

PLAN SUBMISSION

for

COTTON SHED

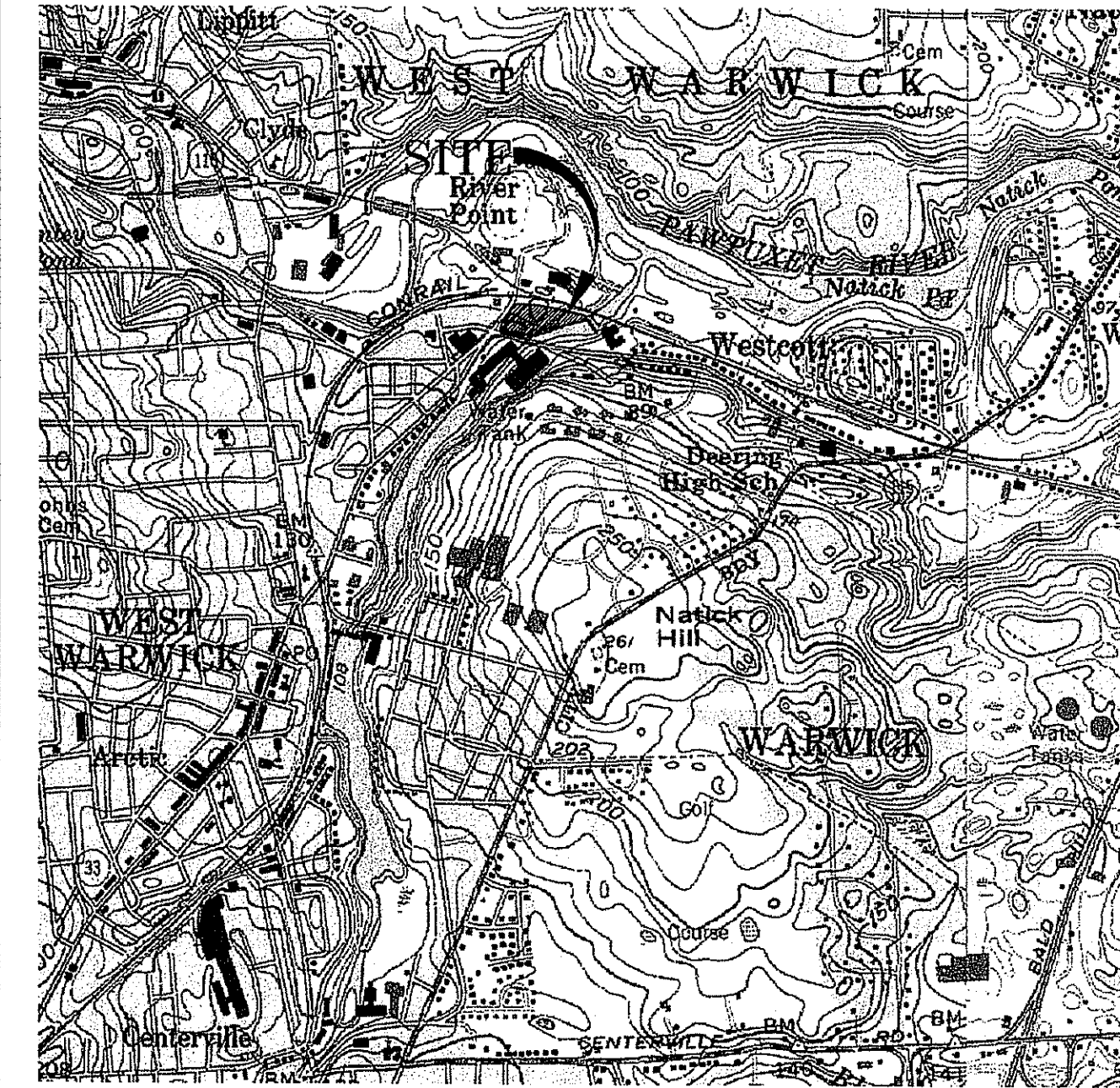
ROYAL MILLS at River Point

on

PROVIDENCE STREET

in

West Warwick, Rhode Island



LOCUS MAP
SCALE: 1"=1,500'

LIST OF DRAWINGS

	TITLE SHEET
C-1.1	GENERAL NOTES AND LEGEND
C-1.2	200' RADIUS & ABUTTERS PLAN
C-2.1	EXISTING CONDITIONS & DEMOLITION
C-3.1	SITE LAYOUT AND MATERIALS
C-4.1	GRADING
C-5.1	UTILITY & DRAINAGE
C-6.1	EROSION CONTROL
C-7.1	CONSTRUCTION DETAILS SHEET 1
C-7.2	CONSTRUCTION DETAILS SHEET 2
C-7.3	CONSTRUCTION DETAILS SHEET 3
C-7.4	CONSTRUCTION DETAILS SHEET 4
C-7.5	CONSTRUCTION DETAILS SHEET 5
C-7.6	CONSTRUCTION DETAILS SHEET 6
C-7.7	CONSTRUCTION DETAILS SHEET 7
C-7.8	CONSTRUCTION DETAILS SHEET 8

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 05 2007 FILE # 07-0405
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

OCT 1 2007

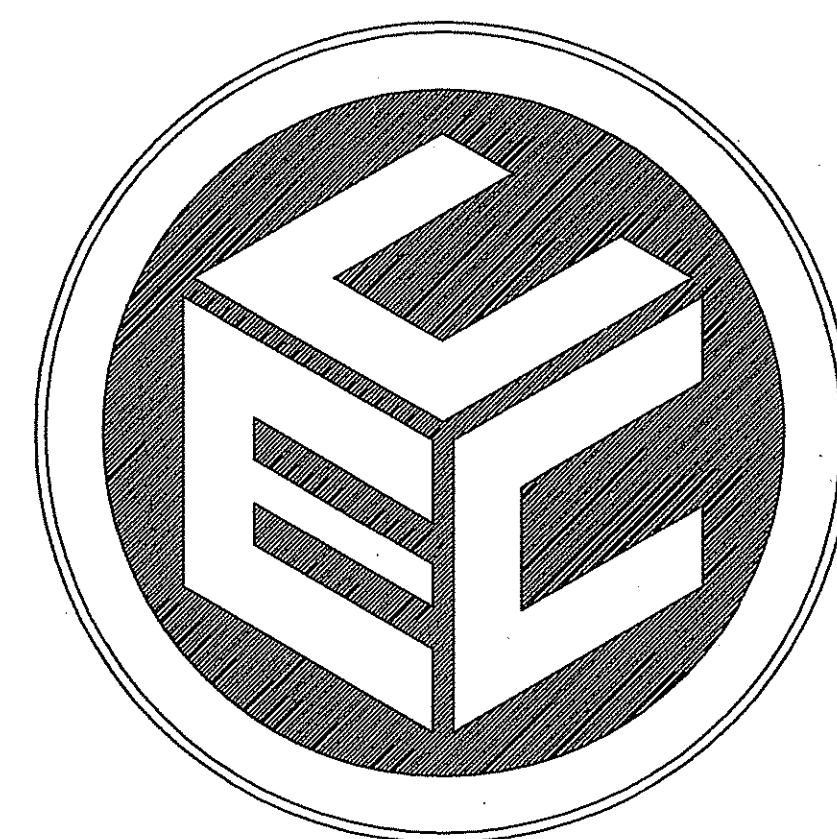
W. Joseph Casey

PLAN REFERENCE:

- EXISTING CONDITIONS FOR COTTON SHED SITE BASED UPON PLAN ENTITLED "ROYAL MILLS ESTATES", BY BOYER ASSOCIATES 1200 MAIN STREET, WEST WARWICK, RI 20893.
- EXISTING CONDITIONS FOR PROVIDENCE AND HAY STREET BASED UPON PLAN ENTITLED "PROVIDENCE STREET IMPROVEMENTS" FOR R.I.D.O.T. BY COMMONWEALTH ENGINEERS & CONSULTANTS, INC., 400 SMITH STREET, PROVIDENCE, RI 02908.
- ALL ELEVATIONS BASED ON MEAN SEA LEVEL.

DEVELOPER:
STRUEVER BROTHERS
ECCLES & ROUSE, INC.
1040 HULL STREET, SUITE 200
BALTIMORE, MARYLAND 21230

PREPARED BY:

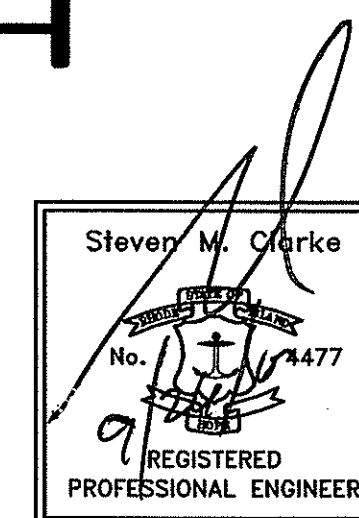


COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.

400 SMITH STREET
PROVIDENCE, RI 02908

SEPTEMBER 26, 2007

DEM PERMIT SET



KCWA - NOTE :
THE ATTACHED DRAWING NUMBERS C5.1, C5.2, C7.1 & C7.5
HAVE BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION
AND HAVE BEEN THOROUGHLY CHECKED BY ME.

P.E. # 4477

ASSESSORS REFERENCE:

A.P. 26 LOT 10

ZONING REFERENCE:

MILL USE ORDINANCE - MILL CONVERSION

A.P. 26 LOT 10 IS SUBJECT TO WEST WARWICK ZONING ORDINANCE SECTION 5.14. RE-USE DEVELOPMENTS OF HISTORIC MILL STRUCTURES.

Project No.:

CE&C# 07005.00

GENERAL NOTES:

- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY THE STATE OF RHODE ISLAND AND THE MUNICIPALITY PRIOR TO COMMENCING ANY WORK.
- IT SHALL ALSO BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND ADJUTING PROPERTIES. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.
- BEFORE STARTING ANY CONSTRUCTION THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ANY HYDRANTS, WATER MAINS, BLOWOFF ASSEMBLIES, FITTINGS, AND VALVES WITH THE LOCAL WATER DEPARTMENT AS TO TYPE AND MANUFACTURER.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE MUNICIPAL ENGINEERING DEPARTMENT AND ALL UTILITY INSTALLATIONS AND INSPECTIONS WITH THE APPROPRIATE UTILITY COMPANY. A 48 HOUR ADVANCE NOTICE IS REQUIRED BEFORE WORK COMMENCEMENT.
- ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE "R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2004 EDITION)" WITH ALL CORRECTIONS AND ADDENDA AND THE 2004 R.I. STANDARD DETAILS WITH ALL CORRECTIONS AND ADDENDA AND THE TOWN OF WEST WARWICK STANDARD SPECIFICATIONS AND DETAILS.
- 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 SEEDED, SEE EROSION CONTROL PROGRAM.
- UNLESS OTHERWISE SPECIFIED, ALL STORM DRAINS SHALL BE HANCOX PIPE OR EQUAL.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION INDICATED ON THESE PLANS. THAT INCLUDES ANY CONSTRUCTION TO BRING UTILITIES TO SITE, ANY REPAIRS, ANY TRENCHING REQUIRED, HYDRANTS, ANY AND ALL CONSTRUCTION FOR ACCEPTANCE OF ROADS AND EASEMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
- THE LOCATION OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR. "DIG SAFE" SHALL BE CONTACTED BY THE CONTRACTOR AS PART OF THIS VERIFICATION.
- IN ALL EXCAVATION AND PLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.
- ALL WATER MAINS SHALL BE DEFLECTED ALONG A CURVE WITH A MINIMUM RADIUS OF 250' AT ANY LOCATION WHERE THIS IS NOT POSSIBLE, PROPER BENDS AND FITTINGS SHALL BE USED.
- ALL EXCESS SOIL, STUMPS, TREES, ROCKS, BOULDERS, AND OTHER REFUSE SHALL BE DISCARDED OFF SITE, IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
- THE ENTIRE PROJECT SITE IS DOCUMENTED TO CONTAIN CONTAMINATED MATERIALS. A REMEDIAL WORK ACTION PLAN HAS BEEN APPROVED AND MAJOR ADVANCED REMEDIATION WORK HAS BEEN UNDERTAKEN BY OTHERS. SOME WORK ITEMS MAY REMAIN TO BE COMPLETED AND WILL HAVE TO BE COORDINATED WITH WORK OF THIS PROJECT.
- IF CEMENT CONCRETE MIX TRUCKS ARE TO BE WASHED OUT ON SITE, THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING A WASH OUT AREA WITH APPROPRIATE PROTECTION CONTROLS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING COLLECTION AND STORAGE LOCATIONS ON-SITE FOR ALL CONSTRUCTION DEBRIS AND TRASH SO THAT THE MATERIAL DOES NOT BECOME A NEIGHBORHOOD NUISANCE.

EROSION CONTROL & SOIL STABILIZATION PROGRAM

- DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
- ALL DISTURBED SLOPES, EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE, FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
- THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH R.I. STD 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 WEIGHT:	SEEDING DATES:	
RED FESCUE	75	APRIL 1 - JUNE 15	
KENTUCKY BLUEGRASS	15	AUGUST 15 - OCTOBER 15	
COLONIAL BENTGRASS	5		
PERENNIAL RYEGRASS	5		
TOTAL:	100 lbs/Ac.		
- UNMOWED AREA OR INFREQUENTLY MOWED (FLAT SLOPES GREATER THAN 3:1)

MIXTURE:	% BY WEIGHT:	SEEDING DATES:	
RED FESCUE	75	APRIL 1 - JUNE 15	
COLONIAL BENTGRASS	5	AUGUST 15 - OCTOBER 15	
PERENNIAL RYEGRASS	5		
BIRDSFOOT TREFOL	15		
TOTAL:	100 lbs/Ac.		
- WET DETENTION BASIN BOTTOM PLANTING

MIXTURE:	RATE:	SEEDING DATES:	
ZIZANIA AQUATICA	2 Bushels/Ac.	APRIL 1 - JUNE 15	
PHALARIS ARUNDINACEA	10 lbs/Ac.	AUGUST 15 - OCTOBER 15	
- TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS) THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
- HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000 - 4,000 lbs/Ac.
- ALL HAYBALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING CAN HELP MINIMIZE THE EROSION. A TEMPORARY SEEDING GUIDE MUST BE INCLUDED AS A REFERENCE. THE FOLLOWING SPECIES ARE RECOMMENDED:

MIXTURE:	lbs./1,000 S.F.	lbs/Ac.	SEEDING DATES:
ANNUAL RYEGRASS	1.0 - 1.5	40 - 60	3/1 - 6/1
PERENNIAL RYEGRASS	1.0 - 1.5	40 - 60	3/1 - 6/1
SUDAN GRASS	0.7 - 1.0	30 - 40	5/15 - 8/15
MILLET	0.7 - 1.0	30 - 40	5/15 - 8/15
WINTER RYE	3.0	120	4/15 - 6/15
OATS	0.5 - 5.0	85 - 120	3/1 - 6/15
WEEDING COVERGRASS	0.5 - 5.0	5 - 20	5/1 - 7/1
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
- ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE R.I.D.P.W. STD SPECIFICATIONS SECTION 202.
- STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 15 DAYS OF FINAL GRADING.
- STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS, THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES SHALL ALSO BE SEEDED AND/OR STABILIZED.
- ON BOTH STEEP AND LONG SLOPES CONSIDERATION SHALL BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
- REFERENCE THE SEDIMENTATION CONTROL PROGRAM AND ORDER OF PROCEDURE FOR PROPER COODINATION.
- THE DRAINAGE SYSTEM SHALL RECEIVE ONE FINAL CLEANING PRIOR TO ACCEPTANCE TO THE OVERALL PROJECT BY THE OWNER. SEDIMENTS SHALL BE DISPOSED OF IN A PROPER MANNER.

ORDER OF PROCEDURE:

- IMMEDIATELY UPON COMPLETION OF THE CLEARING OPERATION AND PRIOR TO ANY ROUGH GRADING, TEMPORARY HAYBALES AND SANDBAGS SHALL BE PLACED OUTSIDE THE LIMITS OF CONSTRUCTION AS PER THE PLANS (I.E. ALONG ROADWAYS, STREAM BANKS, CRITICAL AREAS, ETC.).
- 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 OUTLETS MUST REMAIN UNTIL SUCH TIME THAT A DESIRABLE STAND OF GRASS OR COVER HAS BEEN ESTABLISHED AND THE PROJECT RECEIVES A FAVORABLE APPROVAL FOR FINAL ACCEPTANCE FROM THE ENGINEER.

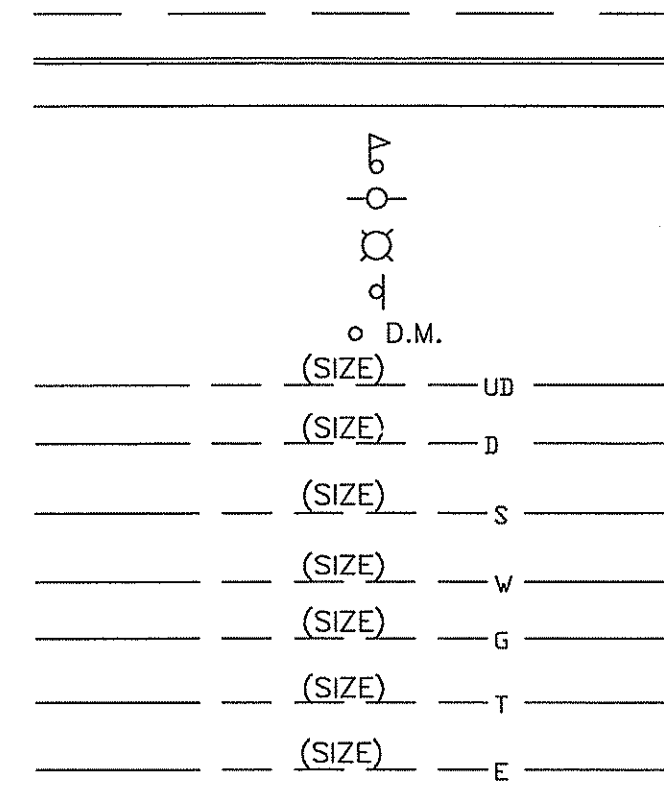
SEDIMENTATION CONTROL PROGRAM:

- RIP RAP SPLASH PADS SHALL BE INSTALLED AT THE OUTLETS FOR ALL CULVERTS DISCHARGING INTO A WATERWAY.
- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL ENTERING THE WETLANDS.
- ALL DISTURBED AREAS SUBJECT TO EROSION TENDENCIES WHETHER THEY BE NEWLY FILLED OR EXCAVATED SHALL BE SEEDED AND PROTECTED WITH A 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 SHOULD 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.
- ADDITIONAL HAYBALES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT.
- ALL SEDIMENTS SHALL BE REMOVED FROM THE DRAINAGE AND DETENTION FACILITIES AS SCHEDULED FOR EACH FACILITY (SEE DETENTION BASIN MAINTENANCE AND CATCH BASIN MAINTENANCE, THIS SHEET).
- REFERENCE THE "R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE, 1989, AS A GUIDE.

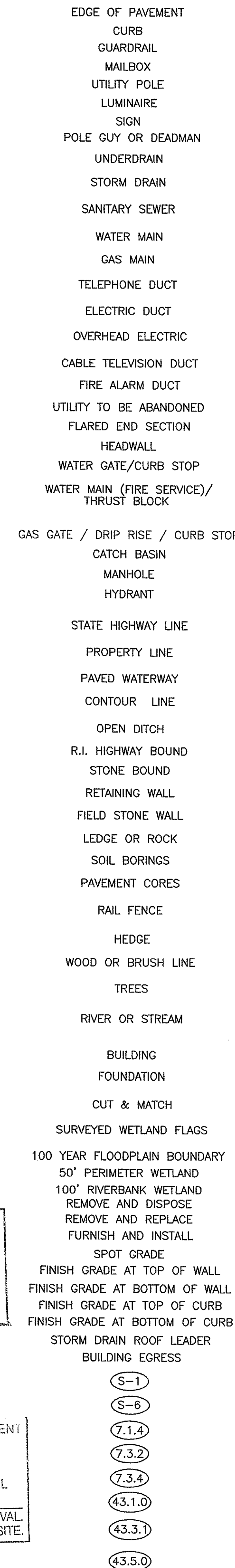
CATCH BASIN SEDIMENTATION CONTROL AND MAINTENANCE:

- AT NO TIME DURING CONSTRUCTION SHALL THE SUBGRADE OF THE NEW ROADWAY BE SUCH THAT SURFACE RUNOFF WILL BE PERMITTED TO DIRECTLY ENTER ANY DRAINAGE STRUCTURE. A TEMPORARY DEPRESSED AREA AROUND THE STRUCTURE SHALL BE INCORPORATED AS A SEDIMENTATION TRAP. THE MOUTH OF THE TRAP SHALL BE LINED WITH HAYBALES AROUND THE COMPLETE PERIMETER, SIMILAR TO R.I. STD. DETAIL 9.5. DURING ALL PRELIMINARY STAGES, THE TOP OF THE STRUCTURE SHALL ALWAYS BE HIGHER THAN THE SUBGRADE.
- HAYBALE EROSION CHECKS SHALL BE MAINTAINED AROUND ALL CATCH BASINS UNTIL ALL UPGRADIENT DISTURBED AREAS ARE STABILIZED BY PAVEMENT OR VEGETATION.
- CATCH BASINS MUST BE CLEANED OF SEDIMENT BY THE DEVELOPER OR HIS REPRESENTATIVE IMMEDIATELY AFTER CONSTRUCTION IS COMPLETED. THEREAFTER, SLIMPS & OIL/WATER SEPARATORS SHALL BE CLEANED AT LEAST ONCE A YEAR. METHODOLOGY AND DISPOSAL OF MATERIALS SHALL BE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
- INSPECTIONS AND MAINTENANCE AS SPECIFIED ABOVE ARE TO BE PERFORMED BY THE DESIGNATED AGENTS OF STRUEVER BROTHERS ECCLES & ROUSE, INC.

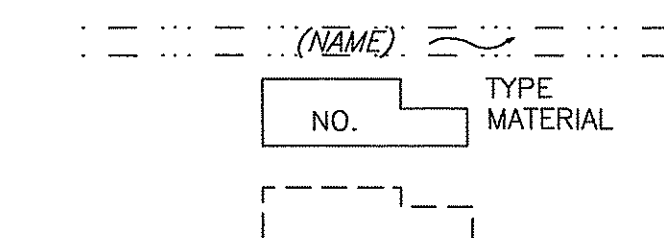
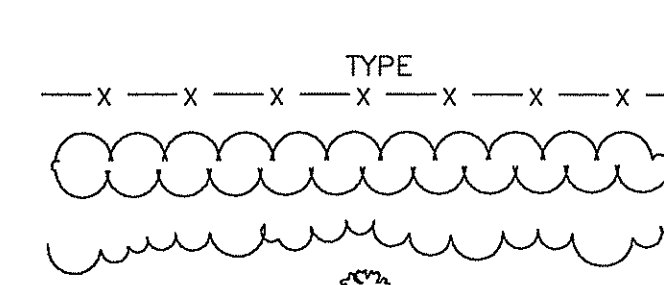
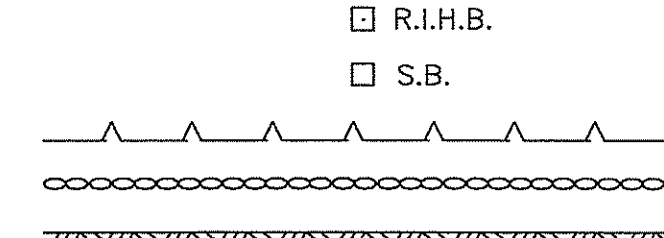
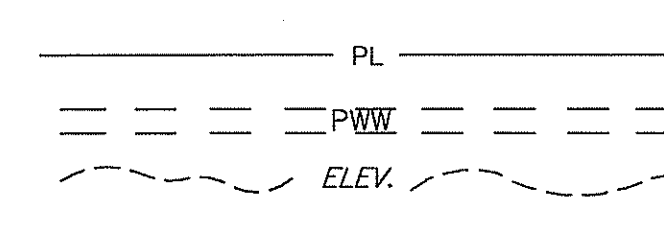
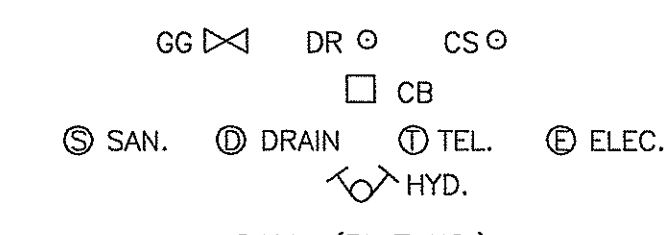
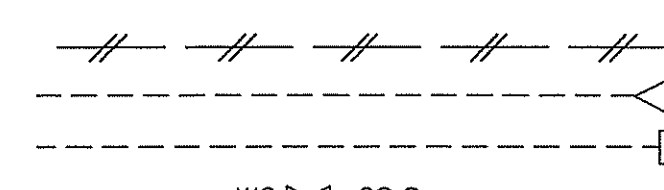
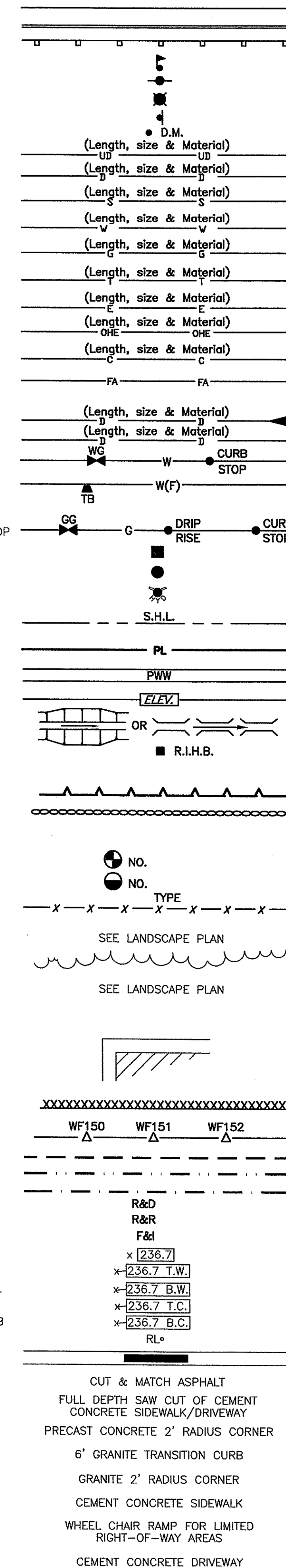
EXISTING



LEGEND



PROPOSED



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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED DEC 05 2007 FILE # 07-0402
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W. Joseph Casey

AREAS OF CONCERN - REMEDIAL ACTION PLAN (AREAS PROPOSED FOR SOIL EXCAVATION)



COMMONWEALTH ENGINEERS & CONSULTANTS, INC.
400 SMITH STREET
PROVIDENCE, RI 02908
PHONE: (401) 273-6600

Steven M. Clarke
No. 4477
REGISTERED PROFESSIONAL ENGINEER

Revision:

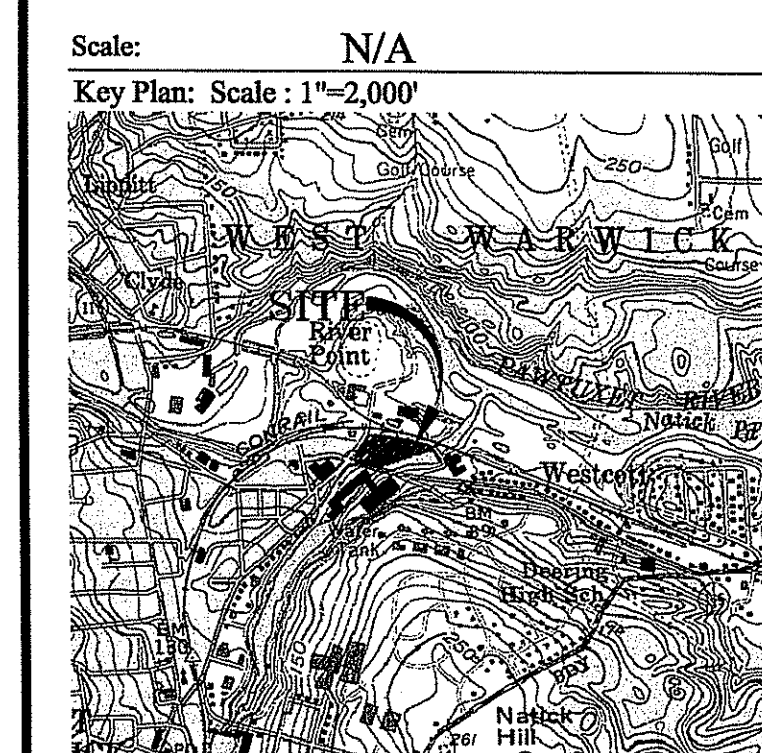
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ASSESSORS REFERENCE:
A.P. 26 LOT 10

ZONING REFERENCE:
MILL USE ORDINANCE - MILL CONVERSION
A.P. 26 LOT 10 IS SUBJECT TO WEST WARWICK ZONING ORDINANCE SECTION 5.14 RE-USE DEVELOPMENTS OF HISTORIC MILL STRUCTURES.

Drawn: JP

Checked:



Project Name: **THE COTTON SHED**
West Warwick, Rhode Island

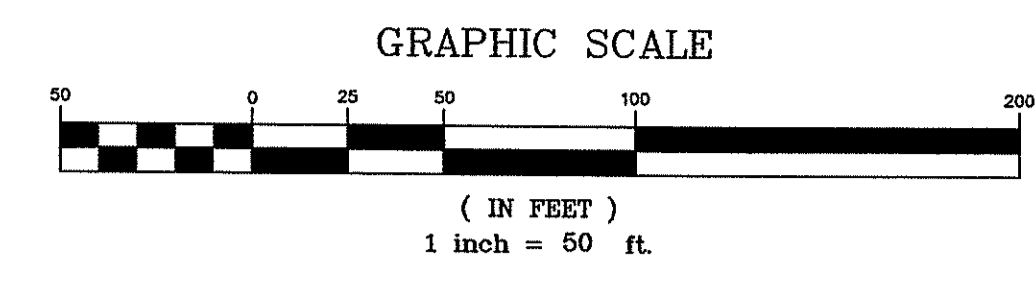
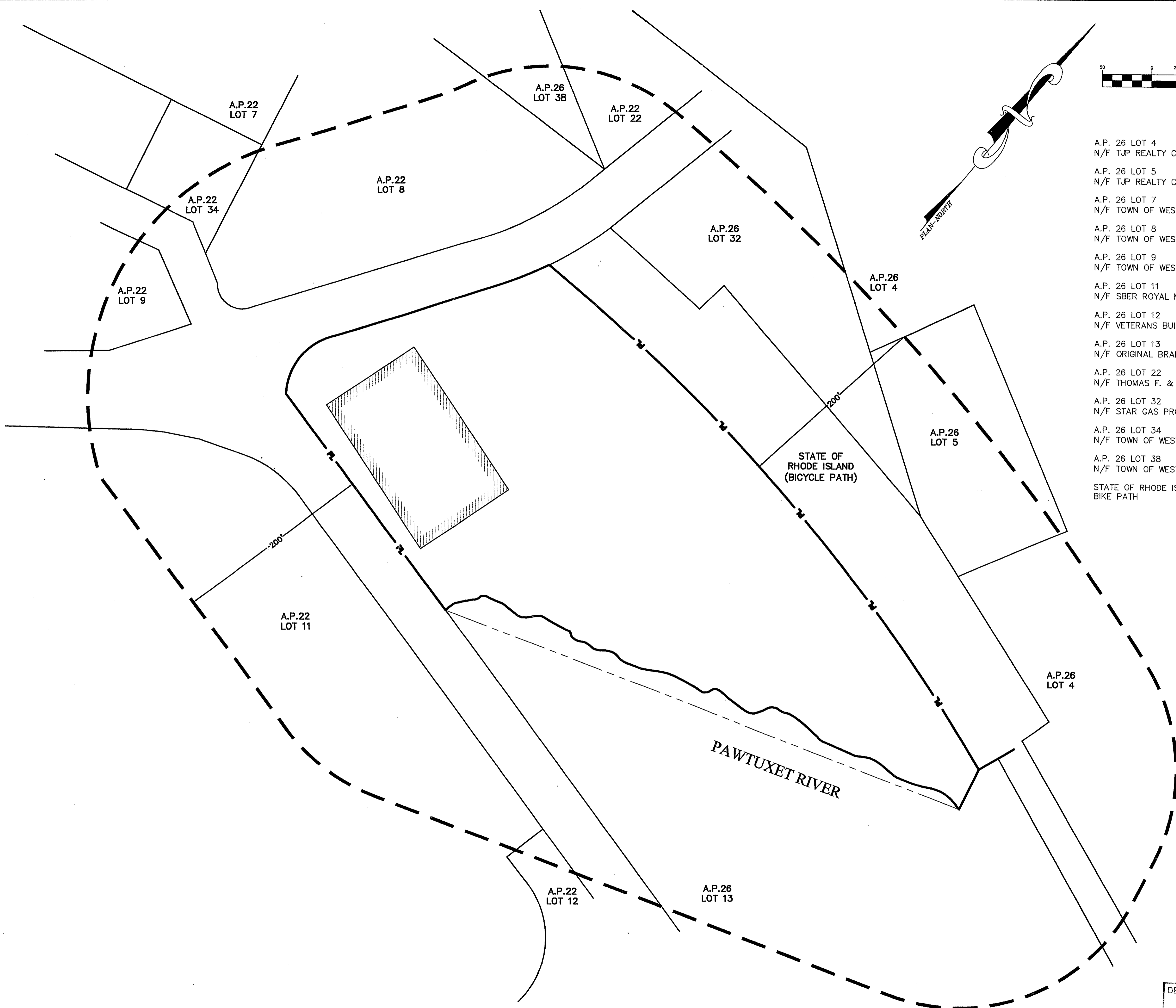
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115 SPACES

Project No.: **07005.00**

Issue Date: **9/26/07**

Sheet No.: **SHEET C-1.1**

Oct 1 2007



PLAN NORTH

- A.P. 26 LOT 4
N/F TJP REALTY CORP.
- A.P. 26 LOT 5
N/F TJP REALTY CORP.
- A.P. 26 LOT 7
N/F TOWN OF WEST WARWICK
- A.P. 26 LOT 8
N/F TOWN OF WEST WARWICK
- A.P. 26 LOT 9
N/F TOWN OF WEST WARWICK
- A.P. 26 LOT 11
N/F SBER ROYAL MILLS LLC
- A.P. 26 LOT 12
N/F VETERANS BUILDING ASSOCIATES, INC.
- A.P. 26 LOT 13
N/F ORIGINAL BRADFORD SOAP WORKS, INC.
- A.P. 26 LOT 22
N/F THOMAS F. & GAIL SENERCHIA, TE
- A.P. 26 LOT 32
N/F STAR GAS PROPANE LP
- A.P. 26 LOT 34
N/F TOWN OF WEST WARWICK
- A.P. 26 LOT 38
N/F TOWN OF WEST WARWICK
- STATE OF RHODE ISLAND
BIKE PATH

COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.
400 SMITH STREET
PROVIDENCE, RI 02908
PHONE: (401) 273-6600

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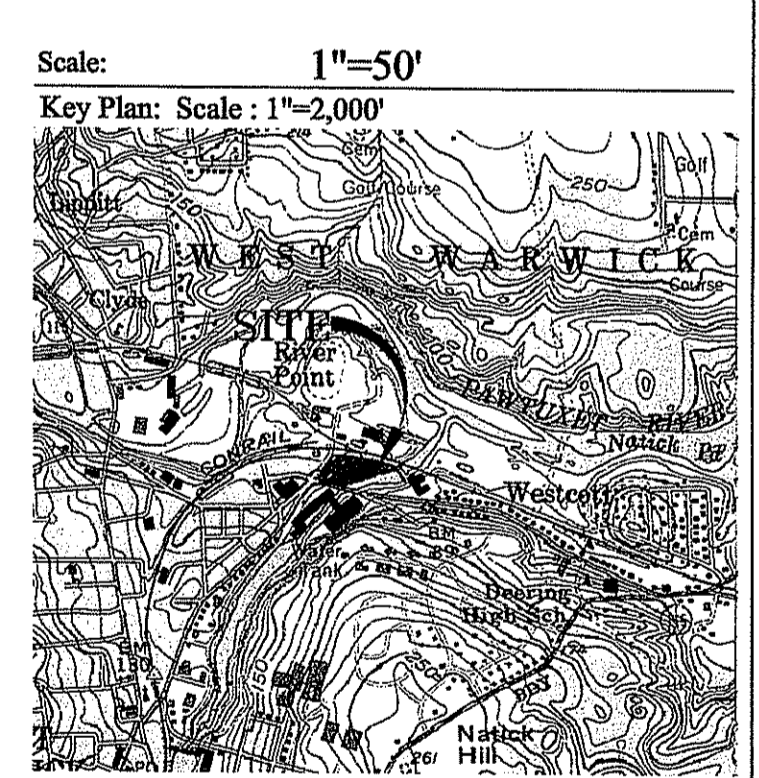
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OFFICE OF WATER RESOURCES
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W. Joseph Cooney

Project Name:
THE COTTON SHED
West Warwick, Rhode Island

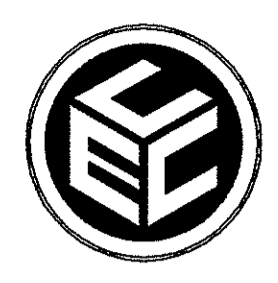
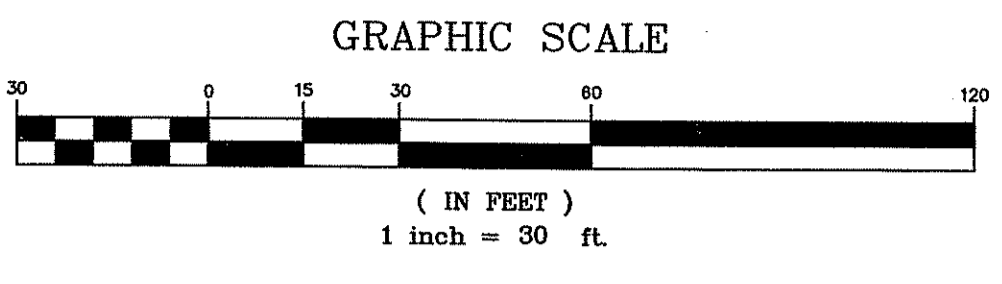
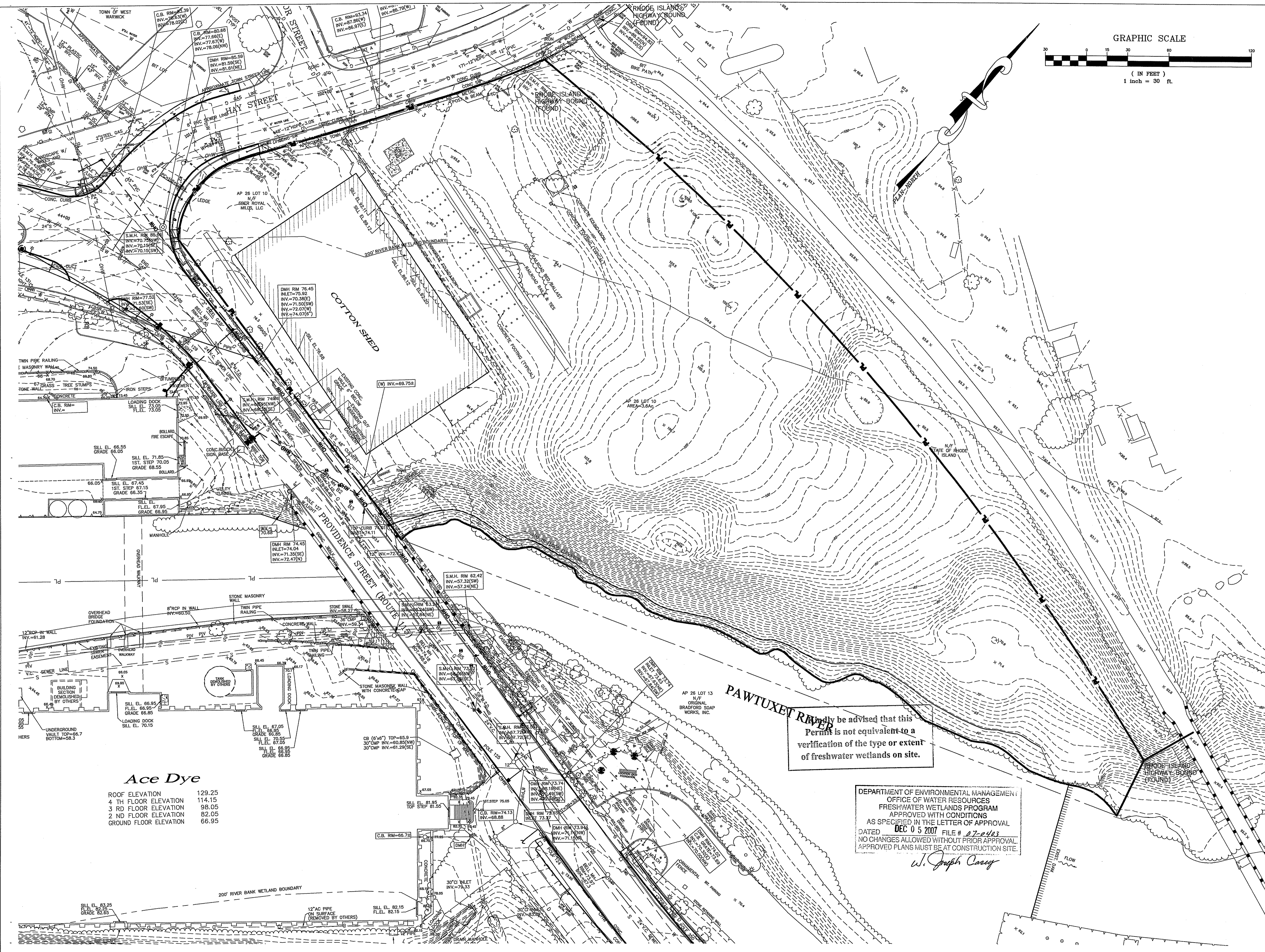
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200 FT RADIUS & ABUTTERS

Project No.:
07005.00

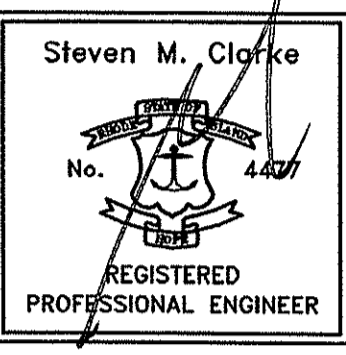
Issue Date:
9/26/07

Sheet No.:
SHEET C-1.2



COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.

