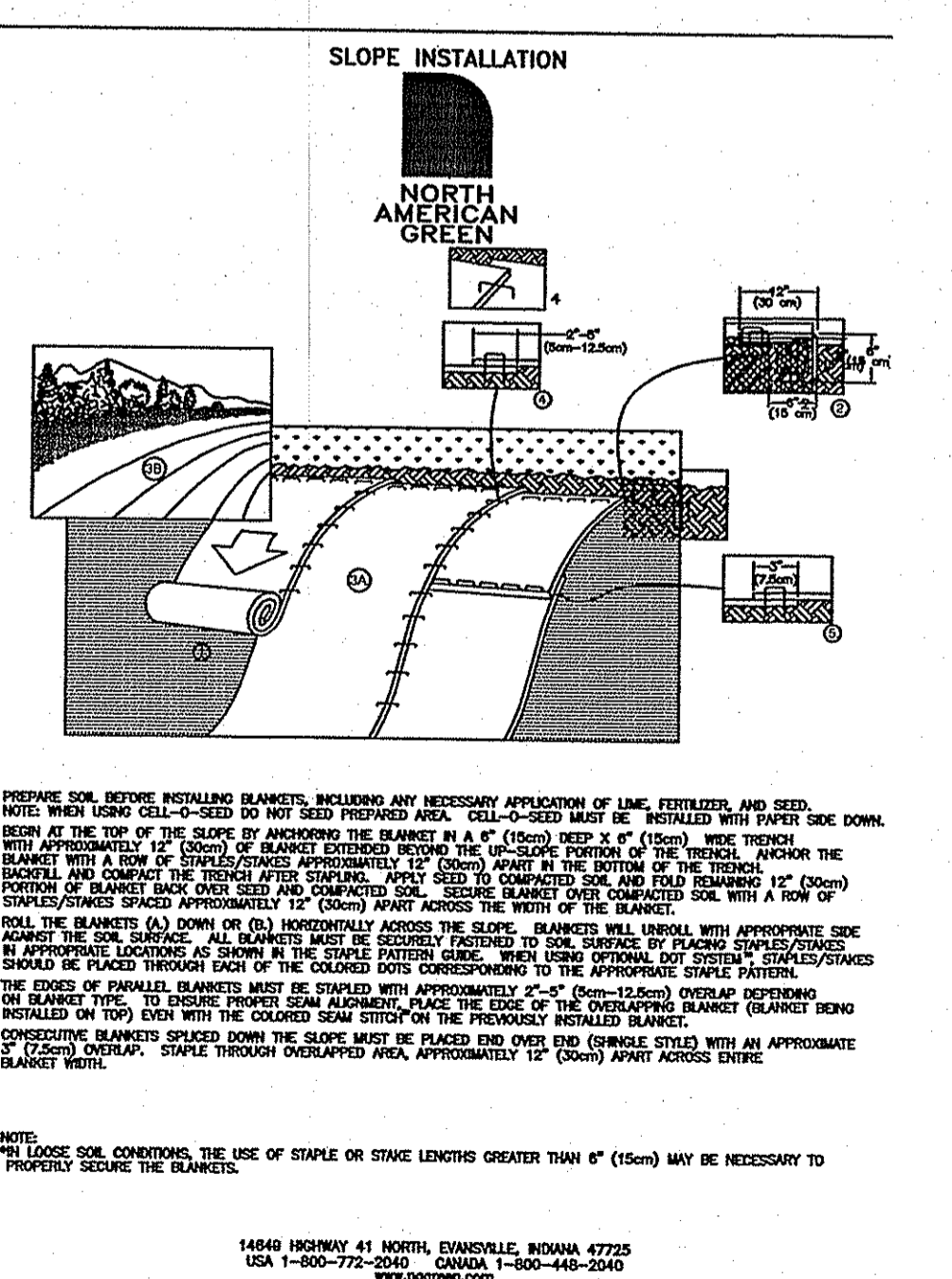
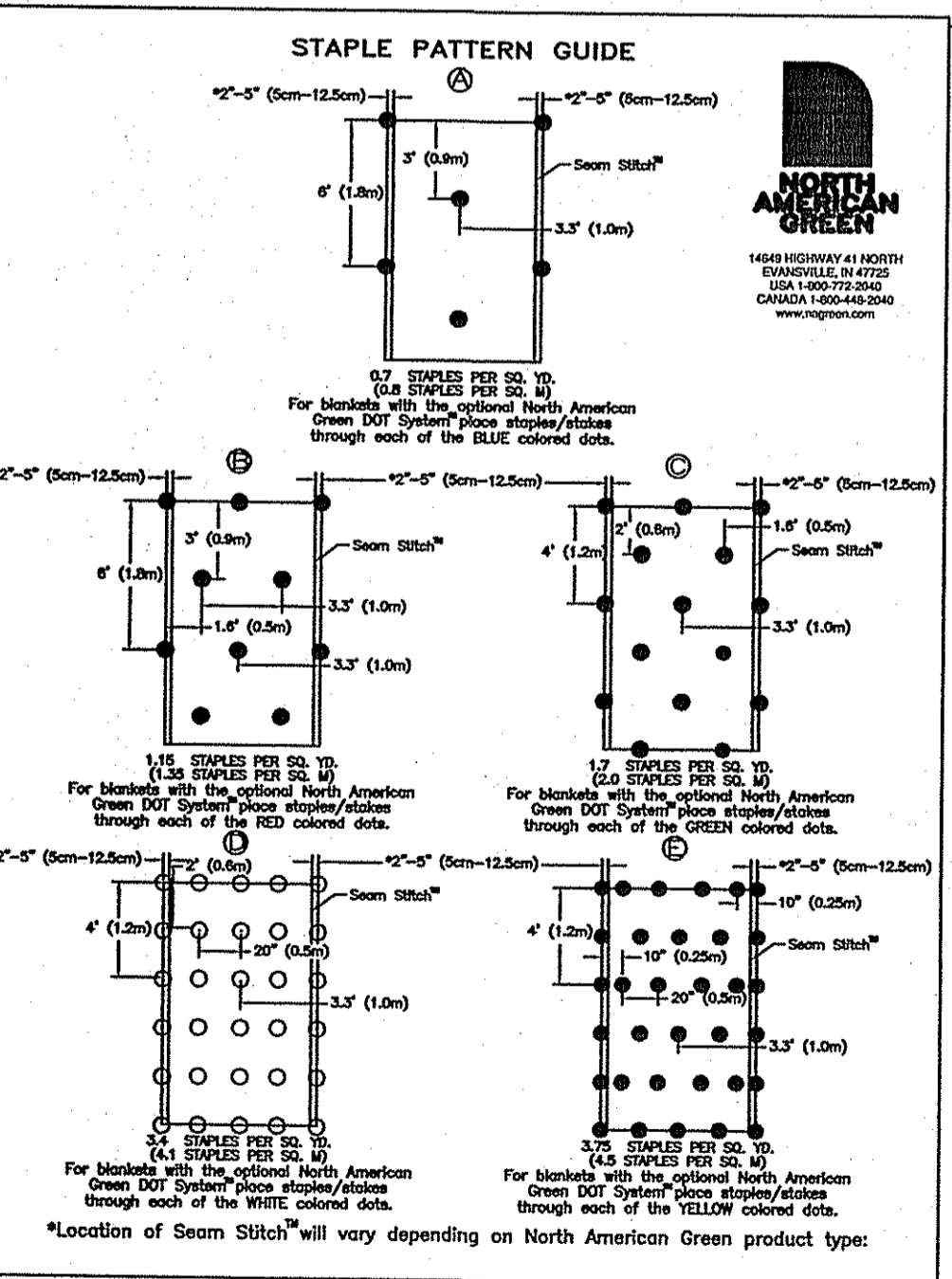
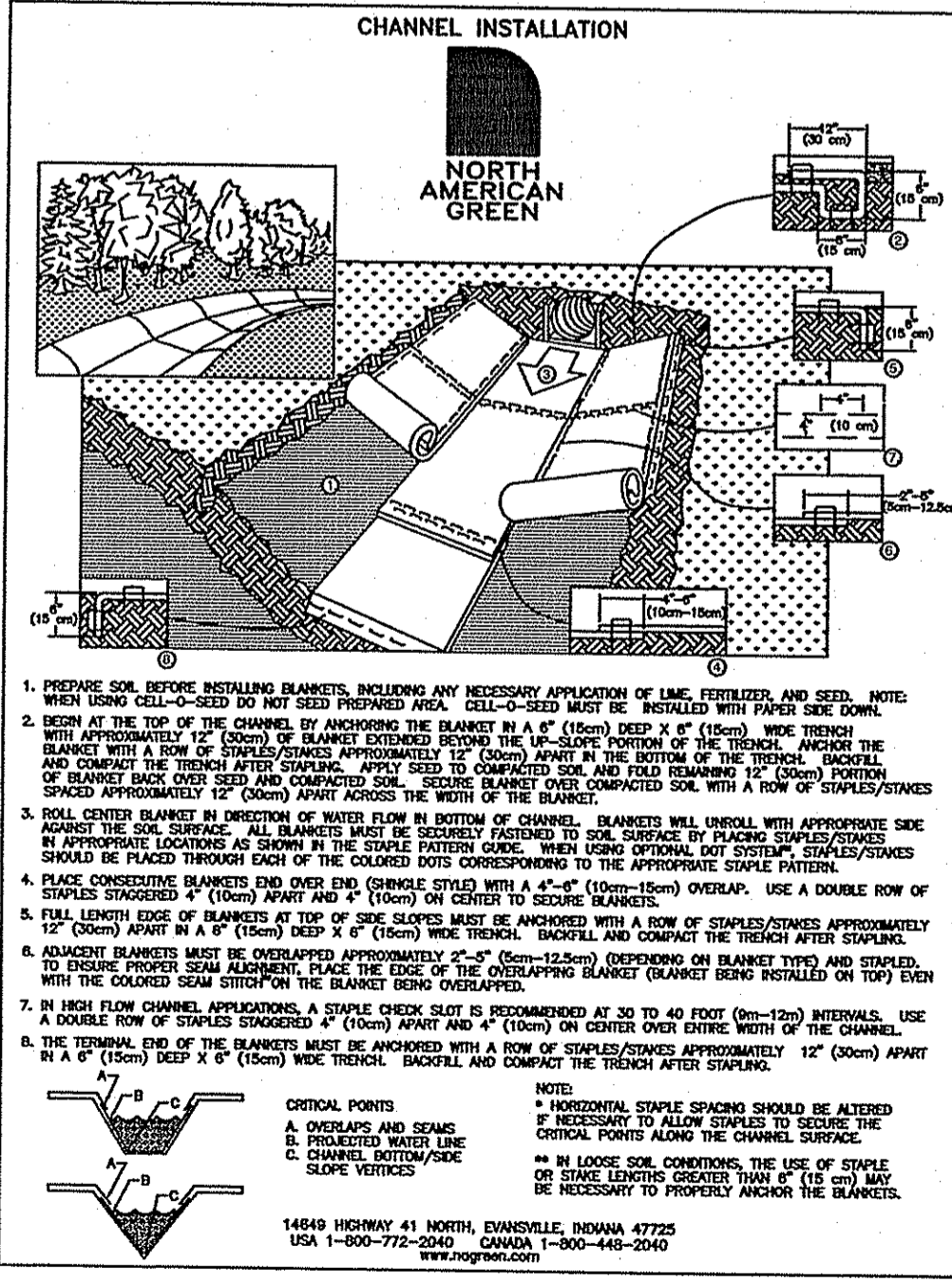
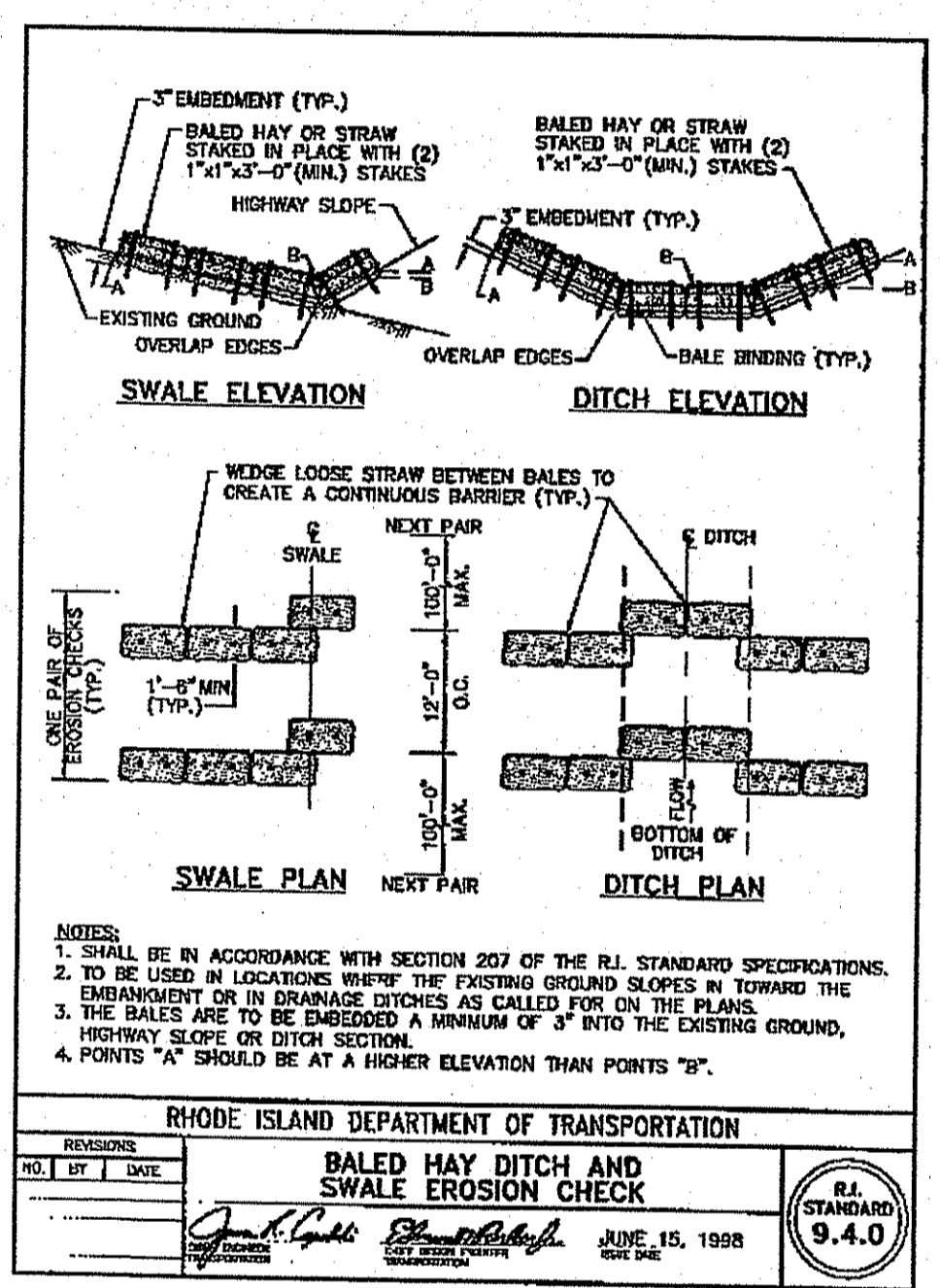
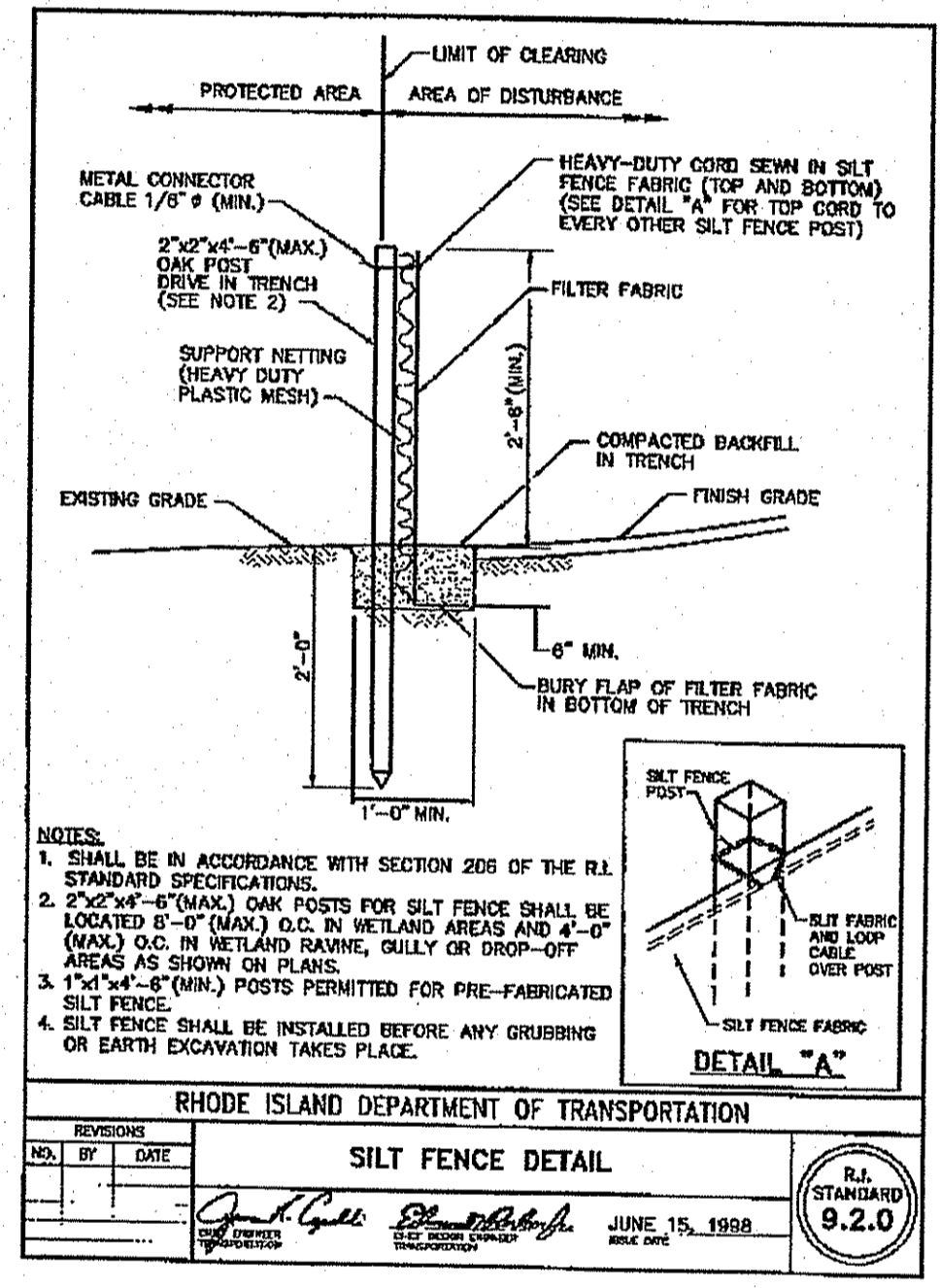
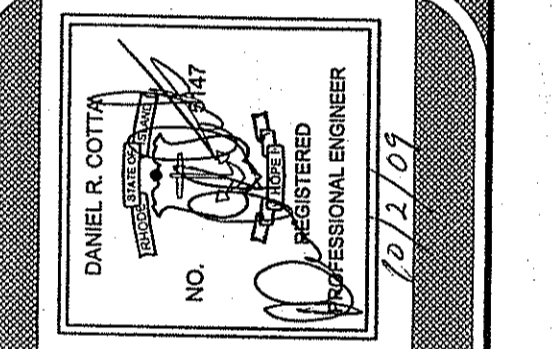
1. IMMEDIATELY UPON COMPLETION OF THE CLEARING AND GRUBBING OPERATION AND PRIOR TO ANY GRADING, TEMPORARY HAYBALES, SILTFENCE OR SANDBAGS SHALL BE PLACED OUTSIDE THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS. (I.E. ALONG NEW ROADWAYS, STREAMBANKS, CRITICAL AREAS, ETC.)
 2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PERIODICALLY CLEANED AND MAINTAINED AS PER THE RESPECTIVE PROGRAMS DURING THE CONSTRUCTION OR AS DIRECTED BY THE TOWN OR BY THE ENGINEER.
 3. IF WORK PROGRESS IS TO BE INTERRUPTED AT ANY TIME, REFERENCE EROSION AND SEDIMENTATION CONTROL PROGRAMS FOR TEMPORARY CONTROL.
- Drain Note:
1. All drains within 50' of the OWTS system shall be either above the water table or watertight and bedded in sand or bank run gravel.



Soil and Erosion Control Details
FOR
ALBION COURT OF EXETER
LOCATED AT
South County Trail
Exeter, Rhode Island

Checked By: ERM
Date: 7/14/2009
Scale: As Shown

NO.	REVISION	DATE
1.	TOWN, RIDD & WETLANDS COMMENTS	ERM 10/27/09



AMERICAN ENGINEERING, INC.
DANIEL R. COTTA Professional Engineer / Professional Land Surveyor
400 South County Trail - Suite A 201
Exeter, Rhode Island 02822
Phone (401) 294-4090 / Fax (401) 294-3625

Sheet 6 of 19
C.4.1
of 1 sheets
Drawing No. _____
Dr. _____ Sh. _____

Z:\DWG\109101109101.dwg, C.4.1 SOIL AND EROSION CONTROL DETAILS, 10/12/2009 9:20:13 AM

ALBION CENTER * STORM DRAIN PIPE DATA						
FROM	TO	PIPE SIZE (In.)	LENGTH (FL)	SLOPE (F/L)	INVERTS	
					UPPER END	LOWER END
LINE "A"						
CB1	CB2	12	20.00	0.0100	83.77	83.57
CB2	CB3	12	85.00	0.0208	83.57	81.74
CB3	CB4	12	55.00	0.0100	81.74	81.19
CB4	CB5	12	66.00	0.0155	81.19	80.17
CB5	MH6	15	104.00	0.0100	79.92	78.88
MH6	CB6	15	100.00	0.0100	78.88	77.88
CB6	MH7	15	58.00	0.0100	77.88	77.30
MH7	CB7	15	80.00	0.0100	77.30	76.50
LINE "B"						
CB9	CB10	12	60.00	0.0100	80.29	79.69
CB10	CB11	12	49.00	0.0100	79.69	79.20
CB11	MH10	12	94.00	0.0100	79.20	78.26
MH10	MH11	12	81.00	0.0100	78.26	77.45
MH11	CB7	12	93.00	0.0102	77.45	76.00
CB7	Infiltrator	24	2.00	0.0000	76.00	76.00
LINE "C"						
CB12	CB13	12	49.00	0.0100	79.69	79.20
CB13	MH12	12	94.00	0.0100	79.20	78.26
MH12	MH13	12	81.00	0.0100	78.26	77.45
MH13	CB8	12	93.00	0.0102	77.45	76.50
CB8	Infiltrator	24	2.00	0.0000	76.00	76.00

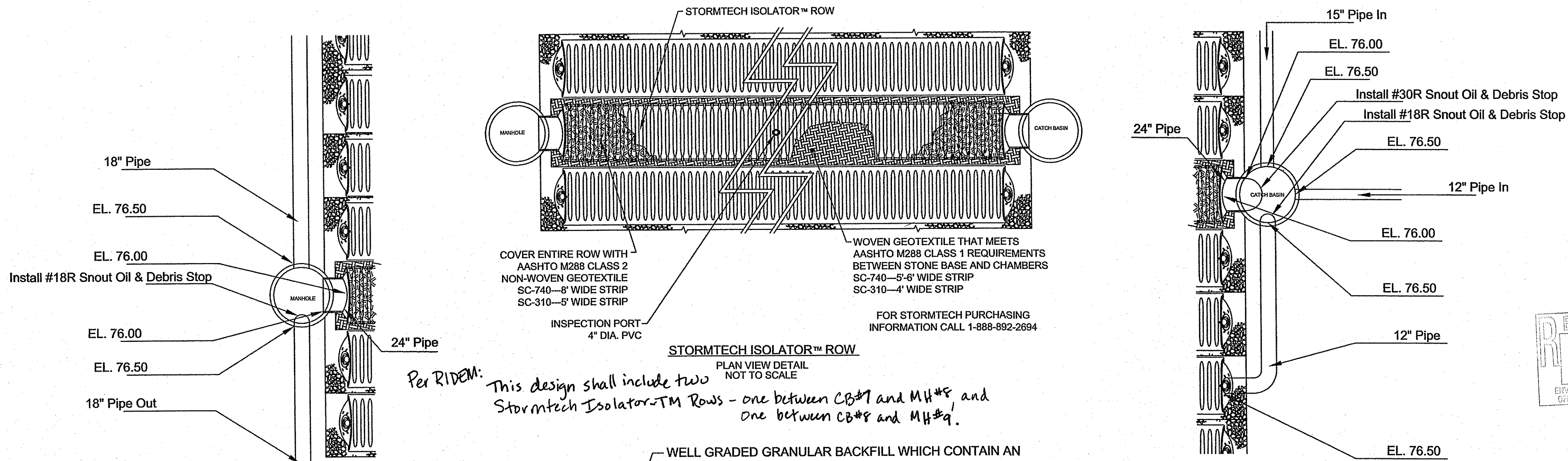
ALBION CENTER * STORM DRAIN PIPE DATA						
FROM	TO	PIPE SIZE (In.)	LENGTH (FL)	SLOPE (F/L)	INVERTS	
					UPPER END	LOWER END
LINE "D"						
MH1	MH2	15	39.00	0.0100	81.39	81.00
MH2	MH3	15	137.00	0.0100	81.00	79.63
MH3	MH4	15	137.00	0.0100	79.63	78.26
MH4	MH5	18	123.00	0.0100	78.01	76.78
MH5	FE2	18	96.00	0.0100	76.78	75.82
LINE "E"						
CB14	CB15	12	20.00	0.0100	84.25	84.05
CB15	FE3	12	155.00	0.0100	84.05	82.50
LINE "F"						
MH8	MH9	18	48.00	0.0000	76.50	76.50
MH9	FE1	18	46.00	0.0100	76.50	76.04
LINE "Crossing Road"						
CB16	CB17	18	20.00	0.0100	80.78	80.57
COURTYARD DRAIN LINES						
YD 10B	YD 10A	8	36.00	0.0100	78.70	78.34
YD 10A	MH10	8	8.00	0.0100	78.34	78.26
YD 11B	YD 11A	8	37.00	0.0100	77.92	77.55
YD 11A	MH11	8	10.00	0.0100	77.55	77.45
YD 12B	YD 12A	8	36.00	0.0100	78.70	78.34
YD 12A	MH12	8	8.00	0.0100	78.34	78.26
YD 13B	YD 13A	8	37.00	0.0100	77.92	77.55
YD 13A	MH13	8	10.00	0.0100	77.55	77.45
ROOF LEADERS MAIN LINE						
Roof Leaders	CB8	8	384.00	0.0100	82.00	78.16

