

PROFESSIONAL SERVICE AGREEMENT  
#2022-041  
AMENDMENT #4

This AMENDMENT #4 is made and entered into, effective as of the date last executed, by and between, Polk County (the “County”), a political subdivision of the State of Florida, situated at 330 W. Church Street, Bartow, Florida 33830, and Kimley-Horn and Associates, Inc. (the “Consultant”), a North Carolina corporation, located at 421 Fayetteville Street, Suite 600, Raleigh, North Carolina 27601, whose Federal Employer Identification number is 56-0885615.

WITNESSETH:

WHEREAS, the County and Consultant entered into Professional Service Agreement 2022-041 dated June 7, 2022 (the “Agreement”), for the purpose of providing professional services in connection with the construction of the Thompson Nursery Road Extension project in four segments with the option to add a fifth segment (Phase 2). Services include engineering design, environmental evaluations, permitting, construction plan development, right-of-way acquisition support, and bid documents/bidding assistance for the project; and

WHEREAS, Amendment 1 was approved by the Board on August 8, 2023, which authorized a scope modification to add Phase 2 to the project. Phase 2 includes a PD&E study for a new four-lane, divided roadway resulting in up to 3 conceptual alignments and completion of design, permitting right-of-way acquisition and bidding support for the chosen alignment; and

WHEREAS, on May 28, 2024, the County entered into a Joint Project Agreement with the City of Eagle Lake for the Thompson Nursery Road Extension project for the design, permitting the relocation of the city utilities in conjunction with the County’s Project; and

WHEREAS, Amendment 2 was approved by the Board on August 20, 2024, which authorized the Consultant to provide design services for the water main relocations. The services included design, bidding assistance, construction phase services, and water main utility investigation services. As a result, an additional scope of services, compensation and time was needed; and

WHEREAS, Amendment 3 was approved by the Board on January 20, 2026, which authorized the Consultant to provide design services for Phase 1 - Segment 2. The services included engineering design, environmental evaluations, permitting, construction plan development, right-of-way acquisition support, and bidding assistance. As a result, an additional scope of services, compensation and time was needed; and

WHEREAS, the Consultant has performed the design services for Phase 1 – Segment 2. The County now wishes to authorize the Consultant to provide the design services for Phase 2. The services include engineering design, environmental evaluations, permitting, construction plan development, right-of-way acquisition support, and bidding assistance. As a result, an additional scope of services, compensation and time is needed ; and

WHEREAS, pursuant to Section 16.0 of the Agreement, the County and the Consultant mutually agree to amend the Agreement as set forth below.

NOW, THEREFORE, the County and the Consultant, hereby agree as follows:

1. The recitals stated above are true and correct and are fully incorporated herein.

2. The Agreement is hereby amended to modify Exhibit "A-iii" Scope of Services and Compensation of the Agreement to include the additional services needed, which are more fully set forth and described in Attachment "A" of this Amendment, attached hereto and fully incorporated herein.

3. The Agreement will remain in effect through the completion of construction, unless sooner terminated in accordance with its terms.

4. The cost of the additional design services, which is more fully set forth and described in Attachment "A" to this Amendment 4, shall be a not-to-exceed amount of \$3,453,821.68. Accordingly, the total Agreement amount shall be increased from the current not-to-exceed amount of \$10,374,920.95 to the new not-to-exceed amount of \$13,828,742.63.

5. The Agreement, as amended by this Amendment 4, continues in full force and effect.

**THE REMAINDER OF PAGE LEFT INTENTIONALLY BLANK**

IN WITNESS WHEREOF, the parties hereto have executed this Amendment 4 as of the Effective Date.

**ATTEST:**

STACY M. BUTTERFIELD  
CLERK OF THE BOARD

**Polk County**, a political subdivision  
of the State of Florida

By: \_\_\_\_\_  
Deputy Clerk

By: \_\_\_\_\_  
Martha Santiago, Ed.D., Chair  
Board of County Commissioners

Date Signed By County \_\_\_\_\_

Reviewed as to form and legal sufficiency:

Norm Miller                      5/27/20  
County Attorney's Office                      Date

Kimley-Horn and Associates, Inc.  
a North Carolina corporation



By: [Signature]  
Hao Chau  
PRINT NAME

Vice President  
TITLE

Date: 06/02/2026

EXHIBIT "A"  
to 2022-041, AMENDMENT #4

SCOPE OF SERVICES

FOR

THOMPSON NURSERY ROAD EXTENSION – PHASE 2

POLK COUNTY

Prepared by:

Kimley-Horn and Associates, Inc.

March 26, 2026

I.	Table of Contents	
I.	DESCRIPTION.....	5
II.	OBJECTIVE .....	5
III.	TASK 1 – PHASE II DESIGN SERVICES.....	6
1.	Survey (By COUNTY):.....	6
2.	Right of Way Maps (By COUNTY).....	7
1.	Right of Way Maps.....	7
2.	Legal Description.....	8
3.	Geotechnical Exploration (Imperial Testing and Engineering) .....	8
4.	Environmental Analysis and Permitting.....	9
1.	Listed Species Survey .....	9
2.	Wetland Delineation and Environmental Site Characterization .....	9
3.	State Environmental Resource Permit Application.....	10
5.	Cultural Resources (ACI).....	10
6.	Drainage Analysis .....	11
1.	Base Clearance Analysis .....	11
2.	Hydroplaning Analysis.....	11
3.	Existing Permit Analysis .....	12
4.	Utility Conflict Matrix (for drainage structures) .....	12
5.	Noise Barrier Drainage Analysis.....	12
6.	Temporary Drainage Analysis .....	12
7.	Pond Siting Analysis and Report .....	12
8.	Analysis of Pipe Video Inspection Report .....	12
9.	Bridge Hydraulic Report.....	12
10.	Design of Cross Drains.....	12
11.	Design of Ditches and Side Drains.....	12
12.	Design of Stormwater Management Facility .....	12
13.	Design of Floodplain Compensation .....	13
14.	Design of Storm Drains .....	13
15.	Optional Culvert Material .....	13
16.	Design of Trench Drains .....	13
17.	French Drain Systems.....	13

18.	Design of French Drain Systems: N/A .....	13
19.	Evaluation of Existing French Drain Systems: N/A.....	13
20.	Design of Drainage Wells .....	13
21.	Erosion Control Concept .....	13
22.	Other Drainage Tasks .....	13
23.	Drainage Design Documentation Report .....	14
24.	Drainage Quantities for EQ Report .....	14
25.	Cost Estimate .....	14
26.	Technical or Modified Special Provisions.....	14
27.	Quality Assurance/Quality Control .....	14
28.	Supervision.....	14
29.	Drainage Meetings .....	14
30.	Field Reviews.....	14
31.	Coordination .....	14
7.	Drainage Plans.....	15
8.	Design Traffic Analysis – N/A .....	15
9.	Roadway Design Analysis.....	15
1.	Typical Section .....	15
2.	Pavement Design .....	15
3.	Traffic Control Plans.....	15
4.	Roadway Design Plans .....	16
5.	Submittals .....	17
6.	Quantities.....	17
10.	Signalization Design and Plans .....	17
11.	Signing and Pavement Markings.....	18
12.	Lighting Analysis and Plans .....	19
13.	Structural Design and Plans .....	20
1.	Mast Arm Design.....	20
2.	Bridge Design – Peace Creek Crossing .....	20
14.	Subsurface Utility Exploration (SUE) (ECHO) .....	21
15.	Utility Coordination (ECHO) .....	21
16.	Public Involvement – N/A .....	22
17.	Project Administration .....	22

18. Right of Way Acquisition Assistance ..... 22

19. Bid Document Assistance..... 22

20. Post Design Services..... 23

IV. PROVISIONS FOR WORK..... 24

    1. Governing Regulations..... 24

V. COMPENSATION ..... 24

SCOPE OF SERVICES  
FOR  
THOMPSON NURSERY ROAD EXTENSION – PHASE II  
POLK COUNTY

I. DESCRIPTION

Kimley-Horn and Associates Inc. (CONSULTANT) will provide professional services to Polk County Roads and Drainage Division (COUNTY) to prepare Contract Documents for the construction of the Thompson Nursery Road Extension (PROJECT) from the terminus of Thompson Nursery Road Extension Segment 4 (the intersection of Thompson Nursery Road and W. Lake Ruby Dr.) to the US 27. The Total project length is approximately 2.9 miles. A Preliminary Engineering Report was prepared and submitted to Polk County in July 2025 and a recommended alternative was approved by the Board of County Commissioners.

II. OBJECTIVE

The objective of this document is to describe the scope of work and the responsibilities of the CONSULTANT and the COUNTY for the completion of necessary engineering design, environmental evaluations, permitting, construction plan development, right-of-way acquisition support, and bid documents/bidding assistance for the PROJECT. The following is the understanding and purpose of the PROJECT

- The limits of the PROJECT are from the intersection of Thompson Nursery Road (TNR) and W. Lake Ruby Dr and the intersection of Thompson Nursery Road and US 27.
- The existing two-lane Thompson Nursery Road will be widened to a 4-lane divided typical section. Based on the Preliminary Engineering Report, the widening of the road will take place to the north of the current alignment from W Lake Ruby to approximately 1,500 feet east of Lake Ashton Blvd, and then will transition to widening centered around the existing alignment of TNR for the remainder of the project.
- A Preliminary Engineering Report dated April 2025, performed by Kimley-Horn and Associates Inc. recommended a roadway alternative that was approved by the Polk County Board of County Commissioners.
- The PROJECT will include roadway, structures, drainage, signing and pavement markings, lighting, signalization, temporary traffic control, utility adjustment, public involvement, planning, cultural resources, and geotechnical services.
- The PROJECT will require coordination and/or permitting with the Southwest Florida Water Management District (SWFWMD), US Fish and Wildlife Services (USFWS), the US Army Corps of Engineers (USACE), City of Winter Haven, City of Lake Wales, and Polk County.
- The PROJECT will require wetland delineation, permitting, and mitigation for impacts to existing wetlands.
- The PROJECT will require the acquisition of private property for roadway right-of-way, drainage retention pond sites, floodplain compensation and wetland mitigation areas.

- The roadway typical section is a 4-lane divided typical section with a 22-foot median, 12-foot travel lanes, 4-foot bike lanes and 6 ft sidewalks.
- Design will include modifications to the following intersections: Rutledge Court (removal of eastbound right) Duck Down Lane (add eastbound left) Conservation Way (add right and left turns on eastbound and westbound approaches) Sergeant Mary Campbell Way (add eastbound left and remove westbound right) and US 27 ( add dual eastbound lefts and northbound lefts, extend eastbound left, close median openings)
- Signalized intersections are provided at Lake Ashton Boulevard, Conservation Way and US 27.
- Structural scope includes a bridge crossing the Peace Creek and signal designs associated with the signalized intersections
- Drainage design includes Flood plain compensation sites, stormwater ponds, a closed drainage system and permitting
- Lighting is proposed for the intersections only, no corridor lighting is included, based on the findings of the Lighting Justification Report dated May 2025.
- Support during the construction phase of the PROJECT is not included in this scope of services. A separate contract will be executed during the construction phase of the PROJECT for Engineer of Record support during construction.
- All topographic, control and right of way survey will be provided by the COUNTY
- Project Survey Datum shall be NGVD 29. (COUNTY has provided this information in the NGVD 88 Datum. Conversion equations will be utilized)
- All right of way maps, legal descriptions and parcel sketches, and title searches for right of way acquisition will be provided by the COUNTY.
- The CONSULTANT will enlist the services of ECHO UES, Inc. as a subconsultant to perform the subsurface utility exploration and utility coordination.
- The CONSULTANT will enlist the services of Imperial Testing and Engineering Inc. as a subconsultant to perform geotechnical testing and engineering for the improvements.
- The CONSULTANT will enlist the services of Archeological Consultants Inc., PA as a subconsultant for cultural resource management on the PROJECT

### III. TASK 1 – PHASE II DESIGN SERVICES

#### 1. **Survey (By COUNTY):**

The COUNTY will provide the required design survey information necessary to support the CONSULTANT’S activities. These surveys shall include, but not be limited to, 3D topographic surveys of the roadway alignment and adjacent areas extending 10 feet beyond the existing and/or proposed right-of-way including all above ground and visible improvements. The survey shall also include stormwater ponds, wetland jurisdictional limits, environmentally sensitive areas, flood plain compensation areas, or other areas where information is needed to support design and permitting of the project. The CONSULTANT will coordinate with the COUNTY’s Surveyor to assist with project specifications and requirements. The COUNTY will re-establish survey control for the contractor during construction if necessary.

## 2. Right of Way Maps (By COUNTY)

### 1. Right of Way Maps

The COUNTY shall be responsible for the preparation of preliminary and final Right-of-Way Maps for the full length of the project. Complete Right-of-Way Key Maps (1" = 400') and Detail Maps (1" = 40') shall be prepared in accordance with the Minimum Technical Standards as set forth by the Florida Board of Land Surveyors, pursuant to Section 472.027, Florida Statutes. Right-of-Way Detail Maps shall be line drawings (not on aerial photo base) prepared to COUNTY size and format. The COUNTY shall identify areas that require Title Searches. The COUNTY will provide the title searches.

The COUNTY will prepare Key Maps and Detail Maps for review for general conformance to the plans at the following stages of completion with data as specified.

#### 75% Maps

- Project alignment with station ties and curve data.
- All existing rights of way and easements, including maintained rights of way.
- All pertinent land lines, which include section and quarter section lines, and quarter-quarter section lines where applicable, tied to the survey base line and identified as to section, township and range.
- All subdivision boundaries and blocks tied to the survey base line. All blocks, lots and streets within subdivisions that are affected by right-of-way acquisition and/or along the project corridor shall be shown.
- Subdivision names and limits with recording information.
- Cross road alignments.
- Copies of subdivision plats and copies of field survey notes showing alignment, land line ties and improvements (topography).
- Proposed right-of-way and easement lines and controlling base lines with dimensions.
- Property lines.
- Improvements (topography).
- Dimensions for takings and remainders.
- Completed tabulation sheet.
- Limits of construction.

## **100% Maps**

Completed Right-of-Way Maps and Detail Maps and electronic files in AutoCad® format.

## 2. Legal Description

Legal land descriptions and parcel sketches shall be prepared by the COUNTY along with three copies of each legal description and sketch signed and sealed by the Registered Land Surveyor in responsible charge.

## 3. **Geotechnical Exploration (Imperial Testing and Engineering)**

- Review and utilize as appropriate previously collected geotechnical data.
- Review available published soils information.
- Perform site reconnaissance and limited soil boring fieldwork services for confirmation of previously collected data and/or additional soil boring fieldwork for the proposed improvements, as needed, if any changes to the project alignment or locations from previous design.
- For new roadway areas, perform 5-foot soil boring at 100 foot intervals, and measure observed groundwater elevations and estimate seasonal high groundwater level at each soil boring location. Alternate borings between eastbound and westbound lanes. Every 5<sup>th</sup> boring shall be 15ft deep.
- Obtain LBR / Resilient Modulus to be used for Flexible Pavement Design calculations. 6 LBR's are included in this scope.
- Obtain 5 pavement cores for the following side streets:
  - Traditions blvd: 1 core in asphalt section
  - Lake Ashton Blvd: 1 core in asphalt section
  - US 27 intersection: 3 Cores (1 @ North leg, 1 )@ South Leg, and 1 @ east leg of intersection.
- For stormwater areas, where previously collected geotechnical data can be used, perform confirmation 15-foot soil boring at each stormwater area, and measure observed groundwater elevations and estimate seasonal high groundwater level at each soil boring location. Only 1 location of existing stormwater pond.
- For new stormwater areas, perform 15-foot soil boring for every ½-acre of new stormwater area (minimum 2 soil borings for each stormwater area), and measure observed groundwater elevations and estimate seasonal high groundwater level at each soil boring location. There are six new stormwater pond areas and four flood plain compensation areas (FPC)
- Perform muck probing at 100 foot intervals within wetland areas. Perform probes on both eastbound and west bound lanes.
- Perform Standard Penetration Test (SPT) boring for new signal structures – 10 total signal foundations
- Perform SPT borings for bridge crossings
  - Peace Creek Crossing – assume single span bridge

- Visually examine all recovered soil samples in the laboratory. Perform laboratory tests on selected representative samples to aid in classification and to determine selected soil properties. Classification of soils shall be based on the AASHTO Classification System for the roadway and ponds and the Unified Soil Classification System (USCS) for structures
- Prepare Geotechnical Engineering Report that includes: a general assessment of area geology based on experience, study of geological literature and boring information; and a summary of the reviewed data and results of the subsurface exploration, including the recommendations and data on which they are based to assist with roadway embankment and pond construction or foundation design of structures. This shall be presented in a written report under the supervision of a Professional Engineer.

#### **4. Environmental Analysis and Permitting**

##### **1. Listed Species Survey**

The CONSULTANT shall conduct a general wildlife survey, a species-specific survey for the Florida bonneted bat in accordance with the 2024 Florida Bonneted Bat Consultation Guidelines – Acoustic Survey Methods, and species-specific survey for the gopher tortoise in accordance with the 2023 Gopher Tortoise Permitting Guidelines.

##### **2. Wetland Delineation and Environmental Site Characterization**

The CONSULTANT shall be responsible for, but not limited to, the following activities:

- Collect data and information to determine the landward extent of wetlands and other surface waters as detailed in Rule Chapter 62-340, F.A.C., as ratified in Section 373.4211, F.S.; United States Army Corps of Engineers (USACE) Wetland Delineation Manual (Technical Report Y-87-1); Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (ERDC/EL TR-10-20).
- Set seasonal high-water levels in adjacent wetlands with biological indicators.
- Prepare aerial maps showing the jurisdictional boundaries of wetlands and other surface waters. Aerial maps shall be reproducible, of a scale of 1" = 400' or more detailed and with recent aerial imagery. The maps shall show the jurisdictional boundaries of each agency. Photocopies of aerials are not acceptable. When necessary, a wetland specific survey will be prepared by a registered surveyor and mapper. All surveyed jurisdictional boundaries are to be tied to the project's baseline of survey.
- Prepare a written assessment of the current condition and functional value of the wetlands and other surface waters using the Uniform Mitigation Assessment Method. Prepare data in tabular form which includes the ID

number for each wetland (and other surface water, if necessary) impacted, size of wetland to be impacted, type of impact, and identify any wetland (by ID number and size) within the project limits that will not be impacted by the project.

- Prepare and submit SWFWMD Environmental Resource Permit (ERP) application including Sections A, C, and E, an environmental narrative including the results of the species surveys listed above, and a drainage report. Prepare and submit wetland impact plans and a wetland mitigation plan.
- Prepare and submit USACE 404 Standard Permit including ENG 6249 Preliminary Jurisdictional Determination, ENG 4345 Application for Department of the Army Permit, dredge and fill sketches, and an environmental narrative including the results of the species surveys listed above.

3. State Environmental Resource Permit Application

CONSULTANT shall:

1. Schedule and attend one (1) pre-application meeting with the Southwest Florida Water Management District (SWFWMD).
2. Schedule and attend one (1) pre-application meeting with the U.S. Army Corps of Engineers (USACE) to discuss the project and verify the extent of permitting required.
3. Based upon the pre-application meetings, prepare and submit the following permit applications:
  - a. SWFWMD Environmental Resource Permit
  - b. USACE 404 Standard Permit
4. Submit for a jurisdictional determination as defined by the rules or regulations of each permitting agency processing a permit application for the project. The CONSULTANT will respond to three (3) RAI's per agency application.

5. **Cultural Resources (ACI)**

- The Consultant shall analyze the impacts to all cultural resources by reviewing the project scope and prepare a Cultural Resource Assessment Survey (CRAS) Report for Phase II which will include the recommended alternative (Alt 1) and preferred pond sites (5 preferred ponds). Background research will be conducted prior to going into the field to identify previously recorded resources and the potential for newly identified resources within the project Area of Potential Effects (APE).
- The archaeological survey will include a visual reconnaissance followed by subsurface testing with the appropriate number of test pits being excavated. If any archaeological sites are located, a Florida Master Site File (FMSF) form will be prepared. In addition, the Consultant will identify any historic resources within the project APE, both previously recorded and newly identified. A FMSF form shall be prepared for all newly identified and updated

previously recorded that have not been evaluated by the State Historic Preservation Officer (SHPO) or that have been substantially altered since they were recorded. Enough data shall be collected to document the significance of each in terms of eligibility for listing in the National Register of Historic Places (NRHP). The CRAS shall be prepared with appropriate documentation detailing the results of the survey and final assessments of resource significance. If any NRHP-eligible or NRHP-listed properties are identified within the APE, then additional documents may be required, such as a Section 106 Case Study, to document the proposed alignments and effects on the historic resource(s).

- All work shall be done in compliance with the National Historic Preservation Act of 1966 (Public Law 89-665, as amended) and the implementing regulations (36 CFR 800) as well as with the provisions contained in Chapters 267 and 373 Florida Statutes (FS) and will meet the specifications set forth in Chapter 1A-46, Florida Administrative Code (FAC). The CRAS will be prepared in accordance with Part 2, Chapter 8 (“Archaeological and Historical Resources”) of the Florida Department of Transportation’s Project Development and Environment (PD&E) Manual. All work shall be conducted by a professional who meets the Secretary of the Interior’s Professional Qualification Standards (48 FR 44716) for archaeology, history, architecture, architectural history, or historic architecture. Concurrence with the findings of the report shall be obtained from Florida SHPO.

## 6. **Drainage Analysis**

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

The CONSULTANT shall be responsible for designing a drainage and stormwater management system. All design work shall comply with the requirements of the appropriate regulatory agencies and the FDOT Drainage Manual.

