

Work Authorization No. KCI-018
for
Broadview Park Green Infrastructure Improvement Conceptual Plans

1. This Work Authorization is between Broward County ("County") and **KCI Technologies, Inc.** ("Consultant") (collectively referred to as the "Parties") and issued pursuant to the Agreement between County and Consultant for **Consultant Services for Continuing Professional Services for Construction Engineering and Inspection ("CEI") and Design Services for Roadway and Traffic Projects, RFP No. PNC2121897P1**, dated **January 21, 2022** (as amended, the "Agreement").

2. This Work Authorization requires Consultant to provide the services described in Exhibit A, Scope of Services, attached hereto and incorporated into this Work Authorization, and is issued pursuant to Article 4 of the Agreement.

3. **Compensation and Method of Payment.**

3.1 Payment for the services authorized by this Work Authorization will be in accordance with Article 6 of the Agreement and the agreed method of compensation is as follows (check those boxes that apply):

3.1.1 **Maximum Amount Not-To-Exceed Compensation.** County shall pay Consultant for the performance of the services described in Exhibit A, and payable on a "Maximum Amount Not-To-Exceed" basis, with such amount calculated based upon the Salary Costs described in Section 6.2 of the Agreement, up to a maximum amount not-to-exceed of Six Hundred Forty-Nine Thousand Five Hundred Eighty Seven and 73/100 Dollars (\$649,587.73).

3.1.2 **Lump Sum Compensation.** County shall pay Consultant for the performance of the services described in Exhibit A, and payable on a "Lump Sum" basis, a total lump sum amount of \$0.00.

3.1.3 **Reimbursable Expenses.** County has established a maximum amount not-to-exceed of \$0.00 for potential reimbursable expenses that may be utilized pursuant to Section 6.3 of the Agreement. County will retain any unused amounts of those monies established for reimbursable expenses.

3.2 Payments for this Work Authorization will be charged against:

Budget No. **35100-11600-61604000-560110/560505-106128 Drainage**

4. Schedule.

Consultant shall perform the services described in Exhibit A within:

_____ calendar days ("Time for Performance"),

the time periods specified in the Project Schedule included in Exhibit A ("Time for Performance"); said Time for Performance shall commence from the date of the Notice to Proceed for such services.

5. CBE Goals.

The CBE participation for this Work Authorization is 90.45%. However, this goal shall not relieve or limit Consultant's obligation to meet the requirement of CBE participation percentage for the total dollar amount of services performed under the Agreement and all Work Authorizations.

6. The terms and conditions of the Agreement are hereby incorporated into this Work Authorization. Nothing contained in this Work Authorization shall alter, modify, or change in any way the terms and conditions of the Agreement with the County.

7. This Work Authorization is effective upon complete execution by County and Consultant. This Work Authorization may be executed in multiple originals, and may be executed in counterparts, whether signed physically or electronically, each of which shall be deemed to be an original, but all of which, taken together, shall constitute one and the same agreement.

List of Exhibits:

Exhibit A: Scope of Services

Exhibit B: Negotiated Fee

[Remainder of This Page Is Intentionally Left Blank.]

IN WITNESS WHEREOF, the Parties hereto have made and executed this Agreement: Broward County, through its Board of County Commissioners, signing by and through its Mayor or Vice-Mayor, authorized to execute same by Board action on the ____ day of _____, 20__; and Consultant, signing by and through its duly authorized representative.

COUNTY

ATTEST:

BROWARD COUNTY, by and through
its Board of County Commissioners

By: _____
Broward County Administrator, as
ex officio Clerk of the Broward County
Board of County Commissioners

By: _____
Mayor
____ day of _____, 20__

Approved as to form by
Andrew J. Meyers
Broward County Attorney
115 South Andrews Avenue, Suite 423
Fort Lauderdale, Florida 33301
Telephone: (954) 357-7600

By _____
Gavin P. Rynard (Date)
Assistant County Attorney

By _____
Michael J. Kerr (Date)
Chief Counsel

MJK/gpr
Work Authorization No. KCI-018
08/27/24
#1121252

Work Authorization No. KCI-018
for
Broadview Park Green Infrastructure Improvement Conceptual Plans

CONSULTANT

KCI TECHNOLOGIES, INC.

