

RESOLUTION NO. 2022-

**A RESOLUTION OF THE VILLAGE OF PINECREST,
FLORIDA, AUTHORIZING THE VILLAGE MANAGER
TO EXECUTE AN AGREEMENT WITH BCC
ENGINEERING, INC. FOR STORMWATER DRAINAGE
SYSTEM DESIGN SERVICES (PHASE 1); PROVIDING
FOR AN EFFECTIVE DATE.**

BE IT RESOLVED BY THE VILLAGE COUNCIL OF PINECREST, FLORIDA, AS FOLLOWS:

Section 1. That the Village Council hereby authorizes the Village Manager to enter into the attached agreement with BCC Engineering, Inc. for Stormwater Drainage System Design Services, Phase 1 of C100DN-1W sub basin, in the amount of \$187,500.

Section 2. This resolution shall take effect immediately upon adoption.

PASSED AND ADOPTED this 11th day of October, 2022.

Joseph M. Corradino, Mayor

Attest:

Priscilla Torres, CMC
Village Clerk

Approved as to Form and Legal Sufficiency:

Mitchell Bierman
Village Attorney

Consent Agenda




Yocelyn Galiano, ICMA-CM
Village Manager
manager@pinecrest-fl.gov

MEMORANDUM
Office of the Village Manager

DATE: October 3, 2022

TO: The Honorable Mayor and Members of the Village Council

FROM: Yocelyn Galiano, ICMA-CM, Village Manager 

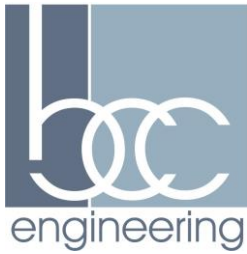
RE: Resolution for Stormwater Drainage System Design Services Agreement – BCC Engineering, Inc.

Attached for your consideration, please find a quote dated September 30, 2022 from BCC Engineering, Inc. for a data collection, design, permitting, and post design services for Phase 1 of C100DN-1W sub basin. This basin was rated 2 of 15 for drainage priority per the Stormwater Master Plan. BCC Engineering is one of three engineering companies that have been pre-qualified for miscellaneous engineering design work by the Village Council.

During Fiscal Year 2022, the Village secured \$500,000 from the State of Florida and \$604,000 from the Federal government to be used toward design and construction of drainage projects throughout the Village.

I hereby respectfully recommend the Village Council adopt the attached resolution authorizing the Village Manager to execute an agreement for engineering design services for Phase 1 of sub basin C100DN-1W with BCC Engineering, Inc. in the amount of \$187,500.





