

PROFESSIONAL SERVICE AGREEMENT

#2022-041

AMENDMENT #3

This AMENDMENT 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, the Consultant has performed the alignment study for Phase 1 – Segment 2, the County now wishes to authorize 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, 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 3, shall be a not-to-exceed amount of \$4,119,689.30. Accordingly, the total Agreement amount shall be increased from the current not-to-exceed amount of \$6,255,231.65 to the new not-to-exceed amount of \$10,374,920.95.

5. The Agreement, as amended by this Amendment 3, continues in full force and effect.

THE REMAINDER OF PAGE LEFT INTENTIONALLY BLANK

IN WITNESS WHEREOF, the parties hereto have executed this Amendment 3 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:

N. Miller 12/30/2025
County Attorney's Office Date

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

By: Heather A.S. Roberts

Heather A.S. Roberts

PRINT NAME

Regional Business Manager

TITLE

Date: 12/30/2025

ACKNOWLEDGEMENT OF FIRM IF A LIMITED LIABILITY COMPANY

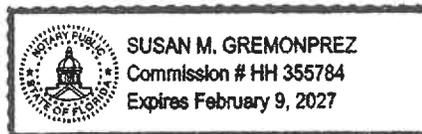
STATE OF _____ County OF _____
The foregoing instruments was acknowledged before me by means of physical presence or online notarization this _____ (Date) by _____ (Name of officer or agent) as _____ (title of officer or agent) of the Company on behalf of the Company, pursuant to the powers conferred upon him/her by the Company. He/she personally appeared before me at the time of notarization, and is personally known to me or has produced _____ as identification and did certify to have knowledge of the matters stated in the foregoing instrument and certified the same to be true in all respects. Subscribed and sworn to (or affirmed) before me this _____ (Date) _____ (Official Notary Signature and Notary Seal) _____ (Name of Notary typed, printed or stamped) Commission Number _____ Commission Expiration Date _____

ACKNOWLEDGEMENT OF FIRM, IF A CORPORATION

STATE OF Florida County OF Orange
The foregoing instrument was acknowledged before me by means of physical presence or online notarization this Dec. 30, 2025 (Date) by Heather A.S. Roberts (Name of officer or agent) as Regional Business Mgr (title of officer or agent) of the Corporation on behalf of the Corporation, pursuant to the powers conferred upon him/her by the Corporation. He/she personally appeared before me at the time of notarization, and is personally known to me or has produced _____ as identification and did certify to have knowledge of the matters stated in the foregoing instrument and certified the same to be true in all respects. Subscribed and sworn to (or affirmed) before me this 30th of Dec. 2025 (Date) Susan M. Gremonprez (Official Notary Signature and Notary Seal) Susan M. Gremonprez (Name of Notary typed, printed or stamped) Commission Number HH355784 Commission Expiration Date 2-9-2027

ACKNOWLEDGEMENT OF FIRM, IF AN INDIVIDUAL

STATE OF _____ County OF _____
The foregoing instrument was acknowledged before me by means of physical presence or online notarization this _____ (Date) By _____ (Name of acknowledging) who personally appeared before me at the time of notarization, and is personally known to me or has produced _____ as identification and did certify to have knowledge of the matters in the foregoing instrument and certified the same to be true in all respects. Subscribed and sworn to (or affirmed) before me this _____ (Date) _____ (Official Notary Signature and Notary Seal) _____ (Name of Notary typed, printed or stamped) Commission Number _____ Commission Expiration Date _____



Attachment A

SCOPE OF SERVICES

FOR

THOMPSON NURSERY ROAD EXTENSION – SEGMENT 2

POLK COUNTY

Prepared by:

Kimley-Horn and Associates, Inc.

November 26, 2025

I.	Table of Contents	
I.	DESCRIPTION.....	5
II.	OBJECTIVE	5
III.	TASK 1 – SEGMENT 2 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 (Terracon)	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	12
2.	Hydroplaning Analysis.....	12
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.....	13
12.	Design of Stormwater Management Facility	13
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	14
19.	Evaluation of Existing French Drain Systems: N/A.....	14
20.	Design of Drainage Wells	14
21.	Erosion Control Concept	14
22.	Other Drainage Tasks	14
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	19
1.	Mast Arm Design.....	19
2.	Culvert Design	20
3.	Bridge Design – Wahneta Canal Crossing	20
4.	Bridge Design – CSX Crossing	21
14.	Subsurface Utility Exploration (SUE) (ECHO)	21
15.	Utility Coordination (ECHO)	22

16. Public Involvement – N/A 22

17. Project Administration 22

18. Right of Way Acquisition Assistance 23

19. Bid Document Assistance..... 23

20. Post Design Services..... 23

IV. PROVISIONS FOR WORK..... 24

1. Governing Regulations 24

SCOPE OF SERVICES
FOR
THOMPSON NURSERY ROAD EXTENSION – PHASE I SEGMENT 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 1 (approximately 800 ft south of the intersection of Rifle Range Road and Eloise Loop Road) to the terminus of Taverna Loop and Bryson Blvd (approximately 1700 ft east of the CSX railway). Total project length is approximately 3.2 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 Eloise Loop Road and Rifle Range Rd/ Thompson Nursery Road Extension and the terminus of Taverna Loop and Bryson Blvd east of the CSX railroad
- A Preliminary Engineering Report dated July 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, CSX Transportation (CSX) and Polk County.
- The PROJECT will require wetland delineation and 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 will have two typical sections. The first typical is a 4-lane divided typical section with a 22-foot median, 12-foot travel lanes, 4-foot bike lanes and 6 ft sidewalks. The second typical will be the same as the first typical section but will replace the 6-ft

sidewalks on both sides of the road with an 8-foot and 12-foot asphalt path on the north side and south side of the corridor respectively.

- Design will include a new roadway connection to Old Rifle Range Road, modification and reconstruction of the Eloise Lake Loop Road intersection, a cul-de-sac at Old Rifle Range Road (south of Eagle Lake Loop Road), a driveway connection to Thompson Nursery Road for the property adjacent to the cul-de-sac, reconstruction of a portion of Rifle Range Road including a proposed intersection at TNR and Rifle Range Road, reconstruction of Pollard Road north to Majestic Lane, modification to Logistics Parkway including an intersection with TNR.
- Signalized intersections are provided at Eagle Lake Loop Road, Rifle Range Road, and Logistics Parkway
- Structural scope includes a bridge culvert crossing over the Wahneta Canal south of Eloise Loop Road, a bridge crossing the Wahneta Canal southeast of the TNR and Rifle Range Road intersection, a steel bridge crossing over CSX right of way, retaining walls and miscellaneous structures.
- 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 Terracon Consultants, 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 – SEGMENT 2 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 (Terracon)**

- 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 roadway, where previously collected geotechnical data can be used, perform confirmation 5-foot soil boring at 500 foot intervals, and measure observed groundwater elevations and estimate seasonal high groundwater level at each soil boring location.
- 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.
- Obtain LBR / Resilient Modulus to be used for Flexible Pavement Design calculations.
- Obtain 8 pavement cores for the following side streets:
 - Eloise Loop Road (1 core)
 - Rifle Range Road (3 cores)
 - Pollard Rd (4 cores)
- 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. This scope identifies 1 location of an 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
 - Five (5) new stormwater pond areas
 - Five (5) new flood plain compensation areas
- Perform muck probing at 100 foot intervals within wetland areas.
- Perform Standard Penetration Test (SPT) boring for new box culvert – double box (10x5), assume 150 ft long

- Perform Standard Penetration Test (SPT) boring for new signal structures – 10 total signal foundations
- Perform SPT borings for bridge crossings
 - Wahneta Canal Crossing – assume single span bridge
 - CSX crossing – assume single span crossing but include borings for possible pier
- 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 and a species-specific survey for the Florida bonneted bat in accordance with the 2024 Florida Bonneted Bat Consultation Guidelines – Acoustic Survey Methods, Florida scrub-jay in accordance with the 2007 Florida Scrub-Jay Survey Guidelines, sand skinks in accordance with the 2023 Species Conservation and Consultation Guide – Sand Skinks and Blue-tailed Mole Skinks Survey Protocol, and 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:

- Determine 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).
- Collect all data and information necessary to determine the jurisdictional boundaries of wetlands and other surface waters as defined by the rules or regulations of each permitting agency processing a permit application for the project.

- 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 appropriate agency forms to obtain required permits. Forms may include but are not limited to the USACE "Wetland Determination Data Form – Atlantic and Gulf Coastal Plain Region"; the USACE "Approved Jurisdictional Determination Form"; Uniform Mitigation Assessment Method forms and/or project specific data forms.

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
 - c. FDEP State 404 Program Permit
4. Obtain 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 Segment 2 which will include the recommended alternative (Alt 1) and preferred pond sites (6 preferred ponds and 5 preferred FPC sites).

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

N/A
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
- Old Rifle Range Road Connection
- Eagle Lake Loop Road Intersection
- Rifle Range Road
- Pollard Road
- Logistic Parkways

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.

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, County Commissioners 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 60% at 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:

- Eloise Loop Road - Mast arms to be installed under the Thompson Nursery Road Extension Segment 1. Pedestrian signals and crossing to be added to the south leg of the intersection.
- Eagle Lake Loop Road – Replacement of existing strain pole assembly and pedestrian signals with the installation of four (4) proposed mast arms to treat the four-leg intersection. Pedestrian signals for crossing to be provided on all legs of the intersection.
 - One (1) temporary modification to the loading of the proposed mast arms, phasing and clearance intervals anticipated to be needed to accommodate temporary traffic control plans.
- Rifle Range Road– Installation of three (3) proposed mast arms to treat the T-intersection.
- Logistics Parkway – Installation of three (3) proposed mast arms to treat the T-intersection.

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
 - 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.
- Incorporation of solar powered Rectangular Rapid Flashing Beacon Assemblies (RRFB's) at midblock crossing location at Pollard Road
- 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.
 - Eloise Loop Road: Intersection lighting to be installed under the Thompson Nursery Road Extension Segment 1. Lighting design and resulting plans, voltage drop calculations, etc. will be modified to accommodate proposed southbound crosswalk.
 - Eagle Lake Loop Road
 - Rifle Range Road
Logistics Parkway
- Intersection lighting plans will be prepared for midblock crossing locations 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.
 - Pollard Road
- A Lighting Design Analysis Report (LDAR) will be prepared to summarize the photometric analyses at the signalized intersections and midblock crossing. The analysis will include a printout showing horizontal photometrics at the intersections and vertical photometrics at crosswalks. Voltage drop calculations will be documented it 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 2022
- FDOT Structures Manual (January 2026)
- FDOT FY 2025-26 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. Culvert Design

Structural design of box culverts shall be in accordance with the documents referenced. Design will be in accordance with the following:

- AASHTO LRFD Bridge Design Specifications, 9th Edition, 2020
- FDOT Structures Manual (January 2026)
- FDOT FY 2025-26 Standard Plans
- FDOT Standard Specifications for Road and Bridge Construction (January 2026)

CONSULTANT will design and prepare structural calculations in letter format for a cast in place concrete culvert. Culvert size assumed is as follows:

- Double 10x5

Calculations will be submitted at roadway 60%, 90%, 100% and Final submittals.

3. Bridge Design – Wahneta Canal Crossing

Design will be in accordance with the following:

- AASHTO LRFD Bridge Design Specifications, 9th Edition, 2020
- FDOT Structures Manual (January 2026)
- FDOT FY 2025-26 Standard Plans
- FDOT Standard Specifications for Road and Bridge Construction (January 2026)

- a) Kimley-Horn will provide a bridge development memorandum 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 memo will be provided briefly 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.

4. Bridge Design – CSX Crossing

- a) Kimley-Horn will coordinate with CSX regarding possible access to the railroad R/W to determine if a two-span bridge can be utilized at the crossing. Based on the outcome of coordination with CSX either a two-span concrete or single-span steel bridge will be utilized at this crossing.
- b) 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. This scope assumes a single-span steel bridge will be the outcome of coordination with CSX.

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), Frontier Communications, Tampa Electric Company, Summit Broadband, MCI (Verizon), Uniti Fiber LLC, Waheta Water System, Inc., City of Winter Haven*

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.