Proposed Drainage Structure Chart

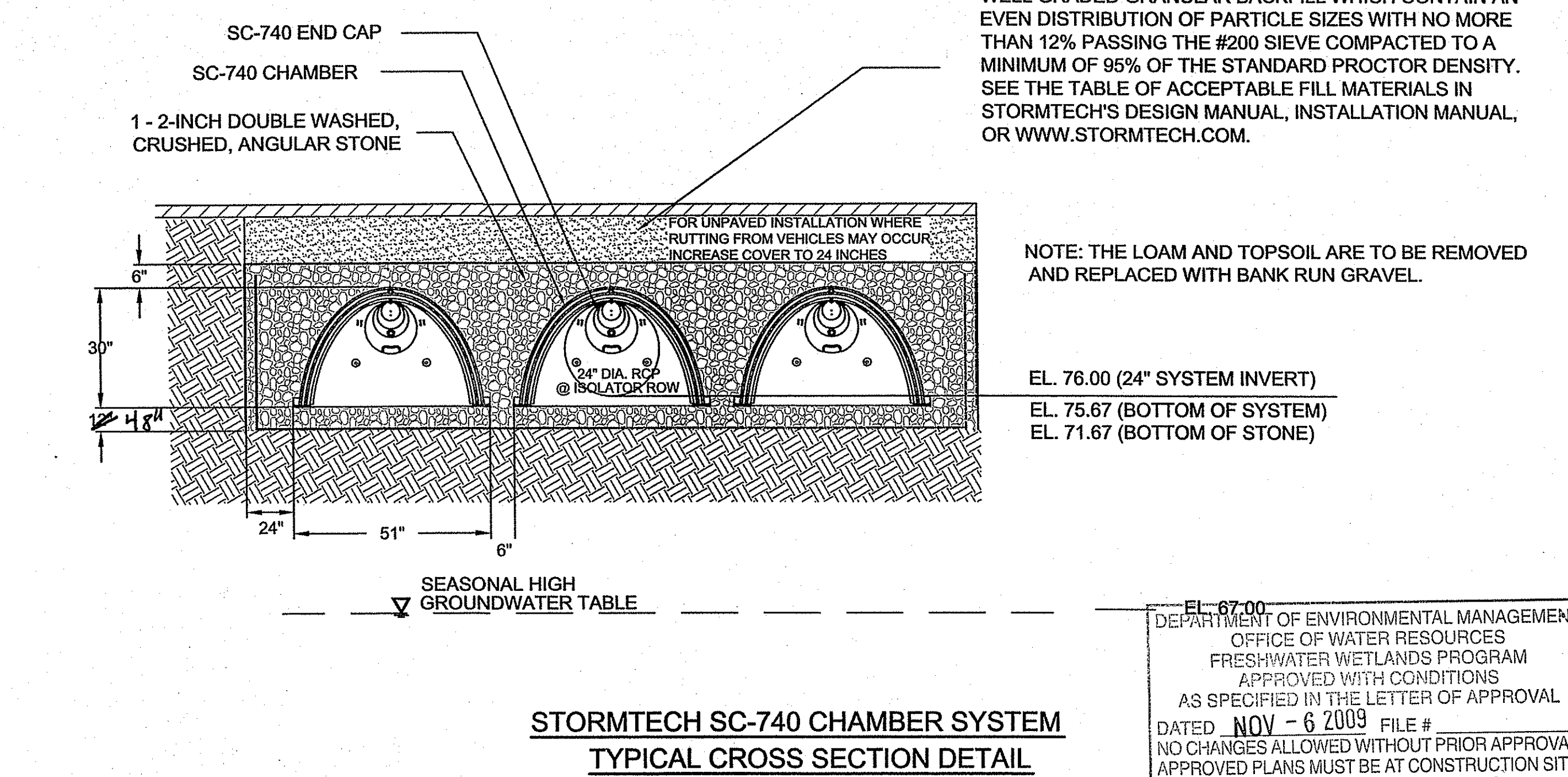
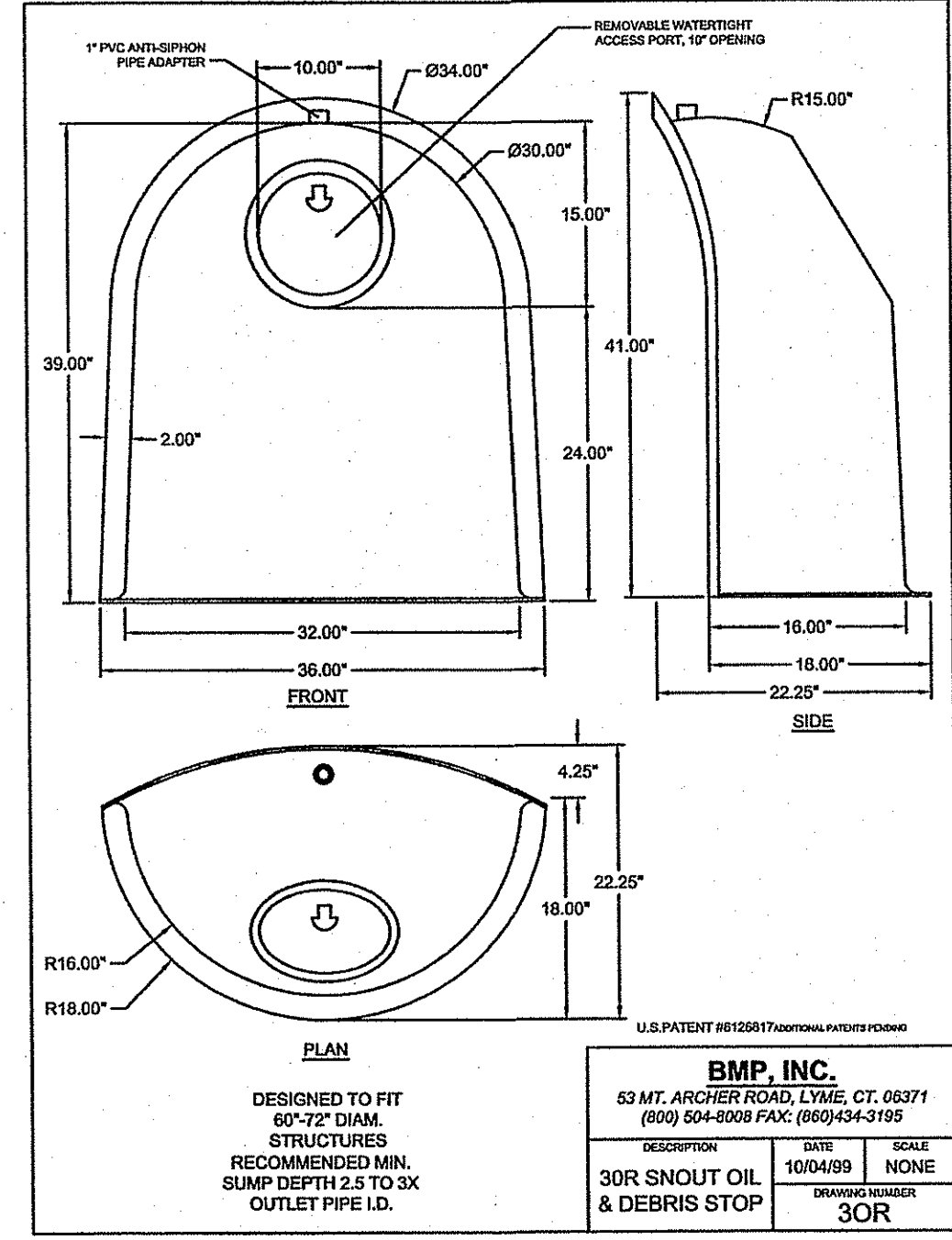
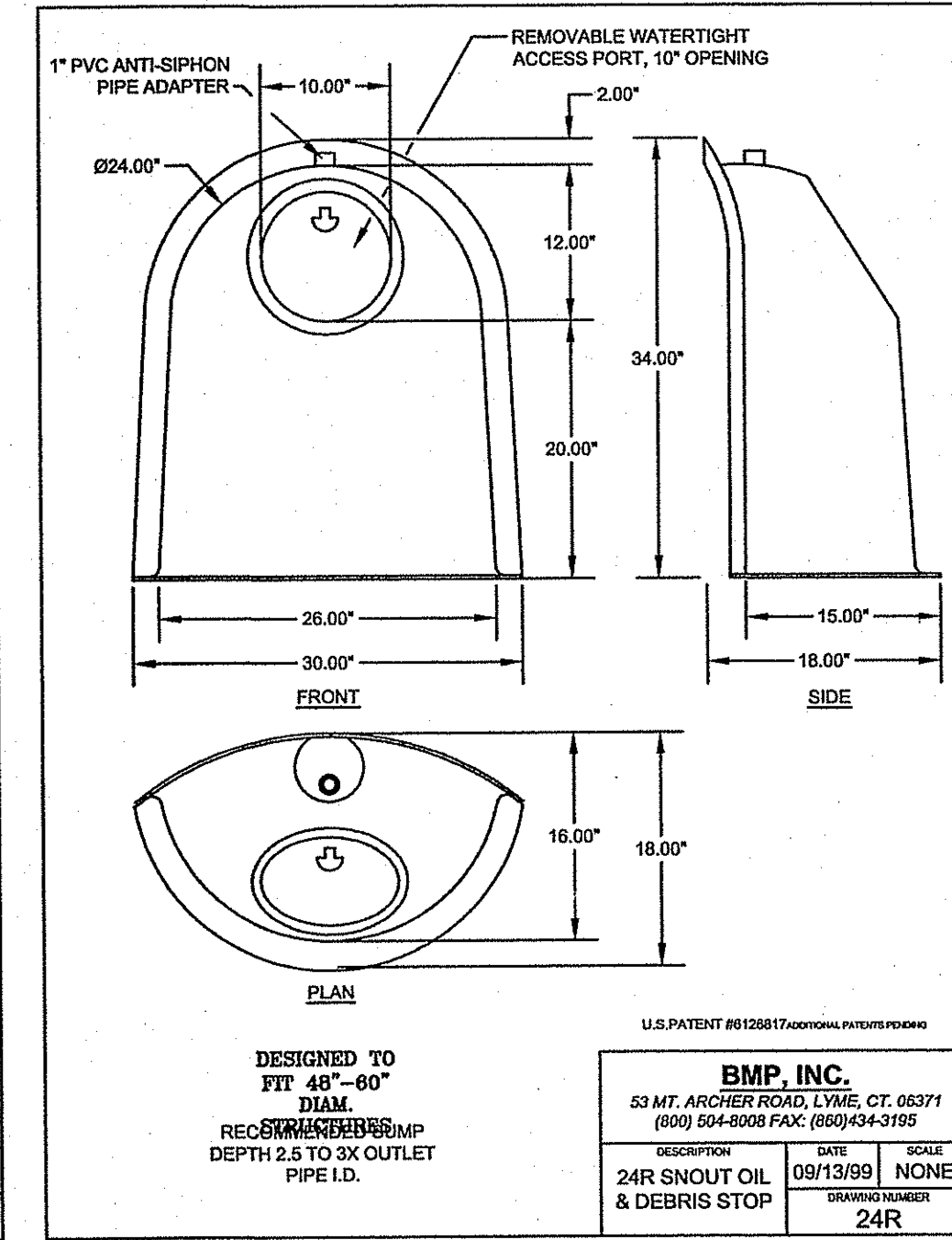
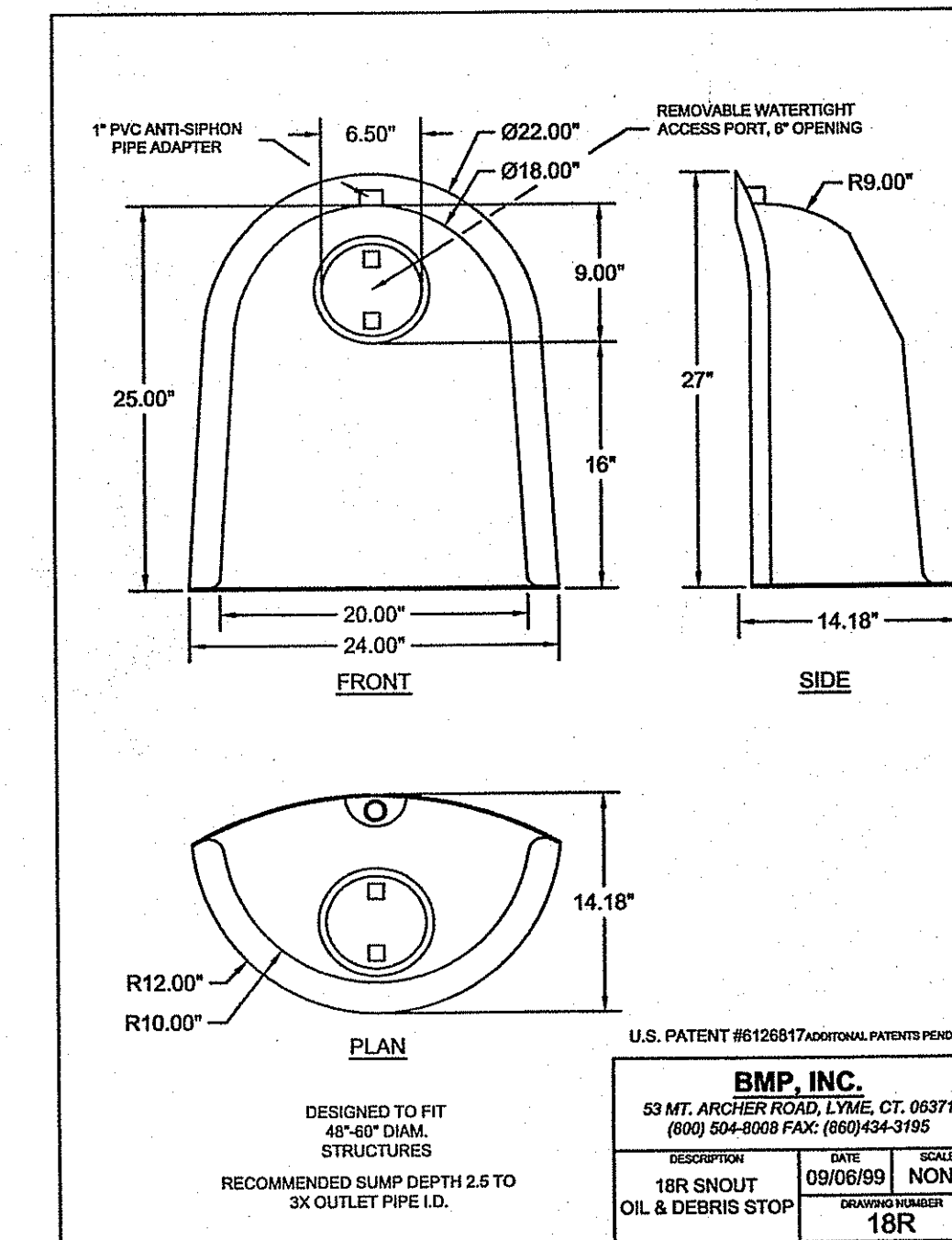
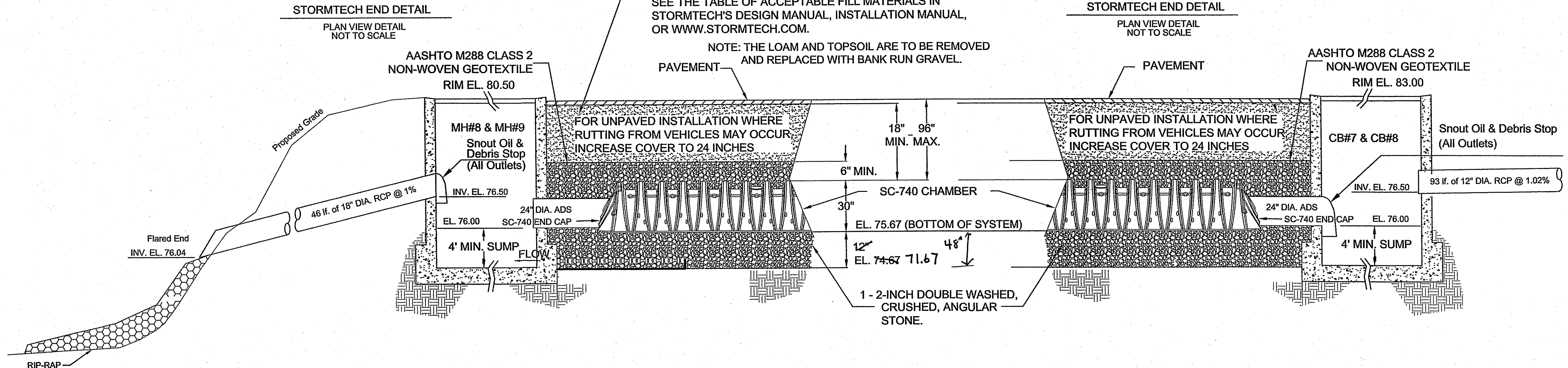
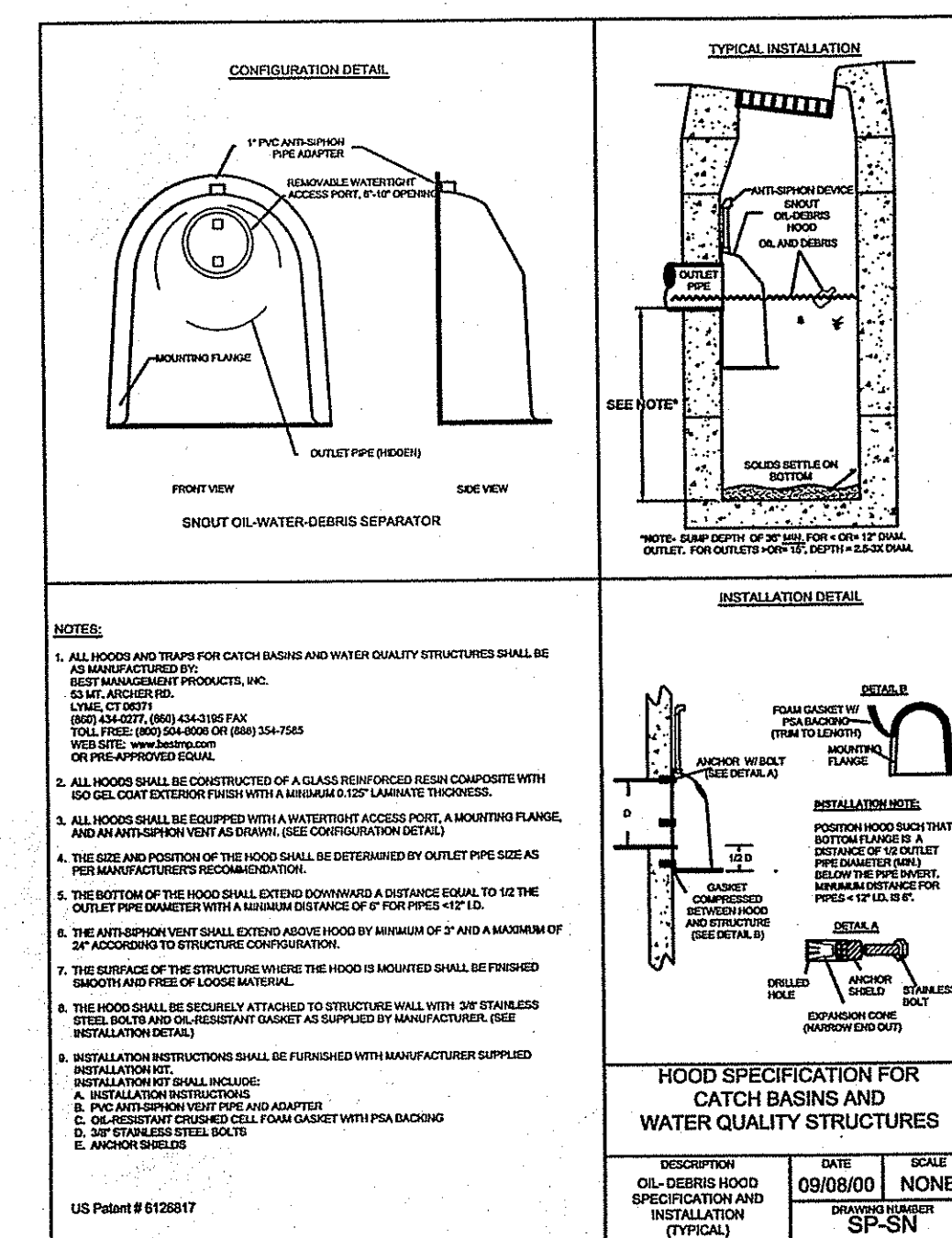
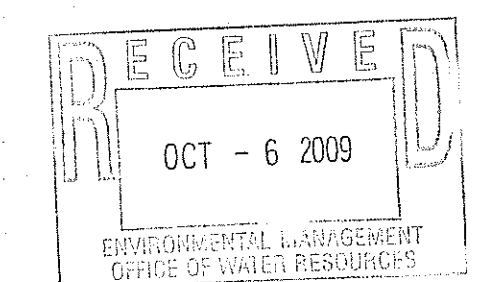
Notes:
 1. All Basins are to be 4' diameter RI Std. 4.4.0, unless otherwise noted.
 2. All Catch Basins and Manholes are to have a 4' sump.
 3. All Catch Basins and Manholes are to have a snout on outlet pipe only.

Structure	Line	Size	Material	Notes
CB1	Line "A"	12"	RI	Rim = 87.00, 12" Inv. Out = 83.77, Sump = 79.77
CB2	Line "A"	12"	RI	Rim = 87.50, 12" Inv. In = 83.57, 12" Inv. Out = 83.57, Sump = 79.57
CB3	Line "A"	12"	RI	Rim = 85.25, 12" Inv. In = 81.74, 12" Inv. Out = 81.74, Sump = 77.74
CB4	Line "A"	12"	RI	Rim = 84.00, 12" Inv. In = 81.19, 12" Inv. Out = 81.19, Sump = 77.19
CB5	Line "A"	12"	RI	Rim = 83.00, 12" Inv. In = 80.17, 12" Inv. Out = 80.17, Sump = 76.50
MH6	Line "A"	15"	RI	Rim = 84.50, 15" Inv. In = 78.88, 15" Inv. Out = 78.88, Sump = 74.88
CB6	Line "A"	12"	RI	Rim = 83.00, 15" Inv. In = 77.88, 15" Inv. Out = 77.88, Sump = 73.88
MH7	Line "A"	12"	RI	Rim = 83.66, 12" Inv. In = 77.30, 12" Inv. Out = 77.30, Sump = 73.30
MH8	Line "B"	18"	RI	Rim = 84.00, 18" Inv. In = 80.17, 18" Inv. Out = 80.17, Sump = 76.50
MH9	Line "B"	18"	RI	Rim = 84.00, 18" Inv. In = 79.69, 18" Inv. Out = 79.69, Sump = 76.50
CB9	Line "B"	12"	RI	Rim = 83.00, 15" Inv. In = 78.88, 15" Inv. Out = 78.88, Sump = 74.88
CB10	Line "B"	12"	RI	Rim = 83.00, 15" Inv. In = 78.88, 15" Inv. Out = 78.88, Sump = 74.88
CB11	Line "B"	12"	RI	Rim = 83.00, 15" Inv. In = 78.88, 15" Inv. Out = 78.88, Sump = 74.88
MH10	Line "B"	12"	RI	Rim = 83.00, 12" Inv. In = 78.26, 12" Inv. Out = 78.26, Sump = 74.26
MH11	Line "B"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH12	Line "B"	12"	RI	Rim = 84.00, 8" Inv. In = 77.45, 8" Inv. Out = 77.45, Sump = 73.45
MH13	Line "B"	12"	RI	Rim = 84.00, 8" Inv. In = 77.45, 8" Inv. Out = 77.45, Sump = 73.45
CB12	Line "C"	12"	RI	Rim = 83.00, 12" Inv. In = 79.20, 12" Inv. Out = 79.20, Sump = 75.20
CB13	Line "C"	12"	RI	Rim = 83.00, 12" Inv. In = 79.20, 12" Inv. Out = 79.20, Sump = 75.20
MH14	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH15	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH16	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH17	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH18	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH19	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH20	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH21	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH22	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH23	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH24	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH25	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH26	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH27	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH28	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH29	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH30	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH31	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH32	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH33	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH34	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH35	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH36	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH37	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH38	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH39	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH40	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH41	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH42	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH43	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH44	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH45	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH46	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH47	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH48	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH49	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH50	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH51	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH52	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH53	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH54	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH55	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH56	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH57	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH58	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH59	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH60	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH61	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH62	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH63	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH64	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH65	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH66	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH67	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH68	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH69	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH70	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH71	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH72	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH73	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH74	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
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MH76	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH77	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH78	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH79	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH80	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH81	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH82	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH83	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH84	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH85	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH86	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH87	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH88	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH89	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH90	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH91	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH92	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH93	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH94	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH95	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH96	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH97	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH98	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH99	Line "C"	12"	RI	Rim = 83.00, 8" Inv. In = 78.26, 8" Inv. Out = 78.26, Sump = 74.26
MH100	Line "C"	12"	RI	Rim =

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Per RIDEM: This design shall include two Stormtech Isolator™ Rows - one between CB#7 and MH#8, and one between CB#8 and MH#9.



Drainage Infiltrator Details
FOR
ALBION COURT OF EXETER
LOCATED AT
South County Trail
Exeter, Rhode Island

Checked By: DrC
Date: 7/14/2009

Drawn By: ERM
Scale: As Shown

NO.	REVISION	BY	DATE
1.	TOWN, RIDOT & WETLANDS COMMENTS	ERM	8/27/09

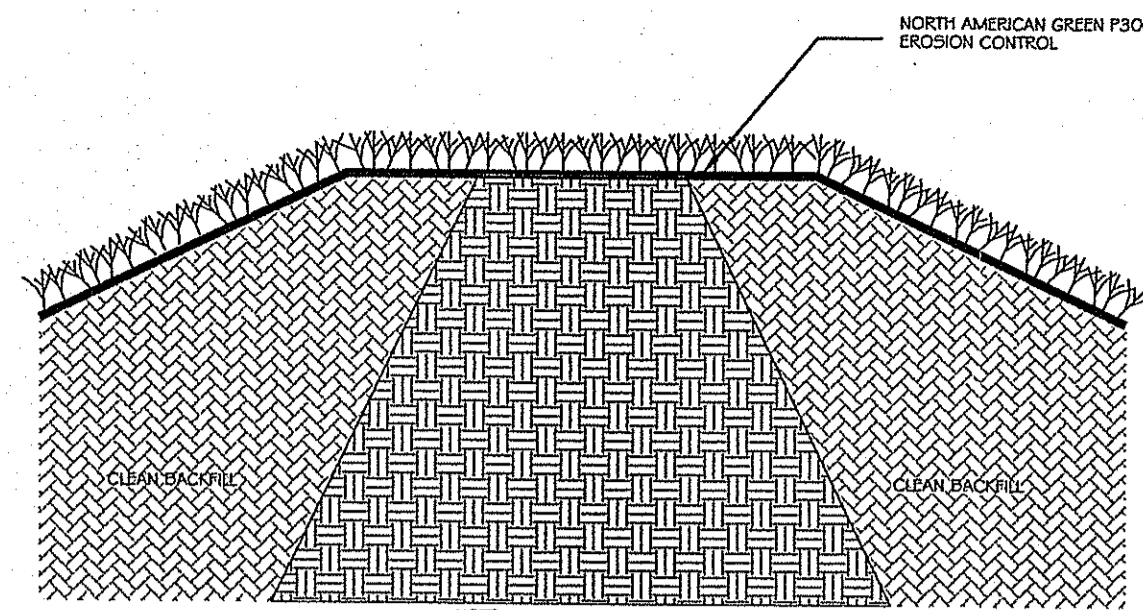
DANIEL R. COTTA
Professional Engineer / Professional Land Surveyor
REG. NO. 10177
10/12/09

AMERICAN ENGINEERING, INC.
Professional Engineer / Professional Land Surveyor
DANIEL R. COTTA
400 South County Trail - Suite A 201
Exeter, Rhode Island 02822
Phone (401) 294-4090 / Fax (401) 294-3625

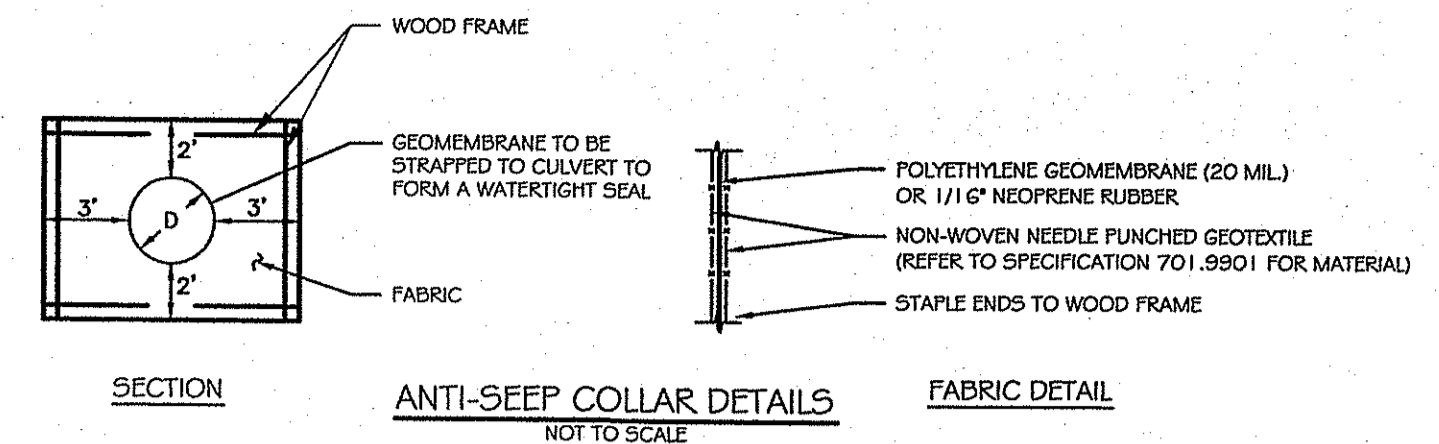
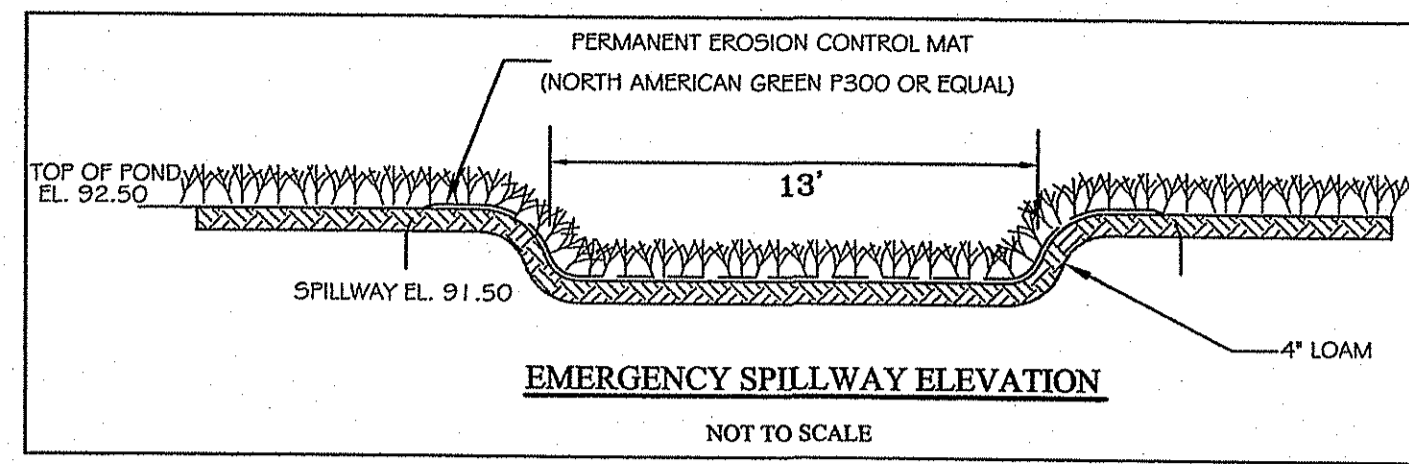
DETENTION BASINS / WATER QUALITY BASINS:

GENERAL NOTES:

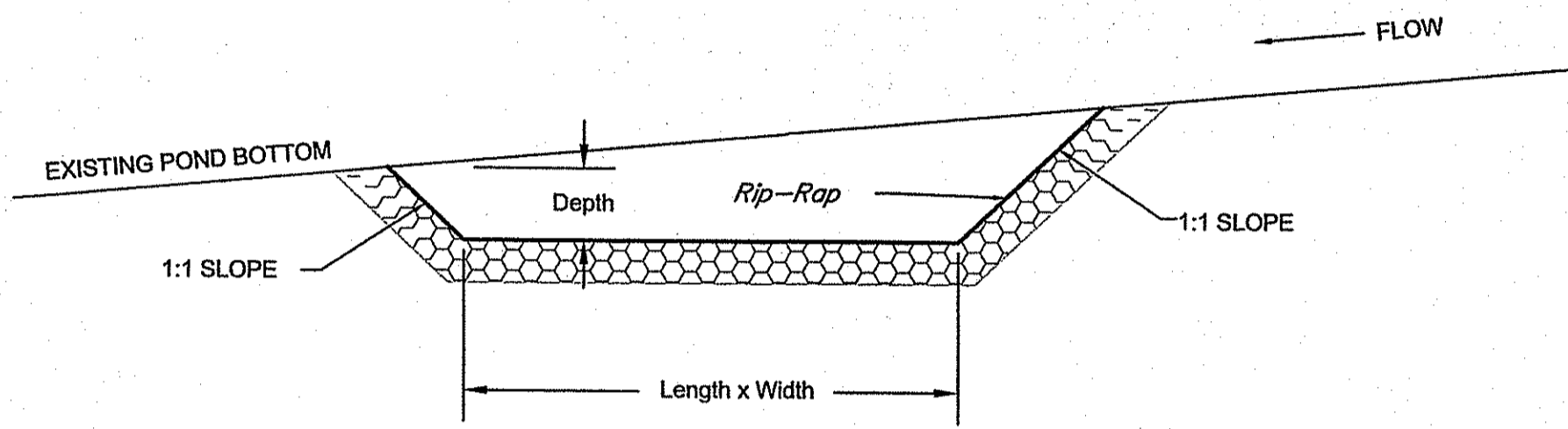
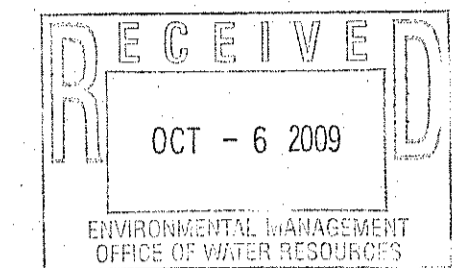
1. ALL TREES, SHRUBS AND STUMPS SHOULD BE REMOVED FROM THE ENTIRE BASIN.
2. TREES OR SHRUBS SHOULD NOT BE PLANTED ON ANY IMPOUNDING EMBANKMENTS (i.e., DIKES OR BERMS) OR WITHIN THE BASIN. SUCH PLANTINGS ARE GENERALLY DISCOURAGED IN ORDER TO REDUCE THE CHANCE OF FAILURE DUE TO ROOT DECAY AND SUBSURFACE DISTURBANCE. GRASSES ARE CONSIDERED THE ONLY ACCEPTABLE VEGETATION FOR PLANTING AND STABILIZING IMPOUNDING EMBANKMENTS.
3. THE ENTIRE BASIN MUST BE STABILIZED WITH A DENSE LAYER OF GRASS IMMEDIATELY FOLLOWING BASIN CONSTRUCTION. THIS MAY REQUIRE THE ADDITION OF 4-6 INCHES OF A LOAMY SOIL SUBSTRATE TO PROMOTE GOOD VEGETATIVE GROWTH AND INFILTRATION. THE ADDITION OF LOAMY SOIL TO THE BASIN MUST BE FACTORED INTO THE OVERALL VOLUME REQUIREMENT. THE BASIN SHALL BE SEEDED WITH TURF-TYPE TALL FESCUES OR SIMILAR.
4. THE DETENTION BASIN SHOULD NOT RECEIVE RUNOFF UNTIL THE ENTIRE CONTRIBUTING WATERSHED AREA HAS BEEN STABILIZED WITH VEGETATION AND OTHER SOIL EROSION AND SEDIMENT CONTROL TECHNIQUES. FAILURE TO DO SO WILL ALLOW EXCESSIVE QUANTITIES OF SEDIMENTS TO ENTER THE BASIN AND WILL NECESSITATE MORE FREQUENT CLEANING OF THE DRAINAGE SYSTEM.
5. THE MAXIMUM ALLOWABLE SLOPE LEADING TO THE BASIN FLOOR SHALL BE 3:1 (3 HORIZONTAL TO 1 VERTICAL) TO FACILITATE MOWING AND OTHER MAINTENANCE OPERATIONS.
6. ALL FILL, INCLUDING THE EMBANKMENT OF THE BASINS, SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE R. I. STANDARD SPECIFICATION FOR ROAD AND BRIDGE SECTION 202.
7. CONSTRUCTION OF ALL STORM WATER BASINS SHALL BE SUPERVISED BY A PROFESSIONAL ENGINEER. A REPORT AND PLAN OF AS-BUILT CONSTRUCTION SHALL BE PREPARED.



EMERGENCY SPILLWAY SECTION - BASIN I
NOT TO SCALE



- NOTES:**
1. ALL CULVERTS EXITING PROPOSED PONDS SHALL HAVE AN "ANTI-SEEP COLLAR" INSTALLED AT THEIR MID LENGTH.
 2. THE STRAP SHALL BE SUBJECT TO ENGINEER'S APPROVAL. THE STRAP MAY BE A POLYPROPYLENE CORD WITH A TENSILE STRENGTH OF 200 POUNDS AND SHALL PROVIDE A PERMANENT, NON-SLIP, TIE.

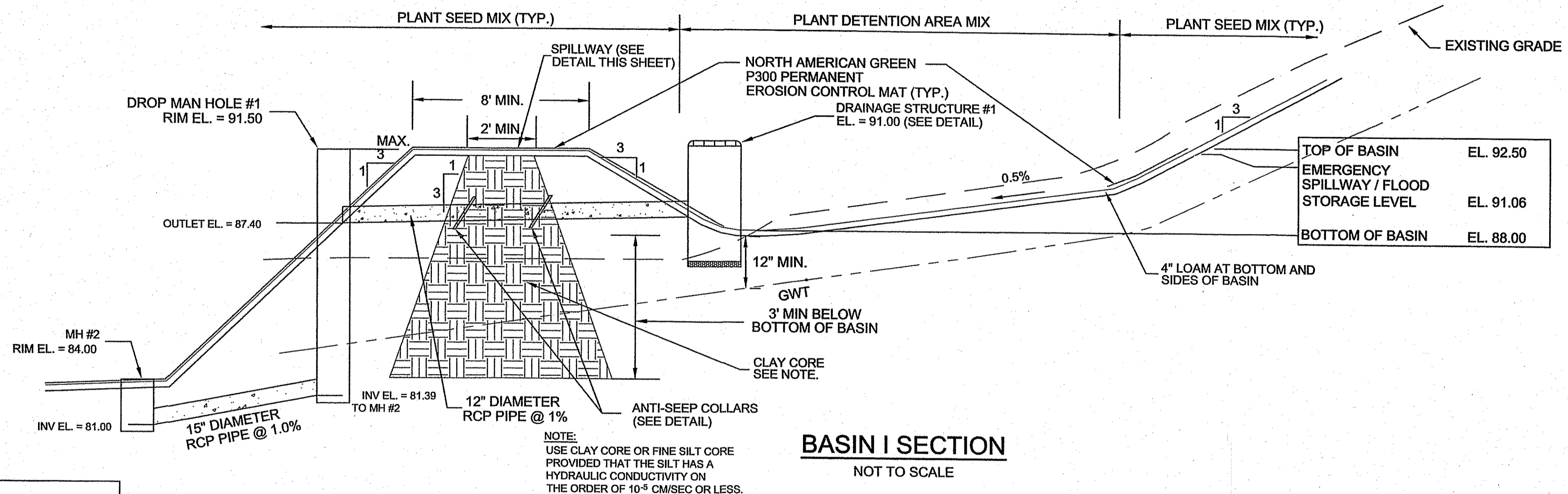


SECTION THRU SEDIMENT FORE BAY
NO SCALE

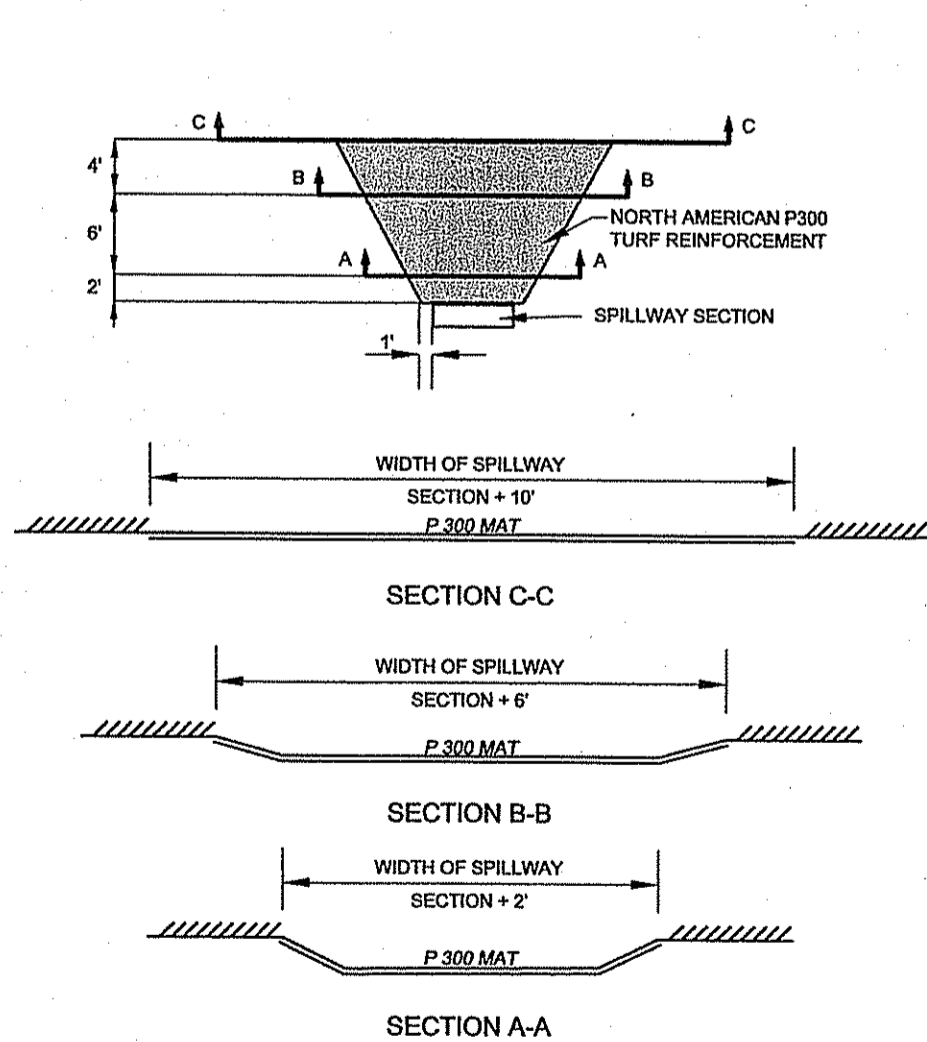
SEDIMENT FOREBAY DIMENSIONAL CHART

FOREBAY	LENGTH	WIDTH	DEPTH	STORAGE
BASIN I	21.7'	15.3'	1'	320 cf
BASIN 2A NORTH	14.4'	3.3'	1'	61 cf
WEST	12.7'	8.2'	1'	93 cf
SOUTH	14.2'	5.2'	1'	85 cf
BASIN 2B NORTH	8.6'	3.7'	1'	40 cf
EAST	8.7'	4.6'	1'	45 cf

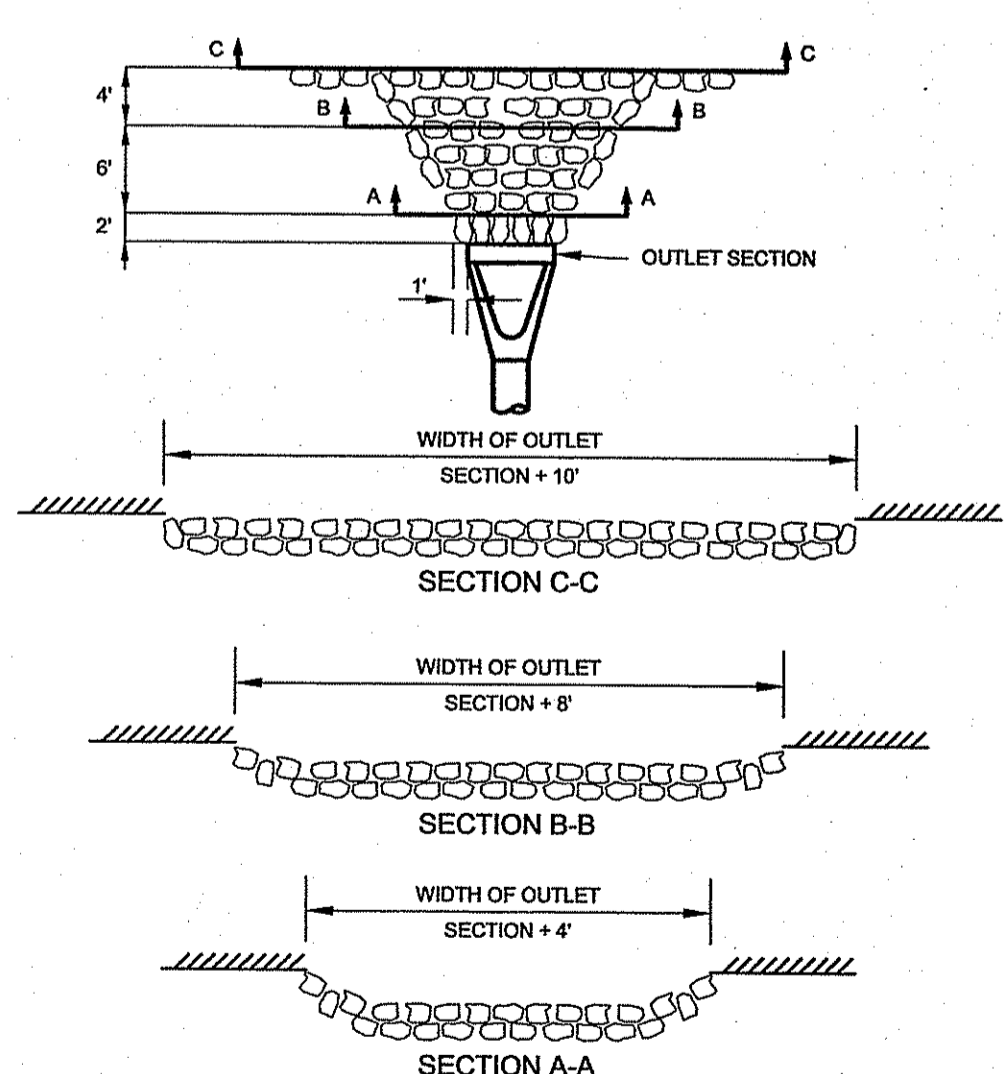
Note:
Storage Areas are based on an oval constructed to the dimensions shown.



