Oliver Stedman Government Center
4808 Tower Hill Road; Suite 116
Wakefield, RI 02879
401-783-3370

PUBLIC NOTICE

File Number: 2015-10-069 Date: July 7, 2016

This office has under consideration the application of:

Ellsworth V. Stanley Trust
320 Washington Road
Barrington, RI 02806

for a State of Rhode Island Assent to construct and maintain: a six lot subdivision to be serviced by Town water and sewer. A new paved roadway will be constructed, and stormwater treatment systems will be installed.

Project Location:	Sowams Road
City/Town:	Barrington
Plat/Lot:	30 / 308
Waterway:	Palmer River

Plans of the proposed work may be seen at the CRMC office in Wakefield.

In accordance with the Administrative Procedures Act (Chapter 42-35 of the Rhode Island General Laws) you may request a hearing on this matter.

You are advised that if you have good reason to enter protests against the proposed work it is your privilege to do so. It is expected that objectors will review the application and plans thoroughly, visit site of proposed work if necessary to familiarize themselves with the conditions and cite what law or laws, if any, would in their opinion be violated by the work proposed.

If you desire to protest, you must attend the scheduled hearing and give sworn testimony. A notice of the time and place of such hearing will be furnished you as soon as possible after receipt of your request for hearing. If you desire to request a hearing, to receive consideration, it should be in writing (**with your correct mailing address, e-mail address and valid contact number**) and be received at this office on or before August 7, 2016

FOX RUN MAJOR SUBDIVISION

SOWAMS ROAD
BARRINGTON, RHODE ISLAND
JANUARY, 2015
REVISED: MAY, 2016

INDEX SHEET:

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SHEET 2	BOUNDARY & TOPOGRAPHIC SURVEY
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SHEET 4	200' RADIUS MAP
SHEET 5	SUBDIVISION PLAN
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SHEET 7	SITE DEMOLITION PLAN
SHEET 8	SITE LAYOUT PLAN
SHEET 9	GRADING & DRAINAGE PLAN
SHEET 10	INFILTRATION BASIN DETAIL PLAN
SHEET 11	INFILTRATION CHAMBER DETAIL PLAN
SHEET 12	UTILITY PLAN
SHEET 13	ROAD PROFILE PLAN 1
SHEET 14	ROAD PROFILE PLAN 2
SHEET 15	SOIL EROSION & SEDIMENTATION CONTROL PLAN
SHEET 16	DETAIL 1
SHEET 17	DETAIL 2
SHEET 18	DETAIL 3

LOCATION MAP

A.P. 30, LOT 308

APPLICANT:

ALFRED ALMEIDA
152 LINCOLN AVENUE
BARRINGTON, RI 02806

OWNER:

ELLSWORTH V. STANLEY TRUST
C/O: DAVID STANLEY
320 WASHINGTON ROAD
BARRINGTON, RI 02806

PROPOSED PRELIMINARY PLAN SUBMISSION

Waterman ENGINEERING COMPANY
Engineers & Surveyors - Est. 1984
46 Sutton Avenue
East Providence, RI
Phone: (401) - 438 - 5775
Fax: (401) - 438 - 5773
www.watermanengineering.net

COPYRIGHT ©

NOTES / REFERENCES

1. REFERENCE IS MADE TO THE FOLLOWING MAPS AND PLANS OF RECORD:

   A.) PLAN ENTITLED "FINAL PLAN MINOR SUBDIVISION STANLEY FARM PLAT LOT 303 ON ASHBURNHAM PLAT 30 SOWAMS ROAD BARRINGTON, RHODE ISLAND PREPARED BY STANLEY ENGINEERING, INC. SCALE: 1"=40' JULY, 2010 REVISED, MARCH 21, 2011."

   B.) PLAN ENTITLED "BOUNDARY/TOPO SUBDIVISION LOTS 302 & 310 ON ASHBURNHAM PLAT 30 SOWAMS ROAD BARRINGTON, RHODE ISLAND FOR THE STANLEY FAMILY TRUST PREPARED BY STANLEY ENGINEERING, INC SCALE: 1"=50' JUNE, 2001."

   C.) PLAN ENTITLED "LOCATION OF 100' COASTAL BUFFER LINE AND BARRINGTON LAND CONSERVATION TRUST EASEMENTS FOR RIVER OAK SUBDIVISION PLAT 30, LOT 300, 303, 305 SHOWS OAK ROAD BARRINGTON, R.I. DATE: 2006 SCALE: 1"=40' BY BARRETT SURVEYING & ENGINEERING, JOHN J. BARRETT, JR. P.L.S. Rh. 1595."

   D.) PLAN ENTITLED "PLAT RIVER OAK ROAD FOR SOWAMS DEVELOPMENT PLAT 30, LOT 303 BY F.H. SWARD & AC TOCATES DATE: FEB. '88 SCALE: 1"=40'."

   E.) PLAN ENTITLED "BOUNDARY PLAT BARRINGTON, R.I. BELONGING TO H.A.D. DEVELOPMENT COMPANY, INC. SURVEYED AND DRAWN BY WATERMAN SURVEYING, INC. SCALE: 1"=40' OCT. 1986."

2. REFERENCE IS MADE TO THE FOLLOWING TOWN OF BARRINGTON LAND EVIDENCE RECORDS REGARDING RECORDED TITLE TO THE PREMISES SURVEYED:

   A.) A.P. 30, LOT 300 – BLANKSBY V. STANLEY – VOLUME 499, PAGE 31

3. THESE PREMISES MAY BE SUBJECT TO THE FOLLOWING EASEMENTS, RIGHTS OF WAY OR AGREEMENTS OF RECORD:

   A.) 30' WIDER EASEMENT GRANTED TO THE TOWN OF BARRINGTON AS DESCRIBED IN VOLUME 124, PAGE 333

   B.) DRAINAGE EASEMENT GRANTED TO THOMAS G. & NATALIE A. TOUPIN AS DESCRIBED IN VOLUME 1001, PAGE 179

4. THESE PREMISES ARE SITUATED IN AN R-40 ZONE:

   RESIDENTIAL DIMENSIONALITY

MIN. LOT AREA	= 40,000 SQ.FT.	MIN. SIDE REAR YARD	= 50 FT.
MIN. FRONTAGE/SIDE YR	= 140 FT.	MIN. SIDE SIDE YARD	= 15 FT. OR 10% OF THE FRONTAGE (THE GREATER OF)
MIN. SIDE FRONT YARD	= 50 FT.	MAX. STRUCTURE HEIGHT	= 35 FT.

   MAX. BUILDING LOT COVERAGE = 20%

   NOTE - ZONING INFORMATION IS FROM CURRENT ZONING AND MAY NOT REFLECT THE CONDITIONS AT THE TIME OF CONSTRUCTION OR ANY VARIANCES GRANTED.

5. PORTIONS OF THESE PREMISES ARE SITUATED IN A ZONE "VE" (EL. 12), ZONE "AE" (EL. 12), ZONE "X" (SHADED – AREA OF 0.2% ANNUAL CHANCE FLOOD) AND ZONE "X" (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS DEPICTED ON THE NATIONAL FLOOD INSURANCE PROGRAM, FIRM FLOOD INSURANCE RATE MAP PROVIDED COUNTY, RHODE ISLAND (ALL JURISDICTIONS) PANEL 20 & 2 OF 10 TOWN OF BARRINGTON MAP NUMBER 440004 0020 D EFFECTIVE DATE: JULY 4, 2004. FEDERAL EMERGENCY MANAGEMENT AGENCY. A PORTION OF THE SUBJECT PROPERTY LIES WITHIN THE LAY OF HOCKETT'S TRIPE ACTION BARRIER AS DEPICTED ON THIS PLAN.

6. ANY UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING PLANS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, BUT HE DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE THE ONLY UTILITIES PRESENT. THE SURVEYOR DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. PLEASE CONTACT DIG SAFE TO MARK PRIOR TO CONSTRUCTION AT PHONE NO. 1-888-DIG-SAFE (888-344-7233) FOR ALL LOCAL UTILITY COMPANIES.

7. THE HORIZONTAL DATUM FOR THIS PROJECT IS THE R.I.S.P.C.S. 1983 (NAD 83) AND THE VERTICAL DATUM FOR THIS PROJECT IS NAVD 88. THE PROJECT DATUMS WERE DERIVED FROM DATA TRANSMITTED FROM SITE REFERENCE STATION LOCATED THE SITE RTK METHOD VIA LEICA SR9400 SENSOR & CARLSON SURVEYOR+ SENSOR CPS ANTENNA / PROCESSOR.

8. PLANIMETRICS & TOPOGRAPHY FROM AERIAL TOPOGRAPHIC MAPPING COMPILED NOVEMBER 16, 2011 BY EASTERN TOPOGRAPHICS - P.O. BOX 372, 455 CENTER STREET (RT. 6A) WOLFEBORO, NEW HAMPSHIRE 03894 FROM AERIAL PHOTOGRAPHS DECEMBER 15, 2010 (LEAF ON), ADJUSTED BY FIELD SURVEY JANUARY, 2012. GROUND CONTROL PERFORMED BY WATERMAN ENGINEERING CO. (NA BUILDING LINES SHOWN REPRESENT ROOF LINES AS SEEN ON THE AERIAL PHOTOGRAPH).

9. NO BUILDING, STRUCTURE OR SEPTIC MAY BE LOCATED WITHIN 100 FEET OF ANY WETLAND, WATER BODY OR STREAM PER SECTION 198-43 OF THE TOWN OF BARRINGTON ZONING ORDINANCE.

10. COASTAL WETLAND DELINEATION BY: NATURAL RESOURCE SERVICES, INC.
    P.O. BOX 911 – 140 THOMAS LANE
    HARRISVILLE, RI 02830

    **RIE ISLAND FLAGS FIELD LOCATED BY WATERMAN ENGINEERING COMPANY.

11. THERE ARE NO KNOWN EXISTING UNIQUE AREOLOGICAL HISTORICAL FEATURES WITHIN OR SUBSTANTIALLY ADJACENT TO THE SUBJECT PROPERTY.

** SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

RICHARD S. LIPETZ
No. 1987
PROFESSIONAL LAND SURVEYOR
RHODE ISLAND

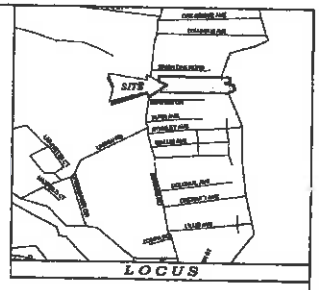
CERTIFICATION

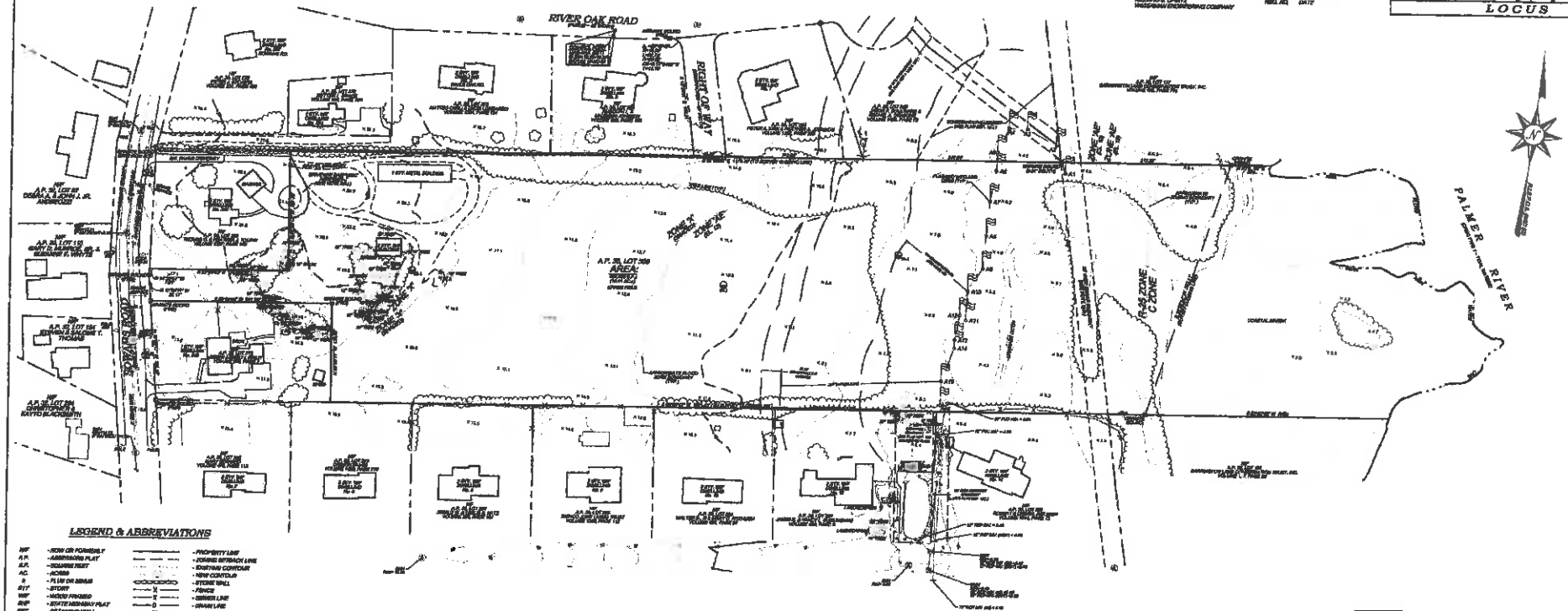
THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING CLASS STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS, EFFECTIVE APRIL 1, 1994:

BOUNDARY SURVEY - CLASS I
TOPOGRAPHIC SURVEY - CLASS II

RICHARD S. LIPETZ
WATERMAN ENGINEERING COMPANY

MAP REF. 6-7-16
FIELD REF. DATE





LEGEND & ABBREVIATIONS

MF	- ROW OR FORMERLY		- PROPERTY LINE
A.P.	- ASHBURNHAM PLAT		- ZONING SETBACK LINE
S.F.	- SQUARE FEET		- EXISTING CONTOUR
AC.	- ACRES		- NEW CONTOUR
⊕	- PLUG OR BRASS		- STONE WALL
STY	- STORY		- FENCE
WF	- WOOD FRAMED		- SEWER LINE
SUP	- SUBDIVISION PLAT		- DRAIN LINE
RET.	- RETAINING WALL		- WATER LINE
PED.	- PEDESTRIAN		- GAS LINE
(FND.)	- FOUND		- ELECTRIC LINE
RIRB	- RI HIGHWAY BOUND		- SANITARY SEWER MANHOLE
PK NAIL	- MASONRY NAIL		- CATCH BASIN
FE	- FLARED END		- STORM DRAIN MANHOLE
RCP	- REINFORCED CONCRETE PIPE		- WATER GATE
CLF	- CHAIN LINK FENCE		- GAS VALVE
INV.	- INVERT		- ELECTRIC MANHOLE
x 10.00	- EXISTING SPOT GRADE		- GRANITE BOUND
	- NEW SPOT GRADE		- DRILL HOLE
			- IRON PIPE

GRAPHIC SCALE

50 0 30 60 120 180

(In feet)

1 INCH EQUALS 50 FEET

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THESE DRAWINGS ARE THE PROPERTY OF THE WATERMAN ENGINEERING CO. AND MAY NOT BE USED FOR THE PURPOSE FOR THE PROJECT AS THE SITE ASSIGNED BY AN ORIGINAL PLAN OR ANY PORTION THEREOF, UNLESS NON-EXCLUSIVE RIGHTS WITHIN THE DIMENSION ONE OF THE DRAWINGS

NO.	DATE	REVISION	CHECKED BY
5	6/16/16	UPDATED ABUTTERS	RSL
4	6/6/16	UPDATED ABUTTERS	RSL
3	3/19/12	REVISED PER DRAC COMMENTS	RSL

SOUNDARY & TOPOGRAPHIC SURVEY PLAN
A.P. 30, LOT 300
SOWAMS ROAD
BARRINGTON, RHODE ISLAND

ALFRED ALMEIDA
153 LINCOLN AVENUE
BARRINGTON, RHODE ISLAND 02806

PROJECT NO. 11-181
SCALE: 1" = 50'
DATE: 01/13/12
DRAWN BY: RJT
CHECKED BY: RSL
PROJECT: 11-181.001.20300
SHEET 1 OF 1 SHEETS
DRAWING: SU-1

Waterman ENGINEERING COMPANY
Engineers & Surveyors - Est. 1906
[illegible] Lincoln Avenue
[illegible]
Phone: [illegible]
Fax: [illegible]
www.[illegible].com

NOTES / REFERENCES

1. REFERENCE IS MADE TO THE FOLLOWING MAPS AND PLANS OF RECORD:

A.) PLAN ENTITLED "FINAL PLAN SHOWING SUBDIVISION STANLEY FARM PLAT LOT 20, ON ASSESSORS PLAT 34 SOWAMS ROAD BARRINGTON, RHODE ISLAND PREPARED BY STANLEY ENGINEERING, INC. DATED: 1" = 60' JULY, 2010 REVISED: MARCH 25, 2011."

B.) PLAN ENTITLED "MINOR TRIVITE SUBDIVISION LOTS 3 & 3 ON ASSESSORS PLAT 30 SOWAMS ROAD BARRINGTON, RHODE ISLAND FOR THE STANLEY FAMILY TRUST PREPARED BY STANLEY ENGINEERING, INC. SCALE: 1" = 60' JUNE, 2004."

C.) PLAN ENTITLED "LOCATION OF 100' COASTAL BUFFER LINE AND AERIAL TOPOGRAPHY LAND CONFIGURATION TRUST EASEMENTS FOR SHELTON ESTATES SUBDIVISION PLAT 30, LOT 200, 202, 203 SHELTON OAK ROAD BARRINGTON, R.I. DATE: 1993 SCALE: 1" = 40' BY SHELTON SURVEYING & CONSULTING, JOHN J. SHELTON, JR. P.L.S. No. 1993."

D.) PLAN ENTITLED "PLAT SHELTON ROAD FOR: SHELTON DEVELOPMENT PLAT 30, LOT 137 BY F.H. ZIPPO & ASSOCIATES DATED: FEB. 20 SCALE: 1" = 40'."

E.) PLAN ENTITLED "SEAVIEW PLAT BARRINGTON, R.I. BELONGING TO H & D DEVELOPMENT COMPANY, INC. SURVEYED AND DRAWN BY WARRENER SURVEYING, INC. SCALE: 1" = 40' OCT. 1986."

