



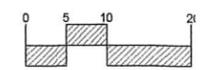
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Carlson Residence

293 Lamson Lane, New London, NH



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Tim and Cindy Carlson
 293 Lamson Lane New London, NH

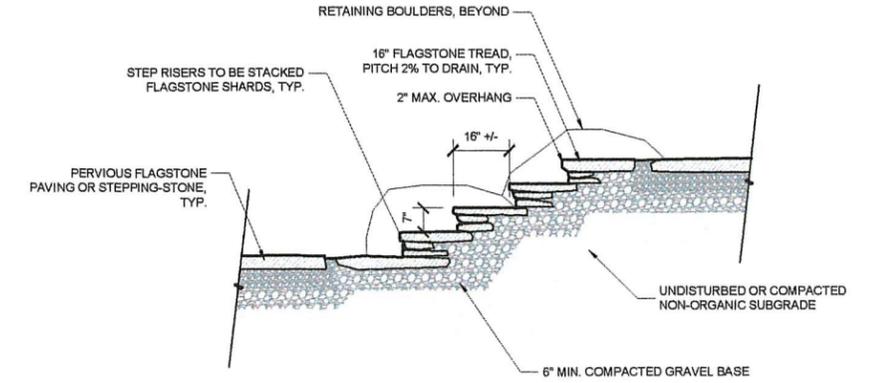
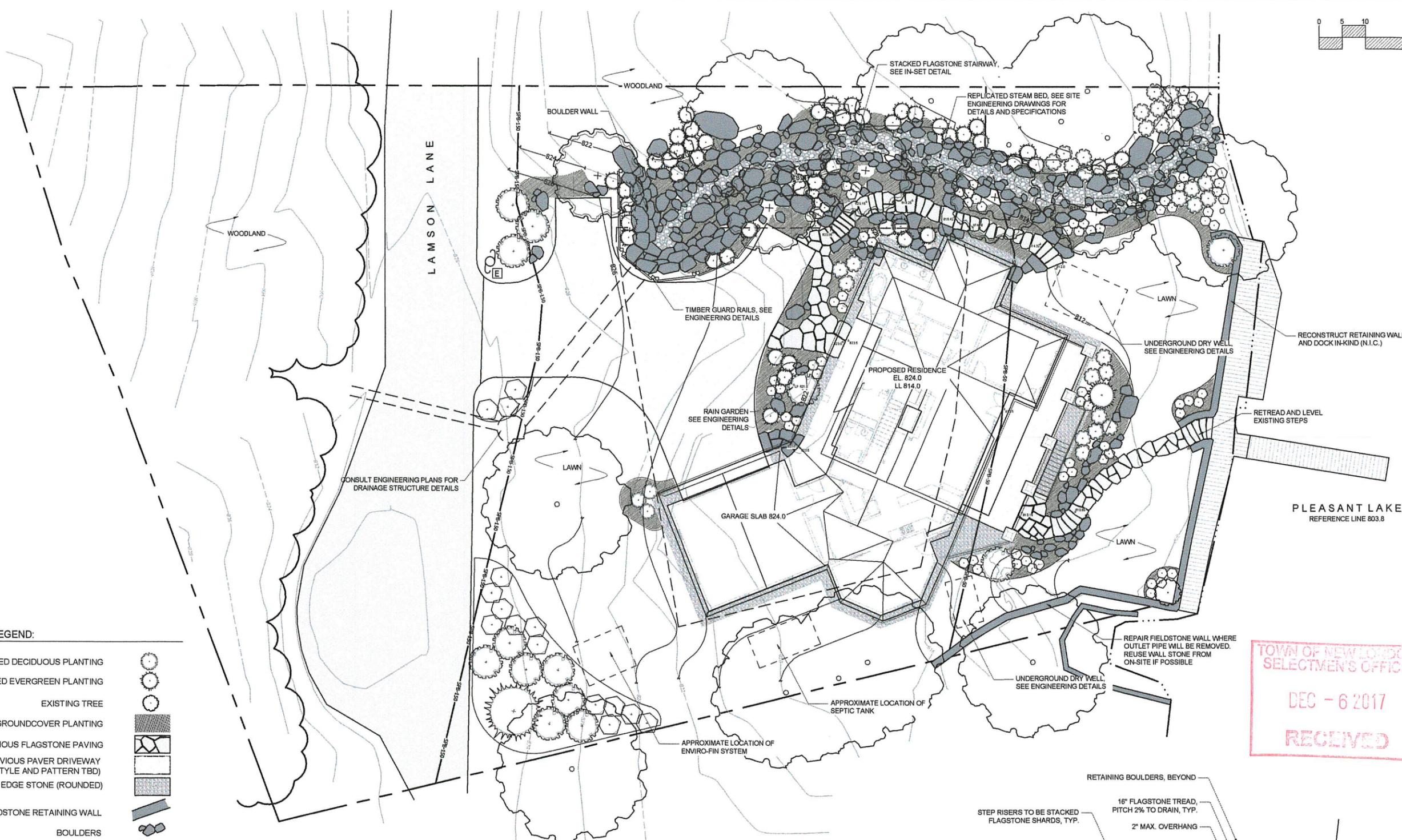
NOT FOR
 CONSTRUCTION