BASIN I SECTION
NOT TO SCALE

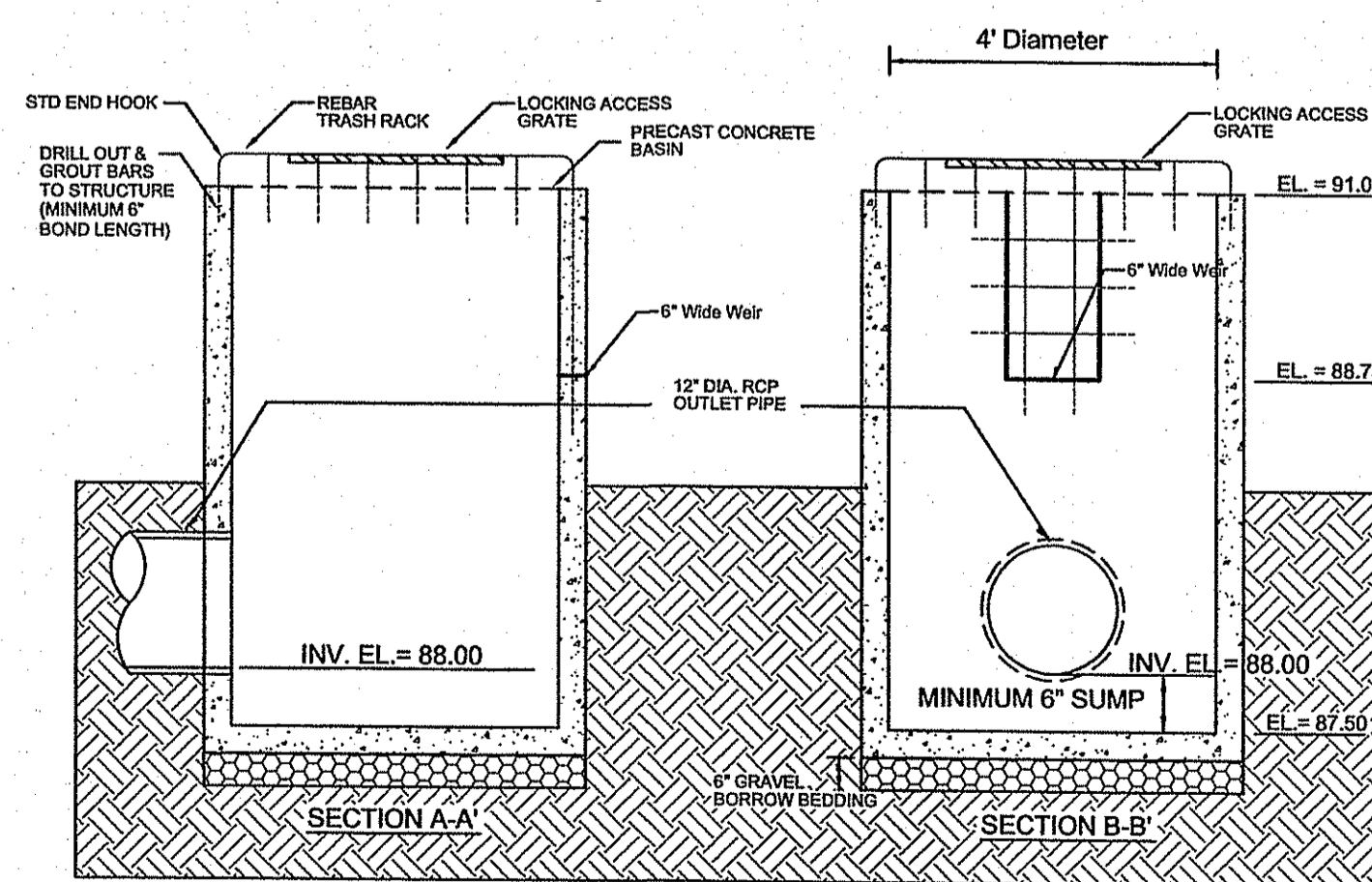


NORTH AMERICAN P300 TURF REINFORCEMENT AT SPILLWAY SECTIONS
(NOT TO SCALE)

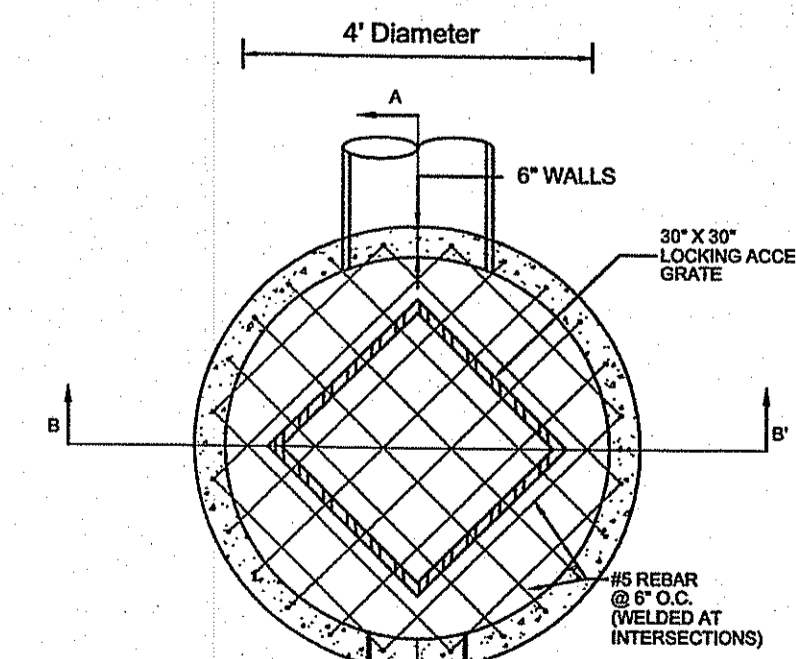


ROCK FILL RIP-RAP AT FLARED END SECTIONS
(TYPICAL AT ALL FLARED ENDS)

- NOTES:**
1. CLASS "C" RIP-RAP AND BEDDING TO BE UTILIZED.
 2. DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS
 3. UNLESS OTHERWISE SPECIFIED, DUMPED RIP-RAP SHALL BE USED



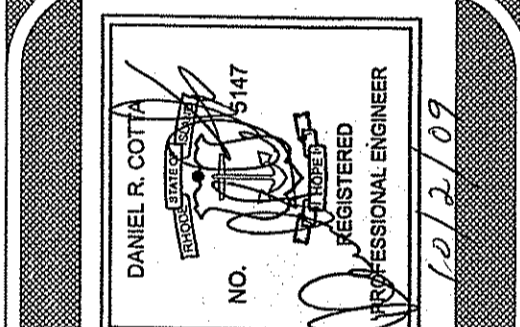
4' Diameter Standpipe Weir
NOT TO SCALE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED **NOV - 6 2009** FILE #
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Checked By: DrC
Date: 7/14/2009
Scale: As Shown

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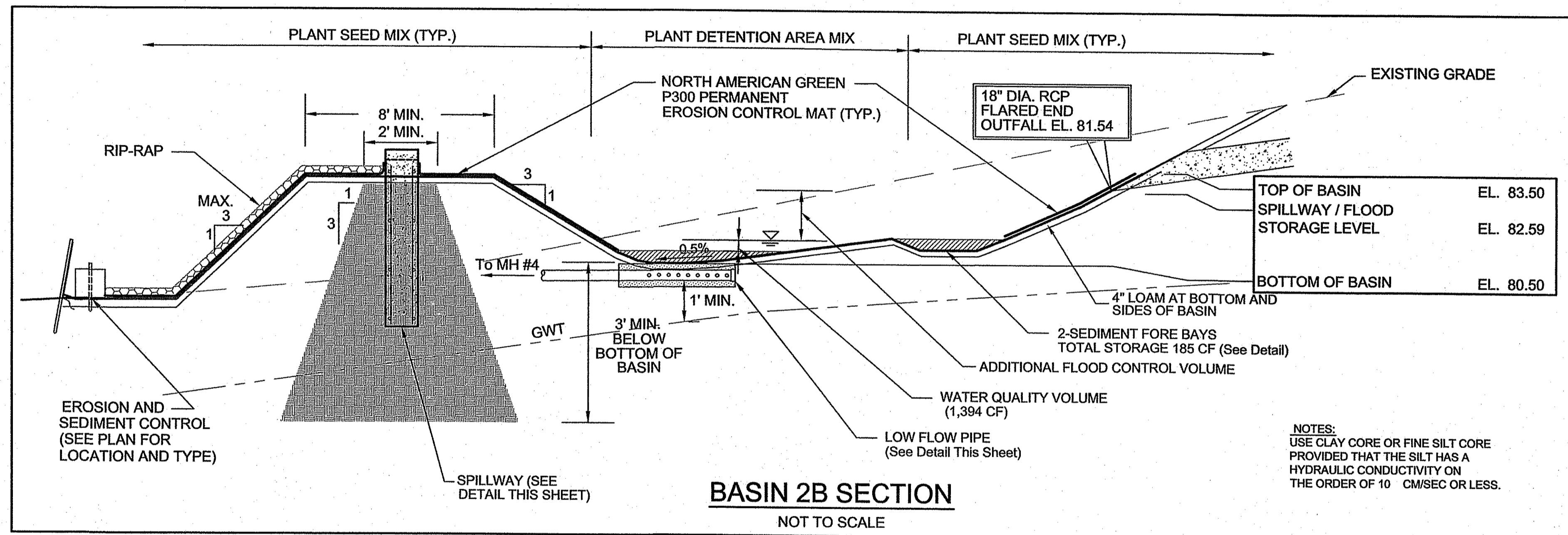
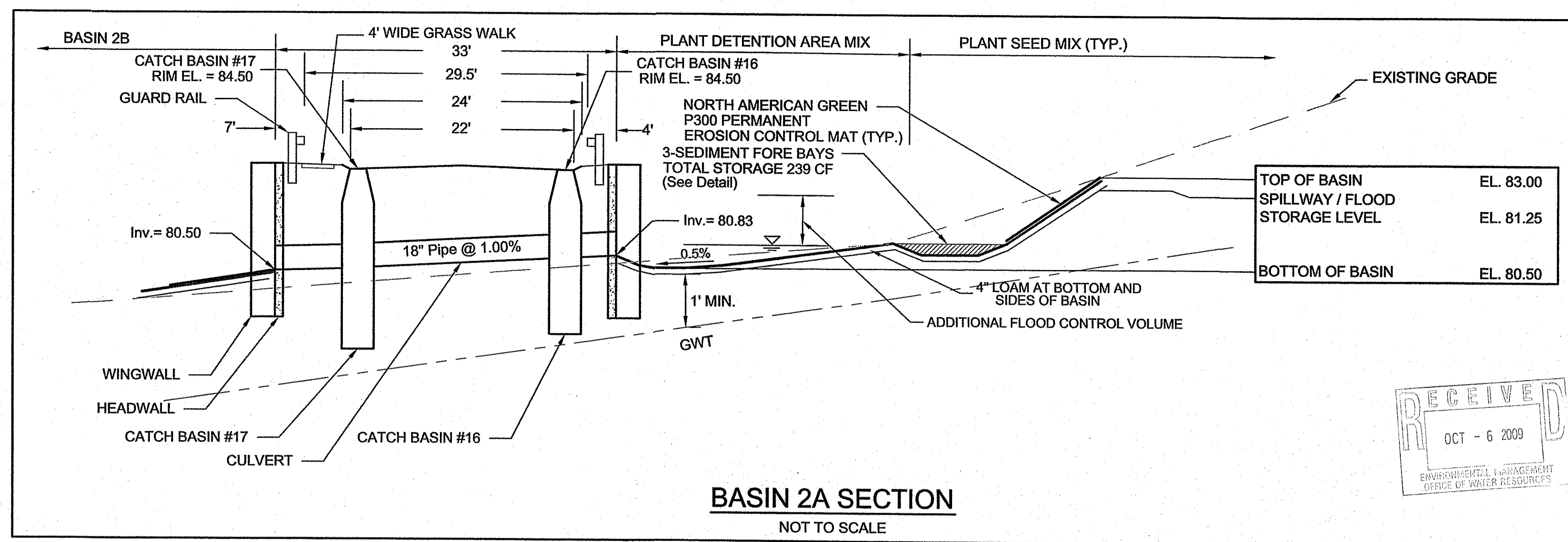
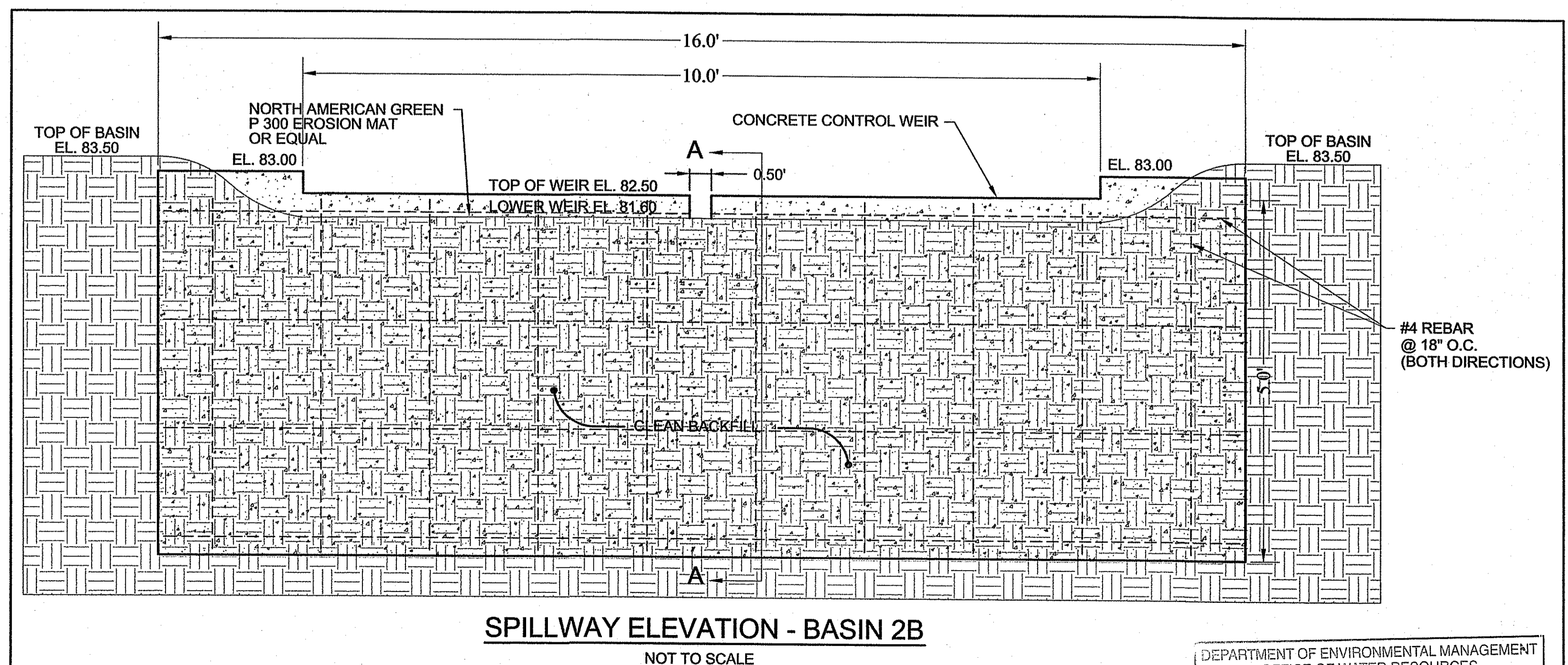
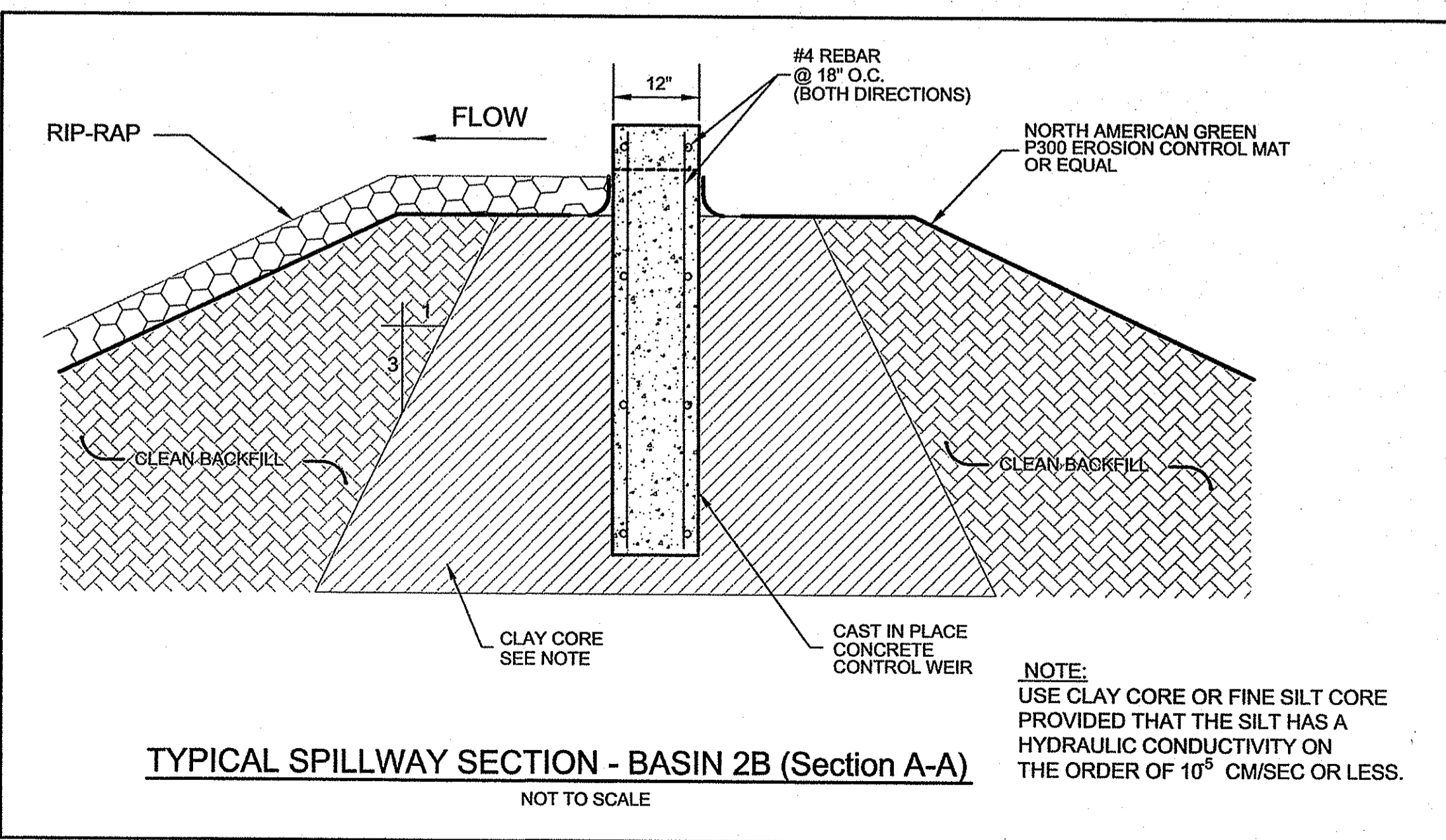
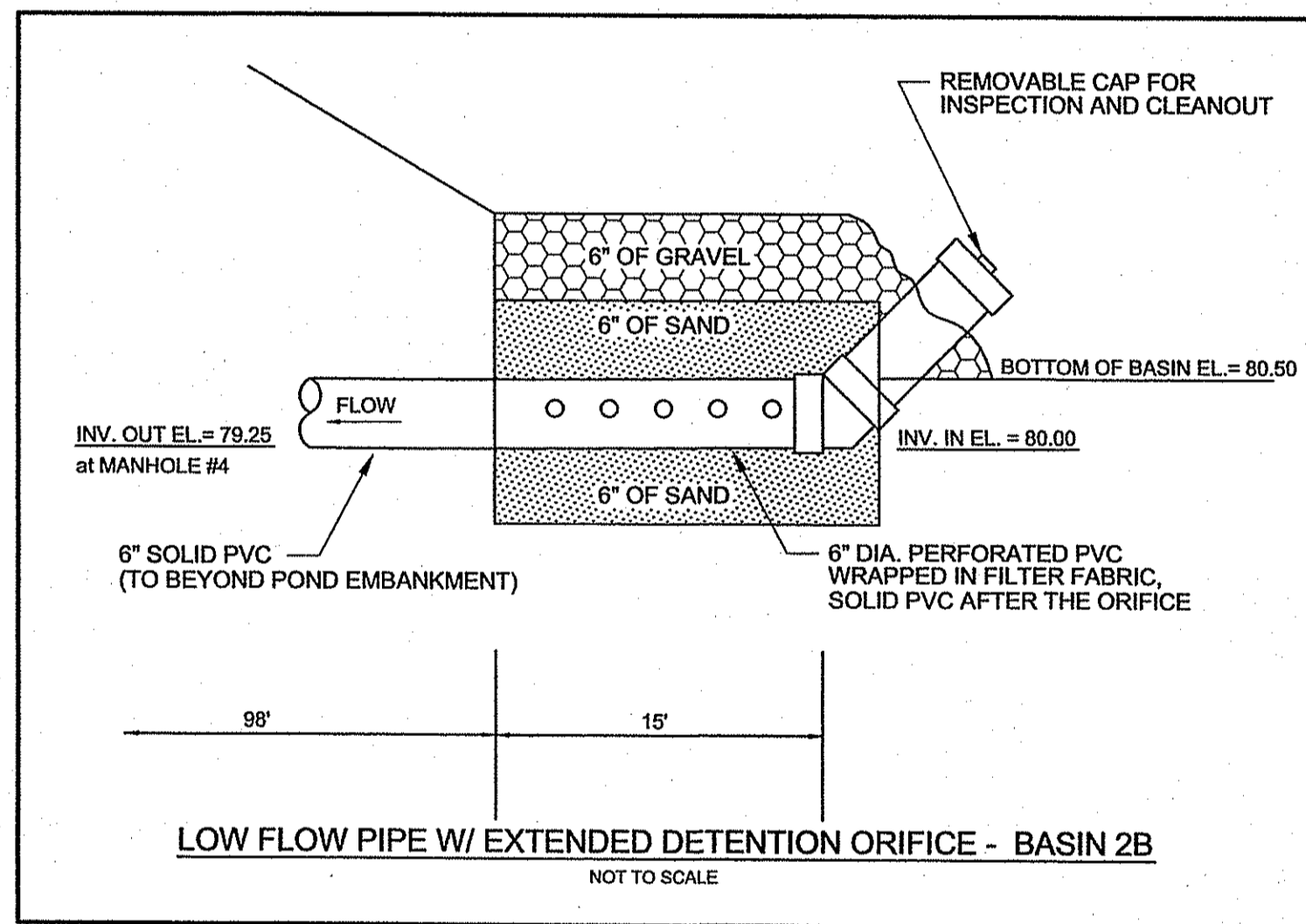
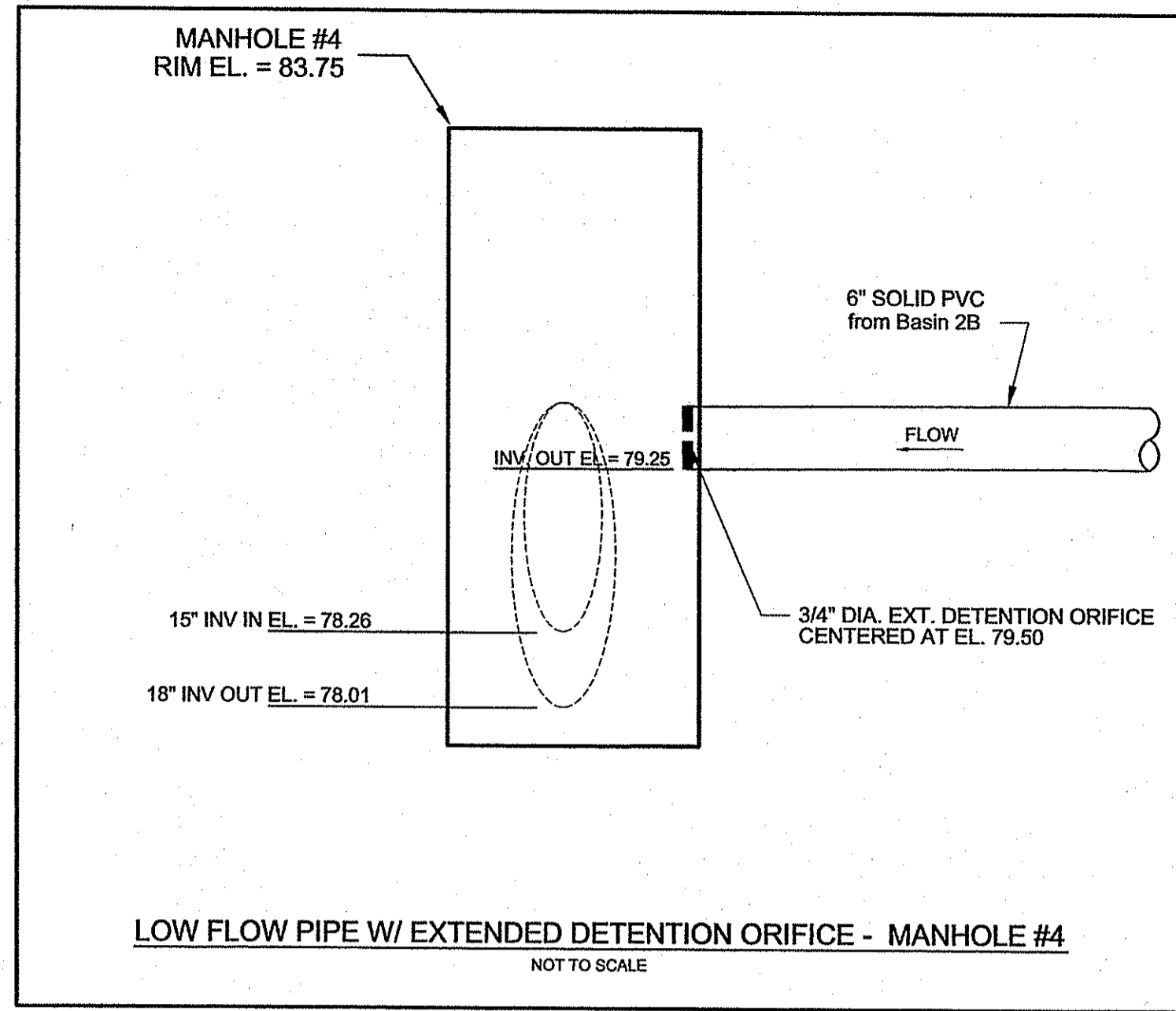


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Sheet 10 of 19
C.5.3
of 1 sheets
Drawing No. _____
Dr. _____ Sh. _____

Basin Details I
FOR
ALBION COURT OF EXETER
LOCATED AT
South County Trail
Exeter, Rhode Island

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RECEIVED
OCT - 6 2009
ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES

Basin Details II
FOR
ALBION COURT OF EXETER
LOCATED AT
South County Trail
Exeter, Rhode Island

Checked By: DrC
Date: 7/14/2009

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1	TOWN, ROAD & WETLANDS COMMENTS	ERM	8/27/09

Drawn By: ERM
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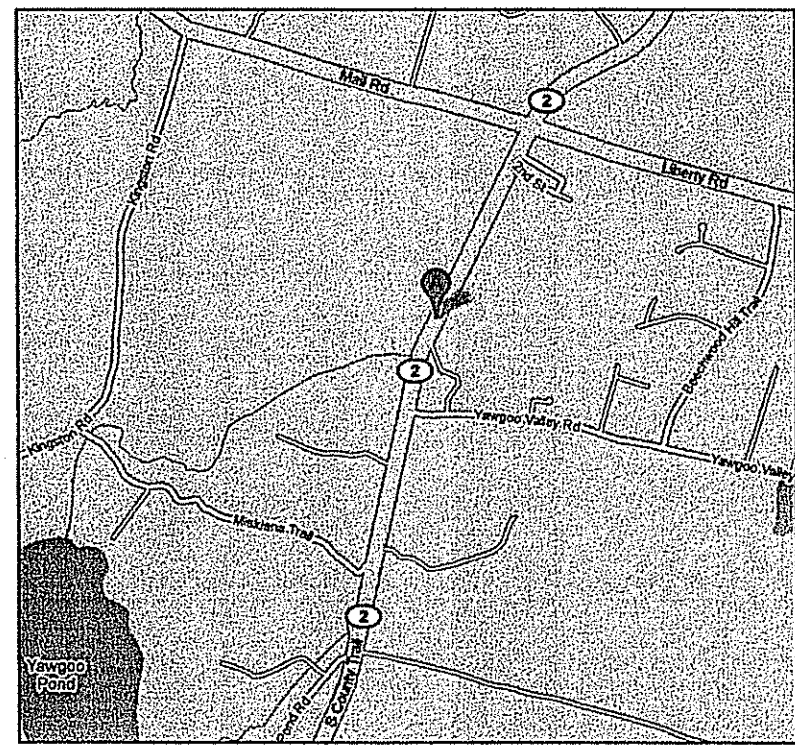
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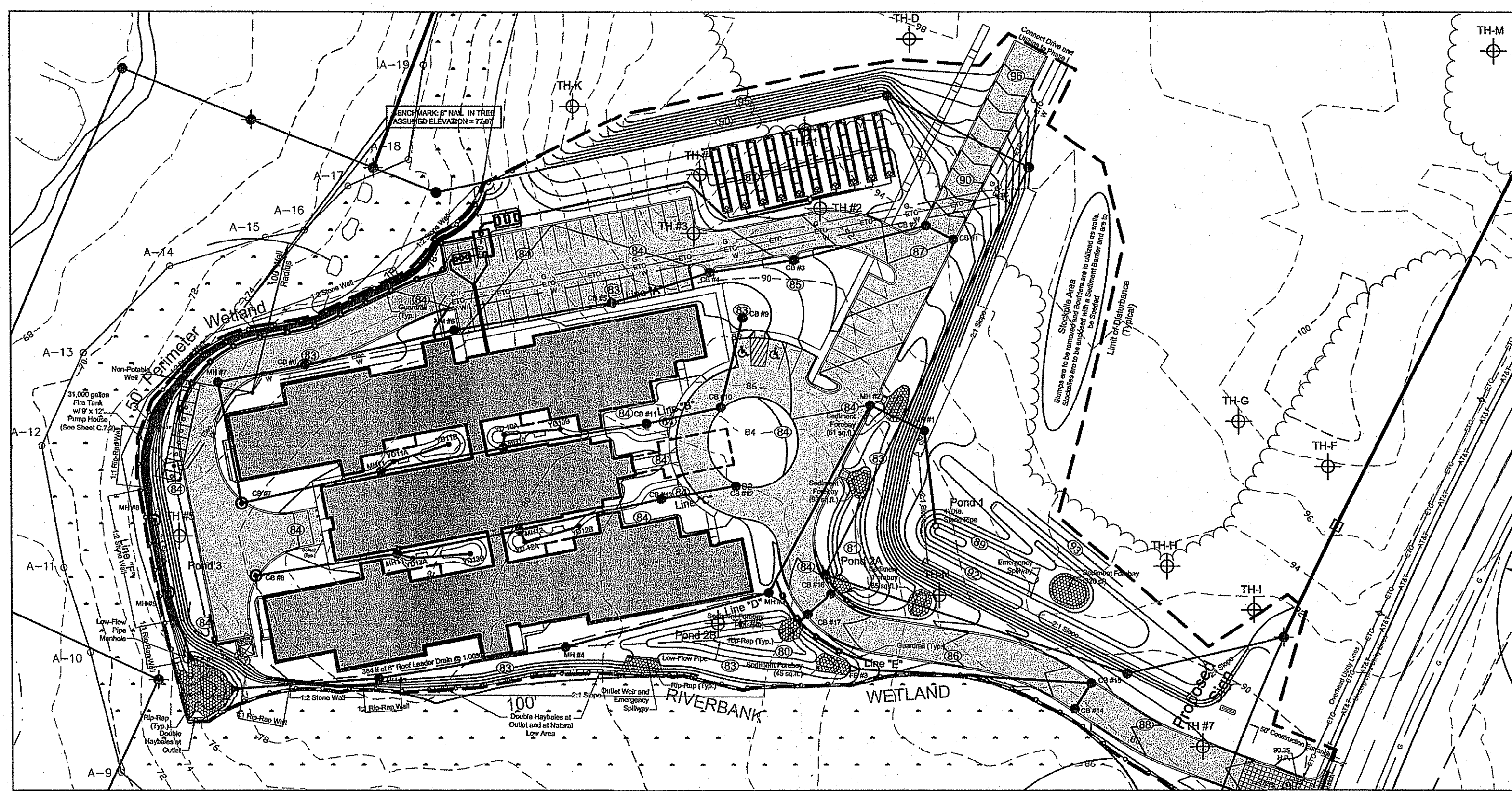
Sheet 11 of 19
C.5.4
of 1 sheets
Drawing No. _____
Dr. _____ Sh. _____

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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LOCUS MAP
NOT TO SCALE



Overall View
Scale: 1" = 60'

Drain Note:
1. All drains within 50' of the OWTS system shall be either above the water table or watertight and bedded in sand or bank run gravel.

