

INDIVIDUAL PROJECT ORDER NUMBER 14

Describing a specific agreement between Kimley-Horn and Associates, Inc. (“the Consultant”), and the City of Gainesville (“the Client” or “the City”) in accordance with the terms of the Master Agreement for Continuing Professional Services (2018-049-AW) dated September 26, 2018 and the amendment dated April 5th, 2022, which are incorporated herein by reference.

Identification of Project:

Project: SW 47th AVE Extension Design

Project Manager: Chris Towne, P.E.

Project Understanding:

1. The City of Gainesville is requesting the design and permitting of a new 2-lane roadway that connects SW 47th AVE to SW 29th DR. The project includes a roundabout at the intersection of SW 47th AVE and SW 29th DR and a stormwater facility on a portion of property owned by UF Health. The general area of the project is shown on Exhibit A.
2. The new roadway will be approximately 1,500 feet long, and will include a curb and gutter section with 11-foot lanes (Type F curb and gutter), and a design speed of 35 MPH. There will also be a 10-foot-wide multi-use path connecting a future path (not part of this contract) along the existing SW 47th Avenue section to SW Williston Road.
3. The alignment and section will closely match the SW 47th AVE (A) and SW 29th DR plans as previously submitted to the City for the SW 47th AVE Extension Preliminary Plans, dated October 19, 2022.
4. Topographic survey detailed in the scope below amends and will add to the survey provided by the City for the Preliminary Plans project previously completed.
5. All right-of-way and easement acquisitions required for the project will be provided by the City. Kimley-Horn and its subconsultants will provide areas required, survey sketches, and legal descriptions as outlined below in the scope to facilitate the process.
6. SW 29th DR is currently owned and maintained by Alachua County. The City will acquire the right-of-way from Alachua County during or after the design. No permitting with Alachua County Public Works is included with this scope and transfer of ownership will be completed by the City.

Specific Scope of Basic Services:**Task 1 – Topographic Survey and Utility Designation (By Degrove Surveyors, Inc.)**

- A. Prepare topographic survey for the described parcel. Topographic survey will include the full width of the right of way of SW 29th DR, from the centerline of Williston Road to the northerly edge of the City of Gainesville Powerline Easement, as well as the Northerly half of parcel 07240-008-000, extending North to the Northerly right of way line of SW 47th AVE. Benchmarks will be set on-site for future construction. The topographic survey will comply with the Standards of Practice for Surveying and Mapping in the State of Florida.
 1. Elevations on a 50' grid.
 2. The horizontal location of visible above ground features and improvements within the limits of survey, including:

- Utilities
 - Water control structures
 - Pedestrian paths, including worn footpaths.
 - Walkways around the building
 - Building corners
 - Exterior door locations
 - Finished floor elevations
 - Sign locations – photographs of each sign to provide record of wording/ content
 - Light pole and exterior light locations
3. The horizontal and vertical location of edges of asphalt and centerlines.
 4. Critical spot elevations of existing pavements (i.e. top and bottom of curb, walkways, drives, parking, etc.)
 5. Elevations at significant breaks in grade.
 6. The location and elevations of storm water facilities (swales, ponds, pipes, and structures, etc.).
 7. Invert elevation and pipe sizes.
 8. The location and species identification of trees 8" (dbh) and larger.
 9. The horizontal location of landscaping limits.
 10. The location of pavement, above ground indicators of utilities, stormwater facilities and fences.
 11. The graphical depiction of approximate right of way lines and approximate parcel boundary lines based on existing monumentation.
 12. Mapping contours at 1' intervals.
 13. Mapping in AutoCad Civil 3D with TIN.
- B. Identify (mark) and locate the horizontal location of all utilities within the designated corridor.
1. The existence and location of the subsurface utilities will be based upon available records, surface visible evidence and through the use of electromagnetic and ground penetrating radar methods (GPR).
 2. The location of the utilities will be added to the topographic survey.
 3. The extent and liability of this information is limited to the Standards for a Quality Level — B Utility Investigation as defined by the American Society of Civil Engineers (ASCE) Publication 38-02. Quality Level – B depicts the horizontal location and does not show or depict depth of the utility.

Task 2 – Geotechnical Engineering Services (By GSE Engineering & Consulting, Inc.)