The CONSULTANT shall coordinate with the appropriate permitting agencies and the COUNTY staff. The work will include the engineering analyses for any or all of the following:

1. **Base Clearance Analysis**  
Analyze, determine, and document high water elevations per basin which will be used to set roadway profile grade and roadway materials. Determine surface water elevations at cross drains, floodplains, outfalls and adjacent stormwater ponds. Determine groundwater elevations at intervals between the above-mentioned surface waters. Document findings in a Base Clearance Report.
2. **Hydroplaning Analysis**  
Perform a hydroplaning analysis to assist in the determination of the appropriate roadway geometry for all necessary locations (both typical sections

and critical cross sections) as needed. See the FDOT Hydroplaning Guidance and FDOT Design Manual (FDM) Chapters 210 and 211 for more information.

3. Existing Permit Analysis  
Data gathering including desktop analysis of local, state, and federal Drainage permits.
4. Utility Conflict Matrix (for drainage structures)  
Populating and coordination of the utility conflict matrix for all drainage structures.
5. Noise Barrier Drainage Analysis  
N/A
6. Temporary Drainage Analysis  
Evaluate and address drainage to adequately drain the road and maintain existing offsite drainage during all construction phases. Provide documentation.
7. Pond Siting Analysis and Report  
Stormwater management memo to validate ponds for proposed stormwater and floodplain compensation sites with information from Geotechnical Report and Polk County right-of-way information.
8. Analysis of Pipe Video Inspection Report  
N/A
9. Bridge Hydraulic Report  
Calculate hydrology, hydraulics, deck drainage, scour, and appropriate counter measures. Prepare report and the information for the Bridge Hydraulics Recommendation Sheet.
10. Design of Cross Drains  
Analyze the hydraulic design and performance of cross drains. Check existing cross drains to determine if they are structurally sound and can be extended. Document the design as required. Determine and provide flood data as required.
11. Design of Ditches and Side Drains  
Design roadway conveyance and outfall ditches. This task includes capacity calculations, longitudinal grade adjustments, flow changes, additional adjustments for ditch convergences, selection of suitable channel lining, design of side drain pipes, and documentation. (Design of linear stormwater management facilities in separate task.)
12. Design of Stormwater Management Facility  
Offsite or Infield Pond: Design stormwater management facilities to meet

requirements for stormwater quality treatment, attenuation and aesthetics. Develop proposed pond layout (contributing drainage basin, shape, contours, slopes, volumes, tie-ins, aesthetics, etc.), perform routing, pollutant/nutrient loading calculations, recovery calculations, design the outlet control structure and buoyancy calculations for pond liners when necessary.

Roadside Treatment Swales and Linear Ponds: Design stormwater management facilities to meet requirements for stormwater quality treatment, attenuation and aesthetics. Develop proposed pond layout (contributing drainage basin, shape, contours, slopes, volumes, tie-ins, aesthetics, etc.), perform routing, pollutant/nutrient loading calculations, recovery calculations and design the outlet control structure.

13. Design of Floodplain Compensation

Determine floodplain encroachments, coordinate with regulatory agencies, and develop proposed compensation area layout (shape, contours, slopes, volumes, etc.). Document the design following the requirements of the regulatory agency.

14. Design of Storm Drains

Delineate contributing drainage areas, determine runoff, inlet locations, and spread. Calculate hydraulic losses (friction, utility conflict and, if necessary, minor losses). Determine design tailwater and, if necessary, outlet scour protection.

15. Optional Culvert Material

Determine acceptable options for pipe materials using the Culvert Service Life Estimator.

16. Design of Trench Drains

N/A

17. French Drain Systems

N/A

18. Design of French Drain Systems: N/A

19. Evaluation of Existing French Drain Systems: N/A

20. Design of Drainage Wells

N/A

21. Erosion Control Concept

Includes analysis and design of the Erosion Control Concept. Includes creating the design file.

22. Other Drainage Tasks

Includes all efforts for a drainage task not covered by an existing defined task.

23. Drainage Design Documentation Report  

Compile drainage design documentation into report format. Include documentation for all the drainage design tasks and associated meetings and decisions, except for stand-alone reports, such as the Pond Siting Analysis Report and Bridge Hydraulics Report.
24. Drainage Quantities for EQ Report  

N/A
25. Cost Estimate  

Prepare cost estimates for the drainage components, except bridges and earthwork for stormwater management and flood compensation sites.
26. Technical or Modified Special Provisions
27. Quality Assurance/Quality Control
28. Supervision
29. Drainage Meetings  

Meetings with DEPARTMENT staff, regulatory agencies, local governments such as meetings with District Drainage Engineer, the Water Management District, FDEP, etc.
30. Field Reviews
31. Coordination

## 7. Drainage Plans

The CONSULTANT shall prepare Drainage plan sheets, notes, and details. The plans shall include the following sheets necessary to convey the intent and scope of the project for the purposes of construction.

- Drainage Map
- Summary of Drainage Structures
- Optional Pipe/Culvert Material
- Drainage Structures Sheet(s) (Per Structure)
- Stormwater Management Detail Plan Sheet(s)
- Miscellaneous Drainage Detail Sheets
- Erosion Control Plan Sheet(s)
- Stormwater Pollution Prevention Plan (SWPPP) Sheet(s)

## 8. Design Traffic Analysis – N/A

## 9. Roadway Design Analysis

### 1. Typical Section

Typical sections will be designed for conformance with roadway configuration shown in the concept plans and current standards. This task assumes that the typical sections will remain as shown in the completed study. Modification of the typical section is not included in this scope of services and can be performed as an additional service if required. The following Typical Sections will be included in the plans:

- Thompson Nursery Road
- W. Lake Ruby Dr.
- Conservation Way
- US 27

### 2. Pavement Design

Pavement Design will be designed to accommodate traffic levels through the roadway facility's design life based on updated ESAL values and resilient modulus. Scope includes design for the following:

- Thompson Nursery Road (new design and milling and resurfacing)
- West Lake Ruby Dr (reconstruction)
- Conservation Way (reconstruction)
- US 27 ( new design and milling and resurfacing)
- Chalet Suzanne Rd ( milling and resurfacing)

### 3. Traffic Control Plans

Temporary Traffic Control (TTC) plans consisting of general notes, detailed plan sheets and references to the appropriate FDOT Standard Plans (Indices 102-600 through 102-670) will be designed for conformance with current standards. TTC plans will be developed to meet the requirements of the current FDOT Standard Plans indices.

## 4. Roadway Design Plans

- Cover Sheet will be created per current standards reference and engineer of record
- General Notes will be created with current COUNTY notes
- Drainage Map – The overall drainage map depicting pond locations and contributing basin areas will be developed based on the drainage analysis task.
- Roadway Plan / Profile Sheets – The plan/profile sheets will be created for horizontal and vertical design requirements, intersection configurations, and turnouts for intersecting streets/driveways. Roadside swale grading, proposed drainage structure and cross drain locations, and erosion control measures will be created based on drainage analysis task.
- Intersection Details / Plan Sheets – Intersection detail plan sheets will be designed for consistency with the horizontal and vertical alignment.
- Driveway Details - The driveway details sheets will be created to depict the limits of driveway and/or roadway reconstruction, grading information, and cross drain information for accommodation of existing residential and commercial driveway and/or local private roadway connections.
- Drainage Structure Sheets – Construction plan sheets providing a tabular listing of drainage structure ID's, FDOT Standard Plans Index references, pipe inverts, and pavement elevations will be created based on the drainage analysis task.
- Pond Detail Sheets and Cross Sections – Pond detail sheets and cross sections will be created to depict the construction of new retention facilities based on the drainage analysis task. The Pond Detail Sheets will include detailed grading information, geometric dimensions, undercut and backfill details, earthwork volume calculations, and design hydrologic data.
- Cross Sections – Roadway cross sections at 100-foot intervals will be created for consistency with the horizontal and vertical alignment. .
- Miscellaneous Detail sheets – For those details not contained in the FDOT Standard Plans for Road Construction, the ENGINEER will check specific details necessary for construction.
- Erosion Control / SWPPP Plans – Erosion control plans depicting site specific erosion control measures, as well as general notes, details, and specifications for additional erosion control measures that may be needed depending on site conditions will be reviewed for conformance with current standards. It is assumed that these plans will constitute the Storm Water Pollution Prevention Plan (SWPPP) that the contractor will utilize during construction. This task includes minor update to the erosion control plans to meet the requirements of the current FDOT Standard Plans indices and FDOT specifications.
- Utility Adjustment Plans – The Utility Adjustment Plans will be created based on information provided by the utility providers in the corridor, the

COUNTY survey, and Utility Coordination task for existing utility alignments and proposed utility adjustments. Landscape and Irrigation Plans – not included in this scope.

5. Submittals

The CONSULTANT will submit electronic copies of the roadway plans at 60%, 90%, 100% and Final Plans completion stage to the COUNTY. The ENGINEER will submit copies of the roadway plans at 60% and 90% to affected utility companies.

6. Quantities

The CONSULTANT will check quantities, update them based on the task descriptions and prepare an Opinion of Probable Construction Costs (OPC) document. An OPC with quantities will be submitted with the 60%, 90%, 100% and Final plans.

## 10. Signalization Design and Plans

Signalized Intersections:

- Lake Ashton Boulevard – Replacement of existing strain pole assembly and pedestrian signals with the installation of three (3) proposed mast arms to treat the three leg intersection. Pedestrian signals for crossing to be provided on all legs of the intersection
  - One (1) temporary modification to loading of existing strain pole assembly and/or proposed mast arms, detection, phasing and clearance intervals is anticipated to be needed to accommodate temporary traffic control plans

Conservation Way – Modification of the existing signalized intersection with the proposed roadway improvements. Modifications will include mast arms, signal heads, detection, preemption, and pedestrian signals.

- US-27 – Replacement of existing strain pole assemblies and pedestrian signals with the installation of four (4) proposed strain poles to treat the four leg intersection. Pedestrian signal for crossing to be provided on all legs of the intersection.
  - One (1) temporary modification to loading of existing strain pole assembly and/or proposed mast arms, detection, phasing and clearance intervals is anticipated to be needed to accommodate temporary traffic control plans

Miscellaneous Signalization Items:

- All signalized intersections will be designed as mast arms and include reflectorized backplates, vehicle detection, APS ready assemblies, overhead internally illuminated street name signs, calculation of clearance calculations

based on FDOT Traffic Engineering Manual (TEM) criteria, and emergency pre-emption calculations.

- Traffic signal interconnect plans will be included under this contract showing conduit only. The interconnect design will run along Thompson Nursery Road, the entire length of the segment.
- All plans shall be prepared in accordance with the latest design standards and practices as detailed in the Manual on Uniform Traffic Control Devices (MUTCD), FDOT Standard Specifications and Design Standards, FDOT Design Manual, FDOT Greenbook, and Americans with Disabilities Act Standards for Accessible Design.
- The signalization plans will be prepared on 11"x17" sheets at a scale of 1"=40'.
- Development of coordinated signal timings are not included as part of this scope of services.
- Signalization Plans will include the following:
  - Key Sheet
  - Tabulation of Quantities Sheet
  - General Notes Sheet
  - Signalization Plan Sheets
  - Intersection Corner Detail Sheets
  - Mast Arm Tabulation Sheet
  - Standard Mast Arm Assemblies Detail Sheet
  - Special Mast Arm Assemblies Detail Sheet
  - Strain Pole Schedule
  - Guidesign Worksheet
  - Interconnect Plan Sheets
  - Splice Details
  - Geotechnical Data Boring Sheets
- Review of signalization plans will be completed by Polk County (maintaining agency).

#### **11. Signing and Pavement Markings**

- The design of the signing and pavement markings shall be in accordance with the latest design standards and practices as detailed in the Manual on Uniform Traffic Control Devices (MUTCD), FDOT Standard Specifications and Design Standards, and FDOT Design Manual.
- The plans will be prepared on 11"x17" sheets at a scale of 1"=50'.
- Signing and pavement marking design to incorporate FDOT Roadway Design Bulletin 21-07 for wrong way driving countermeasures, update pavement markings for turn lane requirements per FDOT standard plans Index 711-001, special emphasis crosswalks, update pavement markings based on roadway surface (permanent tape or thermoplastic), incorporation of markings for recently installed driveway access points, and storing latest pavement markings and RPMs in geopak.

- Multipost design of advance signalized intersection signs in accordance with FDOT TEM. Design to include multipost calculation based on FDOT LRFD v1.1.1 and summarized in multipost calculation book.
- Signing and Pavement Marking Plans will include the following:
  - Key Sheet
  - Tabulation of Quantities Sheet
  - General Notes Sheet
  - Signing and Pavement Marking Plan Sheets
  - Guidesign Worksheet
  - Concrete Pavement Markings Detail Sheet
  - Cross Section Sheets
  - Special Sign Assembly Detail Sheet
- Review of plans will be completed by Polk County (maintaining agency).

## 12. Lighting Analysis and Plans

- Intersection lighting plans will be prepared for signalized intersections listed below. Light fixture, pole, and bracket arm types will be selected based on FDOT and COUNTY preferences. Load center and power service points will be coordinated with TECO Energy. Voltage drop calculations will be performed and photometric analyses will be documented in a Lighting Design Analysis Report.
  - Lake Ashton Boulevard: Lighting design plans will be prepared for the intersection of Thompson Nursery Road at Lake Ashton Boulevard to comply with New or Reconstruction Lighting criteria as outlined in the latest edition of the Florida Design Manual, Table 231.2.1.
  - Conservation Way: Intersection lighting is to be installed as part of a private development. If required, lighting design plans will be prepared to modify the existing lighting at the existing signalized intersection of Conservation Way and Thompson Nursery Road.
  - US 27: Lighting design plans will be prepared for the intersection of Thompson Nursery Road at US 27 to comply with New or Reconstruction Lighting criteria as outlined in the latest edition of the Florida Design Manual, Table 231.2.1
- A Lighting Design Analysis Report (LDAR) will be prepared to summarize the photometric analyses at the signalized intersections.. The analysis will include a printout showing horizontal photometrics at the intersections and vertical photometrics at crosswalks. Voltage drop calculations will be documented in the Appendices. Lighting design criteria, pole, fixture, and bracket arm types, and coordination with utilities/COUNTY staff will be documented in the report. The LDAR will be submitted under a separate cover from the Lighting Design Plans.

### 13. Structural Design and Plans

#### 1. Mast Arm Design

CONSULTANT will prepare structural calculations in letter format for 10 mast arms. Calculations will be submitted at 90%, 100% and Final submittals. Design will be in accordance with the following:

- AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 1st Edition, 2017 Interim Revisions
- FDOT Modifications to AASHTO LRFDLTS-01, January 2026
- FDOT Structures Manual (January 2026)
- FDOT FY 2026-27 Standard Plans
- FDOT Standard Specifications for Road and Bridge Construction (January 2026)

Consultant will prepare Structural Construction Plans utilizing 11"x 17" sheet format for Construction Plan sheets. Plans will be submitted at 90%, 100% and Final submittals.

#### 2. Bridge Design – Peace Creek Crossing

Design will be in accordance with the following:

- AASHTO LRFD Bridge Design Specifications, 10th Edition, 2020
- FDOT Structures Manual (January 2026)
- FDOT FY 2026-27 Standard Plans
- FDOT Standard Specifications for Road and Bridge Construction (January 2026)

- a) Kimley-Horn will provide a bridge development report to evaluate bridge alternatives for the crossing. Three bridge alternatives will be analyzed and a cost comparison will be provided. Analysis will include preliminary load calculation, verification of applicability of superstructure and substructure and general bridge layout (number of spans, vertical clearance ) A report will be provided detailing the bridge alternative Kimley-Horn recommends for final design.
- b) The COUNTY will review and provide direction on the final bridge alternative. For this scope, it is assumed that dual single span, prestressed concrete beam bridges founded on concrete piling will be the selected alternative. If a different alternative is chosen, the scope and fee will require revision.
- c) Kimley-Horn will produce bridge structural calculations, including design load rating calculations (90% submittal only), utilizing letter size format. One PDF document will be submitted to the Client at 60%, 90%, and 100% submittals. One signed and sealed PDF document will be submitted to the CLIENT for their records at the Final submittal.

**14. Subsurface Utility Exploration (SUE) (ECHO)**

Designation includes two-dimensional collection of existing utilities and selected three-dimensional verification as needed for designation. Location includes non-destructive excavation to determine size, type, and location of existing utility, as necessary for final three-dimensional verification. Survey includes collection of data on points as needed for designates and locates. Includes analysis and processing of all field-collected data, and delivery of all appropriate electronic files.

The CONSULTANT shall perform SUE on all locations that include new underground infrastructure or earthwork excavation (i.e. drilled shafts, bridge piles, strain poles, mast arms, miscellaneous foundations, drainage structures, pipe culverts, new ditches, etc.). The expectation is for the CONSULTANT to know exactly where all existing underground utilities and infrastructure are located in areas that work will be performed to properly design for any new underground infrastructure or earthwork excavation that will be constructed on the project. CONSULTANT shall provide electronic depths with the designates.

A Professional Land Surveyor, registered in the State of Florida, shall sign, and seal the data provided and included in the FDOT Verified Utility Locate Plan Sheets. All information shall be provided in the format requested by the COUNTY.

**15. Utility Coordination (ECHO)**

The CONSULTANT is responsible to certify that all necessary arrangements for utility work on this project have been made and will not conflict with the physical construction schedule.

The CONSULTANT should coordinate with COUNTY personnel to coordinate transmittals to Utility Companies and meet production schedules.

The CONSULTANT will follow COUNTY standards, policies, procedures, practices, and design criteria are followed concerning utility coordination.

The CONSULTANT may employ more than one individual or utility engineering consultant to provide utility coordination and engineering design expertise. The CONSULTANT shall identify a dedicated person responsible for managing all utility coordination activities. This person shall be contractually referred to as the Utility Coordination Manager and shall be identified in the CONSULTANT proposal. The Utility Coordination Manager shall be required to satisfactorily demonstrate to the COUNTY personnel that they have the knowledge, skills, and expertise to perform this work.

The CONSULTANT's utility coordination work shall be performed and directed by the Utility Coordination Manager that was identified and approved by COUNTY's Project Manager. Any proposed change of the approved Utility Coordination Manager shall be subject to review and approval by COUNTY's Project Manager prior to any change being made in this contract.

Utilities anticipated on the project: *Charter Communications, Florida Public Utilities, Zayo Group (formerly Lightwave, LLC), Century Link, Comcast, Duke Energy, Frontier Communications, Lumen, City of Lake Wales Utility Department, Polk County Utilities Central Region, Tampa Electric Company, Summit Broadband, Uniti Fiber LLC, City of Winter Haven, Cogent Communications*

**16. Public Involvement – N/A**

**17. Project Administration**

Project administration activities will be undertaken throughout the design contract duration that will include the following:

- **Project Setup:** The CONSULTANT will establish base files and a work plan.
- **Kick-off Meeting:** The CONSULTANT will participate in a kick-off meeting with the COUNTY's project team.
- **Monthly Progress Meetings:** On a monthly basis, the CONSULTANT will meet with the COUNTY's project team to review the progress of work and to conduct project reviews and to coordinate with utility companies. Additionally, meetings will be held with affected utility companies. The CONSULTANT will maintain the design schedule and update the schedule following each progress meeting. For each progress meeting, the CONSULTANT will prepare an agenda, meeting minutes, and schedule update.
- **Quality Control Plan:** The CONSULTANT will provide a Quality Control Plan at the kickoff meeting.

**18. Right of Way Acquisition Assistance**

CONSULTANT will provide in-design and post-design (pre-construction) review for requests by the COUNTY (Real Estate Services) and prepare draft plan sheets and revisions to final plans to support the County's acquisition process.

**19. Bid Document Assistance**

This Task includes the scope of services necessary to assist the COUNTY with preparing the PROJECT for competitive bidding by construction contractors.

- The CONSULTANT will provide plans, bid quantities, technical specifications, special provisions for any modifications to the FDOT specifications, the geotechnical report used for design, and review construction bidding documents (including specifications for the subject work prepared by the COUNTY. The COUNTY will prepare bid documents, forms, and coordinate the bid solicitation.
- The CONSULTANT will attend and participate in the Pre-Bid conference. Minutes of meeting will be prepared by the COUNTY.
- The CONSULTANT will assist with bid addenda responses to questions and concerns that are submitted through the COUNTY's Procurement Office during the bidding process.

- Attend Bid Opening Meeting. Assist COUNTY in review of Contractors bids and documents as well as aid with the preparation of a bid recommendation. Minutes of meeting will be prepared by the COUNTY

**20. Post Design Services**

At the COUNTY'S option, the CONSULTANT may be requested to provide Post Design Services. The COUNTY will supplement the contract fees by change order to provide for Post Design Services not covered in the following section.

The COUNTY will provide full-time on-site inspection (CEI).

#### IV. PROVISIONS FOR WORK

##### 1. **Governing Regulations**

The services performed by the CONSULTANT will follow applicable POLK COUNTY and FDOT Standards and Guidelines. The current edition, including updates, of the following References and Guidelines will be used in the performance of this work.

- Polk County Land Development Code
- FDOT Manual of Uniform Minimum Standards for Design, Construction, and Maintenance for Streets and Highways (Florida Greenbook)
- FDOT Florida Design Manual (FDM)
- AASHTO's "A Policy on Geometric Design of Highways and Streets"
- FDOT Standard Plans Index
- FDOT Standard Specifications for Road and Bridge Construction
- FDOT Traffic Engineering Manual
- Florida Manual on Uniform Traffic Studies (MUTS)
- Manual on Uniform Traffic Control Devices (MUTCD)
- FDOT Soils and Foundations Handbook

#### V. COMPENSATION

CONSULTANT will perform the services detailed above on a labor fee basis with the maximum labor fee of \$3,453,821.68. This labor fee includes the following subconsultant fee's:

Imperial Testing: \$194,487

ECHO: \$382,434.56

ACI: \$38,420.12

For a breakdown of individual activity fee's and staff hour estimates see attached Staff Hour Estimation sheet.