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

**STAFF HOUR ESTIMATION - THOMPSON NURSERY ROAD SEGMENT 2
WORKSHEET PACKAGE**

November 2025

File Version: 2025.01.1

Name of Consultant:

Kimley-Horn and Associates

Thompson Nursery Extension - Segment 2 Design
TNR Seg 2

Activity No.	Activity	Project Staff Hours												Total Hours	
		Kimley-Horn	Terracon	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	600													600
4	Roadway Analysis	3147													3147
5	Roadway Plans	2348													2348
6a	Drainage Analysis	2865													2865
6b	Drainage Plans	1506													1506
6c	Selective C&G	0													0
7	Utilities	0		193											193
8	Env. Permits and Env. Clearances	1170													1170
9	Structures - Summary, Misc. Tasks, Dwgs.	757													757
10	BDR	334													334
11	Temporary Bridge	0													0
12	Short Span Concrete Bridge	0													0
13	Medium Span Concrete Bridge	890													890
14	Structural Steel Bridge	1525													1525
15	Segmental Concrete Bridge	0													0
16	Movable Span	0													0
17	Retaining Walls	284													284
18	Miscellaneous Structures	302													302
19	Signing & Pavement Marking Analysis	664													664
20	Signing & Pavement Marking Plans	189													189
21	Signalization Analysis	387													387
22	Signalization Plans	217													217
23	Lighting Analysis	246													246
24	Lighting Plans	128													128
25	Landscape Analysis	0													0
26	Landscape Plans	0													0
27	Survey - Field and Office Support	0		319											319
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	720												720
36	3D Modeling	645													645
37	CRAS				630										630
	Project Total	18,204	720	512	630	0	20,066								
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 - GRAND TOTAL

Financial Project Number: TNR Seg 2

Project Name: Thompson Nursery Extension - Segment 2 Design

FAP Number: 0

Date: 11/26/2025

Name of Consultant: Kimley-Horn and Associates

WORK ACTIVITY	Hours from "Summary" sheet	EMPLOYEE CLASSIFICATION																	TOTAL STAFF HOURS		ON CADD	
		Grand 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			PERCENT
3. Project Common and Project General Tasks	600	0	0	420	0	0	0	0	0	0	0	0	0	0	0	0	0	180	600	660		
4. Roadway Analysis	3147	157	0	157	315	472	1416	157	472	0	0	0	0	0	0	0	0	0	3146	3461		
5. Roadway Plans	2348	117	0	117	235	352	1057	117	352	0	0	0	0	0	0	0	0	0	2347	2582		
6a. Drainage Analysis	2865	143	0	143	287	430	1289	143	430	0	0	0	0	0	0	0	0	0	2865	3152		
6b. Drainage Plans	1506	75	0	75	151	226	678	75	226	0	0	0	0	0	0	0	0	0	1506	1657		
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	193	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	1170	0	0	0	0	0	0	0	0	0	0	0	0	0	234	234	702	0	1170	1287		
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	757	38	0	38	76	114	341	38	114	0	0	0	0	0	0	0	0	0	759	835		
10. Structures - Bridge Development Report	334	17	0	17	33	50	150	17	50	0	0	0	0	0	0	0	0	0	334	367		
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	890	45	0	45	89	134	401	45	134	0	0	0	0	0	0	0	0	0	893	982		
14. Structures - Structural Steel Bridge	1525	76	0	76	153	229	686	76	229	0	0	0	0	0	0	0	0	0	1525	1678		
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	284	14	0	14	28	43	128	14	43	0	0	0	0	0	0	0	0	0	284	312		
18. Structures - Miscellaneous	302	15	0	15	30	45	136	15	45	0	0	0	0	0	0	0	0	0	301	331		
19. Signing & Pavement Marking Analysis	664	33	0	33	66	100	299	33	100	0	0	0	0	0	0	0	0	0	664	730		
20. Signing & Pavement Marking Plans	189	9	0	9	19	28	85	9	28	0	0	0	0	0	0	0	0	0	187	206		
21. Signalization Analysis	387	19	0	19	39	58	174	19	58	0	0	0	0	0	0	0	0	0	386	425		
22. Signalization Plans	217	11	0	11	22	33	98	11	33	0	0	0	0	0	0	0	0	0	219	241		
23. Lighting Analysis	246	12	0	12	25	37	111	12	37	0	0	0	0	0	0	0	0	0	246	271		
24. Lighting Plans	128	6	0	6	13	19	58	6	19	0	0	0	0	0	0	0	0	0	127	140		
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)	319	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	720	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
36. 3D Modeling	645	32	0	32	65	97	290	32	97	0	0	0	0	0	0	0	0	0	645	710		
TOTALS	19436	819	0	1239	1646	2467	7397	819	2467	0	0	0	0	0	234	234	702	180	18204	20024		
Field Survey Estimate:																						
0 4-person crew days													(Prime Consultant)									

- Notes:
- This worksheet provides the distribution of the grand total staff hours for a project.
 - Percentages for staff hour distribution by classification are entered below in rows 65 to 99 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.
 - This spreadsheet to be provided in Technical Proposals for Districts that require a breakdown of hours by classification.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - GRAND TOTAL

Financial Project Number: TNR Seg 2

Project Name: Thompson Nursery Extension - Segment 2 Design

FAP Number: 0

Date: 11/26/2025

Name of Consultant: Kimley-Horn and Associates

Staff Hour Distribution Percentages - Grand Total

	Hours from "Summary" sheet Grand 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	600	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	3147	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	2348	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	2865	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	1506	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	193	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	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	1170	0.0%	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.	757	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	334	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	890	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	1525	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	284	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	302	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	664	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	189	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	387	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	217	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	246	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	128	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)	319	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	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	720	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	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	645	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%

Note: This spreadsheet to be used in Technical Proposal for Districts requiring the Grand Total hours be provided along with percentage distribution by classification.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number: TNR Seg 2

Project Name: Thmpson Nursery Extension - Segment 2 Design

FAP Number: 0

Date: 11/26/2025

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	Hours		Hours
3. Project Common and Project General Tasks	600	0	0	420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180	600	660	
4. Roadway Analysis	3147	157	0	157	315	472	1416	157	472	0	0	0	0	0	0	0	0	0	0	3146	3461	
5. Roadway Plans	2348	117	0	117	235	352	1057	117	352	0	0	0	0	0	0	0	0	0	0	2347	2582	
6a. Drainage Analysis	2865	143	0	143	287	430	1289	143	430	0	0	0	0	0	0	0	0	0	0	2865	3152	
6b. Drainage Plans	1506	75	0	75	151	226	678	75	226	0	0	0	0	0	0	0	0	0	0	1506	1657	
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	
7. Utilities	0	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	1170	0	0	0	0	0	0	0	0	0	0	0	0	0	234	234	702	0	1170	1287		
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	757	38	0	38	76	114	341	38	114	0	0	0	0	0	0	0	0	0	0	759	835	
10. Structures - Bridge Development Report	334	17	0	17	33	50	150	17	50	0	0	0	0	0	0	0	0	0	0	334	367	
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	
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	
13. Structures - Medium Span Concrete Bridge	890	45	0	45	89	134	401	45	134	0	0	0	0	0	0	0	0	0	0	893	982	
14. Structures - Structural Steel Bridge	1525	76	0	76	153	229	686	76	229	0	0	0	0	0	0	0	0	0	0	1525	1678	
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	
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	
17. Structures - Retaining Walls	284	14	0	14	28	43	128	14	43	0	0	0	0	0	0	0	0	0	0	284	312	
18. Structures - Miscellaneous	302	15	0	15	30	45	136	15	45	0	0	0	0	0	0	0	0	0	0	301	331	
19. Signing & Pavement Marking Analysis	664	33	0	33	66	100	299	33	100	0	0	0	0	0	0	0	0	0	0	664	730	
20. Signing & Pavement Marking Plans	189	9	0	9	19	28	85	9	28	0	0	0	0	0	0	0	0	0	0	187	206	
21. Signalization Analysis	387	19	0	19	39	58	174	19	58	0	0	0	0	0	0	0	0	0	0	386	425	
22. Signalization Plans	217	11	0	11	22	33	98	11	33	0	0	0	0	0	0	0	0	0	0	219	241	
23. Lighting Analysis	246	12	0	12	25	37	111	12	37	0	0	0	0	0	0	0	0	0	0	246	271	
24. Lighting Plans	128	6	0	6	13	19	58	6	19	0	0	0	0	0	0	0	0	0	0	127	140	
25. Landscape Analysis	0	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	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	0	
28. Photogrammetry	0	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	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	0	
31. Architecture Development	0	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	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	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	0	
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
36. 3D Modeling	645	32	0	32	65	97	290	32	97	0	0	0	0	0	0	0	0	0	0	645	710	
TOTALS	18,204	819	0	1,239	1,646	2,467	7,397	819	2,467	0	0	0	0	0	234	234	702	180	18204	20024		
														FIRM TOTAL				18,204	20,024			

Field Survey Estimate:
0 4-person crew days

- 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: TNR Seg 2

Project Name: Thompson Nursery Extension - Segment 2 Design

FAP Number: 0

Date: 11/26/2025

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	600	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	3147	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	2348	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	2865	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	1506	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	1170	0.0%	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.	757	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	334	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	890	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	1525	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	284	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	302	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	664	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	189	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	387	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	217	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	246	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	128	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	645	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 FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number: 1/0/1900

Project Name: Thompson Nursery Road Extension from Eloise Loop Rd. (Sta. 125+00) to W. of Rialto Rd. (Sta. 292+65) (Segment #2)

FAP Number: 0

Date: 11/26/2025

Name of Consultant: ECHO UES, Inc

WORK ACTIVITY	Hours from "Summary" sheet		EMPLOYEE CLASSIFICATION												TOTAL STAFF HOURS		ON CADD
	Firm	Total	Project Manager 3	SUR Senior Surveyor 2	SUR Survey Project Manager 3	Survey/GIS/SUE Analyst 3 (Senior)	Chief Utility Coordinator	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	RANGE		
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	PERCENT	
3. Project General and Project Common 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	
7. Utilities	193	0	0	0	0	193	0	0	0	0	0	0	0	0	193	212	
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 (SUE)	319	48	48	96	127	0	0	0	0	0	0	0	0	0	319	351	
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	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	
TOTALS	512	48	48	96	127	193	0	0	0	0	0	0	0	0	512	563	

Field Survey Estimate:

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.