REVISION SCHEDULE		
No.	Date	Description

DATE: 09-12-2017
 SCALE: 1" = 10'-0"
 DRAWING SET REVISION:
 Bid Doc

SHEET TITLE:
 Landscape Master Plan

SHEET NUMBER:
 L1.0



STACKED FLAGSTONE STEPS
 SCALE: 1/2" = 1'-0"

LEGEND:

- PROPOSED DECIDUOUS PLANTING
- PROPOSED EVERGREEN PLANTING
- EXISTING TREE
- PERENNIAL/GROUNDCOVER PLANTING
- PERVIOUS FLAGSTONE PAVING
- PERVIOUS PAVER DRIVEWAY (STYLE AND PATTERN TBD)
- DRIP EDGE STONE (ROUNDED)
- FIELDSTONE RETAINING WALL
- BOULDERS
- STEPPING-STONES
- LOW VOLTAGE LED PATH LIGHT
- APPROXIMATE TREE LINE
- PROPERTY LINE
- SETBACK
- NHDES ZONES
- REFERENCE LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR

GENERAL NOTES:

1. EXISTING SITE CONDITIONS BASED ON "EXISTING CONDITIONS PLAN - 293 LAMSON LANE PERMITTING" BY HORIZONS ENGINEERING, NEW LONDON, NH DATED OCTOBER 2014.
2. DRAINAGE FEATURES CORRESPOND TO "STREAM RESTORATION PLAN" BY HORIZONS ENGINEERING, NEW LONDON, NH DATED NOVEMBER 2015.
3. PROJECT SUBJECT TO CONDITIONS OF SHORELAND IMPACT PERMIT 2017-01515, JUNE 26, 2017. CONSULT PROJECT SET BY HORIZONS ENGINEERING.
4. INDIVIDUAL SEWAGE DISPOSAL SYSTEM APPROVAL #eCA2017062723, DESIGN BY HORIZONS ENGINEERING
5. DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF BA&A
6. LAWN AREAS TO BE SODDED AND IRRIGATED. (DRAW WATER FROM LAKE)
7. LAWN AREAS TO BE PREPARED WITH 4" MIN. SCREENED LOAM
8. PLANTING BEDS TO BE FURNISHED WITH 6-8" MIN. SCREENED LOAM OR GREATER IF ROOT BALL REQUIRES.
9. CONCRETE PAVING BELOW LAKESIDE DECK TO BE CONVENTIONALLY CONSTRUCTED (NOT PERVIOUS)

TIM & CINDY CARLSON

293 LAMSON LANE

NEW LONDON, NEW HAMPSHIRE
MAY 2017

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BP# 17-147

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SHEET LIST

	COVER
C 101	EXISTING CONDITIONS PLAN
C 201	SITE PLAN
C 301	DETAILS
C 302	DETAILS
C 401	ENVIROFIN SYSTEM (SEPTIC PLAN)



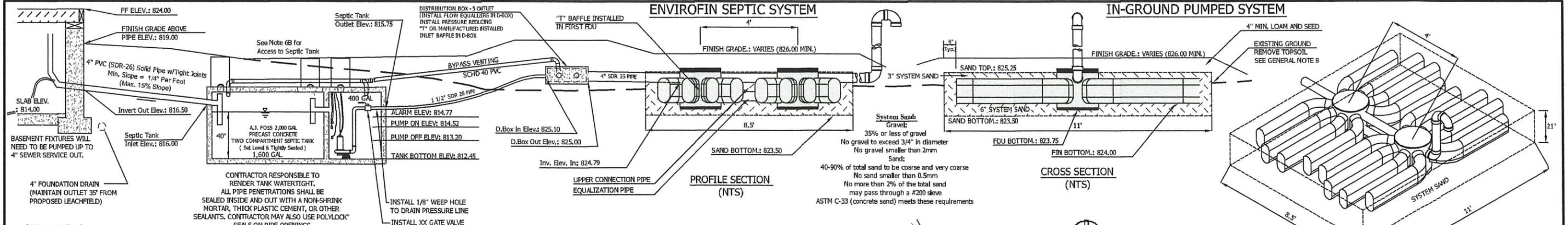
LOCATION PLAN

SCALE: 1" = 2000'