400 SMITH STREET
PROVIDENCE, RI 02908
PHONE: (401) 273-6600



Revision:

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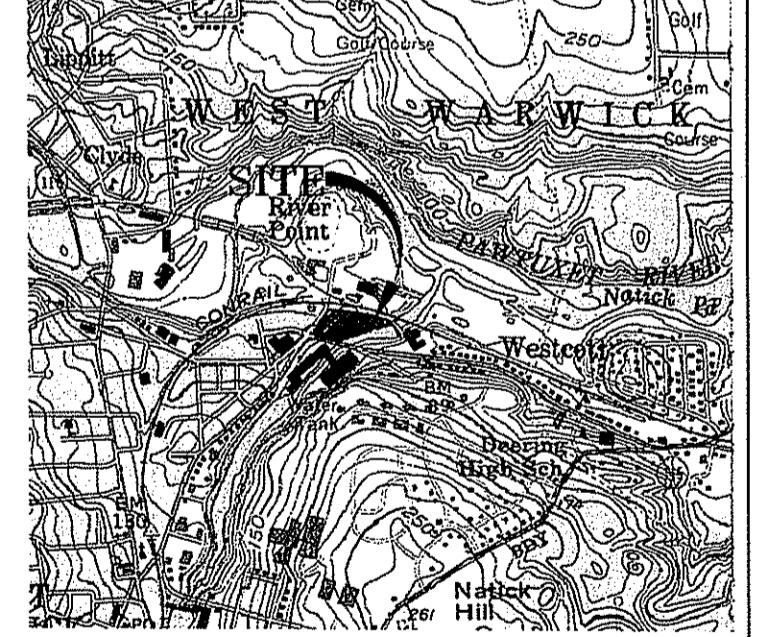
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Drawn: **JP**

Checked:

Scale: **1"=30'**
Key Plan: Scale: 1"=2,000'



Project Name:
THE COTTON SHED
West Warwick, Rhode Island

Sheet Name:

EXISTING CONDITIONS.

Project No.:
07005.00 OCT 1 2007

Issue Date:
9/26/07

Sheet No.:
SHEET C-2.1

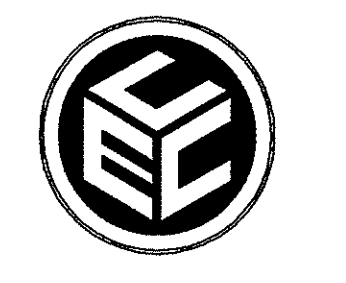
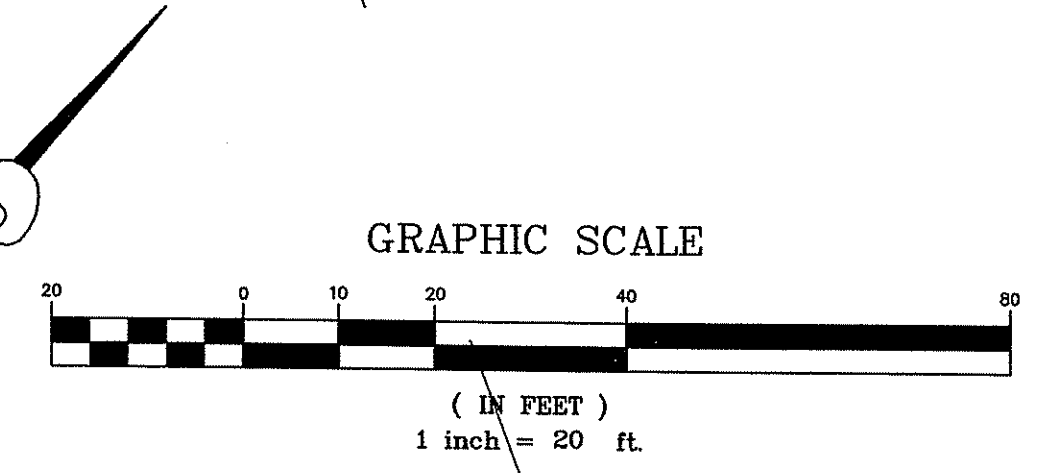
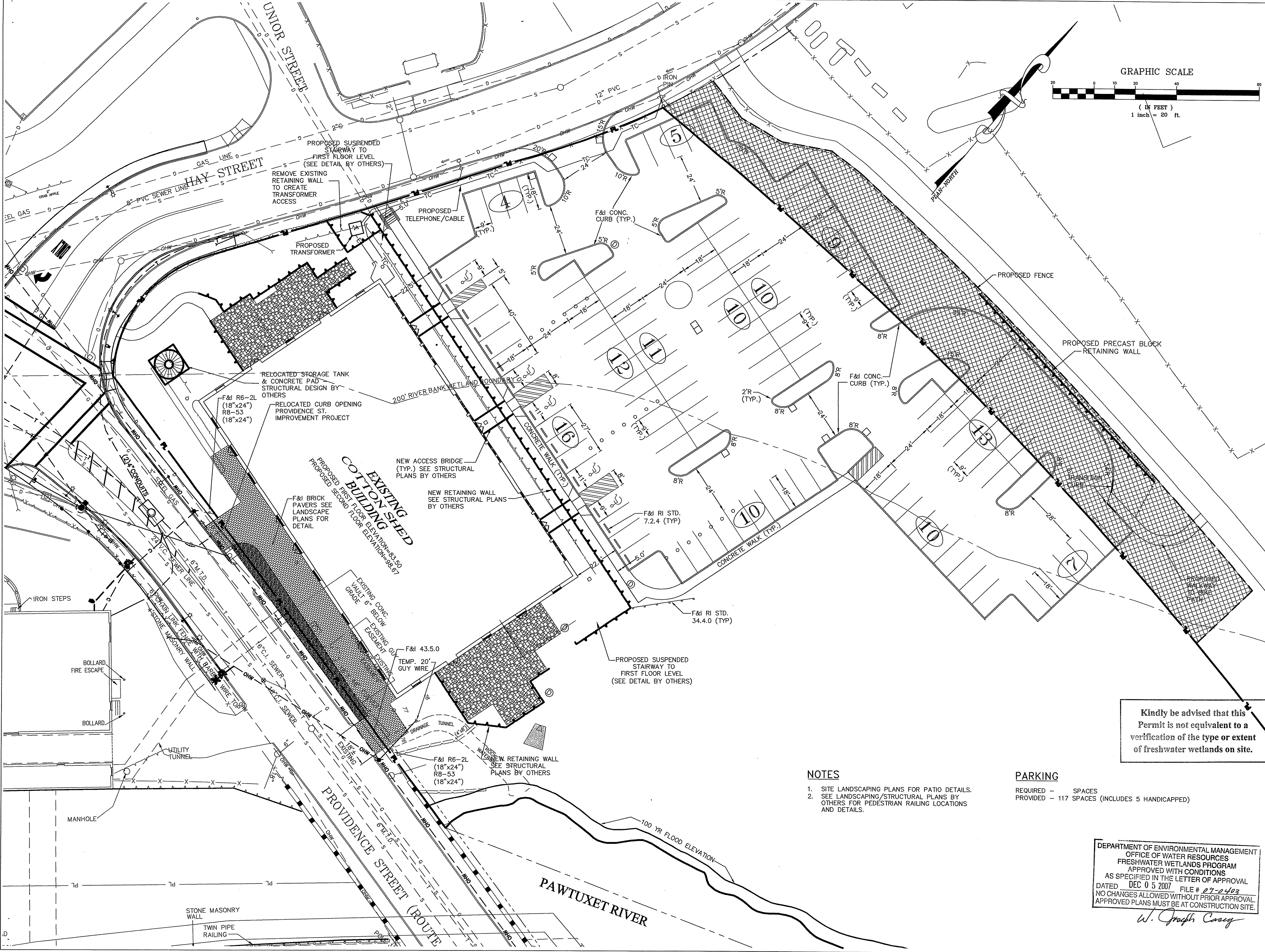
Ace Dye

ROOF ELEVATION	129.25
4 TH FLOOR ELEVATION	114.15
3 RD FLOOR ELEVATION	98.05
2 ND FLOOR ELEVATION	82.05
GROUND FLOOR ELEVATION	66.95

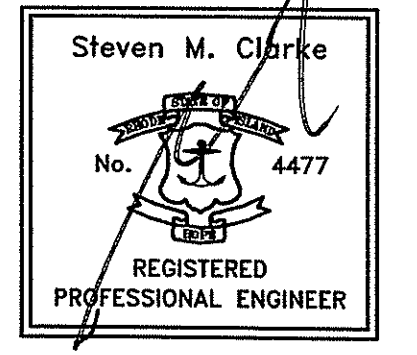
Permittee to be advised that this
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verification of the type or extent
of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED **DEC 05 2007** FILE # **07-0403**
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

W. Joseph Conroy



COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.
400 SMITH STREET
PROVIDENCE, RI 02908
PHONE: (401) 273-6600



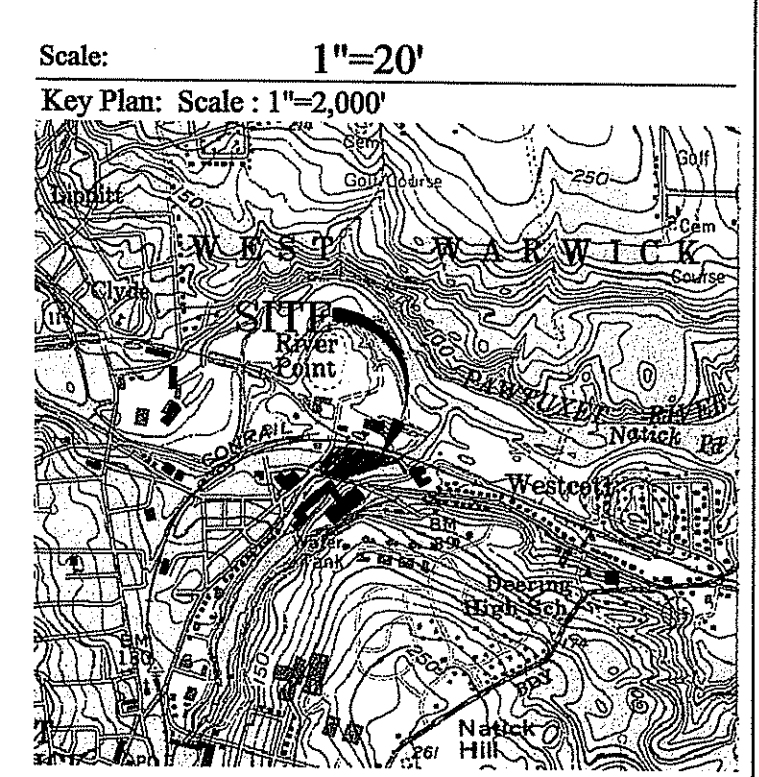
Revision:

1
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ASSESSORS REFERENCE:
A.P. 26 LOT 10

ZONING REFERENCE:
MILL USE ORDINANCE - MILL CONVERSION
A.P. 26 LOT 10 IS SUBJECT TO WEST WARWICK ZONING ORDINANCE SECTION 5.14 RE-USE DEVELOPMENTS OF HISTORIC MILL STRUCTURES.

Drawn: JP
Checked:



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- NOTES**
1. SITE LANDSCAPING PLANS FOR PATIO DETAILS.
 2. SEE LANDSCAPING/STRUCTURAL PLANS BY OTHERS FOR PEDESTRIAN RAILING LOCATIONS AND DETAILS.

PARKING
REQUIRED - SPACES
PROVIDED - 117 SPACES (INCLUDES 5 HANDICAPPED)

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W. Joseph Conroy

Project Name:
THE COTTON SHED
West Warwick, Rhode Island

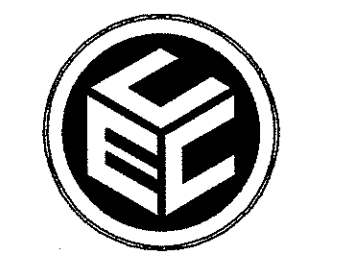
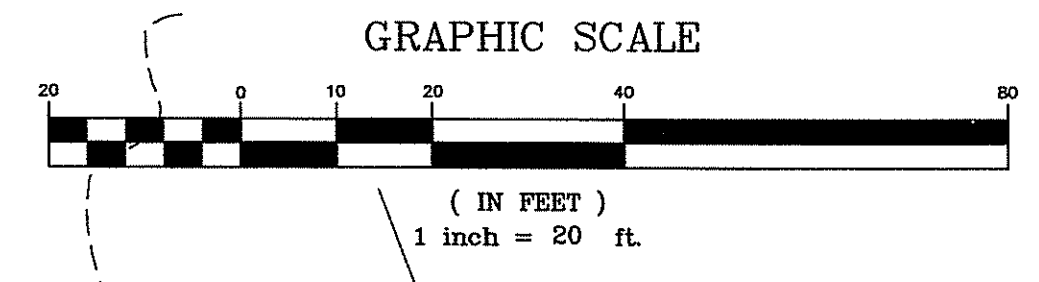
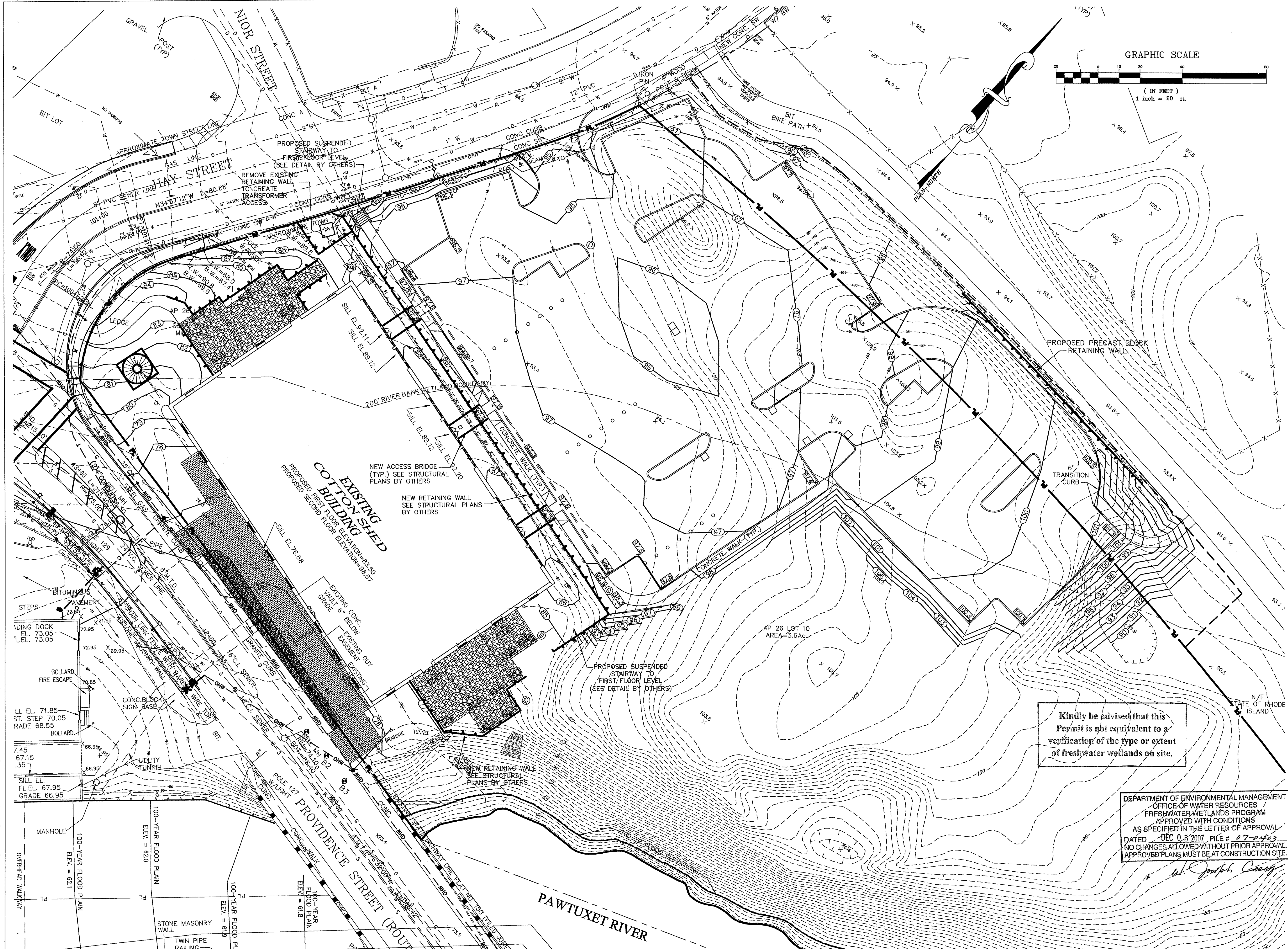
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SITE LAYOUT AND MATERIALS

Project No.:
07005.00 OCT 1 2007

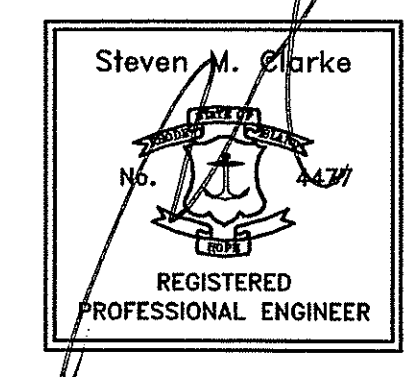
Issue Date:
9/26/07

Sheet No.:
SHEET C-3.1

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400 SMITH STREET
PROVIDENCE, RI 02908
PHONE: (401) 273-6600



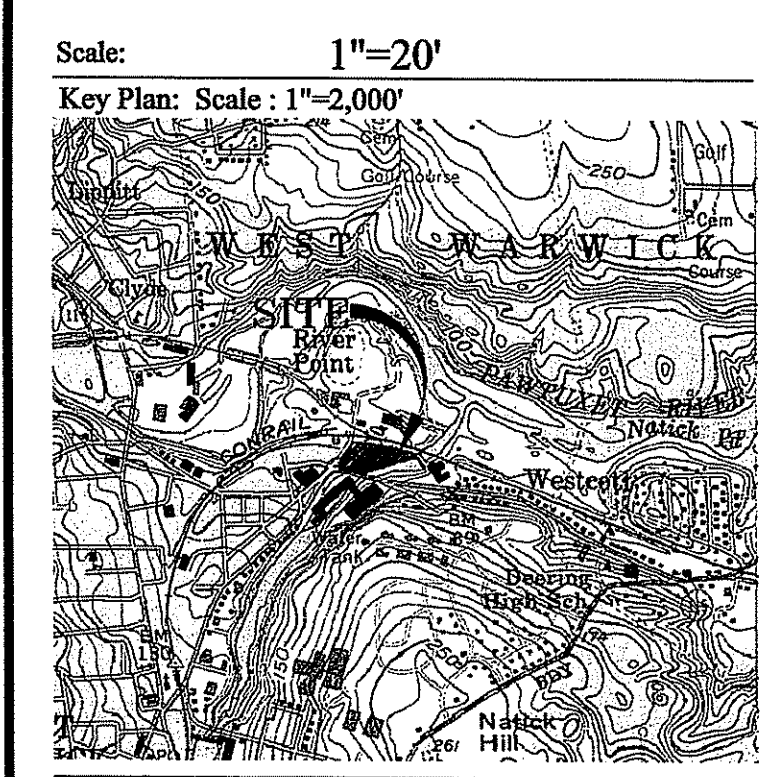
Revision:

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Drawn: JP
Checked:



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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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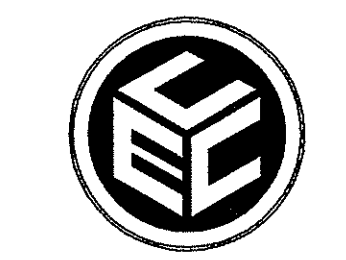
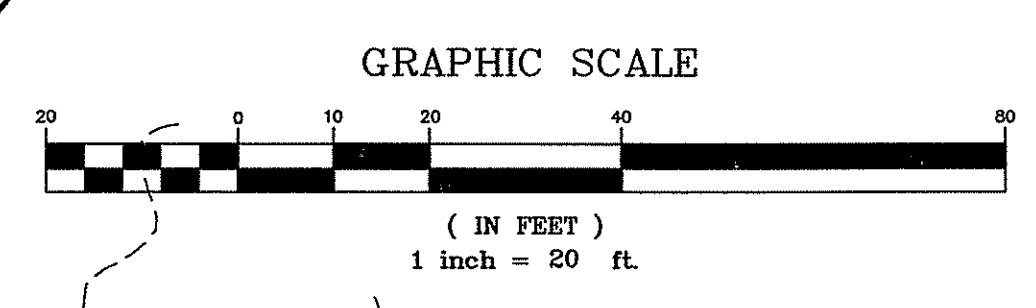
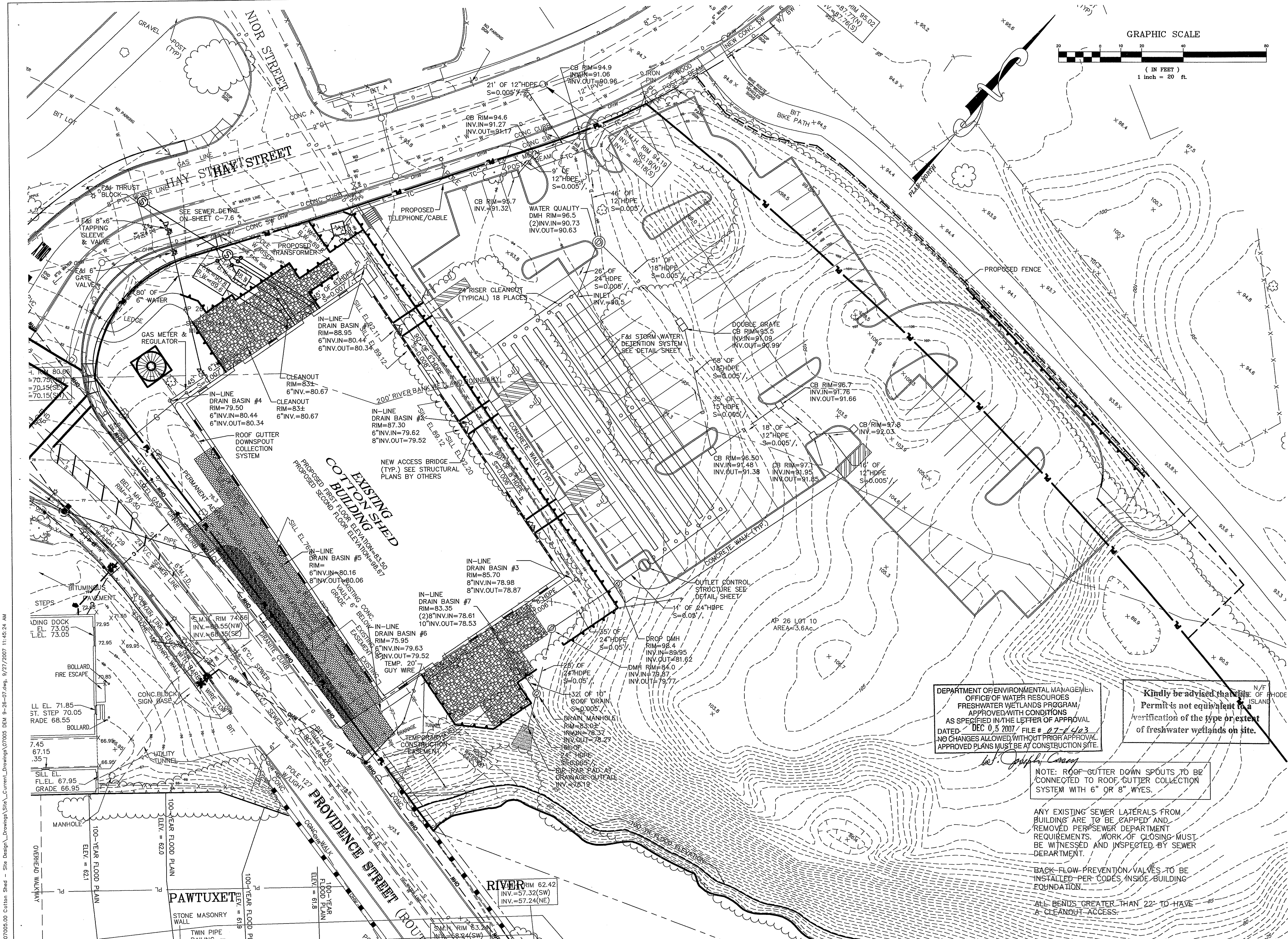
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Project No.:
07005.00

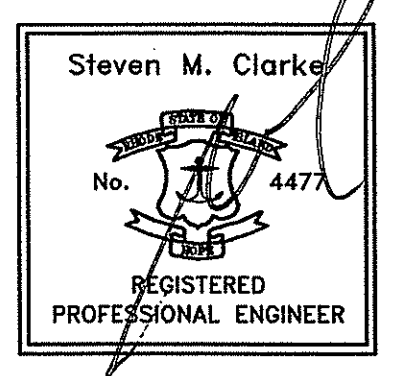
Issue Date:
9/26/07

Sheet No.:
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 400 SMITH STREET
 PROVIDENCE, RI 02908
 PHONE: (401) 273-6600



Revision:

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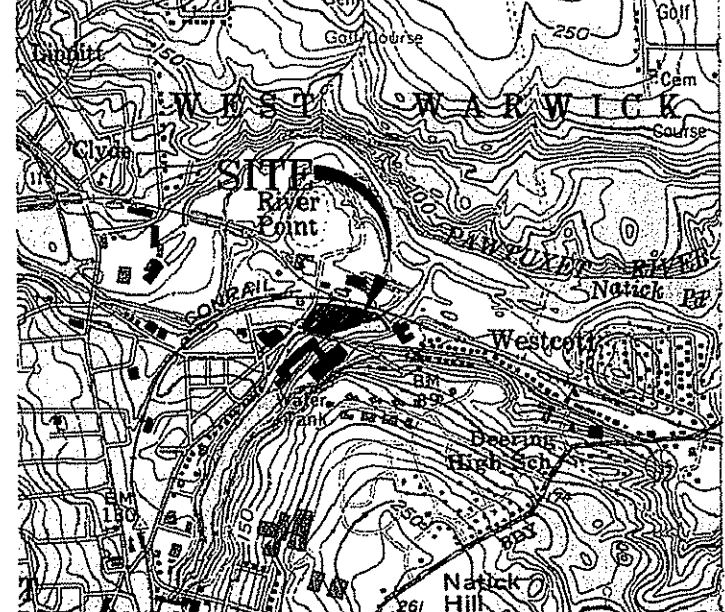
ASSESSORS REFERENCE:
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Drawn: JP

Checked:

Scale: 1"=20'
 Key Plan: Scale: 1"=2,000'



Project Name:

THE COTTON SHED
 West Warwick, Rhode Island

UTILITY & DRAINAGE

Project No.: **07005.00** OCT 1 2007
 Issue Date: **9/26/07**
 Sheet No.: **SHEET C-5.1**

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 OFFICE OF WATER RESOURCES
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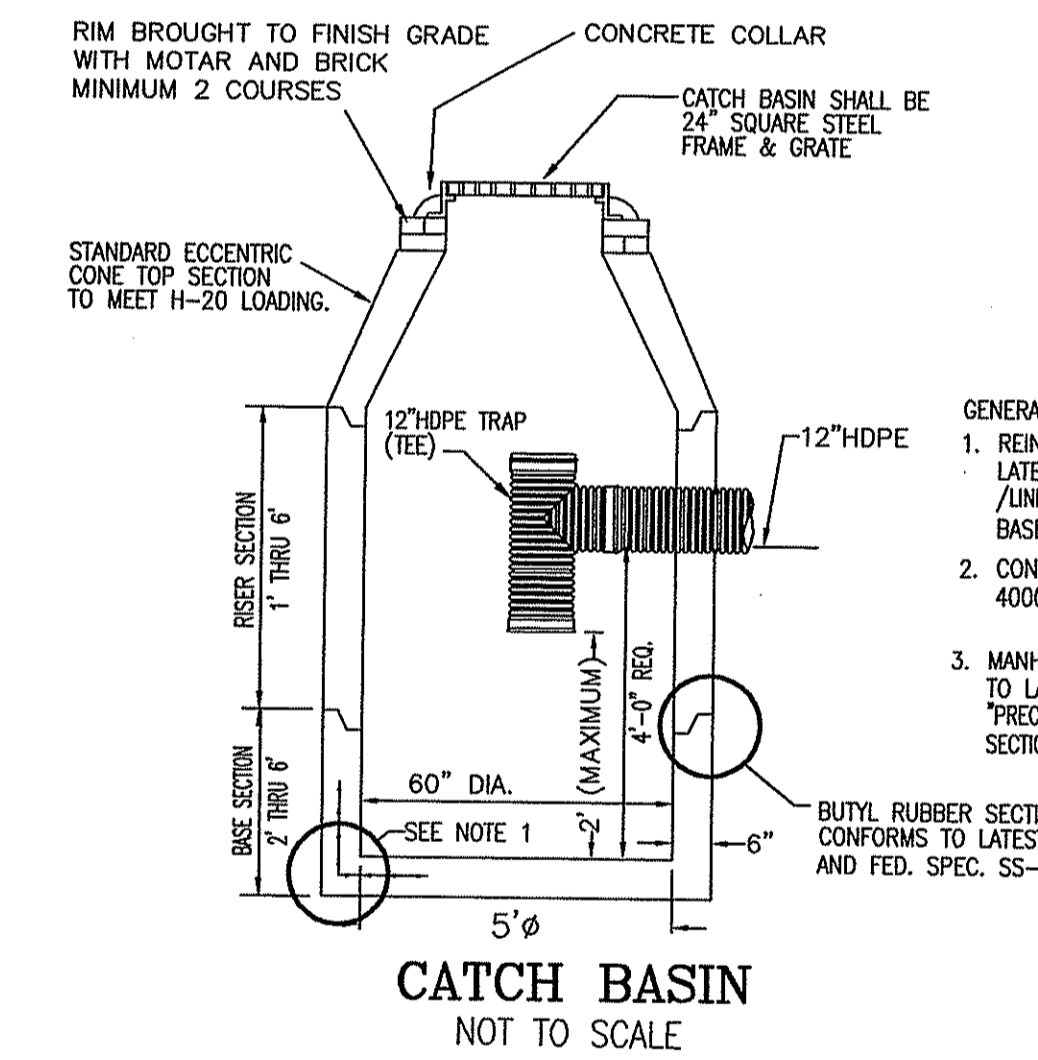
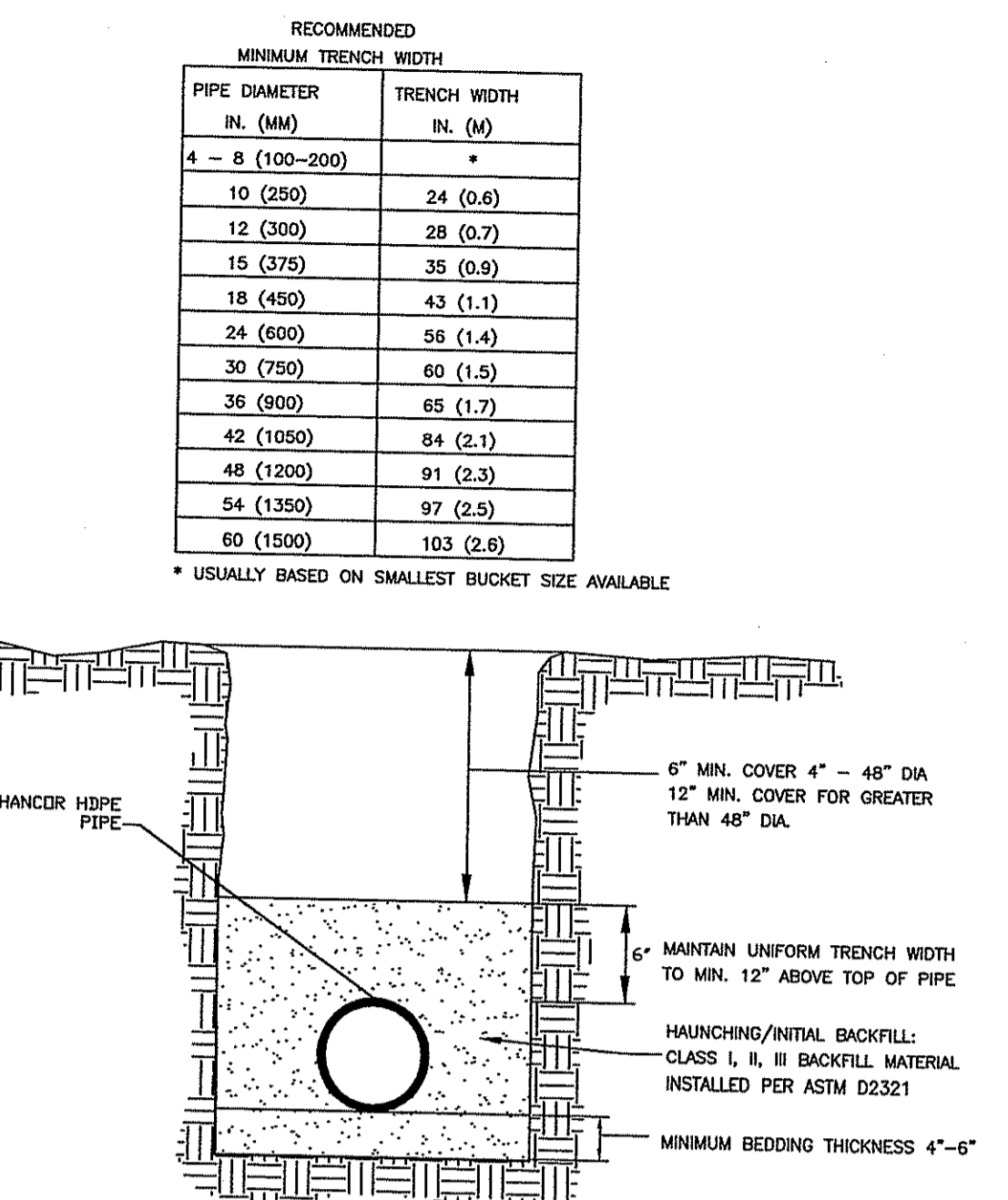
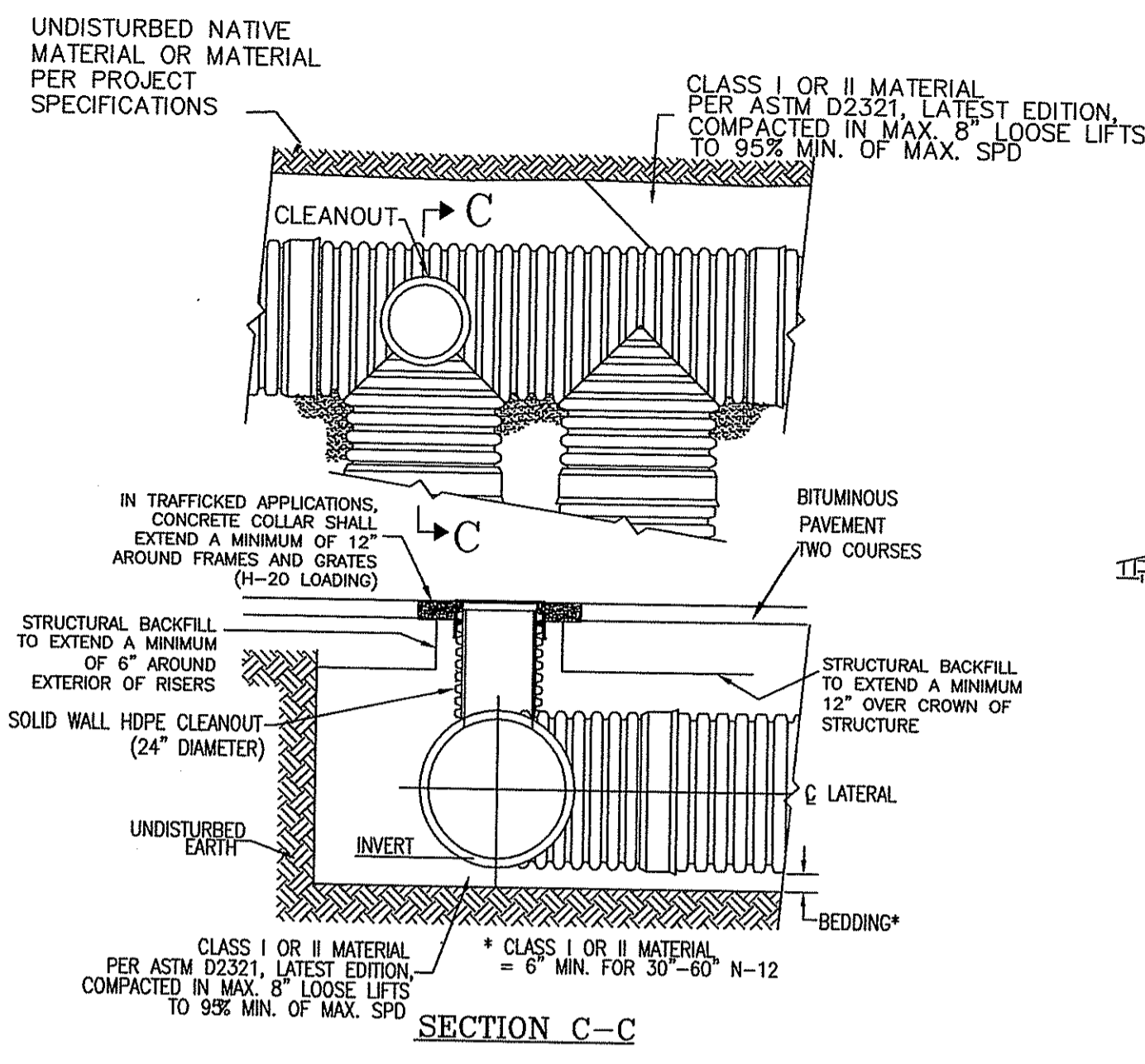
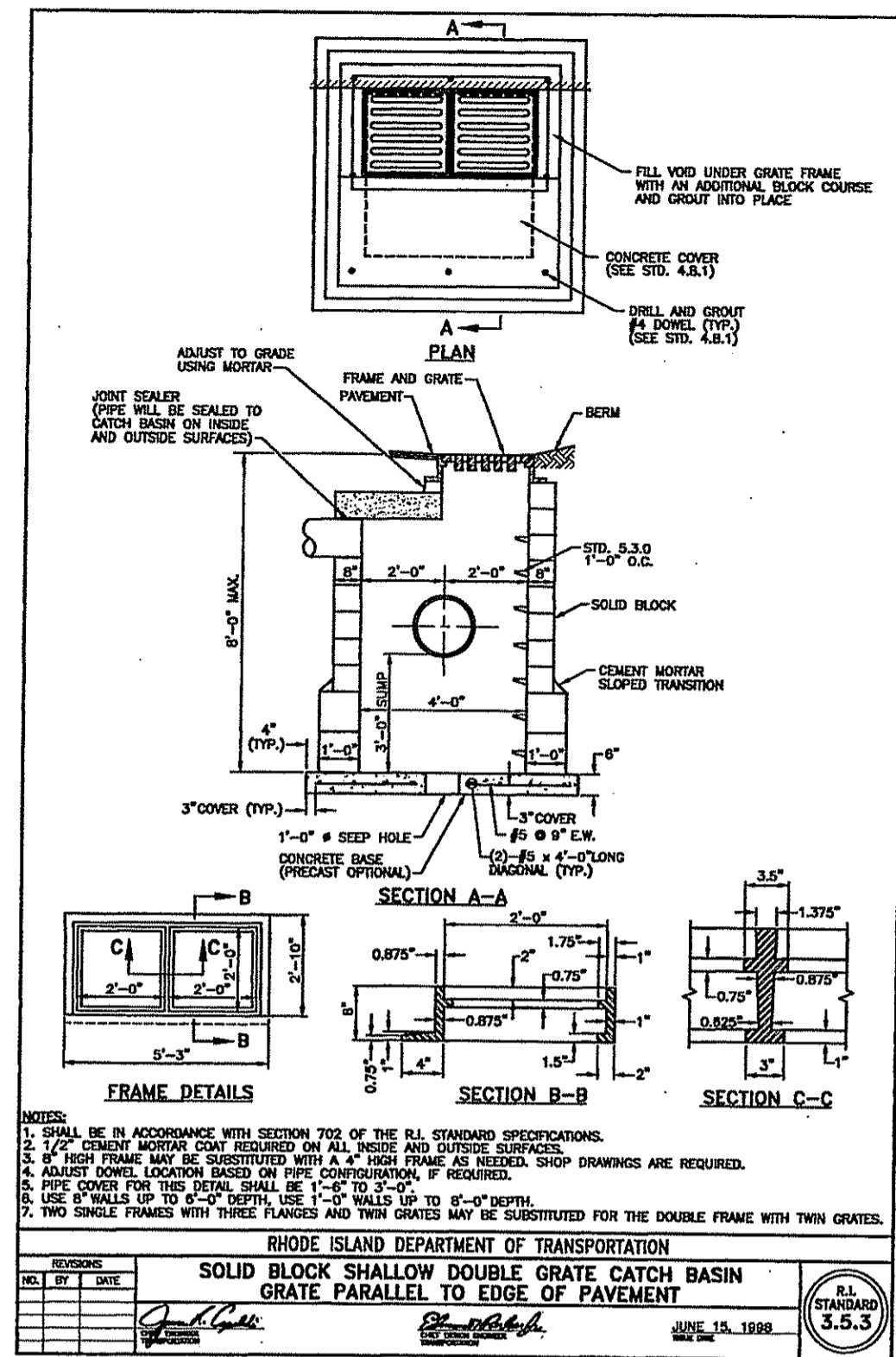
NOTE: ROOF-GUTTER DOWN SPOUTS TO BE CONNECTED TO ROOF GUTTER COLLECTION SYSTEM WITH 6" OR 8" WYES.

ANY EXISTING SEWER LATERALS FROM BUILDING ARE TO BE CAPPED AND REMOVED PER SEWER DEPARTMENT REQUIREMENTS. WORK OF CLOSING MUST BE WITNESSED AND INSPECTED BY SEWER DEPARTMENT.

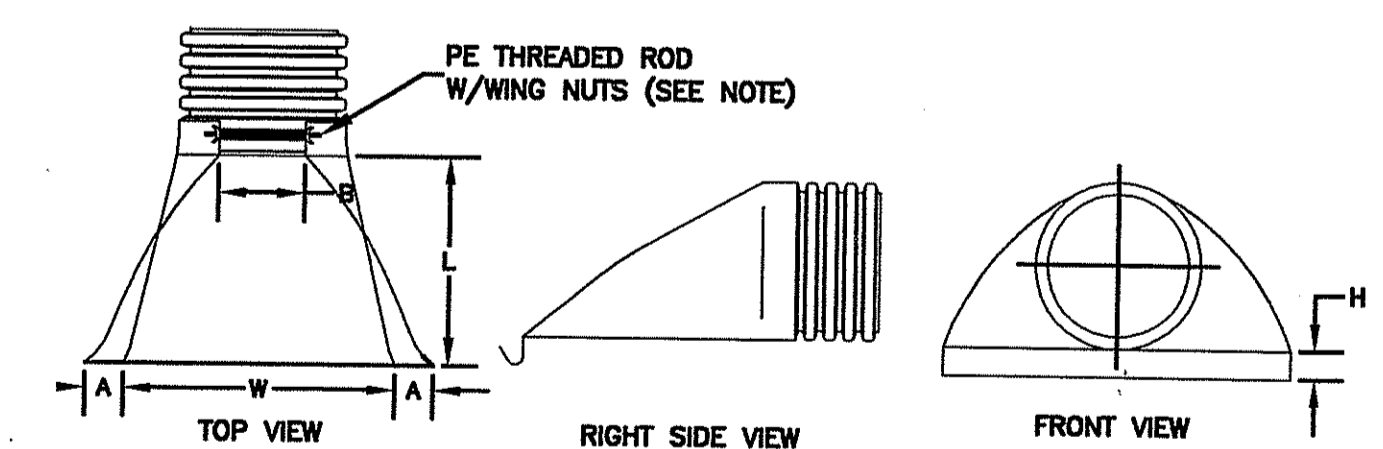
BACK-FLOW PREVENTION VALVES TO BE INSTALLED PER CODES INSIDE BUILDING FOUNDATION.

ALL BENDS GREATER THAN 22' TO HAVE A CLEANOUT ACCESS.

