X

Home (/) / Products (products.html) / Water Levels (stations.html?type=Water+Levels) / 8665530 Charleston, SC Favorite Stations ▼

Station Info Tides/Water Levels Meteorological Obs. (/met.html?id=8665530) Phys. Oceanography (/physocean.html?id=8665530) PORTS® (/ports/ports.html?id=8665530) Datums (NAVD) NOAA/NOS/CO-OPS Observed Water Levels at 8665530, Charleston SC From 2023/12/17 00:00 LST to 2023/12/18 23:59 LST 6.72 ft. NAVD88 7.5 5.0 Height in feet (NAVD) NAYD88 -2.5 -2.5 00:00 12/17 03:00 12/17 12:00 12/17 15:00 12/17 06:00 12/18 09:00 12/18 12:00 12/18 12/17 12/18 12/18 — Predictions — Verified — Preliminary — (Observed - Predicted) Options for Units Shift dates 8665530 Charleston Standard 🕶 Back 1 Day Forward 1 Day Timezone **∨** 17 **∨** 2023 LST 6 min 1 hr H/L Day Month To: Datum (datum_options.html) Update **∨** 18 **∨** 2023 -NAVD Plot Data Only

Show Data Listing

These raw data have not been subjected to the National Ocean Service's quality control or quality assurance procedures and do not meet the criteria and standards of official National Ocean Service data. They are released for limited public use as preliminary data to be used only with appropriate caution.

Show nearby stations

Products available at 8665530 Charleston, SC

TIDES/WATER LEVELS

Water Levels (/waterlevels.html?id=8665530)

NOAA Tide Predictions (/noaatidepredictions.html?id=8665530)

Harmonic Constituents (/harcon.html?id=8665530)

Sea Level Trends (/sltrends/sltrends_station.shtml?id=8665530)

Datums (/datums.html?id=8665530)

Bench Mark Sheets (/benchmarks.html?id=8665530)

Extreme Water Levels (/est/est_station.shtml?stnid=8665530)

Reports (/reports.html?id=8665530)

METEOROLOGICAL/OTHER

Meteorological Observations (/met.html?id=8665530)

Water Temp/Conductivity

PORTS®

Charleston Harbor PORTS® (/ports/index.html?port=ch)

PORTS® product page for Charleston (/ports/ports.html?id=8665530)

OPERATIONAL FORECAST SYSTEMS

This station is not a member of OFS

INFORMATION

Station Home Page (/stationhome.html?id=8665530)

Data Inventory (/inventory.html?id=8665530)

Measurement Specifications (/measure.html)

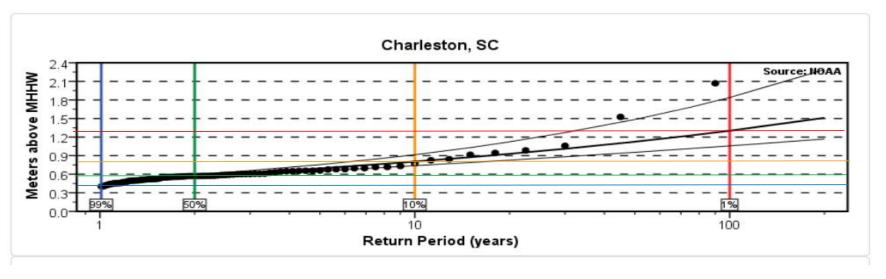
City of Isle of Palms Waterway Blvd. Path - Elevation Study Charleston Harbor Historic Maximum Tides (POR)

