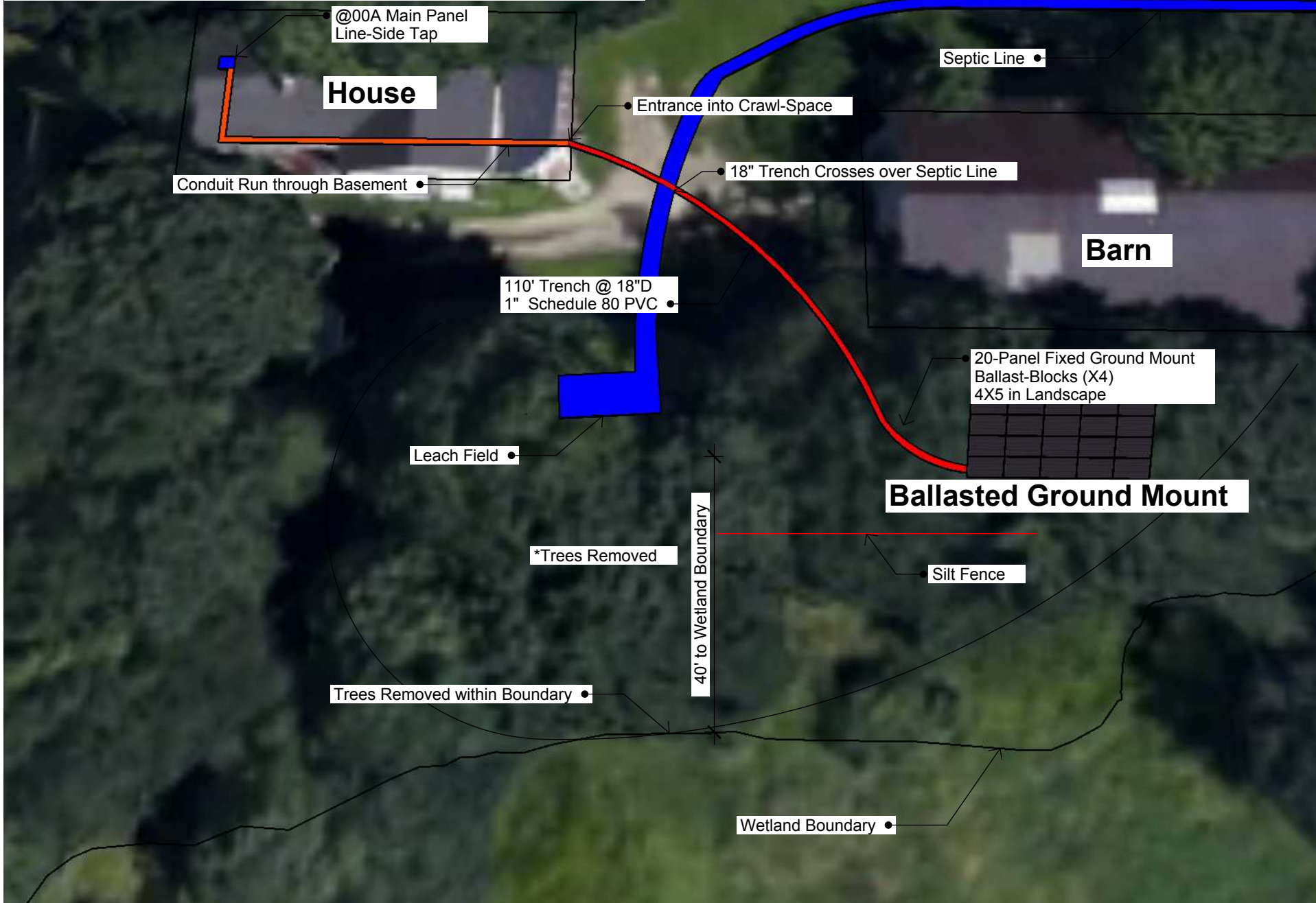


**System Layout for Bonnie Brown:
20 Q-Cells 320W Modules
Ballasted 4X5-Panel