

**NOTES FOR TREE CUTTING**

(PROVIDED BY NATURAL RESOURCE SERVICES, INC.)

1. THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (DEM) SHALL BE NOTIFIED OF THE START OF THE TREE CUTTING AT LEAST 48 HOURS PRIOR TO COMMENCEMENT.
2. EACH TREE THAT SHALL BE CUT SHALL BE PROPERLY IDENTIFIED PRIOR TO COMMENCEMENT. A RHODE ISLAND LICENSED ARBORIST SHALL MARK EVERY TREE AND OVERSEE THE CUTTING.
3. A SMALL CRANE OR AERIAL BUCKET TRUCK SHALL BE UTILIZED IN THE TREE CUTTING. A TREE CLIMBER SHALL SECTION THE TOP OF EACH TREE ALLOWING THE CRANE TO LIFT AND REMOVE THE SECTION TO THE STAGING AREA. ALL OF THE LARGE SECTIONS SHALL BE CUT UP IN THE IDENTIFIED STAGING AREA.
4. UNDER NO CIRCUMSTANCES SHALL ANY TREE BE CUT AND DROPPED ONTO EXISTING GROUND. THE TREE CUTTING SHALL BE CUT, LIFT AND TRANSFER TO STAGING AREA ONLY.
5. ALL TREES SHALL BE CUT AS CLOSE TO NATURAL GRADE AS POSSIBLE. ANY SLASH FROM BRANCHES SHALL BE MANUALLY CARRIED TO THE STAGING AREA.
6. UPON PROJECT COMPLETION, ALL WOODY DEBRIS SHALL BE REMOVED FROM THE STAGING AREA AND DISPOSED OF PROPERLY.