- Perform limited clearing at the site to provide access to the stormwater boring locations. The clearing services will consist of removing brush and trees smaller than about 5 inches in diameter to create travel lanes through the wooded area. The tree and brush debris will be left on site. If there are specific restrictions to clearing, please provide this at the time of authorization.
- Clear utilities at the site through Sunshine One Call.
- Mobilize to the site with limited access drilling equipment.
- Advance two (2) auger borings to depths of 5 feet bls, one (1) auger boring to depth of 10 feet bls, one (1) auger boring to depth of 15 feet bls, and one (1) auger boring to depth of 20 feet bls within the proposed roadway area.
- Advance six (6) auger borings to depths of 15 to 30 feet bls within the proposed stormwater management facility (4 borings at 15 feet, and 2 borings at 30 feet).

- Advance one (1) Standard Penetration Test (SPT) boring to a depth of 30 feet bls within the proposed berm.
- Perform visual classification of the soil samples obtained from the soil borings to confirm field classifications.
- Collect two (2) bulk samples of near surface soils (representative soil strata) from the site for Limerock Bearing Ratio (LBR) testing.
- Perform soil laboratory classification tests on representative samples, as considered appropriate. These tests may include the percent soil fines passing the No. 200 sieve determinations, natural moisture content determinations, organic content tests, Atterberg Limits tests, LBR tests, and constant head permeability tests.

Services will be provided under the direction of a Geotechnical Engineer registered in the State of Florida. The results of the exploration will be presented in a geotechnical engineering report. This report will specifically address the following items:

- Existing site conditions.
- Exploration, testing, and sampling methods.
- Subsurface soil conditions encountered and soil classifications, including any unsuitable materials encountered.
- Depth to groundwater at the time of the exploration and estimated seasonal high.
- A review of surface features and site conditions that could affect pavement construction and site preparation.
- Preliminary flexible pavement design recommendations.
- Recommendations for site preparation and construction of compacted fills or backfills for the pavement areas.
- Recommendations for earthwork construction monitoring and testing.
- Recommended soil and groundwater parameters to assist in the stormwater management facility designs. These parameters include the following:

Base elevation of effective or mobilized aquifer (feet below land surface).

Normal seasonal high groundwater table and actual observed water table at the time of drilling within the pond footprint (feet below land surface).

An estimate of the average weighted horizontal hydraulic conductivity and unsaturated vertical infiltration rate (feet/day) for mobilized aquifer.

Specific yield or fillable porosity of mobilized aquifer (%).

- A discussion of the suitability of the soils that may be excavated from the site for use as structural fill.
- A background seepage and berm stability analysis is not included in this task. If required, it will be additional services.

Task 3 – UF Health Support and Coordination

Kimley-Horn will coordinate with UF Health on the overall Project including the proposed retention pond design and a future roadway access connection from their parcels to the Project. Kimley-Horn will also prepare a conceptual layout of the retention pond and access connection for UF Health to use for obtaining approval from their Board of Directors (BOD). The following specific details apply to this task:

1. Three coordination meetings with UF Health (2 virtual – 1 in person)
2. Four iterations of the conceptual layout in pdf format (2 draft, 1 pre-BOD, 1 post-BOD)
3. Review and interpretation of as-built documents, surveys, reports, assessments, development programs, master plans, and other information obtained from UF Health
4. Two site walkthroughs to verify field conditions on UF Health property

Task 4 – Roadway Design and Construction Plans

Kimley-Horn will prepare roadway design plans on 11”X17” sheets depicting the proposed improvements. The roadway design plans will be prepared in accordance with applicable Florida Department of Transportation (FDOT) design standards and specifications, FDOT Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (Florida Greenbook), and the City’s Engineering Design & Construction Manual.

The roadway design plans will consist of the following sheets (anticipated):

- A. Cover Sheet
- B. General Notes
- C. Typical Sections
- D. Detail Sheets
- E. Project Layout Sheets
- F. Drainage Map
- G. Roadway Plan/Profile Sheets
- H. Drainage Structure Sections
- I. Cross Sections at 50’ intervals
- J. Traffic Control Plan – General notes and reference to FDOT Standard Plans only.
- K. Erosion Control Plans – 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.
- L. Landscaping Plans
- M. Lighting Plans
- N. Utility Adjustment Plans - The Consultant will be responsible for coordinating the proposed design with the affected utility companies to minimize utility conflicts. Individual utility owners will designate the existing utilities within the project limits.

Each utility provider will be responsible for the design of their respective utility relocations for this project. These designs will be provided to the Consultant by the utility providers in CADD format for inclusion into the Roadway / Utility Plans for this project. The Consultant will be responsible for coordinating with the utility providers for the proposed construction elements such that utility conflicts are minimized or avoided.

