

PA 9/16/15

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Depart. Health & Human Services
Div of Environmental Health, 11 SHS
(207) 287-5672 FAX (207) 287-3165

PROPERTY LOCATION

>> Caution: LPI APPROVAL REQUIRED <<

City, Town, or Plantation	Augusta
Street or Road	North Belfast Avenue
Subdivision, Lot #	M7/L38E

AUGUSTA PERMIT #7122
Date Permit Issued: 9/11/15

TOWN COPY
\$ ~~250.00~~ fee
15.00
LPI # 850

OWNER/APPLICANT INFORMATION

Name (last, first, MI)	Rocky's Stove Shoppe	<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant
Mailing Address of Owner/Applicant	2445 North Belfast Avenue Augusta, ME 04330	
Daytime Tel. #	(207) 622-3410	

Mary R. Young
Local Plumbing Inspector Signature

Owner/Applicant Statement

I state and acknowledge that the information submitted is correct to the best of my knowledge, that I have read and agree with the conditions on the back of this form, and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

I have inspected the installation authorized above and on back of this form and found it to be in compliance with the Subsurface Wastewater Disposal Rules and local ordinances.

Signature of Owner/Applicant	<i>[Signature]</i>	Date	9/15/15
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Local Plumbing Inspector Signature	<i>[Signature]</i>	(1 st) Date Approved	
		(2 nd) Date Approved	

PERMIT INFORMATION

TYPE OF APPLICATION 1. <input checked="" type="checkbox"/> First Time System 2. <input type="checkbox"/> Replacement System Type Replaced: _____ Year Installed: _____ 3. <input type="checkbox"/> Expanded System a. <input type="checkbox"/> Minor Expansion b. <input type="checkbox"/> Major Expansion 4. <input type="checkbox"/> Experimental System 5. <input type="checkbox"/> Seasonal Conversion	THIS APPLICATION REQUIRES 1. <input checked="" type="checkbox"/> No Rule Variance 2. <input type="checkbox"/> First Time System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 3. <input type="checkbox"/> Replacement System Variance a. <input type="checkbox"/> Local Plumbing Inspector approval b. <input type="checkbox"/> State & Local Plumbing Inspector approval 5. <input type="checkbox"/> Minimum Lot Size Variance 6. <input type="checkbox"/> Seasonal Conversion Variance	DISPOSAL SYSTEM COMPONENT(S) 1. <input checked="" type="checkbox"/> Complete non-Engineered System 2. <input type="checkbox"/> Primitive System (graywater & alt toilet) 3. <input type="checkbox"/> Alternative Toilet, specify: _____ 4. <input type="checkbox"/> Non-engineered Disposal Area 5. <input type="checkbox"/> Holding Tank, _____ gallons 6. <input type="checkbox"/> Non-engineered Disposal Field (only) 7. <input type="checkbox"/> Separated Laundry System 8. <input type="checkbox"/> Complete Engineered System (+2000 gpd) 9. <input type="checkbox"/> Engineered Treatment Tank (only) 10. <input type="checkbox"/> Engineered Disposal Field (only) 11. <input checked="" type="checkbox"/> Pre-treatment, specify: outlet filter on tank 12. <input type="checkbox"/> Miscellaneous components
SIZE OF PROPERTY _____ sq. ft. 60 <input checked="" type="checkbox"/> acres	DISPOSAL SYSTEM TO SERVE: 1. <input type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: _____ 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: _____ 3. <input checked="" type="checkbox"/> Other: stove shop Specify _____ Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped	TYPE OF WATER SUPPLY <input checked="" type="checkbox"/> Proposed 1. <input checked="" type="checkbox"/> Drilled Well 2. <input type="checkbox"/> Dug Well 3. <input type="checkbox"/> Private 4. <input type="checkbox"/> Public 5. <input type="checkbox"/> Other: _____

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON CROSS-SECTIONAL VIEW)