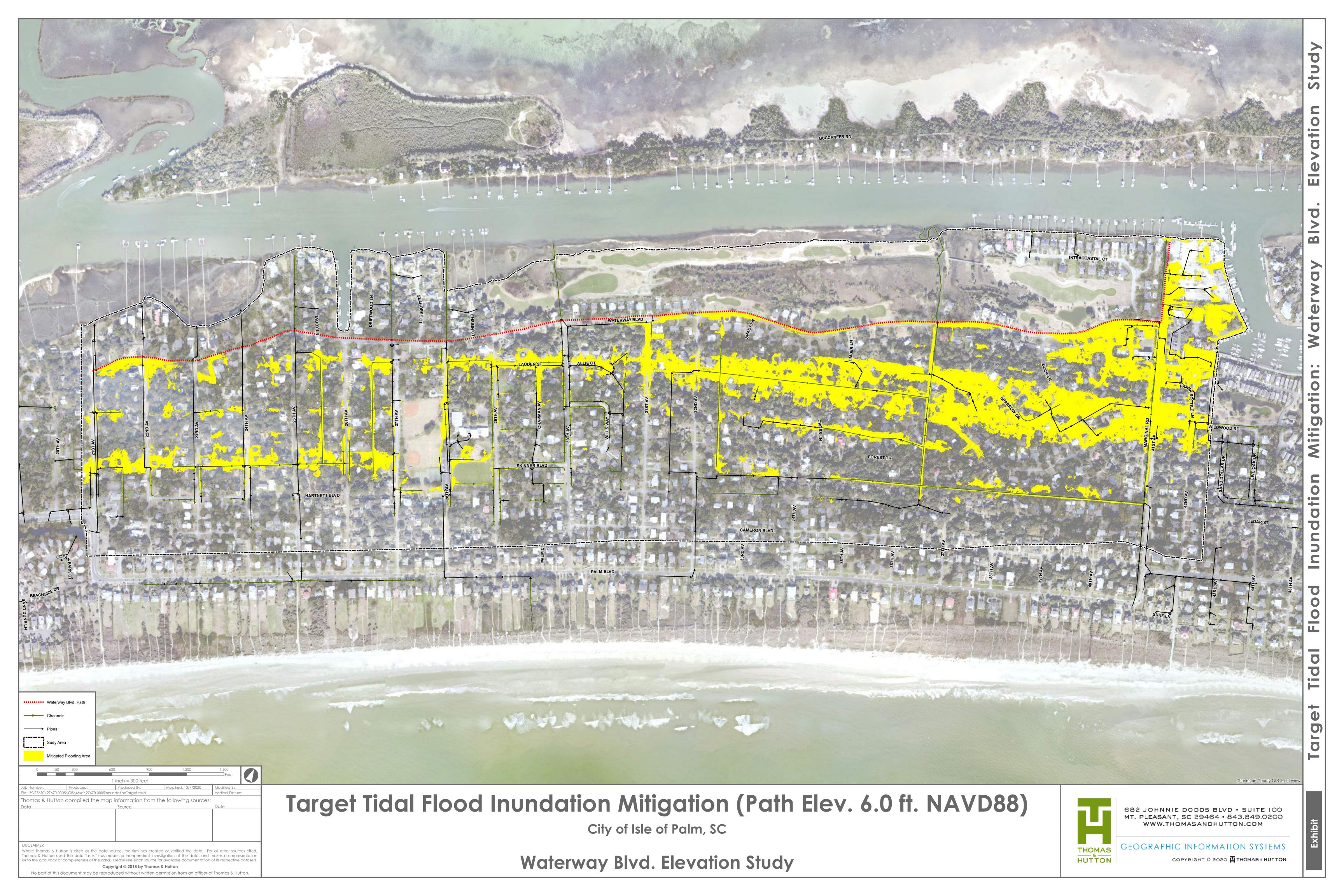
Historia Craata (MILIM)		. (ff.)
Historic Crests (MLLW) (1) 12.52 ft on 09/22/1989	MLLW 12.52	NGVD88 9.38
(2) 10.23 ft on 08/11/1940	10.23	
(3) 9.92 ft on 09/11/2017	9.92	
(4) 9.29 ft on 10/08/2016	9.29	6.15
(5) 8.81 ft on 01/01/1987	8.81	
(6) 8.76 ft on 11/24/2018	8.76	5.62
(7) 8.69 ft on 10/27/2015	8.69	5.55
(8) 8.64 ft on 05/28/1934	8.64	5.50
(9) 8.64 ft on 09/04/1979	8.64	5.50
(10) 8.46 ft on 11/02/1947	8.46	5.32
(11) 8.29 ft on 10/03/2015	8.29	5.15
(12) 8.27 ft on 10/28/2015	8.27	5.13
(13) 8.21 ft on 10/04/2015	8.21	5.07
(14) 8.15 ft on 10/15/1947	8.15	5.01
(15) 8.14 ft on 11/23/2018	8.14	5.00
(16) 8.14 ft on 09/29/1959	8.14	5.00
(17) 8.12 ft on 09/20/2020 (P)	8.12	4.98
(18) 8.11 ft on 06/22/2009	8.11	4.97
(19) 8.09 ft on 09/15/2020 (P)	8.09	4.95
(20) 8.08 ft on 08/30/2019	8.08	4.94
(21) 8.07 ft on 09/19/2020 (P)	8.07	4.93
(22) 8.06 ft on 12/24/2019	8.06	4.92
(23) 8.06 ft on 06/23/2009	8.06	4.92
(24) 8.05 ft on 12/09/2018	8.05	4.91
(25) 8.05 ft on 09/29/2015	8.05	4.91
(26) 8.03 ft on 02/20/2019	8.03	4.89
(27) 8.03 ft on 09/21/2020 (P)	8.03	4.89
(28) 8.02 ft on 08/29/2019	8.02	4.88
(29) 8.01 ft on 06/18/1982	8.01	4.87
(30) 8.01 ft on 07/21/2001	8.01	4.87
(31) 8.01 ft on 12/31/1994	8.01	4.87
(32) 8.01 ft on 09/28/2015	8.01	4.87
(33) 8.00 ft on 01/30/2010	8.00	4.86
	9.14	6

(P): Preliminary values subject to further review. Period of Record (POR): approx. 1980 to present