on Fixed-Ground Mount**



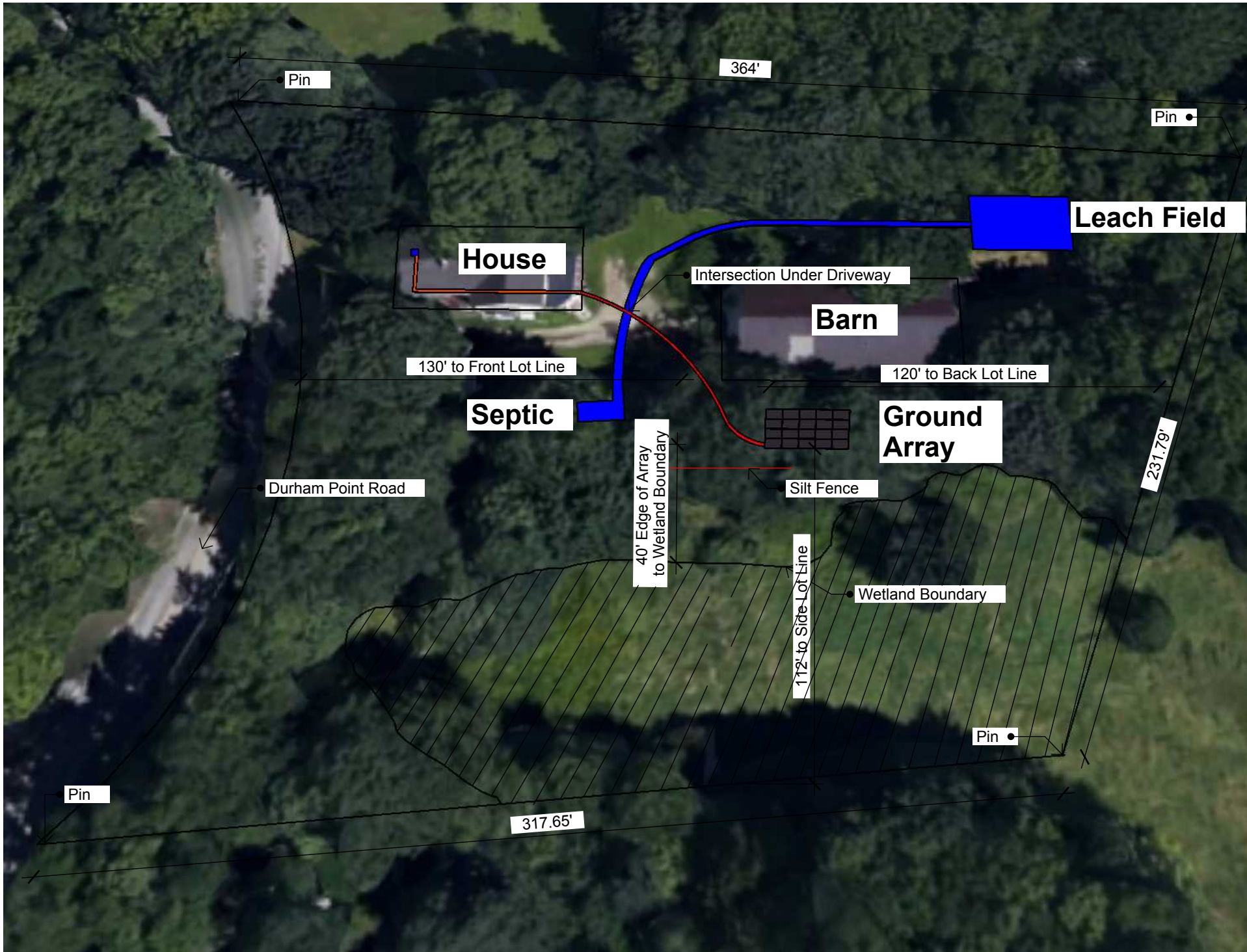
CLIENT
Bonnie Brown
253 Durham Point Rd.
Durham, NH