2. REFERENCE IS MADE TO THE FOLLOWING TOWN OF BARRINGTON LAND RECORDS REFERENCE RECORDED TITLE TO THE PREMISES SURVEYED:

A.) M.P. 30, LOT 200 – ELLEROKAN V. SCANLEY – VOLUME 488, PAGE 91

3. THESE PREMISES ARE THE SUBJECT TO THE FOLLOWING EASEMENTS, RIGHTS OF WAY OR AGREEMENTS OF RECORD:

A.) 20' DRAIN EASEMENT GRANTED TO THE TOWN OF BARRINGTON AS DESCRIBED IN VOLUME 135, PAGE 339

B.) TEMPORARY EASEMENT GRANTED TO THE HAR C. & HEATHER J. TOUPIN AS DESCRIBED IN VOLUME 1287, PAGE 119

4. THESE PREMISES ARE SITUATED IN AN R-20 ZONE.

DIMENSIONAL REQUIREMENTS

MIN. LOT AREA	= 80,000 SQ.FT.	MIN. SIDE YARD	= 30 FT.
MIN. FRONTAGE/WIDTH	= 200 FT.	MIN. REAR YARD	= 50 FT. OR 10% OF THE FRONTAGE (THE GREATER OF)
MIN. SIDE FRONT YARD	= 30 FT.	MAX. STRUCTURE HEIGHT	= 35 FT.

MAX. BUILDING LOT COVERAGE = 20%

NOTE - ZONING INFORMATION IS FROM CURRENT ZONING AND MAY NOT REFLECT THE CONDITIONS AT THE TIME OF CONSTRUCTION OR ANY VARIANCES GRANTED.

5. PORTIONS OF THESE PREMISES ARE SITUATED IN A ZONE "VE" (EL. 13), ZONE "AE" (EL. 12), ZONE "X" (SHADED - AREA OF 0.2% ANNUAL CHANCE FLOOD) AND ZONE "X" (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS DESIGNATED ON THE "FIA" FLOOD, FLOOD INSURANCE PROGRAM, FIRM FLOOD INSURANCE RATE MAP BRISTOL COUNTY, RHODE ISLAND (ALL JURISDICTIONS) PANEL (s) 3 "FLA" IN TOWN OF BARRINGTON (MAP NUMBER 44007C0261 H WITH COMMON A ZONE (COVER) REVISED: JULY 1, 2014, FEDERAL EMERGENCY MANAGEMENT AGENCY".
A PORTION OF THE SUBJECT PROPERTY LIES WITHIN THE LIMIT OF MODERATE WAVE ACTION (LIMWA) AS DELINEATED ON THE FIRM.

6. ANY UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING PLANS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN OPERATION OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION DESIGNATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. PLEASE CONTACT DIG SAFE (3 WORKING DAYS) PRIOR TO CONSTRUCTION AT PHONE NO. 1-888-344-7233 (UNDER ALL UTILITY COMPANIES).

7. THE HORIZONTAL DATUM FOR THIS PROJECT IS THE R.I.S.P.C.S. (NAD 83) AND THE VERTICAL DATUM FOR THIS PROJECT IS (NAVD 88). THE PROJECT CONTROL WERE SETTING BASED FROM DATA TRANSMITTED FROM SITE REFERENCE SYSTEMS USING THE NAD 83 NETWORK VIA LEICA SPIDER SERVER & CARLSON SURVEYOR: BENCH GPS (ANDRAM / BECKERS).

8. PLANIMETRICS & TOPOGRAPHY FROM AERIAL TOPOGRAPHIC MAPPING COMPILED NOVEMBER 25, 2014 BY BARTON TOPOGRAPHICS - P.O. BOX 375, 400 CENTER STREET (RT. 5A) HOLYOKE, NEW HAMPSHIRE 03824 FROM AERIAL PHOTOGRAPHY EXPOSED APRIL 12, 2014 SUPPLEMENTED BY FIELD SURVEY JANUARY, 2015. GROUND CONTROL PERFORMED BY WATERMAN ENGINEERING CO.
ALL BUILDING LINES SHOWN REPRESENT ROOF LINES AS SEEN IN THE AERIAL PHOTOGRAPHY.

9. NO BUILDING, STRUCTURE OR SIGN MAY BE LOCATED WITHIN 100 FEET OF ANY WETLAND, WATER BODY OR STREAM PER SECTION 190-33 OF THE TOWN OF BARRINGTON ZONING ORDINANCE.

10. COASTAL WETLAND DELINEATION BY: NATURAL RESOURCE SERVICES, INC.
P.O. BOX 2211 – 163 TARKNAM LANE
HARRISVILLE, RI 02830

**WETLAND FLAGS FIELD LOCATED BY WATERMAN ENGINEERING COMPANY.

11. THERE ARE NO KNOWN EXISTING UNIQUE AREAS OR HISTORICAL FEATURES WITHIN OR IMMEDIATELY ADJACENT TO THE SUBJECT PROPERTY.

** SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

RICHARD B. LEPRITZ
No. 1927
PROFESSIONAL LAND SURVEYOR

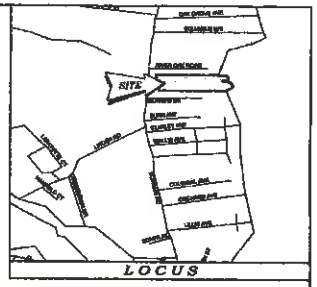
CERTIFICATION

THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING CURB STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS, EFFECTIVE APRIL 1, 1994.

SUMMARY SURVEY - CLASS I
TOPOGRAPHIC SURVEY - CLASS II

RICHARD B. LEPRITZ
WATERMAN ENGINEERING COMPANY

SEAL 6-7-16
REG. NO. DATE



LEGEND & ABBREVIATIONS

NP	- NOW OR FORMERLY		- PROPERTY LINE
A.P.	- ASSESSORS PLAT		- ZONING SETBACK LINE
S.F.	- SQUARE FEET		- EXISTING CONTOUR
AC.	- ACRES		- NEW CONTOUR
S	- PILE OR MOUND		- STONE WALL
STY	- STORY		- FENCE
WP	- WOOD PANEL		- SEWER LINE
SHP	- STATE HIGHWAY PLAT		- DRAIN LINE
RET.	- RETAINING WALL		- WATER LINE
PED.	- PEDESTRIAN		- GAS LINE
(FND.)	- FOUND		- ELECTRIC LINE
RHS	- RI HIGHWAY BOUND		- SANITARY SEWER MANHOLE
PH MAS.	- MASONRY WALL		- CATCH BASIN
FE.	- FLARED END		- STORM DRAIN MANHOLE
RCP	- REINFORCED CONCRETE PIPE		- WATER GATE
CLF	- CHAIN LINK FENCE		- GAS VALVE
INV.	- INVERT		- ELECTRIC BARRICLS
x 15.45	- EXISTING SPOT GRADE		- GRANITE BOUND
x	- NEW SPOT GRADE		- DRILL HOLE
			- IRON PIPE

GRAPHIC SCALE

60 0 30 60 120 180

(in feet)

1 INCH EQUALS 60 FEET

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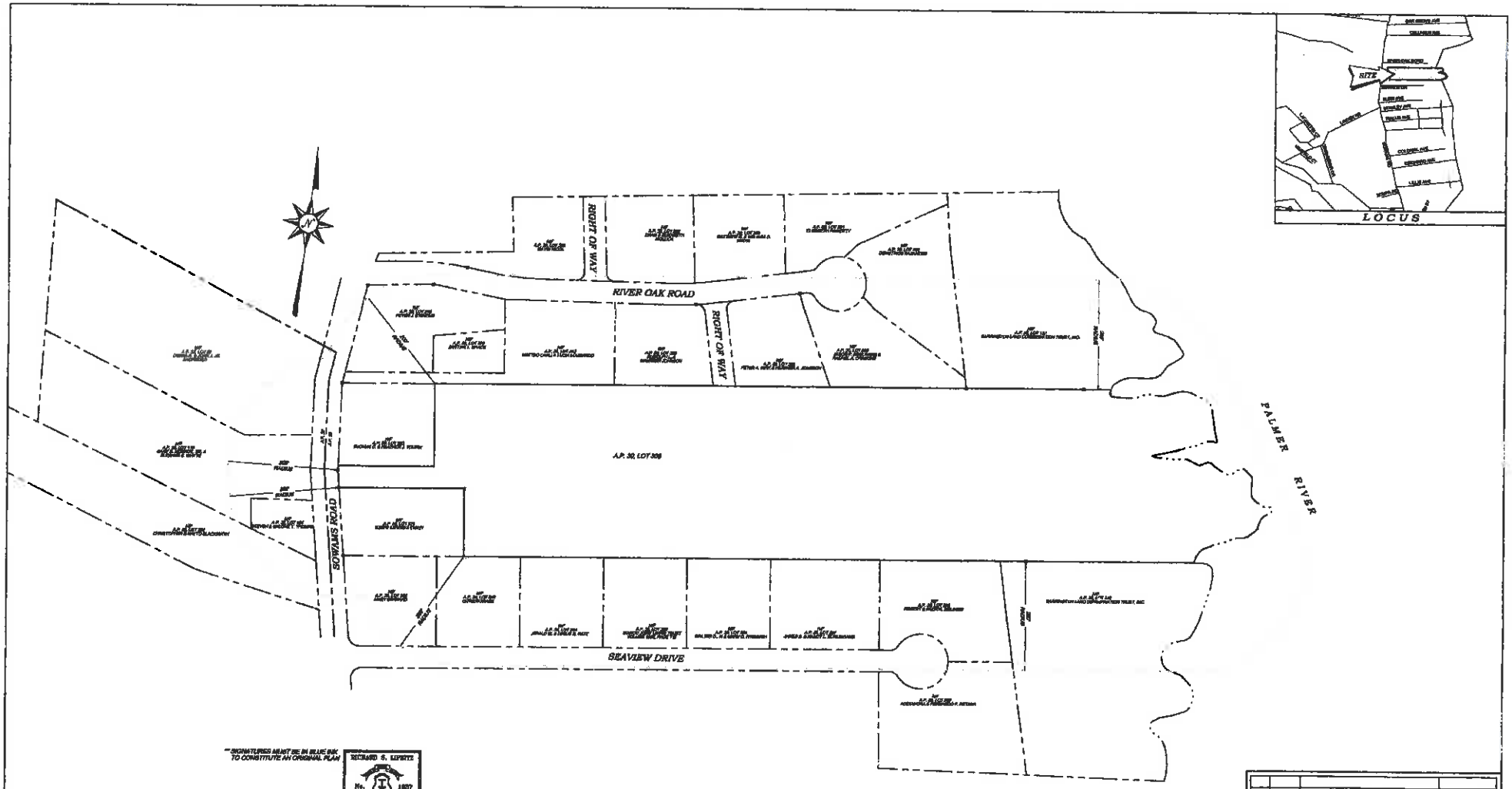
NO.	DATE	REVISION	CHECKED BY
4	6/7/2016	UPDATED ABUTTERS	RBL
3	10/20/15	UPDATED ABUTTERS	RBL
2	6/18/2015	REVISED PER CRMC COMMENTS	RBL

SURVEY PLAN WITH AERIAL VIEW
A.P. 30, LOT 203
SOWAMS ROAD
BARRINGTON, RHODE ISLAND

ALFRED ALMEIDA
152 LINCOLN AVENUE
BARRINGTON, RHODE ISLAND 02806

FIELD BOOK: 14-320
SCALE: 1" = 60'
DATE: 01/20/15
DRAWN BY: SLP
CHECKED BY: RBL
FILE NAME: 14-320_SUI_REV3
SHEET NO. OF NO. SHEETS: SUI-2

Waterman ENGINEERING COMPANY
Surveyors & Engineers
40 Nelson Avenue
East Providence, RI
Tel. (401) 434-5774
Fax (401) 435-
www.waterman-inc.com



** SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

RICHARD S. LIPETZ
No. 1807
PROFESSIONAL LAND SURVEYOR

CERTIFICATION

THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING CLASS STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS, EFFECTIVE APRIL 1, 2004:

BOUNDARY SURVEY - CLASS IV
TOPOGRAPHIC SURVEY - CLASS VIII

RICHARD S. LIPETZ — REG. NO. 1807 — DATE 6-7-16
WATERMAN ENGINEERING COMPANY

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.

GRAPHIC SCALE
40 0 40 80 120 240
(in feet)
1 INCH EQUALS 80 FEET +/-

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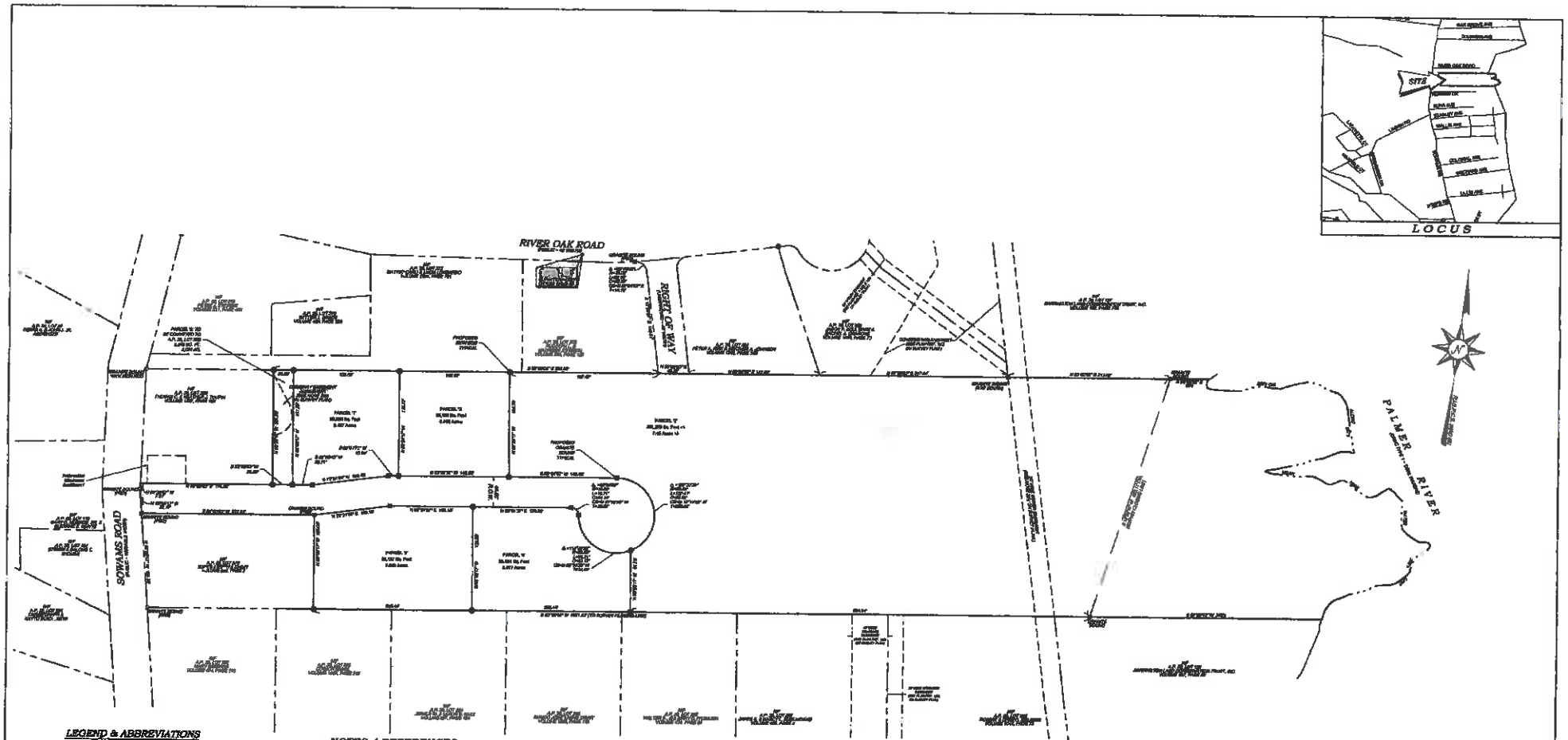
NO.	DATE	REVISION	CHECKED BY
1	3/30/2016	UPDATED ADDITIONS	RSL

200' RADIUS PLAN
A.P. 30, LOT 308
SOWAMS ROAD
BARRINGTON, RHODE ISLAND

ALFRED ALMEIDA
152 LINCOLN AVENUE
BARRINGTON, RHODE ISLAND 02806

PROJECT NO. 14-132
SCALE 1" = 80' +/-
DATE 5/13/16
DRAWN BY SJR/DMB
CHECKED BY RSL
SHEET 1 OF 1
DRAWING R-1

Waterman ENGINEERING COMPANY
Civil Engineers & Surveyors



LEGEND & ABBREVIATIONS

NF	- NOW OR FORMERLY		- PROPERTY LINE
A.P.	- ASSESSORS PLAT		- ZONING SETBACK LINE
S.F.	- SQUARE FEET		- EXISTING CONTOUR
AC.	- ACRES		- NEW CONTOUR
ø	- PLUS OR MINUS		- STONE WALL
STY	- STORY	X	- FENCE
WF	- WOOD FRAMED	S	- SEWER LINE
SHP	- STATE HIGHWAY PLAT	D	- DRAIN LINE
REC.	- RECORDED WALL	W	- WATER LINE
PED.	- PEDESTRIAN	G	- GAS LINE
(FND.)	- FOUND	E	- ELECTRIC LINE
IRSB	- IRON HIGHWAY BOUND		- SANITARY SEWER MANHOLE
PK NAIL	- MASONRY NAIL		- CATCH BASIN
PE	- PLASTIC PIPE		- STORM DRAIN MANHOLE
RCP	- REINFORCED CONCRETE PIPE		- WATER GATE
CLF	- CHAIN LINK FENCE		- GAS VALVE
HYD.	- HYDRANT		- ELECTRIC MANHOLE
x 19.99	- ESSENTIAL SPOT GRADE		- GRAVEL ROAD
	- NEW SPOT GRADE		- DRILL HOLE
	- CONCRETE REINFORCED FENCE		- IRON PIPE
	- FILTER BOXES		

GRAPHIC SCALE

60 0 30 60 120 180

(In feet)

1 INCH EQUALS 60 FEET

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NOTES / REFERENCES

1. REFER NOTE 4 NOTE TO THE FOLLOWING MAPS AND PLANS OF RECORD:

A.) PLAN ENTITLED "FINAL PLAN MAJOR SUBDIVISION STANLEY PARK PLAT LOT 305 ON ASSESSORS PLAT 30 SOWAMS ROAD BARRINGTON, RHODE ISLAND PREPARED BY KHAN BY ENGINEERING, INC. SCALE: 1" = 60' JULY, 2010 REVISED MARCH 21, 2011."

B.) PLAN ENTITLED "SUBDIVISION OF A SUBDIVISION LOTS 305 & 306 ON ASSESSOR'S PLAT 30 SOWAMS ROAD BARRINGTON, RHODE ISLAND FOR: SUE STANLEY TRUST" DRAWN PREPARED BY STANLEY ENGINEERING, INC. SCALE: 1" = 60' JUNE, 2011."