By: **Bruce K Reed** 
Authorized Signer

Digitally signed by Bruce K Reed
DN: cn=Bruce K Reed,
serial=183141500000318BCE2F7980014D17,
o=KCI TECHNOLOGIES INC., c=US
Date: 2024.09.03 14:04:19-04'00'

Bruce Reed
Vice President/Regional Practice Leader
Print Name and Title

3rd day of September, 2024



EXHIBIT A

BROWARD COUNTY

**RFP No. PNC2121897P1
KCI TECHNOLOGIES, INC.**

**CONTINUING PROFESSIONAL SERVICES FOR CONSTRUCTION ENGINEERING AND INSPECTION ("CEI")
AND DESIGN SERVICES FOR ROADWAY AND TRAFFIC PROJECTS**

WORK AUTHORIZATION No. KCI-018

FOR

BROADVIEW PARK GREEN INFRASTRUCTURE IMPROVEMENT CONCEPTUAL PLANS

SCOPE OF SERVICES

EXHIBIT A
Scope OF Services
Work Authorization No. KCI-018

GENERAL

1. PURPOSE

Broward County (“County”) engages KCI Technologies, Inc.’s (“Consultant”) to provide County with professional Services and engineering Services necessary to design the Broadview Park Green Infrastructure Improvements Project (“Project”) to later be constructed (“Construction Work”) under County’s Continuing Professional Services for Construction Engineering and Inspection (“CEI”) and Design Services for Roadway and Traffic Projects Agreement (“Agreement”). This Scope of Services will include Project management throughout all phases of the Project, technical deliverable reviews, meeting attendance, issue resolution, and production of grant applications.

The Project design limits for this Work Authorization will be within Broward County limits.

County and Consultant must each appoint a Project Manager who will be responsible for coordination between them in connection with Consultant’s performance of the activities as stated in this Scope of Services (each a “Project Manager”).

2. CONTRACT MANAGEMENT

County’s Project Manager will serve as the primary day-to-day point of contact with Consultant for matters relative to the Project. Project invoices prior to payment will be subject to County’s Contract Administrator’s review and approval. County’s Project Manager will be responsible for the approval of activities related to the Project and will serve as the liaison between Consultant and County.

During the term of this Work Authorization, Consultant’s tasks will be subject to County’s Project Manager review and approval. Consultant will cooperate and assist County staff in conducting these reviews.

Consultant will identify key personnel to perform and direct work, who will then be approved by County’s Project Manager. Any changes in the approved personnel shall be subject to review and approval by County’s Project Manager.

3. TIME FOR PERFORMANCE

Consultant must complete all Services associated with this Work Authorization within 360 calendar days after County’s Contract Administrator’s issuance of its Notice to Proceed (“NTP”).

4. TASK SERVICES

The Services performed by Consultant shall follow all applicable federal, state, and County laws, policies, regulations, standards, manuals, and guidelines.

Consultant will provide the Services detailed in Subtasks 4.1 through 4.4. The compensation to Consultant is based on the negotiated work hours on Exhibit B.

This Scope of Services defines the necessary Services for the Broadview Park green infrastructure improvements concept plans and permit documents. The Scope of Services will include analysis, design, permitting, preparation of specifications, and estimates.

4.1 Line and Grade Plans (15% Plans)

4.1.1 Analysis

Consultant will set up the initial line and grade for the horizontal/vertical master design file and maintain the design file throughout each phase submittal.

Consultant will analyze the initial line and grade analysis, design of the stormwater collection and conveyance, and stormwater management systems required to meet the Project goals.

All drainage, roadway, and grading analysis work must comply with the master plan study recommendations.