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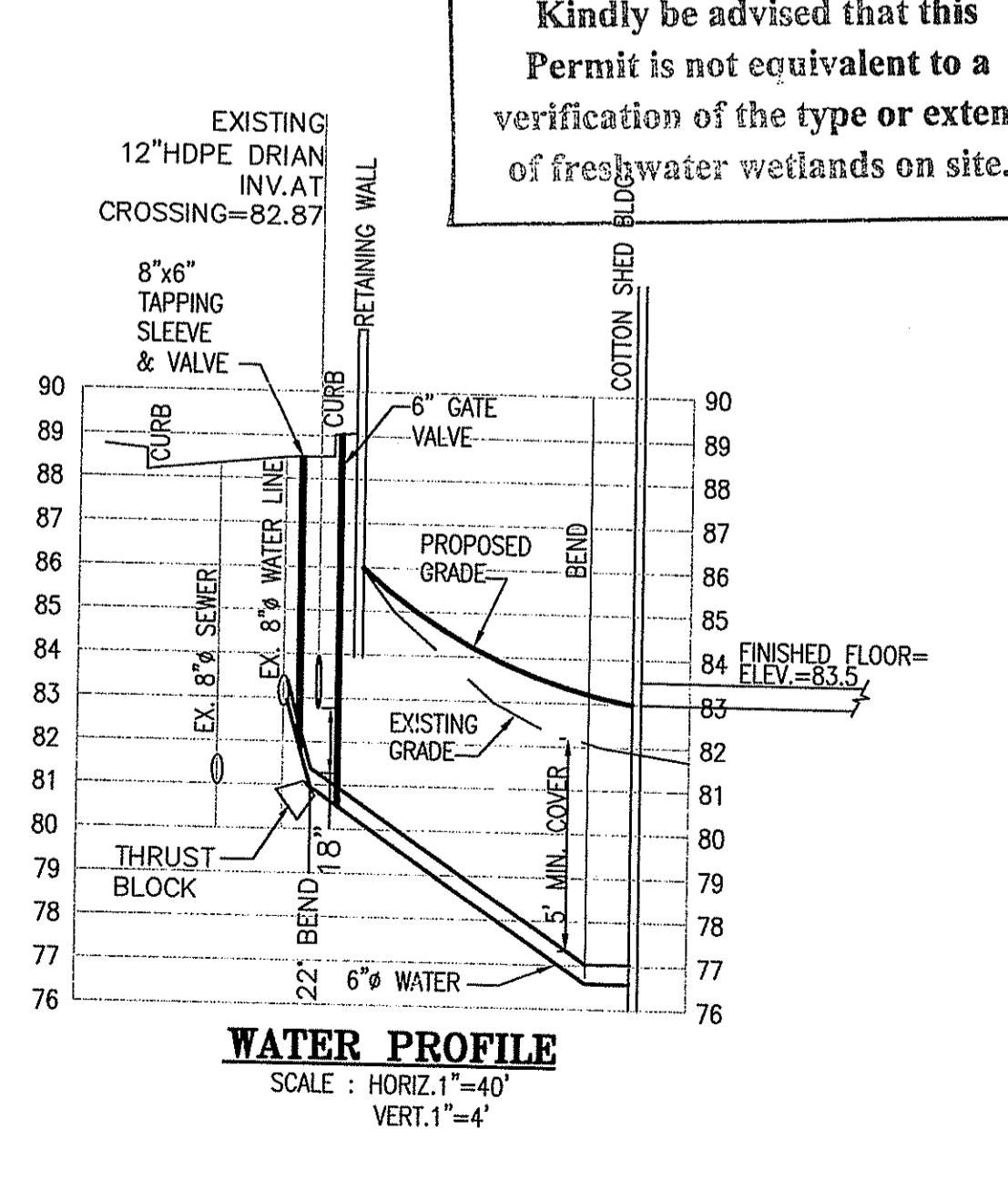
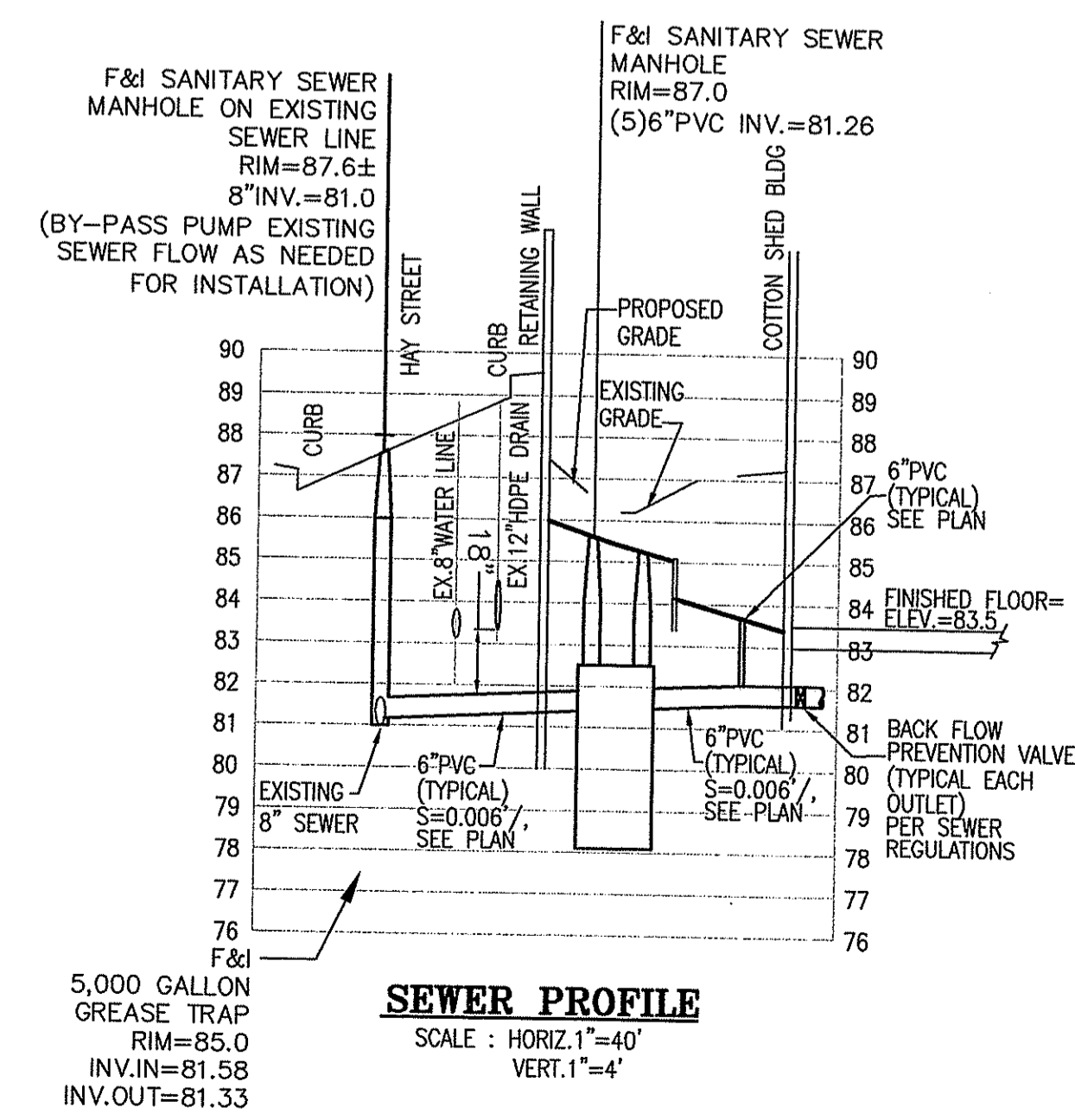


- GENERAL NOTES:
1. REINFORCED STEEL CONFORM TO LATEST ASTM A185 SPEC. 0.15 SQ. IN./LINEAR FT. AND 0.15 SQ. IN. (BOTH WAYS) BASE BOTTOM.
 2. CONCRETE COMPRESSIVE STRENGTH-4000 PSI MINIMUM.
 3. MANHOLE DESIGN SPECIFICATIONS CONFORM TO LATEST ASTM C478 SPEC. FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS.*



PART #	PIPE SIZE	A	B (MAX)	H	L	W
1210NP	12 in (300 mm)	6.50 in (165 mm)	10.00 in (254 mm)	6.50 in (165 mm)	25.00 in (635 mm)	29.00 in (737 mm)
1510NP	15 in (375 mm)	6.50 in (165 mm)	10.00 in (254 mm)	6.50 in (165 mm)	25.00 in (635 mm)	29.00 in (737 mm)
1810NP	18 in (450 mm)	7.50 in (191 mm)	15.00 in (381 mm)	6.50 in (165 mm)	32.00 in (813 mm)	35.00 in (889 mm)
2410NP	24 in (600 mm)	7.50 in (191 mm)	18.00 in (457 mm)	6.50 in (165 mm)	36.00 in (914 mm)	45.00 in (1143 mm)
3012NP	30 in (750 mm)	10.50 in (267 mm)	N/A	7.00 in (178 mm)	53.00 in (1346 mm)	68.00 in (1727 mm)
3612NP	36 in (900 mm)	10.50 in (267 mm)	N/A	7.00 in (178 mm)	53.00 in (1346 mm)	68.00 in (1727 mm)

NOTE: PE THREADED ROD W/WING NUTS PROVIDED FOR END SECTIONS 12"-24". 30" & 36" END SECTIONS TO BE WELDED TO PIPE PER MANUFACTURER'S RECOMMENDATIONS.
NOTE: ALL DIMENSIONS ARE NOMINAL
FLARED END SECTION



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400 SMITH STREET
PROVIDENCE, RI 02908
PHONE: (401) 273-6600

Steven M. Clarke
No. 1477
REGISTERED PROFESSIONAL ENGINEER

Revision:

1
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4
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ASSESSORS REFERENCE:
A.P. 26 LOT 10

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Drawn: JP
Checked:
Scale: AS NOTED
Key Plan: Scale: 1"=2,000'

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W. Joseph Conroy

Project Name:
THE COTTON SHED
West Warwick, Rhode Island

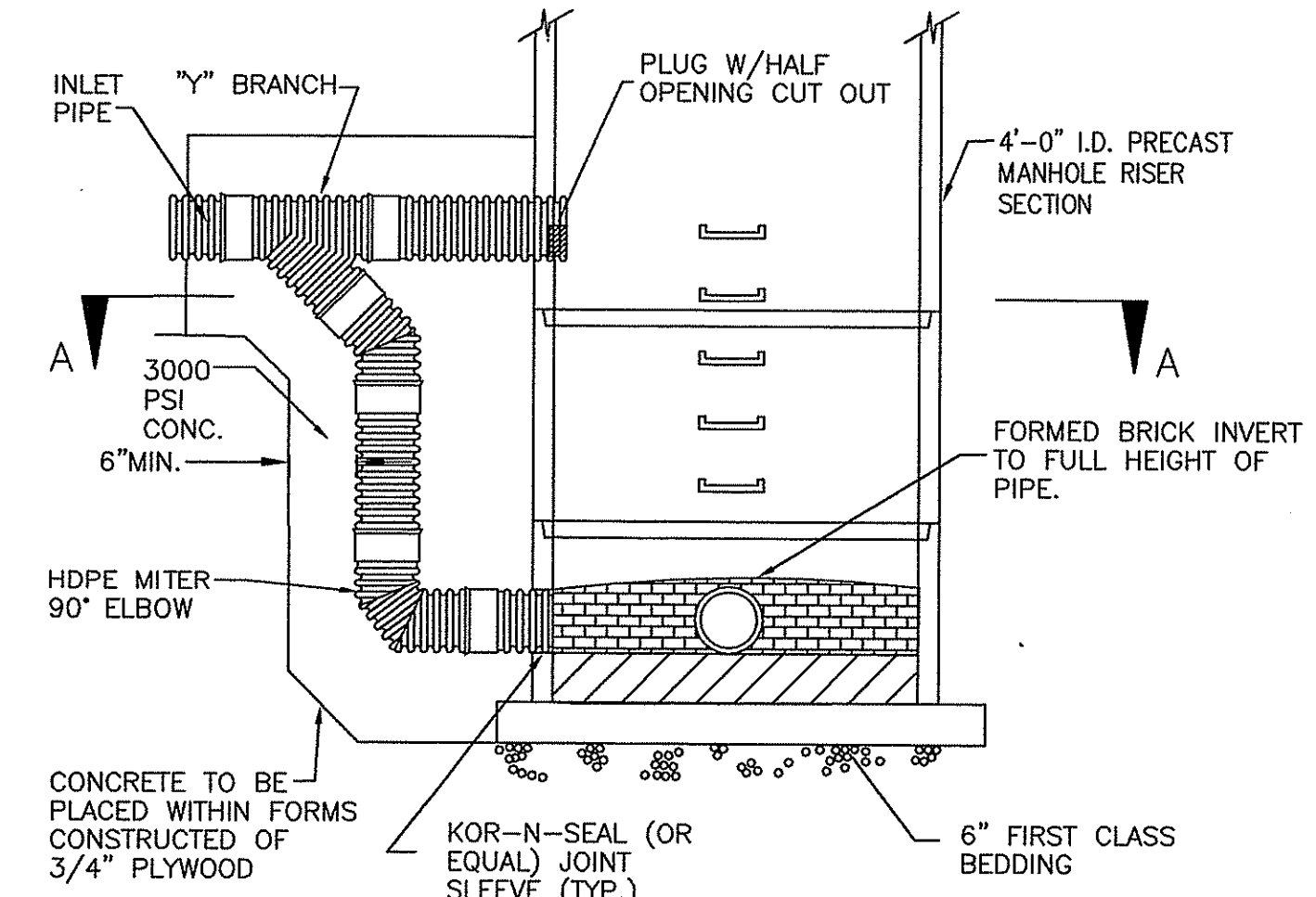
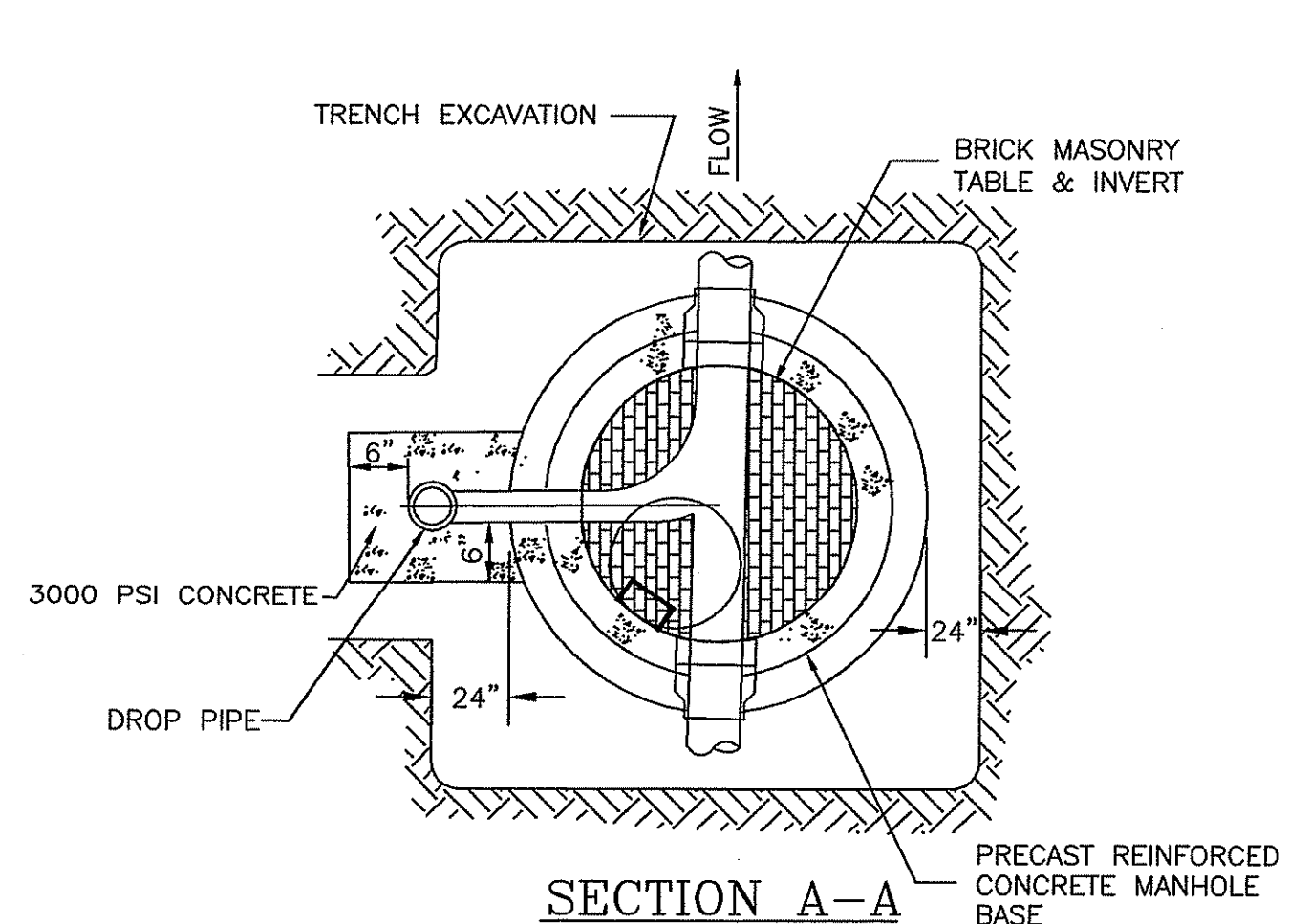
Sheet Name:
CONSTRUCTION DETAILS

Project No.: 07005.00
OCT 1 2007

Issue Date:
9/26/07

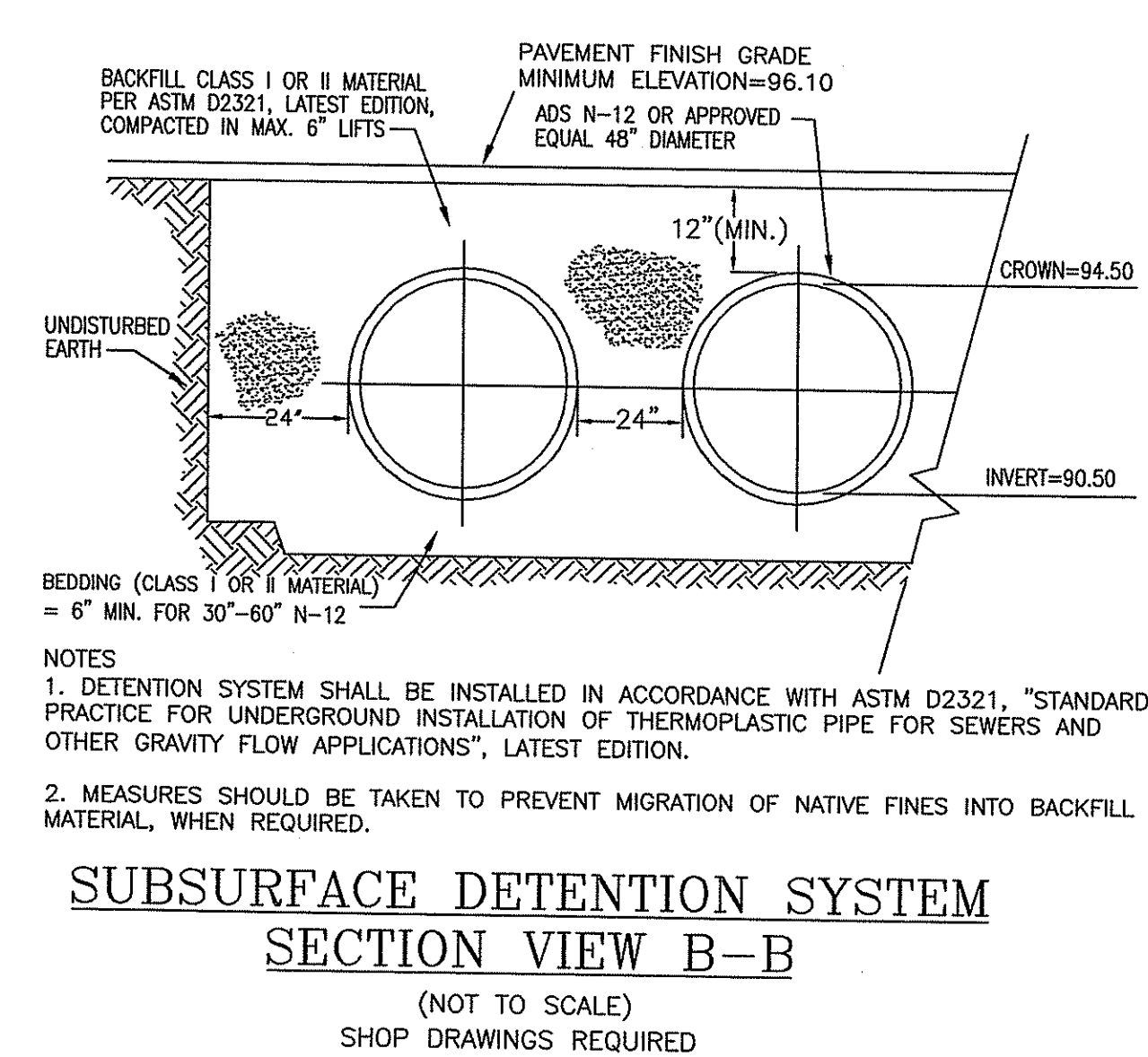
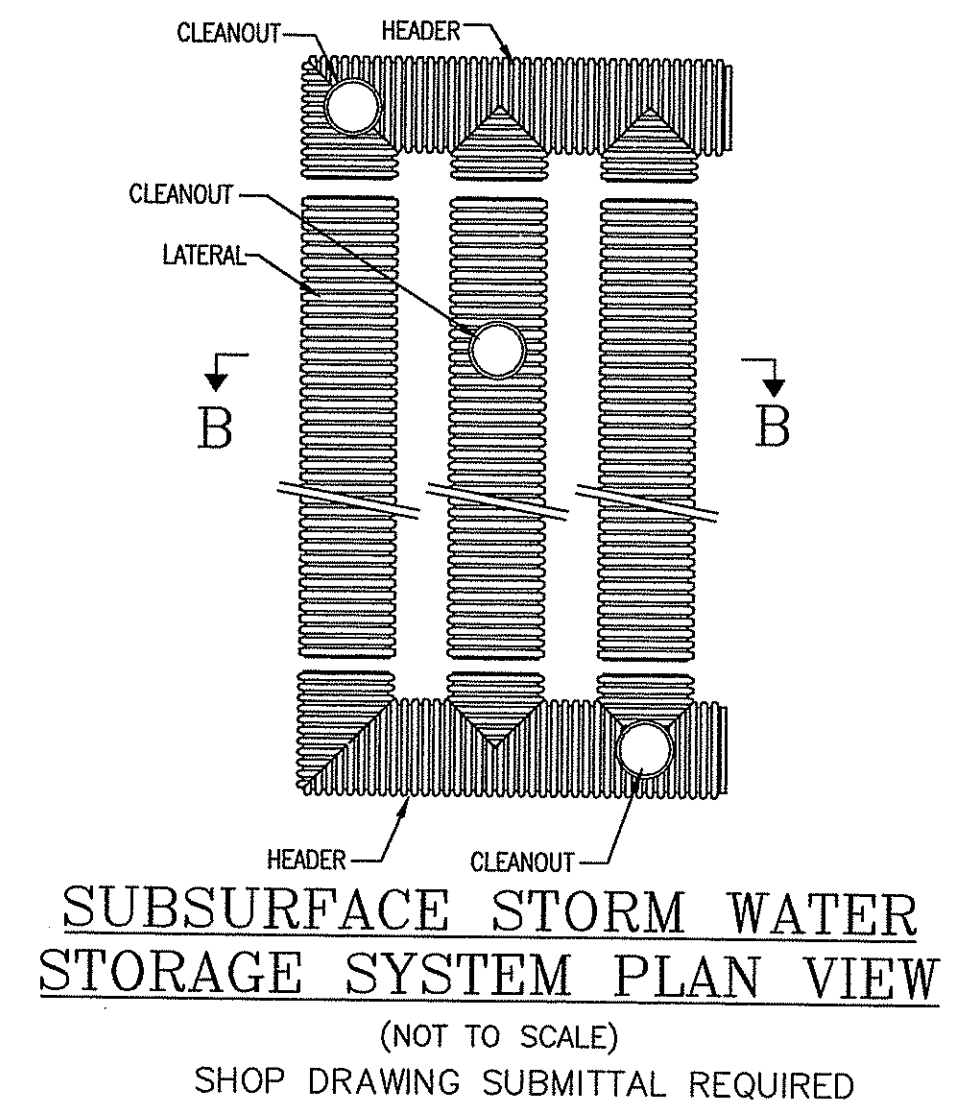
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SHEET C-7.1

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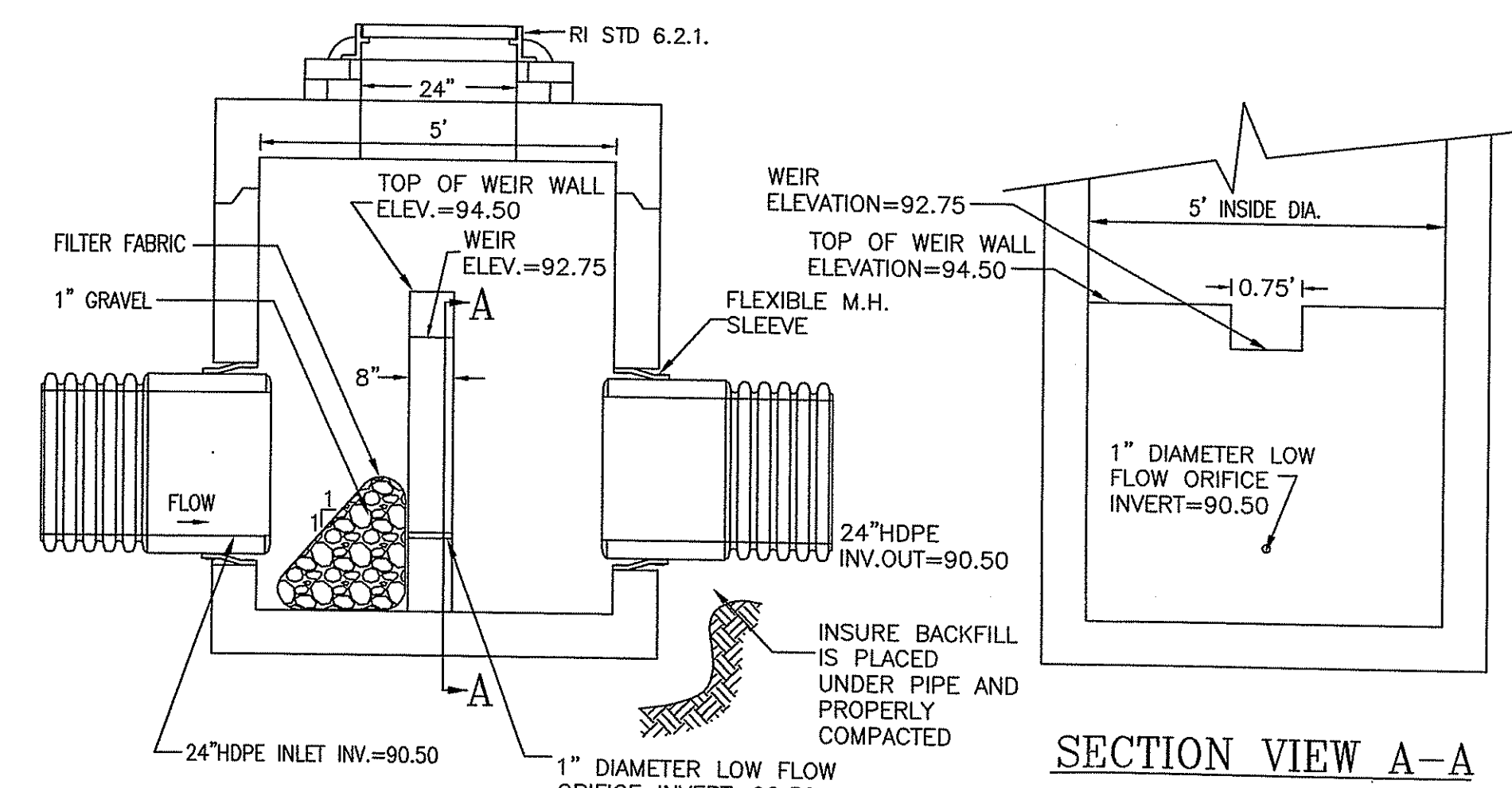
EXTERNAL DROP DRAIN MANHOLE DETAIL
NOT TO SCALE
SHOP DRAWING SUBMITTAL REQUIRED

- NOTE:
1. ALL LIFTING HOLES TO BE PLUGGED IN AND OUT WITH HYDRAULIC CEMENT.
 2. DROP PIPE SHALL BE HDPE AND SAME SIZE AS INLET PIPE.



SUBSURFACE DETENTION SYSTEM SECTION VIEW B-B
(NOT TO SCALE)
SHOP DRAWINGS REQUIRED

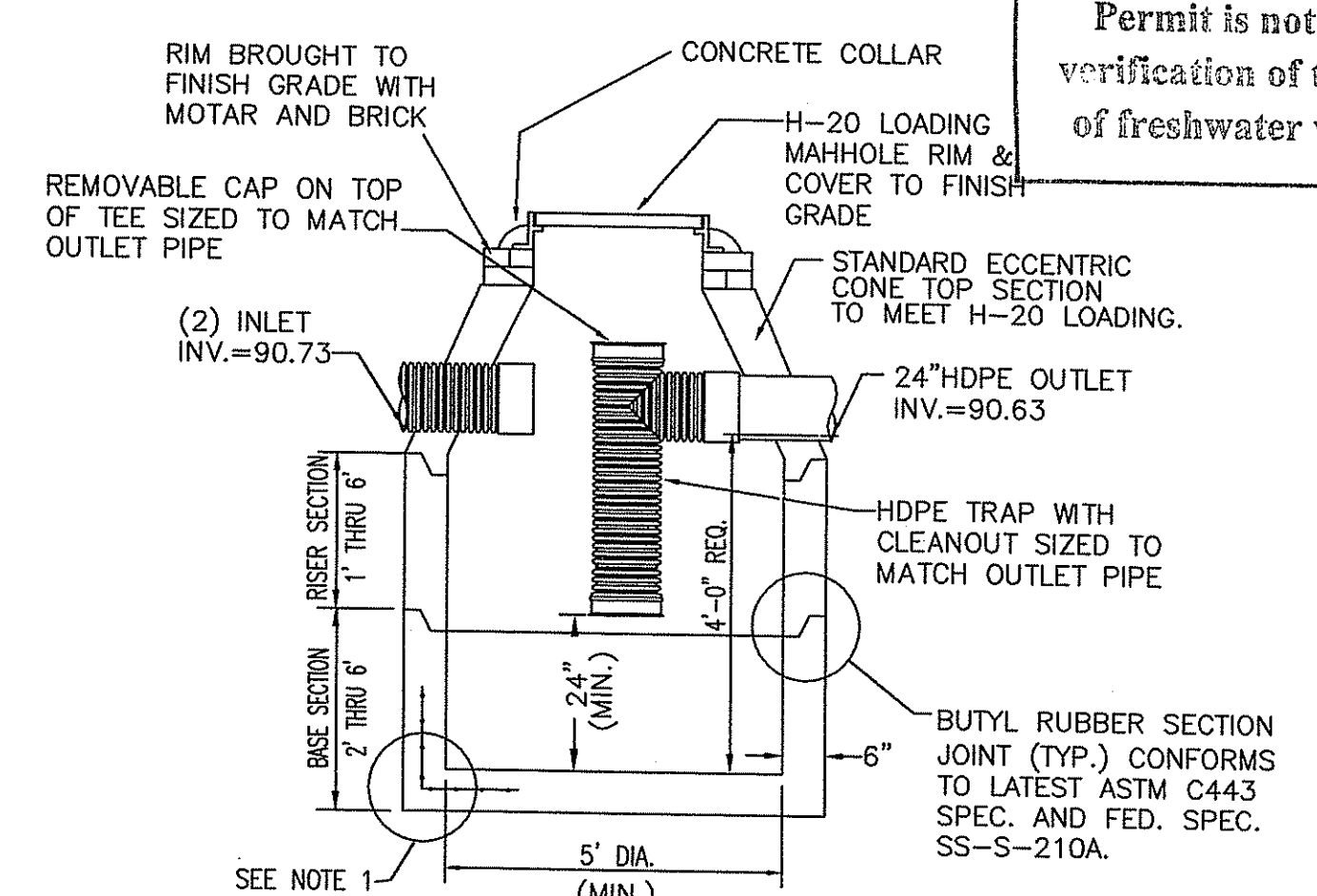
- NOTES
1. DETENTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
 2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.



OUTLET CONTROL STRUCTURE
(NOT TO SCALE)
SHOP DRAWINGS REQUIRED

MAINTENANCE NOTE: DURING POWER WASHING OPERATIONS, THE OUTLET PIPE INSIDE OF THE OUTLET CONTROL UNIT IS TO BE BLOCKED OFF AND A VACUUM TRUCK UTILIZED TO PREVENT SEDIMENT FROM BEING TRANSPORTED DOWN SLOPE. [INSPECTION MUST BE PERFORMED A MINIMUM OF ONCE A YEAR DURING JULY, AUGUST OR SEPTEMBER.]

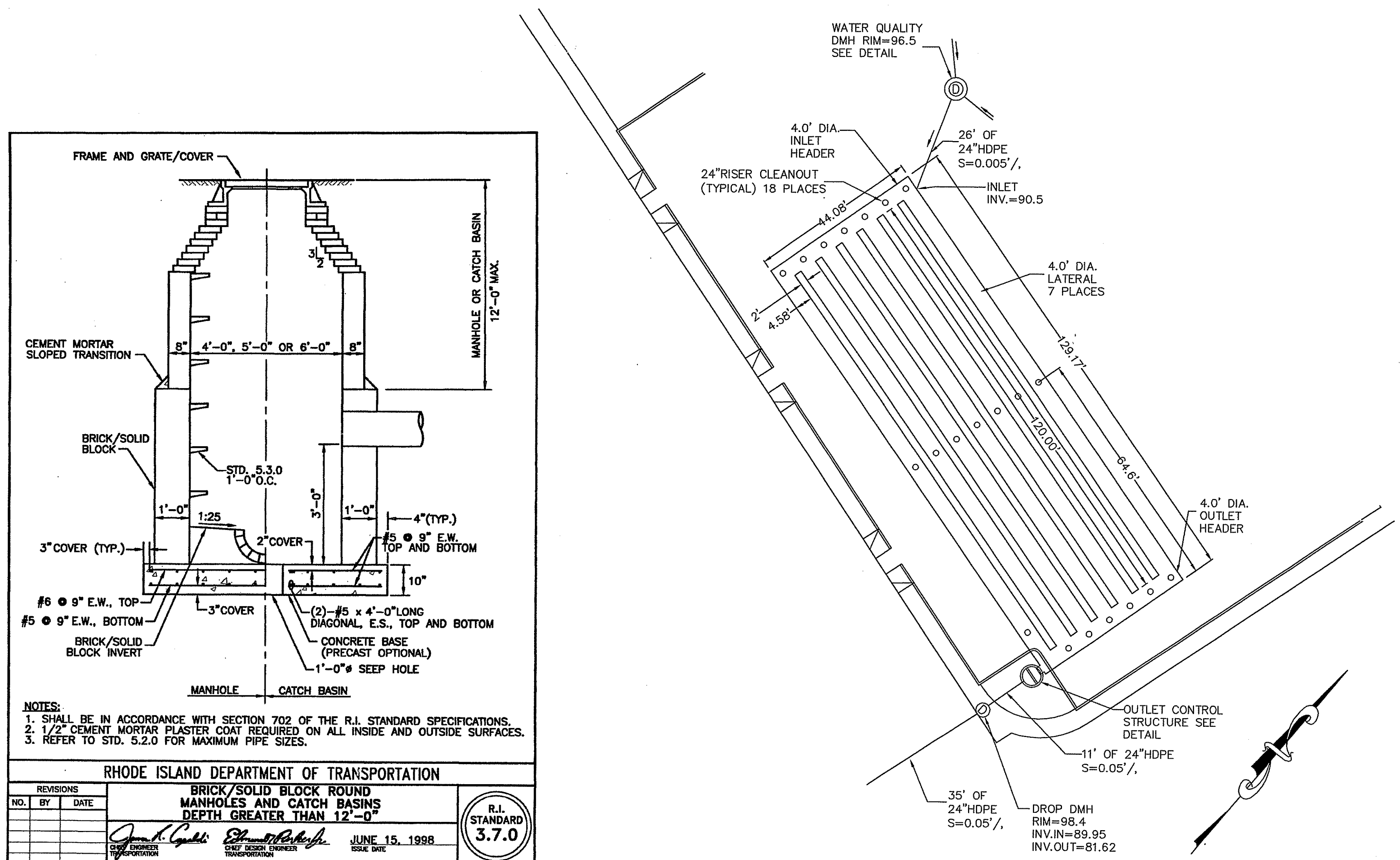
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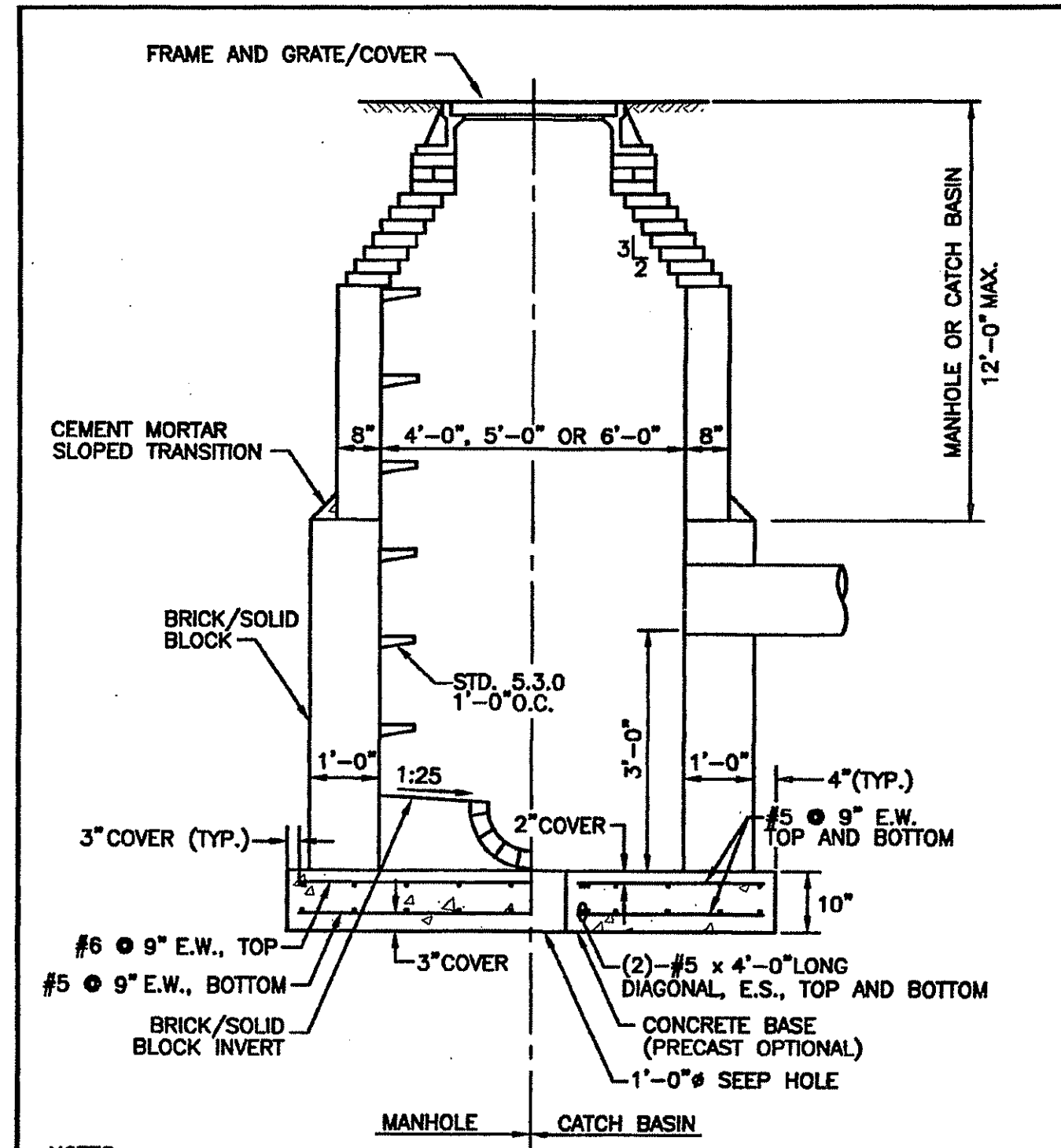
WATER QUALITY DMH DETAIL
NOT TO SCALE

- GENERAL NOTES:
1. REINFORCED STEEL CONFORM TO LATEST ASTM A185 SPEC. 0.15 SQ. IN. / LINEAR FT. AND 0.15 IN. (BOTH WAYS) BASE BOTTOM.
 2. CONCRETE COMPRESSIVE STRENGTH-4000 PSI MINIMUM.
 3. CATCH BASIN DESIGN SPECIFICATIONS CONFORM TO LATEST ASTM C478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS."

NOTE:
SHOP DRAWING SUBMITTAL REQUIRED FOR ALL DRAINAGE STRUCTURES.



