

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

PROPERTY LOCATION

City, Town, or Plantation	Augusta
Street or Road	Falcon & Iris Streets <i>Court</i>
Subdivision, Lot #	<i>Circle</i>

AUGUSTA PERMIT #6705
Date Permit Issued: *9/27/12*

15.00
TOWN COPY
\$ *150.00* fee

OWNER/APPLICANT INFORMATION

Name (last, first, MI)	Mainly Investments, LLC	Owner <input type="checkbox"/>	Applicant <input checked="" type="checkbox"/>
Mailing Address of Owner/Applicant	541 Riverside Drive Augusta, ME 04330		
Daytime Tel. #	<i>(207) 623-3726</i>		

Mary R. Fuller

LPI # *850*

Municipal Tax Map # 6 Lot # 45

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.

Neal Belton *9/26/12*
Signature of Owner/Applicant Date

Caution: Inspections Required

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.

(1st) Date Approved _____

Local Plumbing Inspector Signature _____

(2nd) Date Approved _____

PERMIT INFORMATION

TYPE OF APPLICATION 1. <input type="checkbox"/> First Time System 2. <input checked="" type="checkbox"/> Replacement System Type Replaced: <u>trench system</u> Year Installed: <u>unknown</u> 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 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 checked="" 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 type="checkbox"/> Complete non-Engineered System 2. <input type="checkbox"/> Primitive System (graywater & all 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 checked="" 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: <u>outlet filter on tank</u> 12. <input type="checkbox"/> Miscellaneous components
	DISPOSAL SYSTEM TO SERVE: 1. <input type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: <u>3</u> 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: _____ 3. <input checked="" type="checkbox"/> Other: <u>22 mobile homes</u> Specify _____ Current Use <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	
SIZE OF PROPERTY _____ sq. ft. 36 <input checked="" type="checkbox"/> acres	SHORELAND ZONING <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
TYPE OF WATER SUPPLY <input type="checkbox"/> Proposed 1. <input type="checkbox"/> Drilled Well 2. <input type="checkbox"/> Dug Well 3. <input type="checkbox"/> Private 4. <input checked="" type="checkbox"/> Public 5. <input type="checkbox"/> Other: _____		

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

TREATMENT TANK <input 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: 10,000 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: 6270 <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 1900 gallons per day BASED ON: <input type="checkbox"/> 1. Table 4A (dwelling unit(s)) <input type="checkbox"/> 2. Table 4C (other facilities) SHOW CALCULATIONS for other facilities 3. <input checked="" type="checkbox"/> Section 4G (meter readings)
SOIL DATA & DESIGN CLASS PROFILE <u>3</u> / <u>D</u> CONDITION _____ at Observation Hole # <u>TP 1</u> Depth: <u>9"</u> 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 checked="" type="checkbox"/> Not required 2. <input type="checkbox"/> May be required 3. <input type="checkbox"/> Required >> Specify only for engineered systems Dose _____ Gallons	LATITUDE AND LONGITUDE at center of disposal area Lat. N <u>44</u> d <u>20</u> m <u>56.79</u> s Lon. W <u>69</u> d <u>44</u> m <u>42.37</u> s If g.p.s., state margin of error: _____

SITE EVALUATOR COMMENTS

System-13 rows of 100' long Enviro-Septic Pipe, 2' pipe spacing (25' wide); Leach field designed for 22 mobile homes.

SITE EVALUATOR STATEMENT

I Certify that on September 21, 2012 (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.

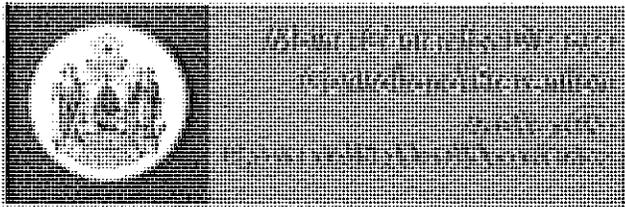
Kane P. Coffin
Kane P. Coffin, an agent of E.S. Coffin Engineering & Surveying, Inc.
E.S. Coffin Engineering & Surveying, Inc.
432 Cony Road P.O. Box 4687
Augusta, Maine 04330-1687

SE #331
Licensed Site Evaluator
(207) 623-9475 or 1-800-244-9475

September 24, 2012
Date
kcoffin@coffineng.com

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.



Department of Health and Human Services
 Maine Center for Disease Control and Prevention
 286 Water Street
 # 11 State House Station
 Augusta, Maine 04333-0011
 Tel: (207) 287-5672
 Fax: (207) 287-4172; TTY: 1-800-606-0215

SUBSURFACE WASTEWATER DISPOSAL SYSTEM VARIANCE REQUEST

This form must accompany an application (HHE-200 Form) for any subsurface wastewater disposal system which requires a variance to provisions of the Subsurface Wastewater Disposal Rules. The Local Plumbing Inspector must not issue a permit for the installation of a subsurface wastewater disposal system requiring a variance from the Department of Health and Human Services until approval has been received from the Department.

GENERAL INFORMATION	Town of <u>Augusta</u>
Property Owner's Name: <u>Mainly Investments, LLC</u>	Tel. No.: <u>623-3726</u>
System's Location: <u>Southerly of Falcon Street</u>	
Property Owner's Address: <u>541 Riverside Drive, Augusta, ME</u>	Zip Code <u>04330</u>
e-mail address: _____	

The subsurface wastewater disposal system design for the subject property requires a replacement system variance first time system variance to the Subsurface Wastewater Disposal Rules. This variance requires local approval local and state approval.