TREATMENT TANK <input checked="" type="checkbox"/> proposed 1. <input checked="" type="checkbox"/> Concrete <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Low Profile 2. <input type="checkbox"/> Plastic 3. <input type="checkbox"/> Other: _____ CAPACITY: 1,000 Gallons	DISPOSAL AREA TYPE/SIZE 1. <input type="checkbox"/> Stone Bed 2. <input type="checkbox"/> Stone Trench 3. <input checked="" type="checkbox"/> Proprietary Device <input type="checkbox"/> Cluster array <input checked="" type="checkbox"/> Linear <input checked="" type="checkbox"/> Regular load <input type="checkbox"/> H-20 load 4. <input type="checkbox"/> Other: _____ SIZE: 594 <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft.	GARBAGE DISPOSAL UNIT 1. <input checked="" type="checkbox"/> No 2. <input type="checkbox"/> Yes 3. <input type="checkbox"/> Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> Multi-compartment tank <input type="checkbox"/> _____ Tanks in series <input type="checkbox"/> Increase in tank capacity <input type="checkbox"/> Filter on tank outlet	DESIGN FLOW 180 gallons per day BASED ON: <input type="checkbox"/> 1. Table 4A (dwelling unit(s)) <input checked="" type="checkbox"/> 2. Table 4C (other facilities) SHOW CALCULATIONS for other facilities 15 employees at 12 gpd 3. <input type="checkbox"/> Section 4G (meter readings)
SOIL DATA & DESIGN CLASS PROFILE CONDITION 7 / D at Observation Hole # TP 1 Depth: 11" OF MOST LIMITING SOIL FACTOR	DISPOSAL FIELD SIZING 1. <input type="checkbox"/> Medium 2.6 sq. ft./gpd. 2. <input checked="" type="checkbox"/> Medium Large 3.3 sq. ft./gpd 3. <input type="checkbox"/> Large 4.1 sq. ft./gpd. 4. <input type="checkbox"/> Extra-Large 5.0 sq. ft./gpd.	EFFLUENT/EJECTOR PUMP 1. <input type="checkbox"/> Not required 2. <input type="checkbox"/> May be required 3. <input checked="" type="checkbox"/> Required >> Specify only for engineered systems Dose _____ Gallons	LATITUDE AND LONGITUDE at center of disposal area Lat. N 44 d 19 m 54.58 s Lon. W 69 d 43 m 29.07 s If g.p.s., state margin of error: _____

SITE EVALUATOR COMMENTS

System-3 lines of 30' long Enviro-Septic Pipe; 2-1/4' apart; designed for stove shop

SITE EVALUATOR STATEMENT

I Certify that on July 9, 2015 (date) I completed a site evaluation on this project and state that the data reported is accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241) as interpreted by me.

Kane P. Coffin
Kane P. Coffin, an agent of E.S. Coffin Engineering & Surveying, Inc.
E.S. Coffin Engineering & Surveying, Inc.
432 Cony Road P.O. Box 4687

SE #331
Licensed Site Evaluator
(207) 623-9475 or 1-800-244-9475
Augusta, Maine 04330-1687

July 10, 2015
Date
kcoffin@coffineng.com

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator
See back of this form for conditions of permit

