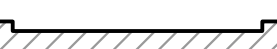












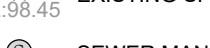
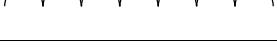


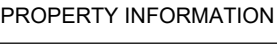


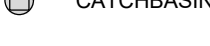
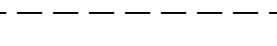

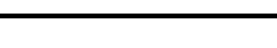
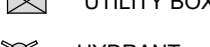



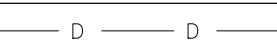

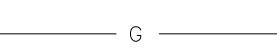


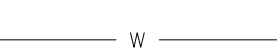
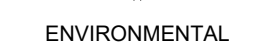
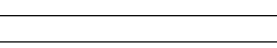


SURVEY NOTES

1. THE TOPOGRAPHY AND EXISTING SITE CONDITIONS DEPICTED HEREON ARE THE RESULT OF AN ON THE GROUND FIELD SURVEY CONDUCTED BY THE HORSLEY WITTEN GROUP, INC. JUNE 2019.
2. HORIZONTAL DATUM IS MASS STATE PLANE COORDINATE SYSTEM. DATUM ESTABLISHED BY SCALING ORTHOMETRIC PHOTOS PROVIDED BY GPS RTK.
3. THE ELEVATIONS DEPICTED HEREON WERE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.
4. THE PROPERTY LINES AND RIGHTS OF WAYS DEPICTED HAVE BEEN ESTABLISHED BY FIELD SURVEY AND DEEDS AND PLANS OF RECORD.
5. PROPERTY LINES AND BUILDINGS FOR ADJUTING PROPERTY OWNERS ARE APPROXIMATE ONLY.
6. THE ACCURACY OF MEASURED PIPE INVERTS AND PIPE SIZES IS SUBJECT TO FIELD CONDITIONS. THE ABILITY TO MAKE VISUAL OBSERVATIONS, DIRECT ACCESS TO THE VARIOUS ELEMENTS AND OTHER CONDITIONS.
7. THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF VARIOUS UTILITY COMPANIES. AND WHEREVER POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY IN THE TOWN OF BOURNE AND "DIGSAFE" (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK IN PREVIOUSLY UNALTERED AREAS TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
8. THE PROPERTY IS LOCATED WITHIN F.I.R.M ZONE X AS SHOWN ON COMMUNITY PANEL NO. 25001C0318J DATED JULY 16, 2014.
9. THE WETLAND DELINEATION SHOWN HEREON WAS CONDUCTED BY THE HORSLEY WITTEN GROUP, INC. ON MAY 2019.
10. REFERENCE PLANS: BARNSTABLE COUNTY REGISTRY OF DEEDS
1.) PLAN BOOK 434 PAGE 84
2.) PLAN BOOK 391 PAGE 40
3.) PLAN BOOK 437 PAGE 50
4.) PLAN BOOK 440 PAGE 21
5.) PLAN BOOK 382 PAGE 91

LEGEND:

GENERAL	SYMBOLS
	 BENCHMARK
	 BOUNDARY
	 CONTROL POINT
	 EXISTING TREE
	 EXISTING SPOT GRADE
	 SEWER MANHOLE
	 DRAIN MANHOLE
	 CATCHBASIN
PROPERTY INFORMATION	 UTILITY BOX
	 HYDRANT
	 UTILITY POLE W/GUY
	 LIGHT POST
	 TP# WASTEWATER/STORMWATER TEST PIT
UTILITIES	 TP# SOIL SAMPLING TEST PIT
	 WF WETLAND FLAG
	 SIGN
	
	
	
ENVIRONMENTAL	
	
	
	