CONSULTANT will not exceed the total maximum labor fee shown without authorization from the COUNTY. However, Kimley-Horn reserves the right to reallocate amounts among tasks as necessary. All permitting, application, and similar Project fees will be paid directly by the COUNTY.

**STAFF HOUR ESTIMATION - THOMPSON NURSERY ROAD PHASE II  
WORKSHEET PACKAGE**

**MARCH 2026**

*File Version: 2025.01.1*

Name of Consultant:

Kimley-Horn and Associates

Thompson Nursery Extension - Phase 2 Design  
450858-1

Activity No.	Activity	Project Staff Hours												Total Hours	
		Kimley-Horn	Imperial Testing	ECHO	ACI	Sub 4	Sub 5	Sub 6	Sub 7	Sub 8	Sub 9	Sub 10	Sub 11		Sub 12
3	Project Common and General Tasks	715													715
4	Roadway Analysis	2805													2805
5	Roadway Plans	1910													1910
6a	Drainage Analysis	3154													3154
6b	Drainage Plans	1420													1420
6c	Selective C&G	0													0
7	Utilities	0		324											324
8	Env. Permits and Env. Clearances	586													586
9	Structures - Summary, Misc. Tasks, Dwgs.	436													436
10	BDR	344													344
11	Temporary Bridge	0													0
12	Short Span Concrete Bridge	0													0
13	Medium Span Concrete Bridge	481													481
14	Structural Steel Bridge	0													0
15	Segmental Concrete Bridge	0													0
16	Movable Span	0													0
17	Retaining Walls	328													328
18	Miscellaneous Structures	132													132
19	Signing & Pavement Marking Analysis	528													528
20	Signing & Pavement Marking Plans	179													179
21	Signalization Analysis	381													381
22	Signalization Plans	258													258
23	Lighting Analysis	184													184
24	Lighting Plans	93													93
25	Landscape Analysis	0													0
26	Landscape Plans	0													0
27	Survey - Field and Office Support	0		497											497
28	Photogrammetry	0													0
29	Mapping	0													0
30	Terrestrial Mobile LiDAR	0													0
31	Architecture Development	0													0
32	Noise Barriers Impact Design Assessment	0													0
33	ITS Analysis	0													0
34	ITS Plans	0													0
35	Geotechnical	0	644												644
36	3D Modeling	526													526
37	CRAS	0			258										258
	<b>Project Total</b>	<b>14,460</b>	<b>644</b>	<b>821</b>	<b>258</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16,183</b>
27	Survey Field Crew Days	0													0

- Notes: 1. Staff hours for prime consultant come directly from each discipline's worksheet.  
 2. Staff hours for subconsultants are to be entered manually into columns D through O.  
 3. For workbooks prepared by subconsultants, their project hours will be totaled in column C.

**ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL**

Financial Project Number: 450858-1

Project Name: Thompson Nursery Extension - Phase 2 Design

FAP Number: 0

Date: 3/26/2026

Name of Consultant: Kimley-Horn and Associates

WORK ACTIVITY	Hours from "Summary" sheet		EMPLOYEE CLASSIFICATION													TOTAL STAFF HOURS				ON CADD PERCENT		
	Firm	Total	Chief Engineer 2	Senior Engineer 2	Senior Engineer 1	Engineer 2	Engineer 1	Engineer in Training	Senior Eng. Tech	Engineering Tech	Chief Designer	Chief Planner	Senior Planner	Project Planner	Planner	Chief Scientist	Senior Env. Specialist	Env. Specialist	Secretary/Clerical		RANGE	
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours			
3. Project Common and Project General Tasks	715		0	0	501	0	0	0	0	0	0	0	0	0	0	0	0	0	215	716	788	
4. Roadway Analysis	2805		140	0	140	281	421	1262	140	421	0	0	0	0	0	0	0	0	0	2805	3086	
5. Roadway Plans	1910		96	0	96	191	287	860	96	287	0	0	0	0	0	0	0	0	0	1913	2104	
6a. Drainage Analysis	3154		158	0	158	315	473	1419	158	473	0	0	0	0	0	0	0	0	0	3154	3469	
6b. Drainage Plans	1420		71	0	71	142	213	639	71	213	0	0	0	0	0	0	0	0	0	1420	1562	
6c. Selective C&G	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7. Utilities	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8. Environmental Permits, and Env. Clearances	586		0	0	0	0	0	0	0	0	0	0	0	0	117	117	352	0	586	645		
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	436		22	0	22	44	65	196	22	65	0	0	0	0	0	0	0	0	0	436	480	
10. Structures - Bridge Development Report	344		17	0	17	34	52	155	17	52	0	0	0	0	0	0	0	0	0	344	378	
11. Structures - Temporary Bridge	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12. Structures - Short Span Concrete Bridge	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. Structures - Medium Span Concrete Bridge	481		24	0	24	48	72	216	24	72	0	0	0	0	0	0	0	0	0	480	528	
14. Structures - Structural Steel Bridge	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15. Structures - Segmental Concrete Bridge	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16. Structures - Movable Span	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17. Structures - Retaining Walls	328		16	0	16	33	49	148	16	49	0	0	0	0	0	0	0	0	0	327	360	
18. Structures - Miscellaneous	132		7	0	7	13	20	59	7	20	0	0	0	0	0	0	0	0	0	133	146	
19. Signing & Pavement Marking Analysis	528		26	0	26	53	79	238	26	79	0	0	0	0	0	0	0	0	0	527	580	
20. Signing & Pavement Marking Plans	179		9	0	9	18	27	81	9	27	0	0	0	0	0	0	0	0	0	180	198	
21. Signalization Analysis	381		19	0	19	38	57	171	19	57	0	0	0	0	0	0	0	0	0	380	418	
22. Signalization Plans	258		13	0	13	26	39	116	13	39	0	0	0	0	0	0	0	0	0	259	285	
23. Lighting Analysis	184		9	0	9	18	28	83	9	28	0	0	0	0	0	0	0	0	0	184	202	
24. Lighting Plans	93		5	0	5	9	14	42	5	14	0	0	0	0	0	0	0	0	0	94	103	
25. Landscape Analysis	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26. Landscape Plans	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27. Survey (Field & Office Support)	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28. Photogrammetry	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29. Mapping	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. Terrestrial Mobile LiDAR	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31. Architecture Development	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32. Noise Barriers Impact Design Assessment	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33. Intelligent Transportation Systems Analysis	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34. Intelligent Transportation Systems Plans	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35. Geotechnical	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
36. 3D Modeling	526		26	0	26	53	79	237	26	79	0	0	0	0	0	0	0	0	0	526	579	
<b>TOTALS</b>	<b>14,460</b>		<b>658</b>	<b>0</b>	<b>1,159</b>	<b>1,316</b>	<b>1,975</b>	<b>5,922</b>	<b>658</b>	<b>1,975</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>117</b>	<b>117</b>	<b>352</b>	<b>215</b>	<b>14464</b>	<b>15910</b>		
<b>Field Survey Estimate:</b>																		<b>14,464</b>	<b>15,910</b>			
0 4-person crew days																		<b>FIRM TOTAL</b>				

- 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: 450858-1

Project Name: Thompson Nursery Extension - Phase 2 Design

FAP Number: 0

Date: 3/26/2026

Name of Consultant: Kimley-Horn and Associates

**Staff Hour Distribution Percentages - Firm Total**

	Hours from "Summary" sheet Firm Total	Chief Engineer 2	Senior Engineer 2	Senior Engineer 1	Engineer 2	Engineer 1	Engineer in Training	Senior Eng. Tech	Engineering Tech	Chief Designer	Chief Planner	Senior Planner	Project Planner	Planner	Chief Scientist	Senior Env. Specialist	Env. Specialist	Secretary/ Clerical	Total
3. Project Common and Project General Tasks	715	0.0%	0.0%	70.0%	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%	30.0%	100.00%
4. Roadway Analysis	2805	5.0%	0.0%	5.0%	10.0%	15.0%	45.0%	5.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
5. Roadway Plans	1910	5.0%	0.0%	5.0%	10.0%	15.0%	45.0%	5.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6a. Drainage Analysis	3154	5.0%	0.0%	5.0%	10.0%	15.0%	45.0%	5.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6b. Drainage Plans	1420	5.0%	0.0%	5.0%	10.0%	15.0%	45.0%	5.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6c. Selective C&G	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%	0.0%	0.0%	0.00%
7. Utilities	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%	0.0%	0.0%	0.00%
8. Environmental Permits, and Env. Clearances	586	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%	20.0%	20.0%	60.0%	0.0%	100.00%
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	436	5.0%	0.0%	5.0%	10.0%	15.0%	45.0%	5.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
10. Structures - Bridge Development Report	344	5.0%	0.0%	5.0%	10.0%	15.0%	45.0%	5.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
11. Structures - Temporary Bridge	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%	0.0%	0.0%	0.00%
12. Structures - Short Span Concrete Bridge	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%	0.0%	0.0%	0.00%
13. Structures - Medium Span Concrete Bridge	481	5.0%	0.0%	5.0%	10.0%	15.0%	45.0%	5.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
14. Structures - Structural Steel Bridge	0	5.0%	0.0%	5.0%	10.0%	15.0%	45.0%	5.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
15. Structures - Segmental Concrete Bridge	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%	0.0%	0.0%	0.00%
16. Structures - Movable Span	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%	0.0%	0.0%	0.00%
17. Structures - Retaining Walls	328	5.0%	0.0%	5.0%	10.0%	15.0%	45.0%	5.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
18. Structures - Miscellaneous	132	5.0%	0.0%	5.0%	10.0%	15.0%	45.0%	5.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
19. Signing & Pavement Marking Analysis	528	5.0%	0.0%	5.0%	10.0%	15.0%	45.0%	5.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
20. Signing & Pavement Marking Plans	179	5.0%	0.0%	5.0%	10.0%	15.0%	45.0%	5.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
21. Signalization Analysis	381	5.0%	0.0%	5.0%	10.0%	15.0%	45.0%	5.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
22. Signalization Plans	258	5.0%	0.0%	5.0%	10.0%	15.0%	45.0%	5.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
23. Lighting Analysis	184	5.0%	0.0%	5.0%	10.0%	15.0%	45.0%	5.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
24. Lighting Plans	93	5.0%	0.0%	5.0%	10.0%	15.0%	45.0%	5.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
25. Landscape Analysis	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%	0.0%	0.0%	0.00%
26. Landscape Plans	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%	0.0%	0.0%	0.00%
27. Survey (Field & Office Support)	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%	0.0%	0.0%	0.00%
28. Photogrammetry	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%	0.0%	0.0%	0.00%
29. Mapping	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%	0.0%	0.0%	0.00%
30. Terrestrial Mobile LiDAR	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%	0.0%	0.0%	0.00%
31. Architecture Development	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%	0.0%	0.0%	0.00%
32. Noise Barriers Impact Design Assessment	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%	0.0%	0.0%	0.00%
33. Intelligent Transportation Systems Analysis	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%	0.0%	0.0%	0.00%
34. Intelligent Transportation Systems Plans	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%	0.0%	0.0%	0.00%
35. Geotechnical	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%	0.0%	0.0%	0.00%
36. 3D Modeling	526	5.0%	0.0%	5.0%	10.0%	15.0%	45.0%	5.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%

**ESTIMATE OF WORK EFFORT - ECHO (Subconsultant)**

**Exhibit "B"**

**Consultant's Pre-Negotiation Est.**

Financial Project Number: 450858-1

Project Name: Thmpson Nursery Extension - Phase 2 Design

FAP Number: N/A

Contract No.: X-XXXX

XX Date: 3/26/2026

Name of Consultant: ECHO

Districtwide Master Contract # / FP ID: XXXXXX-X-32-XX

Estimator: Jerry Comellas, Jr., PE, Eric Cordeau

WORK ACTIVITY	Hours from "Summary" sheet Column "D" Sub-1 Total	EMPLOYEE WORK CLASSIFICATION'S																	TOTAL STAFF HOURS
		Project Manager 3	SUR Senior Surveyor 2	SUR Survey Project Manager 3	Survey/GIS/SUE Analyst 3 (Senior)	Utility Coordinator	Designer	Senior Tech.	Technician	Clerical	Work Class- 10	Work Class- 11	Work Class- 12	Work Class- 13	Work Class- 14	Work Class- 15	Work Class- 16		
		Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	
3. Project Common & Project General Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7. Utilities	324	0	0	0	0	324	0	0	0	0	0	0	0	0	0	0	0	0	
8a. Env. Permits	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8b. Env. Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27a. Survey- (Non-SUE) Field & Office Support	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27b. Survey- (SUE) Field & Office Support	497	75	75	149	198	0	0	0	0	0	0	0	0	0	0	0	0	497	
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>TOTALS</b>	<b>821</b>	<b>75</b>	<b>75</b>	<b>149</b>	<b>198</b>	<b>324</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>821</b>	

Notes:  
 1. This worksheet provides the distribution of a firm's total staff hours for a project.  
 2. Percentages for staff hour distribution by classification are entered below in rows 63 to 96 of this sheet.  
 3. 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.  
 4. Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

27a. Survey (Non-SUE) Field Crew Days:	0.0	4	-person crew days	<b>Firm Total</b>	<b>821</b>
27b. Survey (SUE-Designate) Field Crew Days:	49.0	3	-person crew days		
27b. Survey (SUE-Locate) Field Crew Days:	43.3	3	-person crew days		
27b. Survey (SUE-Survey) Field Crew Days:	23.1	3	-person crew days		
Check (SUE Total):				115.4	

**ESTIMATE OF WORK EFFORT - ECHO (Subconsultant)**

**Consultant's Pre-Negotiation Est.**

Financial Project Number: 450858-1

Project Name: Thompson Nursery Extension - Phase 2 Design

FAP Number: N/A

Date: 3/26/2026

Name of Consultant: ECHO

**Staff Hour Distribution Percentages - Firm Total**

WORK ACTIVITY	Hours from "Summary" sheet Column "D" Sub-1 Total	Staff Hour Distribution Percentages - Firm Total																Total
		Project Manager 3	SUR Senior Surveyor 2	SUR Survey Project Manager 3	Survey/GIS/SUE Analyst 3 (Senior)	Utility Coordinator	Designer	Senior Tech.	Technician	Clerical	Work Class- 10	Work Class- 11	Work Class- 12	Work Class- 13	Work Class- 14	Work Class- 15	Work Class- 16	
3. Project Common & Project General Tasks	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%	0.0%	0.00%
4. Roadway Analysis	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%	0.0%	0.00%
5. Roadway Plans	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%	0.0%	0.00%
6a. Drainage Analysis	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%	0.0%	0.00%
6b. Drainage Plans	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%	0.0%	0.00%
7. Utilities	324	0.0%	0.0%	0.0%	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%	100.00%
8a. Env. Permits	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%	0.0%	0.00%
8b. Env. Compliance & Clearances	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%	0.0%	0.00%
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	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%	0.0%	0.00%
10. Structures - Bridge Development Report	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%	0.0%	0.00%
11. Structures - Temporary Bridge	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%	0.0%	0.00%
12. Structures - Short Span Concrete Bridge	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%	0.0%	0.00%
13. Structures - Medium Span Concrete Bridge	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%	0.0%	0.00%
14. Structures - Structural Steel Bridge	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%	0.0%	0.00%
15. Structures - Segmental Concrete Bridge	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%	0.0%	0.00%
16. Structures - Movable Span	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%	0.0%	0.00%
17. Structures - Retaining Walls	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%	0.0%	0.00%
18. Structures - Miscellaneous	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%	0.0%	0.00%
19. Signing & Pavement Marking Analysis	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%	0.0%	0.00%
20. Signing & Pavement Marking Plans	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%	0.0%	0.00%
21. Signalization Analysis	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%	0.0%	0.00%
22. Signalization Plans	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%	0.0%	0.00%
23. Lighting Analysis	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%	0.0%	0.00%
24. Lighting Plans	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%	0.0%	0.00%
25. Landscape Architecture Analysis	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%	0.0%	0.00%
26. Landscape Architecture Plans	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%	0.0%	0.00%
27a. Survey- (Non-SUE) Field & Office Support	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%	0.0%	0.00%
27b. Survey- (SUE) Field & Office Support	497	15.0%	15.0%	30.0%	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%	100.00%
28. Photogrammetry	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%	0.0%	0.00%
29. Mapping	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%	0.0%	0.00%
30. Terrestrial Mobile LiDAR	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%	0.0%	0.00%
31. Architecture Development	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%	0.0%	0.00%
32. Noise Barriers Impact Design Assessment	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%	0.0%	0.00%
33. Intelligent Transportation Systems Analysis	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%	0.0%	0.00%
34. Intelligent Transportation Systems Plans	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%	0.0%	0.00%
35. Geotechnical	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%	0.0%	0.00%
36. 3D Modeling	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%	0.0%	0.00%

**ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL**

Financial Project Number: 450858-1

Project Name: Thompson Nursery Extension - Phase 2 Design

FAP Number: 0

Date: 3/26/2026

Name of Consultant: Kimley-Horn and Associates

WORK ACTIVITY	Hours from "Summary" sheet		EMPLOYEE CLASSIFICATION											TOTAL STAFF HOURS		ON CADD	
	Firm	Total	Senior Project Engineer	Project Engineer	Project Manager	Drilling Manager	Laboratory Manager	Technical Secretary	Cadd Operator	Staff Engineer/Q C Supervisor	Chief Designer	Chief Planner	Senior Planner	Project Planner	RANGE		
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	PERCENT		
3. Project Common and Project General Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6c. Selective C&G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8. Environmental Permits, and Env. Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35. Geotechnical	644	90	174	109	32	32	109	32	64	0	0	0	0	642	706		
TOTALS	644	90	174	109	32	32	109	32	64	0	0	0	0	642	706		
Field Survey Estimate:											FIRM TOTAL		642	706			
0 4-person crew days																	

Notes:

1. This worksheet provides the distribution of a firm's total staff hours for a project.
2. Percentages for staff hour distribution by classification are entered below in rows 64 to 98 of this sheet.
3. 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.
4. 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: 450858-1

Project Name Thompson Nursery Extension - Phase 2 Design

FAP Number: 0

Date: 3/26/2026 Name of Consultant: Kimley-Horn and Associates

Staff Hour Distribution Percentages - Firm Total														
	Hours from "Summary" sheet Firm Total	Senior Project Engineer	Project Engineer	Project Manager	Drilling Manager	Laboratory Manager	Technical Secretary	Cadd Operator	Senior Engineer/Q C Supervisor	Chief Designer	Chief Planner	Senior Planner	Project Planner	Total
3. Project Common and Project General Tasks	715	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
4. Roadway Analysis	2805	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
5. Roadway Plans	1910	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
6a. Drainage Analysis	3154	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
6b. Drainage Plans	1420	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
6c. Selective C&G	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%	0.00%
7. Utilities	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%	0.00%
8. Environmental Permits, and Env. Clearances	586	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	436	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
10. Structures - Bridge Development Report	344	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
11. Structures - Temporary Bridge	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%	0.00%
12. Structures - Short Span Concrete Bridge	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%	0.00%
13. Structures - Medium Span Concrete Bridge	481	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
14. Structures - Structural Steel Bridge	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%	0.00%
15. Structures - Segmental Concrete Bridge	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%	0.00%
16. Structures - Movable Span	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%	0.00%
17. Structures - Retaining Walls	328	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
18. Structures - Miscellaneous	132	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
19. Signing & Pavement Marking Analysis	528	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
20. Signing & Pavement Marking Plans	179	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
21. Signalization Analysis	381	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
22. Signalization Plans	258	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
23. Lighting Analysis	184	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
24. Lighting Plans	93	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
25. Landscape Analysis	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%	0.00%
26. Landscape Plans	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%	0.00%
27. Survey (Field & Office Support)	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%	0.00%
28. Photogrammetry	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%	0.00%
29. Mapping	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%	0.00%
30. Terrestrial Mobile LiDAR	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%	0.00%
31. Architecture Development	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%	0.00%
32. Noise Barriers Impact Design Assessment	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%	0.00%
33. Intelligent Transportation Systems Analysis	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%	0.00%
34. Intelligent Transportation Systems Plans	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%	0.00%
35. Geotechnical	644	14.0%	27.0%	17.0%	5.0%	5.0%	17.0%	5.0%	10.0%	0.0%	0.0%	0.0%	0.0%	100.00%

**PROJECT DEVELOPMENT & ENVIRONMENT  
PROJECT DATA**

**ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL**

Financial Project Number: 450858-1

Project Name: Thmopson Nursery Extension - Phase 2 Design

FAP Number: \_\_\_\_\_

Date: 3/26/2026

Name of Consultant: Archaeological Consultants, Inc.

WORK ACTIVITY	Hours from "Summary" sheet Firm Total	EMPLOYEE CLASSIFICATION												TOTAL STAFF HOURS RANGE		ON CADD PERCENT	
		Project Manager	Chief Scientist	Senior Scientist	Chief Archaeologist	Senior Archaeologist	GIS Specialist	Archaeologist	Secretary/ Clerical	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12				
		Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours				
Project Description and Objectives	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Engineering Analysis & Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Environmental Analysis & Reports	258	0	26	44	29	64	20	66	9	0	0	0	0	258	284		
Environmental Document	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Design Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>TOTALS</b>	<b>258</b>	<b>0</b>	<b>26</b>	<b>44</b>	<b>29</b>	<b>64</b>	<b>20</b>	<b>66</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>258</b>	<b>284</b>		

Notes:  
 1. This worksheet provides the distribution of a firm's total staff hours for a project.  
 2. 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.  
 3. Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

Field Survey Estimate:  
 \_\_\_\_\_ 4-man crew days

**FIRM TOTAL**      **258**      **284**

**ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL**

Financial Project Number: 450858-1

Project Name: Thmopson Nursery Extension - Phase 2 Design

FAP Number: 0

Date: 3/26/2026

Name of Consultant: Archaeological Consultants, Inc.