ATTACHMENT FOR HHE-200 FORM

1. The OWNER/APPLICANT, by signing the front of this form, agrees to provide payment for services rendered as quoted and billed by COFFIN ENGINEERING & SURVEYING (CE&S). Payment on all billings are due within 30 days of billing date, otherwise a late charge of 1.5% per month (18% per year), simple interest, will be added to the total amount. In the event that any portion, or all of the final billing, remains unpaid for a period of 60 days, the OWNER/APPLICANT shall pay all costs of collection, including actual attorney's fees, court costs, CE&S's cost to collect bill. PLEASE NOTE THAT THE PERSON SIGNING THIS FORM UNDER OWNER/APPLICANT IS RESPONSIBLE FOR PAYMENT OF SERVICES AND SHOULD CONTACT CE&S IF HE/SHE HAS NOT RECEIVED A BILL.
2. All construction shall conform with Title 22 MRSA, §42, 10-144A CMR 241 "Maine-Subsurface Waste Water Disposal Rules," and all other pertinent sections. The OWNER/APPLICANT is responsible for the contractor installing the proposed septic system correctly and for obtaining all necessary permits. The OWNER/APPLICANT shall carefully examine all documents submitted by CE&S and promptly notify CE&S upon becoming aware of any defects. The OWNER/APPLICANT agrees to limit the liability of the site evaluator and/or CE&S to the amount of the total fee paid to CE&S and to a limit of five years from the date of this form. Visits to the site will be for information purposes only. CE&S will not be responsible for any site inspection duties.
3. This disposal system form shall not be transferable and becomes invalid if the authorized work has not commenced within two years after the issue date of the disposal system.
4. The OWNER/APPLICANT shall accurately describe the intended uses (present and future) for the system to the site evaluator. By signing the front of this form, the OWNER/APPLICANT agrees that the uses shown on said form is what was described to the site evaluator. Any change from the intended use described on this form requires a new design. Applicability of design must be reevaluated when location of structures are substantially different from those shown on the site plan or when other structures, additions, or appurtenances (i.e. swimming pools, garbage disposals) are considered.
5. The LPI shall inform the owner and designer of any local ordinance exceeding the Rules (Chapter 241) prior to issuing a permit, so that the application may be properly amended to conform to such ordinances.
6. The most recent revision of the Maine State Plumbing Code is hereby made a part of this HHE-200 Form and shall be consulted by the disposal system installer for further construction details, material specifications, cautions, and other related details pertinent to the installation of this disposal system.
7. This HHE-200 form is intended to represent facts pertinent to the Plumbing Code only. The owner/applicant must check local, state, and federal regulations before considering this an approvable site. All information shown on this form relating to property lines, structures, and subsurface structures (such as, but not limited to water lines, septic tanks, cess pools, cellar drains, utility lines, wells, leach fields, etc.) are noted, shown, or left off as not affecting the system based on information provided by the owner/applicant or his agent. The OWNER/APPLICANT acknowledges and understands that CE&S's submissions may represent imperfect data and may contain errors, omissions, conflicts, inconsistencies, code violations, and improper use of materials. Such deficiencies will be corrected when identified. The OWNER/APPLICANT agrees to carefully study and compare the submissions and report at once in writing to CE&S any deficiencies discovered. The OWNER/APPLICANT further agrees to require each contractor and/or subcontractor to likewise study the submissions and report at once any deficiencies discovered. It is the responsibility of the owner/applicant or his agent to confirm, BEFORE CONSTRUCTION BEGINS, the above and/or any other features which may affect (or be adversely affected by) the installation of this system.
8. When a gravity system is proposed, BEFORE CONSTRUCTION BEGINS, the disposal system installer and building contractor shall review the relative elevation of all points given in the this HHE-200 Form and the elevation of the existing or proposed building drain and septic tank openings for compatibility to the minimum code pitch requirements. Any questions that arise should be directed to the local plumbing inspector or designer. When a pump system is installed, provisions shall be made to keep the tank and lift station outlets above the high water table.
9. The Septic System Owner's Manual written by the designer is made a part of this HHE-200 Form and shall be consulted by the owner/applicant and disposal system installer for other facts pertinent to the installation and operation of this disposal system.
10. The OWNER/APPLICANT bears the responsibility to show the location of property lines, subsurface structures (such as, but not limited to water lines, septic tanks, cess pools, cellar drains, utility lines), and wells to the Site Evaluator. Actual property lines must be confirmed by a boundary survey. By signing the front of this form, the OWNER/APPLICANT agrees that the property lines and wells on the accompanying plan(s) are shown correctly and any discrepancy found in the future is the responsibility of the OWNER/APPLICANT.
11. The actual water flow or number of bedrooms shall not exceed the design criteria indicated on this HHE-200 Form without a re-evaluation of the system.
12. CE&S is not responsible for the actions of others, who affect the ultimate cost of the PROJECT; by vandalism, marker removal, changes in scope of work, approval agencies, redesign of septic system, etc. (OWNER/APPLICANT to be notified of any cost increase).
13. The laws of Maine will apply concerning the interpretation and performance of this AGREEMENT. If an item in this AGREEMENT is found to be in violation of any prevailing laws, it will not void the entire AGREEMENT. This AGREEMENT is superior and over-rides any Standard Subcontract Agreement signed by the parties involved in this AGREEMENT for this PROJECT when referenced in said Standard Subcontract Agreement.
14. CE&S is responsible for the actions of its' employees only. Insurance is provided for: vehicles, general liability, errors and omissions, and workman's comp. All other entities on the site are responsible for their own safety, work product, actions, conduct, etc.
15. CE&S is not responsible for any actual, alleged, or threatened, pollutant damage in regard to the services performed. Pollutants are defined as any environmentally threatening contaminants commonly regulated in this state.
16. In the event that the OWNER/APPLICANT hires subcontractors, workers, orders material, etc., and governs, directly or indirectly, the overall operation on the work site; then the OWNER/APPLICANT is deemed to be acting as his own general contractor, having the greater responsibility for the work site.
17. Other than the procedure of collections described above in (1), should the parties of this AGREEMENT have differences involving either the work site, or the PROJECT, that cannot be resolved between them; then the procedures of Alternate Dispute Resolution will be the only method of resolving those differences.