SPECIFIC VARIANCE REQUESTED (To be filled in by Site Evaluator. Use additional sheets if needed.)	SECTION OF RULE
1. <u>Fill extension slope of 3:1</u>	<u>Section 8-D-c</u>
2. _____	_____
3. _____	_____

SITE EVALUATOR

When a property is found to be unsuitable for subsurface wastewater disposal by a licensed Site Evaluator, the Evaluator shall so inform the property owner. If the property owner, after exploring all other alternatives, wishes to request a variance to the Rules, and the Evaluator in his professional opinion feels the variance request is justified and the site limitations can be overcome, he shall document the soil and site conditions on the Application. The Evaluator shall list the specific variances necessary plus describe below the proposed system design and function. The Evaluator shall further describe how the specific site limitations are to be overcome, and provide any other support documentation as required prior to consideration by the Department. Attach a separate sheet if necessary.

The proposed leach field is located at the best soils on the parcel near the septic tank. The proposed leach field will be separated from the ground water by 18" of fill.

I, Kane P. Coffin, S.E., certify that a variance to the Rules is necessary since a system cannot be installed which will completely satisfy all the Rule requirements. In my judgment, the proposed system design on the attached Application is the best alternative available; enhances the potential of the site for subsurface wastewater disposal; and that the system should function properly.

Kane P. Coffin

 SIGNATURE OF SITE EVALUATOR

September 24, 2012

 DATE

PROPERTY OWNER

I, _____, am the owner agent for the owner of the subject property. I understand that the installation on the Application is not in total compliance with the Rules. Should the proposed system malfunction, I release all concerned provided they have performed their duties in a reasonable and proper manner, and I will promptly notify the Local Plumbing Inspector and make any corrections required by the Rules. By signing the variance request form, I acknowledge permission for representatives of the Department to enter onto the property to perform such duties as may be necessary to evaluate the variance request.

Nema B. Buse

 SIGNATURE OF OWNER

SIGNATURE OF OWNER
 AGENT FOR THE OWNER

9/25/12

 DATE

LOCAL PLUMBING INSPECTOR - Approval at local level

The local plumbing inspector shall review all variance requests prior to rendering a decision.

I, _____, the undersigned, have visited the above property and find that the variance request submitted by the applicant does not conform with certain provisions of the wastewater disposal rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property. The proposed system (does does not) conflict with any provisions controlling subsurface wastewater disposal in the shoreland zone. Therefore, I (do do not) approve the requested variance. I (will will not) issue a permit for the system's installation as proposed by the application.

LPI Signature

Date

LOCAL PLUMBING INSPECTOR - Referral to the Department

The local plumbing inspector shall review all variance requests prior to forwarding to the Division of Environmental Health.

I, _____, the undersigned, have visited the above property and find that the variance request submitted by the applicant does not conform with certain provisions of the wastewater disposal rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property. The proposed system (does does not) conflict with any provisions controlling subsurface wastewater disposal in the shoreland zone. Therefore, I (do do not) recommend the issuance of a permit for the system's installation as proposed by the application.

LPI Signature

Date

FOR USE BY THE DEPARTMENT ONLY

The Department has reviewed the variance(s) and (does does not) give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

SIGNATURE OF THE DEPARTMENT

DATE

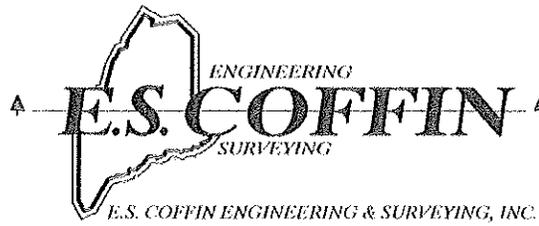
- Notes: 1. Variances for soil conditions may be approved at the local level as long as the total point assessment is at least the minimum allowed. (See Section 7.B.4 of the Subsurface Wastewater Disposal Rules for Municipal Review.)
2. Variances for other than soil conditions or soil conditions beyond the limit of the LPI's authority are to be submitted to the Department for review. (See Section 7.B.3 for Department Review.) The LPI's signature is required on these variance requests prior to sending them to the Department.

SOIL, SITE AND ENGINEERING FACTORS FOR FIRST TIME SYSTEM VARIANCE ASSESSMENT WITH LIMITING SOIL DRAINAGE CONDITIONS (SEE TABLES 7C THROUGH 7M).

	CHARACTERISTIC	POINT ASSESSMENT
Soil Profile		
Depth to Groundwater/Restrictive Layer		
Terrain		
Size of Property		
Waterbody Setback		
Water Supply		
Type of Development		
Disposal Area Adjustment		
Vertical Separation Distance		
Additional Treatment		
TOTAL POINT ASSESSMENT:		

Minimum Points (Check One): Outside Shoreland Zone-50 Inside Shoreland Zone-65 Subdivision-65

432 Cony Road
P.O. Box 4687
Augusta, ME 04330



(207) 623-9475
Fax (207) 623-0016
1-800-244-9475

**TO ACCOMPANY THE HHE-200 FORM FOR THE MAINLY
INVESTMENTS, LLC PROPERTY (KNOWN AS THE AUGUSTA MOBILE
HOME PARK) IN THE CITY OF AUGUSTA**
Specifically the mobile homes along Falcon Street & Iris Street

Existing

The current septic system serves 22 mobile homes located on Falcon Street and Iris Street off Blair Road. The septic waste flows into a 10,000 gallon septic tank and then the effluent goes to a leach field, which is failing, located southerly of Monarch Drive. Eight of the mobile homes sites are currently vacant and shown as dashed lines on the overall septic system plan.

