



## **Public Works Committee**

4:30 p.m., April 12, 2021

Council Chambers

1207 Palm Boulevard, Isle of Palms, South Carolina

### **Public Comment:**

All citizens who wish to speak during the meeting must email their first and last name, address and topic to [rhanna@iop.net](mailto:rhanna@iop.net) no later than **3:00 p.m. the day before the meeting.**

Citizens may also provide public comment here:

<https://www.iop.net/public-comment-form>

### **Agenda**

1. **Call to order** - and acknowledgement that the press and public have been duly notified of the meeting in accordance with the Freedom of Information Act.
2. **Approval of previous meeting's minutes** – March 3, 2021
3. **Citizens' Comments**
4. **Department Report** – Director Pitts and Assistant Director Asero
5. **Old Business**
  - a. Update on Phase III Drainage Project, small internal projects and Waterway Boulevard path elevation – Presentation by Thomas & Hutton
  - b. Update on Island Wide Drainage Master Plan RFP
  - c. Update on Non-Standard Service Fund eligible projects for FY22, FY23 and FY24
6. **New Business**
  - a. Consideration of change order in the amount of \$43,300 to the Thomas & Hutton contract for additional permitting efforts for the Phase III Drainage project
  - b. Consideration of replacement of 2003 Mack Flatbed in the amount of \$97,260 [FY21 Budget, Public Works, Capital Projects Fund, \$40,000; Hospitality Tax Fund, \$40,000 and State Accommodations Fund, \$40,000]
  - c. Consideration of FY22 CTC "C" funding request of eligible new construction projects
  - d. Discussion of the creation of an Environmental Advisory Committee
  - e. Discussion of beach traffic and parking
7. **Miscellaneous Business**

Next Meeting Date: 4:30 p.m., Wednesday, May 5, 2021
8. **Executive Session** – If needed
9. **Adjournment**



**PUBLIC WORKS COMMITTEE**  
**4:30pm, Wednesday, March 3, 2021**  
**Virtual Meeting via Zoom call due to COVID-19 Pandemic**  
**broadcasted live on YouTube: <https://www.youtube.com/user/cityofisleofpalms>**

**MINUTES**

**1. Call to order**

Present: Council members Smith, Streetman, Ward

Staff Present: Asst. Administrator Hanna, Director Pitts, Director Kerr, Asst. Director Asero

**2. Approval of previous meeting's minutes – February 3, 2021**

Council Member Streetman made a motion to approve the minutes of the February 3, 2021 meeting, and Council Member Smith seconded the motion. The motion passed unanimously.

**3. Citizens' Comments -- none**

**4. Department Reports – Director Pitts and Assistant Director Asero**

Director Pitts reported that garbage and yard debris totals for January were as expected but miscellaneous debris collection was higher than normal. Vehicle maintenance is over budget for January, but Director Pitts said the year will end within budget.

Asst. Director Asero reported that Eadie's has been on the island working at two places on 29<sup>th</sup> Avenue, 45<sup>th</sup> Avenue, and the municipal lot. Charleston County repaired drainage at 25<sup>th</sup> Avenue. The pipe installed at Driftwood Lane is complete.

Facilities maintenance work included exterior painting at the Public Works building, fencing repair at the Public Safety building, installation of parking stops in the municipal lots, and repair of the backflow preventer and waterline at the watersports dock.

He also detailed the work completed at the Front Beach, including the installation of the new patio, repairs of the brick paver aprons on Ocean Boulevard, Comcast's replacement of broken utility boxes, and the removal of old Front Beach streetlights.

Debris was cleaned from the Connector by Public Works staff and the sweeping contractor. Public Works staff also installed ROC at Forest Trail and completed heavy pruning at the 40<sup>th</sup> Avenue beach access.

Council Member Smith asked about the possibility of photo documenting the debris from the Connector by the Public Works staff. Director Pitts said that time does not always allow for taking pictures of the debris. During the busy season, Fire and Police staff also pickup debris.

**5. Old Business**

**A. Update on Phase III Drainage Project, small internal projects, and Waterway Boulevard path elevation – presentation by Thomas & Hutton**

Director Kerr reported that Thomas & Hutton has submitted four of five permits for the larger outfall projects. Thomas & Hutton has received positive feedback from OCRM and the Army Corps of Engineers. City staff continues to work with Wild Dunes on aligning easements for the 41<sup>st</sup> Avenue outfall portion of the project.

Construction on the Forest Trail and 30<sup>th</sup> Avenue outfalls is expected to begin in September 2021 and take approximately 9 months to complete. Work on the 41<sup>st</sup> Avenue outfall is expected to begin in September 2022 and be completed in early 2023.

Regarding the smaller internal projects, Director Kerr said Gulfstream is working on three of those projects at 41<sup>st</sup> Avenue.

Staff recently received the cost estimates from Thomas & Hutton for the Waterway Boulevard improvements. The estimate is higher than expected, but he said it also needs more study to understand how much additional is required from the City. Director Kerr said lighting the path was not part of the estimate and that may not be something Thomas & Hutton could do as part of their work.

**B. Discussion of Dominion Energy's Non-Standard Service Fund and list of eligible projects**

Council Member Ward said he would like to make a recommendation to City Council regarding these projects so they can be included in the FY22 budget discussions. Committee members discussed the projects and potential impacts of construction on the community. Committee members agreed to suggest projects 1, 3, and 4 (undergrounding utilities at the City Marina, 21<sup>st</sup> Avenue, and 14<sup>th</sup> Avenue) be included in the FY22 budget.

**6. New Business**

**A. Discussion of FY22 Operating Budget for the Public Works Department**

Administrator Fragoso reviewed the highlights of the Public Works department operating budget. She said work is still being done on salaries. An increase in the contingency monies available for smaller drainage issues is proposed. \$192,000 is included for the completion of a Masterplan for Drainage. The project will begin in FY21 and be completed in FY22.

Director Pitts suggested looking at fuel and oil costs across all departments as costs have recently risen.

**B. Discussion of upcoming Phase IV Drainage – Island-wide Drainage Masterplan RFP**

Director Kerr said that once Phase III Drainage is complete the City would like to a plan studying the drainage needs from 30<sup>th</sup> Avenue to Breach Inlet. In addition, they would like a plan that looks island wide going forward of how the City is to maintain the existing drainage system. This would include looking at how much is put aside annually in contingency, what City codes allow in terms of development, and giving the City a long-range roadmap for overall maintenance. He added the plan would prioritize which projects to work on.

Committee members agreed this is a good proactive approach to the drainage issues on the island. Administrator Fragoso said the Planning Commission will be involved in the process, but ultimately the final recommendation to the full City Council would come from this committee as to the best vendor for this project.

**7. Miscellaneous Business**

The next meeting of the Public Works Committee will be Wednesday, April 7, 2021 at 4:30pm.

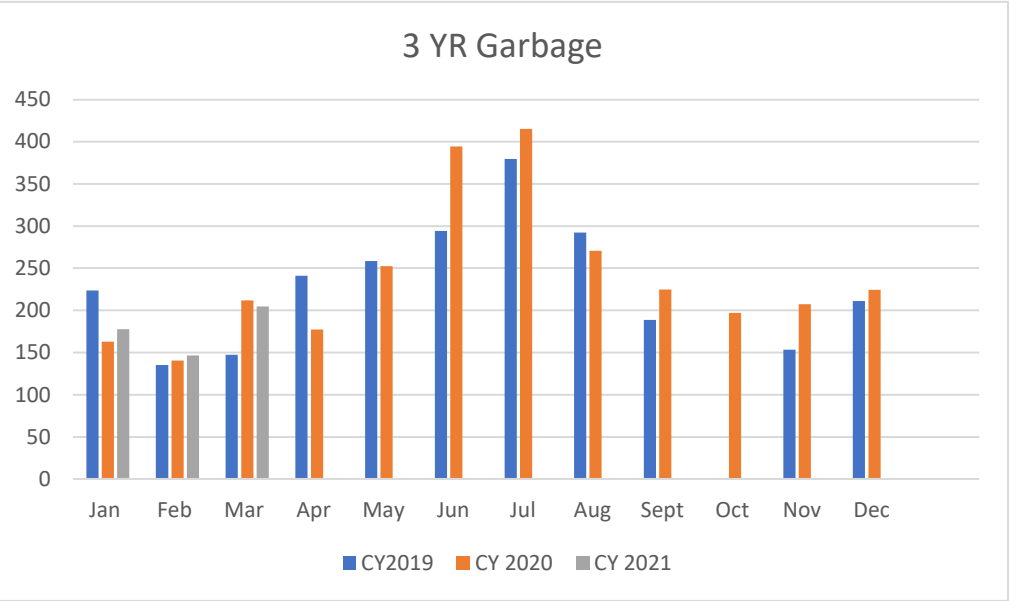
**8. Adjournment**

Council Member Smith made a motion to adjourn, and Council Member Streetman seconded the motion. The meeting was adjourned at 5:24pm.

Respectfully submitted,

Nicole DeNeane  
City Clerk

	CY2019	CY 2020	CY 2021
Column1			
Jan	223.61	162.77	177.84
Feb	135.17	140.66	146.48
Mar	147.4	212.04	204.6
Apr	241.17	177.52	
May	258.45	252.56	
Jun	294.31	394.38	
Jul	379.48	415.12	
Aug	292.36	270.71	
Sept	188.86	224.87	
Oct	Dorian	196.94	
Nov	153.27	207.44	
Dec	211.04	224.45	



General duties

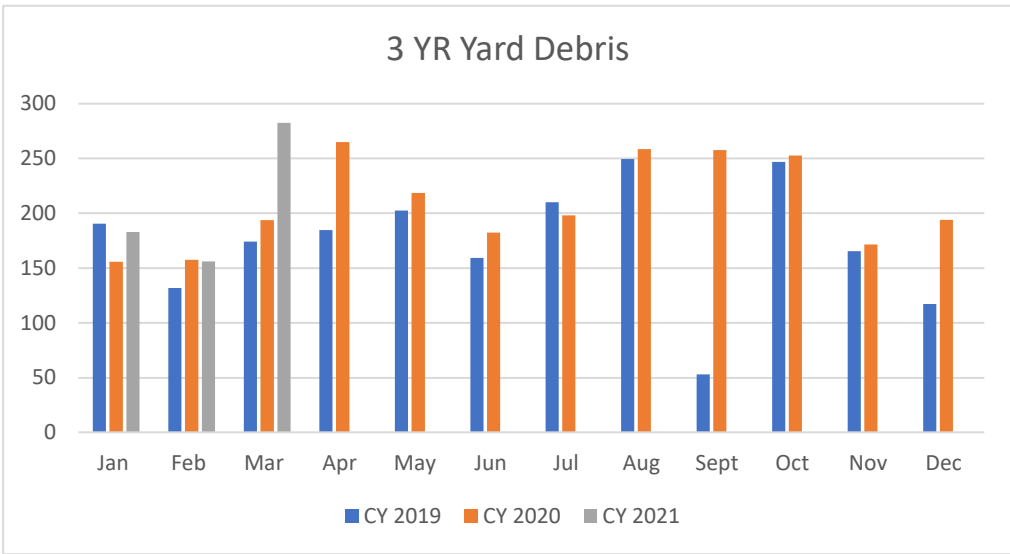
Sanitation:

39.18 tons of misc. debris in March  
was transported to Palmetto Commerce Pkwy. \*\*

VEHICLE MAINTENANCE

Beginning Budget \$90,000.00

	CY 2019	CY 2020	CY 2021
Column1			
Jan	190.61	155.93	183.07
Feb	131.74	157.44	156.06
Mar	174.3	193.74	282.37
Apr	184.59	265.04	
May	202.48	218.67	
Jun	159.4	182.49	
Jul	209.97	198.07	
Aug	249.39	258.37	
Sept	53.11	257.64	
Oct	246.75	252.81	
Nov	165.36	171.54	
Dec	117.26	194.08	



Fund 10 GENERAL FUND			
03/01/2021	10-4620.5017 VEHICLE MAINTENANCE	BEG. BALANCE	55,581.21
03/04/2021 AP	VOID Void Invoice 01W5544.02 00029	- 6,452.42	49,128.79
03/04/2021 AP INV	PW-26 MACK TRUCK FROM PWD TO HUGHES MOTO	350.00	49,478.79
03/08/2021 AP INV	WELDING OF FLAT BED TRUCK	594.83	50,073.62
03/09/2021 AP INV	PW-16 TIRE REPLACEMENT WITH SERVICE CALL	665.27	50,738.89
03/09/2021 AP INV	PWD "BULLET ROLLER BAR"	232.76	50,971.65
03/12/2021 AP INV	T-BOLT CLAMPS, SUCTION HOSES, ELBOW, ADA	58.02	51,029.67
03/15/2021 AP INV	PW-26 2014 MACK - CHECK ENGINE LIGHT -	12,132.93	63,162.60
03/19/2021 AP INV	PW-26 2014 MACK - CHECK ENGINE LIGHT -	1,840.34	65,002.94
03/23/2021	CR RCPT MISCELLANEOUS	58.02	64,944.92
03/25/2021 AP INV	T-BOLT CLAMP & HOSE ASSEMBLY - PWD	132.87	65,077.79
03/26/2021 AP INV	TUBING ASSEMBLY & (2) HOSE ASSEMBLY	212.05	65,289.84
03/30/2021 AP INV	2 "CARLISLE 560443 25X9X12 TIRES - PWD	307.02	65,596.86
03/31/2021	10-4620.5017 END BALANCE	16,526.09	65,596.86

REMAINING BALANCE

24,403.14

Action Items

# **PUBLIC WORKS MARCH 2021**

Assistant director of Storm water and Facilities

## **Drainage**

- Charleston county 25<sup>th</sup> Ave drainage repair scheduled.
- Charleston county stormwater review plans for new home construction.
- Drainage plan and RFB for 34<sup>th</sup> and Hartnett.
- Small internal drainage projects.

## **Facilities**

- Painting of front beach white fence by public works.
- Repair of broken irrigation main lines at city hall.
- Repair of broken parking lot lights at the marina.
- Scheduling city hall generator PM service.
- A/C repair at city hall.
- PM filter change on public works fuel dispensers.
- Estimate for concrete pad for generator at the Recreation center.
- Repair of a broken electrical line for the fuel pumps at the marina.
- Repair/reprogram of fuel pump software at the public safety building.
- Estimates for city hall office painting.

## **Front beach**

- Clean up of parking lot / Front beach Ocean Blvd. trash and debris by public works.
- Ordering of supplies and managing cleaning crews for restrooms.
- Removal of ROC from the municipal lot and installing at public works/city hall.
- Second repair of brick paver aprons on Ocean Blvd.
- Painting of city owned street light poles at 14<sup>th</sup> and Palm Blvd. complete.
- Installation of concrete aprons around the drop inlets at municipal lot B.