Design Criteria:
Institutional/Assisted Living Facility - 64 Bed Facility @ 57.5 gal/day = 3,680 gal/day
Total Use = 3,680 gal/day → Designed for 4,000 gal/day

Design Calculations:
Using Testhole #1 - Soil Category 1 - Loading Rate Factor = 0.70
Required: 4,000 / 0.70 (factor) = 5714 sf x 40% reduction for treatment = 3,429 sf
Provided: 50 Shallow Concrete Chambers (10 Rows with 5 Chambers per Row)
(20 End Units x 78 = 1,560 sf) + (30 Interior Units x 64 = 1,920 sf) = 3,480 sf Total

APPROVALS:

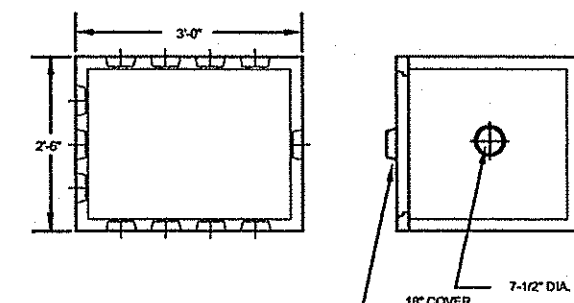
- Reference is hereby made to an approved RIDEM Wetlands Insignificant Alteration Permit for Application # 06-0451 Dated: December 14, 2006.
- Reference is hereby made to an approved RIDEM Preliminary Subdivision Suitability Determination for Application # S 11-51 Dated: April 18, 2007.
- Reference is hereby made to an approved RIDEM Wetland Edge verification 06-0336.

SLEEVED BUILDING SEWER NOTE:

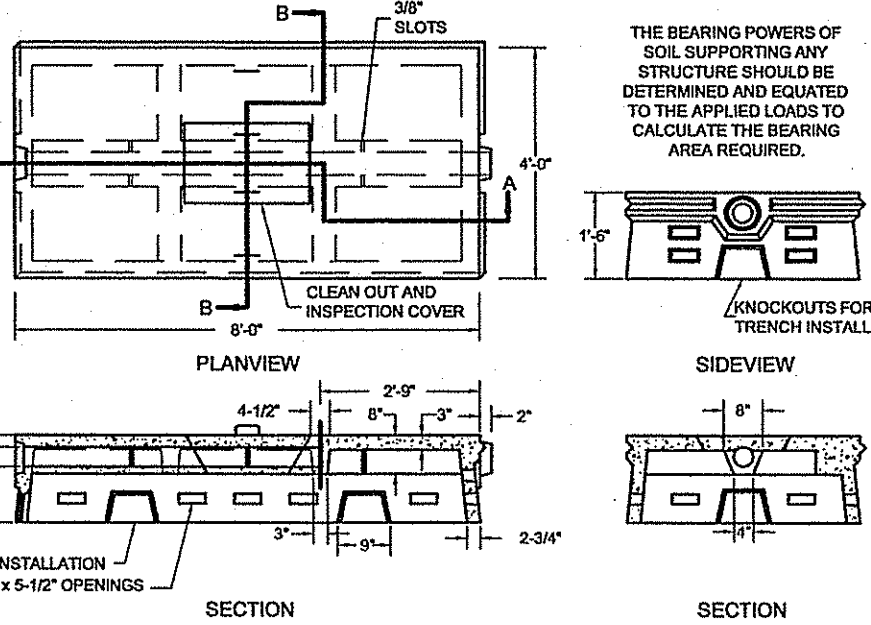
The sewer line shall be sleeved at any point within 10' of a water line or within 25' of a drain line. The sleeve shall be seamless, and it shall have a watertight seal that is fastened to the pipes with a stainless steel retractable clamp. All pipes beneath the paved areas shall be schedule 40.

NOTE TO INSTALLER:

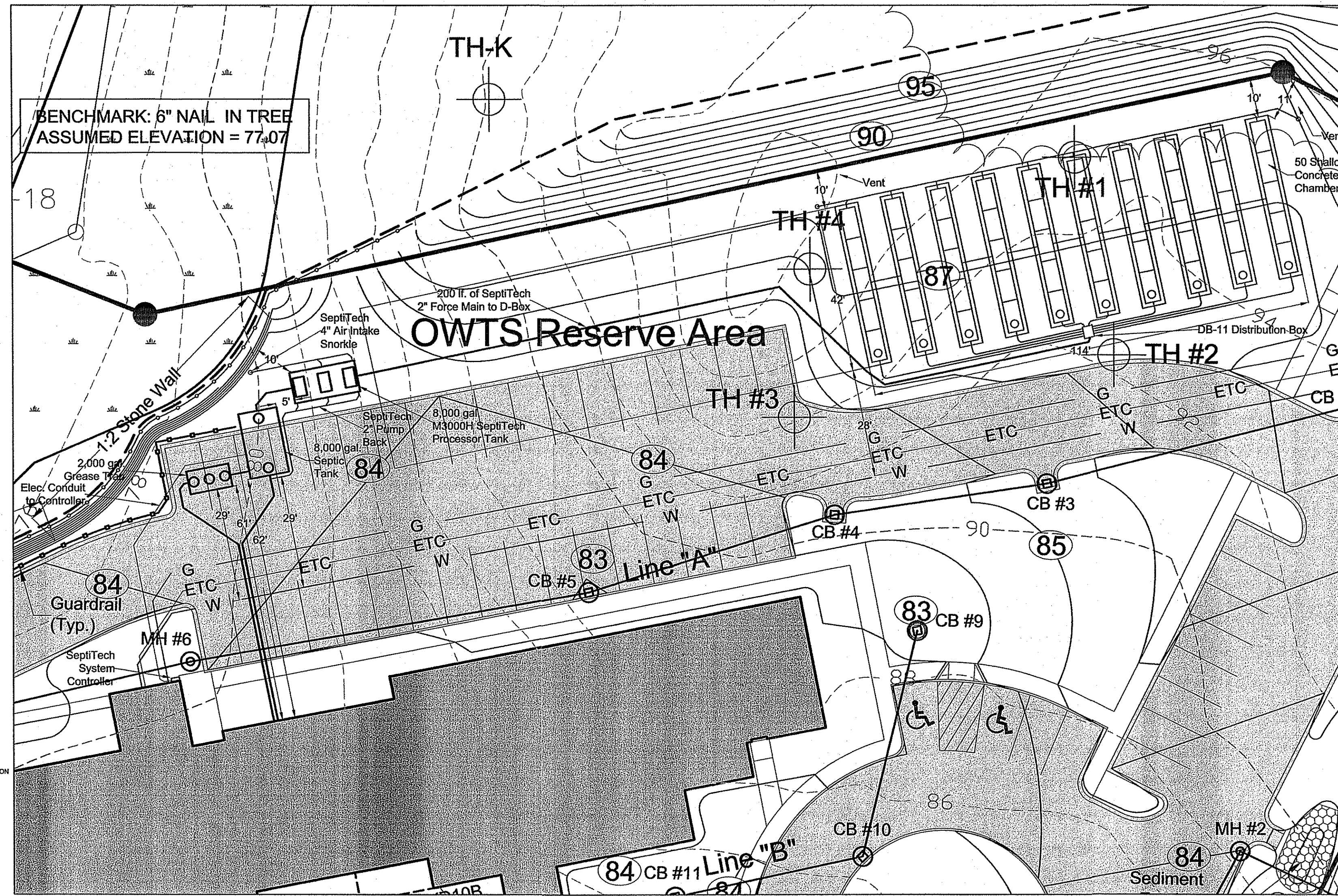
ADD WATER AS NECESSARY TO THE TANK TO COUNTERACT ANY BUOYANT FORCES ACTING UPON THE STABILITY OF THE TANK POSITION WHEN INSTALLING A TANK IN A HIGH WATER TABLE LOCATION.



PRECAST DISTRIBUTION BOX, DB-11 (MUST BE H-20 LOAD CAPABLE)
(CERTIFIED WATERTIGHT IN FIELD)



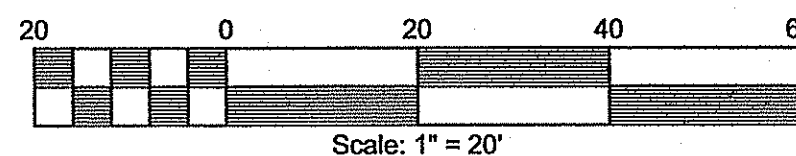
SHALLOW CONCRETE CHAMBER DETAIL
PRECAST LEACHING CHAMBER FD 4x8-L FLOW DIFFUSOR
NOT TO SCALE
(THIS CHAMBER IS HS-20 RATED)



****NOTICE TO INSTALLER****

DESIGNER SUPERVISION REQUIRED.
CONTACT DESIGNER 48 HOURS PRIOR TO CONSTRUCTION.

FEMA DETERMINATION
ZONE "C" - AREA OF MINIMAL FLOODING
PANEL NO. - 440032 0027 A
REVISED - March 1, 1982



Scale: 1" = 20'

NOTE

THIS PLAN IS FOR SEPTIC PURPOSES ONLY
AND DOES NOT CONSTITUTE A SURVEY

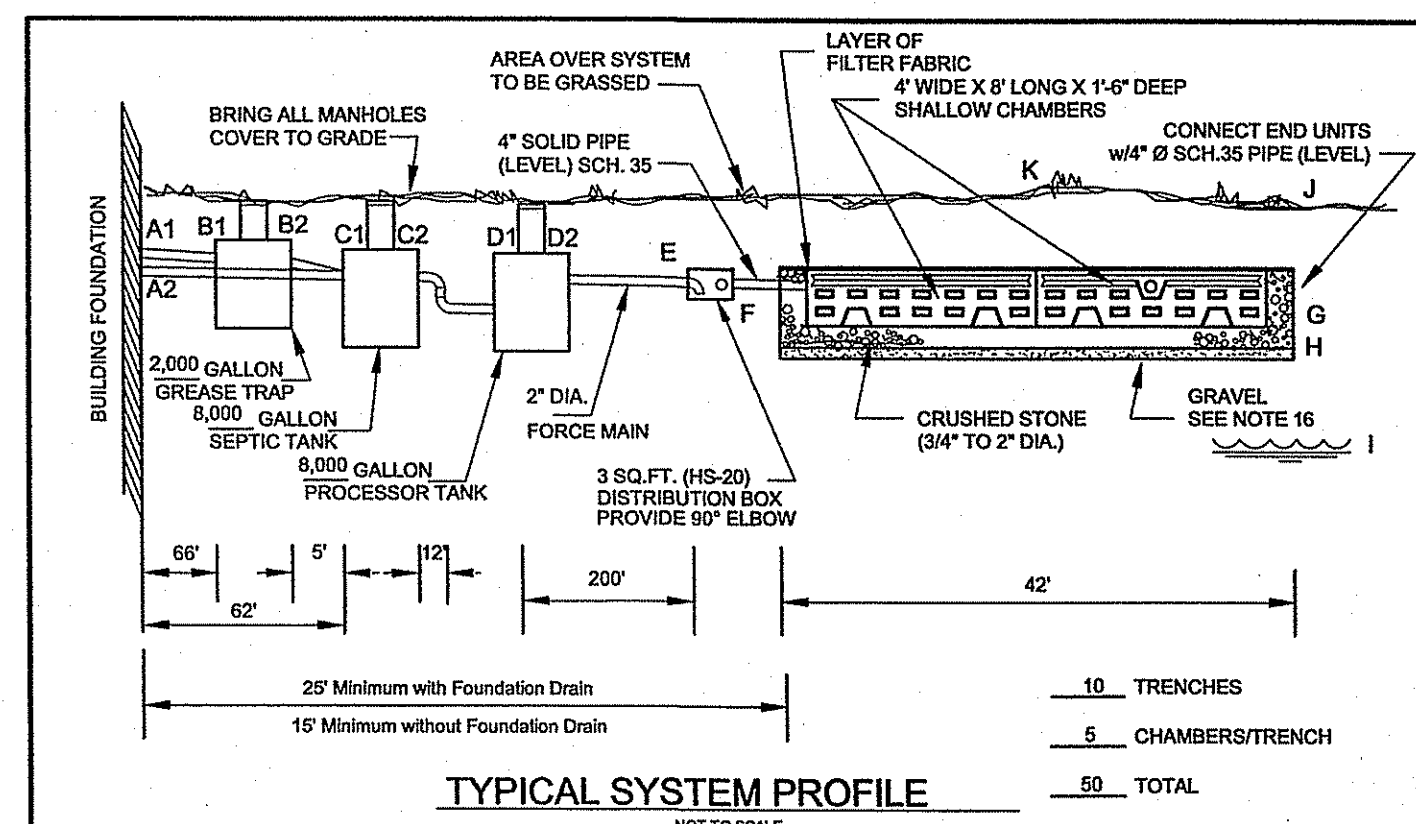
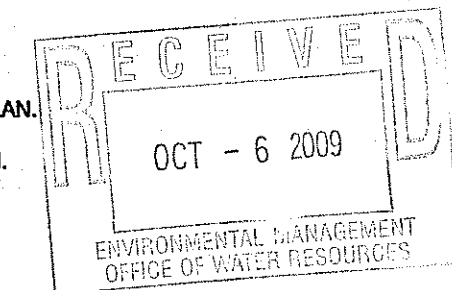
ELEVATION LOCATION	ELEVATION
A1 INV. AT BUILDING TO GREASE TRAP	80.98
A2 INV. AT BUILDING TO SEPTIC TANK	80.75
B1 INV. AT GREASE TRAP IN	79.78
B2 INV. AT GREASE TRAP OUT	79.53
C1 INV. AT SEPTIC TANK IN	79.43
C2 INV. AT SEPTIC TANK OUT	79.18
D1 INV. AT M3000H PROCESSOR TANK IN	76.50
D2 INV. AT M3000H PROCESSOR TANK OUT	81.73
E INV. AT D-BOX IN	85.17
F INV. AT D-BOX OUT	85.00
G BOTTOM OF CHAMBERS	84.00
H BOTTOM OF STONE	83.00
I WATER ELEVATION	80.00
J FINISH GRADE (MIN.)	86.50
K FINISH GRADE (MAX.)	87.50

TESTHOLE & PERCOLATION DATA:
American Engineering (3/19/09)
TH 1 - verified at 15.0' (0911-0154)
TH 2 - verified at 12.0' (0911-0154)
TH 3 - verified at 14.0' (0911-0154)
TH 4 - verified at 16.0' (0911-0154)
TH 5 - verified at 11.0' (0911-0154)
TH 6 - verified at 1.5' (0911-0154)
TH 7 - verified at 4.0' (0911-0154)

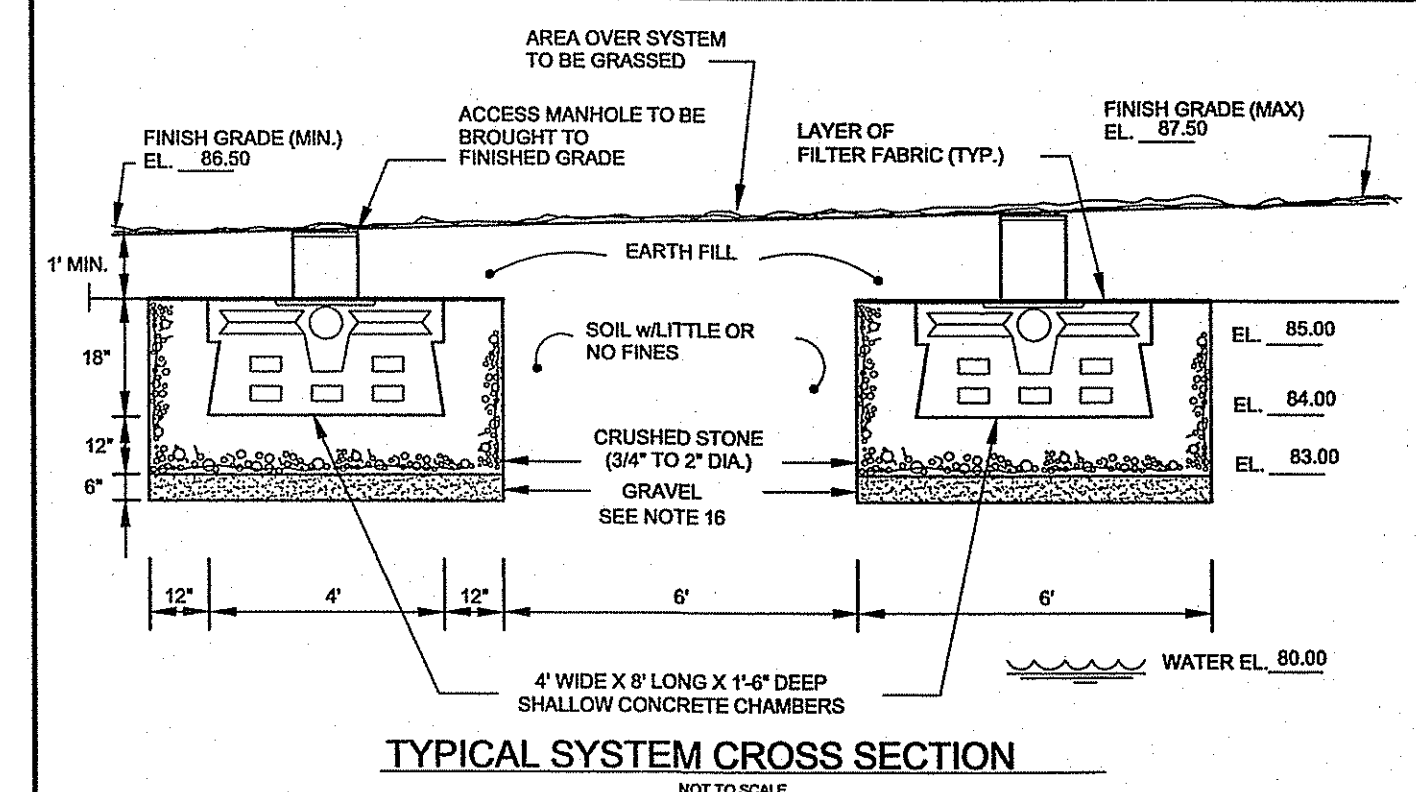
SOIL CATEGORY 1 - DESIGNED USING A LOADING RATE FACTOR OF 0.70 GAL/SF/DAY

GENERAL NOTES:

- D-BOX TO BE 3 SQ. FT. MINIMUM, AND BE PROVIDED WITH A SUITABLE BAFFLE. D-BOX MUST BE HS-20 RATED.
- SEPTIC TANK TO BE PROVIDED WITH AN INLET TEE AND AN OUTLET TEE. MANHOLE COVER IS TO BE BROUGHT TO FINISH GRADE WITH THE RIM SET TO DIVERT SURFACE RUNOFF.
- NO GRADE WITHIN 10 FEET OF THE PROPOSED SYSTEM SHALL BE LOWER THAN THE INVERTS.
- NO SLOPE WITHIN 25 FEET OF THE PROPOSED SYSTEM SHALL BE GREATER THAN A 3:1 SLOPE.
- THE DRAINFIELD AREA IS TO BE KEPT DEBRIS FREE AND PLANTED TO GRASS.
- TREES AND SHRUBS ARE TO BE KEPT A MINIMUM DISTANCE OF 10' FROM THE DRAINFIELD.
- THERE ARE NO PUBLIC SEWERS WITHIN 200 FEET OF THE PROPERTY OTHER THAN SHOWN ON PLAN.
- THERE ARE NO WELLS WITHIN 200 FEET OF THE PROPOSED OWTS OTHER THAN SHOWN ON PLAN.
- THERE ARE NO OWTS WITHIN 200 FEET OF THE PROPOSED WELL OTHER THAN SHOWN ON PLAN.
- THERE ARE NO DRAINS WITHIN 100 FEET OF THE PROPERTY OTHER THAN SHOWN ON PLAN.
- THERE ARE NO PUBLIC WELLS WITHIN 500' OF THE PROPOSED OWTS OTHER THAN SHOWN ON PLAN.
- THERE ARE NO OWTS WITH A FLOW GREATER THAN 1,000 GPD WITHIN 400' OF THE PROPOSED WELL OTHER THAN SHOWN ON PLAN.
- THERE ARE NO WATERCOURSES, WETLANDS OR DRAINS WITHIN 200' OF THE PROPOSED OWTS OTHER THAN SHOWN ON PLAN.
- AREA BETWEEN THE DISPERSAL TRENCHES SHALL REMAIN UNDISTURBED.
- AREA OF CHAMBERS TO BE STRIPPED 10 FEET ON ALL SIDES OF ALL TREES, STUMPS, BOULDERS, AND BRUSH.
- IF THE INVERT IS ABOVE ORIGINAL GRADE: (9) FEET BEYOND THE LEACHFIELD SHALL BE STRIPPED OF ALL TOPSOIL (A HORIZONS), IN ORDER TO PER RULE 33.5.1 THE LEACHFIELD AND FIVE (5) FEET BEYOND THE LEACHFIELD SHALL BE ALLOWED IN THIS AREA. IN ORDER TO AVOID COMPACTION OF THE B SOIL HORIZON ONLY TRACKED VEHICLES SHALL BE ALLOWED IN THIS AREA. PER RULE 33.5.2 PROPERLY COMPACTED GRAVEL THAT MEETS THE REQUIREMENTS OF RULE 32.12 SHALL BE PLACED THROUGHOUT THE EXCAVATION TO AN ELEVATION THAT WILL BE TWO (2) INCHES ABOVE THE TOP OF THE DISTRIBUTION LINES. DISPERSAL TRENCHES SHALL BE EXCAVATED OUT OF THE COMPACTED GRAVEL. THERE SHALL BE A MINIMUM SIX (6) INCH GRAVEL BASE LAYER MEETING THE REQUIREMENTS OF RULE 32.12 BELOW THE STONE.
- ALL PRE-ASSEMBLED SEPTIC TANKS SHALL BE CERTIFIED WATER TIGHT BY THE MANUFACTURER. ALL TANKS ASSEMBLED ON-SITE SHALL BE CERTIFIED WATERTIGHT IN THE FIELD. CERTIFICATE BY MANUFACTURER OR FROM ON-SITE TESTING SHALL BE INCLUDED WITH BILL OF LADEN.
- ALL GRAVITY LINES TO BE 6 INCH DIAMETER P.V.C. SCHEDULE 40 OR EQUAL. MINIMUM SLOPE OF 1%. SLOPES GREATER THAN 5% SHALL BE PROHIBITED. ALL PRESSURE LINES SHALL BE PVC (CLASS 200 MINIMUM).
- THESE PLANS ARE FOR THE SOLE PURPOSE OF DESIGN, APPROVAL AND INSTALLATION OF THE PROPOSED ONSITE WASTEWATER TREATMENT SYSTEM ONLY, AND HAS NOTHING TO DO WITH THE CONSTRUCTION OF THE PROPOSED BUILDING SHOW OTHER THAN THE APPROXIMATE LOCATION AND ORIENTATION.
- THE USE OF GARBAGE DISPOSALS IS STRICTLY PROHIBITED.
- THE USE OF TUBS EQUAL TO OR GREATER THAN 100 GALLONS IS STRICTLY PROHIBITED.
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE RIDEM ONSITE WASTEWATER TREATMENT SYSTEMS REGULATIONS.
- BILL OF LADEN SHALL BE PROVIDED TO THE DESIGNER FOR ALL SYSTEM COMPONENTS.
- ACCESS LIDS SHALL WEIGH 59 lbs OR: SHALL BE TAMPER RESISTANT AND MECHANICALLY FASTENED. EACH ACCESS OPENING SHALL HAVE A LABEL STATING "ENTRANCE INTO THE TANK COULD BE FATAL".



TYPICAL SYSTEM PROFILE
NOT TO SCALE



TYPICAL SYSTEM CROSS SECTION
NOT TO SCALE

Concrete Chamber Access Notes:

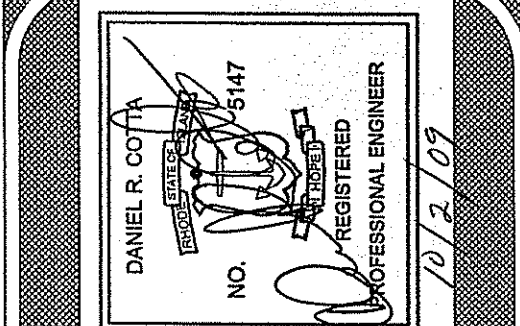
- The top of the chamber trench shall have an access opening into a chamber at intervals not greater than fifty (50) feet.
- Access openings shall have a watertight riser and shall be brought to finished grade.
- Lids shall be tamper resistant and mechanically fastened.
- Surface water shall be diverted away from the access openings.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
WASTEWATER WETLANDS PROGRAM
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DATED NOV - 5 2009 FILE #
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
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ONSITE WASTEWATER TREATMENT SYSTEM
FOR
ALBION COURT OF EXETER
LOCATED AT
South County Trail
Exeter, Rhode Island

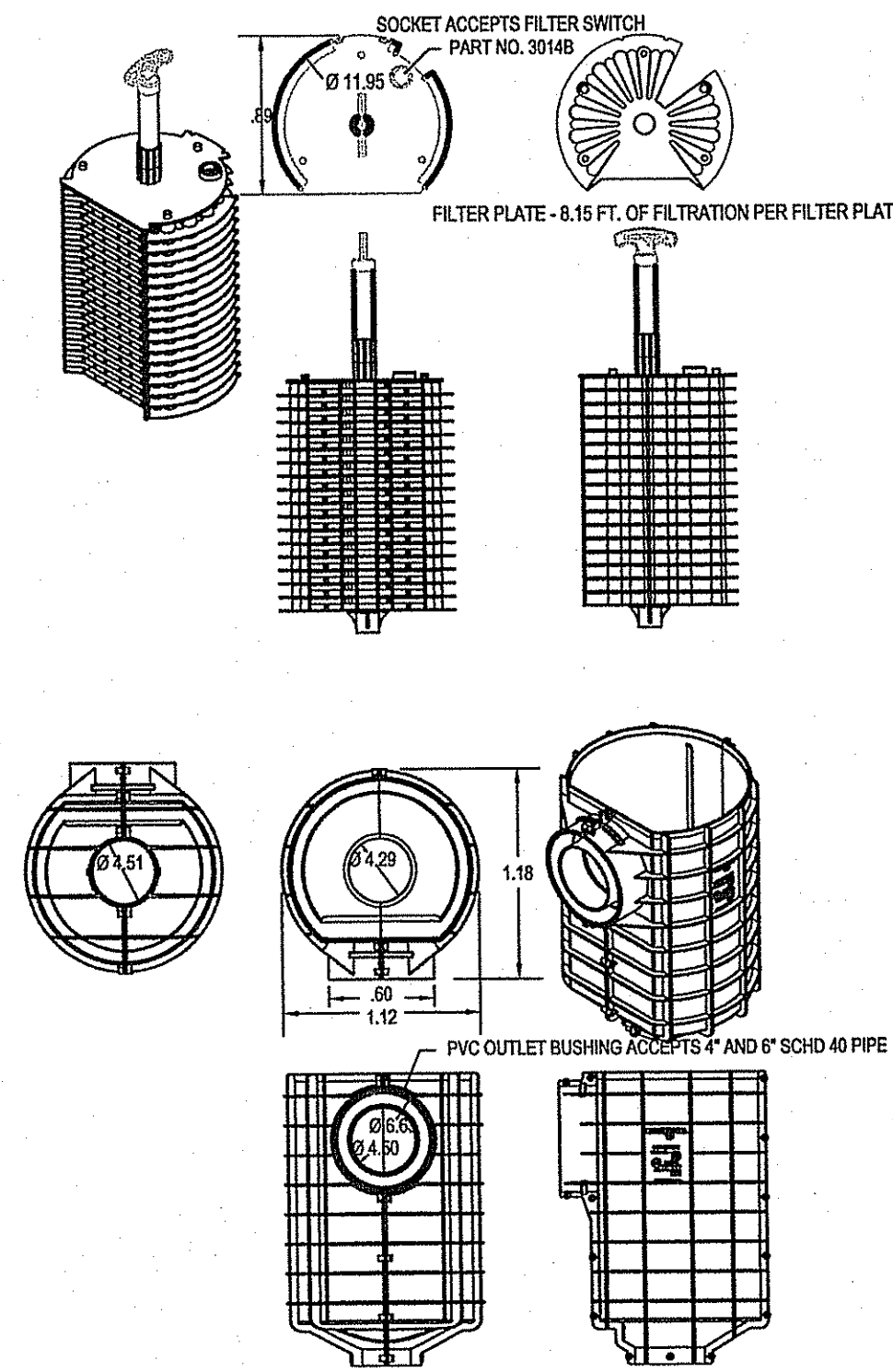
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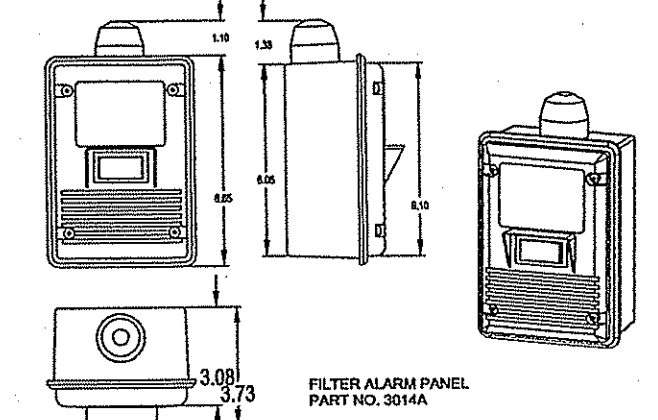
Sheet 12 of 19
C.6.0
of 1 sheets
Drawing No. _____
Dr. _____ Sh. _____

CUSTOMER: Septi-Tech, Inc
 JOB NAME: M3000H Processor Tank

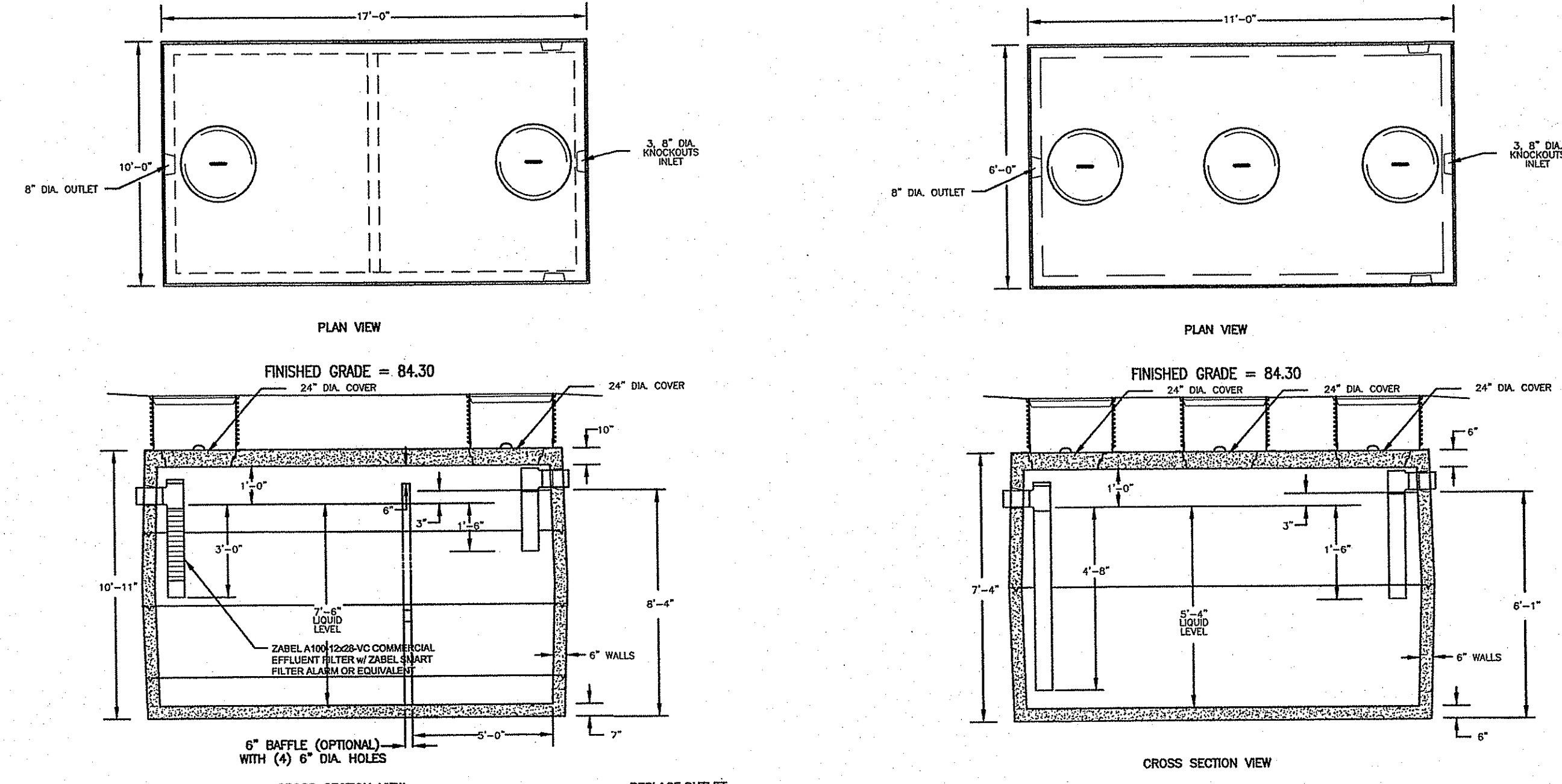


Specifications:
 Model A100-12x28-VC
 Diameter = 12.5"
 Height = 27.75"
 Filtration = 1/16"
 GPD = 4500

ZABEL A100-12x28-VC COMMERCIAL EFFLUENT FILTER SPECIFICATIONS



ZABEL 3014A Filter Alarm Panel



PRECAST SEPTIC TANK. (HS-20) 8,000 GALLONS.