Staff Hour Distribution Percentages - Firm Total														
	Hours from "Summary" sheet Firm Total	Project Manager	Chief Scientist	Senior Scientist	Chief Archaeologist	Senior Archaeologist	GIS Specialist	Archaeologist	Secretary/ Clerical	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	Total
Project Description and Objectives	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%	0.00%
Public Involvement	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%	0.00%
Engineering Analysis & Report	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%	0.00%
Environmental Analysis & Reports	258	0.0%	10.1%	17.1%	11.2%	24.8%	7.8%	25.6%	3.5%	0.0%	0.0%	0.0%	0.0%	100.00%
Environmental Document	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%	0.00%
Design Services	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%	0.00%

**ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT**

Name of Project: Thmopson Nursery Extension - Phase 2 Design  
 County: Polk  
 FPN: 450858-1  
 FAP No.:

Consultant Name: Kimley-Horn and Associates  
 Consultant No.:  
 Date: 3/26/2026  
 Estimator: Joseph Roberts

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Chief Engineer 2	Senior Engineer 2	Senior Engineer 1	Engineer 2	Engineer 1	Engineer in Training	Senior Eng. Tech	Engineering Tech	Chief Designer	Chief Planner	Senior Planner	Project Planner	Planner	Chief Scientist	Senior Env. Specialist	Env. Specialist	Secretary/Clerical	SH By	Salary Cost By	Average Rate Per
		\$360.00	\$300.00	\$270.00	\$240.00	\$200.00	\$170.00	\$190.00	\$155.00	\$260.00	\$345.00	\$205.00	\$180.00	\$145.00	\$270.00	\$200.00	\$165.00	\$125.00	Activity	Activity	Task
3. Project Common and Project General Tasks	715	0	0	501	0	0	0	0	0	0	0	0	0	0	0	0	0	215	716	\$162,145	\$226.46
4. Roadway Analysis	2,805	140	0	140	281	421	1,262	140	421	0	0	0	0	0	0	0	0	0	2,805	\$546,235	\$194.74
5. Roadway Plans	1,910	96	0	96	191	287	860	96	287	0	0	0	0	0	0	0	0	0	1,913	\$372,645	\$194.80
6a. Drainage Analysis	3,154	158	0	158	315	473	1,419	158	473	0	0	0	0	0	0	0	0	0	3,154	\$614,305	\$194.77
6b. Drainage Plans	1,420	71	0	71	142	213	639	71	213	0	0	0	0	0	0	0	0	0	1,420	\$276,545	\$194.75
6c. Selective C&G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, and Env. Clearances	586	0	0	0	0	0	0	0	0	0	0	0	0	0	117	117	352	0	586	\$113,070	\$192.95
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	436	22	0	22	44	65	196	22	65	0	0	0	0	0	0	0	0	0	436	\$84,995	\$194.94
10. Structures - Bridge Development Report	344	17	0	17	34	52	155	17	52	0	0	0	0	0	0	0	0	0	344	\$66,910	\$194.51
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	481	24	0	24	48	72	216	24	72	0	0	0	0	0	0	0	0	0	480	\$93,480	\$194.75
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	328	16	0	16	33	49	148	16	49	0	0	0	0	0	0	0	0	0	327	\$63,595	\$194.48
18. Structures - Miscellaneous	132	7	0	7	13	20	59	7	20	0	0	0	0	0	0	0	0	0	133	\$25,990	\$195.41
19. Signing & Pavement Marking Analysis	528	26	0	26	53	79	238	26	79	0	0	0	0	0	0	0	0	0	527	\$102,545	\$194.58
20. Signing & Pavement Marking Plans	179	9	0	9	18	27	81	9	27	0	0	0	0	0	0	0	0	0	180	\$35,055	\$194.75
21. Signalization Analysis	381	19	0	19	38	57	171	19	57	0	0	0	0	0	0	0	0	0	380	\$74,005	\$194.75
22. Signalization Plans	258	13	0	13	26	39	116	13	39	0	0	0	0	0	0	0	0	0	259	\$50,465	\$194.85
23. Lighting Analysis	184	9	0	9	18	28	83	9	28	0	0	0	0	0	0	0	0	0	184	\$35,750	\$194.29
24. Lighting Plans	93	5	0	5	9	14	42	5	14	0	0	0	0	0	0	0	0	0	94	\$18,370	\$195.43
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
36. 3D Modeling	526	26	0	26	53	79	237	26	79	0	0	0	0	0	0	0	0	0	526	\$102,375	\$194.63
<b>Total Staff Hours</b>	14,460	658	0	1,159	1,316	1,975	5,922	658	1,975	0	0	0	0	0	117	117	352	215	14,464		
<b>Total Staff Cost</b>		\$236,880.00	\$0.00	\$312,930.00	\$315,840.00	\$395,000.00	\$1,006,740.00	\$125,020.00	\$306,125.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$31,590.00	\$23,400.00	\$58,080.00	\$26,875.00		<b>\$2,838,480.00</b>	<b>\$196.24</b>

Check = \$2,838,480.00

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:																					\$2,838,480.00	
OVERHEAD:																					\$0.00	
OPERATING MARGIN:																					\$0.00	
FCCM (Facilities Capital Cost Money):																					\$0.00	
EXPENSES:																					\$0.00	
Survey (Field - if by Prime)										0										\$ -	/ day	\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>																						<b>\$2,838,480.00</b>
Subconsultant:											Imperial Testing											\$87,980.00
Subconsultant:											ECHO											\$382,434.56
Subconsultant:											ACI											\$38,420.12
<b>SUBTOTAL ESTIMATED FEE:</b>																						<b>\$3,347,314.68</b>
Geotechnical Field and Lab Testing																						\$106,507.00
<b>SUBTOTAL ESTIMATED FEE:</b>																						<b>\$3,453,821.68</b>
Optional Services																						\$0.00
<b>GRAND TOTAL ESTIMATED FEE:</b>																						<b>\$3,453,821.68</b>

**ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT**

Name of Project: Thmpson Nursery Extension - Phase 2 Design  
 County: Polk  
 FPN: 450858-1  
 FAP No.:

Consultant Name: Imperial Testing  
 Consultant No.:  
 Date: 3/26/2026  
 Estimator:

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Senior Project Engineer	Project Engineer	Project Manager	Drilling Manager	Laboratory Manager	Technical Secretary	Cadd Operator	Staff Engineer/QC Supervisor	Chief Designer	Chief Planner	Senior Planner	Project Planner	SH By	Salary Cost By	Average Rate Per
		\$195.00	\$180.00	\$130.00	\$125.00	\$110.00	\$60.00	\$90.00	\$125.00	\$0.00	\$0.00	\$0.00	\$0.00	Activity	Activity	Task
3. Project Common and Project General Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6c. Selective C&G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, and Env. Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	644	90	174	109	32	32	109	32	64	0	0	0	0	642	\$87,980	\$137.04
<b>Total Staff Hours</b>	<b>644</b>	<b>90</b>	<b>174</b>	<b>109</b>	<b>32</b>	<b>32</b>	<b>109</b>	<b>32</b>	<b>64</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>642</b>		
<b>Total Staff Cost</b>		\$17,550.00	\$31,320.00	\$14,170.00	\$4,000.00	\$3,520.00	\$6,540.00	\$2,880.00	\$8,000.00	\$0.00	\$0.00	\$0.00	\$0.00		\$87,980.00	\$137.04

Check = \$87,980.00

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:				\$87,980.00
OVERHEAD:		0%		\$0.00
OPERATING MARGIN:		0%		\$0.00
FCCM (Facilities Capital Cost Money):		0.00%		\$0.00
EXPENSES:		0.00%		\$0.00
Survey (Field - if by Prime)	#REF!	4-person crew days @	\$ - / day	#REF!
<b>SUBTOTAL ESTIMATED FEE:</b>				<b>\$87,980.00</b>
<b>SUBTOTAL ESTIMATED FEE:</b>				<b>\$87,980.00</b>
Geotechnical Field and Lab Testing				\$106,507.00
<b>SUBTOTAL ESTIMATED FEE:</b>				<b>\$194,487.00</b>
Optional Services				\$0.00
<b>GRAND TOTAL ESTIMATED FEE:</b>				<b>\$194,487.00</b>

**ESTIMATE OF WORK EFFORT AND COST - ECHO (Subconsultant)**

**Exhibit "B"  
Consultant's Pre-Negotiation Est.**

Name of Project: Thompson Nursery Extension - Phase 2 Design  
 County: \_\_\_\_\_  
 FPN: 450858-1  
 FAP No.: \_\_\_\_\_

**Contract No.:**  
**N/A**  
**Districtwide Master Contract # / FP ID:**

Consultant Name: **ECHO**  
 Consultant No.: \_\_\_\_\_  
 Date: 3/26/2026  
 Estimator: Jerry Comellas, Jr., PE, Eric Cordeau

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager 3	SUR Senior Surveyor 2	SUR Survey Project Manager 3	Survey/GIS/SUE Analyst 3 (Senior)	Utility Coordinator	Engineering Intern	Senior Designer	Chief Scientist	Scientist	Utility Coordinator	Work Class- 11	Work Class- 12	Work Class- 13	Work Class- 14	Work Class- 15	Work Class- 16	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$304.83	\$260.83	\$164.81	\$95.94	\$141.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
3. Project Common & Project General Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	324	0	0	0	0	324	0	0	0	0	0	0	0	0	0	0	0	324	\$45,814	\$141.40
8a. Env. Permits	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8b. Env. Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27a. Survey- (Non-SUE) Field & Office Support	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27b. Survey- (SUE) Field & Office Support	497	75	75	149	198	0	0	0	0	0	0	0	0	0	0	0	0	497	\$85,977	\$172.99
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
<b>Total Staff Hours</b>	<b>821</b>	<b>75</b>	<b>75</b>	<b>149</b>	<b>198</b>	<b>324</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>821</b>		
<b>Total Staff Cost</b>		<b>\$22,862.25</b>	<b>\$19,562.25</b>	<b>\$24,556.69</b>	<b>\$18,996.12</b>	<b>\$45,813.60</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>		<b>\$131,790.91</b>	<b>\$160.52</b>

Check = \$131,790.91

SALARY RELATED COSTS:			\$131,790.91
OVERHEAD:	0.00%		\$0.00
OPERATING MARGIN:	0.00%		\$0.00
FCCM (Facilities Capital Cost Money):	0.0000%		\$0.00
EXPENSES:	0.00%		\$0.00

Environmental Permit Fees: ECHO \$0.00

**SUBTOTAL ESTIMATED FEE: \$131,790.91**

Survey Survey (Non-SUE) Field	0.0	4-person crew days @	\$0.00 / day	\$0.00
(SUE)				
Survey (SUE-Designate) Field	392.0	3-person crew days @	\$ 282.56 / day	\$110,763.52
Survey (SUE-Locate) Field	346.4	3-person crew days @	\$ 282.56 / day	\$97,878.78
Survey (SUE-Survey) Field	184.8	3-person crew days @	\$ 227.28 / day	\$42,001.34

**(SUE-Field) SUBTOTAL ESTIMATED FEE: \$250,643.65**

**GEOTECHNICAL (Field and Lab Testing): \$0.00**

**SUBTOTAL ESTIMATED FEE: \$382,434.56**

Optional Services: \$0.00

**GRAND TOTAL ESTIMATED FEE: \$382,434.56**

**Notes:**

1. This sheet to be used by Subconsultant to calculate its fee.
2. UNUSED Subconsultant "ROWS SHALL be hidden."

**PROJECT DEVELOPMENT & ENVIRONMENT  
PROJECT DATA**

**ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT**

Name of Project: Thompson Nursery Extension - Phase 2 Design  
 County: 450858-1  
 FPN: 450858-1  
 FAP No.:

Consult. Name: Archaeological Consultants, Inc.  
 Consult. No.  
 Date: 3/26/2026  
 Estimator: Kim Irby

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Chief Scientist	Senior Scientist	Chief Archaeologist	Senior Archaeologist	GIS Specialist	Archaeologist	Secretary/ Clerical	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$0.00	\$242.61	\$198.76	\$159.01	\$138.19	\$134.40	\$93.44	\$117.37	\$0.00	\$0.00	\$0.00	\$0.00			
Project Description and Objectives	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Engineering Analysis & Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Environmental Analysis & Reports	258	0	26	44	29	64	20	66	9	0	0	0	0	258	\$38,420	\$148.92
Environmental Document	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Design Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
<b>Total Staff Hours</b>	258	0	26	44	29	64	20	66	9	0	0	0	0	258		
<b>Total Staff Cost</b>		\$0.00	\$6,307.86	\$8,745.44	\$4,611.29	\$8,844.16	\$2,688.00	\$6,167.04	\$1,056.33	\$0.00	\$0.00	\$0.00	\$0.00		<b>\$38,420.12</b>	<b>\$148.92</b>

Check = \$38,420.12

SALARY RELATED COSTS:		\$38,420.12
OVERHEAD:	0.00%	\$0.00
OPERATING MARGIN:	0.00%	\$0.00
FCCM (Facilities Capital Cost Money):	0.00%	\$0.00
EXPENSES:	0.00%	\$0.00
<b>SALARY RELATED SUBTOTAL:</b>		<b>\$38,420.12</b>
Survey (Field - if by Sub)	0.00 4-man crew days \$ - / day	\$0.00
<b>SUBTOTAL - SUBCONSULTANT</b>		<b>\$38,420.12</b>
Optional Services		\$0.00
<b>SUBCONSULTANT TOTAL ESTIMATED FEE:</b>		<b>\$38,420.12</b>

Note:  
 1. This sheet to be used by Subconsultant to calculate its fee.

**Project Activity 3: General Tasks**

Estimator: Joseph Roberts					Thompson Nursery Extension - Phase 2 Design 450858-1	
<b>Representing</b>		<b>Print Name</b>			<b>Signature / Date</b>	
Polk County						
Kimley-Horn and Associates						
<b>NOTE: Signature Block is optional, per District preference</b>						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.1	Public Involvement					
3.1.1	Community Awareness Plan	LS	1	0	0	N/A - County stated no CAP required
3.1.2	Notifications	LS	1	0	0	N/A - County decided not to provide elected official notification letter
3.1.3	Preparing Mailing Lists	LS	1	0	0	N/A no public meetings
3.1.4	Median Modification Letters	LS	1	0	0	N/A - No medians along project
3.1.5	Driveway Modification Letters	LS	1	0	0	N/A - not part of scope
3.1.6	Newsletters	LS	1	0	0	N/A - not part of scope
3.1.7	Renderings and Fly Throughs	LS	1	0	0	N/A - not part of scope
3.1.8	PowerPoint Presentation	LS	1	0	0	N/A - not part of scope
3.1.9	Public Meeting Preparations	LS	1	0	0	N/A - not part of scope
3.1.10	Public Meeting Attendance/Followup	LS	1	0	0	N/A - not part of scope
3.1.11	Other Agency Meetings	LS	1	0	0	N/A - not part of scope
3.1.12	Web Site	LS	1	0	0	N/A - not part of scope
<b>3.1 Public Involvement Subtotal</b>					<b>0</b>	
3.2	Joint Project Agreements	EA	0	0	0	
3.3	Specifications & Estimates					
3.3.1	Specifications Package Preparation	LS	1	20	20	specifications creation using FDOT
3.3.2	Estimated Quantities Report Preparation	Report	1	Calculated Hours 28	28	Roadway, Drainage, Lighting, Structures, Signals, S&PM
		Components	6			
3.4	Contract Maintenance and Project Documentation	LS	1	128	128	20 hours start-up + 16 month project duration +12 final documentation = 20+16*6 +12 = 128
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	N/A
3.6	Prime Consultant Project Manager Meetings	LS	1	539	539	See listing below
3.7	Plans Update	LS	1	0	0	

**Project Activity 3: General Tasks**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.8	Post Design Services	LS	1	0	0	To be negotiated at a future date
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	
3.11.1	Aeronautical Evaluation	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	
<b>3. Project Common and Project General Tasks Total</b>					<b>715</b>	
<b>3.6 - List of Project Manager Meetings</b>						
		Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway Analysis		EA	32	9	288	travel time, meeting minutes, attendance PM and Deputy etc. Data is provided in roadway analysis section
Drainage		EA	9	9	81	travel time, meeting minutes, attendance PM and Deputy
Selective C&G		EA	0	0	0	
Utilities		EA	0	0	0	
Environmental		EA	3	9	27	travel time, meeting minutes, attendance PM and Deputy
Structures		EA	1	9	9	travel time, meeting minutes, attendance PM and Deputy
Signing & Pavement Marking		EA	2	9	18	travel time, meeting minutes, attendance PM and Deputy
Signalization		EA	4	9	36	travel time, meeting minutes, attendance PM and Deputy
Lighting		EA	8	9	72	travel time, meeting minutes, attendance PM and Deputy
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	0	0	0	included in the roadway meetings above
Phase Reviews		EA	0	0	0	
Field Reviews		EA	1	8	8	
<b>Total Project Manager Meetings</b>			<b>60</b>		<b>539</b>	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.

**Project Activity 4: Roadway Analysis**

Estimator: Luis Nieto

Thompson Nursery Extension - Phase 2 Design  
450858-1

Representing	Print Name	Signature / Date
Polk County		
Kimley-Horn and Associates		

**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	102	102	Thompson Nursery Rd = 3 Typical ; W Lake Ruby Dr = 1 typical ; Conservation Way = 1 Typical ; US 27 = 2 Typical ; Chalet Suzanne Rd = 1 Typical ; Total # of Typical= 8 Typical. 22 hrs for Data sheet + 10 hrs per typical * 8 typical = <b>102 hrs Total</b>
4.2	Pavement Type Selection Report	LS	1	0	0	N/A
4.3	Pavement Design Package	LS	1	120	120	Thompon Nursery Rd: (1) New Const Pavt Design + (1) Milling and Resurfacing (M&R) ; West Lake Ruby Dr: (1) Reconst; Conservation Way: (1) Reconst, US 27: (1) New Const, (1) M&R; Chalet Suzanne Rd: (1) Reconst, (1) M&R; Total Pavement designs = 8; Initial Set up + 1 pavement design = 50 hrs + 7 pavement designs @ 10 hrs each = <b>120 hrs Total</b>
4.4	Cross-Slope Correction	LS	1		0	
4.5	Horizontal /Vertical Master Design Files	LS	1	890	890	Project length = 2.9 miles; 320 hrs (1st mile) + 300 hrs * 1.9 (remaining miles) = <b>890 hrs</b>
4.6	Access Management	LS	1	58	58	2.9 miles of divided roadway * 20 hrs per mile = <b>58 hrs</b>
4.7	Roundabout Evaluation	LS	1	0	0	N/A
4.8	Roundabout Final Design Analysis	LS	1	0	0	N/A
4.9	Cross Section Design Files	LS	1	0	0	Using Task 36.5 for this section
4.10	Temporary Traffic Control Plan Analysis	LS	1	210	210	Level II and Level III: Analysis necessary to develop a TTCP concept, such as determining lane configurations, lane closure analysis, traffic pacing analysis, detour usage, diversions usage, lane shift usage, and creating a pedestrian TTCP concept; (LS) 140 hrs; Add ons: Temp Signalization = 30 hrs; Cross Section analysis: US 27 (24 hrs); W Lake Ruby Dr (16 hrs). Total cross section analysis= 40 hrs. <b>Total TTCP analysis =210 hrs</b>
4.11	Master TTCP Design Files	LS	1	679	679	Vehicular TTCP = 44 hrs * 2.9 miles * 4 phases = 511 hrs; Pedestrian TCP = 24 hrs * 4 phases = 96 hr; Temporary Drainage = 24 hrs * 3 phases = 72 hrs. Total Hours = <b>679 hrs Total</b>
4.12a	Selective Clearing and Grubbing of Existing VegetationField Assessment	LS	1	0	0	N/A
4.12b	Selective Clearing and Grubbing Site Inventory of Existing Vegetation and Cross-Discipline Coordination (OPTIONAL SERVICES)	LS	1	0	0	N/A
4.12c	Selective Clearing and Grubbing- Existing Vegetation Maintenance Report	LS	1	0	0	N/A

**Project Activity 4: Roadway Analysis**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.13	Tree Disposition Plan	LS	1	0	0	N/A
4.14	Design Variations and Exceptions	LS	1	0	0	None anticipated at this time
4.15	Design Report	LS	1	60	60	SE Calcs, Truck Turning Movements, Intersection Sight Distance, Sight Distance
4.16	Quantities	LS	1	143	143	16 hrs / mile * 2.9 miles + 48 hrs x 2 (Roadway & TCP) = <b>143 hrs</b>
4.17	Cost Estimate	LS	1	48	48	Initial Cost Estimate 16 hrs + 4 submittals * 8 hrs= 3 * 24 hrs = <b>48 hrs</b>
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	N/A
4.19	Other Roadway Analyses	LS	1	0	0	N/A
<b>Roadway Analysis Technical Subtotal</b>					<b>2310</b>	
4.20	Field Reviews	LS	1	48	48	3 field review * 2 people * 8 hrs per field visit (2 hr drive + 6 hr field review) = 48 hrs
4.21	Monitor Existing Structures	LS	1	0	0	N/A
4.22	Technical Meetings	LS	1	160	160	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	5%	116	
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	116	
<b>Roadway Analysis Nontechnical Subtotal</b>					<b>440</b>	
4.26	Coordination	LS	%	2%	55	
<b>4. Roadway Analysis Total</b>					<b>2805</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number	
Typical Section	EA	1	5	5	1 Typ Section meeting with prep work (1 person)	yes	1	
Pavement	EA	1	5	5	1 Pavement Design meeting with prep work (1 person)	yes	1	
Access Management	EA	1	5	5	1 Access management meeting with prep work (1 person)	yes	1	
15% Line and Grade	EA	0	0	0			0	
Driveways	EA	0	0	0			0	
Local Governments (cities, counties, MPO)	EA	6	5	30	In person Meetings with meeting and Prep Work (1 p)	yes	6	
Work Zone Traffic Control	EA	2	5	10	In person Meetings with meeting and Prep Work (1 p)	yes	2	
30/60/90/100% Comment Review Meetings	EA	4	5	20	In person Meetings with meeting at each Phase and Prep Work (1 p)	yes	4	
Other Meetings	EA	17	5	85	Kick-Off, 16 Monthly Progress Mtgs	yes	17	
<b>Subtotal Technical Meetings</b>				<b>160</b>			<b>Subtotal Project Manager Meetings</b>	<b>32</b>
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>		--	
<b>Total Meetings</b>				<b>160</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>32</b>	