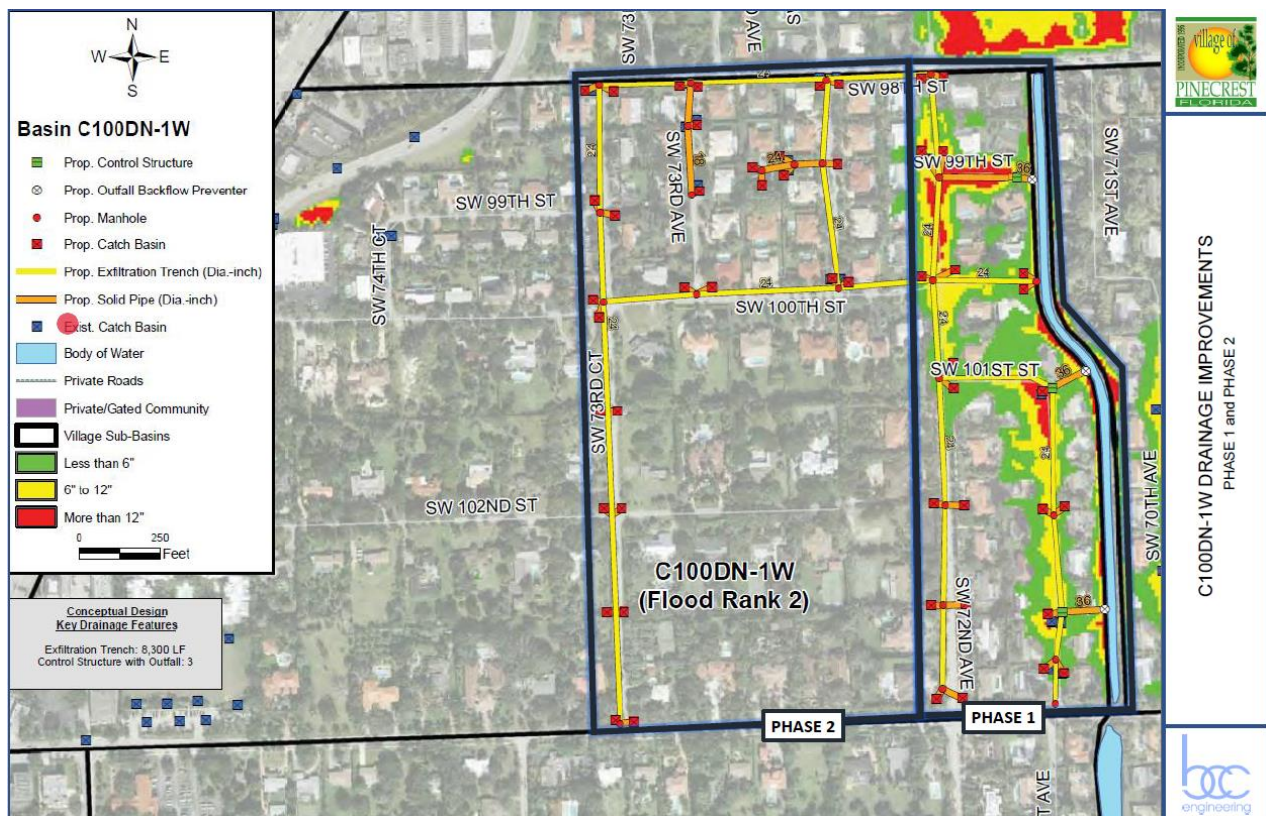
September 30, 2022

David Mendez, P.E.
Public Works Director
Village of Pinecrest
10800 Red Road
Pinecrest, FL 33156

Reference: VILLAGE OF PINECREST C100DN-1W DRAINAGE IMPROVEMENTS – PHASE 1: SW 71ST AVENUE BETWEEN SW 104TH STREET TO SW 101ST STREET AND SW 72ND AVENUE BETWEEN SW 104TH STREET AND SW 98TH STREET

Mr. Mendez:

Thank you for the opportunity to present this proposal for professional engineering services associated with the design, permitting, and post-design services for the required roadway and drainage improvements for Phase 1 of the C100DN-1W basin proposed drainage improvements outlined in the Village of Pinecrest 2015 Stormwater Master Plan (SWMP). Basin C100CD-1W Phase 1 limits are depicted in the figure below. Phase 1 of this project includes a total of 3,890 linear feet of roadway and drainage improvements.



This proposal has been prepared in accordance with the September 2, 2022, authorization from the Village of Pinecrest (Village) to negotiate with BCC Engineering, LLC. (BCC) to provide engineering services for this project. This proposal defines the scope of work, schedule, compensation, and scope of work exclusions for the professional engineering services associated with this project.

I. SCOPE OF WORK

The Scope of Work is comprised of the following essential tasks:

- Task 1 – Data Collection and Evaluation
 - Task 1-1 General Data Collection
 - Task 1-2 Surveying and Mapping
 - Task 1-3 Geotechnical Investigations
 - Task 1-4 Subsurface Utility Engineering
- Task 2 – Design Plans and Specifications
 - Task 2-1 Drainage Analysis and Documentation
 - Task 2-2 Design Plans and Specifications
- Task 3 – Permitting
- Task 4 – Post-design Services

Task 1 – Data Collection and Evaluation

Task 1-1 General Data Collection

BCC will attend one meeting with Village staff to collect readily available data from the Village. This meeting will also be used as the project kick-off meeting. The data anticipated to be collected from the Village will include:

- GIS data/atlas maps
- Available reports and data available for the project limits
- All other data that will assist BCC in the analysis and design of the project

BCC will review, evaluate, and catalog all data collected from the Village.

As part of this task, BCC will also perform a half-day field reconnaissance site visit to help familiarize key BCC staff with the site and drainage conditions within the project limits, observe the conditions of the existing drainage systems, and verify available roadway conditions.