0	4-person crew days	FIRM TOTAL	512	563
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ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Thompson Nursery Road Extension
from Eloise Loop Rd. (Sta. 125+00) to
W. of Rialto Rd. (Sta. 292+65) (Segment
Project Name #2)

Financial Project Number: 1/0/1900

FAP Number: 0

Date: 11/26/2025

Name of Consultant: ECHO UES, Inc

Staff Hour Distribution Percentages - Firm Total														
	Hours from "Summary" sheet Firm Total	Project Manager 3	SUR Senior Surveyor 2	SUR Survey Project Manager 3	Survey/GIS/SU E Analyst 3 (Senior)	Chief Utility Coordinator	Staff Classi- fication 6	Staff Classi- fication 7	Staff Classi- fication 8	Staff Classi- fication 9	Staff Classi- fication 10	Staff Classi- fication 11	Staff Classi- fication 12	Total
3. Project General and Project Common 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%	0.00%
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%	0.00%
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%	0.00%
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%	0.00%
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%	0.00%
7. Utilities	0	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
8. Environmental Permits, and Env. 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%	0.00%
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%	0.00%
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%	0.00%
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	0	0.0%	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	0	0.0%	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%	0.00%
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%	0.00%
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%	0.00%
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%	0.00%
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%	0.00%
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%	0.00%
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%	0.00%
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 (SUE)	0	15.0%	15.0%	30.0%	40.0%	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%	0.00%
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	0	0.0%	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%	0.00%

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number: 1/0/1900
 FAP Number: 0

Project Name: Thompson Nursery Road Extension - Segment 2
 Date: 11/26/2025 Name of Consultant: Kimley Horn / Terracon

WORK ACTIVITY	Hours from "Summary" sheet		EMPLOYEE CLASSIFICATION											TOTAL STAFF HOURS		ON CADD	
	Firm	Total	Senior Engineer	Project Engineer	Sr. Eng. Technician	CADD Technician	Admin. Assistant	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	RANGE		PERCENT
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours			
3. Project General and Project Common 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	
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	720	108	324	144	108	36	0	0	0	0	0	0	0	720	792		
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TOTALS	720	108	324	144	108	36	0	0	0	0	0	0	0	720	792		
Field Survey Estimate:																	
0 4-person crew days													FIRM TOTAL		720	792	

- 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: 1/0/1900

Project Name Thompson Nursery Road Extension - Segment 2

FAP Number: 0

Date: 11/26/2025

Name of Consultant: Kimley Horn / Terracon

Staff Hour Distribution Percentages - Firm Total														
	Hours from "Summary" sheet Firm Total	Senior Engineer	Project Engineer	Sr. Eng. Technician	CADD Technician	Admin. Assistant	Staff Classi- fication 6	Staff Classi- fication 7	Staff Classi- fication 8	Staff Classi- fication 9	Staff Classi- fication 10	Staff Classi- fication 11	Staff Classi- fication 12	Total
3. Project General and Project Common 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%	0.00%
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%	0.00%
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%	0.00%
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%	0.00%
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%	0.00%
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	0	0.0%	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%	0.00%
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%	0.00%
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	0	0.0%	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	0	0.0%	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%	0.00%
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%	0.00%
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%	0.00%
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%	0.00%
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%	0.00%
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%	0.00%
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%	0.00%
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	699	15.0%	45.0%	20.0%	15.0%	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
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%	0.00%

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number: 123456-7-89-10

Project Name Thompson Nursery Road Ext., Segment 2 CRAS

FAP Number: 54321

Date: 11/26/2025

Name of Consultant: Archaeological Consultants, Inc.

WORK ACTIVITY	Hours from "Summary" sheet	EMPLOYEE CLASSIFICATION												TOTAL STAFF HOURS		ON CADD	
	Firm Total	Chief Scientist	Senior Scientist	Chief Archaeologist	Scientist	Senior Archaeologist	GIS Specialist	Archaeologist	Secretary/Clerical	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	RANGE		PERCENT	
	Hours	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		
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Engineering Analyses and Considerations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Environmental Analysis and Reports	630	50	159	43	101	104	54	104	15	0	0	0	0	630	693		
Environmental Document	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TOTALS	630	50	159	43	101	104	54	104	15	0	0	0	0	630	693		
Field Survey Estimate: 4-man crew days												FIRM TOTAL		630	693		

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number: 123456-7-89-10

Project Name Thompson Nursery Road Ext., Segment 2 CRAS

FAP Number: 54321

Date: 11/26/2025

Name of Consultant: Archaeological Consultants, Inc.

Staff Hour Distribution Percentages - Firm Total														
	Hours from "Summary" sheet Firm Total	Chief Scientist	Senior Scientist	Chief Archaeologist	Scientist	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 Analyses and Considerations	0	0.0%	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 and Reports	630	8.0%	25.3%	6.8%	16.0%	16.5%	8.6%	16.5%	2.4%	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%

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Thompson Nursery Road Extension from Eloise Loop Rd. (Sta. 125+00) to W. of Rialto Rd. (Sta. 292+65) (Segment #2)
 County: Polk
 FPN: 0
 FAP No.: 1/0/1900

Consultant Name: ECHO UES, Inc
 Consultant No.: enter consultants proj. number
 Date: 11/26/2025
 Estimator: Jerry Comellas, Jr., PE

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)	Chief Utility Coordinator	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH	Salary	Average
		\$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	By Activity	Cost By Activity
3. Project General and Project Common 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!
7. Utilities	193	0	0	0	0	193	0	0	0	0	0	0	0	193	\$27,290.20	\$141.40
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 (SUE)	319	48	48	96	127	0	0	0	0	0	0	0	0	319	\$55,157.82	\$172.91
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	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	#DIV/0!
Total Staff Hours	512	48	48	96	127	193	0	0	0	0	0	0	0	512		
Total Staff Cost		\$14,631.84	\$12,519.84	\$15,821.76	\$12,184.38	\$27,290.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$82,448.02	\$161.03

Check = \$82,448.02

SALARY RELATED COSTS:				\$82,448.02
OVERHEAD:		0%		\$0.00
OPERATING MARGIN:		0%		\$0.00
FCCM (Facilities Capital Cost Money):		0.00%		\$0.00
EXPENSES:		0.00%		\$0.00
SUBTOTAL ESTIMATED FEE:				\$82,448.02
SUE (Designating)	185	3-person crew	\$ 282.56 / hour	\$52,155.14
SUE (Locating)	337	3-person crew	\$ 282.56 / hour	\$95,104.95
Survey (to support SUE)	143	3-person crew	\$ 227.28 / hour	\$32,406.17
	664			\$0.00
SUBTOTAL ESTIMATED FEE:				\$262,114.28
Optional Services				\$0.00
GRAND TOTAL ESTIMATED FEE:				\$262,114.28

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

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Thompson Nursery Road Extension - Segment 2
 County: Polk
 FPN: 0
 FAP No.: 1/0/1900

Consultant Name: Kimley Horn / Terracon
 Consultant No.: enter consultants proj. number
 Date: 11/26/2025
 Estimator: insert name

Staff Classification	Total Staff Hours From "SH Summary Firm"	Senior Engineer	Project Engineer	Sr. Eng. Technician	CADD Technician	Admin. Assistant	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$210.00	\$174.00	\$84.00	\$102.00	\$78.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
3. Project General and Project Common 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!
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	720	108	324	144	108	36	0	0	0	0	0	0	0	720	\$104,976	\$145.80
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	720	108	324	144	108	36	0	0	0	0	0	0	0	720		
Total Staff Cost		\$22,680.00	\$56,376.00	\$12,096.00	\$11,016.00	\$2,808.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$104,976.00	\$145.80

Check = \$104,976.00

SALARY RELATED COSTS:				\$104,976.00
OVERHEAD:		0%		\$0.00
OPERATING MARGIN:		0%		\$0.00
FCCM (Facilities Capital Cost Money):		0.00%		\$0.00
EXPENSES:		0.00%		\$0.00
SUBTOTAL ESTIMATED FEE:				\$104,976.00
Survey (Field)	0	4-person crew	\$ - / day	\$0.00
Geotechnical Field and Lab Testing				\$95,844.00
SUBTOTAL ESTIMATED FEE:				\$200,820.00
Optional Services				\$0.00
GRAND TOTAL ESTIMATED FEE:				\$200,820.00

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

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Thompson Nursery Road Ext., Segment 2 CRAS
 County: Polk
 FPN:
 FAP No.:

Consult. Name: Archaeological Consultants, Inc.
 Consult. No.
 Date: 12/2/2025
 Estimator:

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Chief Scientist	Senior Scientist	Chief Archaeologist	Scientist	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
		\$242.61	\$198.76	\$159.01	\$113.58	\$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 Analyses and Considerations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Environmental Analysis and Reports	630	50	159	43	101	104	54	104	15	0	0	0	0	630	\$95,150	\$151.03
Environmental Document	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	630	50	159	43	101	104	54	104	15	0	0	0	0	630		
Total Staff Cost		\$12,130.50	\$31,602.84	\$6,837.43	\$11,471.58	\$14,371.76	\$7,257.60	\$9,717.76	\$1,760.55	\$0.00	\$0.00	\$0.00	\$0.00		\$95,150.02	\$151.03

Check = \$95,150.02

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

SALARY RELATED COSTS:		\$95,150.02
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
SALARY RELATED SUBTOTAL:		\$95,150.02
Survey (Field - if by Sub)	0.00 4-man crew day \$ - / day	\$0.00
SUBTOTAL - SUBCONSULTANT		\$95,150.02
Optional Services		\$0.00
SUBCONSULTANT TOTAL ESTIMATED FEE:		\$95,150.02

Project Activity 3: General Tasks

Estimator: Joseph Roberts					Thompson Nursery Extension - Segment 2 Design TNR Seg 2	
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
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
3.1 Public Involvement Subtotal					0	
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	Roadway, Drainage, Lighting, Structures, Signals, S&PM
		Components	6	28		
3.4	Contract Maintenance and Project Documentation	LS	1	112	112	20 hours start-up + 16 month project duration +12 final documentation = 20+16*6 +12 = 112
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	N/A
3.6	Prime Consultant Project Manager Meetings	LS	1	396	396	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	44	44	assume 5 meetings with CSX including a concept meeting = 20 hours for concept meeting +4*6 hours = 44
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	
3. Project Common and Project General Tasks Total					600	
3.6 - List of Project Manager Meetings						
		Units	No of Units	Hours/ Unit	Total Hours	Comments
	Roadway Analysis	EA	17	9	153	travel time, meeting minutes, attendance PM and Deputy etc. Data is provided in roadway analysis section - reduced by 17 meetings as progress meetings were double counted
	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	
	Phase Reviews	EA	0	0	0	
	Field Reviews	EA	0	0	0	
Total Project Manager Meetings			44		396	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

Thomposon Nursery Road Extension

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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
4.1	Typical Section Package	LS	1	132	132	Thompson Nursery Rd = 2 Typical ; Old Riffle Road = 1 typical ; Eagle Loop Rd = 2 Typical ; Rifle Range Rd = 2 Typical ; Pollard Rd = 2 Typical ; Logistic Parkway = 2 Typical. Total # of Typical = 11 Typical. 22 hrs for Data sheet + 10 hrs per typical * 11 typical = 132 hrs Total
4.2	Pavement Type Selection Report	LS	1	0	0	N/A
4.3	Pavement Design Package	LS	1	150	150	Thompon Nursery Rd: (1) New Const Pavt Design + (1) Milling and Resurfacing (M&R) ; Old Riffle Range Rd: (1) Reconst; Eagle Loop Road: (1) Reconst, (1) M&R; Rifle Range Rd: (1) New Const, (1) M&R; Pollard Rd: (1) Reconst, (1) M&R; Logistic Parkway = (1) Reconst, (1) M&R; Total Pavement designs = 11; Initial Set up + 1 pavement design = 50 hrs + 10 pavement designs @ 10 hrs each = 150 hrs Total
4.4	Cross-Slope Correction	LS	1	26	26	Riffle Range Road Cross slope correction to Tie in to existing road from new horizontal curve connection to TNR. Analysis of existing cross slope (2 hrs) + cross slope concept creation (24 hrs); Total 26 hrs
4.5	Horizontal /Vertical Master Design Files	LS	1	980	980	Project length = 3.2 miles; 320 hrs (1st mile) + 300 hrs * 2.2 (remaining miles) = 980 hrs
4.6	Access Management	LS	1	64	64	3.2 miles of divided roadway * 20 hrs per mile = 64 hrs
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	260	260	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: Eagle Lake Loop (24 hrs); Rifle Range Rd (30 hrs); Pollard Rd (36 hrs) Total cross section analysis= 90 hrs. Total TTCP analysis =260 hrs
4.11	Master TTCP Design Files	LS	1	731	731	Vehicular TTCP = 44 hrs * 3.2 miles * 4 phases = 563 hrs; Pedestrian TCP = 24 hrs * 4 phases = 96 hr; Temporary Drainage = 24 hrs * 3 phases = 72 hrs. Total Hours = 731 hrs Total
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	156	156	16 hrs / mile * 3.75 miles + 48 hrs x 2 (Roadway & TCP) = 156 hrs
4.17	Cost Estimate	LS	1	48	48	Initial Cost Estimate 16 hrs + 4 submittals * 8 hrs= 3 * 24 hrs = 48 hrs
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
Roadway Analysis Technical Subtotal					2607	
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	170	170	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	5%	130	
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	130	
Roadway Analysis Nontechnical Subtotal					478	
4.26	Coordination	LS	%	2%	62	
4. Roadway Analysis Total					3147	

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	19	5	95	Kick-Off, 16 Monthly Progress Mtgs, 2 Public Involvement Mtgs (1p)	yes	19
Subtotal Technical Meetings				170		Subtotal Project Manager Meetings	34
Progress Meetings (if required by FDOT)	EA	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>		--
Phase Review Meetings	EA	0	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>		--
Total Meetings				170	Total Project Manager Meetings (carries to Tab 3)		34

