SUBJECT: **RFQ FOR DESIGN-BUILD SVCS FOR HORIZONTAL/CIVIL ENGINEERING PROJECTS**

BID # **CDB-0006-16** OPEN DATE: **10/21/2015**

COMPETITIVE SEALED PROPOSAL EVALUATION COMMITTEE

KIND AND BASIS OF CONTRACT:
CONSTRUCTION – DESIGN/BUILD

AGENCY: **DEPARTMENT OF PUBLIC WORKS**

BASIS OF AWARD: **QUALIFICATIONS BASED**

NUMBER OF BIDS INVITED: - NUMBER RECEIVED: - OTHER: -

SUMMARY OF BIDS AND RECOMMENDED ACTIONS:

The Department of Public Works has completed negotiations with J.B. Coxwell Contracting, Inc., for the Ocean Street Drainage Improvements project in accordance with subject bid.

Recommend approval of award to J. B. Coxwell Contracting, Inc., in the guaranteed maximum price not-to-exceed $337,578.18, which includes a contingency of $30,000.00. The scope of award is to provide 100% design, permitting and construction related services for Ocean Street Drainage Improvements. This incorporates the attached, scope and fee summary, Exhibit "Y-1", with guaranteed completion of 200 days from issuance of notice-to-proceed.

Funding for this award is to be executed by Amendment 23A for contract # 6533-54 and encumbered by account: PWCP331SD541-06505-PW0718-01-PWC023-18- $148,000.00; DICP363-06505-PW0718-01- $40,796.93; DICP322-06505-PW0718-01- $145,116.97; PWEN462SW-06505-PW0072-01- $3,664.28

Attachments: Recommendation Memo, Exhibit "Y-1", Previous Award(s)

BUYER _____ RESPECTFULLY SUBMITTED _____
MARILYN LAIDLER GREGORY PEASE, CHIEF
PROCUREMENT DIVISION

CONCURRENCE BY: **Ed Starnes, P.E., J.D., Acting Chief, Engineering and Construction Management**

(ALL AWARD ACTIONS SUBJECT TO LAWFULLY APPROPRIATED FUNDS)
ACTION OF CSPEC COMMITTEE ON RECOMMENDATIONS ABOVE

MEMBERS APPROVING_____ MEMBERS DISAPPROVING_____ DATE:_____

_____ _____ OTHER_____

_____ _____

_____ _____

_____ _____

_____ _____

ACTION OF AWARDING AUTHORITY DATE _____

APPROVED_____ DISAPPROVED: _____

OTHER: _____

SIGNATURE OF AUTHENTICATION _____

City of Jacksonville, Florida

Lenny Curry, Mayor

Department of Public Works
Engineering & Construction Management Division
214 N. Hogan Street, 10th Floor
Jacksonville, FL 32202
(904) 255-8762
www.coj.net

ONE CITY. ONE JACKSONVILLE

December 12, 2018

TO: Gregory W. Pease
Chief of Procurement

THRU: John P. Pappas, P.E.
Director

FROM: Ed Starnes, P.E., J.D.
Acting Chief, Engineering & Construction Management

SUBJECT: CDB-0006-16 – Design-Build Services - Horizontal & Civil Engineering – Ocean Street Drainage Improvements AMENDMENT 23A

Based on the Design Criteria Package developed by City Engineers, the Department of Public Works, in accordance with Design/Build CDB-0006-16, Contract 6533-54 has completed negotiations with J. B. Coxwell Contracting, Inc., to provide 100% design, permitting and construction related services for Ocean Street Drainage Improvements. Negotiations have resulted in the attached Scope and Fee, Exhibit Y-1 for the GMP amount of $337,578.18, which includes a contingency of $30,000.00 for this work and allows for 200 days from the notice to proceed.

Accordingly, this is to recommend that Contract No. 6533-54, originally executed May 2, 2016, between the City and J. B. Coxwell Contracting, Inc. for Design-Build Services- Horizontal & Civil Engineering, be amended to incorporate the attached Scope and Fee Summary, Exhibit Y-1 for Ocean Street Drainage Improvements for the GMP amount of $337,578.18, known as Amendment 23A.