BCC will also coordinate with the surveying, geotechnical, and subsurface utility engineering sub-consultants to provide direction on the input and direction. BCC will also review the subconsultant's deliverables and provide comments before the documents are completed.

Task 1-2 Surveying and Mapping

BCC will retain GPI, Inc. (GPI) to perform surveying and mapping services for approximately 3890 linear feet of roadway to support the design. GPI will develop and calibrate a point cloud to be used to extract all above-ground topographic features. The scope also includes calibrating and processing the

data and providing to the BCC the Point Cloud LiDAR Data. The 3D Survey will extend up the building (residences) lines and will show the existing finish floor elevations. GPI will also provide Primary and Secondary Horizontal and Vertical Control for this project and will survey all drainage structures within the project limits, obtaining invert elevations, pipe size, material, and flow direction. Drainage investigation will include locating horizontally and vertically the existing outfall pipes into the C-100 canal. All geospatial tasks will be performed in accordance with the current Standards of Practice for Surveying and Mapping in the State(s) where the project is located.

GPI will set the Terrestrial LiDAR Targets (TML) as per the layout prepared for this project. All Targets will be controlled horizontally by performing double occupation RTK/GPS, Base-Rover connection with the base set on the primary control points set for this project. Vertical information for all the Targets points will be obtained by performing a digital level closed run from existing Miami-Dade County Published Benchmarks. In addition, GPI will perform the following additional activities:

- Set 5 Primary Control Points for this project to establish survey control for the design.
- Show R/W lines for the corridor using Miami-Dade County GIS lines. GPI is not going to perform a R/W surveying for this project.
- Survey utility marks (designates) of the underground lines as marked by M.G. Vera & Associates, Inc (MV).
- Survey and show all trees along the project corridor within the right-of-way limits, identifying common name, trunk diameter, canopy, and height.
- Provide Signed and Sealed 11"x17" Topographic Survey for the entire corridor.
- Provide a CIVIL 3D file with Topographic Survey for the entire corridor.

Task 1-3 Geotechnical Investigations

BCC will retain GCES Engineering Services, LLC. (GCES) to perform geotechnical investigations services to support the design. The purpose of the geotechnical services is to determine site drainage and roadway base characteristics. These services will include field and laboratory testing programs. The field program will consist of providing the following services:

Field Exploration

The field program will consist of providing the following services:

- Site Reconnaissance: A geotechnical specialist will conduct a site reconnaissance prior to the subsurface exploration. The site reconnaissance will note surface features that may impact or require consideration regarding the planned subsurface exploration.
- Subsurface Exploration: GCES will perform a total of four (4) Standard Penetration Test (SPT) borings at the exfiltration test locations to depths of 15 feet below ground surface below the existing ground surface.
- GCES will conduct four (4) exfiltration tests - Usual Open Hole tests - to depths of 15 feet below the existing ground surface in accordance with South Florida Water Management District (SFWMD) to determine the hydraulic conductivity of the subsoils for drainage improvements.
- Approximately four (4) pavement cores will be taken using a 6-inch diameter core barrel. The core holes will be patched upon completion using cold mix asphalt.
- MOT operations are not anticipated for the fieldwork.

- **Sampling:** Sampling of the test borings will be conducted in general accordance with ASTM D1586 standards. Continuous samples are typically obtained in the top 10 feet, and one sample is generally obtained every 5 feet for the remaining depth of the boring.
- Groundwater levels measured during the fieldwork will be noted in the boring logs.
- GCES will store the samples in our laboratory facility for a period of 6 months after fieldwork completion. After six (6 months), GCES will dispose of the stored samples.

Materials encountered at the test locations will be identified in the field from SPT Spoon sampling/cuttings brought to the surface by the augering process. Upon completion of drilling the borings and observation of groundwater levels, the boreholes will be backfilled with grout.

Underground Utilities, Site Access, and Boring Locations

Items to be provided by the client include the right of entry to conduct the exploration and awareness and location of any subsurface utilities existing in the area, including those privately held and/or not members of Sunshine State One Call of Florida (SSOCOF). Also, if there are any other restrictions or special requirements regarding this site or exploration, these should also be known prior to our commencing fieldwork.