ISSUE
12/20/2019
CONSULTANT
Marilyn Hilton

PROJECT NO.
245.170
PROJECT
Brown

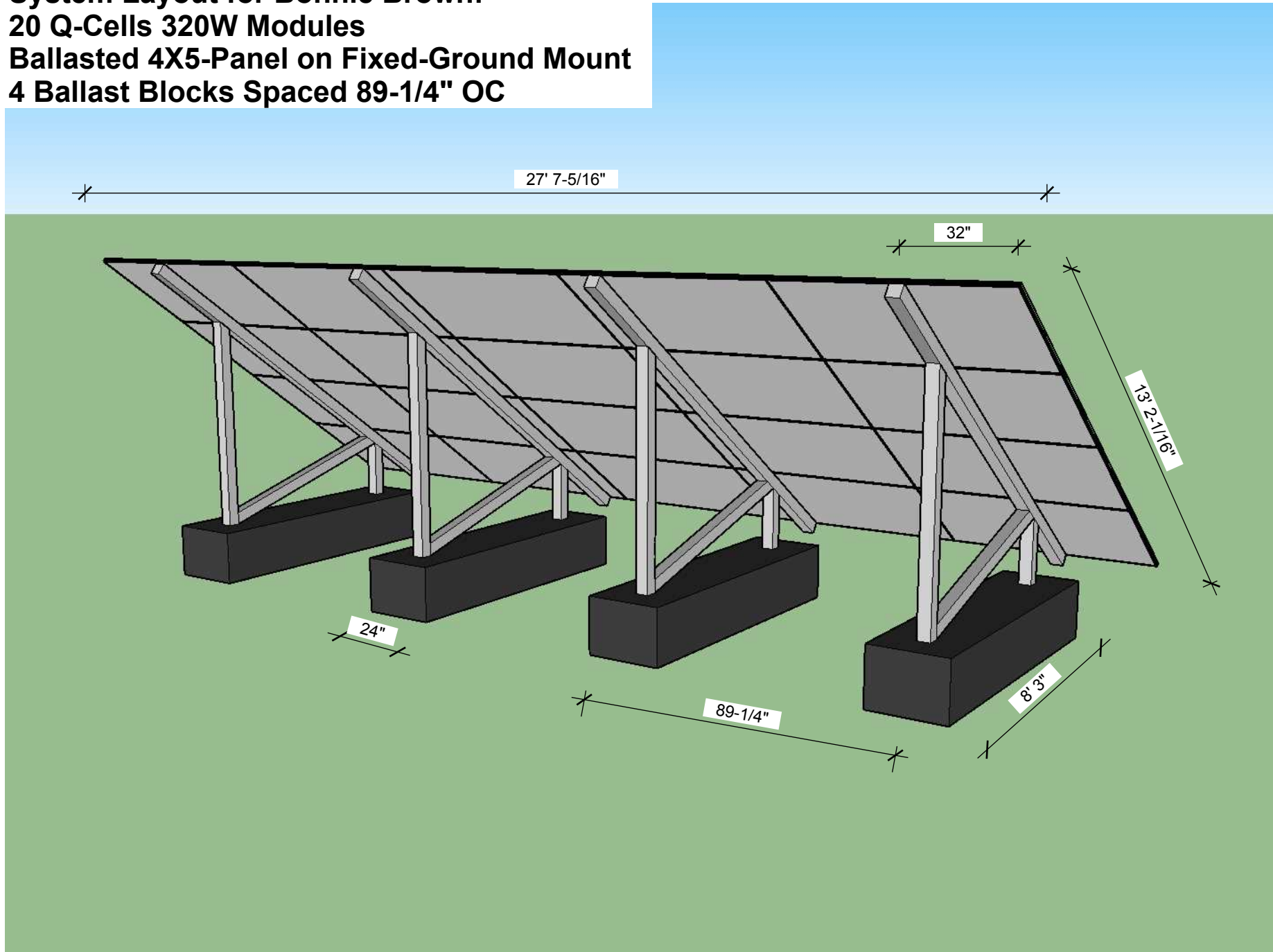
DRAWN BY
EP
DESCRIPTION
Layout





CLIENT Bonnie Brown 253 Durham Point Rd. Durham, NH	ISSUE 12/20/2019 CONSULTANT Marilyn Hilton	PROJECT NO. 245.170 PROJECT Brown	DRAWN BY EP	a
02				

**System Layout for Bonnie Brown:
 20 Q-Cells 320W Modules
 Ballasted 4X5-Panel on Fixed-Ground Mount
 4 Ballast Blocks Spaced 89-1/4" OC**