Town, City, Plantation
 Augusta

Street, Road, Subdivision
 North Belfast Road

Owner's Name
 Rocky's Stove Shop

SITE PLAN

Scale: 1" = ___ feet

TEXTURE TERMS

- Sand
- Loamy sand
- Sandy loam
- Loam
- Silt loam
- Silty clay loam
- Silty clay
- Bedrock

TEXTURE

- ABUNDANCE
- Very-38-80%
 - Extremely-81-90%

MODIFIER TERMS

- VF-very fine
- F-fine
- M-medium
- C-course
- ROCK
- Gravelly-0.1-3"
- Cobbly-3-10"
- Stony-+10"

MOTTLING

- CONTRAST
- Faint
 - Distinct
 - Prominent

- ABUNDANCE
- None
 - Few-<2%
 - Common-2-20%
 - Many->20%

CONSISTENCE

- TERMS
- Loose
 - Friable
 - Firm
 - Very Firm
 - Cemented

SOIL DESCRIPTION AND CLASSIFICATION

Observation Hole TP 1 Test Pit Boring
2 " Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling
fine sandy loam	Friable	Dark Brown	None
		Lt Olive Br	
silty clay loam	Firm	Olive	Common Distinct

DEPTH BELOW MINERAL SOIL (INCHES)

Soil Classification	Slope	Limiting Factor	<input checked="" type="checkbox"/> Ground Water
<u>7</u> <u>D</u>	<u>11</u> %	<u>11</u> "	<input type="checkbox"/> Restrictive Layer
Profile Condition			<input type="checkbox"/> Bedrock
			<input type="checkbox"/> Pit Depth

Observation Hole TP 2 Test Pit Boring
2 " Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling
fine sandy loam	Friable	Dk Brown	None
		Dk. Yel Brown	
		Yel Brown	
		Lt Olive Br	
silty clay loam	Firm	Olive	Common Distinct

DEPTH BELOW MINERAL SOIL (INCHES)

Soil Classification	Slope	Limiting Factor	<input checked="" type="checkbox"/> Ground Water
<u>7</u> <u>C</u>	<u>14</u> %	<u>15</u> "	<input type="checkbox"/> Restrictive Layer
Profile Condition			<input type="checkbox"/> Bedrock
			<input type="checkbox"/> Pit Depth

