

**WORK AUTHORIZATION #CM2287-WA 16
NASSAU COUNTY
BOARD OF COUNTY COMMISSIONERS**

Consultant:	Peters & Yaffee, Inc.
Contract Number:	CM2287-WA16
Contact Name:	Dow Peters
Contact Number:	904 265-0751
Email:	dpeters@petersandyaffee.com

CURRENT WORK AUTHORIZATION			
Project Short Title: Chester Road Drainage Study			
		CONTRACT OVERVIEW	
Date Submitted	9-7-21	Total of Previous Authorizations	\$818,354.50
Amount	\$47,819.09	This Work Authorization	\$47,819.09
Scheduled Completion	4 weeks from WA 16 approval	Current Contract Total	\$866,173.59

This Work Authorization is to the AGREEMENT between Nassau County and Peters & Yaffee, Inc. ("Vendor") for Professional Services in Nassau County, Florida, dated May 9, 2016. The services to be provided under this Work Authorization are as follows:

ARTICLE 1. Services Described as:

A safety study report that will analyze the historical and current conditions of of the drainage basins associated with existing wetland areas located East of Chester Road, North of Heron Isles Parkway, South of Green Pine Road/Blackrock Road and West of Blackrock Road. The study will determine the cause(s) of flooding that is occurring in the Glen Laurel Subdivision.

Under the scope of work for this Work Authorization, Peters & Yaffee, Inc. will prepare hydrologic and hydraulic calculations to include the existing wetland systems, permitted stormwater ponds, amenity ponds and cross drains. The Consultant will prepare and submit a Drainage Study summarizing the results of the analysis and calculations.

ARTICLE 2. Time Schedule

Work under the Scope of Services provided will begin no later than one week after this Work Authorization is fully executed and Peters & Yaffee has received Notice to Proceed.

ARTICLE 3. Budget

The cost estimated to perform the work as described is \$47,819.09. Costs incurred will be performed as outlined in the Scope of Services for a lump sum fee amount. The County will be notified when the overall project budget is nearing its limit.

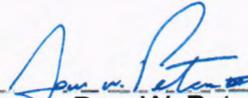
ARTICLE 4. Other Provisions

The Services covered by this Work Authorization will be performed in accordance with the provisions set forth in the AGREEMENT referenced above and any of its attachments or schedules. Additional terms or contract provisions whether submitted purposely or inadvertently, shall have no force or effect. This Work Authorization will become a part of the referenced AGREEMENT when executed by both parties.

In presenting this Work Authorization, Vendor agrees that:

Unless detailed herein, all drawings, data, electronic files and other information required for this Work Authorization has been accepted by Vendor. Specifically, all electronic files have been reviewed and accepted for the purposes of this Work assignment. Any additional information, including detailed scope of services are attached.

AGREED TO BY:

BY: 
Print Name: Dow W. Peters III
Title: President
Date: 11/18/2021

Account number(s):

03420541-531000

RECOMMENDED AND APPROVED BY NASSAU COUNTY:

County Engineer:

DocuSigned by:
Robert Companion 11/12/2021
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DocuSigned by:
Department Head or Designee

Procurement:

Marshall Eyerman 11/12/2021
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Office of Management & Budget:

DocuSigned by:
Marshall Eyerman 11/16/2021 DS
AK
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11/16/2021

County Manager:

DocuSigned by:
Taco Pope 11/17/2021
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Taco E. Pope, AICP

Ex-Officio Clerk:

N/A
DocuSigned by:
John A. Crawford

County Attorney:

Denise C. May 11/17/2021
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APPROVED by the BOARD OF COUNTY COMMISSIONERS, this ____ day of _____, 2021.