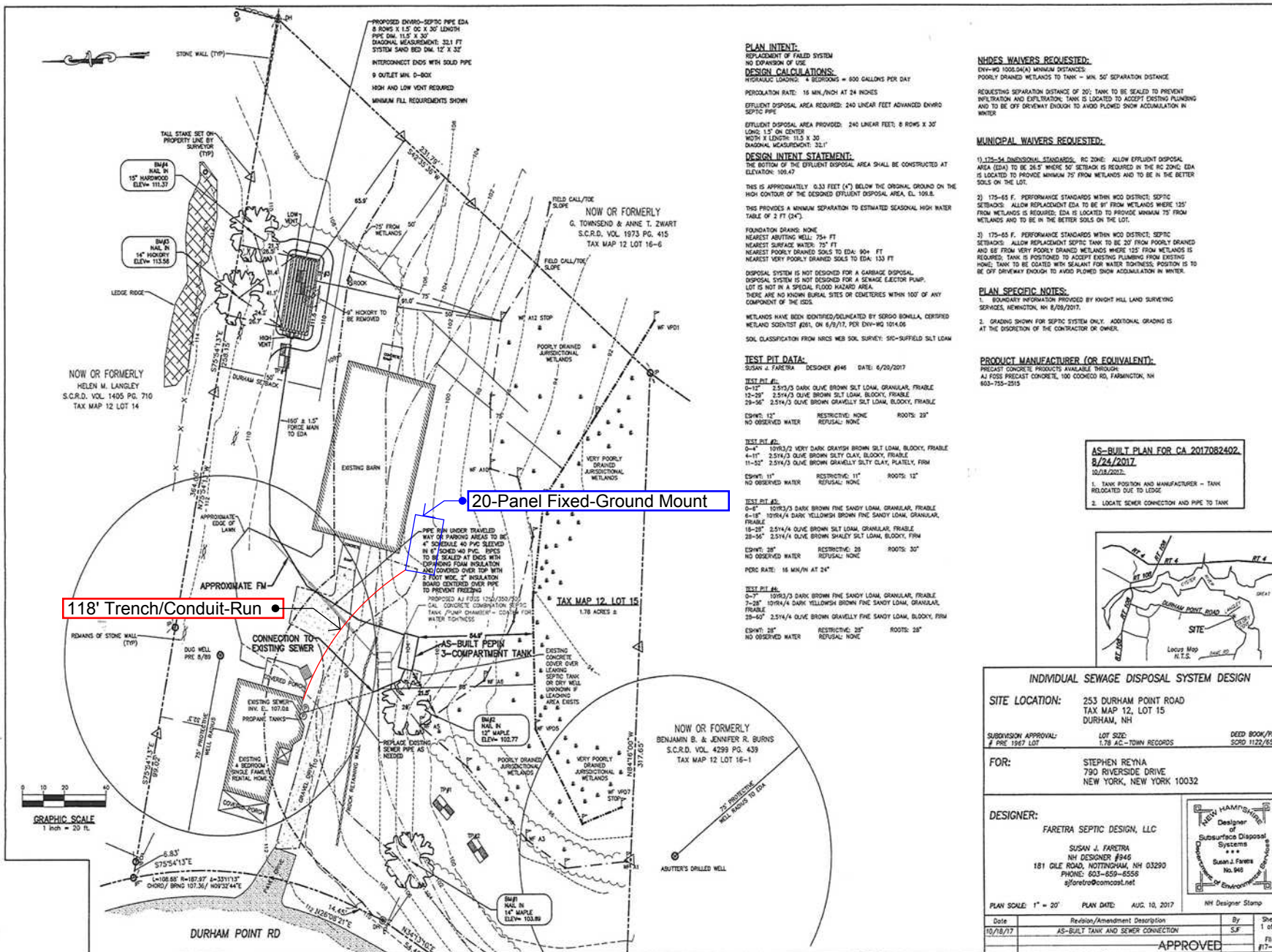
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DRAWN BY
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 DESCRIPTION
 Structural





PLAN INTENT:
REPLACEMENT OF FAILED SYSTEM
NO EXPANSION OF USE

DESIGN CALCULATIONS:
WEATHERLOADING: 4 BEDROOMS = 800 GALLONS PER DAY
PERCOLATION RATE: 15 MIN/IN AT 24 INCHES
EFFLUENT DISPOSAL AREA REQUIRED: 240 LINEAR FEET ADVANCED ENVIRO SEPTIC PIPE