**Project Activity 5: Roadway Plans**

Estimator: Luis Nieto

Thompson Nursery Extension - Phase 2 Design  
450858-1

Representing	Print Name	Signature / Date
Polk County		
Kimley-Horn and Associates		

**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 & Signature Sheet		Sheet	1	8	8	
5.2	Summary of Pay Items Including Quantity Input		Sheet	3	24	72	
5.3	Typical Section Sheets						
5.3.1	Typical Sections		EA	8	10	80	
5.3.2	Typical Section Details		EA	1	0	0	
5.4	General Notes/Pay Item Notes		Sheet	1	12	12	
5.5	Summary of Quantities Sheets		Sheet	20	5	100	
5.6	Project Layout	200	Sheet	6	8	48	2.9 miles project length * 5280 ft / mile = 15,312 ft. / 2900 ft per sheet coverage = 6 sheets
5.7	Plan/Profile Sheet		Sheet	0	0	0	
5.8	Profile Sheet	50	Sheet	25	6	150	2.9 miles project length * 5280 ft / mile = 15,312 ft. / 725 ft per sheet coverage = 22 sheets. W Lake Ruby Dr = 1 sheet; US 27 = 2 sheets. <b>Total Profile sheets = 25 sheets</b>
5.9	Plan Sheet	50	Sheet	25	6	150	2.9 miles project length * 5280 ft / mile = 15,312 ft. / 725 ft per sheet coverage = 22 sheets. W Lake Ruby Dr = 1 sheet; US 27 = 2 sheets. <b>Total Profile sheets = 25 sheets</b>
5.10	Special Profile		Sheet	0	0	0	
5.11	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	N/A
5.12	Interchange Layout Sheet		Sheet	0	0	0	N/A

**Project Activity 5: Roadway Plans**

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.13	Ramp Terminal Details (Plan View)		Sheet	0	0	0	N/A
5.14	Intersection Layout Details	20	Sheet	6	16	96	Intersection Layout sheets for: (1) W Lake Ruby Dr; (1) Traditions Blvd. (1) Lake Ashton Blvd. (1) Ashton Covey Blvd (1) Conservation Way; (1) US 27. <b>Total = 6 intersection Detail sheets</b>
5.15	Special Details		EA	0	0	0	
5.16	Cross-Section Pattern Sheets		Sheet	0	0	0	N/A
5.17	Roadway Soil Survey Sheets	200	Sheet	6	1	6	Sheet provided by Geotechnical discipline.
5.18	Cross Sections		EA	185	0.5	93	Project Length = 15,312 ft. / 100 ft cross sections = 154 cross sections; W Lake Ruby Dr = 320 ft / 50 ft cross sections= 7 cross sections; US 27 = 1200 ft / 50 ft cross sections = 24 cross sections. <b>Total Cross sections = 185 cross sections</b>
5.19	Temporary Traffic Control Plan Sheets	50	Sheet	100	6	600	Project length + side streets = 25 sheets * 4 TCP phases = 100 sheets
5.20	Temporary Traffic Control Cross Section Sheets		EA	0	0	0	N/A
5.21	Temporary Traffic Control Detail Sheets		Sheet	6	10	60	(2) General TCP notes (2) TCP Phasing notes w/ typicals (2) Advance TTCP signs . <b>Total sheets = 6 sheets</b>
5.22	Utility Adjustment Sheets		Sheet	25	9	225	25 sheets (Same as roadway plan sheets)
5.23	Selective Clearing and Grubbing Sheets						
5.23.1	Selective Clearing and Grubbing		Sheet	0	0	0	NA
5.23.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	NA
5.24	Tree Disposition Sheets						
5.24.1	Tree Disposition Plan Sheets		Sheet	0	0	0	NA
5.24.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	NA
5.25	Project Control Sheets	200	Sheet	6	1	6	Sheet provided by Geotechnical discipline.
5.26	Environmental Detail Sheets		Sheet	0	0	0	
5.27	Utility Verification Sheets (SUE Data)		Sheet	3	10	30	
<b>Roadway Plans Technical Subtotal</b>						<b>1736</b>	
5.28	Quality Assurance/Quality Control		LS	%	5%	87	
5.29	Supervision		LS	%	5%	87	
<b>5. Roadway Plans Total</b>						<b>1910</b>	

Estimator:

### 6a. Drainage Analysis Staff Hours

Thompson Nursery Extension - Phase 2 Design  
450858-1

Representing	Print Name	Signature / Date
Polk County		
Kimley-Horn and Associates		

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Project Parameter			Staff Hours				Documentation Provide documentation when negotiated hours differ from the calculated hours.	
		Description	Units	Complexity	Calculated	Department	Consultant	Negotiated		
6a.1	Base Clearance Analysis	Locations	5	Standard	40	0	0	40	Total # of Sag locations	
		Report	0		0	0	0	0		
6a.2	Hydroplaning Analysis	LS	0		0	0	0	0		
6a.3	Existing Permit Analysis	LS	1	Complex	20	0	0	20	Exist. permit search through area	
6a.4	Utility Conflict Matrix (for drainage structures)	LS	1	Complex	16	0	0	16	Updating Utility Conflict Matrix	
6a.5	Noise Barrier Drainage Analysis	Wall Length (Miles)	0.00		0	0	0	0		
6a.6	Temporary Drainage Analysis	LS	1	Complex	40	0	0	40	For areas of drainage concern for MOT design	
6a.7	Pond Siting Analysis and Report	Basins	5	Simple	120	0	0	120	Stormwater management Report & Assessment	
		Report	0		0	0	0	0		
6a.8	Analysis of Pipe Video Inspection Report	LS	0		0	0	0	0		
6a.9	Bridge Hydraulic Report (Canal Crossing or Ped Bridge)	Canal Xing or Ped Bridge	0	Standard	0	0	0	0		
	Bridge Hydraulic Report (Main Bridge, Non-Tidal)	w/o Relief Bridges	1	Standard	200	0	0	200	Bridge crossing through Peace Creek Canal	
		With Relief Bridges	0		0	0	0	0		
		No-Rise	0		0	0	0	0		
	Bridge Hydraulic Report (Main Bridge, Tidal)	w/o Relief Bridges	0		0	0	0	0		
		With Relief Bridges	0		0	0	0	0		
		No-Rise	0		0	0	0	0		
Wave Modeling	Wave Modeling	0		0	0	0	0			
6a.10	Design of Minor Cross Drains	Cross Drains	0	Simple	0	0	0	0		
			0	Standard	0	0	0	0		
			0	Complex	0	0	0	0	0	
			0	Simple	0	0	0	0	0	

	Design of Major Cross Drains	Cross Drains	5	Standard	120	0	0	120	4 identified cross drains, 1 in Basin 13 based on PSR, 1 across from lake ashton Golf Club. 2 across from recently permitting The Preserve at Lake Ashton. 1 potential additional cross drain at Basin 17 location to accompany road change in profile.
			0	Complex	0	0	0	0	
6a.11	Design of Ditches and Side Drains	Ditches (Miles)	0.00	Simple	0	0	0	0	
			6.00	Standard	120	0	0	120	Assumed 6.0 miles (2x length of project)
			0.00	Complex	0	0	0	0	
		Side Drains	25		50	0	0	50	Based on driveway crossings and future maintenance access points to ponds
6a.12	Design of Stormwater Management Facility	Ponds	0	Simple	0	0	0	0	
				Standard	0	0	0	0	
			7	Complex	700	0	0	700	Pond 14B1, 14B2, 15A, 16A, 17B, 18B. Stormwater management effort for calculations in Basin 13 draining to Pond 12 (from others)
		Cells	0		0	0	0	0	
6a.13	Design of Floodplain Compensation	Basins	4	Complex	272	0	0	272	From PSR of Seg. 5, number of anticipated basins with FPC
6a.14	Design of Storm Drains	Drainage Structures	178	Standard	623	0	0	623	project length 3.0 miles roughly 15800 ft.
		Non-Standard Structures	6		18	0	0	18	6 pond control structures
6a.15	Optional Culvert Material	Drainage Pipes	178	Standard	38	0	0	38	
6a.16	Design of Trench Drains	Each	0		0	0	0	0	
6a.17	Design of French Drain Systems	Cell	0		0	0	0	0	
	Evaluation of Existing French Drain Systems	Cell	0		0	0	0	0	
6a.18	Design of Drainage Wells	Wells	0		0	0	0	0	
6a.19	Stormwater Runoff Control Concept	Length (Miles)	6.00	Complex	36	0	0	36	Assumed 6.0 miles (2x length of project). Perimeter protection for both sides of road. Peace Creek Canal stormwater runoff protection
6a.20	Other Drainage Tasks	LS			0	0	0	120	Peace creek Canal is public land north + south of TNR segment 5. Private land for through section of TNR seg. 5. ~40hrs for effort of coordination with public land owners/easements for canal requirements. Ask Joe. Drainage connection permit for USHWY 27 connection at end of project. Includes coordination and drainage analysis for FDOT(80 hrs).

6a.21	Drainage Design Documentation Report	Report	1	Complex	80	0	0	80	Assumed Exhibits: Floodplain compensation + XSs, Wetland Exhibits, Soils, Pond + R/W exhibits
		Exhibits	5		40	0	0	40	
6a.22	Drainage Quantities for EQ Report	LS	0	Standard	0	0	0	0	
6a.23	Cost Estimate	Engineer Estimate	3	Standard	15	0	0	15	
		LRE Updates	0		0	0	0	0	
6a.24	Technical or Modified Special Provisions	TSPs & MSPs	0		0	0	0	0	
<b>Drainage Analysis Technical Subtotal</b>					<b>2548</b>	<b>0</b>	<b>0</b>	<b>2668</b>	
6a.25	Quality Assurance/Quality Control	LS	1	5%	128	0	0	134	
6a.26	Supervision	LS	1	5%	128	0	0	134	
6a.27	Drainage Meetings (listed below)	Meetings	32		64	0	0	64	
		Travel Time			8	0	0	8	
6a.28	Field Reviews (listed below)	LS			54	0	0	54	
<b>Drainage Analysis Non-Technical Subtotal</b>					<b>382</b>	<b>0</b>	<b>0</b>	<b>394</b>	
6a.29	Coordination	%	1	3%	88	0	0	92	
<b>Drainage Analysis Total</b>					<b>3018</b>	<b>0</b>	<b>0</b>	<b>3154</b>	

Carries to Summary Tab

Technical Meetings	# Meetings Designer	Travel Time (Hours)	# Meetings PM	Documentation
Base Clearance Water Elevation	0	0	0	
Pond Siting	1	0	1	
Agency	4	3	4	
Local Governments (cities, counties)	2	3	1	
FDOT Drainage	0	0	0	
Utility Coordination	2	0	1	
Other Meetings	2	0	2	
<b>Subtotal Technical Meetings</b>	<b>11</b>	<b>6</b>	<b>9</b>	
Progress Meetings (if required by FDOT)	19	2		
Phase Review Meetings	2	0		
<b>Total Drainage Meetings</b>	<b>32</b>	<b>8</b>		

Field Reviews	# of Staff	Site Time (per staff)	Travel Time (per staff)	Total Hours
Field Review #1	2	6	3	18
Field Review #2	2	6	3	18
Field Review #3	2	6	3	18
Field Review #4	0	0	0	0
Plans-in-hand Field Review	0	0	0	0
<b>Total Field Review Hours</b>				<b>54</b>

Estimator:

Thompson Nursery Extension - Phase 2 Design  
450858-1

<b>Representing</b>	<b>Print Name</b>	<b>Signature / Date</b>
Polk County		
Kimley-Horn	Victor Gallo	

**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
6b.1	Drainage Map (Including Interchanges)		Sheet	7	24	168	assumes 200 scale at 2800 lf per sheet; 6 post developed map + 1 Exist. Structures Sheet
6b.2	Summary of Drainage Structures		Sheet	7	20	140	184 structure/ 30 structures / sheet = 7 sheets
6b.3	Drainage Structures		EA	184	2.5	460	Project length 17,000 ft / 200ft per inlet * 2 inlets per C&G side = 158. 6 ponds 1 outfall structure and 1 control structure per pond. 5 FPCs 1 outfall structure per FPC. 3 side streets 3 inlets per side street (1 junction 1 for each side of curb). 158+12+5+9 = 184
6b.4	Lateral Ditch Plan/Profile		Sheet	0	0	0	N/A covered in plan view of sheets
6b.5	Lateral Ditch Cross Sections		EA	8	12	96	Detail Sheets for Pond typical sections
6b.6	Retention/Detention Ponds Detail Sheets		Sheet	11	24	264	Pond 14b1, 14b2, 15, 16, 17, 18 + FPC 14/15, 16, 17, 18
6b.7	Retention Pond Cross Sections		EA	96	0.25	24	Pond cross sections (16 per pond)
6b.8	Erosion Control Plan Sheets		Sheet	26	4	104	Erosion Control Plan Sheets, same as roadway plan sheets
6b.9	SWPPP Sheets		Sheet	3	4	12	SWPPP information
<b>Drainage Plans Technical Subtotal</b>						<b>1268</b>	
6b.10	Quality Assurance/Quality Control		LS	%	7%	89	
6b.11	Supervision		LS	%	5%	63	
<b>6. Drainage Plans Total</b>						<b>1420</b>	

## Project Activity 7. Utilities (ECHO)

Estimator: Eric Cordeau, ECHO UES		:(Drop down box)		Thompson Nursery Road from W. Lake Ruby Dr. to the US 27 (Design Segment 5)		
		Consultant's Pre-Negotiation Est.		0		
<b>Representing</b>		<b>Print Name</b>		<b>Signature / Date</b>		
Polk County:						
Consultant- <a href="#">ECHO</a> (Firm Initials):		Eric Cordeau				
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
7.1	Utility Kickoff Meeting	LS	1	0	0	DO NOT manually input specific values on this row. This task is computed from the Technical Meetings below.
7.2	Identify Existing Utility Agency Owners (UAOs)	LS	18	1	18	# UAOs within the limits of this project through permit research, field verification, project as built and Sunshine 811 Design Ticket.
7.3	Make Utility Contacts	LS	18	4	72	Send a statutory contact letter and distribute current phase plans to # of UAOs at 30, 60, 90 and 100% (1 hr per UAO contact @ 4 phases/contacts)
7.4	Exception Processing	LS	1	0	0	N/A
7.5	Preliminary Utility Meeting	LS	1	0	0	DO NOT manually input specific values on this row. This line will be automatically computed by the tabulation at the bottom of this tab.
7.6	Individual / Field Meetings	LS	1	14	14	DO NOT manually input specific values on this row. This line will be automatically computed by the tabulation at the bottom of this tab.
7.7	Collect and Review Plans and Data from UAO(s)	LS	18	2	36	Collect UAO marked plans, evaluate for content, accuracy, utility type, material, and size. Provide markups to the EOR for incorporation into the plans. Forward all requests for reimbursement and supporting documentation to the County. # UAOs x 1 hr per UAO at both 30% and 60% (1 hr each phase)
7.8	Subordination of Easements Coordination	LS	1	0	0	N/A - by the County ROW office
7.9	Utility Design Meeting	LS	1	12	12	DO NOT manually input specific values on this row. This line will be automatically computed by the tabulation at the bottom of this tab.
7.10	Review Utility Markups & Work Schedules, and Processing of Schedules & Agreements	LS	18	4	72	Collect and review RGBs and URS for completeness and correctness. Circulate RGBs and URS for review and comment by all discipline EORs. Circulate Final URS for signatures. (2.00 hrs per document, per phase) DRAFT RGBs and DRAFT URS 2.00 hrs x # UAOs at 90% phase FINAL RGBs and FINAL URS 2.00 hrs x # UAOs at 100% phase
7.11	Utility Coordination/Followup	LS	18	2	36	2 hours per UAO to follow up with delinquent UAO's. May include follow-up contact by correspondence or telephone, assisting UAOs with interpreting plans, and assisting with the completion of the utility relocation schedules or agreements to motivate and ensure UAO compliance to complete and return the required documents in accordance with the project schedule.

### Project Activity 7. Utilities (ECHO)

7.12	Utility Constructability Review	LS	18	2	36	Review utility conflict matrix with the EORs for all disciplines. Constructibility review of RGBs with the EOR at 90% or 100% to ensure conflict resolution. Review utility work schedules against plans, determine if there is sufficient time for prior work before contract letting date, and assist the EOR in comparing TTCP phasing for construction compatibility. 1 hr per UAO x # UAOs for RGB conflict resolution 1 hr per UAO x # UAOs for URS construction compatibility		
7.13	Additional Utility Services	LS	1	0	0	Optional Services (S/A)		
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS	1	0	0	Optional Services (S/A if UWHCA is requested by a UAO)		
7.15	Contract Plans to UAO(s)	LS	1	8	8	Send Final S&S Plans to UAOs		
7.16	Certification/Close-Out	LS	1	8	8	Quality assurance check for all utility files and supporting documentation, close out any open review assignments, preparation and submittal of the Utility Certification Letter		
7.17	Other Utilities	LS	1	8	8	Assist the EOR with the review of Utility Permits submitted during design phases		
<b>7. Utilities Total</b>					<b>324</b>			
Technical Meetings		Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	
							<b>Yes / No</b> <i>(drop down box)</i>	<i>Number</i>
	Kickoff (see 7.1)	EA	0	0	0	N/A	Yes	0
	Preliminary Meeting (see 7.5)	EA	0	0	0	N/A	No	0
	Individual UAO Meetings (see 7.6)	EA	4	2	8	Individual meetings with UAOs	Yes	4
	Field Meetings (see 7.6)	EA	1	6	6	Field Review, including travel time	No	0
	Design Meeting (see 7.9)	EA	2	6	12	Utility Coordination Design Meeting with UAOs at 60 or 90%, includes scheduling, agenda and minutes	Yes	2
	Other Meetings <i>(this is automatically added into Utilities Total (cell F27))</i>	EA	4	1	4	Meetings or teleconferences with the consultant design team and/or the County to review project plans, changes, conflict resolution and/or phase submittal reviews.	Yes	4
<b>Total Meetings</b>					<b>30</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>10</b>

**Project Activity 8: Environmental Permits**

Estimator:

Thompson Nursery Extension - Phase 2 Design  
450858-1

Representing	Print Name	Signature / Date
Polk County		
Kimley-Horn and Associates	Jeff Hemphill	

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
<b>Environmental Permits and Environmental Clearances</b>						
8.1	Preliminary Project Research	LS	1	12	12	Review permits, summarize other segments, etc.
<b>Permits</b>						
8.2	<b>Field Work</b>					
8.2.1	Pond Site Alternatives	per pond site	2	4	8	Assumes up to 2 pond sites
8.2.2	Establish Wetland Jurisdictional Lines and Assessments	LS	1	40	40	WL & SHW
8.2.3	Species Surveys	LS	1	266	266	General wildlife survey, FBB survey + report (234 hrs), GT survey (20 hrs)
8.3	Agency Verification of Wetland Data	LS	1	16	16	SWFWMD/USACE
8.4	<b>Complete And Submit All Required Permit Applications</b>					
8.4.1	Complete and Submit All Required Wetland Permit Applications	LS	1	120	120	SWFWMD ERP - Section A, Section C, Section E, environmental narrative, drainage support; USACE - ENG 4345, Environmental Narrative, 200' scale exhibits
8.4.2	Complete and Submit All Required Species Permit Applications	LS	1	0	0	
8.5	Coordinate and Review Dredge and Fill Sketches	LS	1	12	12	Wetland impact plan/dredge and fill sketches
8.6	<b>Complete and Submit Documentation for Coordination and/or USCG Bridge Permit Application</b>					
8.6.1	Prepare and submit required documents for USCG coordination	LS	1	0	0	
8.6.2	Complete and submit USCG Bridge Application	LS	1	0	0	
8.7	Prepare Water Management District or Local Water Control District Right of Way Occupancy Permit Application	LS	1	0	0	
8.8	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	1	0	0	

**Project Activity 8: Environmental Permits**

<b>Task No.</b>	<b>Task</b>	<b>Units</b>	<b>No. of Units</b>	<b>Hours/ Units</b>	<b>Total Hours</b>	<b>Comments</b>
8.9	Prepare USACE Section 408 Application to Alter a Civil Works Project	LS	1	0	0	
8.10	Compensatory Mitigation Plan	LS	1	2	2	Assumes mitigation bank credit purchase
8.11	Mitigation Coordination and Meetings	LS	1	2	2	
8.12	Regulatory Agency Support	LS	1	0	0	
8.13	Other Environmental Permits	LS	1	0	0	
<b>Environmental Clearances, Reevaluations, and Technical Support</b>						
8.14	<b>Technical support to the Department for Environmental Clearances and Reevaluations (use when consultant provides technical support only)</b>					
8.14.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.14.2	Archaeological and Historical Resources	LS	1	0	0	
8.14.3	Section 4(f), 6(f), and ARC	LS	1	0	0	
8.14.4	Wetland Impact Analysis	LS	1	0	0	
8.14.5	Essential Fish Habitat Impact Analysis	LS	1	0	0	
8.14.6	Protected Species and Habitat Impact Analysis	LS	1	0	0	
8.15	<b>Preparation of Environmental Clearances and Reevaluations (use when consultant prepares all documents associated with reevaluation)</b>					
8.15.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.15.2	Archaeological and Historical Resources	LS	1	0	0	
8.15.3	Section 4(f), 6(f), and ARC	LS	1	0	0	
8.15.4	Wetland Impact Analysis	LS	1	0	0	
8.15.5	Essential Fish Habitat Impact Analysis	LS	1	0	0	
8.15.6	Protected Species and Habitat Impact Analysis	LS	1	0	0	
<b>Contamination Analysis</b>						
8.16	Contamination Impact Analysis	LS	1	0	0	
8.17	Asbestos Survey	LS	1	0	0	