We will contact SSOCOF regarding the location of underground utilities at the project site. By state law, the utility locator services are afforded a minimum of 2 full business days to clear or locate and mark utilities prior to commencement of drilling. Please note, however, that the utility locating service can locate utilities within public rights-of-way and easements but generally is not able to locate privately-owned utilities. Therefore, GCES is not responsible for the extent of any loss, damage, or injury caused by the failure to locate a utility properly or by inaccurate and/or incomplete information provided by others.

This proposal is based on the boring locations being accessible to a conventional truck-mounted drill rig without any clearing being necessary, no permit is required to perform our fieldwork, and the work can be performed during normal business hours. The boring locations will be marked in the field by GCES personnel using layout procedures. The surveying of the boring locations and elevations is not included in the geotechnical scope of work. Approximate elevations can be estimated from the contours of a topographic site plan if provided.

Traffic Control

Traffic Control may be necessary for this project. Where required, the fieldwork will be coordinated to try and minimize the amount of traffic interruption. Flagmen, barricades, variable message boards and/or directional arrows will be used to allow continuous traffic flow. The standards of practice that will be used for the Maintenance of Traffic (M.O.T.) will be obtained from the FDOT Design Standards. Any necessary permits from the City to comply with Index 600 Series of the FDOT Roadway and Traffic Design Standards will be obtained by others. GCES should be notified if any MOT will be required so we can adjust our proposal to account for such. GCES estimate only includes the use of cones, and if complex MOT is required, we will discuss this requirement with you and together determine the appropriate steps to obtain the permits.

Laboratory Testing

Soil samples will be visually classified in general accordance with the Unified Soil Classification System (USCS). Laboratory testing on samples is not included in our scope of services. The pavement

core will be examined by a lab technician in the laboratory, who will measure and describe the pavement core. No other lab testing is required for the core samples.

Engineering Report

Soil samples will be visually classified in general accordance with the Unified Soil Classification System (USCS). Laboratory testing on samples is not included in our scope of services. The pavement core will be examined by a lab technician in the laboratory, who will measure and describe the pavement core. No other lab testing is required for the core samples.

- A brief review of our test procedures and the results of testing conducted;
- Classification of soils recovered during the testing;
- Calculated hydraulic conductivity values based on our field testing; and
- Borehole water level measurements.

Task 1-4 Subsurface Utility Engineering

BCC will retain M.G. Vera & Associates, Inc. to provide subsurface utility engineering services (SUE) for 3,890 linear feet of roadway to support the design. MV will complete a SUE investigation in general accordance with ASCE Standard 38-02: Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data. MV will search for the existence and approximate location of subsurface utilities within the project limits except those listed under Utility Exclusions below. The specific work includes:

- A. Records Research through customary means:
 - a. Identify utilities anticipated to exist within the project limits.
 - b. Document responses and compile record information.
- B. Field Investigation using appropriate surface geophysical techniques:
 - a. Documented conductive utilities – designate with the objective of achieving Quality Level B for conductive utilities. Where not possible, lower Quality Levels will be established. Utilities of non-conductive material installed with serviceable tracer wire or tape will be considered conductive. It is important to note, however, that the depicted location of such utilities represents the tracer rather than the actual utility.
 - b. Documented non-conductive utilities – investigate with the objective of achieving Quality Level C. Where not possible, depict at Quality Level D.
 - c. Undocumented utilities – are those utilities that may exist in the project area that have not been previously identified, are not discovered during records research, and for which there is no prior knowledge. MV will use our standard search protocol to determine the existence and approximate location of undocumented utilities; however, this work cannot guarantee that all utilities will be found and depicted.
- C. Quality Level exceptions – the following utilities will be investigated with the objective of achieving the specific Quality Level stated:
 - a. Gravity sanitary sewers – Quality Level C.
 - b. Non-conductive utilities with ready access allowing sonde, metal tape, or detection rod insertion and tracking – Quality Level B.
 - c. Subaqueous crossings – Quality Level D.

