

1605 sht1 Cover Sheet 10-25-07_87.dwg (Disk: Z-1043)

CONSTRUCTION PLANS

FOR

TIRE PROS

ASSESSOR'S PLAT 48, LOT 4C

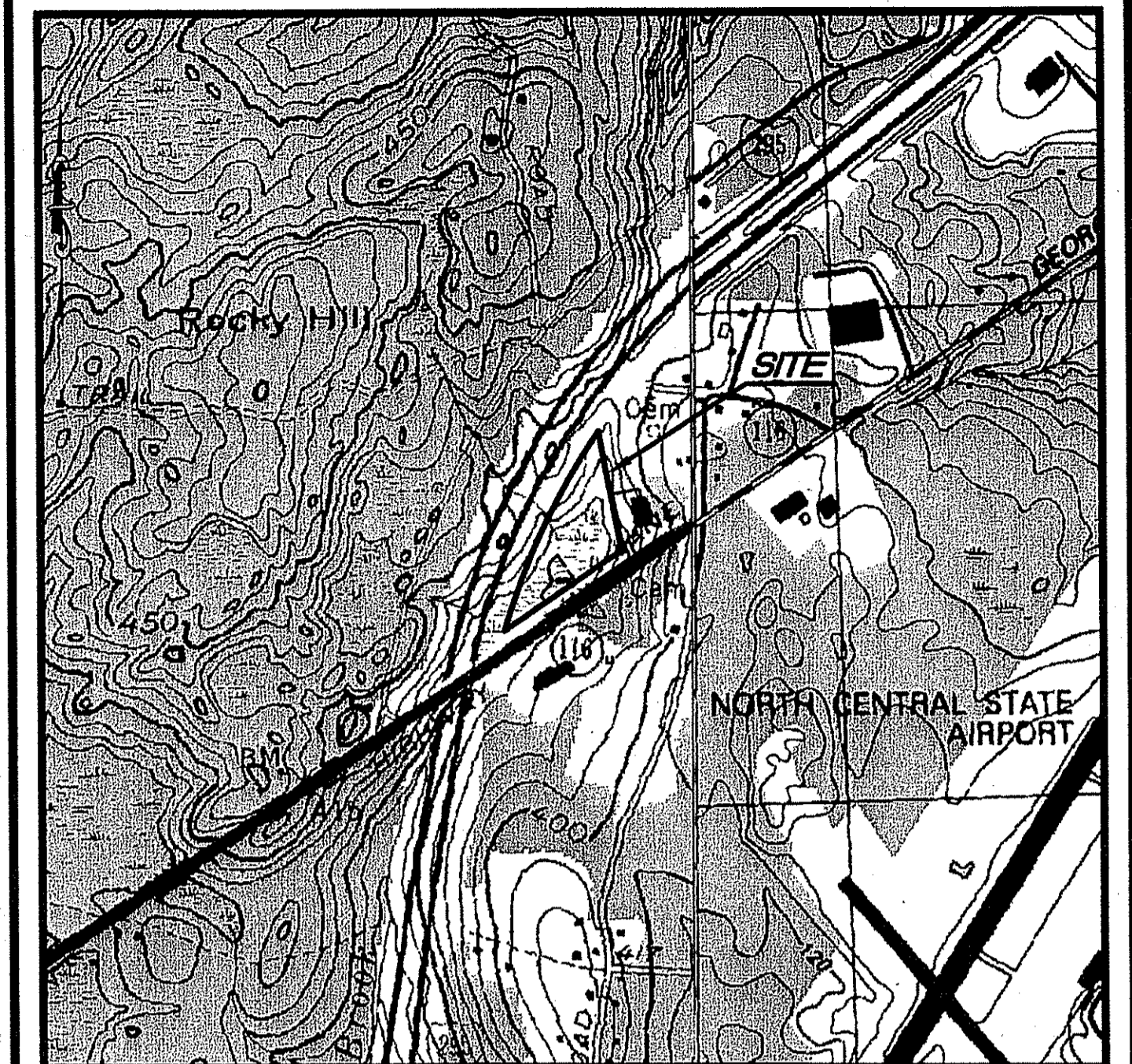
GEORGE WASHINGTON HIGHWAY (ROUTE 116)

SMITHFIELD, RHODE ISLAND

PREPARED FOR

KILDUFF BROTHERS BUILDERS, INC.

FEBRUARY, 2008



LOCATION MAP

SCALE: 1"=1000'

USGS QUADRANGLES GEORGIAVILLE AND PAWTUCKET

TABLE OF CONTENTS

SHEET	DESCRIPTIONS
1	COVER SHEET
2	EXISTING CONDITIONS PLAN
3	SITE LAYOUT PLAN
4	GRADING AND UTILITY PLAN
5	NOTES AND DETAILS
6	DETAILS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED OCT 24 2008 FILE # 08-0103
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Christopher D. Weneck

PREPARED BY

CIVIL ENGINEERS
 JOHN P. CAITO
 141 JAMES P. MURPHY HIGHWAY
 WEST WARWICK, RHODE ISLAND
 02893-9382
 401-615-8600
 fax: 401-615-8606

CAITO
 CORPORATION
 LAND PLANNERS

JOHN P. CAITO
 No. 4398
 REGISTERED
 PROFESSIONAL ENGINEER

OWNER INFORMATION

ALCO PROPERTIES, LLC.
 400 GEORGE WASHINGTON HIGHWAY
 SMITHFIELD, RI 02917

AND

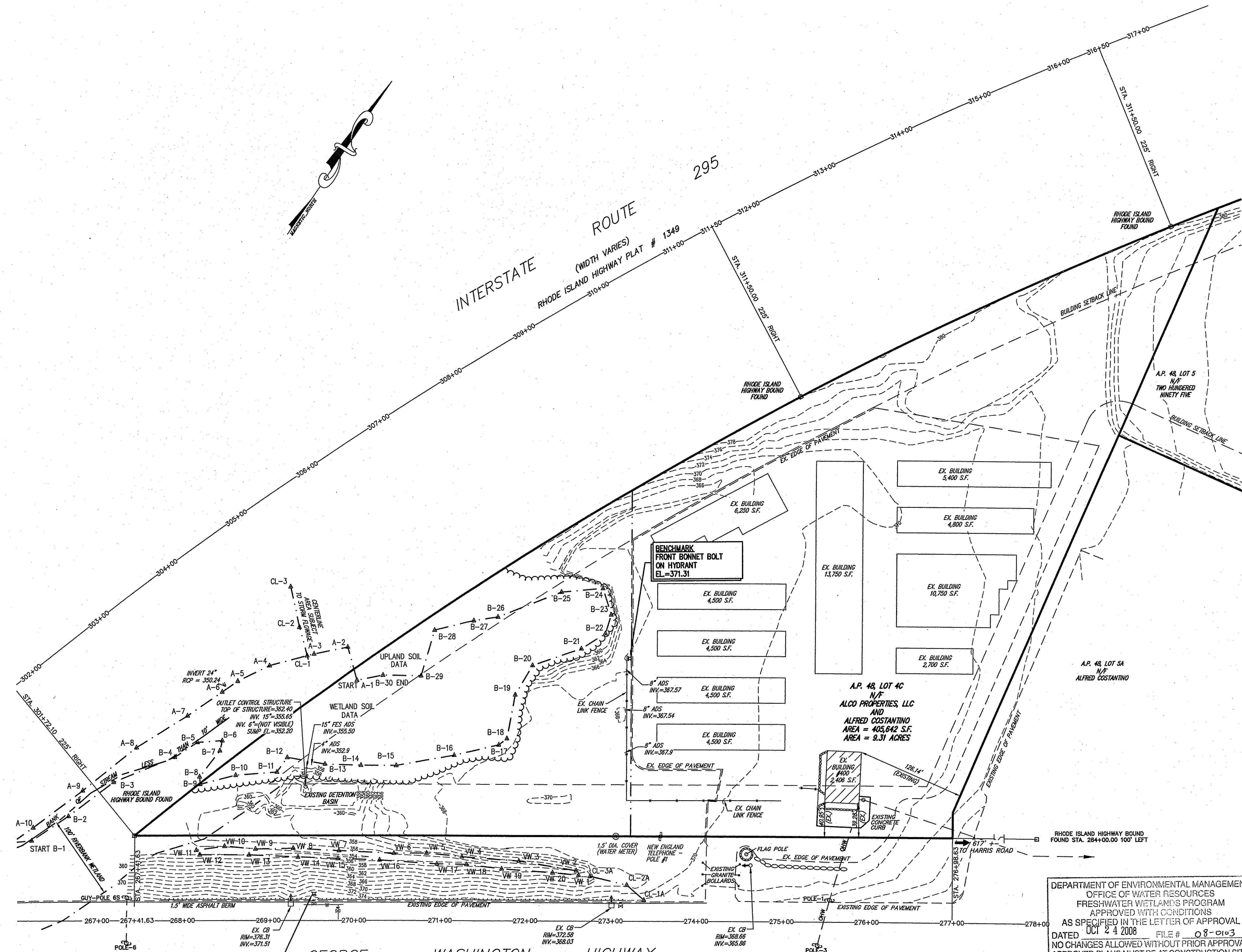
ALFRED COSTANTINO
 34 MACARTHUR DRIVE
 SMITHFIELD, RI 02917

NO.	DATE	SHEET	REVISION
1	2/18/08	4	FIRE MARSHAL COMMENTS
2	4/1/08	1,2,3,4,5 & 6	TOWN COMMENTS
3	4/14/08	5	SANITARY SEWER NOTES
4	4/23/08	4	TOWN COMMENTS
5	6/18/08	1,3,4 & 6	RIDOT COMMENTS
6	7/7/08	1,3 & 4	RIDOT COMMENTS
7	9/30/08	1,2,3,4,5 & 6	RIDEM COMMENTS

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1605.sh2 Existing Conditions 10-25-07_R2.dwg (DISK: Z-1043)

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ZONING MATRIX: A.P. 48, LOT 4-C

PERMITTED USES BY ZONE TABLE #3.1	HC	
	REQUIRED	PROPOSED
MINIMUM LOT AREA	60,000 S.F.	405,642 S.F.
MINIMUM LOT FRONTAGE	300 FT.	957 FT.
MAXIMUM LOT COVERAGE STRUCTURE	30%	18% %
FRONT YARD SETBACK	60 FT.	60 FT.
SIDE YARD SETBACK	40 FT.	>40 FT.
REAR YARD SETBACK	50 FT.	>50 FT.
HEIGHT MAIN STRUCTURE	48 FT.	< 48 FT.

LEGEND:

- EXISTING PROPERTY LINE (PROJECT AREA)
- EXISTING LOT LINE
- - - EXISTING BUILDING SETBACK LINE
- - - EXISTING EDGE OF PAVEMENT
- EXISTING RHODE ISLAND HIGHWAY BOUND (RIHB)
- 3144+00— EXISTING RHODE ISLAND HIGHWAY PLAT CENTERLINE
- EXISTING IRON PIPE
- ⊕ EXISTING HYDRANT
- EXISTING CATCH BASIN
- ⊕ EXISTING WATER VALVE
- ⊕ POLE-3
- OHW — OVER HEAD WIRE
- EXISTING CHAIN LINK FENCE
- WETLAND EDGE
- STREAM BANK LESS THAN 10 FEET WIDE
- 100' RIVERBANK WETLAND
- 50' PERIMETER WETLAND
- EXISTING TREE LINE
- - -380— EXISTING MAJOR CONTOUR
- - -381— EXISTING MINOR CONTOUR
- - - EXISTING FORCE MAIN
- - - PROJECT LIMITS

FLOOD HAZARD:

THE FOLLOWING FLOOD ZONE DATA IS AS SHOWN ON THE REFERENCED FLOOD INSURANCE RATE MAP PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY: SMITHFIELD - ZONE X - AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN COMMUNITY PANEL NUMBER 440025-0002-B MAP REVISED: MARCH 4, 1991

WATERSHED NOTE:

THE ENTIRE SITE IS LOCATED WITHIN THE WOONASQUATUCKET WATERSHED

NOTE:

PAXTON AND WOODBRIDGE SOILS ARE LISTED AS SUITABLE FOR COMMUNITY DEVELOPMENT AS DESCRIBED IN THE "SOIL SURVEY OF RHODE ISLAND", US DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE IN COOPERATION WITH RHODE ISLAND AGRICULTURE EXPERIMENT STATION, JULY 1981

REFERENCE:

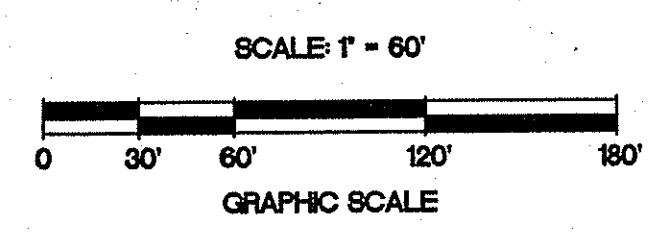
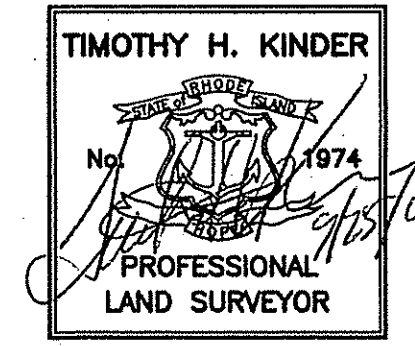
- "PLAN OF LAND - REALIGNMENT FOR ALFRED CONSTANTINO & OTHERS 34 MACARTHUR DR., ESMOND, RI 02917 ON GEO. WASH. HWY. & ROCKY HILL RD. SMITHFIELD, R.I. TITLE, ADMINISTRATIVE SUBDIVISION, DIVISION / MERGER (3 EXIST. LOTS), ASSESS. PLAT 48 LOTS 4C, 5 & 5A (TOTAL 15.15 AC) DATE MAY 99 SCALE: 1" = 60' DRAWING NO. R-1 OF 1." PREPARED BY: DAVID E. PROVONSIL, P.E. AND PETER V. CIPOLLA, JR. P.L.S. RECORDED ON JULY 13, 1999 IN PLAT BOOK 5, PAGE 2.
- "SMITHFIELD, RI EXISTING CONDITIONS PLAN FOR ALFRED CONSTANTINO, CLASS IV SURVEY OF A.P. 48 LOT 5, CLASS I SURVEY OF A.P. 48 LOT 4C, ROUTES 116, 295 & ROCKY HILL ROAD BY MARSH SURVEYING INC. 840 SMITHFIELD AVE. LINCOLN, RI, ZONE - HC & PC, MAY 3, 2002" SCALE: 1 INCH = 60 FT.
- STATE REGULATED FRESH WATER WETLANDS ARE FLAGGED IN THE FIELD BY NATURAL RESOURCE SERVICES, INC. AND SURVEY LOCATED BY MARSH SURVEYING, INC.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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CERTIFICATION:

THIS PLAN IS SUBSTANTIALLY CORRECT IN ACCORDANCE WITH A CLASS IV STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS PLAN IS NOT TO BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY AND IS SUBJECT TO SUCH CHANGES AS AN ACCURATE BOUNDARY SURVEY MAY DISCLOSE.

BY *Timothy H. Kinder*
PROFESSIONAL LAND SURVEYOR DATE 7/25/08



NO.	DATE	REVISION
1	4/7/08	TOWN COMMENTS
2	9/25/08	REBEL COMMENTS

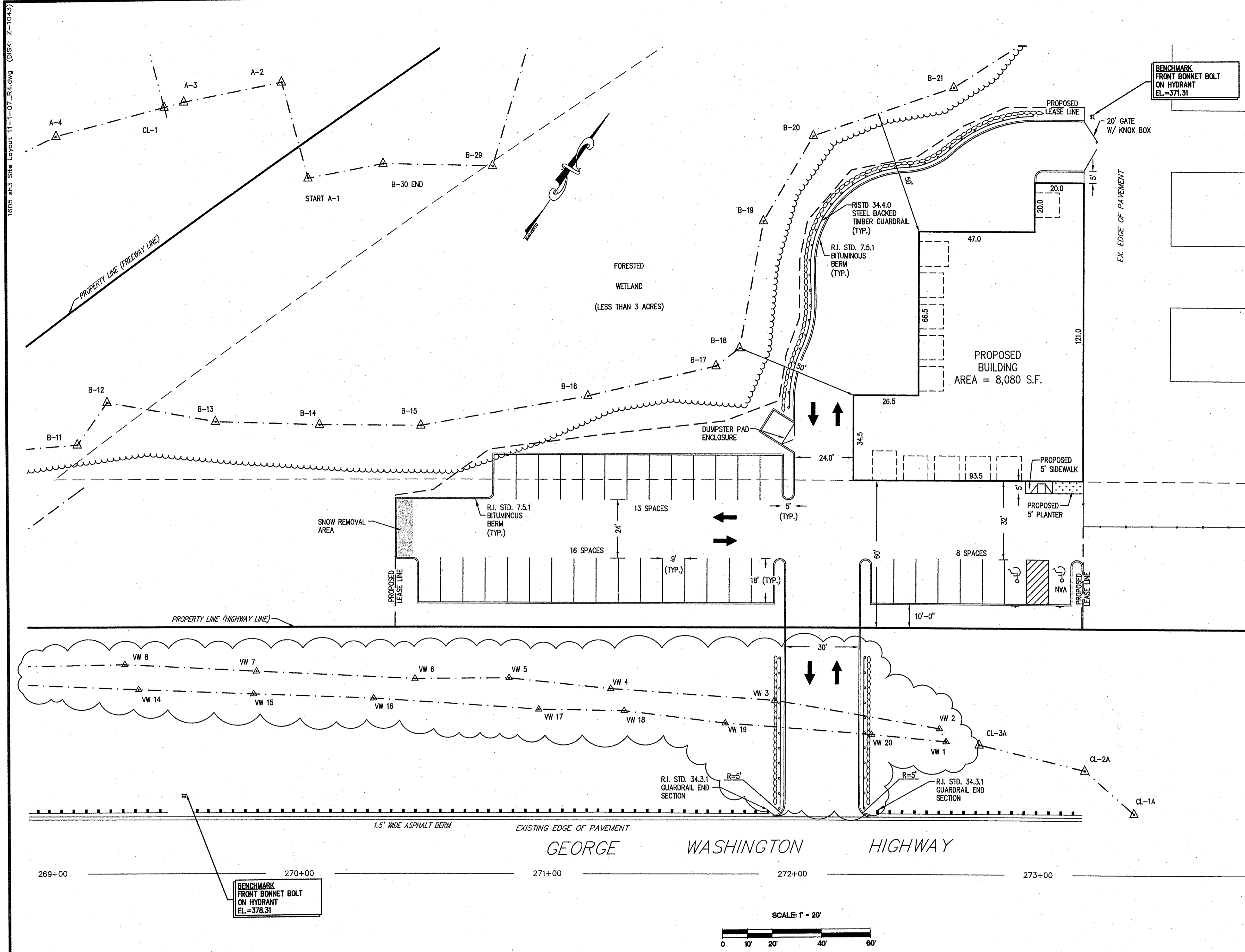
CIVIL ENGINEERS
JOHN P. ALTO CORPORATION
141 JAMES P. ALBURY HIGHWAY
WEST WARWICK, RHODE ISLAND
08893-9382
401-615-8600
FAX: 401-615-8605

LAND PLANNERS
PROJECT NO: 6051605
DATE: DECEMBER 2007
SCALE: 1" = 60'
DESIGNED BY: J.C.H.
DRAWN BY: C.M.W., M.T.M.
CHECKED BY: J.P.C.

