

April 25, 2024

EXHIBIT A



SCOPE OF SERVICES
FOR
INDIAN ROCKS ROAD RECONSTRUCTION (PHASE III)
FROM CARL AVENUE TO BELLEVIEW BOULEVARD

TOWN OF BELLEAIR
PUBLIC WORKS DEPARTMENT

Approved By: TOWN Project Manager

Consultant Project Manager

Signature

Albert Furney

Printed Name

Date

Signature

Robert Garrigues, P.E.

Printed Name

Date

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SCOPE OF SERVICES
FOR CONSULTING ENGINEERING SERVICES
HIGHWAY AND BRIDGE/STRUCTURAL DESIGN

This Exhibit forms an integral part of the agreement between the Town of Belleair (hereinafter referred to as the TOWN) and RS&H, Inc. (hereinafter referred to as the CONSULTANT) relative to the transportation facility described as follows:

Town Project ID: **N/A**

Federal Aid Project No.: **N/A**

TOWN Commissioner District No.: **N/A**

Name and Limits: ***Indian Rocks Road from South of Sunny Lane to Belleview Boulevard***

Speed Design/Posted: ***Indian Rocks Road has been posted 30 mph. Design speed to be the same as posted speed.***

Functional Classification: ***Indian Rocks Road is an Urban Collector.***

Design Vehicle: **WB-40**

Bridge No(s): **N/A**

Railroad Crossing No: **N/A**

1 PURPOSE

The purpose of this Exhibit is to describe the scope of work and the responsibilities of the CONSULTANT and the TOWN in connection with this Supplemental Agreement.

Major work mix includes: *Reconstruction*

Major work groups include: *Roadway design*

Minor work groups include: *Lighting design*

The general objective is for the CONSULTANT to augment the design described in the original scope of services by adding detour information and lighting design to the plans.

The Scope of Services establishes which items of work in the Florida Design Manual (FDM) and other pertinent manuals are specifically prescribed to accomplish the work included in this contract, and also indicate which items of work will be the responsibility of the CONSULTANT and/or the TOWN.

The CONSULTANT shall be aware that as a project is developed, certain modifications and/or improvements to the original concepts may be required. The CONSULTANT shall incorporate these refinements into the design and consider such refinements to be an anticipated and integral part of the work. This shall not be a basis for any supplemental fee request(s).

The CONSULTANT shall demonstrate good project management practices while working on this project. These include communication with the TOWN and others as necessary, management of time and resources, and documentation. The CONSULTANT shall set up and maintain throughout the design of the project a contract file. CONSULTANTS are expected to know the laws and rules governing their professions and are expected to provide services in accordance with current regulations, codes and ordinances and recognized standards

applicable to such professional services. The Consultant shall provide qualified technical and professional personnel to perform to TOWN standards and procedures, the duties and responsibilities assigned under the terms of this agreement. The Consultant shall minimize to the maximum extent possible the TOWN's need to apply its own resources to assignments authorized by the TOWN.

The TOWN will provide contract administration, management services, and technical reviews of all work associated with the development and preparation of contract documents, including Construction documents. The TOWN's technical reviews are for high-level conformance and are not meant to be comprehensive reviews. The CONSULTANT shall be fully responsible for all work performed and work products developed under this Scope of Services. The TOWN may provide job-specific information and/or functions as outlined in this contract, if favorable.

2 PROJECT DESCRIPTION

The CONSULTANT shall investigate the status of the project and become familiar with concepts and commitments (typical sections, alignments, etc.) developed from prior studies and/or activities. If a Preliminary Engineering Report is available from a prior or current Project Development and Environment (PD&E) study, the CONSULTANT shall use the approved concepts as a basis for the design unless otherwise directed by the TOWN.

This supplemental work component will add detour information as well as a lighting analysis to the originally scoped design and corresponding construction drawings.

This project may be designed using Bentley MicroStation GEOPAK Corridor Modeler, or the TOWN's current MicroStation/GEOPAK Corridor Modeler standard and converted to Auto CADD; or may be designed in CADD. Coordinate with Project Manager for current versions of acceptable software. The project shall be designed, delivered and signed and sealed in compliance with the FDOTs CADD Manual published at: <http://www.fdot.gov/cadd/downloads/publications/CADDManual/default.shtm>. FDOT provides a "State Kit" for Bentley product that can be downloaded from <http://www.fdot.gov/cadd/downloads/software/software.shtm>. Deliverables shall be in the form of Computer Aided Design and Drafting (CADD) compatible with the TOWN'S CADD system. The CADD files must include information necessary for engineering and environmental analysis, alternative alignment and design studies. If applicable, plans must be developed utilizing best drafting and plan preparation practices for transportation design projects and must follow FDOT latest Design Manual (Florida Design Manual) and CADD Manual.

2.1 Project General and Roadway (Activities 3, 4, and 5)

Public Involvement: N/A

County: Pinellas

Road Name/Number: CR 233 / Indian Rocks Road

Scope of Work: Reconstruction

Includes: ☐ addition of turn lanes ☐ pedestrian features ☐ new signals ☐ upgraded signals
☐ addition of medians ☐ realignment ☐ Other – Shared Use Path

Additional Information:

Engineer of Record: RS&H, Inc.

Community Awareness Plan

Fact Sheet (public distribution): N/A

☐ YES ☒ NO - Explain: The TOWN will be responsible for public involvement.

Elected Officials Design Phase Submittal Notification:

An email notification will be sent from the TOWN Project Management Manager to local elected officials at each phase review. ☐ YES ☒ NO - Explain: The TOWN will communicate with elected officials on an as needed basis.

Maintenance of Access Plan (business & residential): - Limited access will be maintained to the Town's Roadway System along Indian Rocks Road within the limits of the corridor.

Detour will be needed. ☐ NO ☒ YES

This Project Is Located Near:

Raymond James Stadium	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	Ybor City	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Tropicana Field	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	Plant City	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Downtown Tampa	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	Gulf Blvd. in Pinellas County	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Downtown St. Petersburg	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	Florida State Fairgrounds	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO

If YES to any of the above a special events traffic control plan will be needed.

Encroachment Letters:

Encroachment letters will be sent during design. ☐ YES ☒ NO

Other:

Other Agency Presentations/Meetings: The CONSULTANT shall attend and/or provide support to the TOWN for any agency meetings. See Section 3.1.11.

Joint Project Agreements: N/A

Supplemental Specification Preparation: N/A

Plan Type: *The roadway plans shall be prepared in a Plan format. Profile sheets shall be provided, if necessary, to show the vertical controls that are needed for the construction of these projects. The plan (and profile) sheets shall be plotted at a horizontal scale of 1" = 40' on 11" x 17" plan format.*

Limits: ***Indian Rocks Road from south of Sunny Lane to Belview Boulevard***

Typical Section:

Indian Rocks Road: Two-lane undivided urban section with open drainage.

Pavement Design: N/A

Cross Slope: N/A

Transit Route Features: N/A

Major Intersections/Interchanges: N/A

Roadway Alternative Analysis: N/A

Level of TCP Plans: 1

Temporary Lighting: N/A

Temporary Signals: N/A

Temporary Drainage: N/A

Design Exceptions: N/A

Back of Sidewalk Profiles: N/A

2.2 Drainage (Activities 6a and 6b) – N/A

2.3 Utilities Coordination (Activity 7) – N/A

2.4 Environmental Permits, Compliances, and Clearances (Activity 8) – N/A

2.5 Structures (Activities 9 – 18) – N/A

2.6 Signing and Pavement Markings (Activities 19 & 20) – N/A

2.7 Signalization (Activities 21 & 22) – N/A

2.8 Lighting (Activities 23 & 24)

The CONSULTANT will prepare the lighting design for incorporation into the plans.

