

PRELIMINARY PLAN SUBMISSION MAJOR SUBDIVISION

FOR

“ CORNFORTH INDUSTRIAL PARK ”

ASSESSORS PLAT 1 LOT 459

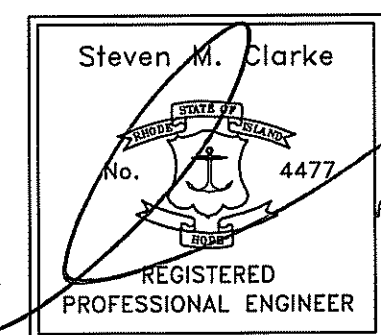
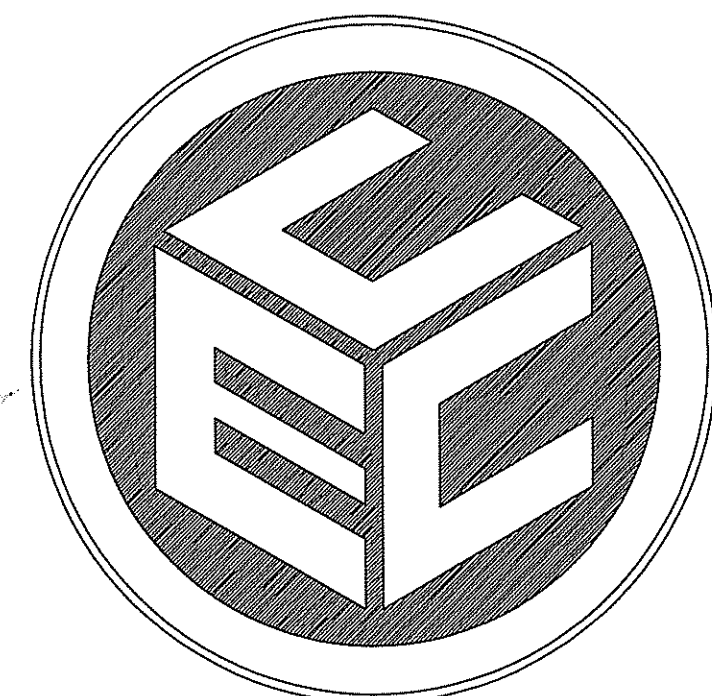
ON

QUAKER HIGHWAY (ROUTE 146A)

IN

NORTH SMITHFIELD, RHODE ISLAND

OWNER/APPLICANT
MR. JAMES CHACHARONE
THE ASTER GROUP
ONE WEST BOYLSTON STREET
SUITE LL05
WORCESTER, MA 01605



COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.

400 SMITH STREET
PROVIDENCE, RHODE ISLAND 02908

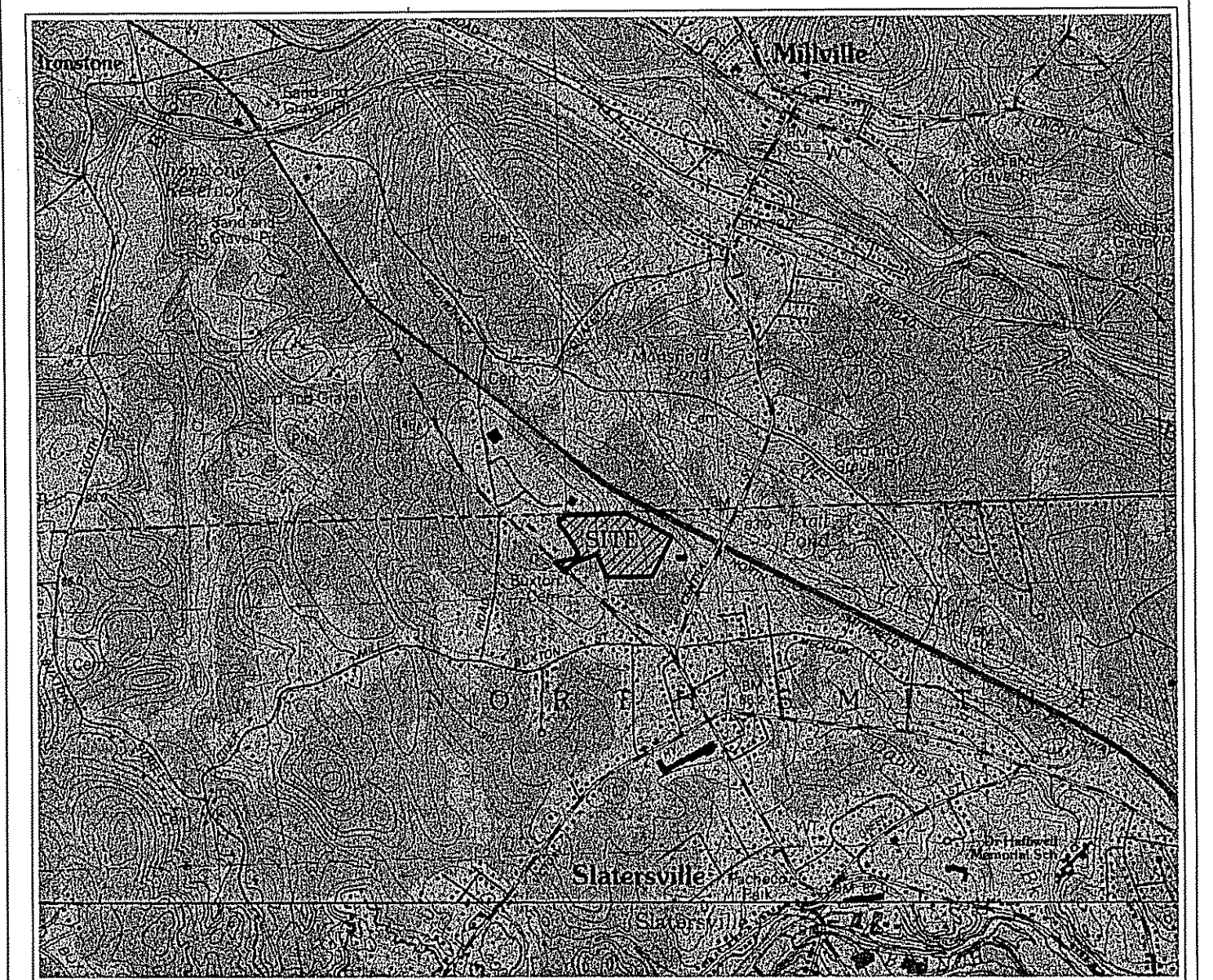
DECEMBER 28, 2010
REVISED: JANUARY 25, 2011
REVISED: FEBRUARY 2, 2011
REVISED: APRIL 5, 2011

MASTER PLAN APPROVED BY THE NORTH SMITHFIELD PLANNING BOARD ON JUNE 26, 2008. MASTER PLAN APPROVAL INCLUDED THE FOLLOWING CONDITIONS OR WAIVERS OF LAND DEVELOPMENT AND SUBDIVISION REGULATIONS:

- SECTION 5-13 CURB, SIDEWALKS AND PEDESTRIAN RIGHTS-OF-WAY
5 FOOT WIDE CONCRETE SIDEWALK TO BE INSTALLED ON THE NORTH SIDE OF THE PROPOSED ROADWAY EXTENDING AROUND CUL-DE-SAC AND TO REACH ALL PROPOSED SUBDIVISION LOTS.
- SECTION 5-7 STANDARDS FOR CONSTRUCTION OF PUBLIC IMPROVEMENTS, SUB-SECTION (A)3.
WAIVER TO INCREASE THE LENGTH OF THE CUL-DE-SAC ROAD BEYOND 600 FEET.

WAIVERS OF LAND DEVELOPMENT AND SUBDIVISION REGULATIONS REQUESTED AT PRELIMINARY PLAN STAGE:

- SECTION 5-14 DRAINAGE STRUCTURES AND FACILITIES SUBSECTION (F).
WAIVER TO ALLOW THE USE OF HIGH-DENSITY POLYETHYLENE (HDPE) PIPING FOR STORM DRAINAGE PIPING.
- PRELIMINARY PLAT CHECKLIST - MAJOR LAND DEVELOPMENT PROJECT SUBSECTION B. PROPOSED DESIGN CONDITIONS PLAN(S) 5.
WAIVER TO ALLOW LANDSCAPING PLAN NOT BE REQUIRED UNTIL LOT DEVELOPMENT.



LOCUS MAP
SCALE: 1"=2000'

LIST OF DRAWINGS MAJOR SUBDIVISION

- TITLE SHEET
- SITE BASE MAP (PLAN OF LAND)
- EXISTING RESOURCES AND SITE ANALYSIS MAP I
- EXISTING RESOURCES AND SITE ANALYSIS MAP II
- SITE CONTEXT MAP
- CONVENTIONAL SUBDIVISION
- SITE DEVELOPMENT PLAN
- ROADWAY PLAN & PROFILE
- EROSION CONTROL
- CONSTRUCTION DETAILS
- CONSTRUCTION DETAILS
- CONSTRUCTION DETAILS
- CONSTRUCTION DETAILS

PROJECT DATA

ASSESSORS REFERENCE:

A.P. 1 LOT 459 AREA=829,667 S.F. (19.05 ACRES)

ZONING REFERENCE:

M MANUFACTURING DISTRICT

MINIMUM DISTANCE OF STRUCTURE FROM RESIDENTIAL ZONE - 100 FEET
MINIMUM YARD DEPTH: FRONT - 40'
SIDE - 40'
REAR - 40'

MAXIMUM BUILDING HEIGHT - 35'
MAXIMUM FLOOR AREA RATIO - 1.00

PROPOSED DEVELOPMENT:

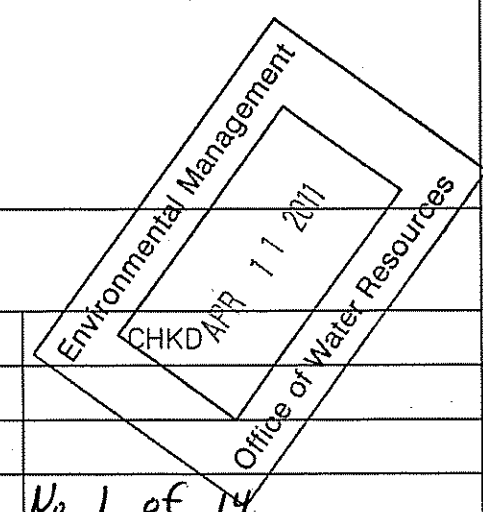
TOTAL NUMBER OF LOTS = 4
TOTAL AREA OF LOTS = 744,098 S.F.
TOTAL LENGTH OF ROADWAY = 663.05 FT.
TOTAL AREA OF ROADWAY = 41,861 S.F.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT,
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 16 2011 FILE # 10-0217
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Herbert

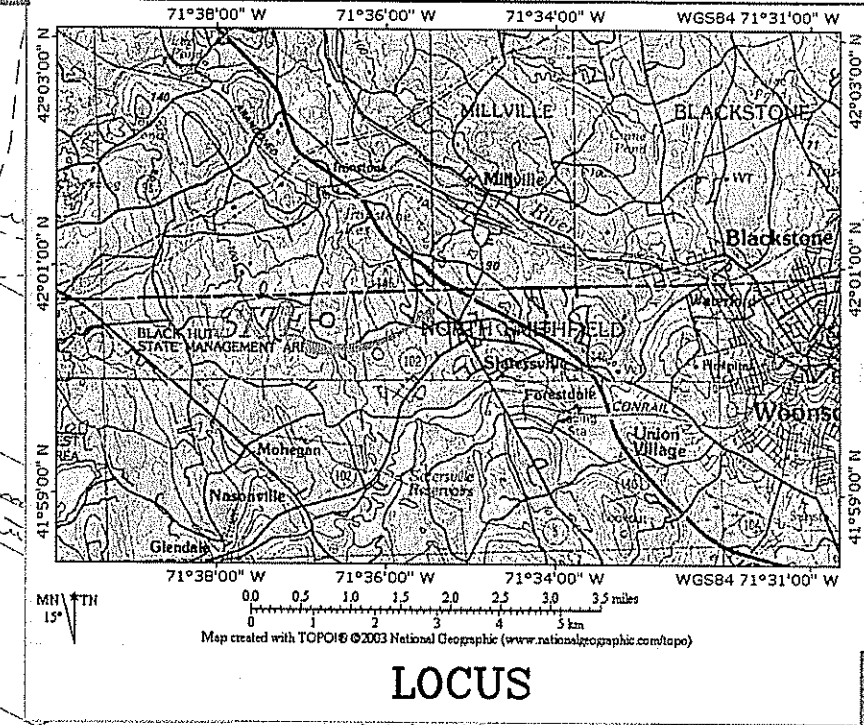
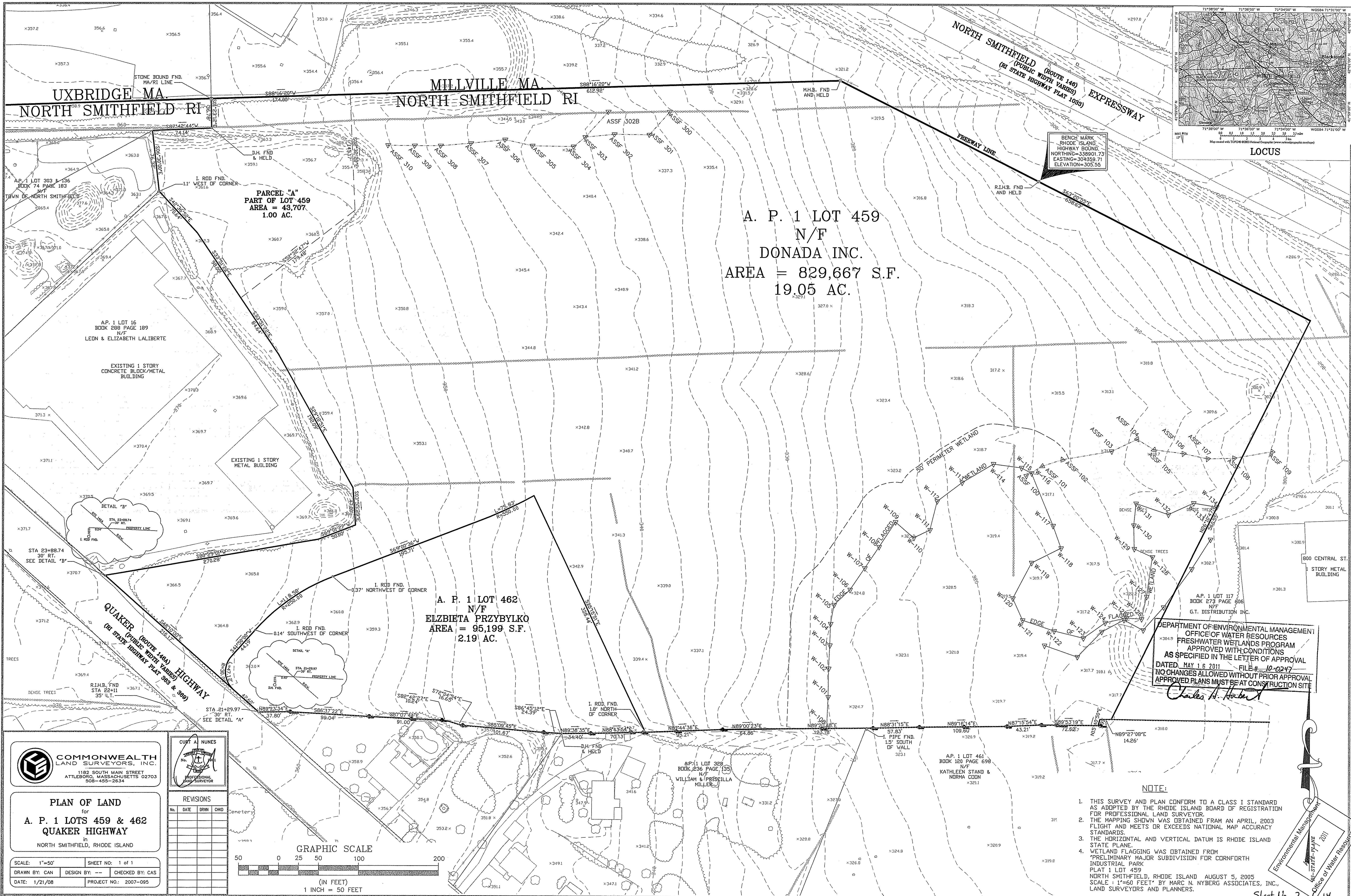
REVISIONS

No.	DATE	DRWN



No. 1 of 14

PROJECT NO. 10025



BENCH MARK
 RHODE ISLAND
 HIGHWAY BOUND.
 NORTHING=338901.73
 EASTING=304359.71
 ELEVATION=305.55

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAY 16 2011 FILE # 10-0247
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Horton

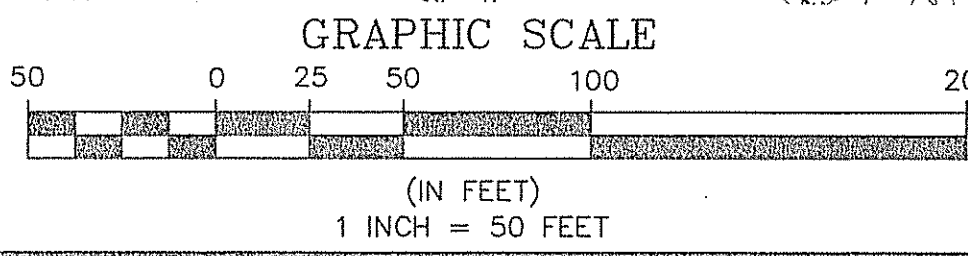
COMMONWEALTH LAND SURVEYORS, INC.
 1182 SOUTH MAIN STREET
 ATTLEBORO, MASSACHUSETTS 02703
 508-455-2634

PLAN OF LAND
 for
A. P. 1 LOTS 459 & 462
QUAKER HIGHWAY
 in
 NORTH SMITHFIELD, RHODE ISLAND

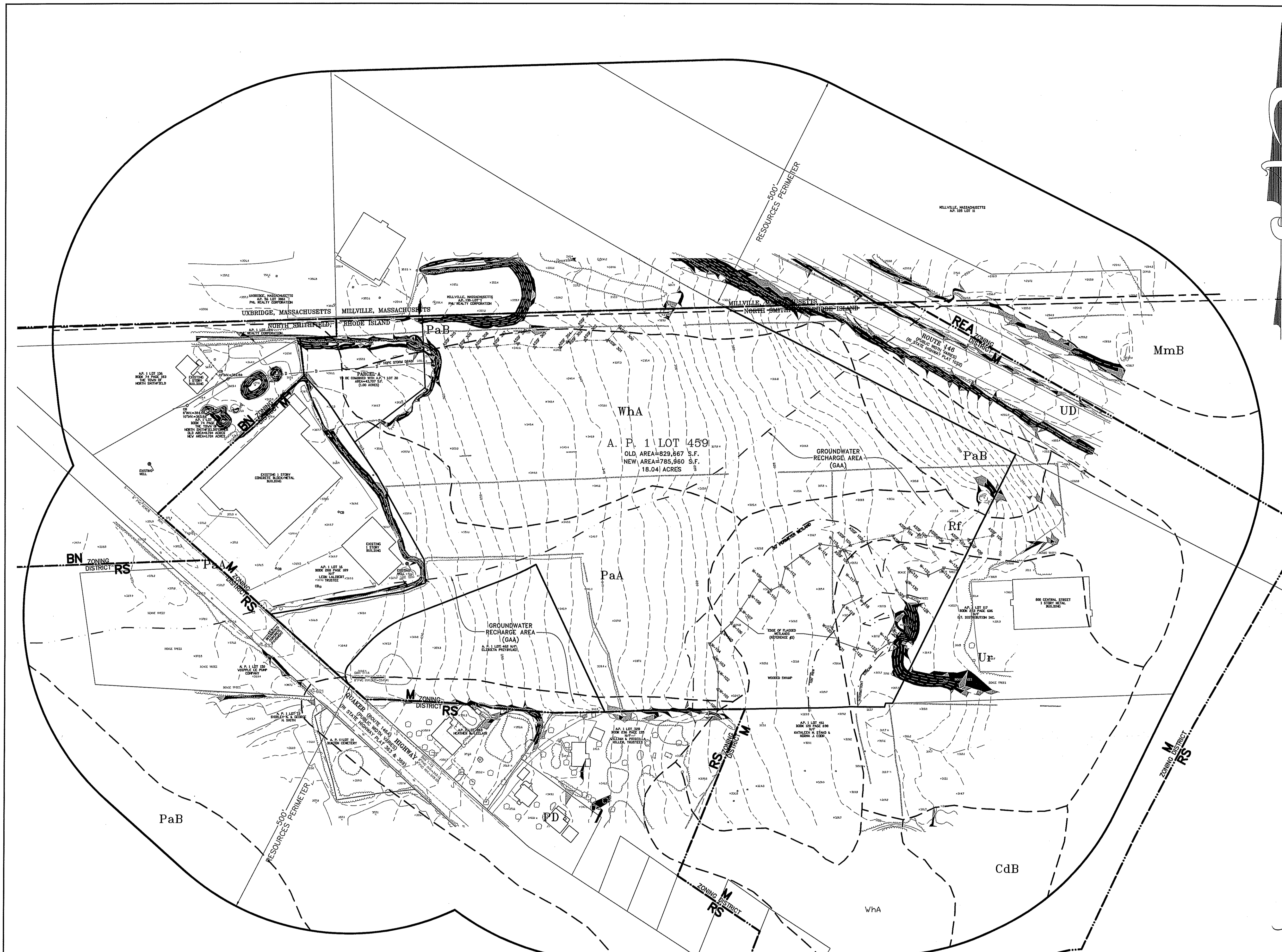
SCALE: 1"=50'
 SHEET No. 1 of 1
 DRAWN BY: CAN DESIGN BY: --- CHECKED BY: CAS
 DATE: 1/21/08 PROJECT NO.: 2007-095

CURT A. NUNES
 No. 1000
 PROFESSIONAL LAND SURVEYOR

NO.	DATE	DRN	OWN



- NOTE:**
- THIS SURVEY AND PLAN CONFORM TO A CLASS I STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYOR.
 - THE MAPPING SHOWN WAS OBTAINED FROM AN APRIL, 2003 FLIGHT AND MEETS OR EXCEEDS NATIONAL MAP ACCURACY STANDARDS.
 - THE HORIZONTAL AND VERTICAL DATUM IS RHODE ISLAND STATE PLANE.
 - WETLAND FLAGGING WAS OBTAINED FROM "PRELIMINARY MAJOR SUBDIVISION FOR CORNFORTH INDUSTRIAL PARK INDUSTRIAL PARK PLAT 1 LOT 459 NORTH SMITHFIELD, RHODE ISLAND AUGUST 5, 2005 SCALE: 1"=60 FEET" BY MARC N. NYBERG ASSOCIATES, INC., LAND SURVEYORS AND PLANNERS.
- Environmental Management
 44-STAR-PLATE
 Office of Water Resources
- Sheet No. 2 of 14



ASSESSORS REFERENCE:
A.P. 1 LOT 459

ZONING REFERENCE:
M MANUFACTURING DISTRICT
MINIMUM DISTANCE OF STRUCTURE FROM RESIDENTIAL ZONE - 100 FEET
MINIMUM YARD DEPTH: FRONT - 40'
SIDE - 40'
REAR - 40'

MAXIMUM BUILDING HEIGHT - 35'
MAXIMUM FLOOR AREA RATIO - 1.00

PLAN REFERENCE:

- PRELIMINARY MAJOR SUBDIVISION FOR CORNFORTH INDUSTRIAL PARK PLAT 1, LOT 459 NORTH SMITHFIELD, RHODE ISLAND DATE: AUGUST 5, 2005 - SCALE: 1"=50' PLANNERS BY: MARC N. NYBERG ASSOCIATES, INC. LAND SURVEYORS AND PLANNERS
- PREAPPLICATION MAJOR SUBDIVISION FOR CORNFORTH INDUSTRIAL PARK PLAT 1, LOT 459 NORTH SMITHFIELD, RHODE ISLAND DATE: JULY 27, 2006 - SCALE: 1"=50' PLANNERS BY: MARC N. NYBERG ASSOCIATES, INC. LAND SURVEYORS AND PLANNERS
- PLAN OF LAND FOR A.P. 1 LOTS 459 & 462 QUAKER HIGHWAY IN NORTH SMITHFIELD, RHODE ISLAND SCALE: 1"=50' DATE: 1-21-08 BY: COMMONWEALTH LAND SURVEYORS, INC.
- SEWER AS-BUILT RECORD PLAN DATED 6-1998 ON FILE AT THE NORTH SMITHFIELD WATER/WASTEWATER DEPARTMENT OF PUBLIC WORKS

BENCH MARK:
RHODE ISLAND HIGHWAY BOUND
NORTHING=338901.73
EASTING=304359.71
ELEVATION=305.55
HORIZONTAL DATUM = NAD 83
VERTICAL DATUM = NGVD 1929

SOIL CLASSIFICATION:
PaA - Paxton fine sandy loam, 0 to 3 percent slopes.
PaB - Paxton fine sandy loam, 3 to 8 percent slopes.
Rf - Ridgebury - Whitman, and Leicester extremely stony fine sandy loams, 0 to 3 percent slopes.
Ur - Urban Land, 0 to 10 percent slopes.
Wha - Woodbridge fine sandy loam, 0 to 3 percent slopes.

NOTE:
1. TOPOGRAPHIC MAPPING WITHIN THE SITE AND A MINIMUM OF 100 FEET BEYOND HAS BEEN PREPARED FROM STEREOSCOPIC AERIAL PHOTOGRAMMETRY AND IS BASED ON U.S.G.S. BENCHMARKS (NGVD OF 1929).

NATURAL RESOURCES INVENTORY:

- THE SITE IS LOCATED WITHIN A GROUND WATER AQUIFER OVERLAY DISTRICT AREA AS DEFINED ON MAP 6-3A WATER RESOURCES OF THE TOWN OF NORTH SMITHFIELD COMPREHENSIVE PLAN AND THE STATE OF RHODE ISLAND GEOGRAPHIC INFORMATION SYSTEM.
- THE SITE IS LOCATED WITHIN ZONE X (AREA DETERMINED TO BE OUTSIDE OF THE 500 YEAR FLOOD ZONE) AS SHOWN ON FIRM 440021 0005 C MAP REVISED DECEMBER 3, 1993.
- THE SUBJECT PROPERTY CONTAINS NO NATURAL HERITAGE AREAS AS IDENTIFIED BY THE STATE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
- THE SUBJECT PROPERTY CONTAINS NO PROPOSED AREAS FOR EXISTING OF FUTURE GREENWAYS AS IDENTIFIED WITHIN THE TOWN COMPREHENSIVE PLAN.
- THE SUBJECT PARCEL IS LOCATED WITHIN THE BRANCH RIVER WATERSHED SUB-BASIN.