EXISTING CONDITIONS PLAN
TIRE PROS
ASSESSOR'S PLAT 48, LOT 4C
GEORGE WASHINGTON HIGHWAY (ROUTE 116)
SMITHFIELD RHODE ISLAND
PREPARED FOR
KILDUFF BROTHERS BUILDERS, INC.

DRAWING NUMBER
2
SHEET 2 OF 6

1605 and 3 Site layout 11-1-07_R1.dwg (DISK: Z-1043)



PARKING MATRIX: HIGHWAY COMMERCIAL ZONE (HC)

ARTICLE 7 - SECTION 4B(16)	REQUIRED	PROPOSED
RETAIL, BUSINESS AND SERVICE ESTABLISHMENTS		
4.5 SPACE PER 1000 SQUARE FEET OF GROSS FLOOR AREA (4.5 * 8,08 = 37)	37 Spaces	37 Spaces

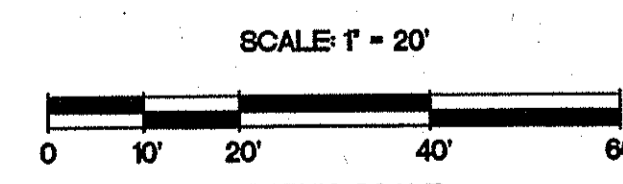
- LEGEND:**
- EXISTING PROPERTY LINE
 - EXISTING LOT LINE
 - - - BUILDING SETBACK LINE
 - - - 50' PERIMETER WETLAND
 - - - EXISTING EDGE OF PAVEMENT
 - EXISTING RHODE ISLAND HIGHWAY BOUND (RIHB)
 - - - 314+00 EXISTING RHODE ISLAND HIGHWAY PLAT CENTERLINE
 - EXISTING IRON PIPE
 - ⊕ EXISTING HYDRANT
 - - - EXISTING CHAIN LINK FENCE
 - - - EXISTING GUARDRAIL
 - - - WETLAND EDGE AND FLAG LOCATION
 - - - AREA SUBJECT TO STORM FLOW AND FLAG LOCATION
 - - - VEGETATED WETLAND EDGE AND FLAG LOCATION
 - - - PROPOSED GUARDRAIL
 - - - PROPOSED EDGE OF PAVEMENT
 - - - PROPOSED BUILDING
 - - - PROPOSED LEASE LINE (PROJECT AREA)
 - - - EXISTING TREE LINE
 - - - PROPOSED RETAINING WALL
 - TRAFFIC FLOW ARROW
 - ♿ HANDICAP RAMP

- REFERENCE:**
- "PLAN OF LAND - REALIGNMENT FOR ALFRED CONSTANTINO & OTHERS 34 MACARTHUR DR., ESMOND, RI 02917 ON GEO. WASH. HWY. & ROCKY HILL RD. SMITHFIELD, R.I. TITLE, ADMINISTRATIVE SUBDIVISION, DIVISION / MERGER (3 EXIST. LOTS), ASSESS. PLAT 48 LOTS 4C, 5 & 5A (TOTAL 15.15 AC) DATE MAY 99 SCALE: 1" = 60' DRAWING NO. R-1 OF 1." PREPARED BY: DAVID E. PROVONSIL, P.E. AND PETER V. CIPOLLA, JR. P.L.S. RECORDED ON JULY 13, 1999 IN PLAT BOOK 5, PAGE 2.
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 - STATE REGULATED FRESH WATER WETLANDS ARE FLAGGED IN THE FIELD BY NATURAL RESOURCE SERVICES, INC. AND SURVEY LOCATED BY MARSH SURVEYING, INC.. REFERENCE RIDEM FWW PERMIT NO. 02-0430, DATED MARCH 2, 2004.

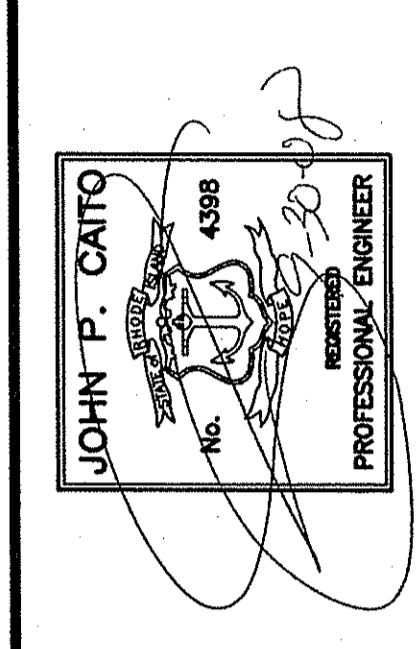
NOTE:
OWNER TO PROVIDE DIGITAL SUBMISSION OF FINAL AS-BUILT DRAWINGS TO THE TOWN.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Martin D. Wenzel



NO.	DATE	REVISION
1	4/7/08	TOWN COMMENTS
2	6/16/08	REVISIONS
3	7/7/08	REVISIONS
4	9/30/08	REVISIONS



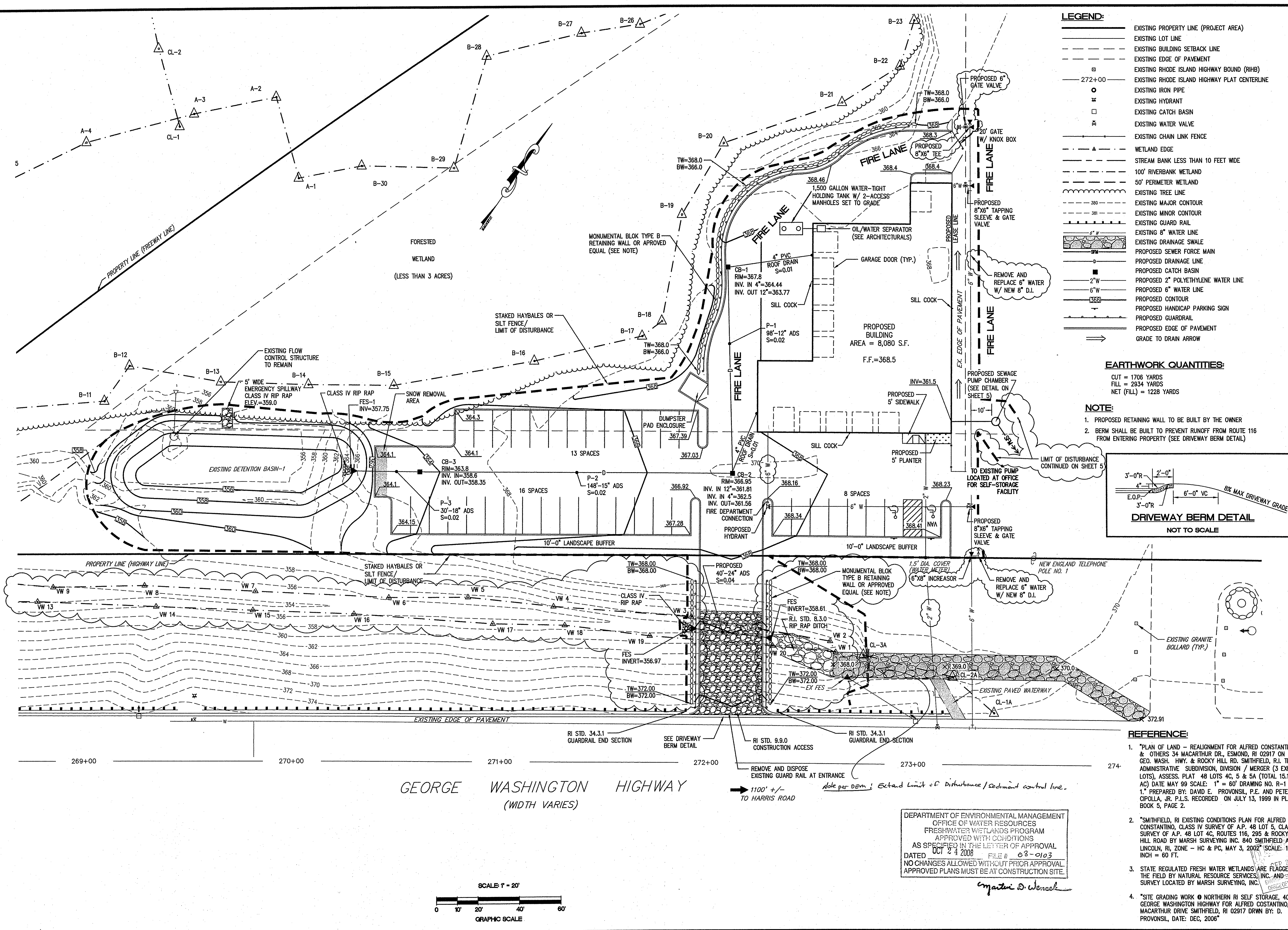
PROJECT NO: 6051605
DATE: FEBRUARY, 2008
SCALE: 1" = 20'
DESIGNED BY: J.C.H.
DRAWN BY: C.M.W., M.T.M.
CHECKED BY: J.P.C.

SITE LAYOUT PLAN
TIFE PROS
ASSESSOR'S PLAT 48, LOT 4C
GEORGE WASHINGTON HIGHWAY (ROUTE 116)
SMITHFIELD, RHODE ISLAND
PREPARED FOR
KILDUFF BROTHERS BUILDERS, INC.

DRAWING NUMBER
3
SHEET 3 OF 6

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1605 sht4 Grading and Utility Plan 12-20-07-rb.dwg (DISK: Z-1043)

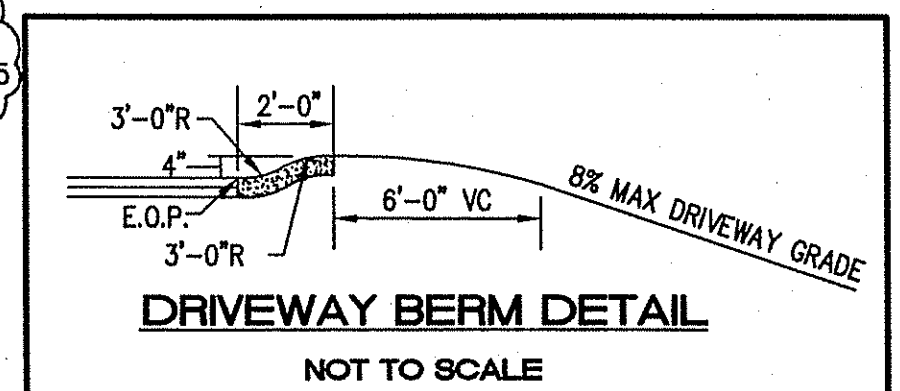


LEGEND:

---	EXISTING PROPERTY LINE (PROJECT AREA)
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---	EXISTING RHODE ISLAND HIGHWAY BOUND (RIHB)
---	EXISTING RHODE ISLAND HIGHWAY PLAT CENTERLINE
○	EXISTING IRON PIPE
⊕	EXISTING HYDRANT
⊞	EXISTING CATCH BASIN
⊞	EXISTING WATER VALVE
---	EXISTING CHAIN LINK FENCE
---	WETLAND EDGE
---	STREAM BANK LESS THAN 10 FEET WIDE
---	100' RIVERBANK WETLAND
---	50' PERIMETER WETLAND
---	EXISTING TREE LINE
---	EXISTING MAJOR CONTOUR
---	EXISTING MINOR CONTOUR
---	EXISTING GUARD RAIL
---	EXISTING 8" WATER LINE
---	EXISTING DRAINAGE SWALE
---	PROPOSED SEWER FORCE MAIN
---	PROPOSED DRAINAGE LINE
---	PROPOSED CATCH BASIN
---	PROPOSED 2" POLYETHYLENE WATER LINE
---	PROPOSED 6" WATER LINE
---	PROPOSED CONTOUR
---	PROPOSED HANDICAP PARKING SIGN
---	PROPOSED GUARDRAIL
---	PROPOSED EDGE OF PAVEMENT
---	GRADE TO DRAIN ARROW

EARTHWORK QUANTITIES:
CUT = 1706 YARDS
FILL = 2934 YARDS
NET (FILL) = 1228 YARDS

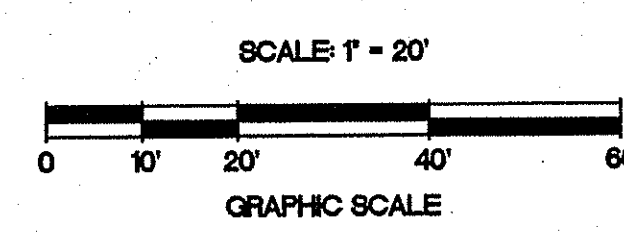
- NOTE:**
- PROPOSED RETAINING WALL TO BE BUILT BY THE OWNER
 - BERM SHALL BE BUILT TO PREVENT RUNOFF FROM ROUTE 116 FROM ENTERING PROPERTY (SEE DRIVEWAY BERM DETAIL)



- REFERENCE:**
- "PLAN OF LAND - REALIGNMENT FOR ALFRED COSTANTINO & OTHERS 34 MACARTHUR DR., ESOMOND, RI 02917 ON GEO. WASH. HWY. & ROCKY HILL RD. SMITHFIELD, R.I. TITLE ADMINISTRATIVE SUBDIVISION, DIVISION / MERGER (3 EXIST. LOTS), ASSESS. PLAT 48 LOTS 4C, 5 & 5A (TOTAL 15.15 AC) DATE MAY 99 SCALE: 1" = 60' DRAWING NO. R-1 OF 1." PREPARED BY: DAVID E. PROVONSIL, P.E. AND PETER V. OPOLLA, JR. P.L.S. RECORDED ON JULY 13, 1999 IN PLAT BOOK 5, PAGE 2.
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 - STATE REGULATED FRESH WATER WETLANDS ARE FLAGGED IN THE FIELD BY NATURAL RESOURCE SERVICES, INC. AND SITE-LOGS SURVEY LOCATED BY MARSH SURVEYING, INC.
 - "SITE GRADING WORK @ NORTHERN RI SELF STORAGE, 400 GEORGE WASHINGTON HIGHWAY FOR ALFRED COSTANTINO, 34 MACARTHUR DRIVE SMITHFIELD, RI 02917 DRWN BY: D. PROVONSIL, DATE: DEC, 2006"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Martin D. Wenzel



NO.	DATE	REVISION
1	2/18/08	FIRE MARSHAL COMMENTS
2	4/7/08	TOWN COMMENTS
3	4/23/08	TOWN COMMENTS
4	6/18/08	ROOT COMMENTS
5	7/7/08	ROOT COMMENTS
6	9/7/08	REBEL COMMENTS

JOHN P. CAITO
REGISTERED PROFESSIONAL ENGINEER
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CAITO CORPORATION
LAND PLANNERS

PROJECT NO: 6051605
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SCALE: 1" = 20'
DESIGNED BY: J.C.H.
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GRADING AND UTILITY PLAN
TIRE PROS
ASSESSOR'S PLAT 48, LOT 4C
GEORGE WASHINGTON HIGHWAY (ROUTE 116)
SMITHFIELD, RHODE ISLAND
PREPARED FOR
KILDUFF BROTHERS BUILDERS, INC.