The Consultant will submit to each Utility Owner the necessary sets of plans for utility coordination and be prepared to provide the project CADD files in electronic format to each Utility Owner upon their request. The Consultant will provide the CADD files for the convenience of the Utility owners; Consultant cannot be responsible for the accuracy of the files after they are provided to the Utility owners. The Consultant will, prior to and during design, obtain available data from the Utility Owners that may be needed to determine the actual location and depth of the underground utilities. The Consultant will prepare Utility Adjustments sheets prior to the Final submittal. Utility adjustments will be designed by the utility owners and shown on the plan/profile sheets or other appropriate location in the plan set. Upon completion of these plans, the Consultant will send one complete set of plans to each utility owner and to the City.

O. Signing and Pavement Marking Plan Sheets

Task 5 – Drainage Design

Kimley-Horn will perform hydrologic and hydraulic calculations to support the drainage design for the Project. These include stormwater retention pond volume and infiltration calculations, surface runoff calculations, and conveyance system capacity calculations. The deliverable from this task will be a signed and sealed Drainage Design Report containing a detailed explanation of the methodology, supporting calculations, and conclusions.

The overall approach to drainage design will be based upon capturing the existing pipe flow from the UF Health parking lot (formerly the Nationwide Insurance office) and treating it in a proposed retention pond constructed on the undeveloped UF Health owned property southwest of the proposed roundabout. The existing pipe currently conveys runoff from the parking lot through the proposed roadway alignment into a permitted natural retention area north of the proposed roundabout. The proposed retention pond will free up capacity in the natural retention area that will be utilized by the proposed full extension of SW 47th AVE and SW 29th DR. The proposed retention pond will be designed accommodate a ±30,000 sf building expansion on the undeveloped UF Health owned property based upon input from a preliminary meeting with UF Health.

Task 6 – Permitting

Kimley-Horn will apply for the development permits listed below. Up to 2 responses to reasonable and typical questions from the authorities having jurisdiction (AHJ) will be made. Permits cannot be guaranteed due to uncontrollable human factors and politics that tend to influence permits. The following permits will be pursued under this task:

St. Johns River Water Management District (SJRWMD) Environmental Resource Permit Modification

The following meetings are included in this task:

- A. 2 site meetings
- B. SJRWMD pre-application meeting (virtual)
- C. 1 post-submittal meeting with SJRWMD (virtual)
- D. 2 general purpose meetings or conference calls

Task 7 – Landscape Design

- A. Once the topographic and tree survey received, conduct one site visit for the purposes of analyzing existing trees and vegetation.
- B. Prepare construction documents including 30%, 60%, 90%, and Final submittals. including plans and technical specifications. Design will adhere to City of Gainesville's Public Works Engineering Design and Construction Manual and Florida Manual of Uniform Minimum Standards for Design, Construction, and Maintenance for Streets and Highways (Florida Greenbook).

Provide:

- a. Input regarding existing tree demolition and associated tree mitigation for trees being removed outside of the future acquired right of way areas only.
 - b. Landscape plan to propose street trees and adhere to City of Gainesville Land Development Code requirements for stormwater ponds and general tree mitigation replacements. Plantings will not be proposed within utility easements. Landscape plan will indicate the quantity, common and scientific name, size, and location of proposed plant types. Plan sheets to include tree planting details, tree mitigation and landscape calculations, and general notes.
 - c. Please note that irrigation design is not included, as requested. Notes will be provided on landscape plans indicating that the Contractor shall provide watering throughout the defined establishment period to maintain plantings in a thriving state as defined in the latest edition of Florida Grades and Standards for Nursery Plants. Notes will also indicate performance specifications for watering and will require that the Contractor shall submit their watering approach and schedule to the City's Public Works representative for approval as part of the project's bid and as a shop drawing early in construction.
- C. Meet with the City Urban Forestry Inspector and Public Works representative on site to discuss existing trees, mitigation, and proposed landscape requirements.
 - D. Participate in up to four coordination meetings, as needed.
 - E. Respond to City and GRU comments and coordinate with staff as needed.