**NOTES FOR SHRUB PLANTING**

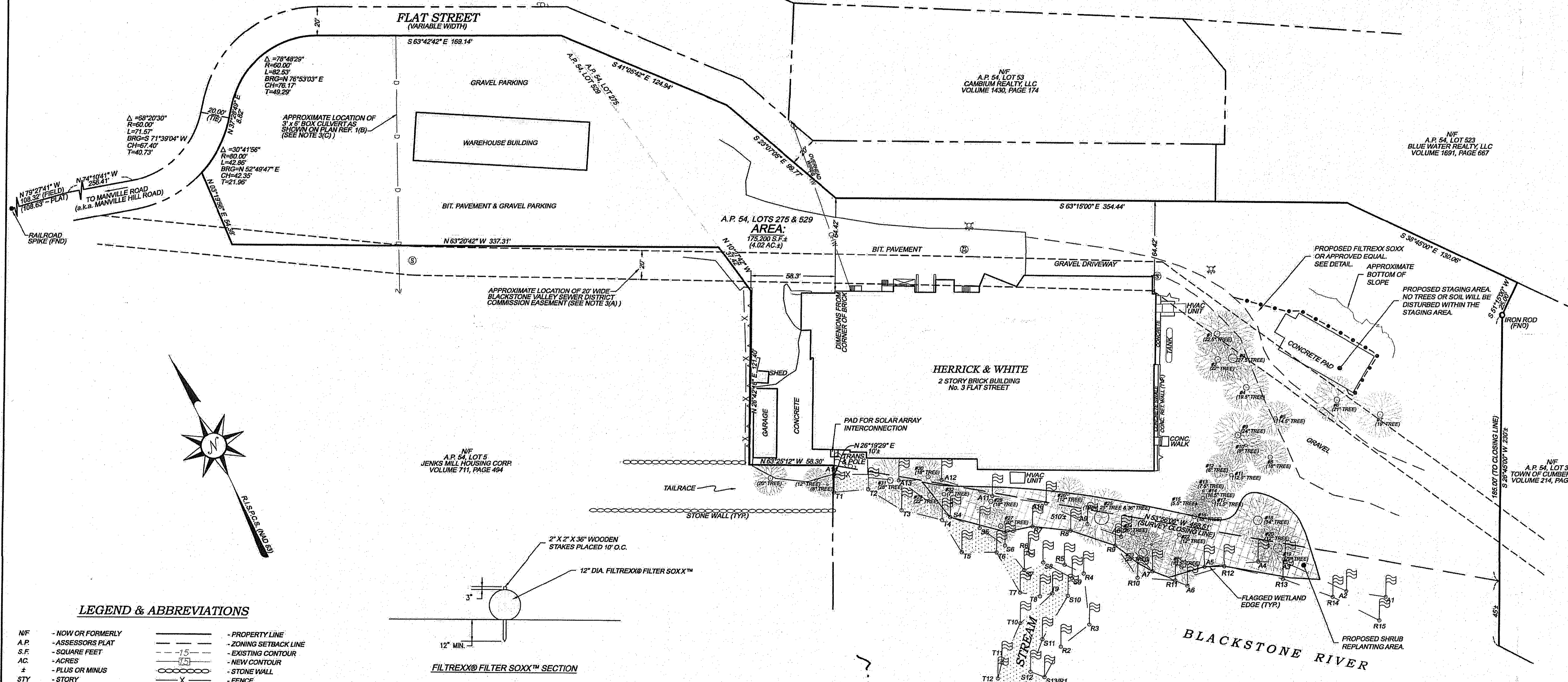
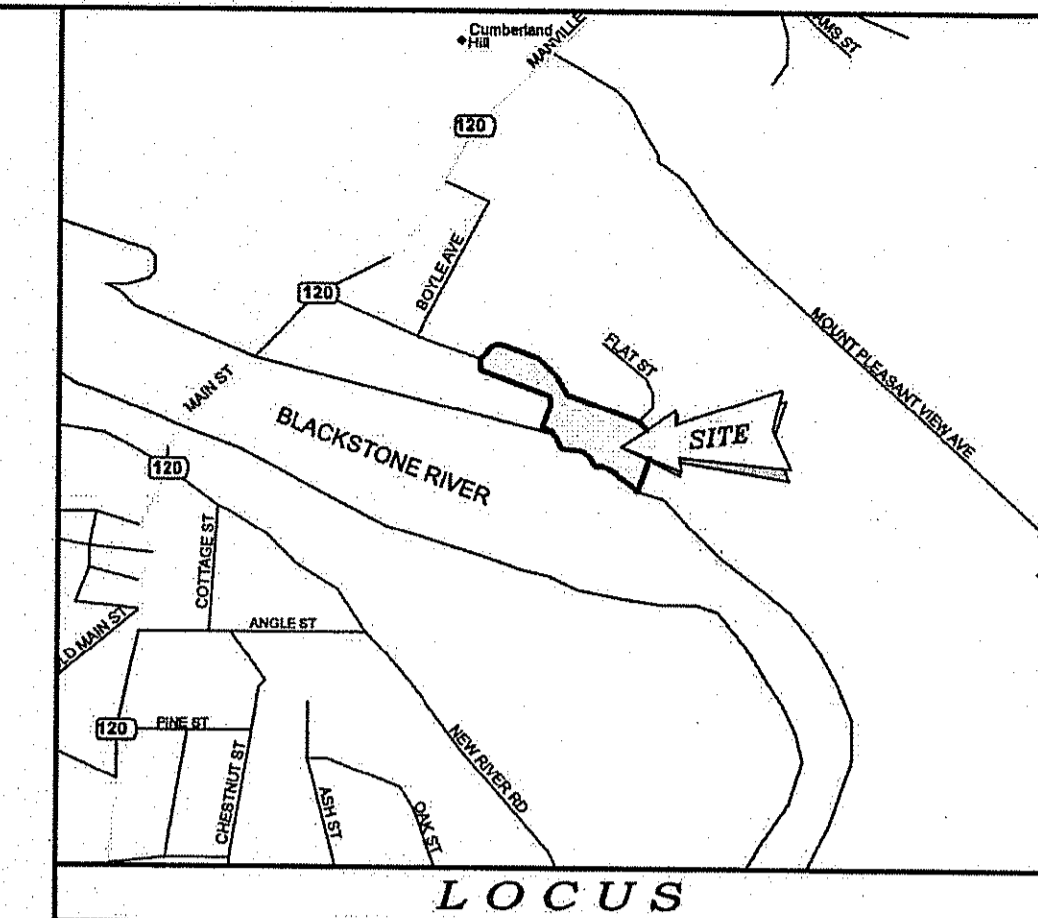
(PROVIDED BY NATURAL RESOURCE SERVICES, INC.)