NOTE: ALL 24" DIA. COVERS TO BE BROUGHT TO GRADE. SEPTIC TANK MUST BE CONSTRUCTED TO DIMENSIONS SHOWN (CERTIFIED WATERTIGHT IN FIELD)

NOTE: ACCESS LIDS SHALL WEIGH 59 lbs OR: SHALL BE TAMPER RESISTANT AND MECHANICALLY FASTENED. EACH ACCESS OPENING SHALL HAVE A LABEL STATING "ENTRANCE INTO THE TANK COULD BE FATAL".

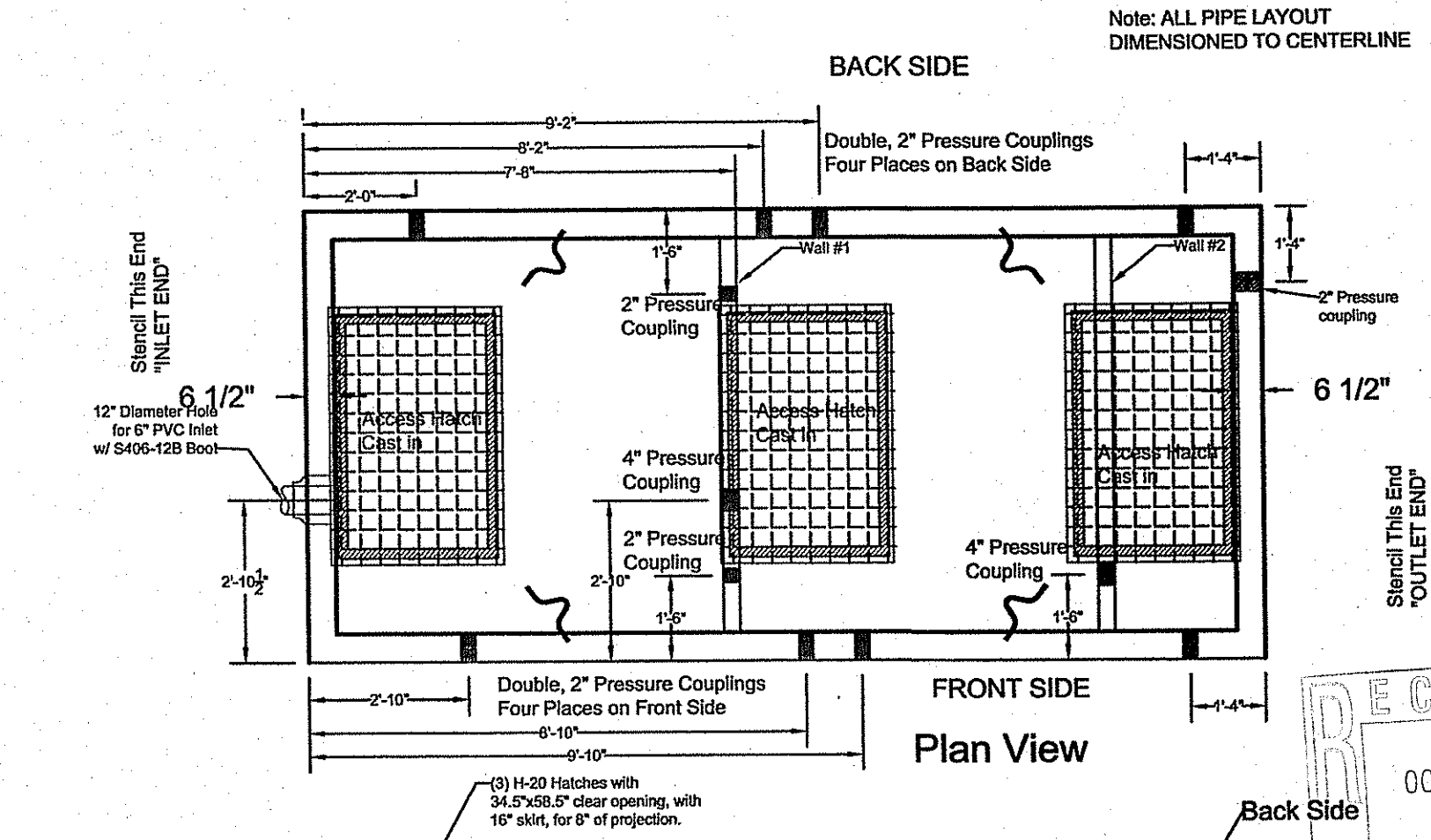
ALL PRE-ASSEMBLED SEPTIC TANKS SHALL BE CERTIFIED WATER TIGHT BY THE MANUFACTURER. ALL TANKS ASSEMBLED ON-SITE SHALL BE CERTIFIED WATERTIGHT IN THE FIELD. CERTIFICATE BY MANUFACTURER OR FROM ON-SITE TESTING SHALL BE INCLUDED WITH BILL OF LADEN.

PRECAST GREASE TRAP. (HS-20) 2,000 GALLONS.

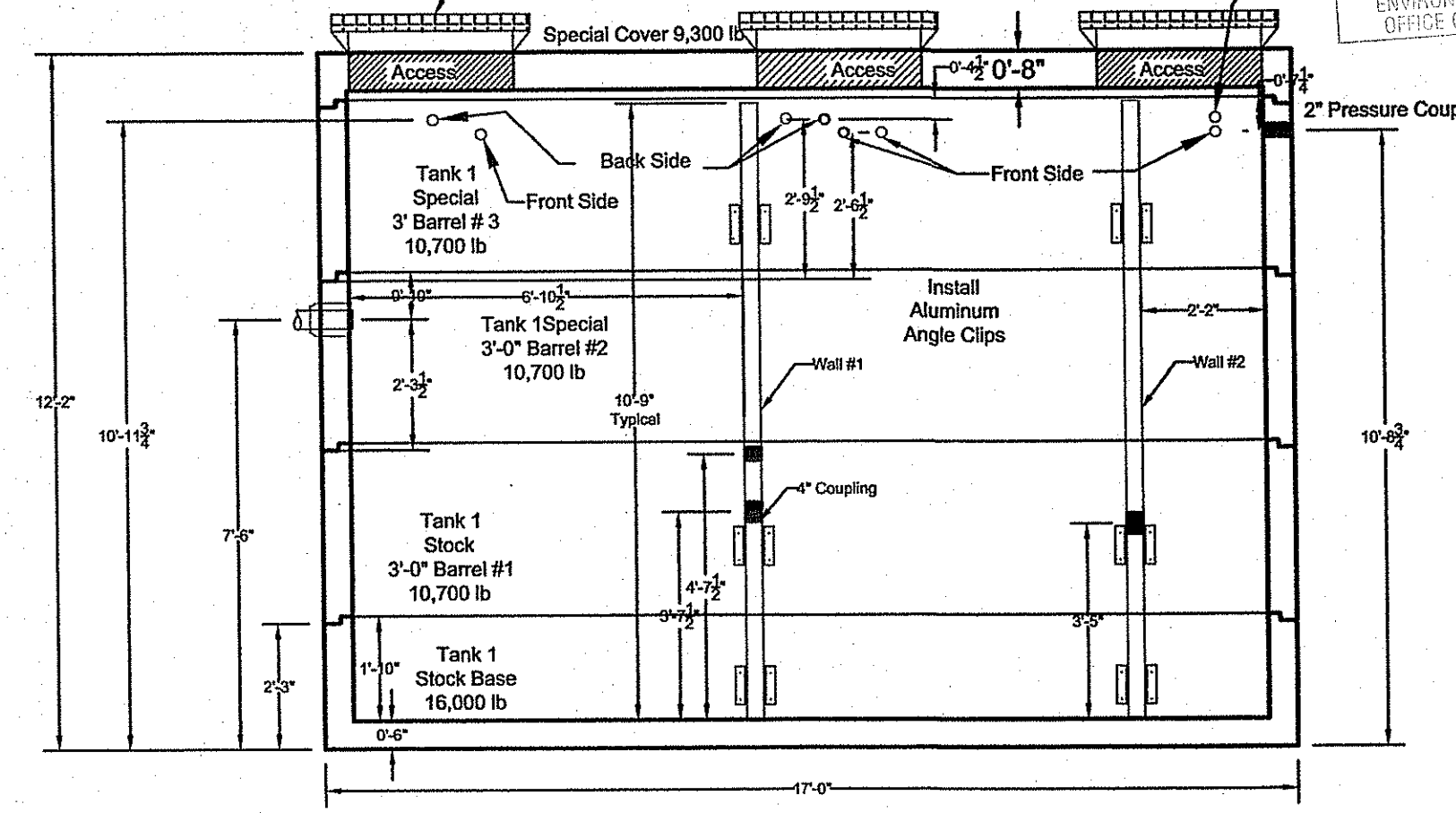
NOTE: ALL 24" DIA. COVERS TO BE BROUGHT TO GRADE. GREASE TRAP MUST BE CONSTRUCTED TO DIMENSIONS SHOWN (CERTIFIED WATERTIGHT IN FIELD)

NOTE: ACCESS LIDS SHALL WEIGH 59 lbs OR: SHALL BE TAMPER RESISTANT AND MECHANICALLY FASTENED. EACH ACCESS OPENING SHALL HAVE A LABEL STATING "ENTRANCE INTO THE TANK COULD BE FATAL".

ALL PRE-ASSEMBLED TANKS SHALL BE CERTIFIED WATER TIGHT BY THE MANUFACTURER. ALL TANKS ASSEMBLED ON-SITE SHALL BE CERTIFIED WATERTIGHT IN THE FIELD. CERTIFICATE BY MANUFACTURER OR FROM ON-SITE TESTING SHALL BE INCLUDED WITH BILL OF LADEN.



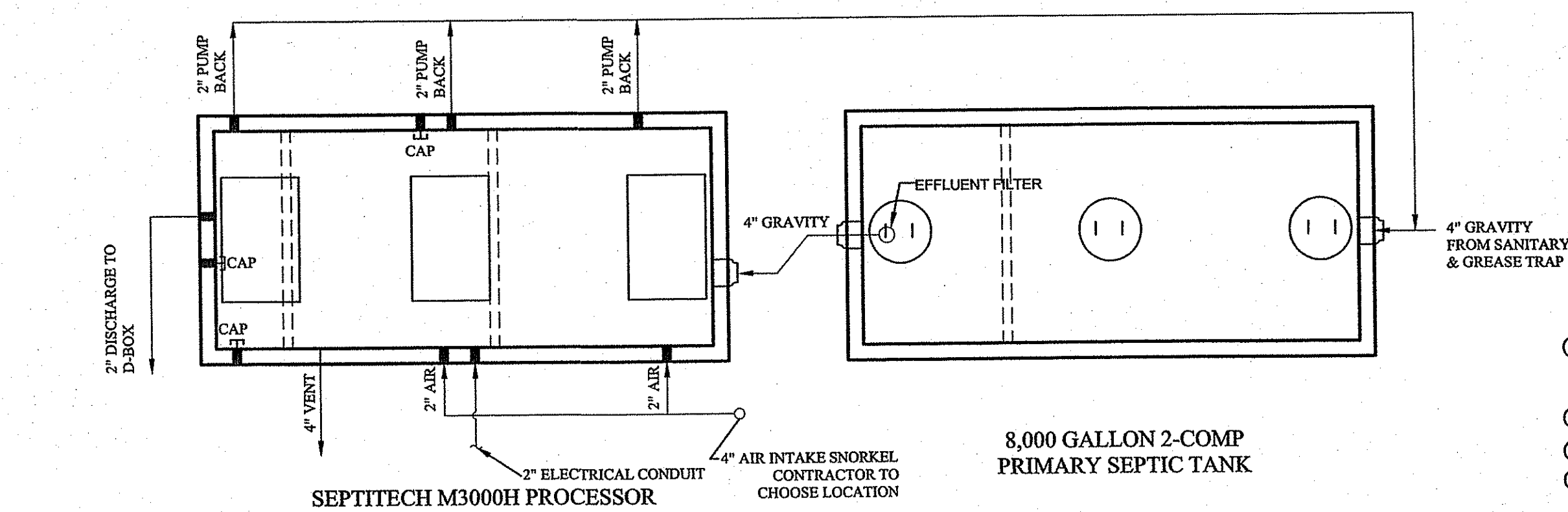
Plan View



(CERTIFIED WATERTIGHT IN FIELD)

NOTE: ACCESS LIDS SHALL WEIGH 59 lbs OR: SHALL BE TAMPER RESISTANT AND MECHANICALLY FASTENED. EACH ACCESS OPENING SHALL HAVE A LABEL STATING "ENTRANCE INTO THE TANK COULD BE FATAL".

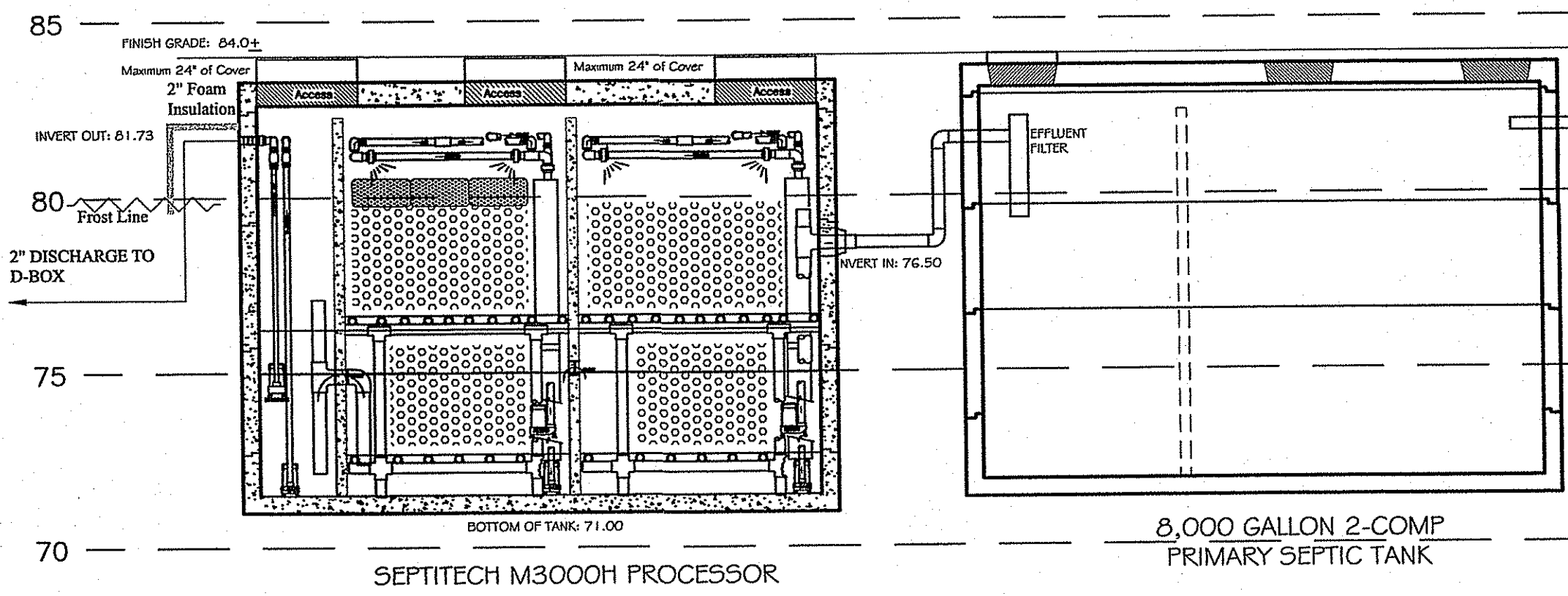
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SEPTITECH M3000H PROCESSOR

8,000 GALLON 2-COMP PRIMARY SEPTIC TANK

IMPORTANT NOTE: All piping above the frost line and exterior to the SeptiTech processor, including the discharge line from the processor to the disposal field, shall be insulated with 2" rigid foam insulation.



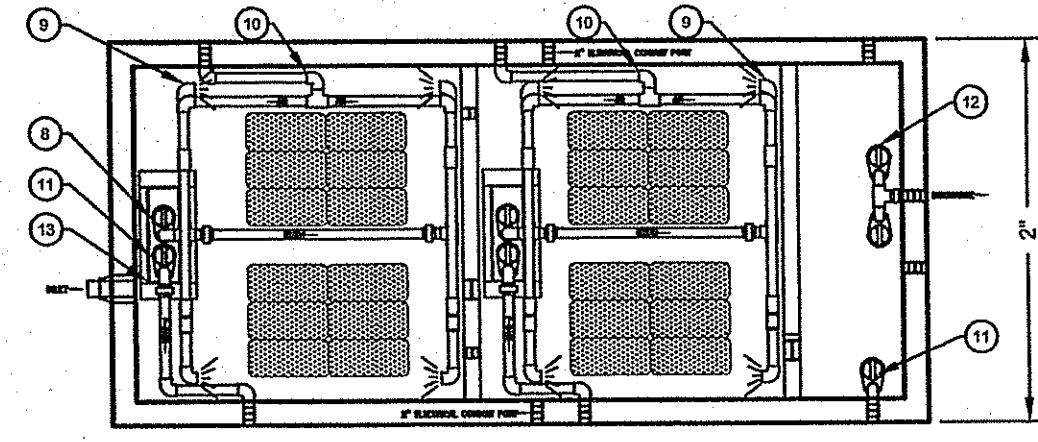
SEPTITECH M3000H PROCESSOR

8,000 GALLON 2-COMP PRIMARY SEPTIC TANK

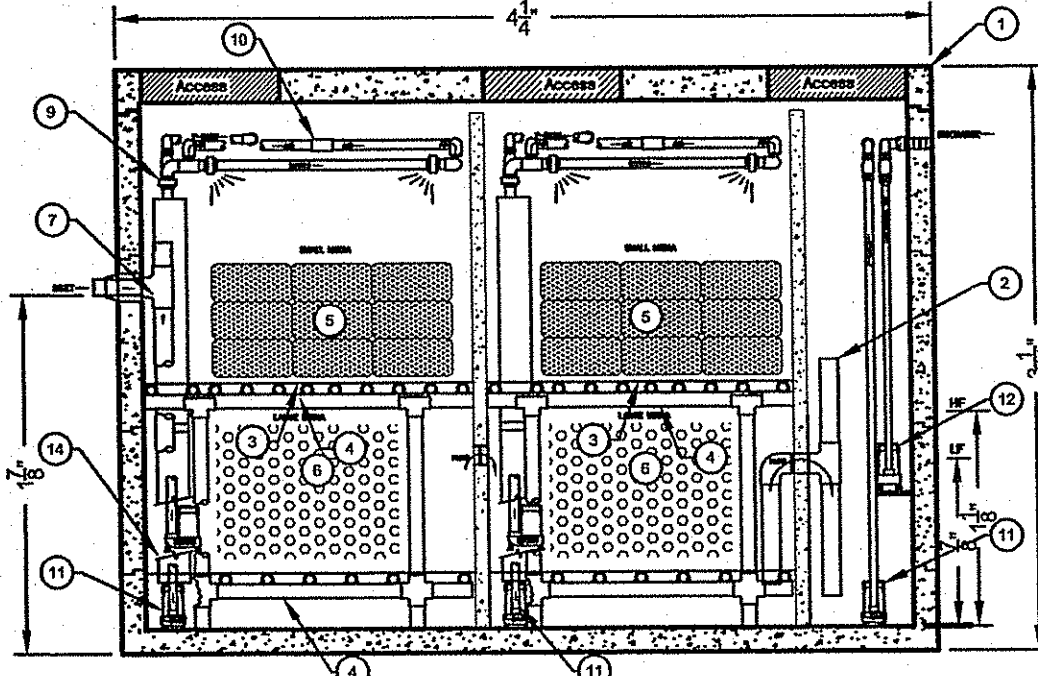
NOTE: ALL 24" DIA. COVERS TO BE BROUGHT TO GRADE. GREASE TRAP MUST BE CONSTRUCTED TO DIMENSIONS SHOWN (CERTIFIED WATERTIGHT IN FIELD)

NOTE: ACCESS LIDS SHALL WEIGH 59 lbs OR: SHALL BE TAMPER RESISTANT AND MECHANICALLY FASTENED. EACH ACCESS OPENING SHALL HAVE A LABEL STATING "ENTRANCE INTO THE TANK COULD BE FATAL".

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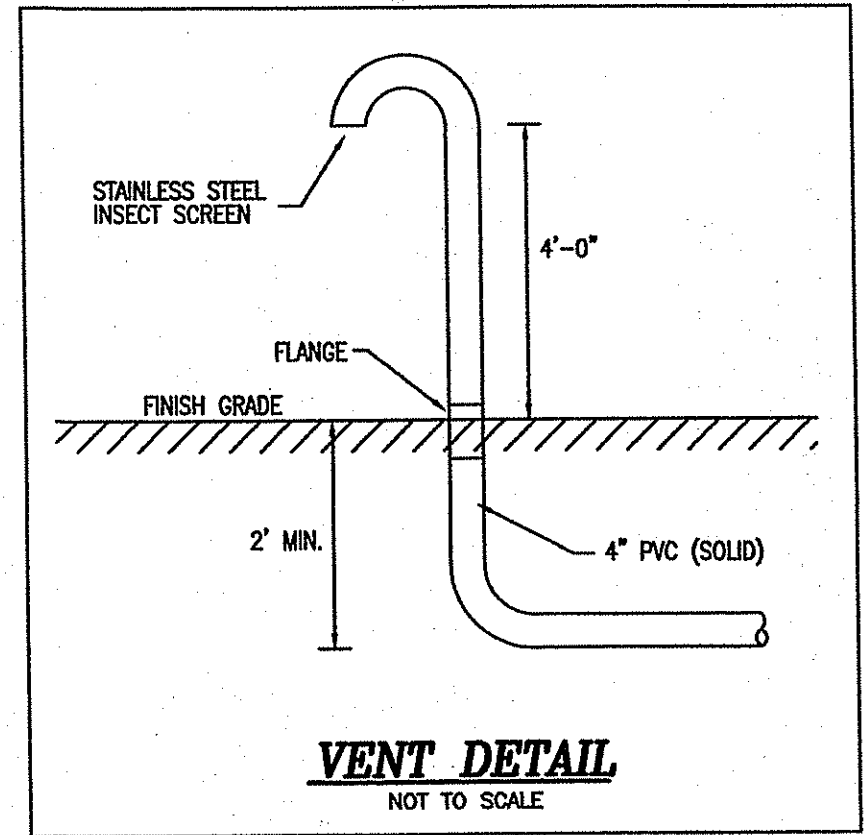
TOP VIEW



ELEVATION VIEW

ITEM	QTY.	PART NO.	DESCRIPTION
11	2	48899	Pump Back Chain Assembly
12	2	48899	Pump Chain Assembly
13	1	48899	Dual Discharge Pump Assembly
14	3	48899	Pump Back Pump
15	2	48899	Blower Air Handler Assembly
9	2	48899	Blower Assembly
8	2	48899	Recirc Pump
7	1	48899	Wall Piping Assembly
6	2	48899	Large Media
5	2	48899	Small Media
4	4	48899	Support Structure
3	2	48899	Screening Assembly
2	1	48899	Inlet Piping Assembly
1	1	48899	8000 Gall. Concrete Tank
ITEM QTY. PART NO. DESCRIPTION			

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED **NOV - 6 2009** FILE #
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.



VENT DETAIL
 NOT TO SCALE

- GENERAL NOTES**
- Tank(s) shall not be installed at a depth any greater than 24-inches. Tank installations requiring a depth greater than 24-inches shall do so with prior approval by SeptiTech only. Any risers required to bring the aluminum hatches to grade are the responsibility of the contractor.
 - Tank(s) shall be installed with a minimum of 12-inches of compacted crushed stone bedding. Select fill shall be used for backfilling around tanks. Native material may be used if approved by the design engineer.
 - Water Testing: Contractor is responsible for water testing the concrete tank(s) once the tank(s) installation has been completed and allowed to set overnight. Water testing shall be conducted in accordance with ASTM C1227.9.2. Installing contractor shall be responsible for providing clean water for the testing, filling the tanks, and pumping the tanks dry once testing is completed.
 - Exterior Piping: Contractor is responsible for supplying and installing all exterior piping per SeptiTech installation drawings.
 - Air Intake Piping: Air intake snorkel shall be installed within 100 feet of the processor tank. Air intake piping shall be installed such that a positive pitch is provided back towards the processor tank such that any condensation build up is free to drain.
 - Pipe Insulation: Contractor is responsible for insulating all piping exterior to the SeptiTech processor including the discharge line from the processor to the disposal field.
 - Tank Insulation: After concrete tanks have been installed and water testing is completed, contractor shall insulate the top and sides of the processor tank below frost depth (4-foot minimum) down the sides of the tank with 2" rigid foam (blue) board insulation and then complete backfilling. Contractor is also responsible for installing insulation over the top of the formwork from the SeptiTech system to the disposal field if not buried below frost level in order to prevent freezing.
 - Electrical: All electrical work is the responsibility of the contractor's licensed electrician and is not provided by SeptiTech. System Controller should be installed in a heated building where an ambient temperature range of 60 to 90 degrees F is maintained. If the control panel must be located outside, please notify SeptiTech, Inc. so a heater may be installed within the enclosure.
- SeptiTech processors can also be built to 3-phase power requirements. If 3-phase is required, please notify SeptiTech at the time of contract signing.
- Phone Line: Contractor is responsible for installing a dedicated analog phone line to the processor control panel for the auto-dialer system. Phone line must be installed and working in order to have any work performed under warranty. Any work performed on the system without the installation of the phone line shall be at the expense of the owner.

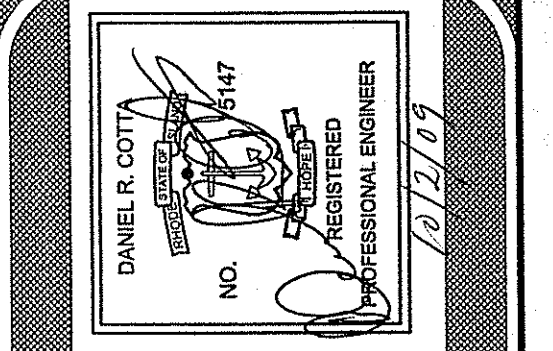
OWTS DETAILS FOR
ALBION COURT OF EXETER
 LOCATED AT
 South County Trail
 Exeter, Rhode Island

Checked By: DRC
 Date: 7/14/2009

Drawn By: ERM
 Scale: As Shown

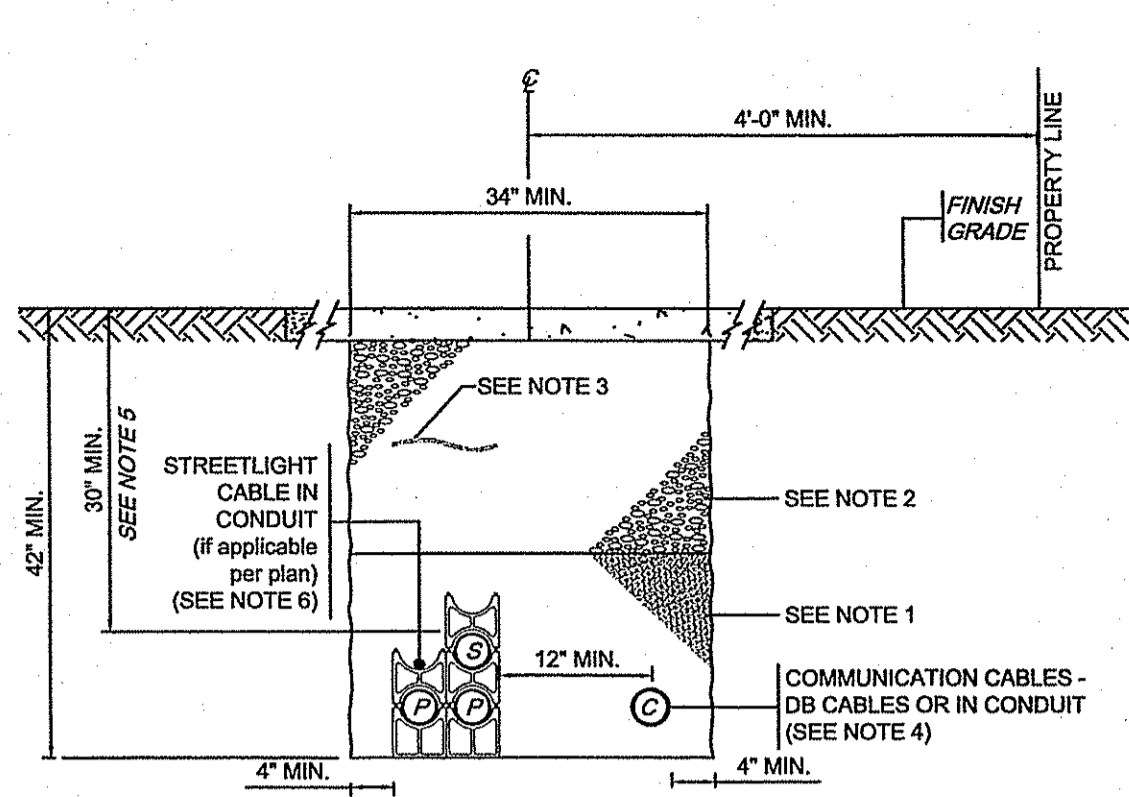
NO. REVISION

DATE



AMERICAN ENGINEERING, INC.
 Daniel R. Cotta Professional Engineer / Professional Land Surveyor
 400 South County Trail - Suite A 201
 Exeter, Rhode Island 02822
 Phone (401) 294-4090 / Fax (401) 294-9625

Sheet 13 of 19
C.6.1
 of 1 sheets
 Drawing No. _____ Sh. _____



2 PRIMARY CONDUITS, 1 SECONDARY CONDUIT & 1 STREETLIGHT C/C (if applicable per plan)

ELECTRIC, TELEPHONE & CABLE CROSS-SECTION

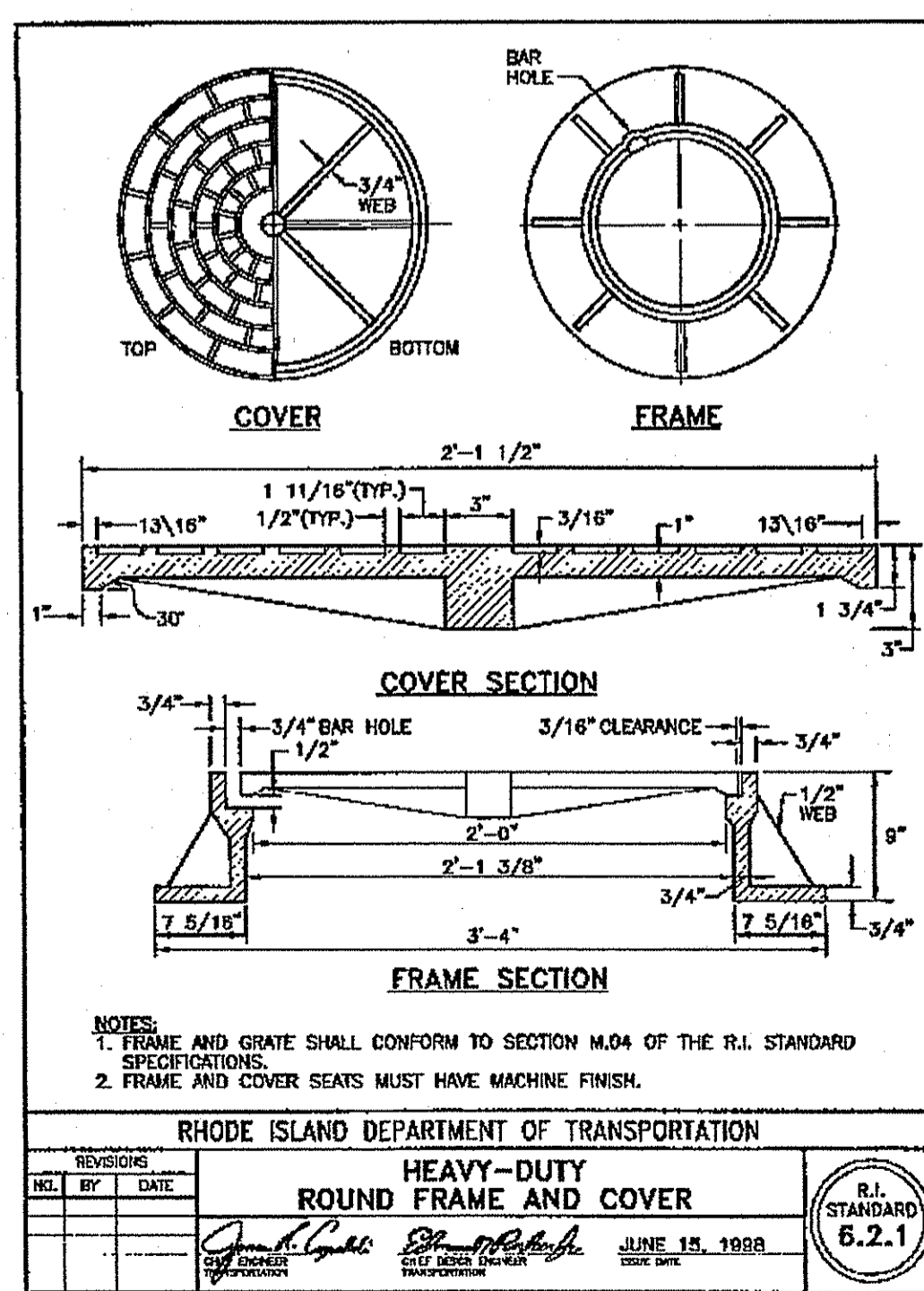
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DISCLAIMER:

The Electric, Telephone and Cable Detail as depicted above is intended to be used as a guide for estimating purposes only. Construction shall be per specifications as issued by the appropriate utility company.

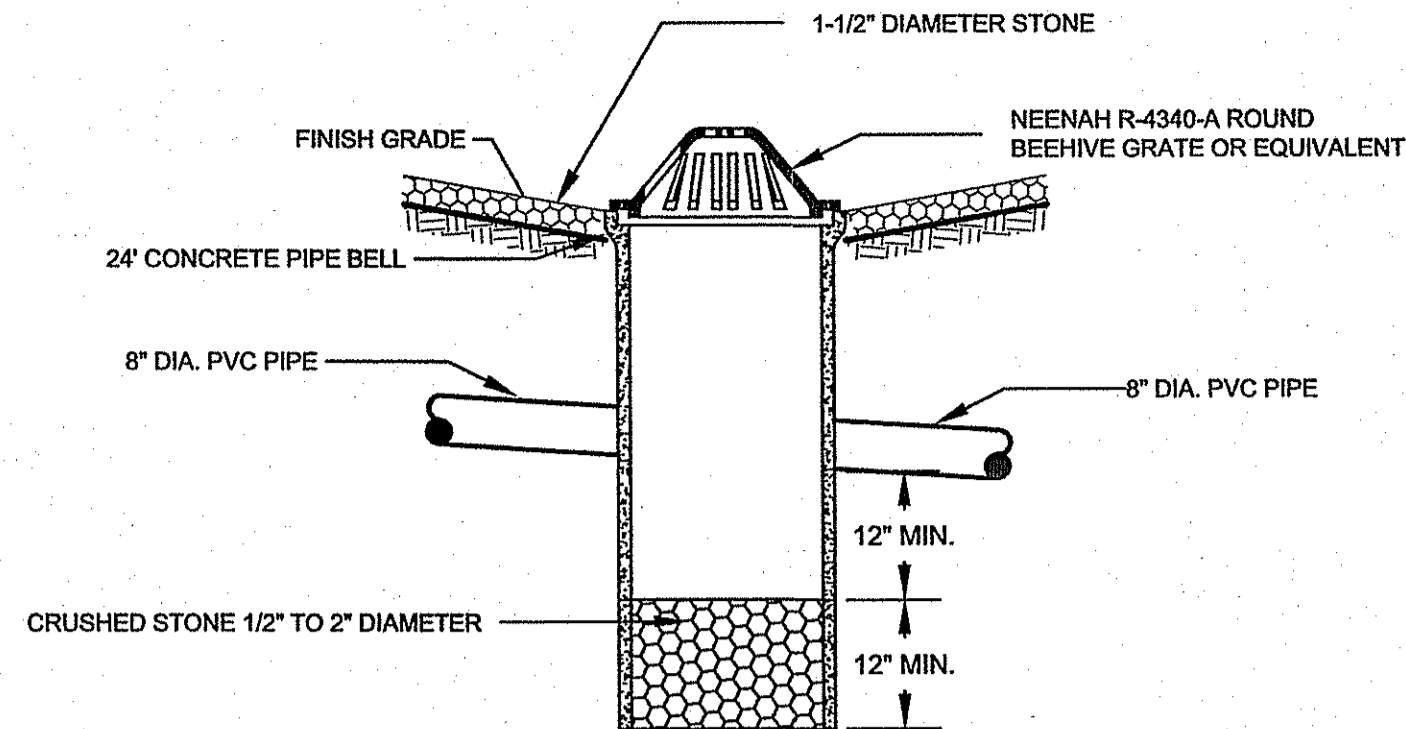
NOTE:

Heavy-Duty Frame and Cover to be utilized in all areas subject to vehicular traffic.