**BOARD OF COUNTY COMMISSIONERS
NASSAU COUNTY, FLORIDA**

N/A

Thomas R. Ford
Chairman

ACCOUNT NO.:

03420541-531000

EXHIBIT A
SCOPE OF SERVICES
ENGINEERING SERVICES
FOR
Chester Road Drainage Study
NASSAU COUNTY, FLORIDA

September 3, 2021

A. PROJECT DESCRIPTION

1. The intent of this project is to analyze the historical and current conditions of the drainage basins associated with existing wetland areas located East of Chester Road, North of Heron Isles Parkway, South of Green Pine Rd/Blackrock Road and West of Blackrock Road This study is being prepared to determine the cause(s) of flooding that is occurring in the Glen Laurel Subdivision.
2. A project aerial is attached that details the project limits.
3. The scope of this project is based on discussions with Nassau County Staff.

B. PROJECT SCOPE

1. Data Collection

- a. *Existing Stormwater Permit Information* – includes gathering all pertinent information including construction plans, drainage computations and correspondence from the St. Johns River Water Management District's (SJRWMD) online database.
- b. *Existing Contour Information* – includes gathering all existing contour information for the project basins.
- c. *Field Review* – includes a site visit by two Peters and Yaffee personnel to review the existing condition of the stormwater system and document existing drainage infrastructure, including any associated with the pond located south of Clements Road.
- d. *Survey* – The Consultant shall provide survey services within the project limits as follows:
 - a. Prepare a survey map and digital file of the following items:

- i. Locate seven cross drains and provide pipe size, material and inverts.
 - ii. Provide a cross section 5 feet upstream and downstream of each cross drain. The normal water level elevation visible on headwalls and up to 3 trees near the headwalls will be surveyed.
 - iii. A DTM survey will be provided of the areas north and south of the entrance to Breezeway Court and between the Chester Road edge of pavement and R/W as shown in the attached Survey Exhibits A and B.
 - iv. TBM's will be set at each cross drain and elevations will be established from redundant RTK GPS observations on the TBM's. Vertical accuracy as reference to NAVD88 vertical datum will be +/- 0.15 feet. Vertical as-built data at cross drains will be relative to the TBM established at each cross drain.
- b. Surveyed data will be referenced to NAD83/2011 horizontal datum.
 - c. Survey deliverables will include a digital data (CADD) files for the survey data in Microstation SS10 format and a signed and sealed survey map.

2. Project General Tasks

- a. *Notice to Proceed Meeting* – The Consultant shall prepare for and attend one Notice to Proceed Meeting with Nassau County staff.
- b. *Project Status Meetings* – The appropriate members of the Consulting team shall attend up to two progress meetings with the County staff to discuss project progress and status, upcoming events and activities. The purpose of these meetings is to maintain clear communication between the County and the Consultant. The Consultant shall prepare and distribute meeting minutes following each of these meetings.
- c. *Project Schedule* – The Consultant shall prepare and submit a project schedule for this project identifying major tasks, their duration and tasks relationships. The schedule shall be updated monthly and at other appropriate intervals.
- d. *Invoices/Progress Reports* – Invoices shall be prepared in the format prescribed by the County. Progress reports shall be submitted with each monthly invoice.
- e. *Quality Assurance/Quality Control* – The Consultant shall designate appropriate staff to conduct Quality Assurance/Quality Control (QA/QC) reviews of all work products prior to submittals to the County.

3. Drainage Analysis

The Consultant will prepare hydrologic and hydraulic calculations to include the existing wetland systems, permitted stormwater ponds, amenity ponds and cross drains indicated on the attached aerial exhibit. Potential improvements to the existing system will include analyzing the addition of a cross drain that connects the North Wetland to the South Wetland.

4. Drainage Plans

A drainage map on aerial background will be included in the Study.

5. Drainage Study

The Consultant will prepare and submit a Drainage Study summarizing the results of the drainage analysis and calculations.

B. PROJECT DELIVERABLES

The Consultant shall contact the County prior to making a submission to verify the number of copies to submit. Up to five draft copies of the Drainage Study and required supporting documents will be submitted with the final submittal.

C. COMPENSATION

Peters and Yaffee, Inc. will perform the Scope of Services outlined herein for a lump sum fee of \$ 47,819.09. A breakdown of the fees is below.