**Project Activity 8: Environmental Permits**

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
<b>Environmental Permits and Environmental Clearances/Reevaluations Technical Subtotal</b>					<b>478</b>	
8.18	Technical Meetings	LS	1	34	34	Meetings are listed below
8.19	Quality Assurance/Quality Control	LS	%	7%	33	
8.20	Supervision	LS	%	5%	24	
<b>Environmental Permits and Environmental Clearances Nontechnical Subtotal</b>					<b>91</b>	
8.21	Coordination	LS	%	3%	17	
<b>8. Environmental Permits and Environmental Clearances Total</b>					<b>586</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
WMD	EA	1	2	2	1 preapp for SWFWMD		1
NMFS	EA	0	0	0			0
USACE	EA	1	2	2	1 preapp for USACE		1
USCG	EA	0	0	0			0
USFWS	EA	0	0	0			0
FFWCC	EA	0	0	0			0
Polk County	EA	0	0	0			0
Other Meetings	EA	1	2	2	County progress meetings		1
<b>Subtotal Technical Meetings</b>				<b>6</b>		<b>Subtotal Project Manager Meetings</b>	<b>3</b>
Progress Meetings (if required by Polk County)	EA	14	2	28	Place at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	0	0	0	Phase Review Meetings is manually entered on General Task 3		--
<b>Total Meetings</b>				<b>34</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>3</b>

Carries to 8.18

Carries to Tab 3

**Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings**

Estimator:

Thmopson Nursery Extension - Phase 2 Design  
450858-1

Representing	Print Name	Signature / Date
Polk County		
Kimley-Horn and Associates		

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Units	Design and Production Staffhours				Comments
			No. of Units	Hours per Unit	No. of Sheets	Total	
<b>General Drawings</b>							
9.1	Key Sheet and Index of Drawings	Sheet	1	8	1	8	one bridge
9.2	Project Layout	Sheet	0	0	0	0	
9.3	General Notes and Bid Item Notes	Sheet	2	20	2	40	concrete general notes
9.4	Miscellaneous Common Details	Sheet	1	16	1	16	aesthetic details, SIP forms
9.5	Incorporate Report of Core Borings	Sheet	8	0.5	8	4	
9.6	Standard Plans- Bridges	LS	1	2		2	
9.7	Existing Bridge Plans	LS	1	0		0	
9.8	Structures Quantites for EQ Report	Bridges	2	Calculated Hours 32		34	
		Walls	2				
		Box Culverts	0				
9.9	Cost Estimate	LS	1	0		0	
9.10	Technical Special Provisions and Modified Special Provisions	LS	1	0		0	
<b>Structures - Summary and Miscellaneous Tasks and Drawings</b>					12	104	

Task No.	Task	Total	Task 10	Task 11	Task 12	Task 13	Task 14	Task 15	Task 16	Task 17	Task 18
10-16	Bridge 1	825	344	0	0	481	0	0	0		
10-16	Bridge 2	0									
10-16	Bridge 3	0									
10-16	Bridge 4	0									

**Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings**

10-16	Bridge 5	0									
10-16	Bridge 6	0									
10-16	Bridge 7	0									
10-16	Bridge 8	0									
10-16	Bridge 9	0									
10-16	Bridge 10	0									
17	Retaining Walls	328								328	
18	Miscellaneous Structures	132									132
<b>Structures Technical Subtotal</b>		1285	344	0	0	481	0	0	0	328	132
<b>Task No.</b>	<b>Task</b>	<b>Units</b>	<b>No. of Units</b>	<b>Hours per Unit</b>	<b>Total</b>	<b>Comments</b>					
9.11	Field Reviews	LS	1	24	24	2 field reviews 2 people at 6 hours each = 2*2*6=24					
9.12	Technical Meetings	LS	1	50	50	Meetings are listed below					
9.13	Quality Assurance/Quality Control	LS	%	7%	97						
9.14	Independent Peer Review	LS	1	0	0	n/a					
9.15	Supervision	LS	%	5%	69						
<b>Structures Nontechnical Subtotal</b>					240						
9.16	Coordination	LS	1	92	92	roadway (40hrs) + utility (8) + permit (8) + geotech (16) + bridge hydraulics (20) = 92					
<b>9. Structures - Summary and Miscellaneous Tasks and Drawings</b>					436						

<b>Technical Meetings</b>	<b>Units</b>	<b>No of Units</b>	<b>Hours/ Unit</b>	<b>Total Hours</b>	<b>Comments</b>	<b>PM Attendance at Meeting Required?</b>	<b>Number</b>
BDR Coordination/Review	EA	1	6	6			1
90/100% Comment Review	EA	2	6	12			0
Aesthetics Coordination	EA	0	0	0			0
Regulatory Agency	EA	0	0	0			0
Local Governments (cities, counties)	EA	0	0	0			0
Utility Companies	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
<b>Subtotal Technical Meetings</b>				<b>18</b>			<b>1</b>
Progress Meetings (if required by Polk County)	EA	16	2	32	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		--
<b>Total Meetings</b>				<b>50</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>1</b>

**Project Activity 10: BDR**

Estimator:

Thompson Nursery Extension - Phase 2 Design

Bridge Identifier (Number or Name): TNR over Peace Creek

450858-1

Representing	Print Name	Signature / Date
Polk County		
Kimley-Horn and Associates		

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
<b>General Requirement</b>							
10.1	Bridge Geometry	LS	1	8		8	no skew, straight
10.2	Ship Impact Data Collection	LS	0	0		0	
10.3	Ship Impact Criteria	EA	0	0		0	
<b>Superstructure Alternatives</b>							
10.4	Short Span Concrete Bridge	EA ALT	2	16		32	Flat Slab,FSBs
10.5	Medium Span Concrete Bridge	EA ALT	1	25		25	Prestressed Beams
10.6	Long Span Concrete Bridge	EA ALT	0	0		0	
10.7	Structural Steel Bridge	EA ALT	0	0		0	
<b>Foundation &amp; Substructure Alternatives</b>							
10.8	Pier/Bent	EA Type	2	20		40	single span and multi span option
10.9	Shallow Foundations / GRS Abutments	EA Type	0	0		0	
10.10	Deep Foundations	EA Foundation Evaluated	2	6		12	Steel H-Piles, prestressed concrete piles
<b>Movable Span</b>							
10.11	Data Collection and Design Criteria	LS	1	0		0	
10.12	Movable Span Geometrics and Clearances	LS	1	0		0	
10.13	Deck System Evaluation	LS	1	0		0	
10.14	Framing Plan Development	LS	1	0		0	
10.15	Main Girder Preliminary Design	LS	1	0		0	
10.16	Conceptual Span Balance/Counterweight	LS	1	0		0	

**Project Activity 10: BDR**

<b>Task No.</b>	<b>Task</b>	<b>Units</b>	<b>No of Units</b>	<b>Hours/ Unit</b>	<b>No. of Sheets</b>	<b>Total Hours</b>	<b>Comments</b>
10.17	Support System Development	LS	1	0		0	
10.18	Drive Power Calculations	LS	1	0		0	
10.19	Drive System Development	LS	1	0		0	
10.20	Power and Control Development	LS	1	0		0	
10.21	Conceptual Pier Design	LS	1	0		0	
10.22	Foundation Analysis (FL PIER)	LS	1	0		0	
10.23	Tender Visibility Study	LS	1	0		0	
<b>Other BDR Issues</b>							
10.24	Aesthetics	LS	1	0		0	
10.25	TTCP/Staged Construction Requirements	LS	1	12		12	analysis of TCP
10.26	Constructibility Requirements	LS	1	5		5	
10.27	Load Rating for damaged/widened structures	EA Unit	1	0		0	
10.28	Quantity and Cost Estimates	EA ALT	3	20		60	12 Hours to create, 8 Hours for QC, 5 hours for implementation
10.29	Quantity and Cost Estimates - Movable Span	LS	1	0		0	
10.30	Wall Type Justification	LS	1	0		0	MSE walls to be used
<b>Report Preparation</b>							
10.31	Exhibits	EA SHEET	6	18		108	Separate Plan and Elevation, Typical Section sheets for 3 bridges
10.32	Exhibits - Movable Span	EA SHEET	0	0		0	
10.33	Report Preparation	LS	1	34		34	
10.34	Report Preparation - Movable Span	LS	1	0		0	
10.35	BDR Submittal Package	LS	1	8		8	
<b>10. Structures - Bridge Development Report Total</b>						<b>344</b>	
<b>When ONLY 30% plans are final deliverable, use Task Nos. as shown for applicable bridge types for project Activities 12 thru 16. Staffhours to be negotiated and scaled appropriately.</b>							

**Project Activity 13: Structures- Medium Span Concrete**

Estimator:

Thompson Nursery Extension - Phase 2 Design

Bridge Identifier (Number or Name):TNR over Peace Creek

450858-1

Representing	Print Name	Signature / Date
Polk County		
Kimley-Horn and Associates		

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
<b>General Layout Design and Plans</b>							
13.1	Overall Bridge Final Geometry	LS	1	12		12	straight with normal ends
13.2	Expansion/Contraction Analysis	EA Unit	1	4		4	
13.3	General Plan and Elevation	Sheet	1	40	1	40	mid/high range - semi urban
13.4	Construction Staging	Sheet	2	16	2	32	assumes three total phases, low range
13.5	Approach Slab Plan and Details	Sheet	1	8	1	8	standard
13.6	Miscellaneous Details	Sheet	0	0	0	0	not included
<b>End Bent Design and Plans</b>							
13.7	End Bent Geometry	EA End Bent	2	10		20	Two end bents, normal, no skew
13.8	Wingwall Design and Geometry	EA End Bent	2	4		8	behind mse walls - cheekwalls only
13.9	End Bent Structural Design	EA Design	1	40		40	Beam over pile, min tip analysis, one design for both bents
13.10	End Bent Plan and Elevation	Sheet	2	20	2	40	
13.11	End Bent Details	Sheet	2	14	2	28	assuming one sheet for cross sections and one sheet for cheekwalls
<b>Intermediate Bent Design and Plans</b>							
13.12	Bent Geometry	EA Bent	0	0		0	
13.13	Bent Stability Analysis	EA Design	0	0		0	
13.14	Bent Structural Design	EA Design	0	0		0	
13.15	Bent Plan and Elevation	Sheet	0	0	0	0	
13.16	Bent Details	Sheet	0	0	0	0	
<b>Pier Design and Plans</b>							
13.17	Pier Geometry	EA Pier	0	0		0	
13.18	Pier Stability Analysis	EA Design	0	0		0	
13.19	Pier Structural Design	EA Design	0	0		0	

**Project Activity 13: Structures- Medium Span Concrete**

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
13.20	Pier Plan and Elevation	Sheet	0	0	0	0	
13.21	Pier Details	Sheet	0	0	0	0	
<b>Miscellaneous Substructure Design and Plans</b>							
13.22	Foundation Layout	Sheet	1	18	1	18	
<b>Superstructure Deck Design and Plans</b>							
13.23	Finish Grade Elevation (FGE) Calculation	LS	1	20		20	normal ends, prallel beams
13.24	Finish Grade Elevations	Sheet	2	18	2	36	cross section sheet and plan view
13.25	Bridge Deck Design	EA Section	1	6		6	emperical design
13.26	Bridge Deck Reinforcing and Concrete Quantities	EA Unit	1	10		10	
13.27	Diaphragm Design	EA Section	0	0		0	
13.28	Superstructure Plan	Sheet	1	26	1	26	
13.29	Superstructure Section	Sheet	1	16	1	16	
13.30	Miscellaneous Superstructure Details	Sheet	1	10	1	10	
<b>Reinforcing Bar Lists</b>							
13.3	Preparation of Reinforcing Bar List	Sheet	2	8	2	16	
<b>Continuous Concrete Girder Design</b>							
13.3	Section Properties	LS	1	0		0	
13.3	Material Properties	LS	1	0		0	
13.3	Construction Sequence	EA Unit	0	0		0	
13.4	Tendon Layouts	EA Unit	0	0		0	
13.4	Live Load Analysis	EA Unit	0	0		0	
13.4	Temperature Gradient	EA Unit	0	0		0	
13.4	Time Dependent Analysis	EA Unit	0	0		0	
13.39	Stress Summary	EA Unit	0	0		0	
13.40	Ultimate Moments	EA Unit	0	0		0	
13.4	Ultimate Shear	EA Unit	0	0		0	
13.4	Construction Loading	EA Unit	0	0		0	
13.4	Framing Plan	Sheet	0	0	0	0	

**Project Activity 13: Structures- Medium Span Concrete**

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
13.4	Girder Elevation, including Grouting Plan and Vent Locations	Sheet	0	0	0	0	
13.5	Girder Details	Sheet	0	0	0	0	
13.5	Erection Sequence	Sheet	0	0	0	0	
13.5	Splice Details	Sheet	0	0	0	0	
13.5	Girder Deflections and Camber	Sheet	0	0	0	0	
<b>Simple Span Concrete Design</b>							
13.49	Prestressed Beam	EA Design	4	8		32	assumes four beam designs to account for phased construction and loading
13.50	Prestressed Beam Schedules	Sheet	1	25	1	25	
13.51	Framing Plan	Sheet	0	0	0	0	
<b>Beam Stability</b>							
13.52	Beam/girder stability	EA Unit	1	10		10	
<b>Bearing</b>							
13.53	Bearing pad and bearing plate design	Type/ Span	0	0		0	
13.54	Bearing pad and bearing plate details	Sheet	0	0	0	0	
<b>Load Rating</b>							
13.55	Load Ratings	Per Beam	2	12		24	
<b>13. Structures - Medium Span Concrete Bridge Total</b>					<b>17</b>	<b>481</b>	

**Project Activity 17: Retaining Walls**

Estimator:

Thompson Nursery Extension - Phase 2 Design

450858-1

Representing	Print Name	Signature / Date
Polk County		
Kimley-Horn and Associates		

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
<b>General Requirements</b>							
17.1	Key Sheet	Sheet	1	20	1	20	
17.2	Horizontal Wall Geometry	Per Wall	2	6		12	turn back walls that follow the roadway
<b>Permanent Proprietary Walls</b>							
17.3	Vertical Wall Geometry	Per Wall	2	16		32	turn back walls that follow the roadway
17.4	Semi-Standard Drawings	Sheet	2	6	2	12	
17.5	Wall Plan and Elevations (Control Drawings)	Sheet	2	20	2	40	2 walls - length ~100 LF = 250 each side of crossing
17.6	Details	Sheet	2	16	2	32	
<b>Temporary Proprietary Walls</b>							
17.7	Vertical Wall Geometry	Per Wall	2	12		24	temporary mse walls for elevation of proposed bridge during construction
17.8	Semi-Standard Drawings	Sheet	1	4	1	4	
17.9	Wall Plan and Elevations (Control Drawings)	Sheet	2	16	2	32	
17.10	Details	Sheet	0	0	0	0	
<b>Cast-in-Place Retaining Walls</b>							

**Project Activity 17: Retaining Walls**

<b>Task No.</b>	<b>Task</b>	<b>Unit</b>	<b>No. of Units</b>	<b>Hours/ Unit</b>	<b>No. of Sheets</b>	<b>Total Hours</b>	<b>Comments</b>
17.11	Design	EA Design	0	0		0	
17.12	Vertical Wall Geometry	EA Wall	0	0		0	
17.13	General Notes	Sheet	0	0	0	0	
17.14	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	
17.15	Sections and Details	Sheet	0	0	0	0	
17.16	Reinforcing Bar List	Sheet	0	0	0	0	
<b>Other Retaining Walls and Bulkheads</b>							
17.17	Design	EA Design	2	16		32	temporary sheet pile walls to facilitate construction
17.18	Vertical Wall Geometry	EA Wall	2	8		16	
17.19	General Notes, Tables and Misc. Details	Sheet	2	18	2	36	
17.20	Wall Plan and Elevations	Sheet	2	18	2	36	
17.21	Details	Sheet	0	0	0	0	
<b>17. Structures - Retaining Walls Total</b>					<b>14</b>	<b>328</b>	

**Project Activity 18: Miscellaneous Structures**

Estimator:

Thompson Nursery Extension - Phase 2 Design  
450858-1

Representing	Print Name	Signature / Date
Polk County		
Kimley-Horn and Associates		

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
<b>Concrete Box Culvert</b>							
18.1	Concrete Box Culverts	EA	0	0		0	
18.2	Concrete Box Culverts Extensions	EA Extension	0	0		0	
18.3	Concrete Box Culvert Data Table Plan Sheets	Sheet	0	0	0	0	
18.4	Concrete Box Culvert Special Details Plan Sheets	Sheet	0	0	0	0	
<b>Strain Poles</b>							
18.5	Steel Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
18.6	Concrete Strain Poles	Initial Config	1	18		18	US 27
		EA Add'l Config	2	14		28	temp condition of Lake Ashton and US 27
18.7	Strain Pole Data Table Plan Sheets	Sheet	1	6	1	6	
18.8	Strain Pole Special Details Plan Sheets	Sheet	0	0	0	0	
<b>Mast Arms</b>							
18.9	Mast Arms	EA Design	6	12		72	Lake Ashton Blvd, temp condition of Conser
18.10	Mast Arms Data Table Plan Sheets	Sheet	1	8	1	8	
18.11	Mast Arm Special Details Plan Sheets	Sheet	1	0	1	0	
<b>Overhead/Cantilever Sign Structures</b>							
18.12	Cantilever Sign Structures	EA Design	0	0		0	
18.13	Overhead Span Sign Structures	EA Design	0	0		0	
18.14	Special (Long Span) Overhead Span Sign Structures	EA Design	0	0		0	
18.15	Monotube Overhead Sign Structure	EA Design	0	0		0	
18.16	Bridge Mounted Signs (Attached to Superstr.)	EA Design	0	0		0	
18.17	Overhead and Cantilever Sign Structures Data Table Plan Sheets	Sheet	0	0	0	0	
18.18	Overhead and Cantilever Sign Structures Special Details Plan Sheets	Sheet	0	0	0	0	
<b>High Mast Lighting</b>							
18.19	Non-Standard High Mast Lighting Structures	EA Design	0	0		0	

**Project Activity 18: Miscellaneous Structures**

18.20	High Mast Lighting Special Details Plan Sheets	Sheet	0	0	0	0	
<b>Noise Barrier Walls (Ground Mount)</b>							
18.21	Horizontal Wall Geometry	EA Wall	0	0		0	
18.22	Vertical Wall Geometry	EA Wall	0	0		0	
18.23	Summary of Quantities - Aesthetic Requirements	Sheet	0	0	0	0	
18.24	Control Drawings	Sheet	0	0	0	0	
18.25	Design of Noise Barrier Walls Covered by Standards	EA Design	0	0		0	
18.26	Design of Noise Barrier Walls Not Covered by Standards	EA Design	0	0		0	
18.27	Aesthetic Details	LS	1	0		0	
<b>Special Structures</b>							
18.28	Fender System	LS	1	0		0	
18.29	Fender System Access	LS	1	0		0	
18.30	Special Structures	LS	1	0		0	
18.31	Other Structures	LS	1	0		0	
<b>Ancillary Structures Report</b>							
18.32	Condition Evaluation of Signal and Sign Structures, and High Mast Light Poles	EA structure	0	0	0	0	
18.33	Condition Evaluation of Signal and Sign Structures, and High Mast Light Poles (No As built or Design Plans Available)	EA structure	0	0	0	0	
18.34	Analytical Evaluation of Signal and Sign Structures, and High Mast Light Poles	EA structure	0	0	0	0	
18.35	Ancillary Structures Report	LS	1	0		0	
<b>18. Structures - Miscellaneous Total</b>					<b>3</b>	<b>132</b>	

**Project Activity 19: Signing and Pavement Marking Analysis**

Estimator:

Thompson Nursery Extension - Phase 2 Design  
450858-1

Representing	Print Name	Signature / Date
Polk County		
Kimley-Horn and Associates		

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Units	No. of Units	Hours/Units	Total Hours	Comments
19.1	Traffic Data Analysis	LS	1	0	0	N/A
19.2	No Passing Zone Study	LS	1	0	0	N/A
19.3	Signing and Pavement Marking Master Design File	LS	1	330	330	[45 hours (setup) + 90 hours/mile x 2.90 miles] + 8hrs x 3 signalized intersections (Lake Ashton, Conservation Way, US Hwy 27) = 330 hours
19.4	Multi-Post Sign Support Calculations	EA	6	3	18	3 hours x 6 signs (next signal -EB & WB approach Lake Ashton, EB & WB approach Conservation Way, EB & WB approach US Hwy 27 ) = 18 hours
19.5	Sign Panel Design Analysis	EA	3	3	9	3 hours x 3 signs = 9 hours (Lake Ashton, Conservation Way, US Hwy 27)
19.6	Sign Lighting/Electrical Calculations	EA	0	0	0	N/A
19.7	S&PM Quantities for EQ Report	Length (Miles)	2.90	Calculated Hours	28	2.90 miles = 15,312 feet 20 hours (first 5,280 feet) + 4 hour (each additional 5,280 feet) = 28 hours
		Complexity	Mid Range			
		Interchanges Rest Areas	0			
19.8	Cost Estimate	LS	1	20	20	5 hours x 4 EEs (60%, 90%, 100%, Final) = 20 hours
19.9	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	N/A
19.10	Other Signing and Pavement Marking	LS	1	30	30	Multipost documentation (6 x 5 hours = 30 hours). To be submitted at 60% submittal. Assume no conceptual signing plan included
<b>Signing and Pavement Marking Analysis Technical Subtotal</b>					<b>435</b>	
19.11	Field Reviews	LS	1	14	14	2 people per trip x (3 hours travel + 4 hour site visit) x 1 trip = 14 hours
19.12	Technical Meetings	LS	1	12	12	Meetings are listed below
19.13	Quality Assurance/Quality Control	LS	%	7%	30	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	5%	22	