C.) PLAN ENTITLED "LOCATION OF THE COASTAL SURVEY LINE AND BARRINGTON LAND DIVISION FOR TRUST SUBMITTED FOR RIVER OAK SUBDIVISION PLAT 30, LOT 305, 306 SOWAMS ROAD BARRINGTON, R.I. DATE: 1989 SCALE: 1" = 40' BY BANNER SURVEYING & ENGINEERING, JOHN J. BANNER, JR. P.L.S. No. 1886."

D.) PLAN ENTITLED "PLAT SHOWS OAK ROAD FOR: SOWAMS REVIEW DEVELOPMENT PLAT 30, LOT 304 BY P.H. DANIELS & ASSOCIATES DATED FEB. 10 SCALE: 1" = 60'."

E.) PLAN ENTITLED "SITE PLAN NEW PLAT BARRINGTON, R.I. WALGREENS TO W.S.R. DEVELOPMENT COMPANY, INC. SURVEYED AND DRAWN BY BANNER SURVEYING, INC. SCALE: 1" = 40' OCT. 1995."

** SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

RICHARD S. LIPSITZ
No. 1637
CERTIFIED
LAND SURVEYOR

CERTIFICATION

THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING CLASS STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS, EFFECTIVE APRIL 1, 1994:

BOUNDARY SURVEY - CLASS 1
TOPOGRAPHIC SURVEY - CLASS IIIA

RICHARD S. LIPSITZ
WATERMAN ENGINEERING COMPANY

DATE 6-7-16
REG. NO. 1637

NO.	DATE	REVISION	CHECKED BY
2	6/08/16	MODIFIED PER CRMC SCREENING COMMENTS	RSL
1	3/08/16	DRAWN INCORPORATING PER CLIENT'S REQUEST	RSL

SUBDIVISION PLAN
A.P. 30, LOT 305
SOWAMS ROAD
BARRINGTON, RHODE ISLAND

ALFRED ALMEIDA
159 LINCOLN AVENUE
BARRINGTON, RHODE ISLAND 02806

DRAWN BY: RSL/JAS
SCALE: 1" = 40'
DATE: 01/20/15
REVISED: 01/07/16
PROJECT NO.: 22-1001
SHEET: 1 OF 1
DRAWING NO.: C-1.0

Waterman
ENGINEERING COMPANY
Engineers & Surveyors

GENERAL NOTES

1. SEE BOUNDARY & TOPOGRAPHIC SURVEY PLAN FOR SURVEY NOTES & REFERENCES.
2. ALL EXISTING UTILITIES HAVE BEEN PLOTTED BASED UPON BOUNDARY & TOPOGRAPHIC SURVEY PLANS PREPARED BY NETTMANN ENGINEERING. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING DRAINAGE & SYSTEMS, INCLUDING INVERTS AND OVER-SIZE, BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH "811 DIGS PROGRAM LAW" ENACTED BY THE R.I. LEGISLATURE AND BY CONTACTING THE RHODE ISLAND UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY CITY, STATE OR FEDERAL AGENCY THAT MAY APPLY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTORS RESPONSIBILITY.
3. ANY DEVIATIONS TO SCHEME THAT AND BUILT ARE A LA O.S. STANDARD SPECIFICATIONS. FOR ALL EXCAVATION, PLACEMENT OF FILL, PIPE INSTALLATION, SATURATION PAVEMENT, CUTTING WITH CATCH BASIN/MANHOLES, CONNECTS AND SAW CUTTING. THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION MANUAL ON MUNICIPAL ROAD AND BRIDGE CONSTRUCTION, 1994 EDITION, WITH LATEST REVISIONS UNLESS OTHERWISE SHOWN ON PLANS. THE "METHOD OF MEASUREMENT" AND "BASIS OF PAYMENT" ARE NOT APPLICABLE. THESE SPECIFICATIONS CAN BE OBTAINED ONLINE AT:

HTTP://WWW.DOT.STATE.RI.US/BUSINESS/BIDS/STANDARDS/INDEX.ASP

4. FOR ALL EXCAVATION AND PLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 205.
5. RHODE ISLAND STANDARDS REFERENCED ARE ACCORDING TO THE STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS "RHODE ISLAND STANDARD DETAILS" DATED JUNE 01, 2006, WITH ALL REVISIONS AS PREPARED BY THE DEPARTMENT OF TRANSPORTATION.
6. THE CONTRACTOR MUST VERIFY PRIOR TO CONSTRUCTION THAT ALL REQUIRED AUTHORIZATION TO PERFORM WORK HAS BEEN OBTAINED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION OPERATIONS INCLUDING ALL ACTIONS OR OMISSIONS OF ANY SUBCONTRACTORS, AGENTS OR EMPLOYEES. THE CONTRACTOR MUST ENSURE THAT THE CONDITIONS OF ALL PERMITS, SPECIFICATIONS AND FEDERAL, STATE, AND LOCAL REGULATIONS ARE STRICTLY ENFORCED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ASPECTS OF ON-SITE SAFETY, INCLUDING ANY DAMAGE TO EXISTING STRUCTURES.
7. WORK SHOWN ON THIS PLANS FOR WHICH THERE ARE NO PARTICULAR DETAILS OR SPECIFICATIONS DOES NOT RELIEVE THE CONTRACTOR FROM PURCHASING AND INSTALLING THE WORK. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE CONTRACT DOCUMENTS AND PLANS AND INSPECT THE SITE, AND THE SAME PRICE SHALL INCLUDE ALL SERVICES AND AN INSOLUE NECESSARY TO COMPLETE THE PROJECT. ANY CHANGES TO THE PROJECT OR THE INSTALLATION OF ACTION FOR WHICH NO PRIOR APPROVAL OR INSPECTION WAS PROVIDED MUST BE RESCINDED BY AND MUST BE ACCEPTABLE TO THE ENGINEER.
8. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY WORK.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT PRIOR TO THE INITIATION OF WORK. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS, RELATIVE TO THE SPECIFICATION OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
10. ALL DISTURBED AREAS SHALL BE REPLACED IN KIND UNLESS OTHERWISE SHOWN.
11. THERE ARE NO KNOWN EXISTING UNIQUE AND/OR HISTORICAL FEATURES WITHIN OR IMMEDIATELY ADJACENT TO THE SUBJECT PROPERTY.

LAYOUT NOTES

THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE TO SET AND VERIFY ALL LINES AND GRADES. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEM FOUND WHICH DOES NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. NO WORK SHALL PROCEED UNTIL AUTHORIZED BY THE ENGINEER.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING PROVIDING PROTECTION, ALL TEMPORARY CONSTRUCTION SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST VERSIONS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
2. TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.
3. THE ARRANGEMENTS OF CONSTRUCTION VEHICLES WILL NOT BE PARKED IN THE ROADWAY RIGHT OF WAY.
4. ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL DEVICES, SIGNS, CHANNELIZING DEVICES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 1988 EDITION, INCLUDING REVISIONS, SEPTEMBER 3, 1993, AND SUBSEQUENT ADDENDA.
5. SIGN MOUNTING SHALL BE IN ACCORDANCE WITH THE STATE O.H.T. SPECIFICATIONS FOR TEMPORARY SIGNS/INSTALLATION SIGNS.

UTILITY NOTES

1. PRIOR TO ANY UTILITY CONSTRUCTION, THE CONTRACTOR MUST PERFORM ADDITIONAL TEST TIP
   A. CONFIRM THE EXISTING DEPTHS OF UTILITIES AT ALL PROPOSED CONNECTION POINTS AND POTENTIAL CROSSBOARD (CONFLICT) POINTS.
   B. THE CONTRACTOR SHALL USE TEST HOLES TO VERIFY THE ELEVATION AND PIPE MATERIAL OF THE EXISTING WATER, GAS, AND SANITARY REFRESH AT THE PROPOSED TIE-IN LOCATION.
2. ANY MODIFICATIONS TO THE PROPOSED UTILITIES TO AVOID CONFLICTS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. NO EXTRA PAYMENT TO THE CONTRACTOR DUE TO RELOCATIONS WILL BE AUTHORIZED.
3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO TIE-IN.
4. THE UTILITY PLAN DOES NOT REPRESENT THE SITE ELECTRICAL/TELEPHONE/COMMUNICATION SYSTEM DESIGN.
5. THE CONTRACTOR MUST LOCATE THE EXISTING WATER MAIN TO OBTAIN THE PROPER OUTSIDE DIAMETER TO BEST ANY BLOWN.
6. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL UTILITY PIPES (WEIGHTED WATER, SEWER AND GAS) ARE REPAIRED BY THE ARCHITECT PRIOR TO ORDERING PIPE OR ANY OTHER MATERIAL.
7. ALL PROPOSED PIPES AND CONDUITS SHALL BE INSTALLED TO MEET POTLOADING CAPACITY. ALL MATERIAL AND TRENCHING METHODS SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS/CATALOG CUTS FOR PROPOSED PIPE AND CONDUIT TO ENGINEER FOR APPROVAL.

SOIL EVALUATION SUMMARY - DECEMBER 12, 2014

BELOW IS A SUMMARY OF THE SOIL EVALUATION RESULTS WITNESSED BY KEVIN FATZER (D-4888)

TEST PIT NUMBER	DEPTH TO DIV SERVICE	SEWER	DEPTH TO LIMITING LAYER	C HORIZON TEXTURE	SOIL CLASS
1	10"	10"	108" NO LEDGE	SAND	IOS CONTACTOR/TRENCH
2	48"	24"	108" NO LEDGE	SAND AND GRAVELLY SAND	IOS CONTACTOR/TRENCH
3	—	20"	108" NO LEDGE	GRAVELLY LOAMY FINE SAND	IOS CONTACTOR/TRENCH

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FLOOD ZONE NOTES

PORTIONS OF THESE PREMISES ARE SITUATED IN A ZONE "AE" (EL. 13), ZONE "VE" (EL. 15), ZONE "X" (SHADED - AREAS OF 0.2% ANNUAL CHANCE FLOOD), AND ZONE "X" (AREAS DETERMINED TO BE OUTSIDE 0.2% ANNUAL CHANCE FLOODPLAIN) AS DEFINED BY THE NATIONAL FLOOD INSURANCE PROGRAM, FIRM FLOOD INSURANCE RATE MAP PROVIDENCE COUNTY, RHODE ISLAND ALL, STANDARD FLOOD PLAIN 2 & 7 OF 20 ZONES OF EMERGENCY MAP ALTERNATE DEPENDENT A PORTION OF THE SUBJECT PROPERTY LIES WITHIN THE LAND OF MODERATE WAVE ACTION (LAWA) AS DELINEATED ON THE FIRM.

ENVIRONMENTAL NOTES

1. THIS SITE IS NOT DESIGNATED AS A NATURAL RESOURCE HEPPARIE SITE (FOR RIGHT ENVIRONMENTAL RESOURCE GIS).
2. THIS SITE IS NOT SITUATED AS A LUHPS SITE.
3. THE PALMER RIVER (REFRESHED-AVA) HAS BEEN IDENTIFIED AS AN IMPAIRED RIVER.

STORMWATER MANAGEMENT SYSTEM DESIGN INFILTRATION RATES

THE DESIGN INFILTRATION RATES USED FOR THE PROPOSED STORMWATER MANAGEMENT SYSTEM HAS BEEN ESTIMATED BY USING THE SOIL EVALUATOR SOIL SOLUTIONS FOR THE C HORIZON SHOWN IN REFERENCE TO TABLE 5.3 IN THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, DECEMBER 2010. THE DESIGN INFILTRATION RATE IS 0.27 IN/HR.

CONSTRUCTION NOTES

1. THE CONTRACTOR IS REQUIRED TO OBTAIN AND REVIEW ALL ENGINEERING AND PERMIT DOCUMENTS COMPLETED FOR FINAL DESIGN.
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO INSTALLATION OF UTILITIES ON SITE. THE COORDINATION IS NECESSARY FOR THE ENGINEER TO SCHEDULE SITE INSPECTIONS. INSTALLATIONS PERFORMED WITHOUT INSPECTIONS BY THE ENGINEER MAY INVALIDATE COMPLETE RESCINDING AND REINSTALLATION AT THE CONTRACTOR'S SOLE EXPENSE.
3. THE CONTRACTOR IS REQUIRED TO MAINTAIN DETAILED AS-BUILT INFORMATION FOR ALL UTILITY INSTALLATIONS. AS-BUILT INFORMATION MUST INCLUDE INVERTS, LIST, PIPE DEPTH AND WITH TIE LOCATIONS IN REFERENCE FROM NEW PIPE TO BUILDING CORNERS. ALL PIPE REPORTING LOCATIONS SHALL BE DOCUMENTED. ANY PIPE THAT WILL NOT BE SHOWN UNTIL AS-BUILT DATA IS PROVIDED.

BARRINGTON PLANNING BOARD WAIVER REQUEST

1. A WAIVER IS REQUESTED FOR THE INSTALLATION OF STREET SIDEWALKS ALONG PROPOSED ROAD.

SOIL NOTES

SOILS INTERPRETED ON SITE ACCORDING TO THE USDA NATURAL RESOURCES CONSERVATION SERVICE ARE AS FOLLOWS:

- PeB - PESKINOMSKY FINE, 0 TO 8 PERCENT SLOPES, VERY FREQUENTLY FLOODED
- MoaC - MONTAUK SANDY LOAM, 3 TO 8 PERCENT SLOPES
- Sb - SUDBURY SANDY LOAM
- WoB - WOODBRIDGE SANDY LOAM, 0 TO 3 PERCENT

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT WAIVER REQUEST

1. A WAIVER IS REQUESTED FOR CHANNEL PROTECTION (CP) BECAUSE SHED A HAS IMPERVIOUS COVER LESS THAN 1 ACRE AND THE POST-DEVELOPMENT PEAK FROM THE SHED WITHOUT ATTENUATION IS LESS THAN 2.0 CFS FOR THE 1-YEAR, 24-HOUR TYPE III DESIGN STORM EVENT.
2. A WAIVER IS REQUESTED FOR CHANNEL PROTECTION (CP) BECAUSE SHED B WILL DIRECT DISCHARGE TO THE PALMER RIVER WHICH IS A TIDAL WATER.
3. A WAIVER IS REQUESTED FOR OVERBANK FLOOD PROTECTION (OP) BECAUSE SHED B WILL DIRECT DISCHARGE TO THE PALMER RIVER WHICH IS A TIDAL WATER.

CULTEC SYSTEM STORMWATER SYSTEM MAINTENANCE SCHEDULE

I. OPERATION

CULTEC STORMWATER MANAGEMENT SYSTEMS SHALL BE OPERATED TO RECEIVE ONLY STORMWATER RUNOFF IN ACCORDANCE WITH APPLICABLE LOCAL REGULATIONS. CULTEC STORMWATER MANAGEMENT CHAMBERS OPERATE AT HIGH PERFORMANCE WHEN INSTALLED IN SERIES WITH PRETREATMENT. PRETREATMENT OF RUNOFF REDUCES IN SUSPENDED TO THAT AMOUNT OF SOLIDS ONCE THAT WILL REMAIN SUSPENDED INTO THE PAVING THE USE OF PRETREATMENT IS ADDRESSED AS LONG AS THE STRUCTURE IS MAINTAINED AND THE SITE REMAINS STABILIZED THROUGH INCREASING SURFACES SUCH AS PARKING LOTS, WAREHOUSE, AND PERVIOUS AREAS ARE PROPERLY MAINTAINED. IF THERE IS TO BE AN UNSTABLE CONDITION, SUCH AS IMPROVEMENTS TO BUILDINGS OR PARKING AREAS, ALL PROPER SILT CONTROL MEASURES SHALL BE IMPLEMENTED ACCORDING TO LOCAL REGULATIONS.

II. INSPECTION AND MAINTENANCE OPTIONS

A. THE CULTEC SYSTEM MAY BE EQUIPPED WITH AN INSPECTION PORT LOCATED ON THE INLET ROW. THE INSPECTION PORT IS A CIRCULAR CAST IRON PLACED IN A RECTANGULAR CONCRETE COLLAR. WHEN THE LID IS REMOVED, A 4-INCH (100 MM) PIPE WITH A SCREW-IN PLUG WILL BE EXPOSED. REMOVE THE PLUG. THIS WILL PROVIDE ACCESS TO THE CULTEC STORMWATER ROW BELOW. FROM THE SURFACE, THROUGH THE ACCESS, THE SEDIMENT MAY BE MEASURED AT THIS LOCATION. A STICK MAY BE USED TO MEASURE THE DEPTH OF SEDIMENT IF ANY IS THERE. IF THE DEPTH OF SEDIMENT IS IN EXCESS OF 3 INCHES (76 MM), THEN THE ROW WOULD BE CLEANED (WITH HIGH PRESSURE WATER THROUGH A CULTEC CLEANING NOZZLE). THIS WOULD BE CARRIED OUT (THROUGH AN UPSTREAM MANHOLE OR THROUGH THE CULTEC STORMWATER UNIT (OR OTHER PRE-TREATMENT DEVICE). EACH INSPECTION OF THE ROW CHAMBER DEPENDING THROUGH THE ACCESS PORT TO DETERMINE IF ANY SEDIMENT HAS ACCUMULATED IN THE INLET ROW.

B. IF THE CULTEC BED IS NOT EQUIPPED WITH AN INSPECTION PORT, THEN ACCESS TO THE INLET ROW WILL BE THROUGH AN UPSTREAM MANHOLE OR THE CULTEC STORMWATER.

1. MANHOLE ACCESS

THIS INSPECTION SHOULD ONLY BE CARRIED OUT BY PERSONS TRAINED IN CONFINED SPACE ENTRY AND SIMILAR INSPECTION SERVICES. AFTER THE MANHOLE COVER HAS BEEN REMOVED A GAS DETECTOR SHALL BE LOWERED INTO THE MANHOLE TO ENSURE THAT THERE ARE NOT HIGH CONCENTRATIONS OF TOXIC OR EXPLOSIVE GASES. THE INSPECTION SHOULD BE LOWERED INTO THE MANHOLE WITH THE PROPER SAFETY EQUIPMENT AS PER OSHA REQUIREMENTS. THE INSPECTION MAY BE ABLE TO CONTINUE SEDIMENT FROM THIS LOCATION. IF THIS IS NOT POSSIBLE, THE INSPECTOR WILL NEED TO EMPLOY A CULTEC ROBOT TO PERFORM MINIMUM OF THE SEDIMENT.