Site Evaluator's Signature Kane P. Coffin

SE # 331

Date: 07/10/15

HHE-200

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation
Augusta

Street, Road, Subdivision
North Belfast Avenue

Owner's Name
Rocky's Stove Shop

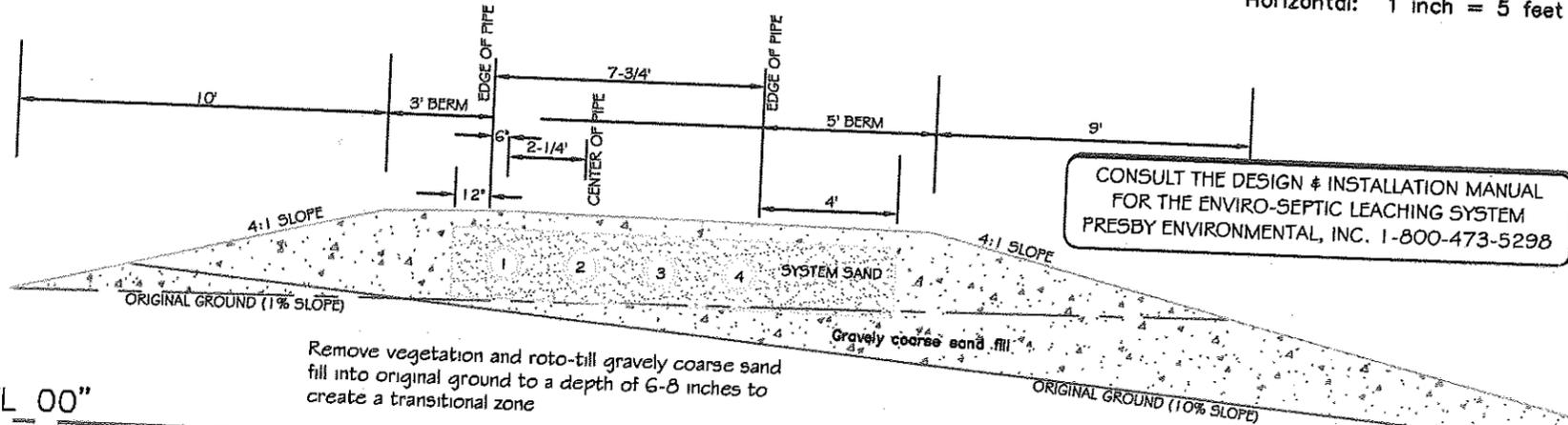
FILL REQUIREMENTS
Depth of Fill (Upslope) 31-34"
Depth of Fill (Downslope) 28-41"

CONSTRUCTION ELEVATIONS
Reference Elevation is 00"
Bottom of Disposal Area n/a
Top of Pipe n/a

ELEV. REF. PT:
chiseled "X" in boulder (painted)

SCALE:
Vertical: 1 inch = 5 feet
Horizontal: 1 inch = 5 feet

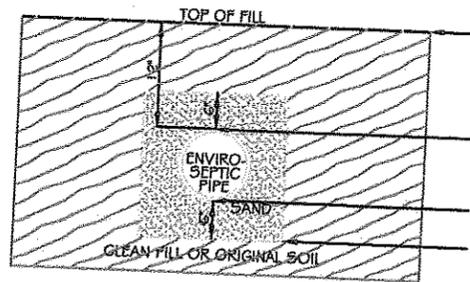
DISPOSAL AREA CROSS SECTION



E.R.P. EL 00"

INSTALL 4 LINES OF ENVIRO-SEPTIC PIPE (30' LONG),
2-1/4' APART CENTER- TO-CENTER.

INSTALL 6" OF MEDIUM TO COARSE SAND WITH AN EFFECTIVE PARTICLE SIZE OF 0.25 TO 2.0 MM, WITH NO GREATER THAN 5% PASSING A #200 SIEVE AND NO PARTICLES LARGER THAN 3/4" AROUND THE PIPE.



ELEVATIONS			
ROW 1	ROW 2	ROW 3	ROW 4
+79"	+79"	+78"	+78"
+67"	+67"	+66"	+66"
+55"	+55"	+54"	+54"
+49"	+49"	+48"	+48"

DETAIL (no scale)

Site Evaluator's Signature *Kane P. Coffin*

SE # 331

Date: 07/10/15

HHE-200

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. of Health & Human Services
Division of Environmental Health

(207) 287-5338
(207) 287-3165 (fax)