**Project Activity 19: Signing and Pavement Marking Analysis**

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
<b>Signing and Pavement Marking Analysis Nontechnical Subtotal</b>					<b>78</b>	
19.16	Coordination	LS	%	3%	15	
<b>19. Signing and Pavement Marking Analysis Total</b>					<b>528</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Sign Panel Design	EA	0	0	0	N/A		0
Queue Length Analysis	EA	0	0	0	N/A		0
Local Governments (cities, counties)	EA	2	6	12	Polk County Traffic (2 hrs meeting + 1 hrs prep/summary + 3 hours travel roundtrip)		2
Other Meetings	EA	0	0	0	N/A		0
<b>Subtotal Technical Meetings</b>				<b>12</b>	<b>Subtotal Project Manager Meetings</b>		<b>2</b>
Progress Meetings (if required by Polk County)	EA	18	1	18	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	0	0	0	General Task 3		--
<b>Total Meetings</b>				<b>30</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>2</b>

Carries to 19.12

Carries to Tab 3

Representing	Print Name	Signature / Date
Polk County		
Kimley-Horn and Associates		

*NOTE: Signature Block is optional, per District preference*

Task No.	Task	Project Parameter			Staff Hours				Documentation
		Description	Units	Complexity	Calculated	Department	Consultant	Negotiated	Provide documentation when negotiated hours differ from the calculated hours.
20.1	Key Sheet		1		4	0	0	4	Key Map included
	Signature Sheet		0		0	0	0	0	N/A. EOR signature included on Key Sheet
20.2	General Notes/Pay Item Notes		1	Standard	9	0	0	9	Polk County Notes
20.3	Project Layout		0		0	0	0	0	N/A
20.4	Plan Sheet	Sheet(s)	30	Mid	120	0	0	120	30 plan sheets 1" = 50' scale (27 Thompson Nursery + 1 sheet Chalet Suzanne Connection, 2 sheets US Hwy 27) 700 ft/sheet
		Sig Intersection Mid-Block Xing	0		0	0	0	0	
		Interchange Roundabout	0		0	0	0	0	
		Rest Area Toll Facility	0		0	0	0	0	N/A
20.5	Special Details	Details	0	Simple	0	0	0	0	
			1	Standard	4	0	0	4	Concrete pavement marking detail
			0	Complex	0	0	0	0	
20.6	Service Point Details	Service Point	0	Simple	0	0	0	0	N/A
			0	Standard	0	0	0	0	N/A
20.7	Guide Sign Data	Sign Panel	3		6	0	0	6	3 "Next Signal" signs (Lake Ashton, Conservation Way, US Hwy 27)
20.8	Cross Sections (Sign Installations)	Multi-post signs	6		18	0	0	18	6 signs (next signal -EB & WB approach Lake Ashton, EB & WB approach Conservation Way, EB & WB approach US Hwy 27)
		Overhead Sign Structures	0	Standard	0	0	0	0	
			0	Complex	0	0	0	0	
<b>S&amp;PM Plans Technical Hours Subtotal</b>					<b>161</b>	<b>0</b>	<b>0</b>	<b>161</b>	
20.9	Quality Assurance/Quality Control	%	1	5%	9	0	0	9	
20.10	Supervision	%	1	5%	9	0	0	9	
<b>S&amp;PM Plans Total</b>					<b>179</b>	<b>0</b>	<b>0</b>	<b>179</b>	

Carries to Summary Tab

**Project Activity 21: Signalization Analysis**

Estimator:

Thompson Nursery Extension - Phase 2 Design  
450858-1

Representing	Print Name	Signature / Date
Polk County		
Kimley-Horn and Associates		

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
21.1	Traffic Data Collection	LS	1	0	0	N/A
21.2	Traffic Data Analysis	PI	0	0	0	N/A
21.3	Signal Warrant Study	LS	1	0	0	N/A
21.4	System Timings	LS	1	0	0	N/A
21.5	Reference and Master Signalization Design File	PI	3	38	114	3 signalized intersections (Lake Ashton, Conservation Way, US Hwy 27) <b>*West Lake Ruby will be signalized under segment 4</b> (Conservation way is being designed by the developer; to be modified under
21.6	Reference and Master Interconnect Communication Design File	LS	1	77.6	78	8 hours (setup) + 24 hours/mile x 2.90 miles = 77.6 hours
21.7	Overhead Street Name Sign Design	EA	14	3	42	14 signs Lake Ashton (2 signs), US Hwy 27 (4 signs), Thompson Nursery (8 signs) Including address numbers
21.8	Pole Elevation Analysis	LS	1	4	4	2 hours (first intersection) + 1 hour (1 additional intersection) 3 intersections (Lake Ashton, Conservation Way, US Hwy 27)
21.9	Traffic Signal Operation Report	LS	1	0	0	N/A
21.10	Signalization Quantities for EQ Report	Signalized Intersections	3	Calculated Hours 28	32	20 hours (first intersection) + 4 hours (2 additional intersection) + 4 hours (EQ) = 32 hours
21.11	Cost Estimate	LS	1	0	0	
21.12	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
21.13	Other Signalization Analysis	LS	1	0	0	
<b>Signalization Analysis Technical Subtotal</b>					<b>270</b>	

**Project Activity 21: Signalization Analysis**

21.14	Field Reviews	LS	2	14	28	2 people per trip x (3 hours travel + 4 hour site visit) x 2 trips = 28 hours
21.15	Technical Meetings	LS	1	46	46	Meetings are listed below
21.16	Quality Assurance/Quality Control	LS	%	7%	19	
21.17	Independent Peer Review	LS	%	0%	0	
21.18	Supervision	LS	%	0%	0	
<b>Signalization Analysis Nontechnical Subtotal</b>					<b>93</b>	
21.19	Coordination	LS	%	5%	18	811/Utility Coordination
<b>21. Signalization Analysis Total</b>					<b>381</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Polk County Traffic Operations	EA	0	0	0			0
Polk County Traffic Design	EA	0	0	0			0
Power Company (service point coordination)	EA	2	8	16	1 virtual meeting (2 hrs meeting + 2 hrs prep/summary) 1 field meeting (3 hours travel + 1 hour site visit + 2 hrs prep/summary x 2 people)		2
Maintaining Agency (cities, counties)	EA	2	6	12	Polk County Traffic (2 hrs meeting + 1 hrs prep/summary + 3 hours travel roundtrip)		2
Railroads	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
<b>Subtotal Technical Meetings</b>				<b>28</b>		<b>Subtotal Project Manager Meetings</b>	<b>4</b>
Progress Meetings (if required by Polk County and FDOT)	EA	18	1	18	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		--
<b>Total Meetings</b>				<b>46</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>4</b>

Carries to 21.15

Carries to Tab 3

Estimator:

## 22. Signalization Plans Staff Hours

Thompson Nursery Extension - Phase 2 Design  
450858-1

Representing	Print Name	Signature / Date
Polk County		
Kimley-Horn and Associates		

*NOTE: Signature Block is optional, per District preference*

Task No.	Task	Project Parameter			Staff Hours				Documentation
		Description	Units	Complexity	Calculated	Department	Consultant	Negotiated	
<b>What is the overall project complexity? (See Signalization Guidelines)</b>				<b>Mid</b>					Provide documentation when negotiated hours differ from the calculated hours.
22.1	Key Sheet		1		4	0	0	4	
	Signature Sheet		1		2	0	0	2	
22.2	General Notes/Pay Item Notes		1	Standard	9	0	0	9	
22.3	Signalization Plan Sheets	Signalized Intersections	3	Mid	12	0	0	12	
22.4	Interconnect Plan Sheets	Sheet(s)	11	Mid	44	0	0	44	11 Plan Sheets (15,312 feet /1400 feet per sheet)
22.5	Traffic Monitoring Site	Sites (Loop Detect.)	0		0	0	0	0	
		Sites (Other Detect.)	0		0	0	0	0	
22.6	Guide Sign Data	Sign Panel	14		28	0	0	28	14 signs Lake Ashton (2 signs), US Hwy 27 4 signs), Thompson Nursery (8 signs) <i>including address numbers</i>
22.7	Special Details	Details	0	Simple	0	0	0	0	
			6	Standard	12	0	0	12	3 intersection corner details with pedestrian detail
			3	Complex	12	0	0	12	2 plan sheets (FDOT D1 emergency use) 3 plan sheets (FDOT D1 clearance calculation plan sheet for 3 intersections)
22.8	Service Point Details	Service Point	0	Simple	0	0	0	0	
			0	Standard	0	0	0	0	
22.9	Mast Arm / Monotube Data	Signal Arm	7	Single Mast Arm	7	0	0	7	3 arms @ Lake Ashton, 4 arms at Conservation Way (Conservation way is being designed by the developer, to be modified under TNR phase II)

			0	Double Mast Arm	0	0	0	0	
22.10	Strain Pole Schedule	Span	4		8	0	0	8	4 Strain Poles @ US 27
22.11	TTCP Signal	Intersections w/o ped signal	0	Mid	0	0	0	0	
		Intersections with ped signal	4	Mid	96	0	0	96	2 TTC phases per signalized intersection x 2 intersections = 4 total designs
22.12	Temporary Detection Sheet	Intersections	0		0	0	0	0	
<b>Signalization Plans Technical Hours Subtotal</b>					<b>234</b>	<b>0</b>	<b>0</b>	<b>234</b>	
20.13	Quality Assurance/Quality Control	%	1	5%	12	0	0	12	
20.14	Supervision	%	1	5%	12	0	0	12	
<b>Signalization Plans Total</b>					<b>258</b>	<b>0</b>	<b>0</b>	<b>258</b>	

**Project Activity 23: Lighting Analysis**

Estimator:

Thompson Nursery Extension - Phase 2 Design

450858-1

Representing	Print Name	Signature / Date
Polk County		
Kimley-Horn and Associates		

**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 (LDAR)	LS	1	30	30	Three (3) Signalized Intersections @ 10 hrs each = 30 hrs
23.3	Voltage Drop Calculations	EA	3	3	9	Three (3) New Circuits @ 3 hrs each = 9 hrs
23.4	FDEP Coordination and Report	LS	0	0	0	N/A
23.5	Reference and Master Design Files	LS	1	45	45	Three (3) Signalized Intersections @ 15 hrs each = 45 hrs
23.6	Temporary Highway Lighting	LS	0	0	0	N/A
23.7	Design Documentation	LS	0	0	0	N/A
23.8	Lighting Quantities for EQ Report	Light Poles	24	Calculated Hours 28	28	Assume 9 light poles per full signalized intersection @ 2 signalized intersections = 18 poles Assume 6 light poles per signalized T-intersection @ 1 signalized intersections = 6 poles 0.5 hr per pole after 8 = 8 additional hours + 20 hrs base
23.9	Cost Estimate	LS	1	16	16	our (4) submittals (60%, 90%, 100%, Final) @ 4 hrs per submittal = 16 h
23.10	Technical Special Provisions and Modified Special Provisions	LS	0	0	0	N/A
23.11	Other Lighting Analysis	LS	0	0	0	N/A
<b>Lighting Analysis Technical Subtotal</b>					<b>128</b>	
23.12	Field Reviews	LS	2	8	16	reviews @ 8 hrs each = 2 hrs travel time + 3 hr site visit x 2 people per

**Project Activity 23: Lighting Analysis**

23.13	Technical Meetings	LS	1	20	20	
23.14	Quality Assurance/Quality Control	LS	%	7%	9	
23.15	Independent Peer Review	LS	%	0%	0	
23.16	Supervision	LS	%	5%	6	
<b>Lighting Analysis Nontechnical Subtotal</b>					<b>51</b>	
23.17	Coordination	LS	%	3%	5	
<b>23. Lighting Analysis Total</b>					<b>184</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance	Number
Polk County Lighting Design	EA	0	0	0	N/A		0
Polk County Traffic Design	EA	0	0	0	N/A		0
Power Company (service point coordination)	EA	4	3	12	4 meetings with Power Company: 2 virtual, 2 field -Virtual meeting: 2 hrs -Field Meeting: 4 hrs		4
Maintaining Agency (cities, counties)	EA	4	2	8	4 meetings with Polk County @ 2 hrs each		4
Airport authority	EA	0	0	0	N/A		0
FDEP Lighting (coast areas)	EA	0	0	0	N/A		0
Other Meetings	EA	0	0	0	N/A		0
<b>Subtotal Technical Meetings</b>				<b>20</b>	<b>Subtotal Project Manager Meetings</b>		<b>8</b>
Progress Meetings (if required by Polk County)	EA	0	0	0	Attendance at Progress Meetings is manually entered on General Ledger		--
Phase Review Meetings	EA	0	0	0	Attendance at Phase Review Meetings is manually entered on General Ledger		--
<b>Total Meetings</b>				<b>20</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>8</b>

Carries to 23.13

Carries to Tab 3

Estimator:

**24. Lighting Plans Staff Hours**

Thompson Nursery Extension - Phase 2 Design  
450858-1

Representing	Print Name	Signature / Date
Polk County		
Kimley-Horn and Associates		

*NOTE: Signature Block is optional, per District preference*

Task No.	Task	Project Parameter			Staff Hours				Documentation
		Description	Units	Complexity	Calculated	Department	Consultant	Negotiated	Provide documentation when negotiated hours differ from the calculated hours.
24.1	Key Sheet		1		4	0	0	4	One (1) sheet @ 4 hrs
	Signature Sheet		0		0	0	0	0	
24.2	General Notes/Pay Item Notes		1	Standard	9	0	0	9	One (1) sheet @ 9 hrs
24.3	Pole Data, Legend and Criteria	Poles	24		10	0	0	10	One (1) sheet @ 11 hrs, less than 50 poles
24.4	Project Layout		0		0	0	0	0	
24.5	Plan Sheets (Corridor Projects)	Sheet(s)	0		0	0	0	0	
	Plan Sheets (Isolated Locations)	Intersections or Mid-Blocks	3		12	0	0	12	Three (3) plan sheets @ 4 hrs each
		Interchanges or Rest Areas	0		0	0	0	0	
24.6	Special Details	Details	0	Simple	0	0	0	0	
			0	Standard	0	0	0	0	
			1	Complex	12	0	0	12	One (1) sheet @ 12 hrs - riser diagram for TECO coordination
24.7	Service Point Details	Service Point	0	Simple	0	0	0	0	
			3	Standard	36	0	0	36	Three (3) service point details, one (1) per signalized intersection @ 12 hrs each
			0	Complex	0	0	0	0	
24.8	Temporary Highway Lighting		0		0	0	0	0	
<b>Lighting Plans Technical Hours Subtotal</b>					<b>83</b>	<b>0</b>	<b>0</b>	<b>83</b>	
24.9	Quality Assurance/Quality Control	%	1	5%	5	0	0	5	
24.10	Supervision	%	1	5%	5	0	0	5	
<b>Lighting Plans Total</b>					<b>93</b>	<b>0</b>	<b>0</b>	<b>93</b>	

Carries to Summary Tab

## Project Activity 27b. Survey (SUE) (ECHO)

Estimator: Jerry Comellas, Jr., PE, ECHO UES :(Drop down box)

Thompson Nursery Road from W. Lake Ruby Dr. to the US 27 (Design Segment 5)

### Consultant's Pre-Negotiation Est.

0

Representing		Print Name							Signature / Date	
Polk County										
Consultant-ECHO (Firm Initials)		Jerry Comellas, Jr., PE								
Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.1	Horizontal Project Control (HPC)									<b>THIS TAB IS FOR SURVEY (SUE) ONLY . SEE "27a. Survey (Non-SUE)" tab for all other Survey Tasks.</b>
	2-Lane Roadway	Mile			0.00		0.00		0.00	
	Multi-lane Roadway	Mile			0.00		0.00		0.00	
	Interstate	Mile			0.00		0.00		0.00	
27.2	Vertical PC / Bench Line									Update distribution percentages on lower half of "Staff-Hour Summary - Grand Total" tab.
	2-Lane Roadway	Mile			0.00		0.00		0.00	
	Multi-lane Roadway	Mile			0.00		0.00		0.00	
	Interstate	Mile			0.00		0.00		0.00	
27.3	Alignment and Existing R/W Lines									
		Mile			0.00		0.00		0.00	
27.4	Aerial Targets			Units/Day						
	2-Lane Roadway	EA			0.00		0.00		0.00	
	Multi-lane Roadway	EA			0.00		0.00		0.00	
	Interstate	EA			0.00		0.00		0.00	
27.5	Reference Points	"A"		Units/Day						
	2-Lane Roadway	EA			0.00		0.00		0.00	
	Multi-lane Roadway	EA			0.00		0.00		0.00	
	Interstate	EA			0.00		0.00		0.00	
	Reference Points	"B"		Units/Day						
	Non Alignment Points/Approximate	EA			0.00		0.00		0.00	
27.6	Topography/DTM (3D)									
		Mile			0.00		0.00		0.00	
27.7	Planimetric (2D)									
		Mile			0.00		0.00		0.00	
27.8	Roadway Cross-Sections/Profiles									
		Mile			0.00		0.00		0.00	

### Project Activity 27b. Survey (SUE) (ECHO)

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments	
27.9	Side Street Surveys										
		Mile			0.00		0.00		0.00		
27.10	<b>Underground Utilities</b>									<p><b>Designating (Toneable-SUE QL B):</b> Horizontally locate all existing, toneable and non-toneable, underground utilities within the Thompson Nursery Rd. project limits in order to appropriately address design elements (i.e. mast arm signal foundations, light pole foundations, bridge foundations, and drainage structures) that may conflict with the existing underground utilities = <b>174,240 LF (33.0 miles) of underground utilities.</b></p> <p><b>Locating (Potential Utility Conflicts-SUE QLA):</b> Horizontally and Vertically locate existing underground utilities on the designated utilities as requested by the prime consultant and where potential utility conflicts with the following proposed design elements, utilizing vacuum excavation equipment</p> <ul style="list-style-type: none"> <li>- 24 light pole foundations x 2THs/foundation = 48THs</li> <li>- 10 mast arm foundations x 5THs/foundation = 50THs</li> <li>- 95 drainage structures x 2THs/structure = 190THs</li> <li>- 1 Bridge crossing = 20THs</li> </ul> <p style="text-align: center;"><b>TOTAL = 308 test holes</b></p> <p><b>Surveying:</b> Survey and map all designated and located existing underground utilities.</p>	
		Designates	Mile/Site	33.0	1.320	43.56	2.00	87.12	3.00		130.68
		Locates	Point	308	0.125	38.50	1.00	38.50	2.00		77.00
		Survey	%	25%	82.0600	20.52	2.00	41.04	3.00		61.56
SUE Sub-total:					102.58						
27.11	Outfall Survey										
		Mile			0.00		0.00		0.00		
27.12	Drainage Survey			Units/Day							
		EA			0.00		0.00		0.00		
27.13	Bridge Survey										
	Minor / Major	EA			0.00		0.00		0.00		
27.14	Channel Survey										
		EA			0.00		0.00		0.00		
27.15	Pond Site Survey										
		EA			0.00		0.00		0.00		
27.16	Mitigation Survey										
		Mile			0.00		0.00		0.00		
27.17	Jurisdiction Line Survey										
		Mile			0.00		0.00		0.00		
27.18	Geotechnical Support			Units/Day							
		EA			0.00		0.00		0.00		

### Project Activity 27b. Survey (SUE) (ECHO)

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.19	Sectional / Grant Survey									
		Corner			0.00		0.00		0.00	
		Mile			0.00		0.00		0.00	
27.20	Subdivision Location									
		Block			0.00		0.00		0.00	
27.21	Maintained R/W									
		Mile			0.00		0.00		0.00	
27.22	Boundary Survey									
		EA			0.00		0.00		0.00	
27.23	Water Boundary Survey									
		EA			0.00		0.00		0.00	
27.24	R/W Staking / R/W Line									
		EA			0.00		0.00		0.00	
		Mile			0.00		0.00		0.00	
27.25	R/W Monumentation									Usually authorized as a post-construction Optional Service. If so, exclude it from original contract estimates and negotiations documentation, or keep on separate forms.
		Point			0.00		0.00		0.00	
27.26	Line Cutting									
		Mile			0.00					
27.27	Work Zone Safety					Conversions				
	Designates		43.56	0.1250	5.4450	= 43.56 hr.	= 2614 min.			
	Locates		38.50	0.1250	4.8100	= 38.48 hr.	= 2309 min.			
	Survey		20.52	0.1250	2.5700	= 20.56 hr.	= 1234 min.			
SUE Sub-total:			102.58		12.8250	Total Work Zone Safety				
27.28	Miscellaneous Surveys									
					0.00		0.00		0.00	
<b>27b. Survey (SUE Sub-total)</b>				Crew Days (Designate)	<b>49.01</b>	Field Support Hours	<b>87.12</b>	Office Support Hours	<b>130.68</b>	Crew Days (Designate) @ ( 43.56 ) + Work Zone Safety @ ( 5.445 ) = 49.01 Crew Days
				Crew Days (Locates)	<b>43.31</b>		<b>38.50</b>		<b>77.00</b>	Crew Days (Locates) @ ( 38.5 ) + Work Zone Safety @ ( 4.81 ) = 43.31 Crew Days
				Crew Days (Survey)	<b>23.09</b>		<b>41.04</b>		<b>61.56</b>	Crew Days (Survey) @ ( 20.52 ) + Work Zone Safety @ ( 2.57 ) = 23.09 Crew Days
				(Work Zone Safety, Check)	12.83	Check:	166.66	Check:	269.24	Check, Sub-total Survey Days= 115.41 (Not Rounded)