2.9 Landscape Architecture (Activities 25 & 26) - N/A

2.10 Survey (Activity 27) – N/A

2.11 Photogrammetry (Activity 28) - N/A

2.12 Mapping (Activity 29) – N/A

2.13 Terrestrial Mobile LiDAR (Activity 30) - N/A

2.14 Architecture (Activity 31) - N/A

2.15 Noise Barriers (Activity 32) - N/A

2.16 Intelligent Transportation Systems (Activities 33 & 34) - N/A

2.17 Geotechnical (Activity 35) – N/A

2.18 3D Modeling (Activity 36) – N/A

2.19 Project Schedule

The schedule will be finalized once the supplemental SHPO analysis is underway.

2.20 Submittals

The CONSULTANT shall furnish construction contract documents as required by the TOWN to adequately control, coordinate, and approve the work. The TOWN will distribute submittals for review. The TOWN will require a pdf of all project documents at each submittal.

2.21 Provisions for Work

All work shall be prepared with English units in accordance with the latest editions of standards and requirements utilized by the TOWN which include, but are not limited to, publications such as:

- General
 - Title 29, Part 1910, Standard 1910.1001, Code of Federal Regulations (29 C.F.R. 1910.1001) – Asbestos Standard for Industry, U.S. Occupational Safety and Health Administration (OSHA)

- 29 C.F.R. 1926.1101 – Asbestos Standard for Construction, OSHA
- 40 C.F.R. 61, Subpart M - National Emission Standard for Hazardous Air Pollutants (NESHAP), Environmental Protection Agency (EPA)
- 40 C.F.R. 763, Subpart E – Asbestos-Containing Materials in Schools, EPA
- 40 C.F.R. 763, Subpart G – Asbestos Worker Protection, EPA
- Americans with Disabilities Act (ADA) Standards for Accessible Design
- AASHTO – A Policy on Design Standards Interstate System
- AASHTO – Roadside Design Guide
- AASHTO – Roadway Lighting Design Guide
- AASHTO – A Policy for Geometric Design of Highways and Streets
- AASHTO – Highway Safety Manual
- Rule Chapter 5J-17, Florida Administrative Code (F.A.C.), Standards of Practice for Professional Surveyors and Mappers
- Chapter 469, Florida Statutes (F.S.) – Asbestos Abatement
- Rule Chapter 62-257, F.A.C., Asbestos Program
- Rule Chapter 62-302, F.A.C., Surface Water Quality Standards
- Code of Federal Regulations (C.F.R.)
- Florida Administrative Codes (F.A.C.)
- Chapters 20, 120, 215, 455, Florida Statutes (F.S.) – Florida Department of Business & Professional Regulations Rules
- Florida Department of Environmental Protection Rules
- FDOT Basis of Estimates Manual
- FDOT Computer Aided Design and Drafting (CADD) Manual
- FDOT Standard Plans for Road Construction
- FDOT Flexible Pavement Design Manual
- FDOT - Florida Roundabout Guide
- FDOT Handbook for Preparation of Specifications Package
- FDOT Instructions for Design Standards
- FDOT Instructions for Structures Related Design Standards
- FDOT Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (“Florida Greenbook”)
- FDOT Materials Manual
- FDOT Pavement Type Selection Manual
- FDOT Plans Preparation Manual Design Manual
- FDOT Procedures and Policies
- FDOT Project Development and Environmental Manual
- FDOT Project Traffic Forecasting Handbook
- FDOT Public Involvement Handbook
- FDOT Rigid Pavement Design Manual
- FDOT Standard Specifications for Road and Bridge Construction
- FDOT Utility Accommodation Manual
- Federal Highway Administration (FHWA) - Manual on Uniform Traffic Control Devices (MUTCD)
- FHWA – National Cooperative Highway Research Program (NCHRP) Report 672, Roundabouts: An Informational Guide
- FHWA Roadway Construction Noise Model (RCNM) and Guideline Handbook
- Florida Fish and Wildlife Conservation Commission - Standard Manatee Construction Conditions 2005
- Florida Statutes (F.S.)
- Florida’s Level of Service Standards and Guidelines Manual for Planning
- Model Guide Specifications – Asbestos Abatement and Management in Buildings, National Institute for Building Sciences (NIBS)
- Quality Assurance Guidelines
- Safety Standards
- Any special instructions from the DEPARTMENT

- Roadway
 - FDOT – Florida Intersection Design Guide
 - FDOT - Project Traffic Forecasting Handbook
 - FDOT - Quality/Level of Service Handbook
 - Florida’s Level of Service Standards and Highway Capacity Analysis for the SHS
 - Transportation Research Board (TRB) - Highway Capacity Manual
- Permits
 - Chapter 373, F.S. – Water Resources
 - US Fish and Wildlife Service Endangered Species Programs
 - Florida Fish and Wildlife Conservation Commission Protected Wildlife Permits
 - Bridge Permit Application Guide, COMDTPUB P16591.3C
 - Building Permit
- Drainage
 - FDOT Bridge Hydraulics Handbook
 - FDOT Culvert Handbook
 - FDOT Drainage Manual
 - FDOT Erosion and Sediment Control Manual
 - FDOT Exfiltration Handbook
 - FDOT Hydrology Handbook
 - FDOT Open Channel Handbook
 - FDOT Optional Pipe Materials Handbook
 - FDOT Storm Drain Handbook
 - FDOT Stormwater Management Facility Handbook
 - FDOT Temporary Drainage Handbook
 - FDOT Drainage Connection Permit Handbook
 - FDOT Bridge Scour Manual
- Survey and Mapping
 - All applicable Florida Statutes and Administrative Codes
 - Applicable Rules, Guidelines Codes and authorities of other Municipal, TOWN, State and Federal Agencies.
 - FDOT Aerial Surveying Standards for Transportation Projects Topic 550-020-002
 - FDOT Right of Way Mapping Handbook
 - FDOT Surveying Procedure Topic 550-030-101
 - Florida Department of Transportation Right of Way Procedures Manual
 - Florida Department of Transportation Surveying Handbook
 - Right of Way Mapping Procedure 550-030-015
- Traffic Engineering and Operations and ITS
 - AASHTO - An Information Guide for Highway Lighting
 - AASHTO - Guide for Development of Bicycle Facilities
 - FHWA Standard Highway Signs Manual
 - FDOT Manual on Uniform Traffic Studies (MUTS)
 - FDOT Median Handbook
 - FDOT Traffic Engineering Manual
 - National Electric Safety Code
 - National Electrical Code
- Traffic Monitoring
 - American Institute of Steel Construction (AISC) Manual of Steel Construction, referred to as “AISC Specifications”
 - American National Standards Institute (ANSI) RP-8-00 Recommended Practice for Roadway Lighting