## **Landscaping / Rights of way / Connector / Parks**

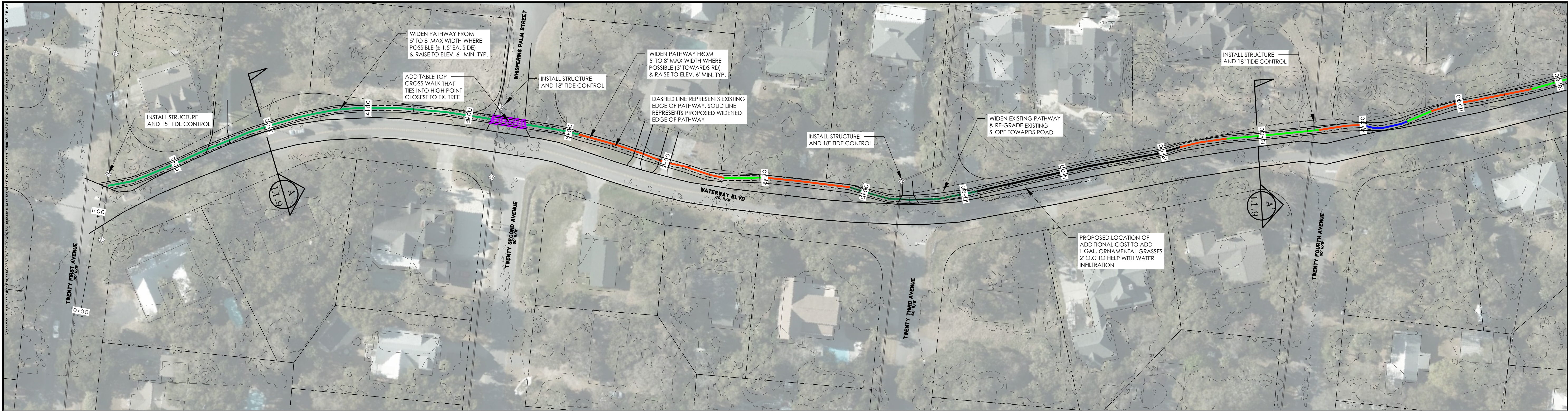
- Clean up of debris on the connector by public works and sweeping contractor.
- Pleasant places ROW contract amendment due to SCDOT parking plan on Palm Blvd.
- Pleasant places annual pine straw and mulch to front beach.
- Maintenance of Palm Blvd.
- Cutting and clean up of Breech inlet parking lot for SCDOT expansion.

## **Compactor / Dumpster**

- Cleaned compactor pad and recycling area.
- Removal of bulk items left by the PSB compactor.
- Repair of broken hydraulic line and PM service to city compactor.
- Pressure washing of city trash compactor by public works.

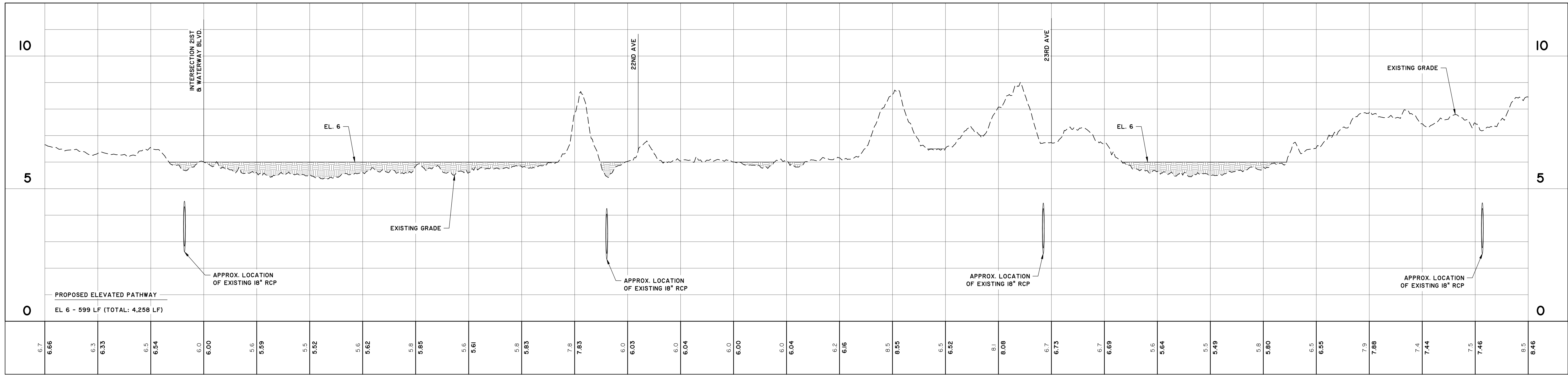
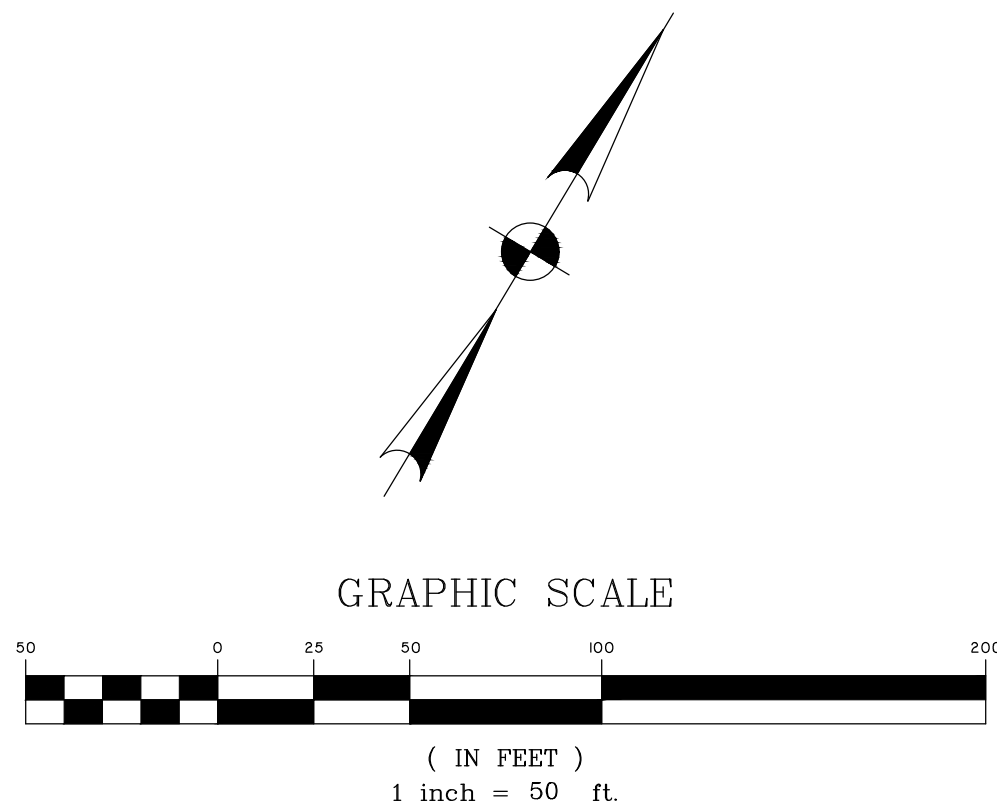
## **Certifications, training and meetings**

- Monthly UST testing of marina, public works and public safety building.
- UST annual tank testing public works.



KEY:

- LOCATION OF TABLE TOP CROSSING
- (TYPICAL TREATMENT 'A') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)
- (TYPICAL TREATMENT 'B') AREA WHERE PATHWAY IS TO BE WIDENED 3' TOWARDS ROAD
- (TYPICAL TREATMENT 'C') AREA WHERE PATHWAY IS TO BE WIDENED 3' TOWARDS PROPERTY AND RAISED TO ELEV. 6 FT (MIN)
- (TYPICAL TREATMENT 'D') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)
- PROPOSED DRAINAGE IMPROVEMENTS



WATERWAY BLVD. PATHWAY  
STATIONS: 0+00 - 14+00  
SCALE: HORZ.: 1" = 50'  
VERT.: 1" = 2'

PRELIMINARY  
NOT FOR  
CONSTRUCTION

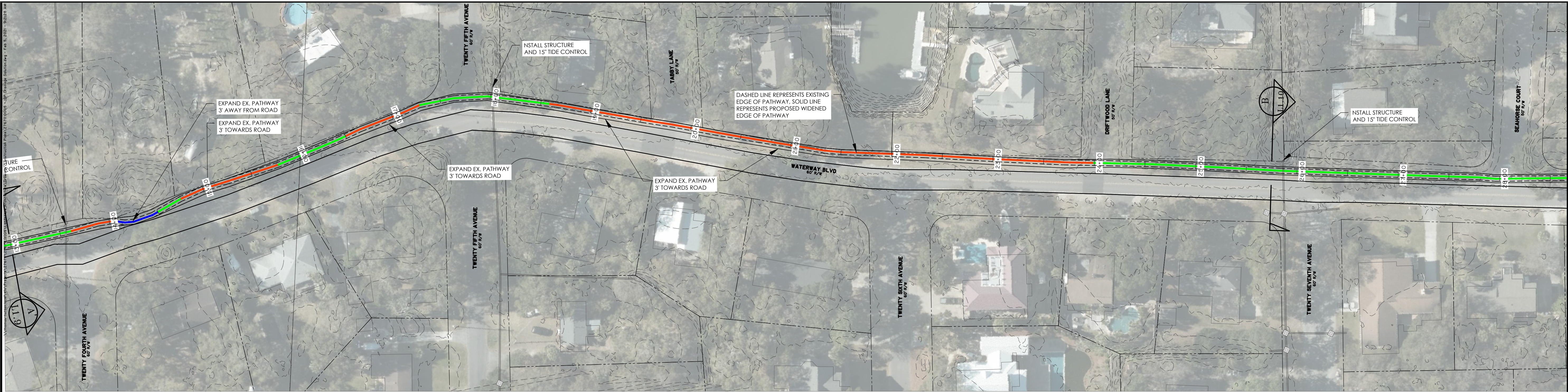
NO.	REVISIONS	BY	DATE

THOMAS  
&  
HUTTON

CITY OF ISLE OF PALMS  
ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA  
WATERWAY BLVD PATHWAY  
LANDSCAPE PLAN

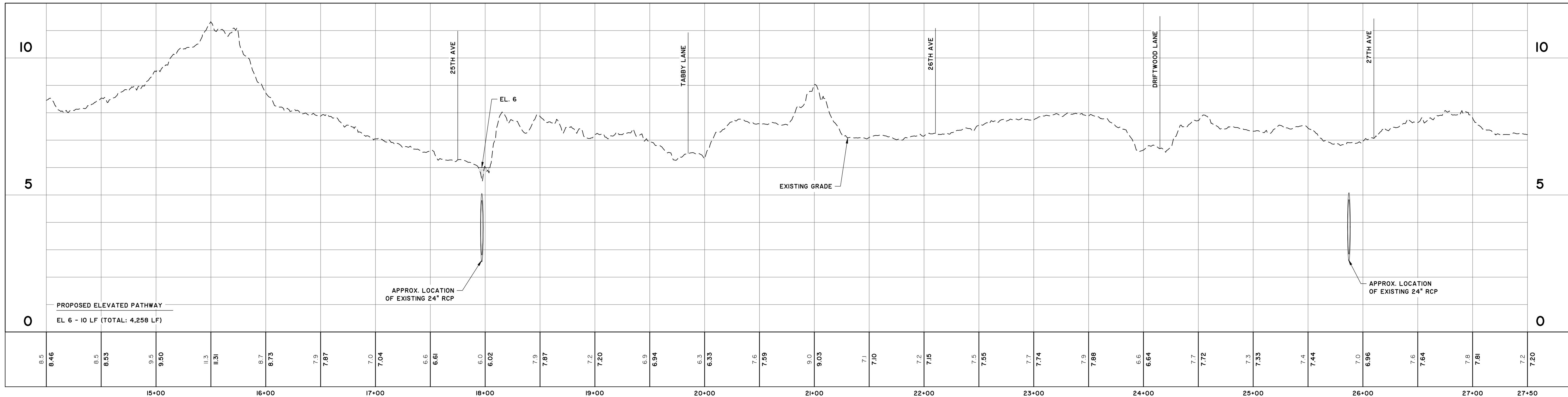
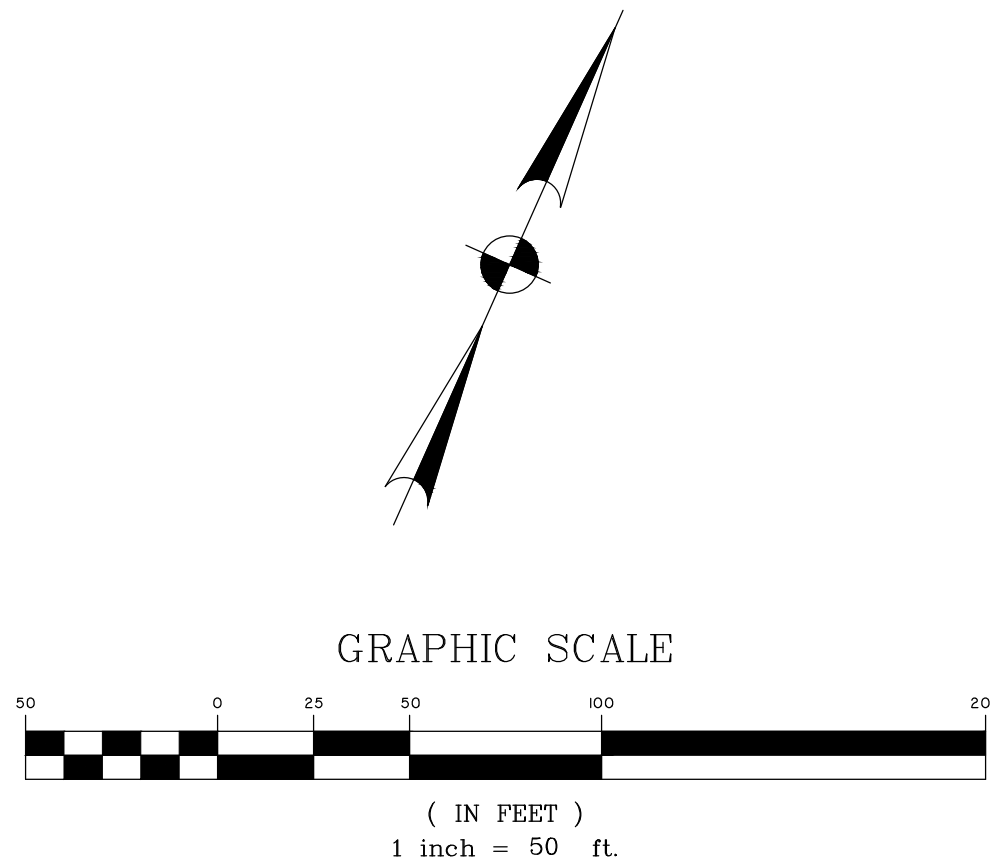
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DATE: 9/21/2020  
DRAWN: HEA  
DESIGNED: HEA  
REVIEWED: RPK  
APPROVED: RPK  
SCALE: AS NOTED

L1.1



KEY:

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WATERWAY BLVD. PATHWAY  
STATIONS: 14+00 - 27+50  
SCALE: HORZ.: 1" = 50'  
VERT.: 1" = 2'