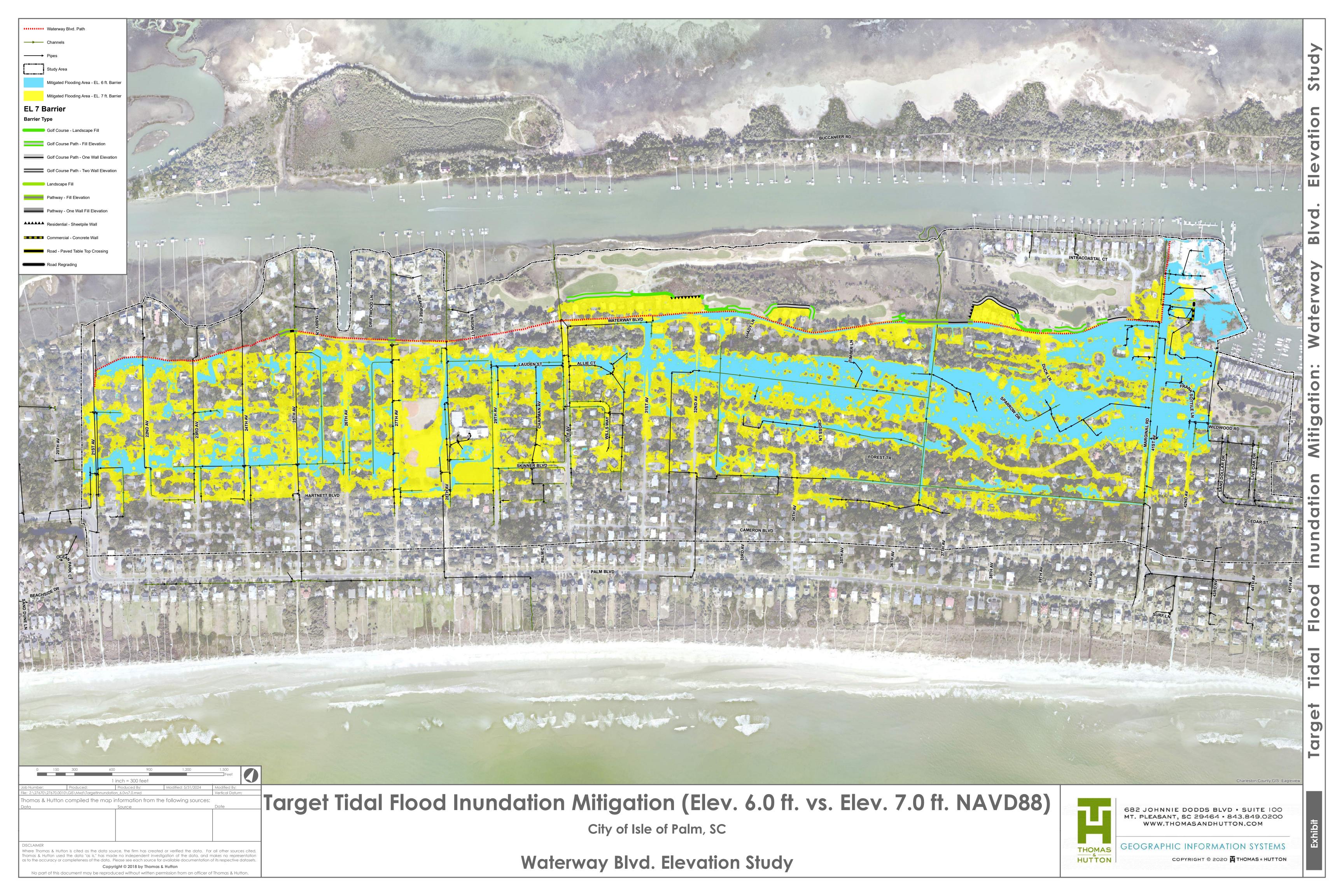
City of Isle of Palms Waterway Blvd. Path - Elevation Study Charleston Harbor Tidal Return Frequencies