STORM WATER DETENTION SYSTEM DETAIL
NOT TO SCALE



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
BRICK/SOLID BLOCK ROUND MANHOLES AND CATCH BASINS DEPTH GREATER THAN 12'-0"

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. 1/2" CEMENT MORTAR PLASTER COAT REQUIRED ON ALL INSIDE AND OUTSIDE SURFACES.
3. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

NO.	BY	DATE

JUNE 15, 1998
R.I. STANDARD 3.7.0

COMMONWEALTH ENGINEERS & CONSULTANTS, INC.
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Drawn: JP
Checked:
Scale: AS NOTED
Key Plan: Scale: 1"=2,000'

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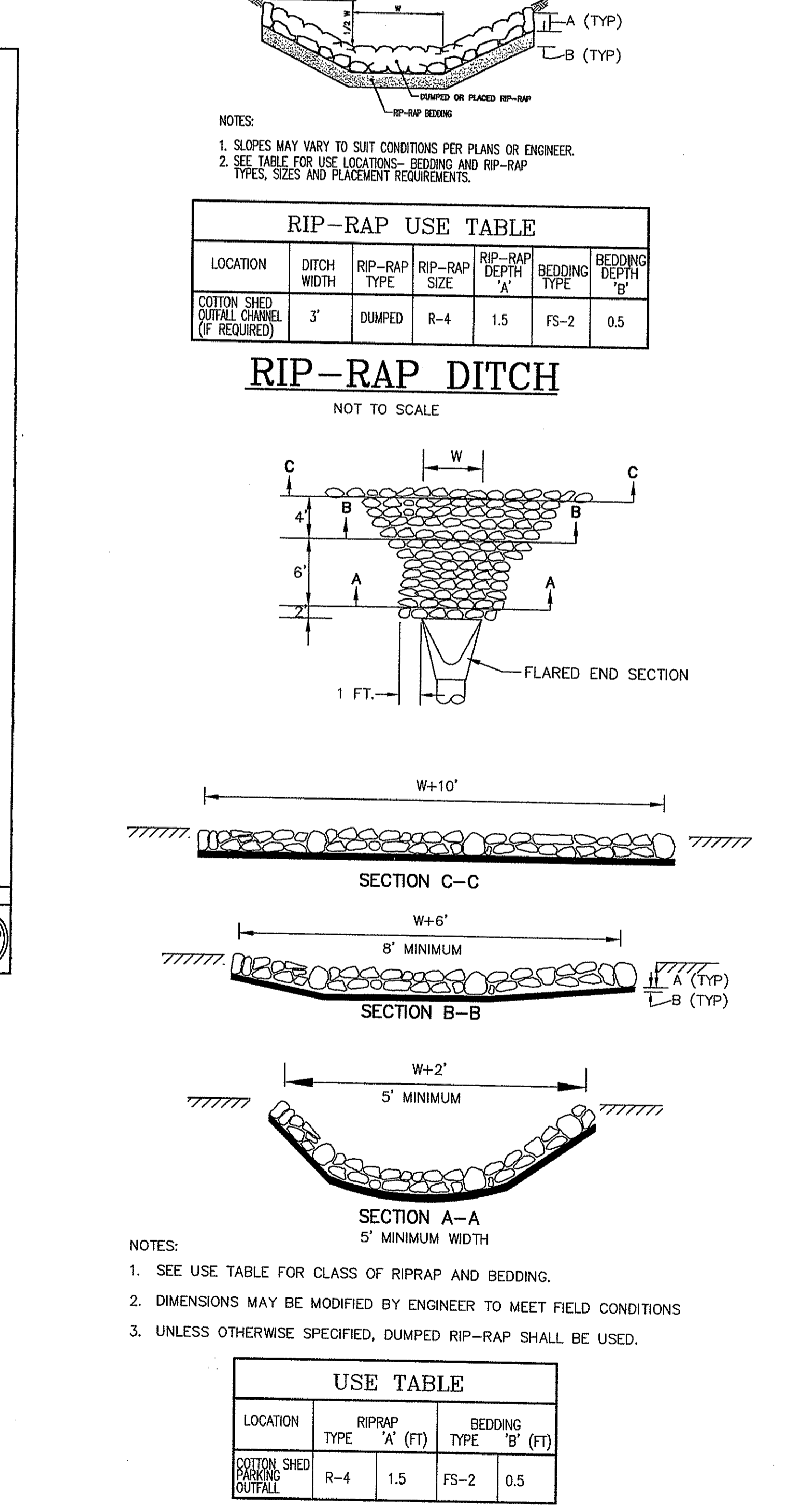
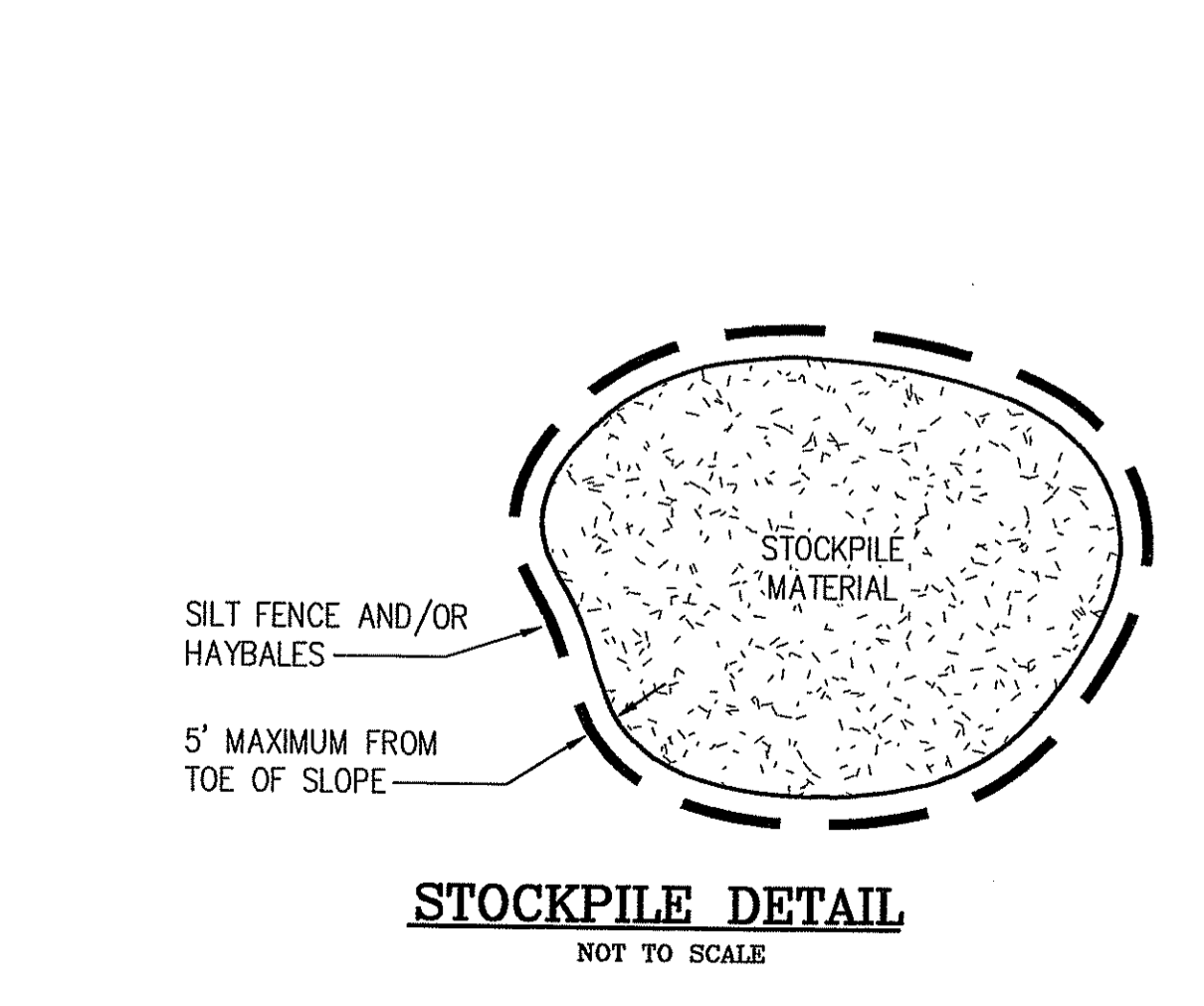
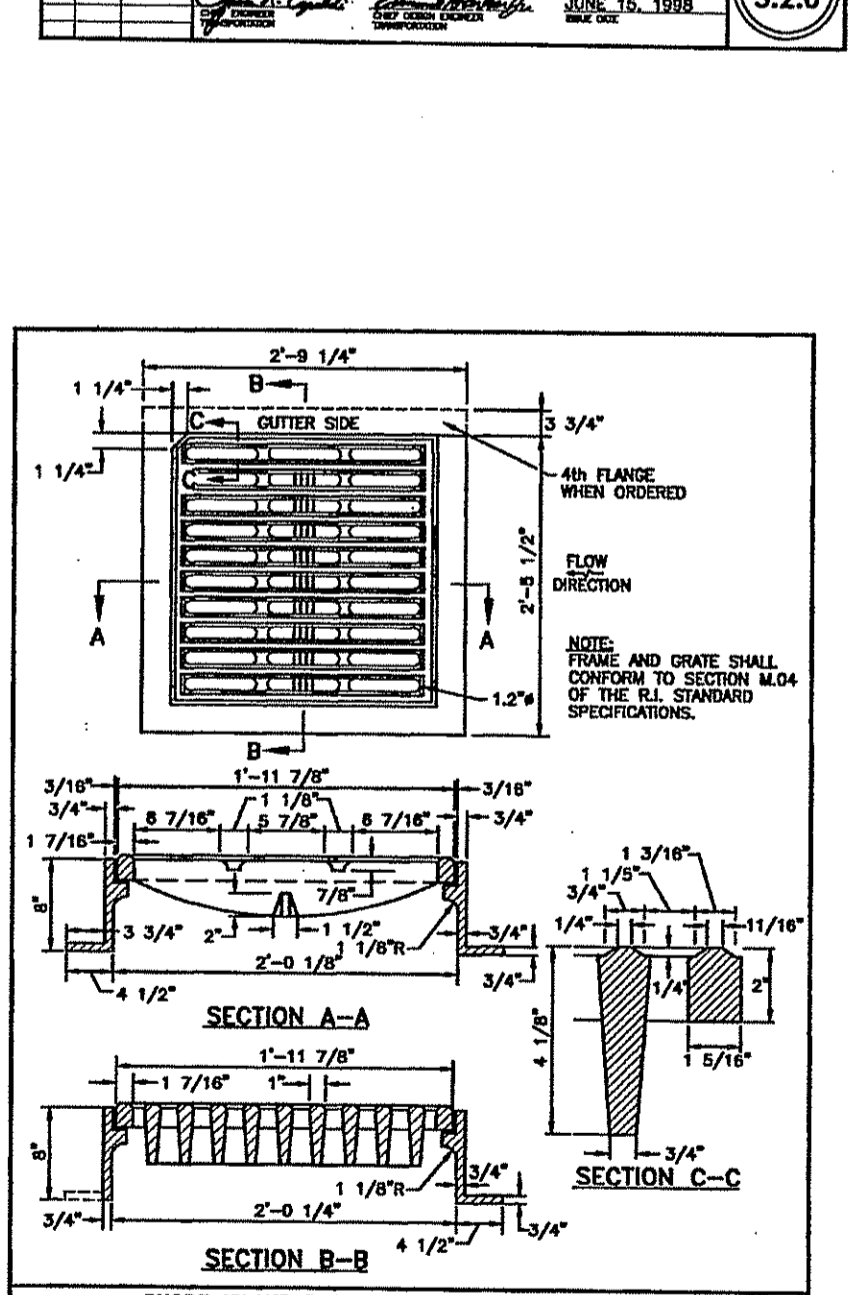
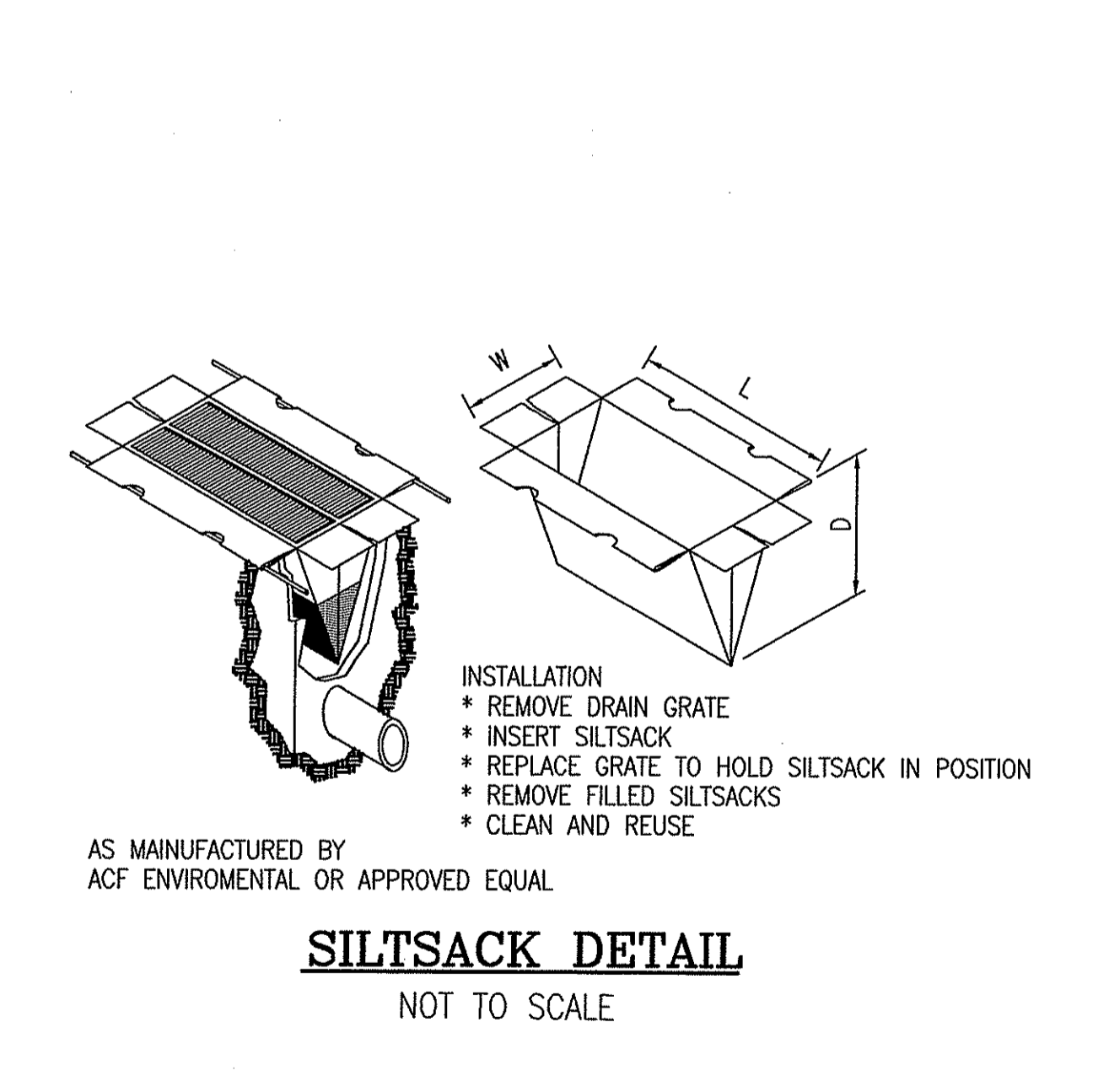
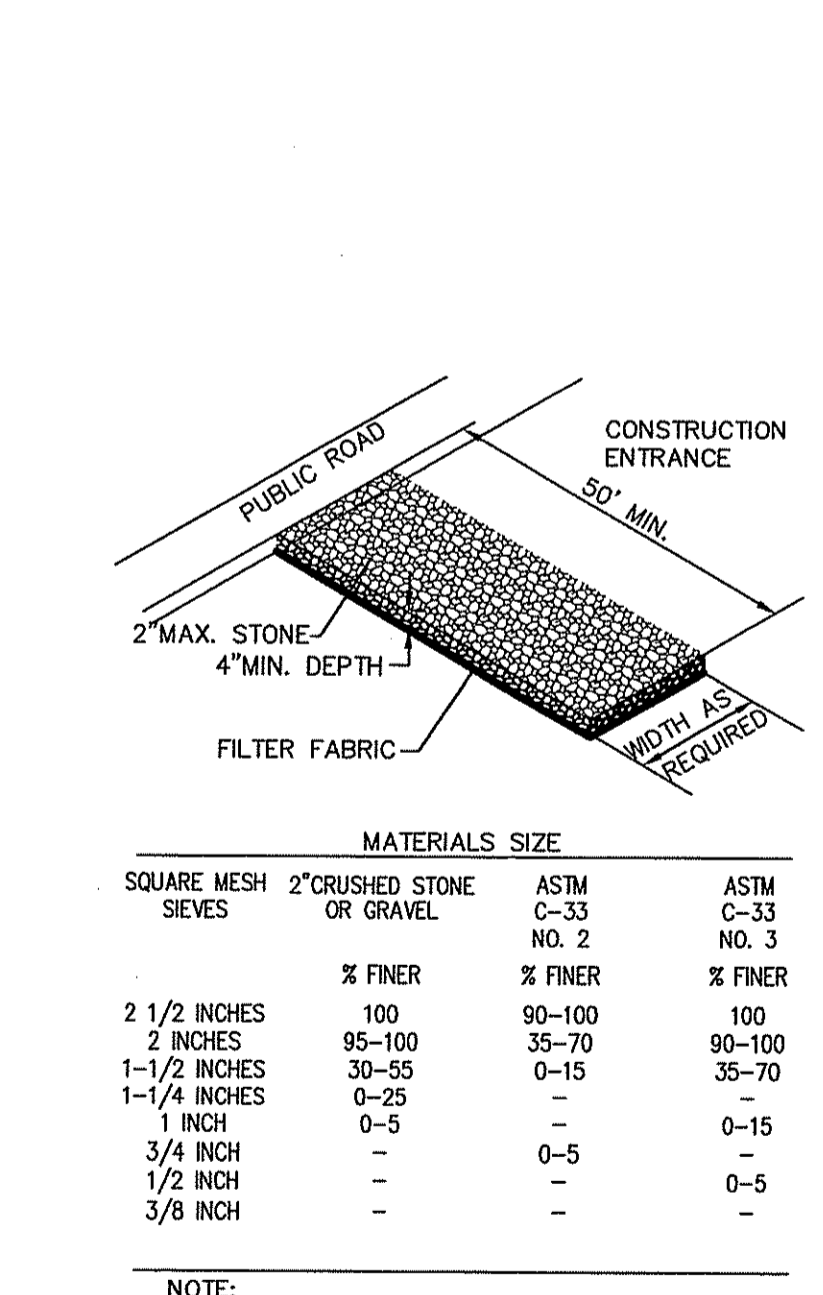
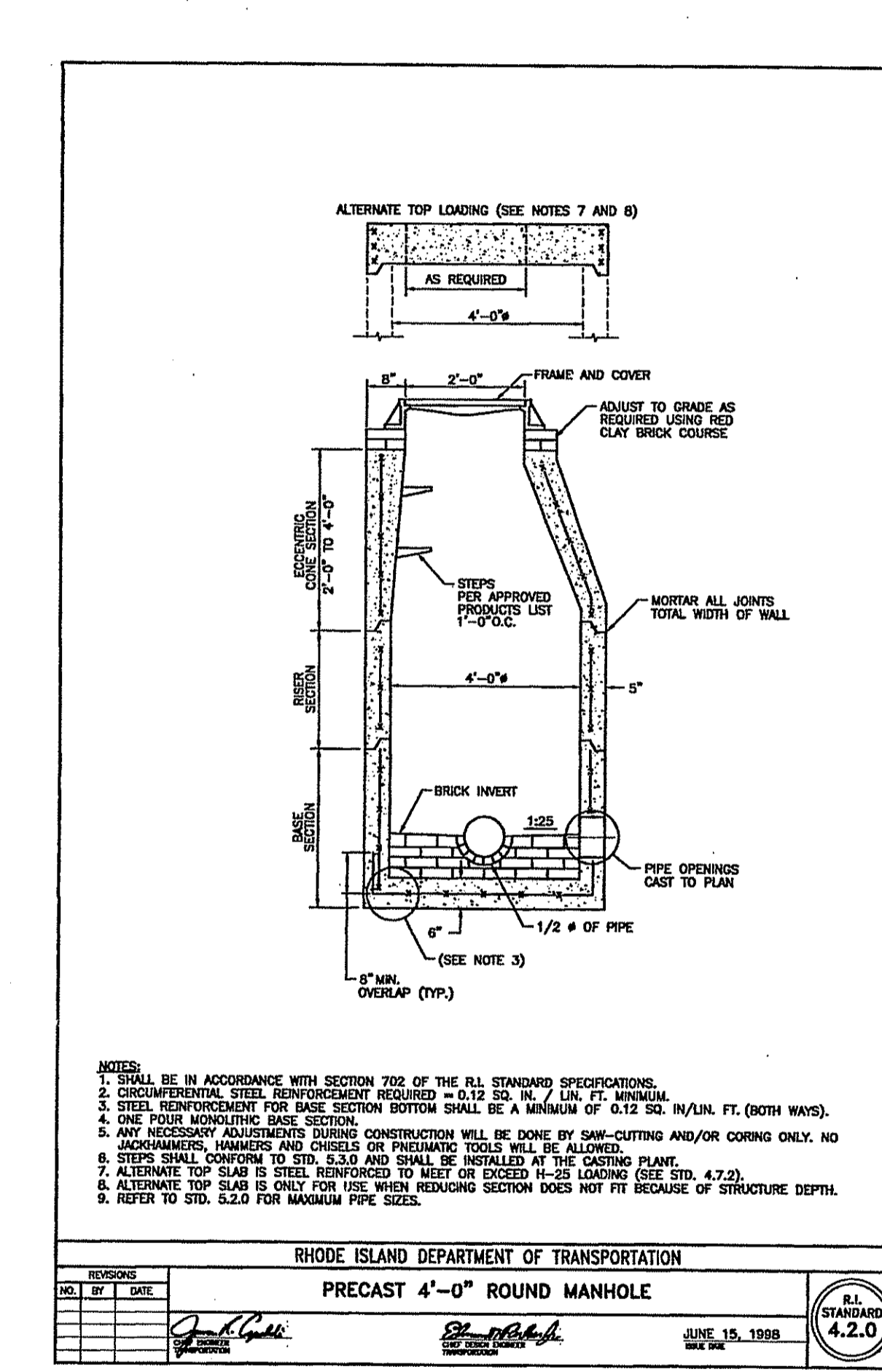
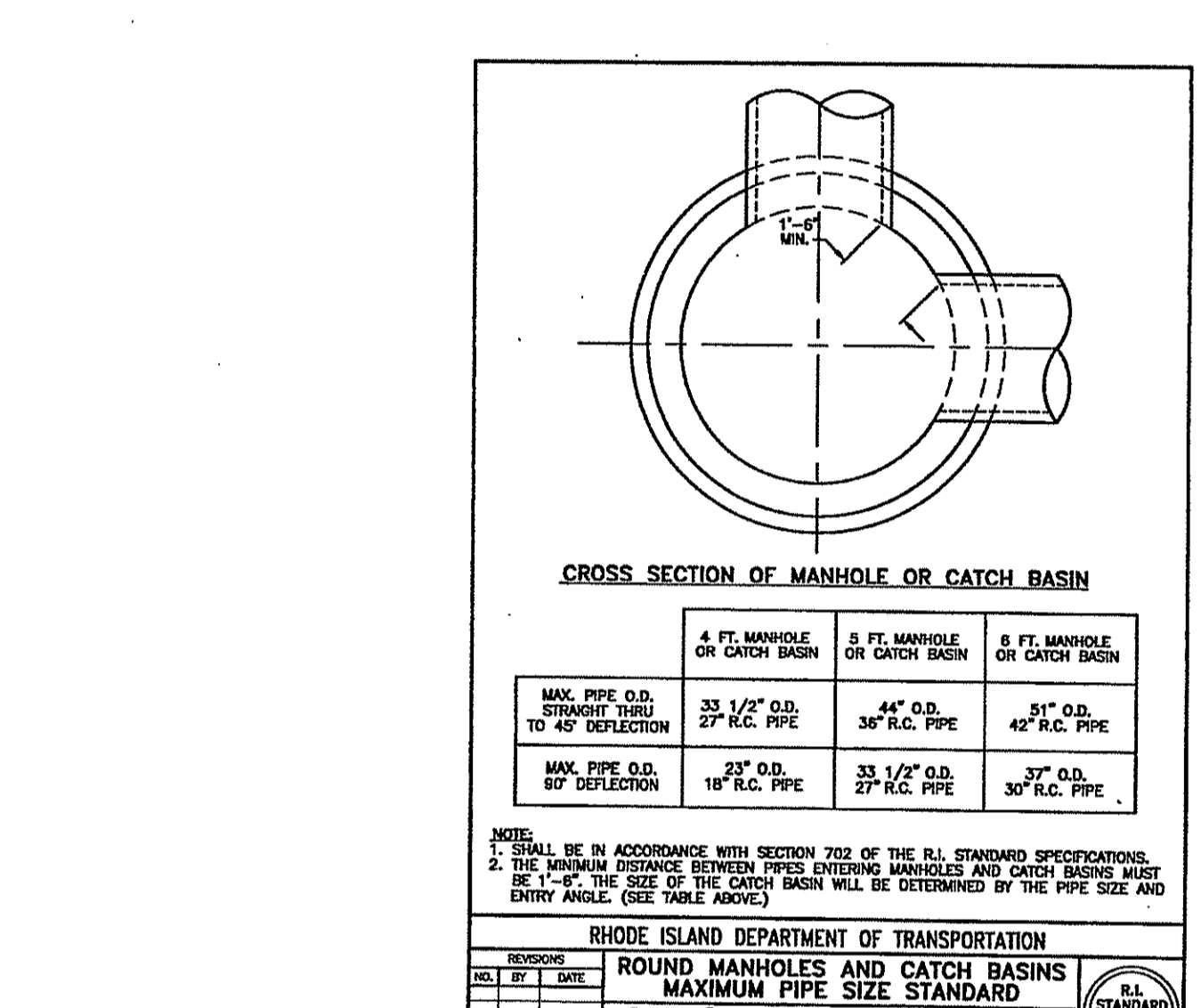
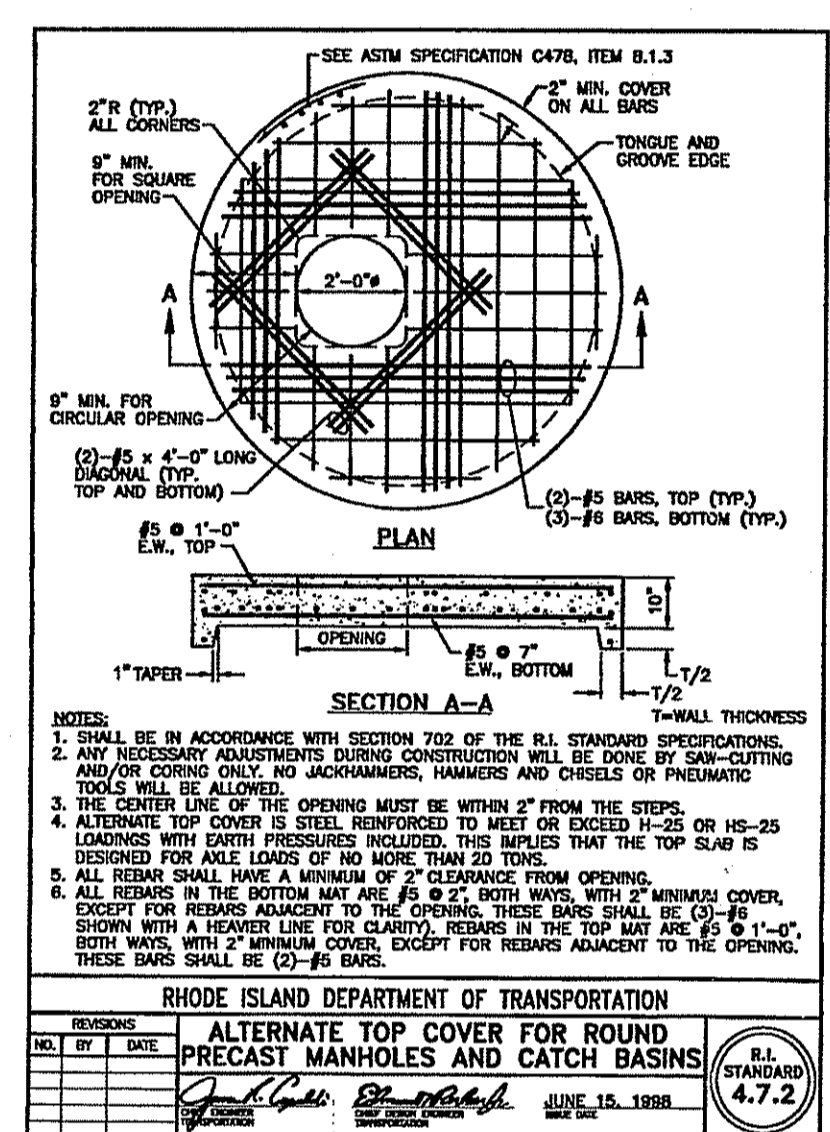
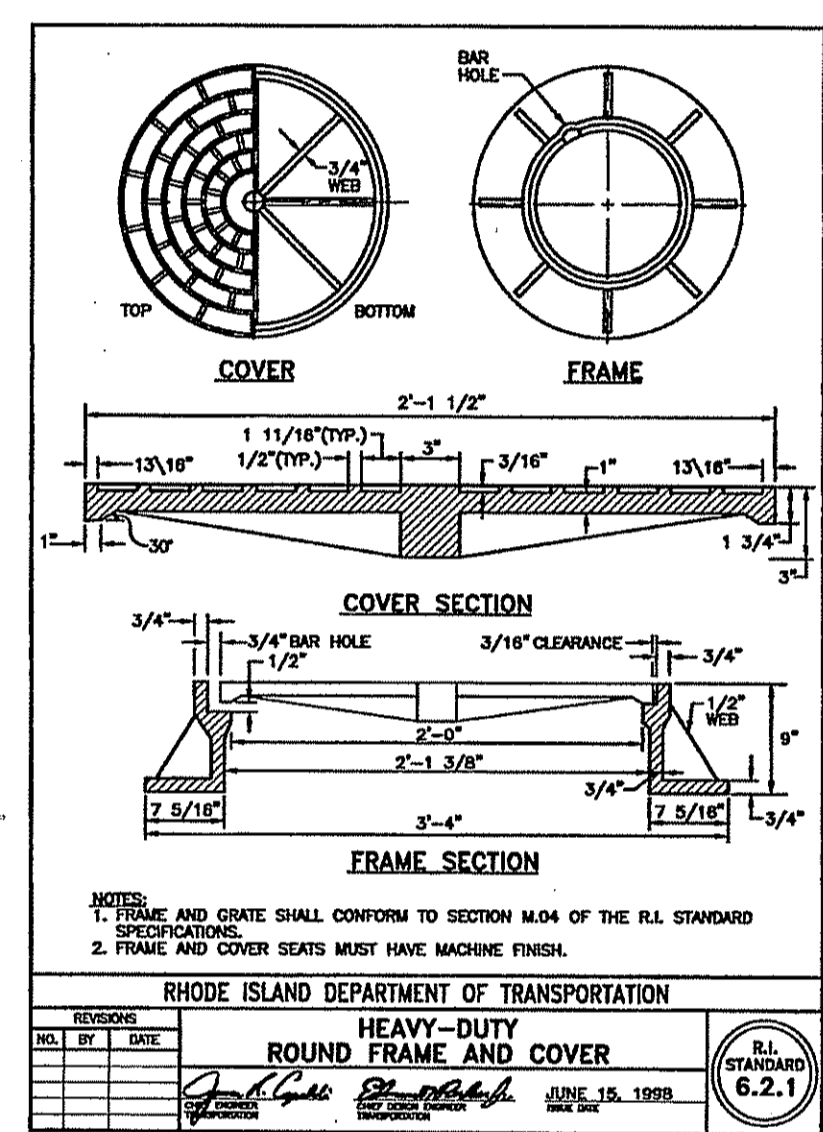
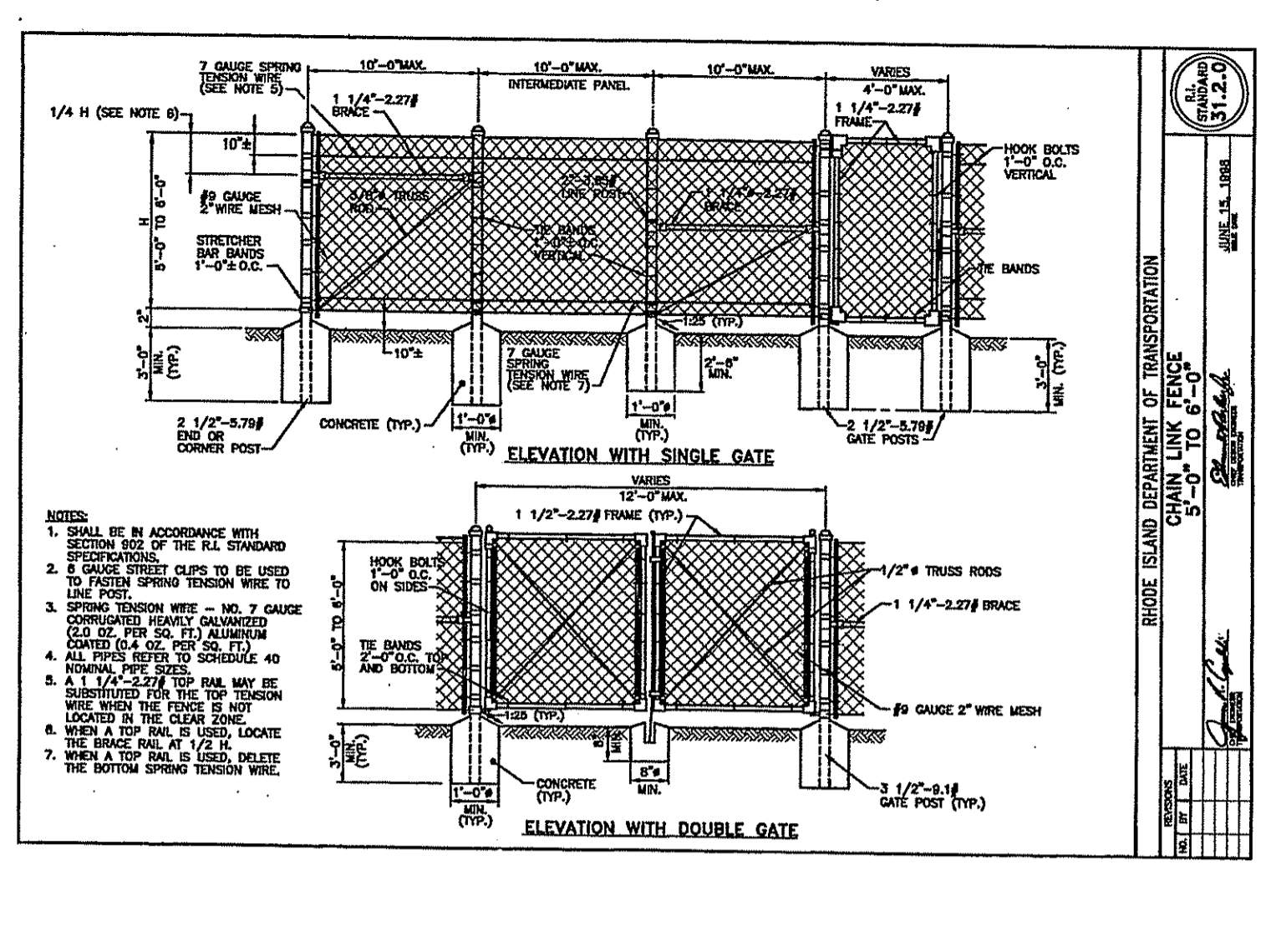
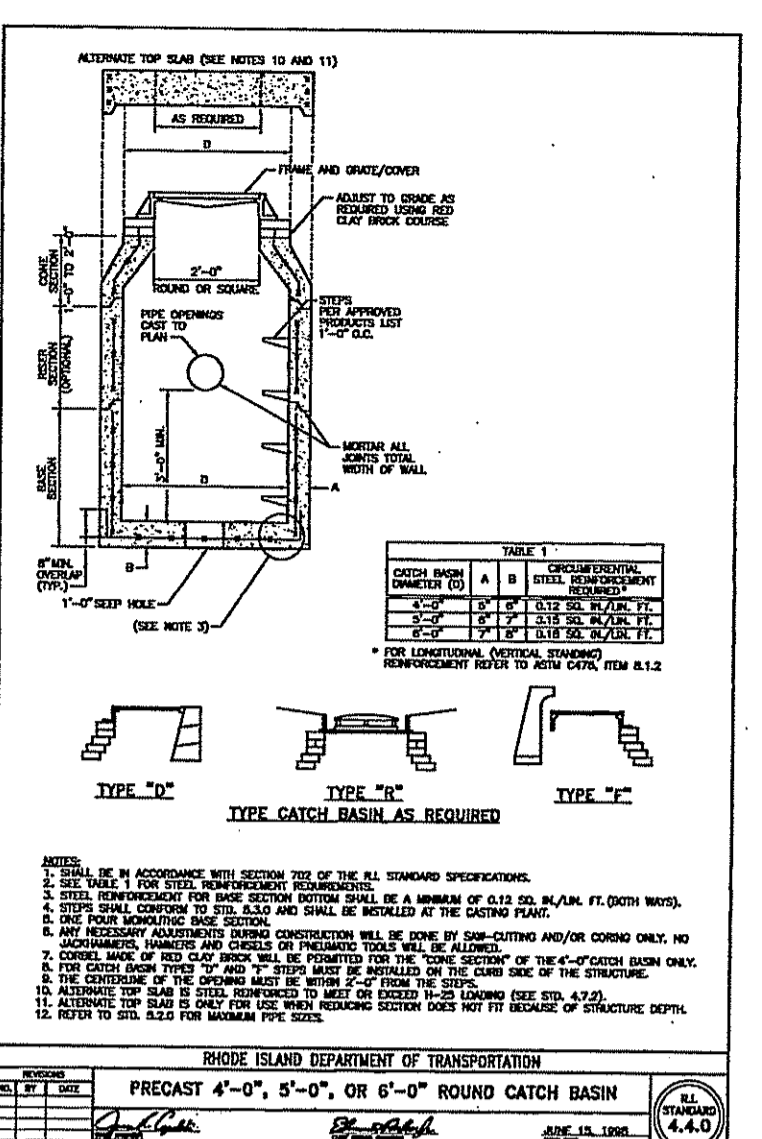
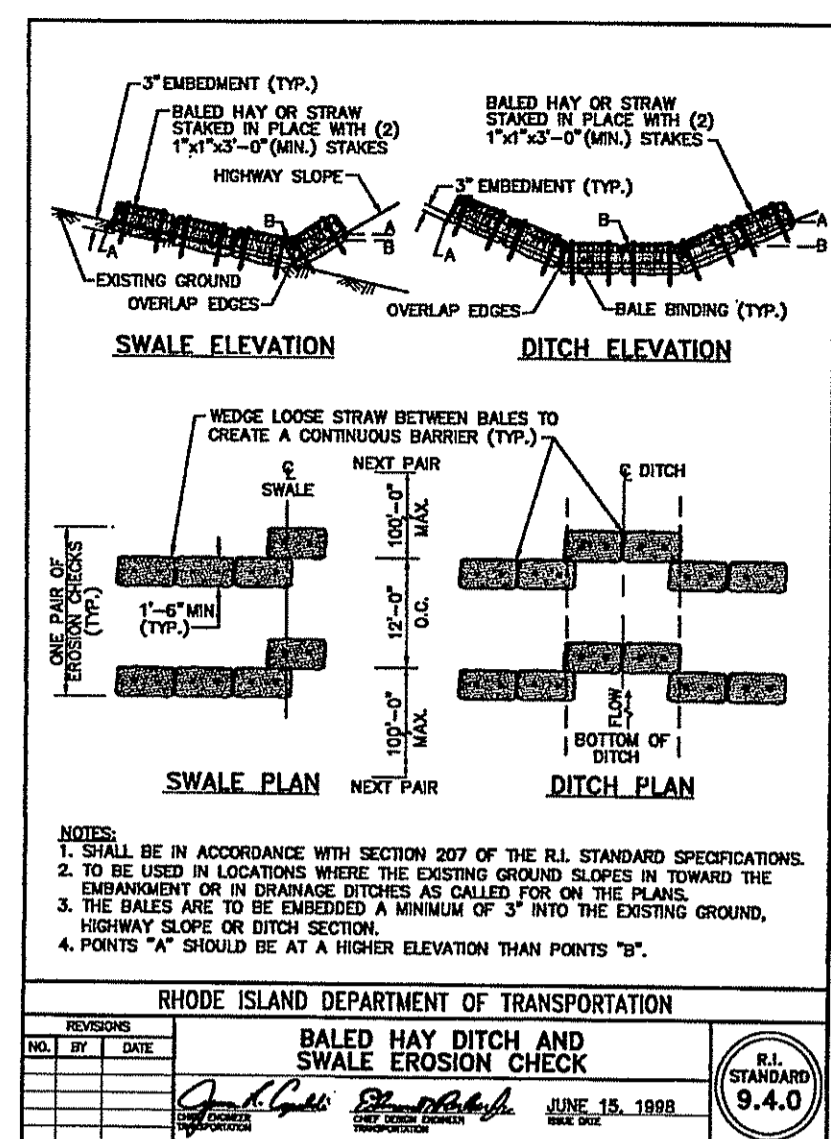
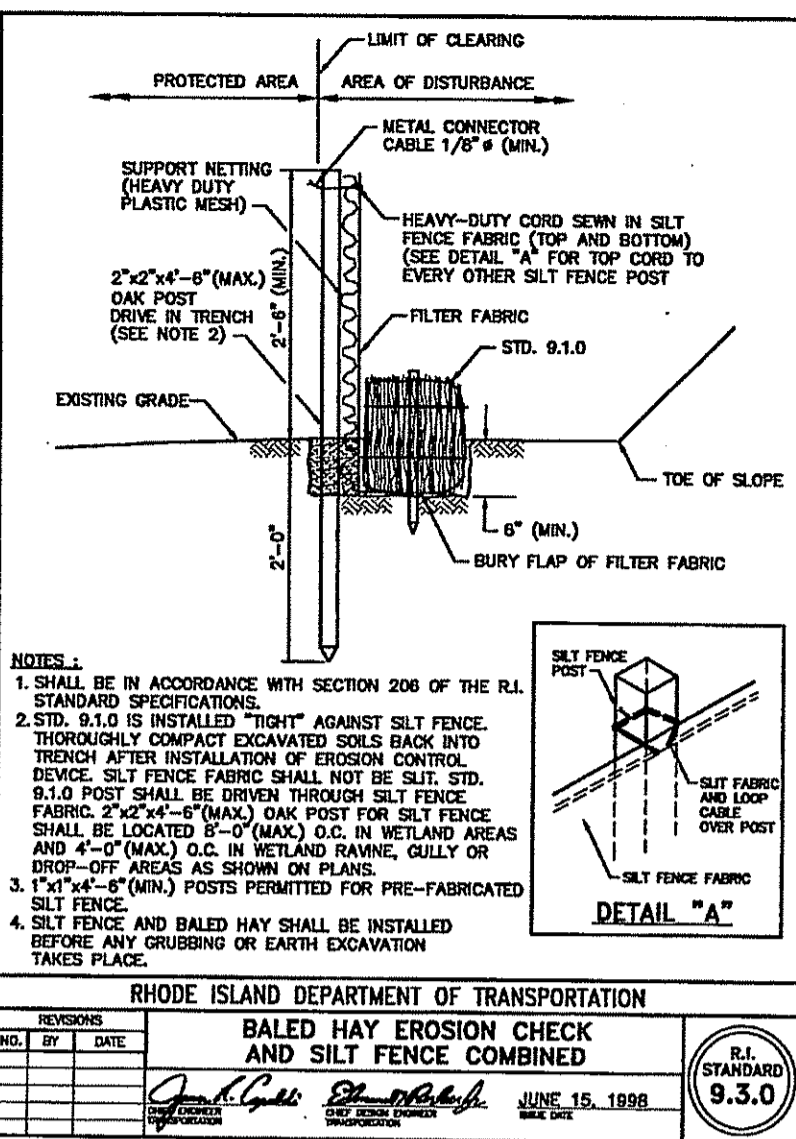
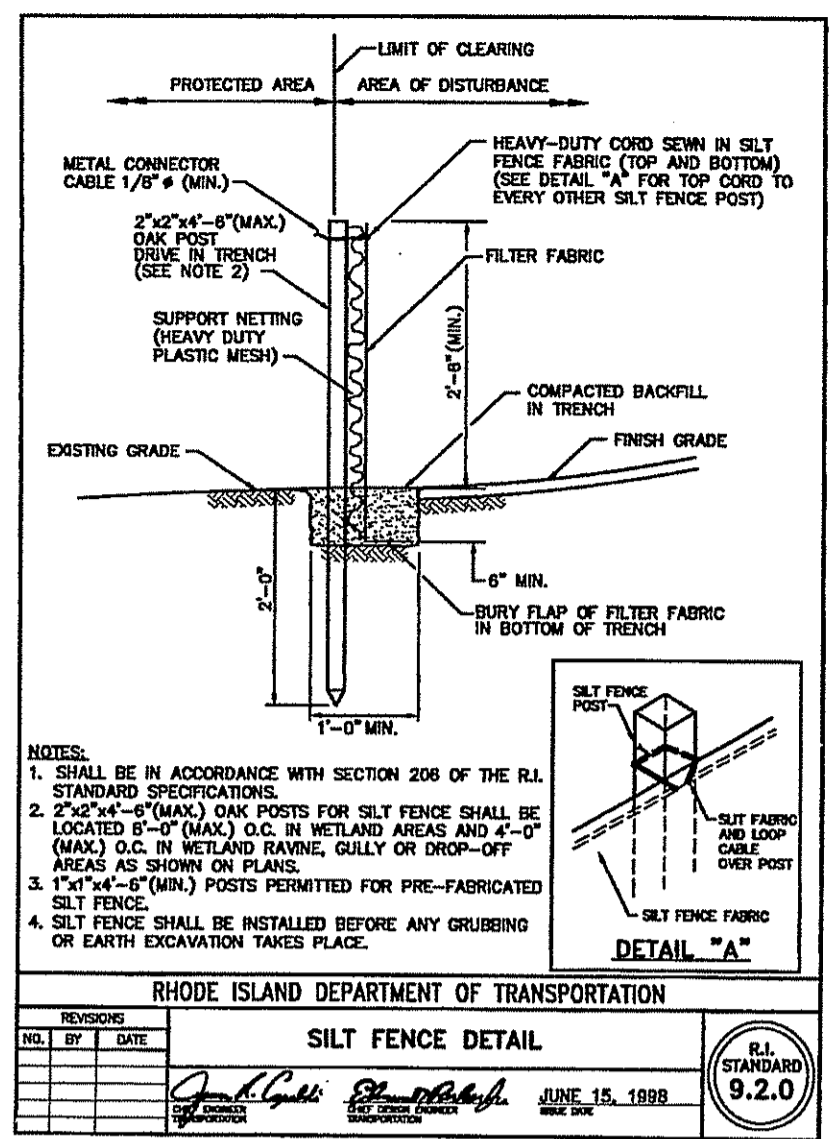
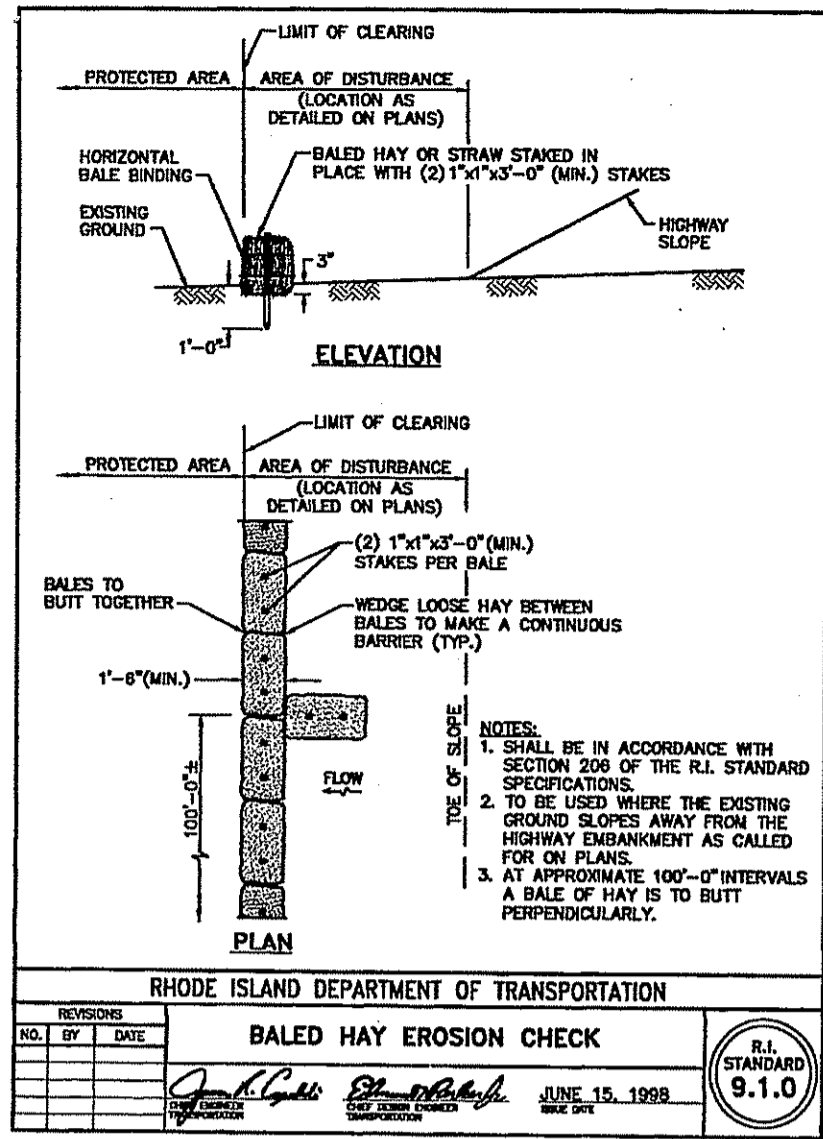
Project Name:
THE COTTON SHED
West Warwick, Rhode Island
Sheet Name:

CONSTRUCTION DETAILS

Project No.: 07005.00
OCT 1 2007

Issue Date:
9/26/07

Sheet No.:
SHEET C-7.2



USE TABLE

LOCATION	RIPRAP TYPE 'A' (FT)	BEDDING TYPE 'B' (FT)
COTTON SHED PARKING OUTFALL	R-4	FS-2 0.5

COMMONWEALTH ENGINEERS & CONSULTANTS, INC.
 400 SMITH STREET
 PROVIDENCE, RI 02908
 PHONE: (401) 273-6600

Steven M. Clarke
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Drawn: JP

Checked:

Scale: AS NOTED

Key Plans: **Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.**

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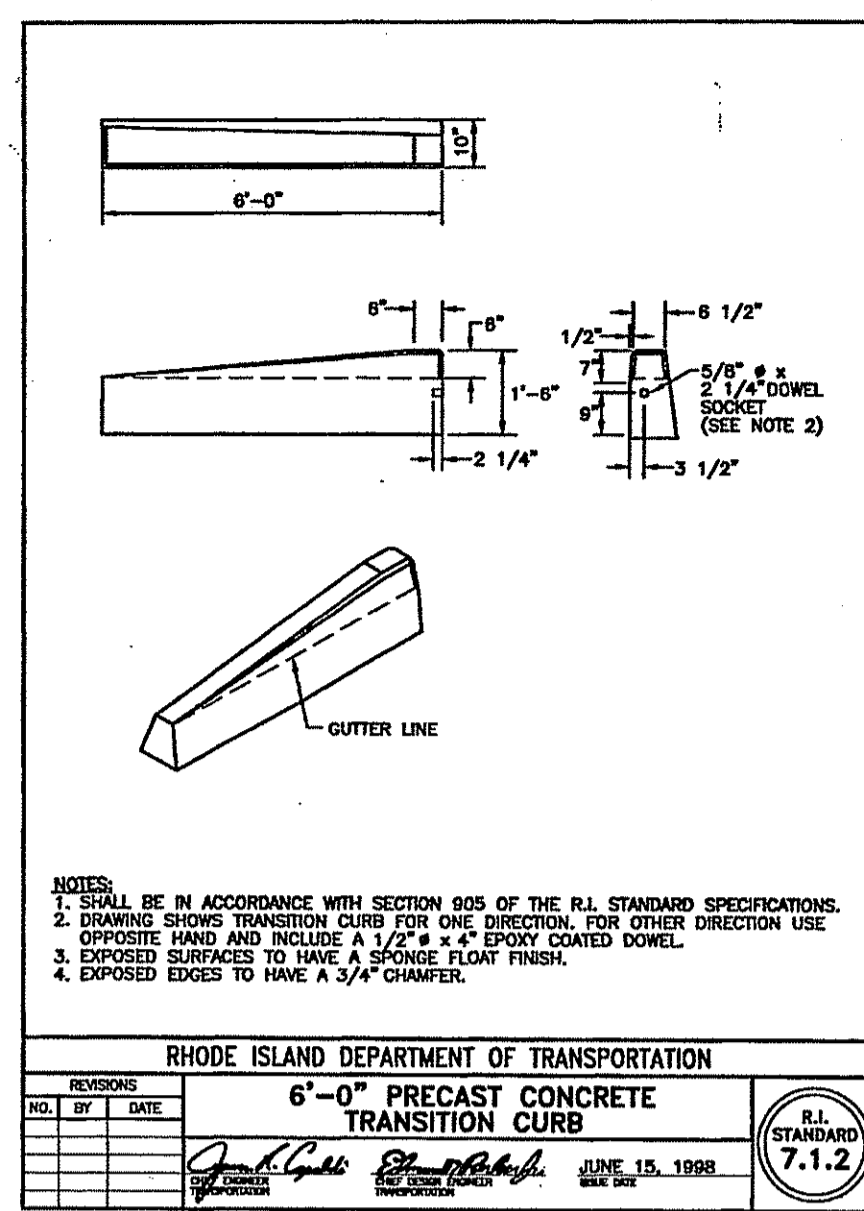
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 West Warwick, Rhode Island

Sheet Name:

Project No.: OCT 1 2007
07005.00

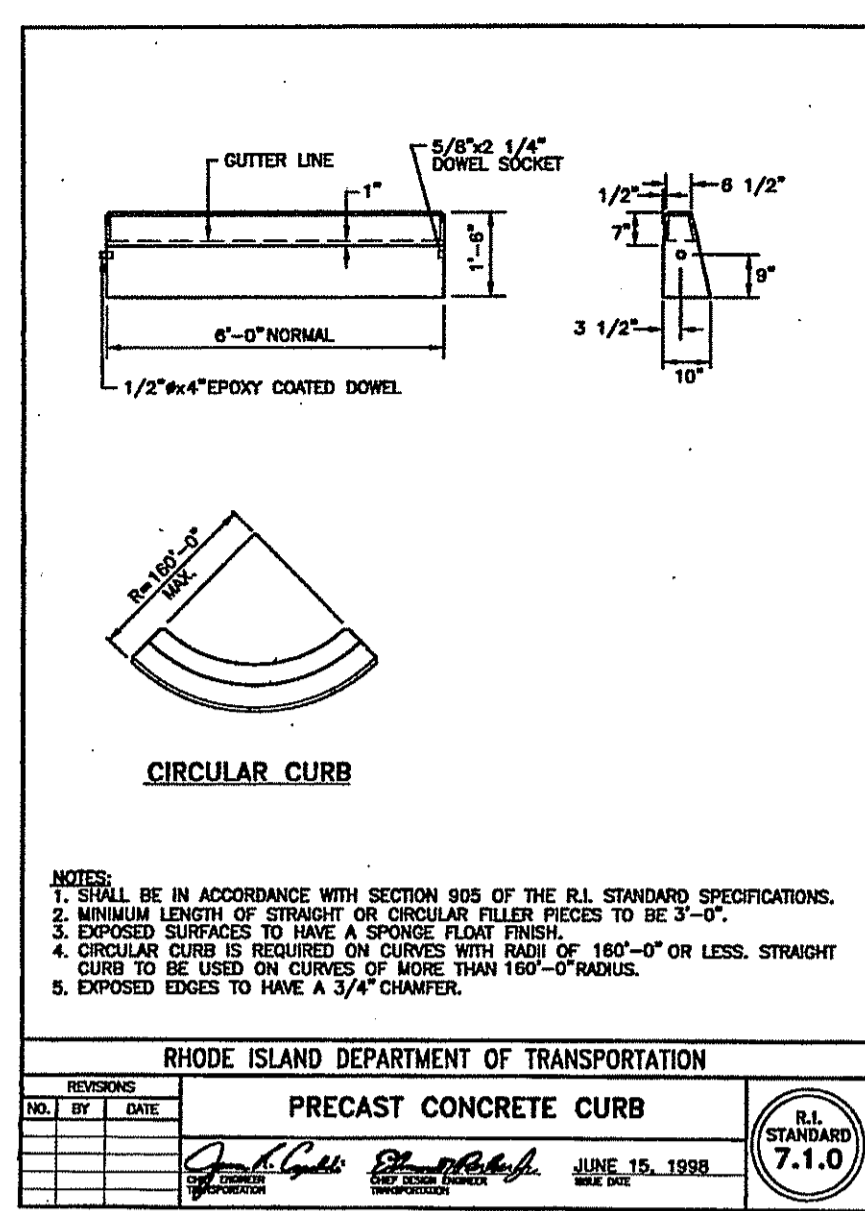
Issue Date: **9/26/07**

Sheet No.: **SHEET C-7.3**



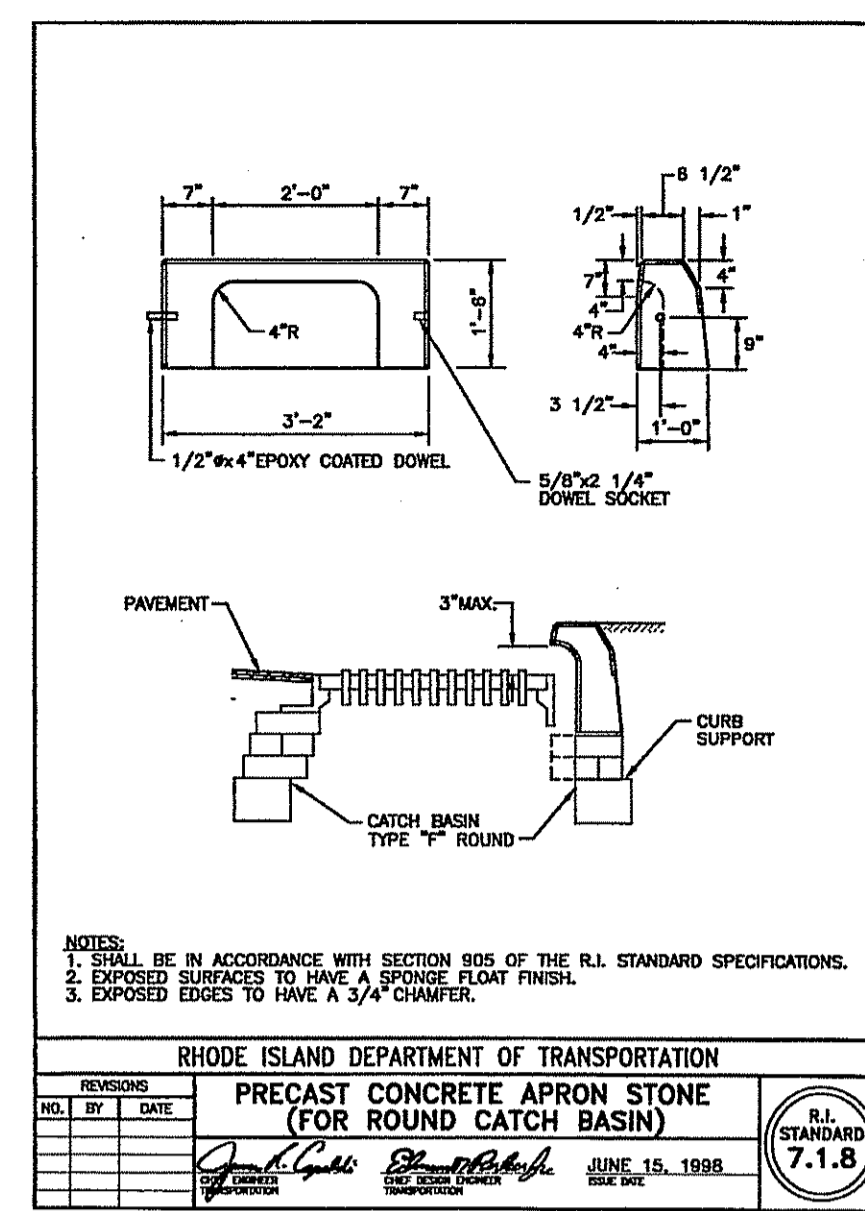
NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 2. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
 3. EXPOSED EDGES TO HAVE A 3/4\"/>

RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
6-0\"/>	
NO. BY DATE	DATE
1. J. L. [Signature] 6/15/1998	7.1.2



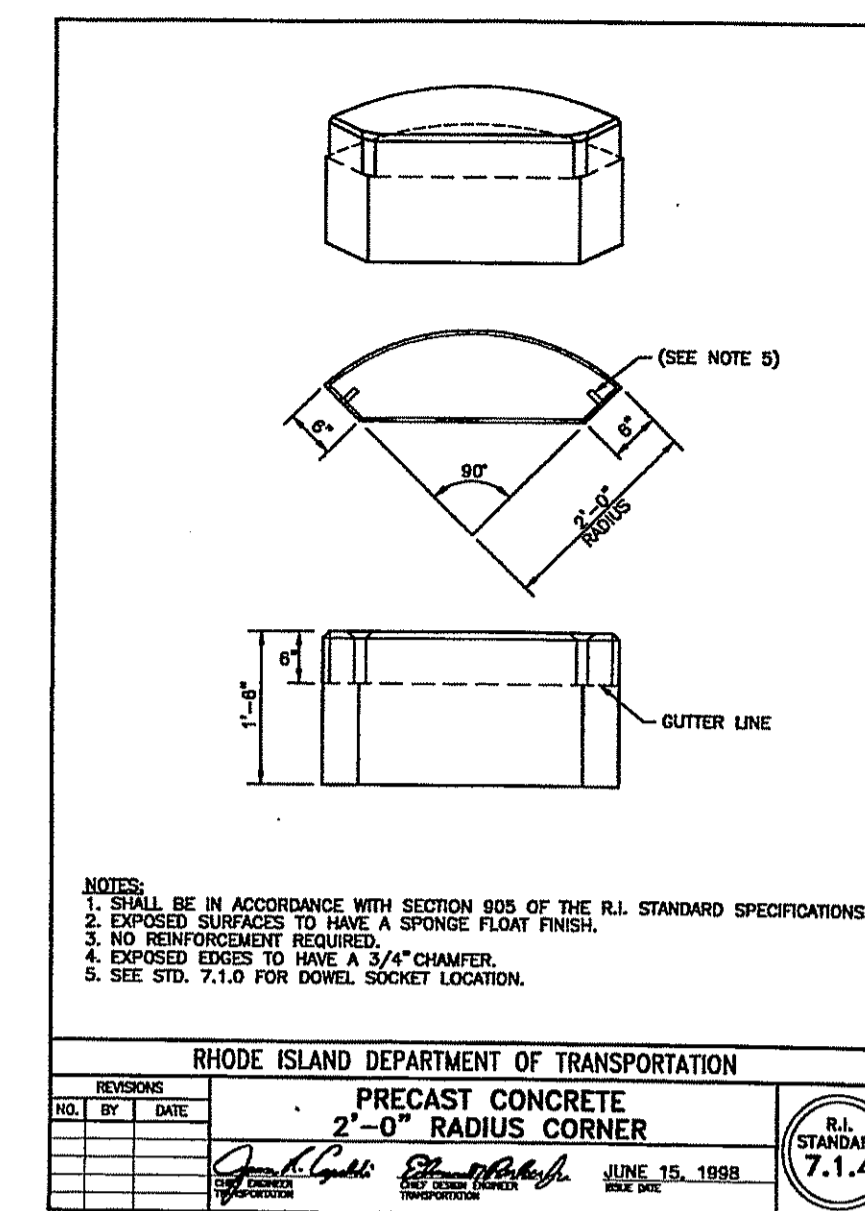
NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 2. MINIMUM LENGTH OF STRAIGHT OR CURVED PIECES TO BE 3-0\"/>

RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
Circular Curb	
NO. BY DATE	DATE
1. J. L. [Signature] 6/15/1998	7.1.0



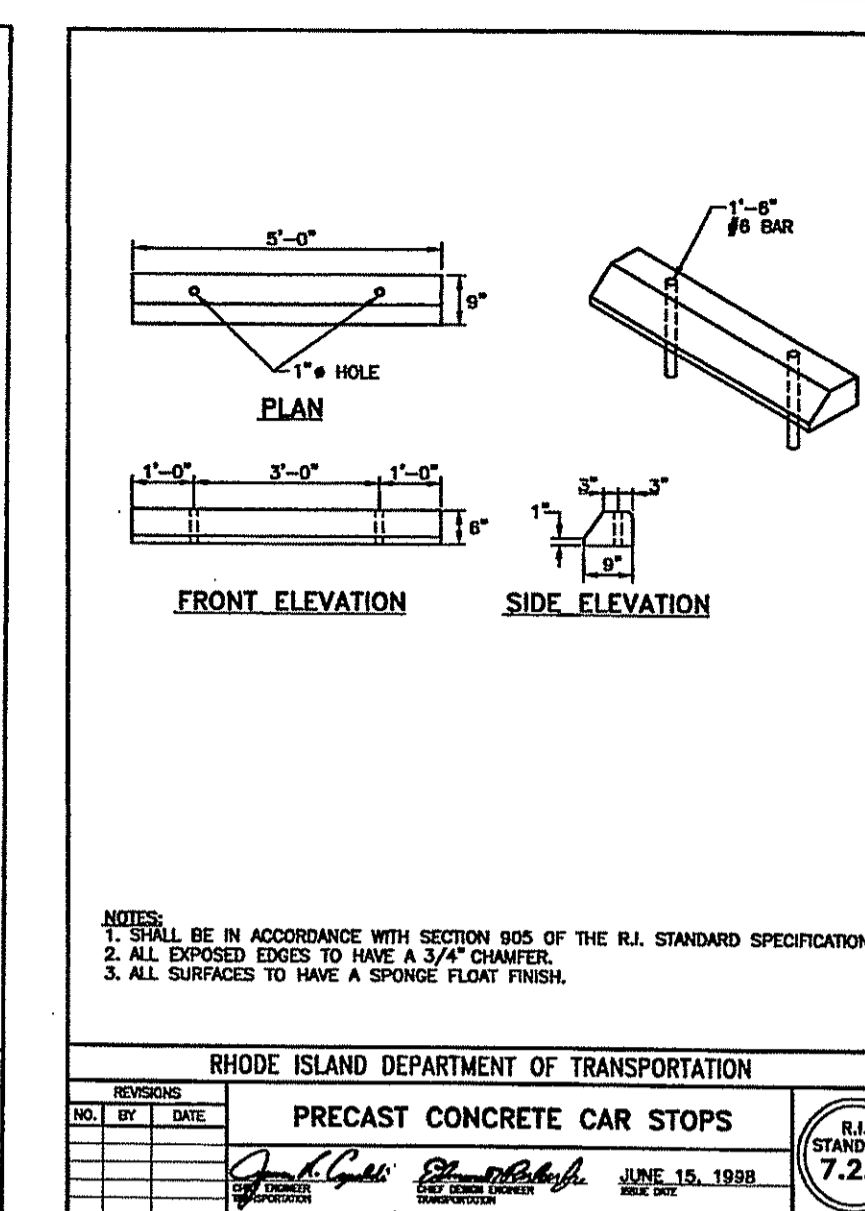
NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 2. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
 3. EXPOSED EDGES TO HAVE A 3/4\"/>

RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
Precast Concrete Apron Stone (for round catch basin)	
NO. BY DATE	DATE
1. J. L. [Signature] 6/15/1998	7.1.8



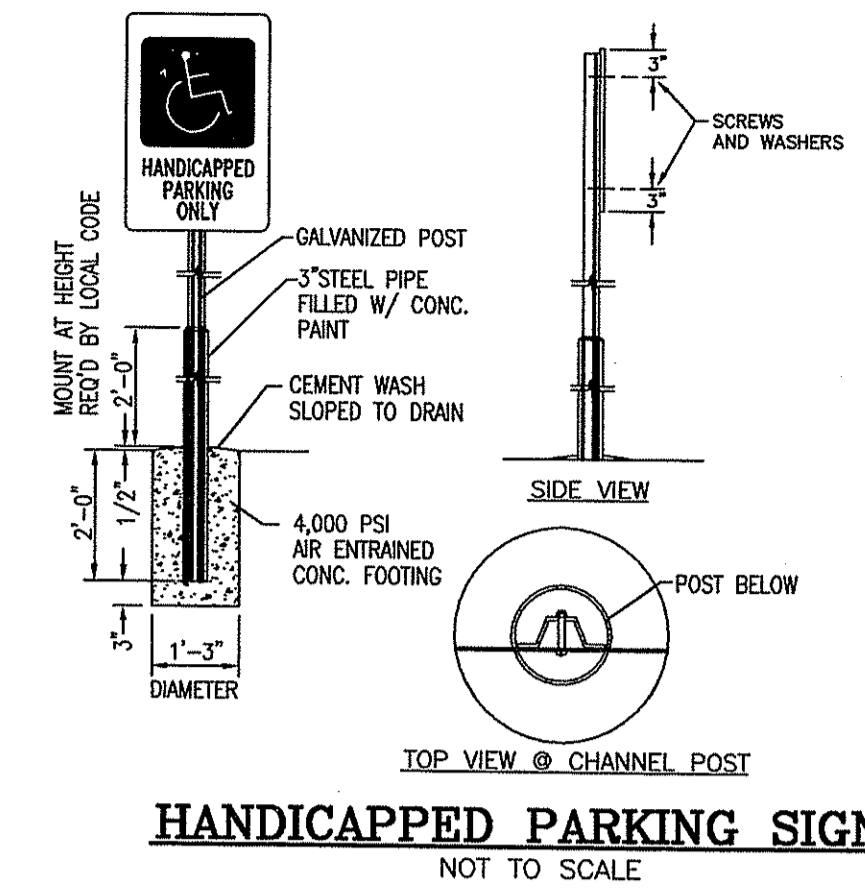
NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 2. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
 3. EXPOSED EDGES TO HAVE A 3/4\"/>

RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
Precast Concrete 2-0\"/>	
NO. BY DATE	DATE
1. J. L. [Signature] 6/15/1998	7.1.4

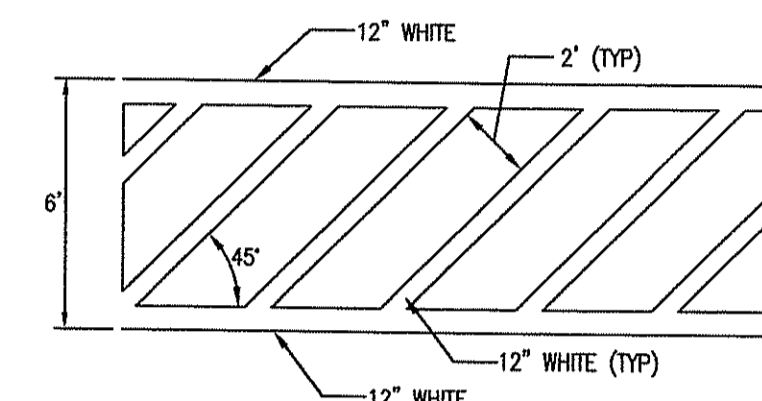


NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 2. ALL EXPOSED EDGES TO HAVE A 3/4\"/>

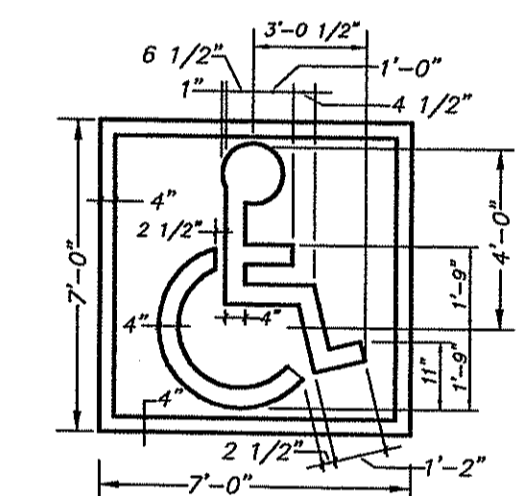
RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
Precast Concrete Car Stops	
NO. BY DATE	DATE
1. J. L. [Signature] 6/15/1998	7.2.4



HANDICAPPED PARKING SIGN
 NOT TO SCALE

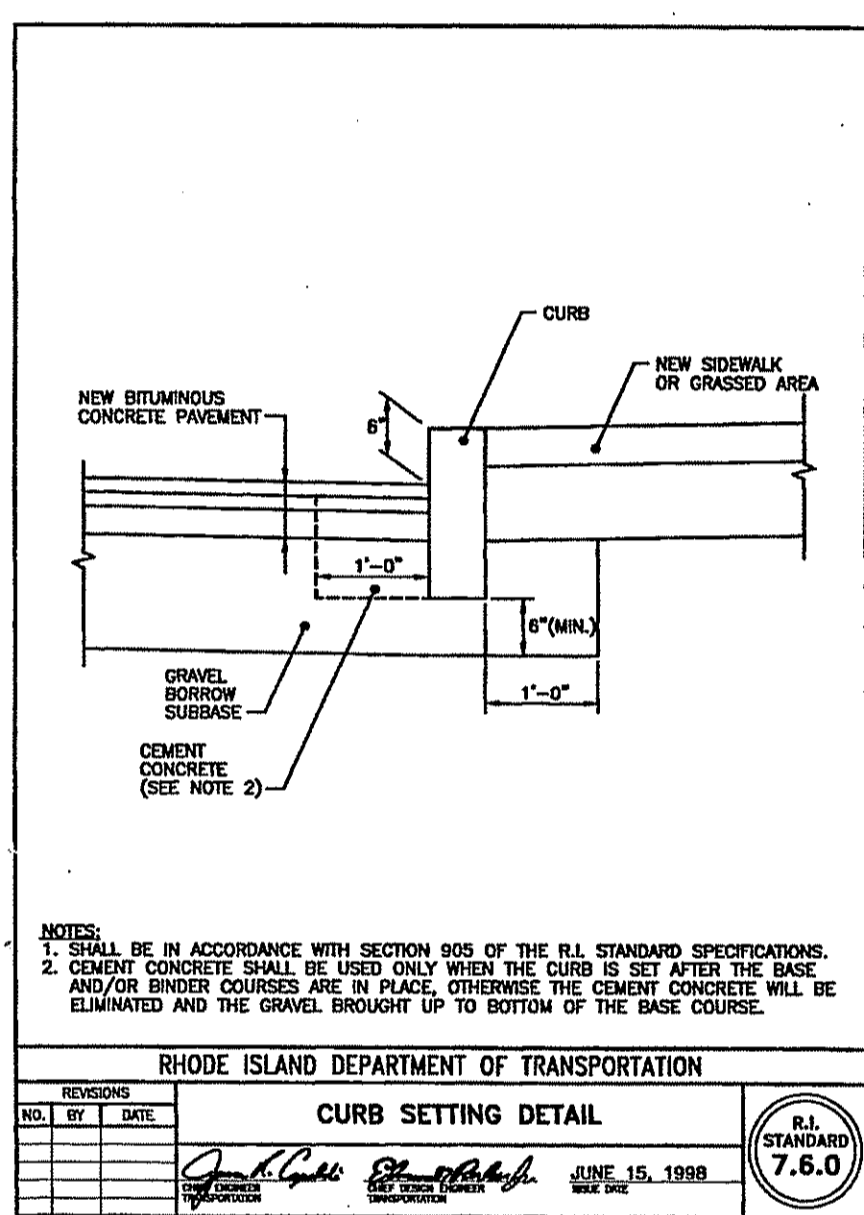


CROSS WALK MARKINGS
 NOT TO SCALE

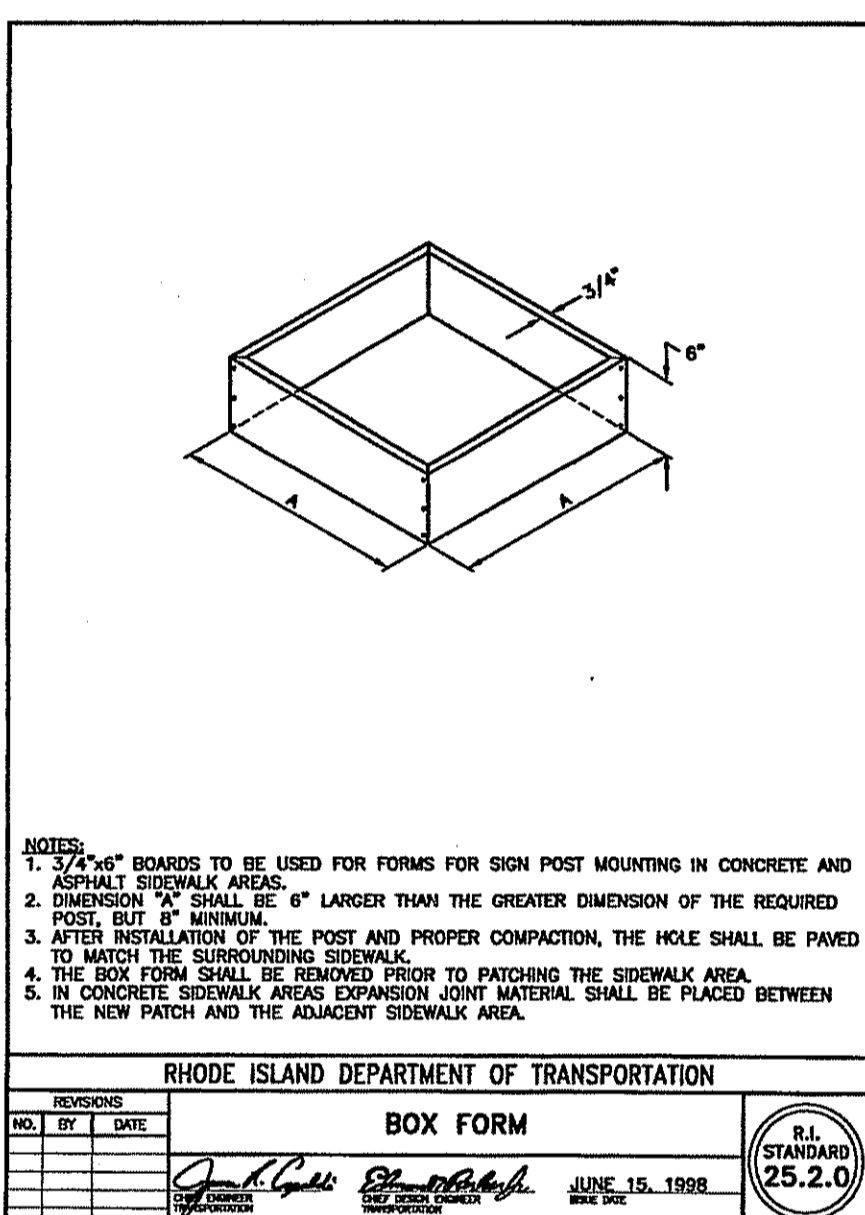


NOTES:
 1. SYMBOL TO BE CENTERED ON WIDTH OF PARKING SPACE.
 2. SYMBOLS ARE REQUIRED TO CONTRAST WITH BACKGROUND. (COLOR NO. 105090 IN FEDERAL STANDARD 595c) DOUBLE COAT. (TYPICAL)

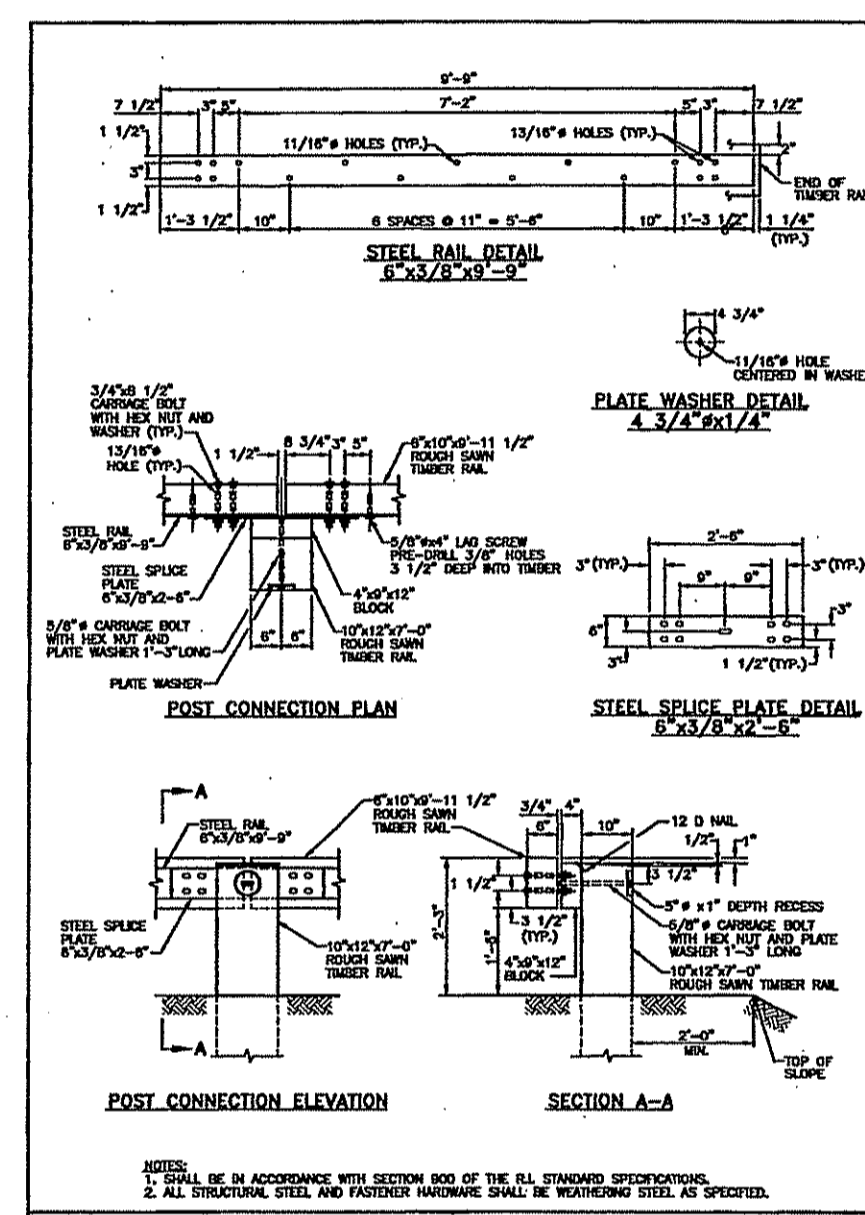
HANDICAPPED PARKING SYMBOL
 NOT TO SCALE



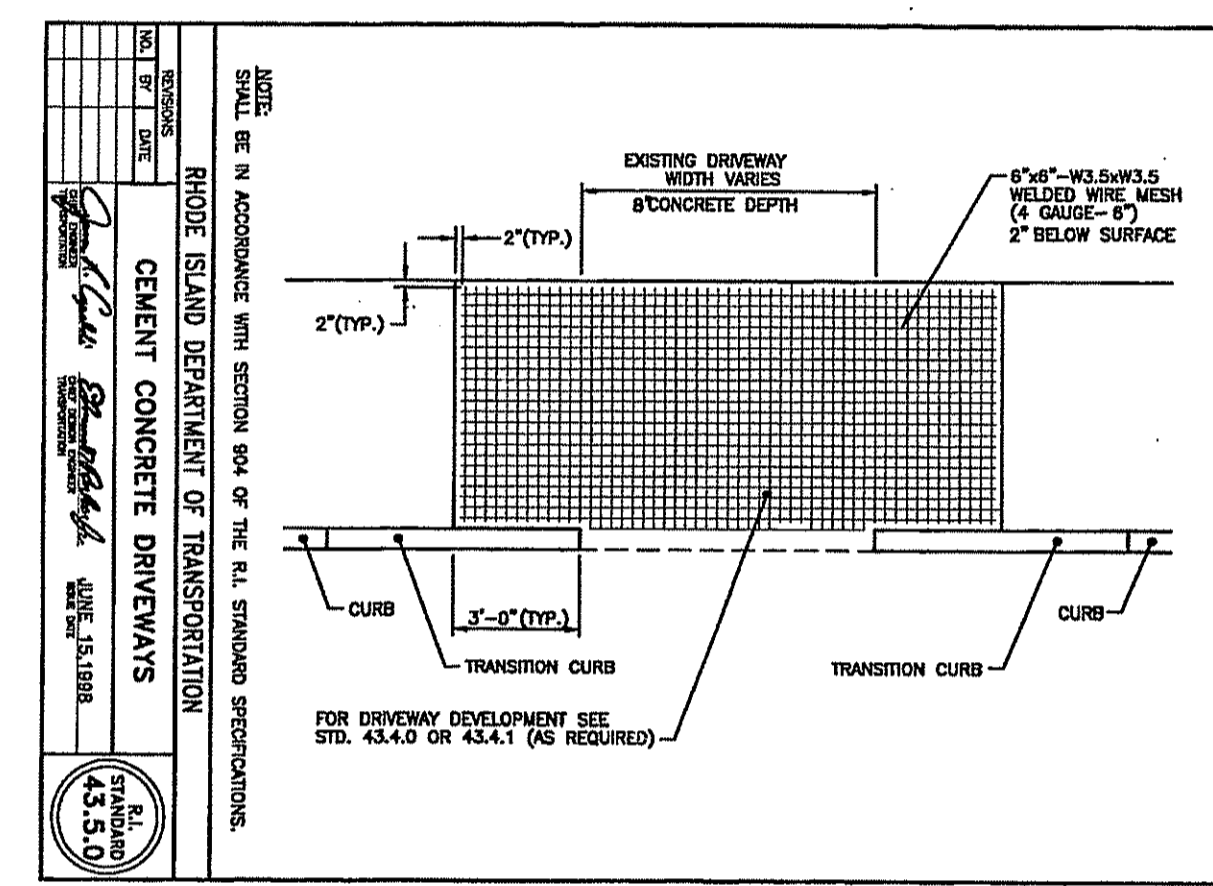
RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
Curb Setting Detail	
NO. BY DATE	DATE
1. J. L. [Signature] 6/15/1998	7.6.0



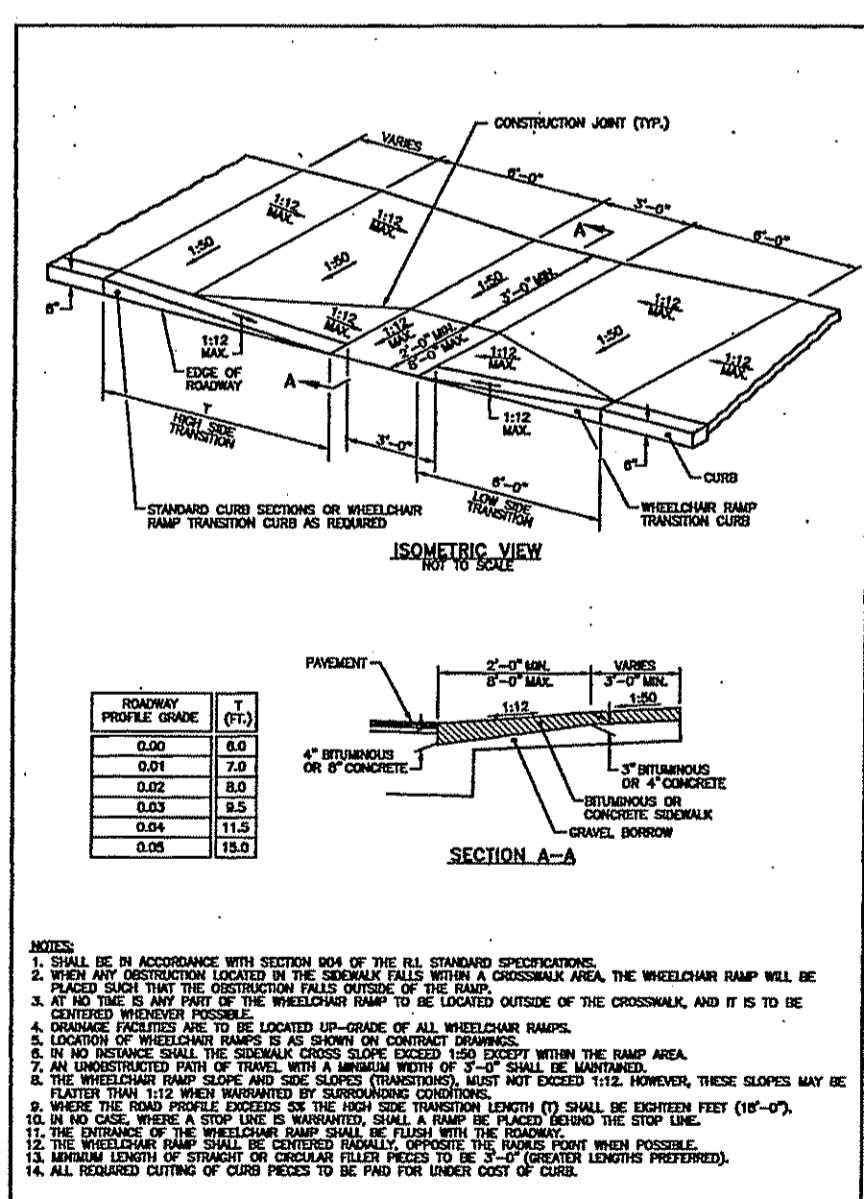
RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
Box Form	
NO. BY DATE	DATE
1. J. L. [Signature] 6/15/1998	7.5.2.1



