

City of South Daytona

Department of Public Works

1770 Segrave Street • South Daytona, FL 32121 • 386/322-3080



MEMORANDUM

To: James L. Gillis Jr., P.E., City Manager

From: Brian Peek, P.E., Public Works Director

Re: Consideration of approving a scope change, with associated cost increase in the amount of \$45,544, for additional design work on the St Johns River to Sea (SJR2C) Loop Trail (aka SunTrail) with Mead & Hunt.

Date: March 24, 2022

The City of South Daytona authorized Mead & Hunt to perform design work for our portion of the Sun Trail from Sauls Street to Ridge Boulevard. The original design idea had the trail moving from the south side of Reed Canal Road to the north side utilizing the existing crosswalk at the Oak Lea Bridge. Since this proposed crossing would not be at a signalized intersection, staff was concerned for pedestrian safety. As a result, it is being recommended to extend the trail along the south side of Reed Canal Road to Carmen Drive where the traffic signal there could more effectively regulate pedestrian crossings. This proposed extension will require additional design elements for the added length and pedestrian bridge at Carmen Drive.

While this design cost was not originally included in the scope of work, a contingency was planned at a total of \$80,000. The proposed scope change in Appendix "A" of this memo reallocates the contingency to cover the additional \$45,544 required to accommodate extended length, bridge and subsequent traffic signal modifications. This alteration leaves a sum of \$34,456 still available in contingency should any other changes be proposed. Along with the monetary change, the timeframe must also shift to accommodate the added work. Staff has proposed these changes to FDOT (the funding agency for this project) and received a response indicating that they were agreeable to the new terms.

Staff recommends approval of the proposed scope change and subsequent design cost increase of \$45,544 for the St Johns River to Sea (SJR2C) Loop Trail (aka SunTrail) with Mead & Hunt. The design cost increase due to the proposed scope change will be reimbursed by the FDOT once the design has been completed.

Continuing Commitment to Excellence

**SCOPE CHANGE #1 TO
WORK AUTHORIZATION # _____**

PROJECT TITLE: SJR2C LOOP TRAIL (SAULS STREET/MCDONALD ROAD TO CARMEN DRIVE/RIDGE BOULEVARD)

In accordance with the terms of the Work Authorization dated March 9, 2021, between the City of South Daytona, Florida (CITY) and Mead & Hunt Inc. (CONSULTANT) the following Changes to the Scope of Work and Schedule of Payments are agreed to by the parties:

BACKGROUND: The CITY has requested a change to the original trail route which requires additional work to complete the design and permitting of the improvements. The change involves the trail alignment along south side of canal between Oak Lea Drive and the FEC railroad versus along the north side of Reed Canal Road as originally planned. The CITY also desires to consider a precast gravity unit block wall in lieu of a driven pile wall along the canal. These changes result in additional needed work including:

- Design and permitting of a new bridge structure to cross canal adjacent FEC railroad
- Design and permitting of traffic signal modifications at Reed Canal Road and Carmen Drive intersection.
- Additional geotechnical evaluation and recommendations for bridge, precast gravity unit block wall and signal modifications.
- Revisions to the supplement to the Preliminary Engineering Report/Project Development & Environment (PER/PD&E) for these changes

This additional work requires additional time to complete and FDOT has agreed to a revised project schedule as described below.

BASIS OF DESIGN: The basis of the scope change includes the following assumptions:

- Bridge is to match the Oak Lea and Lantern Park bridges
- Bridge structure will be a delegated design product with bridge manufacturer providing signed/sealed design per FDOT requirements
- No modifications to signal poles/foundations are required
- Precast gravity unit block wall will be a delegated design product with manufacturer providing signed/sealed design per FDOT requirements

SCOPE OF WORK: The scope of the additional work is as described below:

CONSULTANT shall provide design and permitting to provide a precast concrete arch culvert bridge crossing of the canal adjacent to the FEC right-of-way. CONSULTANT will provide foundation design with bridge manufacturer providing the structure design. CONSULTANT shall also design bridge amenities to match the other CITY bridges. Permitting will be coordinated with County, SJRWMD and ACOE.