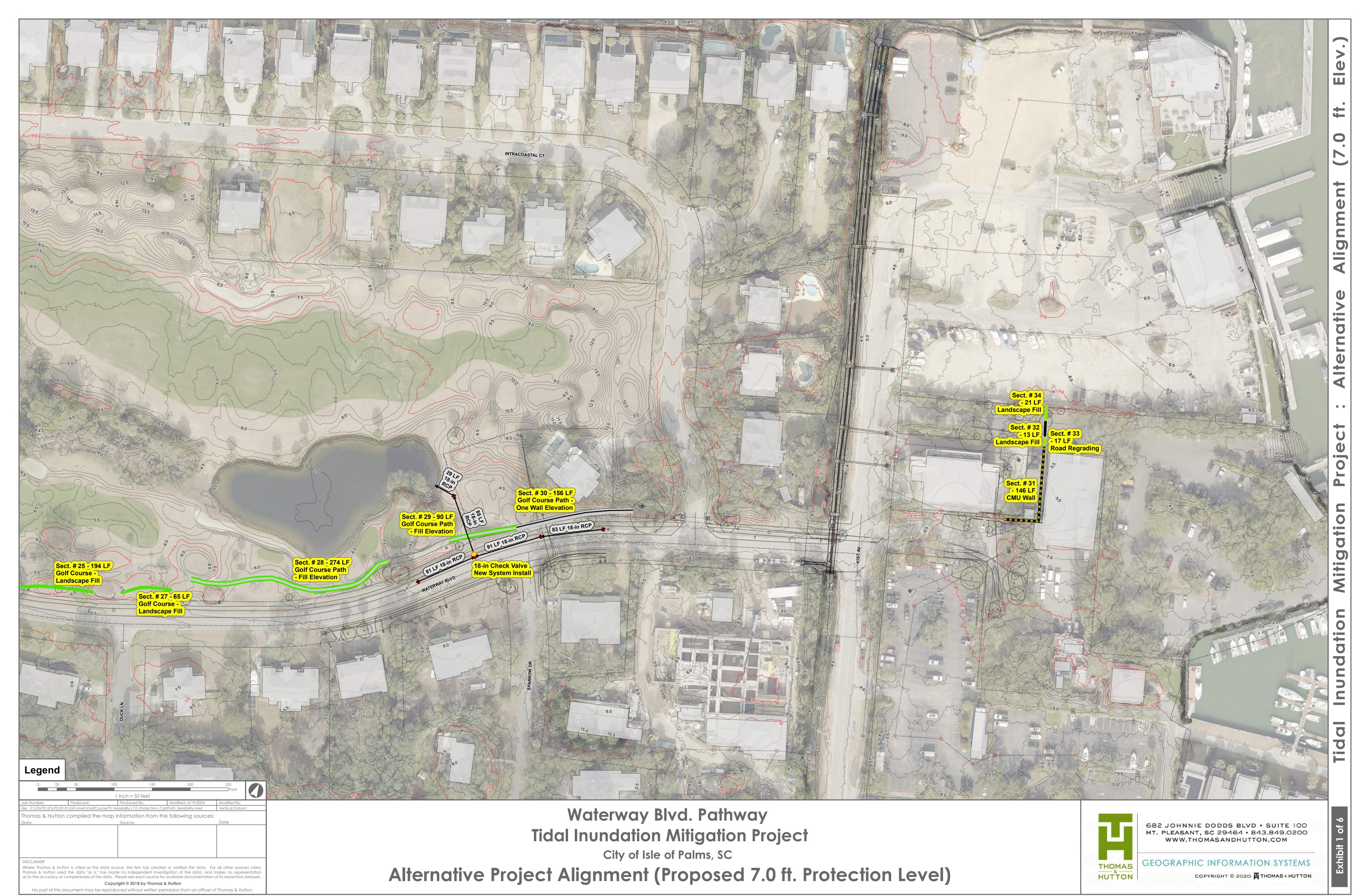
Meters MHHW	Feet MHHW	Feet NAVD88	<u>Annu</u> Prob. Exce	Of	Return Period	
1.33	4.4	7.0	>1	%	+100-yr	
1.18	3.9	6.5	1.7	7%	~59-yr	
1.03	3.4	6.0	3.7	7%	~27-yr	Proposed Target
0.88	2.9	5.5	6.7	′%	~15-yr	
0.72	2.4	5.0	20	%	~5-yr	
0.44	1.44	4.1	99	9	~1-yr	
0.44	1.94	4.6	50		2-yr	
					,	
0.78	2.56	5.2	10		10-yr	
1.29	4.23	6.9	19	%	100-yr	•