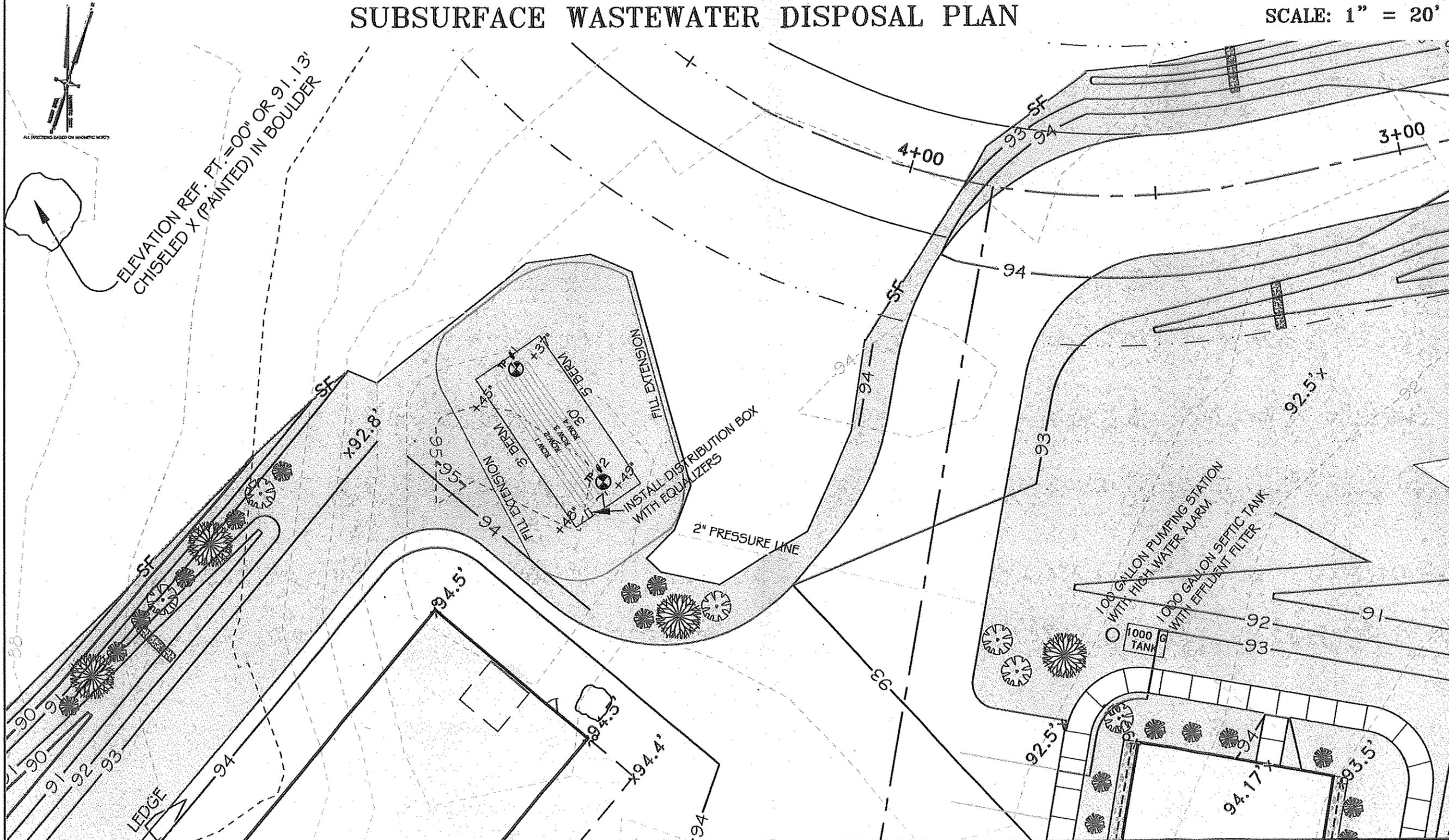
Town, City, Plantation
Augusta

Street, Road, Subdivision
North Belfast Avenue

Owner's Name
Rocky's Stove Shop

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 20'