Firm Name	Role	Fee Amount
Peters and Yaffee	Prime Consultant	\$33,211.09
ETM Surveying & Mapping, Inc.	Subconsultant	\$14,608.00
TOTAL		\$47,819.09

D. COUNTY RESPONSIBILITIES

1. Documents – The County shall provide access to any available plans, maps, survey data and other pertinent information under its control essential to the satisfactory completion of the work indicated herein.

2. **Reviews** – The County will provide timely reviews of the Consultant's work in accordance with the schedule agreed upon between the County and the Consultant. Each review period by the county shall be two weeks, at which time all comments will be forwarded to the Consultant.

E. ASSUMPTIONS

1. This effort does not include delineation of wetland areas, identification of threatened or endangered species or any other environmental services.
2. This effort does not include survey of existing utilities or the collection of SUE designation information on existing utilities.
3. This effort does not include generation of cost estimates.



**ESTIMATE OF WORK EFFORT AND FEE
Chester Road Drainage Study - Nassau County**

No. / ACTIVITY	Project Principal Rate = \$ 214.29		Project Manager Rate = \$ 162.89		Project Engineer Rate = \$ 113.27		CADD Designer Rate = \$ 69.91		Project Totals		
	Man Hours	Labor Cost	Man Hours	Labor Cost	Man Hours	Labor Cost	Man Hours	Labor Cost	Hours	Costs	
TASK 1 - DATA COLLECTION											
1a	Obtain and Review SJRWMD Existing Permit Information	\$ -	2	\$ 365.78	10	\$ 1,132.70			12	\$ 1,498.48	
1b	Obtain and Review Existing Contour Information	\$ -	4	\$ 731.56	8	\$ 906.16			12	\$ 1,637.72	
1c	Field Review (1)	\$ -	8	\$ 1,463.12	8	\$ 906.16			16	\$ 2,369.28	
1d	Survey Services (Limiting Amount)									\$ 14,608.00	
	Subtotal	0	\$ -	14	\$ 2,560.46	26	\$ 2,945.02	0	\$ -	40	\$ 20,113.48
TASK 2 - HYDROLOGIC/HYDRAULIC MODEL											
2a	Develop Exist. Conditions ICPR Model	\$ -	8	\$ 1,463.12	55	\$ 6,229.85			63	\$ 7,692.97	
2b	Develop Prop. Conditions ICPR Model (from Exist. Conditions ICPR Model)	\$ -	8	\$ 1,463.12	30	\$ 3,399.10			38	\$ 4,861.22	
	Subtotal	0	\$ -	16	\$ 2,926.24	85	\$ 9,627.95	0	\$ -	101	\$ 12,554.19
TASK 3 - DRAINAGE REPORT											
3	Drainage Report Preparation	\$ -	6	\$ 1,097.34	24	\$ 2,718.48	24	\$ 1,677.84	54	\$ 5,493.66	
	Subtotal	0	\$ -	6	\$ 1,097.34	24	\$ 2,718.48	24	\$ 1,677.84	54	\$ 5,493.66
TASK 4 - MEETINGS											
4a	Notice to Proceed Meeting (1)		2	\$ 365.78	2	\$ 226.54			4	\$ 592.32	
4b	Project Status Meetings (2)		4	\$ 731.56	4	\$ 453.08			8	\$ 1,184.64	
	Subtotal	0	\$ -	6	\$ 1,097.34	6	\$ 679.62	0	\$ -	12	\$ 1,776.96
TASK 5 - PROJECT GENERAL TASKS											
5a	Quality Assurance/Quality Control	\$ 957.16	4	\$ 1,828.90		\$ -			14	\$ 2,886.06	
5b	Supervision	\$ 1,285.74	6	\$ 2,194.68		\$ -			18	\$ 3,480.42	
5c	Coordination	\$ 1,714.32	8	\$ -		\$ -			8	\$ 1,714.32	
	Subtotal	\$ 3,957.22	18	\$ 4,023.58	22	\$ -	0	\$ -	40	\$ 7,880.80	
	Grand Total	\$ 3,857.22	64	\$ 11,704.96	141	\$ 15,971.07	24	\$ 1,677.84	247	\$ 47,819.09	