D. Utility Exclusions – the following utilities and/or components will not be investigated:

- a. Storm sewers and drains.
- b. Utility vault or manhole interiors
- c. Service lines
- d. Traffic control loops
- e. Signage wiring
- f. Irrigation lines
- g. Cathodic protection
- h. Thrust blocks.
- i. Septic systems.
- j. Underground storage tanks, piping, and wiring.
- k. Overhead utilities

E. Vacuum Excavation – Test holes (if needed)

- a. MV proposes to use vacuum excavation equipment to perform up to nine (9) test holes at locations as directed by the BCC. Vacuum excavation methods will enable MV to visualize the utility in question for a high degree of certainty. MV will make every effort to vacuum excavate to a depth of eight (8) feet using high-pressure air methods. However, vacuum excavation will cease when these methods are unable to progress below refusal, such as bedrock or flowable fill. MV will not employ destructive methods, such as jackhammers or chipping hammers, to break up bedrock or other refusal within a test hole due to the high risk of damage to buried utilities and safety risk to employees. Utilities deeper than eight (8) feet may not be found.
- b. At the completion of each excavation, MV will place an iron rod and cap or a nail and disk at the test hole location and further identify the test hole location with paint marks on the ground surface. We will backfill with native material and compact the soil in 6"-12" lifts, as well as provide a permanent restoration of the pavement or ground surface within the limits of the original excavation. We will record the maximum depth of the test hole as well as the vertical depth of any utility encountered. If a utility is encountered, we will also provide utility type, size, shape, material, and orientation to the extent we are able to ascertain this information
- c. MV will notify Sunshine 811 two (2) full business days in advance of excavation. MV will mark the conductive utilities by inductive methods utilizing electromagnetic geophysical prospecting equipment. Known non-conductive utilities will be marked utilizing 2-D Radar (GPR).
- d. Due to mobilization costs, a minimum of nine (9) test holes can be requested, or mobilization costs will be charged.
- e. MV cannot provide vacuum excavation in areas where obstructions, such as unmovable vehicles or storage exist.

Other key assumptions include:

- MV will have ready access to the project area. Construction or clearing activities required for access to perform field services are not included.
- Standard Maintenance of Traffic (MOT) is included. Extraordinary MOT such as lane closures, route detouring, crash trucks, off-duty police officers, railroad flagging fees, and other efforts deemed atypical are not included.

- Fieldwork can be completed within normally accepted business hours and without the need for overnight or weekend work.
- Possible delays due to weather conditions will be discussed with the client and may affect the schedule.
- Hazardous material, if encountered, will immediately stop work, and MV will not be responsible for any disposal.
- Confined space entry is excluded.
- Entry onto private property beyond incidental, or where prohibited, is not included.
- Entry into buildings is not included.
- Permits are not included but can be requested if needed at additional cost.
- The Village will assist with the following activities:
 - Participate in permit applications as needed.
 - Provide all available records depicting owned utilities in the project area.
 - Assist MV as able in obtaining records of utilities in the project area owned by others.
 - Provide or facilitate access to the project area for field investigations.

Task 2 – Design Plans and Specifications

Task 2-1 Drainage Analysis and Documentation

BCC will use the data collected as part of Task 1 to develop an existing conditions localized hydrologic/hydraulic model of the project area using the ICRP V4 model. The project area will include SW 71st Avenue between SW 104th Street to SW 101st Street and SW 72nd Avenue between SW 104th Street and SW 98th Street. The limits of SW 104th Street to SW 98th Street will include the intersections up the curve return of each street. The existing conditions model will incorporate the sea-level and groundwater projections used in developing the 2015 Stormwater Master Plan (SWMP). The SWMP used the 2015 Southeast Florida Climate Compact 2015 sea-level rise projections and the 2014 Hydrologic Conditions in urban Miami-Dade County, Florida, and the Effect of Groundwater Pumpage and Increased Sea Level on Canal Leakage and Regional Groundwater Flow was used to predict groundwater projections. The conceptual designs were developed using a 2030 planning horizon with a mid-range sea level and groundwater rise: 5 inches for both.

The conceptual design included in the SWMP will be evaluated in the existing conditions ICRP V4 model and refined to locate inlets to collect stormwater runoff more efficiently, avoid utility conflicts, determine the required length of exfiltration trenches, and a number of outfalls needed to meet a 5-year, 24-hour design level of service, and evaluate backflow preventers to prevent the C-100 Canal peak stages from backing up into the SW 71st Avenue and SW 72nd Avenue drainage system. It is assumed the proposed improvements would include exfiltration trenches, outfalls, and backflow preventers. Stormwater pump stations, drainage wells, and roadway raising will not be included as part of the alternative analysis.