2. STORMFILTER ACCESS

REMOVE THE MANHOLE COVER TO GAIN ACCESS TO THE UNIT. TYPICALLY A 30-INCH (750 MM) PIPE IS USED AS A RISER FROM THE STORMFILTER TO THE SURFACE. AS IN THE CASE WITH MANHOLE ACCESS, THIS ACCESS POINT REQUIRES A TECHNICIAN TRAINED IN CONFINED SPACE ENTRY WITH ANSI/OSHA SAFETY EQUIPMENT. THIS INDIVIDUAL MUST BE EQUIPPED WITH THE PROPER SAFETY EQUIPMENT FOR ENTRY INTO THE STORMFILTER. THE TECHNICIAN WILL BE LOWERED OFFTO THE STORMFILTER UNIT. THE WASTE ON THE UNIT MUST BE REMOVED. INSIDE THE UNIT, AND THE FILTERS WHICH MAY BE REMOVED ACCORDING TO STORMFILTER MAINTENANCE GUIDELINES. ONCE THERE IS TIME AND REMOVED THE INSPECTOR CAN ENTER THE STORMFILTER UNIT TO FLUSHOUT THE CITY CAMERA ROBOT.

C. THE INLET ROW OF THE CULTEC SYSTEM IS PLACED ON A PVC WITH ELBOW LEADS TO THE ROW OF BUILDING OF THE WARRIOR ATOMIC MINIMUM TWO ROWS. THE ALSO FACILITIES THE FLUSHING OF THE ROW WITH HIGH PRESSURE WATER THROUGH A CULTEC CLEANING NOZZLE. THIS NOZZLE IS OPERATED THROUGH A MANHOLE OR THE STORMFILTER AND EXTENDED TO THE END OF THE ROW. THE WATER IS PUMPED ON AND THE INLET ROW IS BACK FLUSHED INTO THE MANHOLE OR STORMFILTER. THE WASTE IS TO BE REMOVED FROM THE MANHOLE OR STORMFILTER USING A VACUUM TRUCK.

III. MAINTENANCE GUIDELINES

THE FOLLOWING GUIDELINES SHALL BE ADHERED TO FOR THE OPERATION AND MAINTENANCE OF THE CULTEC STORMWATER MANAGEMENT SYSTEM:

A. THE OWNER SHALL KEEP A MAINTENANCE LOG WHICH SHALL INCLUDE RECORDS OF ANY EVENTS WHICH WOULD HAVE AN EFFECT ON THE SYSTEM'S OPERATIONAL CAPACITY.

B. THE OPERATION AND MAINTENANCE PROCEDURE SHALL BE REVIEWED PERIODICALLY AND CHANGED TO MEET SITE CONDITIONS.

C. MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE PERFORMED BY QUALIFIED REPAIRS AND SHALL FOLLOW APPLICABLE OSHA/FEDERAL HEALTH AND SAFETY REQUIREMENTS.

D. DEBRIS REMOVED FROM THE STORMWATER MANAGEMENT SYSTEM SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.

IV. SUGGESTED MAINTENANCE SCHEDULE

A. ROUTINE MAINTENANCE

THE FOLLOWING SUGGESTED SCHEDULE SHALL BE FOLLOWED FOR ROUTINE MAINTENANCE DURING THE REGULAR OPERATION OF THE STORMWATER SYSTEM:

FREQUENCY	ACTION
MONTHLY IN FIRST YEAR	CHECK INLETS AND OUTLETS FOR CLOGGING AND REMOVE ANY DEBRIS AS REQUIRED.
SPRING AND FALL	CHECK INLETS AND OUTLETS FOR CLOGGING AND REMOVE ANY DEBRIS AS REQUIRED.
ONE YEAR AFTER COMMISSIONING AND EVERY THREE YEAR FOLLOWING	CHECK INLETS AND OUTLETS FOR CLOGGING AND REMOVE ANY DEBRIS AS REQUIRED.

B. MAJOR MAINTENANCE

THE FOLLOWING SUGGESTED MAINTENANCE SCHEDULE SHALL BE FOLLOWED TO MAINTAIN THE PERFORMANCE OF THE CULTEC STORMWATER MANAGEMENT CHAMBERS. ADDITIONAL WORK MAY BE NECESSARY DUE TO UNFORESEEN FORCE MAJEURE AND OTHER ISSUES THAT MIGHT BE FOUND DURING THE INSPECTION OF THE STORMWATER MANAGEMENT CHAMBERS.

	FREQUENCY	ACTION
INLETS & OUTLETS	EVERY 3 YEARS	• OBTAIN DOCUMENTATION THAT THE INLETS, OUTLETS AND VENTS WERE BEEN CLEANED AND WILL FUNCTION AS INTENDED. • CHECK INLET AND OUTLET FOR CLOGGING AND REMOVE ANY DEBRIS AS REQUIRED.
	SPRING & FALL	• CHECK INLET AND OUTLET FOR CLOGGING AND REMOVE ANY DEBRIS AS REQUIRED.
CULTEC STORMWATER CHAMBERS	2 YEARS AFTER	• INSPECT THE INTERIOR OF THE STORMWATER MANAGEMENT CHAMBERS THROUGH INSPECTION PORTS FOR DEPRESSIONS USING CCTV OR COMPARABLE TECHNIQUE. • OBTAIN DOCUMENTATION THAT THE STORMWATER MANAGEMENT CHAMBERS AND FEED CONNECTIONS WILL FUNCTION AS INTENDED.
	5 YEARS AFTER COMMISSIONING EVERY 5 YEARS FOLLOWING	• CLEAN STORMWATER MANAGEMENT CHAMBERS AND FEED CONNECTIONS OF ANY DEBRIS. • INSPECT THE INTERIOR OF THE STORMWATER MANAGEMENT STRUCTURES FOR DEPRESSIONS USING CCTV OR COMPARABLE TECHNIQUE. • OBTAIN DOCUMENTATION THAT THE STORMWATER MANAGEMENT CHAMBERS AND FEED CONNECTIONS WILL FUNCTION AS INTENDED.
	40 YEARS AFTER COMMISSIONING	• CLEAN STORMWATER MANAGEMENT CHAMBERS AND FEED CONNECTIONS OF ANY DEBRIS. • DETERMINE THE REMAINING LIFE EXPECTANCY OF THE STORMWATER MANAGEMENT SYSTEM AND RECOMMEND SCHEDULE AND ACTIONS TO REHABILITATE THE STORMWATER MANAGEMENT STRUCTURES AS NECESSARY. • INSPECT THE INTERIOR OF THE STORMWATER MANAGEMENT STRUCTURES FOR DEPRESSIONS USING CCTV OR COMPARABLE TECHNIQUE. • REPLACE OR REPAIRS THE STORMWATER MANAGEMENT CHAMBERS IN ACCORDANCE WITH THE SCHEDULE DETERMINED AT THE 40-YEAR INSPECTION. • ATTAIN THE APPROVALS AS REQUIRED. • BEGIN ON A NEW OPERATION AND MAINTENANCE SCHEDULE.
SURROUNDING SITE	MONTHLY IN 1ST YEAR	• CHECK FOR DEPRESSIONS IN AREAS OVER AND SURROUNDING THE STORMWATER MANAGEMENT SYSTEMS.
	SPRING & FALL	• CHECK FOR DEPRESSIONS IN AREAS OVER AND SURROUNDING THE STORMWATER MANAGEMENT SYSTEMS.
	YEARLY	• CONFIRM THAT NO UNAUTHORIZED MODIFICATIONS HAVE BEEN PERFORMED TO THE SITE.

VI. IN THE ABSENCE OF EVIDENCE OF CONTAMINATION, REMOVED DEBRIS MAY BE TAKEN TO A LANDFILL OR OTHER PERMITTED FACILITY.

VII. SEDIMENT TESTING MAY BE REQUIRED PRIOR TO SEDIMENT DISPOSAL WHEN A LAND USE WITH HIGHER POTENTIAL POLLUTANT LOAD (LUHPL) IS PRESENT.

VIII. MAINTENANCE OF THE INFILTRATION SYSTEM DURING THE CONSTRUCTION PROCESS SHALL BE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

IX. ON COMPLETION OF CONSTRUCTION, MAINTENANCE OF THE INFILTRATION SYSTEM SHALL BECOME RESPONSIBILITY OF THE OWNER OF THE SITE.

CATCH BASIN STORMWATER SYSTEM MAINTENANCE SCHEDULE

1. INSPECTIONS SHALL BE PERFORMED A MINIMUM OF 2 TIMES A YEAR (SEMI-ANNUAL). UNITS SHALL BE CLEANED ANNUALLY AND WHENever THE DEPTH OF THE SEDIMENT IS GREATER THAN OR EQUAL TO HALF THE SUMP DEPTH.
2. THE GRATE SHALL NOT BE WELDED TO THE FRAME SO THAT THE SUMP CAN BE EASILY INSPECTED AND MAINTAINED.
3. SUFFICIENT MAINTENANCE ACCESS SHALL BE CONSIDERED WHEN DESIGNING THE GEOMETRY OF THE OIL & SUMP CATCH BASIN.
4. IN THE ABSENCE OF EVIDENCE OF CONTAMINATION, REMOVED DEBRIS MAY BE TAKEN TO A LANDFILL OR OTHER PERMITTED FACILITY.
5. SEDIMENT TESTING MAY BE REQUIRED PRIOR TO SEDIMENT DISPOSAL WHEN A LAND USE WITH HIGHER POTENTIAL POLLUTANT LOAD (LUHPL) IS PRESENT.
6. MAINTENANCE OF THE CATCH BASIN SYSTEM DURING THE CONSTRUCTION PROCESS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. ON COMPLETION OF CONSTRUCTION, MAINTENANCE OF THE CATCH BASIN SYSTEM SHALL BECOME RESPONSIBILITY OF THE OWNER OF THE SITE.

** SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

L. DOUGLAS HOTTE — No. 1338 — PROFESSIONAL ENGINEER

RICHARD B. LEPOTE — No. 1897 — PROFESSIONAL LAND SURVEYOR

NO.	DATE	REVISION	DRAWN BY
2	2/18/16	MODIFIED PER CRMC SIGNOFF COMMENTS	RBL
1	2/12/16	DESIGN MODIFICATION PER CLIENT'S REQUEST	RBL

GENERAL NOTES & LEGENDS
A.P. 30, LOT 305
BOWANS ROAD
BARRINGTON, RHODE ISLAND

ALFRED ALMEIDA
152 LINCOLN AVENUE
BARRINGTON, RHODE ISLAND 02806

PROJECT NO. 14-180
SCALE: NO SCALE
DATE: 01/13/14
REVISION: 2/12/16
DRAWN BY: RBL/JDS
CHECKED BY: RBL/JDS
FILENAME: Alfred Residential.dwg
SHEET 1 OF 1 SHTS
DRAWING C-2.0

Waterman ENGINEERING COMPANY
Engineers & Surveyors, Inc. 1998
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East Providence, RI
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DEMOLITION NOTES

1. ALL BROKEN & DEMARCATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY DEMOLITION OR SITE IMPROVEMENTS AND SHALL REMAIN IN PLACE UNTIL THE PROJECT IS COMPLETE.
2. THE DEMOLITION WORK SHALL INCLUDE THE ENTIRE BUILDING, OF ANY MATERIALS REMOVED FROM THE SITE. DEMOLITION SHALL BE LIMITED TO THE LOCATIONS SHOWN.
3. DEBRIS OF ANY NATURE SHALL NOT BE ALLOWED TO ACCUMULATE ON THE STREETS, SIDEWALK AREAS OR GROUND SURROUNDING THE DEMOLITION WORK.
4. ALL REQUIRED AUTHORIZATION TO PERFORM WORK MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
5. UPON COMPLETION OF THE DEMOLITION WORK, THE SITE SHALL BE LEFT IN A CLEAN AND SAFE CONDITION.
6. ANY UTILITY PIPES, CONDUITS, TREES, SHRUBBERY AND STRUCTURES REMOVED SHALL BE DISPOSED OFF SITE. CAVITIES SHALL BE FILLED TO THE LEVEL OF THE SURROUNDING GROUND. FILL SHALL CONSIST OF GRAVEL BORROW AS SPECIFIED IN THE CONTRACT SPECIFICATIONS. FOR ALL EXCAVATION AND PLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN COMPLIANCE WITH THE ALL STANDARD SPECIFICATION SECTION 300.
7. WHEN HOLES, PITS OR OTHER HAZARDOUS DEPRESSIONS ARE ADJACENT TO OR WITHIN EIGHT (8) FEET OF ANY SIDEWALK AND ARE UNINSPECTED, A TEMPORARY GUARD FENCE SHALL BE IMMEDIATELY ERECTED FOR THE PROTECTION OF PEDESTRIANS. THE FENCING MATERIAL SHALL BE FREE FROM HOLES, CRATERING OR REPAIRS, AND SHALL PRESENT A REASONABLY SMOOTH SURFACE ON THE SIDES OF FORMING CONTACT. SUCH TEMPORARY FENCING SHALL BE LEFT IN PLACE AND SHALL BE PROPERLY MAINTAINED UNTIL THE HOLES, PITS OR DEPRESSIONS HAVE BEEN PROPERLY FILLED.
8. THE CONTRACTOR SHALL AT ALL TIMES PROVIDE A SUFFICIENT NUMBER OF WORKMEN ALWAYS AS MAY BE NECESSARY TO PROPERLY SAFEGUARD THE PUBLIC FROM ANY OPERATIONS.
9. DURING THE DEMOLITION PROCESS THE CONTRACTOR SHALL USE SUFFICIENT WATER OR NON-SALVAGE MATERIALS TO PREVENT EXCESSIVE SPREADING OF DUST DURING DEMOLITION OPERATIONS.
10. THE REMOVAL OF ALL ITEMS ASSOCIATED WITH THIS SITE SHALL BE DONE IN ACCORDANCE WITH THE APPROPRIATE LOCAL, STATE AND FEDERAL STANDARDS & REGULATIONS.
11. THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST DAMAGING OF PAVING, SIDEWALKS, UTILITIES OR PRIVATE PROPERTIES AND SHALL PROMPTLY REPAIR AT THE OWNER'S EXPENSE, ANY DAMAGE TO SUCH PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES TO THE SATISFACTION OF THE OWNER.
12. FOR UTILITY SERVICE REMOVAL, THE CONTRACTOR IS RESPONSIBLE TO CONTACT ALL APPLICABLE UTILITY COMPANIES PRIOR TO WORK AND OBTAIN THE NECESSARY PERMITS AND AUTHORIZATIONS.
13. ANY UTILITY AND DRAINAGE SYSTEM REMOVAL AND DISPOSAL CAN ONLY OCCUR FOLLOWING THEIR DISCONNECTION IN ACCORDANCE WITH THE PLANS. ALL UTILITIES AND DRAINS MUST REMAIN ACTIVE.

** SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

L. ROBERT SMITH No. 3630 PROFESSIONAL ENGINEER

RICHARD E. LIPSITZ No. 1637 PROFESSIONAL LAND SURVEYOR

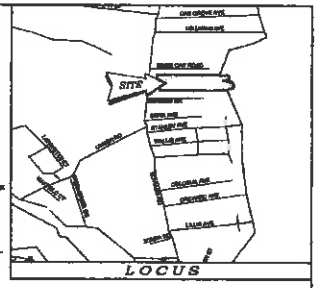
CERTIFICATION

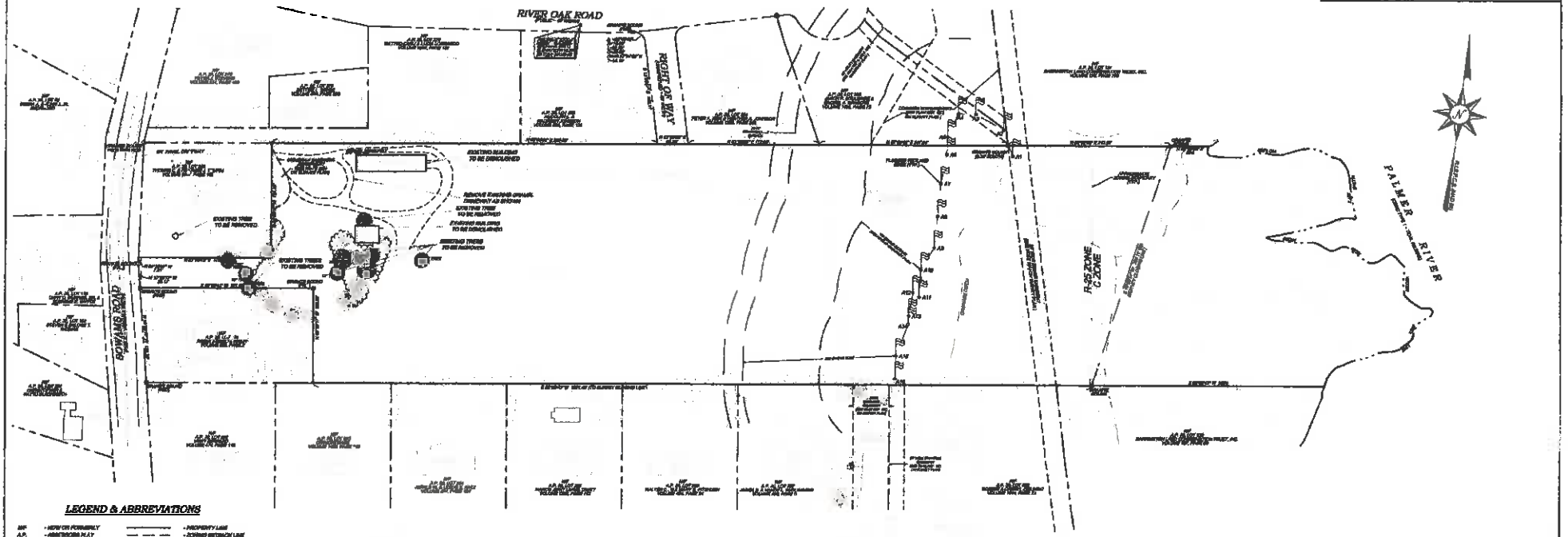
THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING CLASS STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS, EFFECTIVE APRIL 1, 2004.