LAND AREA REFERENCE:
TOTAL PARCEL AREA = 829,667 S.F.
TOTAL WETLAND AREA = 151,558 S.F.
(INCLUDES APPLICABLE WETLANDS PERMITTED)
TOTAL EASEMENT AREA = 43,707 S.F. (OFFICE OF ENVIRONMENTAL MANAGEMENT)
TOTAL AREA AT 20% SLOPE OR GREATER = 5,000 S.F. (OFFICE OF WATER RESOURCES)
(EXCLUDES SLOPES WITHIN WETLAND AND PRELIMINARY WETLANDS PROGRAM)
TOTAL LAND SUITABLE FOR DEVELOPMENT = 867,835 S.F. WITH CONDITIONS
TOTAL LAND SUITABLE FOR DEVELOPMENT AS SPECIFIED IN THE LETTER OF APPROVAL

DATED MAY 16 2011 FILE # 10-0247
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles H. Harker

**PRELIMINARY PLAN
CORNFORTH INDUSTRIAL PARK**

Steven M. Clarke
No. 4477
REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH ENGINEERS & CONSULTANTS, INC.
400 SMITH STREET
PROVIDENCE, RHODE ISLAND 02908
401-275-6600

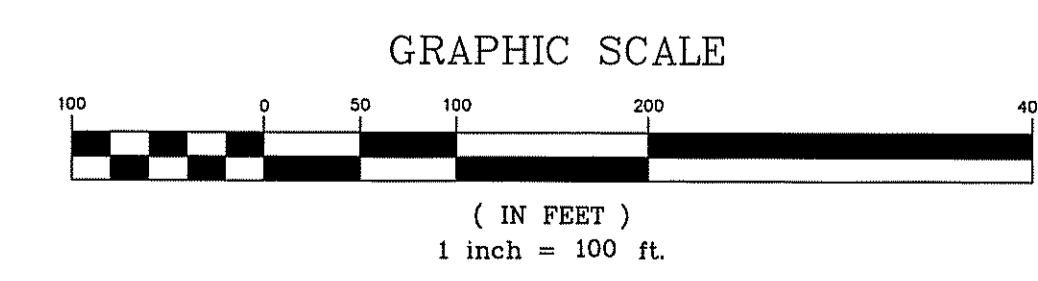
REVISIONS

No.	DATE	DRWN	CHKD
1.	4/5/11	JAR	SMC

EXISTING RESOURCES AND SITE ANALYSIS MAP - I
for
**A.P.1 LOT 459
QUAKER HIGHWAY**
in
NORTH SMITHFIELD, RHODE ISLAND

SCALE: 1"=100'
SHEET NO. 2 of 2
DRAWN BY: JP DESIGN BY: JP CHECKED BY: SMC
DATE: 12/28/10 PROJECT NO.: 100250

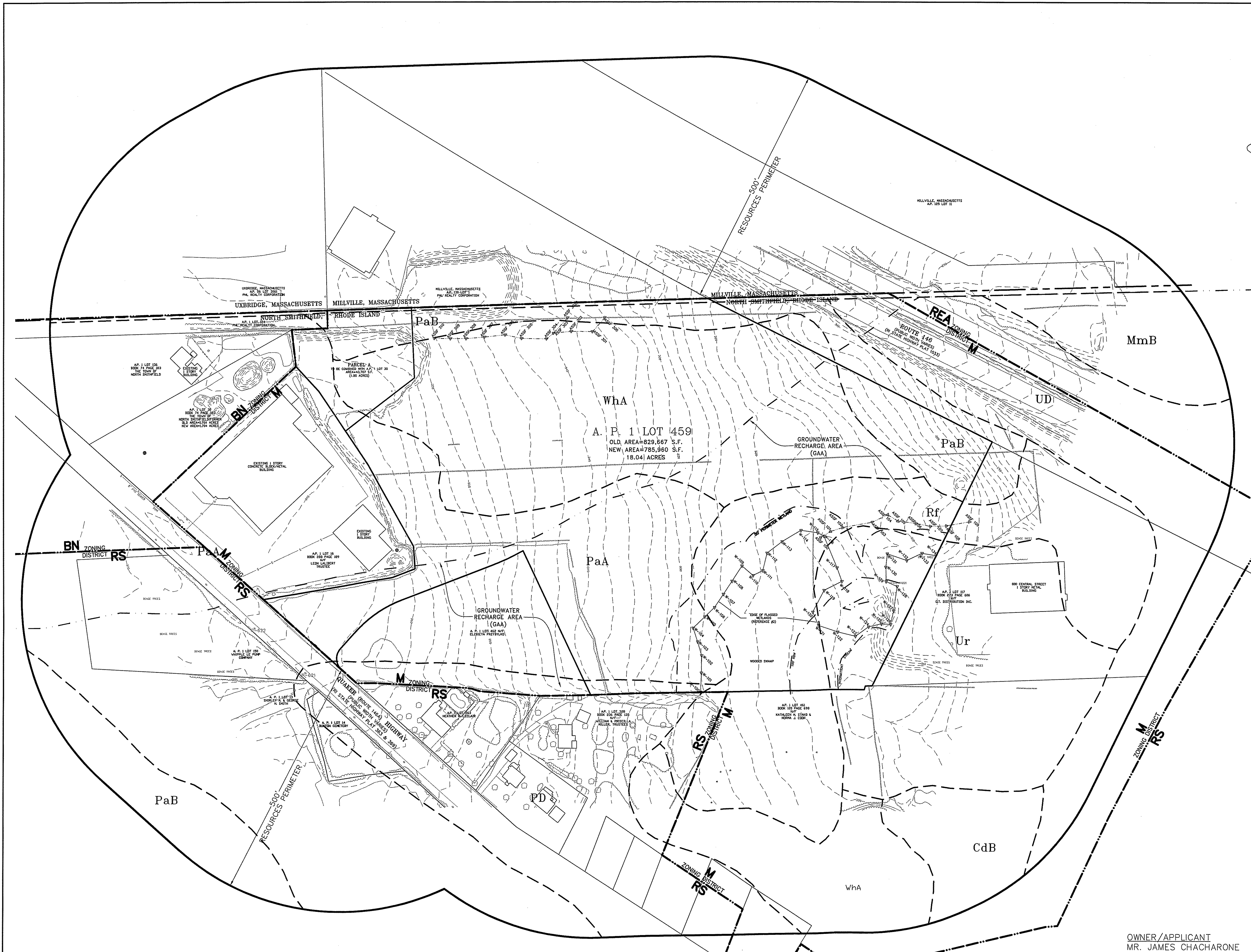
OWNER/APPLICANT
MR. JAMES CHACHARONE
THE ASTER GROUP
ONE WEST BOYLSTON STREET
SUITE LL05
WORCESTER, MA 01605



LEGEND

PERIMETER LINE	STONE WALL	100 FT WETLAND	ELECTRIC, TELE, CABLE LINE	ETC	SEWERLINE
ABUTTER LINE	RETAINING WALL	200 FT WETLAND	LIGHT POLE	OHV	SEWER FORCE MAIN
PROPOSED LOT LINE	TEST HOLE	SURVEY BOUND	OVERHEAD WIRE	F	GAS LINE
BUILDING	LEDGE TEST	SURVEY DRILL HOLE	FIRE SERVICE LINE	□	GAS VALVE
RIGHT OF WAY LINE	FENCE (CHAINLINK)	SURVEY IRON ROD	CATCH BASIN	○	LIMIT OF DISTURBANCE
DIRT(GRAVEL) DRIVE(ROAD)	FENCE (RAIL)	SURVEY IRON PIN	DRAIN MANHOLE	○	HAYBALE LINE
EDGE OF ROAD PAVEMENT	GUARDRAIL (STEEL)	SURVEY BENCHMARK	DRAINLINE	○	SILT FENCE LINE
ROADWAY CENTERLINE	GUARDRAIL (TIMBER)	UTILITY POLE	UNDERDRAIN LINE	○	HAYBALE & SILT FENCE LINE
ROADWAY STATION	EASEMENT	SIGN	WATER SHUTOFF	○	ZONING LINE
TREELINE	BUILDING SETBACK	SAWCUT	HYDRANT	○	
SCRUBLINE	CONTOUR	SHEETING	WATERLINE	○	
SHRUBLINE	SPOT GRADE	CABLE LINE	WELL	○	
TREE	WETLAND EDGE	ELECTRIC LINE	WATER GATE VALVE	○	
SHRUB	50 FT WETLAND	TELEPHONE LINE	SEWER MANHOLE	○	

A:\0004\100250\00 Commonw Industrial Parks\Current Drawings\Site\Current Drawings\100250-Cornwob-Preliminary & Ibl-1- Revised 3-11-11.dwg, 4/29/2011, 11:02:29 AM, Revov.dwg



SOIL CLASSIFICATION:
 PaA - Paxton fine sandy loam, 0 to 3 percent slopes.
 PaB - Paxton fine sandy loam, 3 to 8 percent slopes.
 Rf - Ridgebury - Whitman, and Leicester extremely stony fine sandy loams, 0 to 3 percent slopes.
 Ur - Urban Land, 0 to 10 percent slopes.
 WhA - Woodbridge fine sandy loam, 0 to 3 percent slopes.

- NATURAL RESOURCES INVENTORY:**
1. THE SITE IS PARTIALLY LOCATED WITHIN THE GROUND WATER RECHARGE AREA AS DEFINED ON MAP G-3A WATER RESOURCES OF THE TOWN OF NORTH SMITHFIELD COMPREHENSIVE PLAN AND THE STATE OF RHODE ISLAND GEOGRAPHIC INFORMATION SYSTEM.
 2. THE SITE IS LOCATED WITHIN ZONE X (AREA DETERMINED TO BE OUTSIDE OF THE 500 YEAR FLOOD ZONE) AS SHOWN ON FIRM 440021 0005 C MAP REVISED DECEMBER 3, 1993.
 3. THE SUBJECT PROPERTY CONTAINS NO NATURAL HERITAGE AREAS AS IDENTIFIED BY THE STATE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
 4. THE SUBJECT PROPERTY CONTAINS NO PROPOSED AREAS FOR EXISTING OF FUTURE GREENWAYS AS IDENTIFIED WITHIN THE TOWN COMPREHENSIVE PLAN.
 5. THE SUBJECT PARCEL IS LOCATED WITHIN THE BRANCH RIVER WATERSHED SUB-BASIN.
 6. NO HISTORICAL CEMETERIES EXIST ON THE SITE.

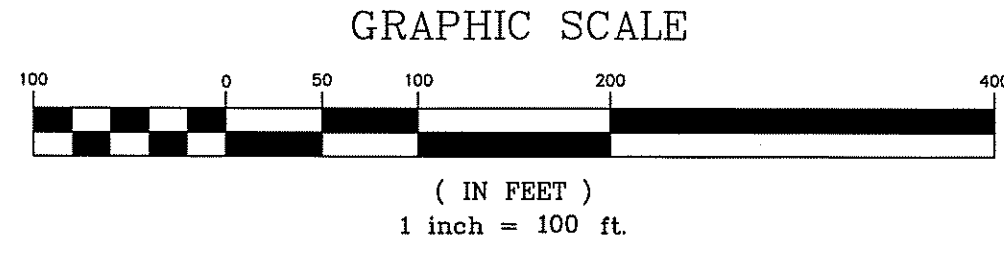
A.P. 1 LOT 459
 OLD AREA=829,667 S.F.
 NEW AREA=785,960 S.F.
 18.04 ACRES

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAY 16 2011 FILE # 10-0247
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Charles A. Harker

PRELIMINARY PLAN
 CORNFORTH INDUSTRIAL PARK

OWNER/APPLICANT
 MR. JAMES CHACHARONE
 THE ASTER GROUP
 ONE WEST BOYLSTON STREET
 SUITE LL05
 WORCESTER, MA 01605



Steven M. Clarke
 No. 4277
 REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH
 ENGINEERS & CONSULTANTS, INC.
 400 SMITH STREET
 PROVIDENCE, RHODE ISLAND 02908
 401-273-6600

REVISIONS

No.	DATE	DRWN	CHKD
1.	4/5/11	JAR	SMC

EXISTING RESOURCES AND
 SITE ANALYSIS MAP - II
 for
 A.P.1 LOT 459
 QUAKER HIGHWAY
 in
 NORTH SMITHFIELD, RHODE ISLAND

SCALE: 1"=100' SHEET NO. 1 of 2
 DRAWN BY: JP DESIGN BY: JP CHECKED BY: JMC
 DATE: 12/28/10 PROJECT NO.: 100250

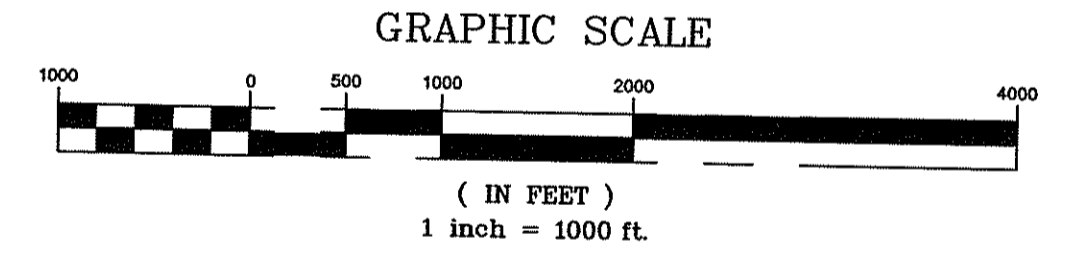
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TOWN ZONING DESIGNATIONS

DESIGNATION	DISTRICT
REA	REA-120 RESIDENTIAL DISTRICT
RA	RA-65 RESIDENTIAL DISTRICT
RS	RS-40 RESIDENTIAL DISTRICT
RU	RU-20 RESIDENTIAL DISTRICT
PS	PS PROFESSIONAL DISTRICT
BH	BH BUSINESS DISTRICT
BN	BN BUSINESS DISTRICT
M	M MANUFACTURING DISTRICT
LC	LC LIMITED COMMERCIAL

NOTE:
 MAP COMPILED FROM USGS QUADRANGLES AND TOWN ZONING MAP



OWNER / APPLICANT
 MR. JAMES CHACHARONE
 THE ASTER GROUP
 ONE WEST BOYLSTON STREET
 SUITE LL05
 WORCESTER, MA 01605

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James H. Hovde

**PRELIMINARY PLAN
 CORNFORTH INDUSTRIAL PARK**

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 REGISTERED PROFESSIONAL ENGINEER

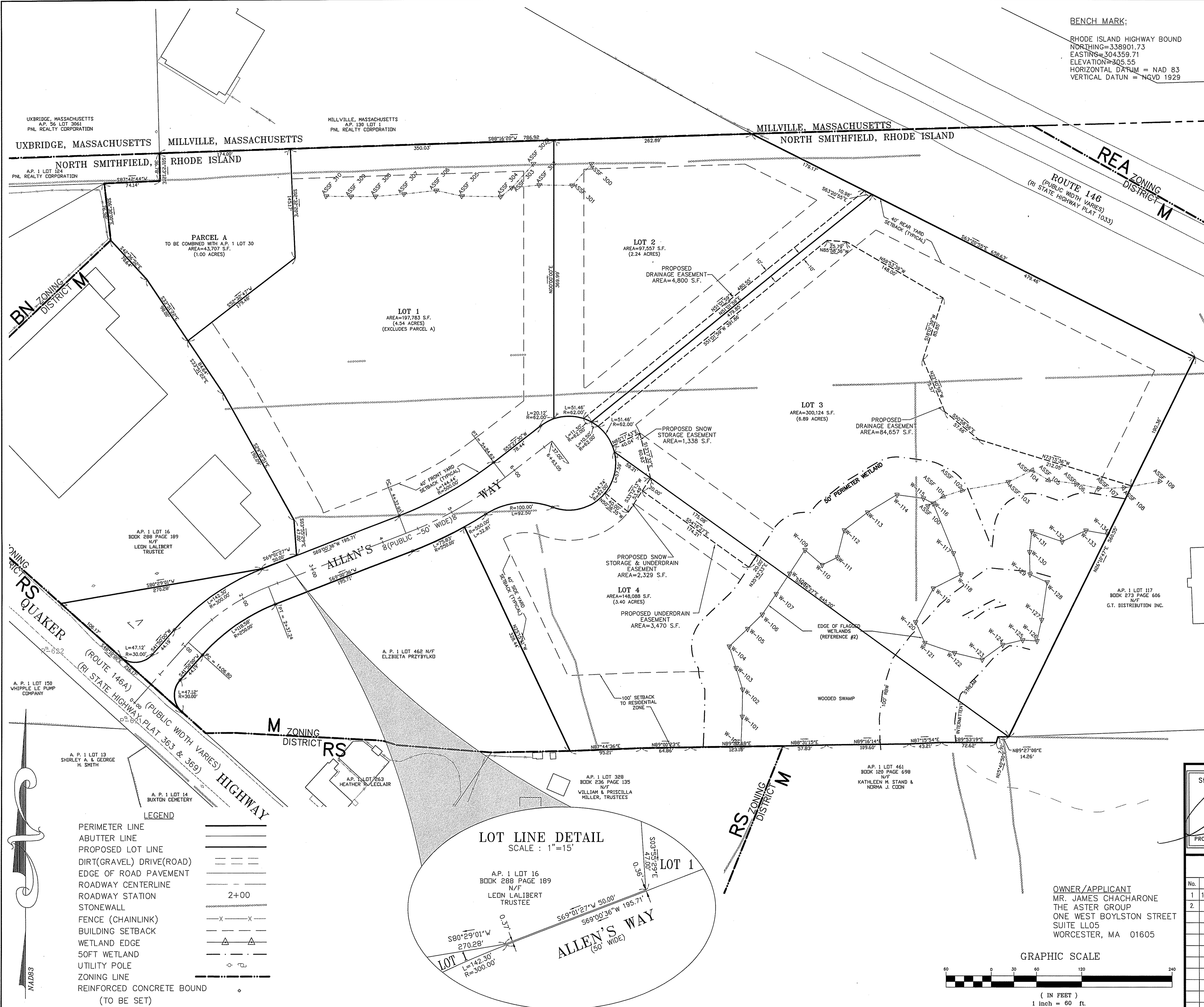
COMMONWEALTH
 ENGINEERS & CONSULTANTS, INC.
 400 SMITH STREET
 PROVIDENCE, RHODE ISLAND 02908
 401-273-6600

REVISIONS

No.	DATE	DRWN	CHKD

SITE CONTEXT MAP
 for
A.P.1 LOT 459
QUAKER HIGHWAY
 in
 NORTH SMITHFIELD, RHODE ISLAND

SCALE: 1"=1,000'
 SHEET NO: 5 of 14
 DRAWN BY: JP DESIGN BY: N/A CHECKED BY: SMC
 DATE: 12/28/10 PROJECT NO.: 10025



BENCH MARK:
 RHODE ISLAND HIGHWAY BOUND
 NORTHING=338901.73
 EASTING=304359.71
 ELEVATION=305.55
 HORIZONTAL DATUM = NAD 83
 VERTICAL DATUM = NGVD 1929

ASSESSORS REFERENCE:
 A.P. 1 LOT 459

ZONING REFERENCE:
 M MANUFACTURING DISTRICT
 MINIMUM DISTANCE OF STRUCTURE FROM RESIDENTIAL ZONE - 100 FEET
 MINIMUM YARD DEPTH: FRONT - 40'
 SIDE - 40'
 REAR - 40'

MAXIMUM BUILDING HEIGHT - 35'
 MAXIMUM FLOOR AREA RATIO - 1.00

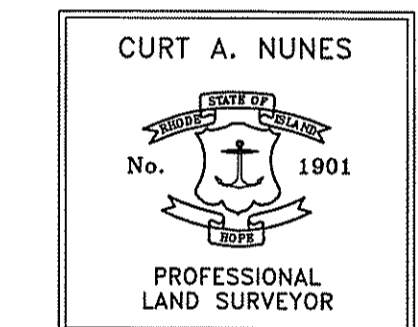
PLAN REFERENCE:

- PRELIMINARY MAJOR SUBDIVISION FOR CORNFORTH INDUSTRIAL PARK PLAT 1, LOT 459 NORTH SMITHFIELD, RHODE ISLAND DATE: AUGUST 5, 2005 - SCALE: 1 INCH EQUALS 60 FEET BY: MARC N. NYBERG ASSOCIATES, INC. LAND SURVEYORS AND PLANNERS
- PREAPPLICATION MAJOR SUBDIVISION FOR CORNFORTH INDUSTRIAL PARK PLAT 1, LOT 459 NORTH SMITHFIELD, RHODE ISLAND DATE: JULY 27, 2006 - SCALE: 1 INCH EQUALS 60 FEET BY: MARC N. NYBERG ASSOCIATES, INC. LAND SURVEYORS AND PLANNERS
- PLAN OF LAND FOR A.P. 1 LOTS 459 & 462 QUAKER HIGHWAY IN NORTH SMITHFIELD, RHODE ISLAND SCALE: 1"=50' DATE: 1-21-08 BY: COMMONWEALTH LAND SURVEYORS, INC.

THIS SURVEY AND PLAN CONFORM TO A CLASS I STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF PROFESSIONAL LAND SURVEYORS. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE FINDINGS SUCH A REPORT MIGHT DISCLOSE.

THIS SURVEY AND PLAN WAS PERFORMED UNDER THE DIRECT SUPERVISION OF COMMONWEALTH LAND SURVEYORS, INC.

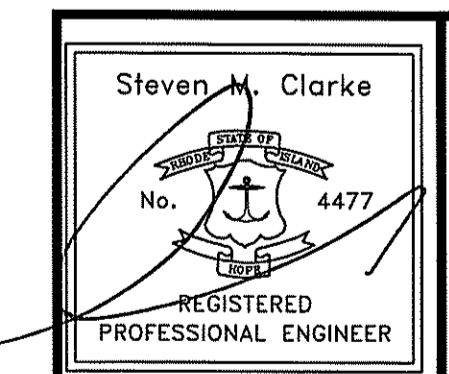
REGISTERED LAND SURVEYOR _____ DATE _____



COMMONWEALTH LAND SURVEYORS, INC.
 1182 SOUTH MAIN STREET
 ATTLEBORO, MASSACHUSETTS 02703
 (508) 352-1111

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 C.O. FRESHWATER WETLANDS PROGRAM
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Charles H. Horne

**PRELIMINARY PLAN
 CORNFORTH INDUSTRIAL PARK**



COMMONWEALTH ENGINEERS & CONSULTANTS, INC.
 400 SMITH STREET
 PROVIDENCE, RHODE ISLAND 02908
 401-273-6600

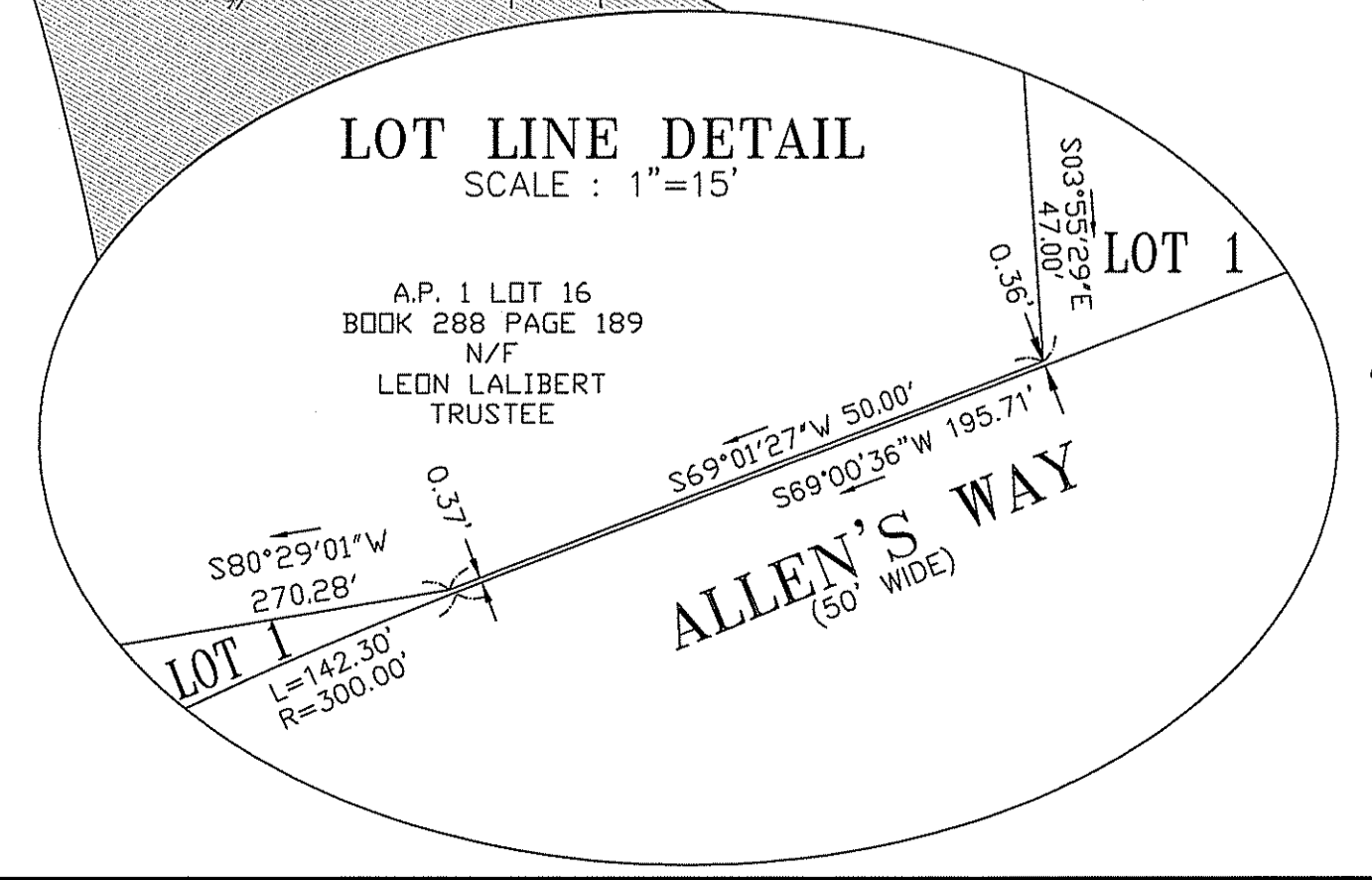
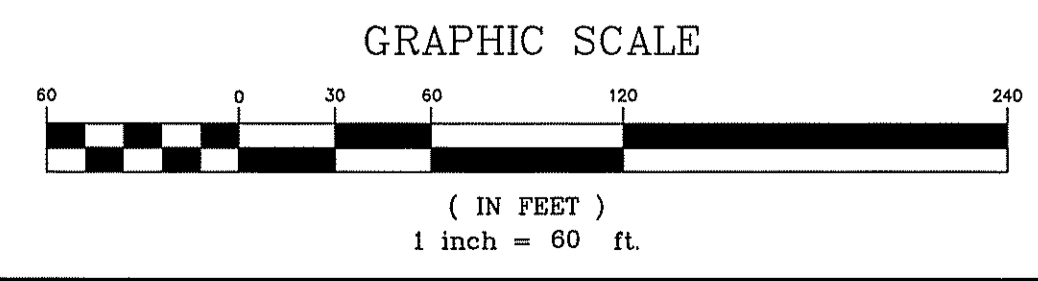
REVISIONS

No.	DATE	DRWN	CHKD
1	1/25/11	JP	JAR
2	4/5/11	JAR	SMC

**CONVENTIONAL SUBDIVISION
 LOT LAYOUT**
 for
**A.P.1 LOT 459
 QUAKER HIGHWAY**
 in
 NORTH SMITHFIELD, RHODE ISLAND

SCALE: 1"=60' SHEET NO: 6 of 14
 DRAWN BY: JP DESIGN BY: N/A CHECKED BY: CAN
 DATE: 12/28/10 PROJECT NO.: 10025

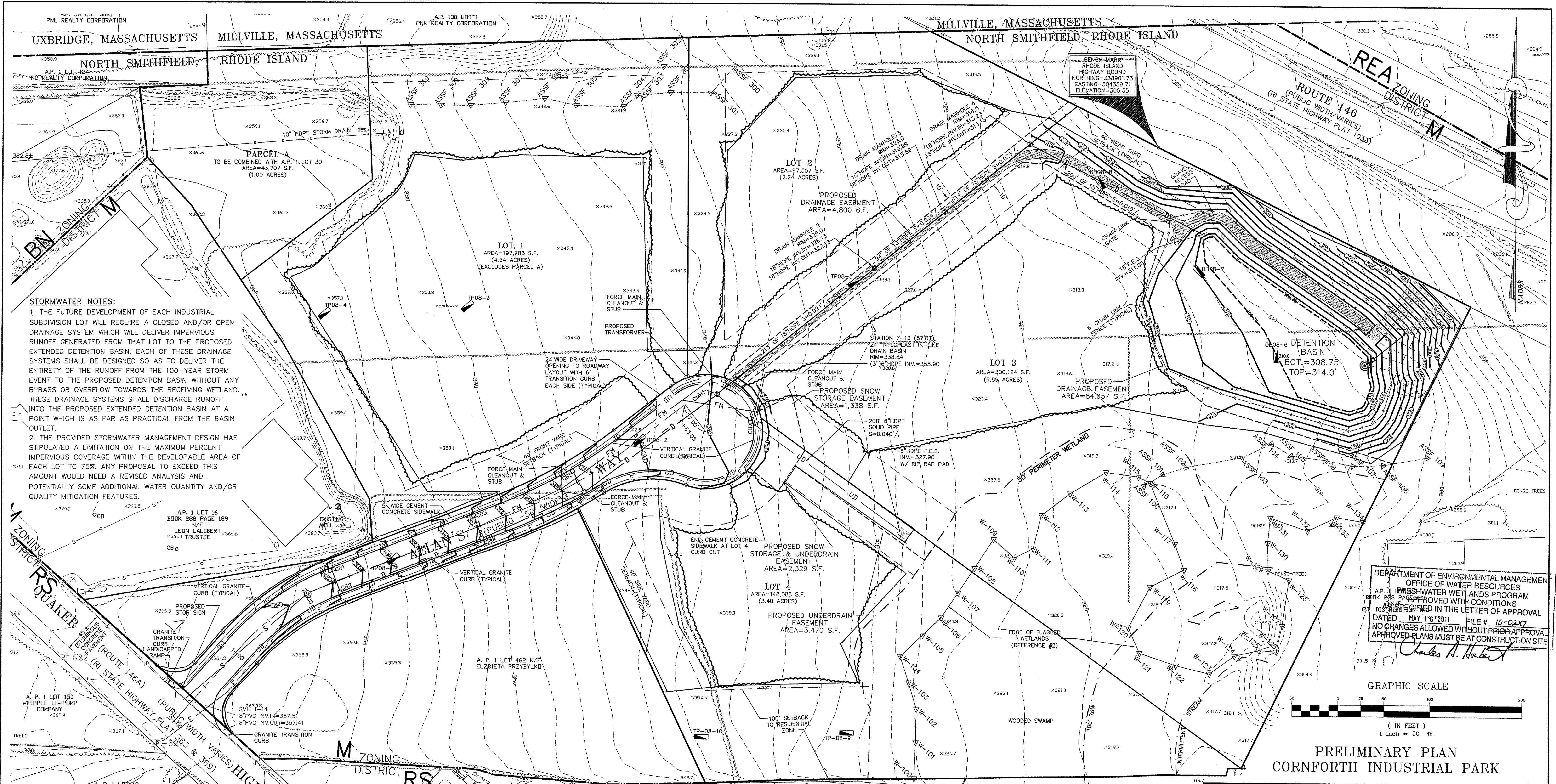
OWNER/APPLICANT
 MR. JAMES CHACHARONE
 THE ASTER GROUP
 ONE WEST BOYLSTON STREET
 SUITE 1105
 WORCESTER, MA 01605