Water usage

Water meter readings are taken every 30 days and shown from May of 2008 through July of 2012 (included). The readings are in units measuring 750 gallons and were calculated by using the beginning and ending units and showing the days covered. Two of the mobile homes (shown in red) were given a 48 average gallon per day (gpd) because the readings were nonexistent or were abnormally low. The 90th percentile gpd was calculated at 1826 gallons per day (1900 gpd was used).

Proposed septic system

The replacement disposal area is to be comprised of 13 lines of 100 feet long Enviro-Septic pipe (2 feet apart center-to-center) located southerly of Falcon Street.

Respectfully submitted,

A handwritten signature in cursive script that reads "Kane P. Coffin".

Kane P. Coffin, SE 331

	7/12	6/12	5/12	4/12	3/12	2/12	1/12	12/11	11/11	10/11	9/11	8/11	7/11	6/11	5/11	4/11	3/11	2/11	1/11	12/10	11/10	10/10	9/10	8/10
7 Falcon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 Falcon	100	99	98	98	97	97	97	85	84	84	83	82	81	80	79	79	78	77	77	76	76	75	74	73
14 Falcon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	57	56	56	55	55	54	54	53	52
15 Falcon	137	133	129	124	120	116	113	110	108	105	102	97	93	89	85	81	77	74	69	67	65	61	58	55
16 Falcon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Falcon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	236	236	236	236	236	236	236	235	234	232
20 Falcon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Falcon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	305	305	305	305	305	305	305	305	305	304
22 Falcon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	37	37	37	37	37	37	37	37
24 Falcon	416	414	411	408	405	400	400	398	396	392	390	384	380	376	273	371	267	365	363	361	360	355	352	349
28 Falcon	239	237	235	233	231	229	227	225	223	220	218	216	214	211	209	207	204	202	200	199	198	196	194	192
30 Falcon	288	286	284	281	278	276	46	44	41	39	36	34	32	32	32	32	32	32	32	31	31	31	31	31
32 Falcon	169	167	165	163	161	159	156	154	152	149	147	145	143	143	143	143	143	143	143	143	143	143	143	143
34 Falcon	258	255	253	250	248	245	243	240	238	236	233	231	229	227	225	222	219	217	215	214	212	210	207	205
1 Iris	83	825	82	81	81	80	80	79	78	78	77	76	75	75	74	73	72	72	71	71	70	70	69	68
2 Iris	354	352	351	349	347	346	344	342	341	339	338	336	334	332	330	329	327	325	323	322	322	320	319	318
3 Iris	134	131	127	123	119	116	112	109	104	100	96	92	88	84	80	77	75	73	68	66	65	62	59	56
4 Iris	111	109	106	103	100	97	94	91	88	85	78	72	67	64	61	58	55	53	50	48	47	46	42	39
6 Iris	62	61	60	58	57	56	54	53	52	51	50	49	48	46	45	44	43	42	40	39	39	38	37	36
9 Iris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	156	153	152	151	150	149	148	147	146	
12 Iris	138	135	131	128	125	123	120	117	115	113	111	108	106	103	101	99	97	94	91	90	90	88	86	84
15 Iris	189	187	186	185	184	182	181	180	179	178	177	175	173	172	171	170	169	168	167	166	166	165	164	163

7/10	6/10	5/10	4/10	3/10	2/10	4/30/09	3/31/09	2/27/09	1/30/09	12/31/08	12/1/08	10/31/08	10/1/08	9/2/08	7/30/08	7/1/08	6/1/08	5/1/08
0	0	0	0	0	0	145	142	140	137	134	132	130	128	127	126	124	123	117
72	72	71	71	70	69	59	59	58	57	56	55	54	53	52	51	50	50	49
51	51	51	51	50	49	44	43	42	42	40	39	39	39	38	38	38	37	35
50	46	44	42	37	32	39	34	30	26	22	18	15	12	8	4	198	194	189
0	0	0	0	0	0	0	0	0	0	0	19	18	18	17	15	14	14	13
230	228	228	227	226	224	210	210	209	208	207	206	205	204	202	201	199	197	194
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
302	298	297	295	292	290	250	246	242	239	236	233	229	226	223	219	215	212	207
37	37	37	37	36	36	0	57	57	57	57	56	56	56	56	54	54	54	54
345	342	340	338	335	332	286	282	277	274	270	267	263	260	254	248	243	240	236
190	188	187	186	184	182	162	160	0	0	0	0	0	0	0	0	0	0	0
31	29	29	28	26	25	10	9	8	7	5	5	3	2	147	147	147	147	147
143	143	143	143	142	142	128	125	124	123	121	119	113	108	102	99	98	97	95
203	200	199	198	196	193	168	166	163	161	159	157	155	153	151	149	147	145	143
68	67	67	66	65	65	60	59	59	58	58	56	56	55	54	53	52	51	51
316	315	314	313	312	311	293	290	288	287	285	284	283	282	281	279	275	275	271
52	48	46	45	41	36	0	0	0	0	0	0	0	0	0	0	0	0	0
36	34	32	31	28	26	0	0	0	0	0	0	0	0	0	0	0	0	0
35	34	34	33	31	30	9	8	6	5	4	3	2	1	0	158	158	158	145
144	142	141	141	140	138	123	121	120	118	117	115	113	111	109	101	99	97	95
82	79	78	77	75	73	48	46	43	41	39	37	36	34	32	30	28	26	25
161	160	159	159	158	157	145	144	143	142	141	140	138	137	136	135	134	133	132