BOUNDARY SURVEY - CLASS I
TOPOGRAPHIC SURVEY - CLASS III

RICHARD E. LIPSITZ
WATERMAN ENGINEERING COMPANY

REV 6-7-16
REG. NO. DATE





LEGEND & ABBREVIATIONS

NIF	- NEW OR FORMERLY
A.P.	- ASSESSORS PLAT
S.F.	- SQUARE FEET
AC.	- ACRES
⊥	- PILES OR MRUB
STY	- STORY
WF	- WOOD FRAMED
BKP	- STOP OF HYDRANT PLAT
RET.	- RETAINING WALL
PED.	- PEDESTRIAN
(TYP.)	- TYPICAL
YHB	- SO HORAN Y BOUND
Ent Nos.	- ENTRANCE NOS.
FE	- FLARED END
RCP	- REINFORCED CONCRETE PIPE
C.L.F.	- CHAIN LINK FENCE
INV.	- INVERT
4.10 SP	- EXISTING SPOT GRADE
4	- NEW SPOT GRADE
	- DECORATIVE METAL/ALUM FENCE
	- FILTER SOCK
	- PROPERTY LINE
	- FORMER SETBACK LINE
	- EXISTING CONTOUR
	- NEW CONTOUR
	- STONE WALL
	- FENCE
	- SEWER LINE
	- DRAIN LINE
	- WATER LINE
	- GAS LINE
	- ELECTRIC LINE
	- SANITARY SEWER MANHOLE
	- CATCH BASIN
	- STORM DRAIN MANHOLE
	- WATER GATE
	- GAS VALVE
	- ELECTRIC MANHOLE
	- GRANITE BOUND
	- DRILL HOLE
	- IRON PIPE

GRAPHIC SCALE

60 0 30 60 120 180

(in feet)

1 INCH EQUALS 60 FEET

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NO.	DATE	REVISION	CHECKED BY
2	6/7/16	ADDRESS FOR CRAIG STRONG'S COMMENTS	RAL
1	3/16/16	DESIGN MODIFICATION PER CLIENT'S REQUEST	RAL

SITE DEMOLITION PLAN
A.P. 30, LOT 308
SOWAMS ROAD
BARRINGTON, RHODE ISLAND

ALFRED ALMEIDA
130 LINCOLN AVENUE
BARRINGTON, RHODE ISLAND 02806

DRAWN BY: H.I.J.
SCALE: 1" = 60'
DATE: 11/13/15
REVISED: 6/07/16
DESIGNED: RAL/LJB
DRAWING: 13-135_Site-Demolition.dwg
SHEET: 3 of 18 SITE DEMOLITION
DRAWING #: C-3.0

Waterman ENGINEERING COMPANY
Surveyors & Engineers Est. 1976

NOTES / REFERENCES

1. SEE SHEET 1 FOR EXISTING NOTES & REFERENCES.

** SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

L. ROBERT SMITH — No. 3936 — PROFESSIONAL ENGINEER

RICHARD S. LIPSITZ — No. 1627 — PROFESSIONAL LAND SURVEYOR

CERTIFICATION

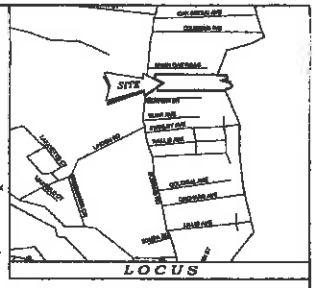
THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING CLASS STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS, EFFECTIVE APRIL 1, 1994:

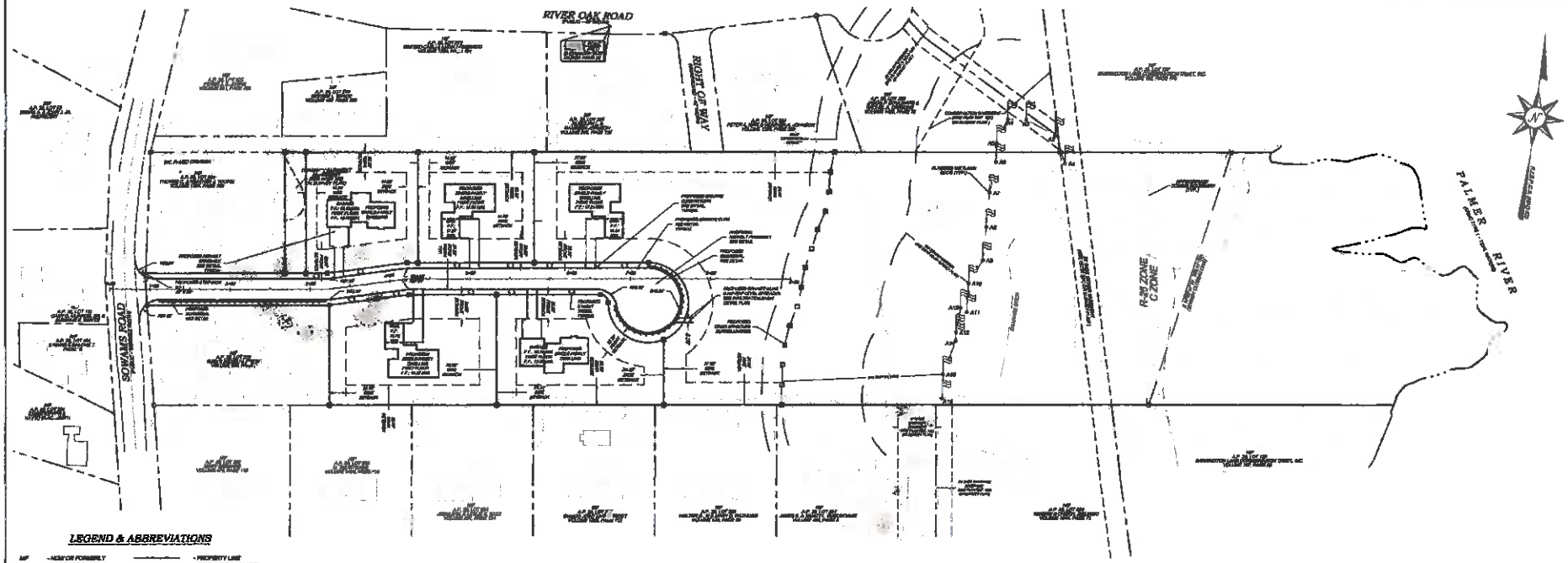
BOUNDARY SURVEY - CLASS I

TOPOGRAPHIC SURVEY - CLASS IV

RICHARD S. LIPSITZ — RIPLS NO — DATE 6-2-06

WATERMAN ENGINEERING COMPANY





LEGEND & ABBREVIATIONS

N/F	- NOW OR FORMERLY		- PROPERTY LINE
A.P.	- ASSR. SURR PLAT		- ZONING DISTRICT LINE
S.F.	- SQUARE FEET		- EXISTING CONTOUR
AC.	- ACRES		- NEW CONTOUR
⊕	- PLUG OR UNUS		- STONE WALL
STY	- STORY		- FENCE
WF	- WOOD FRAMED		- SEWER LINE
SHP	- STATE HIGHWAY PLAT		- DRAIN LINE
RET.	- RETAINING WALL		- WATER LINE
PED.	- PEDESTRIAN		- GAS LINE
(FND.)	- FOUND		- ELECTRIC LINE
BMB	- BENCHMARK/ BOUND		- SANITARY SEWER MANHOLE
PK NAIL	- HANDICAP NAIL		- CATCH BASIN
PE	- PLANED END		- STORM DRAIN MANHOLE
RCP	- REINFORCED CONCRETE PIPE		- WATER GATE
CLF	- CHAIN LINK FENCE		- GAS VALVE
WV	- WHERE		- ELECTRIC MANHOLE
⊕ SUB	- EXISTING SPOT GRADE		- GRANITE BOUND
	- NEW SPOT GRADE		- DRILL HOLE
	- COMPANY / VISUAL BILITY FENCE		- IRON PIPE
	- FILTER BOOM		

GRAPHIC SCALE

60 0 30 60 120 180

(in feet)

1 INCH EQUALS 60 FEET

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NO.	DATE	REVISION	DRAWN BY
2	2/16/2015	MODIFIED PER CRMC 2/2/2015 COMMENTS	RSL
1	2/16/2015	DESIGN MODIFICATION PER CLIENT'S REQUEST	RSL

SITE LAYOUT PLAN
A.P. 30, LOT 309
SOWAMS ROAD
BARRINGTON, RHODE ISLAND

ALFRED ALMEIDA
133 LINCOLN AVENUE
BARRINGTON, RHODE ISLAND 02806

PROJECT NO. 14-100
SCALE 1" = 60'
DATE 01/12/15
DRAWN BY RSL/RJB
CHECKED BY RSL/LMS
FILENAME 14-100-Alfred-Site-Plan.dwg
SHEET NO. C-4.0

Waterman ENGINEERING COMPANY
Engineers & Surveyors - For 1945

30 Rotten Avenue
East Providence, RI
Phone: (401) 434-[illegible]
Fax: (401) 438-[illegible]
www.waterman-eng.com

NOTES / REFERENCES

1. SEE SHEET 1 FOR EXISTING NOTES & REFERENCES.

** SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

L. ROBERT FOTH — No. [illegible] — PROFESSIONAL ENGINEER

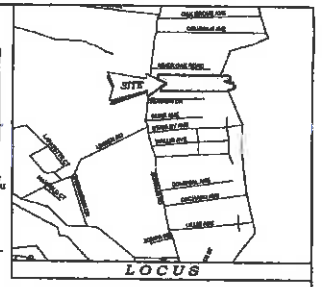
RICHARD S. LIPSITZ — No. 1857 — LAND SURVEYOR

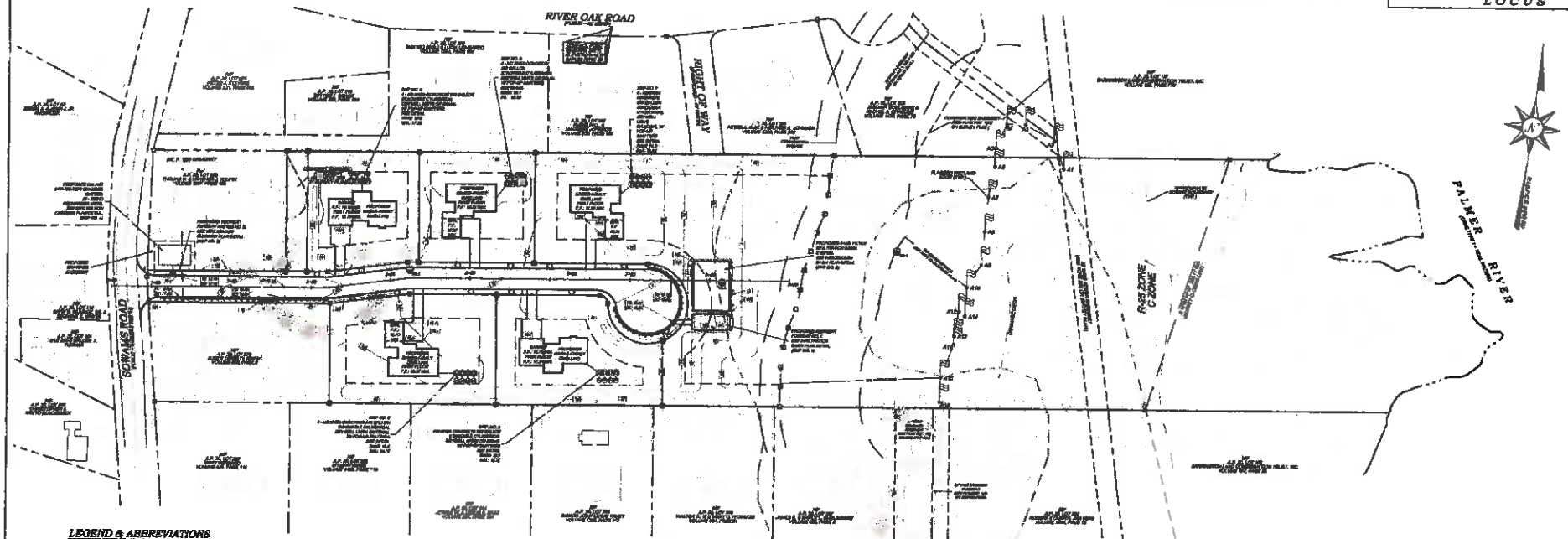
CERTIFICATION

THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING CLASS STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS, EFFECTIVE APRIL 1, 1994.

BOUNDARY SURVEY - CLASS 1
TOPOGRAPHIC SURVEY - CLASS III

RICHARD S. LIPSITZ — WATERMAN ENGINEERING COMPANY — REG. NO. — DATE 6-7-16





LEGEND & ABBREVIATIONS

N/F	- NOW OR FORMERLY		- PROPERTY LINE
A.P.	- ASSESSORS PLAT		- ZONING SETBACK LINE
S.F.	- SQUARE FEET		- EXISTING CONTOUR
AC.	- ACRES		- NEW CONTOUR
Δ	- PLUS OR MINUS		- STONE WALL
STY	- STORY	—X—	- FENCE
WF	- WOOD FRAMED	—S—	- SEWER LINE
SHP	- STATE HIGHWAY PLAT	—D—	- DRAIN LINE
RET.	- RETAINING WALL	—W—	- WATER LINE
PBL	- PUBLISHMAN	—G—	- GAS LINE
(FND.)	- FOUND	—E—	- ELECTRIC LINE
(SHS)	- AS THE WAY SOUND		- SANITARY SEWER MANHOLE
PK NAIL	- MONUMENT NAIL		- CATCH BASIN
FE	- FLARED END		- STORM DRAIN MANHOLE
RCP	- REINFORCED CONCRETE PIPE		- WATER GATE
CLF	- CHAIN LINK FENCE		- GAS VALVE
BHC	- BASKET		- ELECTRIC MANHOLE
X 15.25	- EXISTING SPOT GRADE		- GRANITE BOUND
	- NEW SPOT GRADE		- DRILL HOLE
	- COMBINE HYDRANT/LT FENCE		- IRON PIPE
	- PILTER BOOK		

GRAPHIC SCALE

60 0 30 60 120 180

(in feet)

1 INCH EQUALS 60 FEET

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NO.	DATE	REVISION	CHECKED BY
2	[illegible]	[illegible]	[illegible]
1	[illegible]	[illegible]	[illegible]

GRADING & DRAINAGE PLAN
A.P. 30, LOT 308
SOWAMS ROAD
BARRINGTON, RHODE ISLAND

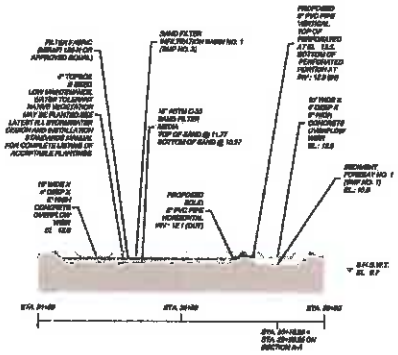
ALFRED ALMEIDA
152 LINCOLN AVENUE
BARRINGTON, RHODE ISLAND 02806

PROJECT NO. 16-180
SCALE 1" = 60'
DATE 06/13/16
REVISED
REVISED
REVISED
DRAWN BY [illegible]
CHECKED BY [illegible]
DRAWING C-5.0

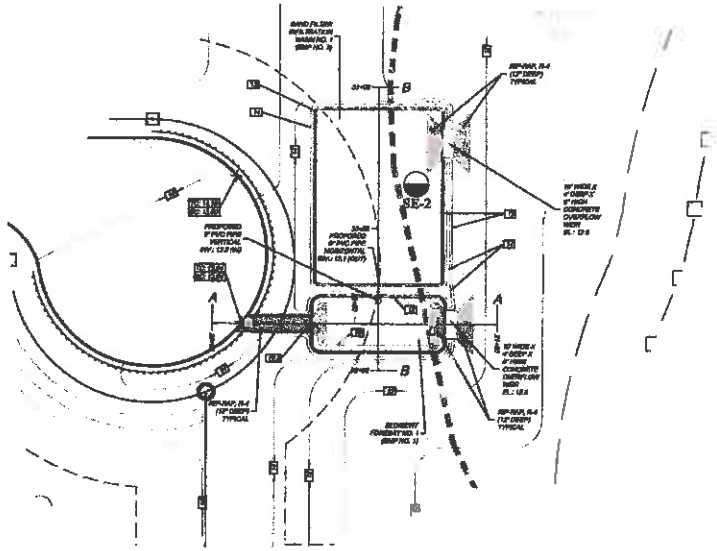
Waterman ENGINEERING COMPANY
Engineers & Surveyors - Est. 1894
[illegible] Providence, RI
Phone: [illegible]
Fax: [illegible]
[illegible]

NOTES / REFERENCES

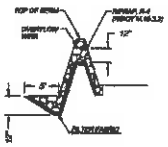
1. SEE SHEET 1 FOR EXISTING NOTES & REFERENCES



SECTION B-B VIEW OF SAND FILTER INFILTRATION BASIN



PLAN VIEW OF INFILTRATION BASIN SYSTEM



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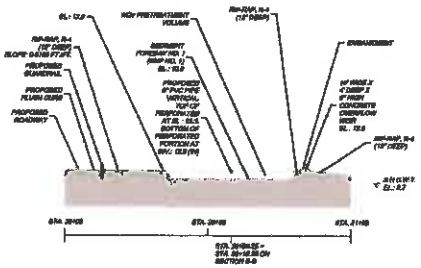
(N.T.S.)