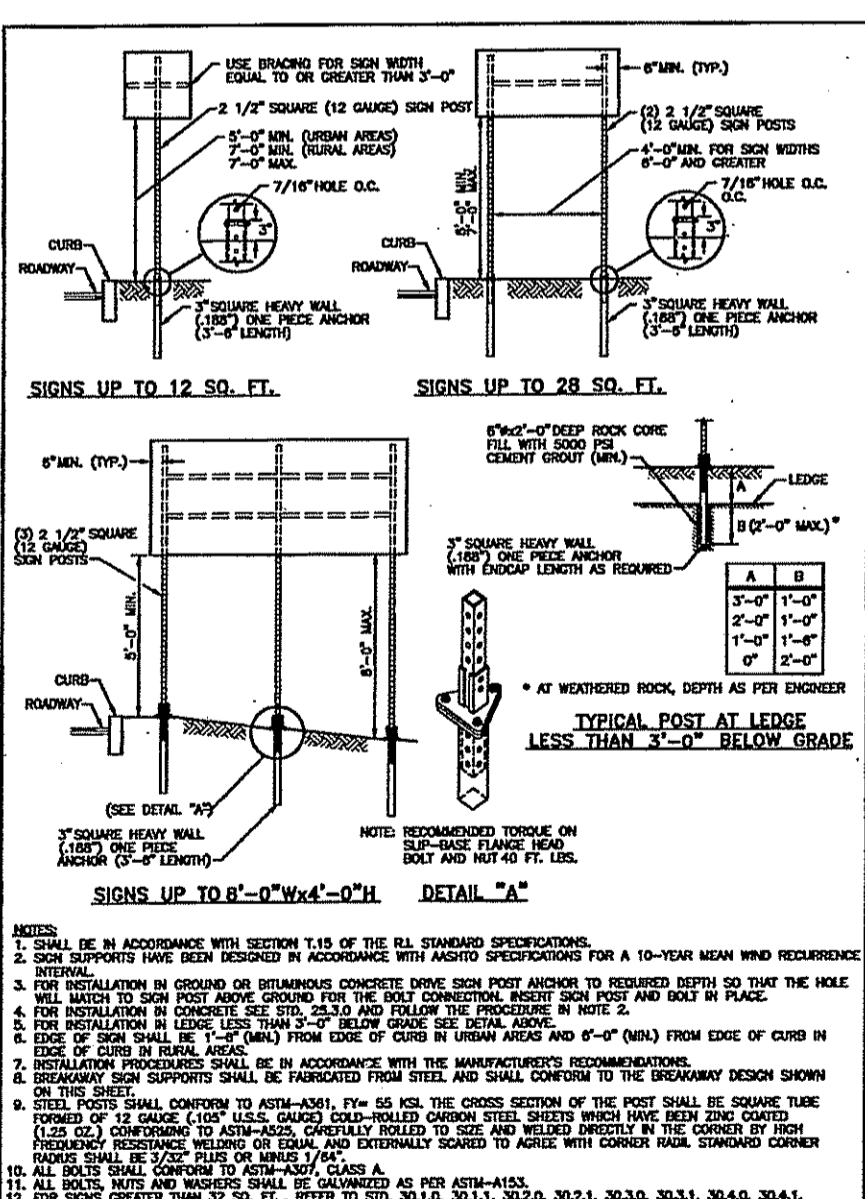
RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
Steel Backed Timber Guardrail	
NO. BY DATE	DATE
1. J. L. [Signature] 6/15/1998	8.4.4



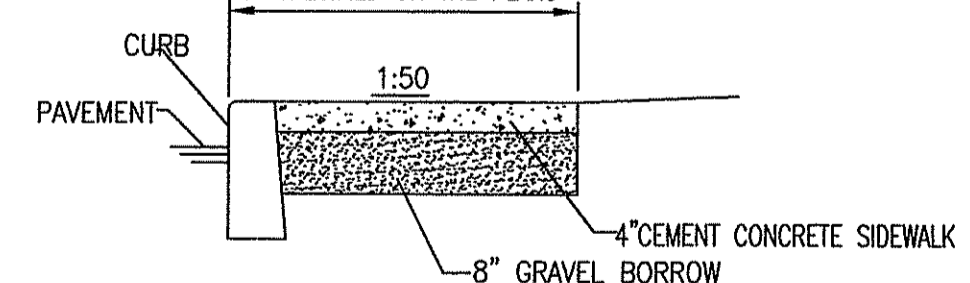
CEMENT CONCRETE DRIVEWAYS
 NOT TO SCALE



RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
Wheelchair Ramp	
NO. BY DATE	DATE
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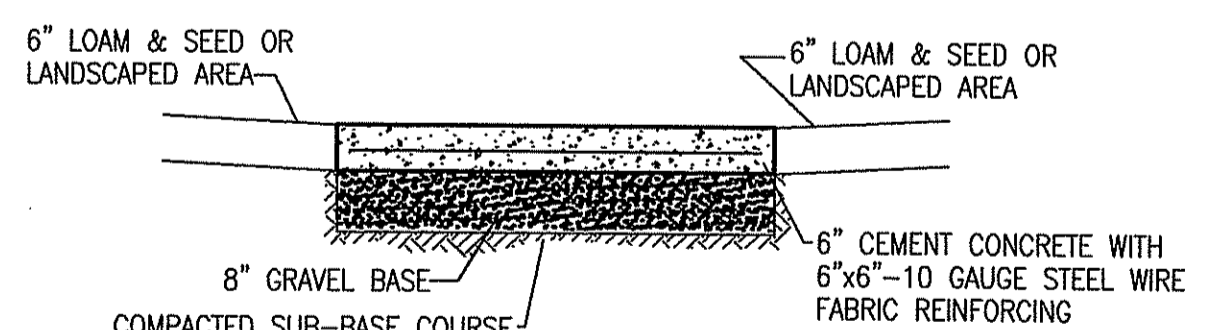


RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
Sign Post Selection and Installation Details	
NO. BY DATE	DATE
1. J. L. [Signature] 6/15/1998	24.1.0



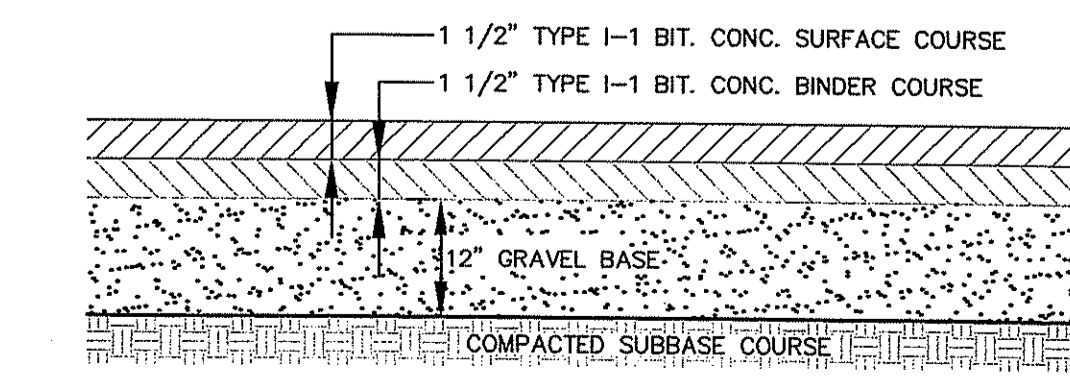
CEMENT CONCRETE SIDEWALK
 NOT TO SCALE

- NOTES:
- CONCRETE SCORING PATTERN TO BE APPROVED BY OWNER.
 - UNLESS SPECIFIED ON PROJECT DRAWINGS, CONTROL JOINTS SHALL OCCUR AT THE SAME DIMENSION AS THE SIDEWALK WIDTH.
 - UNLESS SPECIFIED OTHERWISE, ISOLATION JOINTS SHALL OCCUR AT THE FOLLOWING LOCATIONS:
 - BETWEEN CURB AND WALK
 - INTERSECTION OF WALKS
 - BETWEEN WALK AND BUILDING WALLS
 - BETWEEN WALK AND ALL STRUCTURES, I.E., WALLS AND PLANTERS
 - ON CONTINUOUS WALKS, ISOLATION JOINTS SHALL BE AT A MAXIMUM OF (30') THIRTY FEET APART.
 - CONCRETE WALKS AND DRIVEWAYS SHALL BE IN ACCORDANCE WITH SECTION 904 OF THE R.I. STANDARD SPECIFICATIONS.
 - CONCRETE SHALL BE 5% AIR ENTRAINED, 4000 PSI WITH 3/4\"/>

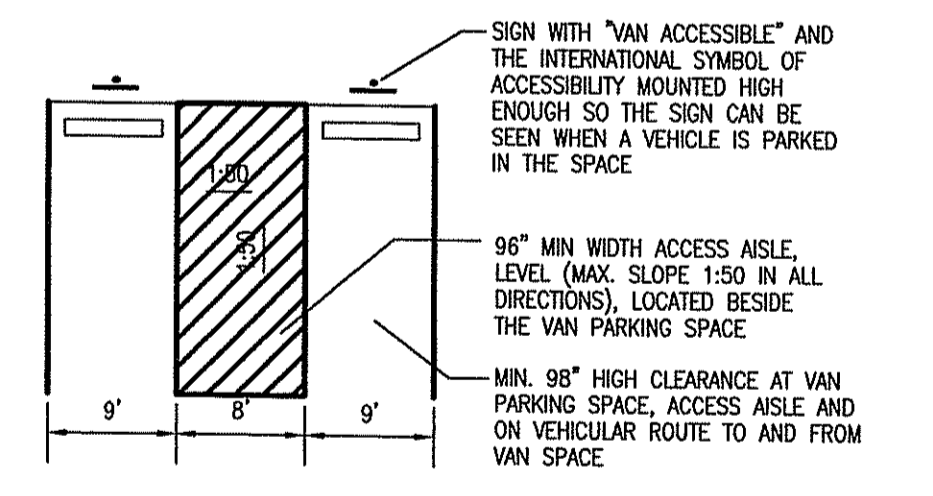


CONCRETE PAD & RAMP DETAIL
 NOT TO SCALE

- NOTES:
- CONCRETE PADS SHALL BE IN ACCORDANCE WITH SECTION 904 OF R.I. STANDARD SPECIFICATION.
 - CONCRETE SHALL BE 5% AIR ENTRAINED, 4000 PSI WITH 3/4\"/>

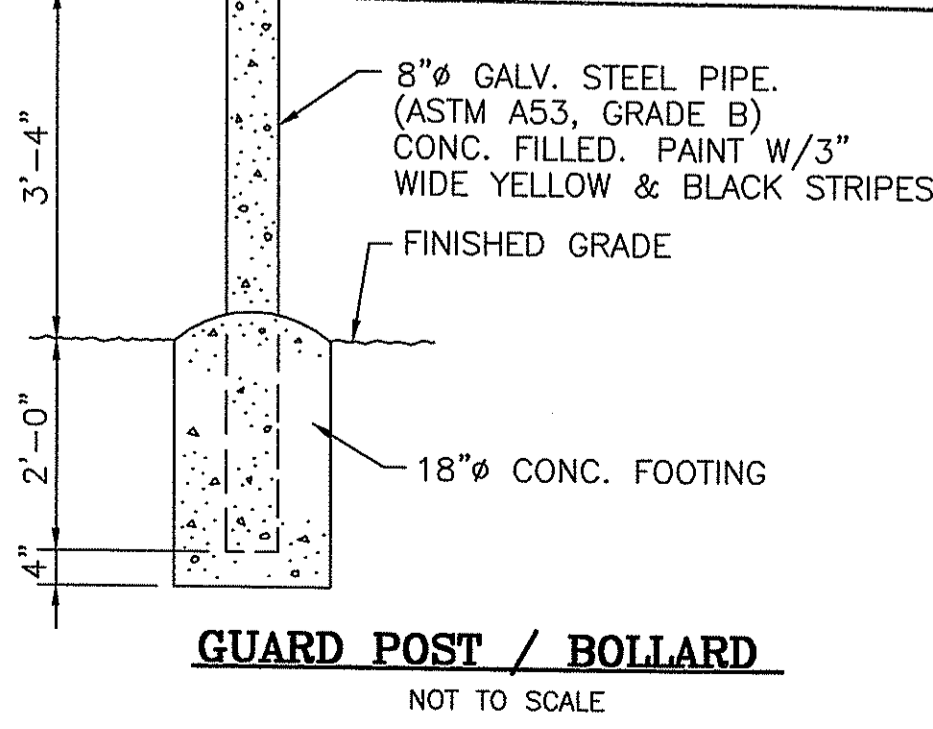


PARKING AREA & DRIVEWAYS
 PAVEMENT CROSS SECTION
 NOT TO SCALE

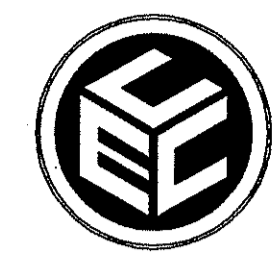


HANDICAP PARKING SPACES
 NOT TO SCALE

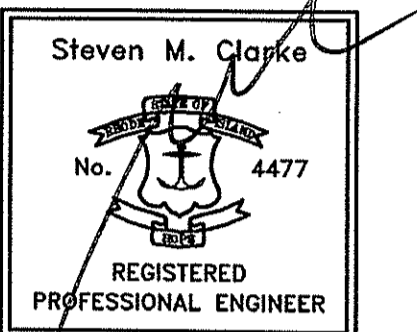
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GUARD POST / BOLLARD
 NOT TO SCALE



COMMONWEALTH ENGINEERS & CONSULTANTS, INC.
 400 SMITH STREET
 PROVIDENCE, RI 02908
 PHONE: (401) 273-6600



Revision:

1
2
3
4
5
6
7

ASSESSORS REFERENCE:

A.P. 26 LOT 10

ZONING REFERENCE:

MILL USE ORDINANCE - MILL CONVERSION

A.P. 26 LOT 10 IS SUBJECT TO WEST WARWICK ZONING ORDINANCE SECTION 5.14 RE-USE DEVELOPMENTS OF HISTORIC MILL STRUCTURES.

Drawn: JP

Checked:

Scale: AS NOTED

Key Plan: Scale: 1"=2,000'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED DEC 05 2007 FILE # 07-2402
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Project Name:

THE COTTON SHED
 West Warwick, Rhode Island

Sheet Name:

CONSTRUCTION DETAILS

Project No.:

07005.00

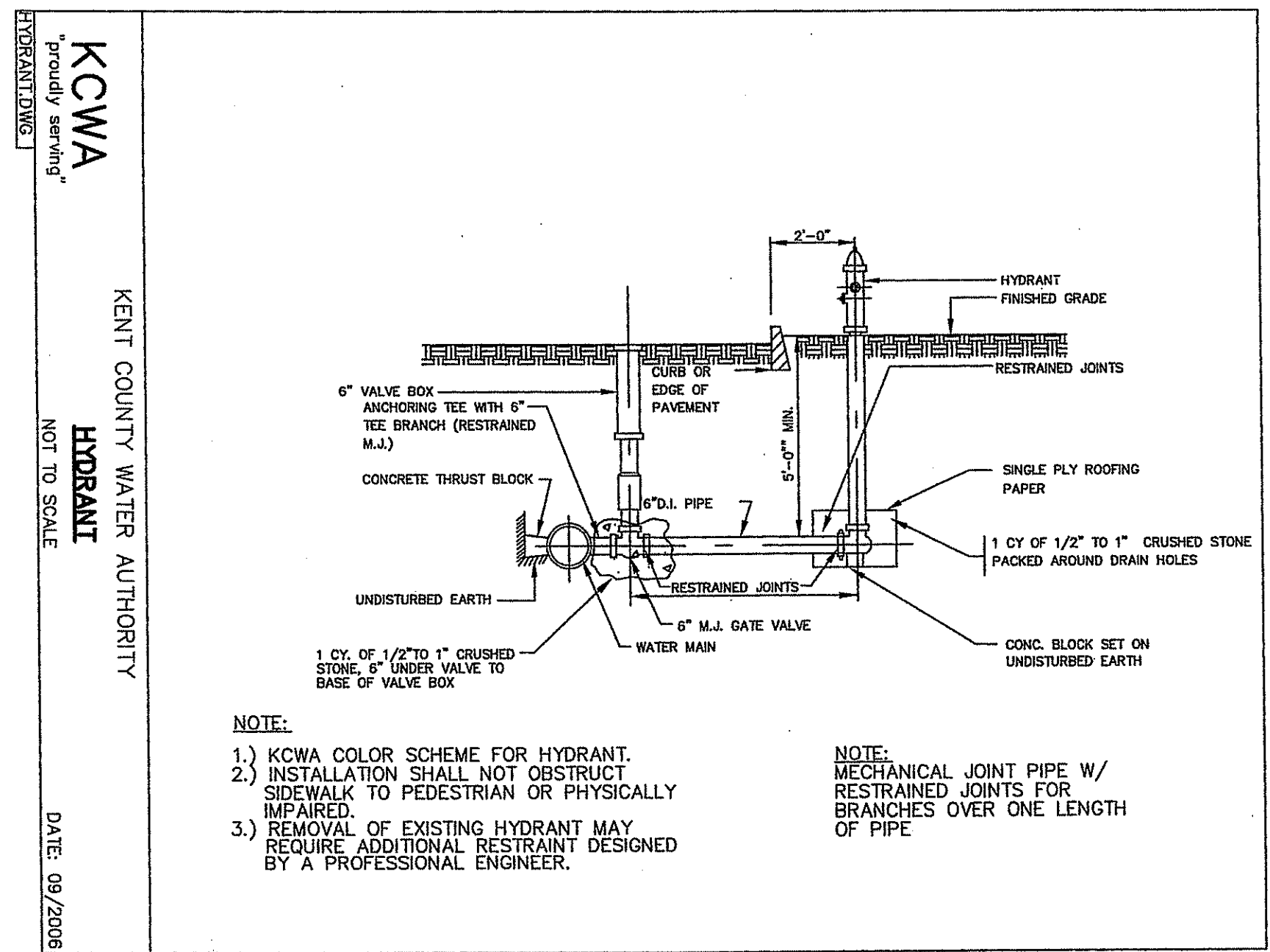
OCT 1 2007

Issue Date:

9/26/07

Sheet No.:

SHEET C-7.4

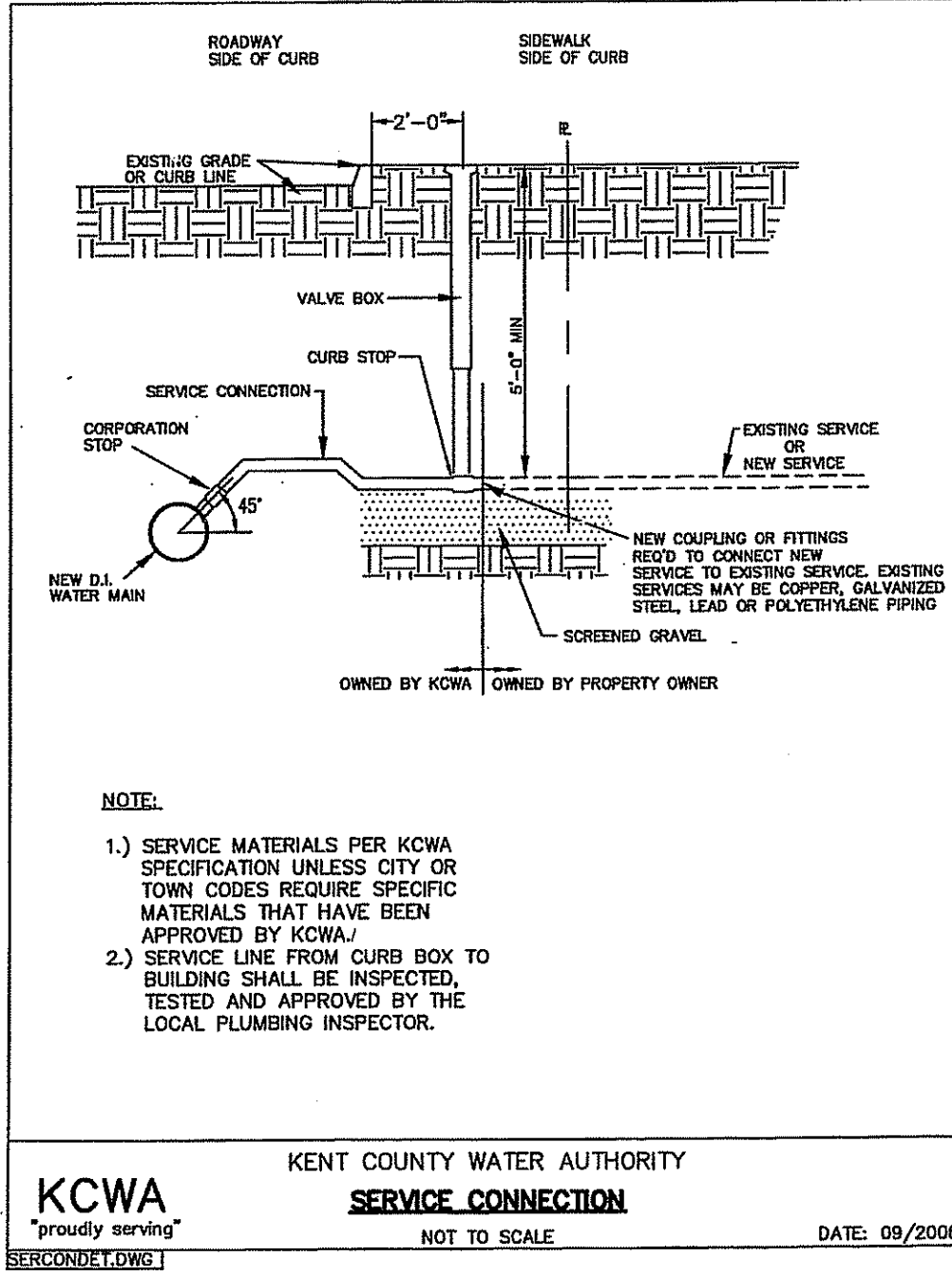


RESTRAINED PIPE LENGTHS FOR RESTRAINED FITTINGS

FITTING	RESTRAINED LENGTH
12" FLUG	34"
12" TEE	44"
12" 90°	44"
12" 45°	44"
12" 22 1/2°	22"
12" 11 1/4°	22"
8" FLUG	30"
8" TEE	44"
8" 90°	44"
8" 45°	22"
8" 22 1/2°	22"
8" 11 1/4°	22"
6" x 6"	44"
6" FLUG	44"
6" TEE	22"
6" 90°	22"
6" 45°	22"
6" 22 1/2°	22"
6" 11 1/4°	22"

NOTE:
 1. ALL JOINTS INCLUDING PIPE JOINTS, VALVE JOINTS, AND FITTING JOINTS SHALL BE RESTRAINED. RESTRAINTS SHALL BE IN ACCORDANCE WITH THE ABOVE TABLE.
 2. THE TABLE SHOWS LENGTHS OF PIPES WHICH MUST BE RESTRAINED ON BOTH SIDES OF THE FITTING.
 3. ALL DEAD END PIPE SHALL BE PROPERLY RESTRAINED PRIOR TO PRESSURE TESTING.
 4. RESTRAINED PROFESSIONAL ENGINEER IN THE STATE OF R.I. SHALL VERIFY ALL CALCULATIONS DURING DESIGN, MEETING ALL REQUIREMENTS OF THE WORK.

Kent County Water Authority
RESTRAINED PIPE LENGTHS
 NOT TO SCALE DATE: 09/2006



NOTE:
 1. ALL CONCRETE SHALL BE 4000 P.S.I @ 28 DAYS.
 2. CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH.
 3. FORMS TO BE USED AS NECESSARY.
 4. ALL BOLTS AND NUTS TO BE PROTECTED FROM CONCRETE AND EASILY ACCESSIBLE WHEN THRUST BLOCK INSTALLED.
 5. REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF R.I. SHALL VERIFY ALL CALCULATIONS DURING DESIGN TO MEET CONDITIONS OF PROJECT AND KCWA REQUIREMENTS.

SIZE	TEES	PLUG	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	
6"	2.07	1.8	2.07	1.8			FEET
8"	3.22	2.0	3.22	2.0			
10"	4.46	2.6	4.46	2.6	3.64	2.5	
12"	5.66	2.9	5.66	2.9	2.0	1.67	
6"	25	22	25	22			INCHES
8"	39	31	39	24	44	30	
10"	54	31	54	31	44	30	
12"	68	35	68	35	44	30	

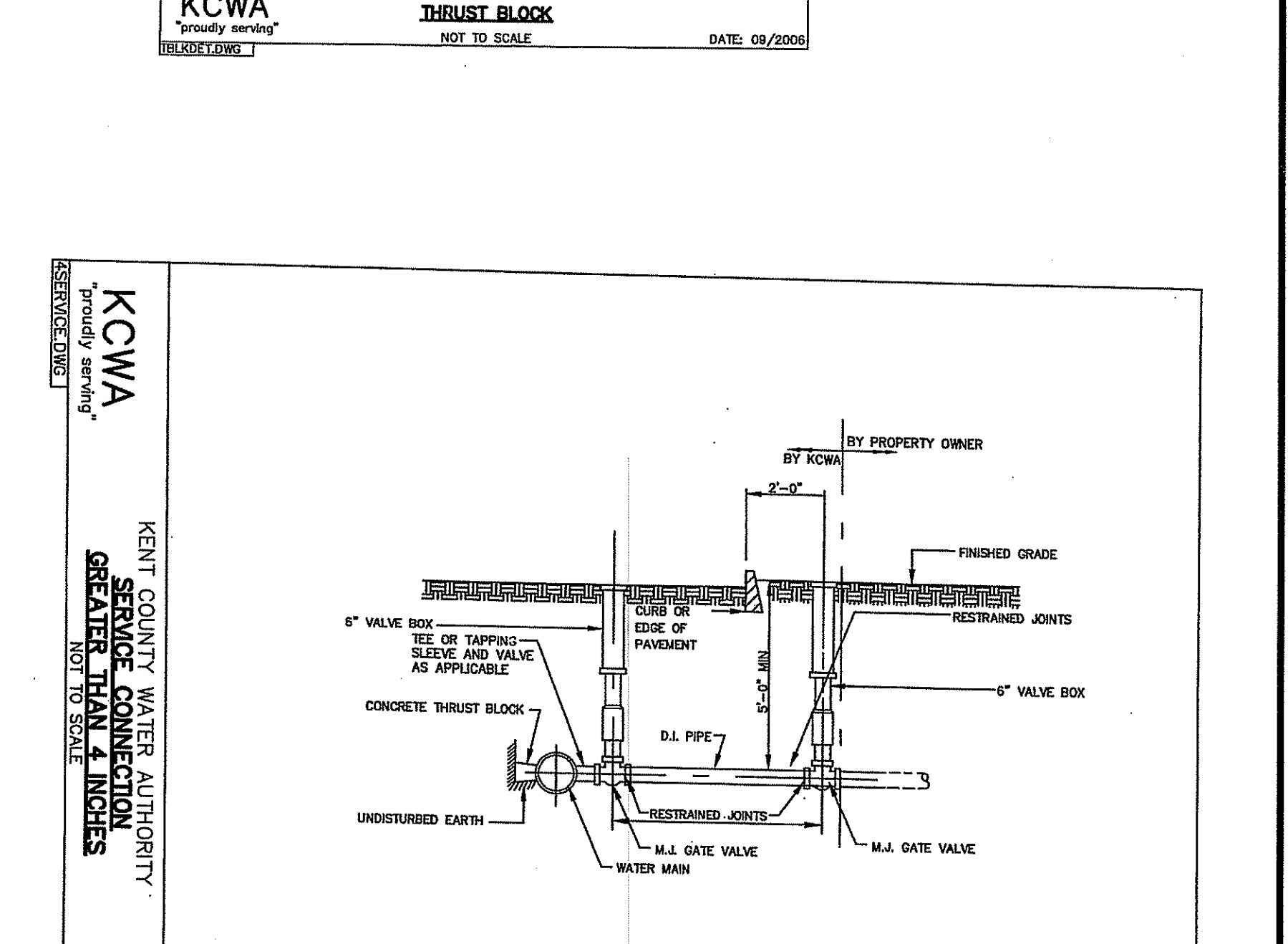
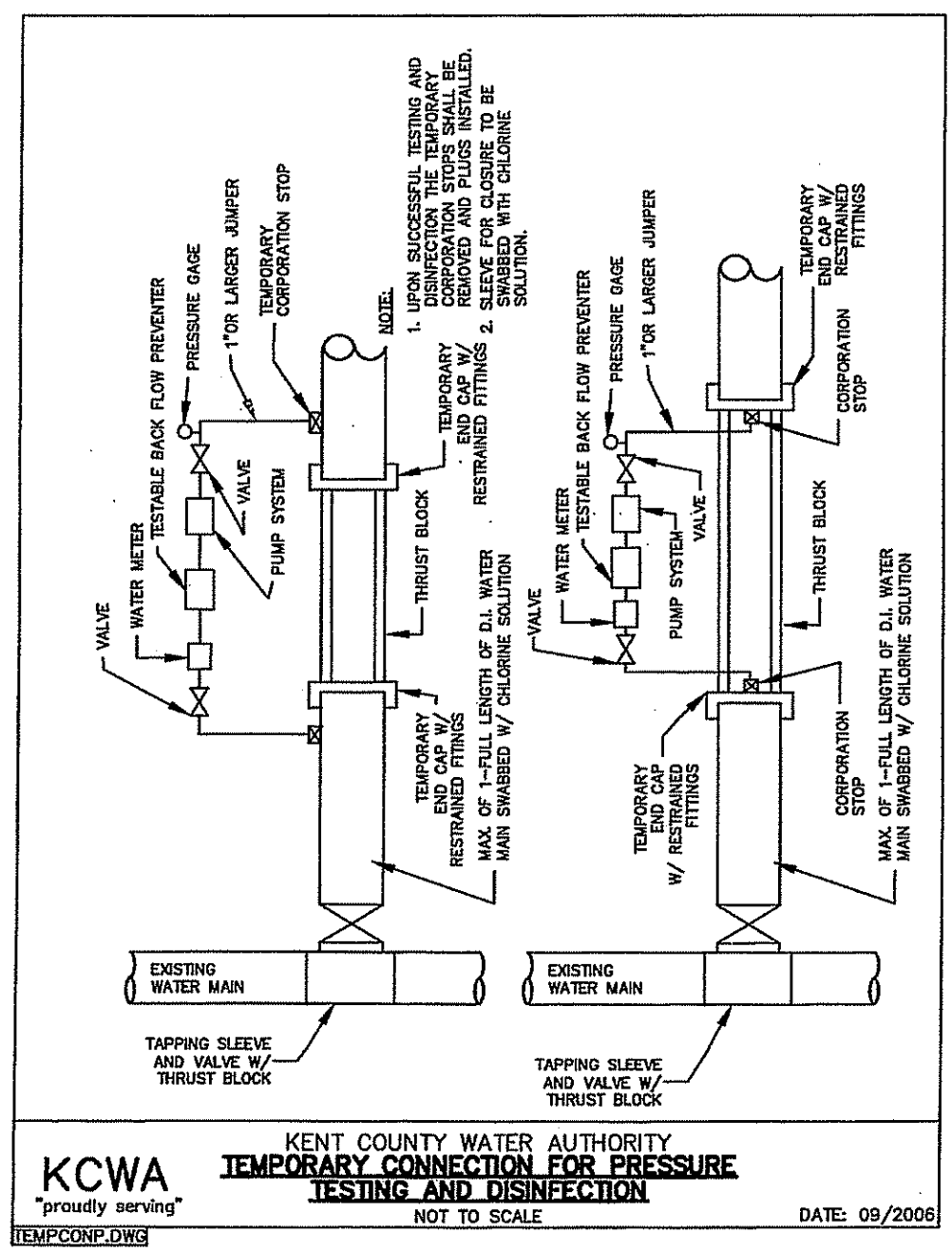
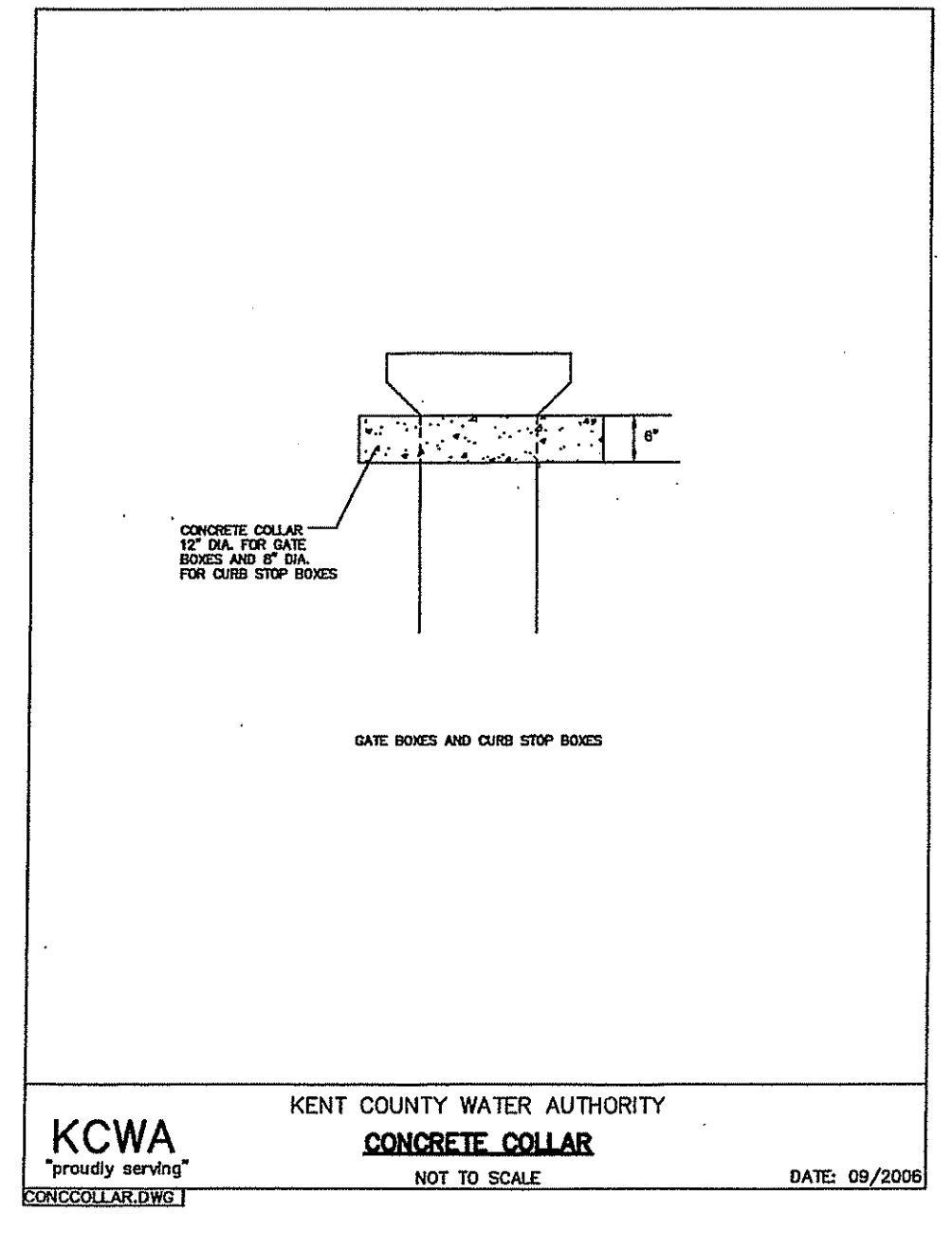
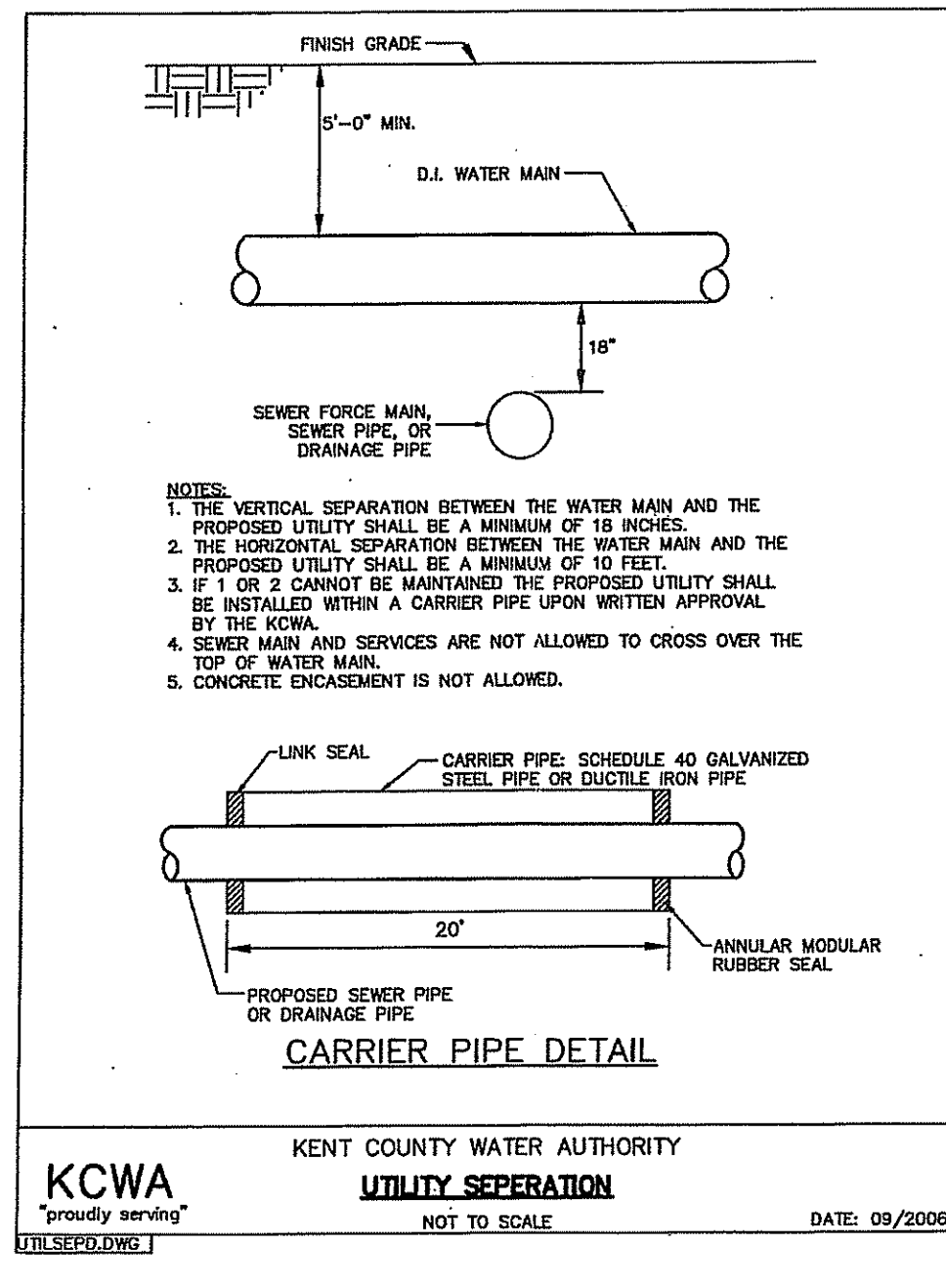
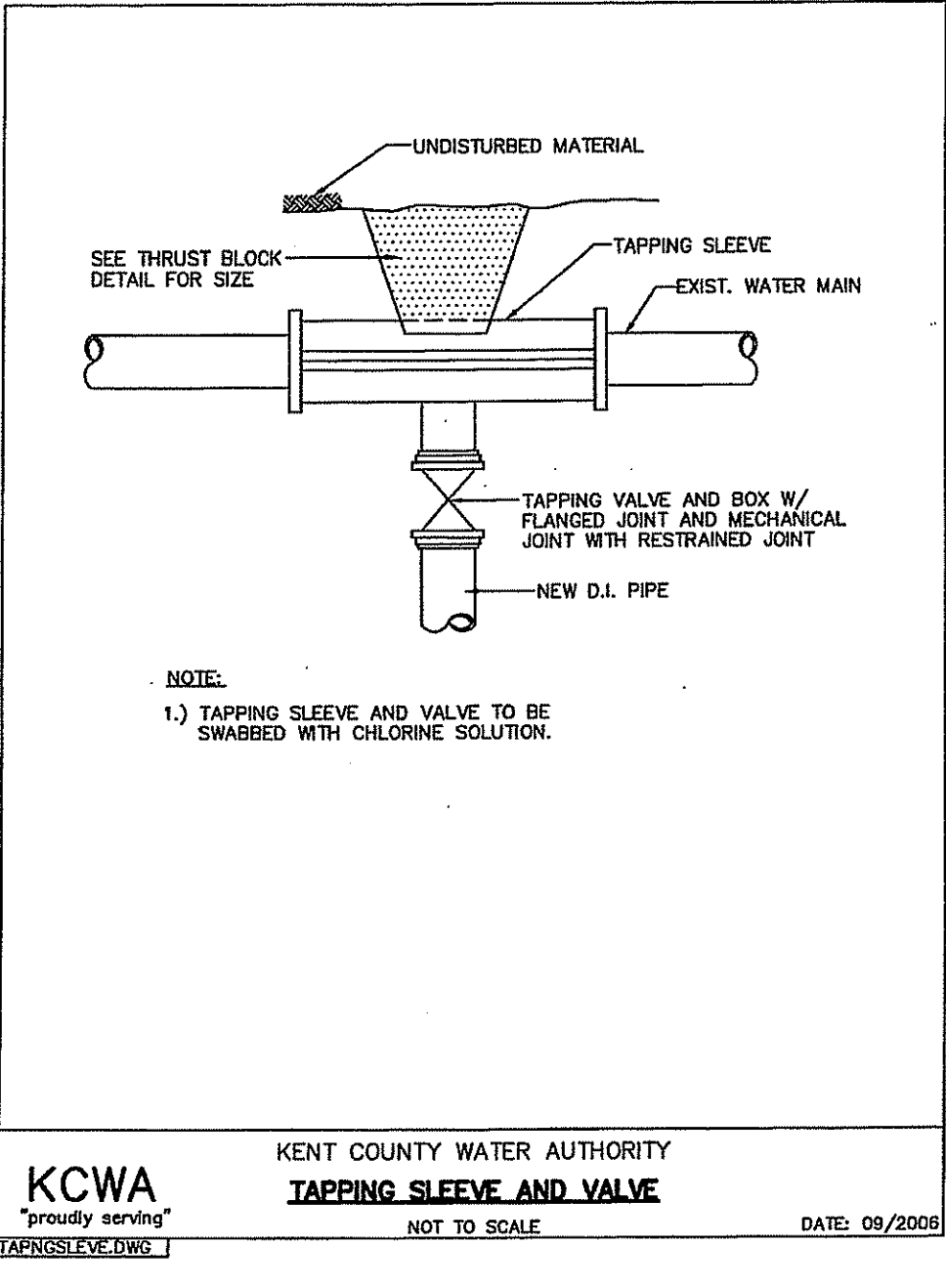
THRUST BLOCKS RESIZED BASED ON KENT COUNTY WATER AUTHORITY REGULATIONS TO MEET SPECIFIC SITE REQUIREMENTS

Kent County Water Authority
THRUST BLOCK
 NOT TO SCALE DATE: 09/2006

- NOTES:**
- ALL WATER CONNECTIONS, BOTH DOMESTIC AND FIRE WILL BE INSTALLED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE KENT COUNTY WATER AUTHORITY (KCWA).
 - CONSTRUCTION COORDINATION, SERVICE TESTING AND INSPECTION BY KCWA REQUIRED.
 - WATER CONNECTION PERMIT FEES RESPONSIBILITY OF PROJECT OWNER.
 - WATER SERVICE INSTALLATION REQUIRED TO BE COMPLETED WITH 5 FEET COVER MINIMUM ABOVE TOP OF PIPE.
 - AS-BUILT WATER SERVICE INSTALLATION DRAWINGS REQUIRED IN ACCORDANCE WITH SECTION 3.13 OF THE KCWA RULES AND REGULATIONS.
 - FOR DETAILS OF WATER METER BACKFLOW VALVES AND RELATED COMPONENTS SEE PROJECT ARCHITECTURAL AND MECHANICAL PLANS.
 - SEE SHEET C-7.1 FOR ADDITIONAL WATER SERVICE DETAILS

COMMONWEALTH ENGINEERS & CONSULTANTS, INC.
 400 SMITH STREET
 PROVIDENCE, RI 02908
 PHONE: (401) 273-8600

Steven M. Clarke
 REGISTERED PROFESSIONAL ENGINEER



Revision:

1
2
3
4
5
6
7

ASSESSORS REFERENCE:
 A.P. 26 LOT 10

ZONING REFERENCE:
 MILL USE ORDINANCE - MILL CONVERSION

A.P. 26 LOT 10 IS SUBJECT TO WEST WARWICK ZONING ORDINANCE SECTION 5.14 RE-USE DEVELOPMENTS OF HISTORIC MILL STRUCTURES.