09/18/2012 02:51 2076263174

Water Use Records and Percentile Calculations

rev. 02/2004

Mainely Investments, LLC
541 Riverside Drive, Augusta, ME

Location	units	gallons	# days	avg. gpd	# readings
7 Falcon	28	21000.00	360	58.33	12.00
12 Falcon	51	38250.00	1290	29.65	43.00
14 Falcon	23	17250.00	870	19.83	29.00
15 Falcon	133	99750.00	1200	83.13	40.00
16 Falcon	6	4500.00	240	18.75	8.00
18 Falcon	42	31500.00	870	36.21	29.00
20 Falcon	0	0.00	0	48.00	0.00
21 Falcon	98	73500.00	870	84.48	29.00
22 Falcon	1	750.00	420	48.00	14.00
24 Falcon	180	135000.00	1290	104.65	43.00
28 Falcon	57	42750.00	900	47.50	30.00
30 Falcon	21	15750.00	720	21.88	24.00
32 Falcon	74	55500.00	1290	43.02	43.00
34 Falcon	115	86250.00	1290	66.86	43.00
1 Iris	32	24000.00	1290	18.60	43.00
2 Iris	83	62250.00	1290	48.26	43.00
3 Iris	98	73500.00	900	81.67	30.00
4 Iris	85	63750.00	900	70.83	30.00
6 Iris	32	24000.00	900	26.67	30.00
9 Iris	61	45750.00	840	54.46	28.00
12 Iris	113	84750.00	1290	65.70	43.00
15 Iris	57	42750.00	1290	33.14	43.00

Daily	Weekly	Monthly	Quarterly
80th percentile	85th percentile	90th percentile	95th percentile
1541	1761	1826	1857

	units	gallons	avg. gpd
total	1390.00	1042500.00	34750
average	63.18	47386.36	50.44

To use: Enter the date, number of days, and cubic feet. The gallons and percentiles will be calculated automatically by the spreadsheet. To add more readings, simply insert additional rows into the spreadsheet. Choose the percentile which corresponds to the reading frequency: daily, weekly, monthly, or quarterly.