PRELIMINARY  
NOT FOR  
CONSTRUCTION

NO.	REVISIONS	BY	DATE

THOMAS  
&  
HUTTON

CITY OF ISLE OF PALMS

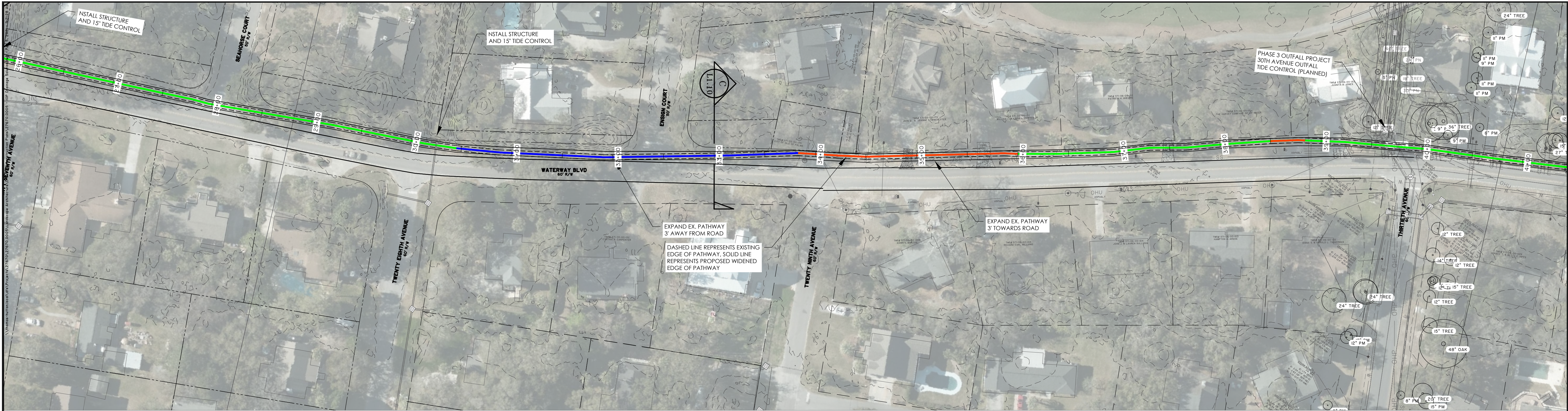
ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA

WATERWAY BLVD PATHWAY

LANDSCAPE PLAN

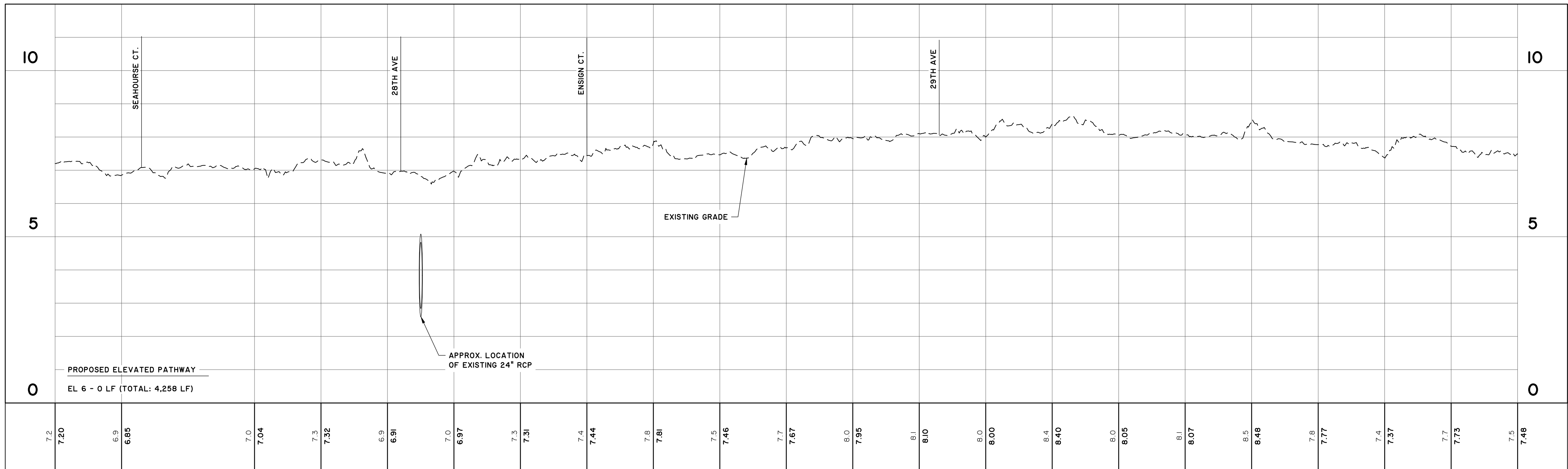
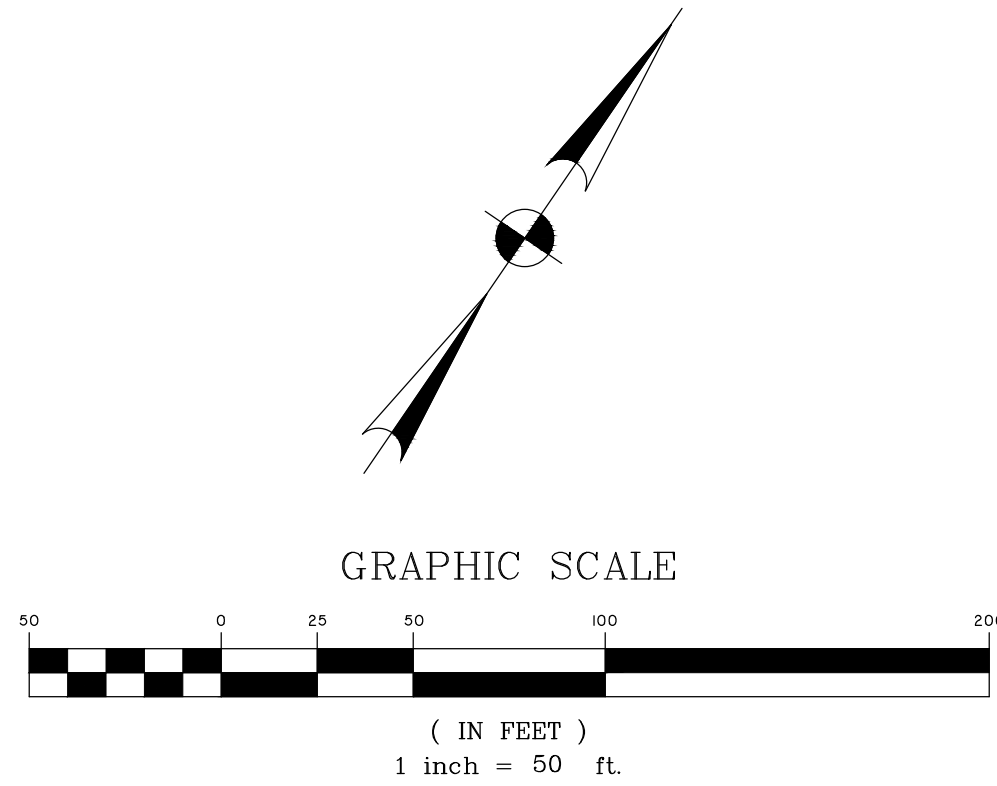
JOB NO: J- 27670.0005  
DATE: 9/21/2020  
DRAWN: HEA  
DESIGNED: HEA  
REVIEWED: RPK  
APPROVED: RPK  
SCALE: AS NOTED

L1.2



KEY:

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- PROPOSED DRAINAGE IMPROVEMENTS



WATERWAY BLVD. PATHWAY

STATIONS: 27+50 - 38+50  
SCALE: HORZ.: 1" = 50'  
VERT.: 1" = 2'

PRELIMINARY  
NOT FOR  
CONSTRUCTION

THOMAS  
&  
HUTTON

CITY OF ISLE OF PALMS

ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA

WATERWAY BLVD PATHWAY

LANDSCAPE PLAN

JOB NO: J-27670.0005  
DATE: 9/21/2020  
DRAWN: HEA  
DESIGNED: HEA  
REVIEWED: RPK  
APPROVED: RPK  
SCALE: AS NOTED

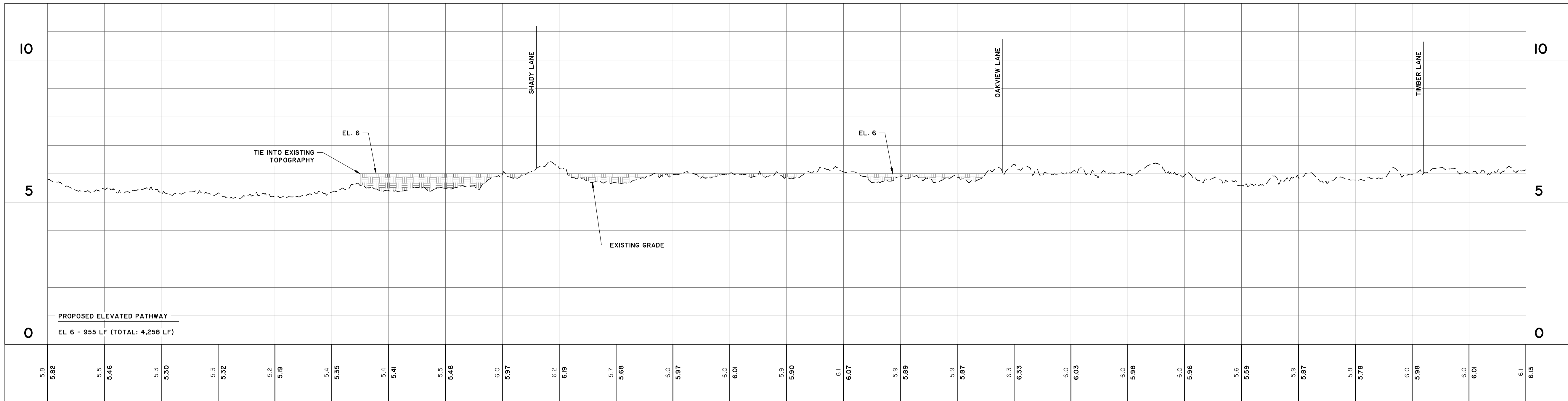
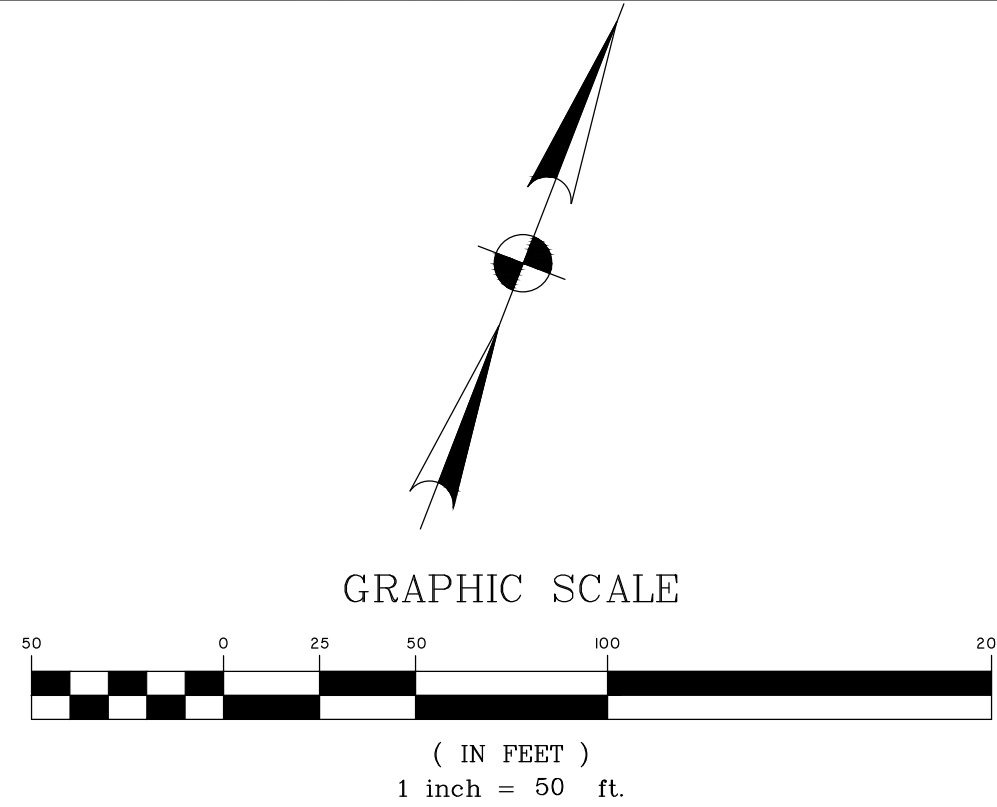
L1.3





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WATERWAY BLVD. PATHWAY

STATIONS: 51+00 - 64+00  
SCALE: HORIZ.: 1" = 50'  
VERT.: 1" = 2'

PRELIMINARY  
NOT FOR  
CONSTRUCTION

THOMAS  
&  
HUTTON

CITY OF ISLE OF PALMS

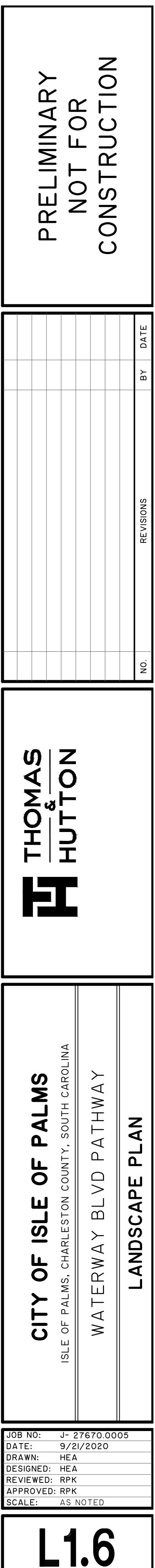
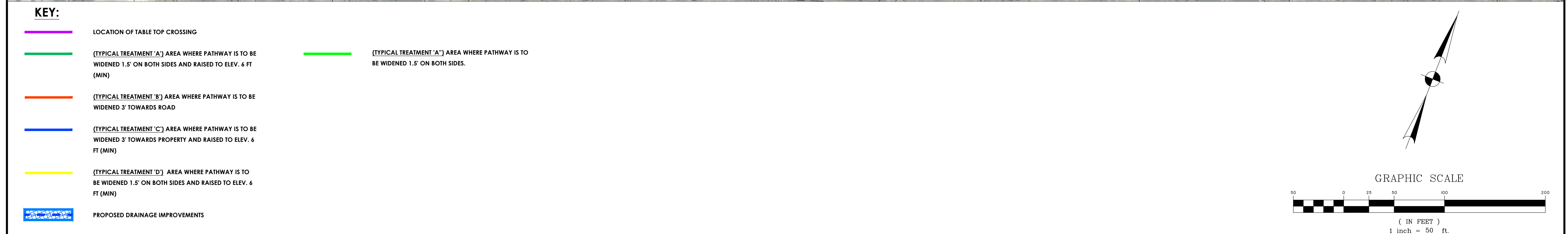
ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA

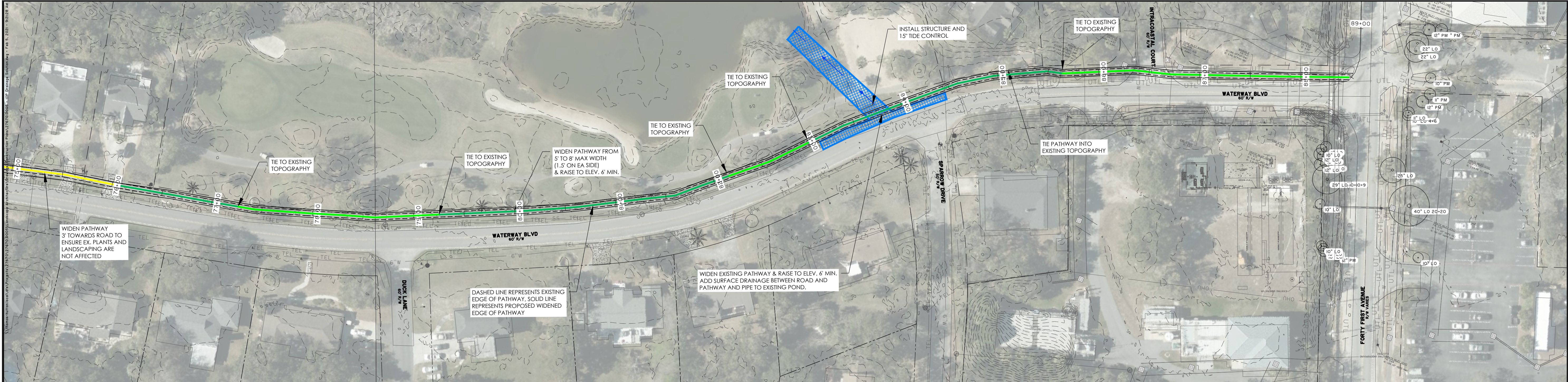
WATERWAY BLVD PATHWAY

LANDSCAPE PLAN

JOB NO: J- 27670.0005  
DATE: 9/21/2020  
DRAWN: HEA  
DESIGNED: HEA  
REVIEWED: RPK  
APPROVED: RPK  
SCALE:

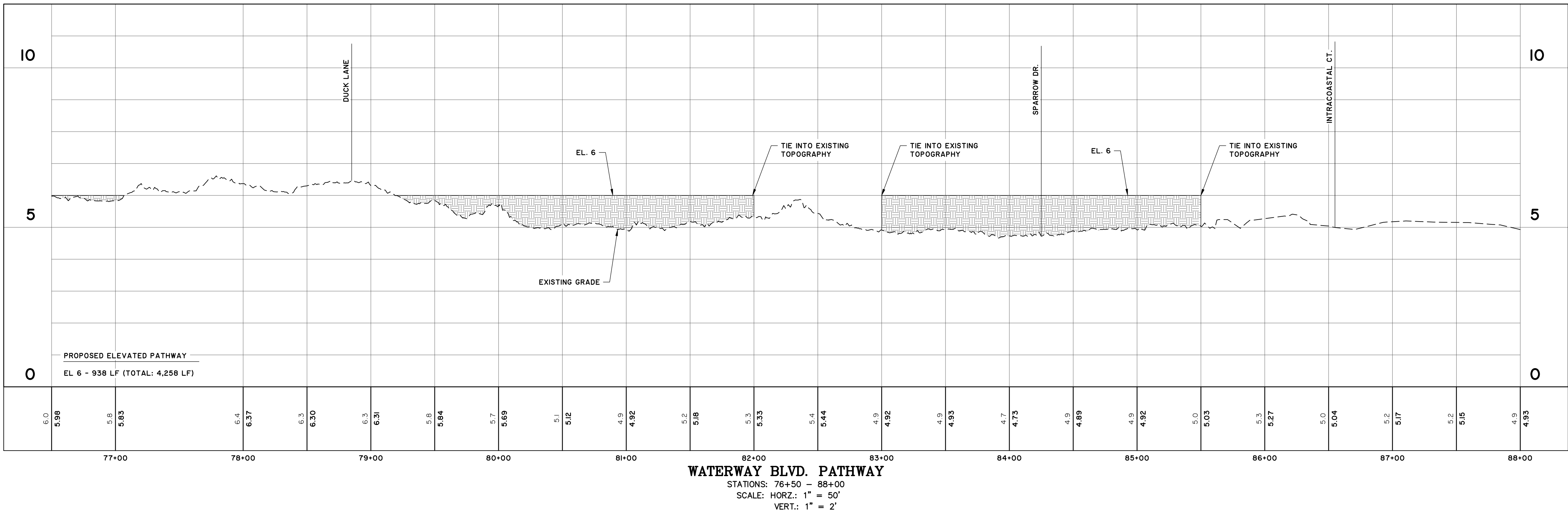
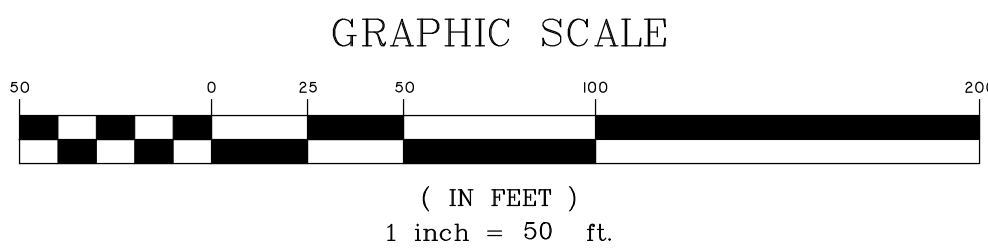
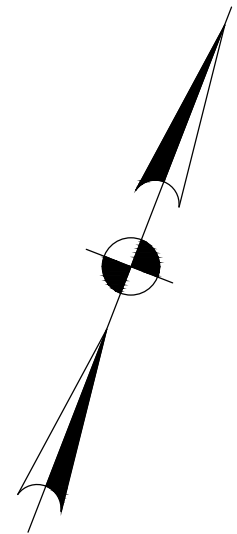
L1.5





KEY:

- LOCATION OF TABLE TOP CROSSING
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- (TYPICAL TREATMENT 'A') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES.



PRELIMINARY  
NOT FOR  
CONSTRUCTION

NO.	REVISIONS	BY	DATE

THOMAS  
&  
HUTTON

F

CITY OF ISLE OF PALMS

ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA

WATERWAY BLVD PATHWAY

LANDSCAPE PLAN

JOB NO: J- 27670.0005

DATE: 9/21/2020

DRAWN: HEA

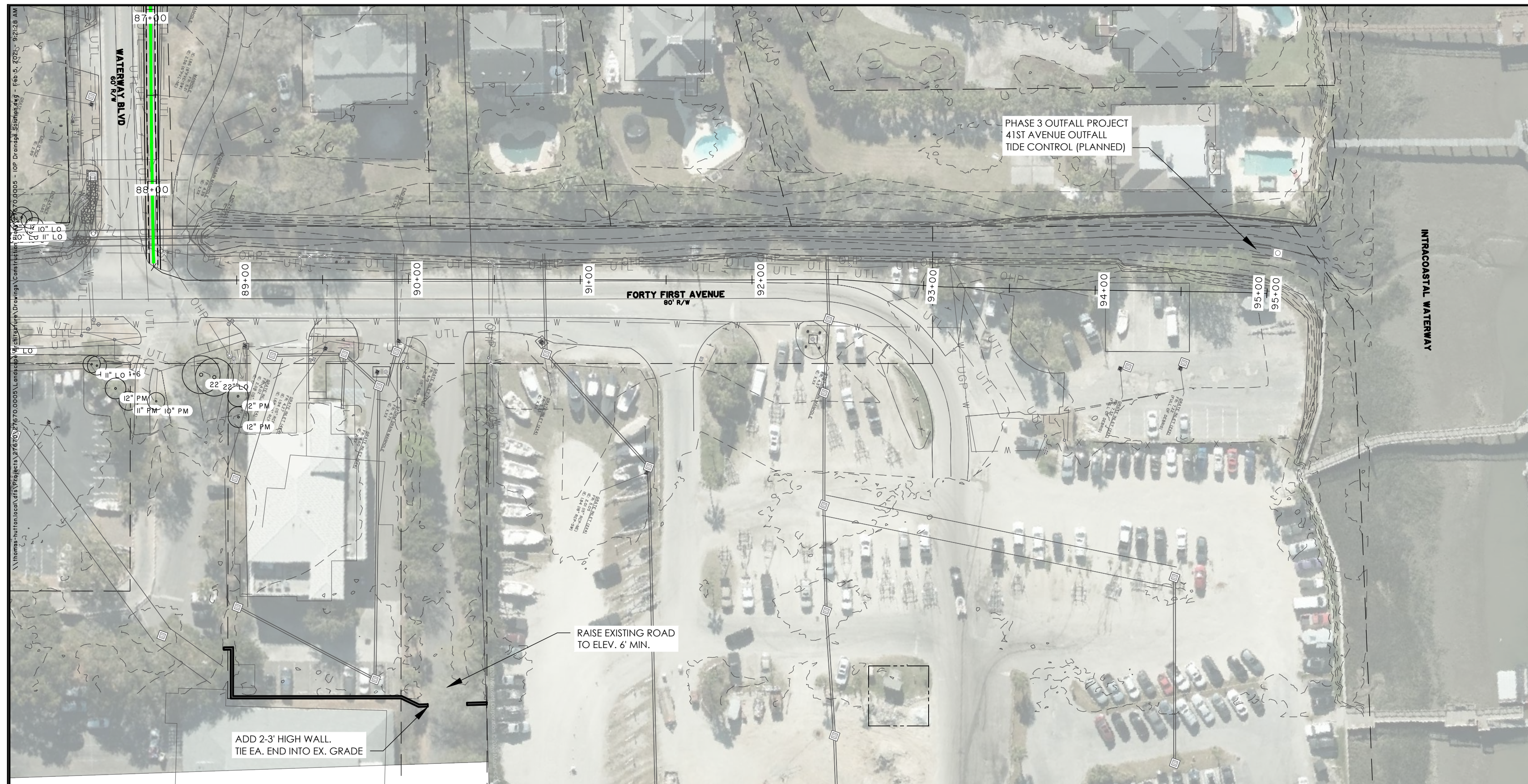
DESIGNED: HEA

REVIEWED: RPK

APPROVED: RPK

SCALE: AS NOTED

L1.7









INTRACOASTAL WATERWAY

TING ROAD  
MIN.

ADD 2-3' HIGH WALL.  
TIE EA. END INTO EX. C

**KEY:**

- | LOCATION OF TABLE TOP CROSSING  |  |
|---|--|
|    | (TYPICAL TREATMENT 'A') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)  |
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|  | (TYPICAL TREATMENT 'C') AREA WHERE PATHWAY IS TO BE WIDENED 3' TOWARDS PROPERTY AND RAISED TO ELEV. 6 FT (MIN) |
|  | (TYPICAL TREATMENT 'D') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)  |
|  | PROPOSED DRAINAGE IMPROVEMENTS   |

**(TYPICAL TREATMENT 'A') AREA WHERE PATHWAY IS TO BE  
WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT  
(MIN)**

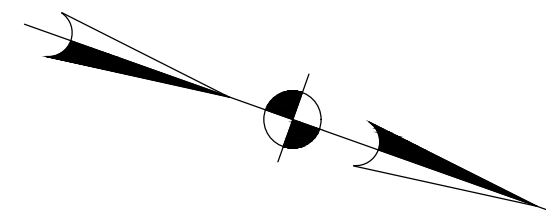
**(TYPICAL TREATMENT 'A'') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES.**

**(TYPICAL TREATMENT 'B') AREA WHERE PATHWAY IS TO BE  
WIDENED 3' TOWARDS ROAD**

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WIDENED 3' TOWARDS PROPERTY AND RAISED TO ELEV. 6  
FT (MIN)**

**(TYPICAL TREATMENT 'D') AREA WHERE PATHWAY IS TO  
BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6  
FT (MIN)**

### PROPOSED DRAINAGE IMPROVEMENTS



GRAPHIC SCALE



( IN FEET )  
1 inch = 50 ft.

PRELIMINARY  
NOT FOR  
CONSTRUCTION

[illegible]

**THOMAS  
&  
HUTTON**

# CITY OF ISLE OF PALMS

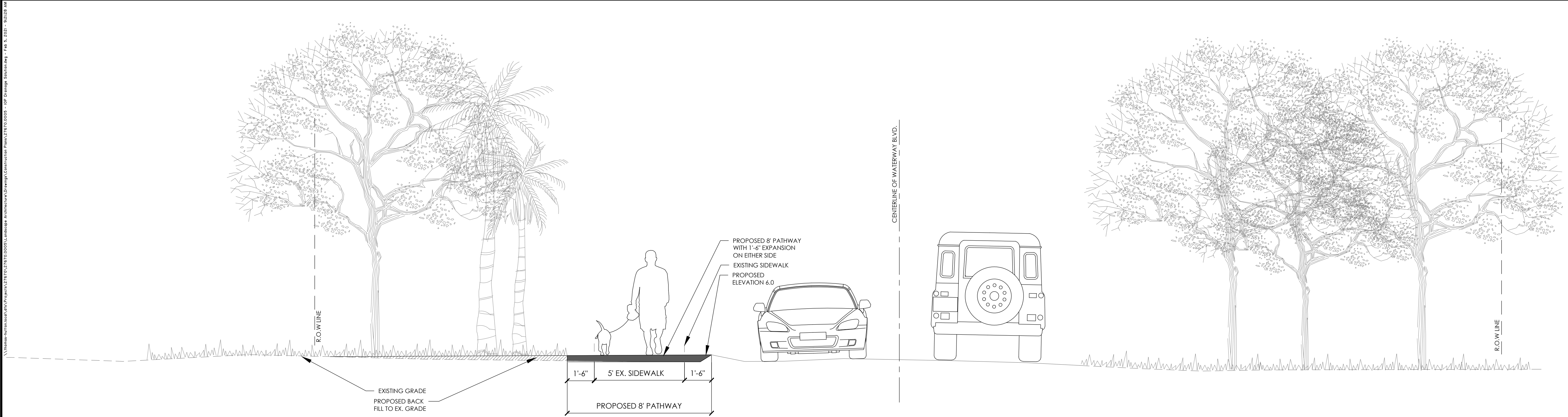
ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA

## WATERWAY BLVD PATHWAY

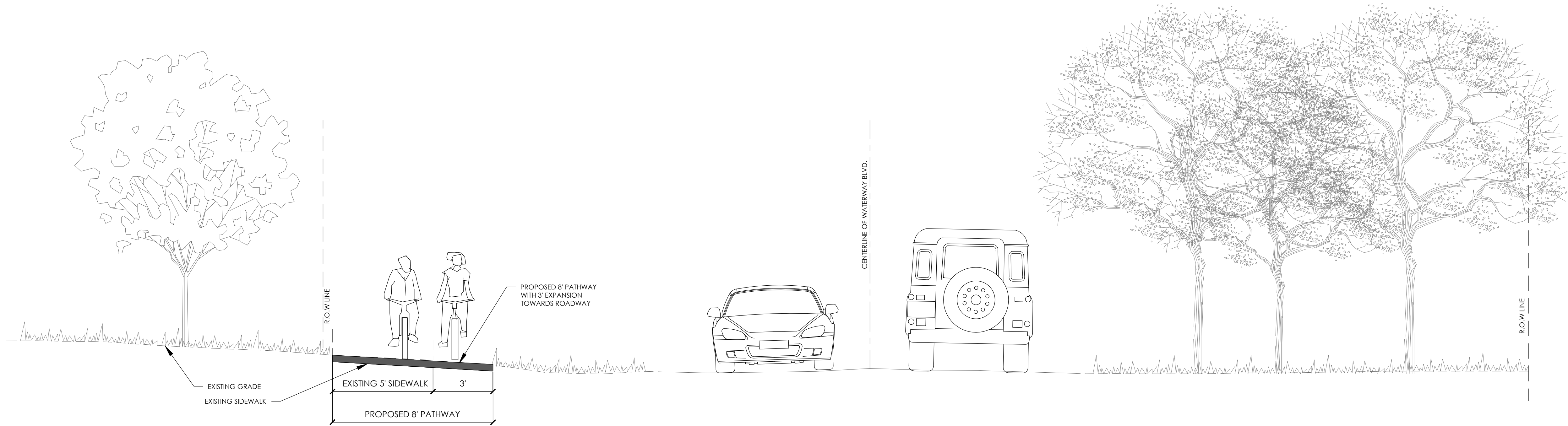
## LANDSCAPE PLAN

JOB NO:	J- 27670.0005
DATE:	9/21/2020
DRAWN:	HEA
DESIGNED:	HEA
REVIEWED:	RPK
APPROVED:	RPK
SCALE:	AS NOTED

## L1.8



**A**  
**L1.1** **TYPICAL TREATMENT 'A' - SECTION CUT AT STATION 3+00**  
SCALE: 1" = 3'



**A'**  
**L1.1** **TYPICAL TREATMENT 'A'' - SECTION CUT AT STATION 13+00**  
SCALE: 1" = 3'

PRELIMINARY NOT FOR CONSTRUCTION			
		BY	DATE
		REVISIONS	
		NO.	

THOMAS  
&  
HUTTON

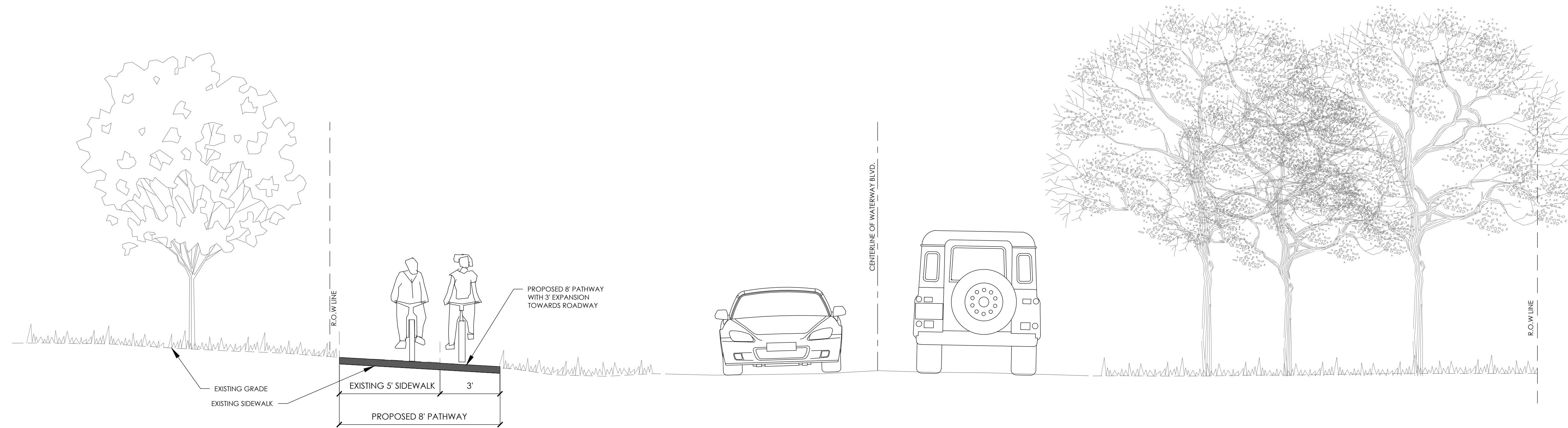
F

CITY OF ISLE OF PALMS  
ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA

WATERWAY BLVD PATHWAY

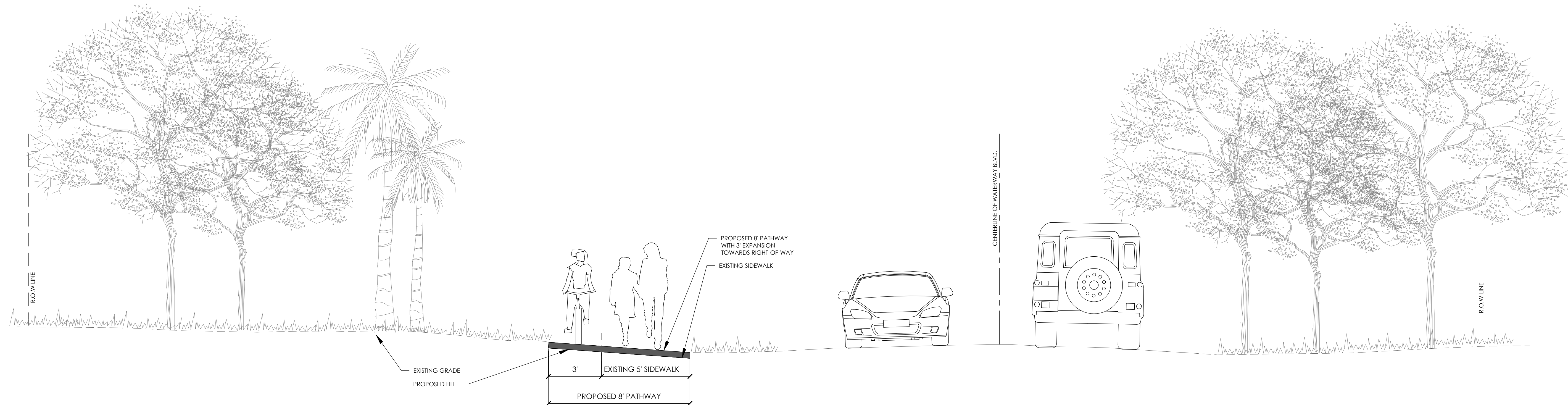
SECTION ELEVATIONS


JOB NO:	J- 27670.0005
DATE:	9/21/2020
DRAWN:	HEA
DESIGNED:	HEA
REVIEWED:	RPK
APPROVED:	RPK
SCALE:	AS NOTED




**TYPICAL TREATMENT 'B' - SECTION CUT AT STATION 25+75**

SCALE: 1" = 3'



 **TYPICAL TREATMENT 'C' - SECTION CUT AT STATION 33+00**  
SCALE: 1" = 3'

PRELIMINARY  
NOT FOR  
CONSTRUCTION

[illegible]

**CITY OF ISLE OF PALMS**

ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA

---

**WATERWAY BLVD PATHWAY**

---

**SECTION ELEVATIONS**

JOB NO:	J- 27670.0005
DATE:	9/21/2020
DRAWN:	HEA
DESIGNED:	HEA
REVIEWED:	RPK
APPROVED:	RPK
SCALE:	AS NOTED

## L1.10



PROJECT : **Waterway Blvd Pathway**

LOCATION : Isle of Palms, SC

ESTIMATOR : BJP



OPINION OF PROBABLE CONSTRUCTION COST	
DATE PREPARED : 02/23/2021	REVISED:
<b>BASIS FOR ESTIMATE</b>	
X	(No design completed-Master Plan)
	(Preliminary design)
	(Final design)
	(Other)

#### OPINION OF PROBABLE CONSTRUCTION COST

Since the Engineer has no control over the cost of labor, materials, equipment, over the Contractor's methods of determining prices, or over competitive bidding or market conditions, the Opinions of Probable Construction Costs provided for herein are made on the basis of his experience and qualifications. These opinions represent his best judgment as a design professional familiar with the construction industry. However, the Engineer cannot and does not guarantee that proposals, bids, or the construction cost will not vary from Opinions of Probable Construction Costs prepared by him.

ITEM	DESCRIPTION	QUANTITY		COST	
		UNITS	UNIT MEASURE	PER UNIT	TOTAL COST
7141113	18" RC pipe (Class III)	920	LF	\$ 75.00	\$ 69,000.00
	Grate Inlet (48" X48")	9	EA	\$ 4,500.00	\$ 40,500.00
	15" Tide Control Check Valve	5	EA	\$ 3,500.00	\$ 17,500.00
	18" Tide Control Check Valve	4	EA	\$ 3,500.00	\$ 14,000.00
7192020	Drop Inlet (24" x 36")	6	EA	\$ 4,500.00	\$ 27,000.00
	Typical Treatment A	2,250	LF	\$ 73.00	\$ 164,250.00
	Typical Treatment A (driveways)	200	LF	\$ 200.00	\$ 40,000.00
	Typical Treatment A'	3,720	LF	\$ 19.00	\$ 70,680.00
	Typical Treatment B	1,825	LF	\$ 19.00	\$ 34,675.00
	Typical Treatment C	385	LF	\$ 19.00	\$ 7,315.00
	Typical Treatment D	345	LF	\$ 19.00	\$ 6,555.00
	Table Top Crossing	35	LF	\$ 37.00	\$ 1,295.00
				<b>SUBTOTAL</b>	<b>\$ 492,770.00</b>
	Contingency at	25.0	%		\$ 123,192.75
	<b>GRAND TOTAL OPINION OF CONSTRUCTION COST</b>				<b>\$615,963</b>

#### Notes:

1. No property costs (drainage easement, temporary const. easements, right-of way, etc.) are included.
2. Does not include mobilization, traffic control, construction staking, as-built construction plans, silt fence, etc.
3. No soft costs included such as Engineering, Surveying, Permitting, Legal, Land Acquisition, etc.

TREATMENT	DESCRIPTION	LF x WIDTH	UNIT MEASURE	IN COST UNITS	UNIT MEASURE	PER UNIT	TOTAL COST	COST PER LF	TOTAL COST PER LF
Typical Treatment A	Selected Clearing & Grubbing (12' x 1')	27000	SF	0.62	AC	\$15,000.00	\$ 9,297.52	\$ 5.00	\$ 73.00
	Removal & Disposal of Existing Pavement (Pathway) (5' x 1')	11250	SF	1249.88	SY	\$ 75.00	\$93,740.63	\$ 42.00	
	Marine Limestone Base Course (4" Uniform) (3' x 1')	6750	SF	749.99	SY	\$ 15.00	\$11,249.89	\$ 5.00	
	Surface Plane Asphalt Pavement 1.0" (8' x 1') + (3' x 1')	24750	SF	2749.97	SY	\$ 5.00	\$13,749.86	\$ 7.00	
	Controlled Fill - Borrow Material (12' x 1' x 0.5')	13500	CF	500.00	CY	\$ 30.00	\$14,999.99	\$ 7.00	
	Sodding (4' x 1')	9000	SF	999.90	SY	\$ 15.00	\$14,998.50	\$ 7.00	
Typical Treatment A (driveways)	Selected Clearing & Grubbing (12' x 1')	2400	SF	0.06	AC	\$15,000.00	\$ 826.45	\$ 5.00	\$ 200.00
	Removal & Disposal of Existing Pavement (Pathway) (5' x 1')	1000	SF	111.10	SY	\$ 75.00	\$ 8,332.50	\$ 42.00	
	Marine Limestone Base Course (4" Uniform) (3' x 1')	600	SF	66.67	SY	\$ 15.00	\$ 999.99	\$ 5.00	
	Surface Plane Asphalt Pavement 1.0" (8' x 1') + (3' x 1')	2200	SF	244.44	SY	\$ 5.00	\$ 1,222.21	\$ 7.00	
	Controlled Fill - Borrow Material (12' x 1' x 0.5')	1200	CF	44.44	CY	\$ 30.00	\$ 1,333.33	\$ 7.00	
	Replacement of Existing Driveways (12' x 1')	2400	SF	266.64	SY	\$ 100.00	\$26,664.00	\$134.00	
Typical Treatment A'	Selected Clearing & Grubbing (5' x 1')	18600	SF	0.43	AC	\$15,000.00	\$ 6,404.96	\$ 2.00	\$ 19.00
	Marine Limestone Base Course (4" Uniform) (3' x 1')	11160	SF	1239.99	SY	\$ 15.00	\$18,599.81	\$ 5.00	
	Surface Plane Asphalt Pavement 1.0" (8' x 1') + (3' x 1')	40920	SF	4546.62	SY	\$ 5.00	\$22,733.11	\$ 7.00	
	Sodding (3' x 1')	11160	SF	1239.88	SY	\$ 15.00	\$18,598.14	\$ 5.00	
Typical Treatment B	Selected Clearing & Grubbing (5' x 1')	9125	SF	0.21	AC	\$15,000.00	\$ 3,142.22	\$ 2.00	\$ 19.00
	Marine Limestone Base Course (4" Uniform) (3' x 1')	5475	SF	608.33	SY	\$ 15.00	\$ 9,124.91	\$ 5.00	
	Surface Plane Asphalt Pavement 1.0" (8' x 1') + (3' x 1')	20075	SF	2230.53	SY	\$ 5.00	\$11,152.67	\$ 7.00	
	Sodding (3' x 1')	5475	SF	608.27	SY	\$ 15.00	\$ 9,124.09	\$ 5.00	
Typical Treatment C	Selected Clearing & Grubbing (5' x 1')	1925	SF	0.04	AC	\$15,000.00	\$ 662.88	\$ 2.00	\$ 19.00
	Marine Limestone Base Course (4" Uniform) (3' x 1')	1155	SF	128.33	SY	\$ 15.00	\$ 1,924.98	\$ 5.00	
	Surface Plane Asphalt Pavement 1.0" (8' x 1') + (3' x 1')	4235	SF	470.55	SY	\$ 5.00	\$ 2,352.75	\$ 7.00	
	Sodding (3' x 1')	1155	SF	128.32	SY	\$ 15.00	\$ 1,924.81	\$ 5.00	
Typical Treatment D	Selected Clearing & Grubbing (5' x 1')	1725	SF	0.04	AC	\$15,000.00	\$ 594.01	\$ 2.00	\$ 19.00
	Marine Limestone Base Course (4" Uniform) (3' x 1')	1035	SF	115.00	SY	\$ 15.00	\$ 1,724.98	\$ 5.00	
	Surface Plane Asphalt Pavement 1.0" (8' x 1') + (3' x 1')	3795	SF	421.66	SY	\$ 5.00	\$ 2,108.31	\$ 7.00	
	Sodding (3' x 1')	1035	SF	114.99	SY	\$ 15.00	\$ 1,724.83	\$ 5.00	
Table Top Crossing	Hot Mix Asphalt Surface Course Type B (9.5' x 1' x 0.5')*	166.25	CF	9.14	TON	\$ 100.00	\$ 914.38	\$ 27.00	\$ 37.00
	Crosswalk Striping	-	-	35.00	LF	\$ 10.00	\$ 350.00	\$ 10.00	

\*(9.5' x 1' x 0.5') assuming 8' flat top with 3:1 side slopes and 6" layer thickness

 **THOMAS & HUTTON**  
682 JOHNNIE DODDS BOULEVARD, SUITE 100 | POST OFFICE BOX 1522  
MT. PLEASANT, SC 29464 | 843.849.0200  
WWW.THOMASANDHUTTON.COM

April 9, 2021

Mr. Douglas Kerr  
City of Isle of Palms  
P.O. Drawer 508  
Isle of Palms, SC 29451

Re: Phase 3 Drainage Outfall  
Design and Permitting  
City of Isle of Palms, South Carolina  
T&H J-27670.0004  
Change Order Request

Dear Mr. Kerr:

Thank you for requesting our professional engineering services for the Isle of Palms Phase 3 Drainage Outfalls Project. As you are aware, Thomas & Hutton has completed the design of the three outfalls and is currently in the permitting phase. Each outfall is being permitted separately for scheduling purposes, with the following prioritization: 1) Forest Trail Outfall, 2) 30<sup>th</sup> Avenue Outfall, and 3) 41<sup>st</sup> Avenue Outfall. This includes separate permits, for each outfall, including SCDHEC-OCRM (CZC), SCDHEC-BOW (NPDES), Charleston County MS4, and SCDOT. In addition, two of the three outfalls have two (2) Critical Area permits (USACE/OCRM) associated with them, for a total of five (5) Critical Area permits. This is due to the impact threshold and mitigation requirements. The current permitting approach will minimize the need for mitigation.