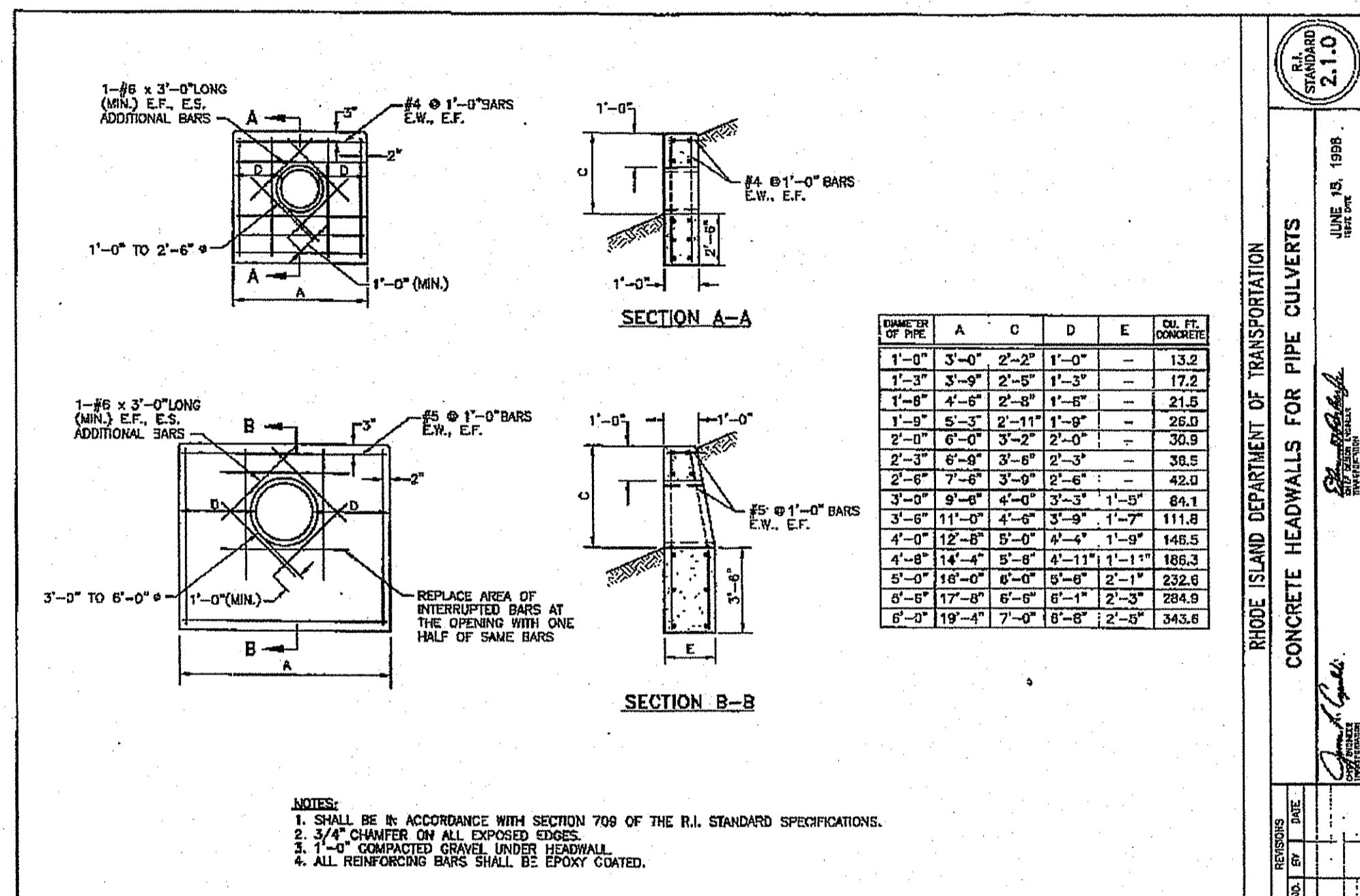


- FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
- FRAME AND COVER SEATS MUST HAVE MACHINE FINISH.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
HEAVY-DUTY ROUND FRAME AND COVER
R.I. STANDARD 6.2.1
JUNE 15, 1998



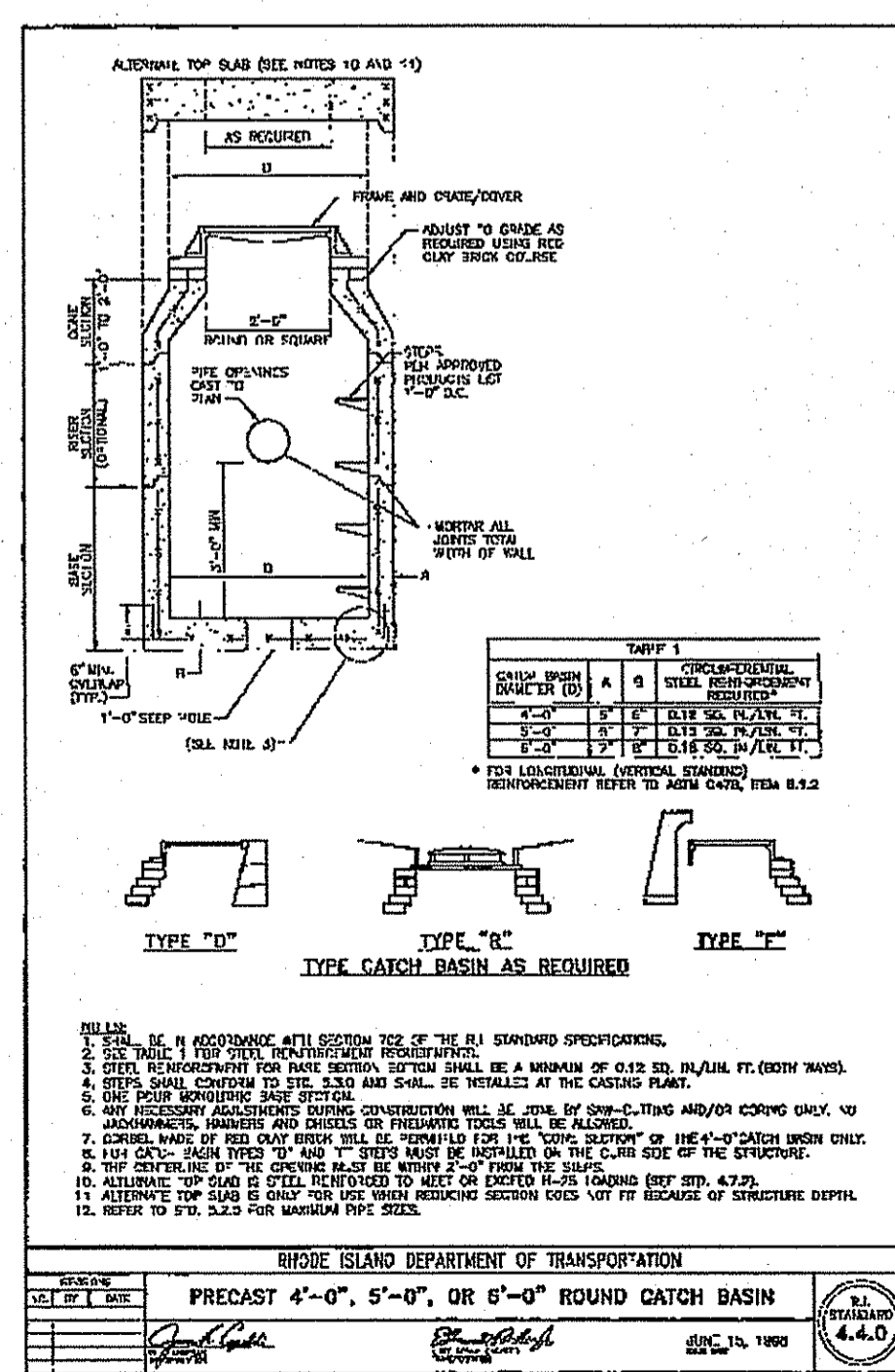
SPECIAL CATCH BASIN DETAIL
Yard Drains - Series 10, 11, 12 and 13 (A & B)
NOT TO SCALE



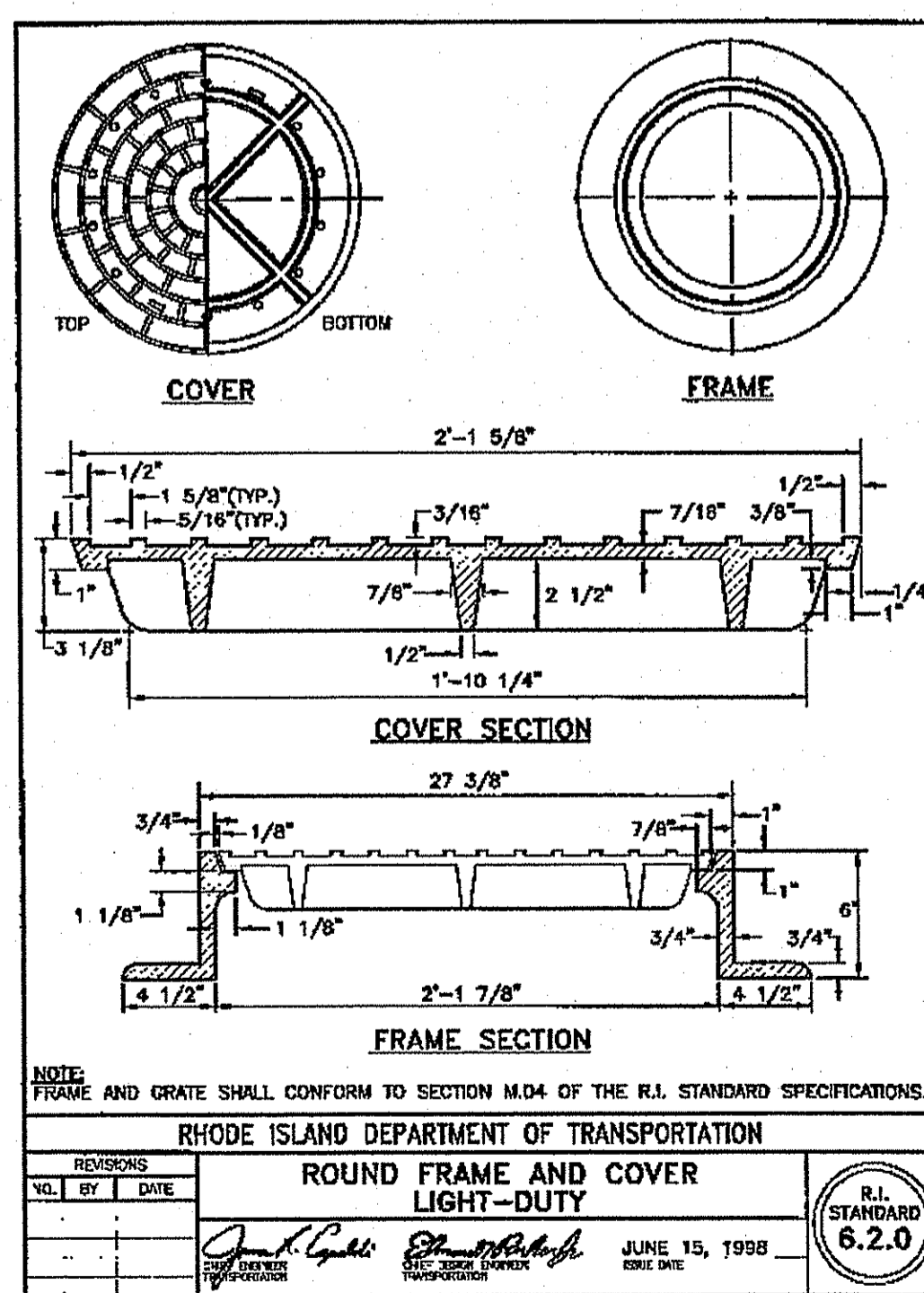
- SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE R.I. STANDARD SPECIFICATIONS.
- 3/4" CHAMFER ON ALL EXPOSED EDGES.
- 1 1/2" COMPACTED GRAVEL UNDER HEADWALL.
- ALL REINFORCING BARS SHALL BE EPOXY COATED.

NOTE:

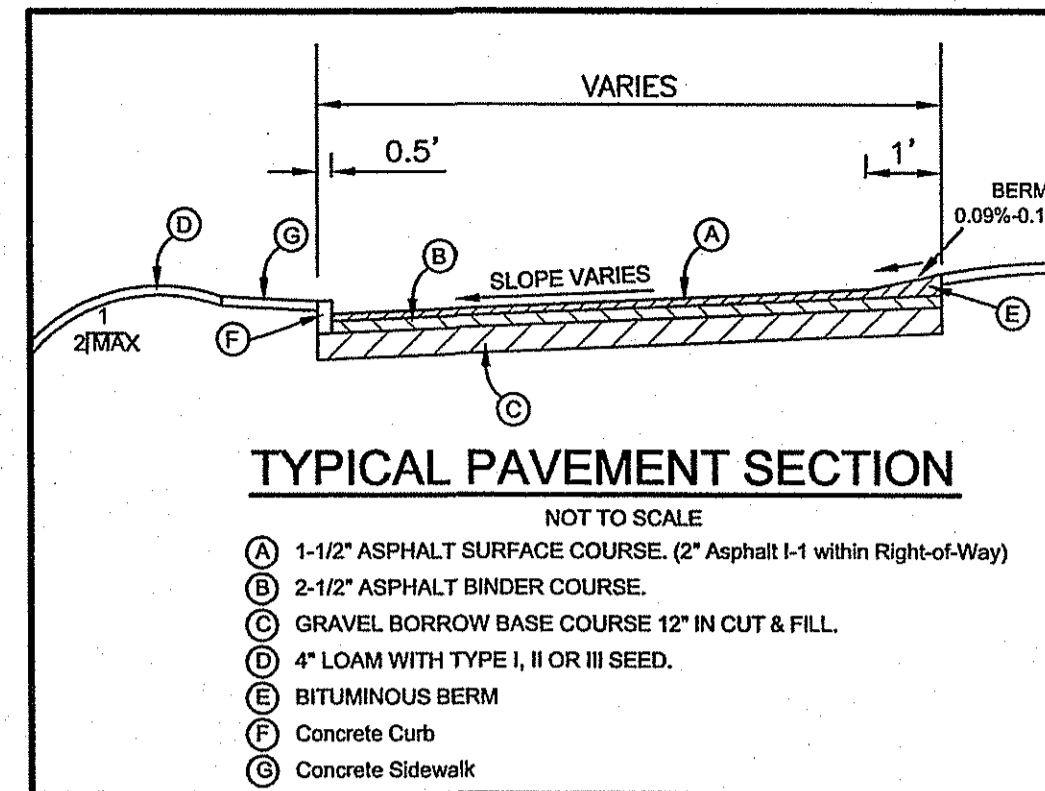
All Catch Basins to be installed with 4' deep sumps and shall be equipped with a snout or inverted elbow extending 2' from the bottom of the drain.



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
ROUND FRAME AND COVER LIGHT-DUTY
R.I. STANDARD 6.2.0
JUNE 15, 1998

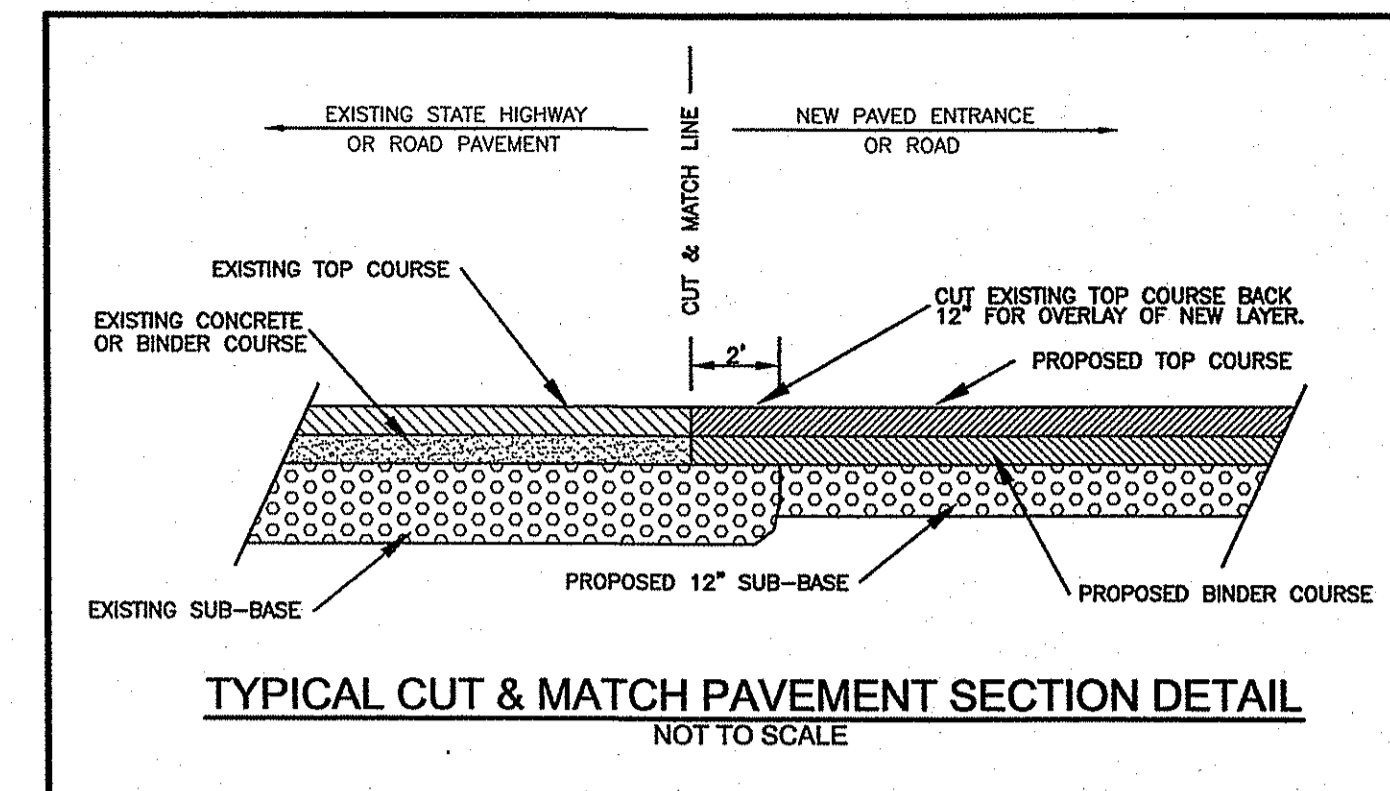


RHODE ISLAND DEPARTMENT OF TRANSPORTATION
ROUND FRAME AND COVER LIGHT-DUTY
R.I. STANDARD 6.2.0
JUNE 15, 1998

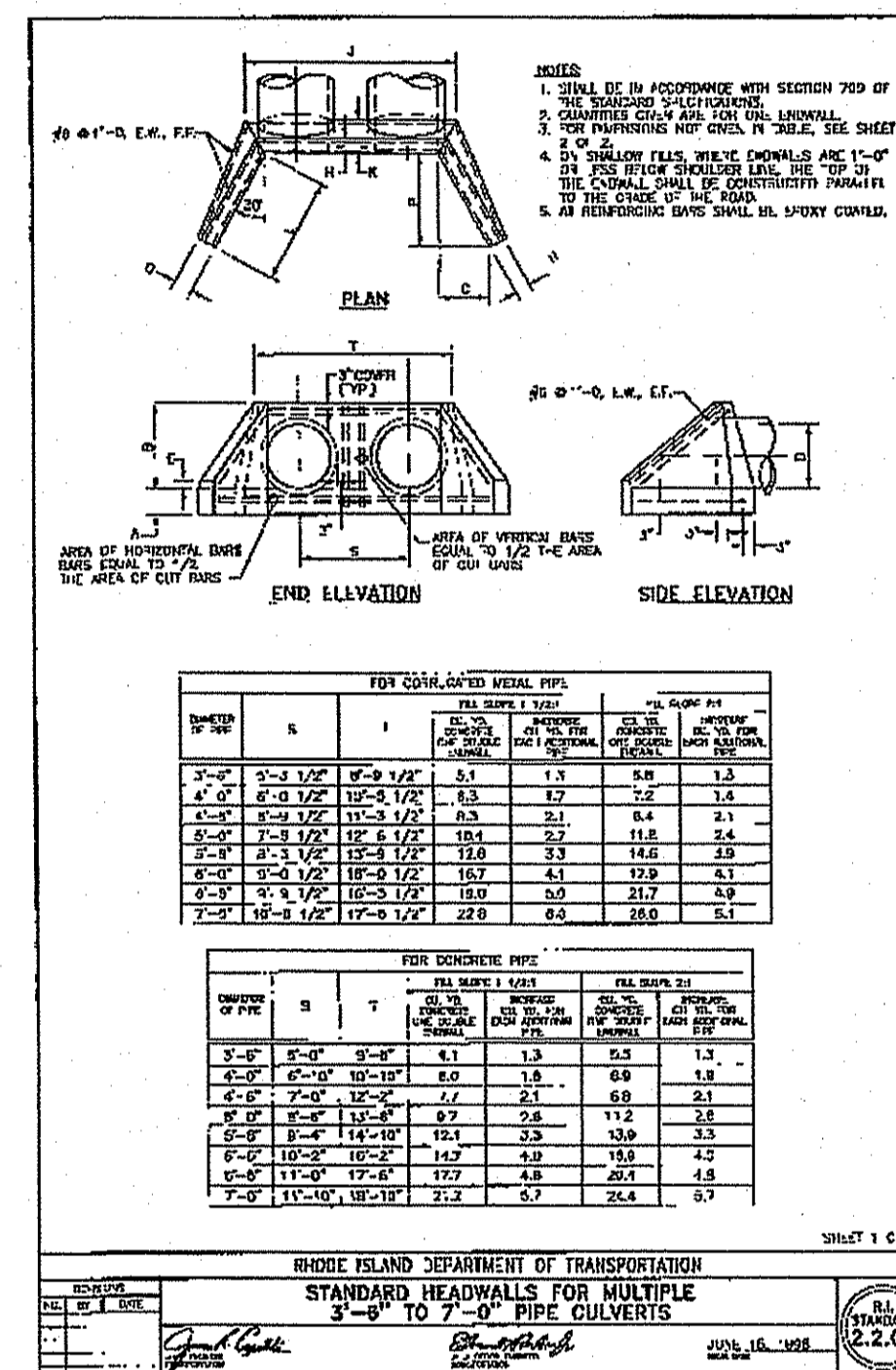


TYPICAL PAVEMENT SECTION

- NOT TO SCALE
- 1-1/2" ASPHALT SURFACE COURSE. (2" Asphalt 1-1 within Right-of-Way)
 - 2-1/2" ASPHALT BINDER COURSE.
 - GRAVEL BORROW BASE COURSE 12" IN CUT & FILL.
 - 4" LOAM WITH TYPE I, II OR III SEED.
 - BUTIMINOUS BERM
 - Concrete Curb
 - Concrete Sidewalk

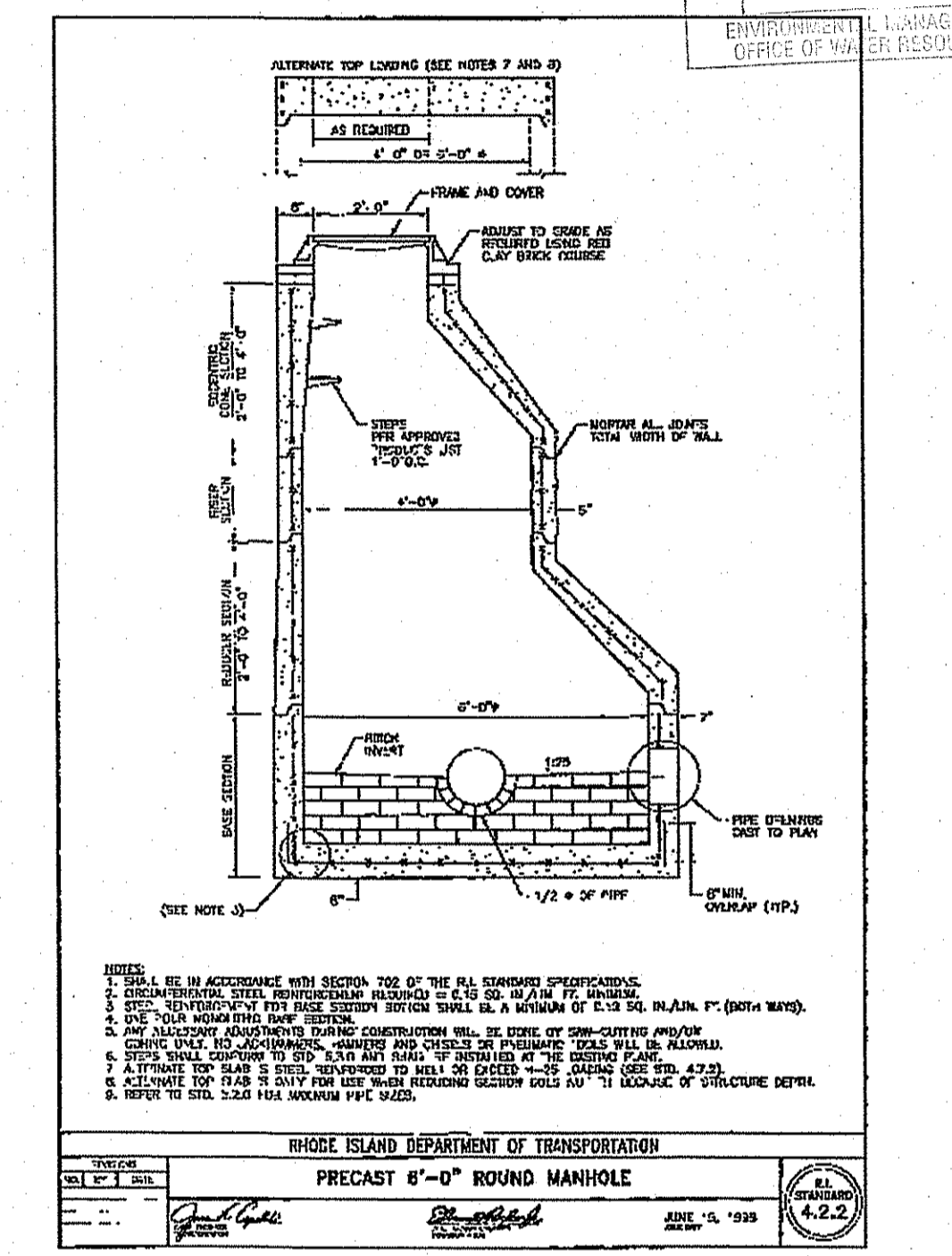


TYPICAL CUT & MATCH PAVEMENT SECTION DETAIL

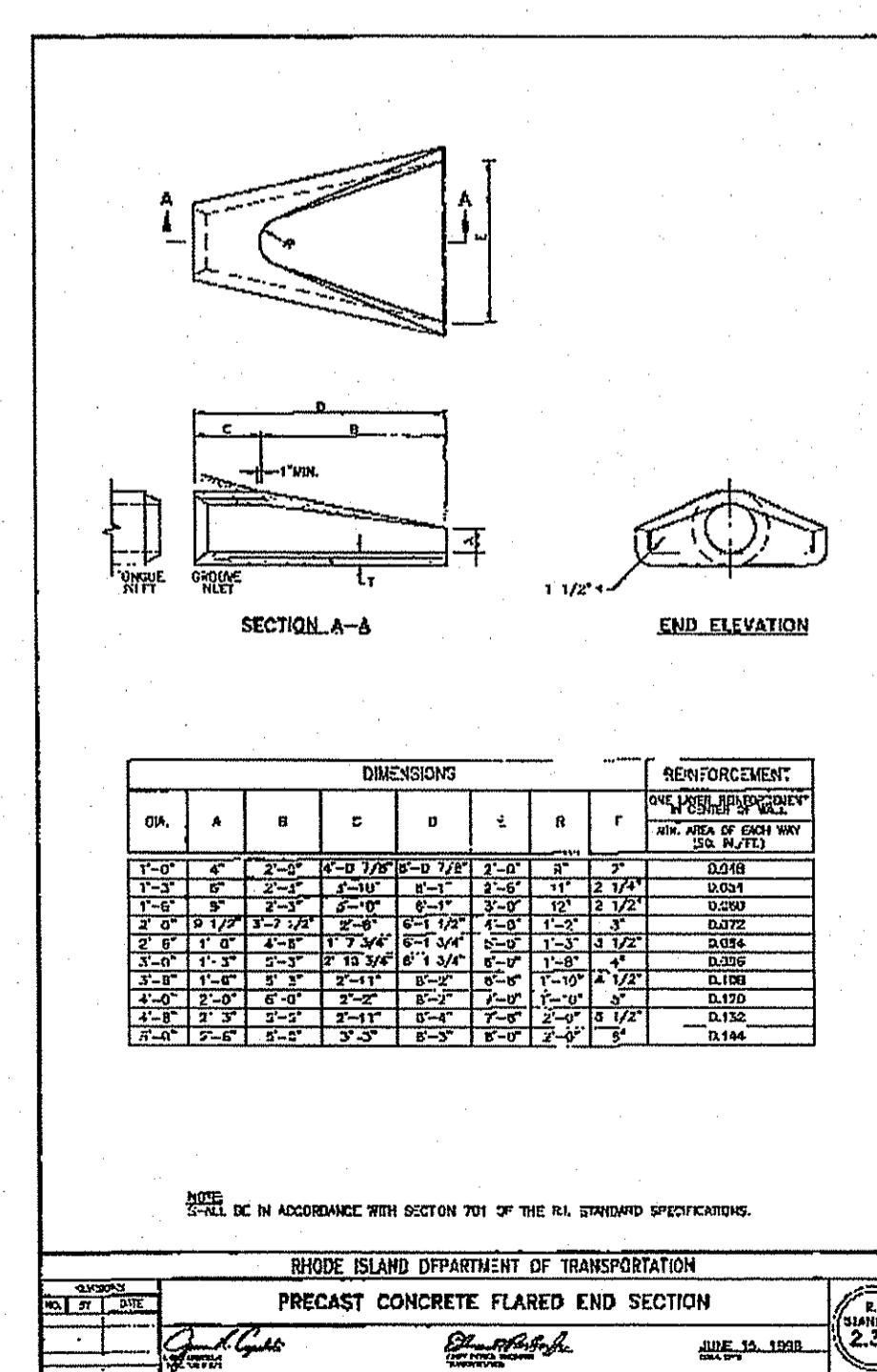


PIPE SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
2'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"

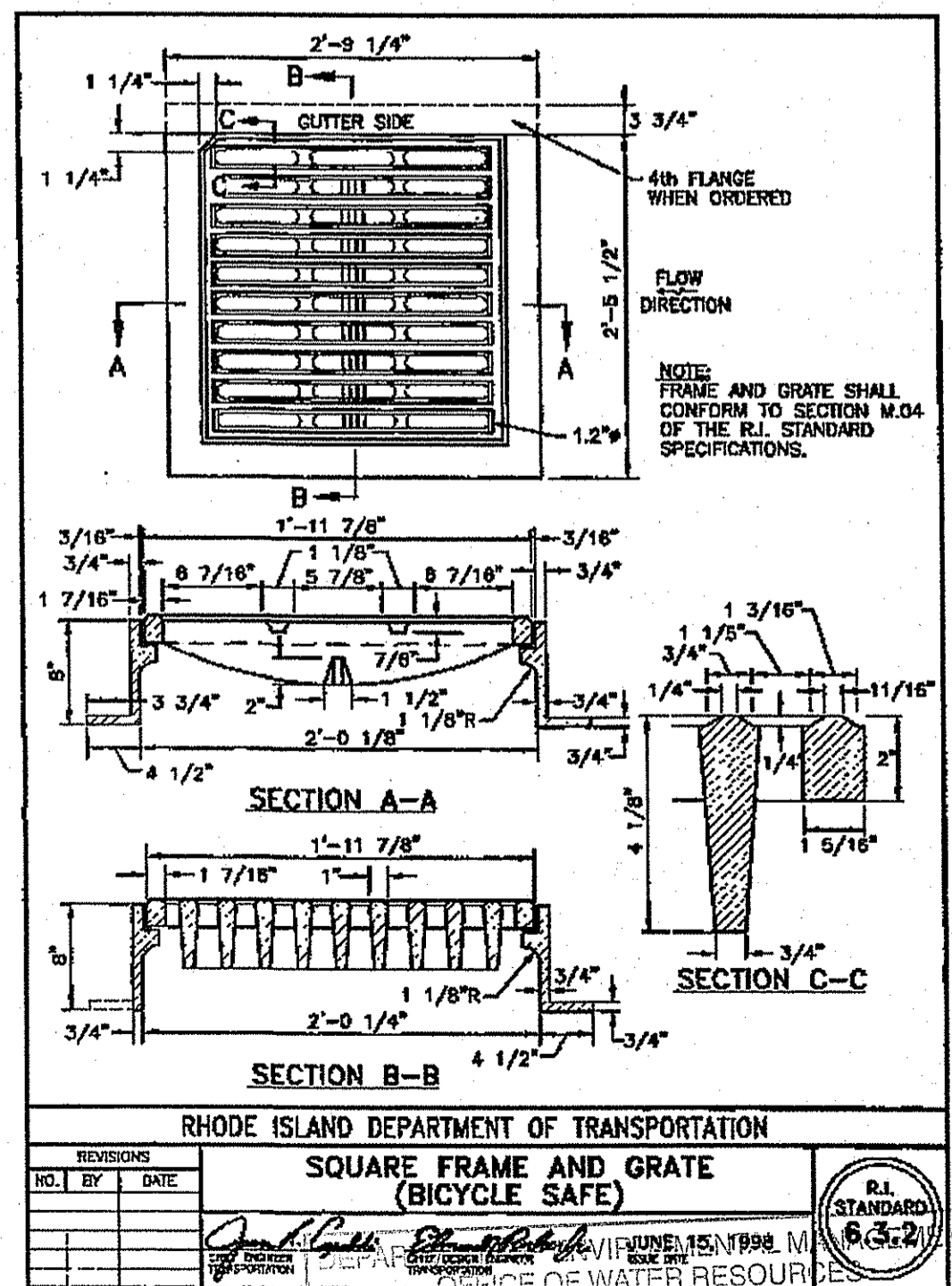
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
STANDARD HEADWALLS FOR MULTIPLE 2'-0" PIPE CULVERTS
R.I. STANDARD 2.2.0A
JUNE 15, 1998