- SHRUB PLANTING AREA
1. UPON COMPLETION OF THE TREE CUTTING, THE IDENTIFIED SHRUB PLANTING AREA SHALL BE MARKED BY THE ARBORIST.
  2. THESE AREAS SHALL BE PLANTED WITH THE FOLLOWING:
    - A) SWEET PEPPERBUSH (CLETHRAL ALNIFOLIA) - 15
    - B) ARROWWOOD (VIBURNUM DENTATUM) - 15
    - C) SPECKLED ALDER (ALNUS RUGOSA) - 15
    - D) HIGHLAND BLUEBERRY (VACCINIUM CORYMBOSUM) - 15
    - E) ROSEBAY RHODODENDRON (RHODODENDROM MAXIMUM) - 25
  3. ALL SHRUBS SHALL BE 24-36 INCHES HIGH AFTER PLANTING. SPACING SHALL BE 5 FEET ON-CENTER. RHODODENDROMS SHALL BE 36-48 INCHES HIGH AFTER PLANTING AND SPACED 5 FEET ON-CENTER.
  4. ALL PLANTS SHALL BE WATERED AS NEEDED DURING THE FIRST GROWING SEASON TO ENSURE SURVIVAL.
  5. ANY PLANTS NOT SURVIVING AT LEAST ONE YEAR SHALL BE REPLACED IN KIND.
  6. THE SHRUB REPLANTING AREA SHALL BE ALLOWED TO REVERT BACK TO A WILD AND NATURAL CONDITION.
  7. THE OWNER SHALL RESERVE THE RIGHT TO TRIM ANY VEGETATION IN THE SHRUB PLANTING AREA WHICH GROWS ABOVE 15 FEET. THE 15 FOOT HEIGHT LIMIT SHALL BE MAINTAINED FOR THE LIFE OF THE SOLAR ARRAY.

**LIST OF EACH TREE SPECIMEN TO BE REMOVED**

(PROVIDED BY NATURAL RESOURCE SERVICES, INC.)

NUMBER	COMMON NAME	SCIENTIFIC NAME	DIAMETER @ BREAST HEIGHT, DBH (INCHES)
1	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	22.5"
2	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	22"
3	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	27.5"
4	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	18.5"
5	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	14.5"
6	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	21"
7	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	19"
8	WHITE ASH	FRAXINUS AMERICANA	16"
9	WHITE ASH	FRAXINUS AMERICANA	24"
10	WHITE ASH	FRAXINUS AMERICANA	8"
11	NORWAY MAPLE	ACER PLATANOIDES	12.5"
12	NORWAY MAPLE	ACER PLATANOIDES	6"
13	BLACK OAK	QUERCUS VELITINA	7.5"
14	BLACK OAK	QUERCUS VELITINA	16.5"
15	AMERICAN BEECH	FAGUS GRANDIFOLIA	5.5"
16	BLACK OAK	QUERCUS VELITINA	16"
17	AMERICAN BEECH	FAGUS GRANDIFOLIA	11.5"
18	AMERICAN BEECH	FAGUS GRANDIFOLIA	34"
19	BLACK OAK	QUERCUS VELITINA	72"
20	ASH	FRAXINUS SPP.	12"
21	CATALPA	CATALPA	13.5"
22	WHITE ASH	FRAXINUS AMERICANA	12"
23	CATALPA	CATALPA	29"
24	SLEPPY ELM	ULMUS RUBRA	26"
25	BLACK WILLOW (2 STEMS)	SALIX NIGRA	25" & 36"
26	WHITE PINE	PINUS STROBUS	12"
27	ASH	FRAXINUS SPP.	20"
28	ASH	FRAXINUS SPP.	18"
29	BIG-TOOTHED ASPEN	POPULUS GRANDIDENTATA	22"
30	BIG-TOOTHED ASPEN	POPULUS GRANDIDENTATA	18"
31	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	28"