Project Activity 5: Roadway Plans

Estimator: Luis Nieto

Thomposon Nursery Road Extension

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Representing		Print Name	Signature / Date
FDOT District			
Consultant Name		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	11	10	110	
5.3.2	Typical Section Details		EA	1	16	16	Anticipated Cross slope correction at Riffle Range for new connection to TNR = 16 hrs
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	3.2 miles project length * 5280 ft / mile = 16,896 ft. / 2900 ft per sheet coverage = 6 sheets
5.7	Plan/Profile Sheet		Sheet	0	0	0	
5.8	Profile Sheet	50	Sheet	30	6	180	3.2 miles project length * 5280 ft / mile = 16,896 ft. / 725 ft per sheet coverage = 24 sheets. Eagle lake Loop rd = 482 ft / 725ft per sheet = 1 sheets; Rifle range Rd = 1000 ft / 725 ft per sheet = 2 sheets.; Pollard Road = 1000 ft / 725 ft per sheet = 2 sheets; Innovation Way = 425 ft / 725 ft per sheet = 1 sheet; Total Profile sheets = 30 sheets
5.9	Plan Sheet	50	Sheet	30	6	180	3.2 miles project length * 5280 ft / mile = 16,896 ft. / 725 ft per sheet coverage = 24 sheets. Eagle lake Loop rd = 482 ft / 725ft per sheet = 1 sheets; Rifle range Rd = 1000 ft / 725 ft per sheet = 2 sheets.; Pollard Road = 1000 ft / 725 ft per sheet = 2 sheets; Innovation Way = 425 ft / 725 ft per sheet = 1 sheet; Total Plan sheets = 30 sheets
5.10	Special Profile		Sheet	4	14	56	Old Riffle Range Rd connection (1); (1) Cul de sac at Rifle Range Rd and (1) Cul de Sac at Warhausen Rd; (1) Connection to New Rifle Range road
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) Old Riffle Range Rd connection; (1) Eagle Lake Loop Rd. (1) Riffle Range Rd Connection to TNR. (1) Old Riffle Range rd to new riffle range connection (1) Pollard Rd; (1) Innovation Way. Total = 6 intersection Detail sheets
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	228	0.5	114	Project Length = 16,896 ft. / 100 ft cross sections = 169 cross sections; Eagle lake Loop rd = 482 ft / 50 ft cross sections= 10 cross sections; Rifle range Rd = 1000 ft / 50 ft cross sections = 20 cross sections; Pollard Road = 1000 ft / 50 ft cross sections = 20 cross sections; Innovation Way = 425 ft / 50 ft cross sections = 9 cross sections. Total Cross sections = 228 cross sections
5.19	Temporary Traffic Control Plan Sheets	50	Sheet	120	6	720	Project length + side streets = 30 sheets * 4 TCP phases = 120 sheets
5.20	Temporary Traffic Control Cross Section Sheets		EA	0	0	0	N/A
5.21	Temporary Traffic Control Detail Sheets		Sheet	11	10	110	(2) General TCP notes (2) TCP Phasing notes w/ typicals (2) Advance TTCP signs (1) Detour sheet for Eloise Loop Rd and Rifle Range Rd, (1) Detour Riffle Range North side (1) Detour Riffle Range Rd South side (1) Detour at Pollard Rd (1) Detour at Innovation way. Total sheets = 11 sheets
5.22	Utility Adjustment Sheets		Sheet	30	9	270	30 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	
Roadway Plans Technical Subtotal						2134	
5.28	Quality Assurance/Quality Control		LS	%	5%	107	
5.29	Supervision		LS	%	5%	107	
5. Roadway Plans Total						2348	

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 <small>Provide documentation when negotiated hours differ from the calculated hours.</small>
		Description	Units	Complexity	Calculated	Department	Consultant	Negotiated	
6a.1	Base Clearance Analysis	Locations	1	Standard	8	0	0	8	
		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	0		0	0	0	0	
		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	1	Standard	80	0	0	80	Bridge crossing through Wahnetta Farms Drainage Canal
		w/o Relief Bridges	1	Standard	200	0	0	200	Bridge crossing through Wahnetta Farms Drainage Canal
	Bridge Hydraulic Report (Main Bridge, Non-Tidal)	With Relief Bridges	0		0	0	0	0	
		No-Rise	0		0	0	0	0	
		w/o Relief Bridges	0		0	0	0	0	
	Bridge Hydraulic Report (Main Bridge, Tidal)	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	
	Design of Major Cross Drains	Cross Drains	0	Simple	0	0	0	0	
			3	Standard	72	0	0	72	3 standard cross drain
6a.11	Design of Ditches and Side Drains	Ditches (Miles)	0.00	Simple	0	0	0	0	
			6.40	Standard	128	0	0	128	Assumed 6.4 miles (2x length of project)
			0.00	Complex	0	0	0	0	
		Side Drains	20		40	0	0	40	Based on driveway crossings and possible maintenance access points to ponds
6a.12	Design of Stormwater Management Facility	Ponds	0	Simple	0	0	0	0	
			0	Standard	0	0	0	0	
		6	Complex	600	0	0	600	Pond 4, 4a, 5, 6, 7, 8	
		Cells	0		0	0	0	0	

6a.13	Design of Floodplain Compensation	Basins	4	Complex	272	0	0	272	From PSR, number of anticipated basins with FPC
6a.14	Design of Storm Drains	Drainage Structures	196	Standard	686	0	0	686	project length 3.2 miles roughly 17000 ft.
		Non-Standard Structures	6		18	0	0	18	
6a.15	Optional Culvert Material	Drainage Pipes	196	Standard	42	0	0	42	
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)	3.20	Complex	20	0	0	20	
6a.20	Other Drainage Tasks	LS			0	0	0	0	
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	10		80	0	0	80	
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	
Drainage Analysis Technical Subtotal					2417	0	0	2417	
6a.25	Quality Assurance/Quality Control	LS	1	5%	121	0	0	121	
6a.26	Supervision	LS	1	5%	121	0	0	121	
6a.27	Drainage Meetings (listed below)	Meetings	30		60	0	0	60	
		Travel Time			8	0	0	8	
6a.28	Field Reviews (listed below)	LS			54	0	0	54	
Drainage Analysis Non-Technical Subtotal					364	0	0	364	
6a.29	Coordination	%	1	3%	84	0	0	84	
Drainage Analysis Total					2865	0	0	2865	

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)	1	3	1	
FDOT Drainage	0	0	0	
Utility Coordination	1	0	1	
Other Meetings	2	0	2	
Subtotal Technical Meetings	9	6	9	
Progress Meetings (if required by FDOT)	19	2		
Phase Review Meetings	2	0		
Total Drainage Meetings	30	8		

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
Total Field Review Hours				54

Estimator:

Thompson Nursery Road Extension
Task 1

Representing	Print Name	Signature / Date
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	8	24	192	assumes 200 scale at 2800 lf per sheet; 7 post developed map + 1 Exist. Structures Sheet
6b.2	Summary of Drainage Structures		Sheet	7	20	140	202 structure/ 30 structures / sheet = 7 sheets
6b.3	Drainage Structures		EA	202	2.5	505	Project length 17,000 ft / 200ft per inlet * 2 inlets per C&G side = 170. 6 ponds 1 outfall structure and 1 control structure per pond. 5 FPCs 1 outfall structure per FPC. 5 side streets 3 inlets per side street (1 junction 1 for each side of curb). 170+12+5+15 = 202
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 4, 4a, 5, 6, 7, 8 + FPC 4, 5, 6a, 6b, 7
6b.7	Retention Pond Cross Sections		EA	96	0.25	24	Pond cross sections (16 per pond)
6b.8	Erosion Control Plan Sheets		Sheet	28	4	112	Erosion Control Plan Sheets, same as roadway plan sheets
6b.9	SWPPP Sheets		Sheet	3	4	12	SWPPP information
Drainage Plans Technical Subtotal						1345	
6b.10	Quality Assurance/Quality Control		LS	%	7%	94	
6b.11	Supervision		LS	%	5%	67	
6. Drainage Plans Total						1506	

Project Activity 7: Utilities

Estimator: Jerry Comellas, Jr., PE

Thompson Nursery Road Extension from Eloise Loop Rd. (Sta. 125+00) to W. of Rialto Rd. (Sta. 292+65) (Segment #2)

0

Representing	Print Name	Signature / Date
Polk County		
ECHO UES, Inc.	Jerry Comellas, Jr. PE	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
7.1	Utility Kickoff Meeting	LS	1	1	1	Meeting is listed below
7.2	Identify Existing Utility Agency Owner(s)	LS	1	8	8	1 hours X 8 UAO's = 8 hours
7.3	Make Utility Contacts	LS	3	8	24	1 hr X 8 UAO's X 3 contacts (Phase I, Phase II and Phase 3) = 24 Hours
7.4	Exception Processing	LS	1	0	0	N/A
7.5	Preliminary Utility Meeting	LS	1	8	8	2 hour prep + 2 hour travel + 2 hour meeting + 2 hour meeting Minutes = 8 hours (Meeting is listed below)
7.6	Individual/Field Meetings	LS	1	16	16	2 hour prep + 2 hour travel + 2 hour meeting + 2 hour meeting Minutes = 8 hours X 2 meetings= 16 (Meetings are listed below)
7.7	Collect and Review Plans and Data from UAO(s)	LS	3	16	48	2 hours x 8 UAO's x 3 contacts = 48 hours
7.8	Subordination of Easements Coordination	LS	1	0	0	N/A
7.9	Utility Design Meeting	LS	1	8	8	2 hour prep + 2 hour travel + 2 hour meeting + 2 hour meeting minutes= 8 hours (Meeting is listed below)
7.10	Review Utility Markups & Work Schedules, and Processing of Schedules & Agreements	LS	1	24	24	3 hours X 8 UAO's = 24 hours
7.11	Utility Coordination/Followup	LS	1	40	40	5 hours X 8 UAO's = 40 hours
7.12	Utility Constructability Review	LS	1	16	16	2 hours X 8 UAO's = 16 hours

Project Activity 7: Utilities

7.13	Additional Utility Services	LS	1	0	0	N/A
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS	1	0	0	To be negotiated at a later date if needed
7.15	Contract Plans to UAO(s)	LS	1	0	0	N/A
7.16	Certification/Close-Out	LS	1	0	0	1 hour X 8 UAO's = 8 Hours
7.17	Other Utilities	LS	1	0	0	N/A
7. Utilities Total					193	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Kickoff (see 7.1)	EA	1	1	1			0
Preliminary Meeting (see 7.5)	EA	1	8	8			0
Individual UAO Meetings (see 7.6)	EA	1	8	8			0
Field Meetings (see 7.6)	EA	1	8	8			0
Design Meeting (see 7.9)	EA	1	8	8			0
Other Meetings (this is automatically added into Utilities Total (cell F27))	EA	0	0	0			0
Total Meetings				33	Total Project Manager Meetings (carries to Tab 3)		0

Carries to Tab 3

Project Activity 8: Environmental Permits

Estimator:

Thompson Nursery Extension - Segment 2 Design

TNR Seg 2

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
Environmental Permits and Environmental Clearances						
8.1	Preliminary Project Research	LS	1	12	12	Review permits, summarize other segments, etc.
Permits						
8.2	Field Work					
8.2.1	Pond Site Alternatives	per pond site	12	4	48	Assumes 6 pond sites and 6 FPCs
8.2.2	Establish Wetland Jurisdictional Lines and Assessments	LS	1	80	80	WL & SHW
8.2.3	Species Surveys	LS	1	732	732	General wildlife survey, FBB survey + report (250 hrs), FSJ survey + report (106 hrs), sand skink survey + report (316 hrs), GT survey (60 hrs)
8.3	Agency Verification of Wetland Data	LS	1	16	16	SWFWMD/USACE
8.4	Complete And Submit All Required Permit Applications					
8.4.1	Complete and Submit All Required Wetland Permit Applications	LS	1	80	80	SWFWMD/USACE
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	
8.6	Complete and Submit Documentation for Coordination and/or USCG Bridge Permit Application					
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