### Project Activity 27b. Survey (SUE) (ECHO)

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.29	Supplemental Surveys									THE % FOR SUPPLEMENTAL WILL BE DETERMINED AT NEGOTIATIONS. THIS ITEM CAN ONLY BE USED IF AUTHORIZED IN WRITING BY THE DISTRICT LOCATION SURVEYOR AND / OR HIS DESIGEE.
	Designate		0%	49.01	0.00		0.00		0.00	
	Locates		0%	43.31	0.00		0.00		0.00	
	Survey		0%	23.09	0.00		0.00		0.00	
27.30	Document Research	Units								Vvh Table
			16.00						16.00	
27.31	Field Reviews	Units								
			0.00						0.00	
27.32	Technical Meetings	LS								Phase II Plans review to confirm test holes to be performed
			1.00						1.00	
27.33	Quality Assurance / Quality Control	LS						5%	13.46	
27.34	Supervision	LS						5%	22.65	
27.35	Coordination	LS						3%	8.08	
<b>27b. Survey (SUE) Total</b>				Crew Days (Designate)	<b>49.0</b>	Field Support Hours	<b>167</b>	Office Support Hours	<b>330</b>	
				Crew Days (Locates)	<b>43.3</b>					
				Crew Days (Survey)	<b>23.1</b>					
<b>Total Hours (Field &amp; Office Support)=</b>									<b>497</b>	Field + Office Support= 497

### Project Activity 27b. Survey (SUE) (ECHO)

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
Technical Meetings		Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required? <small>(drop down box (Yes / No))</small>		Number	Comments	
	Kickoff Meeting with FDOT	EA	0	0	0	No		0	Columns D and E are for meetings for technical staff.	
	Baseline Approval Review	EA	0	0	0	No		0	"	
	Network Control Review	EA	0	0	0	No		0	"	
	Vertical Control Review	EA	0	0	0	No		0	"	
	Local Governments (cities, counties)	EA	0	0	0	No		0	"	
	Final Submittal Review	EA	0	0	0	No		0	"	
	Other Meetings	EA	0	0	0	No		0	"	
<b>Subtotal Technical Meetings</b>					<b>0</b>	<b>Subtotal PM Meetings</b>		<b>0</b>		
	Progress Meetings (if required by FDOT)	EA	0	0	0	**		--	** Project Manager attendance at progress, phase and field review meetings are manually entered on General Task 3	
	Phase Review Meetings	EA	1	1	1	**		--	Phase II Plans review to confirm test holes to be performed	
<b>Total Meetings</b>			<b>Carries to 27.32=</b>		<b>1</b>	<b>Total PM Mtgs (carries to Tab 3)=</b>		<b>0</b>		

### 35. Geotechnical

Estimator:

Thompson Nursery Extension - Phase 2 Design  
450858-1

Representing	Print Name	Signature / Date
FDOT District		
Imperial Testing and Engineering, Inc.		

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
	<b>Roadway</b>					
35.1	Document Collection and Review	LS	1	8	8	Approximately 15,000 LF new extension; review maps and review previous geotech data
35.2	Develop Detailed Boring Location Plan	LS	1	4	4	Roadway: Perform 5' hand auger every 100 ft with every 5th hand auger to 15' with a total of 159 borings and 5 pavement cores Ponds/FPCs: 10 total sites (6 ponds and 4 FPC); perform a total of 27 SPT's to 15'
35.3	Stake Borings/Utility Clearance	Boring	12	0.4	5	see 35.2
35.4	Muck Probing	Crew Day	68	0.5	34	
35.5	Coordinate and Develop MOT Plans for Field Investigation	EA	1	4	4	anticipate MOT for 5 pavement cores
35.6	Drilling Access Permits	Location	2	1	2	ROW permits anticipated to be needed
35.7	Property Clearances	EA	12	1	12	Coordination at multiple locations
35.8	Groundwater Monitoring	EA	0	0	0	
35.9	LBR/Resilient Modulus Sampling	EA	6	1	6	
35.10	Coordination of Field Work	100 lf of boring	12	1.5	18	rounded up to nearest whole number (1155 lf spt borings /100lf = 11.55)
35.11	Soil and Rock Classification - Roadway	100 lf of boring	12	2	24	rounded up to nearest whole number (1155 lf spt borings /100lf = 11.55)
35.12	Design LBR	LS	1	1	1	6 LBR's
35.13	Laboratory Data	100 lf of boring	12	0.75	9	rounded up to nearest whole number (1155 lf spt borings /100lf = 11.55)
35.14	Seasonal High Water Table	Boring	41	0.5	21	

### 35. Geotechnical

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.15	Parameters for Water Retention Areas	EA	10	2	20	10 total stormwater sites
35.16	Delineate Limits of Unsuitable Material	Cross-section	25	1	25	
35.17	Electronic Files for Cross-Sections	100 lf of boring	12	1.5	18	rounded up to nearest whole number (1155 lf spt borings /100lf = 11.55)
35.18	Embankment Settlement and Stability	Embankment Boring	0	0	0	
35.19	Monitor Existing Structures	LS	1	0	0	
35.20	Stormwater Volume Recovery and/or Background Seepage Analysis	EA	0	0	0	Duplication of Drainage Effort?
35.21	Geotechnical Recommendations	LS	1	24	24	
35.22	Pavement Condition Survey and Pavement Evaluation Report	LS	1	5	5	5 Pavement core locations
35.23	Preliminary Roadway Report	LS	1	16	16	
35.24	Final Report	EA	1	16	16	
35.25	Auger Boring Drafting	100 lf boring	2	4	8	rounded up to nearest whole number (159 lf hand augers/100lf = 1.59)
35.26	SPT Boring Drafting	100 lf boring	12	5	60	rounded up to nearest whole number (1155 lf spt borings /100lf = 11.55)
<b>Roadway Geotechnical Subtotal</b>					<b>340</b>	
<b>Structures</b>						
35.27	Develop Detailed Boring Location Plan	LS	1	1	1	Signals: Perform a total of 10 SPT boring to 25' each at 10 locations Bridge: Perform 4 SPT borings to 125' on each side of the bridge location
35.28	Stake Borings/Utility Clearance	Boring	14	0.2	3	
35.29	Coordinate and Develop MOT Plans for Field Investigation	EA	1	4	4	
35.30	Drilling Access Permits	Location	0	0	0	
35.31	Property Clearances	EA	0	0	0	

### 35. Geotechnical

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.32	Collection of Corrosion Samples	EA	10	0.5	5	
35.33	Coordination of Field Work	100 lf of boring	12	0.5	6	
35.34	Soil and Rock Classification - Structures	100 lf of boring	12	2	24	
35.35	Tabulation of Laboratory Data	100 lf of boring	12	0.75	9	
35.36	Estimate Design Groundwater Level for Structures	EA	4	0.5	2	4 bridge borings
35.37	Selection of Foundation Alternatives (BDR)	Bridge boring	4	4	16	4 bridge borings
35.38	Detailed Analysis of Selected Foundation Alternate(s)	Bridge boring	4	8	32	See Basis for reducing by 35.35
35.39	Bridge Construction and Testing Recommendations	Bridge boring	4	2	8	
35.40	Lateral Load Analysis (Optional)	Bridge boring	0	0	0	
35.41	Walls	Wall Boring	0	0	0	
35.42	Sheet Pile Wall Analysis (Optional)	Wall Boring	0	0	0	
35.43	Design Soil Parameters for Signs, Signals, High Mast Lights, and Strain Poles and Geotechnical Recommendations	Boring	10	1	10	
35.44	Box Culvert Analysis	EA	1	4	4	
35.45	Preliminary Report - BDR	EA	1	16	16	
35.46	Final Report - Bridge and Associated Walls	EA	0	0	0	
35.47	Final Reports - Signs, Signals, Box Culvert, Walls and High Mast Lights	EA	1	16	16	
35.48	SPT Boring Drafting	100 lf of boring	14	4	56	
35.49	Other Geotechnical	LS	1	0	0	
<b>Structural Geotechnical Subtotal</b>					<b>212</b>	
<b>Geotechnical Technical Subtotal</b>					<b>552</b>	

**35. Geotechnical**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.50	Technical Special Provisions and Modified Special Provisions	EA	0	0	0	
35.51	Field Reviews	LS	1	16	16	
35.52	Technical Meetings	LS	1	7	7	Meetings listed below
35.53	Quality Assurance/Quality Control	LS	%	5%	28	
35.54	Supervision	LS	%	5%	28	
<b>Geotechnical Nontechnical Subtotal</b>					<b>79</b>	
35.55	Coordination	LS	%	2%	13	
<b>35. Geotechnical Total</b>					<b>644</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Kickoff Meeting with FDOT	EA	1	1	1			0
Boring Layout Approval	EA	0	0	0			0
Attend in BDR Review Meeting	EA	0	0	0			0
30/60/90% Submittal Review	EA	0	0	0			0
Other Meetings	EA	3	2	6			0
<b>Subtotal Technical Meetings</b>				<b>7</b>	<b>Subtotal Project Manager Meetings</b>		<b>0</b>
Progress Meetings (if required by FDOT)	EA	0	0	0	ndance at Progress Meetings is manually entered on General		-
Phase Review Meetings	EA	0	0	0	ance at Phase Review Meetings is manually entered on General		-
<b>Total Meetings</b>				<b>7</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>0</b>

Carries to 35.52

Carries to Tab 3



**GEOTECHNICAL FIELD EXPLORATION**

Description of Work	QTY.	Rate	Unit	Amount
Mobilization of Crew and Equipment - Drill Rig	3	\$500.00	per week	\$1,500.00
Mobilization of Crew and Equipment - Water Trailer	10	\$150.00	per day	\$1,500.00
Mobilization of Crew and Equipment - Coring Trailer	1	\$200.00	per day	\$200.00
Mobilization of Crew and Equipment - Senior Tech and Field Tech	16	\$132.50	per hour	\$2,120.00
Mobilization of Crew and Equipment - Senior Tech	4	\$165.00	per hour	\$660.00
Hand Auger Borings	159	\$100.00	each	\$15,900.00
Hand Auger Borings for Muck Probes	68	\$100.00	each	\$6,800.00
Standard Penetration Test Borings (0-50 ft)	855	\$16.50	per foot	\$14,107.50
Standard Penetration Test Borings (50-100 ft)	200	\$19.50	per foot	\$3,900.00
Standard Penetration Test Borings (>100 ft)	100	\$26.00	per foot	\$2,600.00
Grouting for 2-inch Borehole Diameter	750	\$7.00	per foot	\$5,250.00
Seasonal High Water Table	41	\$50.00	each	\$2,050.00
Asphalt Cores	2	\$40.00	each	\$80.00
Asphalt Cores Night Time OT	3	\$60.00	each	\$180.00
Drill Crew Time - 2 person crew	4	\$150.00	per hour	\$600.00
Drill Crew Time - 2 person crew Night Time OT	4	\$225.00	per hour	\$900.00
Standby Time	22	\$325.00	per hour	\$7,150.00
Oversight Report	1	\$75.00	each	\$75.00
Oversight Report Overtime	1	\$112.50	each	\$112.50
MOT- Signs and Cones	3	\$250.00	per day	\$750.00
MOT-Flagger	24	\$90.00	each	\$2,160.00
MOT- Mobile Variable Message Sign	2	\$60.00	each	\$120.00
MOT- Support Truck with Arrow Panel	24	\$100.00	each	\$2,400.00
MOT - Night Time Lane Closure	1	\$4,828.00	total	\$4,828.00
Obtain ROW permit	2	\$355.00	each	\$710.00
Utility Locate for ROW permit	16	\$75.00	each	\$1,200.00
<b>Total</b>				<b>\$77,853.00</b>



### GEOTECHNICAL LABORATORY TESTING

Description of Work	QTY.	Rate	Unit	Amount
Florida Bearing Value	2	\$35.00	each	\$70.00
Florida Bearing Value - Overtime	3	\$52.50	each	\$157.50
Limerock Bearing Ratio	6	\$295.00	each	\$1,770.00
Corrosion Series Testing	10	\$400.00	each	\$4,000.00
Moisture Content Determination (ASTM D2216)	6	\$15.00	each	\$90.00
Core Thickness	2	\$35.00	each	\$70.00
Core Thickness Overtime	3	\$52.50	each	\$157.50
Base Thickness	2	\$8.00	each	\$16.00
Base Thickness Overtime	3	\$12.00	each	\$36.00
Subgrade	2	\$8.00	each	\$16.00
Subgrade Overtime	3	\$12.00	each	\$36.00
-200 wash	150	\$30.00	each	\$4,500.00
Atterberg Limit	20	\$50.00	each	\$1,000.00
Loss on Ignition	20	\$50.00	each	\$1,000.00
<b>Total</b>				<b>\$12,919.00</b>

### CLEARING SERVICES

Description of work	QTY.	Rate	Unit	Amount
Mobilization of Clearing Equipment	6	\$600.00	each	\$3,600.00
Clearing Costs	24	\$350.00	per hour	\$8,400.00
<b>Total</b>				<b>\$12,000.00</b>

### GROUND PENETRATING RADAR TESTING

Description of work	QTY.	Rate	Unit	Amount
Mobilization of Crew and Equipment - First 2 hours each day	3	\$675.00	per day	\$2,025.00
Technician for each additional hour	6	\$285.00	per hour	\$1,710.00
<b>Total</b>				<b>\$3,735.00</b>



<b>Subtotal</b>	<b>\$106,507.00</b>
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**Project Activity 36: 3D-Modeling**

Estimator: Luis Nieto

Thmopson Nursery Extension - Phase 2 Design  
450858-1

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name	Kimley-Horn and Associates	

*NOTE: Signature Block is optional, per District preference*

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
36.1	Phase I 3D Design Model	Alignment / Corridor Mile	2.9	33.75	98	Middle Range Project C3: 20 hrs per mile * 2.9 (project length + side streets) = <b>58 hrs</b> ; Existing Features = <b>40 hrs</b> . <b>Total = 98 hrs</b>
36.2	Phase II 3D Design Model	Alignment / Corridor Mile	2.9	49.5	144	Middle Range Project C3: 10 hrs per mile * 2.9 (project length + side streets) = 29 hrs; 19 Driveways @ 5 hrs each = 95 hrs; Intersection Grading = 1 intersections @ 20 hrs each = 20 hrs; <b>Total = 144 hrs</b>
36.3	Phase III 3D Design Model	Alignment / Corridor Mile	2.9	15	44	Middle Range Project C3: 15 hrs per mile * 2.9 = <b>44 hrs</b>
36.4	Final 3D Design Model	Alignment / Corridor Mile	2.9	12	35	Middle Range Project C3: 12 hrs per mile * 2.9 = <b>35 hrs</b>
36.5	Cross Section Design Files	LS	2.9	50	145	Middle Range Project C3: 50 hrs per mile * 2.9 = <b>145 hrs</b>
36.6	Template and Assembly Development (Optional)	LS	1	0	0	
<b>3D Modeling Technical Subtotal</b>					<b>466</b>	
36.7	Quality Assurance/Quality Control	LS	%	5%	23	
36.8	Supervision	LS	%	5%	23	
36.9	Coordination	LS	%	3%	14	
<b>3D Modeling Total</b>					<b>526</b>	

Estimator:

Thompson Nursery Extension - Phase 2 Design  
450858-1

Representing	Print Name	Signature / Date
ACI	Lee Hutchinson	
Polk County		

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
<b>NOTE: * subject to QC</b>						
5.1	<b>Sociocultural Effects</b>					
	5.1 Sociocultural Effects Evaluation or Report *	LS	1	0	0	
	5.1.1 Social *	LS	1	0	0	
	5.1.2 Economic *	LS	1	0	0	
	5.1.3 Land Use Changes *	LS	1	0	0	
	5.1.4 Mobility *	LS	1	0	0	
	Transit Only *	LS	1	0	0	
	5.1.5 Aesthetics *	LS	1	0	0	
	5.1.6 Relocation Potential					
	Review and Impact Determination *	LS	1	0	0	
Conceptual Stage Relocation Plan (CSRP) *	LS	1	0	0		
<b>5.1 Sociocultural Effects Total</b>					<b>0</b>	
5.2	<b>Cultural Resources</b>					
	Research Design and Survey Methodology *	LS	0	0	0	
	5.2.1 Archaeological and Historic Resources					

37 CRAS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	Cultural Resource Assessment Survey (CRAS) *	LS	1	246	246	<p><b>Segment 5 Phase II Assumptions:</b>                      1. ACI will prepare one preliminary pond memo if needed and one CRAS Report for Segment 5; information provided in the Desktop Analysis will be used to guide the survey methodology; the survey consists of approximately 3 miles of the preferred alignment and the preferred pond sites (up to 5 ponds); 2. Archaeological field survey will consist of 2 archaeologists for 8 field days for preferred alignment and preferred pond sites; 3. The historical field survey will consist of 1 historian for 1 day in the field; 4. ACI will prepare a CRAS Report that will include Preferred Pond sites (2 draft and 1 final) (hours include writers, clerical, graphics, etc.). 5. Meetings, coordination.</p> <p>FMSF: Archaeological sites have a variable probability; evidence of one previously recorded site and one new site anticipated; anticipate recording three (3) new historic resources (built in or prior to 1980) and updating two previously recorded resource; a demo letter will be prepared for any previously recorded resource that is no longer extant.</p> <p><b>Scope of Services:</b>                      • Background research will identify previously recorded cultural resources (archaeological and historical) and discuss the potential for unrecorded resources within the study area.                      • A field survey will be conducted, and a Cultural Resource Assessment Survey (CRAS) report will be prepared documenting the findings.</p>
	CRAS Addendum or Technical Memo. for Pond Sites *	LS	1	0	0	
	Determination of Eligibility (DOE) As Required	LS	1	0	0	
	Case Study Report *	LS	1	0	0	
	Memorandum of Agreement (MOA) *	LS	1	0	0	
	Section 4(f) Evaluation for Historic Resources *	LS	1	0	0	
	Section 106 Consultation Meetings	LS	1	0	0	
	Native American Coordination Meeting	LS	1	0	0	
	Section 106 Public Involvement	LS	1	0	0	
	Florida Master Site File Form*	LS	1	0	0	
	5.2.2 Recreational, Section 4(f) *					
	Section 4(f) Determination of Applicability *	EA	0	0	0	
	Section 4(f) "de minimis" documentation *	EA	0	0	0	
	Section 4(f) Evaluation *	EA	0	0	0	
	<b>5.2 Cultural Resources Total</b>				<b>246</b>	
<b>5.3</b>	<b>Natural Resources</b>					
	<b>5.3.1 Wetlands</b>					
	Wetlands - Data Collection	LS	1	0	0	
	Wetlands - Evaluation *	LS	1	0	0	
	<b>5.3.2 Essential Fish Habitat</b>					
	Essential Fish Habitat - Data Collection	LS	1	0	0	
	Essential Fish Habitat Assessment *	LS	1	0	0	
	<b>5.3.3 Wildlife and Habitat</b>					
	Data Collection	LS	1	0	0	
	Specific Survey and Consultation	LS	1	0	0	
	Analysis *	LS	1	0	0	
	Conservation Measures and Mitigation Plan *	LS	1	0	0	

37 CRAS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	5.3.4 Natural Resource Evaluation (NRE) Report *	LS	1	0	0	
	5.3.5 Water Quality *	LS	1	0	0	
	5.3.6 Special Designations *	LS	1	0	0	
	5.3.7 Identify Permit Needs *	LS	1	0	0	
	5.3.8 Farmland *	LS	1	0	0	
<b>5.3 Natural Resources Total</b>					<b>0</b>	
<b>5.4</b>	<b>Physical Effects</b>					
	5.4.1 Noise					
	Methodology Meeting	LS	1	0	0	
	Data Collection	LS	1	0	0	
	Land Use Field Review/Outdoor Advertising Identification	LS	1	0	0	
	Field Measurement and Model Validation *	LS	1	0	0	
	Outdoor Advertising Identification	LS	1	0	0	
	Construction Noise and Vibration Assessment *	LS	1	0	0	
	Analysis and Noise Abatement Evaluation *	EA	0	0	0	
	Noise Report *	LS	1	0	0	
	5.4.2 Transit Noise and Vibration Analysis *	LS	1	0	0	
	5.4.3 Air Quality					
	Data Collection	LS	1	0	0	
	Screening Analysis *	LS	1	0	0	
	Air Quality Modeling *	LS	1	0	0	
	Air Quality Technical Memorandum *	LS	1	0	0	
	Mobile Air Toxics Analysis *	LS	1	0	0	
	5.4.4 Construction Impact Analysis *	LS	1	0	0	
	5.4.5 Contamination					
	Field Data	LS	1	0	0	
	Analysis and Report *	LS	1	0	0	
<b>5.4 Physical Effects Total</b>					<b>0</b>	
<b>5.5</b>	<b>Cumulative Effects Evaluation *</b>	EA	0	0	0	
<b>5.6</b>	<b>Project Commitments Record *</b>	LS	1	0	0	
<b>Environmental Analysis and Report Subtotal</b>					<b>246</b>	
<b>Hours Subject to QC</b>					<b>246</b>	
	Quality Assurance / Quality Control	LS	%	5%	12	
<b>ENVIRONMENTAL ANALYSIS AND REPORT TOTAL HOURS</b>					<b>258</b>	