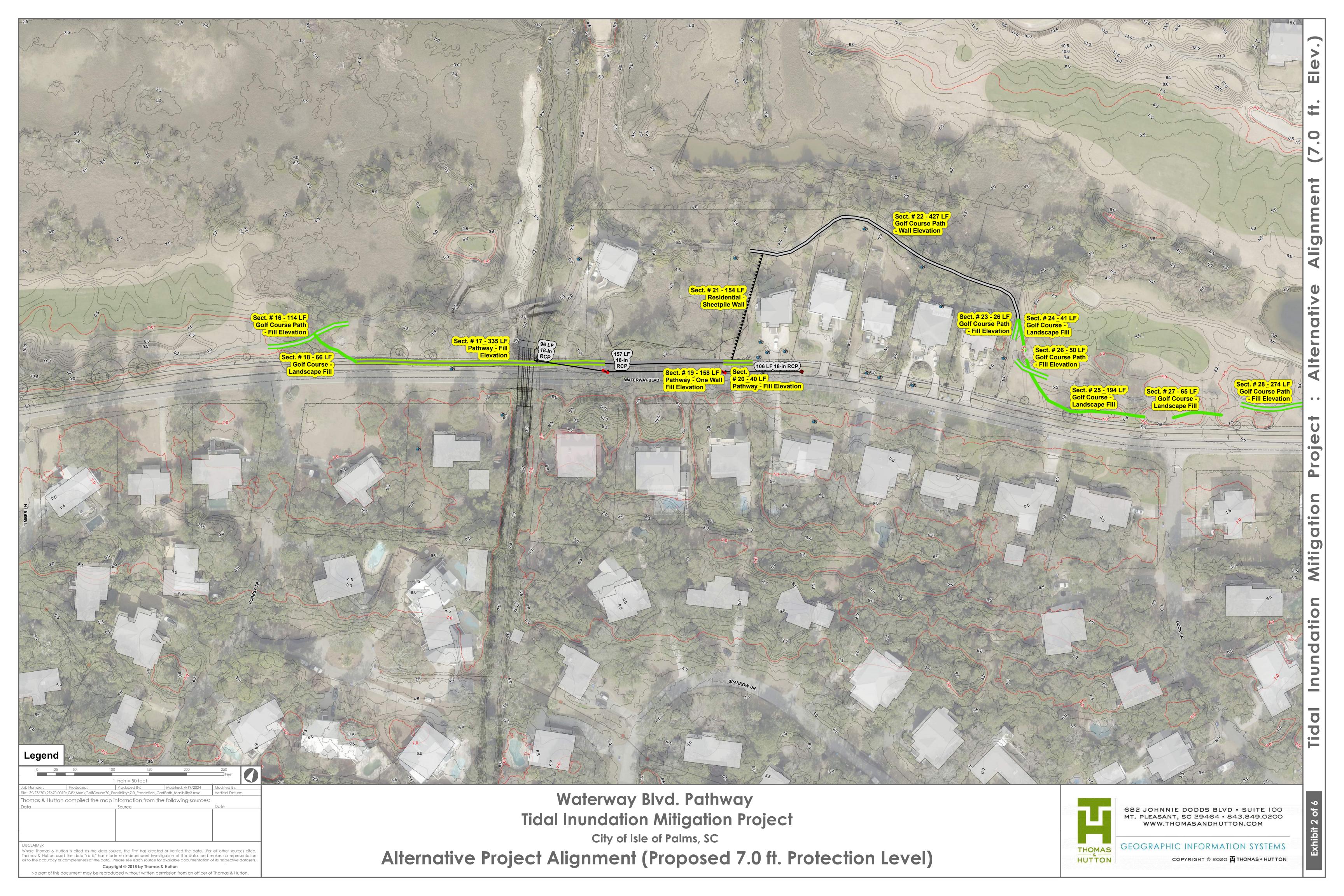


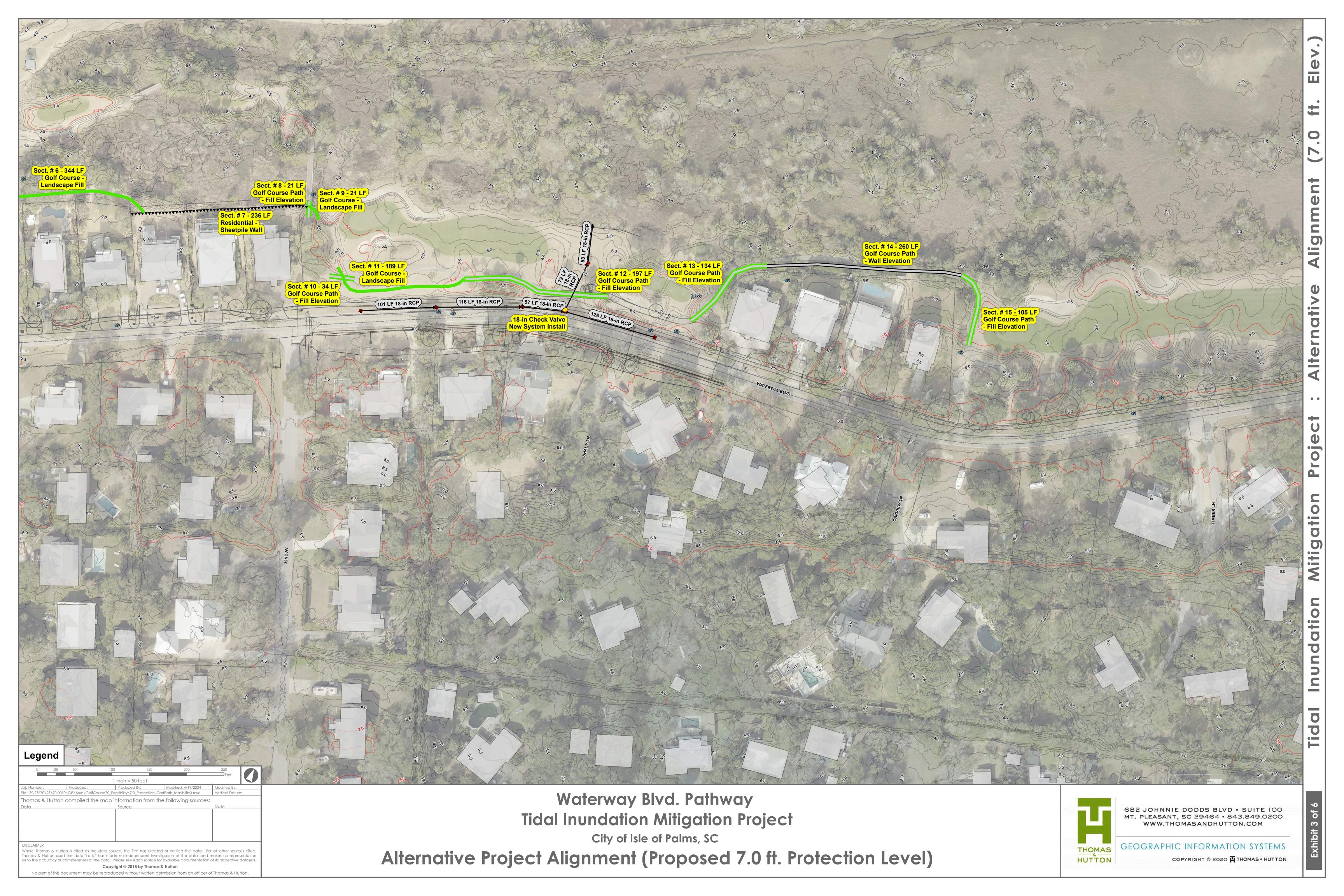










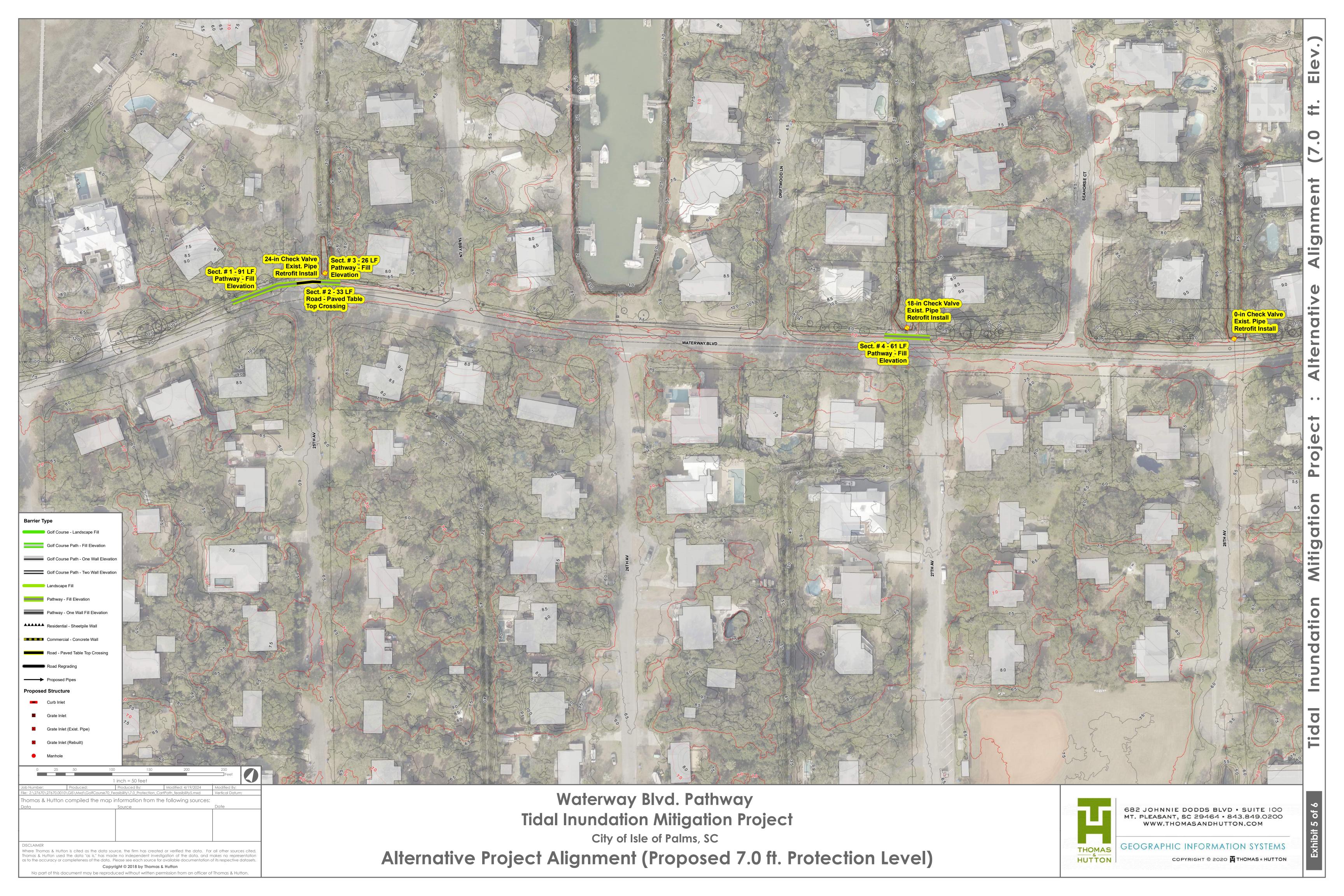


Tidal Inundation Mitigation Project City of Isle of Palms, SC

Alternative Project Alignment (Proposed 7.0 ft. Protection Level)

GEOGRAPHIC INFORMATION SYSTEMS