Task 8 – Lighting Analysis and Plans

- A. Kimley-Horn will perform a roadway lighting, roundabout, and pedestrian lighting photometric analysis in AGi32 software along the proposed SW 47th AVE Extension alignment from SW 34th Street to SW Williston Road. Roadway and roundabout lighting will be designed using GRU fixtures to meet the City of Gainesville Land Development Code (LDC) and Florida Greenbook lighting criteria. Pedestrian lighting along the proposed multi-use path will be designed to meet City of Gainesville Land Development Code (LDC) lighting criteria. Kimley-Horn will coordinate with GRU (maintaining agency) and the City throughout the duration of the design process.
- B. Kimley-Horn will assemble lighting plans in accordance with the FDOT Design Manual (FDM). Lighting plans will include plan sheets showing pole locations, conduit, and pull boxes. Lighting plans will be provided as part of the roadway plan set. Conductors and load centers will be provided by GRU, therefore, these items will not be included in the design plans.
- C. Kimley-Horn will prepare photometric plan sheets showing the results of the lighting analysis performed in Part A. Voltage drop calculations are not included as part of this task but can be

performed as an additional service. A Lighting Design Analysis Report (LDAR) is not included in this scope but can be provided as an additional service.

Task 9 – Signal Warrant Analysis

Kimley-Horn will perform a traffic signal warrant analysis evaluating the intersection of SW Williston Road and SW 29th DR assuming the SW 47th AVE extension is constructed. As part of this analysis, Kimley-Horn will undertake the following:

- A. Collect 12 hours of turning movement counts at the existing intersection of SW Williston Road and SW 29th DR on a typical weekday (Tuesday, Wednesday, Thursday) from 7:00 AM to 7:00 PM. Traffic data will be collected when both Alachua County Schools and the University of Florida are in session.
- B. Collect crash data from the most recent five (5) years of available data in the vicinity of the intersection of SW Williston Road and SW 29th DR from the University of Florida's *Signal Four Analytics* crash database.
- C. Develop future intersection turning movement volumes to approximate future buildout traffic conditions at the intersection of SW Williston Road and SW 29th DR assuming the extension of SW 47th AVE from SW 34th Street to SW 29th DR.
- D. Perform a traffic signal warrant analysis in accordance with the *Manual on Uniform Traffic Control Devices* (MUTCD). Warrant 1 (8-hour Vehicular Volumes), Warrant 2 (4-hour Vehicular Volumes), and Warrant 7 (Crash Experience) will be evaluated, and the traffic signal warrant analysis will be signed and sealed for submission to FDOT.
- E. The Consultant will revise the traffic signal warrant analysis and provide responses to up to one (1) round of comments from FDOT. Additional rounds of review and comment will be provided as an Additional Service.

Task 10 – Stage 1 Intersection Control Evaluation (if required)

Kimley-Horn will perform a Stage 1 Intersection Control Evaluation (ICE) for the intersection of SW Williston Road and SW 29th DR. As part of this analysis, Kimley-Horn will undertake the following:

- A. Utilize the crash data from *Signal Four Analytics* for the latest five (5) years of available data at the subject intersection from Task 9B.
- B. Complete FDOT's Stage 1 ICE Form for opening year and design year conditions. The latest CAP-X and SPICE tools provided by FDOT will be utilized in the Stage 1 ICE analysis.
- C. Prepare a technical memorandum summarizing the Stage 1 ICE for submittal to FDOT.
- D. The Consultant will revise the traffic signal warrant analysis and provide responses to up to one (1) round of comments from FDOT. Additional rounds of review and comment will be provided as an Additional Service.

Task 11 – Stage 2 Intersection Control Evaluation (if required)

If the results of the Stage 1 ICE analysis identify more than one (1) viable intersection control, FDOT will require a Stage 2 ICE to assess the potential intersection control types more thoroughly. This scope of services assumes that two (2) intersection control strategies will be evaluated. If authorized, Kimley-Horn will undertake the following as part of this analysis:

- A. Prepare conceptual plans for two (2) intersection control alternatives utilizing readily available aerial photography.

- B. Perform AM peak hour and PM peak hour intersection level of service analyses for anticipated opening year and design year conditions for two (2) intersection control alternatives.
- C. Prepare planning level cost estimates for two (2) intersection control alternatives. Costs will be estimated from various sources of historical cost information. Actual construction costs may be higher or lower than the estimates prepared.
- D. Complete FDOT's Stage 2 ICE Form for opening year and design year conditions. The SPICE and FDOT ICE Tools provided by FDOT will be utilized in the Stage 2 ICE study.
- E. Prepare a technical memorandum summarizing the Stage 2 ICE study for submittal to FDOT.