SEPTIC

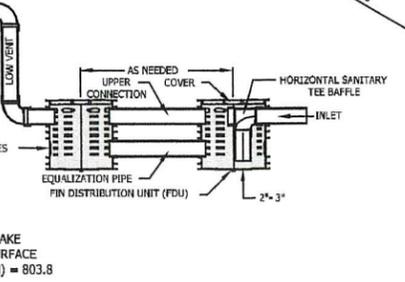
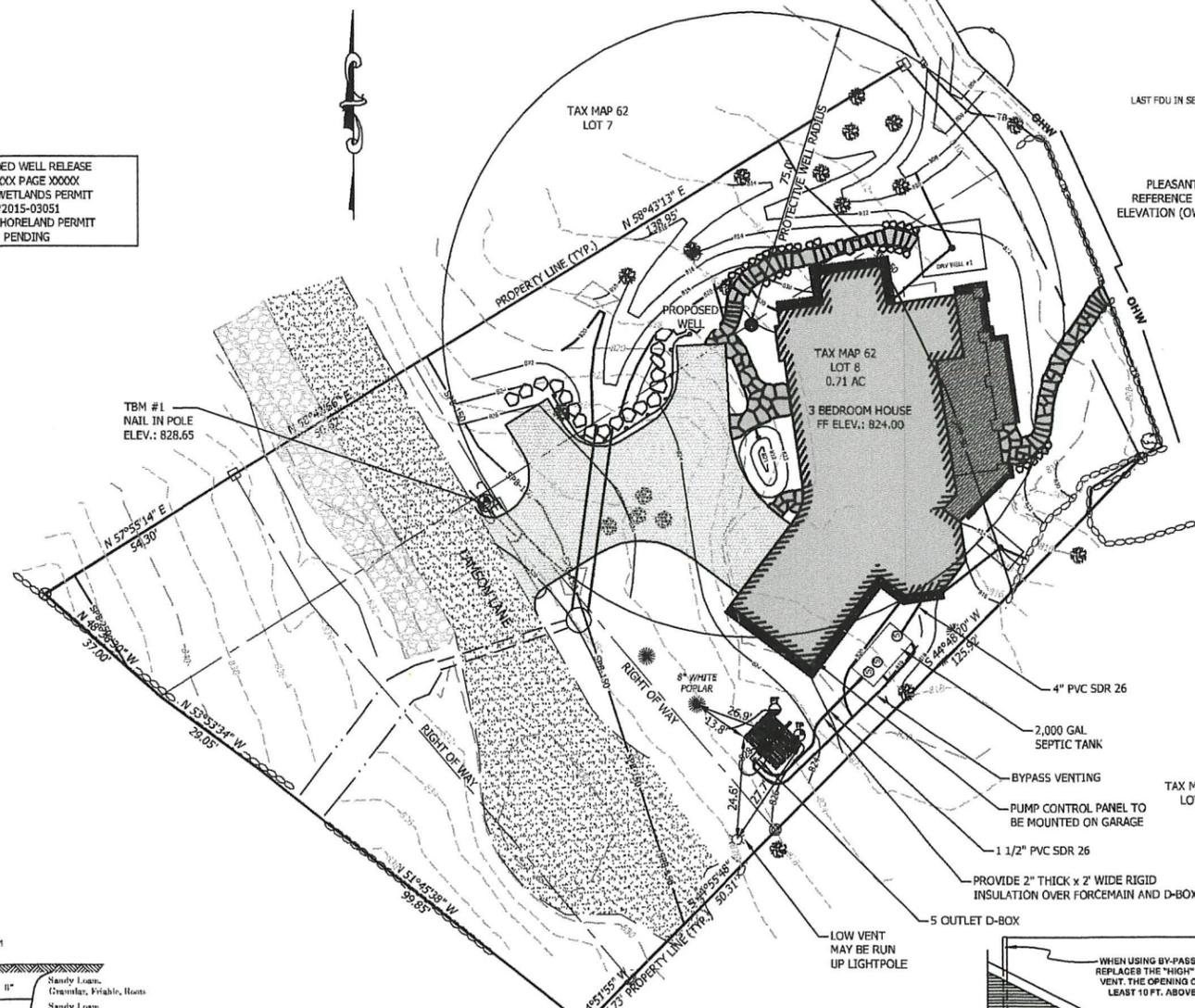
ENVIROFIN SEPTIC SYSTEM