Drawn: JP

Checked:

Scale: AS NOTED
 Key Plan: Scale: 1"=2,000'

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Project Name:
THE COTTON SHED
 West Warwick, Rhode Island

Sheet No.:

CONSTRUCTION DETAILS

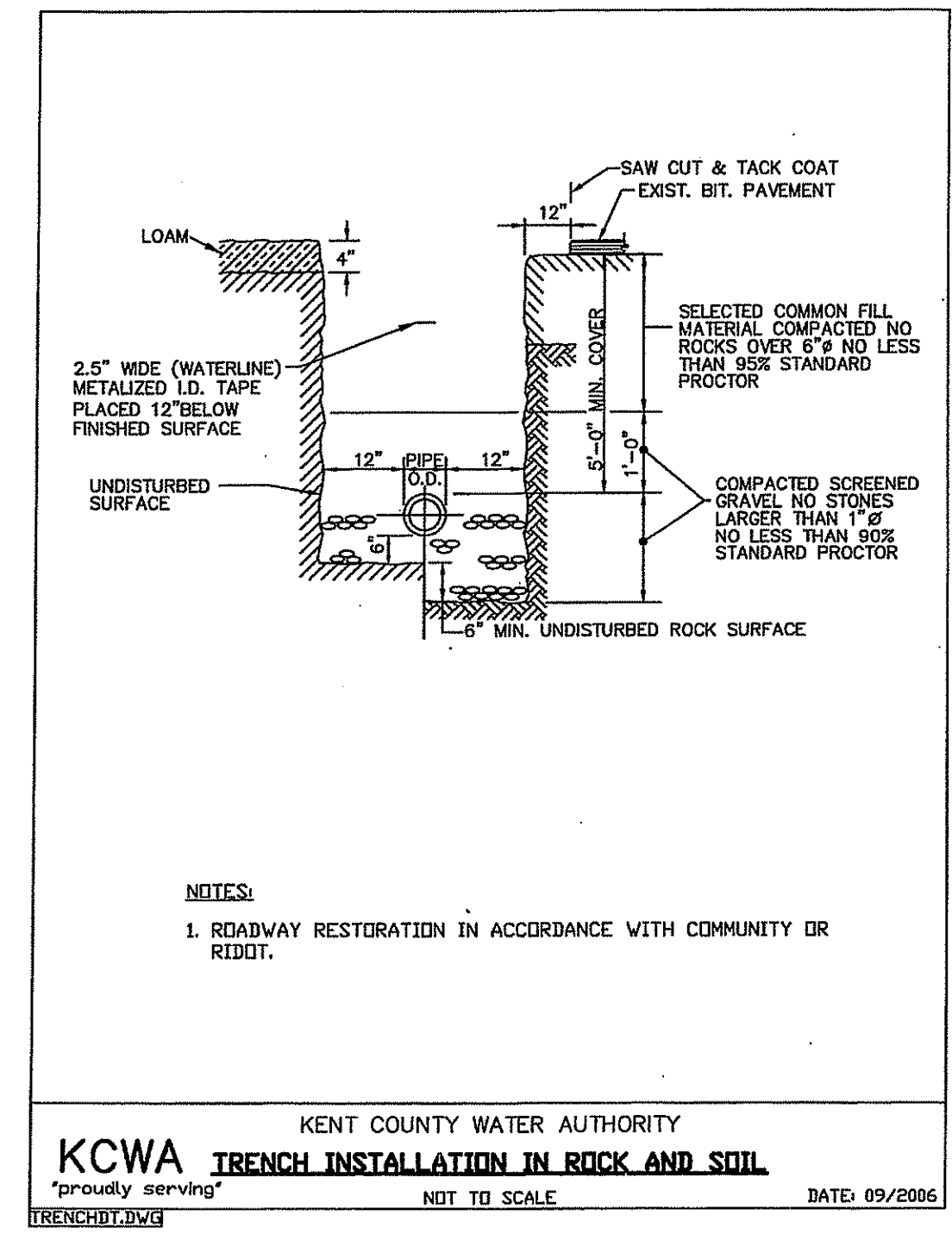
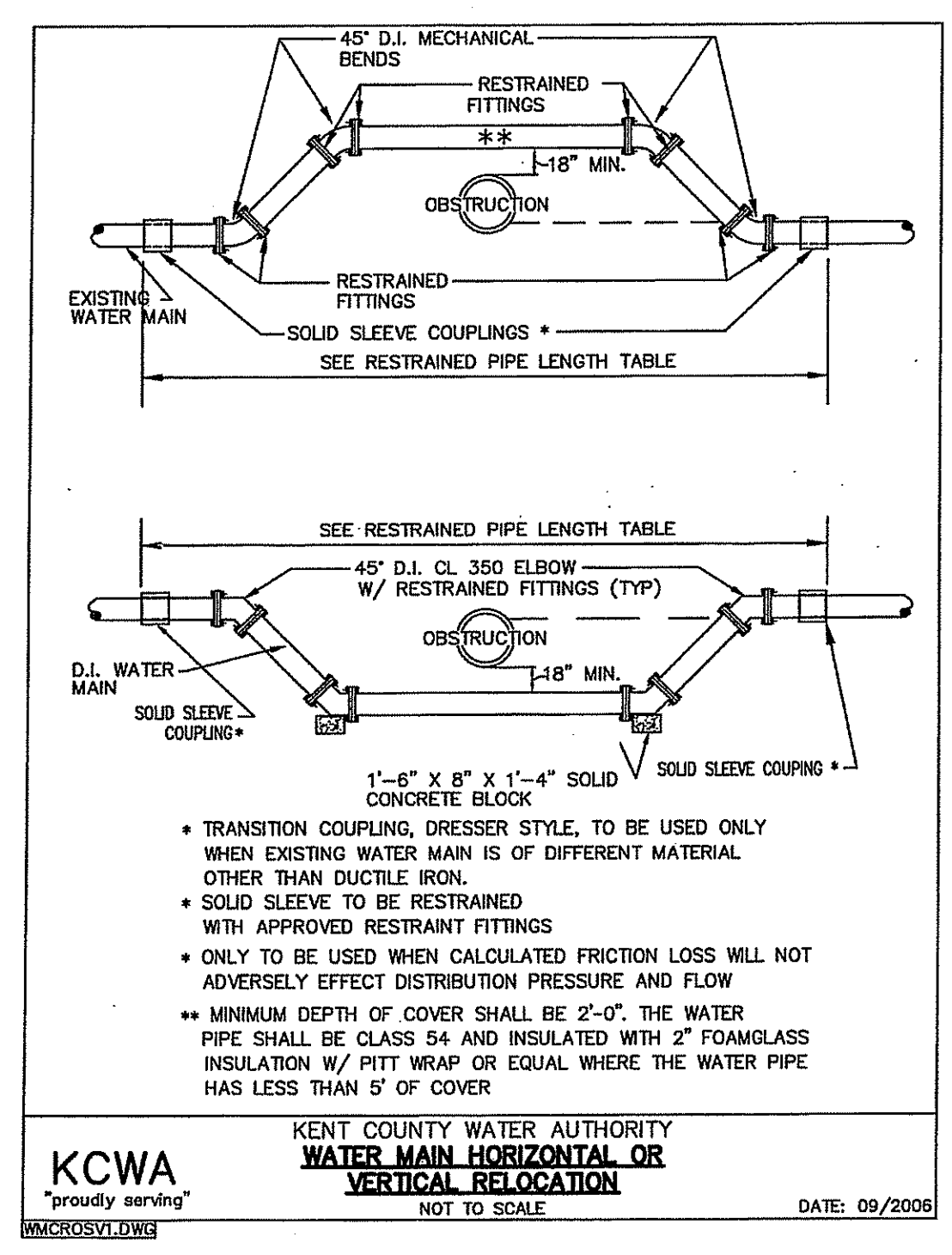
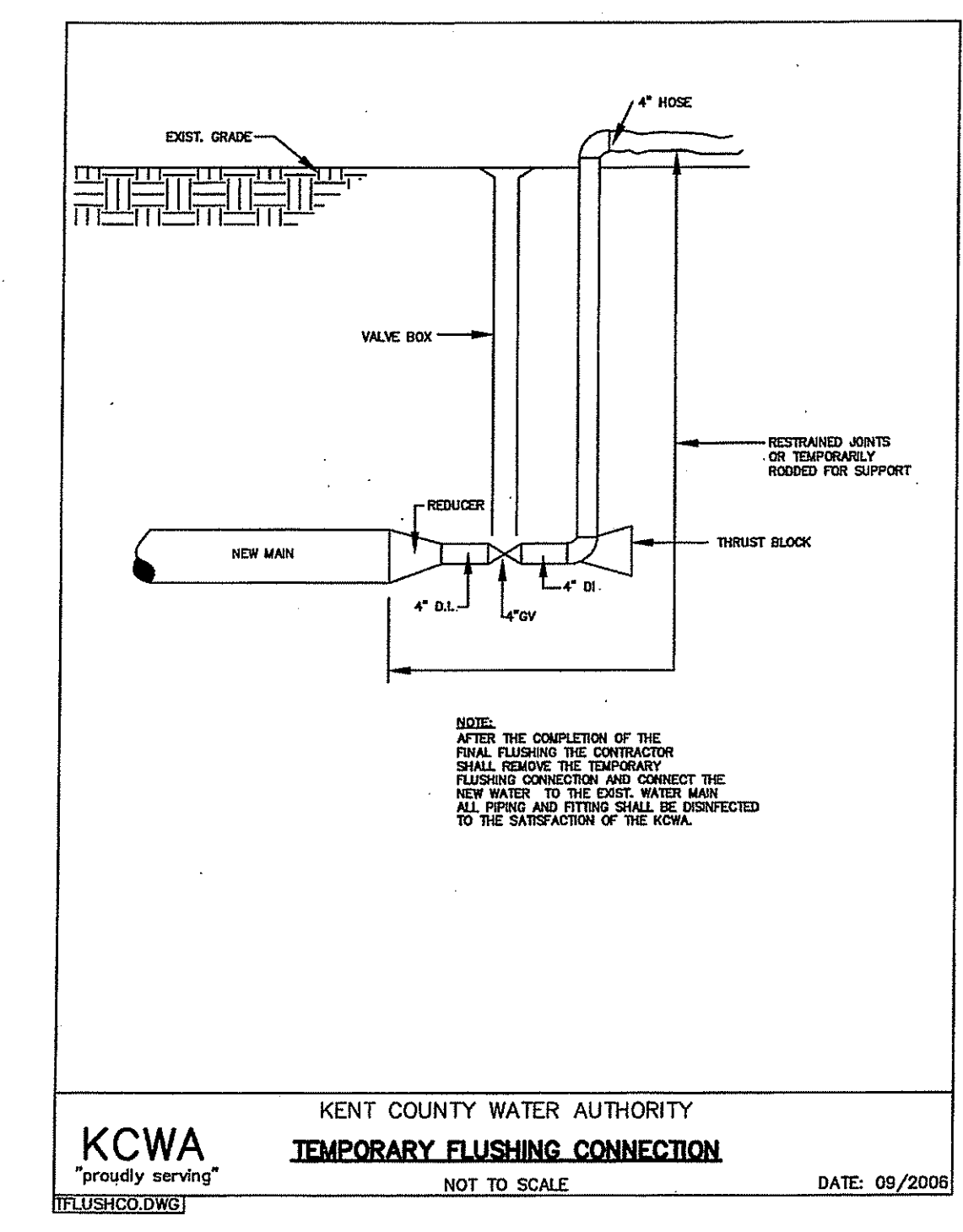
Project No.: OCT 1 2007
07005.00

Issue Date:
9/26/07

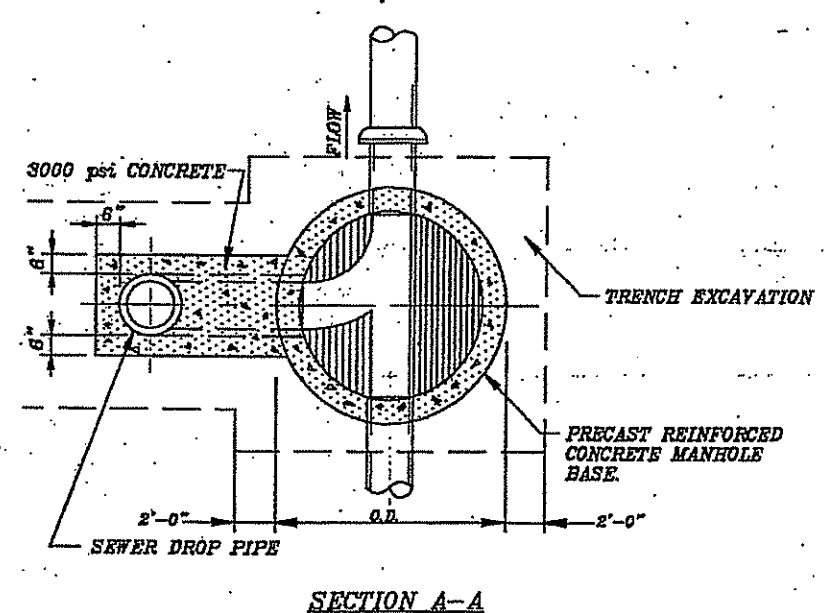
Sheet No.:
SHEET C-7.5

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED DEC 0 5 2007 FILE # 07-0403
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W. Joseph Conroy

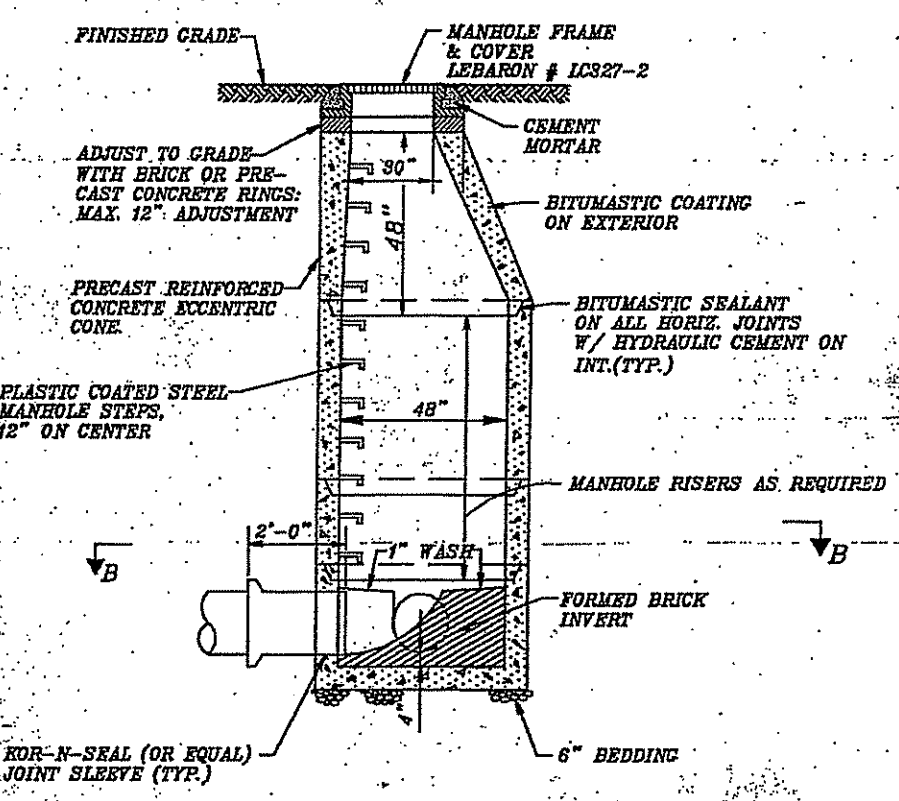


O:\07000\07005.00 Cotton Shed - Site Design\Drawings\07005 DEM DS 9-26-07.dwg, 9/27/2007 9:11:13 AM



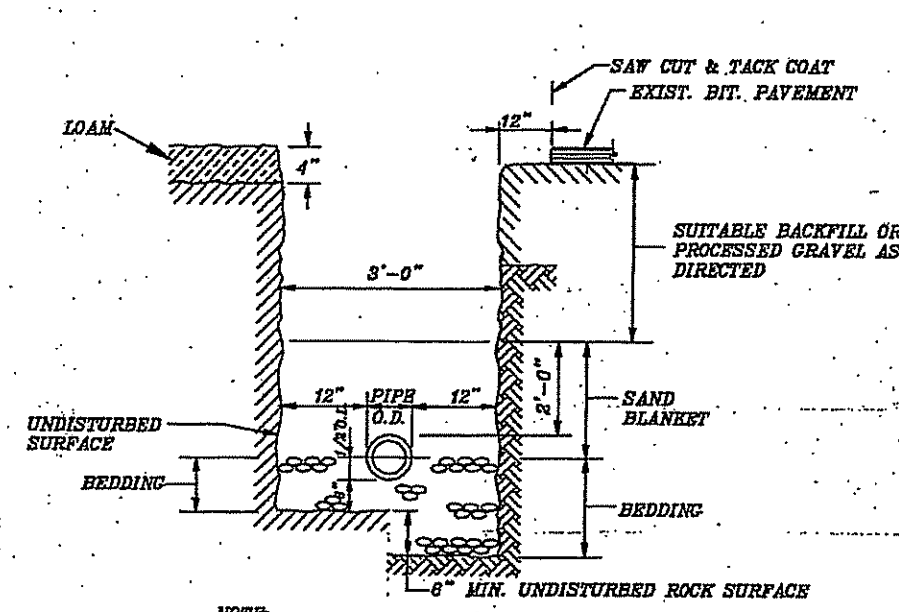
SECTION A-A
EXTERNAL DROP SANITARY MANHOLE DETAIL

WW-5
TRAVASSON-GEREMIA & ASSOCIATES, INC.
PROVIDENCE, RHODE ISLAND 02908
PHONE: (401) 273-6600



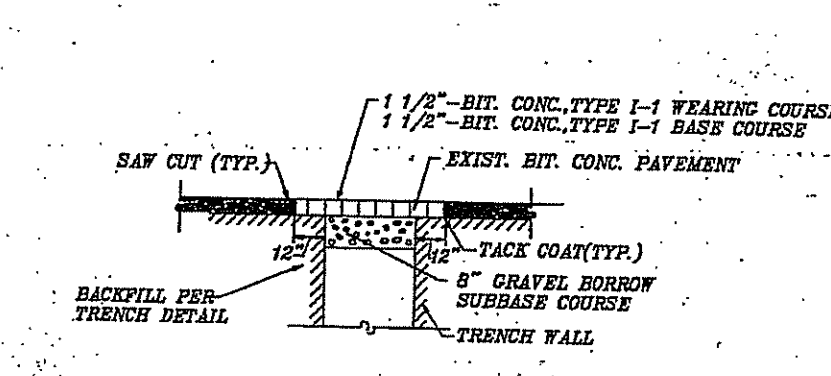
SANITARY MANHOLE DETAIL

WW-2
TRAVASSON-GEREMIA & ASSOCIATES, INC.
PROVIDENCE, RHODE ISLAND 02908
PHONE: (401) 273-6600



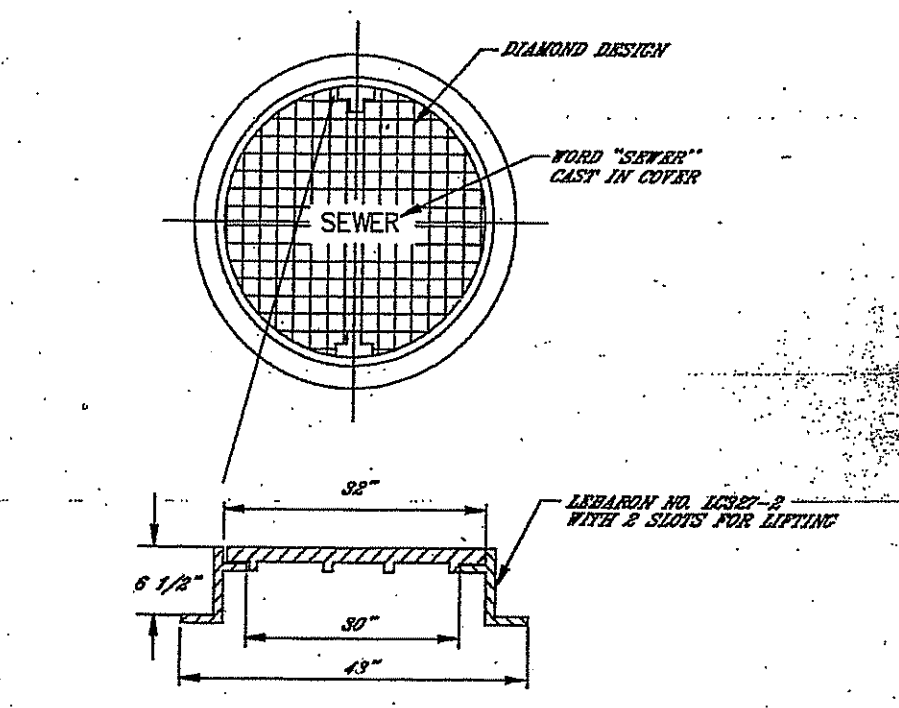
TRENCH DETAIL

WW-1
TRAVASSON-GEREMIA & ASSOCIATES, INC.
PROVIDENCE, RHODE ISLAND 02908
PHONE: (401) 273-6600



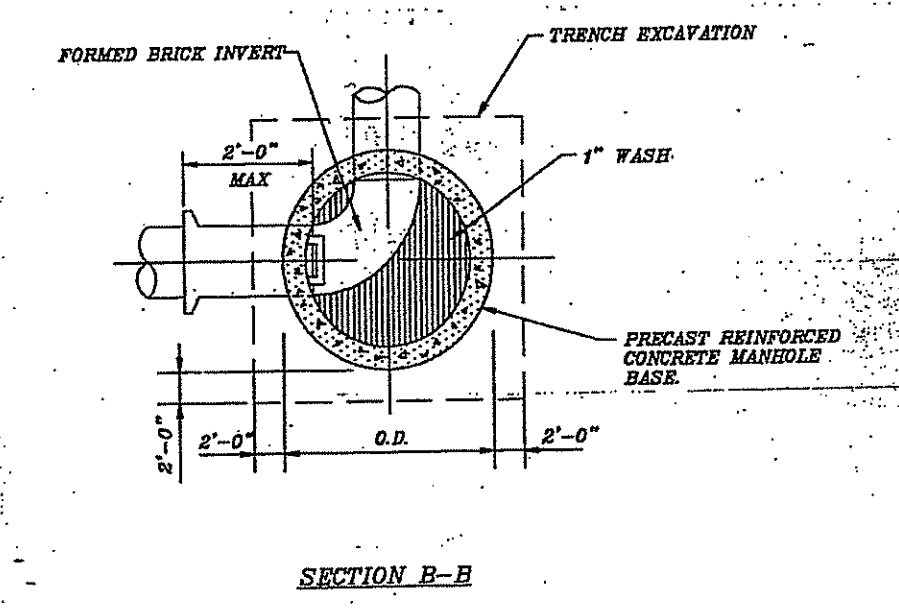
PERMANENT PAVEMENT-BIT DRIVEWAYS & SIDEWALKS

WW-14
TRAVASSON-GEREMIA & ASSOCIATES, INC.
PROVIDENCE, RHODE ISLAND 02908
PHONE: (401) 273-6600



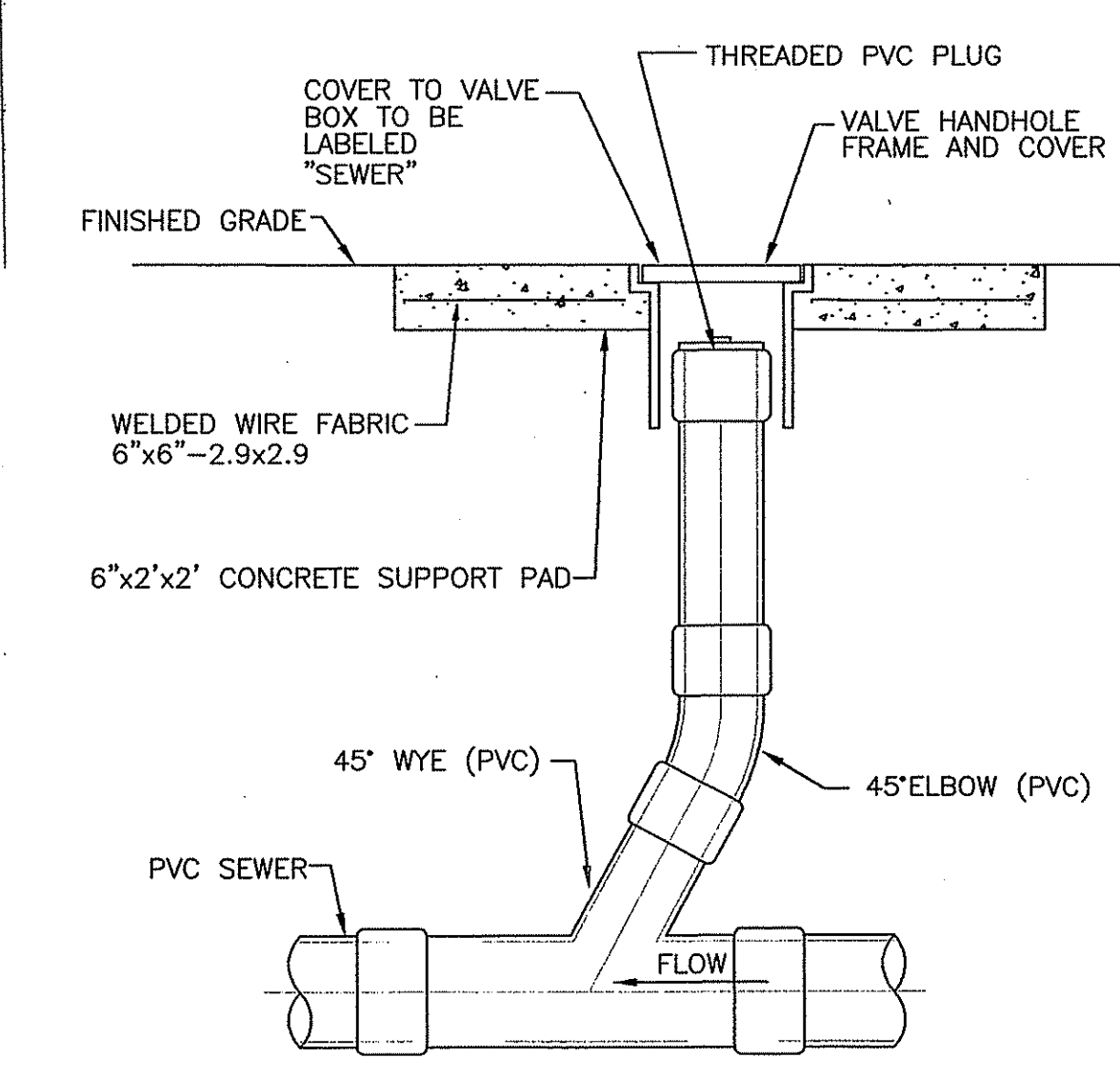
SANITARY MANHOLE FRAME & COVER DETAIL

WW-8
TRAVASSON-GEREMIA & ASSOCIATES, INC.
PROVIDENCE, RHODE ISLAND 02908
PHONE: (401) 273-6600



PRECAST MANHOLE DETAIL

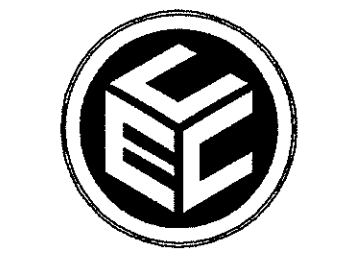
WW-9
TRAVASSON-GEREMIA & ASSOCIATES, INC.
PROVIDENCE, RHODE ISLAND 02908
PHONE: (401) 273-6600



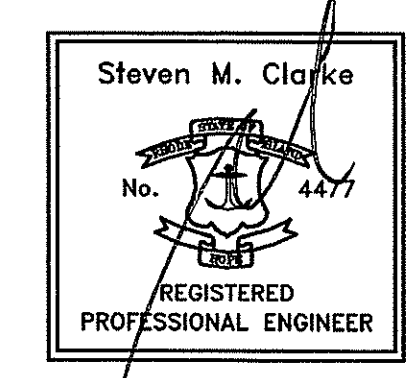
CLEANOUT DETAIL
NOT TO SCALE

NOTES:

- ALL SANITARY SEWER CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WEST WARWICK SEWER COMMISSION.
- SANITARY SEWER LATERALS TO BE INSTALLED WITH TWO (2) INCHES OF FOAMGLASS INSULATION IN ALL AREAS WHERE COVER IS LESS THAN FOUR (4) FEET.
- AS-BUILT SEWER DRAWINGS REQUIRED IN ACCORDANCE WITH REQUIREMENTS OF WEST WARWICK SEWER COMMISSION.



COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.
400 SMITH STREET
PROVIDENCE, RI 02908
PHONE: (401) 273-6600



Revision:

1
2
3
4
5
6
7

ASSESSORS REFERENCE:

A.P. 26 LOT 10

ZONING REFERENCE:

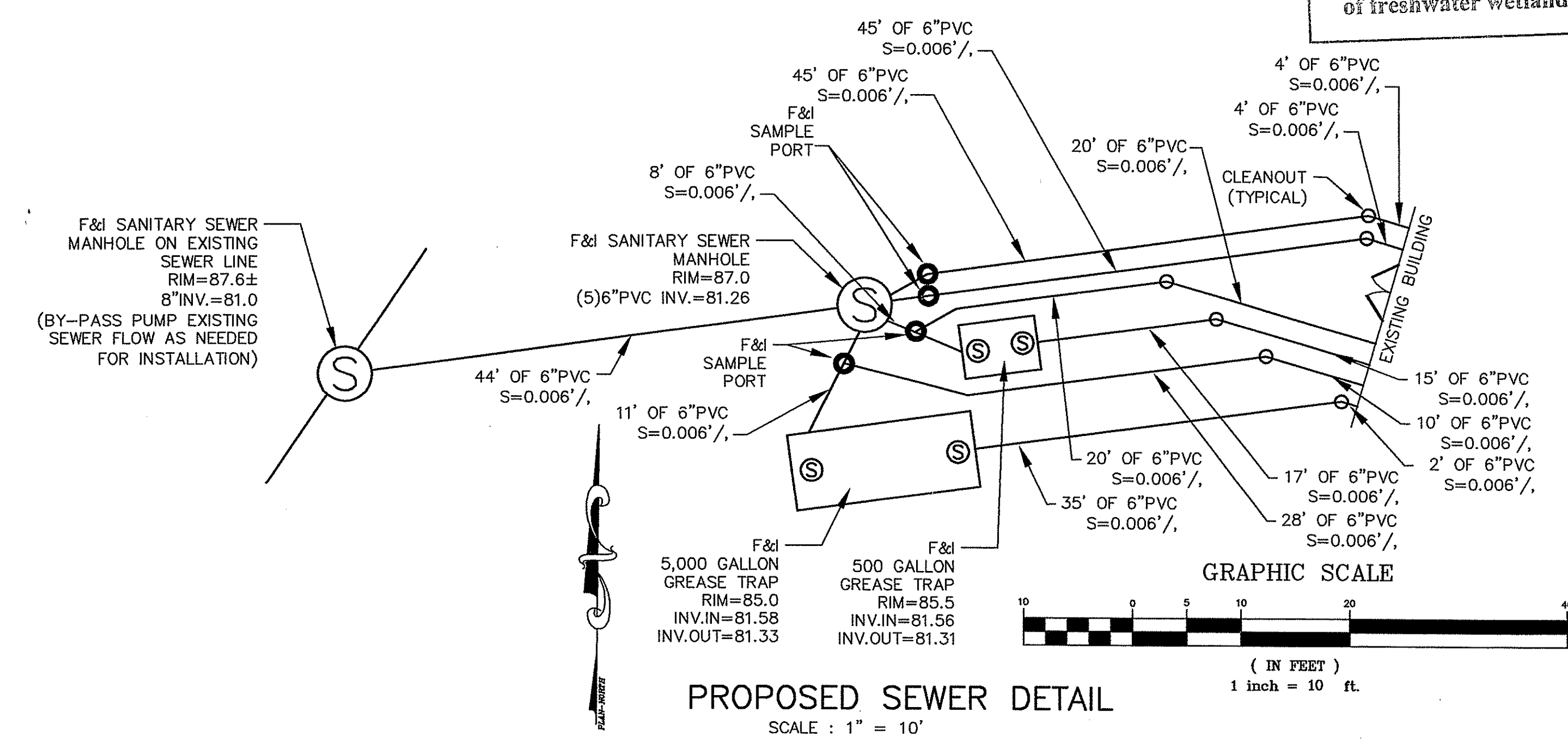
MILL USE ORDINANCE - MILL CONVERSION
A.P. 26 LOT 10 IS SUBJECT TO WEST WARWICK ZONING ORDINANCE SECTION 5.14 RE-USE DEVELOPMENTS OF HISTORIC MILL STRUCTURES.

Drawn: JP

Checked:

Scale: AS NOTED
Key Plan: Scale: 1"=2,000'

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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DATED DEC 05 2007 FILE # 07-1402
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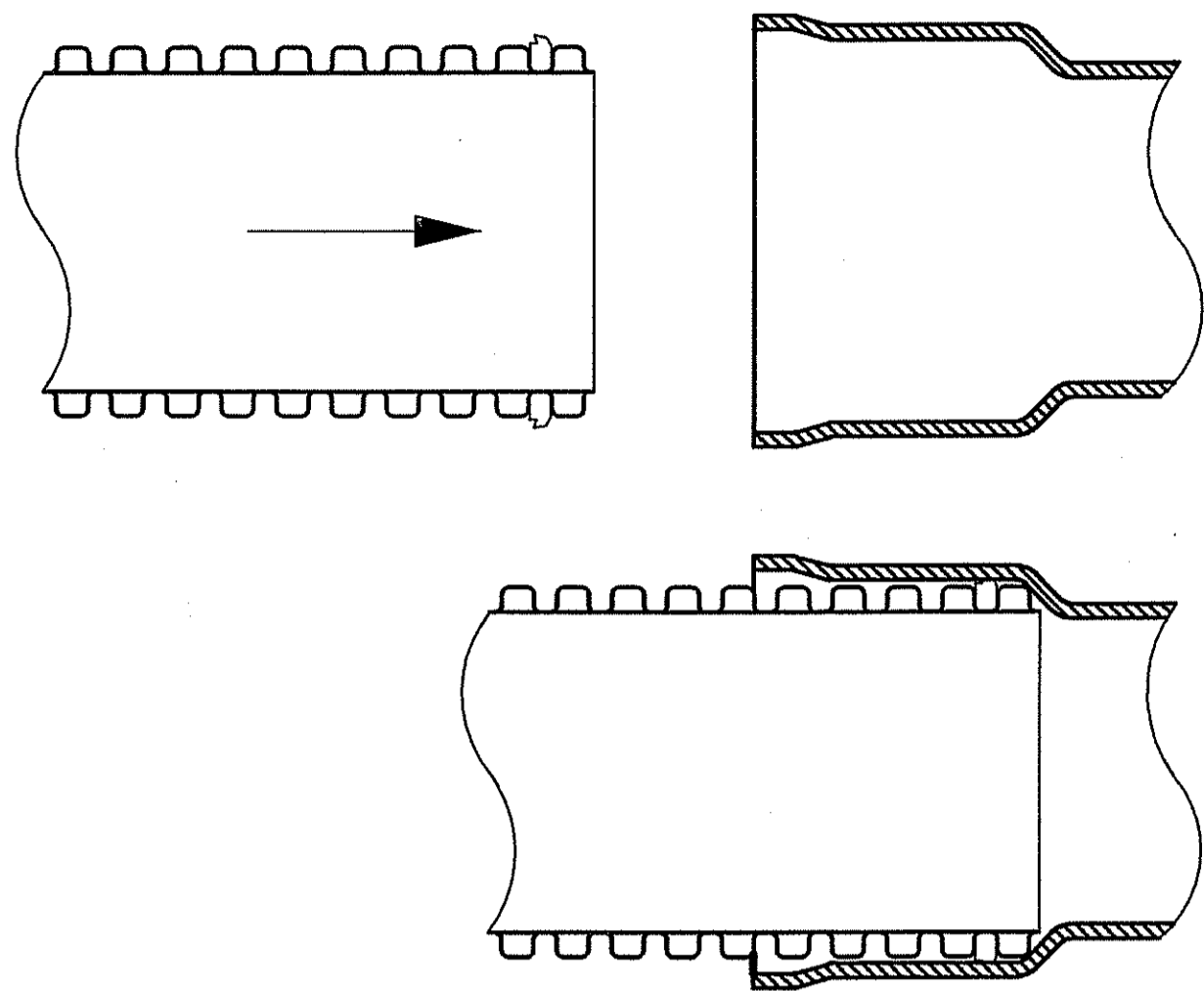
Project Name:
THE COTTON SHED
West Warwick, Rhode Island
Sheet Name:

CONSTRUCTION DETAILS

Project No.:
07005.00 OCT 1 2007

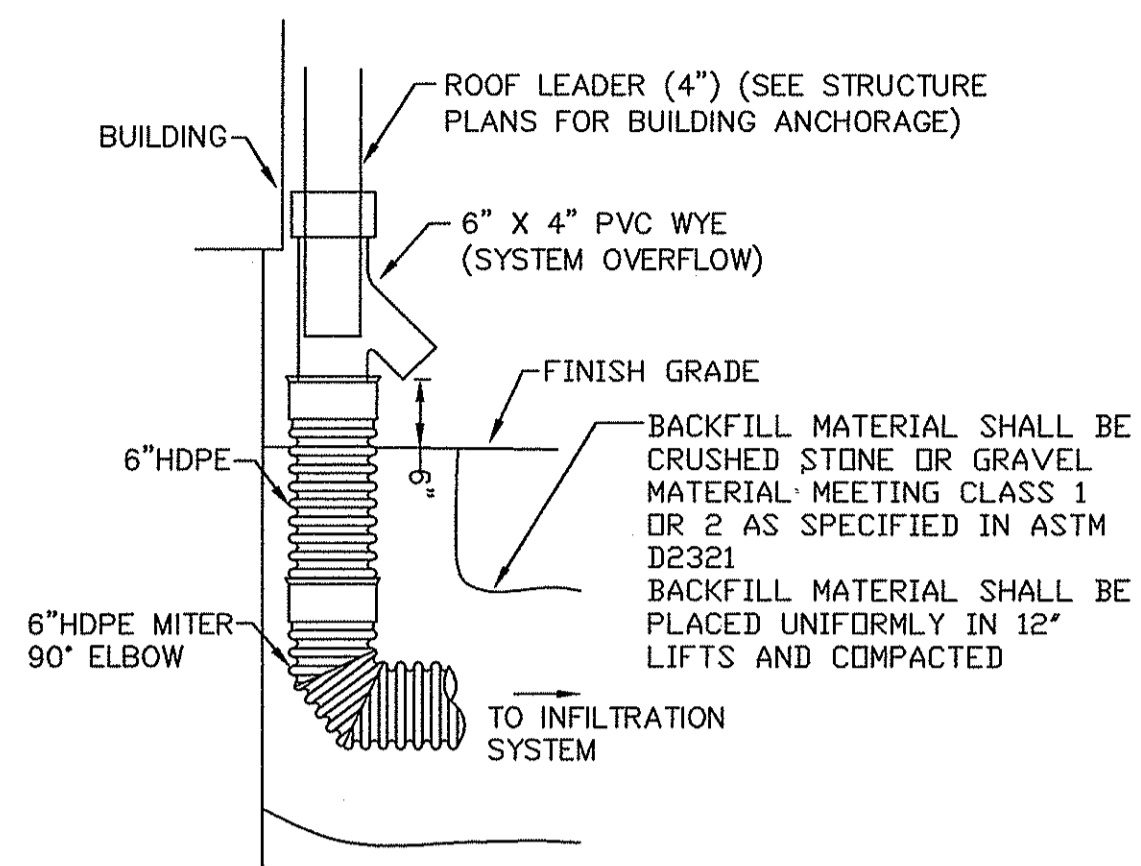
Issue Date:
9/26/07

Sheet No.:
SHEET C-7.6

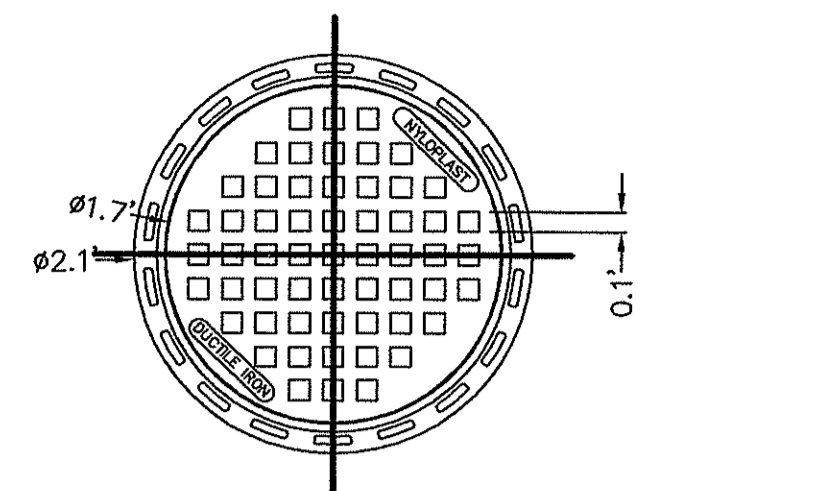


WATER TIGHT JOINT
NOT TO SCALE

NOTES:

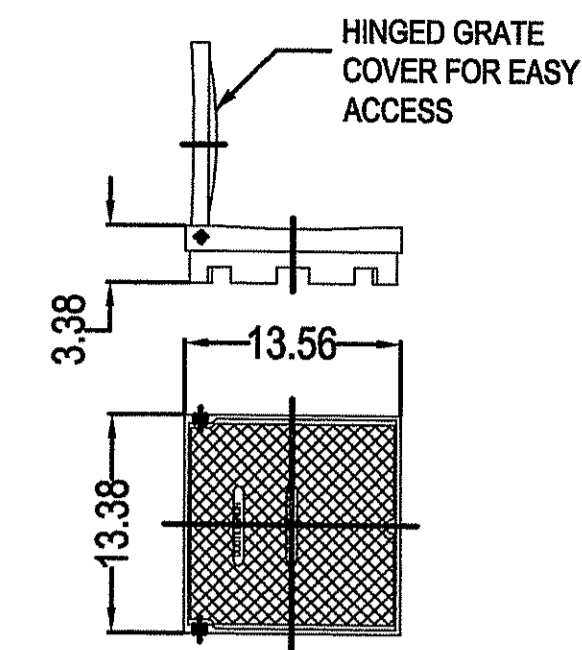


ROOF LEADER COLLECTOR DETAIL
NOT TO SCALE



STANDARD
APPROX. DRAIN AREA = 92.70 SQ. IN.
APPROX. WEIGHT WITH FRAME = 48.50 LBS.
STANDARD GRATE HAS H-25 HEAVY DUTY RATING
SOLID COVER HAS H-25 HEAVY DUTY RATING
PEDESTRIAN GRATE HAS H-10 MEDIUM DUTY RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
MATERIAL: DUCTILE IRON
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST
PRICE INCLUDES FRAME & GRATE/COVER

NYLOPLAST 18" GRATE
NOT TO SCALE



SOLID
APPROX. WEIGHT WITH FRAME = 39.90 LBS.