Task 12 – Signal Design (if required)

- A. Kimley-Horn will prepare signalization plans for the intersection of SW Williston Road and SW 29th DR. As part of this task, Kimley-Horn will undertake the following:
 - Perform a field review at the subject intersection utilizing the survey provided as part of this task. During the field review, project photographs will be taken and the survey will be visually compared. Minor features evident during the field review not included in the survey will be noted and incorporated into the signalization plans.
 - Prepare signalization plans for the intersection of SW Williston Road and SW 29th DR. The design will consist of notes, signal head displays, detection, pedestrian features, mast arm assembly locations, controller type and location, electrical service, conduit, pull boxes, interconnect, street name signs, phasing, and local timings. The plans will consist of a Cover Sheet, Signature Sheet, Tabulation of Quantities Sheet, General Notes Sheet, Signal Plan Sheet, Mast Arm Tabulation Sheet, Mast Arm Data Sheet, Guidesign Worksheet, Interconnect Plan Sheet, and Splice Detail Sheet.
 - Interconnect plans will be developed on double stacked sheets at a scale of 1"=100' using available aerial photography for the base mapping. The plans will show the conduits and fiberoptic lines along SW Williston Road and the connection equipment needed to tie the existing traffic signal at SW 25th Terrace to the proposed signal controller at SW 29th DR. Up to two (2) splice details will be prepared to depict the connections to existing and/or proposed communication lines. If additional fiber optic features are required, the design of these features can be performed as an additional service. The interconnect plan sheets and splice detail sheet will be included as part of the signalization set.
 - Prepare roadway design plans for the following minor modifications at the intersection of SW Williston Road and SW 29th DR required for the installation of a traffic signal: up to two new crosswalks across SW Williston Road at the intersection, modifications to the curb ramps at the intersection to allow for the new crosswalks, minor signage and pavement marking modifications (removal of stop signs, addition of stop bars). This scope does not include modifications to existing turn lanes or roadway typical sections.
 - Obtain a list of known utility providers in the project's vicinity from the "Sunshine One-Call" service. Upon completion of the initial plans, Kimley-Horn will submit the plans to the known utility providers to seek input on the location of existing utilities. Kimley-Horn will contact each provider up to three (3) times to obtain this information. Based upon the information provided by the utility providers, Kimley-Horn will update the signal plan to reflect the subject utilities.
 - Perform structural calculations for up to four (4) proposed mast arm assemblies consistent with current FDOT standards. Kimley-Horn will prepare a mast arm structural calculation report signed and sealed by a Professional Engineer for submittal to FDOT. This scope assumes that all mast arms will be within the range of FDOT standard designs, and Consultant will check each mast arm and foundation to determine if this is the case. If any mast arm(s) or

- foundation(s) must exceed the dimensions or loading specified in the FDOT standards, the Consultant will have to develop a special design which will be considered an additional service and will require additional fee and Task Authorization.
- Kimley-Horn will incorporate the signal plans as a component of the project's overall plan set to be submitted to FDOT and the City for review. Kimley-Horn will respond to up to two Requests for Additional Information (RAI) following the initial permit plan submittal. Additional responses to comments shall be considered an additional service. This scope assumes that the City will coordinate with FDOT on any permits/agreements required for the signalization of the intersection and any related improvements.
- B. Kimley-Horn will perform a photometric analysis at the proposed signalized intersection of SW Williston Road at SW 29th DR in the lighting design software AGi32 to achieve a fixture layout meeting all applicable FDOT design criteria and standards for a new signalized intersection. The task will include voltage drop calculations. Results of the photometric analysis will be documented in a Lighting Design Analysis Report (LDAR). The LDAR will be provided under a separate cover from the traffic signal plans as supplemental information.

Kimley-Horn will coordinate with GRU, the City, and FDOT during the design process. Lighting plans will be assembled in accordance with the FDOT Design Manual (FDM). The lighting plans will be submitted as part of the signalization plans set and the LDAR will be provided as supplemental material. Addressing agency comments will be handled under the permitting sub-task in Task 12A.