Now that designs are completed and permitting is underway, it is apparent that some mitigation will be required. Our sub-consultant, Terracon, is proposing to provide services for the Permittee-responsible Mitigation Coordination and Plan.

Funding assistance has been provided in the form of identifying funding sources, attending meetings, and developing an application package for an RIA Grant for the entire Phase 3 area. Based on feedback from the grant authority from the Phase 3 application, the grant application package was revised to be specific to the Forest Trail Outfall Project. We expect to continue to provide support and coordination on the current application, and with future applications. We expect to apply for an additional grant for the 41<sup>st</sup> Avenue Outfall Project once the grant cycle reopens.

Given the required approach to break out the outfalls into separate permits, the need for a mitigation plan and coordination, and the grant application services provided to date and expected to be provided in the future, we are requesting the current contract be amended to increase the budgets for the Permitting Task and Funding Assistance Task.

#### **SCOPE OF SERVICES**

The proposed Scope of Services includes:

#### **Forest Trail Outfall**

- Infrastructure Critical Area Permit Submittal & Coordination - Submitted, coordination is ongoing.
- Channel Critical Area Permit Submittal & Coordination - Submitted, coordination is ongoing.
- SCDOT Encroachment Permit – Submitted, addressed comments, and resubmitted.
- Charleston County MS4 – Submitted
- SCDHEC-OCRM (CZC) – Conditional Approval
- SCDHEC-BOW (NPDES) – Submitted

#### **30<sup>th</sup> Avenue Outfall**

- Infrastructure Critical Area Permit Submittal & Coordination - Submitted, coordination is ongoing.
- Channel Critical Area Permit Submittal & Coordination - Submitted, coordination is ongoing.
- SCDOT Encroachment Permit – Submitted, in process of addressing comments.
- Charleston County MS4 – Application completed.
- SCDHEC-OCRM (CZC) – Application completed.
- SCDHEC-BOW (NPDES) – Application completed.

#### **41<sup>st</sup> Avenue Outfall**

- Critical Area Permit Submittal & Coordination – Application is in process.
- SCDOT Encroachment Permit – Submitted, in process of addressing comments.
- Charleston County MS4 – Application completed.
- SCDHEC-OCRM (CZC) – Application completed.
- SCDHEC-BOW (NPDES) – Application completed.

#### **Permittee-responsible Mitigation Coordination and Plan**

##### **Funding Assistance**

- Coordination and support for Forest Trail Outfall RIA Grant
- Development of permit package, coordination, and support for 41<sup>st</sup> Avenue RIA Grant – Next Grant Cycle

#### **SCHEDULE**

We will provide the proposed services by mutual agreement with the City. We understand that these projects are time sensitive, and we will execute the services in a timely manner.

#### **CONTRACT TERMS**

This change order is to be performed under the terms and conditions of our original contract with the City (Phase 3 Drainage Outfall Design and Permitting Contract, January 16, 2019).

This proposed change order will be open for acceptance until April 30, 2021 unless changed by us in writing. The Consultant has developed this change order based on our anticipated 2021 rates. We have assumed (as most services are provided on a time and

expense basis) that labor rates will be adjusted each calendar year. We appreciate the opportunity to prepare this proposal and look forward to working with you on the project.

#### COMPENSATION

Phase	Fee Structure	Current Budget	Additional Fee	Revised Budget
Permitting Phase	Time & Expense	\$66,200.00	\$37,000.00	\$103,200.00
Funding Assistance	Time & Expense	\$12,900	\$6,300	\$19,200

Should you have any questions about this contract change request, please do not hesitate to contact me at (843) 725-5280, or via e-mail at [karkowski.r@tandh.com](mailto:karkowski.r@tandh.com).

Sincerely,

**THOMAS & HUTTON**



Richard Karkowski, PE, PH, CPSWQ, D.WRE  
Principal / Project Manager

RPK/ala

Enclosures: 1. 2021 Rate Sheet



## Consulting Services on a Time and Expense Basis

January 1, 2021

Thomas & Hutton provides services on a time and expense basis as follows:

1. This basis includes allowance for direct salary expenses and for direct non-salary expenses. It also provides for services we may subcontract to others.
2. Direct salary expenses are generally based upon our payroll costs. The payroll costs include the cost of salaries and wages (including sick leave, vacation, and holiday pay) for time directly chargeable to the project; plus, unemployment, excise, payroll taxes, and contributions for social security, employment compensation insurance, retirement benefits, and medical and insurance benefits.

The current hourly rate charges for each skill position for 2021 are as follows:

Hourly Rate	Engineer	Survey	Landscape	GIS	Quality Control	Business/ Administrative
\$ 250.00	Consultant	Consultant	Consultant	Consultant	Consultant	
\$ 225.00	Senior Manager	Senior Manager	Senior Manager	Senior Manager	Senior Manager	Senior Manager
\$ 205.00	Project Manager V Project Engineer V	Survey Manager V Project Surveyor V Survey Party (3-Men)	Landscape Architect V LA Project Manager V	GIS Manager V		
\$ 190.00	Project Manager IV Project Engineer IV	Survey Manager IV Project Surveyor IV	Landscape Architect IV LA Project Manager IV	GIS Manager IV		Senior Application Developer IV, Software/Computer Consultant IV
\$ 175.00	Project Manager III Project Engineer III	Survey Manager III Project Surveyor III	Landscape Architect III LA Project Manager III	GIS Manager III		Senior Application Developer III, Software/Computer Consultant III
\$ 165.00	Project Manager II Project Engineer II	Survey Manager II Project Surveyor II	Landscape Architect II LA Project Manager II	GIS Manager II	Construction Administrator II	Senior Application Developer II, Software/Computer Consultant II
\$ 150.00	Project Manager I Project Engineer I	Survey Manager I Project Surveyor I Survey Party (2-Men)	Landscape Architect I LA Project Manager I	GIS Manager I	Construction Administrator I	Grant Administrator, Senior Application Developer I, Software/Computer Consultant I
\$ 140.00	Designer IV Engineering Technician IV	Staff Surveyor V Survey Field Supervisor	Landscape Designer IV	GIS Analyst IV	Field Representative V	Application Developer IV
\$ 130.00	Designer III Engineering Technician III	Staff Surveyor IV	Landscape Designer III	GIS Analyst III	Field Representative IV	Application Developer III
\$ 120.00	Designer II Engineering Technician II	Staff Surveyor III	Landscape Designer II	GIS Analyst II		Application Developer II
\$ 110.00	Designer I Engineering Technician I	Survey Party (1-Man) Staff Surveyor II	Landscape Designer I	GIS Analyst I	Field Representative III	Application Developer I, Permit Coordinator II, Admin IV
\$ 100.00	CADD Technician III	Survey Technician III Staff Surveyor I	Landscape Technician III	GIS Technician III	Field Representative II	Permit Coordinator I
\$ 90.00	CADD Technician II	Survey Technician II	Landscape Technician II	GIS Technician II		
\$ 85.00	CADD Technician I	Survey Technician I	Landscape Technician I	GIS Technician I	Field Representative I	Admin III
\$ 80.00						Admin II
\$ 75.00						Admin I
\$ 400.00	Expert Witness					

3. When warranted, overtime will be charged for any non-salary employees. Overtime hours will be billed at 1-1/2 times the individuals charge rate.
4. Direct non-salary (reimbursable) expenses, including printing, reproduction, air travel, lodging, and meals are billed at cost. Travel in company or private vehicles will be billed at the IRS Standard Mileage Rate of \$0.56 per mile and may be revised based on fuel pricing. Outside consultant fees will be billed at 1.15 times the cost.
5. All rates and charges are effective through January 1, 2022, including printing, reproductions, materials, and travel and are subject to change at that time. New rates and costs will become immediately effective to contracts in effect at the time of rate changes.

DATE

2/23/2021

QUOTE INFORMATION

BUNC2020000138C631

MD6 42R

Qty: 1

PREPARED BY

HUGHES MOTORS, INC.

6841 BULLDOG DR

CHARLESTON

SC 294064733

PREPARED FOR

ISLE OF PALMS CITY (INC)

1303 PALM BLVD

ISLE OF PALMS

SC 294512232

16FT FLATBED DUMP

# PROPOSAL





**MACK**



Mr. Donnie Pitts

Thank you for giving us this opportunity to provide a quote.

This proposal contains the complete specification and performance details of the Mack model configured for your application. Every proposed spec from Mack is prepared with lowest total cost of ownership and highest return on investment as the key objectives for our customers.

This reflects Mack's focus on application excellence to deliver uptime and fuel economy, reduced maintenance, driver satisfaction, productivity and high resale value. The enclosed spec and recommendations have been carefully designed to meet all these objectives.

Beyond the technical specifications contained in this proposal, it's important to remember that each Mack truck is backed by Mack Connect, the industry's leading uptime and productivity solution, plus a coast-to-coast network of dealer service locations. I think that after reviewing this proposal you will realize why Mack is "The American Truck You Can Count On."

I look forward to meeting with you and to discuss any questions you might have regarding this proposal.

Yours sincerely

*William Peek*

**BILL PEEK**

HUGHES MOTORS, INC.

DATE

2/23/2021

QUOTE INFORMATION

BUNC2020000138C631

MD6 42R

Qty: 1

PREPARED BY

HUGHES MOTORS, INC.

6841 BULLDOG DR

CHARLESTON

SC 294064733

PREPARED FOR

ISLE OF PALMS CITY (INC)

1303 PALM BLVD

ISLE OF PALMS

SC 294512232

The Mack logo is displayed in a bold, sans-serif font.

## PRICING SUMMARY

### MD6 42R

#### VEHICLE PRICE

\$ 81,884.00

#### EXTERNAL LOCALS

16ft Flatbed dump with barn door gate and electric tarp system

\$ 14,876.00

#### TOTAL VEHICLE PRICE

\$ 96,760.00

#### TAX SUMMARY

SC IMF

\$500.00

#### TOTAL TAX

\$500.00

#### TOTAL SELLING PRICE (PER UNIT)

97,260.00

ISLE OF PALMS CITY (INC)

DATE

*William Peek*  
HUGHES MOTORS, INC.

2/23/2021

DATE

The price above includes a 16' flatbed dump per attached body specifications from Double A Body Builders in Pamplico S.C. Please review body specs for accuracy.

This is a NON CDL chassis

The Mack logo is displayed in a bold, white, sans-serif font against a dark background.

## TECHNICAL SPECIFICATION

### MD6 42R

APPLICATION PACKAGES		DESCRIPTION
S	CHASSIS HEIGHT	DOCK HEIGHT

CUSTOMER/VEHICLE INFO		DESCRIPTION
S	CHASSIS (BASE MODEL)	MD642 - 42R MEDIUM DUTY, CLASS 6 w/ 6.7L, (MAX 25,995lbs GVWR)
S	ASSEMBLY PLANT	FACTORY USA (RV, MACK)
	VEHICLE USE & BODY/TRAILER TYPE	DUMP TRUCK
	VEHICLE VOCATION	PICKUP & DELIVERY / SHORT HAUL SERVICE
S	CUSTOMER FLEET SIZE	DEALER FLEET WITH LESS THAN 25 VEHICLES IN OWN FLEET OF ANY VEHICLE BRAND
	TYPE OF SERVICE	MUNICIPAL
S	WARRANTY REGISTRATION LOCATION	US - WARRANTY REGISTRATION LOCATION
S	INITIAL REGISTRATION LOCATION	ALL 50 STATES, CARB ENGINE EMISSION (US17 / US21 / ZERO EMISSION)
S	LANGUAGE-PUBS/DECAL/SIGNS	ENGLISH
S	TERRAIN GRADE	CITY, STARTING GRADES<6%
S	LOADING SURFACE	ASPHALT LOADING AND / OR UNLOADING SURFACE
	VEHICLE MODEL YEAR	2022 MODEL YEAR

ENGINE & TRANSMISSION		DESCRIPTION
	ENGINE PACKAGE, COMBUSTION	ISB6.7-280 D CUMMINS 280HP @ 2600RPM (GOV) 660 LB-FT, US21
	TRANSMISSION	2500 RDS 6 SP-ALLISON RUGGED DUTY SERIES GEN 5 W/PROGNOSTICS (WITH PTO PROVISIONS)
S	FUELSENSE CALIBRATION	ALLISON FUELSENSE BASIC, NEUTRAL AT STOP

ENGINE & TRANSMISSION EQUIPMENT		DESCRIPTION
	ENGINE BRAKE TYPE	ENGINE BRAKE
	CRUISE CONTROL	CRUISE CONTROL
S	ALTERNATOR	DELCO 12V 145A (24SI) BRUSH-TYPE
	BATTERY DISCONNECT SWITCH	BATTERY DISCONNECT SWITCH
S	STARTER MOTOR	12 VOLT MELCO STARTER (MITSUBISHI ELECTRIC)

PRICELIST DATE	QUOTATION	DATE	PAGE	CUSTOMER NAME	DEALER NAME
20210104	BUNC2020000138C631		3 of 7	ISLE OF PALMS CITY (INC)	HUGHES MOTORS, INC.