SECTION A-A VIEW OF INFILTRATION BASIN FOREBAY

** SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

L. ROBERT PACIUS No. 2626 PROFESSIONAL ENGINEER

RICHARD S. LIPETZ No. 1877 PROFESSIONAL LAND SURVEYOR

CERTIFICATION

THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING CLASS SPECIFICATIONS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS, EFFECTIVE APRIL 1, 1994:

BOUNDARY SURVEY - CLASS 1
TOPOGRAPHIC SURVEY - CLASS III

RICHARD S. LIPETZ
WATERMAN ENGINEERING COMPANY

MAY 6-7-16
REG. NO. DATE

LEGEND & ABBREVIATIONS

MP	- MONUMENT (FOUND/SET)		- PROPERTY LINE
A.P.	- ASSESSORS PLAT		- REVISED SETBACK LINE
S.F.	- SQUARE FEET		- EXISTING CONTOUR
AC.	- ACRES		- INTERMEDIATE CONTOUR
±	- PLUS OR MINUS		- STONE WALL
STY	- STORY	X	- FENCE
WF	- WOOD FRAMED	S	- SEWER LINE
SHP	- STATE HIGHWAY PLAT	D	- DRAIN LINE
RET.	- RETAINING WALL	W	- WATER LINE
REG.	- REGISTRANT	C	- GAS LINE
(FND.)	- FOUND	E	- ELECTRIC LINE
RHS	- RI HIGHWAY BOUND		- SANITARY SEWER MANHOLE
PC BRL	- MASONRY BARL		- CATCH BASIN
FE	- FLARED END		- STORM DRAIN MANHOLE
RCP	- REINFORCED CONCRETE PIPE		- WATER GATE
CLF	- CHAIN LINK FENCE		- GAS VALVE
RIV.	- RIVET		- ELECTRIC MANHOLE
2 10.00	- EXISTING GRAPH SPACE		- GRAVEL GUARD
	- NEW SPOT GRADE		- DRILL HOLE
	- CONCRETE HANDICAPPED FENCE		- INCH PIPE
	- FILTER SOCK		

GRAPHIC SCALE
20 0 10 20 40 80
(In feet)
1 INCH EQUALS 20 FEET

NO.	DATE	REVISION	CHECKED BY
2	[illegible]	MODIFIED PER CRMC [illegible] COMMENTS	RSL
1	[illegible]	DESIGN MODIFICATION PER CLIENTS REQUEST	RSL

INFILTRATION BASIN DETAIL PLAN
A.P. 20, LOT 208
SOWAMS ROAD
BARRINGTON, RHODE ISLAND

ALFRED ALMEIDA
153 LINCOLN AVENUE
BARRINGTON, RHODE ISLAND 02806

PROJECT NO. 15-180
SCALE 1" = 20'
DATE 01/23/15
DRAWN BY RSL
CHECKED BY RSL
FILENAME [illegible]
DATE [illegible]
SHEET C-5.1

Waterman ENGINEERING COMPANY
Engineers & Surveyors - Est. 1956
[illegible]

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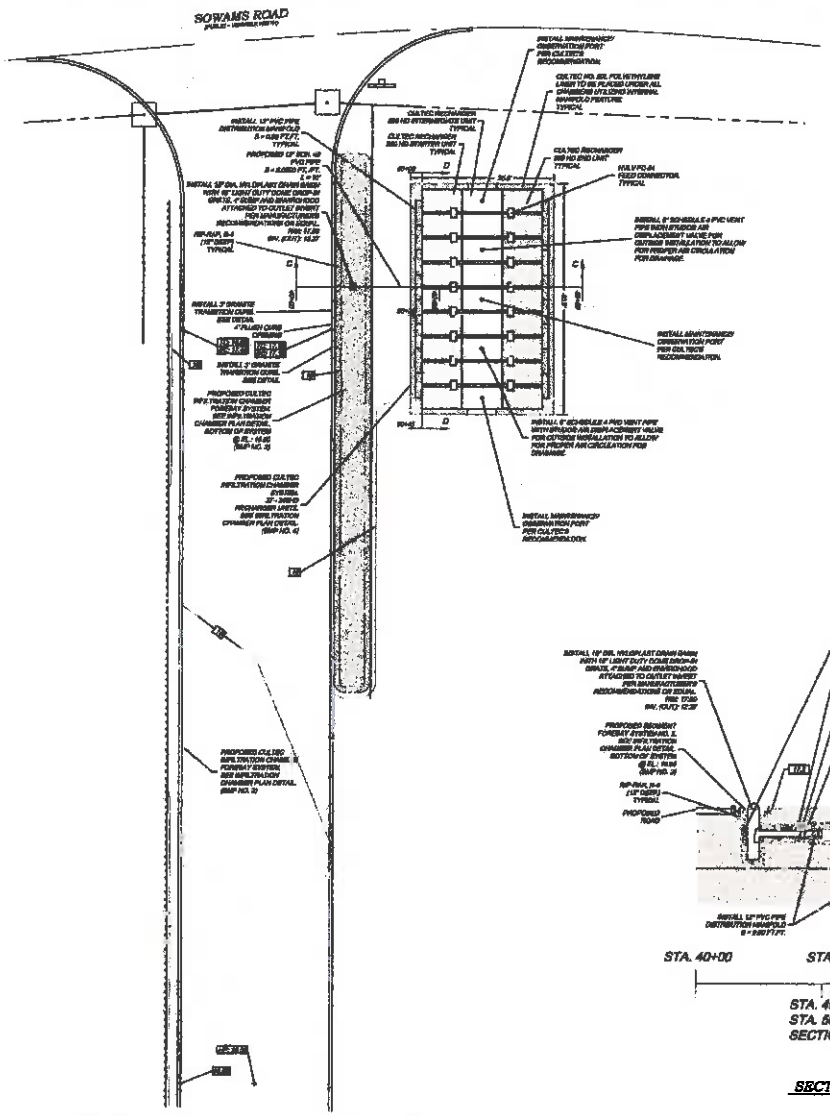
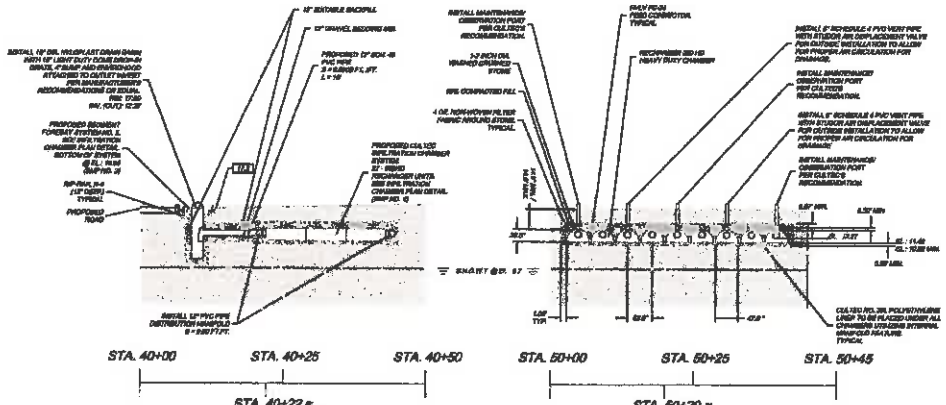


PLAN VIEW OF INFILTRATION CHAMBER SYSTEM



SECTION C-C

SECTION D-D

PROFILE VIEW OF INFILTRATION CHAMBER SYSTEM

NOTES / REFERENCES

1. SEE SHEET 1 FOR EXISTING NOTES & REFERENCES.

** SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

L. BURKEY BOWEN — No. 2336 — PROFESSIONAL ENGINEER

RICHARD H. LIPWITZ — No. 1327 — PROFESSIONAL LAND SURVEYOR

CERTIFICATION

THIS SURVEY AND PLAN CONFORMS TO THE FOLLOWING CLASS STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS, EFFECTIVE APRIL 1, 1994:

BOUNDARY SURVEY - CLASS I

TOPOGRAPHIC SURVEY - CLASS III

RICHARD H. LIPWITZ — PROFESSIONAL LAND SURVEYOR — REG. NO. — DATE

LEGEND & ABBREVIATIONS

WF	- WOOD FOUNDATION "F"		- PROPERTY LINE
P.P.	- ABBREVIATED PLAT		- NONPRESTRICTED LINE
B.P.	- BOUNDS TEST		- EXISTING CONTOUR
AC.	- ACRES		- NEW CONTOUR
A	- PLAN OF REPAIR		- STONE WALL
STY	- STORY		- FENCE
WF	- WOOD FRAMED		- SEWER LINE
BMF	- BITUMINOUS FLAT		- DRAIN LINE
RBC	- RETAINING WALL		- WATER LINE
PED.	- PEDESTRIAN		- GAS LINE
FND.	- FOUND		- ELECTRIC LINE
RWB	- RIGHT OF WAY BOUND		- SANITARY SEWER MANHOLE
FH/WM	- HYDRANT/WATER MAIL		- CATCH BASIN
RE	- PLANED END		- STORM DRAIN MANHOLE
RCP	- REINFORCED CONCRETE PIPE		- WATER GATE
CLF	- CHAIN LINK FENCE		- GAS VALVE
BM	- INVERT		- ELECTRIC MANHOLE
± 55.60	- EXISTING SPOT GRADE		- BENCH MARK
+	- NEW SPOT GRADE		- DRILL HOLE
	- CEDAR/WHITE RAIL FENCE		- IRON PIPE
	- FILTER BOXES		

GRAPHIC SCALE

0 5 10 20 40 80

(in feet)

1 INCH EQUALS 20 FEET

NO.	DATE	REVISION	CHECKED BY
2	5/22/18	MODIFIED PER GRAVE SHEETS IN COMMENTS	RHL
1	3/13/2018	CHANGE MADE TO ACCOMPLISH CLIENTS REQUEST	RHL

INFILTRATION CHAMBER DETAIL PLAN
A.P. 30, LOT 308
SOWAMS ROAD
BARRINGTON, RHODE ISLAND

ALFRED ALMEIDA
153 LINCOLN AVENUE
BARRINGTON, RHODE ISLAND 02806

PROJECT NO. 15-185
SCALE 1" = 10'
DATE 01/15/15
DRAWN BY BJD/MRL
CHECKED BY RHL/LBB
FILENAME
SHEET 11 of 18 SHTS
DRAWING C-5.2

Waterman ENGINEERING COMPANY
Engineers & Surveyors

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NOTES / REFERENCES

1. SEE SHEET 1 FOR ADDITIONAL NOTES & REFERENCES.

UTILITY NOTES

1. THIS PLAN REPRESENTS THE CONCEPTUAL UTILITY LAYOUT WITH APPROXIMATE LOCATIONS OF EXISTING AND PROPOSED PROVIDED.
2. PRIOR TO ANY UTILITY CONSTRUCTION, THE CONTRACTOR MUST PERFORM ADDITIONAL TEST TO:
   A. CONFIRM THE EXISTING DEPTHS OF UTILITIES AT ALL PROPOSED CONNECTION POINTS AND POTENTIAL CROSSING (CONFLICT) POINTS.
   B. THE CONTRACTOR SHALL DIG TEST HOLES TO VERIFY THE ELEVATIONS AND PIPE INVERTS OF THE EXISTING WATER, GAS, AND SANITARY SERVICES AT THE PROPOSED TIE-IN LOCATION.
3. ANY NON-CONFORMS TO THE PROPOSED UTILITIES TO AVOID CONFLICTS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. NO EXTRA PAYMENT TO THE CONTRACTOR FOR TO RELOCATIONS WILL BE APPROVED.
4. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO TIE-IN.
5. THIS UTILITY PLAN DOES NOT REPRESENT THE SITE ELECTRICAL/TELEPHONE/COMMUNICATION SYSTEM DESIGN.
6. THE CONTRACTOR MUST LOCATE THE EXISTING WATER MAIN TO OBTAIN THE PROPER OUTSIDE DIAMETER TO SIZE ANY SLEEVE.
7. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL UTILITY PIPE SIZES INCLUDING WATER, SEWER AND GAS ARE VERIFIED BY THE ARCHITECT PRIOR TO ORDERING PIPE OR RELATED MATERIAL.
8. ALL PROPOSED PIPES AND CONDUITS SHALL BE SWITCHED TO MEET H-20 LOADING CAPACITY. ALL BATTERS, AND TRENCHING METHODS SHALL CONFORM TO H-20 LOADING CAPACITIES. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS/CUTSHEETS FOR PROPOSED PIPE AND CONDUIT TO ENGINEER FOR APPROVAL.

** SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

L. ROBERT SMITH — PROFESSIONAL ENGINEER

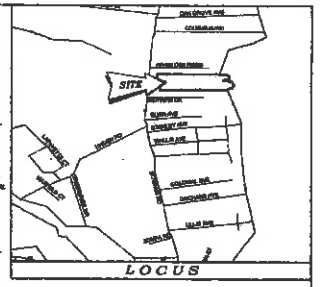
RICHARD S. LEWIS — PROFESSIONAL LAND SURVEYOR

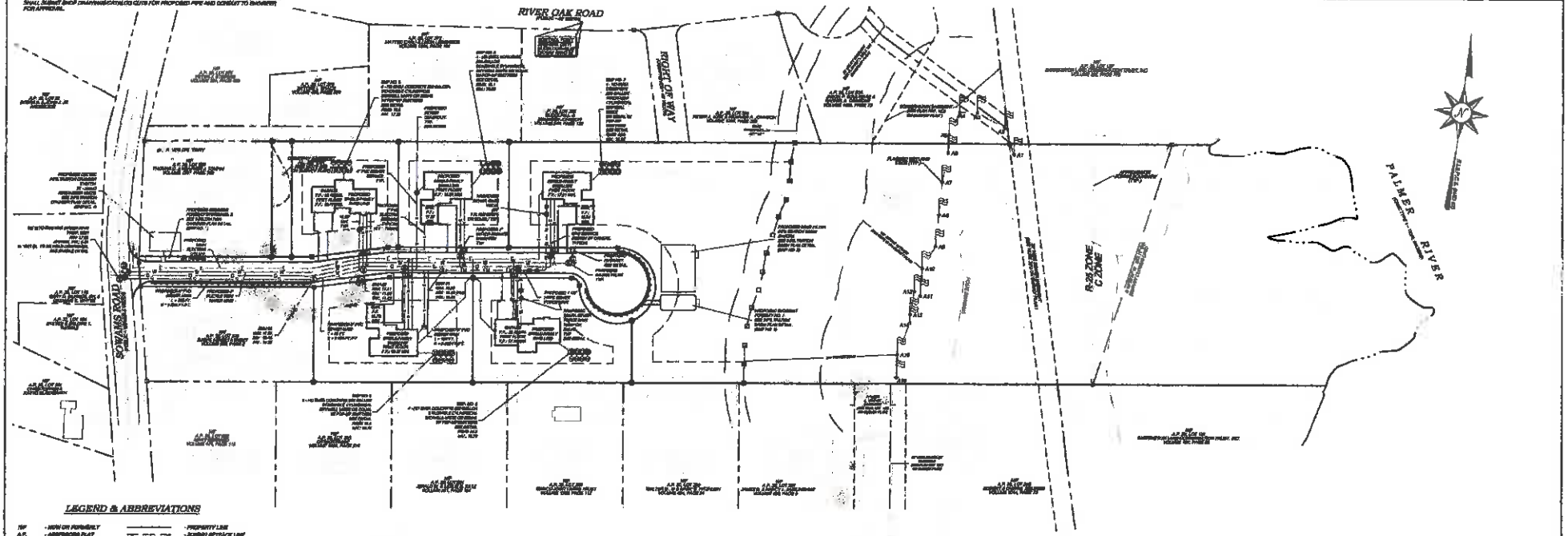
CERTIFICATION

THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING CLASS STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS, EFFECTIVE APRIL 1, 1994

BOUNDARY SURVEY - CLASS I
TOPOGRAPHIC SURVEY - CLASS III

RICHARD S. LEWIS — 6-7-16
PROFESSIONAL LAND SURVEYOR — REG. NO. — DATE





LEGEND & ABBREVIATIONS

TBF	- NEW OR FORMERLY		- PROPERTY LINE
A.P.	- ASSESSORS PLAT		- BUILDING SETBACK LINE
B.K.	- BOOK/PAGE		- EXISTING CONTOUR
AC.	- ACRES		- NEW CONTOUR
+	- PLUS OR MINUS		- STONE WALL
STY	- STORY		- FENCE
WF	- WOOD FRAMED		- SEWER LINE
SHP	- STATE HIGHWAY PLAT		- DRAIN LINE
RET.	- RETAINING WALL		- WATER LINE
PBX	- PICKETS/WAY		- GAS LINE
(FND.)	- FOUND		- ELECTRIC LINE
RAB	- IN HIGHWAY ROUND		- SANITARY SEWER MANHOLE
PK/TBNL	- MASONRY NAIL		- CATCH BASIN
FR.	- FLARED END		- STORM DRAIN MANHOLE
RCP	- REINFORCED CONCRETE PIPE		- WATER GATE
CLF	- CHAIN LINK FENCE		- GAS VALVE
SIN.	- SIGNET		- ELECTRIC MANHOLE
x 9.9/22	- SPOTTED SPOT GRADE		- GRANITE BOUND
	- NEW SPOT GRADE		- DRILL HOLE
	- COARSE METAL/VINYL FENCE		- IRON PIPE
	- FILTER BOND		

GRAPHIC SCALE

60 0 30 60 120 180

(in feet)

1 INCH EQUALS 60 FEET

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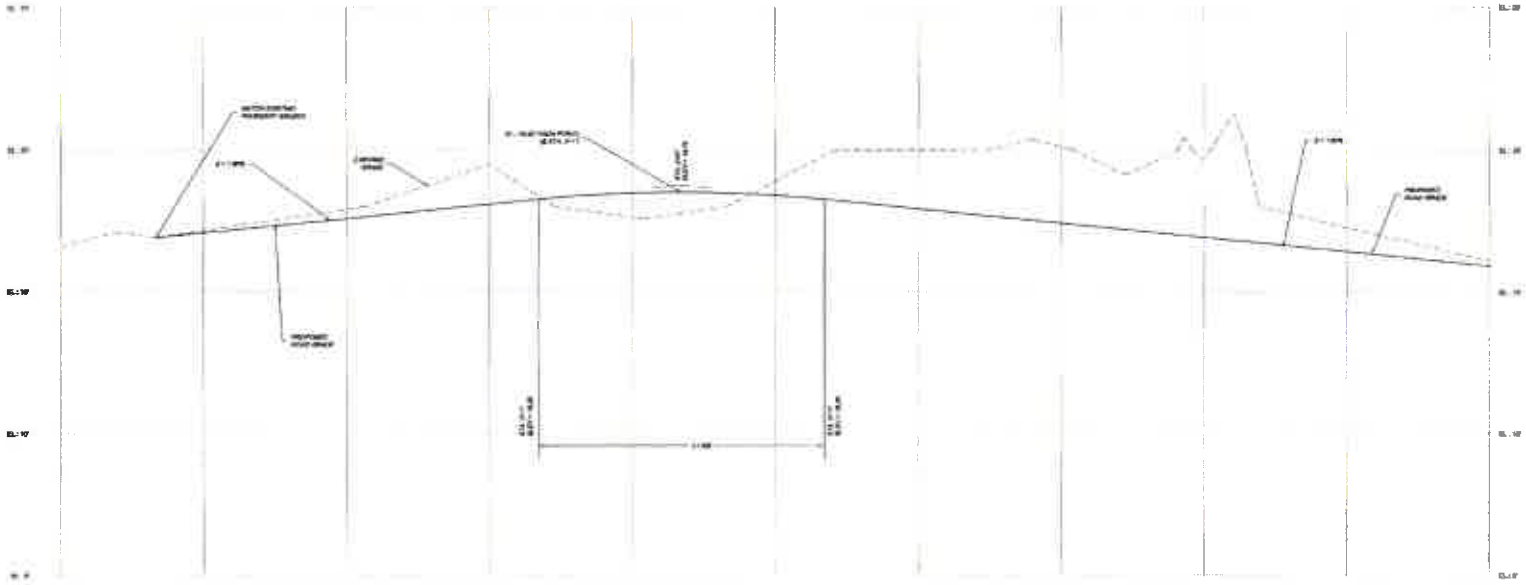
NO.	DATE	REVISION	
3	2/20/13	MODIFIED PER CRMC ENGINEER COMMENTS	RSL
1	2/13/13	DESIGN MODIFICATION PER CLIENT'S REQUEST	RSL

UTILITY PLAN
A.P. 30, LOT 305
SOWAMS ROAD
BARRINGTON, RHODE ISLAND

ALFRED ALMEIDA
125 LINCOLN AVENUE
BARRINGTON, RHODE ISLAND 02806

DRAWN BY	
W. CONTRACT	12-182
SCALE	1" = 60'
DATE	01/15/13
DESIGNED BY	SLP/RSL
DRAWN BY	RSL/RSL
REVISED	2/20/13
12_of_16_SHTS	
DRAWING	C-6.0

Waterman ENGINEERING COMPANY
Engineers & Surveyors



FOX RUN
SCALE HORZ. 1" = 20'
VERT. 1" = 2'

** SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

L. ROBERT SMITH — No. 9896 — RHODE ISLAND — PROFESSIONAL ENGINEER

RICHARD B. LIPSITZ — No. 1627 — PROFESSIONAL LAND SURVEYOR

CERTIFICATION

THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING CLASS STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS, EFFECTIVE JANE 1, 1994.