LEGEND

PERIMETER LINE	---
ABUTTER LINE	---
PROPOSED LOT LINE	---
DIRT(GRAVEL) DRIVE(ROAD)	---
EDGE OF ROAD PAVEMENT	---
ROADWAY CENTERLINE	---
ROADWAY STATION	2+00
STONEWALL	---
FENCE (CHAINLINK)	-x-x-
BUILDING SETBACK	---
WETLAND EDGE	---
50FT WETLAND	---
UTILITY POLE	o
ZONING LINE	---
REINFORCED CONCRETE BOUND (TO BE SET)	o

A:\Users\jwz\OneDrive\Documents\Drawings\10025-Cornforth-Industrial-Park-2011\10025-06.dwg, 1/13/2011 11:10:36 AM, Rev002

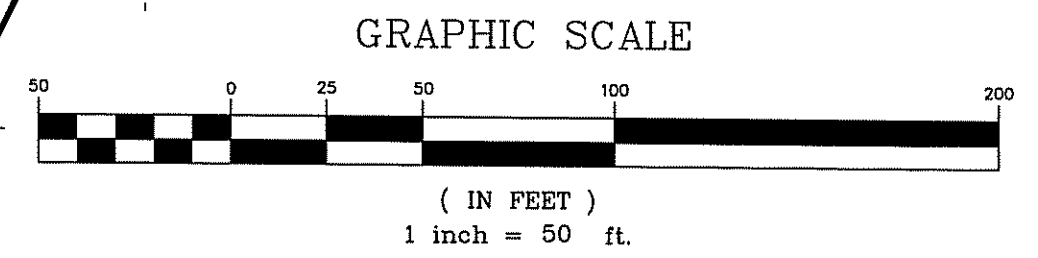


STORMWATER NOTES:

1. THE FUTURE DEVELOPMENT OF EACH INDUSTRIAL SUBDIVISION LOT WILL REQUIRE A CLOSED AND/OR OPEN DRAINAGE SYSTEM WHICH WILL DELIVER IMPERVIOUS RUNOFF GENERATED FROM THAT LOT TO THE PROPOSED EXTENDED DETENTION BASIN. EACH OF THESE DRAINAGE SYSTEMS SHALL BE DESIGNED SO AS TO DELIVER THE ENTIRETY OF THE RUNOFF FROM THE 100-YEAR STORM EVENT TO THE PROPOSED DETENTION BASIN WITHOUT ANY BYPASS OR OVERFLOW TOWARDS THE RECEIVING WETLAND. THESE DRAINAGE SYSTEMS SHALL DISCHARGE RUNOFF INTO THE PROPOSED EXTENDED DETENTION BASIN AT A POINT WHICH IS AS FAR AS PRACTICAL FROM THE BASIN OUTLET.
2. THE PROVIDED STORMWATER MANAGEMENT DESIGN HAS STIPULATED A LIMITATION ON THE MAXIMUM PERCENT IMPERVIOUS COVERAGE WITHIN THE DEVELOPABLE AREA OF EACH LOT TO 75%. ANY PROPOSAL TO EXCEED THIS AMOUNT WOULD NEED A REVISED ANALYSIS AND POTENTIALLY SOME ADDITIONAL WATER QUANTITY AND/OR QUALITY MITIGATION FEATURES.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
AS SHOWN AND APPROVED WITH CONDITIONS
G.T. DISTRICT ENGINEER IN THE LETTER OF APPROVAL
DATED MAY 16th 2011 FILE # 10-0247
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Horvath



**PRELIMINARY PLAN
CORNFORTH INDUSTRIAL PARK**

LEGEND

PERIMETER LINE	SPOT GRADE	x123.0
ABUTTER LINE	WETLAND EDGE	—▲—▲—
PROPOSED LOT LINE	SOFT WETLAND	- - -
DIRT(GRAVEL) DRIVE(ROAD)	UTILITY POLE	—○—○—
EDGE OF ROAD PAVEMENT	SIGN	+ + +
ROADWAY CENTERLINE	LIGHT POLE	—*—*
ROADWAY STATION	OVERHEAD WIRE	—DHW—
TREELINE	CATCH BASIN	—□—
SCRUBLINE	DRAIN MANHOLE	—○□—
SHRUBLINE	DRAINLINE	—D—
TREE	SEWER FORCE MAIN	—FM—
SHRUB	UNDERGROUND ELECTRIC	—E—
STONEWALL	PHONE, FIRE ALARM & CABLE TV	—□—
RETAINING WALL	PROPOSED CONTOUR	—(350)—
FENCE (CHAINLINK)	REINFORCED CONCRETE BOUND	—○—
BUILDING SETBACK	(TO BE SET)	
CONTOUR	PROPOSED LIGHT POLE	—☆—
	PROPOSED LIMIT OF CLEARING	
	(INDIVIDUAL LOT CONSTRUCTION)	

PLAN REFERENCE:

1. PRELIMINARY MAJOR SUBDIVISION FOR CORNFORTH INDUSTRIAL PARK PLAT 1, LOT 459 NORTH SMITHFIELD, RHODE ISLAND DATE: AUGUST 5, 2005 - SCALE: 1"=60 FEET BY: MARC N. NYBERG ASSOCIATES, INC. LAND SURVEYORS AND PLANNERS
2. PREAPPLICATION MAJOR SUBDIVISION FOR CORNFORTH INDUSTRIAL PARK PLAT 1, LOT 459 NORTH SMITHFIELD, RHODE ISLAND DATE: JULY 27, 2006 - SCALE: 1"=60 FEET BY: MARC N. NYBERG ASSOCIATES, INC. LAND SURVEYORS AND PLANNERS
3. PLAN OF LAND FOR A.P. 1 LOTS 459 & 462 QUAKER HIGHWAY IN NORTH SMITHFIELD, RHODE ISLAND SCALE: 1"=50' DATE: 1-21-08 BY: COMMONWEALTH LAND SURVEYORS, INC.

TEST HOLE DATA:

TEST HOLE #	EXISTING GRADE	GROUND WATER	REFUSAL	BOTTOM
TP-08-1	358.0	355.0		351.0
TP-08-2	342.5	339.5	NONE	331.5
TP-08-3	349.0	346.0	NONE	338.0
TP-08-4	357.3	354.3	347.3	347.3
TP-08-5	330.2	327.2	NONE	320.2
DB-08-6	310.8	307.55	NONE	299.8
DB-08-7	312.0	308.75	NONE	301.2
DB-08-8	311.8	308.8	NONE	300.8

ASSESSORS REFERENCE:

A.P. 1 LOT 459
ZONING REFERENCE:
M MANUFACTURING DISTRICT

MINIMUM DISTANCE OF STRUCTURE FROM RESIDENTIAL ZONE-100 FEET

MINIMUM YARD DEPTH: FRONT - 40'
SIDE - 40'
REAR - 40'

MAXIMUM BUILDING HEIGHT - 35'
MAXIMUM FLOOR AREA RATIO - 1.00

NOTE:
1. TOPOGRAPHIC MAPPING WITHIN THE SITE AND A MINIMUM OF 100 FEET BEYOND HAS BEEN PREPARED FROM STEREOSCOPIC AERIAL PHOTOGRAMMETRY AND IS BASED ON U.S.G.S. BENCHMARKS (NGVD OF 1929).
2. HORIZONTAL DATUM IS BASED ON NAD 83.

OWNER/APPLICANT
MR. JAMES CHACHARONE
THE ASTER GROUP
ONE WEST BOYLSTON STREET
SUITE LL05
WORCESTER, MA 01605

UTILITY NOTES:

1. EACH LOT WILL BE SERVICED BY INDIVIDUAL SEWAGE EJECTOR PUMPS WITH DISCHARGE TO THE PROPOSED LOW PRESSURE FORCE MAIN IN ALLAN'S WAY (EVENTUAL CONNECTION IS TO THE GRAVITY SEWER IN QUAKER HIGHWAY).
2. THE PROPOSED LOTS WILL BE SERVICED BY INDIVIDUAL DRINKING WATER WELLS.
3. STORM WATER CONTROL FOR EACH INDIVIDUAL LOT SHALL BE VIA THE PROPOSED DETENTION BASIN AND ALL CONSTRUCTION ON EACH INDIVIDUAL LOT SHALL BE LIMITED TO THE LIMIT OF DISTURBANCE SHOWN HEREON. ANY DEVIATION FROM THE ABOVE WILL REQUIRE THE INDIVIDUAL LOT OWNERS TO APPLY FOR A NEW PERMIT WITH RIDEM FRESHWATER WETLANDS.
4. ELECTRIC, & TELEPHONE SERVICES TO BE INSTALLED UNDERGROUND IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE RESPECTIVE UTILITY COMPANIES.

Sleever M. Clarke
No. 4477
REGISTERED PROFESSIONAL ENGINEER

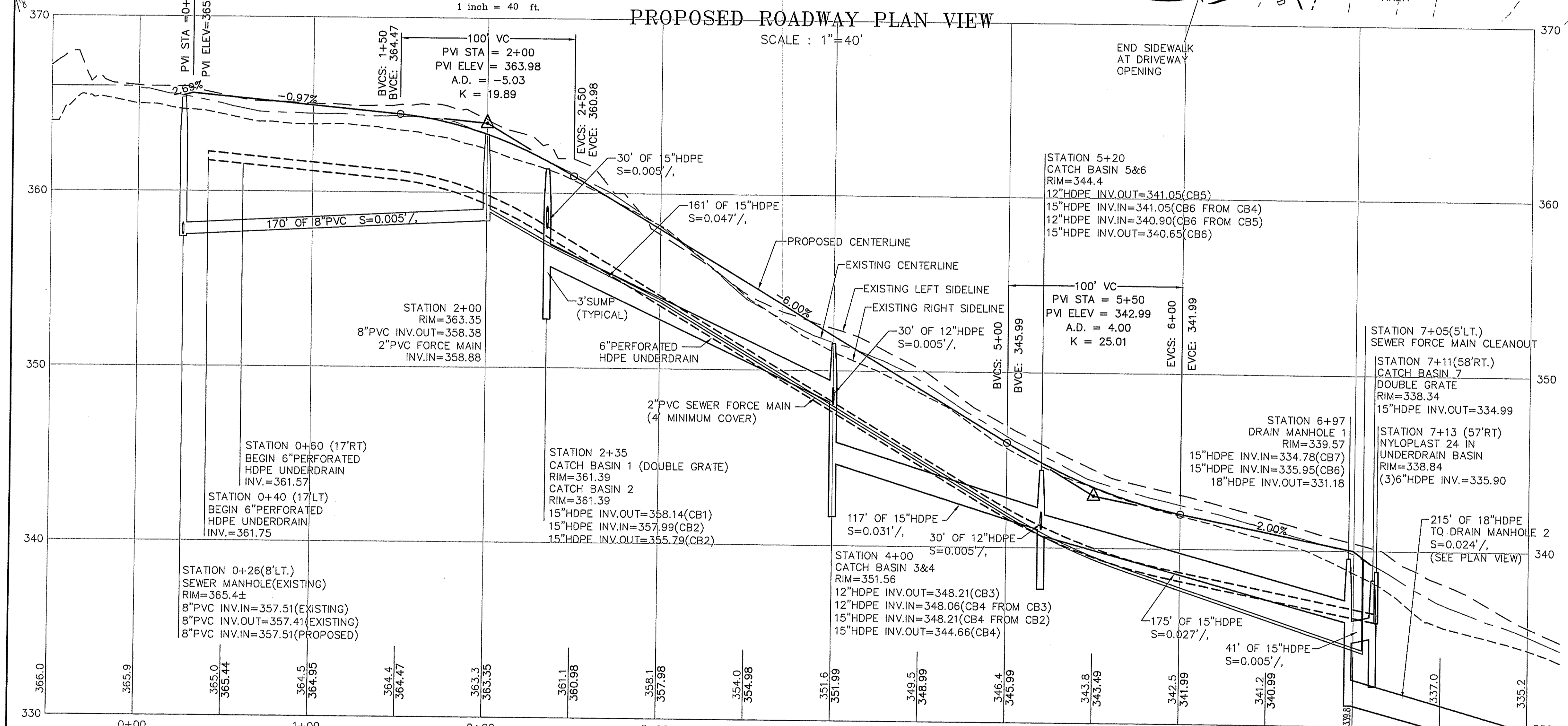
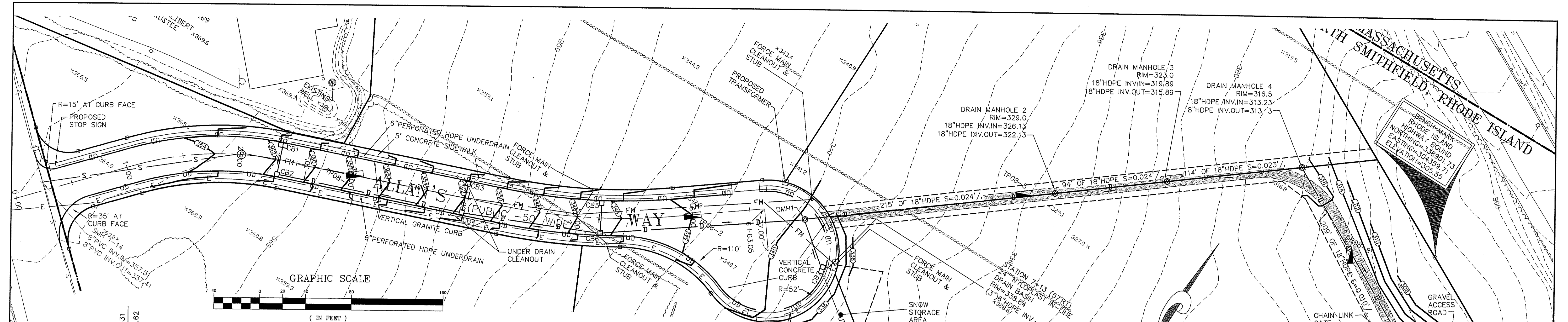
COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.
400 SMITH STREET
PROVIDENCE, RHODE ISLAND 02908
401-273-6600

REVISIONS

No.	DATE	DRWN	CHKD
1	1/25/11	JP	JAR
2	2/02/11	JP	JAR
3	4/5/11	JAR	SMC

SITE DEVELOPMENT PLAN
for
**A.P.1 LOT 459
QUAKER HIGHWAY**
in
NORTH SMITHFIELD, RHODE ISLAND

SCALE: 1"=50' SHEET NO: 7 of 14
DRAWN BY: JP DESIGN BY: JP CHECKED BY: SMC
DATE: 12/28/10 PROJECT NO.: 10025



PROPOSED ROADWAY PROFILE VIEW
SCALE: 1"=40' HORIZONTAL / 1"=4' VERTICAL

LEGEND

PERIMETER LINE	SPOT GRADE	x123.0
ABUTTER LINE	WETLAND EDGE	▲
PROPOSED LOT LINE	50FT WETLAND	△
DIRT(GRAVEL) DRIVE(ROAD)	UTILITY POLE	—+—
EDGE OF ROAD PAVEMENT	SIGN	+
ROADWAY CENTERLINE	LIGHT POLE	o
ROADWAY STATION	2+00 OVERHEAD WIRE	—OHW—
TREELINE	CATCH BASIN	□
SCRUBLINE	DRAIN MANHOLE	○
SHRUBLINE	DRAINLINE	—D—
TREE	SEWER FORCE MAIN	—FM—
SHRUB	UNDERGROUND ELECTRIC	—E—
STONEWALL	PHONE, FIRE ALARM & CABLE TV	—P—
RETAINING WALL	PROPOSED CONTOUR	—CB—
FENCE (CHAINLINK)	REINFORCED CONCRETE BOUND (TO BE SET)	—DB—
BUILDING SETBACK	PROPOSED LIGHT POLE	*
CONTOUR		

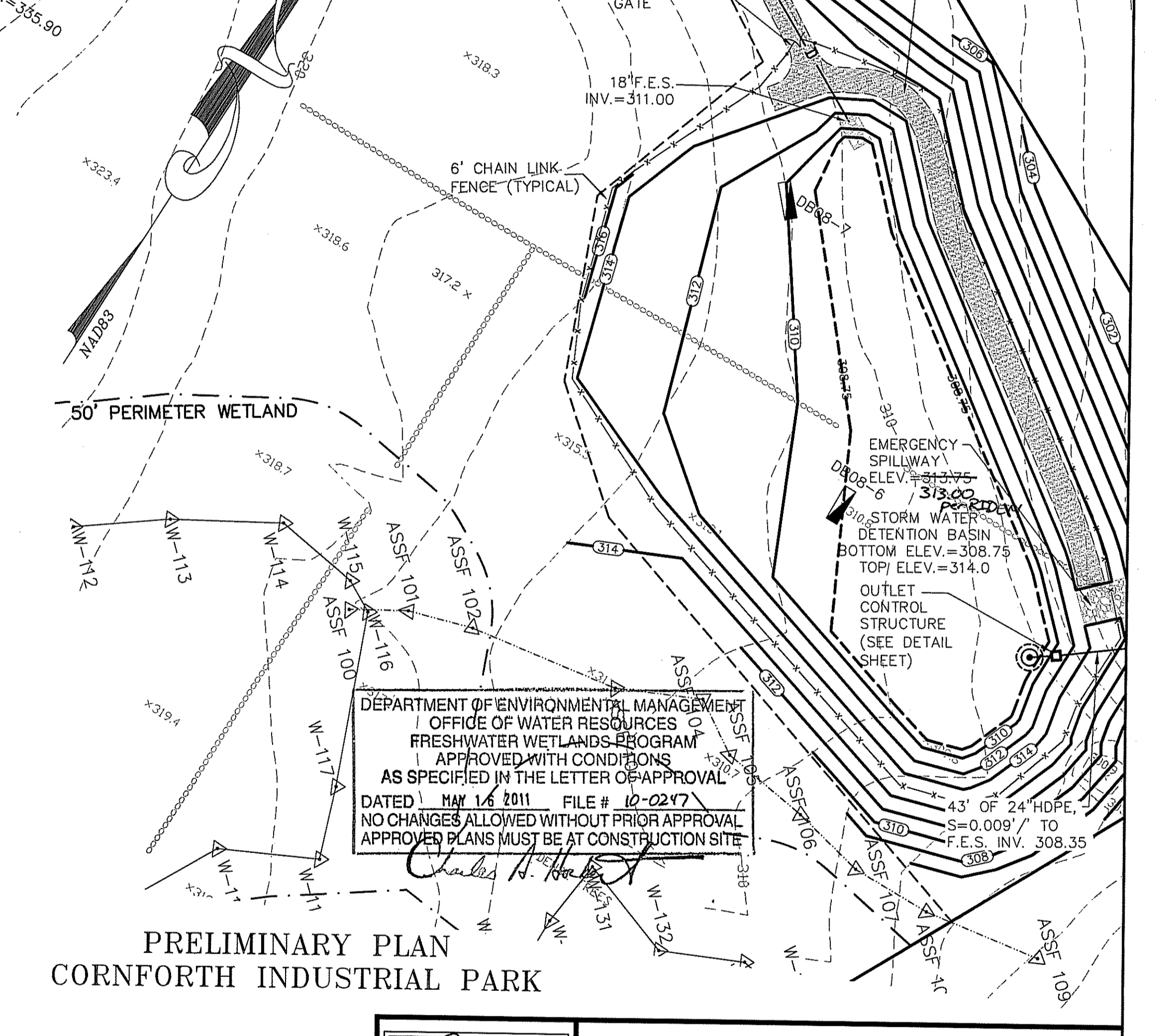
TEST HOLE DATA:

TEST HOLE #	EXISTING GRADE	GROUND WATER	REFUSAL	BOTTOM
TP-08-1	358.0	355.0	351.0	351.0
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DB-08-7	312.0	308.75	NONE	301.2
DB-08-8	311.8	308.8	NONE	300.8

UTILITY NOTES:

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- THE PROPOSED LOTS WILL BE SERVICED BY INDIVIDUAL DRINKING WATER WELLS.
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- ANY DEVIATION FROM THE ABOVE WILL REQUIRE THE INDIVIDUAL LOT OWNERS TO APPLY FOR A NEW PERMIT WITH RIDEM FRESHWATER WETLANDS.
- ELECTRIC, & TELEPHONE SERVICES TO BE INSTALLED UNDERGROUND IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE RESPECTIVE UTILITY COMPANIES.

OWNER/APPLICANT:
MR. JAMES CHACHARONE
THE ASTER GROUP
ONE WEST BOYLSTON STREET
SUITE LLO5
WORCESTER, MA 01605



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 16 2011 FILE # 10-0247
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PRELIMINARY PLAN
CORNFORTH INDUSTRIAL PARK

STORMWATER NOTES:

- THE FUTURE DEVELOPMENT OF EACH INDUSTRIAL SUBDIVISION LOT WILL REQUIRE A CLOSED AND/OR OPEN DRAINAGE SYSTEM WHICH WILL DELIVER IMPERVIOUS RUNOFF GENERATED FROM THAT LOT TO THE PROPOSED EXTENDED DETENTION BASIN. EACH OF THESE DRAINAGE SYSTEMS SHALL BE DESIGNED SO AS TO DELIVER THE ENTIRETY OF THE RUNOFF FROM THE 100-YEAR STORM EVENT TO THE PROPOSED DETENTION BASIN WITHOUT ANY BYPASS OR OVERFLOW TOWARDS THE RECEIVING WETLAND. THESE DRAINAGE SYSTEMS SHALL DISCHARGE RUNOFF INTO THE PROPOSED EXTENDED DETENTION BASIN AT A POINT WHICH IS AS FAR AS PRACTICAL FROM THE BASIN OUTLET.
- THE PROVIDED STORMWATER MANAGEMENT DESIGN HAS STIPULATED A LIMITATION ON THE MAXIMUM PERCENT IMPERVIOUS COVERAGE WITHIN THE DEVELOPABLE AREA OF EACH LOT TO 75%. ANY PROPOSAL TO EXCEED THIS AMOUNT WOULD NEED A REVISED ANALYSIS AND POTENTIALLY SOME ADDITIONAL WATER QUANTITY AND/OR QUALITY MITIGATION FEATURES.

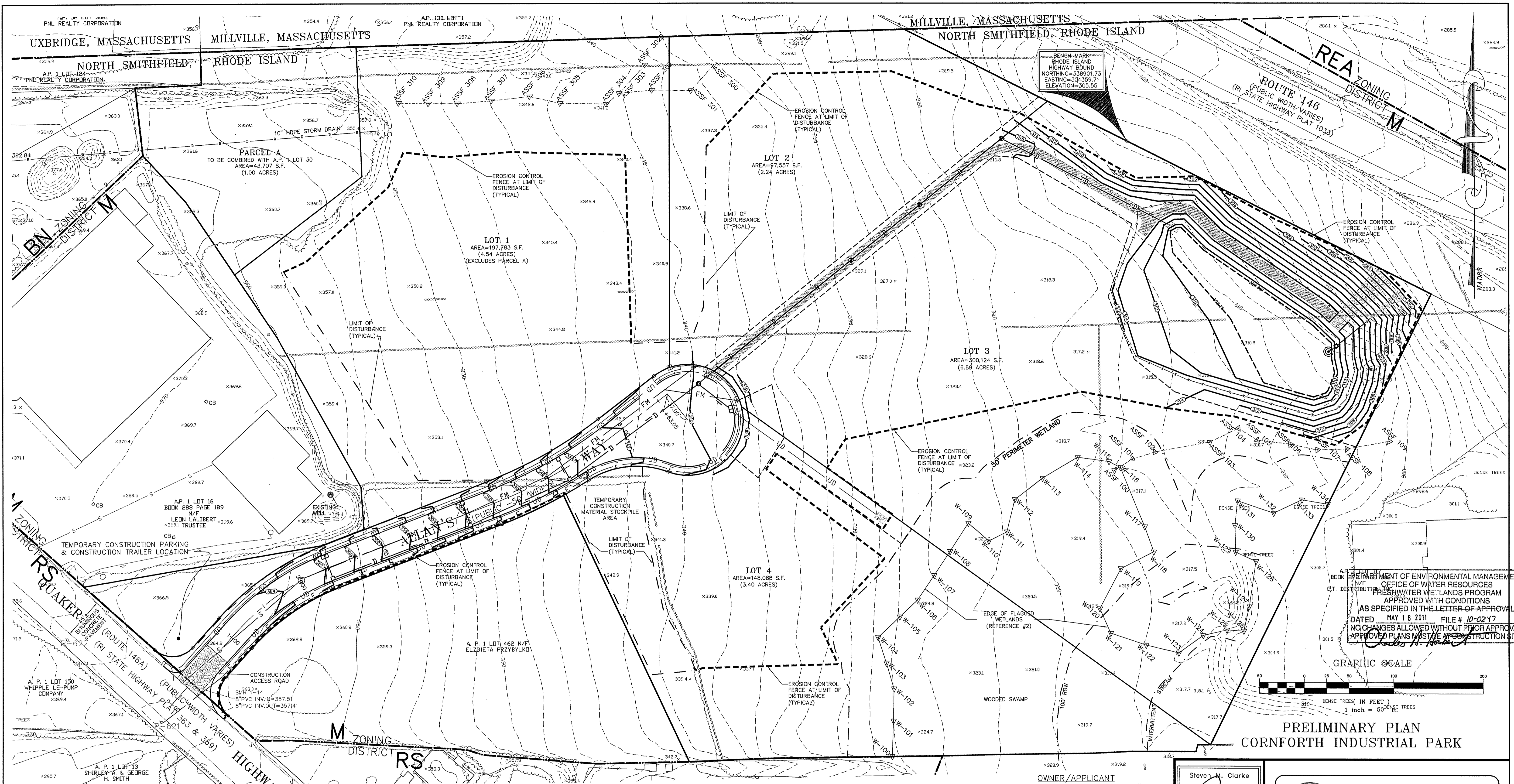
REVISIONS

No.	DATE	DRWN	CHKD
1	1/25/11	JP	JAR
2	2/02/11	JP	JAR
3	4/5/11	JAR	SMC

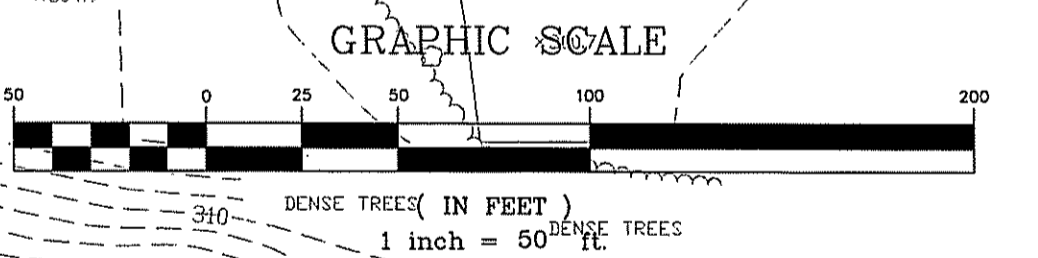
COMMONWEALTH ENGINEERS & CONSULTANTS, INC.
400 SMITH STREET
PROVIDENCE, RHODE ISLAND 02908
401-273-6600

ROADWAY PLAN & PROFILE
for
A.P.1 LOT 459
QUAKER HIGHWAY
in
NORTH SMITHFIELD, RHODE ISLAND

SCALE: AS NOTED SHEET NO: 8 of 14
DRAWN BY: JP DESIGN BY: JP CHECKED BY: SMC
DATE: 12/28/10 PROJECT NO.: 10025



APPLICANT'S STATEMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAY 16 2011 FILE # 10-0247
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
 Charles H. Hurd



**PRELIMINARY PLAN
 CORNFORTH INDUSTRIAL PARK**

OWNER/APPLICANT
 MR. JAMES CHACHARONE
 THE ASTER GROUP
 ONE WEST BOYLSTON STREET
 SUITE LL05
 WORCESTER, MA 01605

Steven M. Clarke
 No. 4477
 REGISTERED
 PROFESSIONAL ENGINEER

COMMONWEALTH
 ENGINEERS & CONSULTANTS, INC.
 400 SMITH STREET
 PROVIDENCE, RHODE ISLAND 02908
 401-273-6600

REVISIONS

No.	DATE	DRWN	CHKD
1	1/25/11	JP	JAR
2	2/02/11	JP	JAR
3	4/5/11	JAR	SMC

EROSION CONTROL PLAN
 for
A.P.1 LOT 459
QUAKER HIGHWAY
 in
 NORTH SMITHFIELD, RHODE ISLAND
 APR 11 2011
 Office of Water Resources