CONSULTANT shall provide design and permitting to provide a protected pedestrian/bike crossing just west of the existing railroad tracks located on Reed Canal Road. Design will include modifications to the existing signal at the intersection of Reed Canal Road and Carmen Drive. A pre-signal will be designed

just west of the tracks along with a crosswalk located prior to the pre-signal on Reed Canal Road. Modifications to the existing signal installation including signal heads, timing, and controller phasing are included. A dedicated pedestrian signal phase may be needed to prevent vehicles from Carmen Drive turning westbound into the path of the pedestrian crossing. Another alternative would be to adjust the existing signal heads for a protective permissive right turn movement on Carmen Drive. Prior to preparing the signal plans a meeting will be held with the CITY, County and the Florida Rail Commission to discuss the changes to the existing signal and to request the existing signal plans and maintenance/operation routine from County. The signal plans will be prepared using the FDOT standards and will be reviewed by both the CITY and County, prior to submittal to FDOT. A preliminary and final plan submission is anticipated, with the final plan submission being concurrent with the Phase 4/100% Design submittal.

See attached Universal Engineering proposal for the additional geotechnical work.

CONSULTANT shall revise Supplement to PER/PD&E to include the revised trail alignment.

SCHEDULE: CONSULTANT will strive to complete the work according to the following revised deliverable schedule:

Phase 2/60% Design	April 15, 2022
Phase 3/90% Design	July 1, 2022
Phase 4/100% Design	December 1, 2022

COMPENSATION: CONSULTANT will invoice for the additional work according to the following:

<u>Work Description</u>	<u>Fee Basis</u>	<u>Fee</u>
Bridge Design/Permitting	Lump Sum	\$16,772
Traffic Signal Modifications Design/Permitting	Lump Sum	\$18,012
Geotechnical Allowance	Actual Cost	\$5,400
PER/PD&E Revisions	Lump Sum	\$5,360
	TOTAL	\$45,544
	Original Contingency Allowance	\$80,000
	Remaining Contingency Allowance	\$34,456

The above lump sum amounts are based on the following estimated manhour breakdown:

Description	Project Manager (hours)	Senior Project Engineer (hours)	Senior Engineer (hours)	Engineer I (hours)	Technician III (hours)	Technician II (hours)	Admin Assistant (hours)	Total (\$)
	\$196.00	\$179.00	\$156.00	\$120.00	\$124.00	\$109.00	\$89.00	
Bridge Design	8	12	24	40	30	4	4	\$ 16,772
Traffic Signal Modifications	8	12	24	40	40	4	4	\$ 18,012
PER/PD&E Revisions	2	6	12	0	12	0	6	\$ 5,360

AUTHORIZATION/ACCEPTANCE:

The scope of services and compensation stated in this scope change are valid for a period of thirty (30) days from date of submission. If authorization to proceed is not received during this period, this proposal may need to be modified by CONSULTANT.

Accepted: CITY OF SOUTH DAYTONA

Approved: MEAD & HUNT, INC.

By: _____

By:  _____

Name: _____

Name: David King, PE

Title: _____

Title: Vice President/Business Unit Leader

The above person is authorized to sign for Client and bind the Client to the terms hereof.

Date: _____

Date: February 25, 2022

PURSUANT TO FLORIDA STATUTE SECTION 558.0035, AN INDIVIDUAL EMPLOYEE OR AGENT OF MEAD & HUNT INC. MAY NOT BE HELD INDIVIDUALLY LIABLE FOR NEGLIGENCE.

IF THE MEAD & HUNT, INC. (CONTRACTOR) HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT CITY HALL, CITY OF SOUTH DAYTONA, 1672 SOUTH RIDGEWOOD AVENUE, SOUTH DAYTONA, FL 32937, CITY MANAGER, JAMES L. GILLIS, JR., (386) 3223000, LGILLIS@SOUTHDAYTONA.ORG



**SJR2C TRAIL SCOPE CHANGE #1
ESTIMATED MANHOUR SCHEDULE
25-Feb-22**

Description	Project Manager (hours)	Senior Project Engineer (hours)	Senior Engineer (hours)	Engineer I (hours)	Technician III (hours)	Technician II (hours)	Admin Assistant (hours)	Total (\$)
	\$196.00	\$179.00	\$156.00	\$120.00	\$124.00	\$109.00	\$89.00	
Bridge Design	8	12	24	40	30	4	4	\$ 16,772
Traffic Signal Modifications	8	12	24	40	40	4	4	\$ 18,012
PER/PD&E Revisions	2	6	12	0	12	0	6	\$ 5,360
							Total	\$ 40,144