DRAWING NUMBER
4
SHEET 4 OF 6

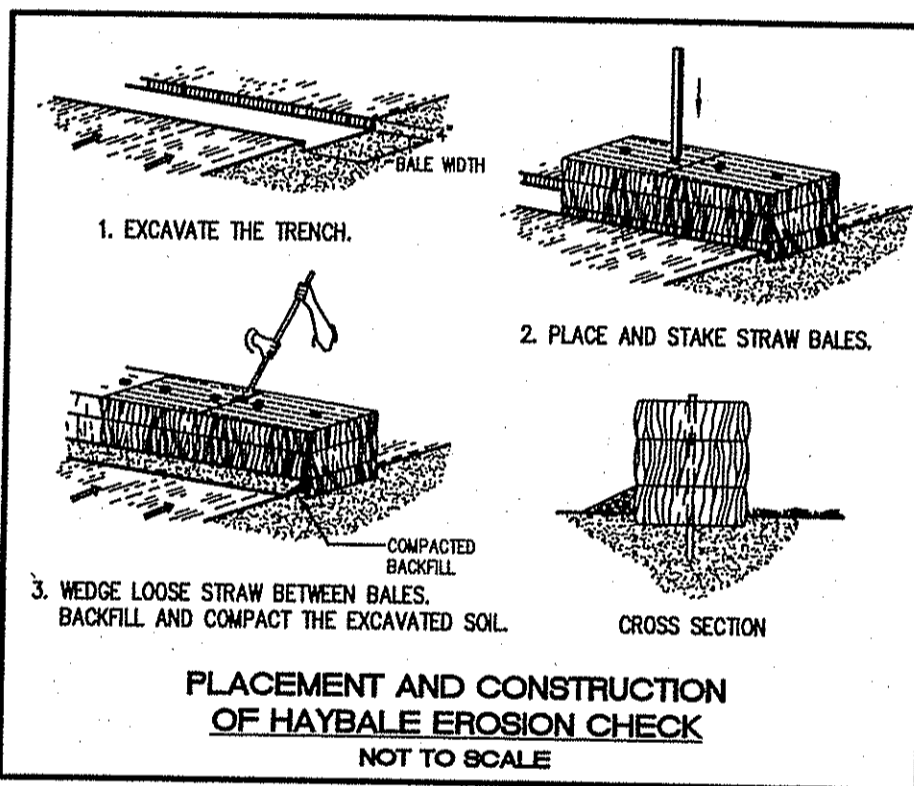
GENERAL NOTES:

- THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. THE 2004 REVISION OF THE STANDARD SPECIFICATIONS MAY BE OBTAINED AT THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION, DIVISION OF PUBLIC WORKS. IN ADDITION, THE TOWN OF SMITHFIELD STANDARD SPECIFICATIONS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO.
- ALL REQUIRED SITE IMPROVEMENTS SHALL BE INSPECTED BY THE TOWN ENGINEER TO ENSURE SATISFACTORY COMPLETION. IN NO CASE SHALL THE INSTALLATION OF ANY IMPROVEMENTS BE STARTED UNTIL PRIOR NOTIFICATION IS GIVEN TO THE TOWN ENGINEER. AT LEAST A 48-HOUR NOTICE SHALL BE GIVEN TO THE TOWN ENGINEER PRIOR TO ANY SUCH START OF CONSTRUCTION. A FINAL INSPECTION OF ALL SITE IMPROVEMENTS, UTILITIES AND GRADING WILL BE MADE TO DETERMINE WHETHER THE WORK IS SATISFACTORY AND IN SUBSTANTIAL AGREEMENT WITH THE APPROVED FINAL CONSTRUCTION DRAWINGS AND THE TOWN SPECIFICATIONS.
- LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL CHECK AND VERIFY LOCATIONS OF ALL EXISTING UTILITIES BOTH UNDERGROUND AND OVERHEAD. ANY DAMAGE TO EXISTING UTILITIES AS SHOWN OR NOT SHOWN ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS OF SUCH DAMAGE SHALL BE BORNE BY THE CONTRACTOR. NO EXCAVATION SHALL BE DONE UNTIL ALL INVOLVED UTILITY COMPANIES ARE NOTIFIED 48-HOURS IN ADVANCE. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY DIG-SAFE (1-888-344-7233) A MINIMUM OF 48 WORKING HOURS, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO THE START OF ANY EXCAVATION AND/OR BLASTING WORK. THE NAME OF THE COMPANY PERFORMING THE EXCAVATION AND/OR BLASTING WORK MUST BE SUPPLIED TO DIG-SAFE, IF IT IS DIFFERENT FROM THE CALLER.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY THE STATE OF RHODE ISLAND, FEDERAL GOVERNMENT, NARRAGANSETT BAY COMMISSION, AND THE TOWN OF SMITHFIELD PRIOR TO COMMENCING ANY WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS. IN ACCORDANCE WITH THE TOWN OF SMITHFIELD SOIL EROSION AND SEDIMENT CONTROL ORDINANCE.
- UNLESS OTHERWISE SPECIFIED, ALL STORM DRAINS SHALL BE ADS, N-12 HDPE PIPE.
- THE ENTIRE PROPERTY IS LOCATED WITHIN "ZONE X", AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD PLAIN.

"NATIONAL FLOOD INSURANCE PROGRAM FIRM FLOOD INSURANCE RATE MAP TOWN OF SMITHFIELD, RHODE ISLAND PROVIDENCE COUNTY PANEL 2 OF 9 COMMUNITY-PANEL NUMBER 440025 0002 B MAP DATED MARCH 4, 1991; EMERGENCY MANAGEMENT AGENCY".
- ALL MATERIAL FOR FILL SHALL BE CLEAN AND FREE OF MATTER WHICH COULD POLLUTE ANY DOWNSTREAM WATERCOURSE.
- FILL MATERIAL SHALL BE COMPACTED IN ONE FOOT (MAXIMUM) LIFTS TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D-1557 (MODIFIED PROCTOR TEST).
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN STRICT CONFORMANCE WITH THE MANUFACTURERS SPECIFICATIONS AND APPROVED SHOP DRAWINGS.
- WORK SHOWN ON THE PLANS FOR WHICH THERE ARE NO PARTICULAR DETAILS OR SPECIFICATIONS DOES NOT RELIEVE THE CONTRACTOR FROM FINISHING AND INSTALLING THE WORK. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE CONTRACT DOCUMENTS AND PLANS AND INSPECT THE SITE, AND THE BID PRICE SHALL INCLUDE ALL SERVICES AND MATERIALS AS NECESSARY TO COMPLETE THE PROJECT. ANY CHANGES TO THE PROJECT OR THE INSTALLATION OF AN ITEM OF WHICH NO PARTICULAR DETAIL OR SPECIFICATION WAS PROVIDED MUST BE REVIEWED BY AND ACCEPTED BY THE ENGINEER.
- ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES 2003 INCLUDING ALL REVISIONS.

MAINTENANCE SCHEDULE:

- INSPECTION OF THE BASIN AND ALL INLET AND OUTLET STRUCTURES SHOULD BE PERFORMED AT LEAST ON AN ANNUAL BASIS, PREFERABLY DURING A STORM EVENT TO INSPECT FOR PROPER FUNCTIONING OF THE FACILITY.
- GRASSES MUST BE PLANTED AROUND AND WITHIN THE BASIN IMMEDIATELY FOLLOWING CONSTRUCTION TO STABILIZE THE SLOPES AND PREVENT EROSION. TREE AND SHRUBS SHOULD NOT BE PLANTED ON ANY IMPOUNDING EMBANKMENTS, TO PREVENT POTENTIAL SUBSURFACE DISTURBANCE AND POSSIBLE FAILURE OF THE STRUCTURE.
- SEDIMENTS SHOULD BE REMOVED FROM DRAINAGE STRUCTURES AND THE DETENTION OF THE STRUCTURE. BASIN IMMEDIATELY FOLLOWING SITE STABILIZATION AND DURING THE FIRST (INITIAL) YEAR OF OPERATION AND EVERY YEAR THEREAFTER. MORE FREQUENT REMOVALS WILL BE NECESSARY IF THE SEDIMENT STORAGE CAPACITY OF THE BASIN IS EXCEEDED. *Note per Dept. Every two (2) years.*
- THE GRASSED AREAS OF THE BASIN SHOULD BE INSPECTED AT LEAST TWICE PER YEAR TO CHECK FOR EROSION PROBLEMS. PROBLEM AREAS SHOULD BE RESEED IMMEDIATELY TO STABILIZE EXPOSED SOILS, THEREBY PREVENTING EROSION AND POTENTIAL CLOGGING OF OUTFLOW DEVICES.
- SIDE SLOPES AND EMBANKMENTS OF THE BASIN SHOULD BE MOWED AT LEAST ONCE DURING THE GROWING SEASON (PREFERABLY AFTER AUGUST 15TH), TO PREVENT UNWANTED WOODY GROWTH. MOWING CAN BE MORE FREQUENT IF A MORE GROOMED APPEARANCE IS DESIRED AND THE BASIN IS NOT MANAGED FOR WILDLIFE HABITAT. ALL TRASH AND LITTER SHALL BE REMOVED FROM THE BASINS DURING MOWING.
- ALL COSTS INCURRED FOR MAINTENANCE, CLEANING, AND INSPECTION ARE THE RESPONSIBILITY OF THE PROPERTY OWNER AND/OR RESPONSIBLE PARTY. IN CERTAIN CASES, THE APPROPRIATE DEM PROGRAM MAY REQUIRE DOCUMENTATION OF MAINTENANCE.
- ANY INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE STORMWATER DISPOSAL SYSTEM REQUIRES IMMEDIATE NOTIFICATION OF THE DEM OIL POLLUTION CONTROL PROGRAM AT 222-2284, AS PER OIL POLLUTION CONTROL REGULATIONS. DURING NON-WORKING HOURS, NOTIFICATION OF SPILLS CAN BE MADE TO THE DEM DIVISION OF ENFORCEMENT AT 222-3070, THE 24-HOUR EMERGENCY RESPONSE PHONE NUMBER.
- ALL TRASH, LITTER AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER FACILITY INCLUDING INLET AND OUTLET STRUCTURES. THIS MUST BE ACCOMPLISHED AT LEAST TWICE PER YEAR, PREFERABLY SPRING AND FALL. INSPECTIONS SHALL BE PERFORMED SEVERAL TIMES WITHIN THE FIRST SIX MONTHS OF OPERATION.
- REPAIRS OR REPLACEMENT OF INLET/OUTLET STRUCTURES, RIP-RAP CHANNELS, FENCES, OR OTHER ELEMENTS OF THE FACILITY SHOULD BE DONE WITHIN 30 DAYS OF DEFICIENCY REPORTS. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR/REPLACEMENT MUST BE DONE IMMEDIATELY.



EROSION CONTROL AND SOIL STABILIZATION PROGRAM:

- DENOUED SLOPES SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF TIME, SUCH AS THE INACTIVE WINTER SEASONS.
- TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, 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 2000 LBS/ACRE.
- ALL HAYBALES OR TEMPORARY PROTECTION SHALL REMAIN IN-PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
- STOCKPILES OF TOPSOIL AND EARTH MATERIALS SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY PERCENT (30%), SHALL ALSO BE SEEDED AND/OR STABILIZED AND SHALL BE COMPLETELY ENCIRCLED WITH STAKED HAYBALES AND/OR SILT FENCE. (SEE DETAIL).
- ALL DISTURBED AREAS MUST BE STABILIZED WITH APPROVED GROUND COVER WITHIN THE CONSTRUCTION SEASON.
- ALL DISTURBED AREAS MUST BE PERMANENTLY STABILIZED BEFORE OCTOBER 1ST, IF NOT THEY MUST BE TEMPORARILY STABILIZED WITH APPROVED GROUND COVER.
- THE CONTRACTOR SHOULD INITIATE APPROPRIATE VEGETATIVE PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN 21 DAYS.
- THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH RHODE ISLAND STANDARD SPECIFICATION M.20.01
- THE SEED MIX SHALL BE INOCULATED WITHIN 24-HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULATED FOR EACH VARIETY.
- THE DESIGN MIX UTILIZED IN ALL DISTURBED AREAS TO BE SEEDING SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, 1989, CHAPTER FOUR, SECTION A AND B, AS AMENDED.
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR, AND SHALL DO SO AT NO ADDITIONAL EXPENSE.
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 15 - OCTOBER 15 AS INDICATED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, 1989, CHAPTER FOUR, SECTION A AND B, AS AMENDED.
- ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
- SHOULD ANY OR ALL OF THE PROPOSED PLANTS FAIL TO SURVIVE AT LEAST ONE (1) FULL GROWING SEASON FROM THE TIME THEY HAVE BEEN PLANTED, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR REPLACING AND MAINTAINING THE SAME PLANT SPECIES FOR (1) ADDITIONAL GROWING SEASON.
- TEMPORARY SEEDING MUST BE DONE WITHIN ONE (1) MONTH AFTER DISTURBANCE.