Consultant will analyze the initial delineation of contributing drainage areas, inlet locations, and spread, which is the distance of the stormwater flowing down a pavement and gutter section from the face of the gutter to the water's edge.

Consultant will analyze the initial location of the pump stations.

Consultant will analyze the initial identification of limits of the Construction Work associated with the proposed drainage improvements.

4.1.2 Design

Consultant will design 15% plans of line and grade of roadway conveyance and outfall ditches, which must include capacity calculations, longitudinal grade adjustments, flow changes, additional adjustments for ditch convergences, selection of suitable lining, design of side drainage pipes, and associated documentation.

Line and grade design of stormwater management facilities must meet requirements for stormwater quality treatment and attenuation. Consultant will develop a proposed pond layout (contributing drainage basin, shape, contours, slopes, volumes, tie-ins, etc.).

Consultant will design 15% plans of floodplain encroachments, coordinate with regulatory agencies and develop 15% plans of proposed compensation area layout (shape, contours, slopes, volumes, etc.). Consultant must then document the design following the requirements of the regulatory agency.

Consultant will identify all utilities within and adjacent to the limits of the Construction Work associated with the proposed drainage improvements.

4.1.3 Plan Set

For this task 4.1, Consultant must prepare line and grade design plan sheets, notes, and details. The plans must include the sheets necessary to convey the intent and scope of the Construction Work, including but not limited to the following documents:

- Key Sheet
- Layout Sheet
- Drainage Map
- Typical Sections Sheets
- Plan and Profile Sheets
- Drainage Structures Sheets
- Retention Area Detail Sheets
- Special Detail Sheets

4.1.4 Pay Items

Consultant must identify necessary pay items required to bid the concept plans, and prepare a draft pay items list that includes standard pay items and special items for this task 4.1.

4.1.5 Specifications

Consultant must prepare a draft specifications package that includes standard specifications and special provisions for all identified pay items for this task 4.1.

4.1.6 Coordination

Consultant must coordinate the work effort including meetings for this task 4.1.

4.1.7 Quality Assurance/ Quality Control

Consultant must establish and implement a quality assurance/ quality control ("QA/QC") plan for this task 4.1, including but not limited to quality process logs, internal review with mark-ups, and quality control documentation.

Consultant shall be responsible for the professional quality, technical accuracy, and coordination of the records research, surveys, designs, drawings, specifications, and other services furnished by Consultant under this Work Authorization.

4.1.8 Scheduling

Consultant must complete the Line and Grade Plans (15%) subtask within 60 calendar days after County's Contract Administrator's issuance of its NTP.

4.2 Concept Plans and Permits

4.2.1 Analysis

Consultant must prepare a 30% horizontal/vertical master design file and maintain the design file throughout each phase submittal.

Consultant must perform 30% analysis and design of the stormwater collection, conveyance, and stormwater management systems required to meet the Project goals.

All Consultant's drainage, roadway, and grading analysis work must comply with the master plan study recommendations.

Consultant must perform final assessment of the delineation of contributing drainage areas, inlet locations, and spread based on the master plan study recommendations.

Consultant must also perform final assessment of limits of the Construction Work associated with the proposed drainage improvements.

Consultant must define the location of the drainage pipes, drainage structures, and pump stations. Consultant must determine size and invert elevation of the drainage pipes, and drainage structures.

4.2.2 Design

Consultant must design 30% plans of roadway conveyance and outfall ditches, which will include capacity calculations, longitudinal grade adjustments, flow changes, additional adjustments for ditch convergences, selection of suitable lining, design of side drainage pipes, and associated documentation.

Consultant must design 30% plans of stormwater management facilities to meet requirements for stormwater quality treatment and attenuation. Consultant will develop

a proposed pond layout (contributing drainage basin, shape, contours, slopes, volumes, tie-ins, etc.).