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
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	
Environmental Clearances, Reevaluations, and Technical Support						
8.14	Technical support to the Department for Environmental Clearances and Reevaluations (use when consultant provides technical support only)					
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	Preparation of Environmental Clearances and Reevaluations (use when consultant prepares all documents associated with reevaluation)					
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	
Contamination Analysis						
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
Environmental Permits and Environmental Clearances/Reevaluations Technical Subtotal					984	
8.18	Technical Meetings	LS	1	34	34	Meetings are listed below
8.19	Quality Assurance/Quality Control	LS	%	7%	69	
8.20	Supervision	LS	%	5%	49	
Environmental Permits and Environmental Clearances Nontechnical Subtotal					152	
8.21	Coordination	LS	%	3%	34	
8. Environmental Permits and Environmental Clearances Total					1170	

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
Subtotal Technical Meetings				6		Subtotal Project Manager Meetings	3
Progress Meetings (if required by Polk County)	EA	14	2	28	<i>Attendance at Progress Meetings is manually entered on General Task 3</i>		--
Phase Review Meetings	EA	0	0	0	<i>Phase Review Meetings is manually entered on General Task 3</i>		--
Total Meetings				34	Total Project Manager Meetings (carries to Tab 3)		3

Carries to 8.18

Carries to Tab 3

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

Estimator:

Thompson Nursery Extension - Segment 2 Design

TNR Seg 2

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					
General Drawings											
9.1	Key Sheet and Index of Drawings	Sheet	1	8	1	8	two bridges and a culvert bridge				
9.2	Project Layout	Sheet	1	10	1	10	multiple bridges over 3 mile roadway				
9.3	General Notes and Bid Item Notes	Sheet	2	20	2	40	concrete and steel 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 Quantities for EQ Report	Bridges	2	Calculated Hours		34					
		Walls	2								
		Box Culverts	1								
9.9	Cost Estimate	LS	1	0		0					
9.10	Technical Special Provisions and Modified Special Provisions	LS	1	0		0					
Structures - Summary and Miscellaneous Tasks and Drawings					13	114					
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	2749	334	0	0	890	1525	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	284								284	
18	Miscellaneous Structures	302									302
Structures Technical Subtotal		3335	334	0	0	890	1525	0	0	284	302
Task No.	Task	Units	No. of Units	Hours per Unit	Total	Comments					
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%	241						
9.14	Independent Peer Review	LS	1	0	0	n/a					
9.15	Supervision	LS	%	5%	172						
Structures Nontechnical Subtotal					487						
9.16	Coordination	LS	1	156	156	roadway (40hrs) + utility (8) + Railroad (64) + permit (8) + geotech (16) + bridge hydraulics (20) = 156					
9. Structures - Summary and Miscellaneous Tasks and Drawings					757						

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
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
Subtotal Technical Meetings				18			1
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		--
Total Meetings				50	Total Project Manager Meetings (carries to Tab 3)		1

Project Activity 10: BDR

Estimator:

Thompson Nursery Extension - Segment 2 Design

Bridge Identifier (Number or Name):

TNR Seg 2

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
General Requirement							
10.1	Bridge Geometry	LS	1	20		20	skewed, possibly curved
10.2	Ship Impact Data Collection	LS	1	0		0	
10.3	Ship Impact Criteria	EA	0	0		0	
Superstructure Alternatives							
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	
Foundation & Substructure Alternatives							
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
Movable Span							
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

Task No.	Task	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
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	
Other BDR Issues							
10.24	Aesthetics	LS	1	0		0	
10.25	TTCP/Staged Construction Requirements	LS	1	0		0	
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
Report Preparation							
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	24		24	
10.34	Report Preparation - Movable Span	LS	1	0		0	
10.35	BDR Submittal Package	LS	1	8		8	
10. Structures - Bridge Development Report Total						334	
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.							

Project Activity 13: Structures- Medium Span Concrete

Estimator:

Thompson Nursery Extension - Segment 2 Design

Bridge Identifier (Number or Name):

TNR Seg 2

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
General Layout Design and Plans							
13.1	Overall Bridge Final Geometry	LS	1	45		45	Skewed bents and on a curve - dual bridges
13.2	Expansion/Contraction Analysis	EA Unit	1	4		4	
13.3	General Plan and Elevation	Sheet	2	35	2	70	
13.4	Construction Staging	Sheet	0	0	0	0	
13.5	Approach Slab Plan and Details	Sheet	2	20	2	40	Curved approach slab detailing
13.6	Miscellaneous Details	Sheet	1	15	1	15	For lighting details on bridge
End Bent Design and Plans							
13.7	End Bent Geometry	EA End Bent	4	16		64	Two end bents, skewed end condition- dual bridges
13.8	Wingwall Design and Geometry	EA End Bent	4	10		40	Two end bents, curved wingwalls - dual bridges
13.9	End Bent Structural Design	EA Design	4	20		80	Beam over pile with beam skew - dual bridges
13.10	End Bent Plan and Elevation	Sheet	4	25	4	100	dual bridges Skewed bents
13.11	End Bent Details	Sheet	4	18	4	72	Skewed end bents with curved wingwalls, assuming one sheet for cross sections and one sheet for wingwalls for each bent
Intermediate Bent Design and Plans							
13.12	Bent Geometry	EA Bent	0	0		0	Skewed geometry
13.13	Bent Stability Analysis	EA Design	0	0		0	Assuming moderate scour
13.14	Bent Structural Design	EA Design	0	0		0	Beam over pile
13.15	Bent Plan and Elevation	Sheet	0	0	0	0	
13.16	Bent Details	Sheet	0	0	0	0	
Pier Design and Plans							
13.17	Pier Geometry	EA Pier	0	0		0	
13.18	Pier Stability Analysis	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
13.19	Pier Structural Design	EA Design	0	0		0	
13.20	Pier Plan and Elevation	Sheet	0	0	0	0	
13.21	Pier Details	Sheet	0	0	0	0	
Miscellaneous Substructure Design and Plans							
13.22	Foundation Layout	Sheet	1	16	1	16	
Superstructure Deck Design and Plans							
13.23	Finish Grade Elevation (FGE) Calculation	LS	1	30		30	curved deck and skewed beams - dual bridges
13.24	Finish Grade Elevations	Sheet	2	18	2	36	dual bridges
13.25	Bridge Deck Design	EA Section	1	18		18	
13.26	Bridge Deck Reinforcing and Concrete Quantities	EA Unit	2	12		24	skew - dual bridges
13.27	Diaphragm Design	EA Section	0	0		0	
13.28	Superstructure Plan	Sheet	2	25	2	50	dual bridges
13.29	Superstructure Section	Sheet	2	16	2	32	
13.30	Miscellaneous Superstructure Details	Sheet	1	25	1	25	
Reinforcing Bar Lists							
13.31	Preparation of Reinforcing Bar List	Sheet	2	8	2	16	
Continuous Concrete Girder Design							
13.32	Section Properties	LS	1	0		0	
13.33	Material Properties	LS	1	0		0	
13.34	Construction Sequence	EA Unit	0	0		0	
13.35	Tendon Layouts	EA Unit	0	0		0	
13.36	Live Load Analysis	EA Unit	0	0		0	
13.37	Temperature Gradient	EA Unit	0	0		0	
13.38	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	
13.41	Ultimate Shear	EA Unit	0	0		0	
13.42	Construction Loading	EA Unit	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
13.43	Framing Plan	Sheet	0	0	0	0	
13.44	Girder Elevation, including Grouting Plan and Vent Locations	Sheet	0	0	0	0	
13.45	Girder Details	Sheet	0	0	0	0	
13.46	Erection Sequence	Sheet	0	0	0	0	
13.47	Splice Details	Sheet	0	0	0	0	
13.48	Girder Deflections and Camber	Sheet	0	0	0	0	
Simple Span Concrete Design							
13.49	Prestressed Beam	EA Design	6	8		48	dual bridges- interior and both exteriors
13.50	Prestressed Beam Schedules	Sheet	1	25	1	25	
13.51	Framing Plan	Sheet	2	0	2	0	
Beam Stability							
13.52	Beam/girder stability	EA Unit	2	8		16	dual bridges
Bearing							
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	
Load Rating							
13.55	Load Ratings	Per Beam	2	12		24	
13. Structures - Medium Span Concrete Bridge Total					26	890	

Project Activity 14: Structures -Structural Steel

Estimator:

Thmopson Nursery Extension - Segment 2 Design

Bridge Identifier (Number or Name):

TNR Seg 2

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
General Layout Design and Plans							
14.1	Overall Bridge Final Geometry	LS	1	30		30	Straight bridge; single span, dual bridges
14.2	Expansion/Contraction Analysis	EA Unit	2	8		16	
14.3	General Plan and Elevation	Sheet	2	30	2	60	
14.4	Construction Staging	Sheet	2	20	2	40	
14.5	Approach Slab Plan and Details	Sheet	1	12	1	12	
14.6	Miscellaneous Details	Sheet	0	0	0	0	
End Bent Design and Plans							
14.7	End Bent Geometry	EA Bent	4	10		40	
14.8	Wingwall Design and Geometry	EA Bent	0	0		0	
14.9	End Bent Structural Design	EA Design	1	40		40	
14.10	End Bent Plan and Elevation	Sheet	4	18	4	72	

Project Activity 14: Structures -Structural Steel

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
14.11	End Bent Details	Sheet	3	16	3	48	
Intermediate Bent Design and Plans							
14.12	Bent Geometry	EA bent	0	0		0	
14.13	Bent Stability Analysis	EA design	0	0		0	
14.14	Bent Structural Design	EA design	0	0		0	
14.15	Bent Plan and Elevation	Sheet	0	0	0	0	
14.16	Bent Details	Sheet	0	0	0	0	
Pier Design and Plans							
14.17	Pier Geometry	EA pier	0	0		0	
14.18	Pier Stability Analysis	EA design	0	0		0	
14.19	Pier Structural Design	EA design	0	0		0	
14.20	Pier Plan and Elevation	Sheet	0	0	0	0	
14.21	Pier Details	Sheet	0	0	0	0	
Miscellaneous Substructure Design and Plans							
14.22	Foundation Layout	Sheet	1	18	1	18	
Superstructure Deck Design and Plans							
14.23	Finish Grade Elevation (FGE) Calculation	LS	1	30		30	dual bridges
14.24	Finish Grade Elevations	Sheet	2	15	2	30	dual bridges
14.25	Bridge Deck Design	EA section	1	20		20	

Project Activity 14: Structures -Structural Steel

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
14.26	Bridge Deck Reinforcing and Concrete Quantities	EA Unit	2	12		24	dual bridges

Project Activity 14: Structures -Structural Steel

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
14.27	Superstructure Plan	Sheet	2	22	2	44	dual bridges
14.28	Superstructure Section	Sheet	1	14	1	14	
14.29	Miscellaneous Bridge Deck Details	Sheet	2	25	2	50	
Reinforcing Bar Lists							
14.30	Preparation of Reinforcing Bar List	Sheet	2	10	2	20	
Structural Steel Plate Girder Design							
14.31	Unit Modeling	EA Unit	2	35		70	
14.32	Section Design	EA Unit	2	35		70	
14.33	Stiffener Design and Locations	EA Unit	2	12		24	
14.34	Cross-Frame Design	EA Unit	2	8		16	
14.35	Connections	EA Unit	2	24		48	
14.36	Bearing Assembly Design and Detailing (with Jacking Analysis)	EA Unit	2	16		32	
14.37	Splice Design	EA Unit	2	20		40	
14.38	Shear Stud Connectors	EA Unit	2	10		20	
14.39	Deflection Analysis	EA Unit	2	20		40	
14.40	Framing Plan	Sheet	2	24	2	48	
14.41	Girder Elevation	Sheet	2	24	2	48	
14.42	Structural Steel Details	Sheet	4	25	4	100	