SCALE: 1"=50'
 SHEET NO: 9 of 14
 DRAWN BY: JP DESIGN BY: JP CHECKED BY: SMC
 DATE: 12/28/10 PROJECT NO.: 10025

ASSESSORS REFERENCE:
 A.P. 1 LOT 459

ZONING REFERENCE:
 M MANUFACTURING DISTRICT
 MINIMUM DISTANCE OF STRUCTURE FROM RESIDENTIAL ZONE-100 FEET
 MINIMUM YARD DEPTH: FRONT - 40'
 SIDE - 40'
 REAR - 40'

MAXIMUM BUILDING HEIGHT - 35'
 MAXIMUM FLOOR AREA RATIO - 1.00

NOTE:

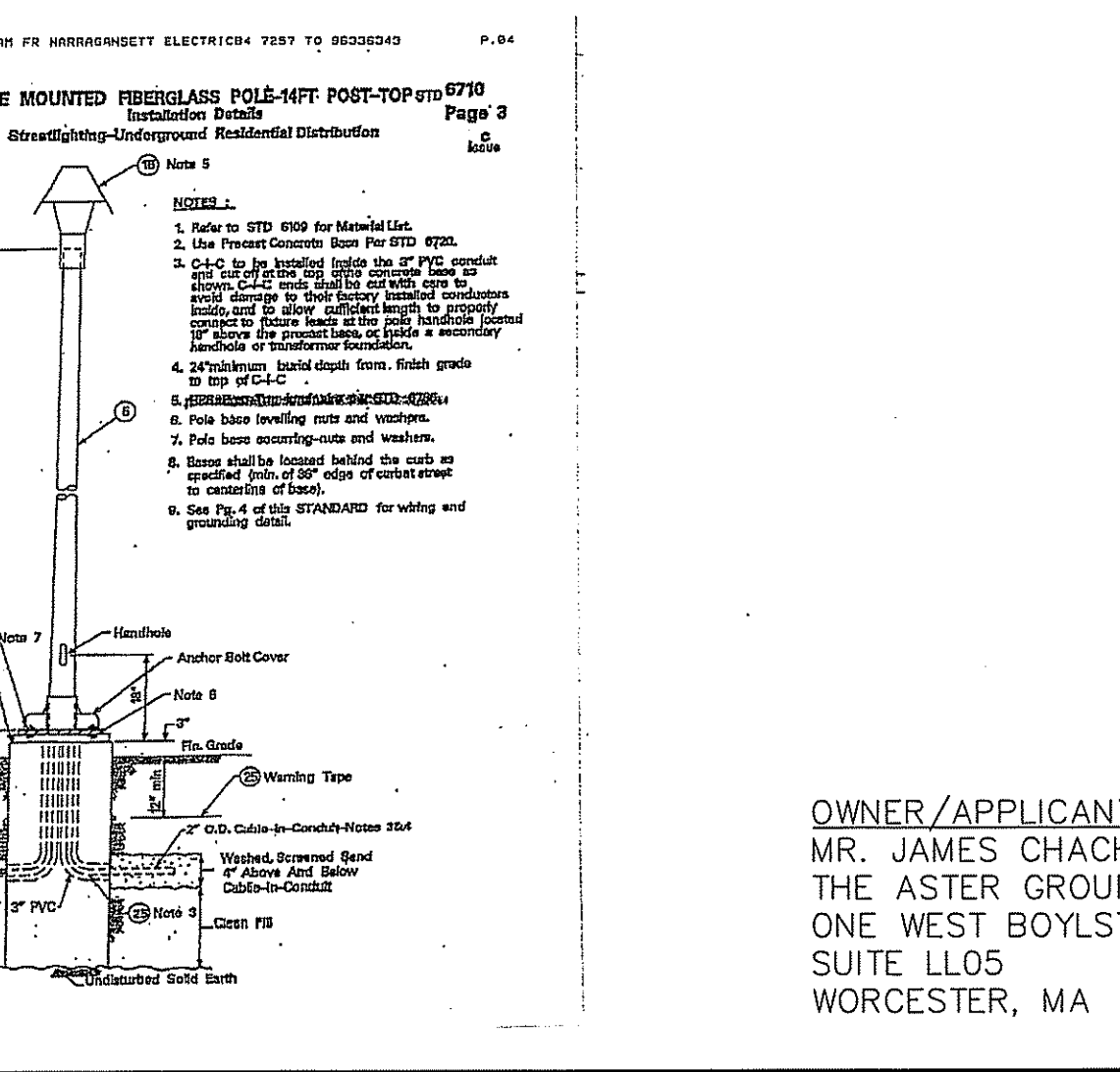
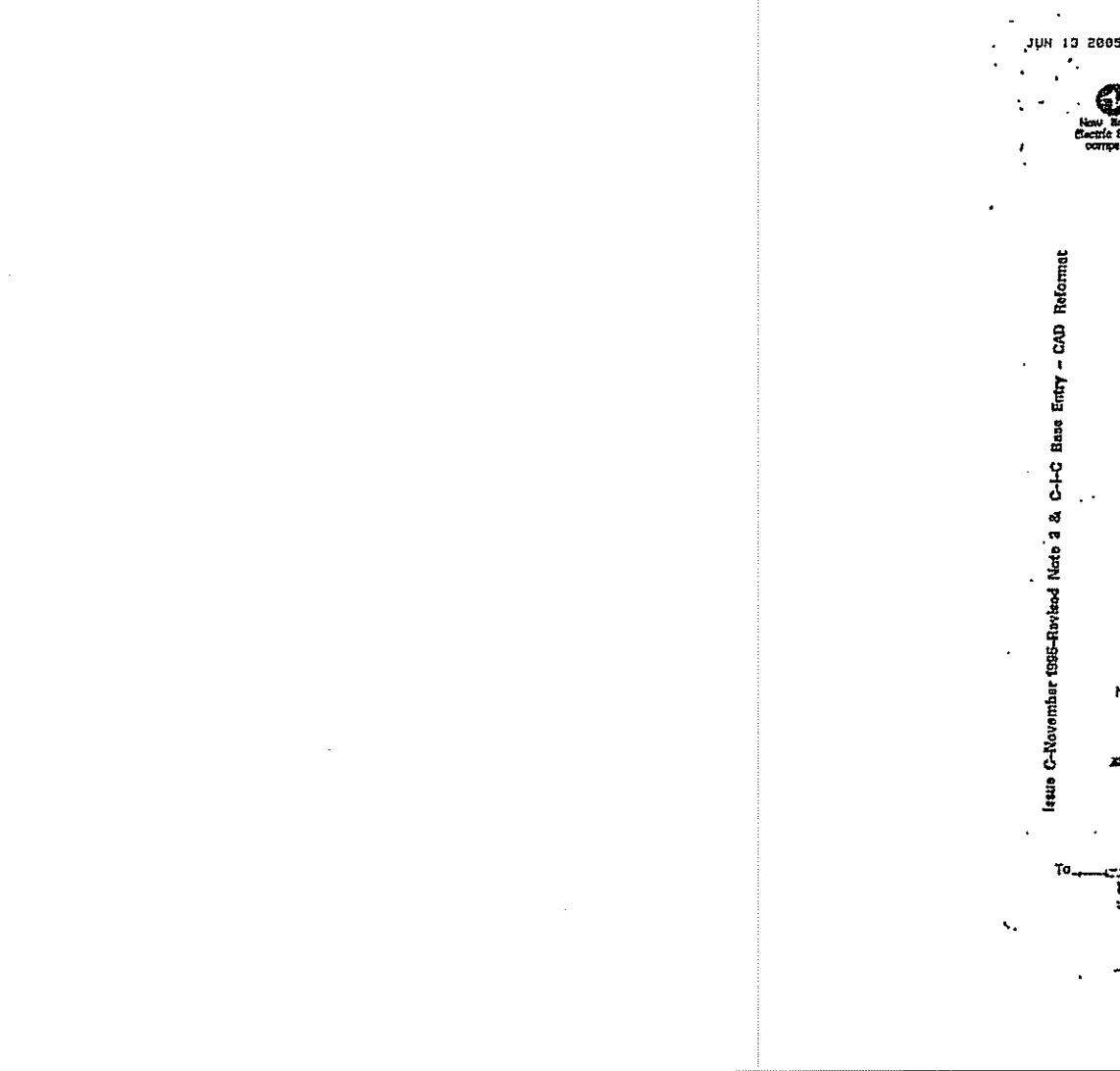
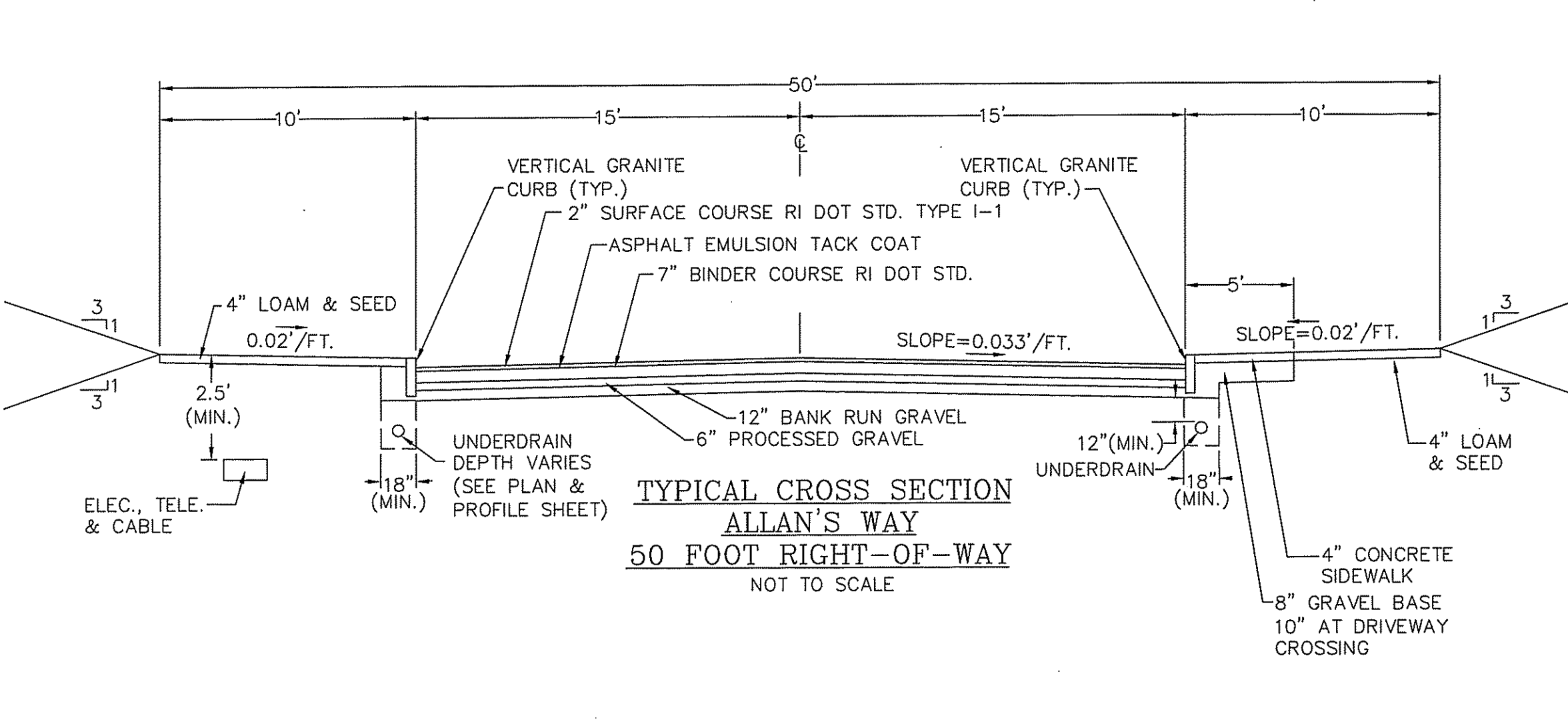
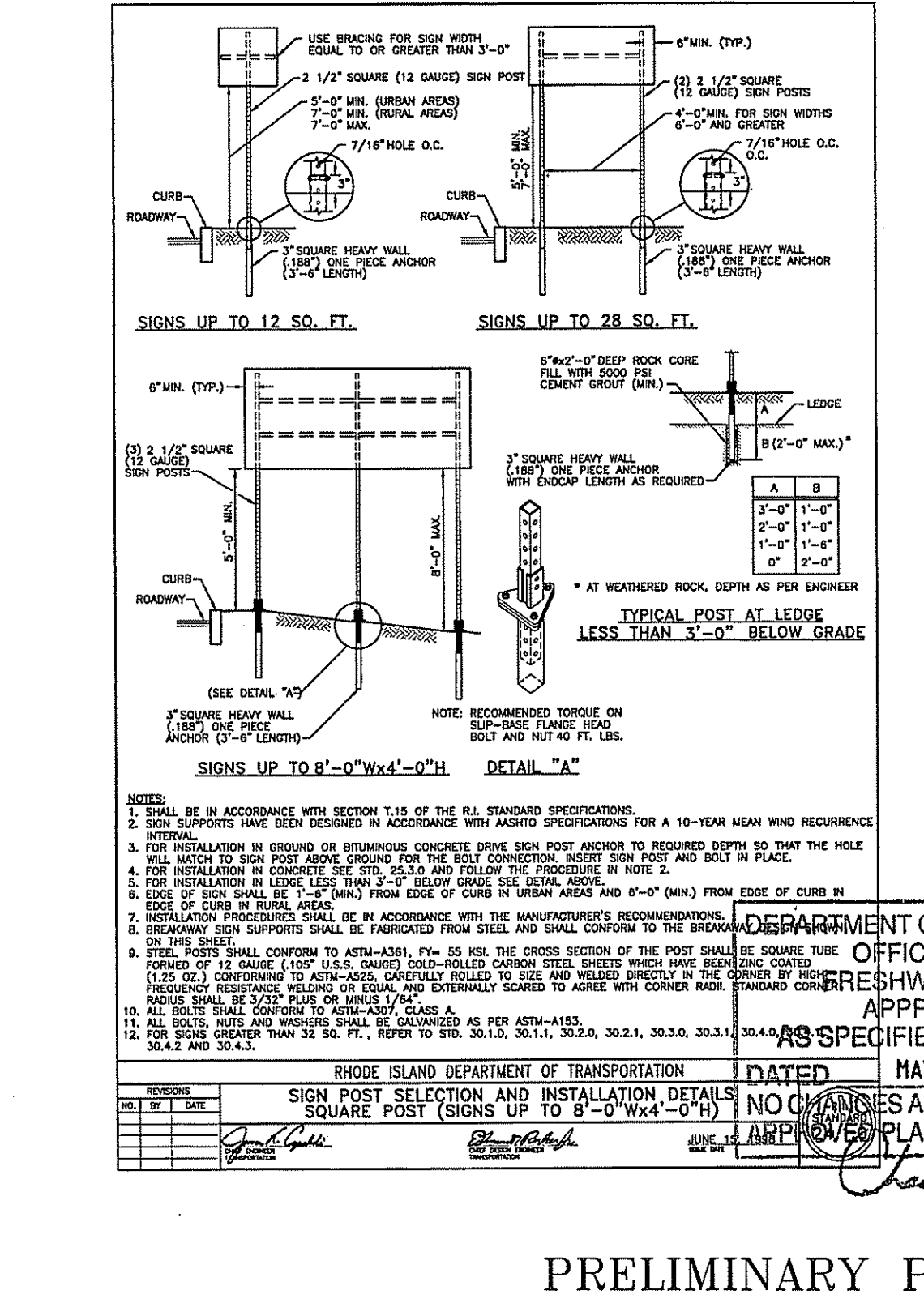
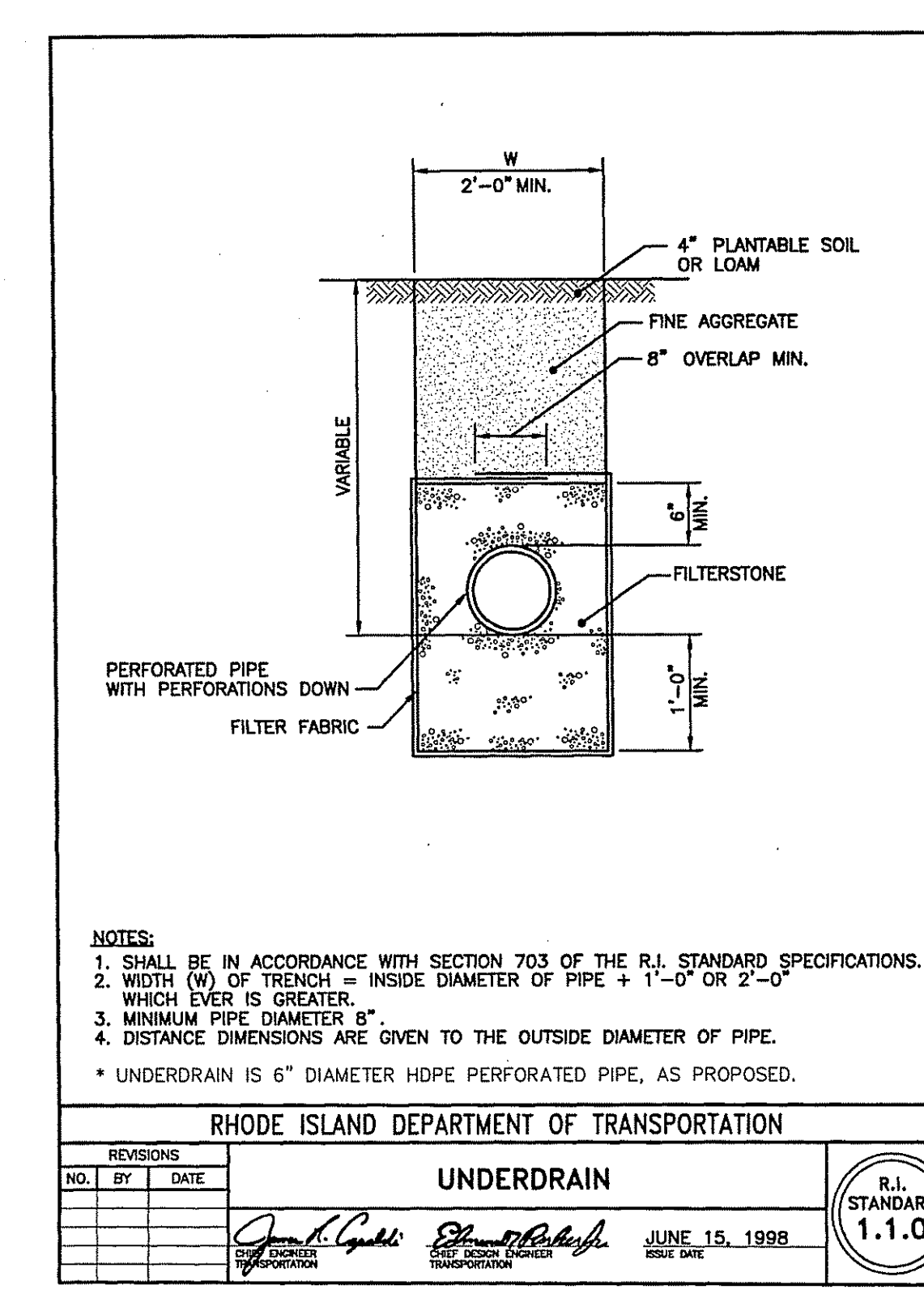
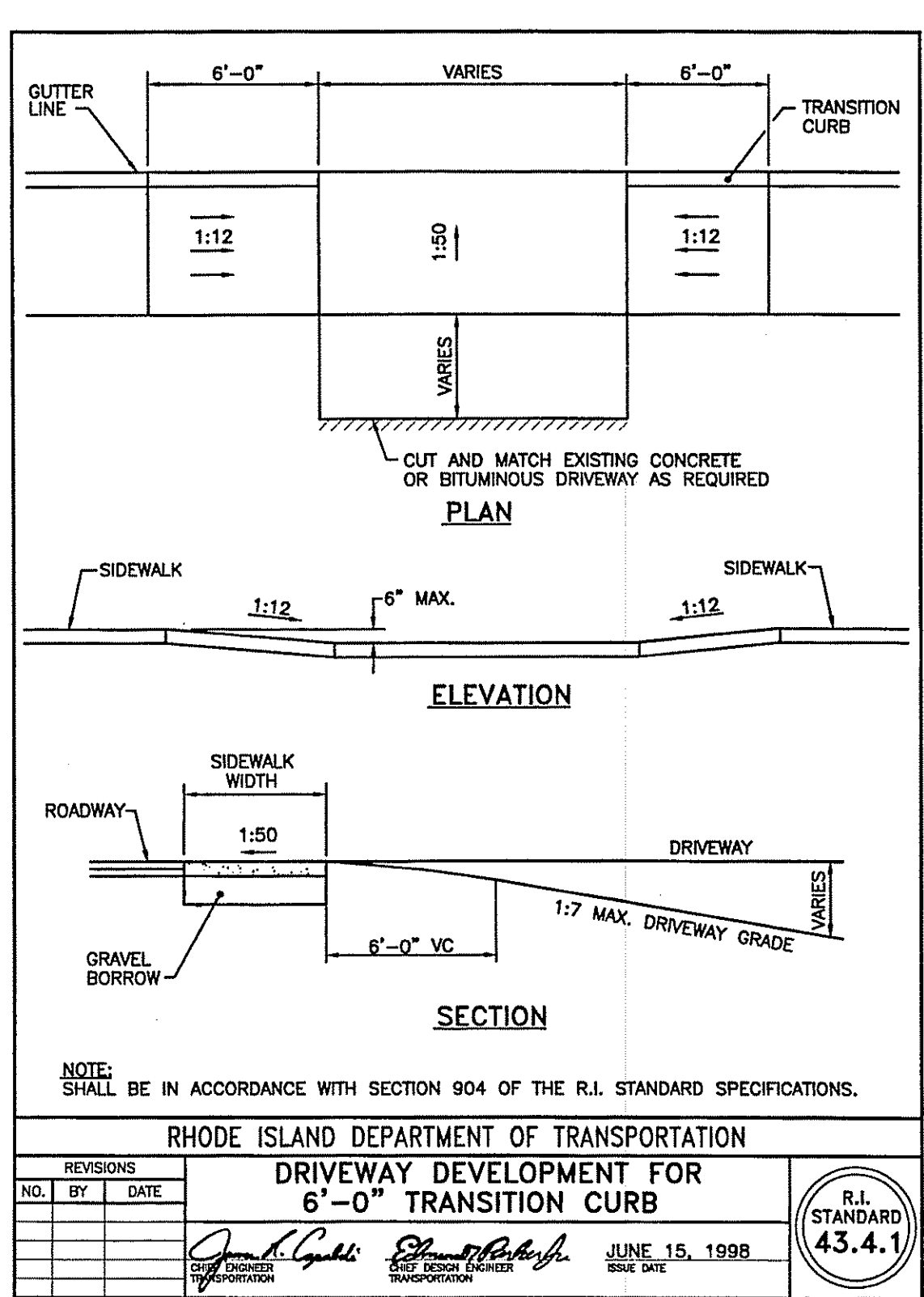
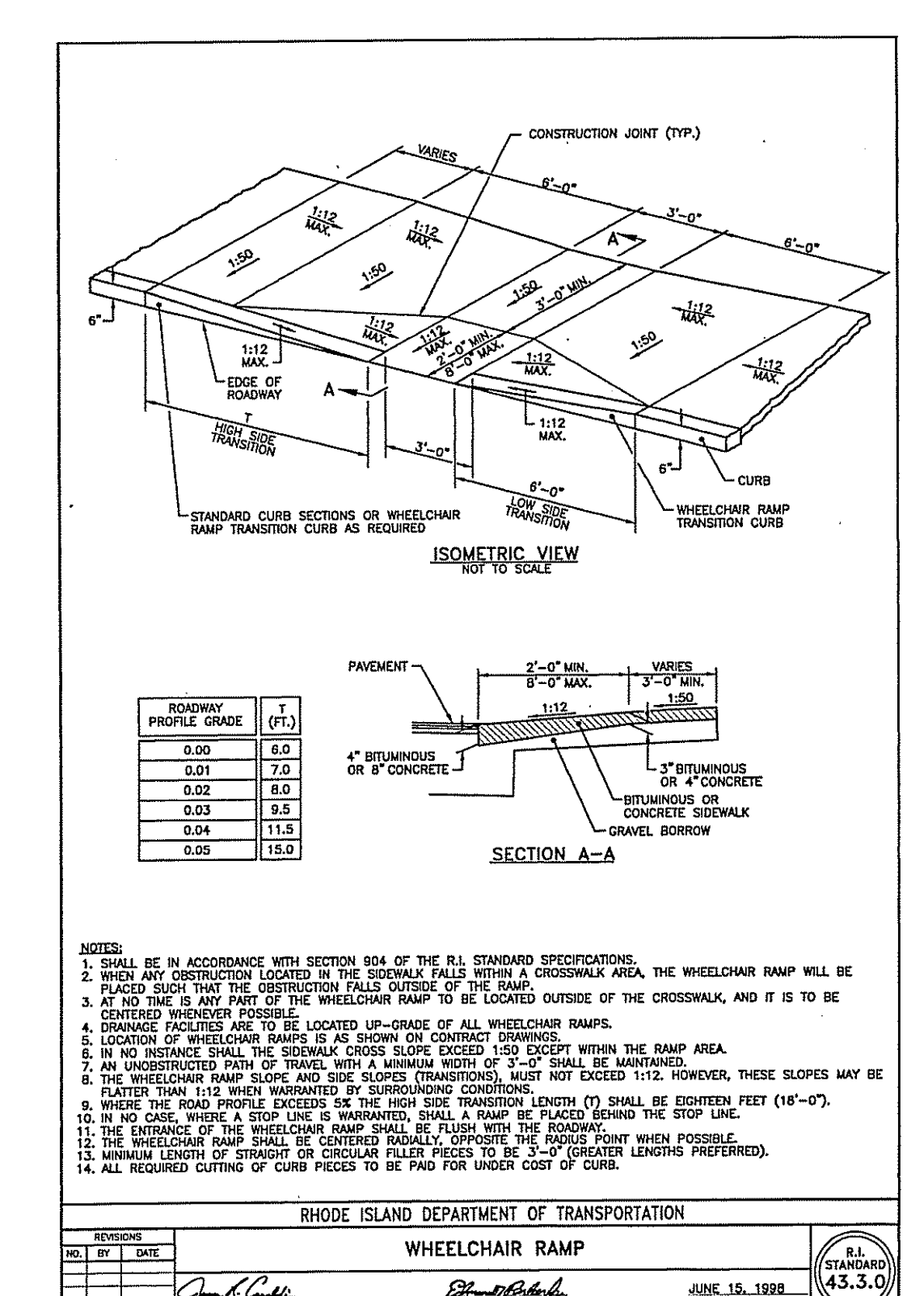
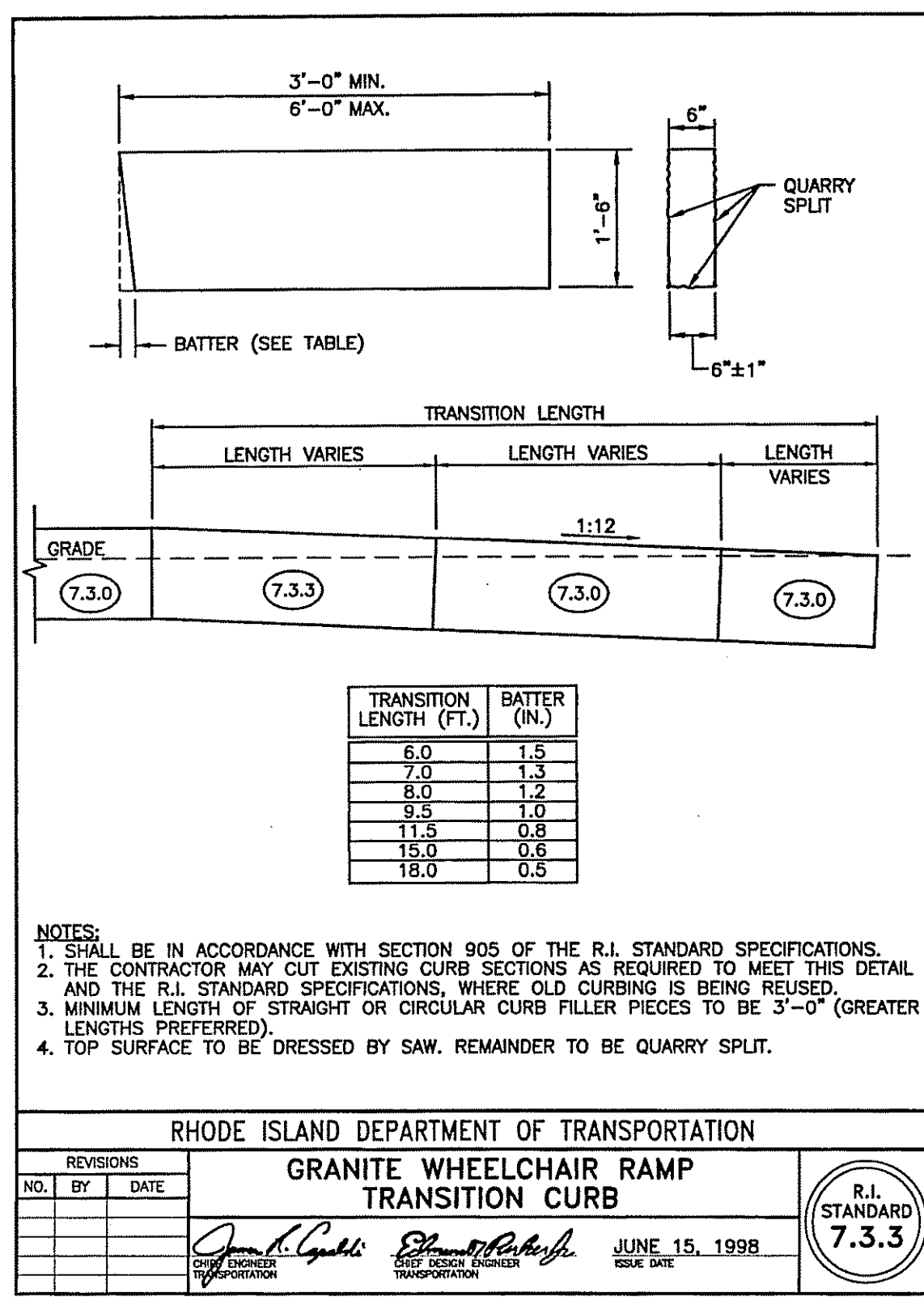
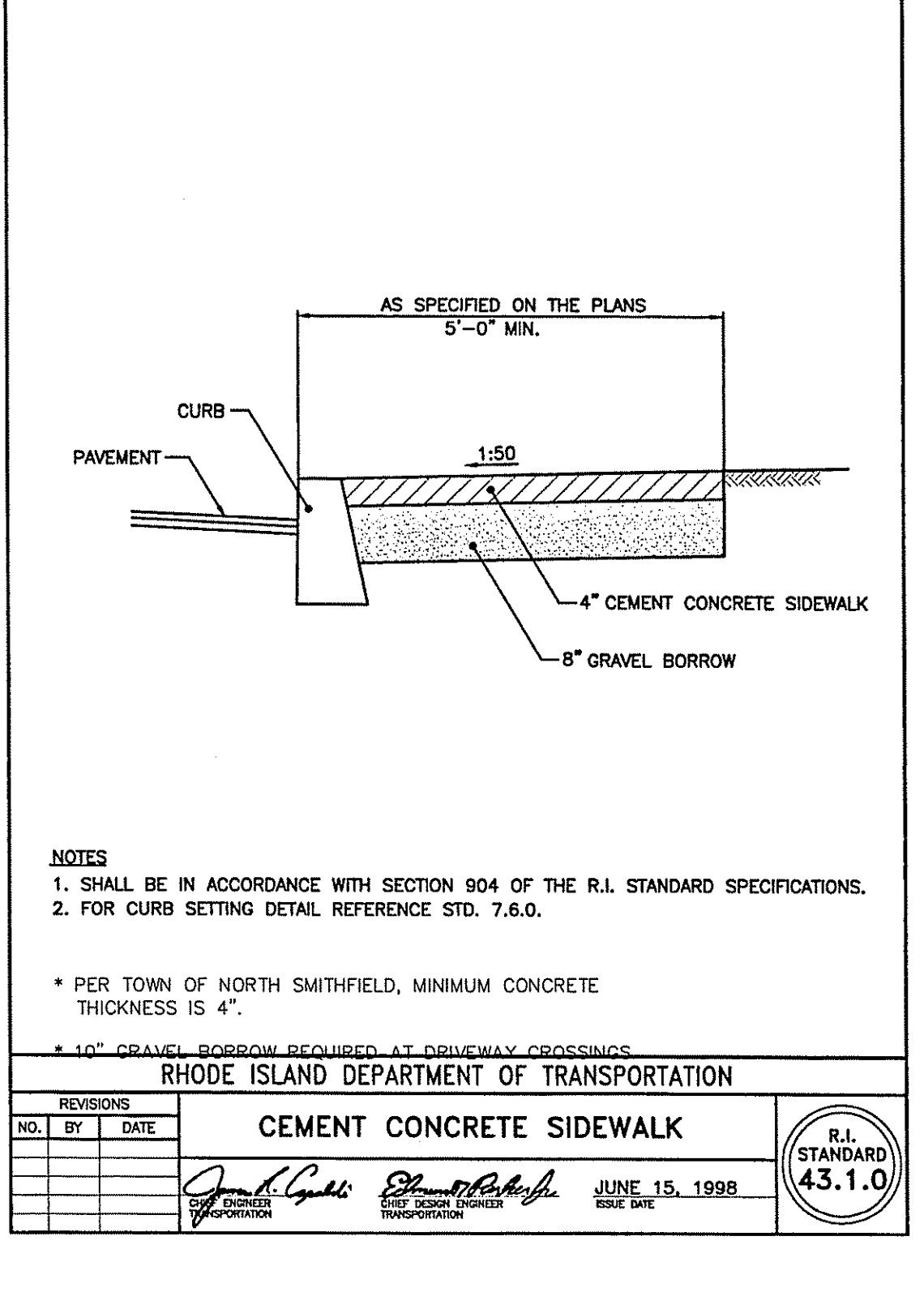
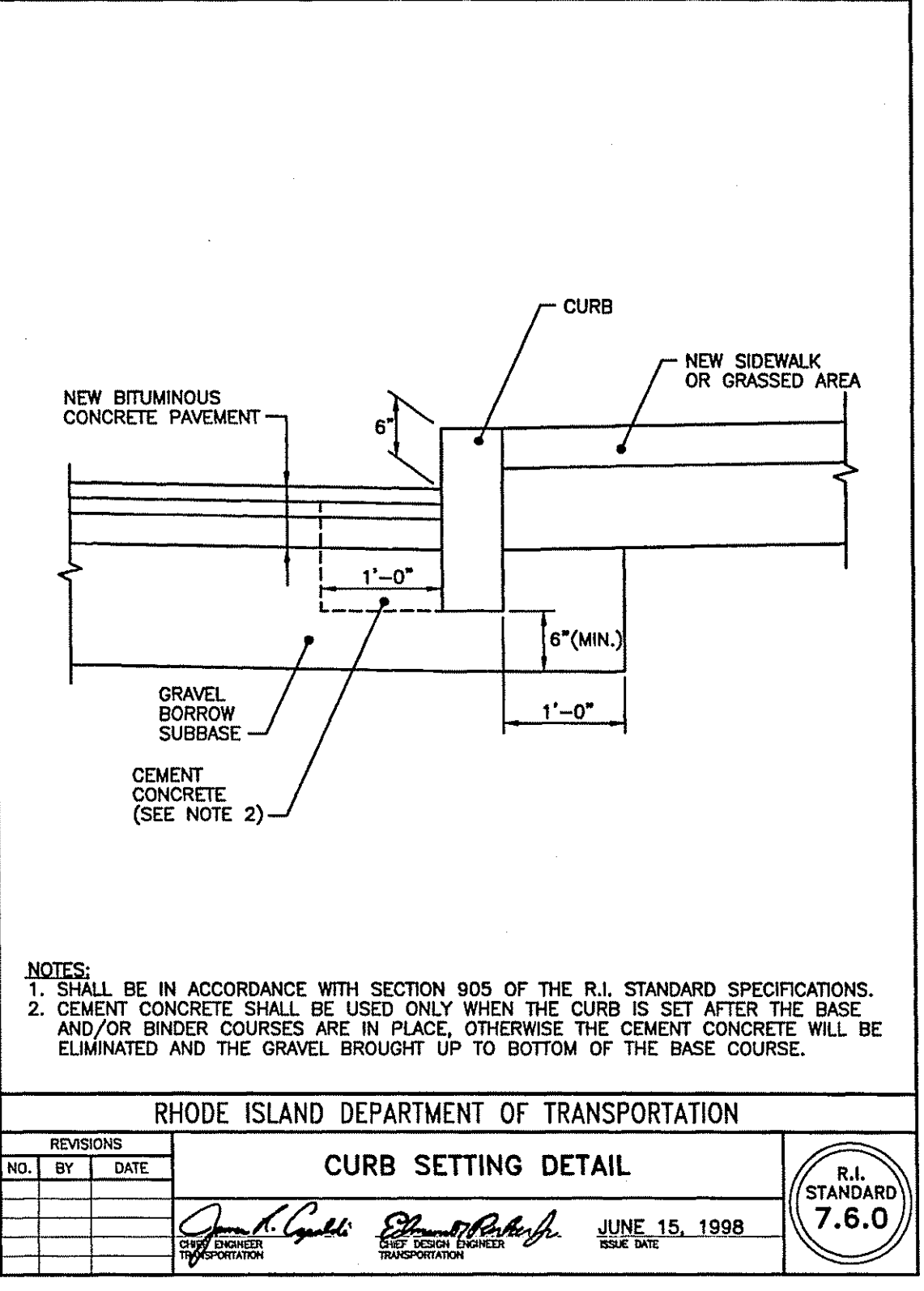
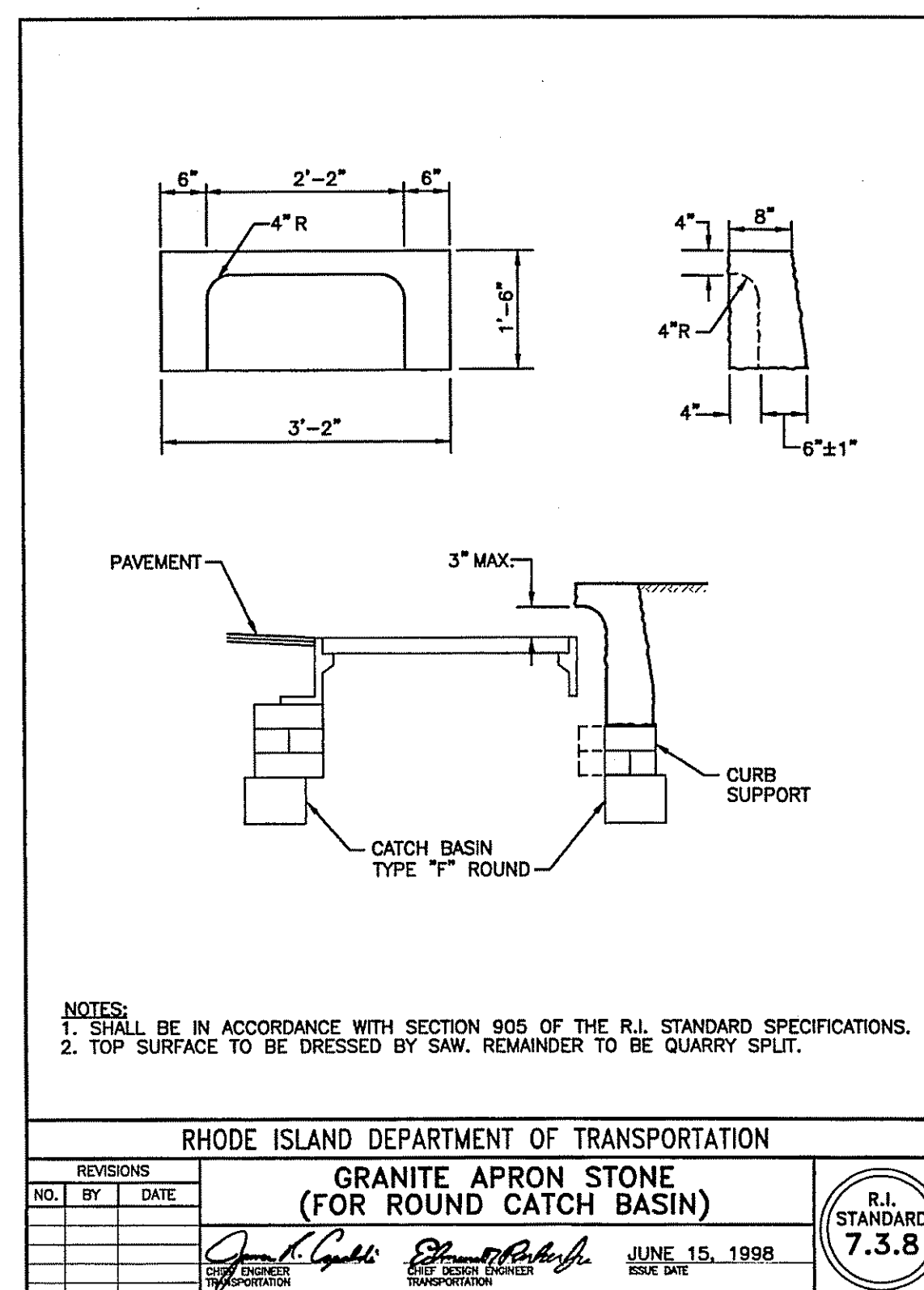
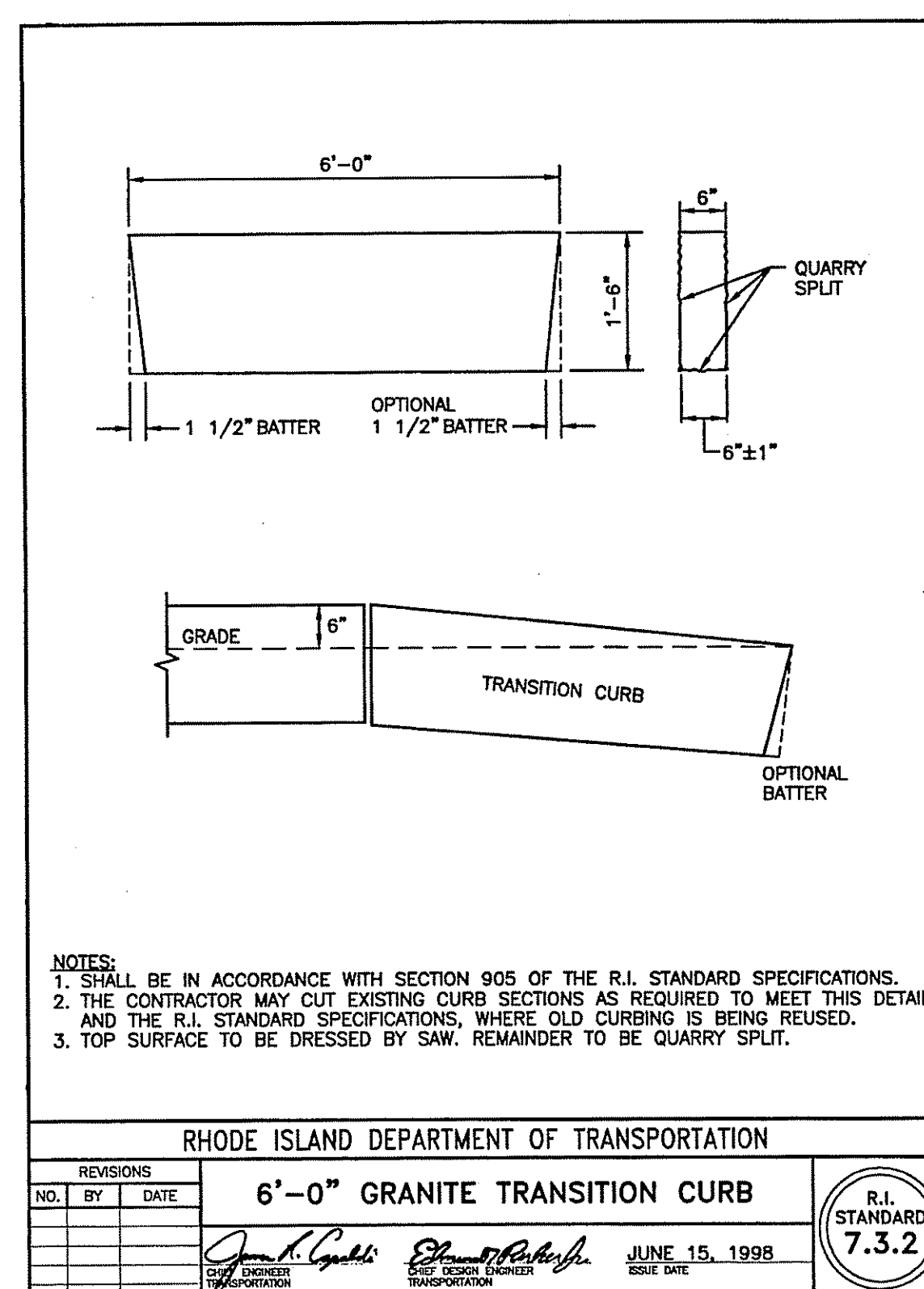
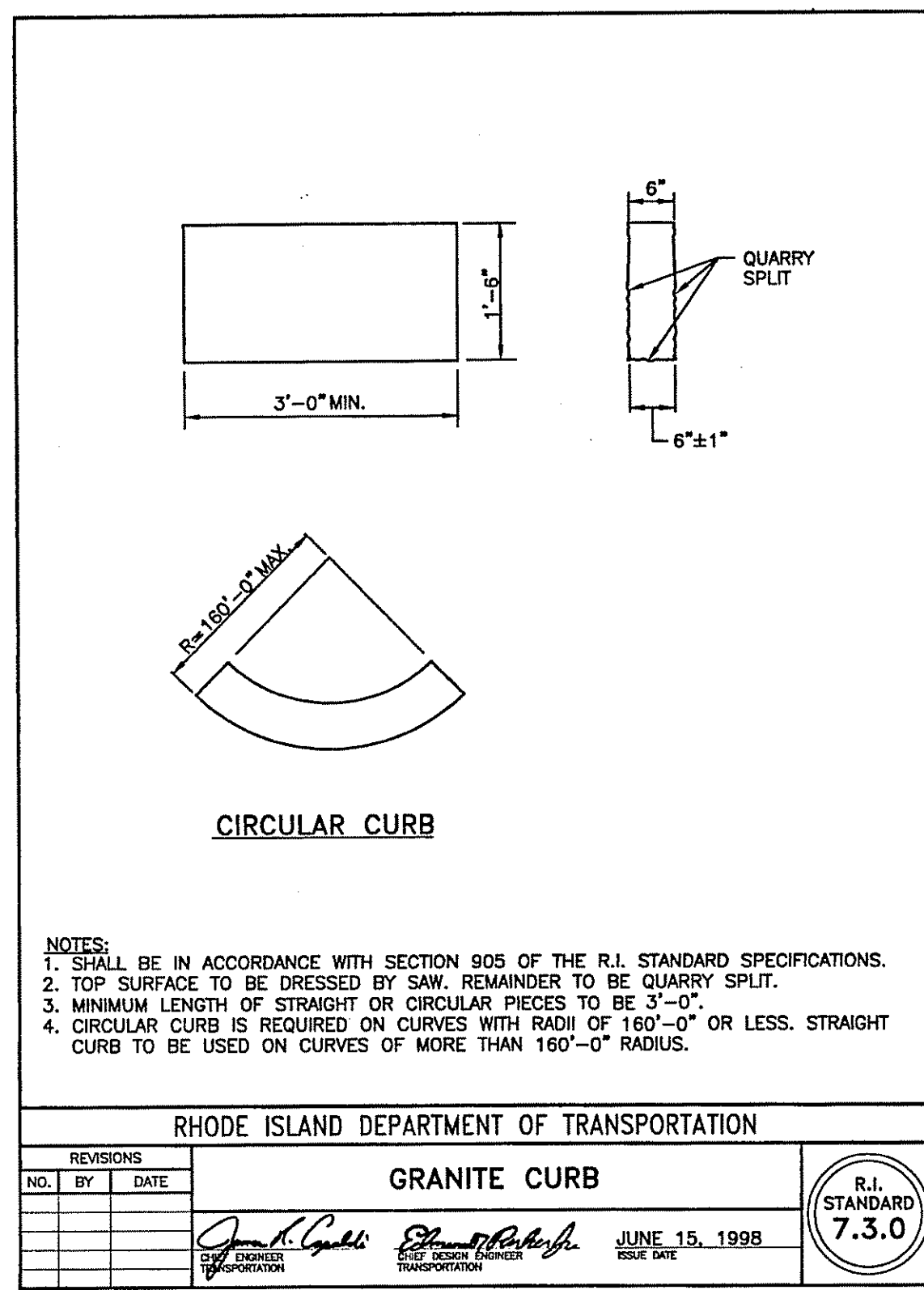
- TOPOGRAPHIC MAPPING WITHIN THE SITE AND A MINIMUM OF 100 FEET BEYOND HAS BEEN PREPARED FROM STEREOSCOPIC AERIAL PHOTOGRAMMETRY AND IS BASED ON U.S.G.S. BENCHMARKS (NGVD OF 1929).
- HORIZONTAL DATUM IS BASED ON NAD 83.