IN-GROUND PUMPED SYSTEM



- GENERAL NOTES**
1. THE CONTRACTOR SHALL ADHERE STRICTLY TO THESE PLANS AND THE REGULATIONS SET FORTH IN THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES MANUAL - "SUBDIVISION AND INDIVIDUAL SEWAGE DISPOSAL SYSTEM DESIGN RULES", CHAPTER ENV-WQ 1000, DATED OCTOBER 1, 2016, CURRENT EDITION, AS WELL AS "THE PRESBY WASTEWATER TREATMENT SYSTEM, NEW HAMPSHIRE DESIGN AND INSTALLATION MANUAL FOR ENVIROFIN", CURRENT EDITION. THE DESIGNER AND INSTALLER OF THIS SYSTEM MUST BE CERTIFIED IN THE NH ENVIROFIN ONLINE CERTIFICATION.
 2. CALL DIG-SAFE PRIOR TO INSTALLATION.
 3. SEPTIC SYSTEM SHALL BE INSTALLED BY A NHDES LICENSED INSTALLER.
 4. THIS PLAN IS NOT MEANT TO REPRESENT A PROPERTY BOUNDARY SURVEY.
 5. ENVIROFIN SYSTEM AS MANUFACTURED BY PRESBY ENVIRONMENTAL, INC., SUGAR HILL, NH.
 6. COVER OVER PROPOSED SYSTEM:
 - A. 24" MINIMUM COVER SHALL BE PROVIDED OVER THE PIPE FROM THE HOUSE TO THE SEPTIC TANK OR THE PIPE SHALL BE INSULATED.
 - B. IF THE FINISH GRADE OVER THE SEPTIC TANK IS GREATER THAN 24" PROVIDE ACCESS WITH RISERS OVER TANK OPENINGS FOR FUTURE ACCESS TO THE TANK COVERS FOR MAINTENANCE.
 - C. EFFLUENT DISPOSAL AREA: MAXIMUM COVER OVER THE SYSTEM TO BE 18" UNLESS A LOW VENT IS INSTALLED. MINIMUM COVER TO BE 6" WITH AVERAGE COVER BEING 12". THE FINISH GRADE IS TO BE SLOPED TO DRAIN OFF THE TOP OF THE SYSTEM AT MINIMUM OF 1%.
 - D. MAINTAIN 2" OF COVER OVER THE PIPE FROM THE SEPTIC TANK TO THE DISTRIBUTION BOX OR THE PIPE SHALL BE INSULATED.
 7. IF THE CONTRACTOR DETERMINES THAT EXISTING FIELD CONDITIONS ARE OTHER THAN SHOWN ON THESE PLANS, HE SHALL STOP WORK IMMEDIATELY AND NOTIFY THE OWNER AND DESIGNER FOR DIRECTIONS.
 8. ALL TREES, ROOTS, LOAM AND OTHER ORGANIC MATTER SHALL BE REMOVED FROM UNDER LEACHFIELD AND SLOPE EXTENSIONS PRIOR TO PLACING FILL. PLACE FILL IN 16" LIFTS, CONSOLIDATE AND RAKE BACK-FILL. SCARIFY SUBGRADE SOIL.
 9. FILL USED TO RAISE THE EFFLUENT DISPOSAL AREA SHALL BE CLEAN BANK RUN SAND, FREE FROM TOPSOIL, HUMUS, DREDGINGS, OR STONES OR MATERIAL MORE THAN 6" IN DIAMETER.
 10. ALL DISTURBED AREA SHALL BE LOAMED, SEEDING, FERTILIZED AND MULCHED (GRADE LOAM TO DRAIN 1% MIN SLOPE ON TOP OF LEACHFIELD).
 11. RECOMMENDED OPERATING PROCEDURES:
 - A. PUMP SEPTIC TANKS ONCE EVERY TWO YEARS.
 - B. USE BIODEGRADABLE DETERGENTS.
 - C. WATER SAVING DEVICES AND PROCEDURES ARE RECOMMENDED.
 - D. ANY FUTURE REPLACEMENT SYSTEM, IF NEEDED, SHALL BE LOCATED IN THE SAME LOCATION AS THIS DESIGN UNLESS CONDITIONS AT THE TIME OF REPLACEMENT DICTATE OTHERWISE.
 - E. THE TANK SIZE SHALL BE INCREASED BY 50% IF A GARBAGE GRINDER IS TO BE INSTALLED.
 12. PIPES AND CONNECTIONS OUTSIDE OF THE LEACHING AREA SHALL BE WATER TIGHT. THE CONNECTIONS SHALL BE SEALED WITH NON-SHRINK HYDRAULIC CEMENT.
 13. THE DISTRIBUTION BOX SHALL HAVE S.S.I., INC. FLOW EQUALIZERS INSTALLED IN THE OUTLET PORTS.
 14. THIS SYSTEM HAS NOT BEEN DESIGNED FOR VEHICULAR TRAFFIC. THEREFORE, THE SYSTEM SHOULD BE PROTECTED FROM ANY WHEEL VEHICLES.
 15. THE SITE IS LOCATED WITHIN THE NHDES PROTECTIVE SHORELAND.

RECORDED WELL RELEASE
BK XXXX PAGE XXXXX
NHDES WETLANDS PERMIT
#2015-03051
NHDES SHORELAND PERMIT
PENDING



PUMPED SYSTEM:
TOTAL DYNAMIC HEAD OF 16 FT
450 GPD / 150 GAL DOSE VOLUME = PUMP ON 3 TIMES PER DAY
150 GAL / 5.4 MIN. PUMP RUN TIME = 28 GPM
USE STA-RITE EC3 1/2 HP OR EQUAL TO MEET CAPACITY OF 28 GPM AT 16 FT OF TDH.

DESIGN CRITERIA
NUMBER OF BEDROOMS: 3
SEWAGE LOADING: 3 x 150 GPD = 450 GPD
PERCOLATION RATE: 7 MINS/INCH
EF SOIL LOADING RATE (SLR) = 6.74 GPD/FT2
MIN. NUMBER OF ENVIROFINS = 2
MINIMUM TREATMENT AREA REQUIRED = 67 SF
AREA PROVIDED = 93.5 SF

BOTTOM OF ENVIROFIN ELEVATION: 824.00
THE ELEVATION OF THE HIGH CONTOUR OF THE DESIGNED BED: 825.00

DESIGN INTENT
BOTTOM OF THE BED SHALL BE CONSTRUCTED AT ELEV.: 824.00
THE ELEVATION OF THE HIGH CONTOUR OF THE DESIGNED BED IS APPROXIMATELY 12 INCHES BELOW EXISTING GROUND LEVEL. BENCH MARK AND ELEVATION DATA TO BE USED TO DETERMINE THE ACTUAL ELEVATION OF THE FIELD FOR GREATER ACCURACY.

THE PURPOSE OF THIS PLAN IS TO DEMOLISH THE EXISTING 3 BEDROOM HOUSE, CONSTRUCT THE PROPOSED 3 BEDROOM HOUSE, AND INSTALL A NEW SEPTIC SYSTEM MEETING CURRENT NHDES SUBSURFACE REQUIREMENTS.