EFFLUENT DISPOSAL AREA PROVIDED: 240 LINEAR FEET, 8 ROWS X 30' LONG, 1.5" ON CENTER
WIDTH X LENGTH: 11.2 X 30'
DIAGONAL MEASUREMENT: 32.1'

DESIGN INTENT STATEMENT:
THE BOTTOM OF THE EFFLUENT DISPOSAL AREA SHALL BE CONSTRUCTED AT ELEVATION: 109.47

THIS IS APPROXIMATELY 0.33 FEET (4") BELOW THE ORIGINAL GROUND ON THE HIGH CONTOUR OF THE RECORD EFFLUENT DISPOSAL AREA (L 100.4).

THIS PROVIDES A MINIMUM SEPARATION TO ESTIMATED SEASONAL HIGH WATER TABLE OF 2 FT (24").

FOUNDATION DRAINS: NONE
NEAREST ABUTTING WELL: 75+ FT
NEAREST SURFACE WATER: 75' FT
NEAREST POORLY DRAINED SOILS TO EDA: 90+ FT
NEAREST VERY POORLY DRAINED SOILS TO EDA: 133 FT

DISPOSAL SYSTEM IS NOT DESIGNED FOR A GARBAGE DISPOSAL SYSTEM. DISPOSAL SYSTEM IS NOT DESIGNED FOR A SEWAGE EJECTOR PUMP.
LOT IS NOT IN A SPECIAL FLOOD HAZARD AREA.
THERE ARE NO KNOWN BURIAL SITES OR CEMETERIES WITHIN 100' OF ANY COMPONENT OF THE OSD.

METLANDS HAVE BEEN IDENTIFIED/DELIMITED BY SERGIO BONELLA, CERTIFIED METLAND SCIENTIST #261, DN 8/9/17, PDI-DIV-1014.06
SOIL CLASSIFICATION FROM NRCS WEB SOIL SURVEY: SFC-SUFFIELD SALT LOAM

TEST PIT DATA:
STEVEN J. FARETRA DESIGNER #948 DATE: 6/20/2017

TEST PIT #1:
0-12" 2.519/3 DARK OLIVE BROWN SILT LOAM, GRANULAR, FRABLE
12-20" 2.514/3 OLIVE BROWN SILT LOAM, BLOODY, FRABLE
20-36" 2.514/3 OLIVE BROWN GRAVELLY SILTY CLAY, PLATEY, FIRM
EDHW: 12" RESTRICTIVE: NONE ROOTS: 23"
NO OBSERVED WATER REFUSAL: NONE

TEST PIT #2:
0-11" 1019/3 VERY DARK GRAYISH BROWN SILT LOAM, BLOODY, FRABLE
11-32" 2.514/3 OLIVE BROWN SILTY CLAY, BLOODY, FIRM
EDHW: 11" RESTRICTIVE: 11" ROOTS: 12"
NO OBSERVED WATER REFUSAL: NONE

TEST PIT #3:
0-4" 1019/3 DARK BROWN FINE SANDY LOAM, GRANULAR, FRABLE
4-18" 1019/4 DARK YELLOWISH BROWN FINE SANDY LOAM, GRANULAR, FRABLE
18-32" 2.514/4 OLIVE BROWN SILT LOAM, GRANULAR, FRABLE
32-56" 2.514/4 OLIVE BROWN SHALEY SILT LOAM, BLOODY, FIRM
EDHW: 28" RESTRICTIVE: 28" ROOTS: 30"
NO OBSERVED WATER REFUSAL: NONE
PERC RATE: 15 MIN/IN AT 24"

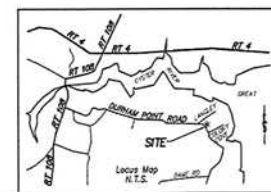
TEST PIT #4:
0-7" 1019/3 DARK BROWN FINE SANDY LOAM, GRANULAR, FRABLE
7-28" 1019/4 DARK YELLOWISH BROWN FINE SANDY LOAM, GRANULAR, FRABLE
28-40" 2.514/4 OLIVE BROWN GRAVELLY FINE SANDY LOAM, BLOODY, FIRM
EDHW: 28" RESTRICTIVE: 28" ROOTS: 25"
NO OBSERVED WATER REFUSAL: NONE

PLAN SPECIFIC NOTES:
1. BOUNDARY INFORMATION PROVIDED BY KNIGHT HILL LAND SURVEYING SERVICES, KEENE, NH 8/29/2017.
2. GRADING SHOWN FOR SEPTIC SYSTEM ONLY. ADDITIONAL GRADING IS AT THE DISCRETION OF THE CONTRACTOR OR OWNER.