Consultant must make a determination of floodplain encroachments, coordinate with regulatory agencies and develop 30% plans of proposed compensation area layout (shape, contours, slopes, volumes, etc.). Consultant must then document the design following the requirements of the regulatory agency.

4.2.3 Plan Set

For this task 4.2, Consultant must prepare concept design plan sheets, notes, and details. The plans must include the sheets necessary to convey the intent and scope of the Construction Work, including but not limited to the following documents:

- Key Sheet
- Layout Sheet
- Drainage Map
- Typical Sections Sheets
- Plan and Profile Sheets
- Drainage Structures Sheets
- Retention Area Detail Sheets
- Special Detail Sheets

4.2.4 Quantities

Consultant must update the necessary pay items required to bid the concept plans and prepare the bid quantities.

4.2.5 Final Specifications

Consultant must prepare a specifications package that includes standard specifications and special provisions for all identified pay items.

4.2.6 Drainage Report

Consultant must compile drainage design documentation into report format, which includes documentation for all the drainage design tasks and associated meetings and decisions.

4.2.7 South Florida Water Management District (“SEWED”) Environmental Resource Permits Application/Coordination

Consultant must compile data and information necessary to prepare the permit applications and obtain the environmental permits required to perform the Construction Work. Consultant must prepare the permit applications in accordance with the rules and regulations of the regulatory agency responsible for issuing a specific permit or authorization to perform work.

4.2.8 SEWED Right-of-Way (“ROW”) Occupancy Permit Application/Coordination

Consultant must compile the data and information necessary to prepare the permit applications and obtain the ROW occupancy permit and authorizations required to perform the Construction Work. Consultant must prepare the permit applications in accordance with the rules and regulations of the regulatory agency responsible for issuing a specific permit or authorization to perform work.

4.2.9 Coordination

Consultant must coordinate the work effort including meetings for this task 4.2.

4.2.10 QA/QC

Consultant must establish and implement a QA/QC plan for this task 4.2, including but not limited to quality process logs, internal review with mark-ups, and quality control documentation.

Consultant shall be responsible for the professional quality, technical accuracy, and coordination of the records research, surveys, designs, drawings, specifications, and other services furnished by Consultant under this Work Authorization.

4.2.11 Scheduling

Consultant must complete the Concept Plans and Permits subtask within 120 calendar days after County's Contract Administrator's issuance of its NTP.

4.3 Bid Plans (45% Plans)

4.3.1 Analysis

Consultant must prepare a 45% horizontal/vertical master design file and maintain the design file throughout each phase submittal.

Consultant must perform 45% analysis and design of the stormwater collection, conveyance, and stormwater management systems required to meet the Project goals.

All Consultant's drainage, roadway, and grading analysis work must comply with the master plan study recommendations.

Consultant must perform final assessment of the delineation of contributing drainage areas, inlet locations, and spread based on the master plan study recommendations.

Consultant must also perform final assessment of limits of the Construction Work associated with the proposed drainage improvements.

Consultant must define the location of the drainage pipes, drainage structures, and pump stations. Consultant must determine size and invert elevation of the drainage pipes, and drainage structures.

4.3.2 Design

Consultant must design 45% plans of roadway conveyance and outfall ditches, which will include capacity calculations, longitudinal grade adjustments, flow changes, additional adjustments for ditch convergences, selection of suitable lining, design of side drainage pipes, and associated documentation.

Consultant must design 45% plans of stormwater management facilities to meet requirements for stormwater quality treatment and attenuation. Consultant will develop a proposed pond layout (contributing drainage basin, shape, contours, slopes, volumes, tie-ins, etc.).

Consultant must define floodplain encroachments, coordinate with regulatory agencies and develop 45% plans of proposed compensation area layout (shape, contours, slopes, volumes, etc.). Consultant must then document the design following the requirements of the regulatory agency.