- MIN. SETBACKS RELEVANT TO THIS DESIGN:**
- SEPTIC TANK - 5' FROM PROPERTY LINE, 5' FROM GARAGE, 50' FROM WELL, 50' FROM LAKE
 - ENVIROFIN LEACH FIELD - 75' FROM LAKE, 75' FROM WELL, 15' FROM GARAGE, 75' FROM OPEN WATER, 75' FROM CULVERT INLET, 35' FROM CATCHBASIN, 10' FROM PROPERTY LINE

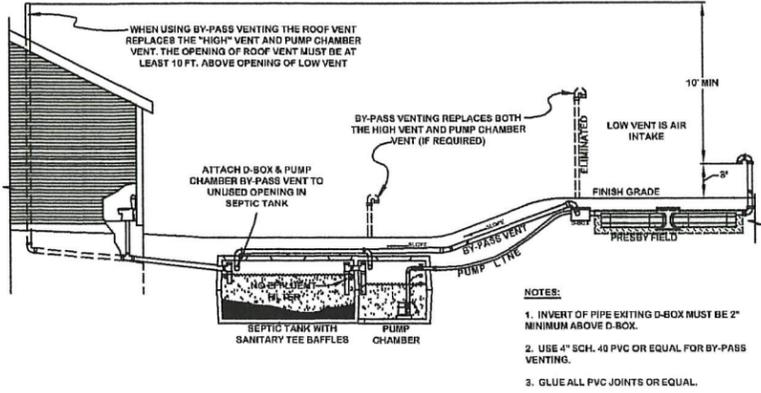
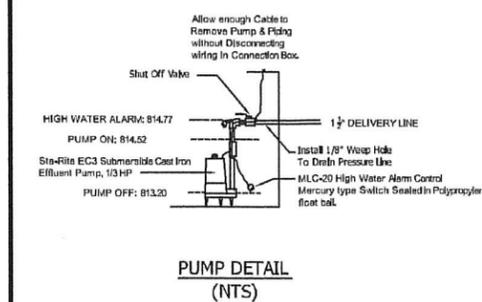
BENCHMARKS USED FOR THE POINTS TO BE LEFT IN PLACE AND VISIBLE UNTIL THE NHDES INSPECTION HAS BEEN COMPLETED AND APPROVED.

TEST PIT #1

Very Dark Grayish Brown	10 Y H 3/2	0"	Sandy Loam, Gravel, Friable, Hoos
Dark Yellowish Brown	10 Y H 1/4	16"	Sandy Loam, Gravel, Friable, Hoos
Dark Yellowish Brown	10 Y H 1/6	20"	Loam, Gravel, Friable, Hoos
Brown	7.5 Y 1/4	30"	Loam, Gravel, Friable, Hoos to 30"
Olive Brown	2.5 Y 1/4	40"	Fine Heavy Sand, Firm in Place, Single Grains, Loose

E.S.H.W.T.: 30" Restrictive Layer WATER OBSERVED: Seepage @ 48" LEDGE ENCOUNTERED: None
INSPECTED BY: J. DINGEAULT DATE: 04/27/2017
SOILS TYPE: S5B0 Sturdy Firm Sandy Loam REFERENCE: NROS WEB SOILS SURVEY

- PUMP SPECIFIC NOTES:**
1. PUMP STORAGE CHAMBER TO BE RENDERED WATERTIGHT.
 2. UNDERGROUND WIRING TO BE PROPERLY SIZED FOR DISTANCE OF RUN AND PUMP SPECIFIED BY LICENSED ELECTRICIAN. WIRE TO BE SLEEVED IN PVC PIPE & BACKFILLED WITH CARE.
 3. PROVIDE 2,000 GAL COMBINATION TANK AS MANUFACTURED BY A.J. FOSS OR EQUIVALENT.
 4. FURNISH STA-RITE EC3 1/2 HP PUMP OR EQUIVALENT SUBMERSIBLE PUMP & INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ADJUST MANUAL ON/OFF SWITCH AS NECESSARY TO REFLECT THE DISTANCES SHOWN ON PUMP DETAIL. THESE DISTANCES ALLOW FOR 150 GAL/DOSE PRODUCED. REFLECTS 114.3 GAL/FT OF VOLUME IN CHAMBER.
 5. DISCHARGE LINE FROM PUMP CHAMBER TO LEACHFIELD SHALL BE 1 1/2" PVC SDR 26 PIPE OR EQUIVALENT.