**NOTES / REFERENCES**

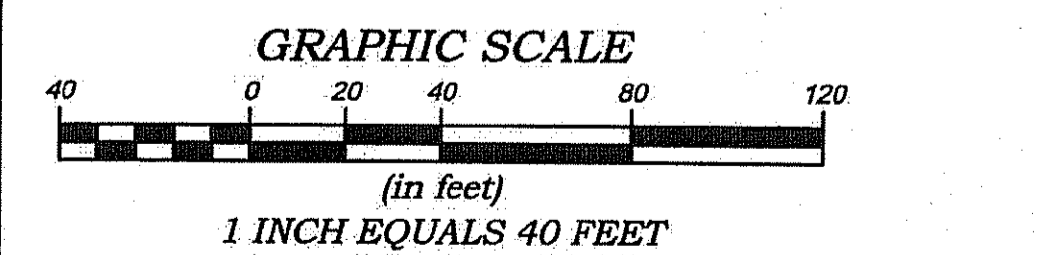
1. REFERENCE IS MADE TO THE FOLLOWING MAPS AND PLANS OF RECORD:
  - A) PLAN ENTITLED "CUMBERLAND, R.I. ADMINISTRATIVE SUBDIVISION FOR ARG REALTY, LLC, COBBLE HILL DEVELOPMENT, LLC AND HERRICK & WHITE LTD. CLASS 1 SURVEY OF AP 54, LOT 523 & OF PORTIONS BEING CONVEYED TO AP 54, LOT 523, CLASS IV SURVEY OF THE REMAINDER OF AP 54, LOTS 53 & 275 ALBION ROAD & FLAT STREET BY MARSH SURVEYING, INC. OCTOBER 7, 2005, REVISED 10/26/06"
  - B) PLAN ENTITLED "PLAN OF SURVEY IN CUMBERLAND, RHODE ISLAND FOR H & W REALTY PREPARED BY MARK W. HUTCHINS & ASSOCIATES, INC. JANUARY, 1988 SCALE: 1" = 60'."
  - C) PLAN ENTITLED "BLACKSTONE VALLEY SEWER DISTRICT COMMISSION, EAST PROVIDENCE, RHODE ISLAND, FLAT No. 103A BY WATERMAN ENGINEERING COMPANY, DRAWN OCTOBER 1988, AMENDED JANUARY, 1970, SCALE: 1" = 80'."
  - D) PLAN ENTITLED "MAP OF LAND IN CUMBERLAND, R.I. BELONGING TO CUMBERVILLE CORPORATION BY WATERMAN ENG. CO. MAY, 1957 SCALE: 1" = 160'."
  - E) PLAN ENTITLED "MAP OF LAND IN CUMBERLAND, R.I. TO BE CONVEYED BY CRESCENT CORPORATION TO ATLANTIC WOOL COMBING CO. BY WATERMAN ENGINEERING CO. JAN. 1951 SCALE: 1" = 80'."
2. REFERENCE IS MADE TO THE FOLLOWING TOWN OF CUMBERLAND LAND EVIDENCE RECORDS REGARDING RECORDED TITLE TO THE PREMISES SURVEYED:
  - A) A.P. 54, LOTS 275 & 529 - CUMBERLAND REALTY, LLC - VOLUME 1430, PAGE 174
3. THESE PREMISES MAY BE SUBJECT TO THE FOLLOWING EASEMENTS, RIGHTS OF WAY OR AGREEMENTS OF RECORD:
  - A) 20' WIDE BLACKSTONE VALLEY SEWER DISTRICT COMMISSION EASEMENTS AS DESCRIBED IN VOLUME 221, PAGE 378 AND DELINEATED ON PLAN REF. 1(C).
  - B) RIGHTS AND RIGHTS OF OTHERS TO FLAT STREET. THE STATUS OF FLAT STREET IS UNKNOWN. MORE RESEARCH AND/OR A TITLE SEARCH AS TO THE STATUS OF FLAT STREET MAY BE NEEDED TO ESTABLISH ANY OWNERSHIP / RIGHTS THE SUBJECT PROPERTY AND OTHERS MAY HAVE.
  - C) AN EASEMENT MAY EXIST REGARDING THE 3' x 6' BOX CULVERT AS DELINEATED ON PLAN REF. 1(B). (NO RECORDS FOUND)
4. THESE PREMISES ARE SITUATED IN AN 1-1 ZONE (LIGHT INDUSTRIAL WITH PUBLIC WATER & SEWER).
  - (THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT AND IS SUBJECT TO ANY UNKNOWN OR UNRECORDED EASEMENTS / AGREEMENTS A TITLE SEARCH MAY DISCLOSE.)
  - DIMENSIONAL REQUIREMENTS**
    - MIN. LOT AREA = 5,000 SQ. FT.
    - MIN. FRONTAGE/WIDTH = 25 FT.
    - MIN. S.B. FRONT YARD = 10 FT.
    - MIN. S.B. REAR YARD = 10 FT.
    - MIN. S.B. SIDE YARD = 10 FT.
    - MAX. STRUCTURE HEIGHT = 75 FT.
    - MAX. LOT COVERAGE = 80%
  - 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 "AE" (AREAS OF 1% ANNUAL CHANCE FLOOD...) AND ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 1% ANNUAL CHANCE FLOODPLAIN) AS DESIGNATED ON THE NATIONAL FLOOD INSURANCE PROGRAM FROM FLOOD INSURANCE RATE MAP PROVIDENCE COUNTY, RHODE ISLAND (ALL JURISDICTIONS) PANEL 177 OF 451 TOWN OF CUMBERLAND MAP NUMBER 44007C0177H EFFECTIVE DATE: MARCH 2, 2009. FEDERAL EMERGENCY MANAGEMENT AGENCY.
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 OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. PLEASE CONTACT D&S 72 HOURS PRIOR TO CONSTRUCTION AT PHONE NO. 1-888-DIG-SAFE AND/OR ALL LOCAL UTILITY COMPANIES.
7. ADDITIONAL IMPROVEMENTS MAY BE LOCATED ON THE SUBJECT PROPERTY, NOT SHOWN HEREON. THE PURPOSE OF THIS SURVEY IS TO DELINEATE THE LOCATION OF THE BOUNDARY AS SHOWN IN RELATION TO THE IMPROVEMENTS AND TREES DEPICTED HEREON.
8. WETLAND DELINEATION BY: NATURAL RESOURCE SERVICES, INC. P.O. BOX 311 - 180 TRINIDAD LANE HARRISVILLE, RHODE ISLAND 02880
- \*WETLAND FLAGS FIELD LOCATED BY WATERMAN ENGINEERING COMPANY.
9. ALL TREES IDENTIFIED FOR CUTTING FALL WITHIN THE PROPERTY BOUNDARY OF THE SUBJECT LOT.
10. ALL PROPOSED IMPROVEMENTS WITHIN THE 200 FT. RIVERBANK WETLANDS ASSOCIATED WITH THE WATERCOURSE ARE SHOWN.