To be encumbered as follows:

PWCP331SD541-06505-PW0718-01-PWC023-18	$148,000.00
DICP363-06505-PW0718-01	$40,796.93
DICP322-06505-PW0718-01	$145,116.97
PWEN462SW-06505-PW0072-01	$3,664.28
TOTAL	$337,578.18

ES/lw

Attachment: Exhibit Y-1

EXHIBIT Y-1

J.B. Coxwell Contracting, Inc.
6741 Lloyd Road West
Jacksonville, Florida 32254
Office (904) 786-1120 Fax (904) 783-2970

November 22, 2017

Rev. 2, December 6, 2018

Duane Kent, P.E.
City of Jacksonville Department of Public Works
Engineering & Construction Management Division
214 N. Hogan Street, 10th Floor
Jacksonville, Florida 32202

Re: Scope of Services and Fee Proposal for
Ocean Street Drainage Improvements
100% Design, Permitting and Construction Services
Design-Build Construction Delivery for City of Jacksonville-RFQ CDB-0006-16
City Contract No. 6533-54

Dear Mr. Fallin:

J.B. Coxwell Contracting, Inc. (JBCCI) is pleased to submit for your review and consideration the following design-build scope of services and attached lump sum fee proposal for 100% design, permitting, and construction of the above referenced project. The scope of work for 100% design, permitting, and construction services are as outlined on the attached proposals.

As detailed on the attached documentation, the proposed total lump sum amount for 100% design, permitting and construction of this project is $337,578.18 which includes a project contingency of $30,000.00. The project contingency is for project elements which have not been fully designed and permitted, and which may increase in quantity or cost during the final design phase or during construction. The project contingency is for the Design-Builder's benefit and not for changed field conditions, unknown field conditions or added scope of work. The design, permitting, and construction will be completed within two hundred days (200) from notice-to-proceed.

This lump sum proposal is inclusive of only those services noted on the attached proposals and which are anticipated at this time. No services or work other than those noted in the proposals are included. In addition, any unknown condition(s) which may surface during design and construction or any other increase in scope of services may result in a request for additional services. No work will proceed however, without first obtaining approval from the City for any additional services.

We are again very appreciative of the opportunity to provide you with our design-build services. Should you have any questions or need any further information, please do not hesitate to contact us. We are also available to review and discuss this proposal with you and/or others at your convenience.

Regards,

J.B. Coxwell Contracting, Inc.

Jayson Smith

Jayson Smith,
Design Build Manager

Cc: Nicholas E. Mousa, AICP, Director -Florida Market Initiatives
GAI Consultants, Inc.

Building Efficiency Together

FEE SUMMARY

J.B. Coxwell Contracting, Inc.
6741 Lloyd Road West
Jacksonville, Florida 32254
Ph. (904) 786-1120
Contact: Jayson Smith, Design Build Manager
JaysonS@JBCoxwell.com

11-22-17
Revision 2, 12-6-18

QUOTE City of Jacksonville
TO Department of Public Works

JOB	LOCATION	START DATE
Ocean Street Drainage Improvements (Bay to Forsyth)	Jacksonville, Florida	January 2019

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	EXT PRICE
1	GAI 100% Design & Post-Design Fees	1	LS	$68,108.53	$68,108.53
3	Misc. Permit Fees	1	LS	$1,500.00	$1,500.00
5	General Conditions	1	LS	$33,405.00	$33,405.00
7	Geotech Testing Allowance for Construction	1	LS	$10,000.00	$10,000.00
10	Maintenance of Traffic	1	LS	$16,830.00	$16,830.00
20	Erosion Control	1	LS	$3,400.00	$3,400.00
30	Site Preparation & Demolition Required for New Construction	1	LS	$17,200.00	$17,200.00
40	Bypass Pumping & Dewatering for Drainage Construction	1	LS	$20,060.00	$20,060.00
50	Tie-Into Existing Drainage MH @ Bay Street (Tie in @ 15", replace w/ 24" Diameter)	1	EA	$4,675.00	$4,675.00
60	Install New 24" Drainage Pipe (CL III RCP)	130	LF	$ 148.20	$19,266.00
70	Install 4' Dia. Storm Manhole (4-6' Deep)	1	EA	$4,500.00	$4,500.00
80	Install Curb Inlet (4-6' Deep) (P-6 Top)	2	EA	$8,690.00	$17,380.00
90	Install Flowable Fill w/ Temporary Road Plates	160	CY	$ 195.00	$31,200.00
100	Restore Roadway Subgrade & Base in Patch Area	220	SY	$ 64.75	$14,245.00
120	Replace Curb & Gutter	60	LF	$ 56.20	$3,372.00
125	Replace Sidewalk (Plain)	55	SY	$ 60.30	$3,316.50
130	Replace Asphalt Pavement (2" Thickness)	220	SY	$ 31.50	$6,930.00
140	Replace Striping (Painted Markings)	1	LS	$1,050.00	$1,050.00
200	Misc. Final Clean-Up	1	LS	$3,178.50	$3,178.50
300	Design Build Fee	1	LS	10%	$27,961.65
400	Project Contingency	1	LS	$30,000.00	$30,000.00
				TOTAL:	**$337,578.18**