BOUNDARY SURVEY - CLASS I
TOPOGRAPHIC SURVEY - CLASS III

RICHARD B. LIPSITZ
WATERMAN ENGINEERING COMPANY

6-7-16
REF. NO. DATE

NO	DATE	REVISION	CHECKED BY
3	3/28/16	RECEIVED PER CRMC 3/23/16 COMMENTS	RBL
1	3/18/16	DESIGN MODIFICATION PER OWNER'S REQUEST	RBL

ROAD PROFILE PLAN 1
A.P. 30, LOT 309
ROWANS ROAD
BARRINGTON, RHODE ISLAND

ALFRED ALMEIDA
159 LINCOLN AVENUE
BARRINGTON, RHODE ISLAND 02806

PROJECT NO. 14-180
SCALE AS NOTED
DATE 01/12/15
DRAWN BY B.P./JBR
REVIEWED RBL/LRS
FILENAME 14-180_Rt-Profiles.dwg
SHEET 13 of 18 SHTS
DRAWING # C-7.1

Waterman ENGINEERING COMPANY
Engineers & Surveyors - Est. 1934

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** SIGNATURES MUST BE IN BLUE INK
TO CONSTITUTE AN ORIGINAL PLAN

L. ROBERT VINTON
No. 3036
RHODE ISLAND
PROFESSIONAL ENGINEER

RICHARD B. LIPERTZ
No. 1837
Professional
LAND SURVEYOR

CERTIFICATION

THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING CLASS STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS, EFFECTIVE APRIL 1, 1994:

SUBDIVIDED SURVEY - CLASS I
TOPOGRAPHIC SURVEY - CLASS III

MAY 6 2016
RICHARD B. LIPERTZ
WATERMAN ENGINEERING COMPANY
REG. NO. 1837

NO.	DATE	REVISION	CHECKED BY
2	5/02/16	MODIFIED FOR CRMC PERMITTING COMMENTS	RBL
1	3/16/16	DESIGN MODIFICATION PER CLIENT'S REQUEST	RBL

ROAD PROFILE PLAN 2
A.P. 30, LOT 306
SOWAMS ROAD
BARRINGTON, RHODE ISLAND

ALFRED ALMEIDA
153 LINCOLN AVENUE
BARRINGTON, RHODE ISLAND 02806

PROJECT: 14-189
SCALE: AS NOTED
DATE: 01/15/16
DRAWN BY: M.R.Y.
CHECKED BY: RBL/LBV
FILENAME: 14-189 Profile Plan.dwg
14 of 18 SHTS
SHEET: C-7.2

Waterman
ENGINEERING COMPANY
Surveyors • Planners • Engineers

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NOTES / REFERENCES

1. SEE SHEET 1 FOR EXISTING NOTES & REFERENCES.

DUST CONTROL NOTES

ON AN AS NEEDED BASIS OR AS DIRECTED BY OWNER, ENGINEER OR OWNER, THE CONTRACTOR SHALL UTILIZE ONE OF THE FOLLOWING METHODS TO CONTROL DUST:

A. THE EXPOSED SOIL SURFACE SHOULD BE MOISTENED PERIODICALLY WITH ADDITIVE WATER TO CONTROL DUST.

B. CALCIUM CHLORIDE SHOULD BE EITHER LOOSE DRY GRAN ULAR OR FLAKES PRE BROKEN TO PASS THROUGH A SPRINKLER AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE.

THE METHODS WOULD BE REPEATED AS NEEDED, AND SPECIAL ATTENTION MUST BE GIVEN TO THE ACCESS DRIVES.

INSPECTION/MAINTENANCE NOTES

1. PRIOR TO COMMENCING GRUBBING OPERATIONS AND SUBSEQUENT, FILTERSOCKS AND DESIGNED HEADWALLS, FENCE SHALL BE PLACED WHERE DIRECT FLOW TO PREVENT SEDIMENT FROM ENTERING EXISTING ROADWAY DRAINAGE SYSTEM, WETLAND AREAS AND ADJOINING PROPERTIES.
2. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING THE DRAINAGE SYSTEM.
3. ALL DISTURBED AREAS WHICH BECOME SUBJECT TO EROSIONS HENCEFORTH WITHOUT THEY BE NEWLY FILLED OR ENGINEERED SHALL RECEIVE SLOPE PROTECTION - BLOCK AT 100'-0MAX.
4. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING PERIODS OF RAINFALL.
5. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND REPAIR, AS DIRECTED BY THE ENGINEER.
6. ADDITIONAL FILTER SOCK OR BARRIERS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
7. THE LATEST VERSION OF THE "RHODE ISLAND SOIL EROSION MANAGEMENT CONTROL HANDBOOK" PREPARED BY THE R.I. SOIL CONSERVATION COMMITTEE, MUST BE UTILIZED BY THE CONTRACTOR AS A GUIDE.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL DUST CONTROL AND FOR THE ENTIRE PROJECT DURATION, INCLUDING TEMPORARY WEEK-EDGE PERIODS, MUST MONITOR AND REPAIR, AS NEEDED, ALL BLOWS TO ENSURE A STABLE PRODUCT.

GENERAL PROJECT WIDE NOTES

1. CONTRACTOR SHALL INSTALL TEMPORARY MEASURES SUCH AS, FIBER MATTING, DRAINAGE STONE, HAY OR STRAW IN AREAS WHERE SLOPES OR STABILIZATION HAS FAILED.
2. IF SEDIMENT IS TRACKED OR SPLOGED INTO THE ROADWAY, THE CONTRACTOR WILL BE REQUIRED TO INSTALL SILT SOCK OR APPROVED SHEET. UNDER WHETHER DITCH BARN BRACKS REMOVED AFTER CONSTRUCTION.
3. FILTER SOCK (OR SILT FENCE ON ATTACHED HOUSES) SHALL BE INSTALLED AROUND THE PERIMETER OF THE AREA TO BE DISTURBED BY CONSTRUCTION. ADDITIONAL APPLICATIONS OF THESE CONTROL MEASURES MAY BE REQUIRED DURING THE CONSTRUCTION PHASE. IN THE CONTRACTOR SHALL INSPECT THE SITE AT A MINIMUM OF ONCE PER WEEK OR WITHIN 24 HOURS AFTER A STORM EVENT.
4. IF EROSION OR BROKEN TOPSOIL ARE APPARENT ON THE SITE, THE CONTRACTOR IS RESPONSIBLE TO INSTALL ADDITIONAL CONSTRUCTION SHIPS SUCH AS SHED BARS AS SOON OR EROSION DURING CONSTRUCTION.
5. IF SEDIMENT OR DEBRIS IS TRACKED ONTO EXISTING PAVED AREAS ADJACENT TO THE CONSTRUCTION AREA, THE CONTRACTOR IS REQUIRED TO SWEEP THE PAVEMENT ON A DAILY BASIS. THE AREA SHALL BE INSPECTED DAILY.
6. THE CONTRACTOR IS RESPONSIBLE TO KEEP THE SITE CLEAN OF TRASH. RECOMMENDED DAILY PATROL OF THE CONSTRUCTION SITE SHOULD BE CONDUCTED TO PICK UP TRASH. THE OPERATOR SHALL PROVIDE THE CONTRACTOR TO HAVE PORTABLE SANITARY FACILITIES ON SITE. ROUTINE CLEANING AND WASTE DISPOSAL OF THESE FACILITIES IS REQUIRED.

FILTREXX SOXX NOTE

CONTRACTOR IS RESPONSIBLE TO BECOME FAMILIAR WITH THE FILTREXX PRODUCTS AND COORDINATE INSTALLATION SCHEDULES AND METHODS WITH THE ENGINEER PRIOR TO PLACEMENT.

EROSION CONTROL AND SOIL STABILIZATION PROGRAM

1. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT UNSUITABLE MATERIAL FROM ENTERING THE DRAINAGE SYSTEM, WETLAND AREAS, ADJACENT PROPERTY AND ROADWAYS.
2. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH PROTECTIVE COVER, SUCH AS A HAY OR FIBER LINER SHEAR, JUTE, FIBERGLASS NETTING, EROSION BLANKETS. THEY SHALL BE INCORPORATED INTO THE "RIGHT AS ENGINEERED OR AS DIRECTED BY THE OWNER.
3. HAY OR STRAW APPLICATIONS SHALL BE AT THE AMOUNT OF 2.5 - 4.0 TO 1 BALE/ACRE.
4. STOCKPILES SHALL HAVE SLOPES NO STEEPER THAN 2:1 AND SHALL BE REINFORCED BY STAKED HAY BALES OR SILT FENCING.
5. STOCKPILES EXPOSED FOR EXCESSIVE PERIODS SHALL RECEIVE TEMPORARY TREATMENT COMPRISING OF HAY, STRAW OR FIBER MATTING.
6. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL REPAIR / REPLACE AS NEEDED.
7. ADDITIONAL HAY BALES OR BARRIERS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER, OWNER, MUNICIPAL REPRESENTATIVE OR LOCAL D.E.O.T.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DUST CONTROL AT NO ADDITIONAL COST TO THE OWNER.
9. ALL CATCH BASINS ADJACENT TO THE CONSTRUCTION AREA SHALL BE PROTECTED BY SILT SACKS.
10. ALL PROPOSED CATCH BASINS SHALL BE PROTECTED BY STAKED HAY BALES, SILT FENCING OR SILT SACKS.
11. THE FILTREXX FILTER SOXX MAY BE INSTALLED ON THE EXISTING PAVEMENT / BEFORE IN AREAS WHERE DUST CONTROL CONTRACTOR SHALL INSPECT DAILY, IF SOIL EROSION OR SEDIMENT IS CONSIDERED IN THESE AREAS. THE CONTRACTOR SHALL RELOCATE OR INSTALL ADDITIONAL FILTREXX FILTER SOXX IN LOCATIONS THAT CAN BE ENGINEERED. THIS WORK IS INCLUDED IN THE PROJECT SCOPE.
12. SILT FENCE OR STAKED HAYBALES MAY BE USED IN LIEU OF FILTREXX FILTER SOXX.
13. AN ALTERNATE COMPOST SOCK OR STRAW WATTLE PRODUCT MAY BE USED IN LIEU OF FILTREXX FILTER SOXX UPON APPROVAL OF THE ENGINEER.

** SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

L. ROBERT SMITH — No. 5028 — PROFESSIONAL ENGINEER

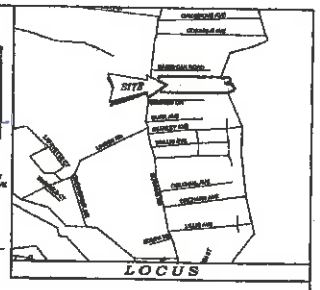
RICHARD S. LIPETZ — No. 1037 — PROFESSIONAL LAND SURVEYOR

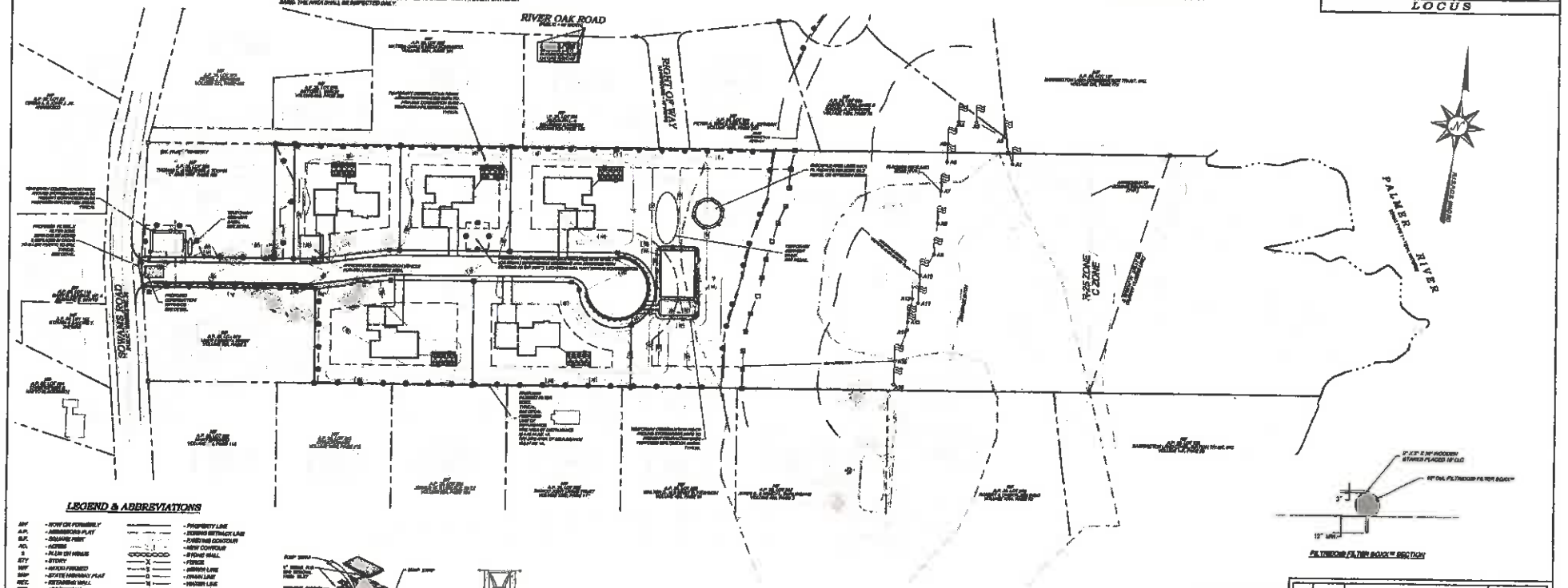
CERTIFICATION

THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING CLASS STANDARDS AS ADOPTED AT THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS, EFFECTIVE APRIL 1, 1994:

BOUNDARY SURVEY - CLASS I
TOPOGRAPHIC SURVEY - CLASS III

RICHARD S. LIPETZ — DATE: 6-7-16
SOUTHERN ENGINEERING COMPANY — REG. NO. 1037





LEGEND & ABBREVIATIONS

ROW	- ROW OR FORMERLY		- PROPERTY LINE
A.P.	- ABBREVIATION PLAT		- ZONING SETBACK LINE
S.F.	- SQUARE FEET		- EXISTING CONTOURS
NO.	- NOTES		- NEW CONTOURS
S	- SLAB OR HEMAS		- STONE WALL
STY	- STORY		- FENCE
WRF	- WOOD FRAMED		- GRIDIN LINE
SHP	- STATE HIGHWAY PLAT		- DRAIN LINE
RETC.	- RETAINING WALL		- WATER LINE
PEDL	- PEDESTRIAN		- GAS LINE
(PAD)	- POUND		- ELECTRIC LINE
RHS	- RI HIGHWAY SIGNS		- SANITARY SEWER MANHOLE
PH MAN.	- MAGNANY HOL		- CATCH BASIN
TE	- FLARED END		- STORM DRAIN MANHOLE
RCP	- REINFORCED CONCRETE PIPE		- WATER GATE
SLF	- CHAIN LINK FENCE		- GAS VALVE
INV	- INVERT		- ELECTRIC VAULT
X 10.00	- EXISTING SPOT GRADE		- SIGNAL SOLID
	- NEW SPOT GRADE		- GRILL HOLE
	- CONCRETE HAYBALE/SILT FENCE		- IRON PIPE
	- FILTER SOXX		

GRAPHIC SCALE

60 0 30 60 120 120

(in feet)
1 INCH EQUALS 60 FEET

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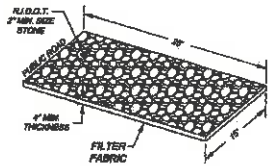
TYPICAL SILT SACK DETAIL
(N.T.S.)



CONSTRUCTION ENTRANCE DETAIL
(N.T.S.)

FILTREXX® FILTER SOXX™ SECTION

NOTES:

1. FILTREXX FILTER SOXX MAY BE USED IN LIEU OF SILT FENCE.
2. CONTRACTOR IS RESPONSIBLE TO BECOME FAMILIAR WITH THE FILTREXX PRODUCTS AND COORDINATE INSTALLATION SCHEDULES AND METHODS WITH ENGINEER PRIOR TO PLACEMENT.
3. ALL MATERIAL SHALL MEET FILTREXX SPECIFICATIONS.
4. COMPOST MATERIAL TO BE DISPOSED ON SITE AS DETERMINED BY ENGINEER.

FILTREXX® FILTER SOXX™ DETAIL
(N.T.S.)

FILTREXX® FILTER SOXX™ SECTION

NOTES:

1. TYPICAL SILT SACK AT EACH INLET IN VICINITY OF SOWAMS ROAD.
2. CONTRACTOR SHALL REPAIR THE SACK PRODUCT TO CHANGE FOR REPAIRS.

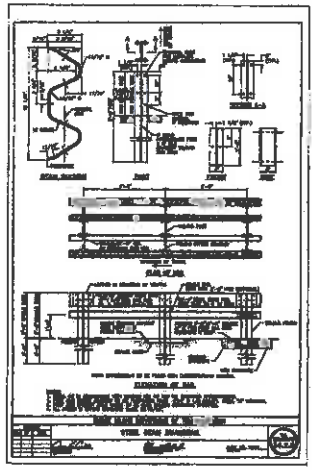
No.	DATE	REVISION	CHECKED BY
2	6/6/16	MODIFIED PER CRMC SOIL EROSION COMMENTS	RSL
1	3/16/16	DESIGN MODIFICATION PER CLIENT'S REQUEST	RSL

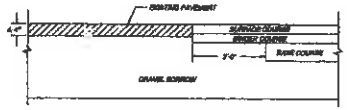
SOIL EROSION & SEDIMENTATION CONTROL PLAN
A.P. 30, LOT 308
SOWAMS ROAD
BARRINGTON, RHODE ISLAND

ALFRED ALMEIDA
153 LINCOLN AVENUE
BARRINGTON, RHODE ISLAND 02806

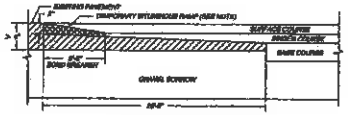
PROJECT NO. 14-180
SCALE 1" = 60'
DATE 11/13/15
DESIGN BY SJT/RSL
DRAWN BY SJT/RSL
CHECKED BY RSL/LRP
TOTAL SHEETS 15
SHEET NO. 15
DRAWING C-8.0

Waterman ENGINEERING COMPANY
Engineers & Surveyors - Est. 1904





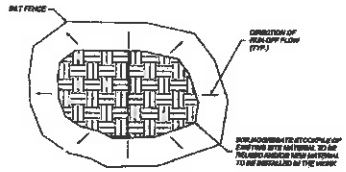
EXISTING PAVEMENT DEPTH≤4"



EXISTING PAVEMENT DEPTH 4"

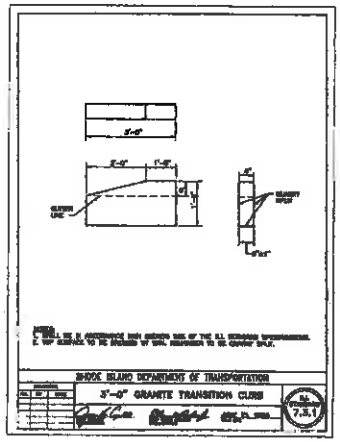
NOTE:
A BOND BREAKER (TACKED OR EQUIVALENT) WILL BE PLACED 6"AB FROM THE JOINT AND COVERED WITH THE BINDER COURSE AS THE TEMPORARY RAMP. PRIOR TO THE SURFACE COURSE, THE BINDER COURSE AND BOND BREAKER WILL BE REMOVED.