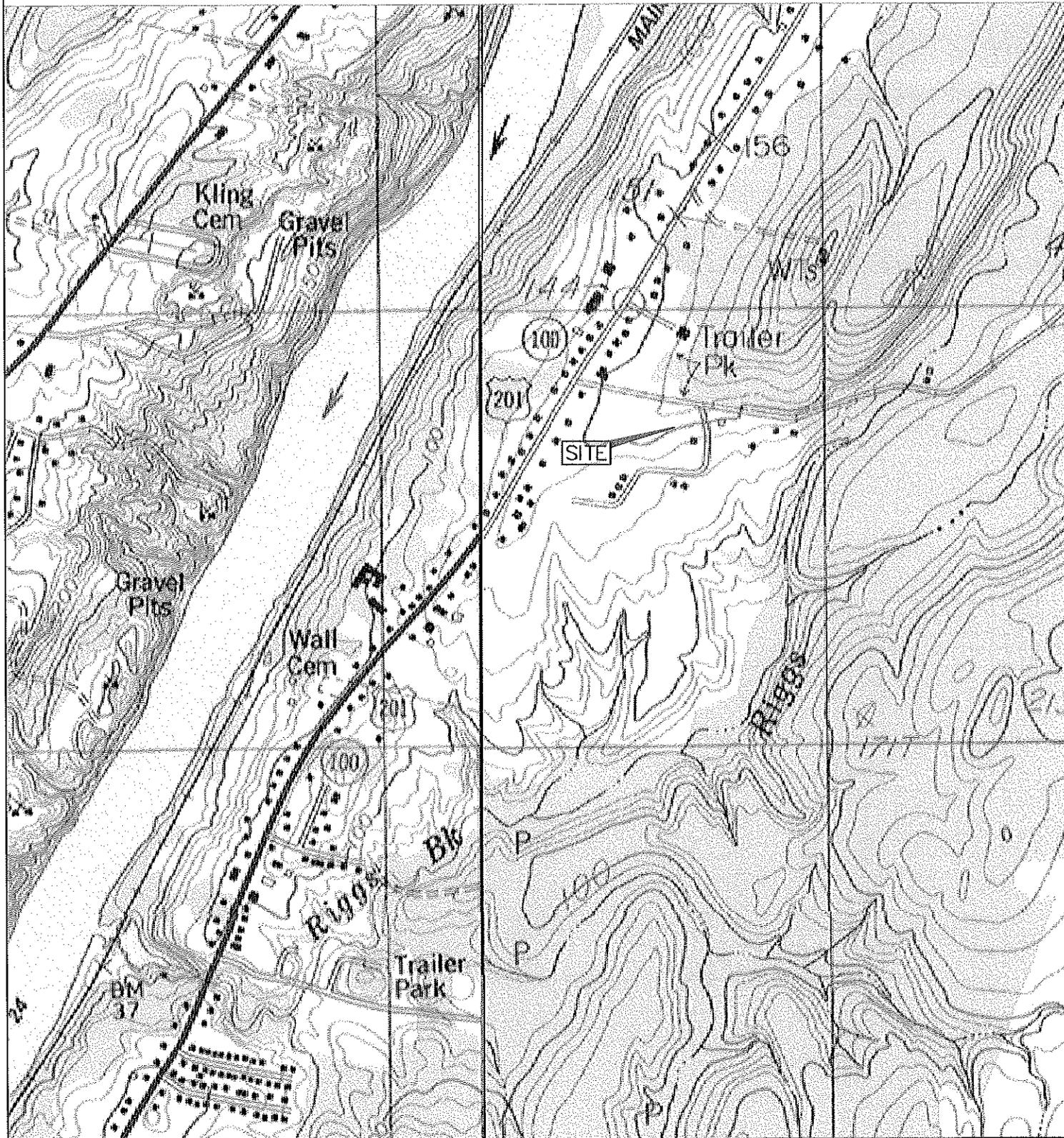
1 unit = 750 gpd

<u>90th percentile avg. gpd</u>		
avg gpd 90 perc	number of trailers	
83	22	1826



SITE LOCATION MAP

SCALE 1" = 1000'



HHE-200

ENGINEERING
ES. COFFIN
 SURVEYING
 1903
 ES. COFFIN ENGINEERING & SURVEYING, INC.
 431 Cons Road P.O. Box 4657 Augusta, Maine 04300
 Ph. (207) 625-9475 Fax (207) 625-6016 Toll Free 1-800-244-0425

PROJECT Mainely Investments, LLC		SHEET TITLE SITE LOCATION MAP	
DESIGN SEPTIC SYSTEM DESIGN		SCALE AS SHOWN	
LOCATION FALCON STREET		DATE SEPTEMBER 24, 2012	
COUNTY AUGUSTA		STATE KENNEBEC MAINE	

Town, City, Plantation
 Augusta

Street, Road, Subdivision
 Falcon Street

Owner's Name
 Mainly Investments, LLC

SITE PLAN

Scale: 1" = ___ feet

TEXTURE TERMS

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

TEXTURE

ABUNDANCE
 Very-30-80%
 Extremely-61-90%

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

- 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	V. Dk Gr Br	None
		Olive Brown	
very fine sandy loam	Firm		Common
		Greyish Brown	Distinct

Soil Classification	Slope	Limiting Factor	<input checked="" type="checkbox"/> Ground Water
<u>3</u> <u>D</u>	<u>2</u> %	<u>9</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 Yel Brown	None
		Yel Brown	
very fine sandy loam	Firm		Common
		Olive Br	Distinct

Soil Classification	Slope	Limiting Factor	<input checked="" type="checkbox"/> Ground Water
<u>3</u> <u>D</u>	<u>2</u> %	<u>11</u> "	<input type="checkbox"/> Restrictive Layer
Profile Condition			<input type="checkbox"/> Bedrock
			<input type="checkbox"/> Pit Depth

Site Evaluator's Signature *Karen P. Coffey*

SE # 331

Date: 09/24/12

HHE-200

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services (207) 287-5672
 Division of Health Engineering (207) 287-4172 (fax)

Town, City, Plantation
Augusta

Street, Road, Subdivision
Falcon Street

Owner's Name
Mainely Investments, LLC

ELEVATION REFERENCE POINT:

DESCRIPTION: ELEVATION: 00"
 50d spike in 14" Pine Tree
 (20" above ground)

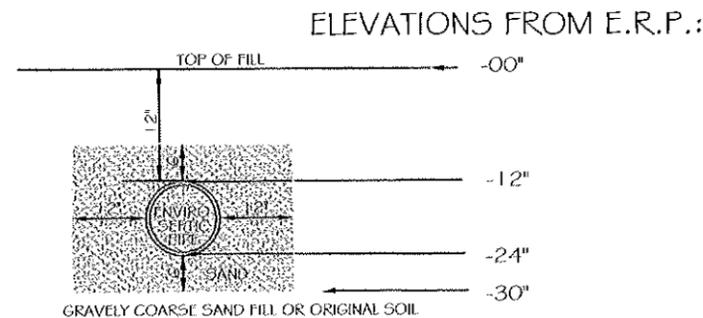
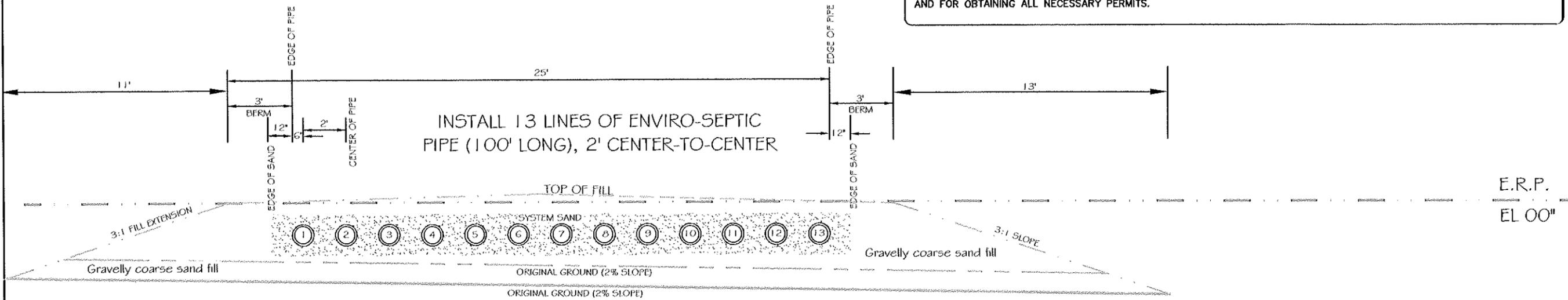
DISPOSAL AREA CROSS SECTION