Clarifications/ Exclusions;

- Estimate is based on GAI's proposal dated 11-21-17, revised fee 12-5-18, & Connelly & Wicker's preliminary drainage study dated 8-20-17. All notes, exclusions, and clarifications contained in the GAI proposal & C&W study apply to the JBCCI proposal.
- Existing private and public utility locates, identification, protection, isolation, and relocation by others (including but not limited to electric, water, sewer, cable, telephone, misc. communications, traffic signal, street lighting, gas, fiber optic cables, etc.)
- Contingency fee included for construction and design aspects not known at the time of the proposal preparation
- This estimate excludes unknown subsurface debris removal/ disposal
- This estimate excludes unsuitable soil removal/ replacement, as we do not anticipate this scope to be required on the project
- This estimate excludes any work associated with the discovery or handling of hazardous or non-hazardous waste that may be encountered while constructing the drainage improvements on this project
- All public notices and informational meetings to be handled by the COJ
- JBCCI provides this pricing with the assumption that all work will be authorized and performed with one mobilization
- This proposal pricing is valid for 30 days from date of revision
- Asphalt, curb, and sidewalk removal/replacement is included for the specific areas impacted for the new construction Only. There are no allowances included for asphalt milling/ resurfacing or other hardscape repairs within the project area.

EXHIBIT Y-1

gai consultants
transforming ideas into reality.

November 21, 2017

Jayson Smith
Design-Build Manager
J.B. Coxwell Contracting, Inc.
6741 Lloyd Road West
Jacksonville, Florida 32254

Re: Fee Proposal for 100% Design, Permitting, and Post-Design Services for Ocean Street Drainage Improvements Design-Build Construction Delivery for the City of Jacksonville RFQ CDB-0006-16/City Contract No. 6533-54

Dear Mr. Smith:

In accordance with the terms and conditions of our master agreement for professional services dated 06-07-16, **GAI Consultants, Inc., (GAI)**, is providing you with this proposal for the above referenced project.

Project Understanding and Scope of Services

Localized flooding has been experienced along Ocean Street in Downtown Jacksonville. The City of Jacksonville (City) retained Connolly & Wicker to perform a preliminary drainage study of the project area ("the C&W Study"). As part of the C&W Study, stormwater infrastructure improvements have been recommended. Under this proposal, GAI will be providing for the 100% design, permitting and post-design services for the construction of these improvements recommended in the C&W Study.

All design scope, fees, and assumptions are based on the C&W Study, which is attached hereto. Based on the above, GAI's scope of services include the following:

1. Develop design documents for this project so that they are suitable for construction by J.B. Coxwell Contracting, Inc. and for any necessary permitting.
2. Attend design review meetings with you and/or the City at the 60% Design stage.
3. Obtain the necessary St. Johns River Water Management District and Florida Department of Transportation Permits (Drainage Permit).
4. Per the City, no 10-set permitting is required nor included.
5. Coordinate the project's Maintenance of Traffic (MOT) Plan with the City's Traffic Engineer and FDOT. (Note: this will consist of developing and submitting an MOT plan to the City's Traffic Engineer and/or FDOT and responding to any comments, questions, or concerns that he may have.)
6. Submit utility coordination letters to various utility companies. It is assumed that utility relocation plans will be developed by the utility companies.
7. Provide for the necessary post-design services in order to certify the project as may be applicable. Assumes up to four (4) site visits, addressing Requests for Additional information, and providing for Shop Drawing Review.
8. It is assumed that the City will provide GAI with electronic (CAD) versions of all C&W design documents, surveys, etc. completed to date.

Finally, GAI's scope of work will entail managing the project during the 100% design phase, attending project design review meetings, providing quality assurance and quality control during and at the completion of the 100% design phase, documenting meeting results and directives as issued by the City, schedule evaluations, and budgetary controls.

Items <u>not</u> included in this scope of services:

1. Utility relocation design.
2. Landscape/hardscape/irrigation design.

gai consultants
transforming ideas into reality.

3. Design of temporary relocated parking for on-street parking spaces that may be impacted during construction.
4. Lighting Design.
5. Tree Mitigation Calculations and Permitting (None Anticipated.)
6. Construction Inspection.
7. Any other design services not specifically itemized herein.

Finally, we have included an allowance for any necessary survey, geotechnical, utility locate and/or any other design services that may be required, but were not contemplated as part of the development of this scope and fee proposal.

If you have any questions, please do not hesitate to give us a call.

Regards,

GAI CONSULTANTS, INC.