- AASHTO AWS D1.1/ANSI Structural Welding Code – Steel
- AASHTO D1.5/AWS D1.5 Bridge Welding Code
- FHWA Traffic Detector Handbook
- FDOT General Interest Roadway Data Procedure
- FHWA Traffic Monitoring Guide
- FDOT's Traffic/Polling Equipment Procedures
- Structures
 - AASHTO Load and Resistance Factor Design (LRFD) Bridge Design Specifications and Interims
 - AASHTO LRFD Movable Highway Bridge Design Specifications and Interims
 - AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, and Interims.
 - AASHTO/-AWS-D1. 5M/D1.5: An American National Standard Bridge Welding Code
 - AASHTO Guide Specifications for Structural Design of Sound Barriers
 - AASHTO Manual for Condition Evaluation and Load and Resistance Factor Rating (LRFR) of Highway Bridges
 - FDOT Bridge Load Rating Manual
 - FDOT Structures Manual
 - FDOT Structures Design Bulletins (available on FDOT Structures web site only)
- Geotechnical
 - FHWA Checklist and Guidelines for Review of Geotechnical Reports and Preliminary Specifications
 - Manual of Florida Sampling and Testing Methods
 - Soils and Foundation Handbook

2.22 Information provided by the TOWN when appropriate and /or available, the TOWN will provide project data including:

- Numbers for field books.
- Preliminary Horizontal Network Control.
- Access for the CONSULTANT to utilize the TOWN's Information Technology Resources.
- All TOWN agreements with Utility Agency Owner (UAO).
- All certifications necessary for project letting.
- Available traffic and planning data.
- All approved utility relocations.
- Engineering standards review services.
- All available information in the possession of the TOWN pertaining to utility companies whose facilities may be affected by the proposed construction.
- All future information that may come to the TOWN pertaining to subdivision plans so that the CONSULTANT may take advantage of additional areas that can be utilized as part of the existing right of way.
- Systems traffic for Projected Design Year, with K, D, and T factors.
- Existing right of way maps.
- PD&E Documents
- Design Reports
- Phase reviews of plans and engineering documents.
- Regarding Environmental Permitting Services:
 - Approved Permit Document when available.
 - Approval of all contacts with environmental agencies.
 - General philosophies and guidelines of the TOWN to be used in the fulfillment of this contract. Objectives, constraints, budgetary limitations, and time constraints will be completely defined by the Project Manager.
 -
 - Appropriate signatures on application forms.

3 PROJECT COMMON AND PROJECT GENERAL TASKS

Project Common Tasks

Project Common Tasks, as listed below, are work efforts that are applicable to many project activities, 4 (Roadway Analysis) through 35 (Geotechnical). These tasks are to be included in the project scope in each applicable activity when the described work is to be performed by the CONSULTANT.

Cost Estimates: *The CONSULTANT shall be responsible for producing a design and construction cost estimate at the completion of each design phase submittal and reviewing and updating the cost estimate when scope changes occur and/or at milestones of the project.*

Field Reviews: *The CONSULTANT shall make as many trips to the project site as required to obtain necessary data for all elements of the project, but no less than one trip.*

Technical Meetings: *The CONSULTANT shall attend all technical meetings necessary to execute the Scope of Services of this contract. This includes meetings with TOWN and/or Agency staff, between disciplines and subconsultants, such as access management meetings, pavement design meetings, local governments, railroads, airports, progress review meetings (phase review), and miscellaneous meetings. The CONSULTANT shall prepare, and submit to the TOWN's Project Manager for review, the meeting minutes for all meetings attended by them. The meeting minutes are due within seven (7) calendar days of attending the meeting. For basis of estimates apply one meeting at 60%, one meeting at 100%, and one additional meeting.*

Quality Assurance/Quality Control: *It is the intention of the TOWN that design CONSULTANTS, including their subconsultant(s), are held responsible for their work, including plans review. The purpose of CONSULTANT plan reviews is to ensure that CONSULTANT plans follow the plan preparation procedures outlined in the FDOT Design Manual, that TOWN, state and federal design criteria are followed with the TOWN concept, and that the CONSULTANT submittals are complete. All subconsultant document submittals shall be submitted by the subconsultant directly to the CONSULTANT for their independent Quality Assurance/Quality Control review and subsequent submittal to the TOWN.*

It is the CONSULTANT'S responsibility to independently and continually QC their plans and other deliverables. The CONSULTANT should regularly communicate with the TOWN's Project Manager to discuss and resolve issues or solicit opinions from those within designated areas of expertise.

The CONSULTANT shall be responsible for the professional quality, technical accuracy and coordination of all surveys, designs, drawings, specifications and other services furnished by the CONSULTANT and their subconsultant(s) under this contract.

The CONSULTANT shall provide a Quality Control Plan that describes the procedures to be utilized to verify, independently check, and review all maps, design drawings, specifications, and other documentation prepared as a part of the contract. The CONSULTANT shall describe how the checking and review processes are to be documented to verify that the required procedures were followed. The Quality Control Plan shall be one specifically designed for this project. The CONSULTANT shall submit a Quality Control Plan for approval within twenty-one (21) calendar days of the written Notice to Proceed and it shall be signed by the CONSULTANT's Project Manager and the CONSULTANT QC Manager. The Quality Control Plan shall include the names of the CONSULTANT's staff that will perform the quality control reviews. The Quality Control reviewer shall be a Florida Licensed Professional Engineer fully prequalified under F.A.C. 14-75 in the work type being reviewed. A marked up set of prints from a Quality Control Review indicating the reviewers for each component (structures, roadway, drainage, signals, geotechnical, signing and marking, lighting, surveys, etc.) and a written resolution of comments on a point-by-point basis will be required, if requested by the TOWN, with each phase submittal. The responsible Professional Engineer, Landscape Architect, or Professional Surveyor & Mapper that performed the Quality Control review will sign a statement certifying that the review was conducted and found to meet required specifications.

The CONSULTANT shall, without additional compensation, correct all errors or deficiencies in the designs, maps, drawings, specifications and/or other products and services.

Supervision: *The CONSULTANT shall supervise all technical design activities.*

Coordination: *The CONSULTANT shall coordinate with all disciplines of the project to produce the Final Design and Construction Documents.*

Project General Tasks

Project General Tasks, described in Sections 3.1 through 3.13 below, represent work efforts that are applicable to the project as a whole and not to any one or more specific project activity. The work described in these tasks shall be performed by the CONSULTANT when included in the project scope.

- 3.1 Public Involvement – N/A**
 - 3.1.1 Community Engagement Plan – N/A**
 - 3.1.2 Notifications – N/A**
 - 3.1.3 Preparing Mailing Lists – N/A**
 - 3.1.4 Median Modification Letters – N/A**
 - 3.1.5 Driveway Modification Letters – N/A**
 - 3.1.6 Newsletters – N/A**
 - 3.1.7 Renderings and Fly-Throughs – N/A**
 - 3.1.8 PowerPoint Presentations – N/A**
 - 3.1.9 Public Meeting Preparations – N/A**
 - 3.1.10 Public Meeting Attendance and Follow-up – N/A**
 - 3.1.11 Other Agency Meetings – N/A**
 - 3.1.12 Web Site – N/A**
- 3.2 Joint Project Agreements – N/A**
- 3.3 Specifications Package Preparation – N/A**
- 3.4 Contract Maintenance**
- 3.5 Value Engineering (Multi-Discipline Team) Review – N/A**
- 3.6 Prime Consultant Project Manager Meetings**
 - The CONSULTANT shall participate in meetings with the Town of Belleair as well as meetings with Duke Energy associated with the lighting design and agency coordination.
- 3.7 Plans Update – N/A**
- 3.8 Post Design Services – N/A**
- 3.9 Digital Delivery – N/A**
- 3.10 Risk Assessment Workshop – N/A**
- 3.11 Railroad, Transit and/or Airport Coordination – N/A**
- 3.12 Landscape and Existing Vegetation Coordination – N/A**
- 3.13 Other Project General Tasks – N/A**

4 ROADWAY ANALYSIS

The CONSULTANT shall analyze and document Roadway Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

- 4.1 Typical Section Package – N/A
- 4.2 Pavement Type Selection Report – N/A
- 4.3 Pavement Design Package – N/A
- 4.4 Cross-Slope Correction – N/A
- 4.5 Horizontal/Vertical Master Design Files – N/A
- 4.6 Access Management – N/A
- 4.7 Roundabout Evaluation – N/A
- 4.8 Roundabout Final Design Analysis – N/A
- 4.9 Cross Section Design Files – N/A

4.10 Traffic Control Analysis

- The CONSULTANT shall design a safe and effective detour plan diverting traffic at the north and south end of the corridor and addressing those residents that require access from Indian Rocks Road.