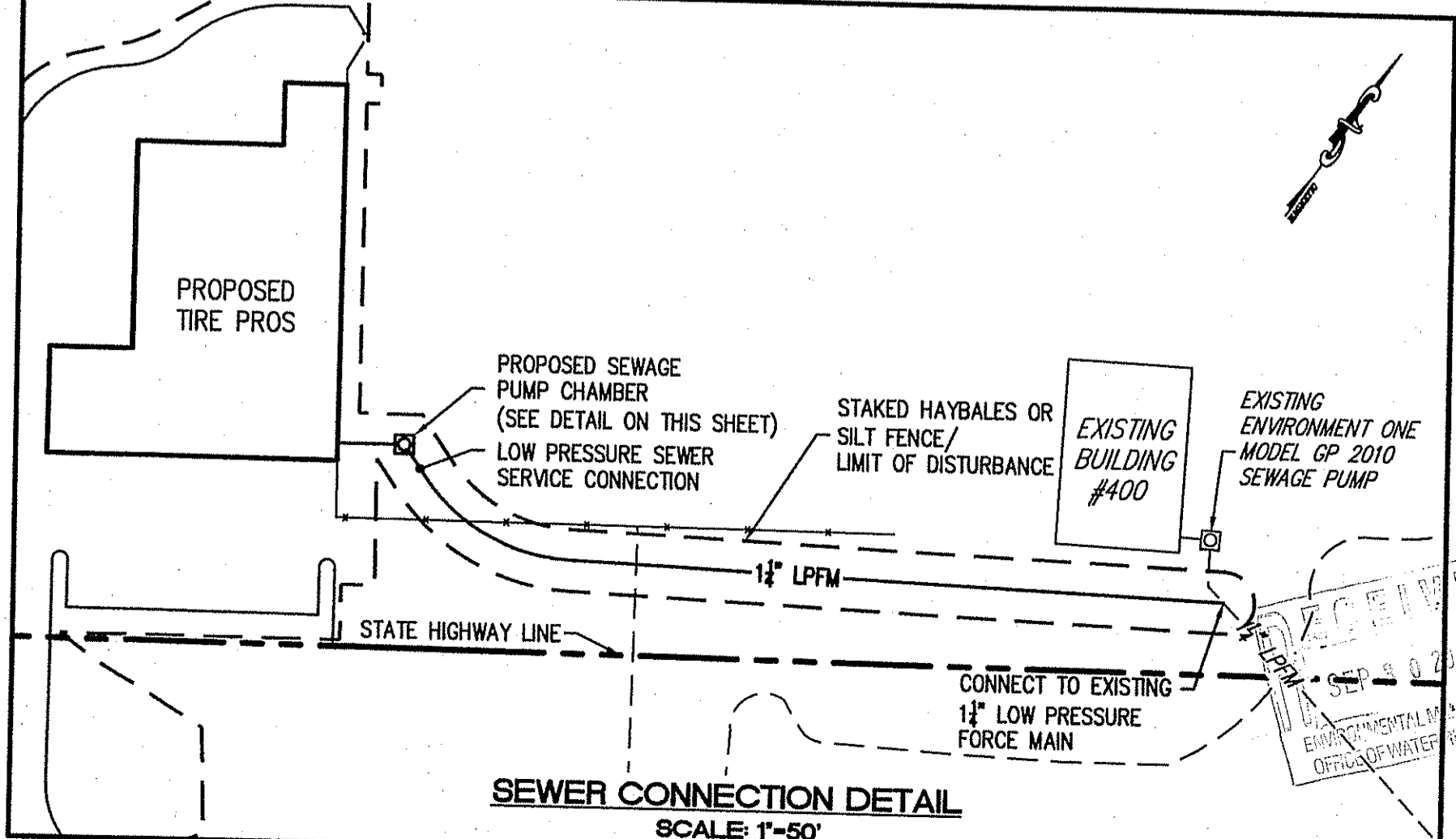
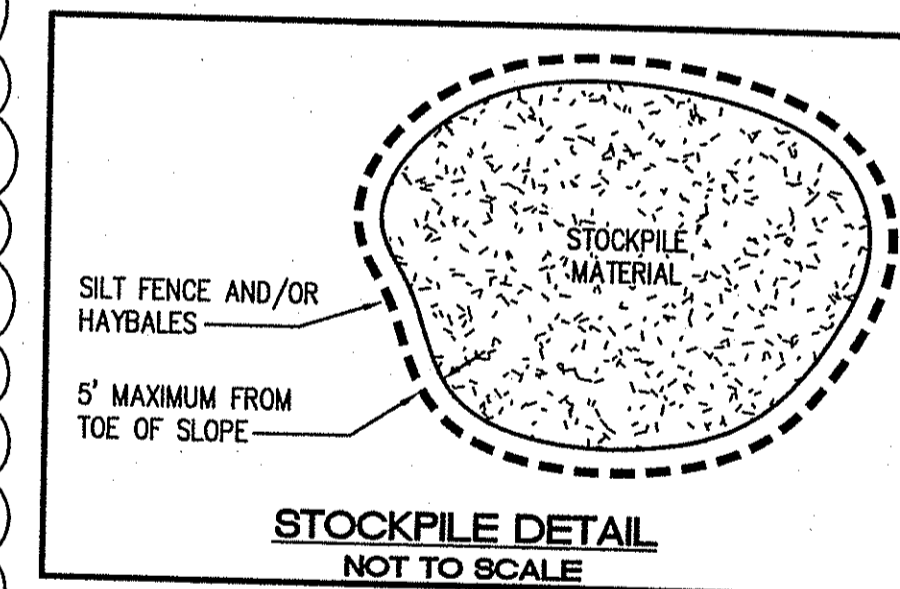
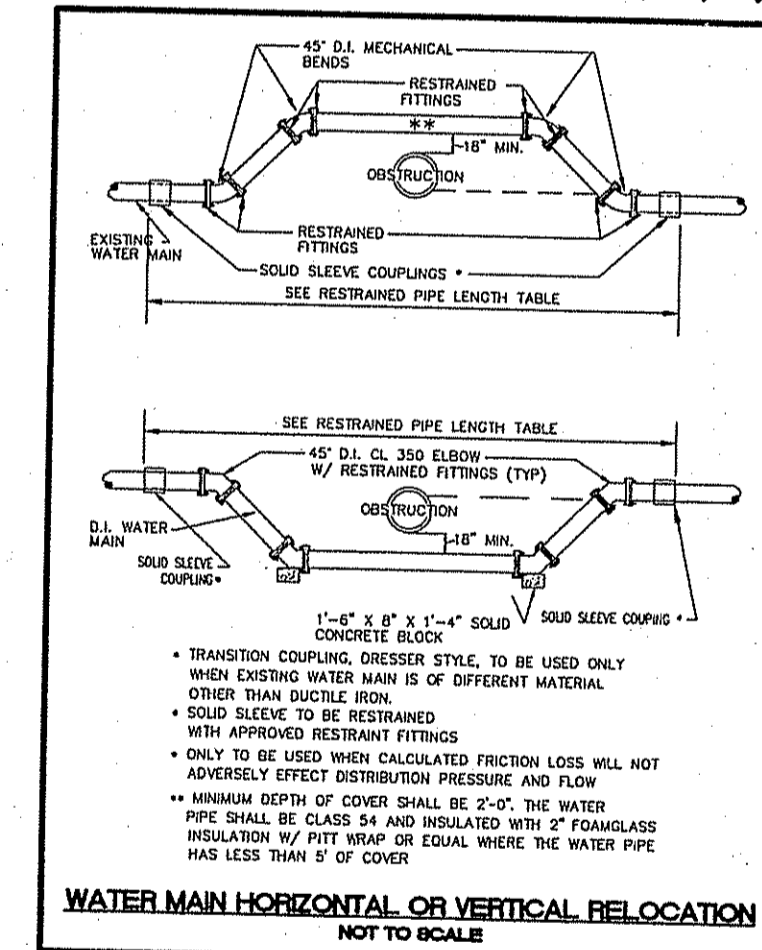
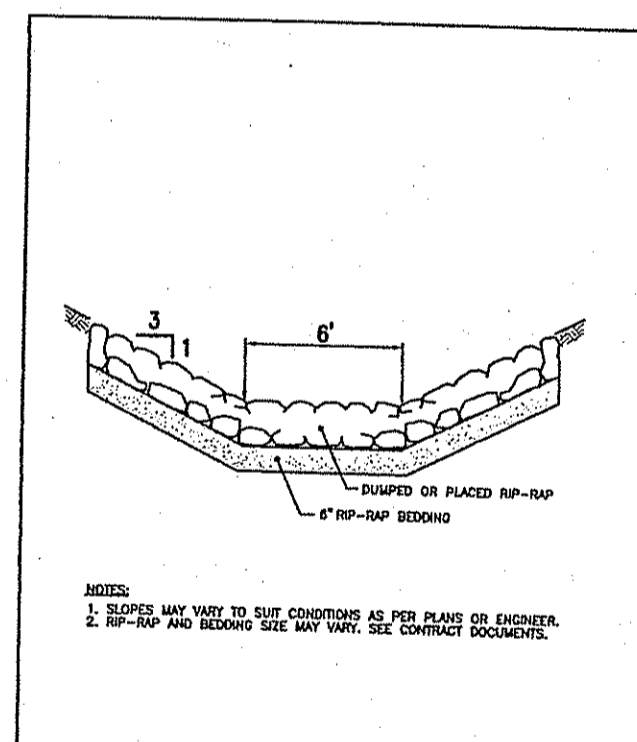
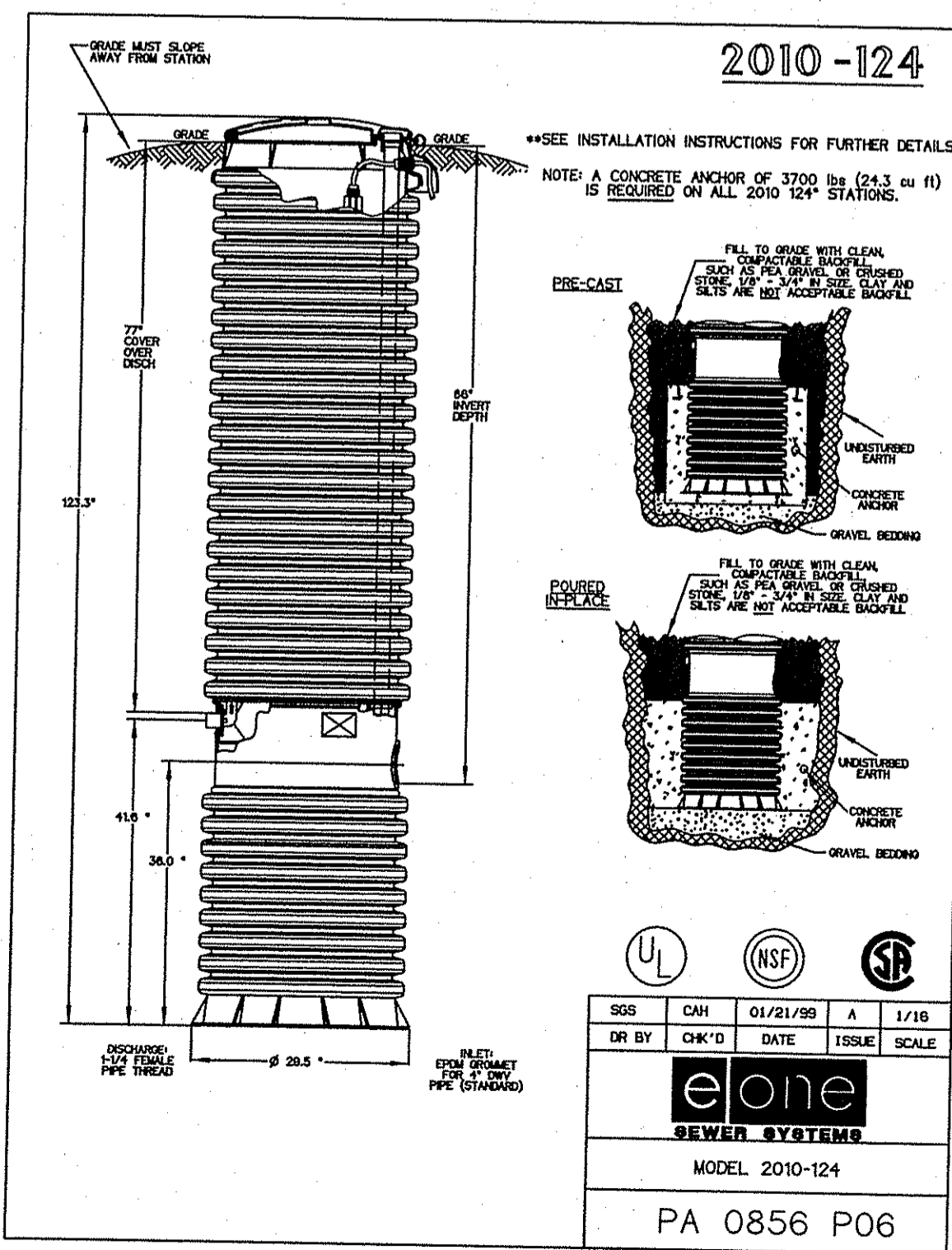
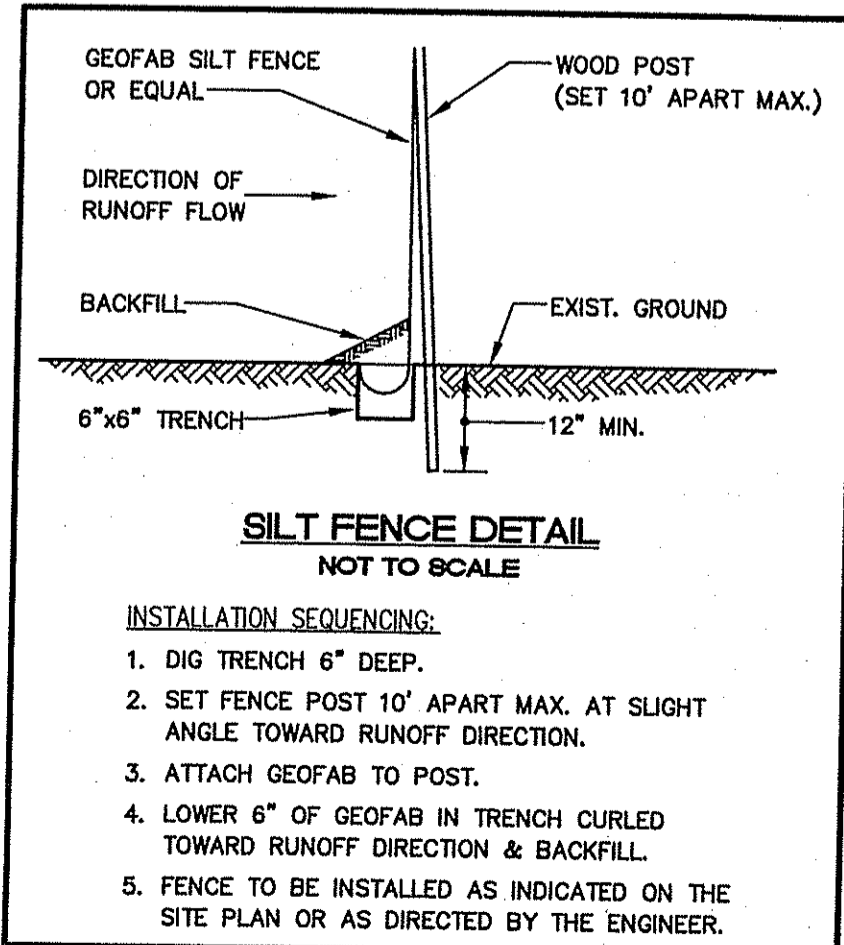
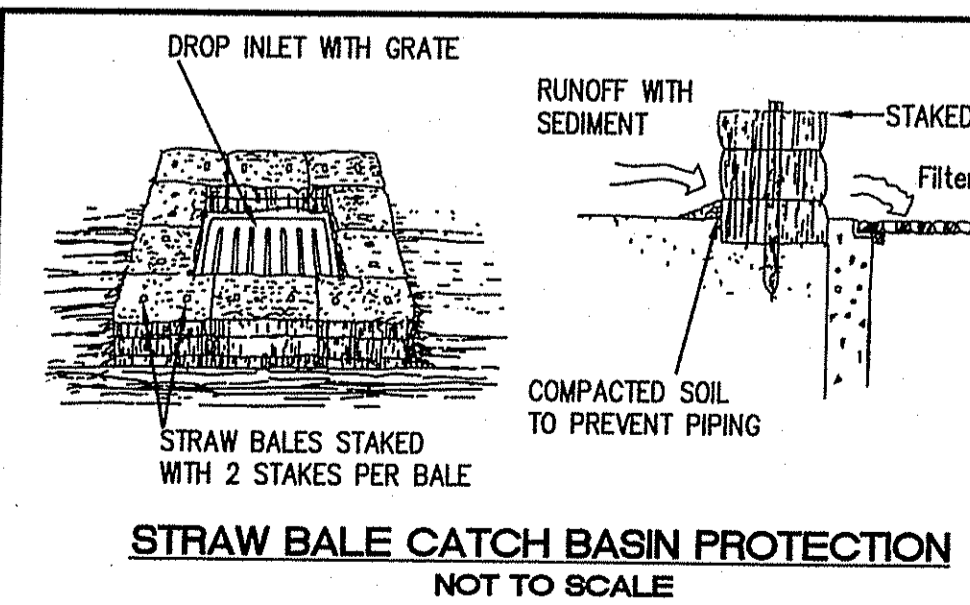
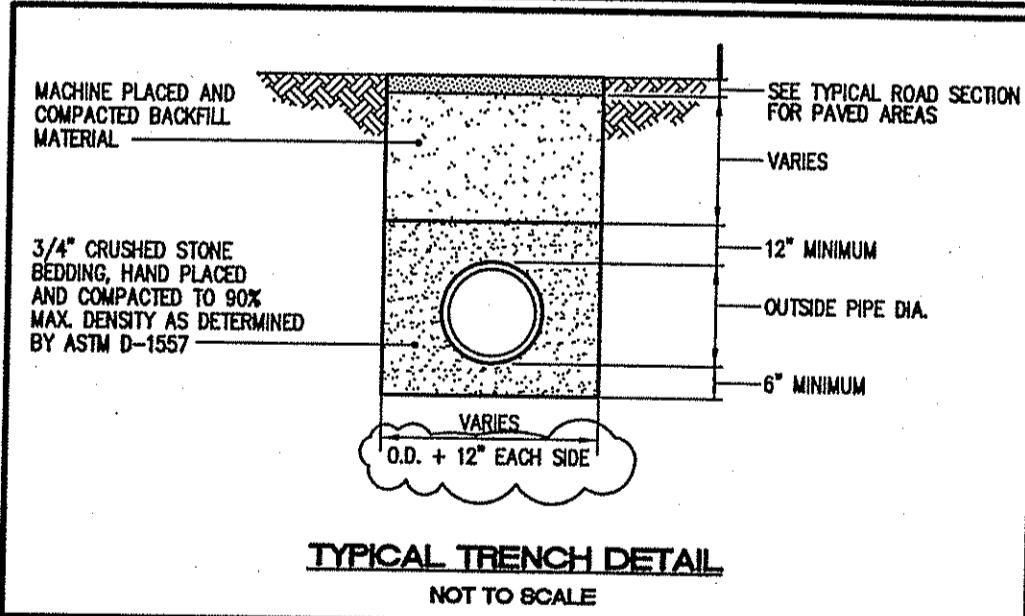
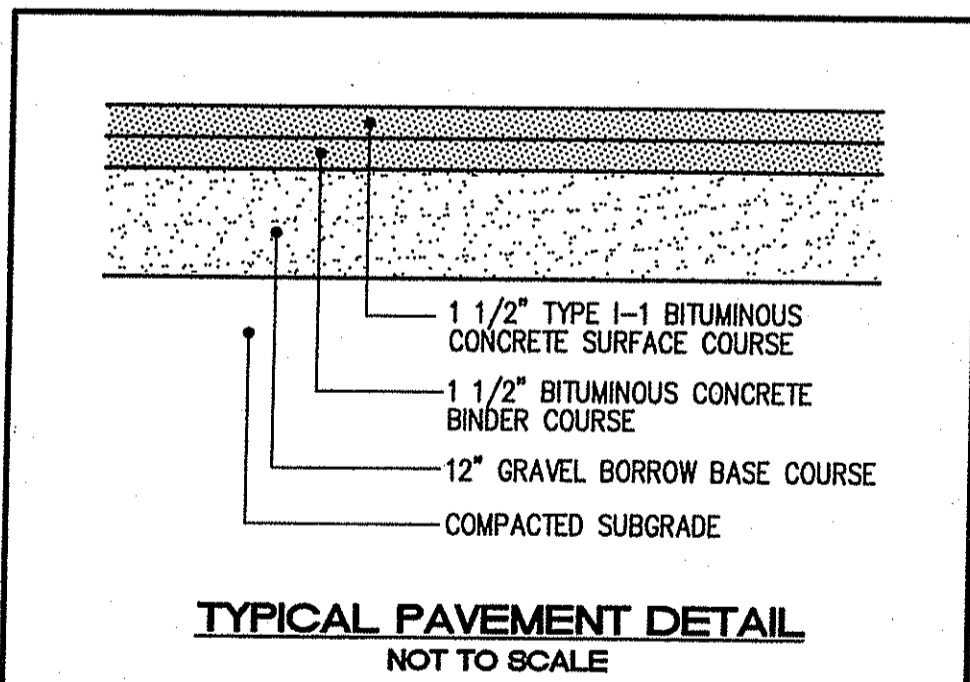
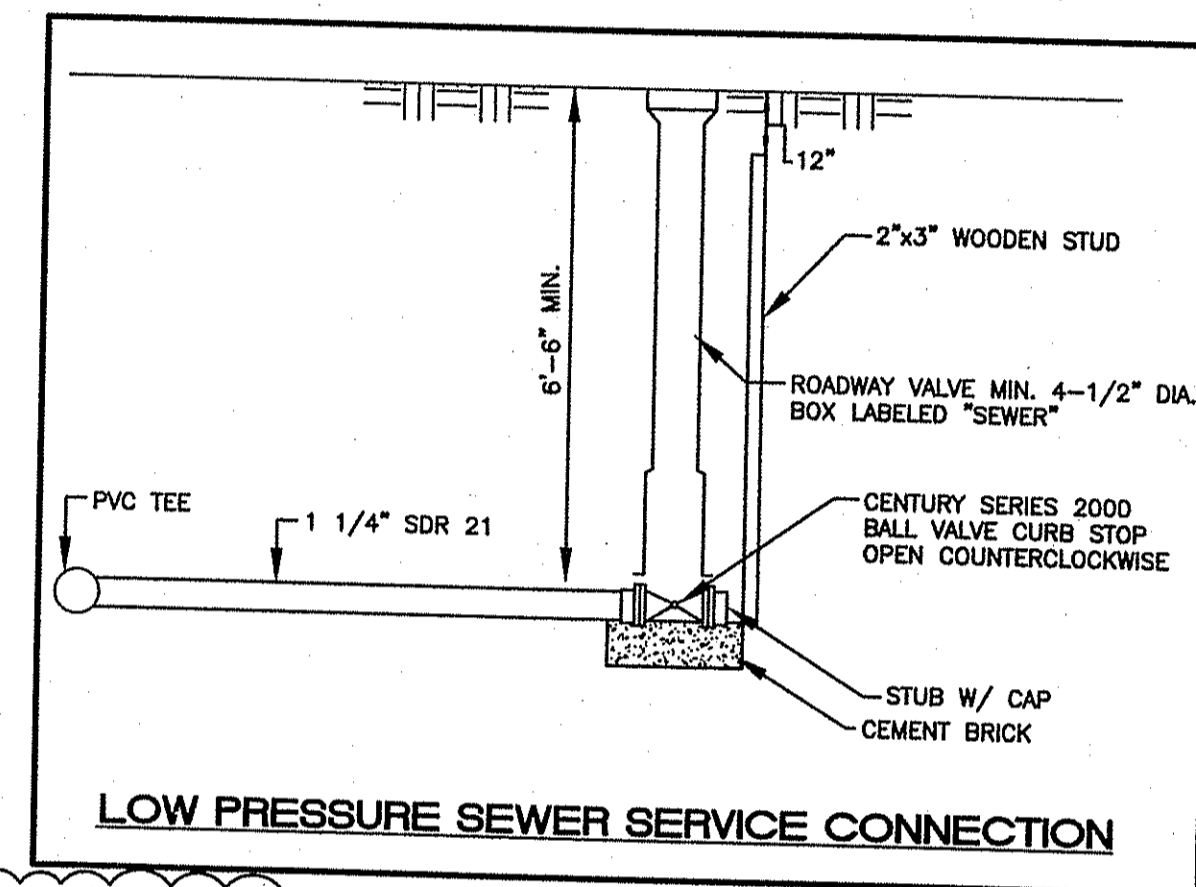
SEDIMENTATION CONTROL PROGRAM:

- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING DOWNSTREAM WATERCOURSES AND STORMWATER DRAINAGE SYSTEMS.
- DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUN-OFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
- SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
- CARE SHALL BE TAKEN SO AS NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECTED TO STORMWATER FLOWAGE.
- ADDITIONAL HAYBALES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
- SEDIMENTATION TRAPS SHALL BE PROVIDED AT ALL DRAINAGE STRUCTURES DURING CONSTRUCTION.
- EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT THE SITE PRIOR TO THE START OF CONSTRUCTION AND BE PROPERLY MAINTAINED UNTIL ALL DISTURBED AREAS ARE STABILIZED INCLUDING:
 - THE INSTALLATION OF A CONTINUOUS LINE OF STAKED HAYBALES IN ALL LOCATIONS SHOWN ON THE APPROVED SITE PLANS AND WHERE OTHERWISE NECESSARY TO PREVENT SEDIMENTS FROM ENTERING DOWNSTREAM WATERCOURSES AND STORMWATER DRAINAGE SYSTEMS.
 - ALL DISTURBED AREAS ARE TO BE PERMANENTLY STABILIZED WITH APPROVED GROUND COVER PRIOR TO THE COMPLETION OF THE PROJECT. AREAS EXPOSED FOR EXTENDED PERIODS ARE TO BE COMPLETELY COVERED WITH SPREAD HAY MULCH.
 - CATCH BASINS WILL BE PROTECTED WITH HAYBALE FILTERS THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED. SUMPS ARE TO BE CLEANED IMMEDIATELY FOLLOWING INSTALLATION OF PERMANENT PAVEMENT.
 - OUTFALLS ARE TO BE PROTECTED BY HAYBALE FILTERS UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED WITH APPROVED GROUND COVER.
 - ALL CONTROL MEASURES WILL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
- THE LIMITS OF ALL CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE SHALL REMAIN TOTALLY UNDISTURBED.
- AS STATED IN SECTIONS F.A.2 AND F.B.3 OF THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH ONE-HALF THE HEIGHT OF THE HAYBALE AND/OR SILT FENCE.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 24 2008 FILE # 08-0103
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Ernest D. Wenzel

SEWER NOTES:

- THE INSTALLATION OF THE SANITARY SEWER SHALL BE IN COMPLETE CONFORMANCE WITH THE CONSTRUCTION DETAILS AND THE STANDARD SANITARY SEWER REQUIREMENTS OF THE NARRAGANSETT BAY COMMISSION.
- ALL GRAVITY SEWER PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF ASTM SPECIFICATION D3034, SDR 35.
- ALL PRESSURE SEWER PIPE AND FITTINGS SHALL BE SDR-21 PVC
- WATER OR LOW PRESSURE AIR TESTING SHALL BE CONDUCTED TO ASSURE THE RATE OF LEAKAGE TO BE 0 GALLONS/DAY/INCH DIAMETER/MILE OF PIPE. (GRAVITY)
- AFTER THE PIPES OF THE FORCE MAIN SEWER HAVE BEEN LAID, SECURED IN PLACE AND JOINED AS HEREIN BEFORE SPECIFIED, THE FORCE MAIN SEWERS SHALL BE TESTED FOR STRENGTH AND LEAKAGE.
 - THE CONTRACTOR SHALL FURNISH ALL APPARATUS MATERIAL AND LABOR AND THE NECESSARY WATER FOR MAKING THE TESTS.
 - BEFORE TESTING PIPE LINES HAVING FLEXIBLE JOINTS, THE CONTRACTOR MUST MAKE CERTAIN THAT THE PIPE LINES ARE SECURELY HELD TO PREVENT MOVEMENT.
 - THE ENDS OF THE SECTIONS OF FORCE MAIN TO BE TESTED SHALL BE TIGHTLY CLOSED BY BLANK FLANGES OR OTHERWISE FOR THE DURATION OF EACH TEST.
 - STRENGTH SHALL BE TESTED AT A PRESSURE BETWEEN 125 AND 150 PSI. THE PRESSURE FOR STRENGTH TEST SHALL BE MAINTAINED FOR AT LEAST ONE HOUR BY PUMPING ADDITIONAL WATER INTO THE PIPE LINE.
 - LEAKAGE SHALL BE TESTED AT 150 PSI. THE TEST FOR LEAKAGE SHALL BE FOR AT LEAST ONE HOUR AND MAY BE REQUIRED TO LAST FOR TWO HOURS. THE ADDITIONAL WATER NEEDED TO MAINTAIN THE REQUIRED PRESSURE SHALL BE MEASURED ACCURATELY IN A MANNER APPROVED BY THE ENGINEER.
 - THE RATE OF LEAKAGE FOR LOW PRESSURE FORCE MAIN SEWERS AND GRAVITY SEWER SHALL BE 0 GAL./DAY/MILE OF PIPE/INCH DIA.
 - THE CONTRACTOR SHALL REPAIR ALL LEAKS DISCOVERED.
 - AIR TESTING OF FORCE MAIN WILL NOT BE ALLOWED.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN STRICT CONFORMANCE WITH THE MANUFACTURERS SPECIFICATIONS AND APPROVED SHOP DRAWINGS.



NO.	DATE	REVISION
1	4/7/08	TOWN COMMENTS
2	4/14/08	SANITARY SEWER NOTES
3	6/27/08	RIBEN COMMENTS

JOHN P. CAITO
CIVIL ENGINEERS
141 JAMES P. MURPHY HIGHWAY
WEST WARRICK, RHODE ISLAND 02893-9386
PH: 401-515-6600
FAX: 401-515-6600