- C. As part of this task, Degrove Surveyors, Inc. will perform the following survey services:
- Topographic Survey - Prepare topographic survey for the described parcel. The Topographic Survey shall extend to a point 200 feet back from the center of the intersection of SR 331/Williston Road and SW 29th Drive intersection on each approach to the intersection within the right-of-way limits. The topographic survey will comply with the Standards of Practice for Surveying and Mapping in the State of Florida.
 1. Elevations on a 50' grid.
 2. The horizontal location of visible above ground features and improvements within the limits of survey, including:
 - Utilities
 - Lane Width
 - Pavement Markings
 - Water control structures
 - Pedestrian paths, including worn footpaths.
 - Walkways around the building
 - Building corners
 - Exterior door locations
 - Finished floor elevations
 - Sign locations – photographs of each sign to provide record of wording/ content
 - Light pole and exterior light locations
 3. The horizontal and vertical location of edges of asphalt and centerlines.
 4. Critical spot elevations of existing pavements (i.e. top and bottom of curb, walkways, drives, parking, etc.)
 5. Elevations at significant breaks in grade.

6. The location and elevations of storm water facilities (swales, ponds, pipes, and structures, etc.).
 7. Invert elevation and pipe sizes.
 8. The location and species identification of trees 8" (dbh) and larger.
 9. The horizontal location of landscaping limits.
 10. The location of pavement, above ground indicators of utilities, stormwater facilities and fences.
 11. The graphical depiction of approximate right of way lines and approximate parcel boundary lines based on existing monumentation.
 12. Mapping contours at 1' intervals.
 13. Mapping in AutoCad Civil 3D with TIN.
 14. The establishment of project benchmarks.
 15. The survey will be referenced horizontally to the Florida State Plane Coordinate System NAD 83.
 16. The survey will be referenced vertically to the NAVD 88.
- Utility Designation - Identify (mark) and locate the horizontal location of all utilities within the designated corridor.
 1. The existence and location of the subsurface utilities will be based upon available records, surface visible evidence and through the use of electromagnetic and ground penetrating radar methods (GPR).
 2. The location of the utilities will be added to the topographic survey.
 3. The extent and liability of this information is limited to the Standards for a Quality Level — B Utility Investigation as defined by the American Society of Civil Engineers (ASCE) Publication 38-02. Quality Level – B depicts the horizontal location and does not show or depict depth of the utility.
 - Mast Arm Investigation Holes - Scan the 4 areas where the Mast Arms are to be placed for the existence and depth of subsurface utilities. 9 Vacuum excavations will be done per Mast Arm location in a plus sign configuration, one in the center with 2 extending out in each direction. At each hole location, an iron rod and plastic cap or a nail and disk will be placed with ribbon on a stake and/or paint on the ground, to denote each hole preformed. VVH's will be billed on a per hole basis in Task 14.

The extent and liability of this information is limited to the Standards for a Quality Level — A Utility Investigation as defined by the American Society of Civil Engineers (ASCE) Publication 38-02.

- D. As part of this task, GSE Engineering & Consulting, Inc. will perform the following geotechnical engineering services:
- Clear utilities at the site through Sunshine One Call.
 - Provide MOT signs in accordance with work on shoulder.
 - Mobilize to the site with truck mounted or all-terrain drilling equipment.
 - Advance four (4) Standard Penetration Test (SPT) borings to a depth of 25 feet below land surface (bls) at the signal pole locations.
 - Collect four (4) corrosion series test samples from the SPT borings.

- Perform visual classification of the soil samples obtained from the soil boring to confirm field classifications.
- Perform soil laboratory classification tests on representative samples, as considered appropriate. These tests may include the percent soil fines passing the No. 200 sieve determinations, natural moisture content determinations, Atterberg Limits tests, and corrosion series tests.
- These services will be provided under the direction of a Geotechnical Engineer registered in the State of Florida. The results of the exploration will be presented in a geotechnical engineering report. This report will specifically address the following items:
 - Existing site conditions.
 - Exploration, testing, and sampling methods.
 - Subsurface soil conditions encountered and soil classifications, including any unsuitable materials encountered.
 - Depth to groundwater at the time of the exploration and estimated seasonal high.
 - Soil parameters to assist in the signal pole foundation designs.
 - A Report of SPT Borings to be included in the final plans.
 - A summary of findings and recommendations.

Task 13 – Environmental Consulting

The project area is located within the Serenola Forest Strategic Ecosystem. Kimley-Horn has coordinated with the Alachua County Environmental Protection Department (EPD) to determine the requirements for this area and the requirements are undetermined at this time. Kimley-Horn proposes to provide environmental consulting required for this ecosystem at an hourly rate.

This task will also include any other necessary environmental scope as required, up to the not to exceed amount.

There are no wetland impacts anticipated for this project.

Task 14 – Subsurface Utility Verified Vertical and Horizontal (VVH) Location (By Degrove Surveyors, Inc.)