UTILITY NOTES:

- EACH LOT WILL BE SERVICED BY INDIVIDUAL SEWAGE EJECTOR PUMPS WITH DISCHARGE TO THE PROPOSED LOW PRESSURE FORCE MAIN IN ALLAN'S WAY (EVENTUAL CONNECTION IS TO THE GRAVITY SEWER IN QUAKER HIGHWAY).
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- ELECTRIC, & TELEPHONE SERVICES TO BE INSTALLED UNDERGROUND IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE RESPECTIVE UTILITY COMPANIES.

- PLAN REFERENCE:**
- PRELIMINARY MAJOR SUBDIVISION FOR CORNFORTH INDUSTRIAL PARK PLAT 1, LOT 459 NORTH SMITHFIELD, RHODE ISLAND DATE: AUGUST 5, 2005 - SCALE: 1/4"=60 FEET BY: MARC N. NYBERG ASSOCIATES, INC. LAND SURVEYORS AND PLANNERS
 - PREAPPLICATION MAJOR SUBDIVISION FOR CORNFORTH INDUSTRIAL PARK PLAT 1, LOT 459 NORTH SMITHFIELD, RHODE ISLAND DATE: JULY 27, 2006 - SCALE: 1/4"=60 FEET BY: MARC N. NYBERG ASSOCIATES, INC. LAND SURVEYORS AND PLANNERS
 - PLAN OF LAND FOR A.P. 1 LOTS 459 & 462 QUAKER HIGHWAY IN NORTH SMITHFIELD, RHODE ISLAND SCALE: 1"=50' DATE: 1-21-08 BY: COMMONWEALTH LAND SURVEYORS, INC.

J:\10025\10025.dwg, Cornforth Industrial Park, Drawings\Site\Current Drawings\10025-Cornforth-Preliminary & Final- Revised 3-11-11.dwg, 4/23/2011 11:02:38 AM, kcmw.pcd



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL

DATED MAY 16 2011 FILE # 10-0247

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVAL PLANS MUST BE AT CONSTRUCTION SITE

PRELIMINARY PLAN
 CORNFORTH INDUSTRIAL PARK

Steven M. Clarke
 REGISTERED PROFESSIONAL ENGINEER

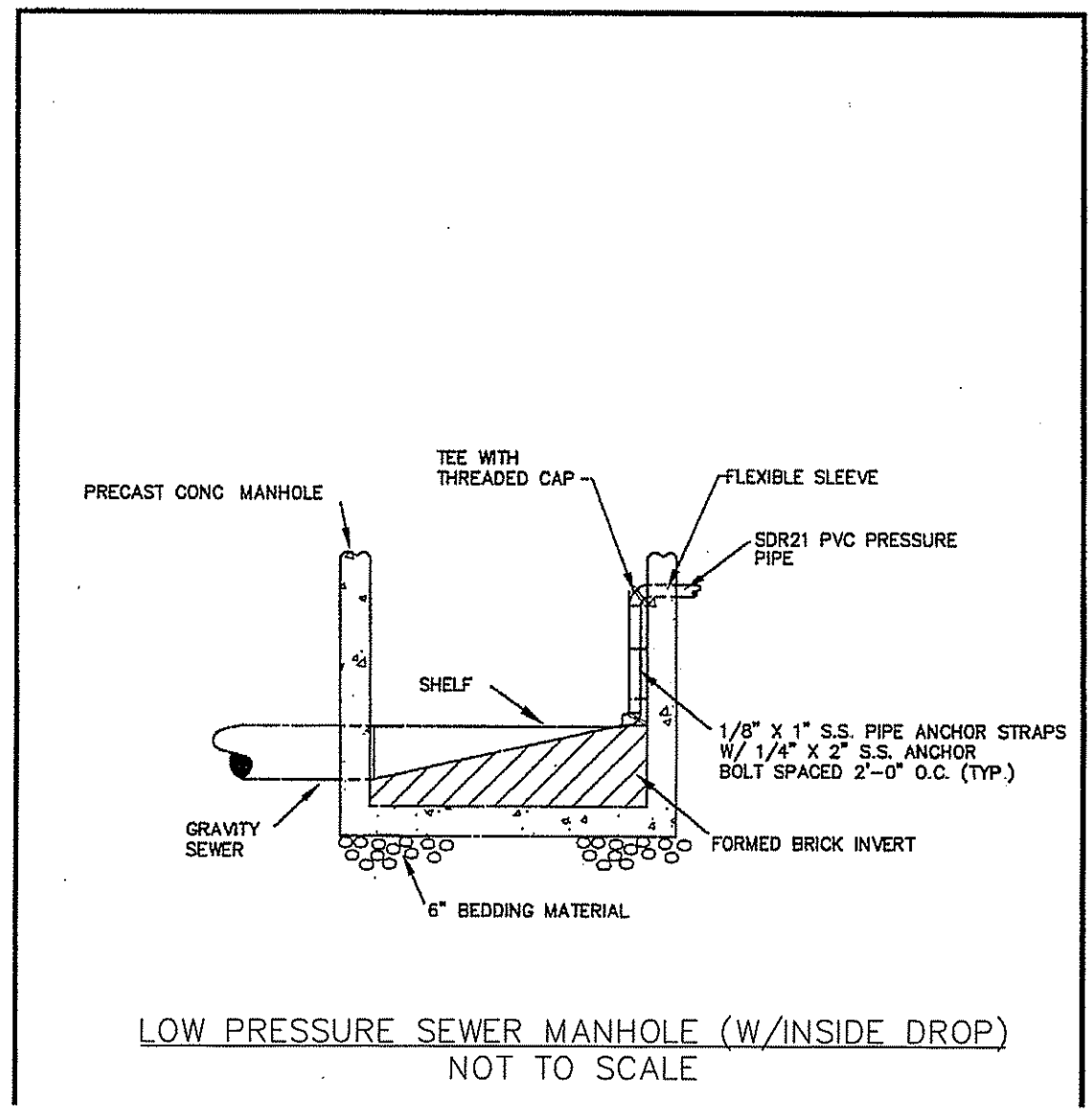
COMMONWEALTH ENGINEERS & CONSULTANTS, INC.
 400 SMITH STREET
 PROVIDENCE, RHODE ISLAND 02908
 401-273-6600