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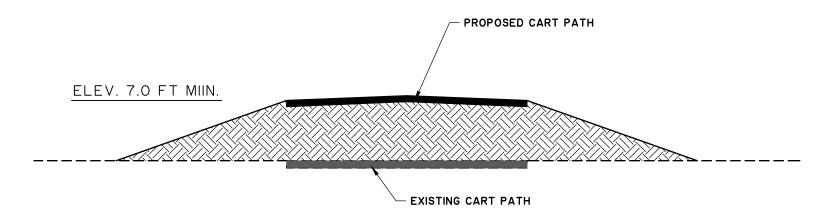


Alternative Project Alignment (Proposed 7.0 ft. Protection Level)

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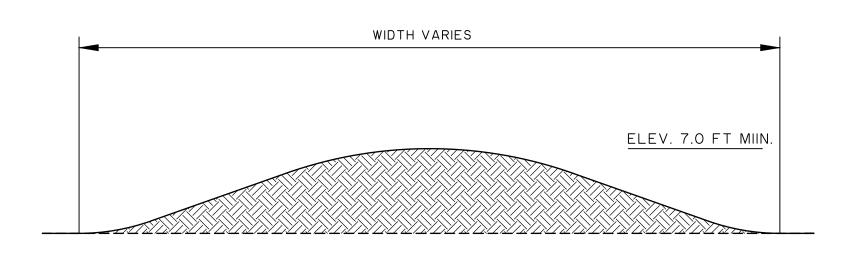
GEOGRAPHIC INFORMATION SYSTEMS