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST 6'-0" ROUND MANHOLE
R.I. STANDARD 4.2.2
JUNE 15, 1998



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE FLARED END SECTION
R.I. STANDARD 6.2.0
JUNE 15, 1998



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
SQUARE FRAME AND GRATE (BICYCLE SAFE)
R.I. STANDARD 6.3.2
JUNE 15, 1998

FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
NOV 10 2009
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL. APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

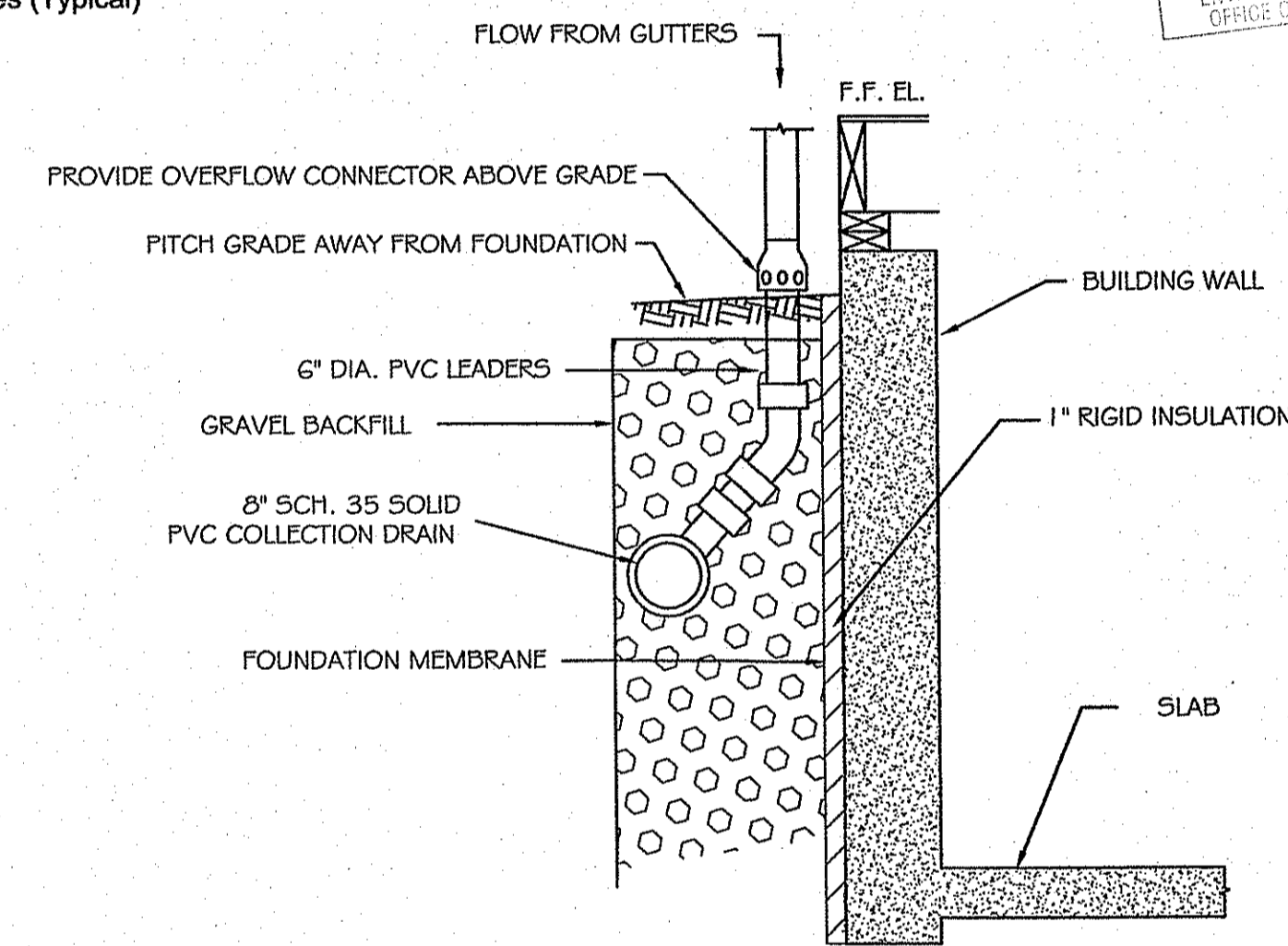
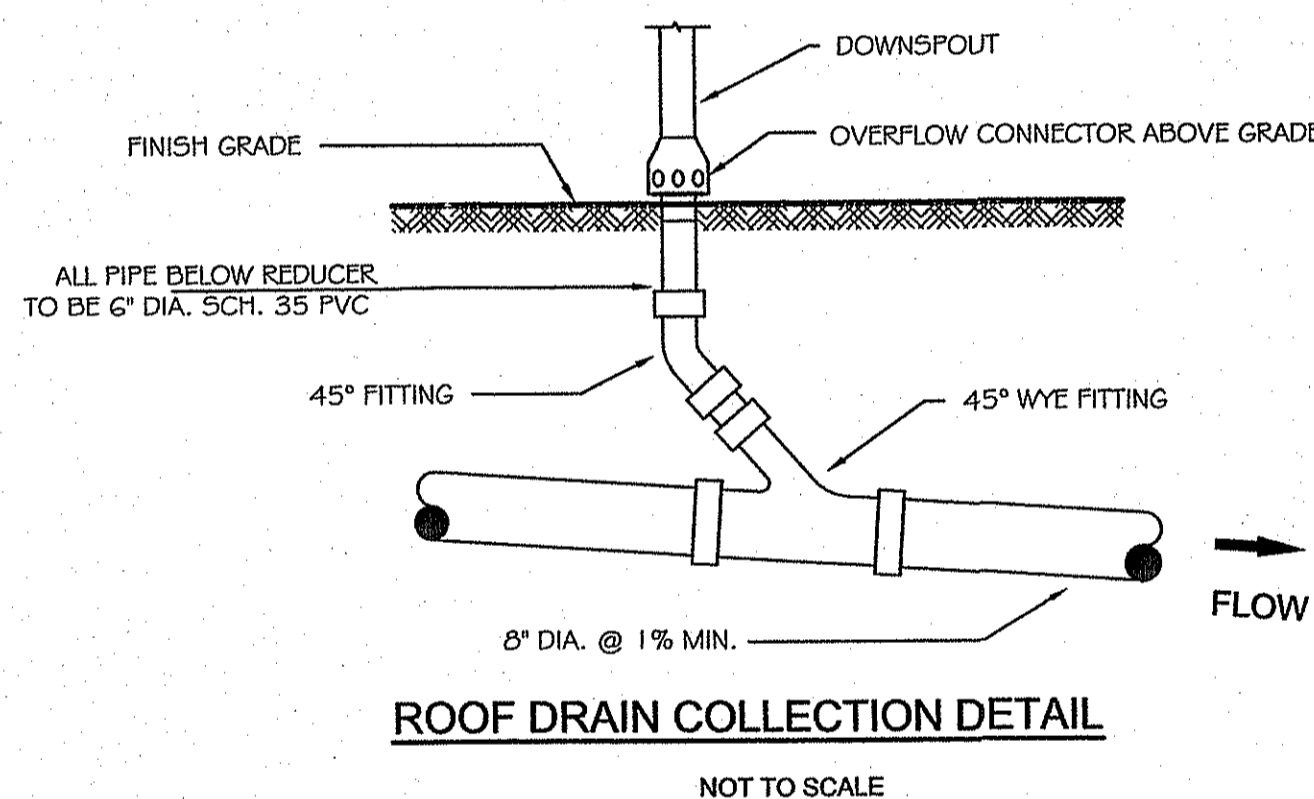
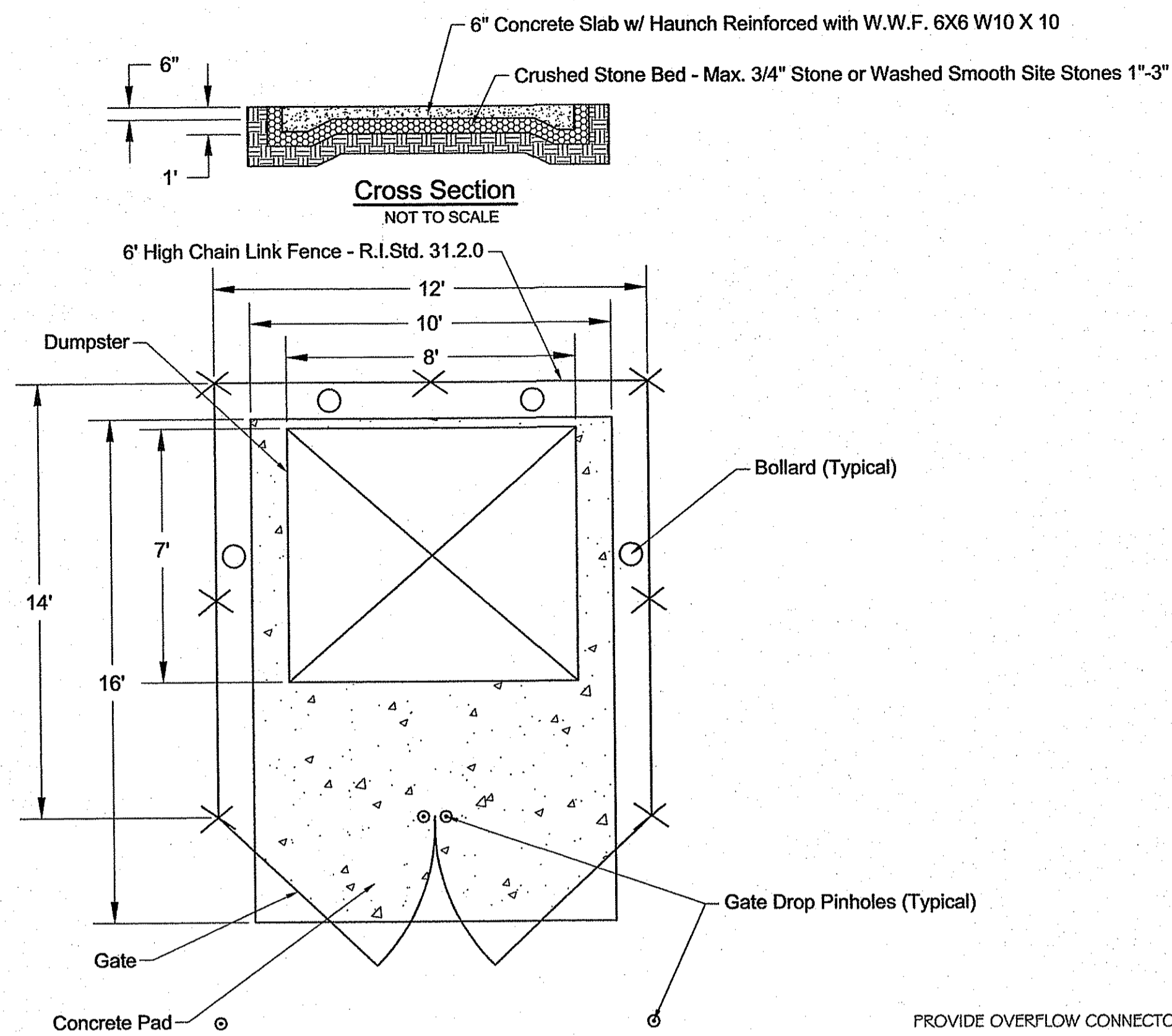
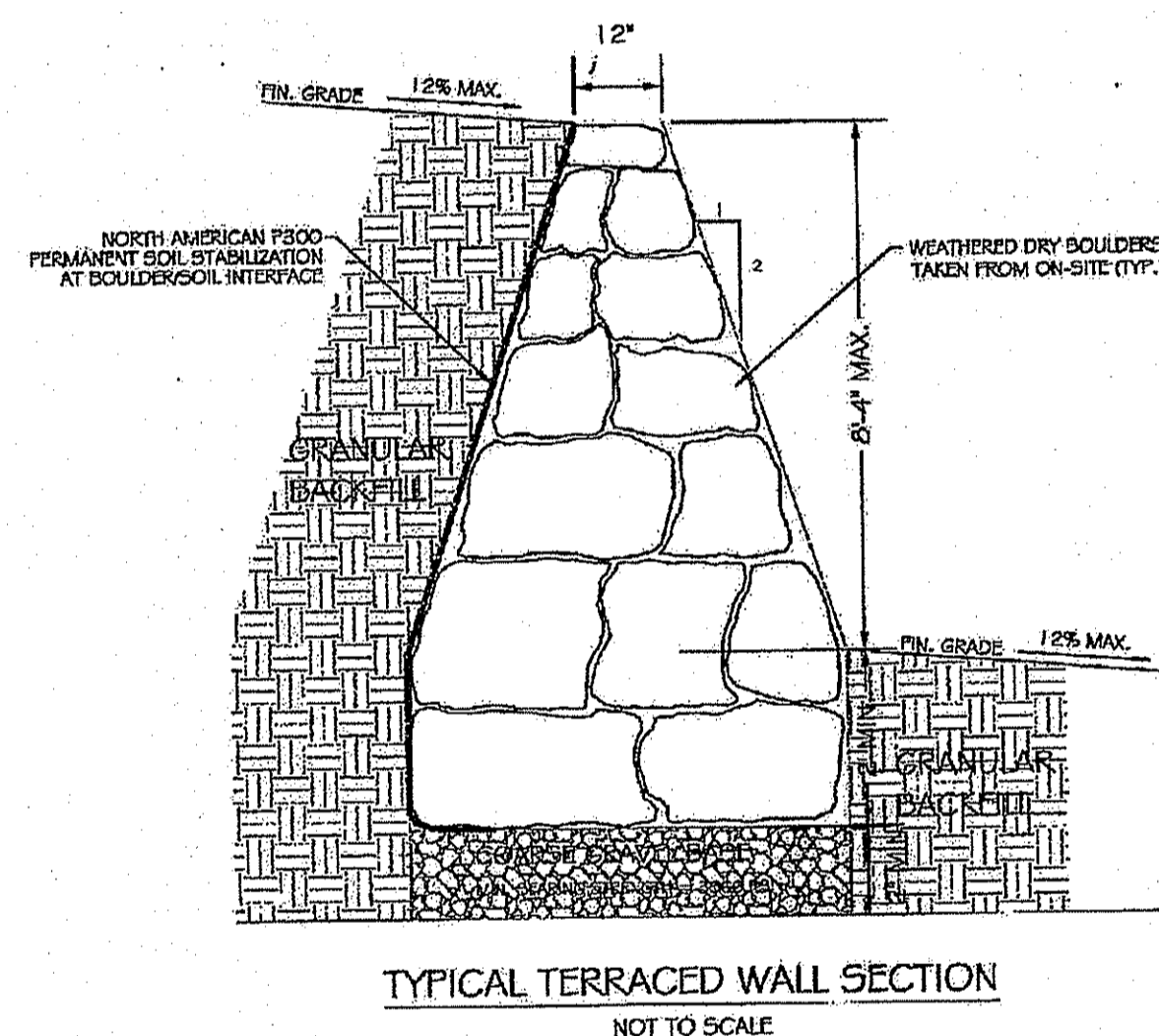
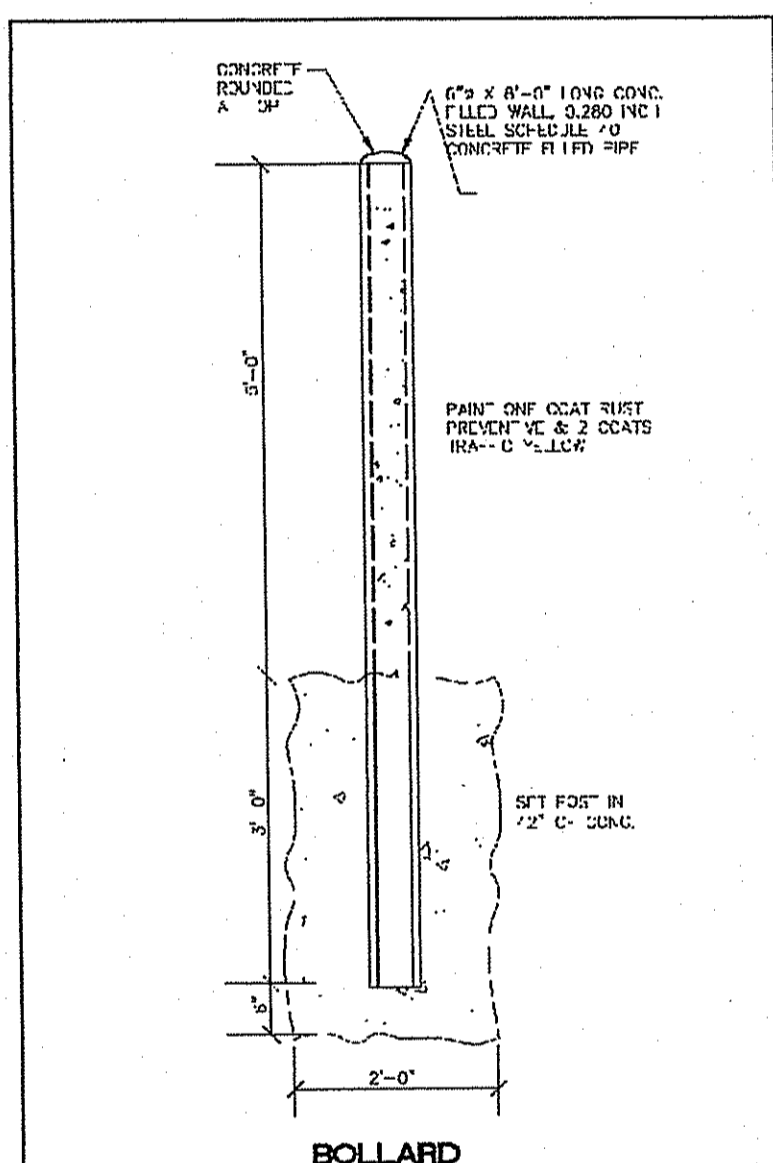
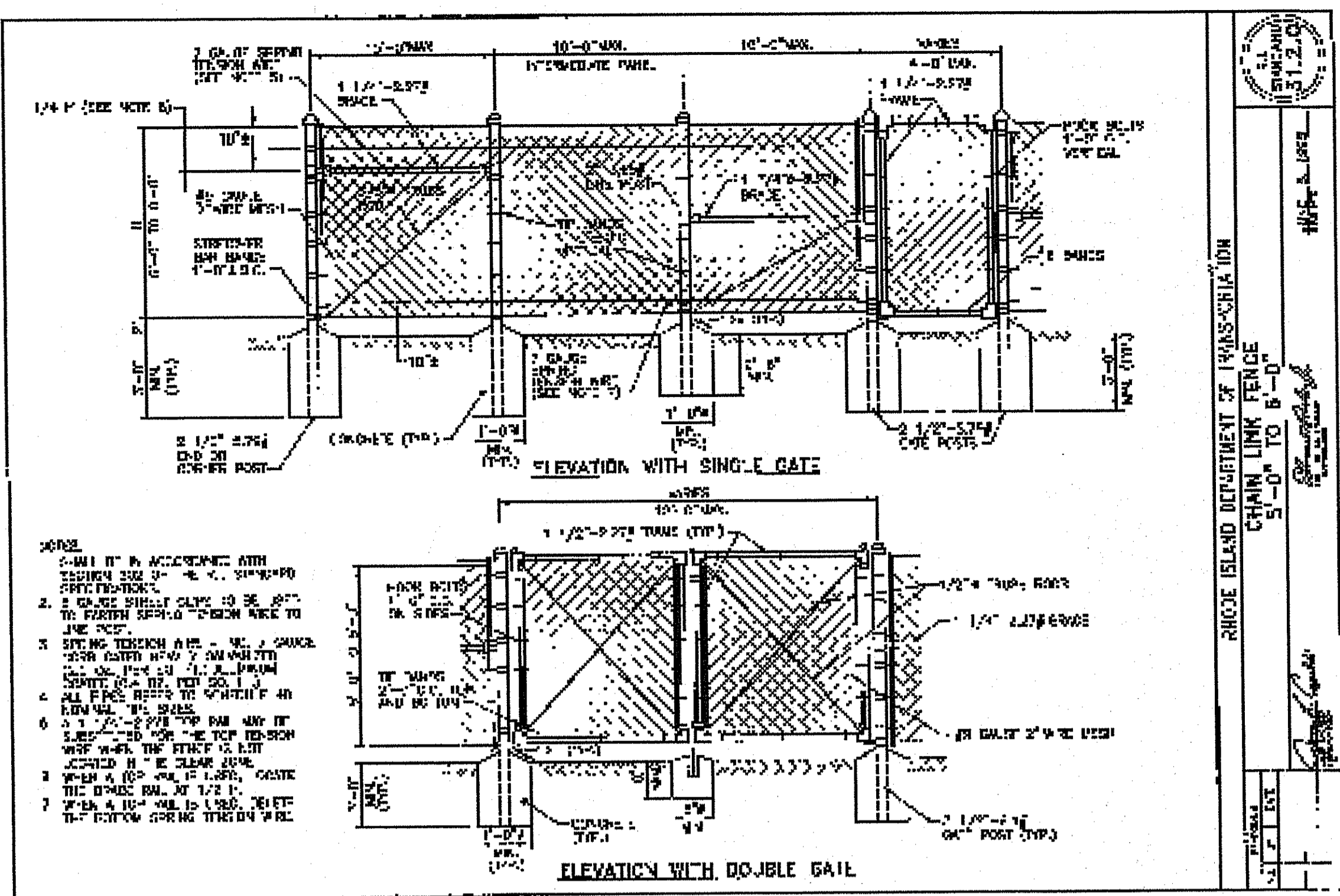
RI Standard Details - I FOR ALBION COURT OF EXETER LOCATED AT South County Trail Exeter, Rhode Island

Checked By: DrC
Date: 7/14/2009
Scale: As Shown
NO. REVISION
1. TOWN, RIDOT & WETLANDS COMMENTS ERM 19/27/09

DANIEL R. COITA
Professional Engineer
12/2/09

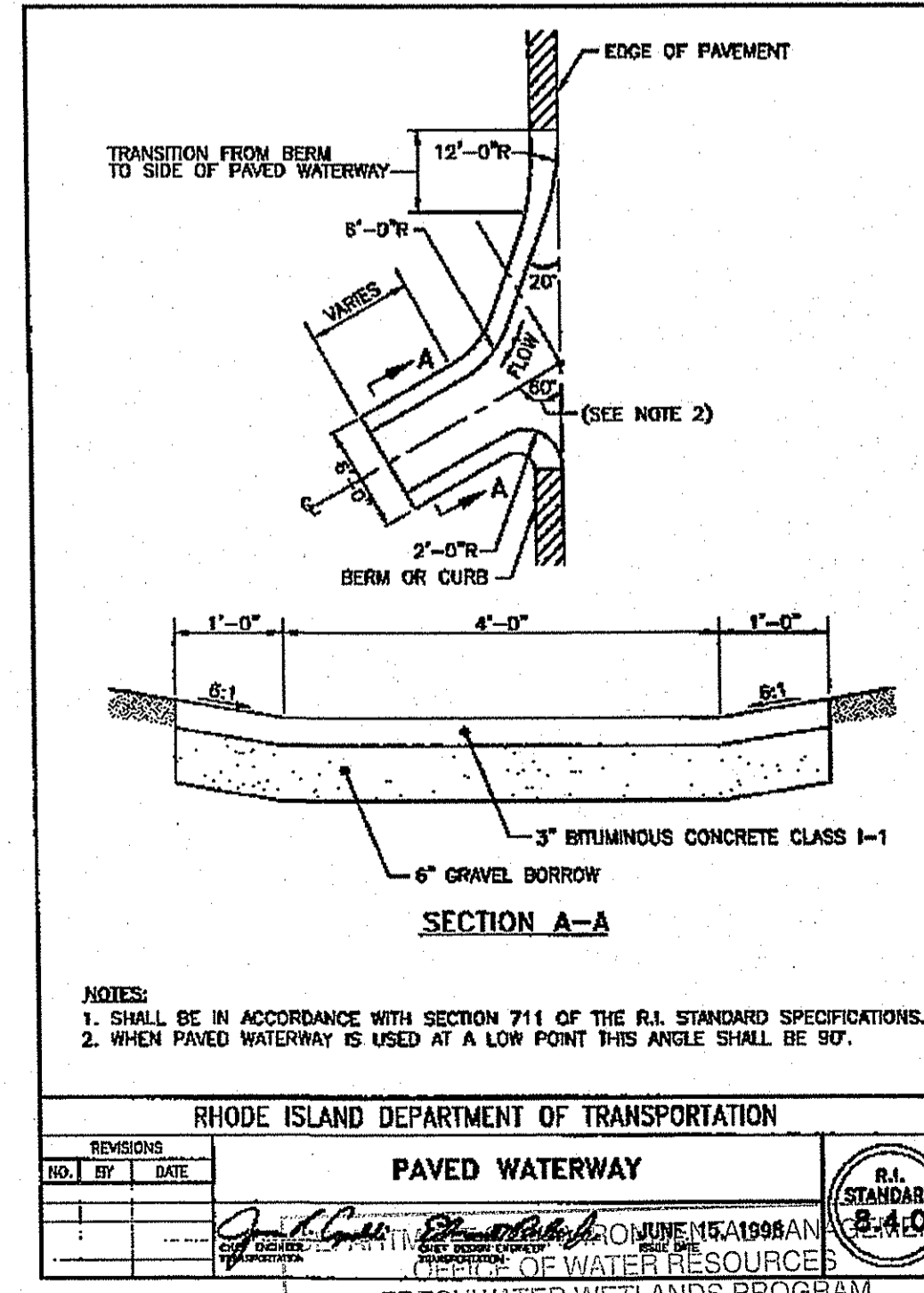
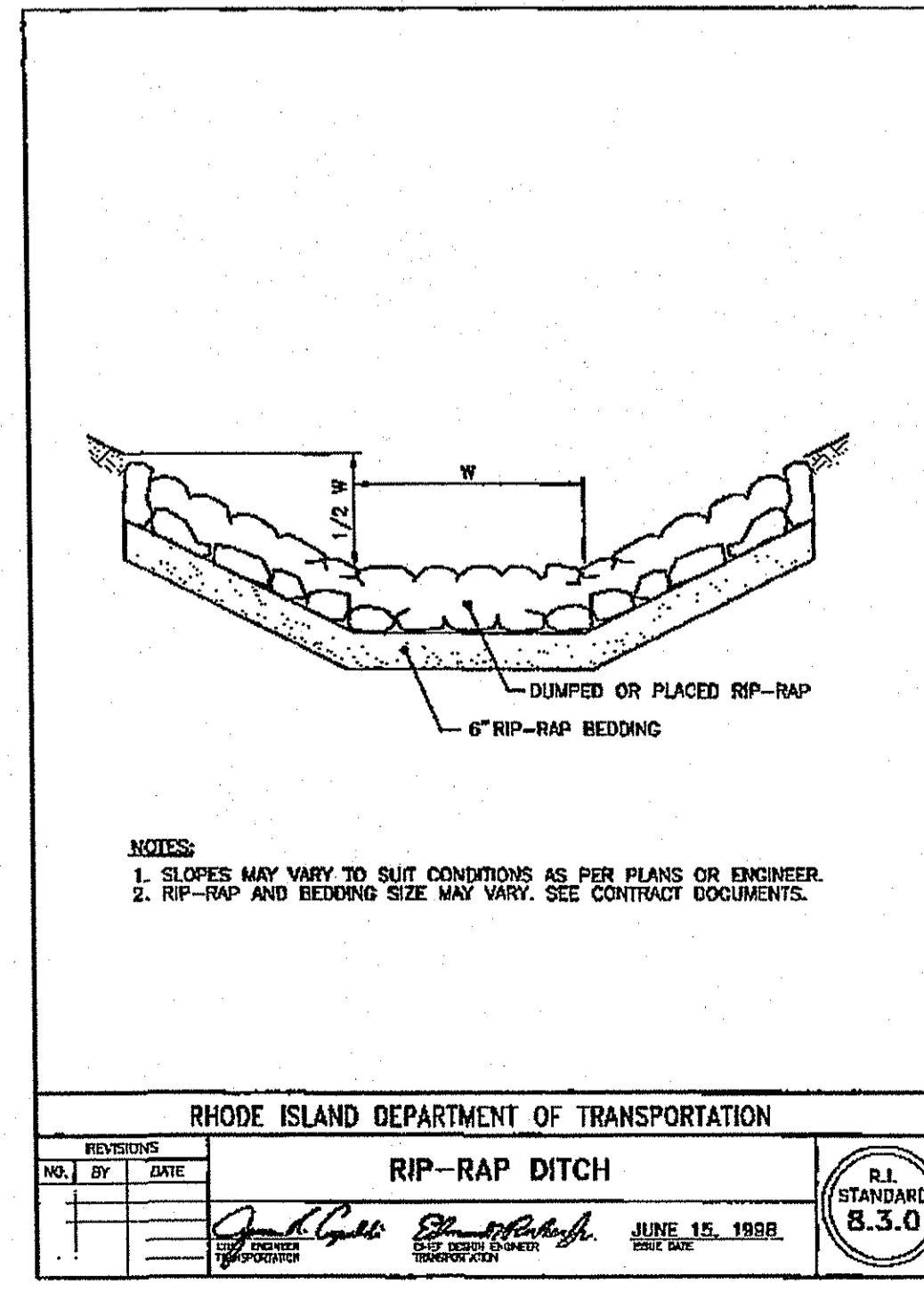
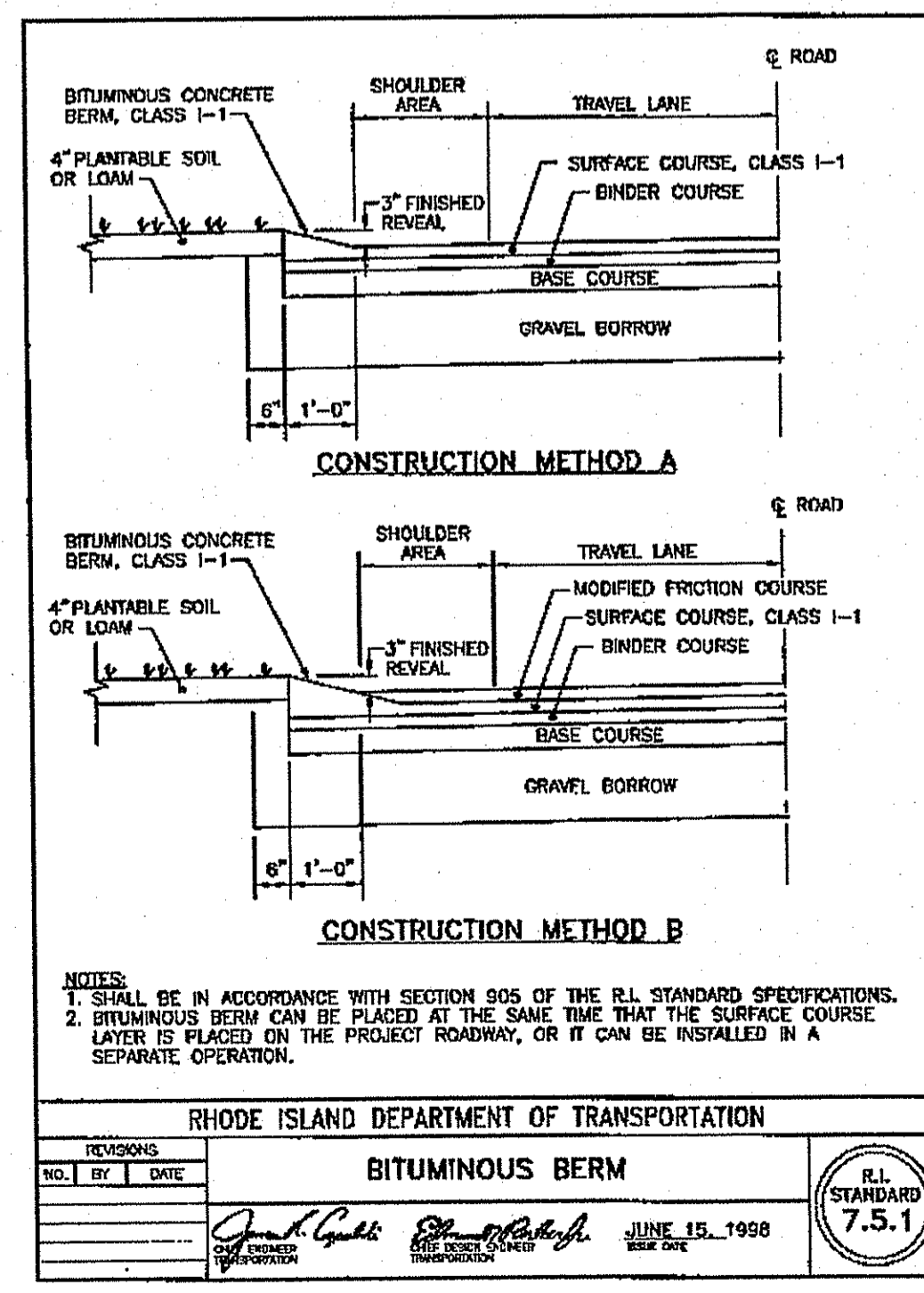
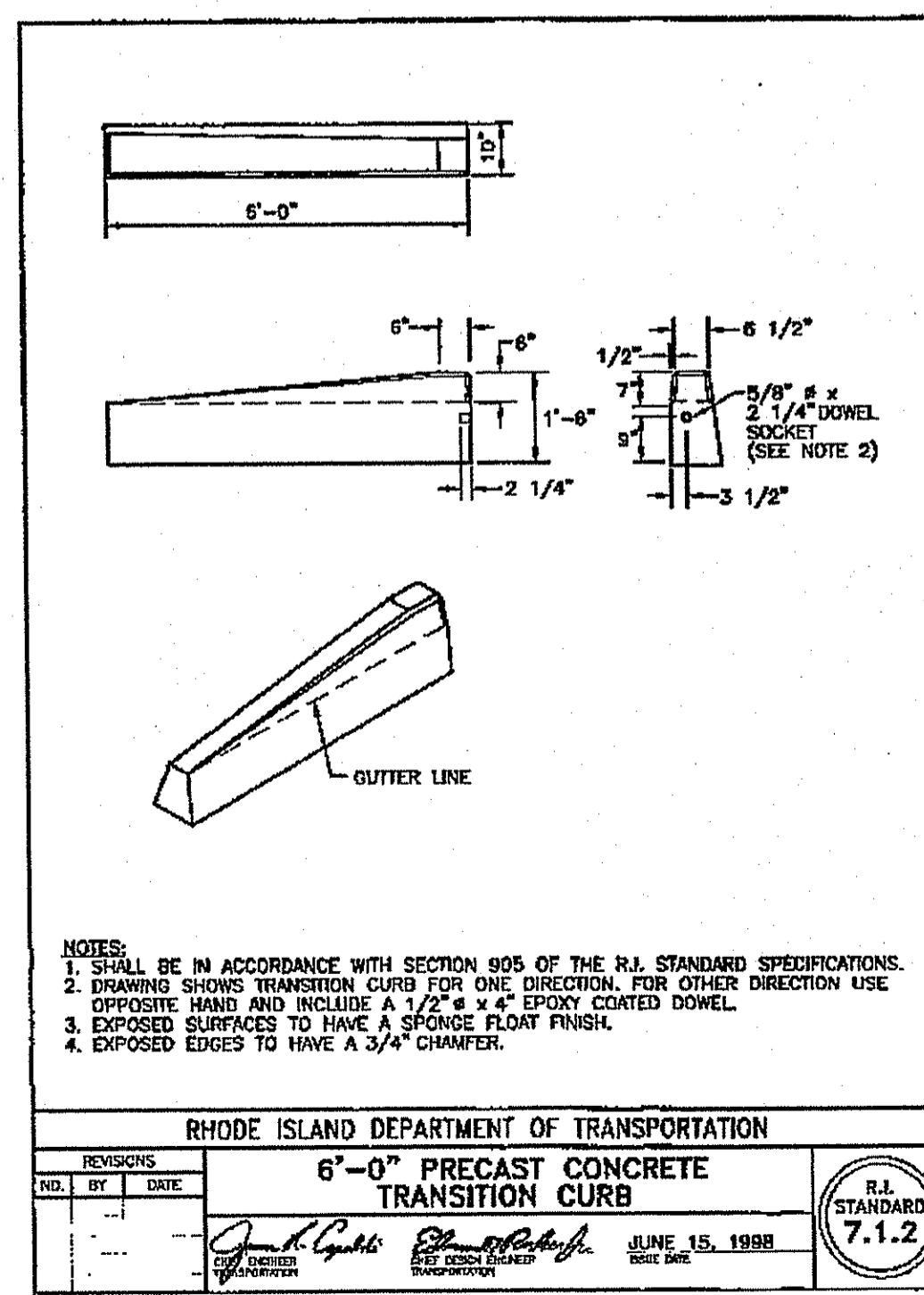
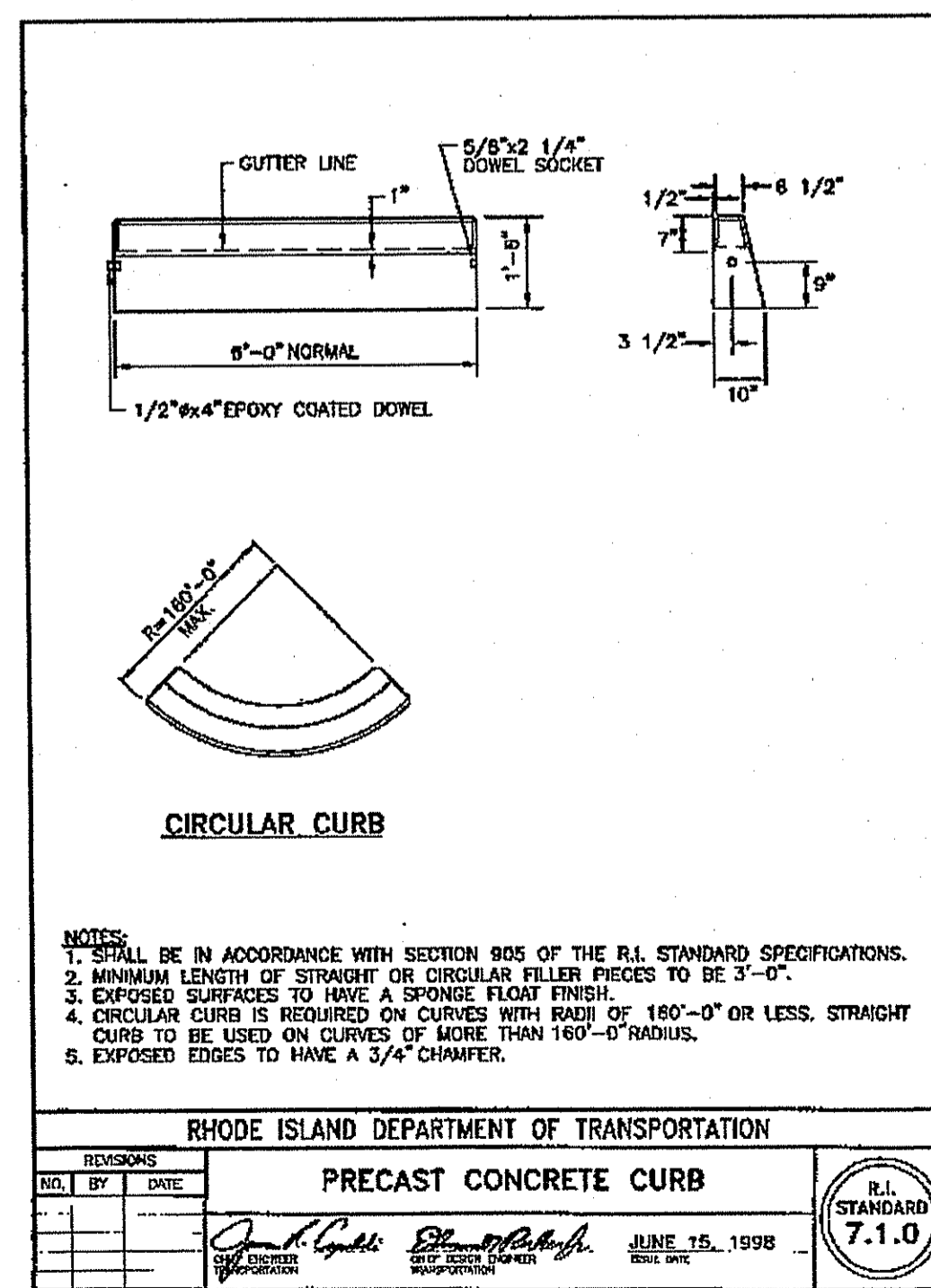
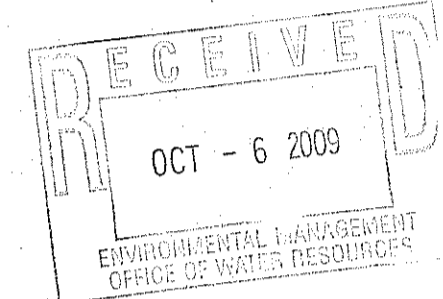
AMERICAN ENGINEERING, INC.
DANIEL R. COITA Professional Engineer/Professional Land Surveyor
400 South County Trail - Suite A 201 Exeter, Rhode Island 02822
Phone (401) 294-4090 / Fax (401) 294-3625