# TECHNICAL SPECIFICATION (cont.)



ENGINE & TRANSMISSION EQUIPMENT		DESCRIPTION
S	ENGINE BLOCK HEATER	WITHOUT ENGINE BLOCK HEATER
	POWER TAKE OFF CONTROL	POWER TAKE OFF TRANSMISSION CONTROL, PREP KIT F/SINGLE PTO

AXLE & SUSPENSION		DESCRIPTION
S	FRONT AXLE	10,000LB MERITOR MFS+ 4500 KG
S	SPRINGS - FRONT	MACK TAPERLEAF 10000# (4500 KG) GROUND LOAD RATING
S	FRONT AXLE BRAKES	MERITOR "S" CAM TYPE 16.5" x 5" Q+
	REAR AXLE - SINGLE	21000# (9525 kg) MERITOR MS-21-13X, (W/O DIFF LOCK) CASING 11.0mm
	REAR SUSPENSION - SINGLE	21000# (9525kg) MULTILEAF
	SUSPENSION LEVELLING DEVICE	WITHOUT SUSPENSION LEVELLING DEVICE
S	BRAKES - REAR	MERITOR "S" CAM 16.5"x7" Q+
S	REAR AXLE RATIO	RATIO 5.57, REAR AXLE

CHASSIS EQUIPMENT		DESCRIPTION
S	IDLE EMISSION CERTIFICATION	IDLE EMISSION CERTIFICATION, CARB 08
	DPF DIESEL PARTICULATE FILTER	CUMMINS SINGLE MODULE E.A.T.S. RH SIDE UNDER CAB US17 (7L over 271HP \ 9L over 351HP only!!)
S	EXHAUST	UNDERFRAME RIGHT SIDE INBOARD MOUNTED
	BODY BUILDER MODULE	EL PREP KIT, TMC RP1404 EL. INTERFACE NO BODYBUILDER MODULE
S	ELECTRICAL RECEPT, AUX POWER	WITHOUT ELECTRICAL PREPARATION FOR LIFTGATE

FRAME EQUIPMENT & FUEL TANKS		DESCRIPTION
	WHEELBASE	186" Wheelbase (123" CA) 60" After-frame
S	FRAME RAILS	STEEL - 260MM X 70MM X 7MM -- (10.24" X 2.75" X 0.275" ); RBM 1,370,000 LB-IN
S	PRIMARY FUEL FILTER	FUEL FILTER & WATER SEPARATOR
S	FUEL TANK - LH	50 GALLON (190 L) 22" ALUMINUM ROUND

CAB INTERIOR		DESCRIPTION
S	GAUGES - UNIT OF MEASURE	U.S. UNITS (PREDOMINANT)
	BACK-UP ALARM	BACK-UP ALARM
S	AIR RESTRICTION INDICATOR	MECHANICAL, GRADUATED, ON FILTER
S	DAYTIME RUNNING LIGHTS	DRL WHEN ENGINE RUNNING & PARK BRAKE OFF
S	FIRE EXTINGUISHER	HAND FIRE EXTINGUISHER 1.1 KG (2.5LB) ENGLISH DECAL, ABC
	AUDIO SYSTEM	RADIO, AM/FM, MP3, WEATHER BAND
S	AUDIO INTEGRAT. PHONE HANDSFRE	AUDIO INTEGRATED HANDSFREE PHONE, BLUETOOTH
S	AUDIO COMMUNICATION CONNECTOR	AUDIO COMMUNICATION CONNECTOR, USB AUDIO
S	COMMUNICATION EQUIPMENT	FACTORY INSTALLED GEOTAB FLEET MANAGEMENT SYSTEM
S	DRIVER SEAT SUPPORT	MACK DRIVERS SEAT, AIR SUSPENDED
S	DRIVERS SEAT UPHOLSTERY	DRIVERS SEAT UPHOLSTERY, VINYL
S	PASSENGER SEAT SUPPORT	FIXED PASSENGER SEAT
S	PASSENGERS SEAT UPHOLSTRY	PASSENGERS SEAT UPHOLSTERY, VINYL

CAB EXTERIOR		DESCRIPTION
	MIRRORS - EXTERIOR	HEATED AND MOTORIZED MIRRORS BOTH SIDES, BLACK (Anthem mirror)

# TECHNICAL SPECIFICATION (cont.)



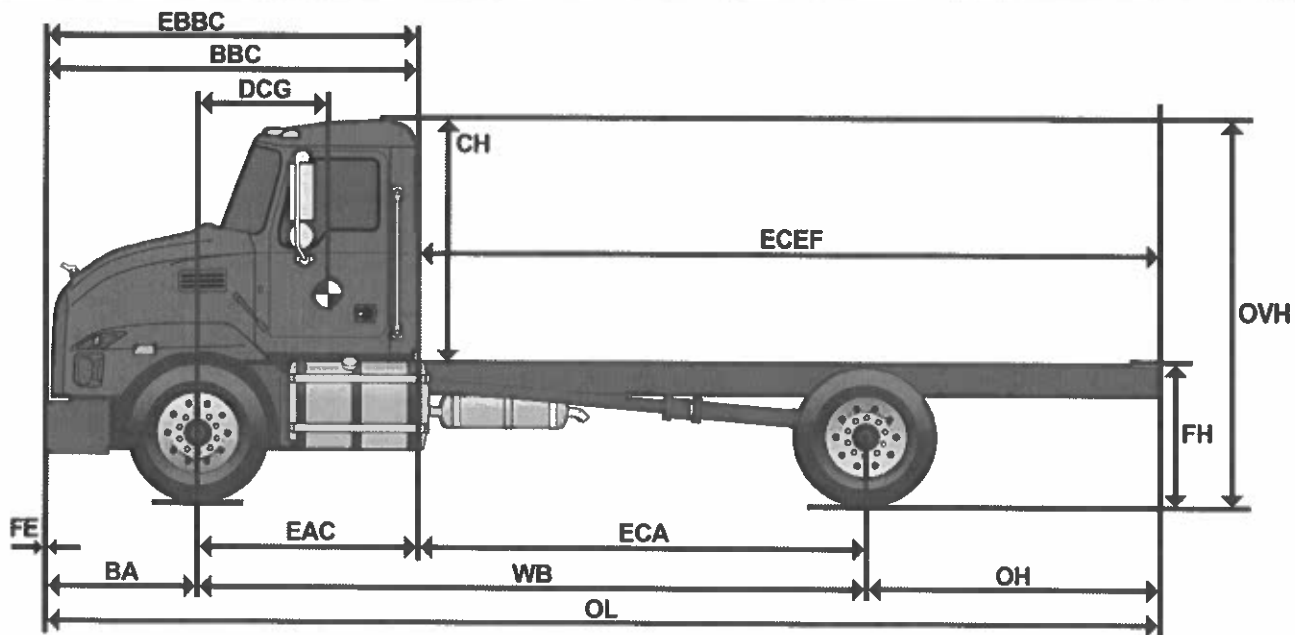
WHEELS & TIRES		DESCRIPTION
S	TIRES BRAND/TYPE - FRONT	11R22.5 G BRIDGESTONE R268 ECOPIA (12350 lbs) (Total for QTY = 2)
	GHG STEER TIRE CATEGORY (PAWS)	GHG STEER TIRE CATEGORY, LOW ROLLING RESISTANCE
S	WHEELS - FRONT	22.5x8.25 ACCURIDE, POWDER COATED WHITE STEEL DISC (Total for QTY = 2)
	FRONT AXLE TIRE & WHEEL QUANTITY	TWO FRONT TIRES & WHEELS
	TIRES BRAND/TYPE - REAR	11R22.5 G BRIDGESTONE M760 ECOPIA (23360 lbs) (DRIVE ONLY) (Total for QTY = 4)
	GHG DRIVE TIRE CATEGORY (PAWS)	GHG DRIVE TIRE CATEGORY, BASIC ROLLING RESISTANCE
S	WHEELS - REAR	22.5x8.25 ACCURIDE, POWDER COATED WHITE STEEL DISC (Total for QTY = 4)
	REAR AXLE TIRE & WHEEL QUANTITY	FOUR REAR AXLE TIRES & WHEELS

PAINT		DESCRIPTION
S	PAINT COLOR - FIRST COLOR	GLACIER WHITE; P3029

BASE WARRANTY & PURCHASED COVERAGES		DESCRIPTION
S	ENGINE TOWING WARRANTY	CUMMINS ENGINES (Contact Cummins for Standard Warranty and Extended Coverage Details)
S	MACK ONECALL BUNDLE	12 MONTH - ASIST AND MACK ONECALL
S	VEHICLE WARRANTY TYPE	NORMAL DUTY WARRANTY CLASSIFICATION
S	BASIC CHASSIS COVERAGE	CHASSIS PLAN 24 MO/UNLIMITED MI NORMAL DUTY PROTECTION PLAN
S	ENGINE WARRANTY	CUMMINS ENGINES B6.7 (Contact Cummins for Standard Warranty and Extended Coverage Details)
S	EMISSION COMPONENT COVERAGE	CUMMINS ENGINES (Contact Cummins for Standard Warranty and Extended Coverage Details)
S	TRANSMISSION WARRANTY	ALLISON TRANSMISSIONS (Contact Allison Transmission for standard warranty and extended coverage data)
S	AIR CONDITIONING WARRANTY	AIR CONDITIONING STANDARD COVERAGE (Sealed System Only) 24 MONTHS UNLIMITED MILEAGE
S	CHASSIS TOWING WARRANTY	STANDARD CHASSIS TOWING 90 DAYS OR 5,000 MILES
S	PARTNERED SERVICES	GEOTAB FOR MACK TRUCKS - 12 MONTH

**VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY**

Description	Sales Code	Dwg Ref	Length	UOM
Front Frame Extension	N/A	FE	0.0	INCHES
Bumper to Front Axle	N/A	BA	40.0	INCHES
Wheelbase	N/A	WB	186.0	INCHES
Rear Overhang	N/A	OH	59.6	INCHES
Overall Length	N/A	OL	285.7	INCHES
Bumper to Back of Cab	N/A	BBC	103.0	INCHES
Eff. Bumper to Back of Cab	N/A	EBBC	103.0	INCHES
Eff. Cab to Rear Axle	N/A	ECA	123.0	INCHES
Eff. Front Axle to Back of Cab	N/A	EAC	63.0	INCHES
Eff. Cab to End of Frame	N/A	ECEF	182.7	INCHES
Unladen 5th Wheel Height	001AA3	5W	0.0	INCHES
Unladen Frame Height	N/A	FH	40.9	INCHES
Cab Height	N/A	CH	69.1	INCHES
Overall Height	N/A	OVH	110.0	INCHES
Driver CG	N/A	DCG	59.1	INCHES
Second Front Axle Spacing	001AA3	SFAS	0.0	INCHES



**DOUBLE A BODY BUILDERS • www.doubleabody.com**

PO Box 363 • 1407 N. Pamplico Highway • Pamplico, SC 29583 • Phone (843) 493-5021 • Fax: (843) 493-1995

QUOTE TO: **Hughes Motors Inc.**DATE QUOTED **01/25/21****Bill Peek 843-200-3882**

TRUCK ARRIVAL DATE: \_\_\_\_\_

**billp@bunchtruckgroup.com**

ESTIMATED COMPLETION DATE: \_\_\_\_\_

COLOR OF BODY: **Black**QUOTED BY: **Katelyn Baldwin 843-687-7643****IF PAINT IS ORDERED TO MATCH TRUCK, EXACT MATCH IS NOT GUARANTEED.**MAKE **Mack** VIN# \_\_\_\_\_ MODEL # **MD6 Med Duty**YEAR \_\_\_\_\_ C/A \_\_\_\_\_ TRANSMISSION **Allison Auto** KEY#: \_\_\_\_\_

BODY TYPE	SIZE	TYPE	PRICE
Flatbed			
Flatbed Dump <input checked="" type="checkbox"/>	16'	twin tele	8,450.00
Contractor Dump			
Utility Body			
Lift Gate			
<input checked="" type="checkbox"/> Headboard		Standard	450.00
<input checked="" type="checkbox"/> Sides	48"	Perm	1,525.00
<input checked="" type="checkbox"/> Tailgate	48"	Barn	575.00
<input checked="" type="checkbox"/> 1/2 Cab Shield			300.00
Gooseneck			
Slide Track			
Binders	Quantity=		
Hammer Tarp			
<input checked="" type="checkbox"/> Bullet Tarp	Electric Alum tarp		1,600.00
5000 XLC			
5000 XGL			
2000 X			
2000 SR			
Air PTO			
Standard PTO			
<input checked="" type="checkbox"/> Auto PTO	hot shift		1,500.00
Electric Dump			
Console Control			
Air Pump			
Electric Brake			

ACCESSORIES	PRICE
<input type="checkbox"/> 25 Ton Pintle Hook	
<input type="checkbox"/> 15 Ton Pintle Hook	
<input type="checkbox"/> Reece Hitch	
<input type="checkbox"/> Multi-Hitch Pintle Ball Combo	
<input type="checkbox"/> RV Plug	
<input type="checkbox"/> 6 Pin Round	
<input type="checkbox"/> Other Plug	
<input type="checkbox"/> Glad Hands	
<input type="checkbox"/> Dual Wiring	
<input checked="" type="checkbox"/> Deliver to Hughes Motor	

**TOOLBOX**

<input type="checkbox"/> " Steel \$ _____	<input type="checkbox"/> 24" Alum. \$ _____
<input checked="" type="checkbox"/> 36" Steel \$ <b>476.00</b>	<input type="checkbox"/> 36" Alum. \$ _____
<input type="checkbox"/> 48" Steel \$ _____	<input type="checkbox"/> 48" Alum. \$ _____
<input type="checkbox"/> 60" Steel \$ _____	<input type="checkbox"/> 60" Alum. \$ _____

**FRAME MODIFICATION**

<input type="checkbox"/> Stretch \$ _____	<input type="checkbox"/> Shorten \$ _____
---	---

Target CA = \_\_\_\_\_

**NOTES:**Customer: **Isle of Palms**

<b>Equipment Subtotal:</b>	<b>14,876.00</b>
TAX EXEMPT	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
	SC Sales Tax <input type="checkbox"/> FET Tax <input type="checkbox"/>
<b>TOTAL QUOTE:</b>	<b>14,876.00</b>

\*QUOTE VALID FOR 30 DAYS\*





## HUGHES MOTORS, INC.

6841 BULLDOG DRIVE 29406  
P.O. BOX 62709 • CHARLESTON, SC 29419  
TELEPHONE: (843) 553-6410  
FAX NUMBER: (843) 569-1770  
TOLL FREE: 1-800-214-MACK  
WWW.BUNCHTRUCKGROUP.COM



### Mack MD6 References

3/16/2021

#### Bunch Leasing Company

Jay Rossitz

(585)975-9192

2) daily rental units

1) flatbed truck and 1) van body truck

#### Aquatica Pools and Spa's

Thiago Silva

(843)442-9177

2) flatbed dumps

#### Town of Mt Pleasant

Jody Peele

(843)297-1599

3) scow dumps and 1) asphalt patch truck

# Product Information



**0021800 MD642 – 42R MEDIUM DUTY, CLASS 6 w/6.7L (002GH2)**

**Affects:**

**Related:**

**Updated:** January 28, 2020



Drawing on MACK's rich history and knowledge in manufacturing world class tough trucks, the MD6 was designed from the ground up to be a class leader. Every piece of the truck was analyzed to provide what the customer needs to succeed with this Class 6, medium-duty truck.