4.11 Master TCP Design Files

- The CONSULTANT shall develop master Traffic Control Plan (TCP) files showing all Detours.

- 4.12 Selective Clearing and Grubbing – N/A
- 4.14 Design Exceptions – N/A
- 4.15 Design Report – N/A
- 4.16 Quantities – N/A
- 4.17 Cost Estimate – N/A
- 4.18 Technical Special Provisions – N/A
- 4.19 Other Roadway Analysis – N/A

4.20 Field Reviews

- 4.21 Monitor Existing Structures – N/A

4.22 Technical Meetings

4.23 Quality Assurance/Quality Control

- 4.24 Independent Peer Review – NA

4.25 Supervision

4.26 Coordination

5 ROADWAY PLANS

The CONSULTANT shall augment the current plans to include the data required by this supplemental agreement.

- 5.1 Key Sheet – N/A
- 5.2 Summary of Pay Items Including Quantity Input – N/A

5.3 Typical Section Sheets – N/A**5.3.1 Typical Sections****5.3.2 Typical Section Details****5.4 General Notes/Pay Item Notes – N/A****5.5 Summary of Quantities Sheets – N/A****5.6 Project Layout – N/A****5.7 Plan/Profile Sheet – N/A****5.8 Profile Sheet – N/A****5.9 Plan Sheet – N/A****5.10 Special Profile – N/A****5.11 Back-of-Sidewalk Profile Sheet – N/A****5.12 Interchange Layout Sheet – N/A****5.13 Ramp Terminal Details (Plan View) – N/A****5.14 Intersection Layout Details – N/A****5.15 Special Details – N/A****5.16 Cross-Section Pattern Sheet(s) – N/A****5.17 Roadway Soil Survey Sheet(s) – N/A****5.18 Cross Sections – N/A****5.19 Temporary Traffic Control Plan Sheets – N/A****5.20 Temporary Traffic Control Cross Section Sheets – N/A****5.21 Temporary Traffic Control Detail Sheets**

The CONSULTANT shall provide temporary Traffic Control General notes, Phasing notes, Detour sheets and any details necessary to provide a clear Traffic Control Plan.

5.22 Utility Adjustment Sheets – NA**5.23 Selective Clearing and Grubbing Sheet(s) – NA****5.25 Project Network Control Sheet(s) – NA****5.26 Environmental Detail Sheets – NA****5.27 Utility Verification Sheet(s) (SUE Data) – NA****5.28 Quality Assurance/Quality Control****5.29 Supervision****6a DRAINAGE ANALYSIS – N/A****6a.1 Drainage Map Hydrology – N/A****6a.2 Base Clearance Report – N/A****6a.3 Pond Siting Analysis and Report – N/A****6a.4 Design of Cross Drains – N/A****6a.5 Design of Ditches – N/A**

- 6a.6 Design of Stormwater Management Facility (Offsite or Infield Pond) – N/A**
- 6a.7 Design of Stormwater Management Facility (Roadside Ditch as Linear Pond) – N/A**
- 6a.8 Design of Floodplain Compensation – N/A**
- 6a.9 Design of Storm Drains – N/A**
- 6a.10 Optional Culvert Material – NA**
- 6a.11 French Drain Systems – N/A**
- 6a.12 Drainage Wells – N/A**
- 6a.13 Drainage Design Documentation Report – N/A**
- 6a.14 Bridge Hydraulic Report – N/A**
- 6a.15 Temporary Drainage Analysis – N/A**
- 6a.16 Cost Estimate – N/A**
- 6a.17 Technical Special Provisions - N/A**
- 6a.18 Other Drainage Analysis – N/A**
- 6a.19 Field Reviews – N/A**
- 6a.20 Technical Meetings – N/A**
- 6a.21 Environmental Look-Around Meetings – N/A**
- 6a.22 Quality Assurance/Quality Control – NA**
- 6a.23 Independent Peer Review - N/A**
- 6a.24 Supervision – N/A**
- 6a.25 Coordination – N/A**

6b DRAINAGE PLANS – N/A

- 6b.1 Drainage Map – N/A**
- 6b.2 Bridge Hydraulics Recommendation Sheet – N/A**
- 6b.3 Summary of Drainage Structures – N/A**
- 6b.4 Optional Pipe/Culvert Material – N/A**
- 6b.5 Drainage Structure Sheets – N/A**
- 6b.6 Miscellaneous Drainage Detail – N/A**
- 6b.7 Lateral Ditch Plan/Profile – N/A**
- 6b.8 Lateral Ditch Cross-sections – N/A**
- 6b.9 Retention/Detention Pond Detail Sheets – N/A**
- 6b.10 Retention Pond Cross Sections – N/A**
- 6b.11 Erosion Control Plan Sheets – N/A**
- 6b.12 SWPPP Sheets – N/A**
- 6b.13 Quality Assurance/Quality Control – N/A**
- 6b.14 Supervision – N/A**

7 UTILITIES – N/A

- 7.1 Utility Kickoff Meeting – NA**
- 7.2 Identify Existing Utility Agency Owner(s) – NA**
- 7.3 Make Utility Contacts – N/A**
- 7.4 Exception Processing – NA**
- 7.5 Preliminary Utility Meeting – NA**
- 7.6 Individual/Field Meetings – NA**
- 7.7 Collect and Review Plans and Data from UAO(s) – Preliminary Plan, 60% and 100% Submittal -N/A**
- 7.8 Subordination of Easements Coordination – NA**
- 7.9 Utility Design Meeting – 60% Submittal – N/A**
- 7.10 Review Utility Markups & Work Schedules and Processing of Schedules & Agreements – NA**
- 7.11 Utility Coordination/Follow-up – N/A**
- 7.12 Utility Constructability Review – NA**
- 7.13 Additional Utility Services – NA**
- 7.14 Processing Utility Work by Highway Contractor (UWHC) – NA**
- 7.15 Contract Plans to UAO(s) – N/A**
- 7.16 Certification/Close-Out – NA**
- 7.17 Other Utilities – N/A**

8 ENVIRONMENTAL PERMITS, COMPLIANCE AND CLEARANCES – N/A

- 8.1 Preliminary Project Research – N/A**
- 8.2 Field Work – N/A**
 - 8.2.1 Pond Site Alternative – NA**
 - 8.2.2 Establish Wetland Jurisdictional Lines and Assessments – N/A**
 - 8.2.3 Species Surveys – NA**
 - 8.2.4 Archeological Surveys – NA**
- 8.3 Agency Verification of Wetland Data – N/A**
- 8.4 Complete and Submit All Required Permit Applications – N/A**
- 8.5 Review Dredge and Fill Sketches (as needed) – N/A**
- 8.6 Prepare USCG Permit – NA**
- 8.7 Prepare Water Management District Right of Way Occupancy Permit – NA**
- 8.8 Prepare Coastal Construction Control Line (CCCL) Permit Application (as needed) – NA**
- 8.9 Prepare Tree Permit Information – NA**
- 8.10 Mitigation Design – NA**
- 8.11 Mitigation Coordination and Meetings – NA**
- 8.12 Other Environmental Permits – NA**
- 8.13 Technical Support to the TOWN for Environmental Clearances and Re-evaluations – NA**