CONSTRUCTION DETAILS
 for
 A.P.1 LOT 459
 QUAKER HIGHWAY
 in
 NORTH SMITHFIELD, RHODE ISLAND

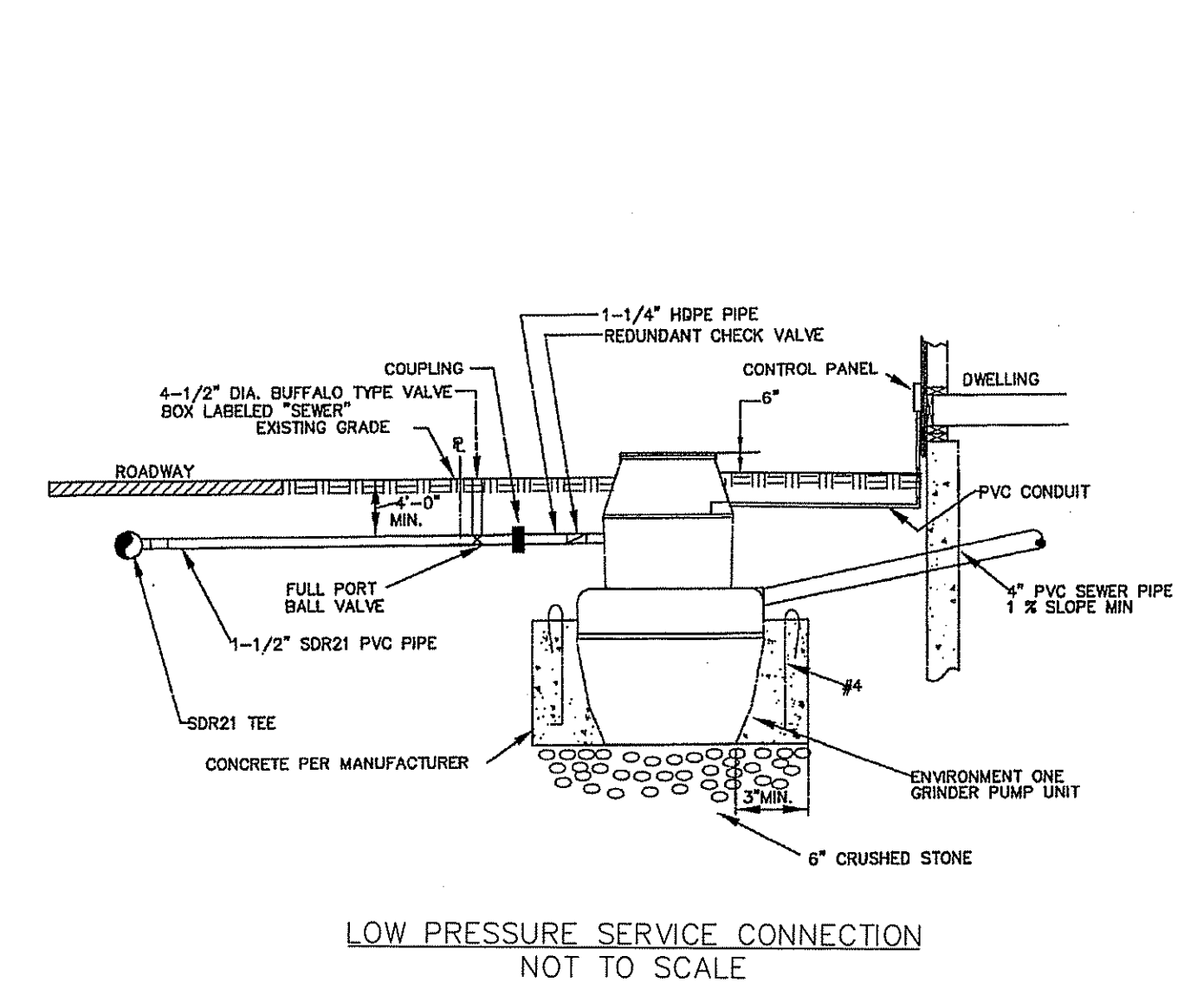
REVISIONS

No.	DATE	DRWN	CHKD

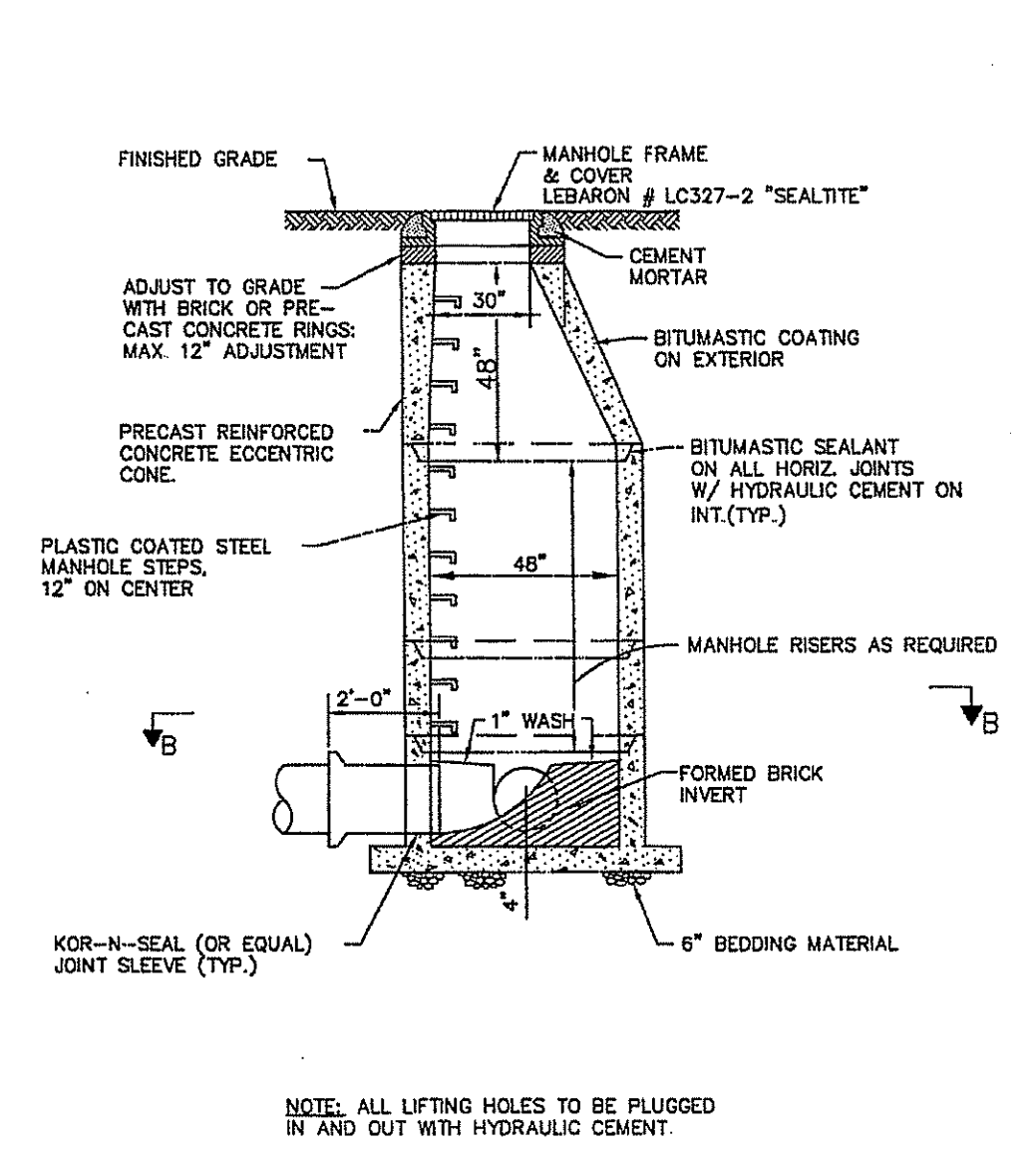
SCALE: AS NOTED SHEET NO: 10 of 14
 DRAWN BY: JP DESIGN BY: JP CHECKED BY: SMC
 DATE: 12/28/10 PROJECT NO.: 10025



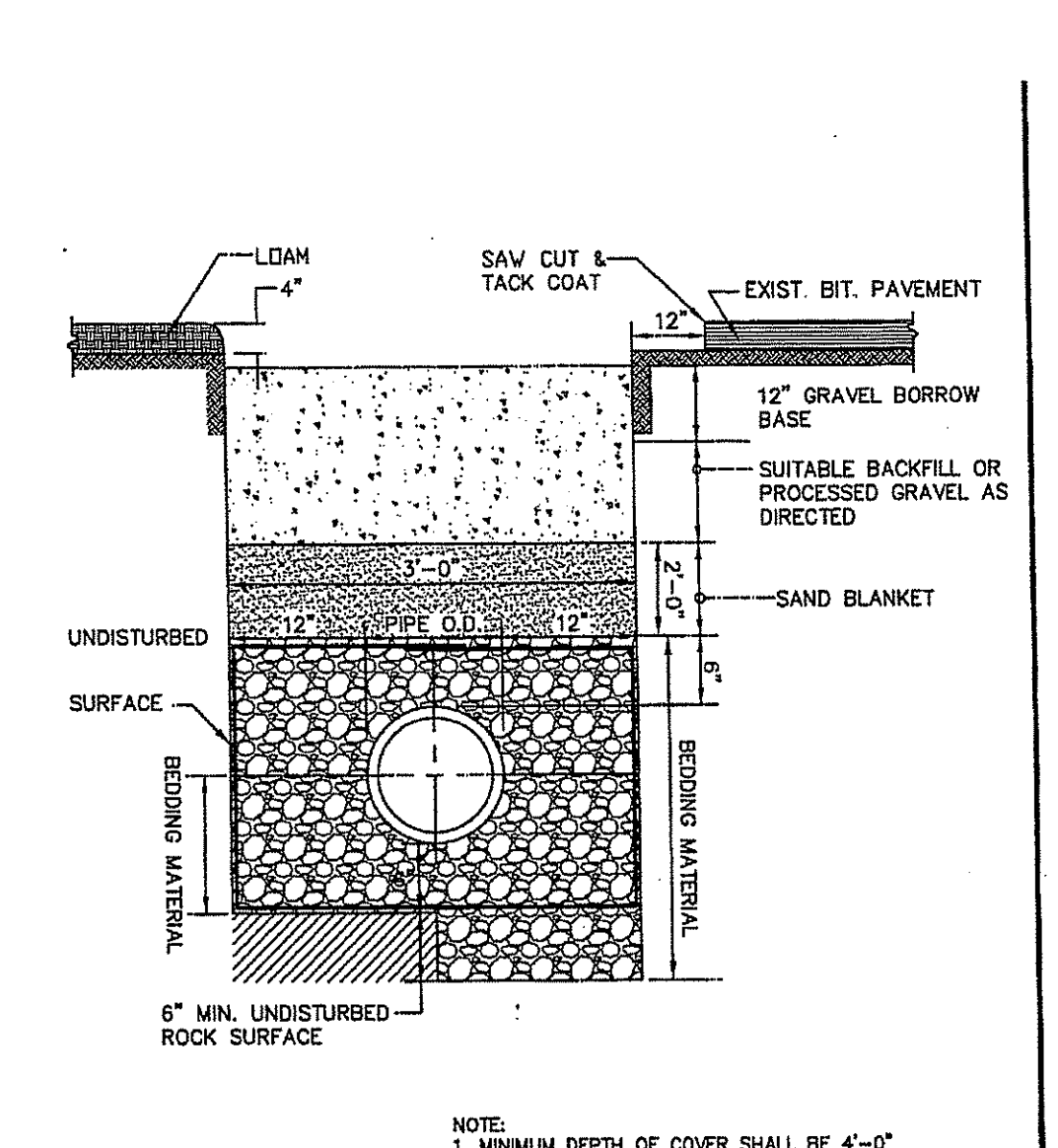
LOW PRESSURE SEWER MANHOLE (W/INSIDE DROP)
NOT TO SCALE



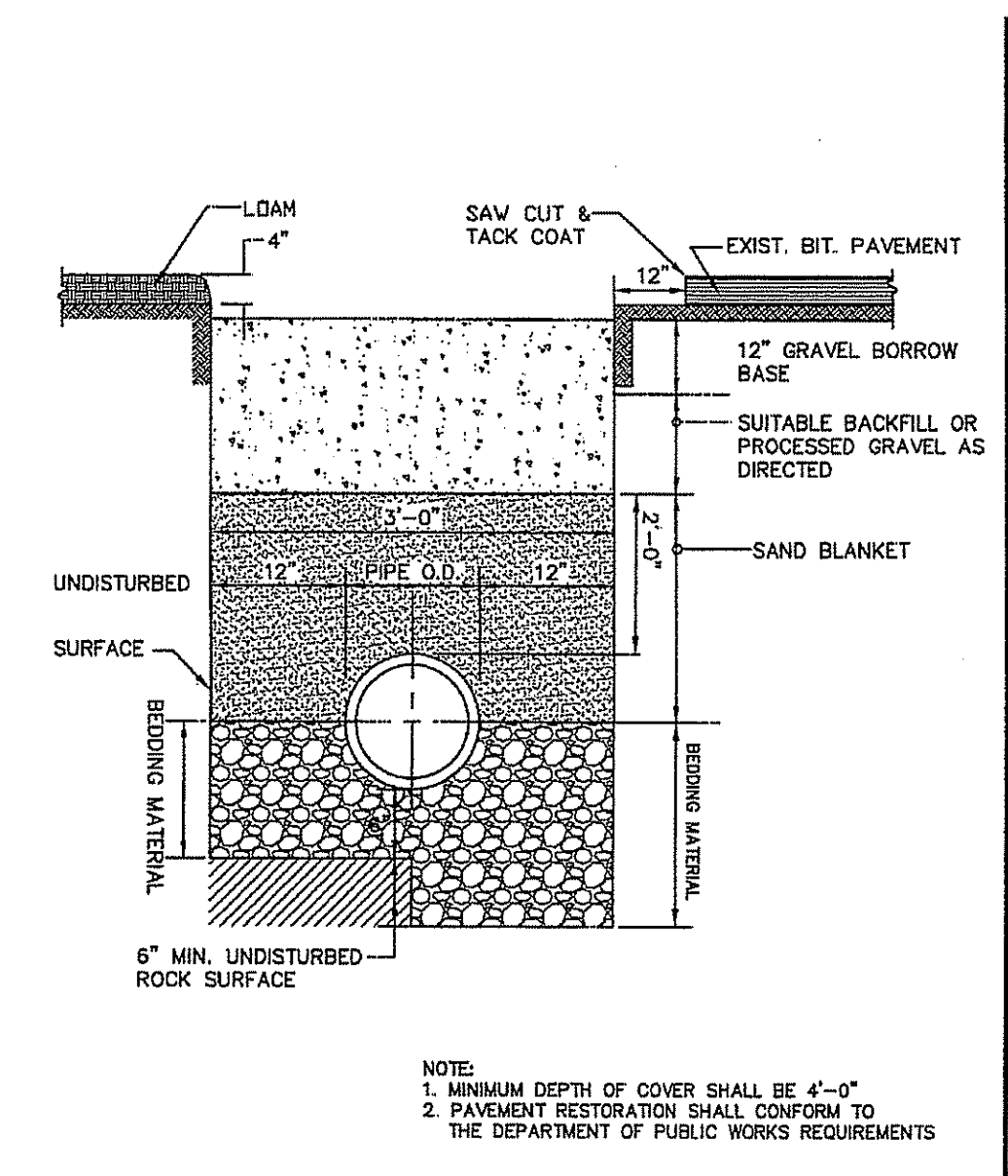
LOW PRESSURE SERVICE CONNECTION
NOT TO SCALE



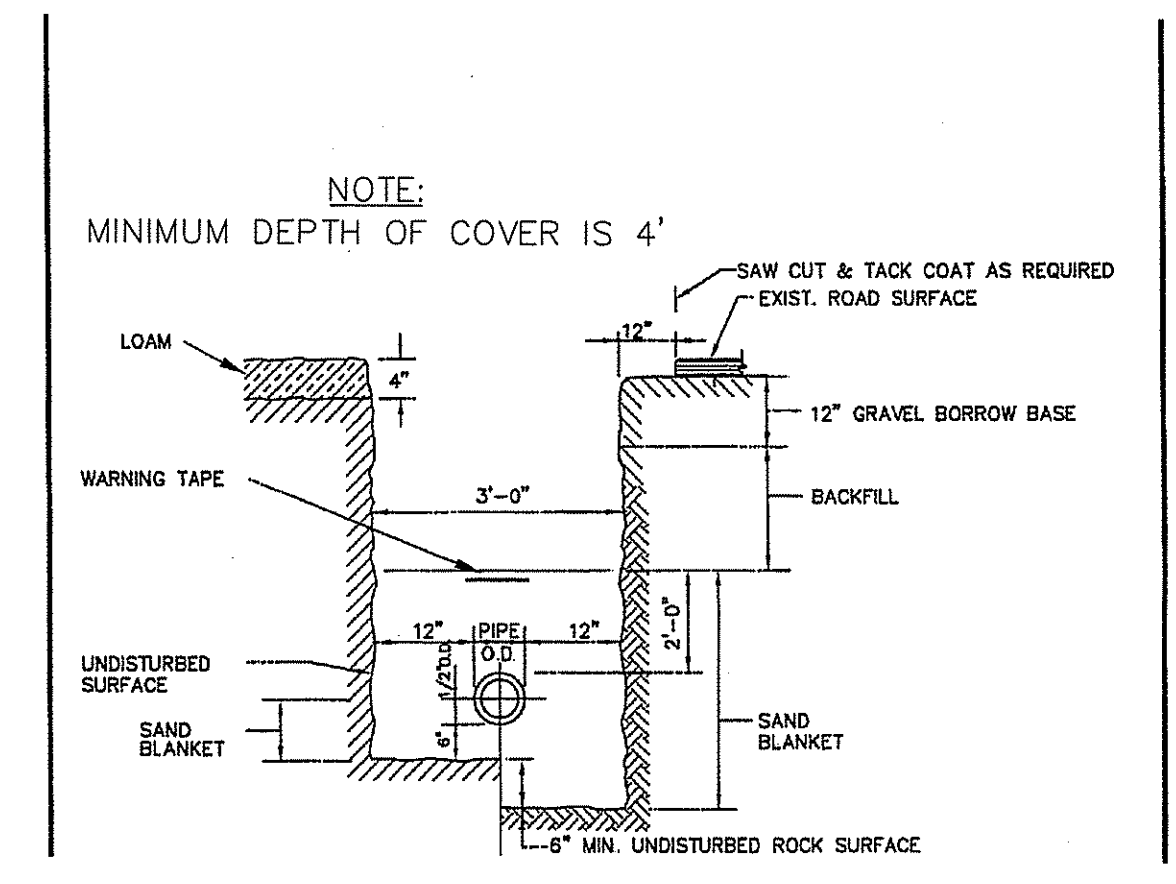
SEWER MANHOLE
NOT TO SCALE



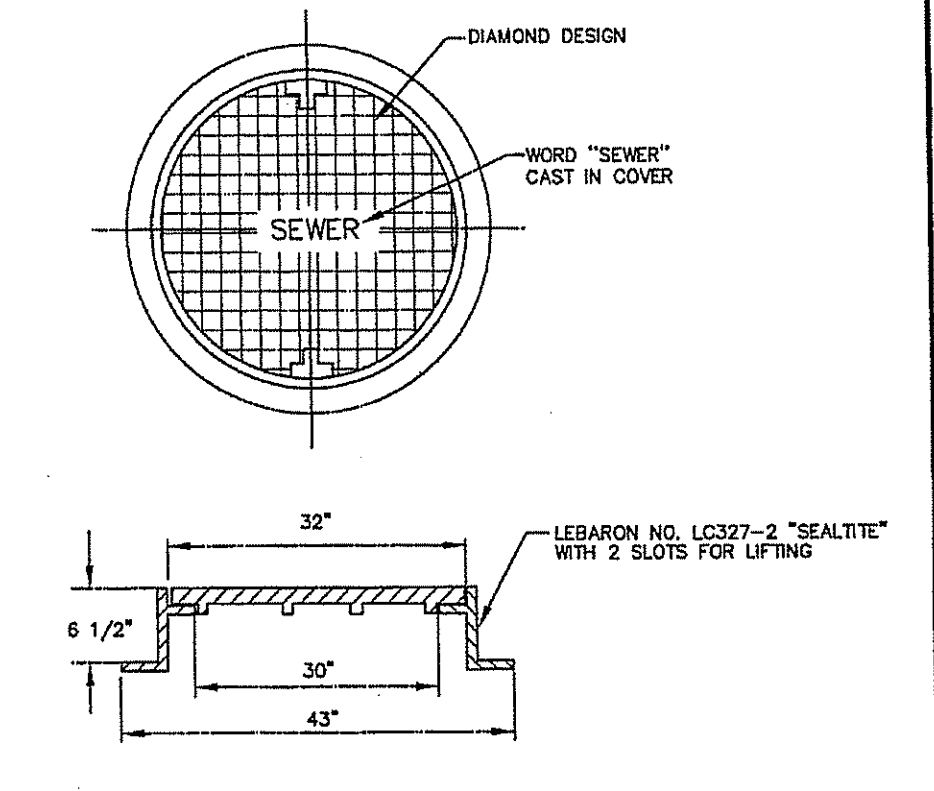
SEWER TRENCH (WET CONDITIONS)
NOT TO SCALE



SEWER TRENCH
NOT TO SCALE



LOW PRESSURE SEWER TRENCH
NOT TO SCALE



SEWER MANHOLE FRAME & COVER
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 16 2011 FILE # 10-0217
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles A. Herbert

PRELIMINARY PLAN
CORN FORTH INDUSTRIAL PARK

Steven M. Clarke
No. 44977
REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.
400 SMITH STREET
PROVIDENCE, RHODE ISLAND 02908
401-273-6600

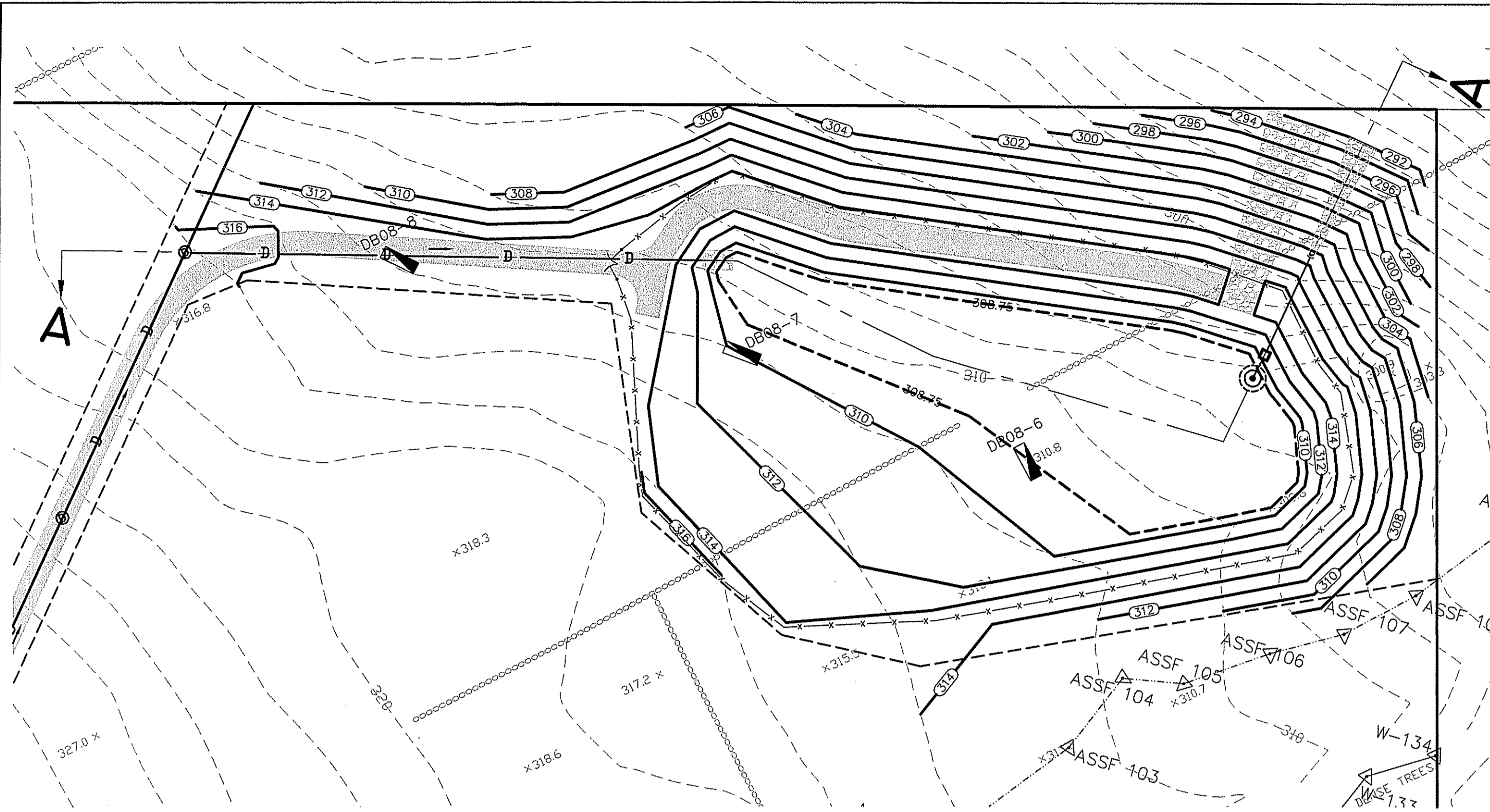
REVISIONS

No.	DATE	DRWN	CHKD

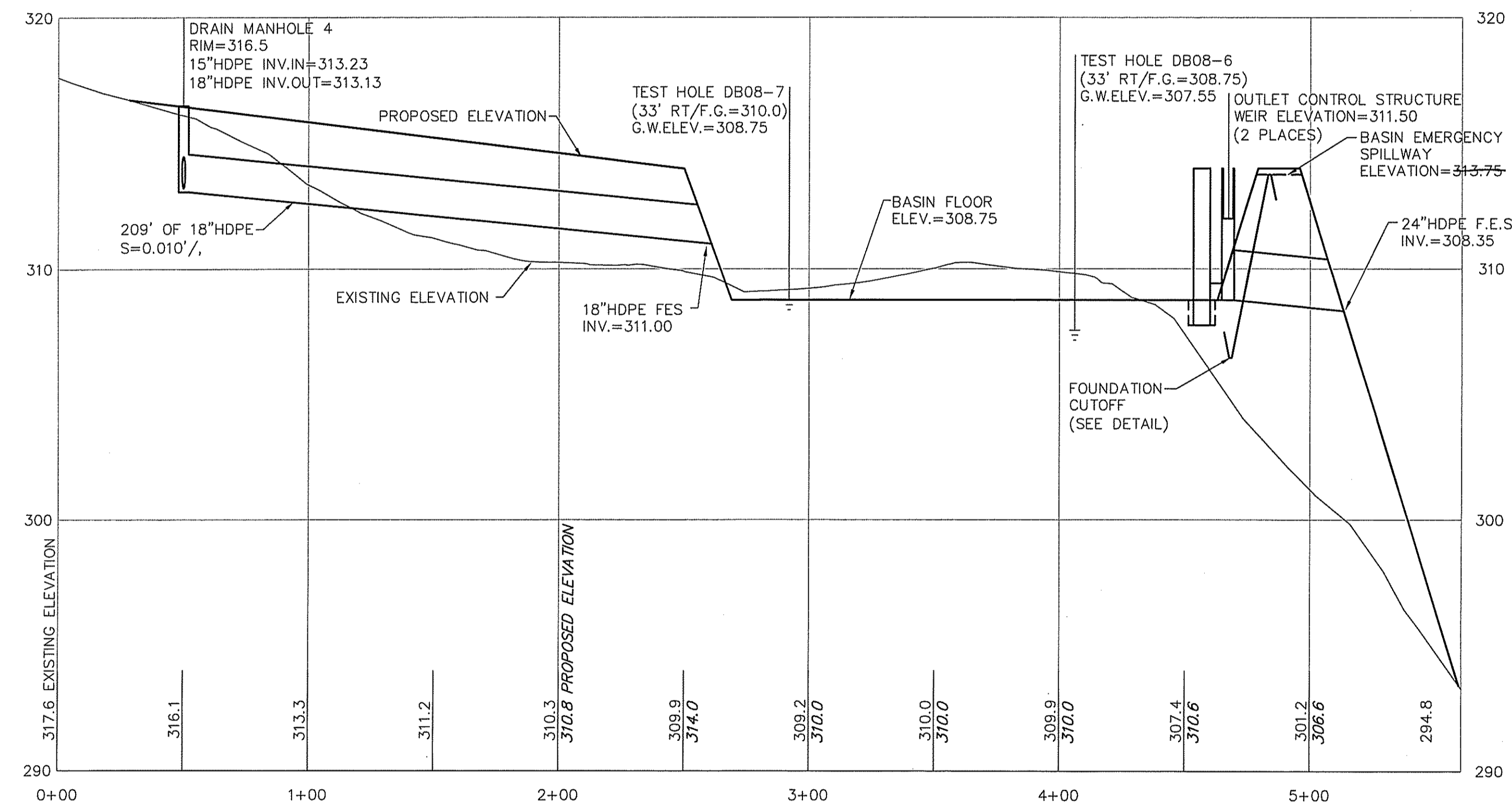
CONSTRUCTION DETAIL
for
A.P.1 LOT 459
QUAKER HIGHWAY
in
NORTH SMITHFIELD, RHODE ISLAND

SCALE: AS NOTED SHEET NO: 11 of 14
DRAWN BY: JP DESIGN BY: JP CHECKED BY: SMC
DATE: 12/28/10 PROJECT NO.: 10025

OWNER/APPLICANT
MR. JAMES CHACHARONE
THE ASTER GROUP
ONE WEST BOYLSTON STREET
SUITE 1105
WORCESTER, MA 01605



DETENTION BASIN PLAN VIEW
SCALE 1"=40'