SOIL TEST PIT DATA

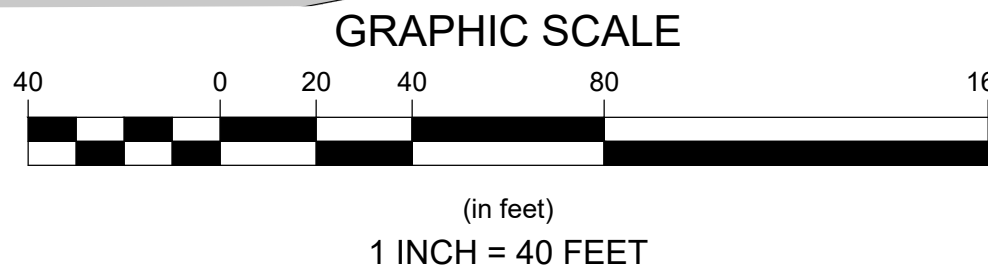
PERFORMED BY: M. LEHMAN
HORSLEY WITTEN GROUP, INC.
DATE: OCTOBER 24, 2019

TP-E		
0"	A	66.2
4"	10 YR 3/2 VERY FINE SANDY LOAM	65.9
14"	10 YR 5/2 VERY FINE SANDY LOAM	65.0
66"	10 YR 5/2 VERY FINE LOAMY SAND	60.7
116"	C2 GLEY 1 2.5/N & GLEY 5/10Y SILT LOAM	56.5
122"	C4 10 YR 7/3 FINE SAND	56.0
168"	C4 10 YR 7/3 FINE SAND	52.2
REDOX OBSERVED AT 66"		
SEEPAGE AT 116"		
NO REDOX OBSERVED BELOW RESTRICTIVE LAYER		
ESHGWT = 52.2'		

SOIL TEST PIT DATA

PERFORMED BY: M. LEHMAN
HORSLEY WITTEN GROUP, INC.
DATE: OCTOBER 24, 2019

TP-F		
0"	A	63.8
6"	10 YR 3/2 FINE LOAMY SAND	63.5
18"	10 YR 5/2 FINE LOAMY SAND	62.3
60"	C2 10 YR 5/2 FINE LOAMY SAND	58.8
78"	C1 GLEY 1 2.5/N & GLEY 5/10Y SILT LOAM	57.3
126"	C3 10 YR 6/3 MEDIUM SAND	53.3
NO GROUNDWATER OBSERVED		
REDOX OBSERVED AT 48"		
NO REDOX OBSERVED BELOW RESTRICTIVE LAYER		
ESHGWT = 53.3'		



SOIL TEST PIT DATA

PERFORMED BY: M. LEHMAN
HORSLEY WITTEN GROUP, INC.
DATE: OCTOBER 24, 2019

TP-C		
0"	A	62.9
5"	10 YR 4/2 SANDY LOAM	62.5
45"	C1 10 YR 6/4 MEDIUM SAND	59.2
68"	C2 10 YR 6/4 GRAVELLY FINE SAND	57.2
80"	C3 10 YR 6/4 FINE SAND	56.2
120"	C3 10 YR 6/4 FINE SAND	52.9
NO GROUNDWATER OR REDOXIMORPHIC FEATURES OBSERVED		
ESHGWT = 52.9'		

SOIL TEST PIT DATA

PERFORMED BY: M. LEHMAN
HORSLEY WITTEN GROUP, INC.
DATE: OCTOBER 24, 2019

TP-B		
0"	A	63.1
6"	10 YR 4/2 SANDY LOAM	62.6
36"	C1 10 YR 6/4 MEDIUM SAND	60.1
66"	C2 10 YR 6/4 GRAVELLY FINE SAND	57.6
84"	C3 10 YR 6/4 FINE SAND	56.1
120"	C3 10 YR 6/4 FINE SAND	53.1
NO GROUNDWATER OR REDOXIMORPHIC FEATURES OBSERVED		
ESHGWT = 53.1'		

