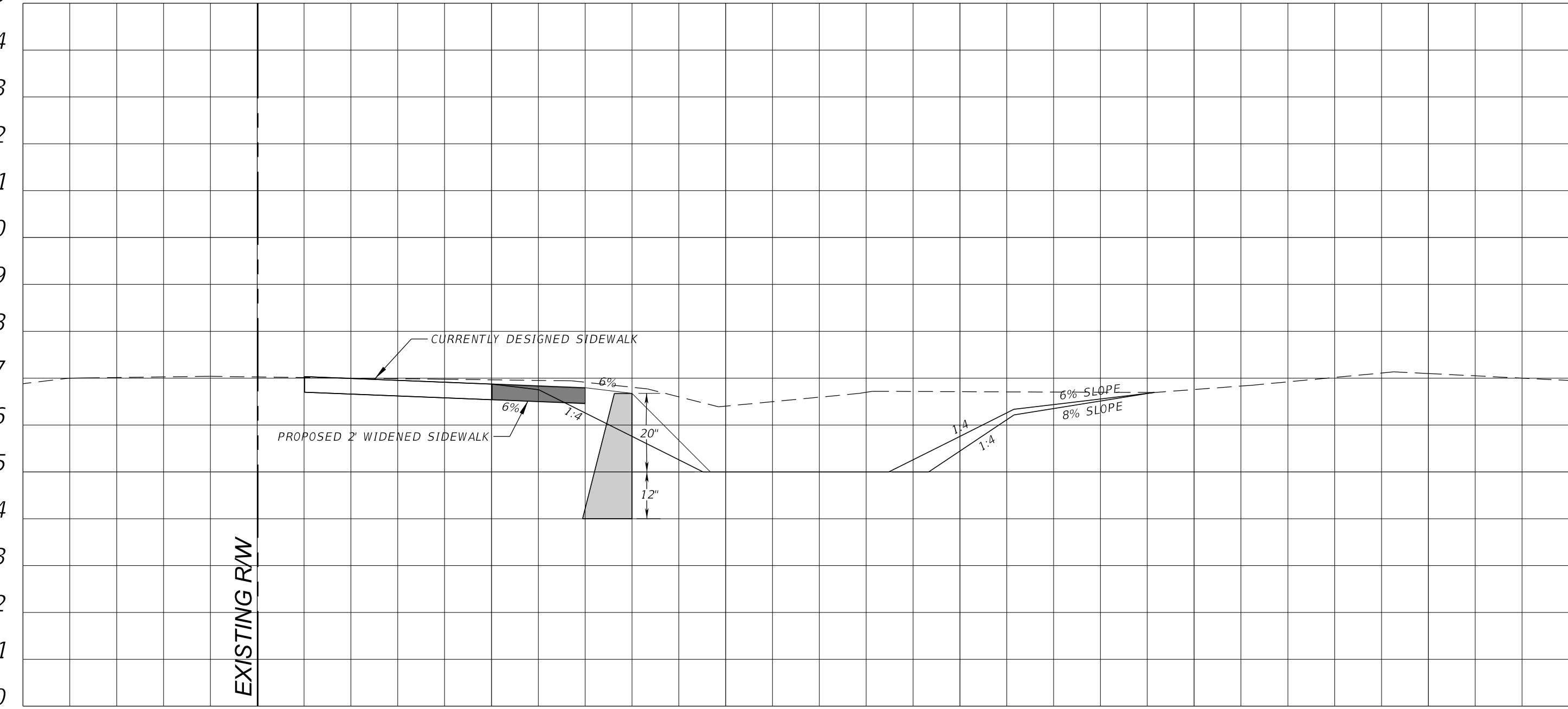


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EXISTING RAW

CURRENTLY DESIGNED SIDEWALK

PROPOSED 2' WIDENED SIDEWALK

-6%

6%

1:4

20"

12"

1:4

1:4

6% SLOPE

8% SLOPE

60

50

40

30

20

10

0



CHANGE ORDER No. 1
to Task Authorization No. 005

Contract: Standard Contract for Services dated January 3, 2014
Task Authorization No.: 005
Project Name: N Spruce Creek Rd. Sidewalk from Nova Road to Angelina Court
(FPN 435539-1-58-01)
TEDS Project Number: 10590
Date: August 6, 2018

Traffic Engineering Data Solutions, Inc. (TEDS) is pleased to offer this scope of services to the City of Port Orange (City) for providing additional design services on the above referenced project.