Project Activity 14: Structures -Structural Steel

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
14.43	Splice Details	Sheet	1	16	1	16	
14.44	Girder Deflections and Camber	Sheet	1	12	1	12	
Structural Steel Box Girder Design							
14.45	Unit Modeling	EA Unit	0	0		0	
14.46	Section Design	EA Unit	0	0		0	
14.47	Stiffener Design and Locations	EA Unit	0	0		0	
14.48	Interior Cross-Frame Design	EA Unit	0	0		0	
14.49	Exterior Cross-Frame Design	EA Unit	0	0		0	
14.50	Connections	EA Unit	0	0		0	
14.51	Bearing Assembly Design and Detailing (with Jacking Analysis)	EA Unit	0	0		0	
14.52	Splice Design	EA Unit	0	0		0	
14.53	Shear Stud Connectors	EA Unit	0	0		0	
14.54	Deflection Analysis	EA Unit	0	0		0	
14.55	Framing Plan	Sheet	0	0	0	0	
14.56	Girder Elevation	Sheet	0	0	0	0	
14.57	Structural Steel Details	Sheet	0	0	0	0	
14.58	Splice Details	Sheet	0	0	0	0	
14.59	Girder Deflections and Camber	Sheet	0	0	0	0	

Project Activity 14: Structures -Structural Steel

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Erection Scheme							
14.60	Erection scheme analysis	EA Critical Stage	2	24		48	
14.61	Erection scheme	Sheet	15	15	15	225	
Load Rating							
14.62	Load Rating	EA Unit	2	30		60	
14. Structures - Structural Steel Bridge Total					47	1525	

Project Activity 17: Retaining Walls

Estimator:

Thompson Nursery Extension - Segment 2 Design

TNR Seg 2

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
General Requirements							
17.1	Key Sheet	Sheet	1	20	1	20	
17.2	Horizontal Wall Geometry	Per Wall	2	10		20	turn back walls that follow the roadway for a significant length - curved
Permanent Proprietary Walls							
17.3	Vertical Wall Geometry	Per Wall	2	16		32	turn back walls that follow the roadway for a significant length - curved
17.4	Semi-Standard Drawings	Sheet	2	6	2	12	
17.5	Wall Plan and Elevations (Control Drawings)	Sheet	7	20	7	140	2 walls - length ~3500 LF (23.5ft clearance +12ft superstructure = 35ft above ground with a slope of 4% (assumed) = 875 ft per side *4 sides = 3500)
17.6	Details	Sheet	3	20	3	60	
Temporary Proprietary Walls							
17.7	Vertical Wall Geometry	Per Wall	0	0		0	
17.8	Semi-Standard Drawings	Sheet	0	0	0	0	
17.9	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	
17.10	Details	Sheet	0	0	0	0	
Cast-in-Place Retaining Walls							
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	

Project Activity 17: Retaining Walls

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Other Retaining Walls and Bulkheads							
17.17	Design	EA Design	0	0		0	
17.18	Vertical Wall Geometry	EA Wall	0	0		0	
17.19	General Notes, Tables and Misc. Details	Sheet	0	0	0	0	
17.20	Wall Plan and Elevations	Sheet	0	0	0	0	
17.21	Details	Sheet	0	0	0	0	
17. Structures - Retaining Walls Total					13	284	

Project Activity 18: Miscellaneous Structures

Estimator:

Thompson Nursery Extension - Segment 2 Design

TNR Seg 2

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
Concrete Box Culvert							
18.1	Concrete Box Culverts	EA	1	90		90	With load rating and assuming non-standard headwall design
18.2	Concrete Box Culverts Extensions	EA Extension	0	0		0	
18.3	Concrete Box Culvert Data Table Plan Sheets	Sheet	1	8	1	8	
18.4	Concrete Box Culvert Special Details Plan Sheets	Sheet	0	0	0	0	
Strain Poles							
18.5	Steel Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
18.6	Concrete Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
18.7	Strain Pole Data Table Plan Sheets	Sheet	0	0	0	0	
18.8	Strain Pole Special Details Plan Sheets	Sheet	0	0	0	0	
Mast Arms							
18.9	Mast Arms	EA Design	10	18		180	
18.10	Mast Arms Data Table Plan Sheets	Sheet	1	8	1	8	
18.11	Mast Arm Special Details Plan Sheets	Sheet	1	16	1	16	Assuming 1-2 non-standard mast arms
Overhead/Cantilever Sign Structures							
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	
High Mast Lighting							
18.19	Non-Standard High Mast Lighting Structures	EA Design	0	0		0	
18.20	High Mast Lighting Special Details Plan Sheets	Sheet	0	0	0	0	
Noise Barrier Walls (Ground Mount)							
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	
Special Structures							

Project Activity 18: Miscellaneous Structures

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	
Ancillary Structures Report							
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	
18. Structures - Miscellaneous Total					3	302	

Project Activity 19: Signing and Pavement Marking Analysis

Estimator:

Thompson Nursery Extension - Segment 2 Design

TNR Seg 2

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	416.2	416	[45 hours (setup) + 90 hours/mile x 3.68 miles] + 8hrs x 5 signalized intersections (Eloise Loop, Eagle Lake Loop Rd, Rifle Range Rd, Logistics Pkwy) = 416 hours
19.4	Multi-Post Sign Support Calculations	EA	10	3	30	3 hours x 10 signs (next signal -NB & SB approach Eloise Loop, NB, SB, EB & WB approach Eagle Lake Loop Rd, NB & SB approach Rifle Range Rd, EB & WB approach Logistics Parkway) = 30 hours
19.5	Sign Panel Design Analysis	EA	5	3	15	3 hours x 5 signs = 15 hours (TNR, Eagle Lake Loop, Eloise Loop, Rifle Range, Logistics Parkway)
19.6	Sign Lighting/Electrical Calculations	EA	1	0	0	N/A
19.7	S&PM Quantities for EQ Report	Length (Miles)	3.68	Calculated Hours	31	3.68 miles = 19,430 feet 20 hours (first 5,280 feet) + 4 hour (each additional 5,280 feet) = 31 hours
		Complexity	Mid Range			
		Interchanges Rest Areas	0	31		
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	40	40	Multipost documentation (8 x 5 hours = 40 hours). To be submitted at 60% submittal. Assume no conceptual signing plan included
Signing and Pavement Marking Analysis Technical Subtotal					552	
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%	39	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	5%	28	
Signing and Pavement Marking Analysis Nontechnical Subtotal					93	
19.16	Coordination	LS	%	3%	19	
19. Signing and Pavement Marking Analysis Total					664	

Project Activity 19: Signing and Pavement Marking Analysis

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments		
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
Subtotal Technical Meetings					12		Subtotal Project Manager Meetings	2
	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	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
Total Meetings					30		Total Project Manager Meetings (carries to Tab 3)	2

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)	28	Mid	112	0	0	112	28 plan sheets 1" = 50' scale (25 Thompson Nursery + 1 sheet Rifle Range Connection, 1 sheet Pollard Rd Connection, & 1 sheet Logistics Pkwy) 700 ft/sheet
		Sig Intersection Mid-Block Xing	1		2	0	0	2	RRFB Crossing at Pollard Road
		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	RRFB Crossing at Pollard Road
			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	5		10	0	0	10	5 signs (TNR, Eagle Lake Loop, Eloise Loop, Rifle Range, Logistics Parkway)
20.8	Cross Sections (Sign Installations)	Multi-post signs	10		30	0	0	30	10 signs (next signal -NB & SB approach Eloise Loop, NB, SB, EB & WB approach Eagle Lake Loop Rd, NB & SB approach Rifle Range Rd, EB & WB approach Logistics Parkway)
		Overhead Sign Structures	0	Standard	0	0	0	0	
			0	Complex	0	0	0	0	
S&PM Plans Technical Hours Subtotal					171	0	0	171	
20.9	Quality Assurance/Quality Control	%	1	5%	9	0	0	9	
20.10	Supervision	%	1	5%	9	0	0	9	
S&PM Plans Total					189	0	0	189	

Carries to Summary Tab

Project Activity 21: Signalization Analysis

Estimator:

Thompson Nursery Extension - Segment 2 Design

TNR Seg 2

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	4	38	152	4 Intersections (Eloise Loop*, Eagle Lake Loop, Rifle Range, & Logistics Pkwy) *Eloise Loop was signalized under Segment 1. Adding pedestrian signals to the south leg under segment 2
21.6	Reference and Master Interconnect Communication Design File	LS	1	96.32	96	8 hours (setup) + 24 hours/mile x 3.68 miles = 96 hours
21.7	Overhead Street Name Sign Design	EA	10	3	30	10 signs Eagle Lake Loop (2 signs), Rifle Range (2 signs), Logistics Pkwy (2 signs), Thompson Nursery (4 signs) Including address numbers
21.8	Pole Elevation Analysis	LS	1	3	3	2 hours (first intersection) + 1 hour (1 additional intersection) 2 intersections (Rifle Range Rd & Logistics Pkwy)
21.9	Traffic Signal Operation Report	LS	1	0	0	N/A
21.10	Signalization Quantities for EQ Report	Signalized Intersections	4	Calculated Hours 32	32	20 hours (first intersection) + 4 hours (3 additional intersection) = 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	
Signalization Analysis Technical Subtotal					313	
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	%	0%	0	
21.17	Independent Peer Review	LS	%	0%	0	

Project Activity 21: Signalization Analysis

21.18	Supervision	LS	%	0%	0	
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Project Activity 21: Signalization Analysis

Signalization Analysis Nontechnical Subtotal				74	
21.19	Coordination	LS	%	0%	0
21. Signalization Analysis Total				387	

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
Subtotal Technical Meetings				28		Subtotal Project Manager Meetings	4
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	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
Total Meetings				46		Total Project Manager Meetings (carries to Tab 3)	4

Carries to 21.15

Carries to Tab 3

Estimator:

22. Signalization Plans Staff Hours

Thompson Nursery Extension - Segment 2 Design
TNR Seg 2

Representing		Print Name							Signature / Date	
Polk County										
Kimley-Horn and Associates										
<i>NOTE: Signature Block is optional, per District preference</i>										
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.	
What is the overall project complexity? (See Signalization Guidelines)										
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	4	Mid	16	0	0	16		
22.4	Interconnect Plan Sheets	Sheet(s)	14	Mid	56	0	0	56	14 Plan Sheets (19,430 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	10		20	0	0	20	10 signs Eagle Lake Loop (2 signs), Rifle Range (2 signs), Logistics Pkwy (2 signs), Thompson Nursery (4 signs) Including address numbers	
22.7	Special Details	Details	0	Simple	0	0	0	0		
			8	Standard	16	0	0	16	4 intersection corner details with pedestrian detail 4 plan sheets (FDOT D1 emergency pre-emption plan sheet for 4 intersections)	
			4	Complex	16	0	0	16	4 plan sheets (FDOT D1 clearance calculation plan sheet for 4 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	10	Single Mast Arm	10	0	0	10	4 arms @ Eagle Lake Loop, 3 arms at Rifle Range Road, 3 arms at Logistics Parkway	
			0	Double Mast Arm	0	0	0	0		
22.10	Strain Pole Schedule	Span	0		0	0	0	0		
22.11	TTCP Signal	Intersections w/o ped signal	0		0	0	0	0		
		Intersections with ped signal	2	Mid	48	0	0	48		
22.12	Temporary Detection Sheet	Intersections	0		0	0	0	0		
Signalization Plans Technical Hours Subtotal					197	0	0	197		
20.13	Quality Assurance/Quality Control	%	1	5%	10	0	0	10		
20.14	Supervision	%	1	5%	10	0	0	10		
Signalization Plans Total					217	0	0	217		

Carries to Summary Tab

Project Activity 23: Lighting Analysis

Estimator:

Thompson Nursery Extension - Segment 2 Design

TNR Seg 2

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	48	48	Three (3) Signalized Intersections @ 10 hrs each = 30 hrs One (1) Modified Signalized Intersection @ 10 hrs each = 10 hrs One (1) Mid Block Crossing @ 8 hrs each = 8 hrs
23.3	Voltage Drop Calculations	EA	5	3	15	Four (4) New Circuits @ 3 hrs each = 12 hrs One (1) Modified Circuit @ 3 hrs each = 3 hrs
23.4	FDEP Coordination and Report	LS	0	0	0	N/A
23.5	Reference and Master Design Files	LS	1	72	72	Three (3) Signalized Intersections @ 15 hrs each = 45 hrs One (1) Modified Signalized Intersection @ 15 hrs each = 15 hrs One (1) Mid Block Crossing @ 12 hrs each = 12 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	27	Calculated Hours 30	30	Assume 9 light poles per full signalized intersection @ 1 signalized intersections = 9 poles Assume 6 light poles per signalized T-intersection @ 2 signalized intersections = 12 poles Assume 4 light poles per modified signalized intersection @ 1 signalized intersection = 4 poles Assume 2 light poles per midblock crossing @ 1 midblock crossing = 2 poles 0.5 hr per pole after 8 = 9.5 additional hours + 20 hrs base
23.9	Cost Estimate	LS	1	16	16	Four (4) submittals (60%, 90%, 100%, Final) @ 4 hrs per submittal = 16 hrs
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
Lighting Analysis Technical Subtotal					181	
23.12	Field Reviews	LS	2	8	16	Two (2) field reviews @ 8 hrs each = 2 hrs travel time + 3 hr site visit x 2 people per visit = 16 hrs
23.13	Technical Meetings	LS	1	20	20	
23.14	Quality Assurance/Quality Control	LS	%	7%	13	
23.15	Independent Peer Review	LS	%	0%	0	
23.16	Supervision	LS	%	5%	9	
Lighting Analysis Nontechnical Subtotal					58	
23.17	Coordination	LS	%	3%	7	

Project Activity 23: Lighting Analysis

23. Lighting Analysis Total	246
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Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	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
Subtotal Technical Meetings				20	Subtotal Project Manager Meetings		8
Progress Meetings (if required by Polk County)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
Total Meetings				20	Total Project Manager Meetings (carries to Tab 3)		8

Carries to 23.13

Carries to Tab 3

Estimator:

24. Lighting Plans Staff Hours

Thompson Nursery Extension - Segment 2 Design
TNR Seg 2

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	
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	27		11	0	0	11	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	5		20	0	0	20	Five (5) 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	
			5	Standard	60	0	0	60	Five (5) service point details, one (1) per signalized intersection/midblock crossing @ 12 hrs each
			0	Complex	0	0	0	0	
24.8	Temporary Highway Lighting		0		0	0	0	0	
Lighting Plans Technical Hours Subtotal					116	0	0	116	
24.9	Quality Assurance/Quality Control	%	1	5%	6	0	0	6	
24.10	Supervision	%	1	5%	6	0	0	6	
Lighting Plans Total					128	0	0	128	

Carries to Summary Tab

27. Survey (SUE)

Estimator: Jerry Comellas, Jr., PE

Thompson Nursery Road Extension from Eloise Loop Rd. (Sta. 125+00) to W. of Rialto Rd. (Sta. 292+65) (Segment #2)

0

Representing	Print Name	Signature / Date
Polk County		
ECHO UES, Inc.	Jerry Comellas, Jr., PE	

NOTE: Signature Block is optional, per District preference

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)									
	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									
	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. Survey (SUE)

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
27.6	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	
27.9	Side Street Surveys	Mile			0.00		0.00		0.00	
27.10	Underground Utilities									<p>Designating (Toneable-SUE QLB): 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, pedestrian signal pole foundations, light pole foundations, bridge foundations, and drainage structures) that may conflict with the existing underground utilities = Ten (10) roadway segments = 70,000 LF (13.258 miles) of underground utilities.</p>
	Designates	Mile	13.258	1.51	20.00	2.00	40.00	3.00	60.00	<p>Locating (Potential Utility Conflicts-SUE QLA): 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"> - 21 light pole foundations x 2THs/foundation = 42THs - 10 mast arm foundations x 5THs/foundation = 50THs - 95 drainage structures x 2THs/structure = 190THs - 1 CSX Bridge = 12THs - 1 Bridge culvert = 12THs - 1 Bridge crossing = 6THs <p>TOTAL = 312 test holes</p> <p>Surveying: Survey and map all designated and located existing underground utilities.</p>
	Locates	Point	312	0.125	39.00	1.00	39.00	2.00	78.00	
	Survey	%	25%	59.00	14.75	2.00	29.50	3.00	44.25	
27.11	Outfall Survey	Mile			0.00		0.00		0.00	
27.12	Drainage Survey	EA		Units/Day	0.00		0.00		0.00	
27.13	Bridge Survey	EA			0.00		0.00		0.00	
	Minor / Major	EA			0.00		0.00		0.00	
27.14	Channel Survey	EA			0.00		0.00		0.00	

27. Survey (SUE)

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
27.15	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	
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									
		Point			0.00		0.00		0.00	
27.26	Line Cutting									
		Mile			0.00					
27.27	Work Zone Safety									MOT, Lane Closures
		LS	73.75	0.125	9.22					
27.28	Vegetation Survey									

27. Survey (SUE)

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
		LS							0	
27.29	Tree Survey									
		LS							0	
27.30	Miscellaneous Surveys									
					0.00		0.00		0.00	
Survey Subtotal				Crew Days	83	Field Support Hours	108	Office Support Hours	182	
27.31	Supplemental Surveys									THE % FOR SUPPLEMENTAL WILL BE DETERMINED AT NEGOTIATIONS. THIS ITEM CAN ONLY BE USED IF AUTHORIZED IN WRITING BY THE DISTRICT SURVEYOR
				83	0		0		0	
27.32	Document Research	Units								
									0	
27.33	Field Reviews	Units								
									0	
27.34	Technical Meetings	LS								
			0.00						0	
27.35	Quality Assurance / Quality Control	LS								
								5%	9	
27.36	Supervision	LS								
								5%	15	
27.37	Coordination	LS								
								3%	5	
27. Survey Total				Crew Days	83	Field Support Hours	108	Office Support Hours	211	

SPLS =
 PLS =
 Office Support =
 Total Hours = 319

27. Survey (SUE)

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?		Number	Comments	
	Kickoff Meeting with FDOT	EA	0	0	0				0	
	Baseline Approval Review	EA	0	0	0				0	
	Network Control Review	EA	0	0	0				0	
	Vertical Control Review	EA	0	0	0				0	
	Local Governments (cities, counties)	EA	0	0	0				0	
	Final Submittal Review	EA	0	0	0				0	
	Other Meetings	EA	0	0	0				0	
Subtotal Technical Meetings					0	Subtotal PM Meetings		0		
	Progress Meetings (if required by FDOT)	EA	0	0	0		**		--	
	Phase Review Meetings	EA	0	0	0		**		--	
Total Meetings					0	Total PM Mtgs (carries to Tab 3)		0		

Carries to 27.34

Carries to Tab 3

35. Geotechnical Terracon

Estimator:

Thompson Nursery Road Extension - Segment 2

0

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name	Terracon	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
	Roadway					
35.1	Document Collection and Review	LS	1	8	8	Approx. 17,000 LF new extension; review maps and review/utilize previous geotech data
35.2	Develop Detailed Boring Location Plan	LS	1	4	4	Roadway: perform 5' hand auger every 100 ft. and 20' machine auger boring every 500 ft; 177 borings for 1,395 total LF total and 8 pavement cores. Ponds/FPCs: 11 total sites (6 ponds and 5 FPC); perform total of 101 machine auger borings to 20' depth at ponds and 5' depth (for GW) at FPC; 101 borings for 1,315 total LF.
35.3	Stake Borings/Utility Clearance	Boring	278	0.15	42	see 35.2
35.4	Muck Probing	Crew Day	1	16	16	anticipate 1 day muck probing at wetland areas; estimate 2,500 LF mapped organics per review of County Soil Survey
35.5	Coordinate and Develop MOT Plans for Field Investigation	EA	1	4	4	anticipate MOT for 8 pavement cores
35.6	Drilling Access Permits	Location	0	0	0	not anticipated to be needed
35.7	Property Clearances	EA	12	1	12	anticipate coordination at multiple locations
35.8	Groundwater Monitoring	EA	0	0	0	n/a
35.9	LBR/Resilient Modulus Sampling	EA	10	1	10	100 lb sample per location collected from total of 10 locations.
35.10	Coordination of Field Work	100 lf of boring	27.1	1	27	see 35.2
35.11	Soil and Rock Classification - Roadway	100 lf of boring	27.1	2	54	see 35.2
35.12	Design LBR	LS	1	2	2	10 LBRs
35.13	Laboratory Data	100 lf of boring	27.1	0.75	20	see 35.2
35.14	Seasonal High Water Table	Boring	278	0.1	28	see 35.2
35.15	Parameters for Water Retention Areas	EA	11	2	22	11 total stormwater sites
35.16	Delineate Limits of Unsuitable Material	Cross-section	25	1	25	some hatching anticipated
35.17	Electronic Files for Cross-Sections	100 lf of boring	27.1	1	27	prepare geopak files; coordinate with Roadway engineer
35.18	Embankment Settlement and Stability	Embankment Boring	0	4	0	not anticipated to be needed

35. Geotechnical Terracon

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.19	Monitor Existing Structures	LS	1	0	0	n/a
35.20	Stormwater Volume Recovery and/or Background Seepage Analysis	EA	0	0	0	by others
35.21	Geotechnical Recommendations	LS	1	24	24	standard hours/effort
35.22	Pavement Condition Survey and Pavement Evaluation Report	LS	1	8	8	8 pavement core locations
35.23	Preliminary Roadway Report	LS	1	16	16	standard hours/effort
35.24	Final Report	EA	1	16	16	standard hours/effort
35.25	Auger Boring Drafting	100 lf boring	27.1	3	81	see 35.2
35.26	SPT Boring Drafting	100 lf boring	0	0	0	n/a
Roadway Geotechnical Subtotal					446	
Structures						
35.27	Develop Detailed Boring Location Plan	LS	1	1	1	Culverts: perform 3 SPT boring to 20' each. Signals: perform total of 10 SPT borings to 25' each at 10 locations. Bridges: perform 2 SPT borings to 125' at Canal crossing and 1 confirmation SPT boring to 125' at CSX crossing
35.28	Stake Borings/Utility Clearance	Boring	16	0.5	8	see 35.27
35.29	Coordinate and Develop MOT Plans for Field Investigation	EA	1	4	4	anticipate need for MOT for signal borings
35.30	Drilling Access Permits	Location	0	0	0	not anticipated to be needed
35.31	Property Clearances	EA	0	0	0	see 35.7
35.32	Collection of Corrosion Samples	EA	7	0.5	4	soil and water sampling at culvert and bridge locations
35.33	Coordination of Field Work	100 lf of boring	6.85	0.5	3	see 35.27
35.34	Soil and Rock Classification - Structures	100 lf of boring	6.85	2	14	see 35.27
35.35	Tabulation of Laboratory Data	100 lf of boring	6.85	0.75	5	see 35.27
35.36	Estimate Design Groundwater Level for Structures	EA	3	0.5	2	at 3 culvert borings
35.37	Selection of Foundation Alternatives (BDR)	Bridge boring	3	4	12	3 bridge borings at 2 bridge locations
35.38	Detailed Analysis of Selected Foundation Alternate(s)	Bridge boring	3	8	24	3 bridge borings at 2 bridge locations
35.39	Bridge Construction and Testing Recommendations	Bridge boring	3	2	6	3 bridge borings at 2 bridge locations
35.40	Lateral Load Analysis (Optional)	Bridge boring	3	4	12	3 bridge borings at 2 bridge locations
35.41	Walls	Wall Boring	0	0		n/a
35.42	Sheet Pile Wall Analysis (Optional)	Wall Boring	0	0	0	n/a

35. Geotechnical Terracon

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.43	Design Soil Parameters for Signs, Signals, High Mast Lights, and Strain Poles and Geotechnical Recommendations	Boring	10	1	10	10 borings
35.44	Box Culvert Analysis	EA	1	4	4	1 location
35.45	Preliminary Report - BDR	EA	1	16	16	standard hours/effort
35.46	Final Report - Bridge and Associated Walls	EA	0	0	0	n/a
35.47	Final Reports - Signs, Signals, Box Culvert, Walls and High Mast Lights	EA	1	16	16	standard hours/effort
35.48	SPT Boring Drafting	100 lf of boring	6.85	4	27	see 35.27
35.49	Other Geotechnical	LS	1	0	0	none anticipated
Structural Geotechnical Subtotal					168	
Geotechnical Technical Subtotal					614	
35.50	Technical Special Provisions and Modified Special Provisions	EA	0	0	0	none anticipated
35.51	Field Reviews	LS	1	16	16	2 field reviews
35.52	Technical Meetings	LS	1	7	7	Meetings listed below
35.53	Quality Assurance/Quality Control	LS	%	5%	31	
35.54	Supervision	LS	%	5%	31	
Geotechnical Nontechnical Subtotal					85	
35.55	Coordination	LS	%	3%	21	
35. Geotechnical Total					720	