Consultant will verify the existence and depth of specified subsurface utilities if needed. Vacuum excavations or other methods will be employed to determine the location and depth of utilities up to six (6) feet in depth or until groundwater is encountered. VVH's will be billed on a per hole basis.

The extent and liability of this information is limited to the Standards for a Quality Level – A Utility Investigation as defined by the American Society of Civil Engineers (ASCE) Publication 38-02.

Task 15 – Legal Descriptions and Sketches (By Degrove Surveyors, Inc.)

Consultant will provide legal descriptions and sketches on an as needed basis on an hourly rate.

Deliverables:

Construction plans at 30%, 60%, 90%, and Final Stage (11"X17" .pdf and .dwg format), drainage report, and OPCC. Survey .dwg files and signed & sealed survey plans. Land acquisition costs will not be included.

Note: The Consultant has no control over the cost of labor, materials, equipment, over the Contractor's methods of determining prices, over competitive bidding, or market conditions. Opinions of probable costs provided in accordance with this Individual Project Order are based on

the information known at the time the opinions of cost are developed and represent only the Consultant's judgment as a design professional familiar with the construction industry. Actual costs for proposals, bids, or actual construction costs will be different.

Additional Services

Services requested that are not specifically included in this Agreement will be provided under a new and separate task order agreement. Additional services we can provide include, but are not limited to, the following:

1. Utility Relocation Design
2. LDAR
3. Traffic Studies
4. Irrigation design and Alachua County Irrigation permitting
5. Structural Engineering beyond what is included in Task 12 for signal design
6. FDOT Permitting beyond what is included in Task 12 for signal design
7. Public Involvement
8. Voltage drop calculations
9. Construction phase services

Schedule:

Kimley-Horn will begin working on the project 2 weeks from notice to proceed and will complete the scope detailed herein within 12 months of notice to proceed barring unforeseen issues out of the Consultant's control.

Method of Compensation:

Description	Fees
Task 1 – Topographic Survey and Utility Designation, Lump Sum	\$44,575.00
Task 2 – Geotechnical Engineering Services, Lump Sum	\$9,731.58
Task 3 – UF Health Support and Coordination, Lump Sum	\$16,485.00
Task 4 – Roadway Design and Construction Plans, Lump Sum	\$128,295.00
Task 5 – Drainage Design, Lump Sum	\$29,095.00
Task 6 – Permitting, Lump Sum	\$18,250.00
Task 7 – Landscape and Irrigation Design, Lump Sum	\$19,350.00
Task 8 – Lighting Analysis and Plans, Lump Sum	\$26,345.00
Task 9 – Signal Warrant Analysis, Lump Sum	\$11,015.00
Task 10 – Stage 1 ICE Analysis (if required), Lump Sum	\$11,035.00
Task 11 – Stage 2 ICE Analysis (if required), Lump Sum	\$28,345.00
Task 12 – Signal Design (if required), Lump Sum	\$86,262.20
<i>Task 12A – Signal Design</i>	<i>\$49,900.00</i>
<i>Task 12B – Intersection Lighting</i>	<i>\$13,710.00</i>
<i>Task 12C – Signal Survey Services*</i>	<i>\$15,975.00</i>

Task 12D – Signal Geotechnical Engineering Services	\$6,677.20
Total Lump Sum	\$428,783.78
Task 13 – Environmental Consulting, Hourly – Not to Exceed	\$15,000.00
Task 14 – Subsurface Utility VVH’s, **Per Hole – Not to Exceed	\$32,000.00
Task 15 – Legal Descriptions and Sketches, ***Hourly – Not to Exceed	\$5,000.00

* Mast Arm Investigation Holes billed under Task 14

**\$450/VVH in dirt, \$525/VVH in pavement, \$525/Mast Arm Investigation Hole, \$135/Mast Arm Investigation Hole Probes

*** \$90/HR CAD Tech, \$125/HR Professional Surveyor

ACCEPTED:

CITY OF GAINESVILLE FLORIDA

KIMLEY-HORN AND ASSOCIATES, INC.