PROJECT UNDERSTANDING

- As of February 27, 2017, TEDS received Purchase Order #072234 to provide roadway design services for this project, which is to be constructed through the Local Agency Program (LAP).
- As of December 15, 2018, TEDS had submitted 100% plans to FDOT and the City, which resulted in additional comments received January 3, 2018. On February 26, 2018, a meeting was held with the River to Sea TPO and the City of Port Orange to discuss widening the proposed sidewalks along Spruce Creek road to 10 feet wide. On July 26, 2018, the City requested a proposal to revise the construction documents for the West side sidewalk from 8' to 12' (minimum 11'-7") wide and construct a small gravity retaining wall to reduce the area of impact in the swales. Accordingly, this Change Order is being provided to make the necessary revisions to the project plans for widening the sidewalk on the western side of the right of way for approximately 705-ft, such that the future multi-use path project would not need to construct improvements within the area of this project.
- As of August 4, 2017, TEDS had obtained a minor modification to Environmental Resource Permit (ERP) 108363-1 issued by the St. Johns River Water Management District (SJRWMD) for the Spruce Creek Road Drainage Improvements. This minor modification was granted on the basis that the proposed activity would not increase the previously permitted project area, would increase the total impervious area less than 10%, and would not reduce the available treatment volume capacity within the existing swales. However, the additional widening of the sidewalk will require additional modification of the ERP, which may exceed the threshold requirements for minor modifications, thereby requiring a major modification. This change order includes only minimal analysis to reflect the minor adjustments made within the stormwater management system, with no additional attenuation volume storage will be required, which could warrant major revisions to the project design and construction plans.

SCOPE OF SERVICES

Task 9 – Geotechnical Engineering & Recovery Analysis

TEDS will retain Bechtol Engineering & Testing, Inc. (BET) to obtain one (1) additional 20' auger bore and two (2) 10' auger borings for the design of the retaining wall. BET will also conduct a stormwater recovery analysis for the adjacent retention swales. BET will prepare a report summarizing their findings to assist with the major modification of ERP.

Task 10 – Retaining Wall Design

TEDS will retain Florida Bridge and Transportation, Inc. (FBT) for engineering services for the design of a short height retaining wall using a Segmental Block Wall (SBW) system.

Task 11 – Revise Construction Plans

TEDS will prepare the following revisions to the project construction plans:

- *Summary of Pay Items* (1 sheet)
- *Drainage Map* (1 sheet)
- *Typical Sections* (1 sheet)
- *Plan Sheets* (6 sheets)
- *Cross-Sections* (12 sheets) – 100' intervals
- *Retaining Wall Details* (3 sheet)

Task 12 – Reviews and Permitting

TEDS will submit copies of the revised construction plans to the CITY and FDOT for two (2) additional plan review, 100% (again) and Final Plans (after additional 100%). Once comments have been received from the CITY and FDOT, TEDS will revise the plans and respond to comments.

TEDS will prepare and submit an application requesting major modification of the previous ERP, including provision of \$500 check for application review fees, which is based on 50% of the original \$1,000 application review fee (see <https://permitting.sjrwmd.com/epermitting/jsp/feelist.jsp#resource>).

FEES

TEDS shall conduct the work in the tasks described above for the lump sum fees indicated below:

Task	Fee
Task 9 – Geotechnical Engineering & Recovery Analysis	\$2,585.00
Task 10 – Retaining Wall Design	\$4,500.00
Task 11 – Revise Construction Plans	\$8,830.00
Task 12 – Reviews and Permitting	\$7,250.00
Expenses	\$555.00
Net Additional Fee	\$23,720.00



CITY OF PORT ORANGE

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PORT ORANGE, FLORIDA 32129
TELEPHONE 386-506-5500
FAX 386-756-5290
www.port-orange.org

August 6, 2018

River to Sea TPO
c/o Steve Harris
2570 West International
Speedway Boulevard, Suite 100
Daytona Beach, FL 32114-8145

RE: SPRUCE CREEK SIDEWALK PROJECT

Dear Mr. Harris:

The City of Port Orange is requesting additional funds for a partial re-design of the Spruce Creek Sidewalk Project construction plans. As discussed, the current plans are for an 8-foot wide sidewalk on the west side of Spruce Creek Road. However, this segment will be part of the St. Johns River to Sea Loop Trail network. The additional funds requested are to revise the construction plans, modify the St. Johns Permit, and County R/W Use Permit to increase the width of the sidewalk segment to a 12-foot wide trail to meet the FDOT trail standards. The City, FDOT, and River 2 Sea TPO staff recently had a conference call, in which staff agreed to modify the construction plans to a 12-wide trail since the segment is identified as part of the future St. Johns River to Sea Loop Trail within Port Orange. Attached are the Consultant's proposed design fee of \$23,720, a Construction Estimate of \$269,784.62, and an example of the cross-section that can be implemented to help the TPO and the State achieve its criteria for a 12-foot recreational path. (For comparison, the estimate of the originally scoped 8-foot path each side of the roadway is attached at \$235,539.78.) Staff has determined that the requested design fee of \$23,720 is reasonable given the Consultant must engage a wall designer and a geotechnical firm to provide the requisite wall design and global stability analysis services.

The City of Port Orange also has a request in to the TPO for a Volusia County \$4500 permit fee which is expected to increase under this initiative to \$5400. In addition, the City of Port Orange has a request in for a St Johns Minor Modification fee of approximately \$300.

The total request for additional funding for a partial re-design and associated permitting is \$29,420. The City intends to provide the standard 10% of the additional funding request.

Sincerely,

Margaret Tomlinson
Construction & Engineering Manager

MET/mrs