STANDARD GRATE HAS H-25 HEAVY DUTY RATING
SOLID COVER HAS H-25 HEAVY DUTY RATING
PEDESTRIAN GRATE HAS H-10 MEDIUM DUTY RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05 & A48-CLASS 30B
MATERIAL: DUCTILE IRON GRATE W/CAST IRON FRAME
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST
PRICE INCLUDES FRAME & GRATE/COVER

NYLOPLAST 12" COVER
NOT TO SCALE

COMMONWEALTH ENGINEERS & CONSULTANTS, INC.
400 SMITH STREET
PROVIDENCE, RI 02908
PHONE: (401) 273-6600

Steven M. Clarke
No. 4477
REGISTERED PROFESSIONAL ENGINEER

Revision:

1
2
3
4
5
6
7

ASSESSORS REFERENCE:
A.P. 26 LOT 10

ZONING REFERENCE:
MILL USE ORDINANCE -- MILL CONVERSION
A.P. 26 LOT 10 IS SUBJECT TO WEST WARWICK ZONING ORDINANCE SECTION 5.14 RE-USE DEVELOPMENTS OF HISTORIC MILL STRUCTURES.

Drawn: JP
Checked:
Scale: AS NOTED
Key Plan: Scale: 1"=2,000'

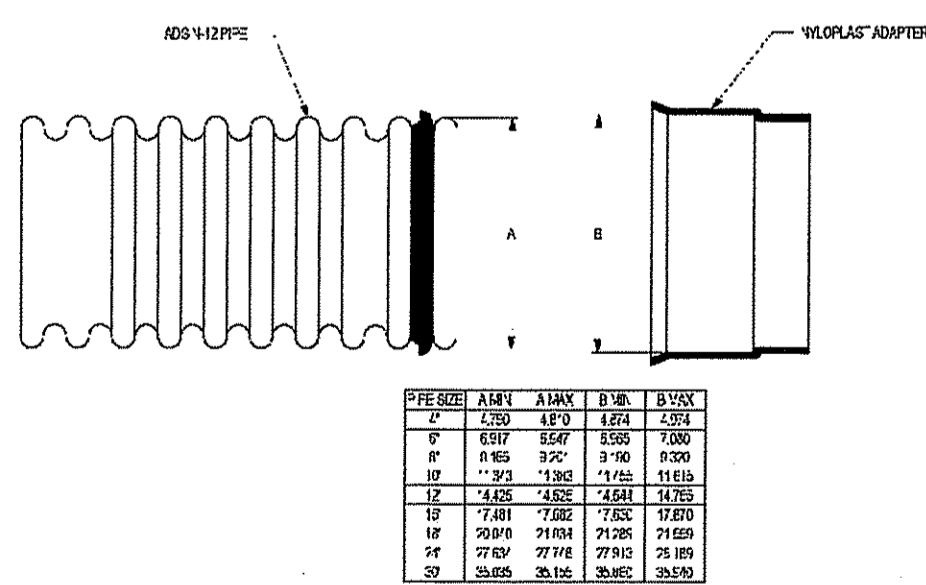
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 05 2007 FILE # 07-2103
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

W. Joseph Conway
Project Name:

THE COTTON SHED
West Warwick, Rhode Island

CONSTRUCTION DETAILS

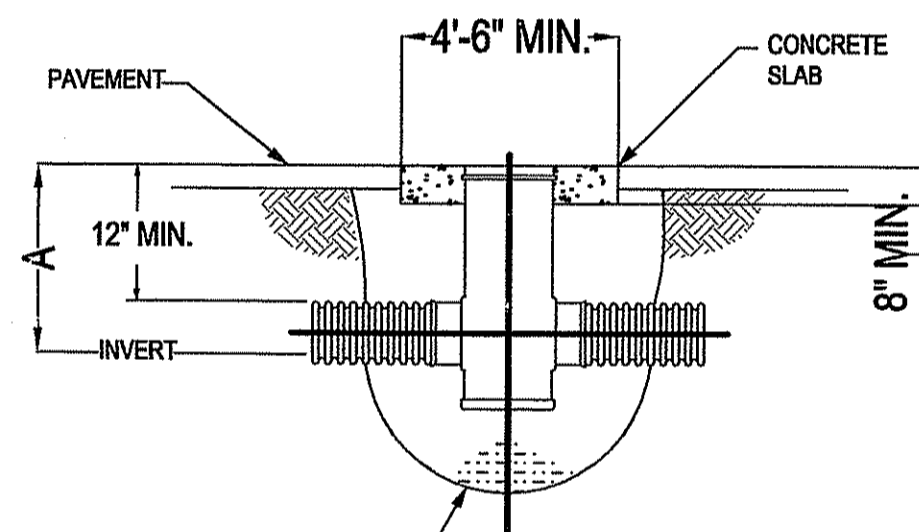
Project No.: 07005.00
Issue Date: 9/26/07
Sheet No.: SHEET C-7.7



ADS N-12 PIPE
NOT TO SCALE

NOTES:

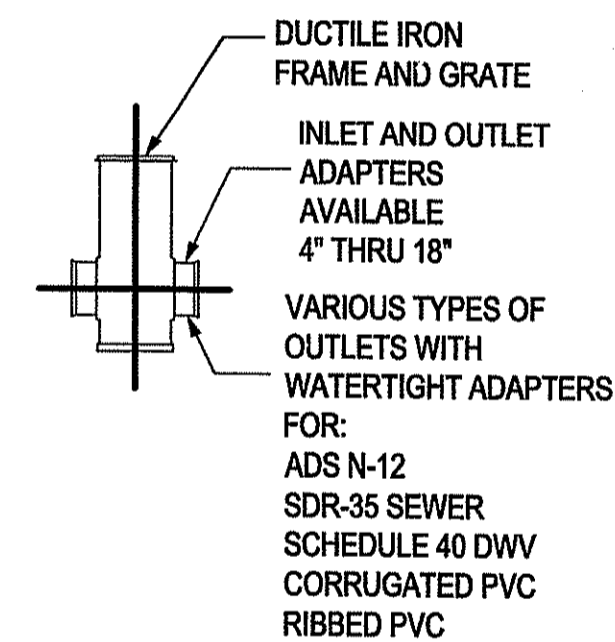
1. NYLOPLAST OR APPROVED EQUAL STRUCTURES REQUIRED.
2. SHOP DRAWING SUBMITTAL REQUIRED.
3. IN PAVED AREAS- CONCRETE COLLAR SLAB MUST BE INSTALLED BENEATH BITUMINOUS PAVEMENT.
4. CONCRETE COLLARS REQUIRED IN NON-PAVED AREAS.



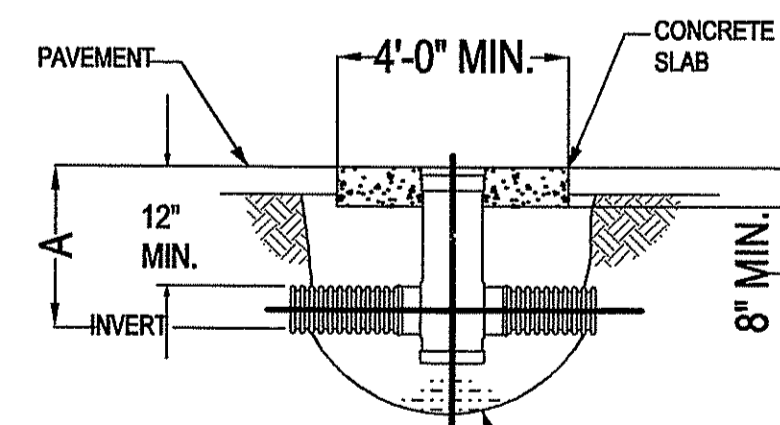
NYLOPLAST 18" DRAIN BASIN
NOT TO SCALE

BACKFILL MATERIAL SHALL BE CRUSHED STONE OR GRAVEL MATERIAL MEETING CLASS 1 OR 2 AS SPECIFIED IN ASTM D2321. BACKFILL MATERIAL SHALL BE PLACED UNIFORMLY IN 12" LIFTS AND COMPACTED.

PIPE SIZE	A (ADS N-12 PIPE)
4"	17.00"
6"	19.00"
8"	21.00"
10"	24.00"
12"	26.00"
15"	29.00"
18"	32.00"



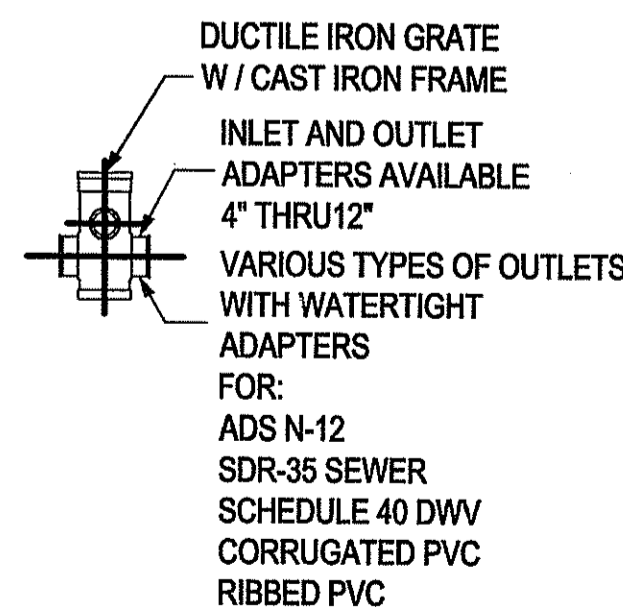
NYLOPLAST 18" DRAIN BASIN
NOT TO SCALE



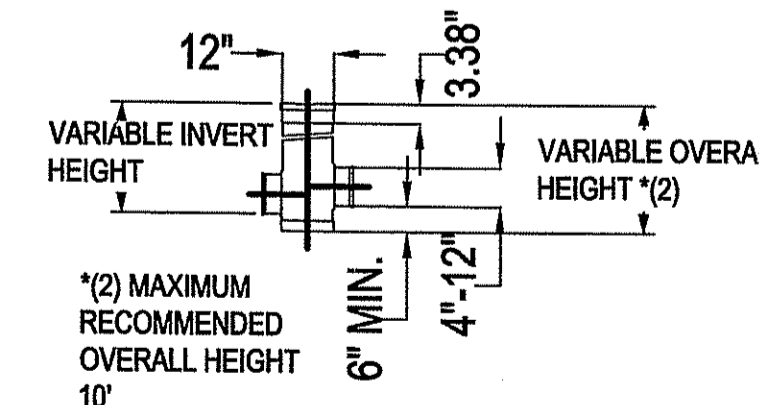
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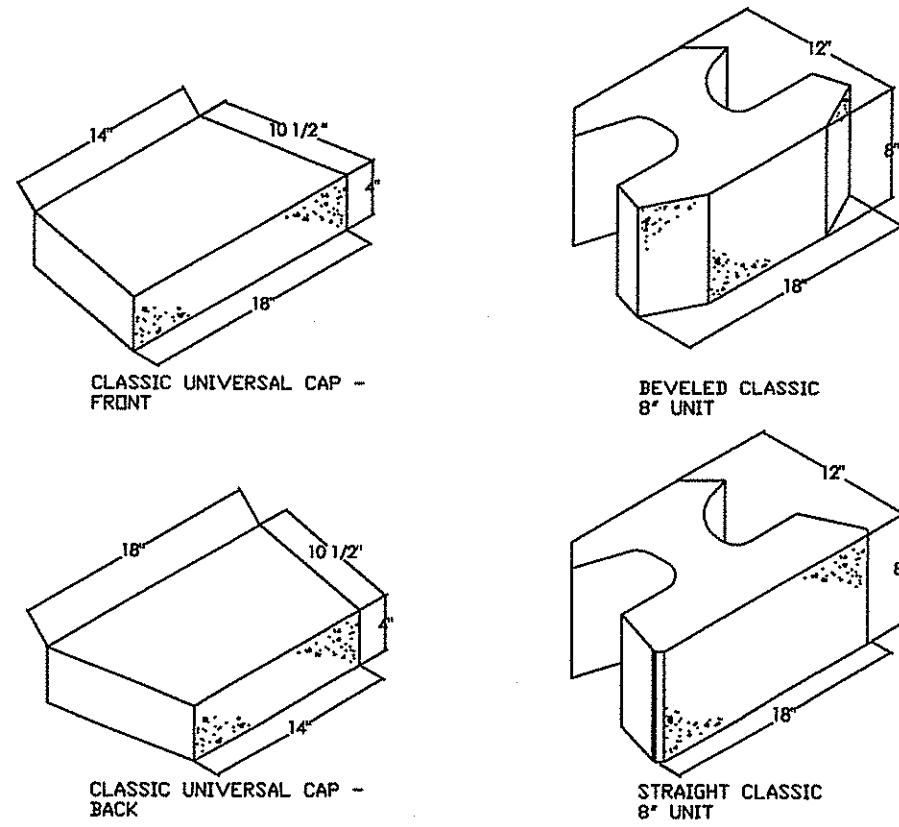
NYLOPLAST 12" DRAIN BASIN
NOT TO SCALE



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

NOTE: SAMPLE SUBMITTAL REQUIRED FOR OWNER SELECTION OF FACE PATTERN AND STONE COLOR.

ROCKWOOD OR APPROVED EQUAL VERTICAL BLOCK RETAINING WALL



GENERAL INFORMATION

ABSORPTION... MEETS OR EXCEEDS ASTM C90-75 STANDARDS
 COMPRESSIVE STRENGTH... 3000 PSI APPROXIMATE MINIMUM (UNLESS OTHERWISE SPECIFIED)
 COMPOSITION... HIGH STRENGTH, HIGH DENSITY, "0" SLUMP CONCRETE

UNIT INFORMATION

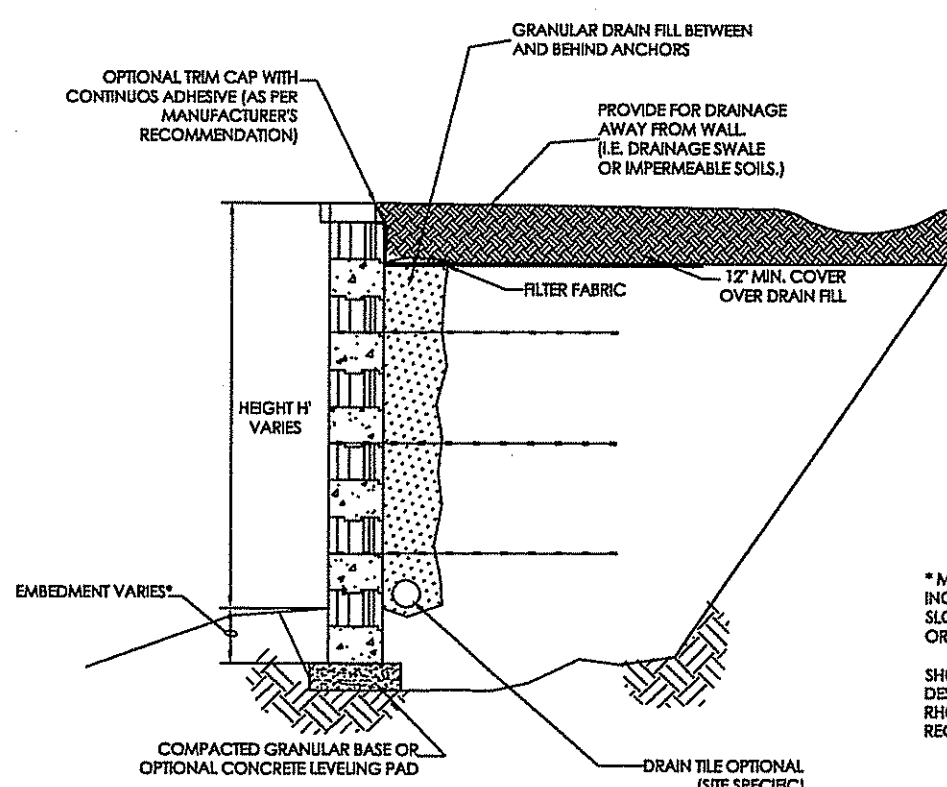
BEVELED CLASSIC UNIT:
 18" BEVELED SPLIT FACE 8" H X 18" W, 78 LBS. APPROX. 1.00 SQ. FT. FACE
 STRAIGHT CLASSIC UNIT:
 18" STRAIGHT SPLIT FACE 8" H X 18" W, 80 LBS. APPROX. 1.00 SQ. FT. FACE
 UNIVERSAL CAP STRAIGHT SPLIT FACE 4" H X 18" W FRONT AND 4" H X 14" W BACK, 54 LBS. APPROX.
 0.50 SQ. FT. FRONT, 0.39 SQ. FT. BACK AVERAGE RUNNING LENGTH IS 16" (SEE INSTALLATION MANUAL)

FACE OPTIONS

FACE PATTERNS BEVELED SPLIT FACE
 STRAIGHT SPLIT FACE
 RUSTIC FACE

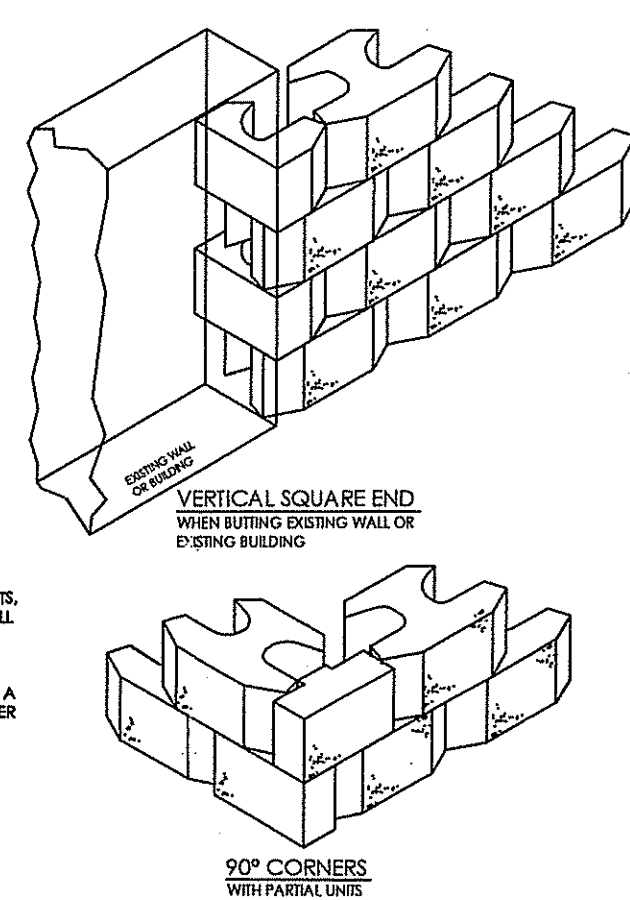
ROCKWOOD CLASSIC 8 VERTICAL

NOT TO SCALE



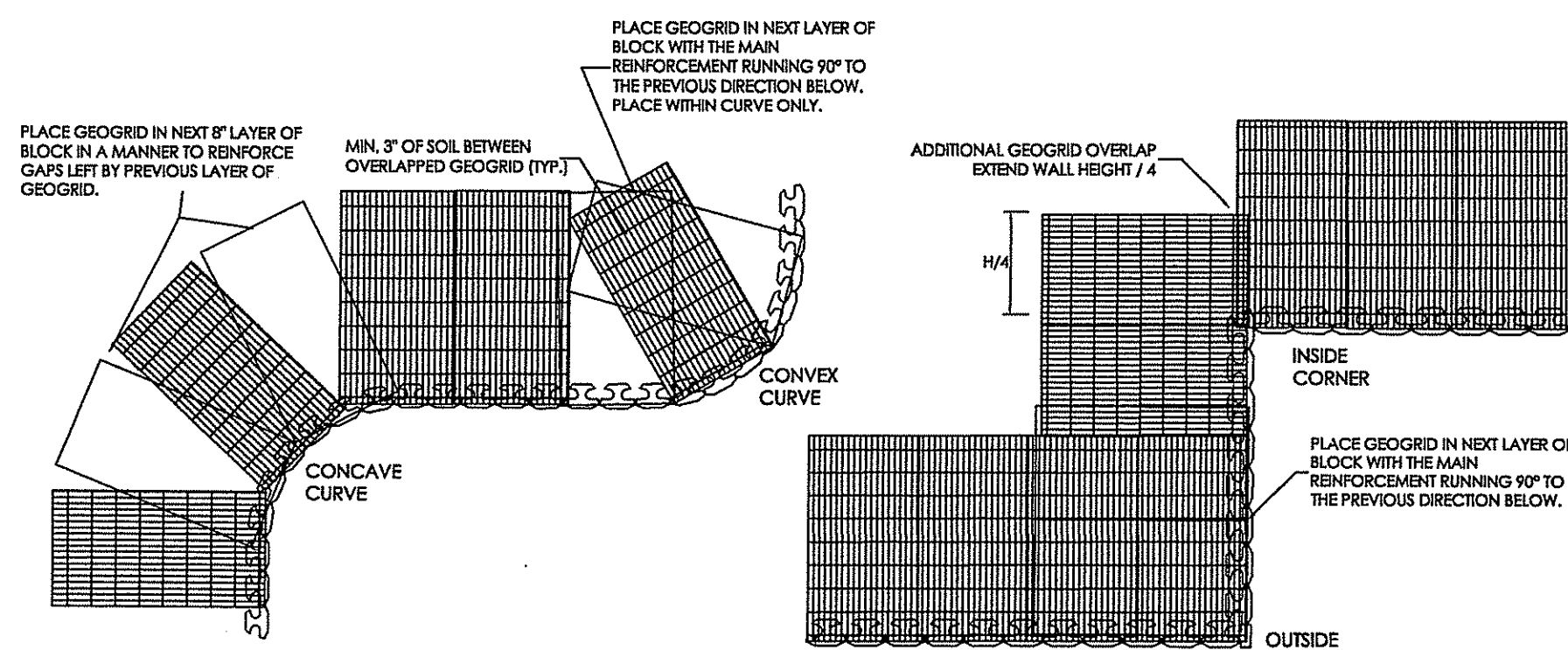
ROCKWOOD TYPICAL SECTION

NOT TO SCALE



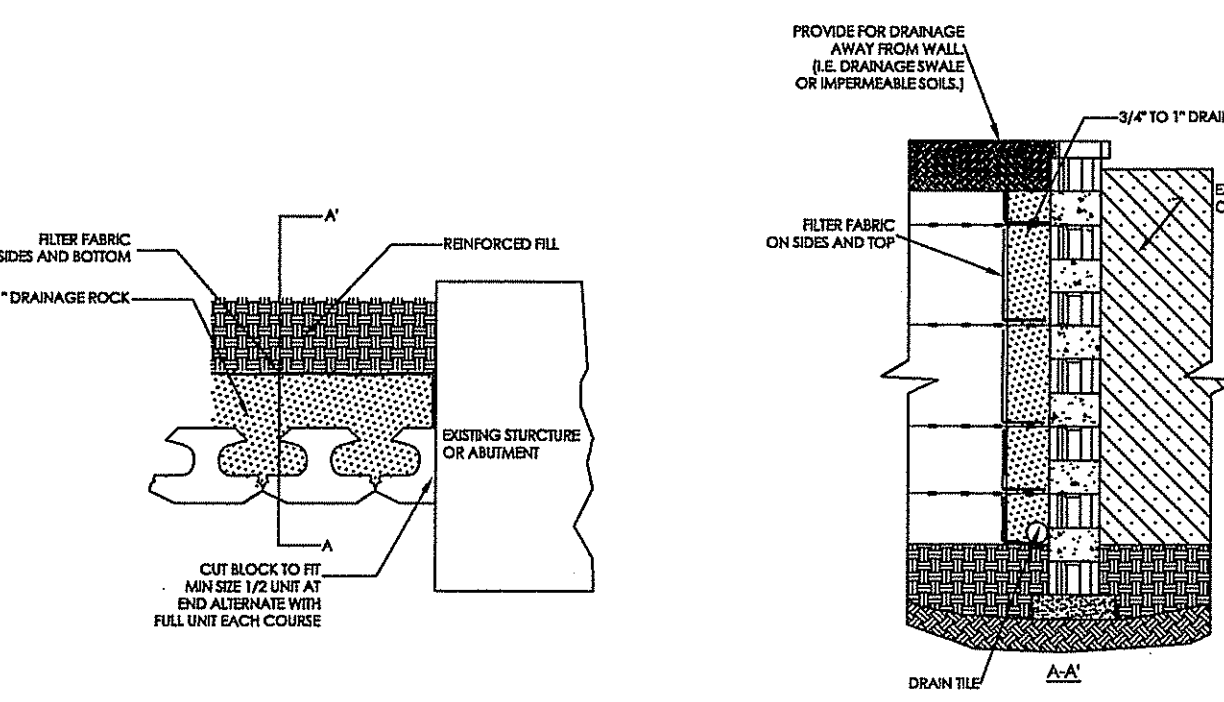
ROCKWOOD STEPS AND CORNERS

NOT TO SCALE



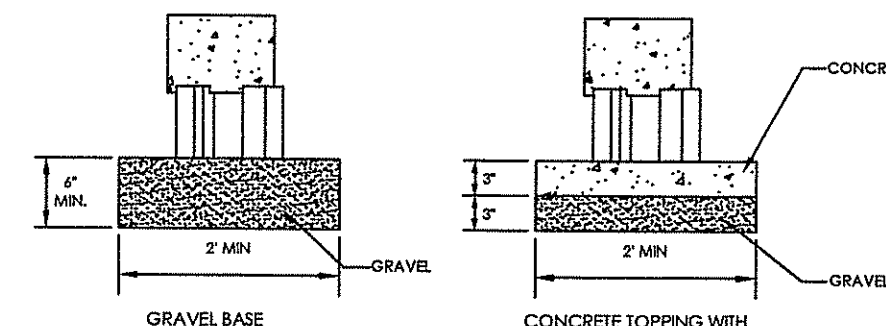
ROCKWOOD GEOGRID DETAILS

NOT TO SCALE



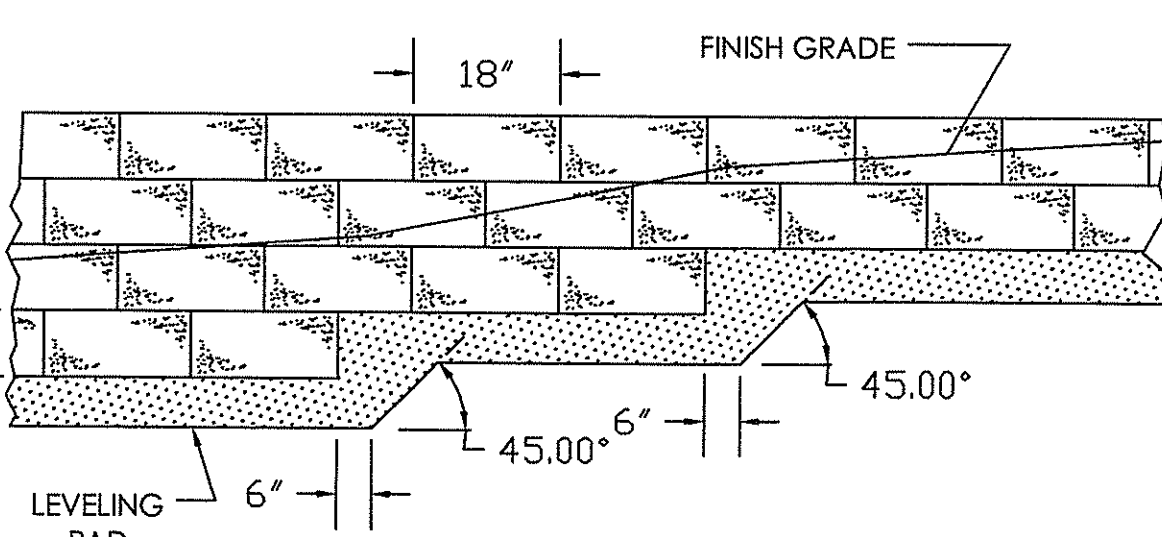
ROCKWOOD WALL ABUTMENT DETAIL

NOT TO SCALE



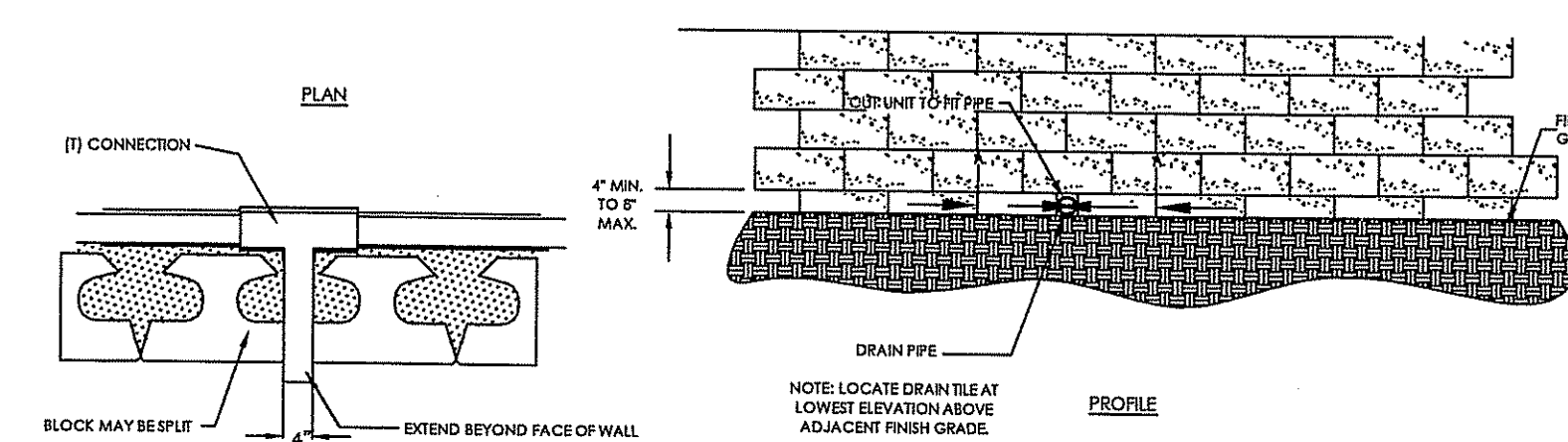
ROCKWOOD LEVELING PAD DETAILS

NOT TO SCALE



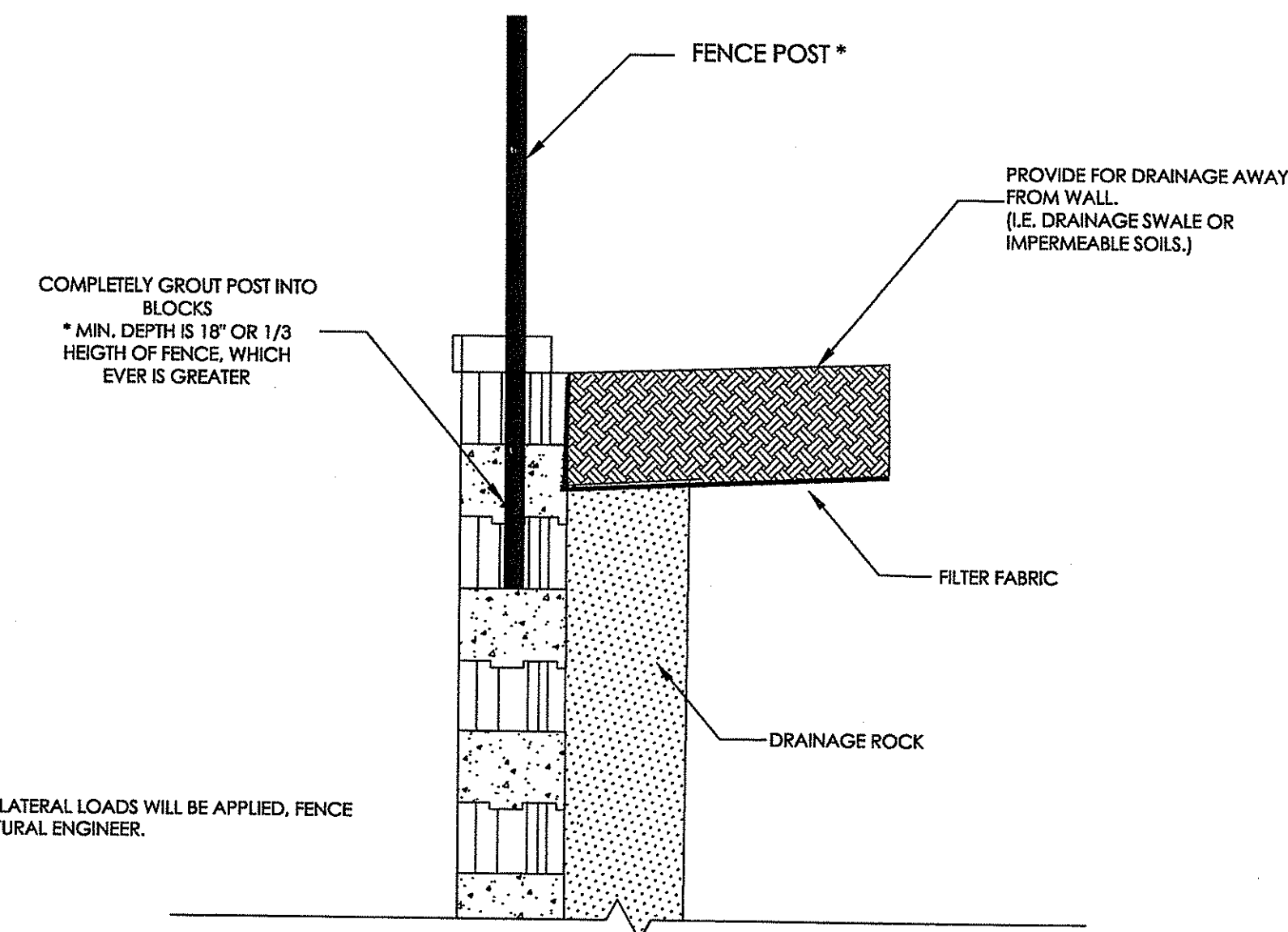
ROCKWOOD LEVELING PAD STEP DETAIL

NOT TO SCALE



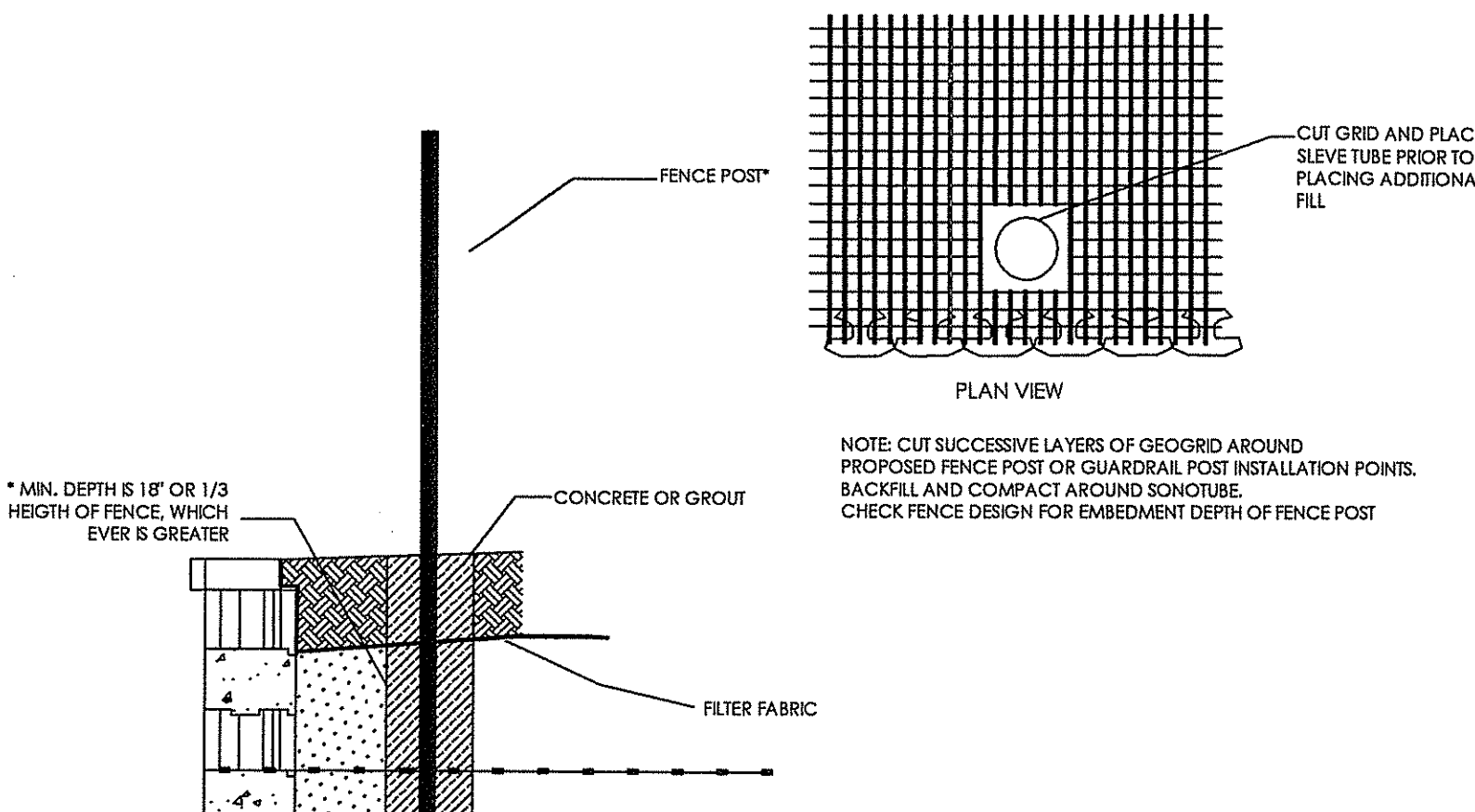
ROCKWOOD DRAIN TILE OUTLET THROUGH WALL

NOT TO SCALE



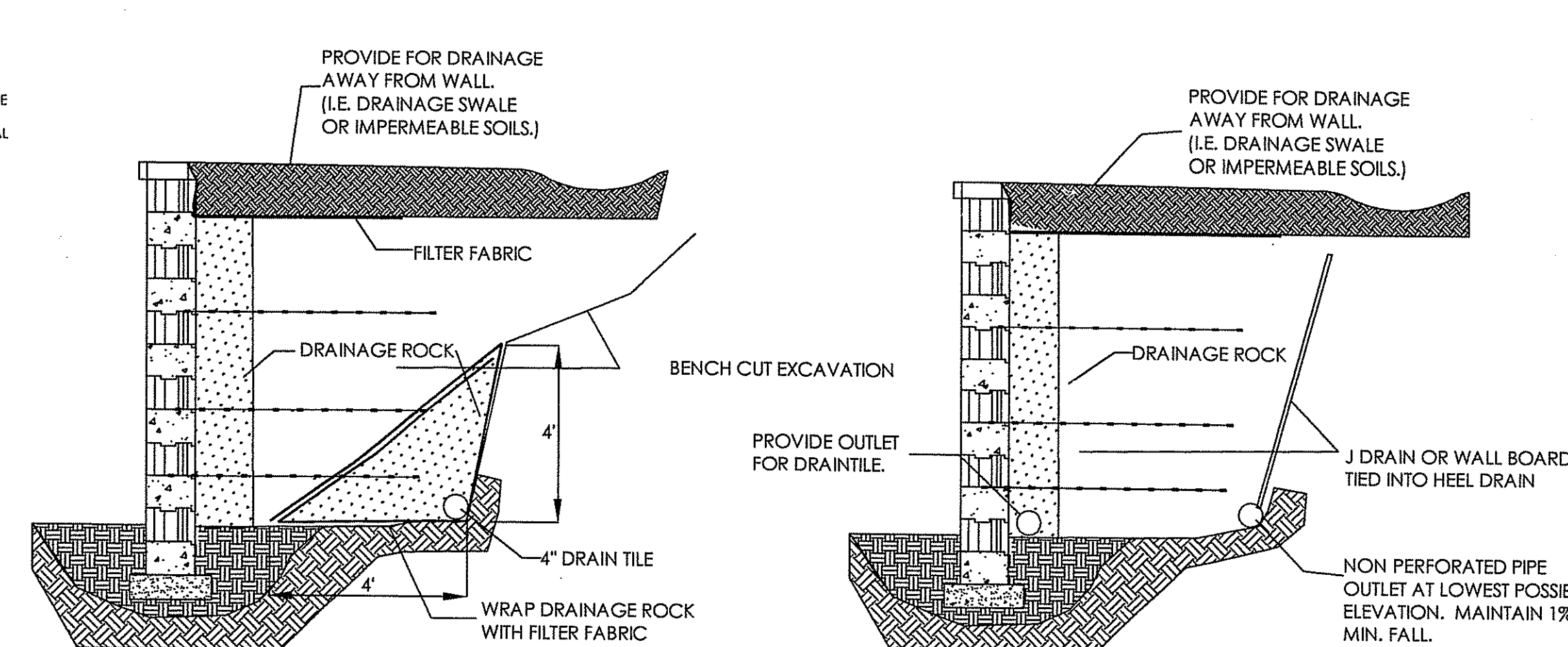
ROCKWOOD FENCE ON TOP OF WALL DETAIL

NOT TO SCALE



ROCKWOOD FENCE NEAR WALL DETAIL

NOT TO SCALE



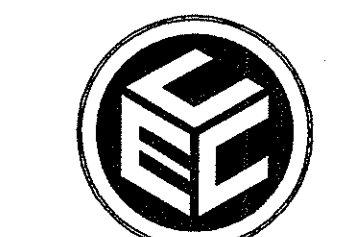
TYPICAL HEEL DRAIN OPTION

TYPICAL J DRAIN/WALL BOARD OPTION

ROCKWOOD DRAINAGE OPTIONS TO REMEDIATE BACK CUT SEEPAGE

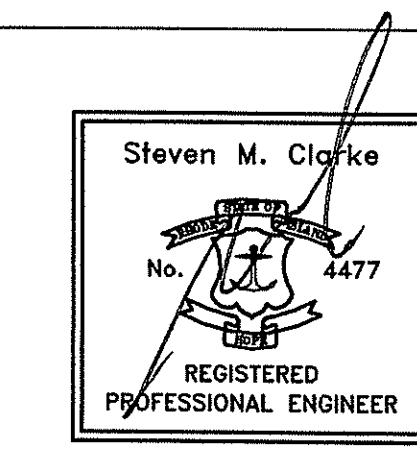
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 PROVIDENCE, RI 02908
 PHONE: (401) 273-6600



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Drawn: **JP**
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Project Name:
THE COTTON SHED
 West Warwick, Rhode Island

Sheet Name:
CONSTRUCTION DETAILS
 Project No.:
07005.00 OCT 1 2007
 Issue Date:
9/26/07
 Sheet No.:
SHEET C-7.8

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