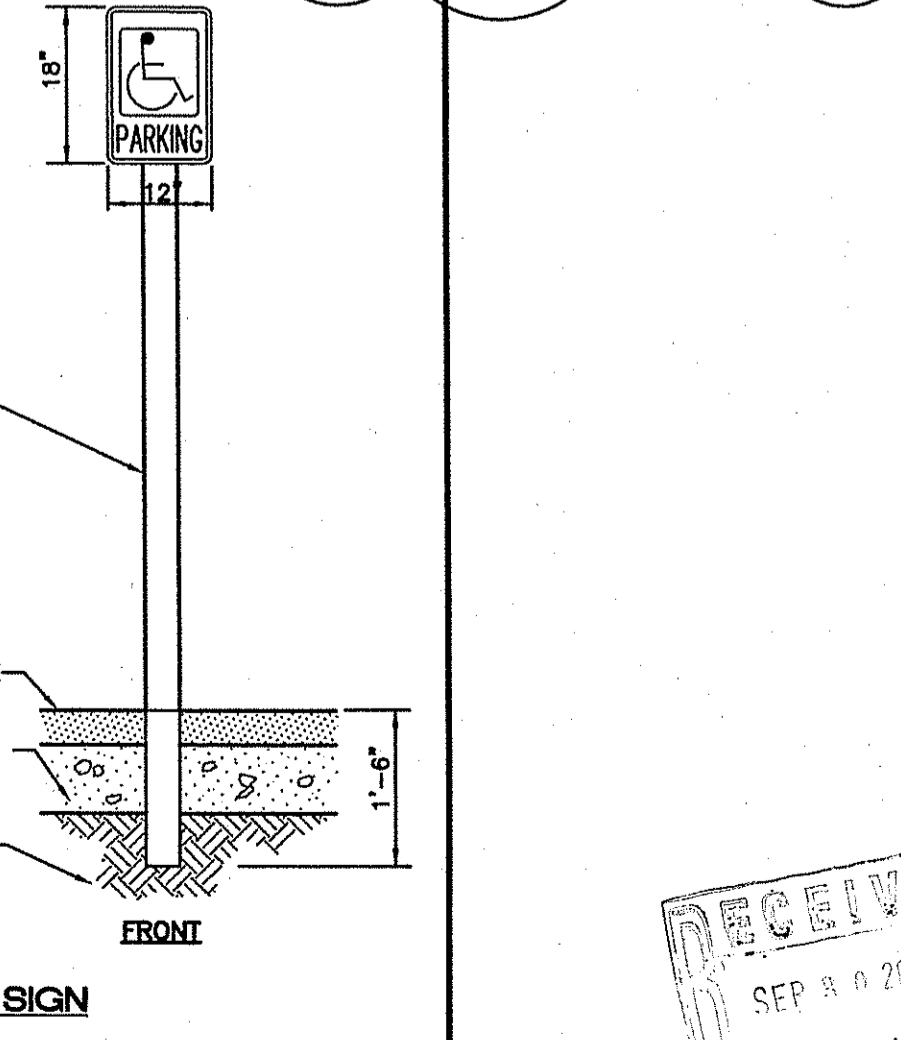
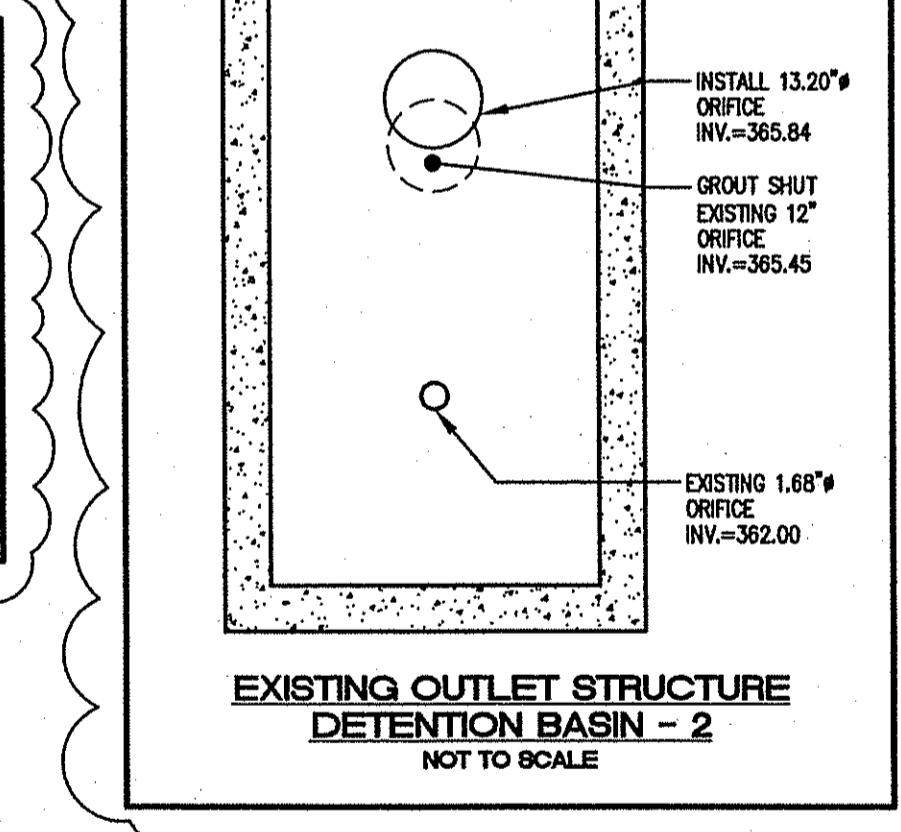
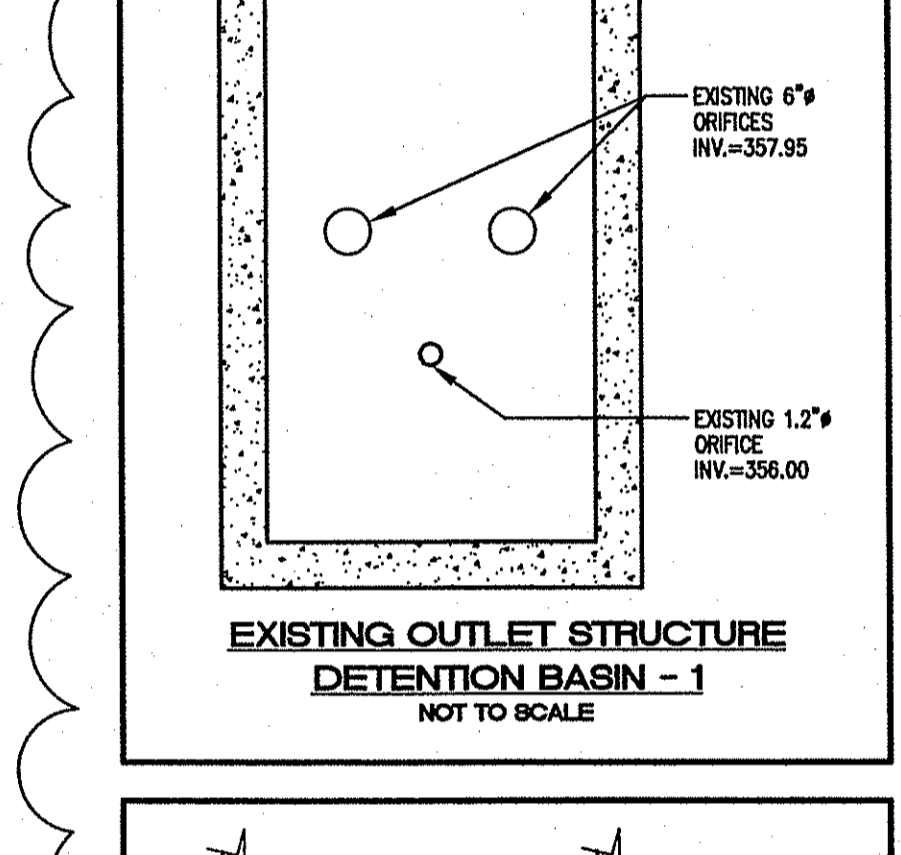
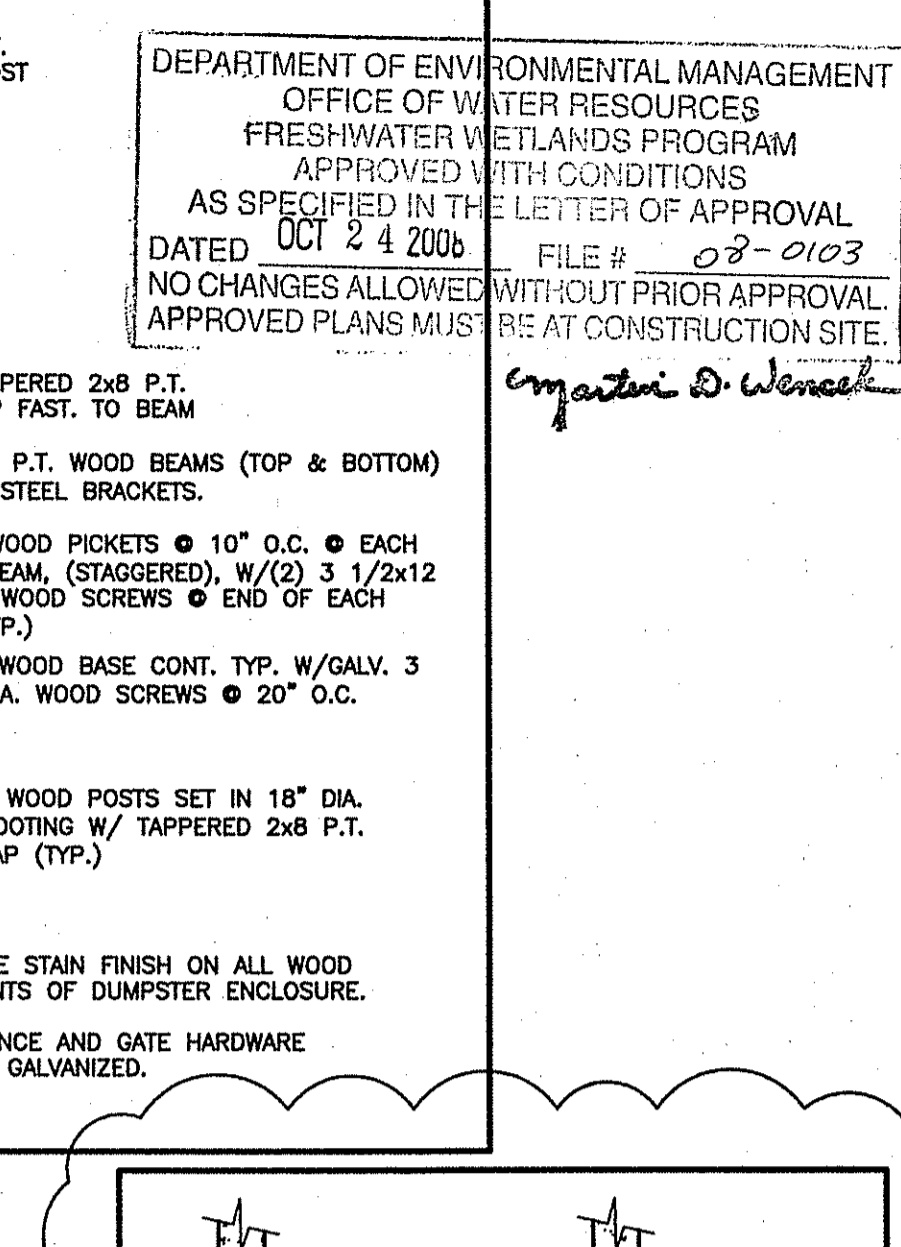
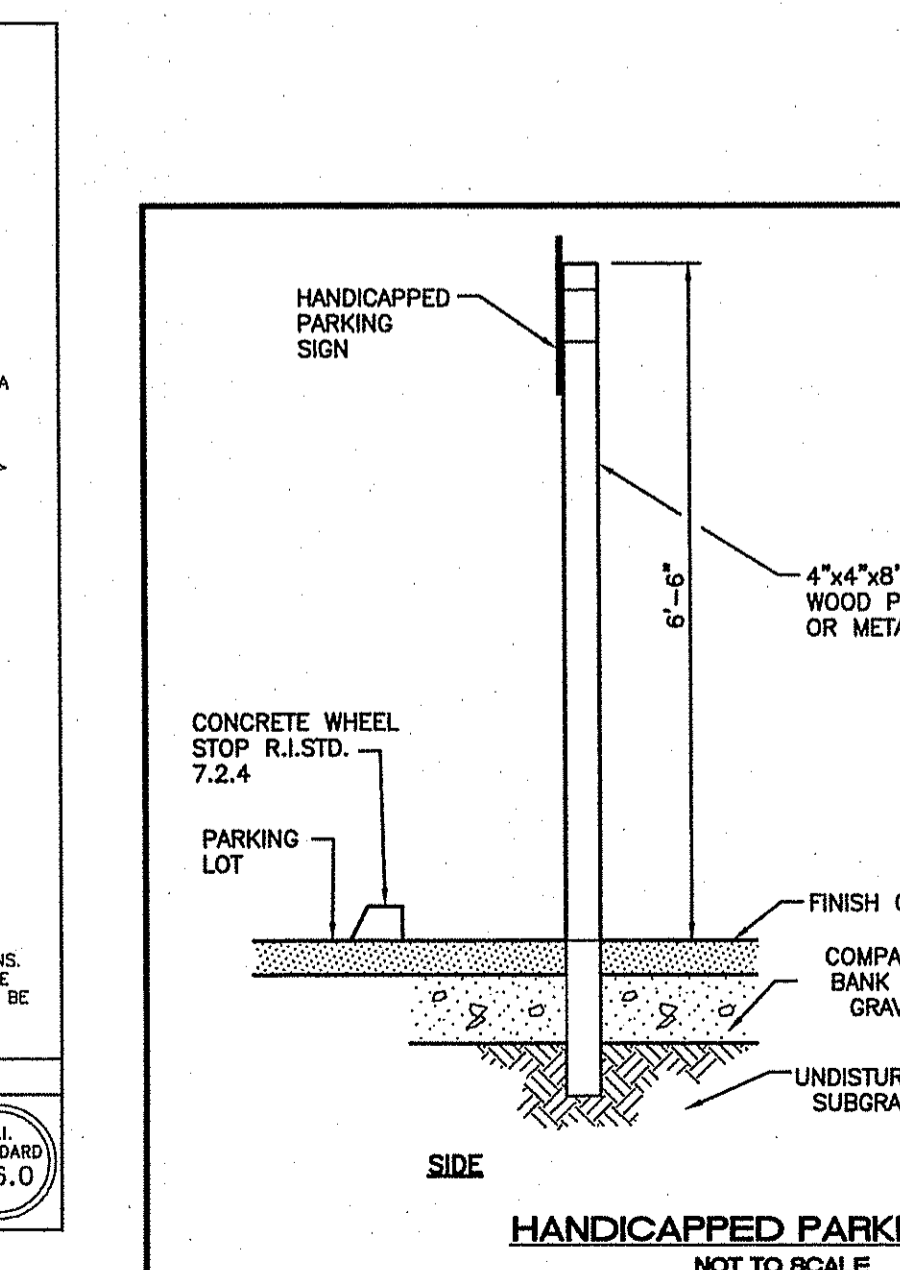
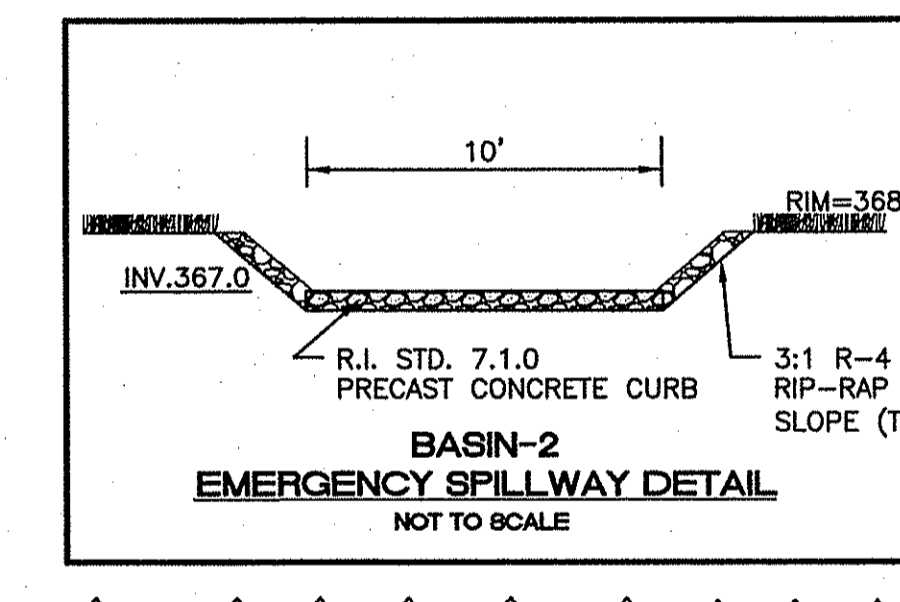
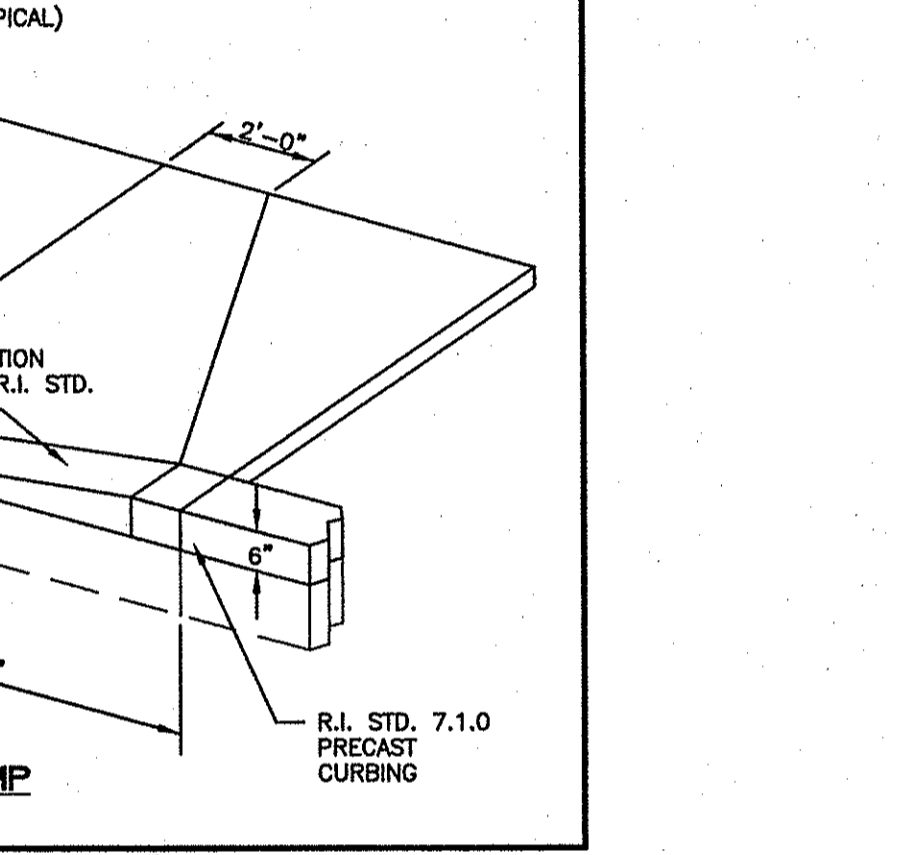
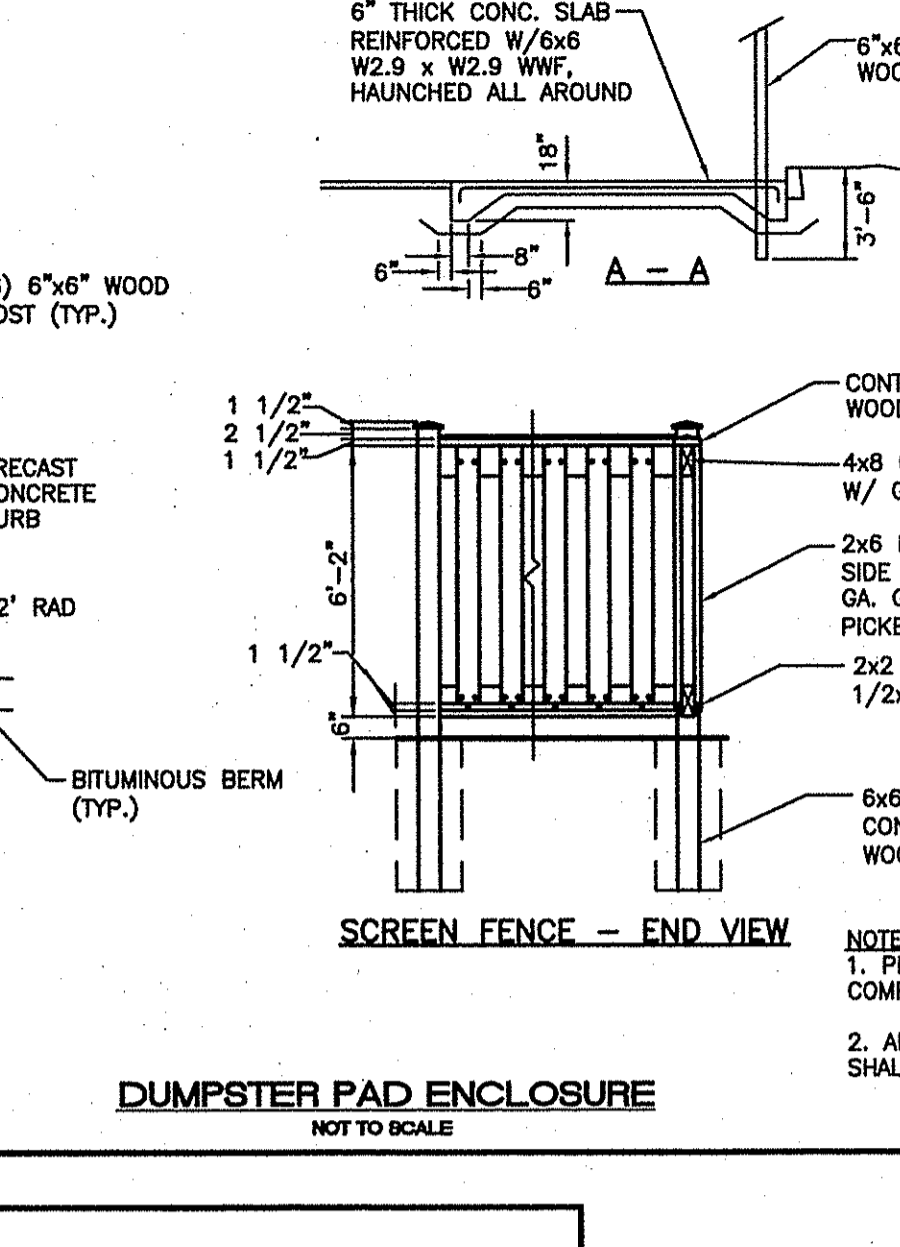
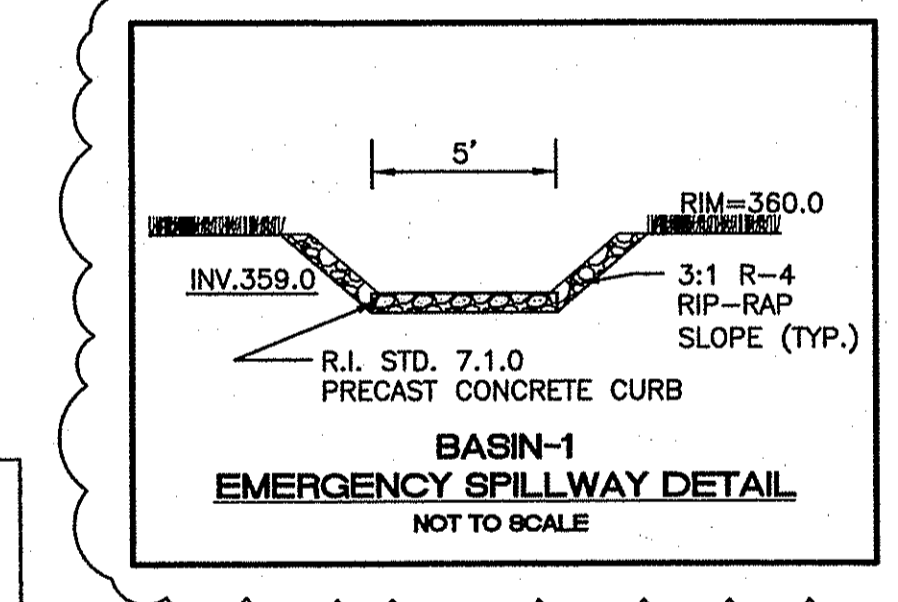
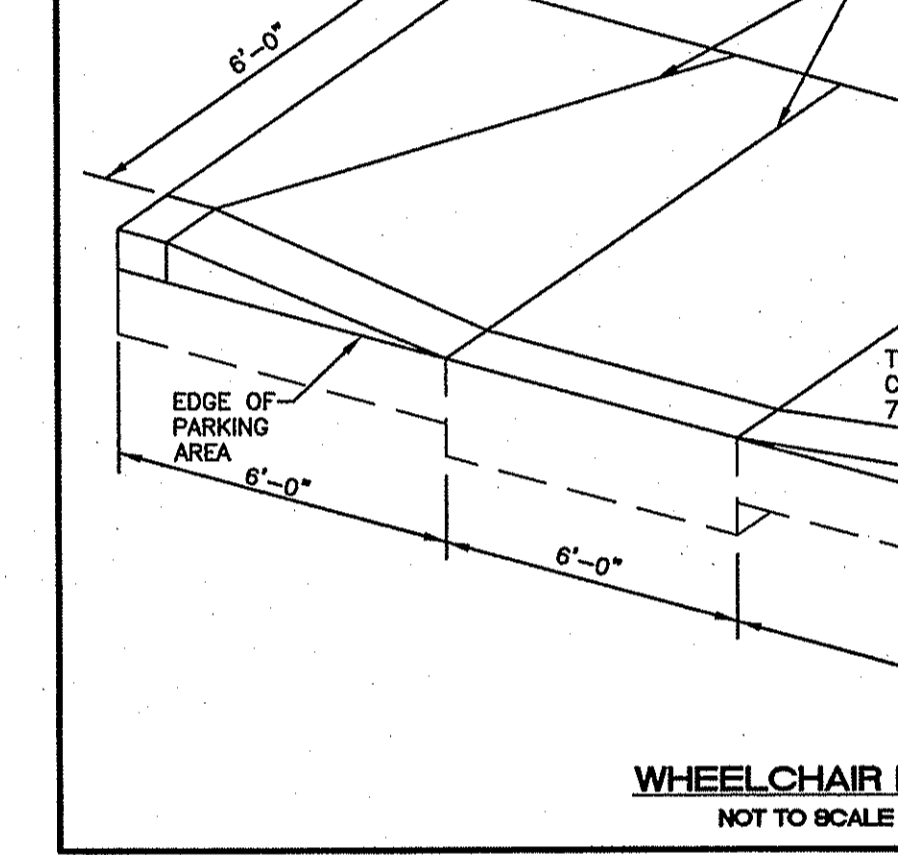