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TIMOTHY & LUCINDA CARLSON
6 IRONWOOD ROAD
SANDY HOOK, CT 06482

ENVIROFIN SYSTEM PUMPED SYSTEM 3 BEDROOM DESIGN
293 LAMSON LANE, NEW LONDON, NH

COUNTY: MERRIMACK
SUBDIVISION APPROVAL # N/A PRE 67
REGISTRY BOOK: 3016 PAGE: 268

NO.	DATE	REVISION DESCRIPTION	ENG	DWG

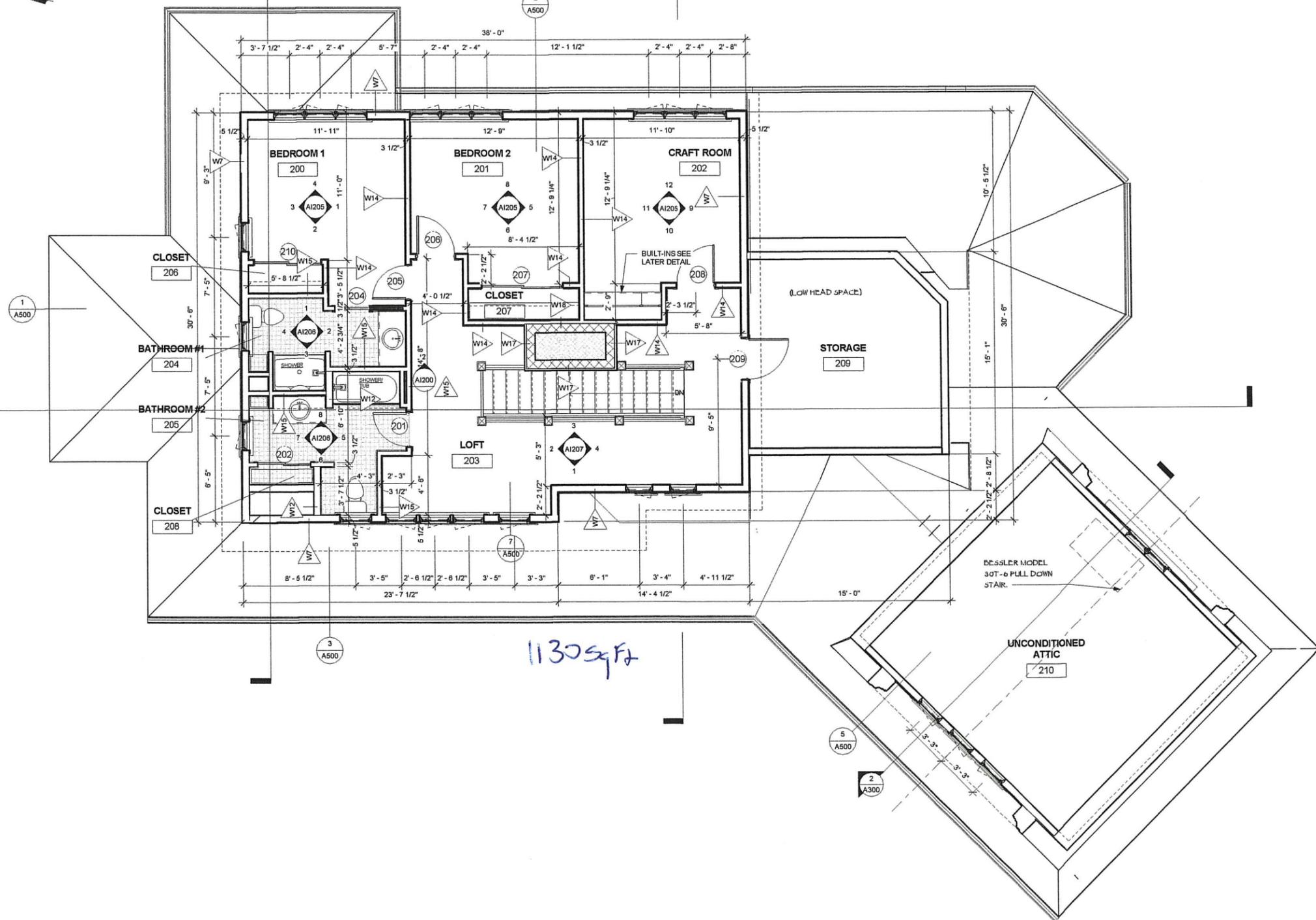
DATE: 05/03/2017 PROJECT #: 14819
ENGINEER BY: JCD DRAWN BY: JCD
CHECKED BY: ARCHIVE #: H-
SHEET C401

TOWN OF NEW LONDON
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GENERAL NOTES:

1. RE SHEETS A001 & A002 FOR ASSEMBLY DETAILS
2. ALL DOOR & WINDOW DIMENSIONS ARE TO CENTER LINE UNLESS NOTED OTHERWISE
3. UNLESS NOTED OTHERWISE, CENTER INTERIOR DOOR ROUGH OPENINGS IN WALLS OR WHEN ADJACENT TO A PERPENDICULAR WALL, PLACE ROUGH OPENING A MINIMUM OF 8" FROM ADJACENT WALL TO ALLOW FOR JAMB TRIM
4. ALL BEDROOM AND BATHROOM INTERIOR PARTITION WALLS TO HAVE SOUND ATTENUATION BATT INSULATION
5. SEE INTERIOR FINISH SCHEDULE FOR MATERIALS, FINISHES & COLORS
6. EXTERIOR HEADERS ABOVE DOORS AND WINDOWS TO BE (2) 2x6 12 SPP JACK STUD AND (1) 2x6 SPP 12 KING STUD AT EACH END, UNO.



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JEREMY K. BONIN
 Project Status

REVISION SCHEDULE

No.	Date	Description

DATE: 9/15/2017
 SCALE: 1/4" = 1'-0"
 DRAWING SET REVISION:

SHEET TITLE:
 SECOND FLOOR PLAN
 SHEET NUMBER:

A102

1 SECOND FLOOR
 1/4" = 1'-0"



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Project Status

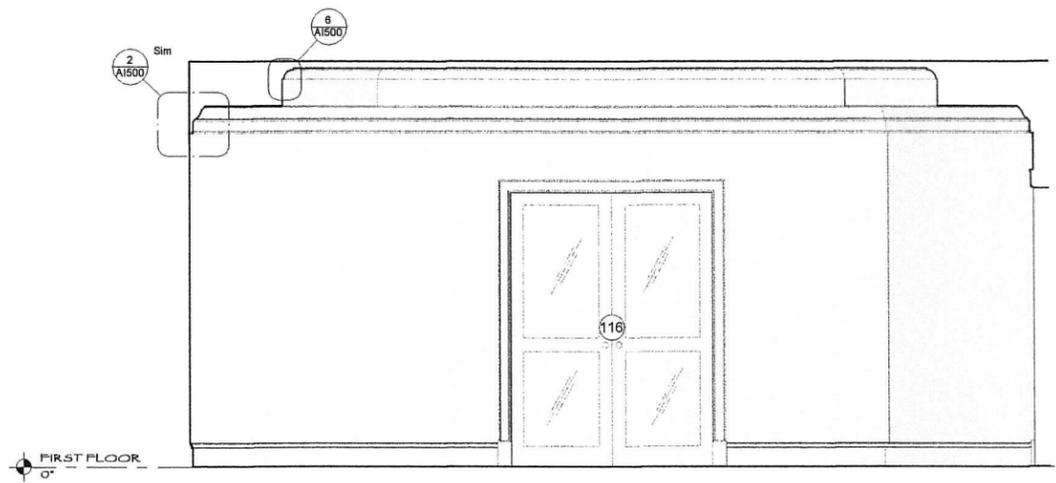
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REVISION SCHEDULE		
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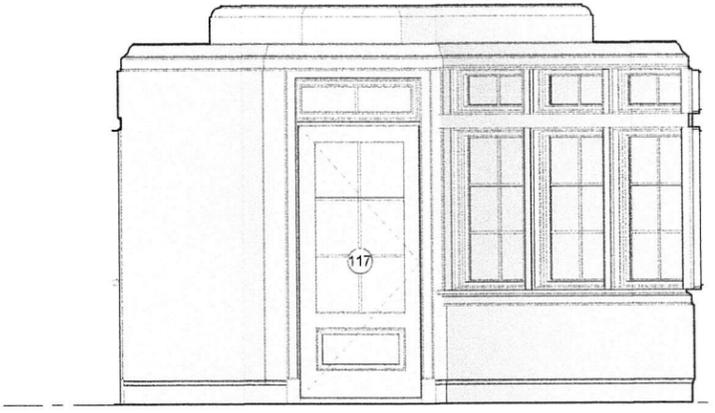
DATE: 9/15/2017
 SCALE: 1/2" = 1'-0"
 DRAWING SET REVISION:

SHEET 011 P
 FIRST FLOOR INTERIOR
 ELEVATIONS

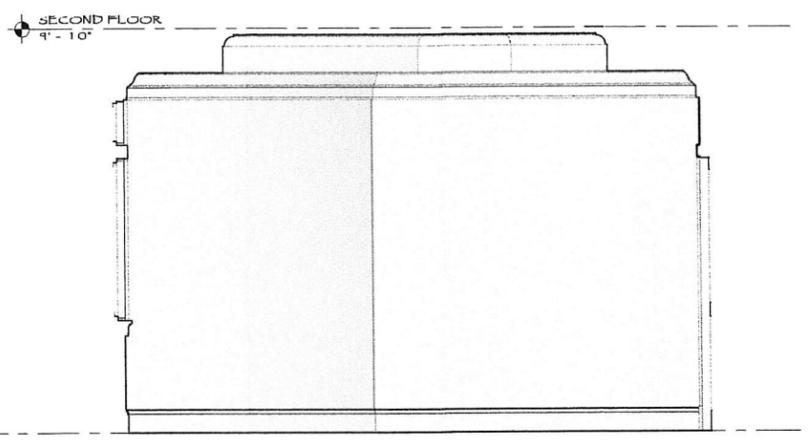
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AI204