SOIL TEST PIT DATA

PERFORMED BY: M. LEHMAN
HORSLEY WITTEN GROUP, INC.
DATE: OCTOBER 24, 2019

TP-D		
0"	A	61.0
8"	10 YR 4/2 SANDY LOAM	60.3
40"	C1 10 YR 6/4 MEDIUM SAND	57.7
62"	C2 10 YR 6/4 GRAVELLY FINE SAND	55.8
74"	C3 10 YR 6/4 FINE SAND	54.8
120"	C3 10 YR 6/4 FINE SAND	51.0
NO GROUNDWATER OR REDOXIMORPHIC FEATURES OBSERVED		
ESHGWT = 51.0'		

SOIL TEST PIT DATA

PERFORMED BY: M. LEHMAN
HORSLEY WITTEN GROUP, INC.
DATE: OCTOBER 24, 2019

TP-A		
0"	A	60.8
10"	10 YR 4/2 SANDY LOAM	60.0
38"	C1 10 YR 6/3 FINE SAND	57.6
50"	C2 10 YR 6/3 GRAVELLY FINE SAND	56.6
68"	C3 10 YR 6/3 FINE SAND	55.1
120"	C3 10 YR 6/3 FINE SAND	50.8
NO GROUNDWATER OR REDOXIMORPHIC FEATURES OBSERVED		
ESHGWT = 50.8'		

SOIL TEST PIT DATA

PERFORMED BY: M. LEHMAN
HORSLEY WITTEN GROUP, INC.
DATE: OCTOBER 24, 2019

TP-6		
0"	A	61.4
12"	10 YR 4/2 FINE SANDY LOAM	60.4
36"	C1 10 YR 6/3 GRAVELLY FINE SAND	58.4
48"	C2 10 YR 6/3 MEDIUM SAND	57.4
120"	C2 10 YR 6/3 MEDIUM SAND	51.4
NO GROUNDWATER OR REDOXIMORPHIC FEATURES OBSERVED		
ESHGWT = 51.4'		

SOIL TEST PIT DATA

PERFORMED BY: M. LEHMAN
HORSLEY WITTEN GROUP, INC.
DATE: OCTOBER 23, 2019

TP-7		
0"	A	59.6
22"	HTM 10 YR 3/4 FINE SANDY LOAM	57.8
24"	Ab 10 YR 4/6 FINE SANDY LOAM	57.6
32"	C1 10 YR 6/6 GRAVELLY FINE SAND	56.9
38"	C2 10 YR 6/3 MEDIUM SAND	56.4
60"	C2 10 YR 6/3 MEDIUM SAND	54.6
NO GROUNDWATER OR REDOXIMORPHIC FEATURES OBSERVED		
ESHGWT = 54.6'		

SOIL TEST PIT DATA

PERFORMED BY: M. LEHMAN
HORSLEY WITTEN GROUP, INC.
DATE: OCTOBER 23, 2019

TP-8		
0"	A	58.7
6"	10 YR 3/4 FINE SANDY LOAM	58.2
21"	B 10 YR 4/6 FINE SANDY LOAM	57.0
45"	C1 10 YR 6/6 GRAVELLY FINE SAND	55.0
84"	C2 10 YR 6/3 MEDIUM SAND	51.7
NO GROUNDWATER OR REDOXIMORPHIC FEATURES OBSERVED		
ESHGWT = 51.7'		

Survey Provided By:
Horsley Witten Group, Inc.
90 Route 6A
Sandwich, MA 02563
Phone: (508) 833-6600
Fax: (508) 833-3150
Dated: JUNE 2019

Registration:



Project Number: 19038
Sheet: 1 of 1

Sheet Number:
LS-1

CAPE VIEW WAY HOUSING
BOURNE, MASSACHUSETTS

EXISTING CONDITIONS

Revisions

Date	By	Appr.	Description
SEPT 2020	EWI	DM	Design

Horsley Witten Group, Inc.
Sustainable Environmental Solutions
90 Route 6A
Sandwich, MA 02563
Phone: (508) 833-6600
Fax: (508) 833-3150