



A & D Klumb Environmental, LLC

May 7, 2019

Mr. Jose Xavier
Hudson Design Group
45 Beechwood Drive
North Andover, MA 01845

RE: Wetland Delineation Report New Bedford 5 MA

Dear Mr. Xavier,

Audra Klumb, NH Certified Wetland Scientist, visited the telecommunications site (New Bedford 5 MA) located at 3057 Acushnet Avenue (Map 132-I Lot 72) on April 30, 2019 to delineate any wetlands and surface waters within the vicinity of the proposed compound expansion.

Wetlands are defined by the US Army Corps of Engineers as: “Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.” Wetlands are typically determined by reviewing soils, vegetation, and hydrology.

Field Review Results:

The 4.6+/-acre property contains an existing telecommunications tower within a fenced gravel topped compound located near the north western portion of the property, beyond the parking lot for the Child & Family Services building. The property is forested along the northeastern property boundary with the remainder developed as parking and the building described above. Within the forested area the boundary of a wetland complex was delineated from the approximate northern property boundary with flag A-1, following the wetland boundary westerly and then southeasterly along the access drive to wetland flag A-22 and continuing off-site to the east with wetland flag A-33. The wetland complex included a central portion of Palustrine Emergent, Persistent, Seasonally Flooded/Saturated (PEM1E) as well as Palustrine Forested, Broad-Leaved Deciduous, Seasonally Flooded/Saturated (PFO1E) along the edges. The dominant vegetation within the wetland included red maple (*Acer rubra*), swamp white oak (*Quercus bicolor*), high bush blueberry (*Vaccinium corymbosum*), Spicebush (*Lindera benzoin*), common reed (*Phragmites australis*), cat greenbriar (*Smilax glauca*), and multiflora rose (*Rosa multiflora*). The soils sampled near the wetland boundary were a thick black mucky loam. The wetland hydrology ranged from pit and mound along the edges to saturated with standing water at the lower elevations. The wetland drained into a culvert that flowed under the parking lot and exited to the southwest of the building. The ditched outlet was marked B-1 through B-4 and is located along the

property boundary. The wetland is included on the OLIVER GIS database as a Wooded Swamp with a stream flowing through the wetland complex. A 100-foot buffer should be included with this wetland boundary. Any buffer impacts will need to be reviewed by the New Bedford Conservation Commission.

Please contact me with any questions.

Sincerely,



Audra L. Klumb, NH CWS#222
President

Enclosure: Wetland Sketch Map

Resources:

1979. Cowardin et.al., *Classification of Wetlands and Deepwater Habitats of the United States*; US Department of the Interior, Fish and Wildlife Service, Washington, DC

2009. Munsell Soil Color Charts, Revised, Printed in 2012. Grand Rapids, MI

2012. Environmental Laboratory. "Army Corps of Engineers Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, (Version 2.0)" ERDC/EL TR-12-1, U.S. Army Engineer Research and Development Center, Vicksburg, MS.

2016. Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. *The National Wetland Plant List: 2016 wetland ratings*. Phytoneuron 2016-30: 1-17. Published 28 April 2016. ISSN 2153 733X downloaded from U.S. Army Corps of Engineers 2016. National Wetland Plant List, Version 3.3 http://wetland_plants.usace.army.mil/



Wetland Sketch Map 4-30-19

Wetland delineation completed by Audra Klumb,
Wetland Scientist, on April 30, 2019.

Wetland flags:

A-1 to A-35, open ends.

B-1 to B-4, open ends.

Wetland lines shown approximately.

This is not a survey of the wetland delineation.

FOR CONSTRUCTION

PREPARED FOR:



118 FLANDERS ROAD
WESTBOROUGH, MA 01581



45 BEECHWOOD DRIVE
N. ANDOVER, MA 01845

TEL: (978) 557-5553
FAX: (978) 336-5586

SOURCE:
CITY OF NEW BEDFORD MA TAX MAP AND MASS OLIVER GIS ONLINE MAPS


SITE SPECIFIC NOTES:

1. SITE SURVEY HAS NOT BEEN CONDUCTED BY HUDSON DESIGN GROUP, LLC FOR THIS PROJECT. ALL SETBACKS SHOWN ON THIS PLAN ARE TAKEN FROM TIP OF PROPOSED ANTENNAS TO PROPERTY LINES AND ARE APPROXIMATE.
2. VERIFY AZIMUTHS W/ RF ENGINEER.
3. PROPERTY LINE INFORMATION IS COMPILED FROM ASSESSORS PLAN AND RECORD DOCUMENTS AND IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD BOUNDARY SURVEY, AND IS SUBJECT TO CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE. A FULL BOUNDARY SURVEY WAS NOT PERFORMED.