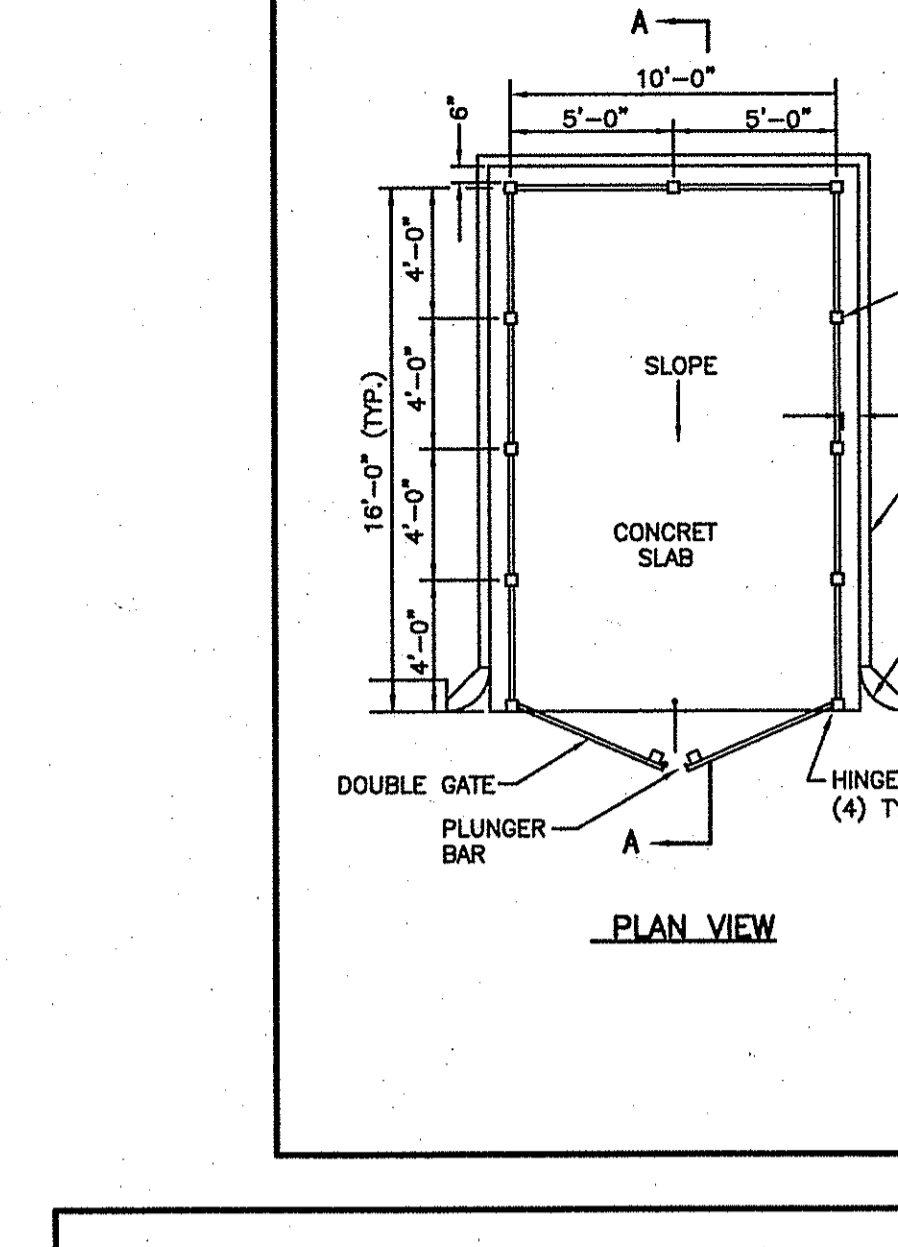
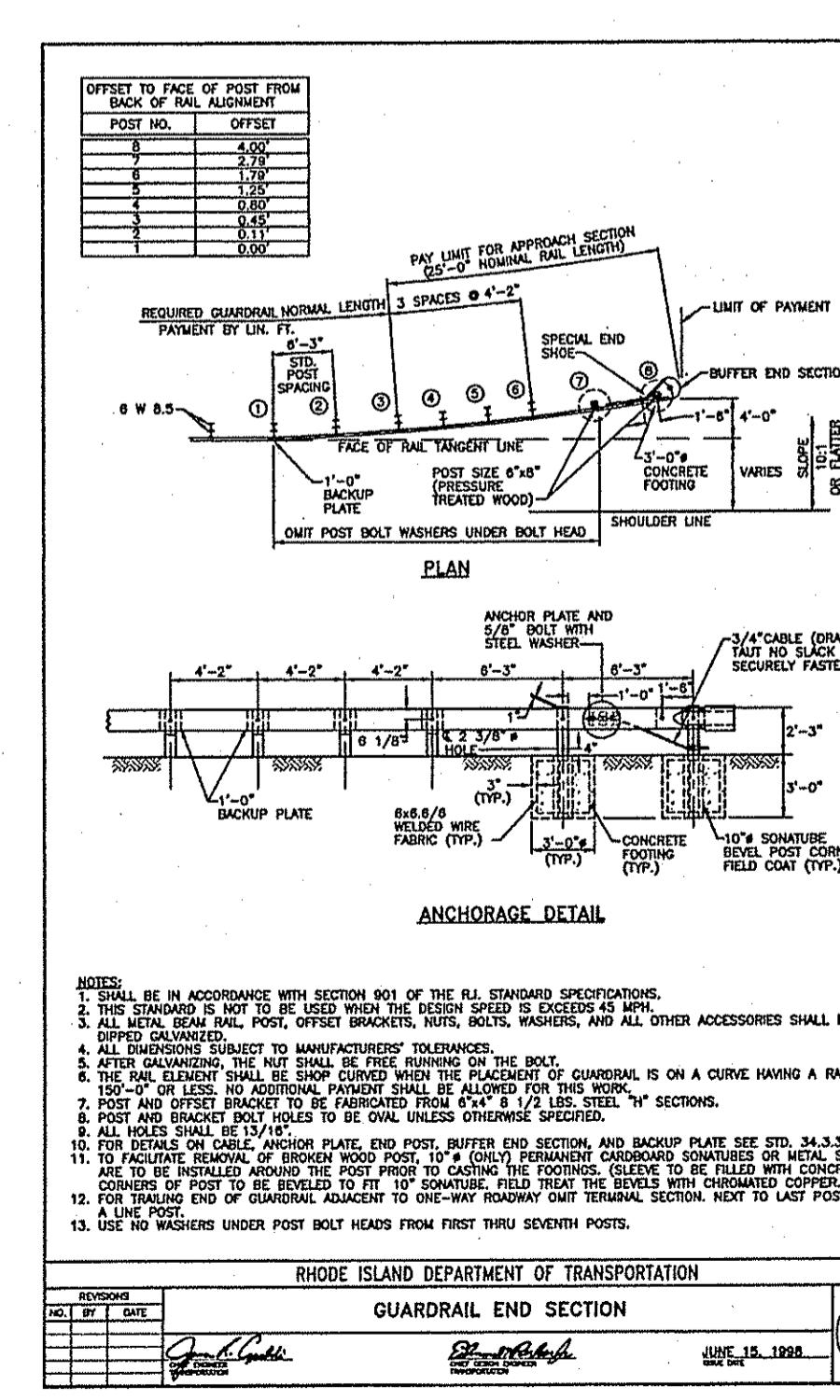
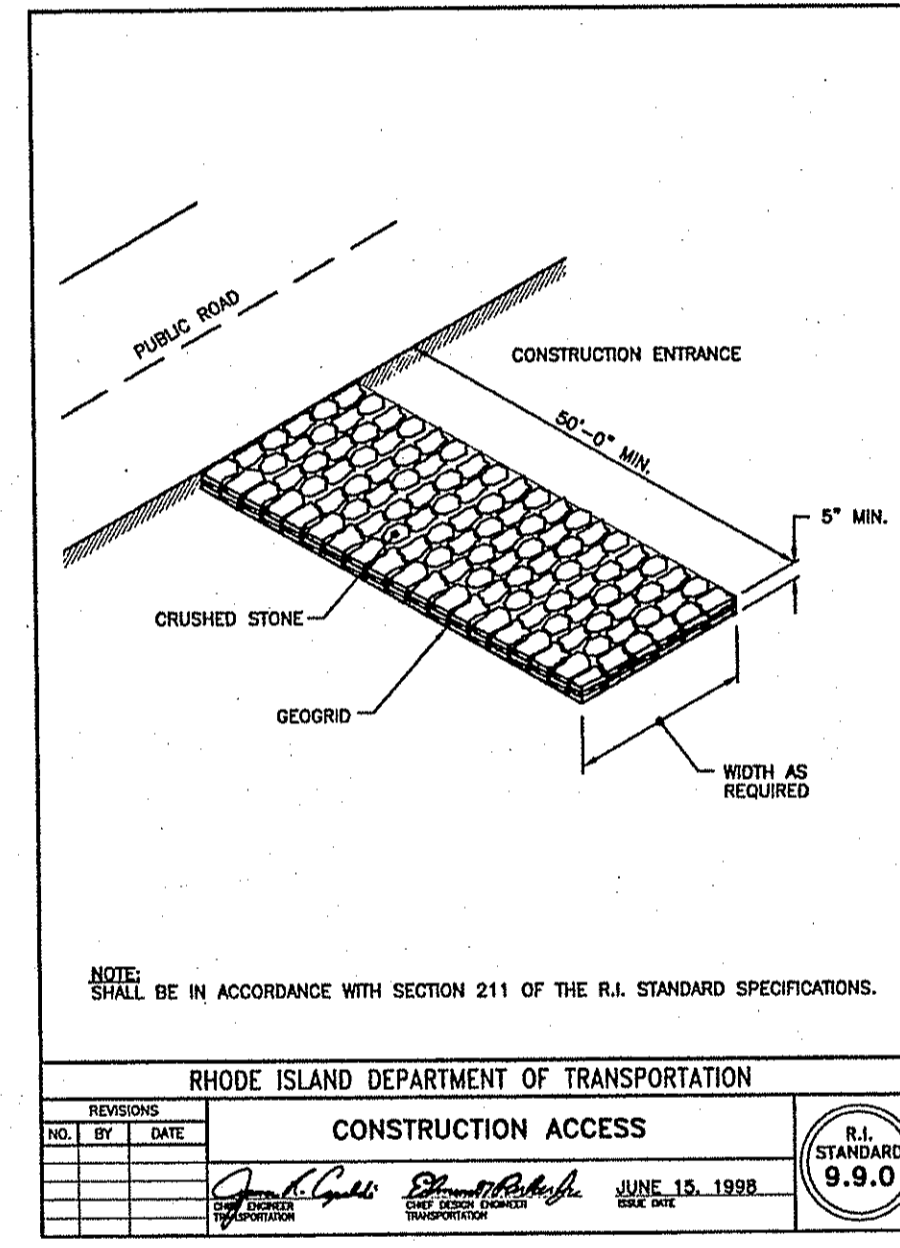
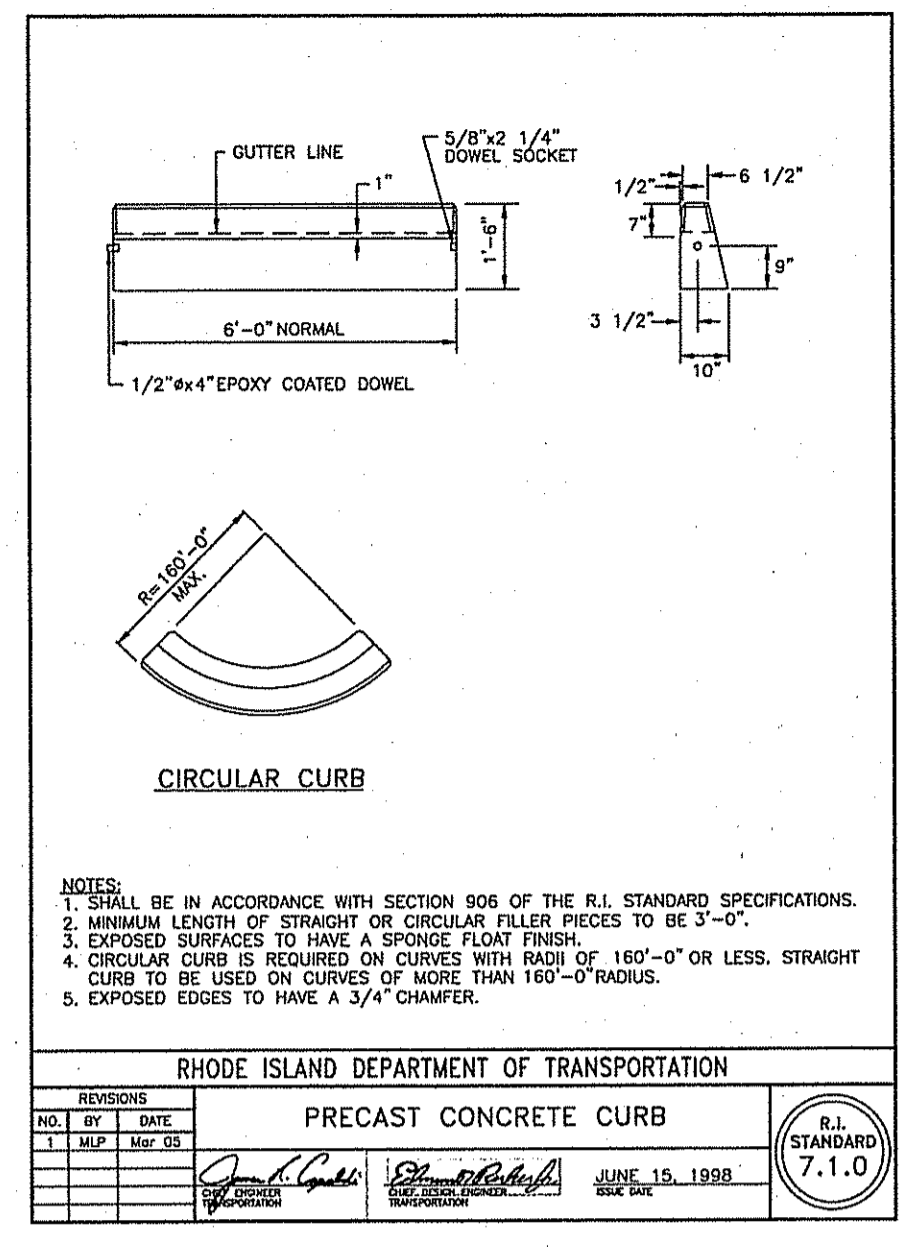
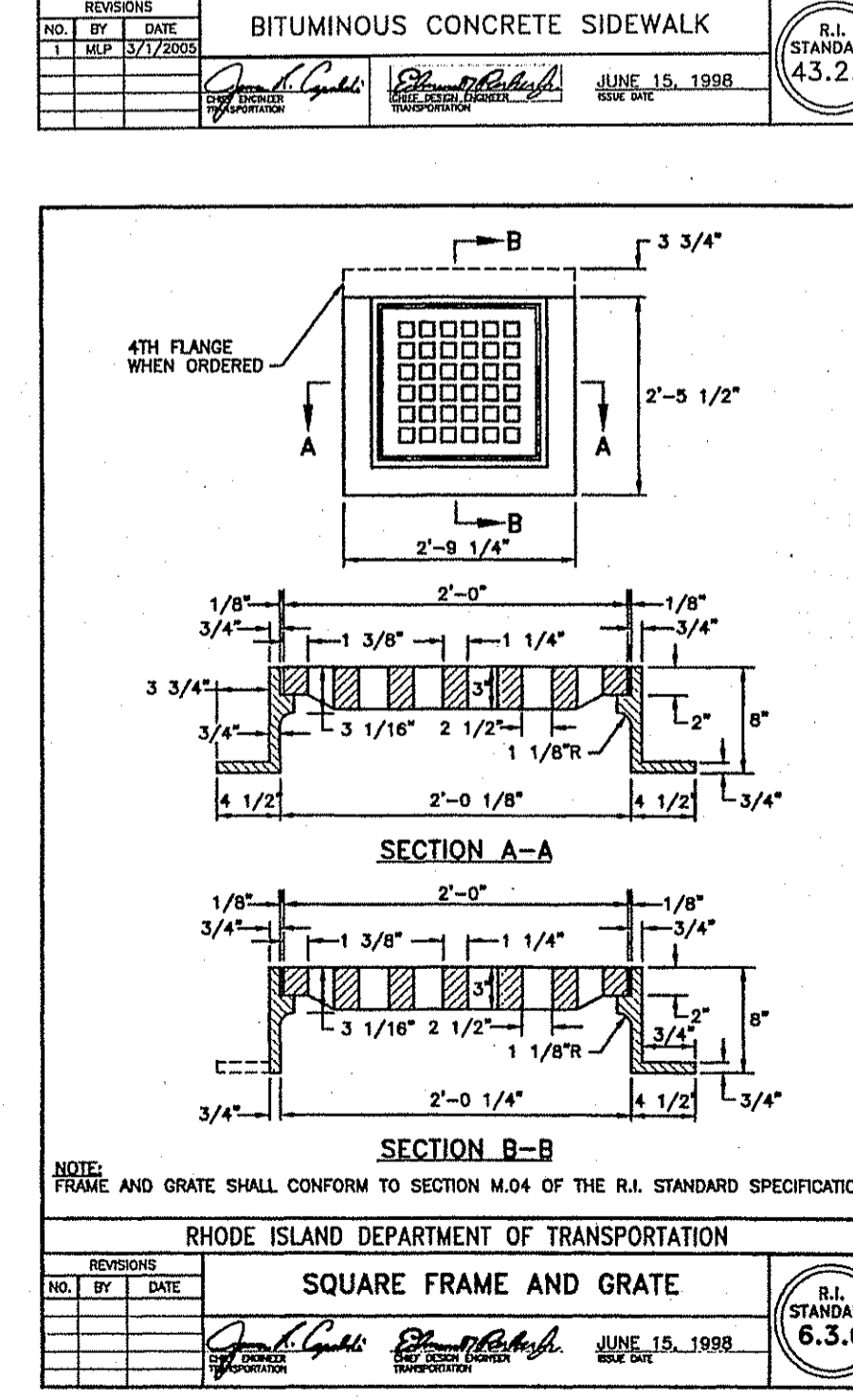
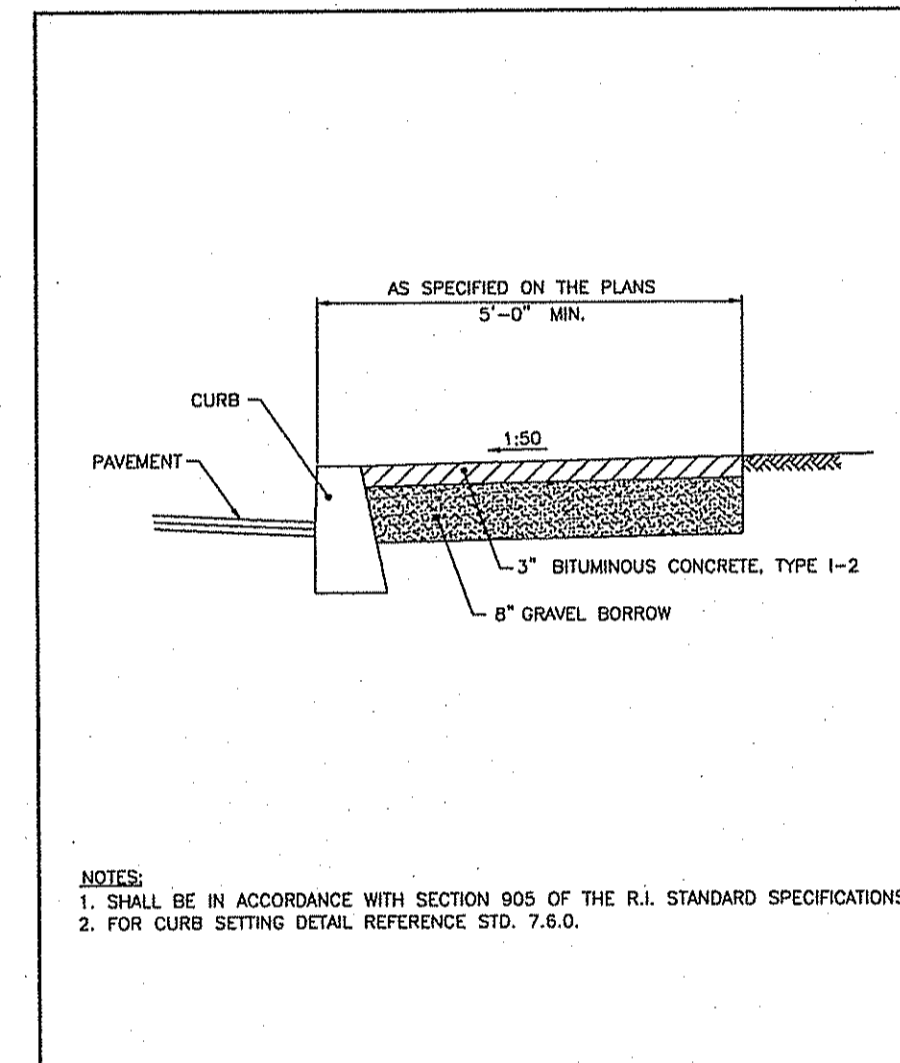
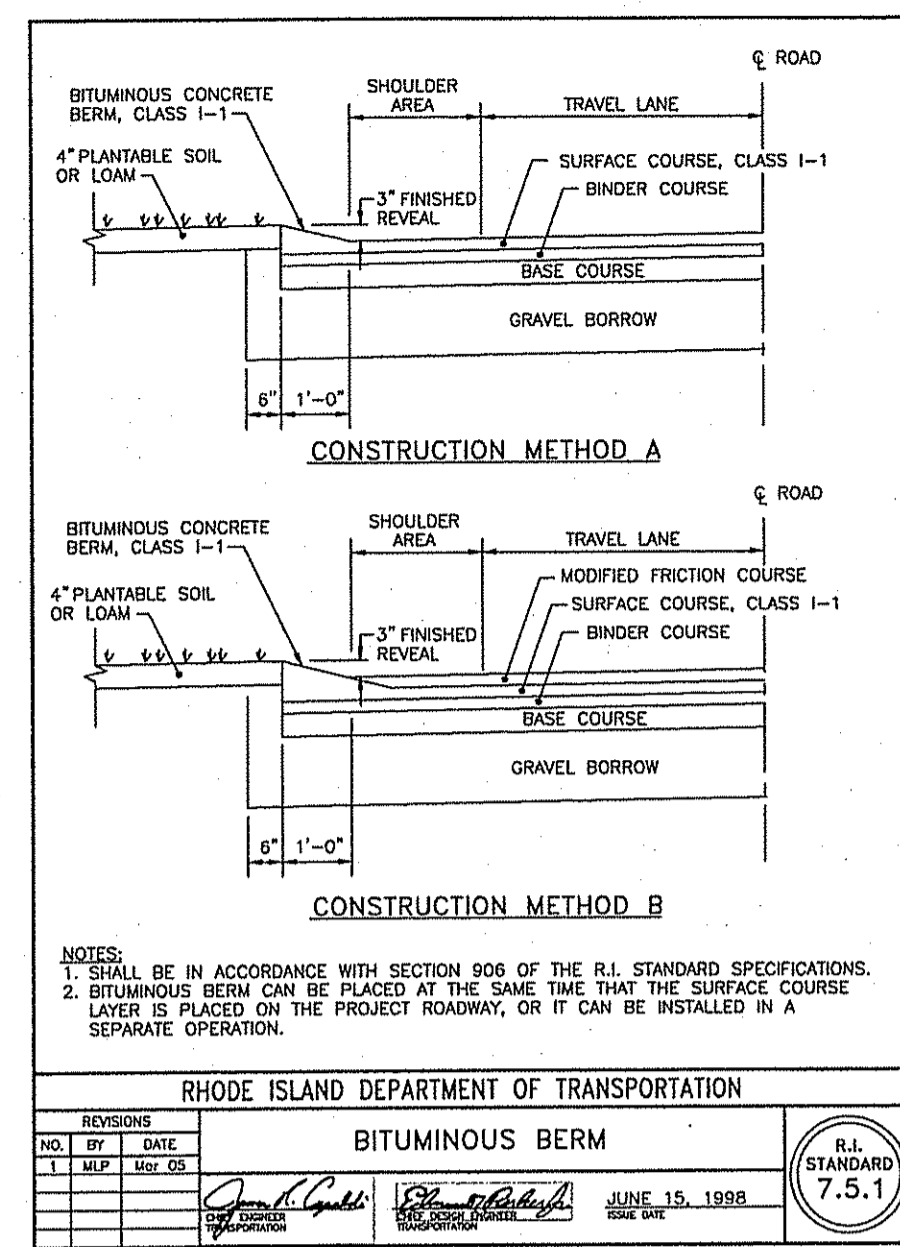
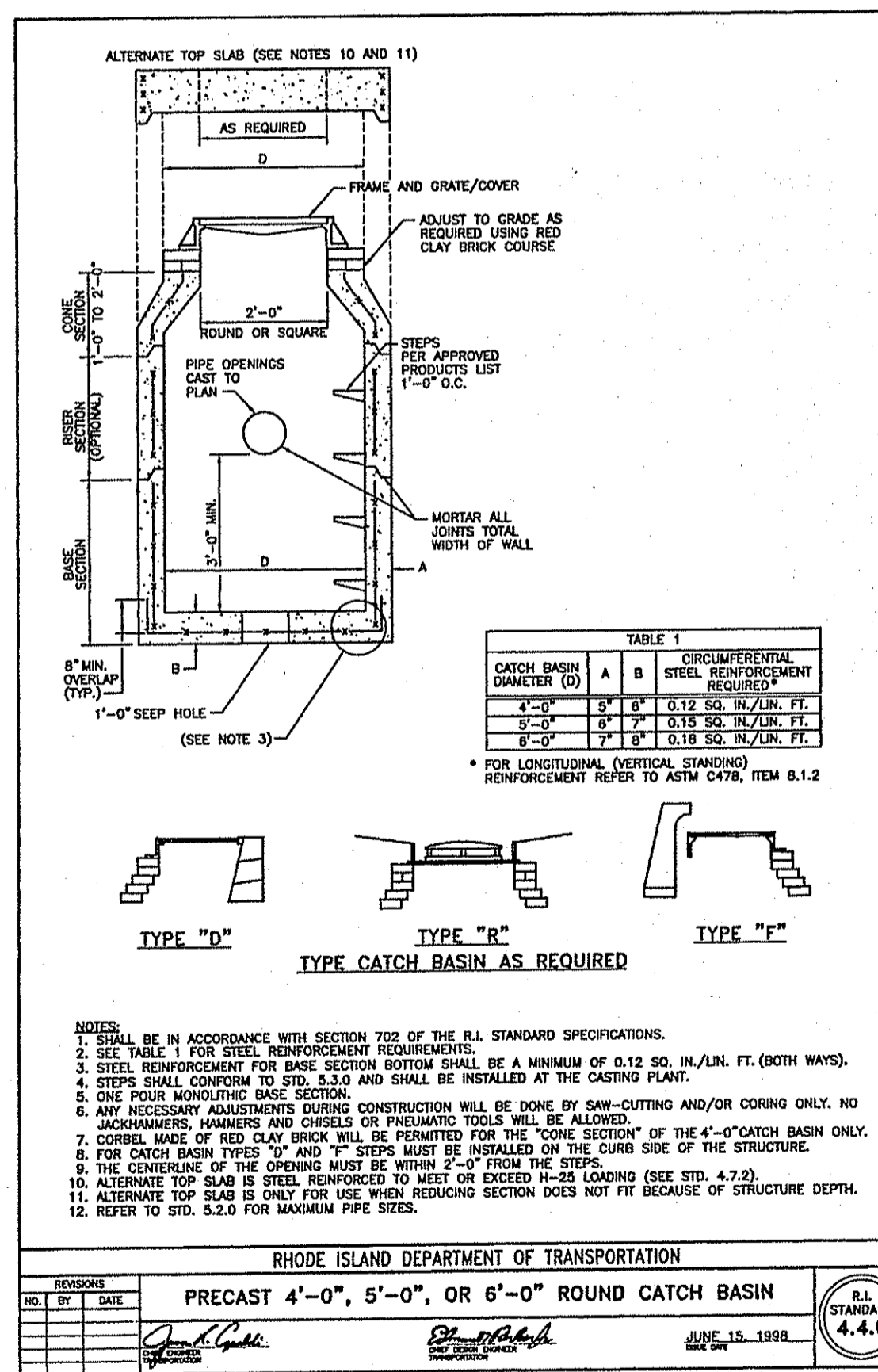
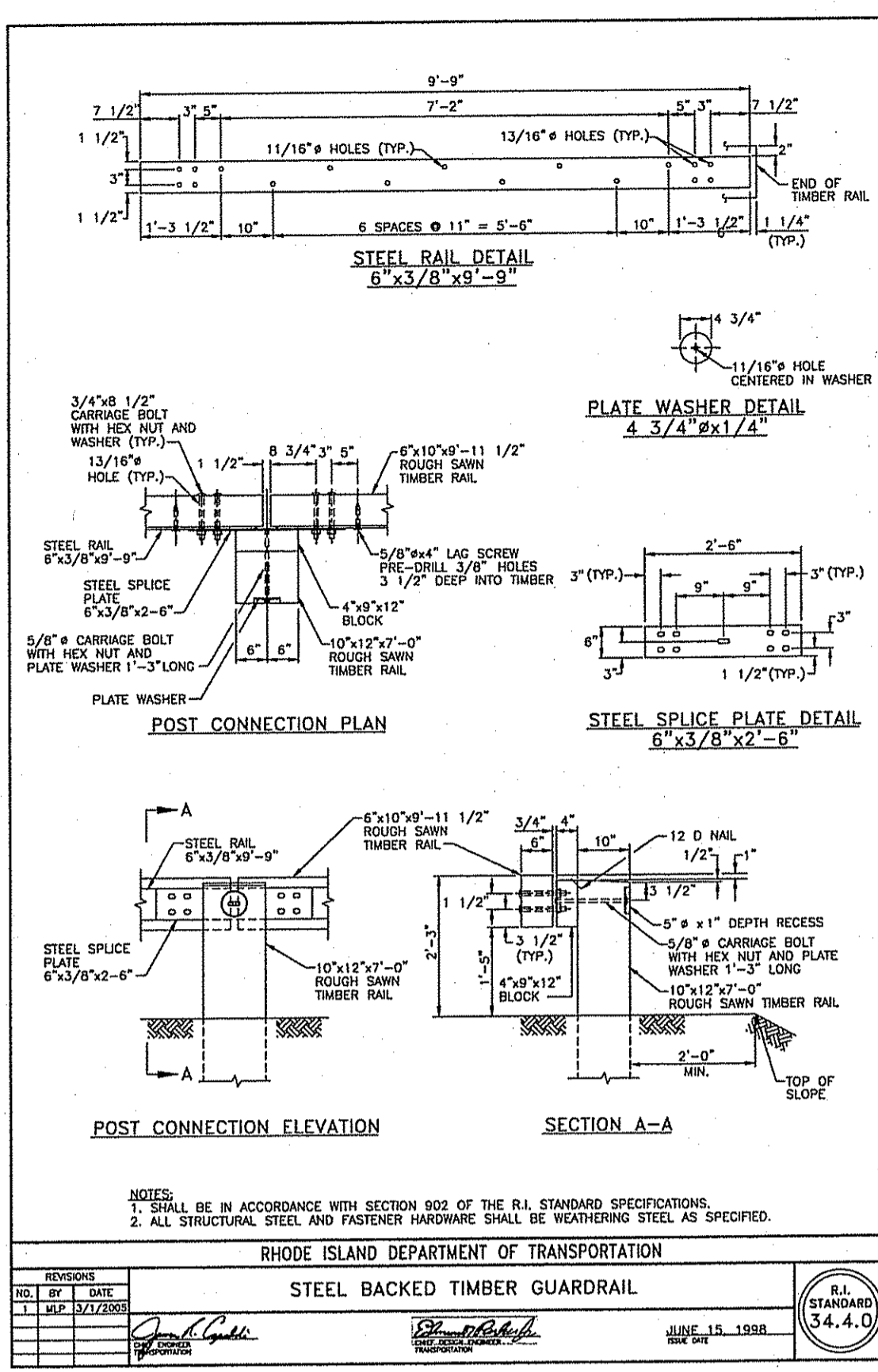
JOHN P. CAITO
CORPORATION
LAND PLANNERS