BCC will prepare a draft Drainage Report summarizing the data collected, including the analyses and findings of this task. BCC will provide an electronic copy to the Village for review and comment. BCC will incorporate the Village comments and will submit one electronic copy of the final Drainage Report. This report will be used as supporting documentation to prepare the permit applications outlined in Task 3.

Task 2-2 Design Plans and Specifications

BCC will use the information collected as part of Tasks 1 and Task 2 to develop construction contract documents (plans and specifications) for the proposed drainage improvements along the Phase 1 project limits. The plans and specifications will also include milling and resurfacing of the project limits and pavement marking.

It is assumed that the following drawings will be prepared (approximately 28 sheets):

- Key Sheet – 1 sheet
- Summary of Pay Items – 1 sheet
- Typical Section(s) – 1 sheet
- General Notes/Pay Items – 1 sheet
- Summary of Quantities Sheets – 1 sheet
- Survey Control Plan Sheets – 6 sheets
- Plan sheets (1"=40' scale) – 12 sheet
- Special Details – 3 sheets
- Stormwater Pollution Details – 1 sheet
- Traffic Control Notes and Details – 1 sheet

All maps, plans, and designs are to be prepared with English Units, and elevations will be based on the North American Vertical Datum of 1988 (NAVD88). Plans will be produced on 11" X 17" size sheets at the scales outlined above. BCC will provide a CD containing PDFs and all CADD project files to the Village at the conclusion of the project.

To the maximum extent practical, technical specifications will be included within the plans. It is assumed that the drawings will be included with the construction bid documents. It is assumed that the Village will prepare the front-end documents, including Divisions 0 and 1.

BCC will provide Village with three (3) sets of the 60, 90, and 100 percent construction plans and specifications for review and comment. BCC will also provide opinion of probable construction costs with the 60, 90, and 100 percent submittals. After the submittal of the 60 and 90 percent plans and specifications, BCC will attend one meeting with Village staff to obtain comments on these submittals. After the comments from the 90 percent submittal are incorporated, BCC will provide one (1) set of electronic files of the final plans and specifications for bidding purposes and one set of signed and sealed plans and specifications. It is assumed that the Village will reproduce and distribute to contractors the necessary sets of construction documents during the bidding process.

Task 3 – Permitting

The following permits are anticipated to be a part of this project:

- Environmental Resources Permit (ERP) from the South Florida Water Management District (SFWMD)
- Miami-Dade County Regulatory and Environmental and Economic Resources (RER) Class II Permit

BCC will attend a pre-application meeting with the SFWMD and one meeting with RER. BCC will use the information obtained and developed as part of Tasks 1 and 2 to prepare the permit application and obtain approval from the SFWMD and RER. BCC understands that the Village will pay for all applicable permit fees. BCC will review and address one (1) set of request for additional information (RAI) from SFWMD and RER.

Task 4 – Post-design Services

As part of this task, BCC will attend a project pre-construction meeting. BCC will also review and approve applicable shop drawings and technical submittals required by the Contract Documents. For scoping purposes, BCC will review and approve up to 10 shop drawings or technical submittals required by the Contract Documents. The review includes up to one (1) re-submittal review for correction and revision by the Contractor per submittal package. The review will include a comparison of the Contractor’s submitted documents to the requirements of the Contract Documents. In addition, any substantial deviation from the project requirements will be documented and returned to the Contractor and the Village with instructions on how to proceed based on the severity and nature of the deficiencies encountered. Once the Contractor has substantially met the project requirements, BCC will approve the submittal package in writing and provide the results to the Contractor and the Village. This task will not include the review and approval of material substitutions or evaluation of bid alternates, or value engineering.

BCC will answer and address the contractor’s Requests for Information (RFI) which requires interpretation of the plans and specifications. For budgeting purposes, it is anticipated that two (2) RFIs will be addressed as part of this task. This task includes only those RFIs that are directly related to any original products specified by BCC for the construction of this project and excludes interpretation of any documents originally created by the Village, the Contractor, or their sub-contractors and suppliers. BCC will prepare and maintain a submittal and RFI log, which will document and track the dates and results of all reviews. The log will be periodically updated and will be reviewed during the construction progress meetings.