4.3.3 Plan Set

For this task 4.3, Consultant must prepare concept design plan sheets, notes, and details. The plans must include the sheets necessary to convey the intent and scope of the Construction Work, including but not limited to the following documents:

- Key Sheet

- Layout Sheet
- Drainage Map
- Typical Sections Sheets
- Plan and Profile Sheets
- Drainage Structures Sheets
- Retention Area Detail Sheets
- Special Detail Sheets

4.3.4 Bid Quantities

Consultant must update the necessary pay items and bid quantities required for 45% plans.

4.3.5 Final Specifications

Consultant must answer all questions and clarifications that are technical in nature from bid preparation.

4.3.6 Drainage Report

Consultant must update the concept plans drainage report with feedback from the permitting agencies and compile drainage design documentation into report format, which includes documentation for all the drainage design tasks and associated meetings and decisions.

4.3.7 Coordination

Consultant must coordinate the work effort including meetings for this task 4.3.

4.3.8 QA/QC

Consultant must establish and implement a QA/QC plan for this task 4.3, including but not limited to quality process logs, internal review with mark-ups, and quality control documentation.

Consultant shall be responsible for the professional quality, technical accuracy, and coordination of the records research, surveys, designs, drawings, specifications, and other services furnished by Consultant under this Work Authorization.

4.3.9 Scheduling

Consultant must complete the Bid Plans (45% plans) subtask within 180 calendar days after County's Contract Administrator's issuance of its NTP.

4.4 Deliverables

Consultant will provide the following technical documentation and CADD files at the appropriate phase submittal for approval or use by County. Phase submittals will be submitted as a compressed file (ZIP format) which contains all completed deliverables at the time of submission.

- One (1) PDF format file 11" x 17" set of construction contract plans for each phase submittal
- Electronic files in CADD OpenRoads Designer ("ORD") for each phase submittal
- Supporting reports required for each phase submittal including but not limited to:
 - Records Research Documentation
 - Utility Coordination Records
- Drainage Report for each phase submittal
- Supporting engineering calculations
- Permit Submittal Package and backup documentation

- Pay Item List and Tabulation of Quantities
- Technical Specifications Package
- Technical Special Provisions

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EXHIBIT B - NEGOTIATED FEE
Work Authorization No. KCI-018 KCI Technologies, Inc
Broadview Park Green Infrastructure Improvement Conceptual Plans
BASIC SERVICES

CONTINUING PROFESSIONAL SERVICES FOR CONSTRUCTION ENGINEERING AND INSPECTION ("CEI")
 AND DESIGN SERVICES FOR ROADWAY AND TRAFFIC PROJECTS
 Contract RFP# PNC2121897P1

Table 1 - Maximum Not-To-Exceed Staff Hour Estimate

KCI Technologies, Inc

Project Coordination					
Task No.	WORK ACTIVITY DESCRIPTION	Project Manager 1	Secretary / Clerical	Total Staff Hours	TOTAL UNLOADED SALARY COST
	Unloaded Rate	\$76.07	\$28.35		
	PROJECT GENERAL TASKS				
1	Project Coordination	140	400	540	\$21,989.80
	ESTIMATED HOURS BY STAFF CLASSIFICATION	140	400	540	
	ESTIMATED COST BY STAFF CLASSIFICATION	\$10,649.80	\$11,340.00		\$21,989.80
	PERCENTAGE OF TOTAL COST	48%	52%		

KCI (Prime) Est. Cost (Unloaded)	\$21,989.80
KCI (Prime) Total Est. Cost (Loaded 2.82 Multiplier)	\$62,011.24
KCI Staff Hours SubTotal (Maximum Amount Not-To-Exceed Compensation)	\$62,011.24
SUBCONSULTANT COSTS:	
Snubbs TOTAL (Sub consultant see Table 2)	\$587,576.49
SubConsultant Staff Hours SubTotal (Maximum Amount Not-To-Exceed Compensation)	\$587,576.49
REIMBURSABLES FOR DIRECT NON-SALARY EXPENSES:	
	\$0.00
Reimbursables SubTotal	\$0.00
GRAND TOTAL	\$649,587.73