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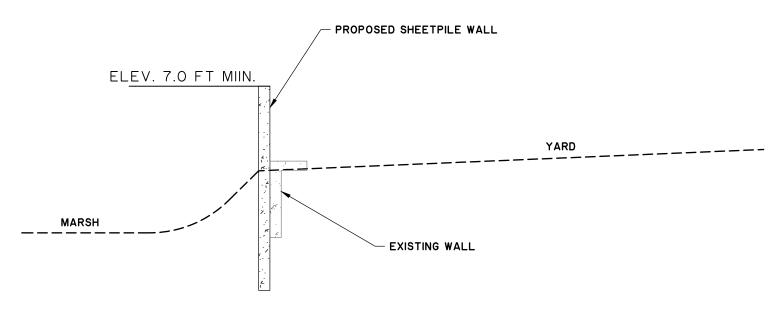
GOLF COURSE PATH FILL ELEVATION

NOT TO SCALE

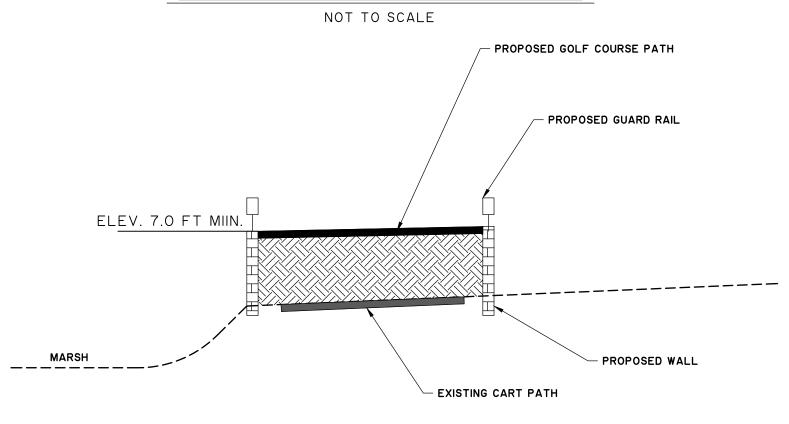


GOLF COURSE LANDSCAPE FILL

NOT TO SCALE

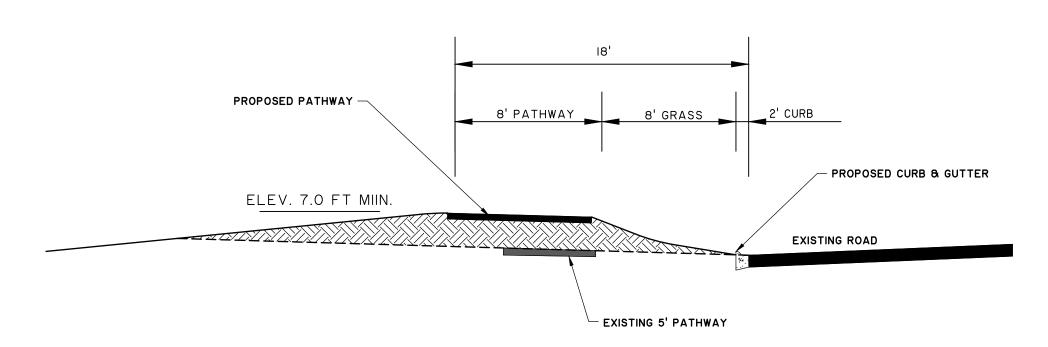


RESIDENTIAL SHEET PILE WALL



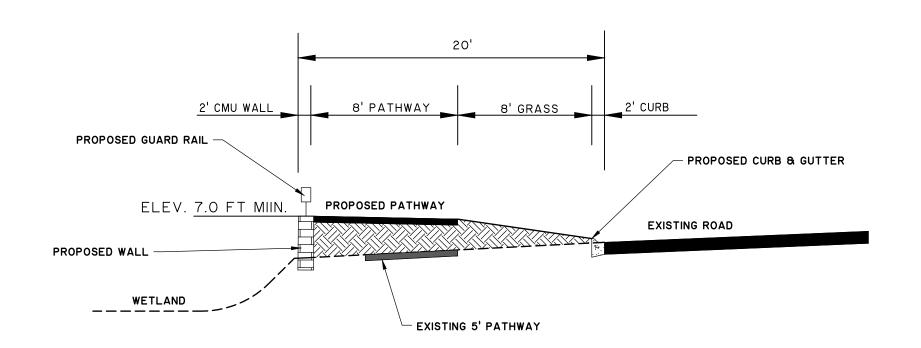
GOLF COURSE PATH TWO WALL ELEVATION

NOT TO SCALE



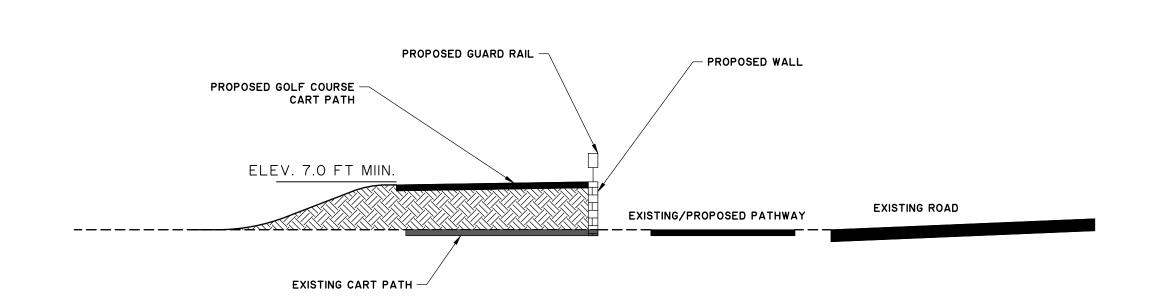
PATHWAY FILL ELEVATION

NOT TO SCALE



PATHWAY ONE WALL ELEVATION

NOT TO SCALE



GOLF COURSE PATH ONE WALL ELEVATION

NOT TO SCALE

TYPICAL CROSS-SECTIONS

WATERWAY BLVD

ISLE OF PALMS, CHARLESTON COUNTY, SC PREPARED FOR: CITY OF ISLE OF PALMS

PREPARED BY:

682 Johnnie Dodds Blvd. • Suite 100 Mt. Pleasant, SC 29464 • 843.849.0200

www.thomasandhutton.com

DATE: 4/19/2024 SCALE: NOT TO SCALE SHEET: N/A

Isle of Palms, SC Waterway Blvd. Pathway Tldal Inundation Mitigation Project Section Implementation and Cost Estimate

Total Project Cost (to achiece 7.0 ft. NAVD88 protection level)						Implement as part of Pathway Project	
Section Description			Est. Cost			Est. Cost	
1 Pathway - Fill Elevation		\$	11,155		\$	11,155	
2 Road - Paved Table Top Crossing		\$	2,449		\$	2,449	
3 Pathway - Fill Elevation		\$	3,187		\$	3,187	
4 Pathway - Fill Elevation		\$	7,684		\$	7,684	
5 Golf Course Path - Fill Elevation		\$	52,739		\$	52,739	
6 Golf Course - Landscape Fill		\$	9,810		\$	9,810	
7 Residential - Sheetpile Wall		\$	944,000	Х	Ψ	0,010	
8 Golf Course Path - Fill Elevation		\$	2,010	Х			
9 Golf Course - Landscape Fill		\$	436	Х			
10 Golf Course Path - Fill Elevation		\$	3,254	,	\$	3,254	
11 Golf Course - Landscape Fill		\$	1,225		\$	1,225	
12 Golf Course Path - Fill Elevation		\$	18,856		\$	18,856	
13 Golf Course Path - Fill Elevation		\$	14,411		\$	14,411	