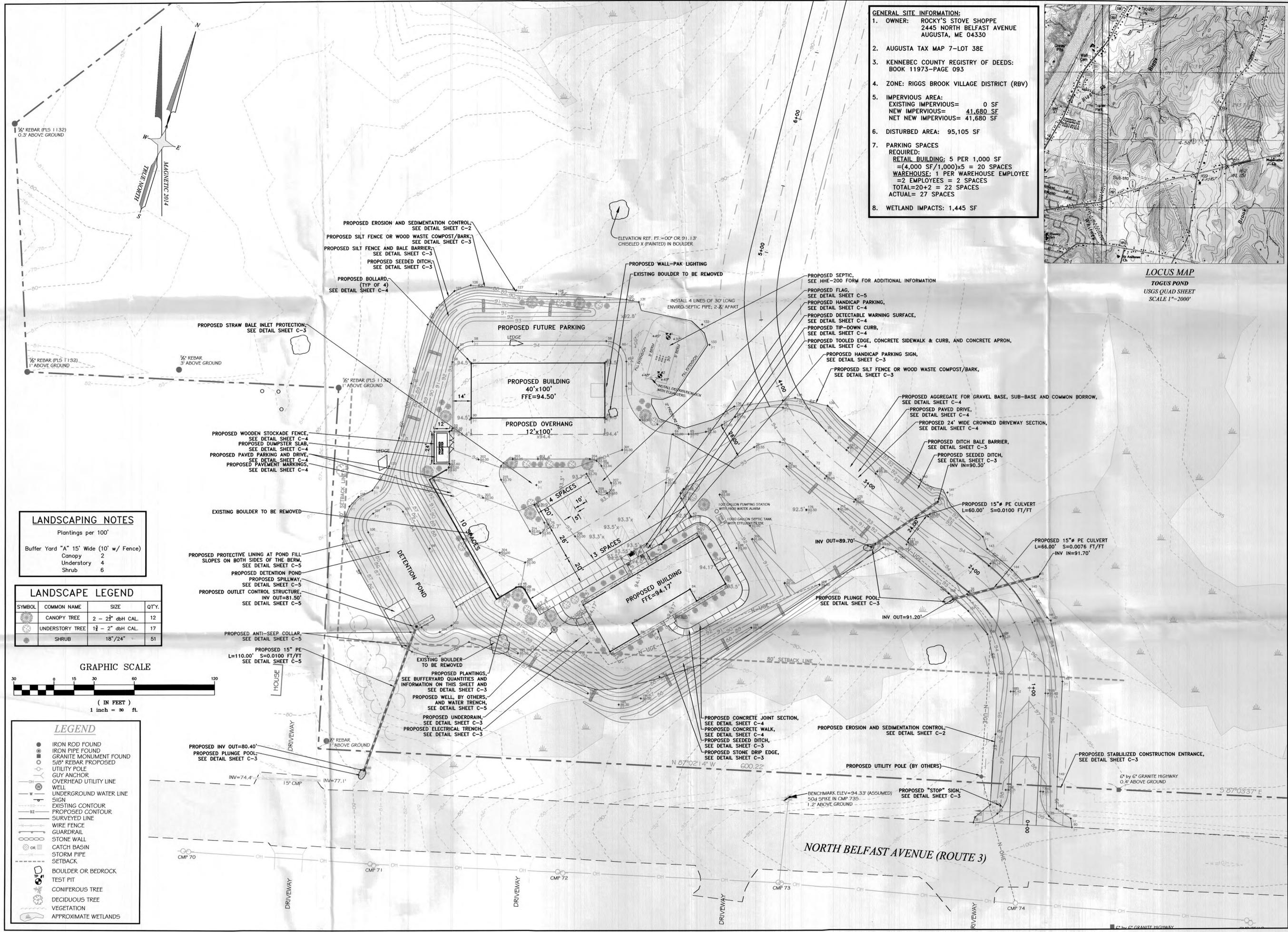
ELEVATION REFERENCE POINT	DESCRIPTION:	ELEVATION: 00'
	Chiseled 'x' in Boulder (painted)	
PLAN VIEW	SCALE: 1" = 20'	DATE: JULY 10, 2015
	PROJECT: ROCKY'S STOVE SHOPPE	
LOCATOR:	NORTH BELFAST AV.	
TOWN:	AUGUSTA	
COUNTY:	KENNEBEC	
STATE:	MAINE	
<p>ES COFFIN ENGINEERING & SURVEYING, INC. 132 Coffin Road, P.O. Box 467, Augusta, Maine 04330 Ph: (207) 533-9473 Fax: (207) 533-9478 EMail: Pco@es-c.com</p>		
PROJ. NO. 2010-555		

Site Evaluator's Signature: *Kane P. Coffin*

SE # 331

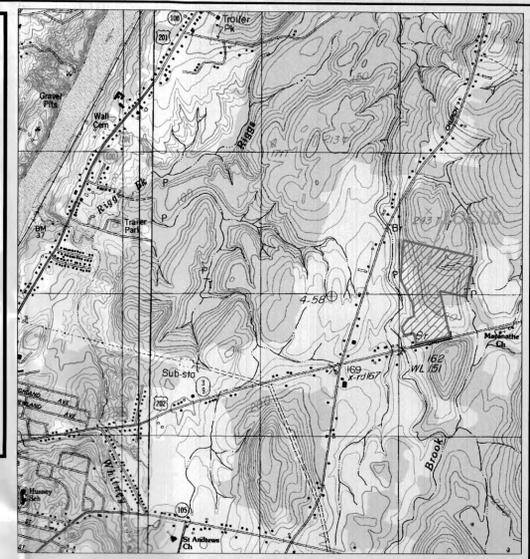
Date: 07/10/15

HHE-200



GENERAL SITE INFORMATION:

- OWNER: ROCKY'S STOVE SHOPPE
2445 NORTH BELFAST AVENUE
AUGUSTA, ME 04330
- AUGUSTA TAX MAP 7--LOT 38E
- KENNEBEC COUNTY REGISTRY OF DEEDS:
BOOK 11973--PAGE 093
- ZONE: RIGGS BROOK VILLAGE DISTRICT (RBV)
- IMPERVIOUS AREA:
EXISTING IMPERVIOUS= 0 SF
NEW IMPERVIOUS= 41,680 SF
NET NEW IMPERVIOUS= 41,680 SF
- DISTURBED AREA: 95,105 SF
- PARKING SPACES
REQUIRED:
RETAIL BUILDING: 5 PER 1,000 SF
=(4,000 SF/1,000)x5 = 20 SPACES
WAREHOUSE: 1 PER WAREHOUSE EMPLOYEE
=2 EMPLOYEES = 2 SPACES
TOTAL=20+2 = 22 SPACES
ACTUAL= 27 SPACES
- WETLAND IMPACTS: 1,445 SF



STATE OF MAINE
JAMES E. COFFIN
8500
PROFESSIONAL ENGINEER

E.S. COFFIN
ENGINEERING & SURVEYING, INC.
432 Camp Road P.O. Box 4687, Augusta, Maine 04330
Ph. (207) 623-9473 Fax (207) 623-0016 Toll Free 1-800-244-9475

LANDSCAPING NOTES

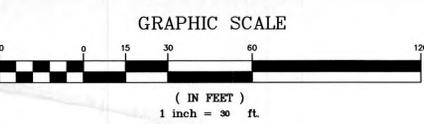
Plantings per 100'

Buffer Yard "A" 15' Wide (10' w/ Fence)

Canopy	2
Understory	4
Shrub	6

LANDSCAPE LEGEND

SYMBOL	COMMON NAME	SIZE	QTY.
(Tree symbol)	CANOPY TREE	2 - 24" dbH CAL.	12
(Tree symbol)	UNDERSTORY TREE	1 1/2 - 2" dbH CAL.	17
(Tree symbol)	SHRUB	18"/24"	51



LEGEND

- IRON ROD FOUND
- IRON PIPE FOUND
- GRANITE MONUMENT FOUND
- 5/8" REBAR PROPOSED
- UTILITY POLE
- GUY ANCHOR
- OVERHEAD UTILITY LINE
- WELL
- UNDERGROUND WATER LINE
- SIGN
- EXISTING CONTOUR
- PROPOSED CONTOUR
- SURVEYED LINE
- WIRE FENCE
- GUARDRAIL
- STONE WALL
- CATCH BASIN
- STORM PIPE
- SETBACK
- BOULDER OR BEDROCK
- TEST PIT
- CONIFEROUS TREE
- DECIDUOUS TREE
- VEGETATION
- APPROXIMATE WETLANDS

PROPOSED SITE PLAN

CLIENT PROJECT: PROPOSED BUILDING ROCKY'S STOVE SHOPPE

LOCATION: NORTH BELFAST AVENUE

TOWN: AUGUSTA COUNTY, KENNEBEC STATE: MAINE

PROJ. NO. 2015-052

SCALE: 1 INCH=30 FEET

DATE: JULY 10, 2015

DRAWN BY: TGH

CHECKED BY: JEC

NO.	REVISIONS	DATE
7	REGRADE PARKING LOT, ADD CURBING, SPOTS	09/08/15
6	REGRADE DITCH	09/04/15
5	ADD PLANTINGS PER PLANNING BOARD	08/26/15
4	ADD SIDEWALK	08/06/15
3	ADDED 14 SHRUBS AROUND RETAIL BUILDING	07/28/15
2	CHANGE GRAPHIC SCALE TO 1"=30'	07-22-15
1	REVISE IMPERVIOUS AREA & REGRADE	07-15-15

C-1