PROJECT NO: 6051605
DATE: FEBRUARY, 2008
SCALE: AS NOTED
DESIGNED BY: J.C.H.
DRAWN BY: CM.W, M.T.M.
CHECKED BY: J.P.C.

NOTES AND DETAILS
TIRE PROS
ASSESSOR'S PLAT 48, LOT 4C
GEORGE WASHINGTON HIGHWAY (ROUTE 116)
SMITHFIELD
PREPARED FOR
KILDUFF BROTHERS BUILDERS, INC.
RHODE ISLAND

DRAWING NUMBER
5
SHEET 5 OF 6

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 24 2006 FILE # 08-2103
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Matthew D. Wenzel

NO.	DATE	REVISION
1	4/7/08	TOWN COMMENTS
2	8/18/08	RIDEM COMMENTS
3	10/29/08	RIDEM COMMENTS

JOHN P. CAITO
REGISTERED PROFESSIONAL ENGINEER
NO. 4388

CIVIL ENGINEERS
JOHN P. CAITO
CORPORATION
LAND PLANNERS

141 JAMES P. MURPHY HIGHWAY
WEST WARWICK, RHODE ISLAND
02893-9282
401-415-8600
FAX: 401-415-8606

PROJECT NO: 6051605
DATE: FEBRUARY, 2008
SCALE: AS NOTED
DESIGNED BY: J.C.H.
DRAWN BY: C.M.W., M.T.M.
CHECKED BY: J.P.C.

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ASSESSOR'S PLAT 48, LOT 4C
GEORGE WASHINGTON HIGHWAY (ROUTE 116)
SMITHFIELD
PREPARED FOR
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DRAWING NUMBER
6
SHEET 6 OF 6

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