- 8.14 Preparation of Environmental Clearances and Reevaluations – N/A**
- 8.15 Contamination Impact Analysis – NA**
- 8.16 Asbestos Survey – N/A**
- 8.17 Technical Meetings – N/A**
- 8.18 Quality Assurance/Quality Control - N/A**
- 8.19 Supervision – N/A**
- 8.20 Coordination – N/A**
- 9 STRUCTURES - SUMMARY & MISCELLANEOUS TASKS & DRAWINGS – N/A**
- 10 STRUCTURES - BRIDGE DEVELOPMENT REPORT – N/A**
- 11 STRUCTURES - TEMPORARY BRIDGE – NA**
- 12 STRUCTURES - SHORT SPAN CONCRETE BRIDGE – NA**
- 13 STRUCTURES - MEDIUM SPAN CONCRETE BRIDGE – NA**
- 14 STRUCTURES - STRUCTURAL STEEL BRIDGE – NA**
- 15 STRUCTURES - SEGMENTAL CONCRETE BRIDGE – NA**
- 16 STRUCTURES - MOVABLE SPAN – NA**
- 17 STRUCTURES - RETAINING WALLS – NA**
- 18 STRUCTURES – MISCELLANEOUS – NA**
- 19 SIGNING AND PAVEMENT MARKING ANALYSIS – N/A**
 - 19.1 Traffic Data Analysis – NA**
 - 19.2 No Passing Zone Study – NA**
 - 19.3 Reference and Master Design File – N/A**
 - 19.4 Multi-Post Sign Support Calculations – NA**
 - 19.5 Sign Panel Design Analysis – NA**
 - 19.6 Sign Lighting/Electrical Calculations – NA**
 - 19.7 Quantities – N/A**
 - 19.8 Cost Estimate – N/A**
 - 19.9 Technical Special Provisions – NA**
 - 19.10 Other Signing and Pavement Marking Analysis – NA**
 - 19.11 Field Reviews – N/A**
 - 19.12 Technical Meetings – NA**
 - 19.13 Quality Assurance/Quality Control – N/A**
 - 19.14 Independent Peer Review – NA**
 - 19.15 Supervision – N/A**
 - 19.16 Coordination – N/A**

20 SIGNING AND PAVEMENT MARKING PLANS – N/A

- 20.1 Key Sheet – N/A**
- 20.2 Summary of Pay Items – N/A**
- 20.3 Tabulation of Quantities – N/A**
- 20.4 General Notes//Pay Item Notes – N/A**
- 20.5 Project Layout – N/A**
- 20.6 Plan Sheet – N/A**
- 20.7 Typical Details – N/A**
- 20.8 Guide Sign Work Sheet(s) – N/A**
- 20.9 Traffic Monitoring Site – N/A**
- 20.10 Cross Sections – N/A**
- 20.11 Special Service Point Details – N/A**
- 20.12 Special Details – N/A**
- 20.13 Interim Standards – N/A**
- 20.14 Quality Assurance/Quality Control – N/A**
- 20.15 Supervision – N/A**

21 SIGNALIZATION ANALYSIS – N/A**22 SIGNALIZATION PLANS – N/A****23 LIGHTING ANALYSIS**

Includes lighting analysis and design. Power analysis and design. Coordination with Duke Energy.

24 LIGHTING PLANS

RS&H will provide lighting plans with electrical connection details.

25 LANDSCAPE ARCHITECTURE ANALYSIS – NA**26 LANDSCAPE ARCHITECTURE PLANS – NA****27 SURVEY – N/A**

- 27.1 Horizontal Project Control (HPC) – N/A**
- 27.2 Vertical Project Control (VPC) – N/A**
- 27.3 Alignment and/or Existing Right of Way (R/W) Lines – N/A**
- 27.4 Aerial Targets – N/A**
- 27.5 Reference Points – N/A**
- 27.6 Topography/Digital Terrain Model (DTM) (3D) – N/A**
- 27.7 Planimetric (2D) – N/A**
- 27.8 Roadway Cross Sections/Profiles – N/A**
- 27.9 Side Street Surveys – N/A**
- 27.10 Underground Utilities – N/A**
- 27.11 Outfall Survey – N/A**

- 27.12 **Drainage Survey – N/A**
- 27.13 **Bridge Survey (Minor/Major) – N/A**
- 27.14 **Channel Survey – N/A**
- 27.15 **Pond Site Survey – N/A**
- 27.16 **Mitigation Survey – N/A**
- 27.17 **Jurisdiction Line Survey – N/A**
- 27.18 **Geotechnical Support – N/A**
- 27.19 **Sectional/Grant Survey – N/A**
- 27.20 **Subdivision Location – N/A**
- 27.21 **Maintained R/W – N/A**
- 27.22 **Boundary Survey – N/A**
- 27.23 **Water Boundary Survey – N/A**
- 27.24 **Right of Way Staking, Parcel / Right of Way Line – N/A**
- 27.25 **Right of Way Monumentation – N/A**
- 27.26 **Line Cutting – N/A**
- 27.27 **Work Zone Safety – N/A**
- 27.28 **Miscellaneous Surveys – N/A**
- 27.29 **Supplemental Surveys – N/A**
- 27.30 **Document Research – N/A**
- 27.31 **Field Review – N/A**
- 27.32 **Technical Meetings – N/A**
- 27.33 **Quality Assurance/Quality Control (QA/QC) – N/A**
- 27.34 **Supervision – N/A**
- 27.35 **Coordination – N/A**

- 28 **PHOTOGRAMMETRY – N/A**
- 29 **MAPPING – N/A**
- 30 **TERRESTRIAL MOBILE LiDAR – N/A**
- 31 **ARCHITECTURE DEVELOPMENT – N/A**
- 32 **NOISE BARRIERS IMPACT DESIGN ASSESSMENT IN THE DESIGN PHASE – N/A**
- 33 **INTELLIGENT TRANSPORTATION SYSTEMS ANALYSIS – N/A**
- 34 **INTELLIGENT TRANSPORTATION SYSTEMS PLANS – N/A**
- 35 **GEOTECHNICAL – N/A**
 - 35.1 **Document Collection and Review – N/A**
 - 35.2 **Develop Detailed Boring Location Plan – N/A**
 - 35.3 **Stake Borings/Utility Clearance – N/A**

- 35.4 Muck Probing – N/A**
- 35.5 Coordinate and Develop TTCP for Field Investigation – N/A**
- 35.6 Drilling Access Permits – N/A**
- 35.7 Property Clearances – N/A**
- 35.8 Groundwater Monitoring – N/A**
- 35.9 LBR / Resilient Modulus Sampling – N/A**
- 35.10 Coordination of Field Work – N/A**
- 35.11 Soil and Rock Classification – N/A**
- 35.12 Design LBR – N/A**
- 35.13 Laboratory Data – N/A**
- 35.14 Seasonal High Water Table – N/A**
- 35.15 Parameters for Water Retention Areas – N/A**
- 35.16 Delineate Limits of Unsuitable Material – N/A**
- 35.17 Electronic Files for Cross-Sections – N/A**
- 35.18 Embankment Settlement and Stability – N/A**
- 35.19 Monitor Existing Structures – N/A**
- 35.20 Stormwater Volume Recovery and/or Background Seepage Analysis – N/A**
- 35.21 Geotechnical Recommendations – N/A**
- 35.22 Pavement Condition Survey and Pavement Evaluation Report – N/A**
- 35.23 Preliminary Roadway Report – N/A**
- 35.24 Final Report – N/A**
- 35.25 Auger Boring Drafting – N/A**
- 35.26 SPT Boring Drafting – N/A**
- 35.27 Develop Detailed Boring Location Plan – N/A**
- 35.28 Stake Borings/Utility Clearance – N/A**
- 35.29 Coordinate and Develop TTCP for Field Investigation – N/A**
- 35.30 Drilling Access Permits – N/A**