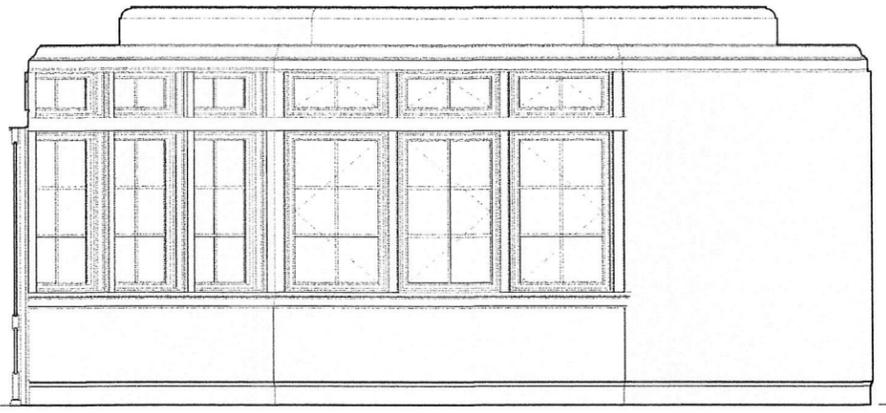
1 DINING A
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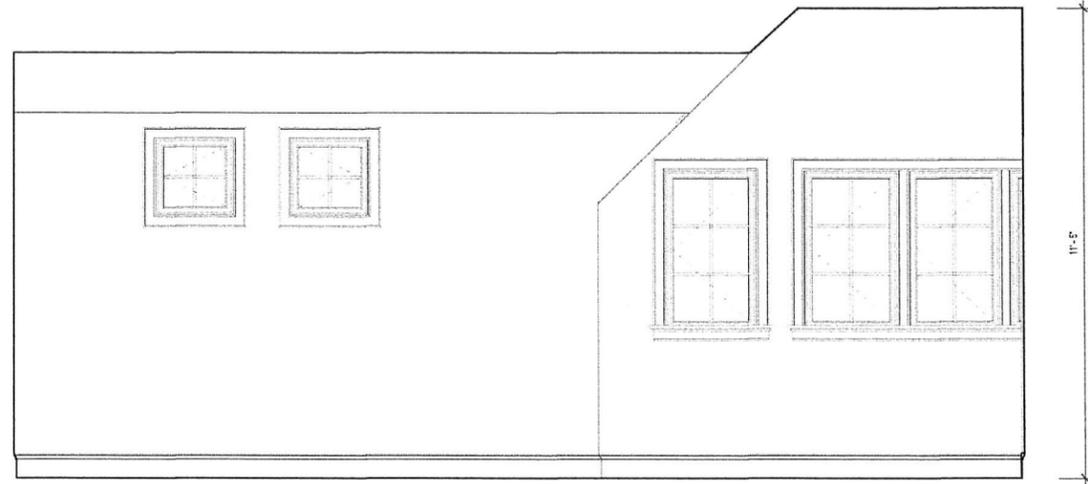
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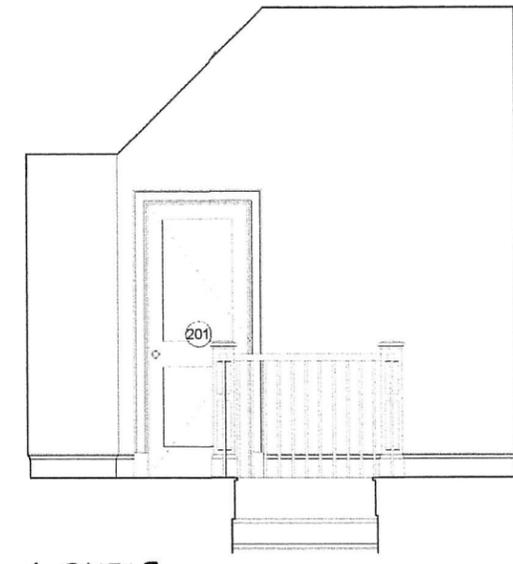
3 DINING C
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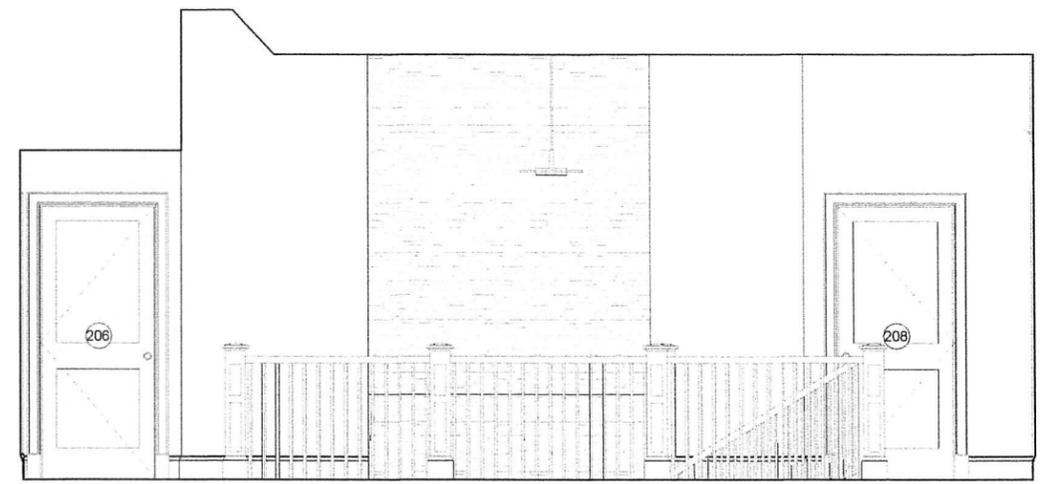
4 DINING D
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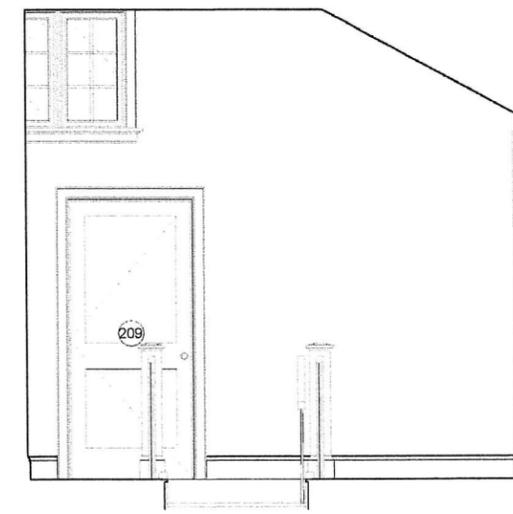
1 LOFT A
1/2" = 1'-0"



2 LOFT B
1/2" = 1'-0"



3 LOFT C
1/2" = 1'-0"



4 LOFT D
1/2" = 1'-0"



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Carlson Residence
293 Lamson Lane, New London, NH

JEREMY K. BOHN

Project Status

NH LIC. NO. 3299

REVISION SCHEDULE		
No.	Date	Description

DATE: 9/15/2017
SCALE: 1/2" = 1'-0"
DRAWING SET REVISION:

SHEET TITLE
2ND FLOOR INTERIOR
ELEVATIONS

SHEET NUMBER
A1207