SECTION A-A VIEW
SCALE 1"=40' HORIZONTAL / 1"=4' VERTICAL

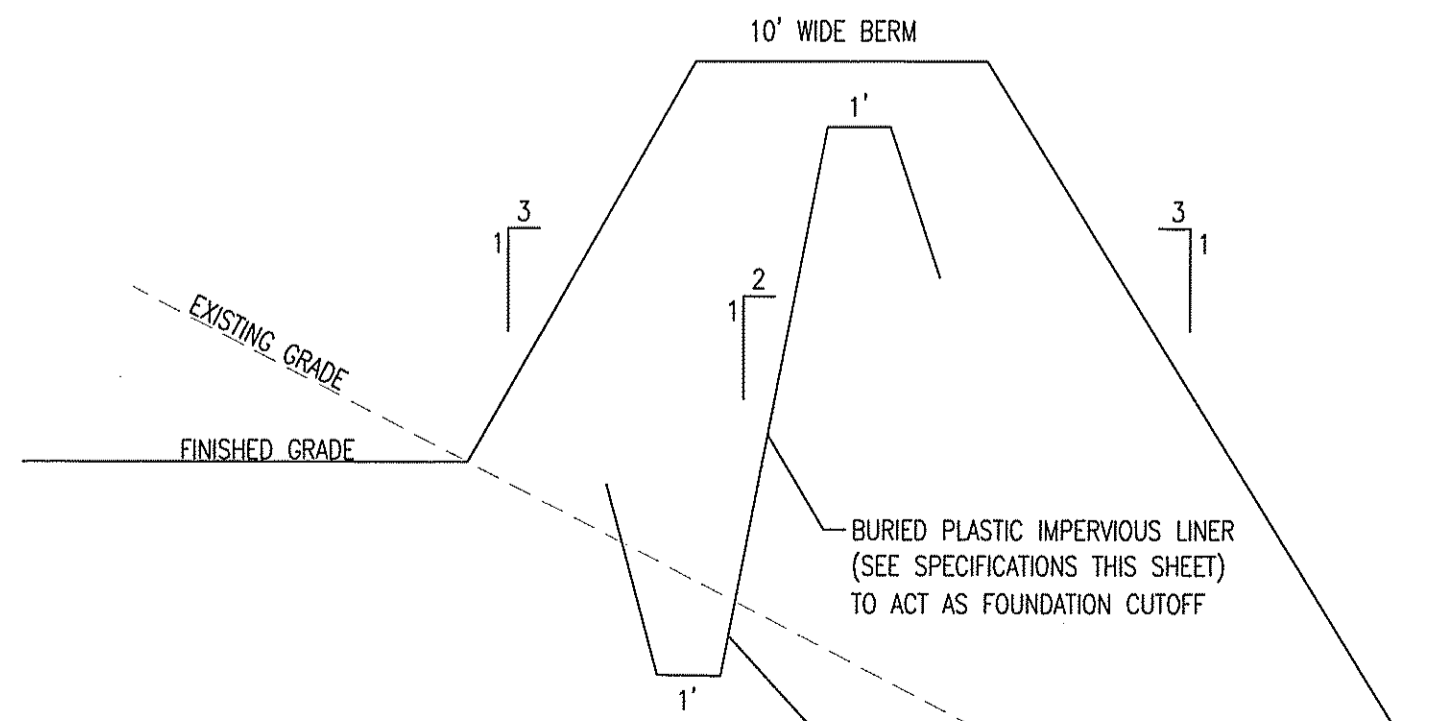
BURIED PVC IMPERVIOUS LINER NOTES

IMPERVIOUS LINER FORMED OF BLACK COLORED POLYVINYL CHLORIDE PLASTIC FILM. SEAL LINER SECTIONS BY BONDING WITH MANUFACTURER'S RECOMMENDED SOLVENT WITH 6-INCH OVERLAP AT JOINTS. ANCHOR LINE IN A TRENCH AT TOP OF SLOPE. AVOID DIRECT CONTACT WITH SUNLIGHT DURING CONSTRUCTION BEFORE COVERING WITH FILL AND IN COMPLETED INSTALLATION. THE LINER SHALL BE CAPABLE OF PROVIDING THE FOLLOWING MINIMUM PROPERTIES:

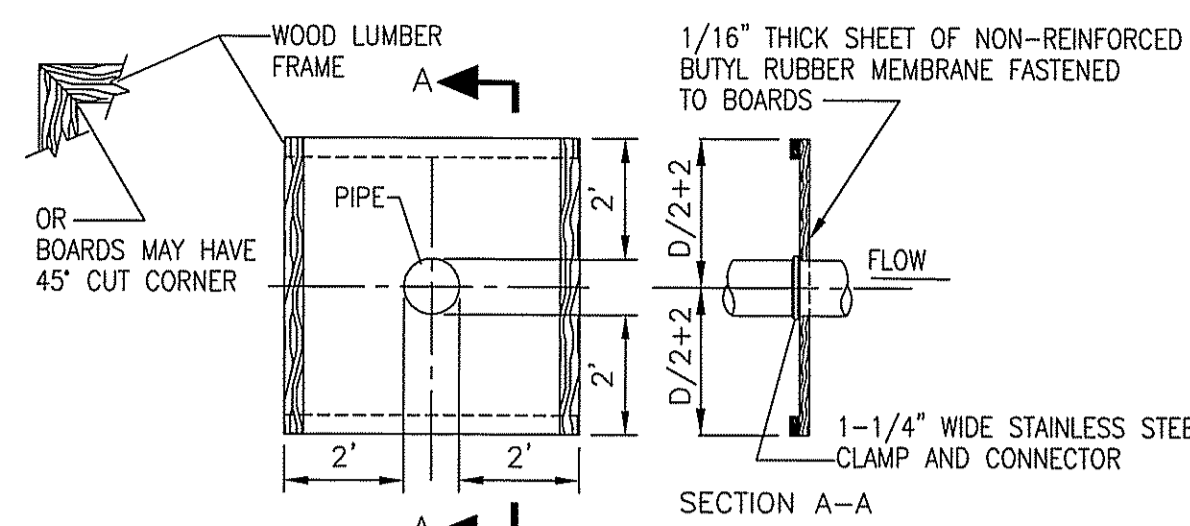
- | | | |
|---------------------------|-----------------|------------|
| 1. THICKNESS | 40 MILS | ASTM D1593 |
| 2. TENSILE STRENGTH YIELD | 54 LBS/IN WIDTH | ASTM D638 |
| 3. ELONGATION AT BREAK | 900% | ASTM D638 |
| 4. HYDROSTATIC RESISTANCE | 170 PSI | ASTM D751 |
| 5. TEAR RESISTANCE | 22 LBS | ASTM D1004 |

BASIN BERM MATERIAL SPECIFICATIONS

- SUBBASE FOR THE IMPERVIOUS LINER SHALL CONSIST OF A MINIMUM 6" FINE SAND AGGREGATE SUBBASE PLACED IN LOOSE LIFTS, COMPACTED, TRIMMED AND FINE GRADED. MAXIMUM SIZE FOR INCLUDED STONE/GRAVEL SHALL BE 1". ALL GRAVEL INCLUSIONS THAT ARE ANGULAR OR HAVE SHARP OR CHISELED EDGES SHALL BE REMOVED.
- BACKFILL MATERIAL FOR THE LINER SHALL BE A 12" LAYER OF FINE SAND AGGREGATE, PLACED IN LOOSE LIFTS AND COMPACTED OR CONSOLIDATED WITH A LIGHT TO MEDIUM DUTY SMOOTH DRUM OR VIBRATORY PLATE COMPACTION EQUIPMENT.
- BACKFILL SHALL BE PLACED FROM THE BOTTOM TO THE TOP OF SLOPES.
- A FINAL 4" LAYER OF LOAM BORROW SHALL BE PROVIDED FOR BASIN BERM AND SLOPES.

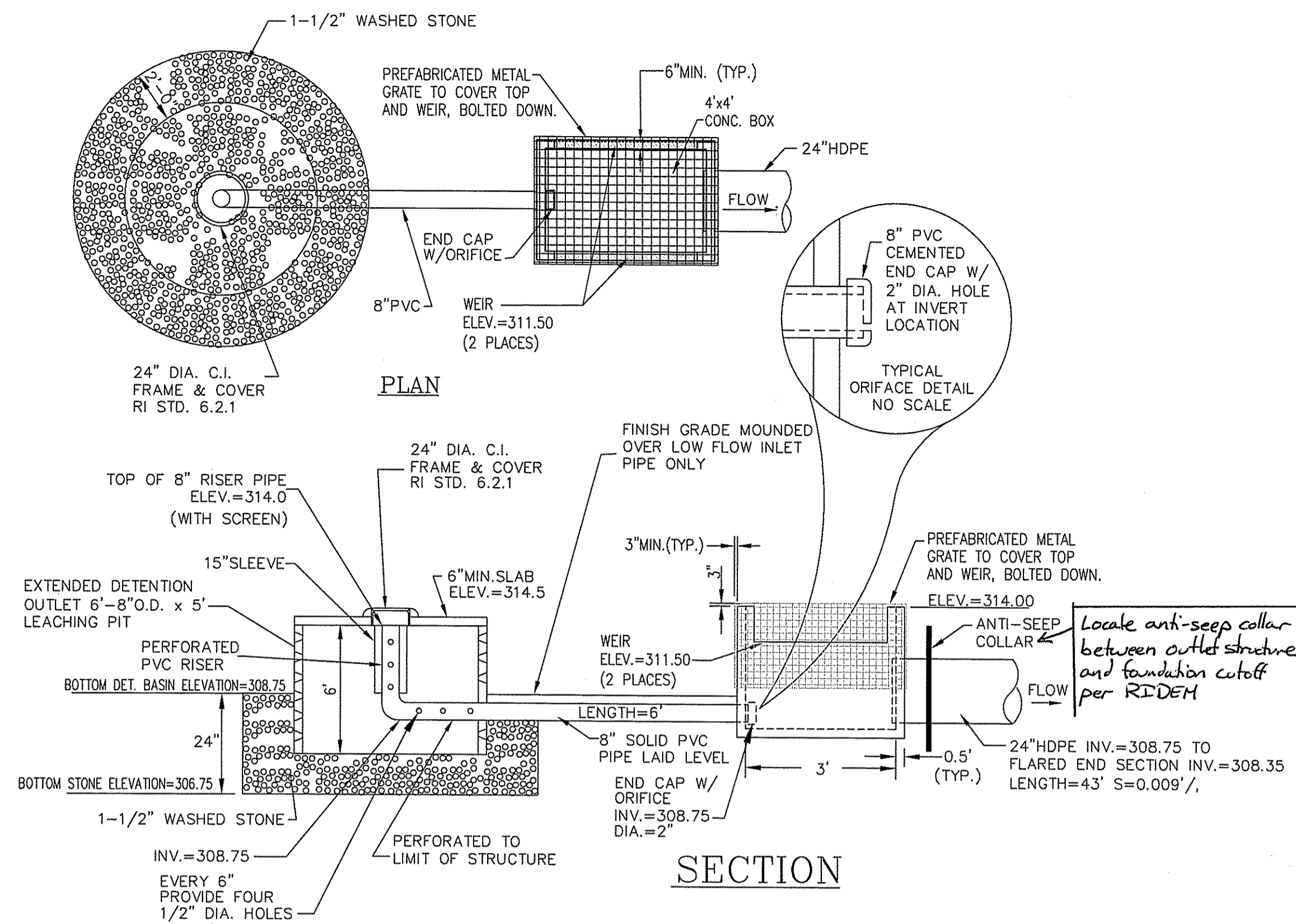


SURFACE DETENTION SYSTEM
FOUNDATION CUTOFF

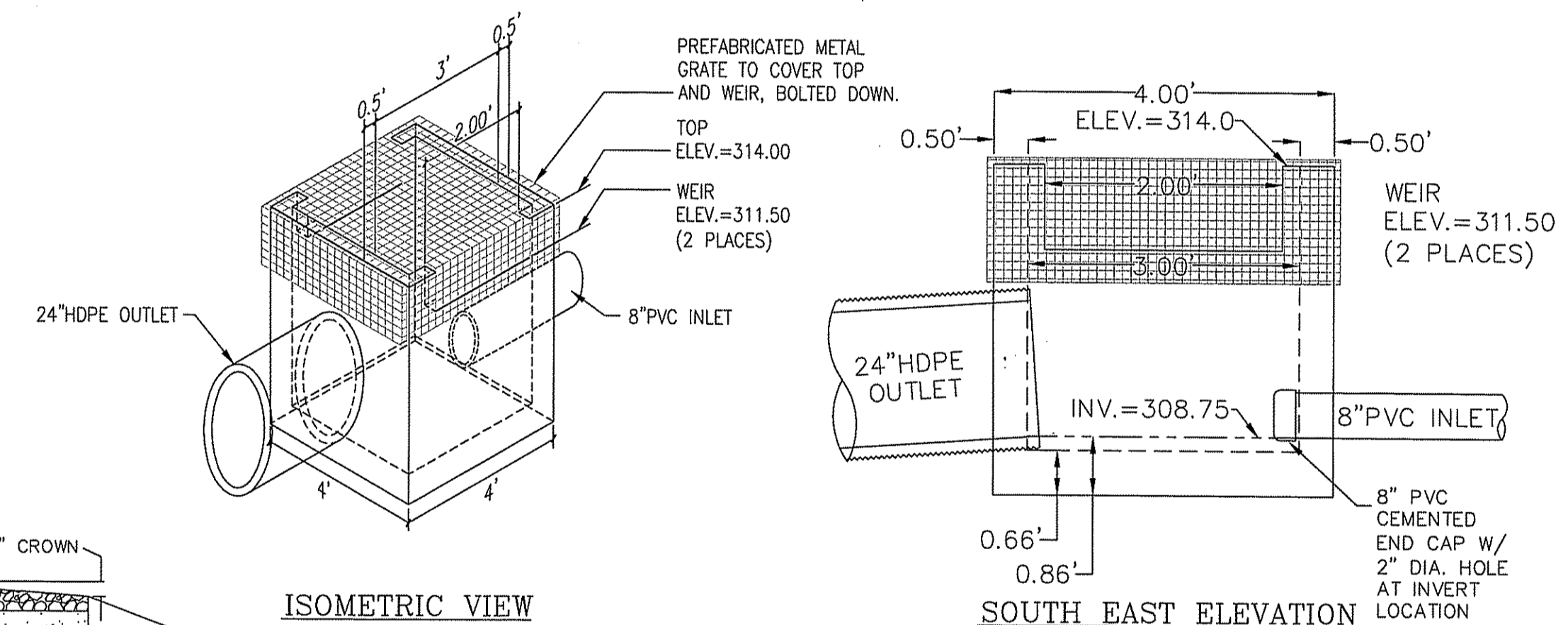


ANTI-SEEP COLLAR DETAIL
NOT TO SCALE

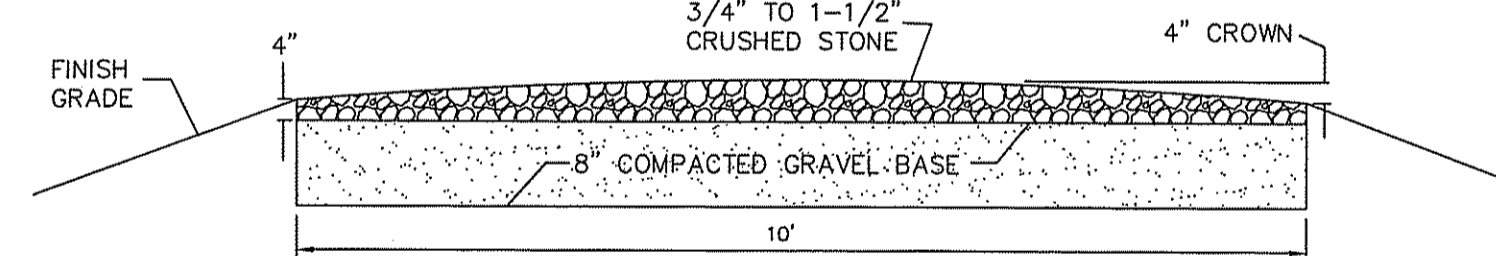
- NOTES:
- COAT PIPE AT COLLAR LOCATION WITH BUTYL RUBBER PATH CEMENT SEALER OR OTHER BUTYL RUBBER SEALER.
 - COMPLETED INSTALLATION MUST BE WATERTIGHT.
 - CUT CIRCULAR HOLE IN CENTER OF RUBBER SHEET 1/8" SMALLER THAN THE DIAMETER OF THE PIPE AND FORCE BUTYL RUBBER SHEET OVER UPSTREAM END OF PIPE AND OVER BUTYL RUBBER SEALER.
 - INSTALL A 1-1/4" WIDE STAINLESS STEEL STRAP. CLAMP AROUND PIPE OVER BUTYL RUBBER SHEET AND TIGHTEN UNTIL SEALER IS FORCED OUT. STAPLE BUTYL RUBBER SHEET TO LUMBER FRAME.
 - THE WOOD FRAME SHALL BE CONSTRUCTED FROM EITHER 1"x4" OR 2"x2" LUMBER AND SHALL BE RIGID ENOUGH TO WITHSTAND BACKFILL OPERATIONS.



DETENTION BASIN OUTLET STRUCTURE
NOT TO SCALE (SHOP DRAWING SUBMITTAL REQUIRED)



DETENTION BASIN OUTLET STRUCTURE
NOT TO SCALE (SHOP DRAWING SUBMITTAL REQUIRED)

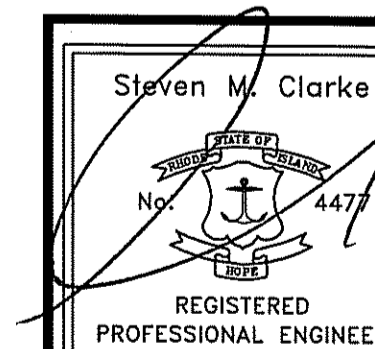


GRAVEL ACCESS ROAD TYPICAL CROSS SECTION DETAIL
NOT TO SCALE

OWNER/APPLICANT
MR. JAMES CHACHARONE
THE ASTER GROUP
ONE WEST BOYLSTON STREET
SUITE LL05
WORCESTER, MA 01605

PRELIMINARY PLAN
CORNFORTH INDUSTRIAL PARK

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 16 2011 FILE # 10-0217
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



REVISIONS				
No.	DATE	DRWN	CHKD	
1	1/25/11	JP	JAR	
2	4/5/11	JAR	SMC	

CONSTRUCTION DETAILS
for
A.P.1 LOT 459
QUAKER HIGHWAY
in
NORTH SMITHFIELD, RHODE ISLAND

SCALE: AS NOTED	SHEET NO: 13 of 14	
DRAWN BY: JP	DESIGN BY: JP	CHECKED BY: SMC
DATE: 12/28/10	PROJECT NO.: 10025	

CATCH BASIN & DETENTION BASIN MAINTENANCE NOTES:

- SIDE-SLOPES, EMBANKMENTS, AND THE UPPER STAGE OF THE BASIN WILL BE MOWED AT LEAST ONCE PER GROWING SEASON, TO PREVENT UNWANTED WOODY GROWTH. THIS STORM WATER FACILITY IS TO BE MANAGED FOR WILDLIFE HABITAT, THEREFORE, MOWINGS WILL BE CONDUCTED AFTER MID AUGUST TO PREVENT MORTALITY TO GROUND NESTING BIRDS AND ANIMALS.
- ALL TRASH AND LITTER AND OTHER DEBRIS WILL BE REMOVED FROM THE STORM WATER FACILITY INCLUDING INLET AND OUTLET STRUCTURES. THIS WILL BE ACCOMPLISHED AT LEAST TWICE PER YEAR, PREFERABLY SPRING AND FALL.
- INSPECTIONS OF ALL CATCH BASINS SHALL OCCUR ON AN ANNUAL BASIS TO CHECK FOR DEBRIS REMOVAL (SEDIMENT AND HYDROCARBONS) AND STRUCTURAL INTEGRITY OR DAMAGE. SUCH DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY.
- SEDIMENTS WILL BE REMOVED FROM THE DETENTION BASIN IMMEDIATELY FOLLOWING SITE STABILIZATION AND EVERY YEAR THEREAFTER. ACCUMULATED SEDIMENTS MAY HAVE TO BE REMOVED MORE FREQUENTLY IF THE SEDIMENT STORAGE CAPACITY OF THE FOREBAYS OR SEDIMENT STORAGE AREAS ARE WITHIN THE LAST 10 PERCENT OF AVAILABLE CAPACITY. SEDIMENT REMOVAL WITHIN THE BASIN WILL RESTORE THE ORIGINAL CAPACITY AND DESIGN DEPTH.
- IF BLOCKAGE OF A DETENTION BASIN OUTLET STRUCTURE OCCURS IT MAY BE NECESSARY TO DEWATER THE POND FOR ACCESS TO THE BLOCKAGE. THE DEWATERING FLOW MUST BE ADEQUATELY FILTERED PRIOR TO DISCHARGE INTO A RECEIVING WATER BODY TO REMOVE SUSPENDED SOLIDS.
- POOLS OF STAGNANT WATER IN DETENTION BASINS INDICATES FAILURE DUE TO EROSION AND SCOURING OF THE BASIN BOTTOM, PARTICULARLY NEAR AN INLET DEVICE. THIS DEFICIENCY WILL BE CORRECTED IMMEDIATELY TO PREVENT A NUISANCE HABITAT FOR INSECTS, ESPECIALLY MOSQUITOES.
- ALL OUTLET STRUCTURES AND OUTFLOW CHANNELS WILL BE INSPECTED ANNUALLY. INSPECTIONS WILL BE ACCOMPLISHED SEVERAL TIMES DURING THE FIRST SIX MONTHS OF OPERATION, ESPECIALLY AFTER RAINFALL EVENTS TO CHECK FOR CLOGGING OR, CONVERSELY, TOO RAPID OF A RELEASE.
- THE GRASSED AREAS OF THE DETENTION BASIN WILL BE INSPECTED AT LEAST TWICE PER YEAR TO CHECK FOR EROSION PROBLEMS. PROBLEM AREAS MUST BE RESEED IMMEDIATELY TO STABILIZE EXPOSED SOILS, THEREBY PREVENTING EROSION AND POTENTIAL CLOGGING OF OUTFLOW DEVICES.
- REPAIRS OR REPLACEMENT OF INLET/OUTLET STRUCTURES, RIP-RAP CHANNELS, FENCES, OR OTHER ELEMENTS OF THE FACILITY WILL BE DONE WITHIN 30 DAYS OF DEFICIENCY REPORTS. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR/REPLACEMENT MUST BE DONE IMMEDIATELY TO AVERT FAILURE OR DANGER TO NEARBY RESIDENTS.
- ALL SEDIMENT GENERATED DURING CONSTRUCTION AND AS A RESULT OF MAINTENANCE OF THE DRAINAGE SYSTEM MUST BE DISPOSED OF PROPERLY. SEDIMENT SHALL NOT BE DISPOSED OF IN OR NEAR STATE OR FEDERAL REGULATED WATERS.
- RECORDS OF THE FIRST TWO YEARS OF MAINTENANCE FOLLOWING CONSTRUCTION SHALL BE SUBMITTED TO RIDEM DIVISION OF WATER RESOURCES. MAINTENANCE RECORDS FOR SUBSEQUENT YEARS SHALL BE KEPT ON FILE AND SUBMITTED TO RIDEM, DIVISION OF WATER RESOURCES, UPON REQUEST.
- ALL DRAINAGE FACILITIES WILL BE MAINTAINED BY A PRIVATE HOMEOWNER'S ASSOCIATION.

EROSION CONTROL AND SOIL STABILIZATION PROGRAM:

- DENUDED SLOPES SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF TIME, SUCH AS THE INACTIVE WINTER SEASONS.
- ALL SLOPES 3:1 OR GREATER SHALL BE HYDROSEEDING WITH AN APPLICABLE SLOPE SEED MIX AND TACKIFIER.
- 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 HAY BALES OR TEMPORARY PROTECTION SHALL REMAIN IN-PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
- 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 RHODE ISLAND STANDARD SPECIFICATION M.20.01.
- ALL SLOPES 3:1 OR GREATER SHALL BE HYDROSEEDING WITH AN APPLICABLE SLOPE SEED MIX AND TACKIFIER.
- THE SEED MIX SHALL BE INOCULATED WITHIN 24-HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
- THE DESIGN MIX UTILIZED IN ALL DISTURBED AREAS TO BE SEEDING SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	% BY WEIGHT	SEEDING DATE
CREeping RED FESCUE	70	APRIL 1 - JUNE 15
ASTORIA BENTGRASS	5	AUGUST 15 - OCTOBER
BIRDFOOT TREFOIL	5	
PERENNIAL RYEGRASS	10	
- APPLICATION RATE 100 LBS/ACRE
LIMING AND FERTILIZING AS REQUIRED TO COMPLEMENT OR UPGRADE EXISTING CONDITIONS.
- 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 1ST THROUGH OCTOBER 15TH.
- STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING.
- STOCKPILES OF TOPSOIL AND EARTH MATERIALS SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY PERCENT (30%) AND STOCKPILE SHALL ALSO BE SEEDING AND/OR STABILIZED.
- ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
- TREES TO BE RETAINED SHALL BE FENCED OR ROPED OFF TO PROTECT THEM FROM CONSTRUCTION EQUIPMENT.
- ALL PROPOSED PLANTINGS MUST BE ACCOMPLISHED AS EARLY AS POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION, AND AT LEAST PRIOR TO ANY ON-SITE OCCUPANCY.
- ALL PROPOSED PLANTINGS MUST BE MAINTAINED BY THE PROPERTY OWNER TO ENSURE SURVIVAL.
- 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 OWNER SHALL BE FULLY RESPONSIBLE FOR REPLACING AND MAINTAINING THE SAME PLANT SPECIES FOR ONE (1) ADDITIONAL GROWING SEASON.
- ALL DISTURBED AREAS MUST BE SEEDING OR PLANTED WITHIN THE CONSTRUCTION SEASON.
- TEMPORARY SEEDING MUST BE DONE WITHIN ONE (1) MONTH AFTER DISTURBANCE.
- ALL DISTURBED AREAS MUST BE PERMANENTLY SEEDING OR PLANTED BEFORE OCTOBER 1ST, IF NOT THEY MUST BE TEMPORARILY SEEDING.