PRODUCT MANUFACTURER (OR EQUIVALENT):
PRECAST CONCRETE PRODUCTS AVAILABLE THROUGH:
AL FOSB PRECAST CONCRETE, 100 COOKWOOD RD, FARMINGTON, NH
603-755-2515

AS-BUILT PLAN FOR CA 2017082402
8/24/2017
10/28/2022

1. TANK POSITION AND MANUFACTURER - TANK RELOCATED DUE TO LEUGE
2. LOCATE SEWER CONNECTION AND PIPE TO TANK



INDIVIDUAL SEWAGE DISPOSAL SYSTEM DESIGN

SITE LOCATION: 253 DURHAM POINT ROAD
TAX MAP 12, LOT 15
DURHAM, NH

SUBDIVISION APPROVAL: PRE 1967 LOT
LOT SIZE: 1.78 AC - TOWN RECORDS
DEED BOOK/PAGE: SCRD 1122/854

FOR: STEPHEN REYNA
790 RIVERSIDE DRIVE
NEW YORK, NEW YORK 10032

DESIGNER: FARETRA SEPTIC DESIGN, LLC
SUSAN J. FARETRA
NH DESIGNER #948
181 GLE ROAD, NOTTINGHAM, NH 03290
PHONE: 603-859-6556
s@faretra@comcast.net

PLAN SCALE: 1" = 20' **PLAN DATE:** AUG 10, 2017 **NH Designer Stamp**

Date	Revision/Amendment Description	By	Sheet
10/18/17	AS-BUILT TANK AND SEWER CONNECTION	SJF	1 of 2

APPROVED
DATE 10/19/17



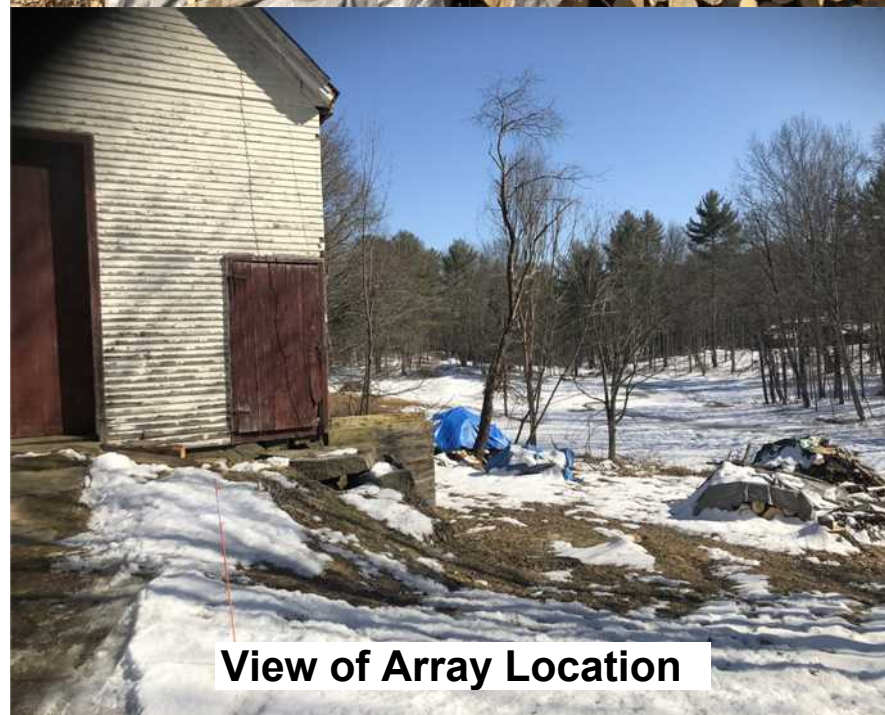
View From Array Looking South



View South of Array Looking NW



View of Array Location



View of Array Location



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