The MACK MD6, 4x2 configuration is well suited for dry van, refrigerated, fuel/water/waste, towing and recovery, and dump/utility bodies. The MD6 comes powered by the industry leading Cummins B6.7 diesel engine and is matched with the Allison 2500HS six speed transmission with FuelSense™ 2.0 - fuel saving neutral-at-stop technology. Multiple horsepower ratings are available along with an option for the Allison 2500RDS when customers require a power-take-off (PTO).

Sharing some interior components from the MACK Granite, the MD6 cab is a proven solution that takes advantage of economies of scale and maintains the function, comfort and operator oriented environment standard with MACK. Features like the flat bottom steering wheel with tilt and telescoping column, instrument cluster with driver information display and switches for lighting and power windows. The cab dash and floor space were redesigned to accommodate optional three-person seating and to maximize the overall layout and interior space.

The industry has trusted their toughest jobs to MACK for generations. Built in America from light, durable and quality materials, our trucks stand up to the rigors of customer's demands.

The follow pages outline standard truck features. Please refer to the MACK Sales System (MSS) for truck options and additional feature information.

Page 1

© 2020 Mack Trucks, Inc. Information is correct at time of publication and is subject to change without notice. If you see information you believe to be incorrect or incomplete, please contact Sales Engineering at 1-800-868-6225. For the most current and accurate information, always refer to MSS for the electronic version of this document.

# MACK® MD6



## WARRANTY SUMMARY

MD Series Models MD6, MD7

Typical Vocations	Distribution, Short Haul or P&D
Axle Configuration	4 x 2
Basic Coverage	24 months/unlimited miles*
Batteries	12 months/unlimited miles
Chassis Towing	90 days or 5,000 miles (8 047 KM), whichever occurs first*
Air Conditioning	24 months/unlimited miles – air conditioning (sealed system only)
Engine/Emission	Warranty coverage provided by Cummins.
Transmission	Warranty coverage provided by Allison.
Driveline, Rear Axle, Front Steer Axle	24 months/unlimited miles*
Cab Structure & Internal Cab Corrosion	60 months/unlimited miles*
Frame Rail/ Crossmembers	60 months/unlimited miles*
Noise Emission	Life of vehicle*

\*See complete warranty certificate for details.

Shaded areas indicate optional equipment.

All illustrations, specifications and descriptions in this specification are based on the latest product information available at the time of this publication. The right is reserved to make changes in price, materials, equipment, design, specifications, diagrams and models, and to discontinue models of equipment at any time, without notice and without incurring any obligation whatsoever. For more information on additional options and accessories, contact Mack Trucks, Inc. ([www.macktrucks.com](http://www.macktrucks.com)).

## UPTIME SUMMARY

MD Series Models MD6, MD7

Mack OneCall™	12 months
Mack ASIST	12 months
Geotab Basic	12 months

## PURCHASE OPTIONS

Mack OneCall	24-60 months, in 12 mo. increments
Mack ASIST	24-60 months, in 12 mo. increments
Geotab Basic	24-60 months, in 12 mo. increments
Geotab Plus	12-60 months, in 12 mo. increments

## OTHER OPTIONS

Allison Upgrade	Fuel Sense 2.0 MAX
Battery Shut Off	Under cab, passenger side
Engine Block Heater	
Air Filter Indicator	Under hood, restriction indicator mounted to air cleaner
PTO Preparation Kit	Harness & switch kit
Cab Mirrors	Chrome finish & convex mirror heated & motorized
Passenger Seat	Two-person bench seat w/vinyl & under seat storage
Drivers Seat Trim	Modura cloth upgrade seat upholstery
Passenger Seat Trim	Modura cloth upgrade seat upholstery
Passenger Bench Trim	Modura cloth upgrade seat upholstery



# B6.7™



## GENERATIONS OF EXPERIENCE.

- 35+ years of market-leading production
- 12M+ B-series engines produced globally
- 2.25M+ miles of B and L pre-production experience

## DELIVERS UPTIME, BIG TIME.

- Full year base warranty extension in 2017 to 3 year unlimited mileage
- Further peace of mind due to confidence in ultra-reliable product
- 5% average fuel economy improvement on Performance ratings
- 8.5% average fuel economy improvement on Efficiency ratings

An unbeatable legacy means a deep understanding of customers' duty cycles and needs. No matter the application, with the B6.7 you get the lowest cost of operation and maximum uptime.

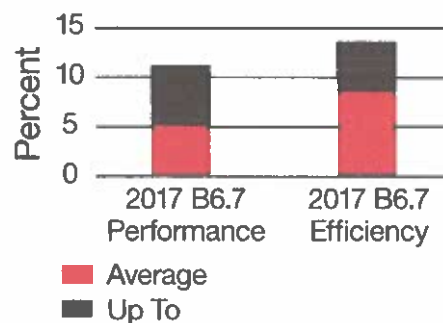
## A LONG HISTORY OF INNOVATION AND RELIABILITY.

American-designed and globally embraced, the MidRange market leader has a proven stable architecture that has evolved to fit customer power needs.

- 35 years of parent bore design
- 20 years of 24 valves
- 15 years of VGT®, EGR and HPCR
- 11 years of 6.7L displacement
- 10 years of aftertreatment

## FOCUS ON FUEL ECONOMY.

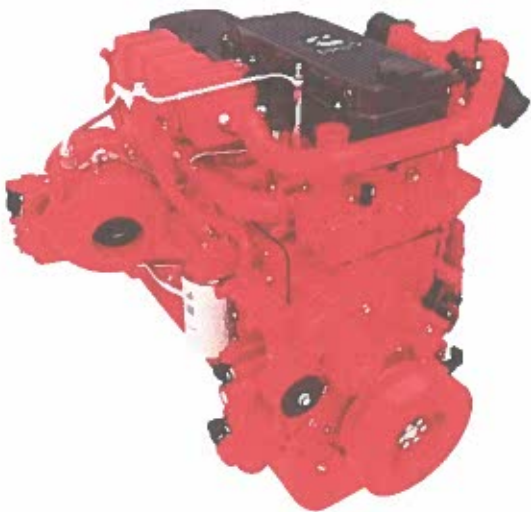
Improvement over 2013 ISB6.7



Engine Model	Power HP (kW)	Peak Torque lb-ft (N•m) @ rpm
<b>325-280 HP Performance Ratings</b>		
B6.7 325	325 (242)	750 (1017) @ 1800
B6.7 300	300 (224)	660 (895) @ 1600
B6.7 280	280 (209)	660 (895) @ 1600
<b>260-200 HP Efficiency Ratings</b>		
B6.7 260	260 (194)	660 (895) @ 1600
B6.7 250	250 (186)	660 (895) @ 1600
B6.7 240	240 (179)	560 (759) @ 1600
B6.7 220	220 (164)	600 (813) @ 1600
B6.7 220	220 (164)	520 (705) @ 1600
B6.7 200	200 (149)	520 (705) @ 1600

The flexibility to uprate with a hardware change only necessary between families.

# Peace of Mind



## **3 Year / unlimited mile base warranty**

- Confidence in ultra-reliable product
- Further peace of mind, beyond proven dependability
- 100% Coverage for:
  - Parts and labor on warrantable failures
  - Aftertreatment
  - Consumables used in the repair
- Travel / Towing is covered
- All with no deductible

# Product Information

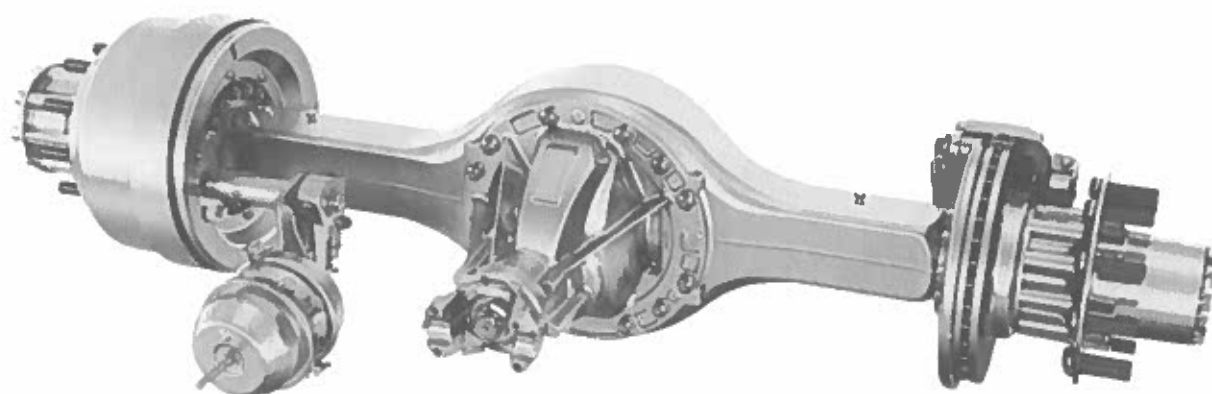


## 252 MERITOR MS-17-13X, MS-19-13X and MS-21-13X (W/O DIFF LOCK), CASING 9.5mm

**Related:** Rear Suspension Single (260)

**Updated:** December 25, 2019

The MS-13X™ single rear drive axle for medium-duty applications is designed for maximum durability and weight savings. The 13X™ is ideal for Class 6 and 7 trucks. Equipped with Meritor Q+ drum brakes, it has a gross axle weight rating (GAWR) ranging from 17,000 to 21,000 pounds.



### Features

- Up to 59 lbs. lighter than MS-14X carrier
- Utilizes same housing as 14X designs
- Power dense gearing design maximizes axle efficiency

MS-13X Specifications			
Axle Model	MS-17-13X	MS-19-13X	MS-21-13X
Sales Symbol	2522033	2522035	2522037
GAWR	17,000 lbs.	19,000 lbs.	21,000 lbs.
Ratios	4.33 – 5.89*	4.33 – 5.89*	4.33 – 5.89*
Wall Thickness @ Spring Perch	.37" (9.5 mm)	.37" (9.5 mm)	.37" (9.5 mm)

\*Refer to the MACK Sales System (MSS) for all available ratios

# Product Information



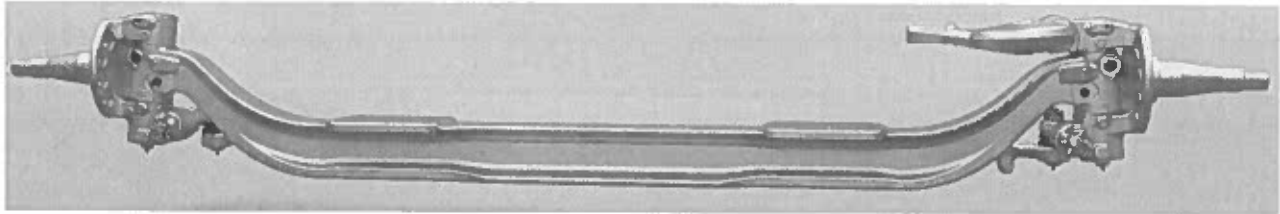
**2402032 10,000LB MERITOR MFS+™ 4500 KG (2400R0)**

**2402033 12,000LB MERITOR MFS+™ 5400 KG (2400S0)**

**Related:** Front Suspension

**Updated:** December 25, 2019

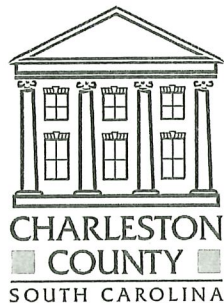
The new Meritor® MFS+™ features the patented, market-leading technology of MFS™ Series front axles. The system saves weight while improved performance and packaging reduces service time. MFS™ Series axles continue a long-running tradition of great packaging flexibility, optimized performance and reliability.



## **Features**

- Optimized beam design provides a stronger and lighter weight package
- Integrated torque plate and tie rod arms reduce weight and increase payload
- Easy-Steer™ bushing offers superior steering
- Lower assembly time and maintenance costs
- Packaged with Meritor Q+™ drum brakes

Devri Detoma, P. E.  
Construction Project Manager II  
Transportation Development



843.202.6144  
Fax: 843.202.6152  
[ddetoma@charlestoncounty.org](mailto:ddetoma@charlestoncounty.org)  
Lonnie Hamilton III Public Services Building  
4045 Bridge View Drive, Suite C204  
North Charleston, SC 29405

April 07, 2021

The Honorable Jimmy Carroll  
Mayor City of Isle of Palms  
P.O. Box 508  
Isle of Palms, SC 29451

Subject: Project Requests - FY 2022 Charleston County Transportation Committee (CTC)  
"C" Fund Projects

Dear Mayor Carroll:

The Public Works staff once again will be preparing lists of resurfacing and new construction projects to be funded under the FY 2022 CTC road improvement program. Prioritizing the resurfacing of existing paved roads will be done utilizing our computerized Pavement Management System which is based on the technical evaluation of the overall condition of each road. This eliminates the need for requests for resurfacing of specific roads. If you should have questions regarding the County's resurfacing program or the Pavement Management System, you may contact County staff at (843) 202-7600.

Historically, the annual CTC allocation for new construction projects (e.g., rocking, paving, or improving earth roads; road drainage; road signage; traffic calming measures; striping; improvements to intersections; sidewalks and bike paths) ranges from \$1 million to \$1.5 million in "C" Funds. The CTC has adopted a policy that allows its funds to be spent only on public right-of-way. If new or additional right-of-way is involved for construction, the requesting entity will be required to obtain the needed right-of-way (this policy does not apply to the TST Annual Allocation Program).

We recognize that priorities within your jurisdiction may change from year to year. Therefore, previously requested projects are not carried over from previous years. We ask that all construction project requests be prioritized each year and that you include a detailed description of the project scope, location, and estimated cost (when possible). Requests will be evaluated on an individual merit basis. Each request must meet certain criteria, such as acceptance by a government agency for perpetual maintenance, existing right-of-way, etc. For traffic calming

requests, please provide documentation that the project meets all applicable guidelines and has been formally approved by the local government agency. Project requests may compete against each other, but will be considered and evaluated separately on individual merit by CTC members and budgeted accordingly.

We are asking that your request(s) for proposed new construction projects be forwarded to us on or **before May 28, 2021**. We ask that you submit a statement from the governmental entity having jurisdiction accepting perpetual maintenance responsibilities for the project if selected. Please keep our funding limits in mind as you prepare your list of requested projects.

County staff members may contact you for additional information as they complete the processing of the requested projects.

If you have any questions regarding details of the program or if any questions arise in the development of your project requests, please contact me at (843) 202-6144.

Sincerely,

A handwritten signature in dark ink, appearing to read "Devri DeToma". The signature is fluid and cursive, with the first name "Devri" and last name "DeToma" clearly distinguishable.

Devri DeToma, P.E.  
Charleston CTC Program Coordinator

cc: W. O'Brien Limehouse, Charleston CTC Chairman