SCALE:

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

CONSULT THE DESIGN & INSTALLATION MANUAL
 FOR THE ENVIRO-SEPTIC LEACHING SYSTEM
 PRESBY ENVIRONMENTAL, INC. 1-800-473-5298

- DISPOSAL FIELD CONSTRUCTION TECHNIQUES**
1. VEGETATION SHALL BE CUT AND REMOVED FROM THE AREA WHERE BACKFILL MATERIAL IS TO BE PLACED.
 2. THE AREA UNDER THE DISPOSAL FIELD AND BACKFILL EXTENSIONS SHALL BE ROTO-TILLED WITH GRAVELLY COARSE SAND FILL TO A DEPTH OF 6-8 INCHES TO FORM A TRANSITIONAL HORIZON.
 3. FILL LARGE HOLES THAT ARE LEFT AS A RESULT OF STUMP OR STONE REMOVAL WITH GRAVELLY COARSE SAND FILL.
 4. SURFACE WATER (FROM ROOFS OR UPLAND) MUST BE DIVERTED AWAY FROM THE DISPOSAL FIELD.
 5. SEPTIC LINES MAY BE RELOCATED TO A MORE FEASIBLE LOCATION AS LONG AS SETBACKS AND INTENT OF DESIGN IS MET.
 6. ALL CONSTRUCTION SHALL CONFORM WITH TITLE 22-MRSA, SECTION 42, 10-144A-CMR 241 "MAINE SUBSURFACE WASTE WATER DISPOSAL RULES" AND OTHER PERTINENT SECTIONS.
 7. THE OWNER/CONTRACTOR SHALL CAREFULLY OBSERVE THE VERTICAL DISTANCE BETWEEN THE E.R.P. AND THE BOTTOM OF THE LEACH FIELD AND NOTIFY THE SITE EVALUATOR PROMPTLY IF SEPARATION DISTANCE APPEARS TO BE AT ODDS WITH THE ORIGINAL GROUND.
 8. THE OWNER/APPLICANT IS RESPONSIBLE FOR THE CONTRACTOR INSTALLING THE PROPOSED SEPTIC SYSTEM CORRECTLY AND FOR OBTAINING ALL NECESSARY PERMITS.



DETAIL (no scale)

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.

FILL REQUIREMENTS	
Depth of Fill (Upslope)	38"-44"
Depth of Fill (Downslope)	38"-49"

CONSTRUCTION ELEVATIONS	
Finished Grade Elevation	0'
Top of Distribution Pipe or Proprietary Device	-12"
Bottom of Disposal Area	-30"

SHEET TITLE	
CROSS-SECTIONAL VIEW	
SCALE: 1" = 5'	DATE: SEPTEMBER 24, 2012

PROJECT: **MAINELY INVESTMENTS, LLC**
 LOCATION: **FALCON STREET**
 TOWN: **AUGUSTA** COUNTY: **KENNEBEC** STATE: **MAINE**

GLYNN ROAD
 PO BOX 487
 AUGUSTA, ME
 04301-0487
 207-624-4475

50 UNION STREET
 AUGUSTA, ME
 04303-1611
 1-800-252-0465

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 ENGINEERING & SURVEYING
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PROJ. NO. 2012-219

Site Evaluator's Signature

SE # 331

Date: 09/24/12

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SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