SEDIMENTATION CONTROL PROGRAM:

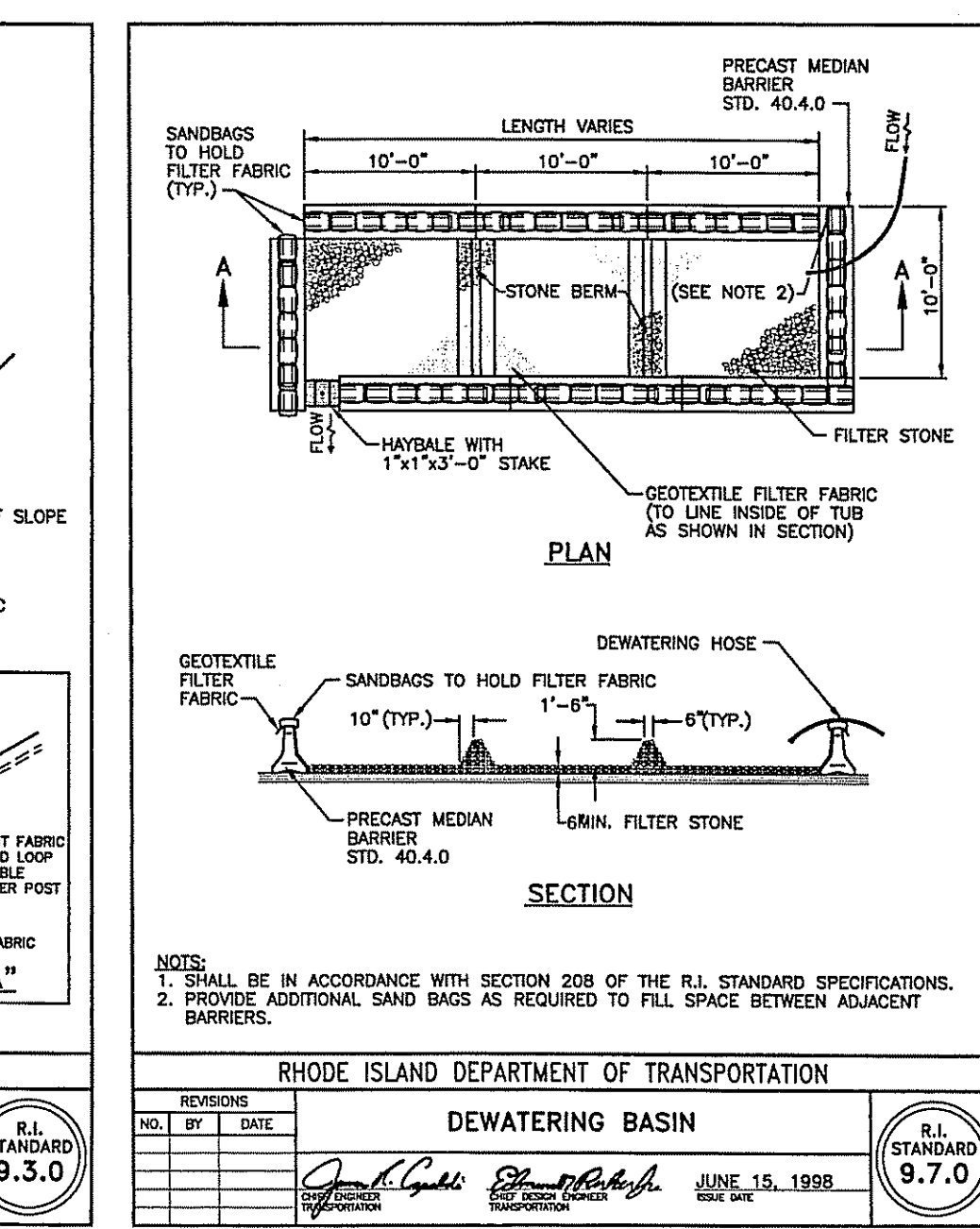
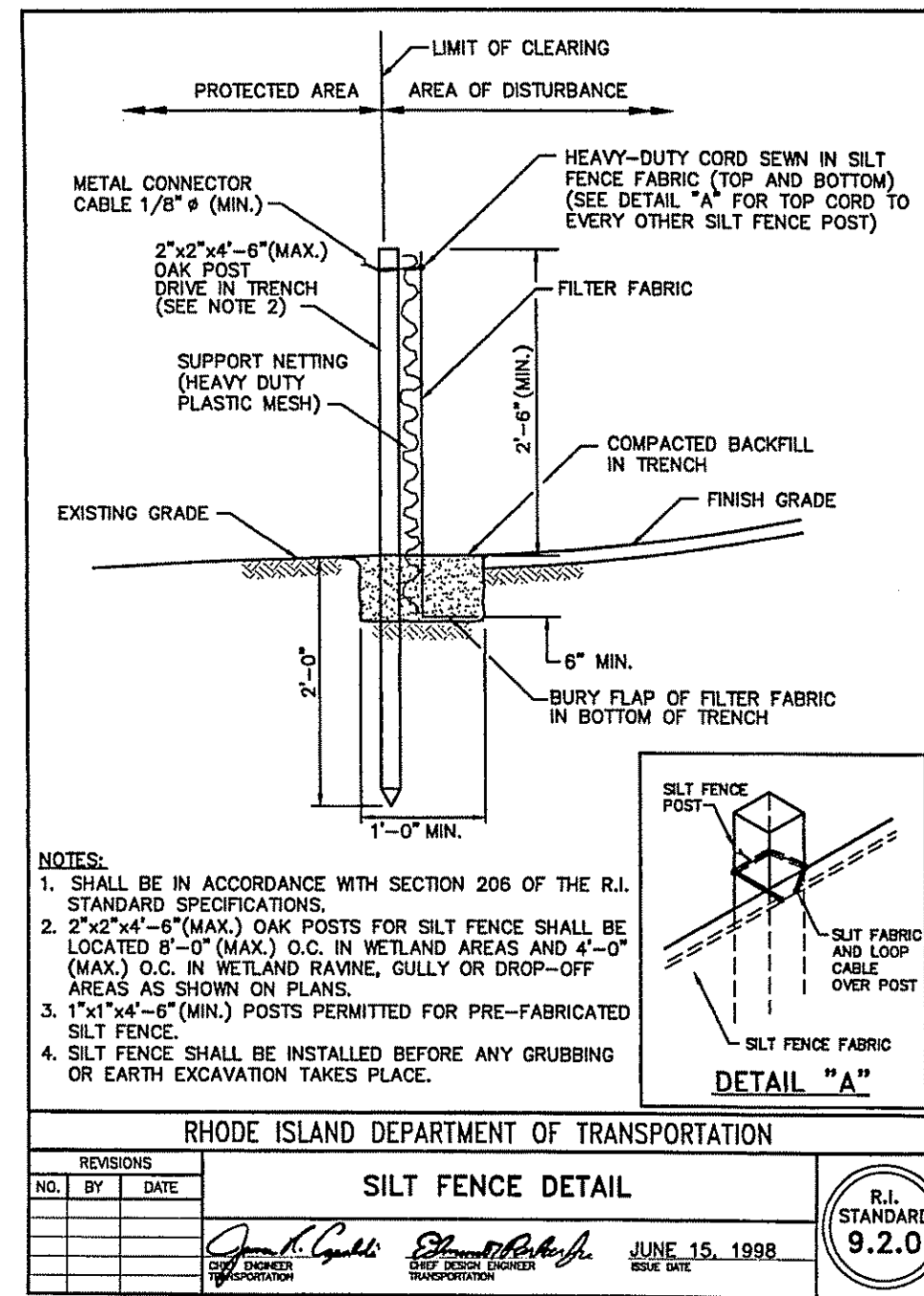
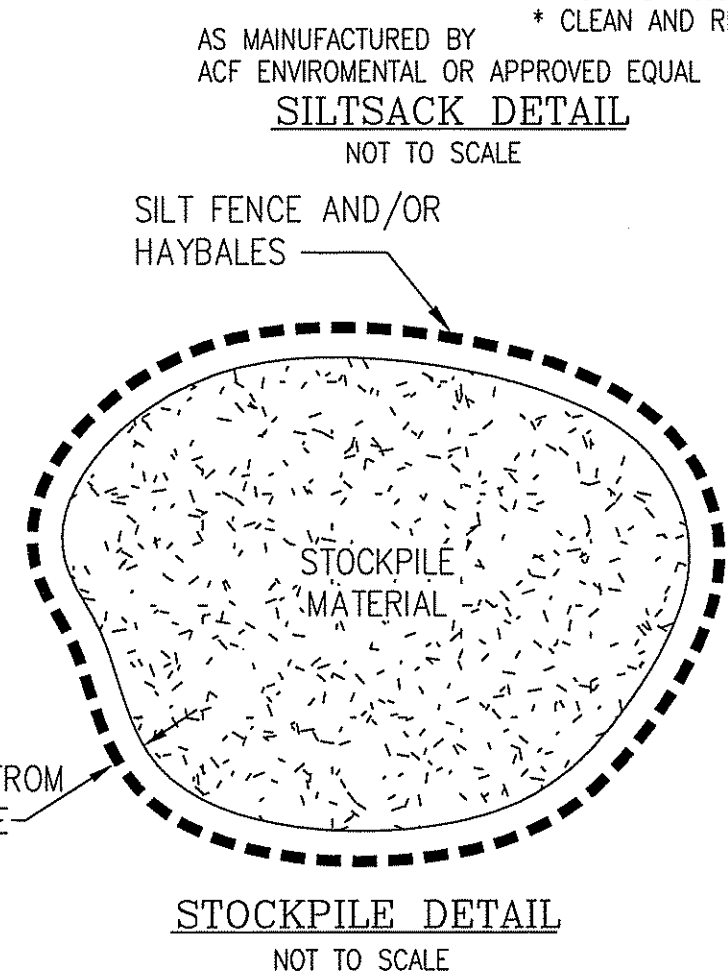
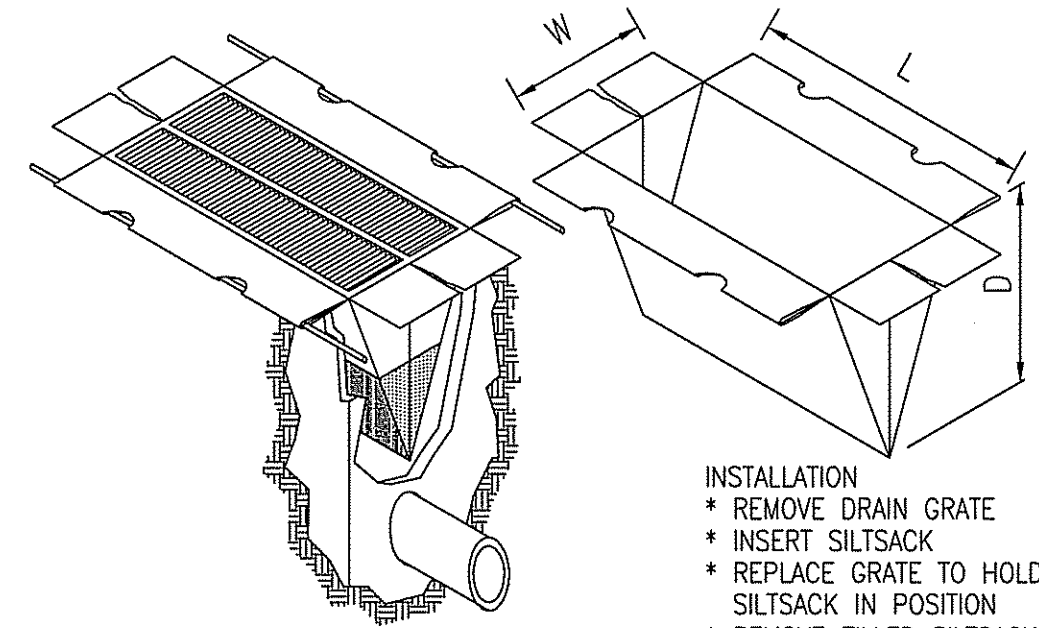
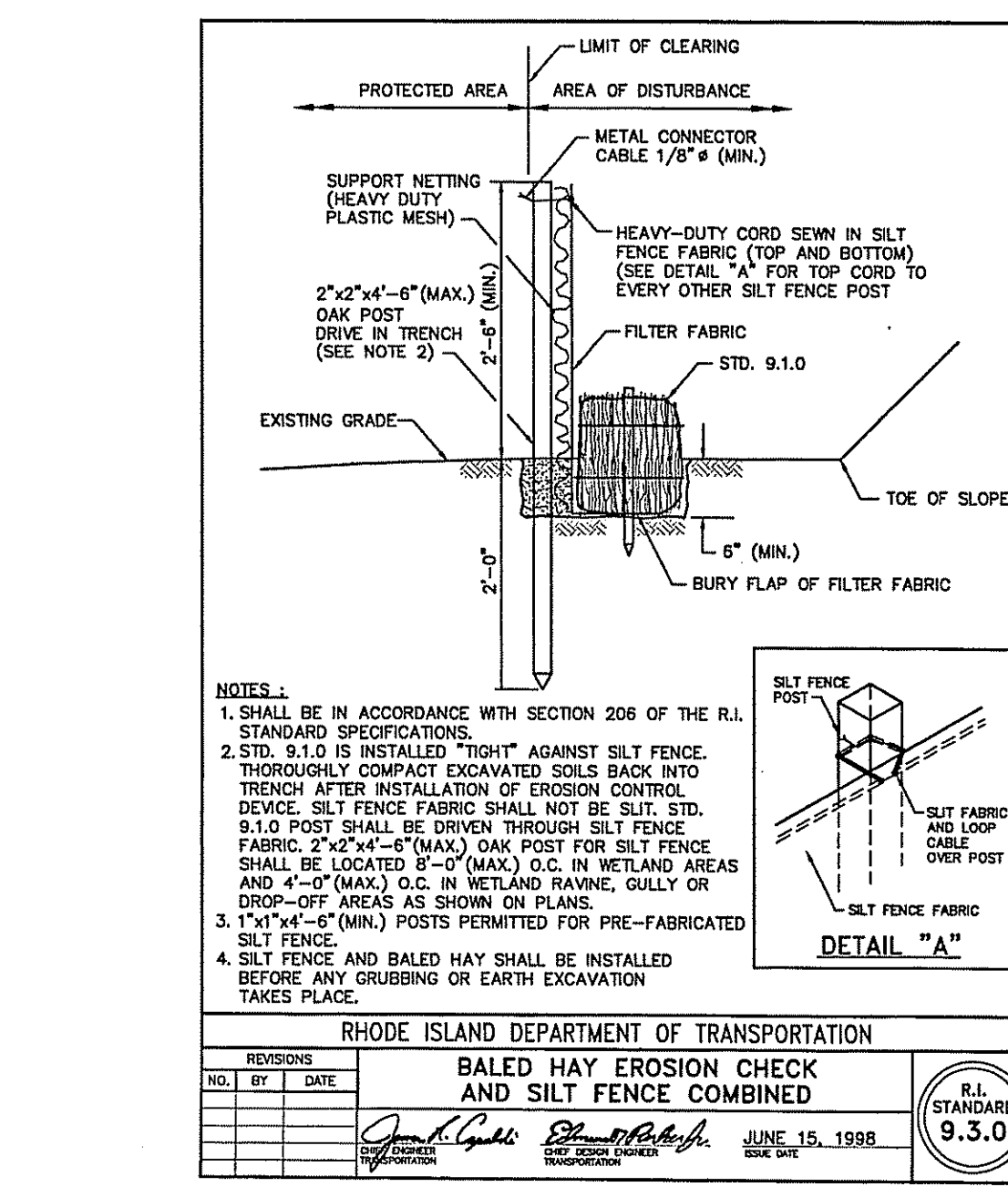
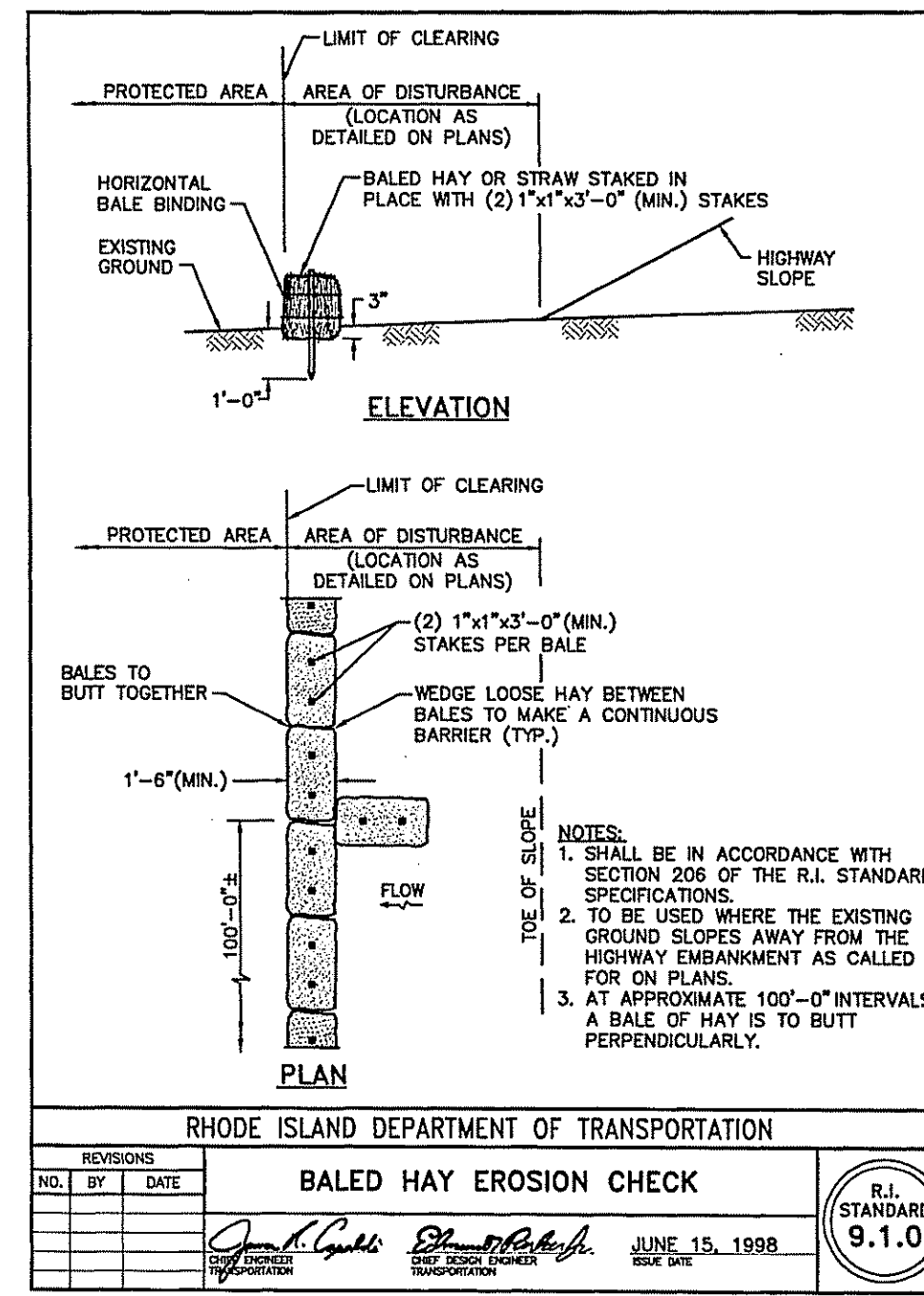
- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING DOWNSTREAM WATERCOURSES AND STORMWATER DRAINAGE SYSTEMS.
- DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUN-OFF FLOW DURING STORMS AND PERIODS OF HEAVY RAINFALL.
- 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.
- UPON COMPLETION OF CONSTRUCTION OF SITE IMPROVEMENTS AND THE STORMWATER DRAINAGE SYSTEM, ALL CATCH BASINS AND STORM DRAIN PIPING SHALL BE CLEANED OF SEDIMENT. DETENTION BASINS SHALL BE CLEANED OF SEDIMENT TO THE DESIGN GRADES INDICATED.
- AT NO TIME DURING CONSTRUCTION SHALL THE SUBGRADE OF THE SITE 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. 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.
- ALL COMPONENTS OF THE DRAINAGE SYSTEM MUST BE CLEANED OF SEDIMENT BY THE APPLICANT OR HIS REPRESENTATIVE IMMEDIATELY AFTER CONSTRUCTION IS COMPLETED.
- INSPECT TEMPORARY DIVERSIONS AND THEIR COMPONENTS ONCE A WEEK AND AFTER EVERY RAINFALL. DAMAGE CAUSED BY CONSTRUCTION TRAFFIC OR OTHER ACTIVITY SHOULD BE REPAIRED BEFORE THE END OF EACH WORKING DAY. A SEDIMENTATION TRAP. THE MOUTH OF THE TRAP SHALL BE LINED WITH HAYBALES AROUND THE COMPLETE PERIMETER. DURING ALL PRELIMINARY STAGES, THE TOP OF THE STRUCTURE SHALL ALWAYS BE HIGHER THAN THE SUBGRADE.
- CHECK DAMS SHALL BE INSTALLED EVERY 300 FEET FOR SLOPES OF 1% OR LESS, EVERY 200 FEET FOR SLOPES OF 2% TO 5%, AND EVERY 100 FEET FOR SLOPES OF 5% OR GREATER.
- SEDIMENTS SHOULD BE REMOVED FROM THE CHECK DAM WHEN IT REACHES ONE-HALF THE DAM HEIGHT.

DRAINAGE & UTILITY NOTES:

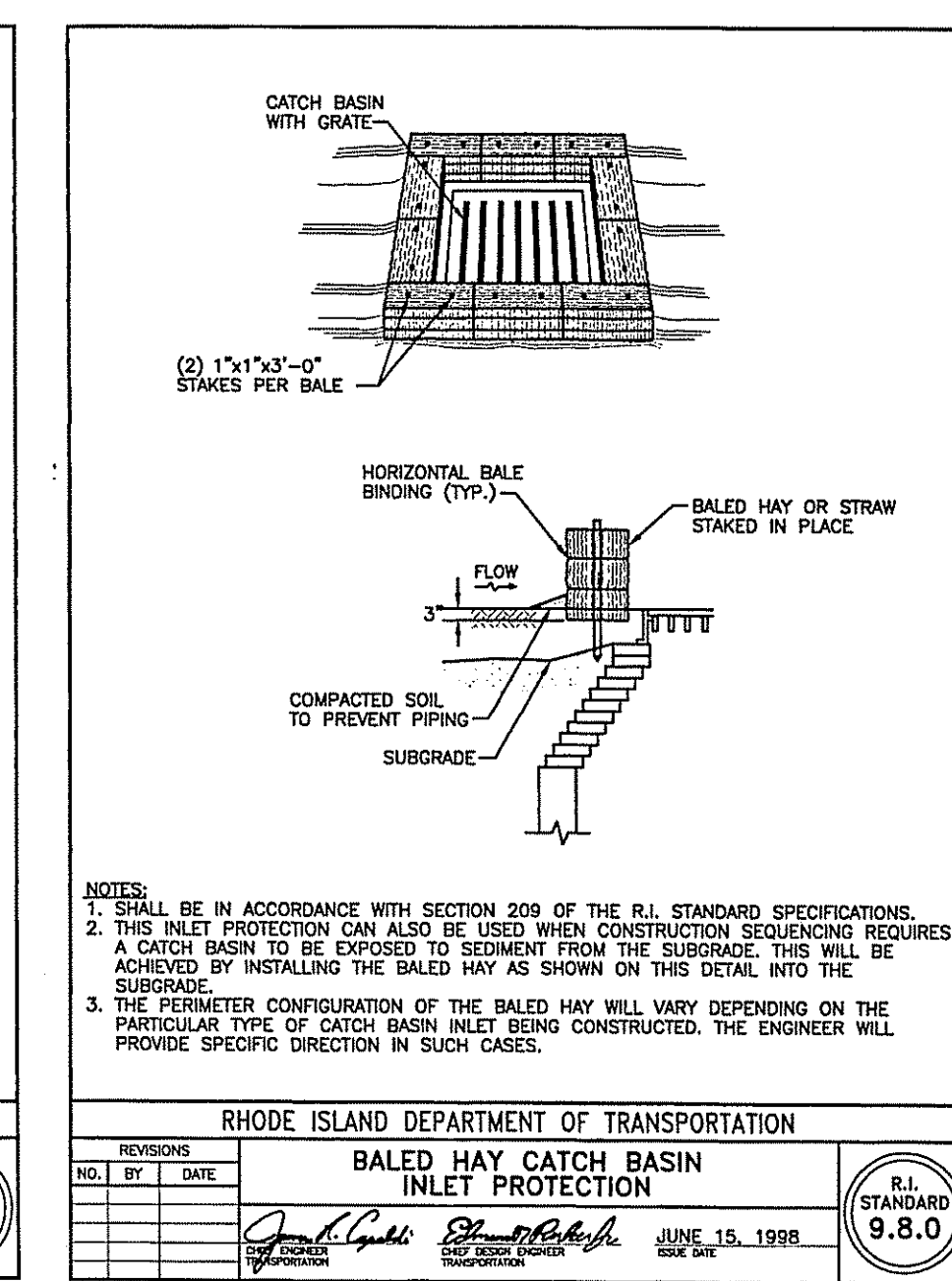
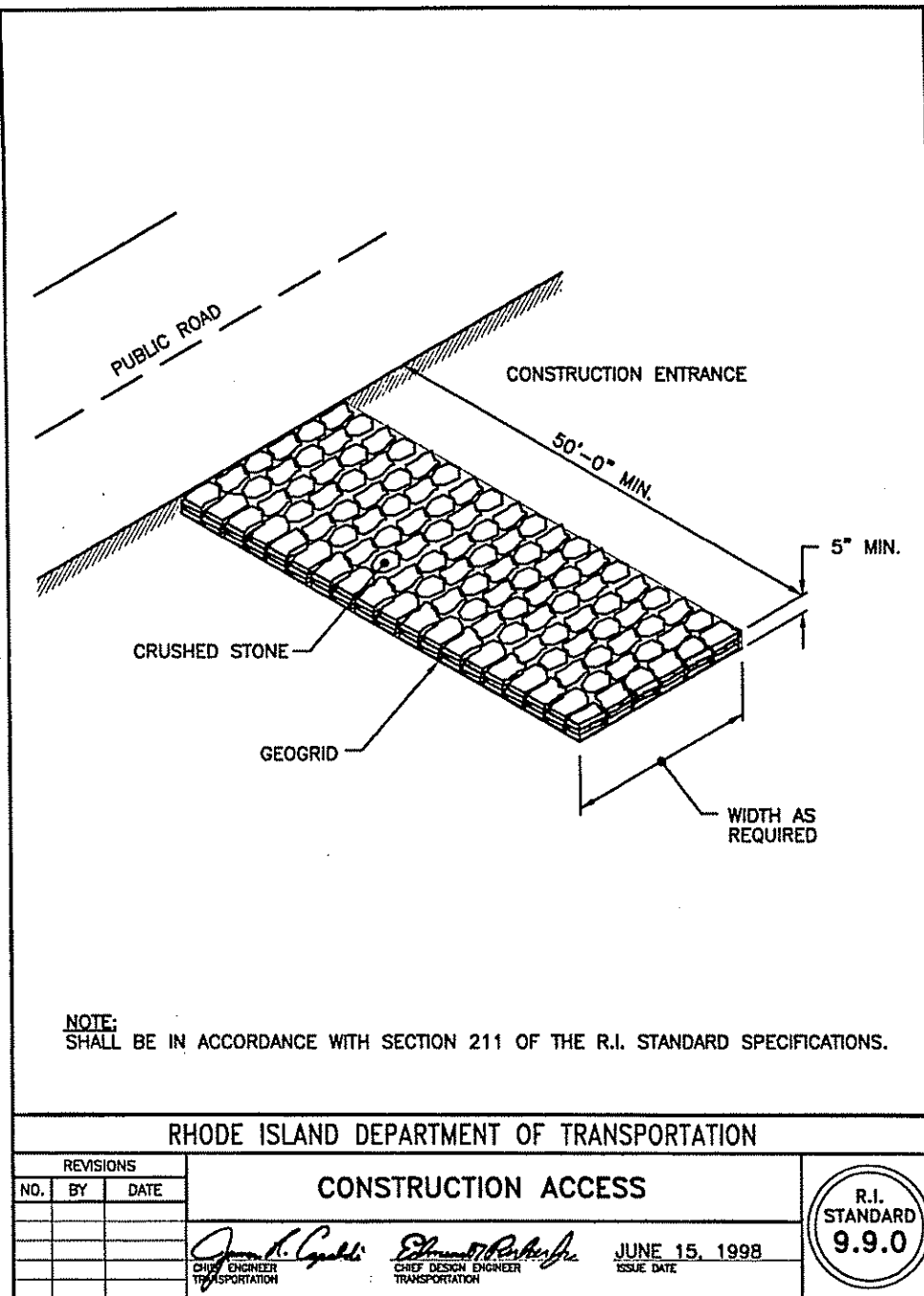
- THE LOCATION OF EXISTING UTILITIES IS BASED UPON THE BEST AVAILABLE INFORMATION. THE LOCATIONS AND ELEVATIONS SHALL BE CONSIDERED APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF ANY CONSTRUCTION.
- UTILITY LOCATION VERIFICATION IS TO INCLUDE TEST HOLES AS NEEDED.
- ALL UNDERGROUND UTILITIES AND STORM DRAINAGE COLLECTION SYSTEM COMPONENTS WITHIN THE RIGHT-OF-WAY AND SIDEWALK AT ACCESS POINTS TO THE NATIONAL GRID ELECTRIC EASEMENT WILL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE H-20 VEHICLE LOADINGS.
- ALL SANITARY SEWER INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL MUNICIPAL SEWER AUTHORITY. SEWER AUTHORITY REQUIREMENTS FOR PIPE MATERIALS, INSTALLATION, TESTING AND AS-BUILT DOCUMENTATION ARE APPLICABLE TO THIS PROJECT.
- UNDERGROUND UTILITIES, ELECTRIC, TELEPHONE, FIRE ALARM CABLE TELEVISION AND GAS SERVICES SHALL BE INSTALLED PER THE REQUIREMENTS OF THE APPLICABLE SITE UTILITY PROVIDER.
- ALL ON SITE STORM WATER DRAINAGE PIPE SHALL BE ADS N-12, HDPE BY HANCOR OR AN APPROVED EQUAL UNLESS NOTED OTHERWISE ON THE PLANS.
- ALL INLINE DRAIN STRUCTURES AND RELATED APPURTENANCES SHALL BE AS MANUFACTURED BY "NYLOPLAST" OR "DRAIN-RITE" AS MANUFACTURED BY "HANCOR" OR AN APPROVED EQUAL.
- METALLIC WARNING TAPE SHALL BE INSTALLED 12" ABOVE ALL STORM DRAIN AND OTHER UTILITIES.

GENERAL NOTES:

- THE LOCATION AND ELEVATION FOR ALL EXISTING UTILITIES SHALL BE CONSIDERED APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ANY CROSSINGS OF PROPOSED UTILITIES AND EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES RELATIVE TO THE LOCATION AND ELEVATION OF THEIR FACILITIES AND ANY DISCREPANCIES IN THE LOCATION OF ANY UTILITY SHOWN OR ENCOUNTERED DURING CONSTRUCTION SHALL BE REPORTED TO COMMONWEALTH ENGINEERS & CONSULTANTS, INC. 400 SMITH STREET, PROVIDENCE, RHODE ISLAND 02908; (401) 273-6600.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING "DIG-SAFE" AT 1-888-344-7233 TO COMPLY WITH STATE LAW PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITY.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH OSHA REQUIREMENTS APPLICABLE TO ALL SITE CONSTRUCTION AND ANY APPLICABLE LOCAL, STATE AND FEDERAL LAWS GOVERNING HIS INTENDED ACTIVITIES.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND ABUTTING PROPERTIES. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY THE APPROPRIATE STATE AND MUNICIPALITY PRIOR TO COMMENCING ANY WORK.
- 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 THIS MATERIAL DOES NOT BECOME A NEIGHBORHOOD NUISANCE.



ALTERNATES FOR 9.7.0 TO BE CONSIDERED BASED UPON SHOP DRAWING SUBMITTAL AND APPROVAL



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
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 DATED MAY 16 2011 FILE # 10-0247
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
 Charles A. Harkin

**PRELIMINARY PLAN
 CORNFORTH INDUSTRIAL PARK**

Steven M. Clarke
 REGISTERED PROFESSIONAL ENGINEER
 No. 4477

COMMONWEALTH ENGINEERS & CONSULTANTS, INC.
 400 SMITH STREET
 PROVIDENCE, RHODE ISLAND 02908
 401-273-6600

REVISIONS				
No.	DATE	DRWN	CHKD	
1.	4/5/11	JAR	SMC	

CONSTRUCTION DETAIL
 for
**A.P.1 LOT 459
 QUAKER HIGHWAY**
 in
 NORTH SMITHFIELD, RHODE ISLAND

SCALE: AS NOTED	SHEET NO: 14 of 14
DRAWN BY: JP	DESIGN BY: JP
DATE: 12/28/10	CHECKED BY: SMC
	PROJECT NO.: 10025

OWNER/APPLICANT
 MR. JAMES CHACHARONE
 THE ASTER GROUP
 ONE WEST BOYLSTON STREET
 SUITE LLO5
 WORCESTER, MA 01605