EXHIBIT B - PRE-NEGOTIATED FEE
Work Authorization No. KCI-018 KCI Technologies, Inc
Broadview Park Green Infrastructure Improvement Conceptual Plans
BASIC SERVICES
CONTINUING PROFESSIONAL SERVICES FOR CONSTRUCTION ENGINEERING AND INSPECTION ("CEI")
AND DESIGN SERVICES FOR ROADWAY AND TRAFFIC PROJECTS
Contract RFP# PNC2121897P1

Table 2 - Snubbs Consulting Inc. Maximum Not-To-Exceed Staff Hour Estimate

Snubbs Consulting Inc.

Task No.	WORK ACTIVITY DESCRIPTION	Sr Engineer 1	Engineer 2	Engineer 1	Engineering Intern	Engineering Technician	Total Staff Hours	TOTAL UNLOADED SALARY COST
	Unloaded Rate	\$78.60	\$64.78	\$52.50	\$37.86	\$31.20		
4.1. Line and Grade Plans (15% Plans)							702	\$36,804.70
4.1.1	Analysis	20	60	20	60	40	200	\$10,028.40
4.1.2	Design	20	60	20	60	40	200	\$10,028.40
4.1.3	Plan Set	16	48	16	48	32	160	\$8,022.72
4.1.4	Pay Items	4	6	4	6	8	28	\$1,389.84
4.1.5	Specifications	8	12	8	12	16	56	\$2,779.68
4.1.6	Coordination (2%)	13	0	0	0	0	13	\$1,012.37
-	Supervision (2%)	13	0	0	0	0	13	\$1,012.37
4.1.7	QA/QC (5%)	32	0	0	0	0	32	\$2,530.92
4.2. Concept Plans (30% Plans) and Permit							1622	\$84,710.91
4.2.1	Analysis	40	40	120	120	60	380	\$18,450.40
4.2.2	Design	40	40	120	120	60	380	\$18,450.40
4.2.3	Plan Set	24	80	24	72	48	248	\$12,552.32
4.2.4	Quantities	8	24	8	24	16	80	\$4,011.36
4.2.5	Specifications	4	12	4	12	8	40	\$2,005.68
4.2.6	Drainage Report	12	36	12	36	24	120	\$6,017.04
4.2.7	SFWMD ERP Application/Coordination	20	20	40	20	20	120	\$6,348.80
4.2.8	SFWMD ROW Occupancy Permit Application/Coordination	20	20	40	20	20	120	\$6,348.80
4.2.9	Coordination (2%)	30	0	0	0	0	30	\$2,339.14
-	Supervision (2%)	30	0	0	0	0	30	\$2,339.14
4.2.10	QA/QC (5%)	74	0	0	0	0	74	\$5,847.84
4.3. Bid Plans (45% Plans)							1549	\$80,400.71
4.3.1	Analysis	32	60	80	60	40	272	\$14,121.60
4.3.2	Design	32	60	80	60	40	272	\$14,121.60
4.3.3	Plan Set	40	80	80	120	140	460	\$21,437.60
4.3.4	Bid Quantities	16	40	40	40	32	168	\$8,461.60
4.3.5	Final Specifications	16	40	40	40	40	176	\$8,711.20
4.3.6	Drainage Report	8	24	8	24	16	80	\$4,011.36
4.3.7	Coordination (2%)	27	0	0	0	0	27	\$2,119.06
-	Supervision (2%)	27	0	0	0	0	27	\$2,119.06
4.3.8	QA/QC (5%)	67	0	0	0	0	67	\$5,297.64
							SNUBBS TOTAL COSTS (UNLOADED)	\$201,916.32
							SNUBBS LOADED TOTAL COSTS (2.91 Multiplier)	\$587,576.49
							SNUBBS GRAND TOTAL (Maximum Not-to-Exceed)	\$587,576.49