Sheet 14 of 14
C.7.0
of 1 sheets
Drawing No. _____ Sh. _____



NOTES:

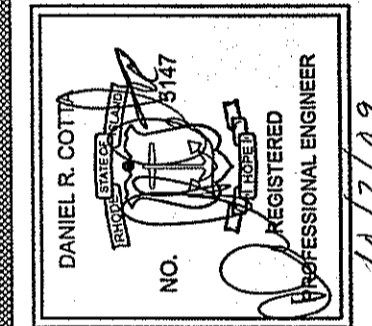
- 1.) FENCE
6 foot high chain link fence (R.I. Std. 31.2.0) w/ black privacy-type slats inserted in galvanized steel mesh fabric.
- 2.) CONCRETE SLAB
Monolithic, min. 6" thickness w/imbedded 6"x6"/ 10"x10 welded wire fabric (W.W.F.), 3000 P.S.I. with fiber mesh reinforcing.
- 3.) GATES
Constructed of min. 1-1/2" diameter galvanized tubular steel w/privacy-type slats (Black) inserted in galvanized steel mesh fabric, hinge-mounted on min. 3/2" diameter galvanized steel post. (Gates and post constructed and installed per applicable building code by licensed fence contractor).
- 4.) DROP PIN 1/2" dia. 18" long metal rod gate latch. Provide 3/4" dia. hole 6" into concrete for rods. In asphalt provide a 3/4" P.V.C. sleeve, 6" long, or equal.
- 5.) SOIL
Soil bearing capacity to be at least 2,500 P.S.F.
- 6.) BOLLARD
3' high, 6" diameter steel pipe bollard filled with concrete, painted traffic yellow, imbedded 3'-0" deep in 24" concrete foundation. (See Detail)



RI Standard Details - II
FOR
ALBION COURT OF EXETER
LOCATED AT
South County Trail
Exeter, Rhode Island

Checked By: DrC
Date: 7/14/2009
Scale: As Shown

NO.	REVISION	BY	DATE



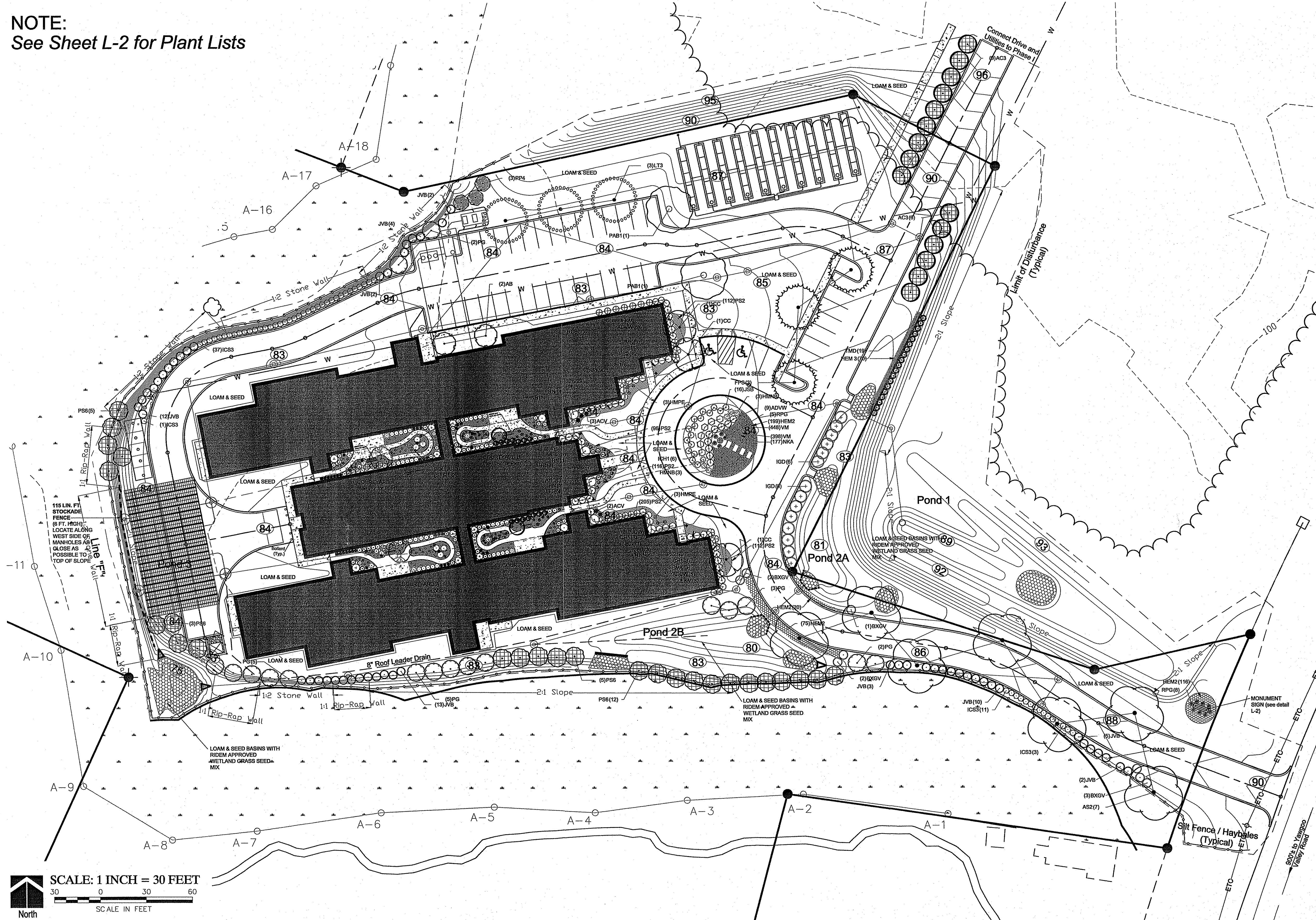
AMERICAN ENGINEERING, INC.
Professional Engineer / Professional Land Surveyor
DANIEL R. COTTA
400 South County Trail - Suite A 201
Exeter, Rhode Island 02822
Phone (401) 294-4090 / Fax (401) 294-3625

Sheet 15 of 19
C.7.1
of 1 sheets

DATED NOV - 6 2009 FILE #
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

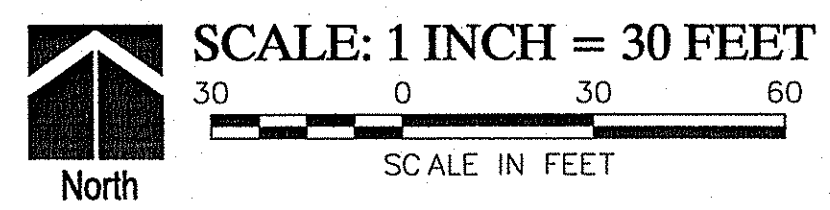
Z:\DWG\1091\01109101.dwg, C:7.1 RI STANDARD DETAILS - II, 10/12/2009 9:40:00 AM

NOTE:
See Sheet L-2 for Plant Lists



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV - 6 2009 FILE #
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RECEIVED
OCT 23 2009
BY:



Edward Rowse
ARCHITECTS
115 Cedar Street Providence, RI 02903-1082
Massachusetts Office (508) 252-5446
e-mail: rowse@rowsearch.com



LANDSCAPE ARCHITECT
DIANE C. SOULE & ASSOCIATES, ASLA
LANDSCAPE ARCHITECTURE • GRAPHICS • DESIGN
Southfield, Rhode Island 401.231.0736 e-mail: diane@dcsa.us
www.dianeandassociates.com

Date: June 30, 2009	Drawn by: JCS	Proj. Mgr.: JCSA
Revisions	No.	Date Description

ALBION COURT OF EXETER
64 BED ALZHEIMER'S CARE CENTER FOR EXCELLENCE
ROUTE 2
EXETER, RHODE ISLAND
H.L. GEORGE DEVELOPMENT CORP.
WARREN, RHODE ISLAND

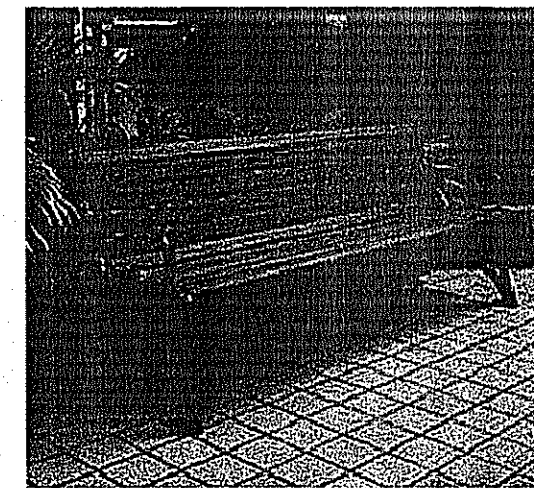
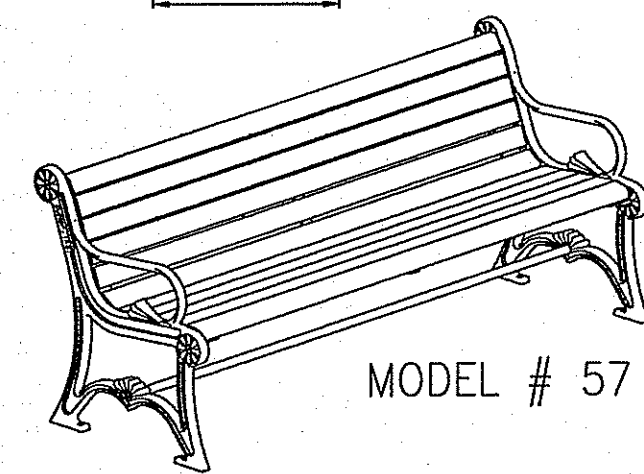
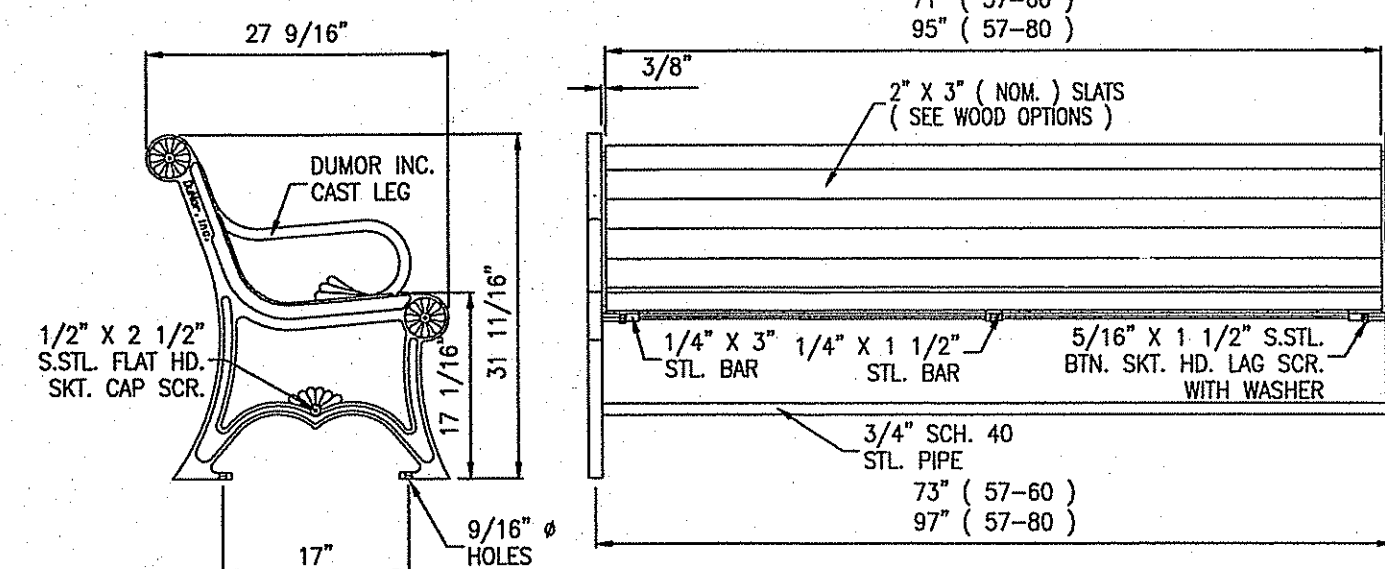
LANDSCAPE PLAN

L-1

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DuMor, inc.

DU MOR, INC.
15 INDUSTRIAL CIRCLE, P.O. BOX 142
MIFFLINTOWN, PA 17059-0142
1-800-598-4018
PHONE: (717) 436-2106
FAX: (717) 436-9839
www.dumor.com

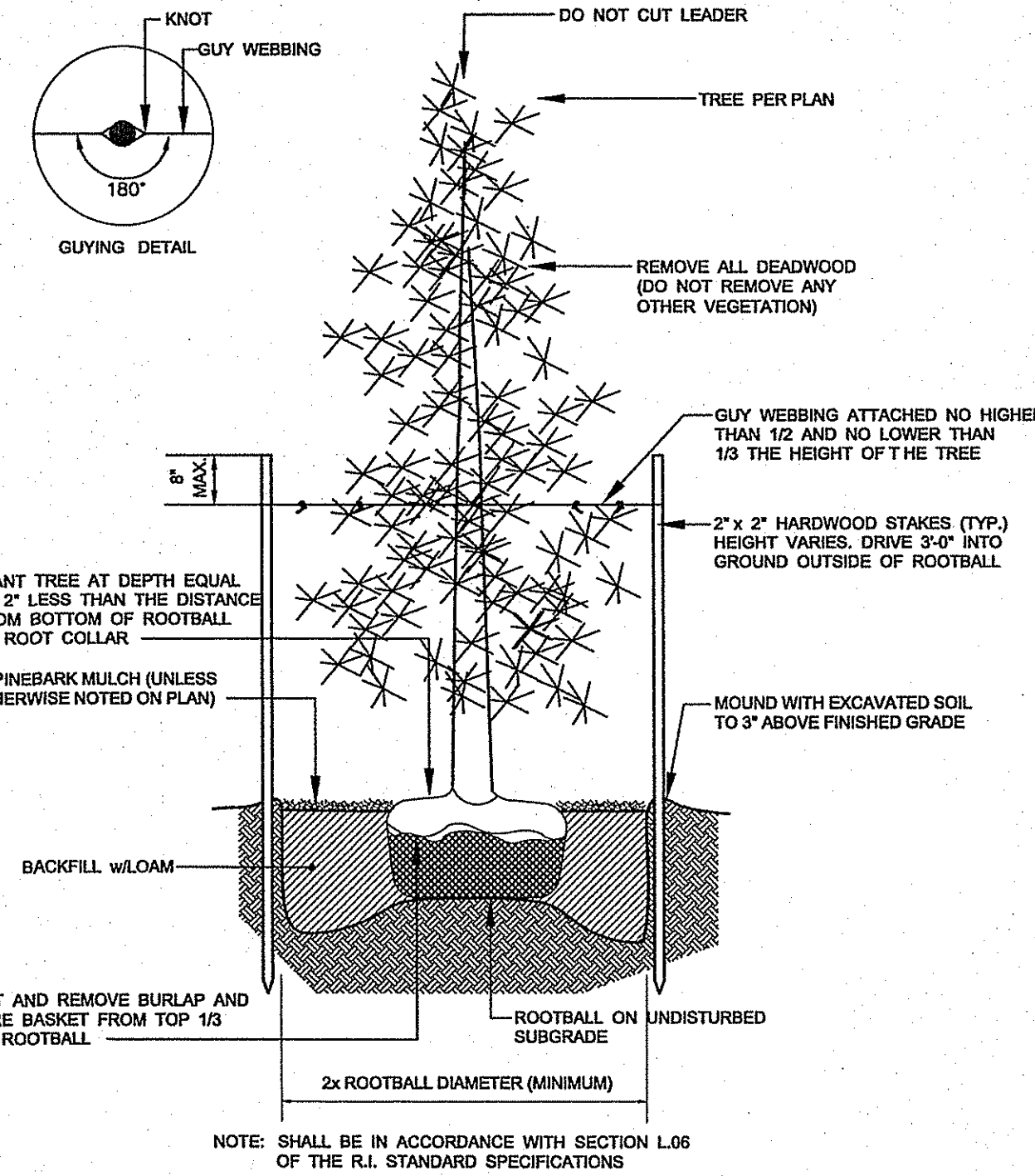


- | | | |
|--|---|---|
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| <input type="checkbox"/> 8' BENCH | <input type="checkbox"/> BRONZE | <input type="checkbox"/> C & BTR. DOUGLAS FIR KO S4S EE |
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| | <input type="checkbox"/> OTHER | <input type="checkbox"/> PIPE |

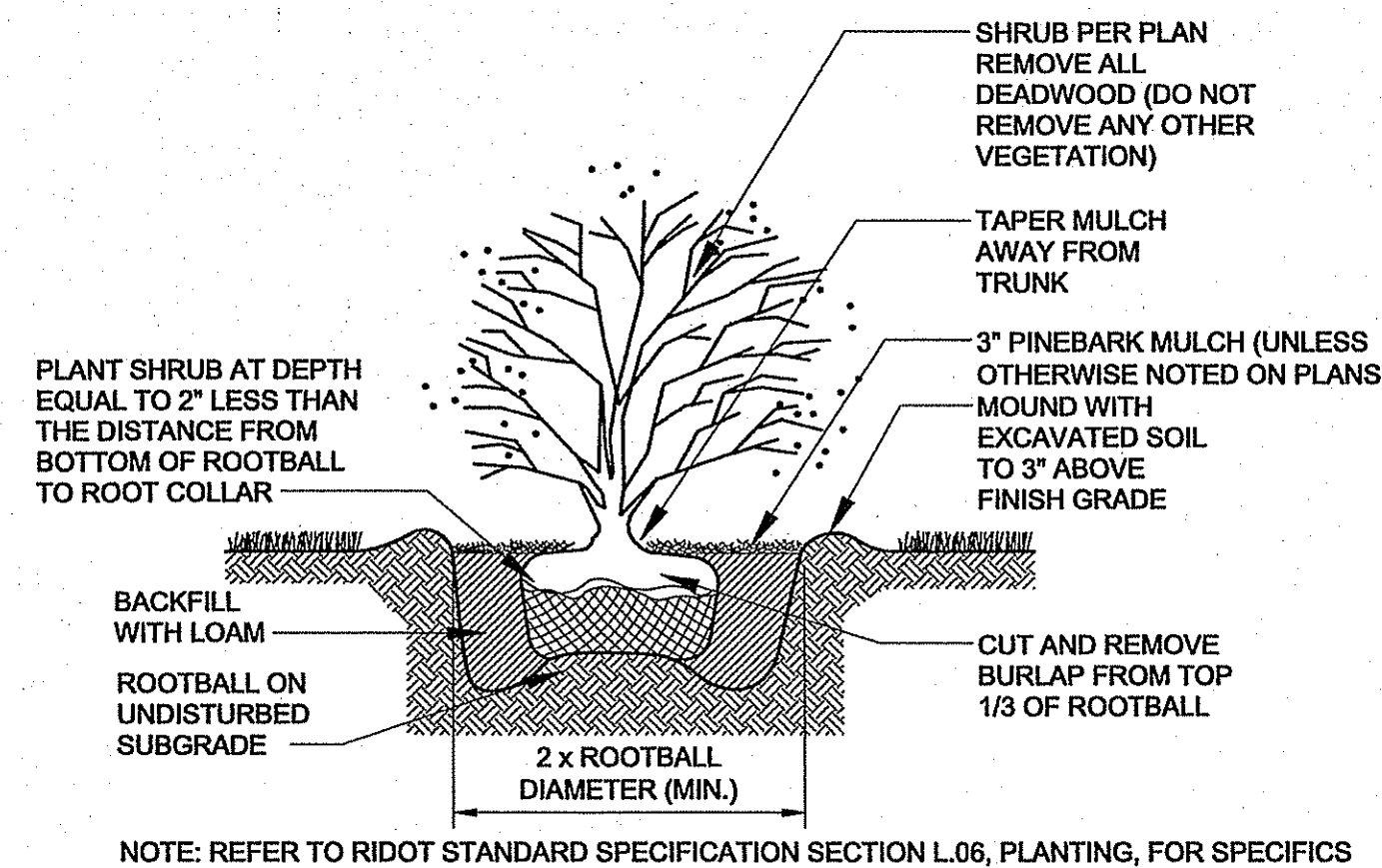
NOTES:

- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- DO NOT SCALE DRAWINGS.
- ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER COATING (SEE COLOR OPTIONS).
- 1/2" X 3 3/4" PLTD. EXPANSION ANCHOR BOLTS PROVIDED.
- ALL WOOD MEMBERS TREATED WITH CLEAR PRESERVATIVE.
- CUSTOM LETTERING AVAILABLE FOR RECESSED SIDE PANELS (37 SPACES TOTAL).
- CONTRACTOR'S NOTE: FOR PRODUCT AND PURCHASING INFORMATION VISIT www.PROJECTmarketsite.com REFERENCE NUMBER 017-028

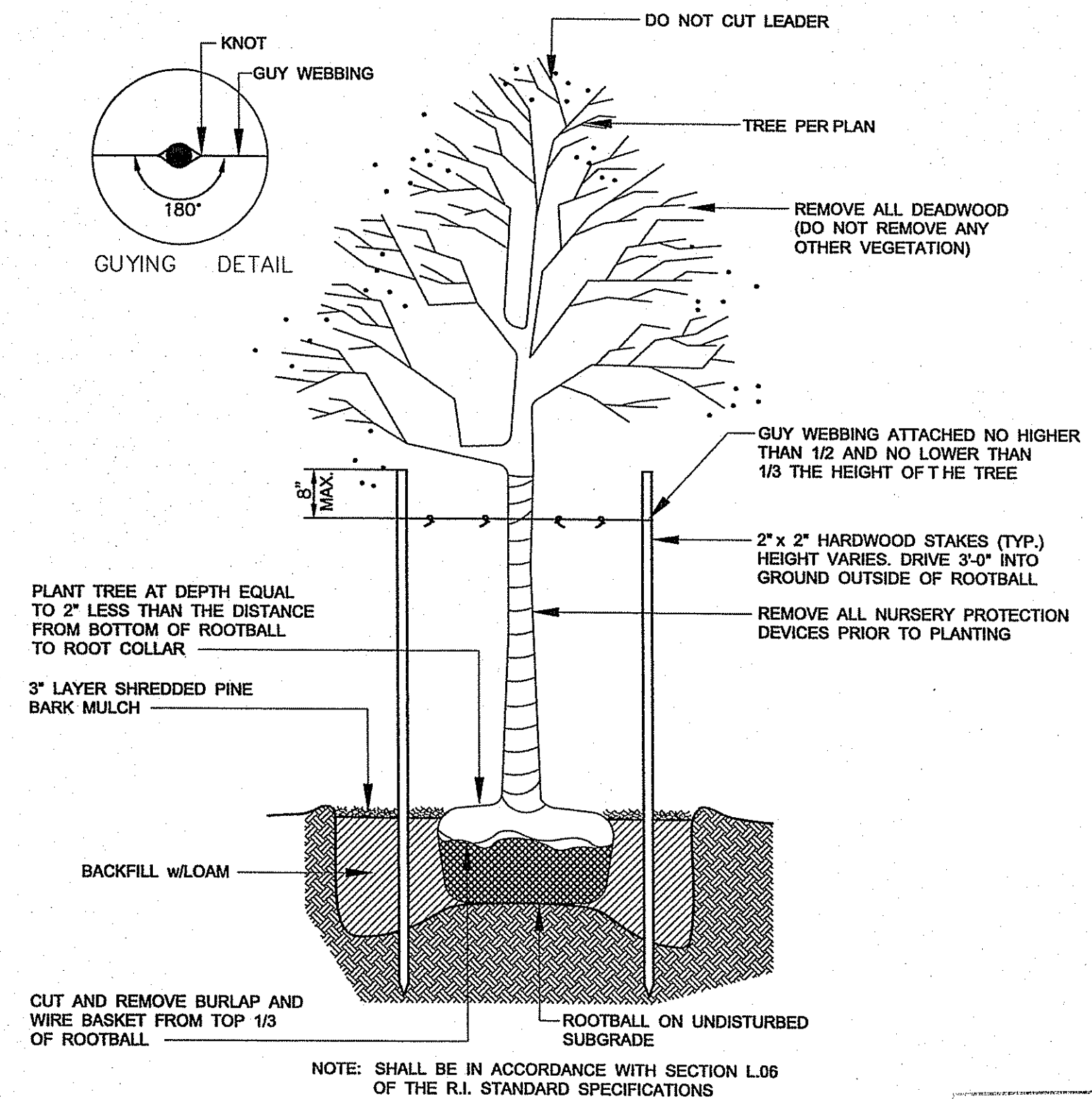
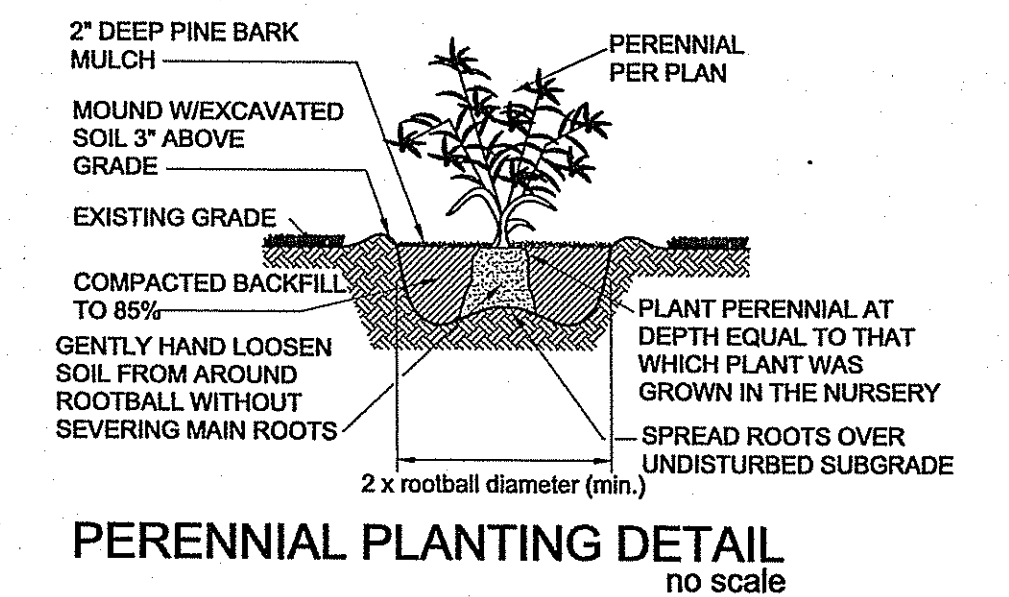
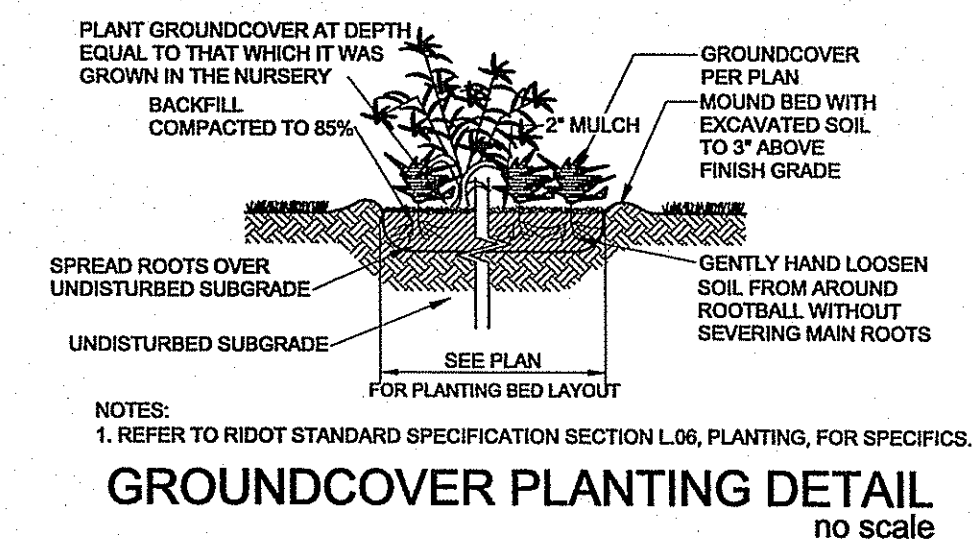
**BENCH 4 TOTAL PROJECT-WIDE
NO SCALE**



**EVERGREEN TREE PLANTING DETAIL
no scale**



**SHRUB PLANTING DETAIL
no scale**



**TREE PLANTING DETAIL
no scale**

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV - 6 2009 FILE #
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

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ALBION COURT OF EXETER
64 BED ALZHEIMER'S CARE CENTER FOR EXCELLENCE
ROUTE 2
EXETER, RHODE ISLAND
H.L. GEORGE DEVELOPMENT CORP.
WARREN, RHODE ISLAND

LANDSCAPE NOTES & DETAILS
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