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

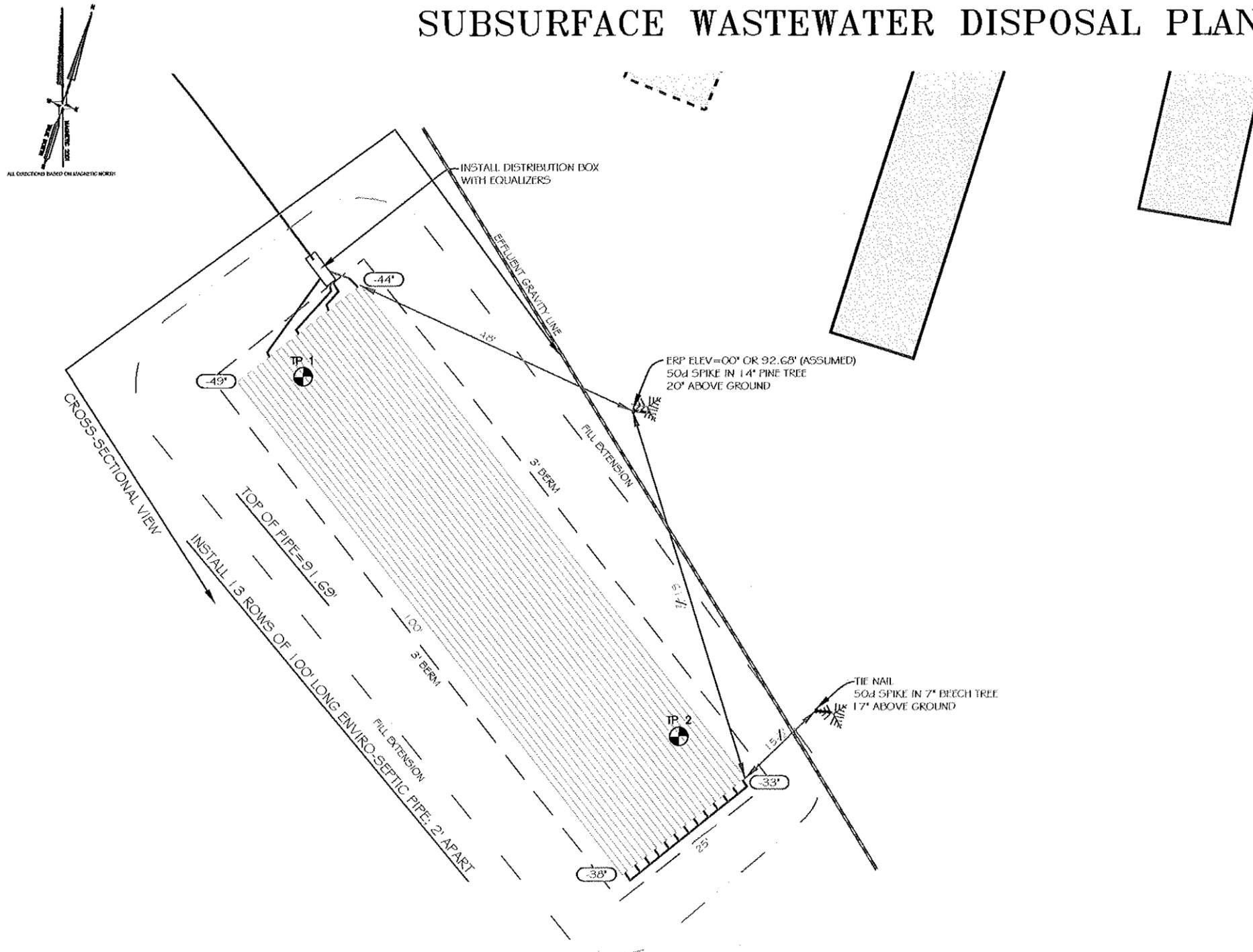
Town, City, Plantation
Augusta

Street, Road, Subdivision
Falcon Street

Owner's Name
Mainly Investments, LLC

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 20'



DISPOSAL FIELD CONSTRUCTION TECHNIQUES

1. Vegetation shall be cut and removed from the area where backfill material is to be placed. Organic duff and old fill material from under the disposal area and fill extension should be removed.
2. The area under the disposal field and backfill extensions shall be roto-tilled with gravelly coarse sand fill to a depth of 6-8 inches to form a Transitional Horizon. Do not use wheeled equipment on the scarified soil surface until after 12 inches of fill is in place.
3. Fill large holes that are left as a result of stump or stone removal with gravelly coarse sand fill.
4. Surface water (from roofs or upland) must be diverted away from the disposal field.
5. Septic tank(s), grease trap, pumping station, and lines may be relocated to accommodate site conditions as long as setbacks and intent of design are met.
6. All construction shall conform with Title 22 MRSA, Section 42, 10-144A-CMR 241 "Maine Subsurface Waste Water Disposal Rules" and other pertinent sections.
7. The owner/contractor shall carefully observe the vertical distance between the E.R.P. and the bottom of the leach field and notify the Site Evaluator promptly if separation distance appears to be at odds with the original ground.
8. The owner/applicant is responsible for the contractor installing the proposed septic system correctly and for obtaining all necessary permits.
9. Access openings for septic tanks serving single-family dwelling units may be buried, although water tight risers to within 6" of finish grade are required. The riser opening must be at least 18" in diameter over the tank cover. Outlet baffles that utilize an effluent filter must have a riser of at least 18" in diameter extended to finish grade.
10. Installation of a garbage (grinder) disposal is not recommended. If one is installed, an additional 1000 gallon septic tank or a septic tank filter should be connected in series to the proposed septic tank.
11. The septic tank should be pumped at least once every three years.
12. The general minimum setback between a well and septic system serving a single family residence is 100-300 feet, unless the local municipality has a more stringent requirement. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.