**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
+	- 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
PED.	- PEDESTRIAN	G	- GAS LINE
(FND)	- FOUND	E	- ELECTRIC LINE
RHB	- RI HIGHWAY BOUND	S	- 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 10.80	- EXISTING SPOT GRADE	⊕	- GRANITE BOUND
x 10.80	- NEW SPOT GRADE	⊕	- DRILL HOLE
		⊕	- IRON PIPE



- 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 DISPERSED ON SITE AS DETERMINED BY ENGINEER.
- FILTREXX® FILTER SOXX™ DETAIL**  
(N.T.S.)



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**L. ROBERT SMITH**  
No. 3536  
REGISTERED PROFESSIONAL ENGINEER

**RICHARD S. LIPSITZ**  
No. 1837  
REGISTERED PROFESSIONAL LAND SURVEYOR

**CERTIFICATION**  
THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON JANUARY 1, 2016, AS FOLLOWS:  
TYPE OF BOUNDARY SURVEY: COMPREHENSIVE BOUNDARY SURVEY  
MEASUREMENT / ACCURACY SPECIFICATION: I  
OTHER TYPE OF SURVEY: DATA ACCUMULATION SURVEY III  
TOPOGRAPHIC SURVEY N/A

THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
DETERMINE THE LOCATION OF THE BOUNDARY FOR THE SUBJECT PROPERTY IN RELATION TO THE EXISTING IMPROVEMENTS, STAKEOUT THE BOUNDARY LINES AND PREPARE A PLAN SHOWING THE RESULTS OF THE SURVEY.

By: *[Signature]* 1837 3-29-18  
RICHARD S. LIPSITZ, P.L.S. REG. NO. DATE  
WATERMAN ENGINEERING COMPANY (COA No. LS.0004483)

APR 26 2018

OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
LETTER OF APPROVAL

NO.	DATE	REVISION	CHECKED BY

**SITE PLAN**  
A.P. 54, LOTS 275 & 529  
FLAT STREET  
CUMBERLAND, RHODE ISLAND

**HERRICK & WHITE**  
3 FLAT STREET  
CUMBERLAND, RHODE ISLAND 02864

**Waterman ENGINEERING COMPANY**  
Engineers & Surveyors - Est. 1894

46 Sutton Avenue  
East Providence, RI  
Phone: (401) 438-5775  
Fax: (401) 438-5773  
www.watermanengineering.net