BY: _____

BY: _____

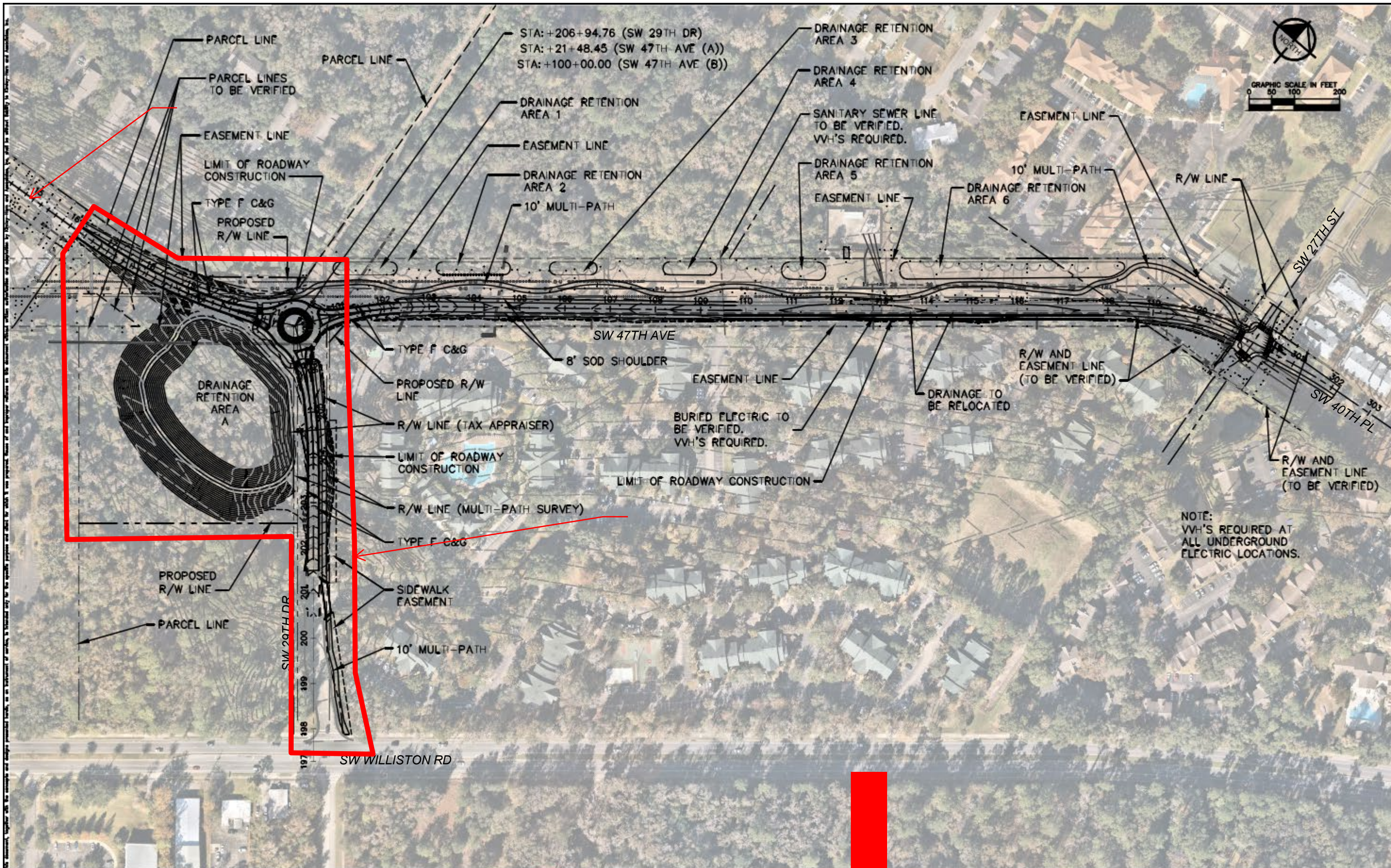
Chris Towne, P.E.

TITLE: _____

TITLE: Associate

DATE: _____

DATE: October 12, 2023



NOTE:
VH'S REQUIRED AT ALL UNDERGROUND ELECTRIC LOCATIONS.

REVISIONS	
DATE	DESCRIPTION
- -	NOT FOR CONSTRUCTION

DATE	OCTOBER 2022
DESIGNED BY	KHA
DRAWN BY	TAH
CHECKED BY	CDT

Kimley-Horn

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LICENSED PROFESSIONAL	Christopher D. Toome P.E.
66928	
DATE:	

CITY OF GAINESVILLE		
SW 47TH AVE PRELIMINARY LAYOUT		
ROAD NO.	COUNTY	PROJECT NO.
SW 47TH AVE	ALACHUA	142107006

AERIAL PLAN

SHEET NO.	17
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