- 35.31 Property Clearances – N/A**
- 35.32 Collection of Corrosion Samples – N/A**
- 35.33 Coordination of Field Work – N/A**
- 35.34 Soil and Rock Classification – Structures – N/A**
- 35.35 Tabulation of Laboratory Data – N/A**
- 35.36 Estimate Design Groundwater Level for Structures – N/A**
- 35.37 Selection of Foundation Alternatives (BDR) – N/A**
- 35.38 Detailed Analysis of Selected Foundation Alternate(s) – N/A**
- 35.39 Bridge Construction and Testing Recommendations – N/A**
- 35.40 Lateral Load Analysis (Optional) – N/A**
- 35.41 Walls – N/A**
- 35.42 Sheet Pile Wall Analysis (Optional) – N/A**
- 35.43 Design Soil Parameters for Signs, Signals, High Mast Lights, and Strain Poles and Geotechnical Recommendations – N/A**
- 35.44 Box Culvert Analysis – N/A**
- 35.45 Preliminary Report - BDR – N/A**
- 35.46 Final Report - Bridge and Associated Walls – N/A**
- 35.47 Final Reports - Signs, Signals, Box Culvert, Walls, and High Mast Lights – N/A**
- 35.48 SPT Boring Drafting – N/A**
- 35.49 Other Geotechnical – N/A**
- 35.50 Technical Special Provisions and Modified Special Provisions – N/A**
- 35.51 Field Reviews – N/A**
- 35.52 Technical Meetings – N/A**
- 35.53 Quality Assurance/Quality Control – N/A**
- 35.54 Supervision – N/A**
- 35.55 Coordination – N/A**
- 36 3D MODELING – N/A**
- 37 PROJECT REQUIREMENTS**

37.1 Liaison Office - N/A**37.2 Key Personnel**

The CONSULTANT's work shall be performed and directed by the key personnel identified in the proposal presentations by the CONSULTANT. Any changes in the indicated personnel shall be subject to review and approval by TOWN.

37.3 Progress Reporting

The CONSULTANT shall meet with the TOWN as required and shall provide a written monthly progress report with approved schedule, schedule status, and payout curve or by using the earned value method that describe the work performed on each task. The report will include assessing project risk through monthly documentation of identifying and updating the risk category and approach for monitoring those tasks. Invoices shall be submitted after the TOWN approves the monthly progress report and the payout curve or with earned value analysis. The Project Manager will make judgment on whether work of sufficient quality and quantity has been accomplished by comparing the reported percent complete against actual work accomplished.

37.4 Correspondence

Copies of all written correspondence between the CONSULTANT and any party pertaining specifically to this contract shall be provided to the TOWN for their records within one (1) week of the receipt or mailing of said correspondence.

37.5 Professional Endorsement

The CONSULTANT shall have a Licensed Professional Engineer in the State of Florida sign and seal all reports, documents, technical special provisions, and plans as required by TOWN standards.

37.6 Computer Automation

The project will be developed utilizing Computer Aided Drafting and Design (CADD) systems. FDOT makes available software to help assure quality and conformance with policy and procedures regarding CADD. It is the responsibility of the CONSULTANT to meet the requirements in FDOT's CADD Manual. The CONSULTANT shall submit final documents and files as described therein.

37.7 Coordination with Other Consultants

The CONSULTANT is to coordinate his work with any and all adjacent and integral consultants so as to effect complete and homogenous plans and specifications for the project(s) described herein.

37.8 Optional Services - N/A**38 INVOICING LIMITS**

Payment for the work accomplished shall be in accordance with Method of Compensation of this contract. Invoices shall be submitted to the TOWN, in a format prescribed by the TOWN. The TOWN Project Manager and the CONSULTANT shall monitor the cumulative invoiced billings to ensure the reasonableness of the billings compared to the project schedule and the work accomplished and accepted by the TOWN.

The CONSULTANT shall provide a list of key events and the associated total percentage of work considered to be complete at each event. This list shall be used to control invoicing. Payments will not be made that exceed the percentage of work for any event until those events have actually occurred and the results are acceptable to the TOWN.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number: PW-19.3
FAP Number: N/A

Date: 5/16/2024
Project Name: Indian Rocks Road Reconstruction (Phase III) - Design Supplemental Agreement
Name of Consultant: RS&H, Inc.

WORK ACTIVITY	Hours from "Summary" sheet	EMPLOYEE CLASSIFICATION																	TOTAL STAFF HOURS		ON CADD
	Firm Total	Project Officer	Project Manager	Senior Engineer	Design Engineer	Engineering Technician	0	0	Clerical									RANGE	PERCENT		
		Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours				
3. Project Common and Project General Tasks	48	0	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	53		
4. Roadway Analysis	64	1	0	37	26	0	0	0	0	0	0	0	0	0	0	0	0	64	70		
5. Roadway Plans	36	1	0	14	21	0	0	0	0	0	0	0	0	0	0	0	0	36	40		
23. Lighting Analysis	97	0	12	39	46	0	0	0	0	0	0	0	0	0	0	0	0	97	107		
24. Lighting Plans	53	0	6	21	25	0	0	0	0	0	0	0	0	0	0	0	0	52	57		
TOTALS	298	2	66	111	118	0	0	0	0	0	0	0	0	0	0	0	0	297	327		
Field Survey Estimate: 0 4-person crew days																		FIRM TOTAL		297	327
Notes:																					

- Notes:
- This worksheet provides the distribution of a firm's total staff hours for a project.
 - Percentages for staff hour distribution by classification are entered below in rows 64 to 98 of this sheet.
 - Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
 - Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number: PW-19.3
FAP Number: N/A

Date: 5/16/2024
Project Name: Indian Rocks Road Reconstruction (Phase III) - Design Supplemental Agreement
Name of Consultant: RS&H, Inc.