ZONES:

MUB	MIXED OF BUSINESS
R-A	RESIDENTIAL A

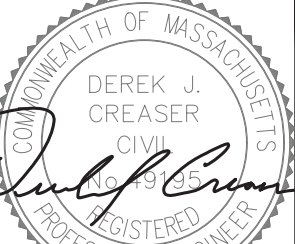
LEGEND:

- PROPERTY LINE - SUBJECT PARCEL
- PROPERTY LINE - ABUTTERS
- ZONING BOUNDARY LINE
-  EXISTING BUILDING

ZONING INFORMATION:

JURISDICTION:	CITY OF NEW BEDFORD	
ZONING DISTRICT TYPE:	MUB - MIXED USE BUSINESS	
DIMENSION REQUIREMENTS:	REQUIRED	PROP.±
FRONT YARD SETBACK:	20'	457' & 181'
SIDE YARD SETBACK:	8'	60'
REAR YARD SETBACK:	20'	N/A

(ALL MEASUREMENTS ARE IN FEET ± UNLESS OTHERWISE NOTED)



COMMONWEALTH OF MASSACHUSETTS
DEREK J. CREASER
CIVIL
No. 49195
REGISTERED PROFESSIONAL ENGINEER

CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

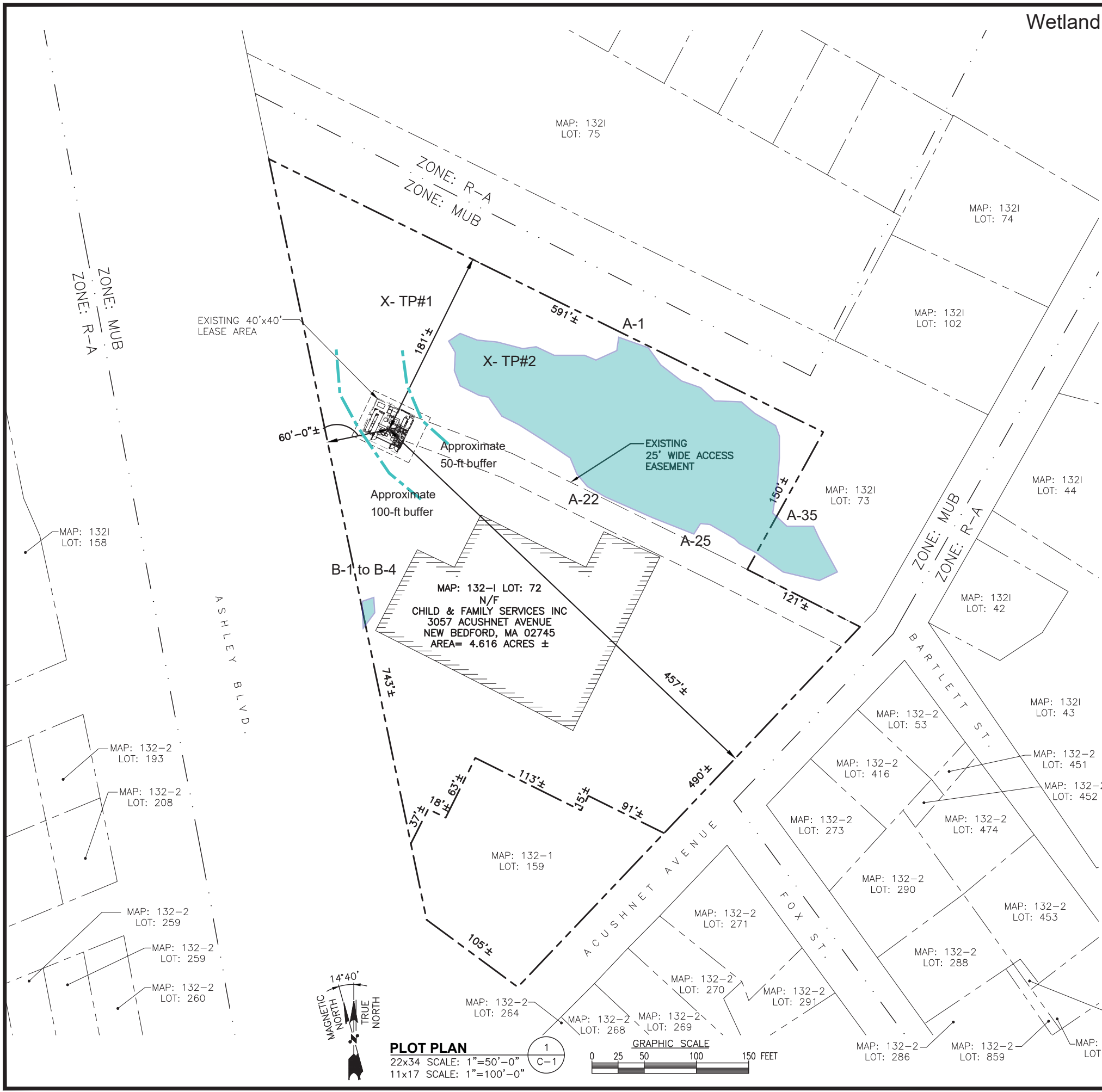
REV.	DATE	DESCRIPTION	BY
6	03/12/19	REVISED ANTENNA MOUNT	HH
5	09/07/18	CHANGED TO 15KW DC GENSET	JH
4	08/10/18	RF & STRUCT. MODIFICATIONS	JH
3	03/14/18	REVISED PER COMMENTS	HH
2	02/08/18	REVISED PER COMMENTS	MR
1	05/05/17	REVISED PER LATEST RFDS	JH
0	09/23/15	ISSUED FOR CONSTRUCTION	JV

SITE NAME:
NEW BEDFORD 5 MA
CROWN SITE # 875083

SITE ADDRESS:
3057 ACUSHNET AVENUE
NEW BEDFORD, MA 02745

SHEET TITLE
PLOT PLAN

SHEET NUMBER
C-1



PLOT PLAN
22x34 SCALE: 1"=50'-0"
11x17 SCALE: 1"=100'-0"

GRAPHIC SCALE
0 25 50 100 150 FEET

FOR CONSTRUCTION

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verizon
118 FLANDERS ROAD
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
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