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	kick off meeting with the County		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	limited phase review meetings		0
Subtotal Technical Meetings				7	Subtotal Project Manager Meetings		
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
Total Meetings				7	Total Project Manager Meetings (carries to Tab 3)		
							0

Carries to 35.52

Carries to Tab 3

Project Activity 3: General Tasks

**SCOPE OF SERVICES AND FEE ESTIMATE - GEOTECHNICAL
THOMPSON NURSERY ROAD WIDENING - SEGMENT 2
POLK COUNTY, FLORIDA
TERRACON PROPOSAL NO. PH1225051B**

Geotechnical Scope of work to be performed for Segment 2 proposed project area.
 Perform 5' deep roadway boring every 100' and 20' deep machine auger boring every 5th boring; 143 to 5 ft & 34 to 20'; total 1,395 LF
 Perform muck probes 100 ft intervals at areas mapped with organics (approx. 2,500 LF).
 At pond sites, perform 2 borings to 20' per acre; 6 pond sites, about 27 ac total; 54 borings; total 1,080 LF.
 At FPC sites, perform 2 borings to 5' per acre; 5 FPC sites, about 23.5 ac total; 47 borings; total 235 LF.
 At new culvert (150' length), perform 3 SPT borings to 20' each; total 60 LF
 At new signals (10 total), perform 10 SPT borings to 25' each; total 250 LF
 At Canal Bridge perform 2 bridge borings to 125 feet each; total 250 feet.
 At CSX Bridge perform 1 confirmation bridge borings to 125 feet each; total 125 feet.

DESCRIPTION OF WORK		QTY.	RATE	UNIT	AMOUNT
I.	GEOTECHNICAL FIELD EXPLORATION				
	A. Mobilization of Crew and Equipment - Truck Mount	2	\$ 540.00	Each	\$ 1,080.00
	B. Mobilization of Crew and Equipment - Mudbug Drill Rig	4	\$ 780.00	Each	\$ 3,120.00
	C. Mobilization of Crew and Equipment - Coring Trailer	1	\$ 300.00	Each	\$ 300.00
	D. Auger Borings - Hand & Truck (0 - 50 ft)	2710	\$ 13.80	LF	\$ 37,398.00
	E. Standard Penetration Test Borings (0 - 50 ft)	460	\$ 15.00	LF	\$ 6,900.00
	F. Standard Penetration Test Borings (50 - 100 ft)	150	\$ 20.40	LF	\$ 3,060.00
	G. Standard Penetration Test Borings (100 - 150 ft)	75	\$ 33.60	LF	\$ 2,520.00
	H. Casing (0 - 50 ft)	150	\$ 10.80	LF	\$ 1,620.00
	I. Casing (50 - 100 ft)	75	\$ 12.00	LF	\$ 900.00
	J. Casing (100 - 150 ft)	0	\$ 15.60	LF	\$ -
	K. Grout Seal Boreholes (0 - 50 ft)	150	\$ 6.00	LF	\$ 900.00
	L. Grout Seal Boreholes (50 - 100 ft)	150	\$ 7.80	LF	\$ 1,170.00
	M. Grout Seal Boreholes (100 - 150 ft)	75	\$ 12.00	LF	\$ 900.00
	N. Hand Probing/Wash Borings - 2-Person Crew	20	\$ 168.00	Hour	\$ 3,360.00
	O. Drill Crew Time - 2-Person Crew	32	\$ 210.00	Hour	\$ 6,720.00
	P. Pavement Core Asphalt - 6 inch diameter	8	\$ 360.00	Each	\$ 2,880.00
	Q. MOT - Signs & Cones	2	\$ 240.00	Day	\$ 480.00
	R. MOT - Support Truck with Arrow Panel	20	\$ 90.00	Hour	\$ 1,800.00
	S. MOT - Flagger	40	\$ 84.00	Hour	\$ 3,360.00
	T. MOT - Mobile Variable Message Sign	2	\$ 60.00	Hour	\$ 120.00
	Subtotal				\$ 78,588.00
II.	GEOTECHNICAL LABORATORY TESTING				
	A. Soils Moisture Content Laboratory AASHTO T265	40	\$ 18.00	Test	\$ 720.00
	B. Soils Organic Content Ignition FM 1 T-267	20	\$ 54.00	Test	\$ 1,080.00
	C. Soils Atterberg Limits AASHTO T89/T90	20	\$ 96.00	Test	\$ 1,920.00
	D. Soils Particle Size Anlys AASHTO T88 (No Hydrometer)	45	\$ 108.00	Test	\$ 4,860.00
	E. Single Sieve Size Anlys AASHTO 1-T88	12	\$ 108.00	Test	\$ 1,296.00
	F. Limerock Bearing Ratio	10	\$ 450.00	Test	\$ 4,500.00
	G. Soils Corrosion Series FM 5-550 through 5-553	16	\$ 180.00	Test	\$ 2,880.00
	Subtotal				\$ 17,256.00
	Total for Geotechnical Field and Lab				\$ 95,844.00

Project Activity 3: General Tasks

Estimator: Luis Nieto

Thomposon Nursery Road Extension

0

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	3.75	30.75	115	Middle Range Project C3: 20 hrs per mile * 3.75 (project length + side streets) = 75 hrs ; Existing Features = 40 hrs . Total = 115 hrs
36.2	Phase II 3D Design Model	Alignment / Corridor Mile	3.75	44.25	166	Middle Range Project C3: 10 hrs per mile * 3.75 (project length + side streets) = 38 hrs; 6 Driveways @ 8 hrs each = 48 hrs; Intersection Grading = 4 intersections @ 20 hrs each = 96 hrs; Total = 166 hrs
36.3	Phase III 3D Design Model	Alignment / Corridor Mile	3.75	15	56	Middle Range Project C3: 15 hrs per mile * 3.75 = 56 hrs
36.4	Final 3D Design Model	Alignment / Corridor Mile	3.75	12	45	Middle Range Project C3: 12 hrs per mile * 3.75 = 45 hrs
36.5	Cross Section Design Files	LS	3.75	50	188	Middle Range Project C3: 50 hrs per mile * 3.75 = 188 hrs
36.6	Template and Assembly Development (Optional)	LS	1	0	0	
3D Modeling Technical Subtotal					570	
36.7	Quality Assurance/Quality Control	LS	%	5%	29	
36.8	Supervision	LS	%	5%	29	
36.9	Coordination	LS	%	3%	17	
3D Modeling Total					645	

Project Activity 3: General Tasks

Estimator:

Thompson Nursery Road Ext., Segment 2 CRAS
123456-7-89-10

presenting	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
5.0	ENVIRONMENTAL ANALYSIS AND REPORTS					
5.1	Sociocultural Effects					
	5.1 Sociocultural Effects Evaluation *	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	
	5.1.5 Aesthetic Effects *	LS	1	0	0	
	5.1.6 Relocation Potential					
	Review and Impact Determination *	LS	1	0	0	
	Conceptual Stage Relocation Plan (CSRPP) *	LS	1	0	0	
	5.1.7 Farmland *	LS	1	0	0	
	5.1 Sociocultural Effects Total				0	
5.2	Cultural Resources					
	5.2.1 Archaeological and Historical Resources					
	Research Design and Survey Methodology *	LS	1	0	0	
	Cultural Resources Assessment Survey (CRAS) *	LS	1	600	600	ACI will prepare a CRAS Report for Segment 2 which will include the recommended alternative (Alt 1) and preferred pond sites (6 preferred ponds and 5 preferred FPC sites). 1. Background research will review the Desktop Analysis and current data prior to the field survey; 2. Archaeological field survey will consist of 2 archaeologists for 13 field days for preferred alignment and preferred pond sites; sites have a variable probability; evidence of two (2) previously recorded sites and two new sites anticipated; 3. The historical field survey will consist of 2 historians for 1 long day in the field; anticipate recording 45 new historic resources (built in or prior to 1981) and updating two previously recorded resources. 4. ACI will prepare a CRAS Report that will include Preferred Pond sites (2 draft and 1 final) (hours include writers, clerical, graphics, Survey Log, etc.); 5. Meetings (kick-off, progress), coordination. Hours do not include a preliminary pond desktop analysis.
	Pond Sites Desktop Assessment *	LS	1	0	0	
	Determinations of Eligibility (DOE) (As Required)	LS	1	0	0	
	Section 106 Case Report *	LS	1	0	0	
	Memorandum of Agreement (MOA) *	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 Areas and Protected Lands					
	Data Collection and Analysis	LS	1	0	0	
	Coordination	LS	1	0	0	
	Documentation					
	Section 4(f) Evaluation *	LS	1	0	0	
	Recreational Areas Not Subject to Section 4(f) *	LS	1	0	0	
	State Owned Lands *	LS	1	0	0	
	5.2.3 Section 4(f) and Concurrent Requirements (Optional)					
	Section 4(f) Determination of Applicability *	EA	0	0	0	
	Section 4(f) "de minimis" Documentation *	EA	0	0	0	
	Individual Section 4(f) Evaluation *	EA	0	0	0	
	5.2 Cultural Resources Total				600	

Project Activity 3: General Tasks

5.3	Natural Resources				
	5.3.1 Wetlands and Other Surface Waters				
	Data Collection	LS	1	0	0
	Analysis *	LS	1	0	0
	Conceptual Mitigation *	LS	1	0	0
	5.3.2 Essential Fish Habitat				
	Data Collection	LS	1	0	0
	Analysis *	LS	1	0	0
	5.3.3 Protected Species and Habitat				
	Data Collection and Agency Coordination	LS	1	0	0
	Specific Survey	LS	1	0	0
	Analysis *	LS	1	0	0
	Conservation Measures and Mitigation Plan *	LS	1	0	0
	5.3.4 Natural Resource Documentation				
	Wetlands or Other Surface Waters Documentation *	LS	1	0	0
	Essential Fish Habitat (EFH) Assessment *	LS	1	0	0
	Protected Species and Habitat Documentation and Biological Assessment *	LS	1	0	0
	5.3.5 Water Resources				
	Analysis	LS	1	0	0
	Documentation *	LS	1	0	0
	5.3.6 Wild and Scenic Rivers				
	Analysis	LS	1	0	0
	Documentation *	LS	1	0	0
	5.3.7 Floodplains	LS	1	0	0
	5.3.8 Coastal Zone Consistency	LS	1	0	0
	5.3.9 Coastal Barrier Resources	LS	1	0	0
	5.3 Natural Resources Total			0	
5.4	Physical Effects				
	5.4.1 Highway Traffic Noise				
	Methodology Meeting *	LS	1	0	0
	Data Collection	LS	1	0	0
	Traffic Data Review and Formatting	LS	1	0	0
	Field Measurement and Noise Model Validation *	LS	1	0	0
	Construction Noise and Vibration Assessment *	LS	1	0	0
	Noise Analysis	LS	1	0	0
	Noise Abatement Evaluation *	EA	0	0	0
	Noise Study Report (NSR) *	LS	1	0	0
	Public Meetings Support	LS	1	0	0
	5.4.2 Transit Noise and Vibration Impact 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 (AQTM) *	LS	1	0	0
	5.4.4 Construction *	LS	1	0	0
	5.4.5 Contamination				
	Data Collection	LS	1	0	0
	Analysis and Report *	LS	1	0	0
	5.4 Physical Effects Total			0	
5.5	Cumulative Effects Evaluation (When Applicable)*	EA	0	0	0
5.6	Project Commitments *	LS	1	0	0
	Environmental Analysis and Report Subtotal			600	
	Hours Subject to QC			600	
	Quality Assurance / Quality Control	LS	%	5%	30
	ENVIRONMENTAL ANALYSIS AND REPORT TOTAL HOURS			630	