Staff Hour Distribution Percentages - Firm Total																			
	Hours from "Summary" sheet Firm Total	Project Officer	Project Manager	Senior Engineer	Design Engineer	Engineering Technician	0	0	Clerical										Total
3. Project Common and Project General Tasks	48	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
4. Roadway Analysis	64	2.0%	0.0%	58.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
5. Roadway Plans	36	2.0%	0.0%	38.0%	60.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
23. Lighting Analysis	97	0.0%	12.0%	40.0%	48.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
24. Lighting Plans	53	0.0%	12.0%	40.0%	48.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: Indian Rocks Road Reconstruction (Phase III) - Design Supplemental Agreement
County: Pinellas
FPN: PW-19.3
FAP No.: N/A

Consultant Name: RS&H, Inc.
Consultant No.: 1004-1091-12
Date: 5/16/2024
Estimator: Robert Garrigues

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Officer	Project Manager	Senior Engineer	Design Engineer	Engineering Technician			Clerical									SH	Salary	Average
		\$339.72	\$325.86	\$234.56	\$165.86	\$121.35			\$94.82									By Activity	Cost By Activity	Rate Per Task
3. Project Common and Project General Tasks	48	0	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	\$15,641.28	\$325.86
4. Roadway Analysis	64	1	0	37	26	0	0	0	0	0	0	0	0	0	0	0	0	64	\$13,330.80	\$208.29
5. Roadway Plans	36	1	0	14	21	0	0	0	0	0	0	0	0	0	0	0	0	36	\$7,106.62	\$197.41
23. Lighting Analysis	97	0	12	39	46	0	0	0	0	0	0	0	0	0	0	0	0	97	\$20,687.72	\$213.28
24. Lighting Plans	53	0	6	21	25	0	0	0	0	0	0	0	0	0	0	0	0	52	\$11,027	\$212.07
Total Staff Hours	298	2	66	111	118	0	0	0	0	0	0	0	0	0	0	0	0	297		
Total Staff Cost		\$679.44	\$21,506.76	\$26,036.16	\$19,571.48	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$67,793.84	\$228.26

Check = \$67,793.84

Survey Field Days by Subconsultant
4 - Person Crew:

- Notes:
1. This sheet to be used by Prime Consultant to calculate the Grand Total fee.
 2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

SALARY RELATED COSTS:		\$67,793.84
OVERHEAD:	0.0000%	\$0.00
OPERATING MARGIN:	0.0000%	\$0.00
FCCM (Facilities Capital Cost Money):	0.0000%	\$0.00
EXPENSES:	0.0000%	\$0.00
Survey (Field - if by Prime)	4-person crew	
	0 days @	\$ - / day
SUBTOTAL ESTIMATED FEE:		\$67,793.84
Subconsultant: McKim		\$0.00
Subconsultant: Tierra		\$0.00
Subconsultant: Janus		\$0.00
SUBTOTAL ESTIMATED FEE:		\$67,793.84
Permitting Fee		\$250.00
SUBTOTAL ESTIMATED FEE:		\$68,043.84
Optional Services	Contamination Field and Test Units	\$0.00
GRAND TOTAL ESTIMATED FEE:		\$68,043.84

RS&H Approved by (Signature): _____

RS&H Approved By (Printed): _____

Date: _____

Hillsborough County Approved by (Signature): _____

Hillsborough County Approved By (Printed): _____

Date: _____

Project Activity 3: General Tasks

Estimator: Vincent Shine

Indian Rocks Road Reconstruction (Phase III) - Design Supplemental Agreement

PW-19.3

Representing	Print Name	Signature / Date
Town of Belleair		
Consultant Name: RS&H		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3a.1	Public Involvement					
3a.1.1	Community Awareness Plan	LS	1	0	0	
3a.1.2	Notifications	LS	1	0	0	
3.1.3	Prepare Mailing Lists	LS	1	0	0	
3.1.4	Median Modification Letters	LS	1	0	0	
3.1.5	Driveway Modification Letters	LS	1	0	0	
3.1.6	Newsletters	LS	1	0	0	
3.1.7	Renderings and Fly Throughs	LS	1	0	0	
3.1.8	PowerPoint Presentation	LS	1	0	0	
3.1.9	Public Meeting Preparations	LS	1	0	0	
3.1.10	Public Meeting Attendance/Followup	LS	1	0	0	
3.1.11	Other Agency Meetings	LS	1	0	0	
3.1.12	Web Site	LS	0	0	0	
3.1 Public Involvement Subtotal					0	

Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.2	Joint Project Agreements	EA	0	0	0	
3.3	Specifications Package Preparation	LS	0	0	0	
3.4	Contract Maintenance and EDMS	LS	1	36	36	Based on 12 additional months of project maintenance.
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	
3.6	Prime Consultant Project Manager Meetings	LS	1	0	12	See listing below
3.7	Plans Update	LS	1	0	0	
3.8	Post Design Services	LS	1	0	0	
3.9	Digital Delivery	LS	1	0	0	
3.10	Risk Assessment Workshop	LS	1	0	0	
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	
3.13	Other Project General Tasks	LS	1	0	0	
3. Project Common and Project General Tasks Total					48	

Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.6 - List of Project Manager Meetings		Units	No of Units	Hours/ Unit	Total Hours	Comments
	Roadway Analysis	EA	1	0	0	
	Drainage	EA	0	0	0	
	Utilities	EA	0	0	0	
	Environmental	EA	1	0	0	
	Structures	EA	0	0	0	
	Signing & Pavement Marking	EA	0	0	0	
	Signalization	EA	1	0	0	
	Lighting	EA	1	4	4	
	Landscape Architecture	EA	0	0	0	
	Survey	EA	0	0	0	
	Photogrammetry	EA	0	0	0	
	ROW & Mapping	EA	0	0	0	
	Terrestrial Mobile LiDAR	EA	0	0	0	
	Architecture	EA	0	0	0	
	Noise Barriers	EA	0	0	0	
	ITS Analysis	EA	0	0	0	
	Geotechnical	EA	0	0	0	
	Progress Meetings	EA	4	2	8	Phone calls and meetings with Town and GEC representatives
	Phase Reviews	EA	1	0	0	
	Field Reviews	EA	1	0	0	
Total Project Manager Meetings			10		12	Total PM Meeting Hours carries to Task 3.6 above

Notes:

1. If the hours per meeting vary in length (hours) enter the average in the hour/unit column.
2. Do not double count agency meetings between permitting agencies.
3. Project manager meetings are calculated in each discipline sheet and brought forward to Column D, except for Photogrammetry.

Project Activity 4: Roadway Analysis

Estimator:

Indian Rocks Road Reconstruction (Phase III) - Design Supplemental Agreement

PW-19.3

Representing	Print Name	Signature / Date
Town of Belleair		
Consultant Name: RS&H		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	0	0	
4.2	Pavement Type Selection Report	LS	1	0	0	
4.3	Pavement Design Package	LS	1	0	0	
4.4	Cross-Slope Correction	LS	1	0	0	
4.5	Horizontal /Vertical Master Design Files	LS	1	0	0	
4.6	Access Management	LS	1	0	0	
4.7	Roundabout Evaluation	LS	1	0	0	
4.8	Roundabout Final Design Analysis	LS	1	0	0	
4.9	Cross Section Design Files	LS	1	0	0	
4.10	Traffic Control Analysis	LS	1	20	20	TTCP concept development to include a design for closing IRR and utilizing detours. Anticipate 2 phases (northern closure & southern closure).
4.11	Master TCP Design Files	LS	1	24	24	Master file development for detour and detail drawings.
4.12	Selective Clearing and Grubbing	LS	1	0	0	
4.13	Tree Disposition Plan	LS	1	0	0	
4.14	Design Exceptions	LS	1	0	0	
4.15	Design Documentation	LS	1	0	0	
4.16	Quantities	LS	1	0	0	
4.17	Cost Estimate	LS	1	0	0	
4.18	Technical Special Provisions	LS	1	0	0	
4.19	Other Roadway Analyses	LS	1	0	0	
Roadway Analysis Technical Subtotal					44	