14 Golf Course Path - Wall Elevation		\$	280,442	Х	Ψ	- 1, 1	
15 Golf Course Path - Fill Elevation		\$	10,050	^	\$	10,050	
16 Golf Course Path - Fill Elevation		\$	12,261		\$	12,261	
17 Pathway - Fill Elevation		\$	48,576		\$	48,576	
18 Golf Course - Landscape Fill		\$	1,882		\$	1,882	
19 Pathway - One Wall Fill Elevation		\$	100,557		\$	100,557	
20 Pathway - Fill Elevation		\$	5,901		\$	5,901	
21 Residential - Sheetpile Wall		\$	1,560,000	Х	Ψ	0,001	
22 Golf Course Path - Wall Elevation		\$	247,072	Х			
23 Golf Course Path - Fill Elevation		\$	2,181	Х			
24 Golf Course - Landscape Fill		\$	531	Х			
25 Golf Course - Landscape Fill		\$	4,024	^	\$	4,024	
26 Golf Course Path - Fill Elevation		\$	5,377		\$	5,377	
27 Golf Course - Landscape Fill		\$	421		\$	421	
28 Golf Course Path - Fill Elevation		\$	29,468		\$	29,468	
29 Golf Course Path - Fill Elevation		\$	9,679		\$	9,679	
30 Golf Course Path - One Wall Elevation		\$	99,284		\$	99,284	
31 CMU Wall		\$	73,000		\$	73,000	
32 Landscape Fill		\$	169		\$	169	
33 Road Regrading		\$	1,730		\$	1,730	
34 Landscape Fill		\$	272		\$	272	
	Sub-Total		3,564,094		\$	527,423	
Duning and Improvement (On a march Dun)		φ.	100.075		φ.	100.075	
Drainage Improvement (Sparrow Dr.)		\$	133,875		\$	133,875	
Drainage Improvement (Forest Trail Outfall)		\$	106,375		\$	106,375	
Drainage Improvement (Shady Ln.)		\$	242,425		\$	242,425	
Drainage Improvement (23rd Ave.)		\$	47,350		\$	47,350	
Drainage Improvement (22rd Ave.)	Sub-Total	\$ \$	66,275 596,300		* *	66,275 596,300	
	i stat	7	,		Ψ	-30,300	
Check Valves (7) - Exist. Pipes/Outfalls		\$	84,000		\$	84,000	
Other Pathway Widening/Paving		\$	517,511		\$	517,511	
	Sub-Total	\$	601,511		\$	601,511	
	Total	\$	4,761,905		\$	1,725,233	
Conting	-	1,190,476		\$	431,308		
-	Grand Total		5,952,381		\$	2,156,542	
		+	2,202,001		Ψ	_,,	