ELEVATION REFERENCE POINT	DESCRIPTION:	ELEVATION: 00'
	50d spike in 1.4" Pine Tree (20' above ground)	

SHEET TITLE	PLAN VIEW
	SCALE: 1" = 20'
PROJECT:	MAINLY INVESTMENTS, LLC
LOCATION:	FALCON STREET
TOWN:	AUGUSTA
COUNTY:	KENNEBEC STATE MAINE
DATE:	SEPTEMBER 24, 2012

E.S. COFFIN & ASSOCIATES
ENGINEERING & SURVEYING, INC.
432 Court Street, 114, Box 467, Augusta, Maine 04330
Ph: (207) 625-5475 Fax: (207) 625-5476 Toll Free: 1-800-244-9473

Site Evaluator's Signature

Kane P. Coffin

SE # 331

Date: 09/24/12

PROJ. NO. 2012-219

HHE-200

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

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

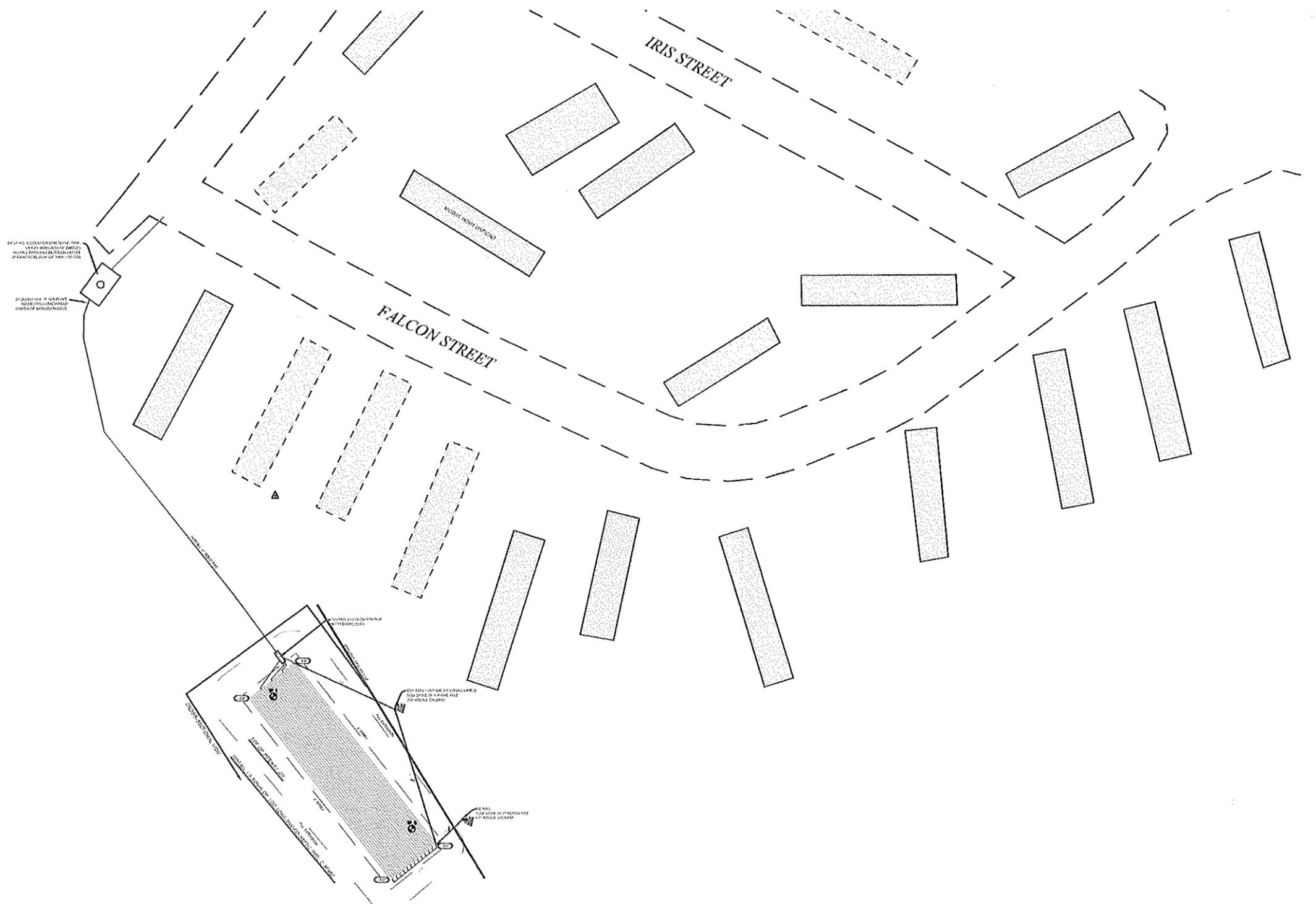
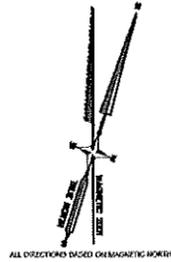
Town, City, Plantation
Augusta

Street, Road, Subdivision
Falcon Street

Owner's Name
Mainly Investments, LLC

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 50'



ELEVATION REFERENCE POINT

ELEVATION: 00'

DESCRIPTION:
50d spike in 1.4" Fine Tree
(20" above ground)

SHEET TITLE: PLAN VIEW

PROJECT: MAINLY INVESTMENTS, LLC

LOCATION: FALCON STREET

TOWN: AUGUSTA COUNTY: KENNEBEC STATE: MAINE

SCALE: 1" = 20'

DATE: SEPTEMBER 24, 2012



PROJ. NO. 2012-219

Site Evaluator's Signature

Kane P. Coffin

SE # 331

Date: 09/24/12

HHE-200