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.20	Field Reviews	LS	1	4	4	1 Field Review * (2 hours x 2 staff)
4.21	Monitor Existing Structures	LS	1	0	0	NA
4.22	Technical Meetings	LS	1	10	10	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	5%	2	
4.24	Independent Peer Review	LS	%	0%	0	NA
4.25	Supervision	LS	%	5%	2	
Roadway Analysis Nontechnical Subtotal					18	
4.26	Coordination	LS	%	3%	2	
4. Roadway Analysis Total					64	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Typical Section	EA	0	0	0		0
Pavement	EA	0	0	0		0
Access Management	EA	0	0	0		0
15% Line and Grade	EA	0	0	0		0
Driveways	EA	0	0	0		0
Local Governments (cities, counties, MPO)	EA	0	0	0		0
Work Zone Traffic Control	EA	2	1	2		0
60% and 90% Technical / Comment Review Meetings	EA	0	0	0		0
Other Meetings	EA	0	0	0		0
Subtotal Technical Meetings				2	Subtotal Project Manager Meetings	0
Progress Meetings (if required by County)	EA	4	2	8	PM attendance at Progress Meetings is manually entered on General Task 3	--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3	--
Total Meetings				10	Total Project Manager Meetings (carries to Tab 3)	0

Carries to 4.17

Carries to Tab 3

Project Activity 5: Roadway Plans

Estimator:

Indian Rocks Road Reconstruction (Phase III) - Design Supplemental Agreement

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Representing		Print Name	Signature / Date
Town of Belleair			
Consultant Name: RS&H			

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	0	0	0	
5.2	Summary of Pay Items Including Quantity Input		Sheet	0	0	0	
5.3	Typical Section Sheets		Sheet	0	0	0	
5.3.1	Typical Sections		EA	0	0	0	
5.3.2	Typical Section Details		EA	0	0	0	
5.4	General Notes/Pay Item Notes		Sheet	0	0	0	
5.5	Summary of Quantities Sheets		Sheet	0	0	0	
5.6	Project Layout		Sheet	0	0	0	
5.7	Plan/Profile Sheet		Sheet	0	0	0	
5.8	Profile Sheet		Sheet	0	0	0	
5.9	Plan Sheet		Sheet	0	0	0	
5.10	Special Profile		Sheet	0	0	0	
5.11	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	
5.12	Interchange Layout Sheet		Sheet	0	0	0	
5.13	Ramp Terminal Details (Plan View)		Sheet	0	0	0	
5.14	Intersection Layout Details		Sheet	0	0	0	
5.15	Special Details		EA	0	0	0	

Project Activity 5: Roadway Plans

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.16	Cross-Section Pattern Sheet(s)		Sheet	0	0	0	
5.17	Roadway Soil Survey Sheet(s)		Sheet	0	0	0	
5.18	Cross Sections		EA	0	0	0	
5.19	Temporary Traffic Control Plan Sheets		Sheet	0	0	0	
5.20	Temporary Traffic Control Cross Section Sheets		EA	0	0	0	
5.21	Temporary Traffic Control Detail Sheets		Sheet	4	8	32	TTCP General Notes and Phasing notes (1 Sheet). 2 temporary detour sheets (1 to close northern half of IRR and 1 to close southern half of IRR). 1 detail sheet showing Eastleigh continuous access.
5.22	Utility Adjustment Sheets		Sheet	0	0	0	
5.23	Selective Clearing and Grubbing Sheet(s)		Sheet	0	0	0	
5.23.1	Selective Clearing and Grubbing		Sheet	0	0	0	
5.23.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	
5.24	Tree Disposition Sheet(s)						
5.24.1	Tree Disposition Plan Sheet(s)		Sheet	0	0	0	
5.24.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	
5.25	Project Network Control Sheet(s)		Sheet	0	0	0	
5.26	Environmental Detail Sheets		Sheet	0	0	0	
5.27	Utility Verification Sheet(s) (SUE Data)		Sheet	0	0	0	
Roadway Plans Technical Subtotal						32	
5.28	Quality Assurance/Quality Control		LS	%	5%	2	
5.29	Supervision		LS	%	5%	2	
5. Roadway Plans Total						36	

Project Activity 23: Lighting Analysis

Estimator: Chowdhury Haider, PE, PTOE

Indian Rocks Road Reconstruction (Phase III) - Design Supplemental Agreement

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Representing	Print Name	Signature / Date
Town of Belleair		
RS&H		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
23.1	Lighting Justification Report	LS	0	0	0	N/A
23.2	Lighting Design Analysis Report	LS	1	20	20	To determine spacing. Using AGI 32 Software. We will check up to three cross-sections to determine luminaire spacing
23.3	Aeronautical Evaluation	LS	0	0	0	N/A
23.4	Voltage Drop Calculations	EA	1	8	8	N/A
23.5	FDEP Coordination and Report	LS	0	0	0	N/A
23.6	Reference and Master Design Files	LS	1	40	40	Set up reference files and master design files based on length of roadway.
23.7	Temporary Lighting	LS	0	0	0	N/A
23.8	Design Documentation	LS	0	0	0	N/A
23.9	Quantities	LS	1	4	4	
23.10	Cost Estimate	LS	1	6	6	Engineer's Estimate - First estimate 4 hrs + 1 updates at 2 hrs each = 6 hrs
23.11	Technical Special Provisions	LS	0	0	0	
23.12	Other Lighting Analysis	LS	0	0	0	
Lighting Analysis Technical Subtotal					78	
23.13	Field Reviews	LS	1	8	8	1 trip*8 hours/person/trip
23.14	Technical Meetings	LS	1	0	0	N/A
23.15	Quality Assurance/Quality Control	LS	%	5%	4	
23.16	Independent Peer Review	LS	%	0%	0	N/A
23.17	Supervision	LS	%	5%	4	
Lighting Analysis Nontechnical Subtotal					16	
23.18	Coordination	LS	%	3%	3	
23. Lighting Analysis Total					97	

Project Activity 23: Lighting Analysis

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
FDOT Lighting Design	EA	0	0	0		0
FDOT Traffic Design	EA	0	0	0		0
Power Company (service point coordination)	EA	1	12	12	yes	0
Maintaining Agency (cities, counties)	EA	1	4	4		0
Airport authority	EA	0	0	0		0
FDEP Lighting (coast areas)	EA	0	0	0		0
Other Meetings	EA	2	4	8		0
Subtotal Technical Meetings				24	Subtotal Project Manager Meetings	0
Progress Meetings (if required by FDOT)	EA	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>	--
Phase Review Meetings	EA	0	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>	--
Total Meetings				24	Total Project Manager Meetings (carries to Tab 3)	0

Carries to 23.14

Carries to Tab 3

24. Lighting Plans

Estimator: Chowdhury Haider, PE, PTOE

Indian Rocks Road Reconstruction (Phase III) - Design Supplemental Agreement

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Representing	Print Name	Signature / Date
Town of Belleair		
RS&H		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
24.1	Key Sheet		Sheet	0	0	0	0	
24.2	Summary of Pay Items Including Designer Interface (TRNS•Port) Input		Sheet	1	4	1	4	
24.3	Tabulation of Quantities		Sheet	0	0	0	0	
24.4	General Notes/Pay Item Notes		Sheet	1	1	1	1	
24.5	Pole Data, Legend and Criteria		Sheet	1	8	1	8	
24.6	Service Point Details		Sheet	1	8	1	8	
24.7	Project Layout		Sheet	0	0	0	0	
24.8	Plan Sheet		Sheet	7	4	7	28	
24.9	Special Details		Sheet	0	0	0	0	
24.10	Temporary Lighting Data and Details		Sheet	0	0	0	0	
24.11	Traffic Control Plan Sheets		Sheet	0	0	0	0	
24.12	Interim Standards		LS	0	0		0	
Lighting Plans Technical Subtotal						11	49	
24.13	Quality Assurance/Quality Control		LS	%	5%		2	
24.14	Supervision		LS	%	5%		2	
24. Lighting Plans Total						11	53	