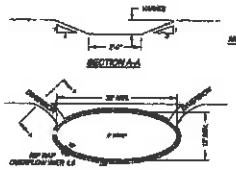
CUT AND MATCH PAVEMENT DETAIL
(N.T.S.)



NOTES:
1. ALL EXISTING GRANULATED MATERIAL THAT IS NOT TO BE REUSED IN THE WORK IS TO BE IMMEDIATELY REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.
2. SOIL/AGGREGATE STOCKPILE SITES TO BE WHERE SHOWN ON THE DRAWINGS.
3. RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITION AND REMOVE AS REQUIRED.
4. STOCKPILE HEIGHTS MUST NOT EXCEED 3'. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.

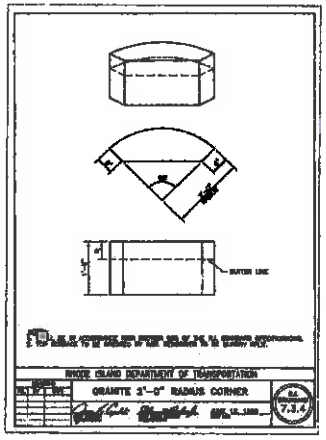
MATERIAL STOCKPILE DETAIL
(N.T.S.)

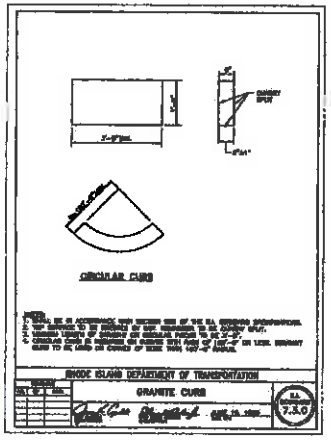


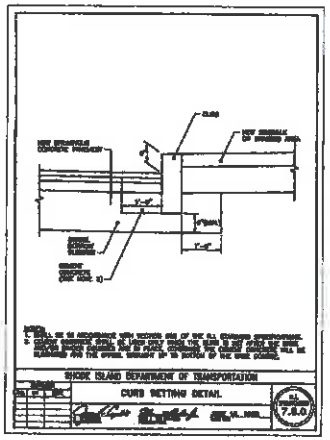


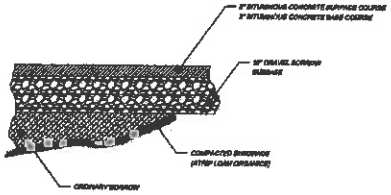
NOTES:
1. EXACT LOCATION AND SIZE OF BASIN TO BE DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION.
2. BASIN SHAPE TO BE ADJUSTED TO MATCH THE SITE CONDITIONS.

TEMPORARY SEDIMENT BASIN
(N.T.S.)









TYPICAL PAVEMENT SECTION
(N.T.S.)

** SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

NO.	DATE	REVISION	CHECKED BY
2	5/2/2019	MODIFIED PER ORIG. SIGNING COMMENTS	RSL
1	3/18/2019	DESIGN MODIFICATION PER CLIENTS REQUEST	RSL

DETAIL PLAN 1
A.P. 30, LOT 306
SOWAMS ROAD
BARRINGTON, RHODE ISLAND

ALFRED ALMEIDA
139 LINCOLN AVENUE
BARRINGTON, RHODE ISLAND 02806

DESIGNED 11-1-18
DATE AS NOTED
SCALE 01/13/19
DRAWN BB
CHECKED RSL
PROJECT 139
SHEET C-9.1

Waterman ENGINEERING COMPANY
Civil Engineers & Surveyors - C.T. 12005

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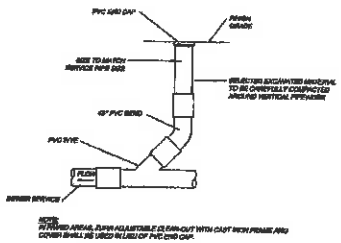
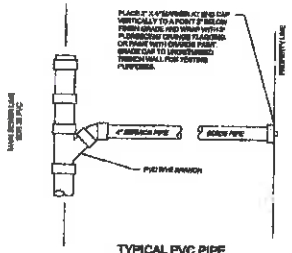
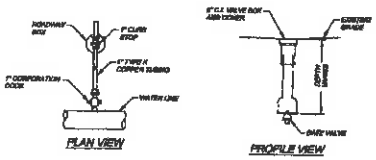


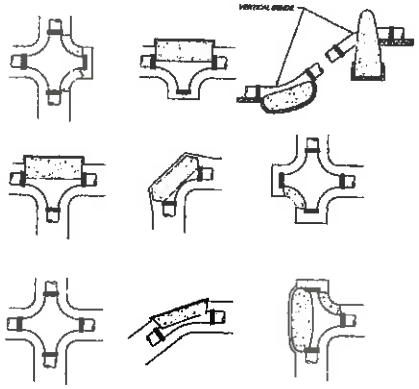
CLEANOUT DETAIL
(N.T.S.)



TYPICAL PVC PIPE
SEWER SERVICE CONNECTION
NOT TO SCALE

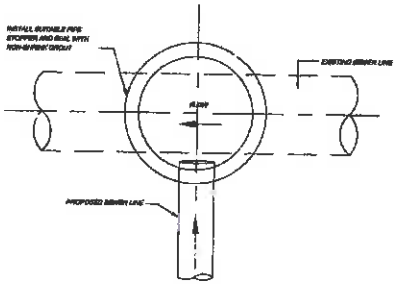


WATER GATE VALVE/SERVICE CURB STOP
(N.T.S.)

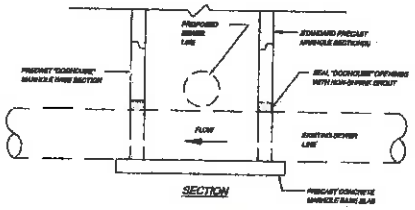


NOTES:
1. POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL. NO JOINTS SHALL BE COVERED WITH CONCRETE.
2. ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF FITTING.
3. PLACE BOARD IN FRONT OF ALL PLUGS BEFORE POURING THRUST BLOCKS.
4. WHERE ALL PIPE IS LOST, ALL PLUG WITH RETAINER GLAND MAY BE SUBSTITUTED FOR END BLOCKING.

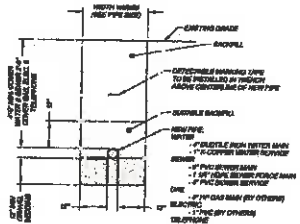
THRUST BLOCKING DETAIL
(N.T.S.)



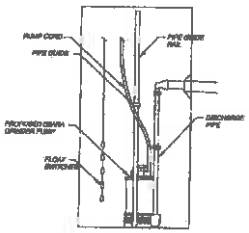
PLAN



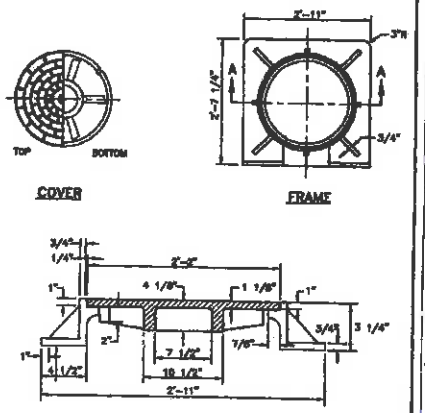
DOGHOUSE SEWER MANHOLE DETAIL
(N.T.S.)



TRENCH DETAIL
(N.T.S.)



PUMP STATION DETAIL
N.T.S.



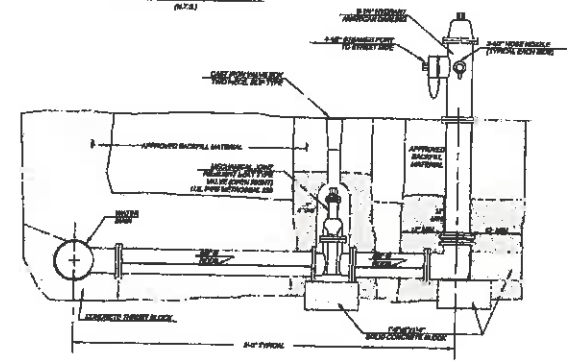
NOTES:
1. FRAME AND COVER SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
2. FRAME AND COVER SEATS TO BE MACHINE FINISH.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE

HEAVY-DUTY
SQUARE FRAME AND ROUND COVER

R.I. STANDARD M.1.1



TYPICAL HYDRANT DETAILS
(N.T.S.)

* SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

L. ROBERT BOTTI
No. 3635
PROFESSIONAL ENGINEER
PROVIDENCE, RHODE ISLAND

NO.	DATE	REVISION	CHECKED BY
2	2/26/14	MODIFIED PER CRMC REVIEW COMMENTS	RBL
1	2/14/14	OFFSET MODIFIED, DOH PER CLIENT'S REQUEST	RBL

DETAIL PLAN 2
A.P. 30, LOT 308
HOWARD ROAD
BARRINGTON, RHODE ISLAND

ALFRED ALMEIDA
159 LINCOLN AVENUE
BARRINGTON, RHODE ISLAND 02806

PROJECT NO.	14-180
SCALE	AS NOTED
DATE	02/25/13
DRAWN BY	RBL
CHECKED BY	LBG
SHEET	C-9.2

Waterman ENGINEERING COMPANY

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STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Environmental Management
Office of Water Resources

Site Evaluation Form
Part A - Soil Profile Description Application Number: Drainage

Property Owner: Alfred Almeida
Property Location: Stevens Road, AP 30 Lot 308, Barrington
Date of Test Hole: November 18, 2014
Soil Evaluator: Kevin Parker — License Number: D-0029
Weather: Pdy Sunny — Shallow Well ☐ Well ☒ — Time: 0900

TH 1 Horizon	Depth	Horizon Boundaries Dist	Horizon Boundaries Topo	Soil Colors Matrix	Soil Colors Mottles Features	Other Features Abs. & Dist.	Texture	Structure	Consistence	Soil Category
Ap	0 - 12	c	s	10YR 3/2			sl	1 sbk f	fr	3
Bw	12 - 22	c	s	10YR 5/6			sl	1 sbk f	fr	3
C	22-60	c	s	2.5Y 5/4			s	0 - sg	loose	1
C_1	60-66	c	s	2.5Y 5/4	10YR 4/6 7.5YR 4/6	c - m - p c - m - p	s	0 - sg	loose	1
2C	66-108			5Y 3/1			gls	0 - m	fi	6m

TH 2 Horizon	Depth	Horizon Boundaries Dist	Horizon Boundaries Topo	Soil Colors Matrix	Soil Colors Mottles Features	Other Features Abs. & Dist.	Texture	Structure	Consistence	Soil Category
Ap	0 - 6	c	s	10YR 3/2		.	sl	1 sbk f	fr	3
Bw	6 - 12	c	s	10YR 4/6			sl	1 sbk f	vfr	3
C	12 - 24	c	s	2.5Y 5/4			s	0 - sg	loose	1
C	24-96			2.5Y 5/4	7.5YR 4/6 10YR 6/6	c - m - p m - c - d	gs	0 - sg	loose	1m

Soil Class: Sandy-Coarse/Loamy-sand
Depth to Groundwater Seepage: 72" - 48"
Estimated Seasonal High Water Table: 60" - 24"
Outlook material with stripes under features evident
Total Depth of each Test Hole: 108" - 96"
Depth to Impervious or Limiting Layer:
Comments: No ledge encountered.

Part B

Site Evaluation - to be completed by Class I or II Surveyor or Soil Evaluator
Please use the area below to locate:
1 Test holes
2 Approximate direction of due north
3 Offsets from test holes to fixed points such as street, utility pole, or other permanent, resistant object

Key
☒ Approximate location of test holes
Estimated gradient and direction of slope
Approximate direction of due north

1 Relief and Slope:
2 Presence of any watercourse, wetlands or surface water bodies, within 200 feet of test holes: YES☐ NO☐ If yes, locate on above sketch
3 Presence of existing or proposed private drinking water wells within 200 feet of test holes: YES☐ NO☐ If yes, locate on above sketch
4 Public drinking water wells within 500 feet of test holes: YES☐ NO☐ If yes, locate on above sketch
5 In site within the watershed of a public drinking water reservoir or other critical area defined in GD-SI-007: YES☐ NO☐
6 Has soil been excavated from or fill deposited on site? YES☐ NO☐ If yes, locate on above sketch
7 Site's potential for flooding or ponding: NONE☐ SLIGHT☐ MODERATE☐ SEVERE☐
8 Landscape position:
9 Vegetation:
10 Indicate approximate location of property lines and roadways
11 Additional comments, site constraints or additional information regarding site:

Certification
The undersigned hereby certifies that all information on this application and accompanying forms, schedule and sketches are true and accurate and that I have been authorized by the owner(s) to conduct those necessary field investigations and make site visits as required.

Print & Signature: Print & Signature:

FOR OFFICE USE ONLY
Division: Approved ☐ Disapproved ☐
Comments:
Signature Authorized Agent: Date:

revised 5/8/01

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Environmental Management
Office of Water Resources

Site Evaluation Form
Part A - Soil Profile Description Application Number: Drainage

Property Owner: Alfred Almeida
Property Location: Stevens Road, AP 30 Lot 308, Barrington
Date of Test Hole: November 18, 2014
Soil Evaluator: Kevin Parker — License Number: D-0029
Weather: Pdy Sunny — Shallow Well ☐ Well ☒ — Time: 0900

TH 3 Horizon	Depth	Horizon Boundaries Dist	Horizon Boundaries Topo	Soil Colors Matrix	Soil Colors Mottles Features	Other Features Abs. & Dist.	Texture	Structure	Consistence	Soil Category
Ap	0 - 9	c	s	10YR 3/2			sl	1 sbk f	fr	3
Bw	9 - 22	c	s	10YR 4/6			sl	1 sbk f	fr	3
C	22-80	c	s	2.5Y 5/3			gls	0 - m	fr	6m
$2C_1$	80-120			2.5Y 6/2	7.5YR 4/6	c - m - p	fs	0 - sg	loose	1

TH 4 Horizon	Depth	Horizon Boundaries Dist	Horizon Boundaries Topo	Soil Colors Matrix	Soil Colors Mottles Features	Other Features Abs. & Dist.	Texture	Structure	Consistence	Soil Category

Soil Class: Sandy-Coarse/Loamy-sand
Depth to Groundwater Seepage:
Estimated Seasonal High Water Table: 60"
Outlook material with stripes under features evident
Total Depth of each Test Hole: 120"
Depth to Impervious or Limiting Layer:
Comments: No ledge encountered.

Part B

Site Evaluation - to be completed by Class I or II Surveyor or Soil Evaluator
Please use the area below to locate:
1 Test holes
2 Approximate direction of due north
3 Offsets from test holes to fixed points such as street, utility pole, or other permanent, resistant object

Key
☒ Approximate location of test holes
Estimated gradient and direction of slope
Approximate direction of due north

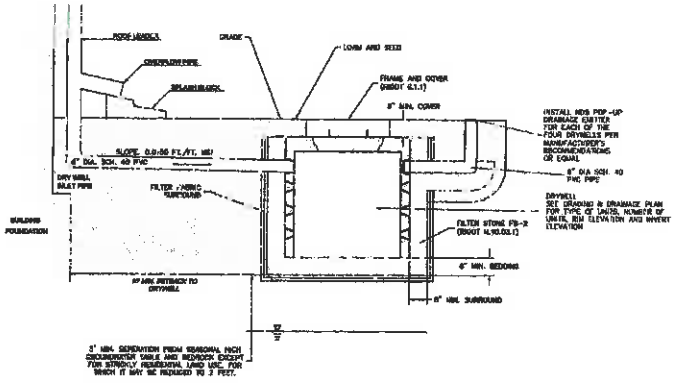
1 Relief and Slope:
2 Presence of any watercourse, wetlands or surface water bodies, within 200 feet of test holes: YES☐ NO☐ If yes, locate on above sketch
3 Presence of existing or proposed private drinking water wells within 200 feet of test holes: YES☐ NO☐ If yes, locate on above sketch
4 Public drinking water wells within 500 feet of test holes: YES☐ NO☐ If yes, locate on above sketch
5 In site within the watershed of a public drinking water reservoir or other critical area defined in GD-SI-007: YES☐ NO☐
6 Has soil been excavated from or fill deposited on site? YES☐ NO☐ If yes, locate on above sketch
7 Site's potential for flooding or ponding: NONE☐ SLIGHT☐ MODERATE☐ SEVERE☐
8 Landscape position:
9 Vegetation:
10 Indicate approximate location of property lines and roadways
11 Additional comments, site constraints or additional information regarding site:

Certification
The undersigned hereby certifies that all information on this application and accompanying forms, schedule and sketches are true and accurate and that I have been authorized by the owner(s) to conduct those necessary field investigations and make site visits as required.

Print & Signature: Print & Signature:

FOR OFFICE USE ONLY
Division: Approved ☐ Disapproved ☐
Comments:
Signature Authorized Agent: Date:

revised 5/8/01



ROOF LEADER / DRYWELL DETAIL
N.T.S.

** SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

NO.	DATE	REVISION	CHECKED BY
2	3/18/15	MODIFIED PER DRAFT SUBMITTAL COMMENTS	RGL
1	2/11/2015	DESIGN MODIFICATION PER CLIENT'S REQUEST	RGL

DETAIL PLAN 3
A.P. 30, LOT 308
HOWARD ROAD
BARRINGTON, RHODE ISLAND

Project No. 14-180
Date: AS NOTED
Scale: 11/12/14
Drawn by: MM
Checked by: LBR
Filename: 14-180_Site Evaluation.dwg
Sheet: C-9.3

ALFRED ALMEIDA
185 LINCOLN AVENUE
BARRINGTON, RHODE ISLAND 02806

Waterman ENGINEERING COMPANY
46 Waterman Avenue
R.I. # Providence, RI
Phone: 401-434-1
Fax: 401-434-2
Web Site: www.watermanengineering.com
Professional Engineers - R.I. 1992

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