At the end of construction, BCC will prepare and submit to the SFWMD and RER a letter certifying that construction was completed in compliance with the design plans and close out the permits.

II. SCHEDULE

BCC shall submit the deliverables and perform the work outlined in the Scope of Work in accordance with the schedule depicted in the table below. Tasks 1 through 3 will be completed within nine (9) months after receiving notice to proceed (NTC). BCC will prepare a detailed schedule after receiving NTP. The work associated with Tasks 4 will be completed in accordance with the bidding, contract award, and construction schedules.

Schedule of Deliverables	
Project Activity Description and Deliverable	Months from NTP
Task 1 – Data Collection and Evaluation	-
Task 1-1 General Data Collection	1
Task 1-2 Surveying and Mapping	2
Task 1-3 Geotechnical Investigations	2
Task 1-4 Subsurface Utility Engineering	2
Task 1-4 Subsurface Utility Engineering (Optional)	3
Task 2 – Design Plans and Specifications	-
Task 2-1 Drainage Analysis and Documentation	4
Task 2-2 Design Plans and Specifications	8
Task 3 – Permitting	9
Task 4 – Post-design Services	TBD

III. COMPENSATION

BCC will be compensated for the scope of work outlined in Task 1 through Task 3, \$165,339.00, on a lump sum basis. Task 2-3 Subsurface Utility Engineering includes a not-to-exceed optional services amount of \$3,411.00 to perform vacuum excavation services if needed (minimum 9 test holes - \$379 per test hole). This fee is not included in the total lump sum amount of \$18,750.00. Task 4 will be compensated on a time and material basis, not to exceed \$187,500.00. The total fee for all tasks is \$187,500.00. The table below outlines the estimated fee schedule for the required deliverables. Attachment A includes a detailed breakdown of the man-hour estimate per task.

Summary of Compensation	
Project Activity Description and Deliverable	Fee Amount
Task 1 – Data Collection and Evaluation	-
Task 1-1 General Data Collection	\$ 6,820.00
Task 1-2 Surveying and Mapping	\$ 28,283.73
Task 1-3 Geotechnical Investigations	\$ 9,130.06
Task 1-4 Subsurface Utility Engineering	\$ 11,418.29
Task 1-4 Subsurface Utility Engineering (Optional)	\$ 3,468.96
Task 2 – Design Plans and Specifications	-
Task 2-1 Drainage Analysis and Documentation	\$ 28,125.00
Task 2-2 Design Plans and Specifications	\$ 66,561.91
Task 3 – Permitting	\$ 15,000.00
Task 4 – Post-design Services	\$ 18,750.00
TOTAL	\$ 187,500.00

BCC will submit to the Village monthly invoices for the percent of work completed during each month for the lump sum tasks and hours spent each month for the time and material tasks.

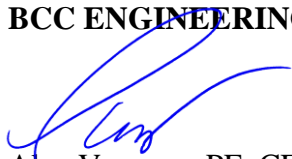
IV. SCOPE OF WORK EXCLUSIONS

The services outlined below are not included as part of the scope of work, although additional service orders can be executed to assist the Village with these services if necessary:

1. Water quality modeling
2. Environmental assessment
3. Title search or ownership determination
4. Prepare a public outreach program
5. Consumptive Use or dewatering permits
6. Tree disposition plans or tree permits
7. Irrigation design
8. Stormwater pump station design
9. Utility relocation design
10. Permit fees
11. Attend public workshops or meetings
12. Update the current Stormwater Master Plan
13. Advertise and administer bid and contract award
14. Reproduce construction contract documents for bidding purposes
15. Prepare and distribute Addendums
16. CEI inspection services
17. Attend Commission meetings
18. Prepare as-built plans
19. Any work items not included in the Scope of Work

We look forward to assisting the Village on this important project assignment. If you have any questions or need additional information, please do not hesitate to contact Carlos Formoso, PE, or me at (305) 670-2350.

Sincerely
BCC ENGINEERING, INC.



Alex Vazquez, PE, CFM
Director of Water Resources/Project Manager