Kevin R. Leadbetter, P.E.
Vice President

Attachments: GAI Fee Summary
The C&W Preliminary Drainage Study

Exhibit A - Page 1 of 1
CONTRACT FEE SUMMARY FOR
Ocean Street Drainage Improvements

PART I - GENERAL	
1. Project - D/B Construction Delivery for COJ Ocean Street Drainage Improvements (Revised)	**2. Project Number** CDB-0006-16
3. Name of Consultant GAI Consultants, Inc.	**4. Date of Proposal** 12/6/2018

PART II - LABOR RELATED COSTS

5. DIRECT LABOR	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal	$ 104.30	8	$ 834.40	
Project Manager (Responsible Prof.)	$ 84.59	24	$ 2,030.16	
Senior Project Engineer	$ 64.49	30	$ 1,934.70	
Project Engineer	$ 49.14	50	$ 2,457.00	
Engineer Intern	$ 34.38	60	$ 2,062.80	
Senior Designer	$ 37.95	0	$ 0.00	
Designer/Sr. CADD Technician	$ 28.43	0	$ 0.00	
CADD Technician	$ 25.14	60	$ 1,508.40	
Clerical	$ 19.91	4	$ 79.64	
Survey Manager (PSM)	$ 58.62	6	$ 351.72	
Three Man Survey Crew	$ 79.04	16	$ 1,264.64	
			TOTAL DIRECT LABOR	**$ 12,523.46**
6. OVERHEAD (Combined Fringe Benefits & Administrative) Overhead Rate 173.68%				$ 21,750.75
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				**$ 34,274.21**
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$ 3,427.42
			SUB-TOTAL SALARY RELATED COSTS	**$ 37,701.63**

PART III - OTHER COSTS

9. MISCELLANEOUS DIRECT COSTS Misc. Direct Expenses (Lump Sum)	$ 150.00
MISCELLANEOUS DIRECT COSTS SUB-TOTAL	**$ 150.00**
10. SUBCONTRACTS (Lump Sum) FR Aleman	$ 30,250.00
SUB-CONTRACT SUB-TOTAL	**$ 30,250.00**

PART IV - SUMMARY

TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)	**$ 68,101.63**

EXHIBIT Y-1

F.R. ALEMAN
& Associates, Inc.
6196 Lake Gray Blvd., Ste. 101, Jacksonville, Florida 32073
Tel: (904) 779-5972 | Fax: (904) 779-5974

CONSULTING ENGINEERS & SURVEYORS
www.fr-aleman.com
FRAjax@fr-aleman.com

December 3, 2018

GAI Consultants
ATTN: Robert E. Baxter, PE
Senior Engineering Manager
1301 Riverplace Blvd, Suite 900
Jacksonville, FL 32207
r.baxter@gaiconsultants.com

RE: **Ocean Street from Bay Street to Adams Street**

SUBJECT: Price Proposal for Subsurface Utility Locating Services

Dear Mr. Baxter,

Per your request, F.R. Aleman & Associates, Inc. (FRA) is pleased to submit our proposal to provide subsurface utility locating services to your organization as follows:

4 Days of Designating Services @ $1880 per day	=	$ 7,520.00
30 Utility Test Holes @ $375 per hole	=	$ 11,250.00
6 Days Density Test @ $480 per day	=	$ 2,880.00
Asphalt Restoration @$40 per hole (30 Utility Test Holes)	=	$ 1,200.00
FDOT Permitting	=	$ 320.00
2 Days of Advanced MOT @ $1200 per day	=	$ 2,400.00
4 Days of Standard MOT @ $500 per day	=	$ 2,000.00
10 Hs Project Management @ $80 per hour	=	$ 800.00
1 Day of for Locating Services (contingency) @ 1880 per day	=	$ 1,880.00
Total	=	**$ 30,250.00**

Note: A FDOT permit will be needed for this project to proceed with the test holes. Once the permit is approved, FDOT will establish the requirements for this project. If the requirements include to work at night and/or special filling, this estimate needs revision.

DESCRIPTION OF SERVICES

GENERAL NOTES

FRA will provide subsurface utilities engineering (SUE) personnel, tools and specialized equipment to locate apparent underground public utilities. FRA is aware that utility test holes are being requested on an as needed basis, and exact locations have not yet been established. Utility Test Holes shall be performed per ASCE/CI 38-02 (Quality Level A)

Standards. This proposal is based on public agencies allowing standard Maintenance of Traffic (MOT) (limited to Index 613) and typical daylight operations (8:00 AM – 5:00 PM). No permitting is included in this proposal, unless otherwise specified. Should permitting and/or additional MOT be required, this proposal may need revision. Restoration shall be limited to standard SUE practices. Should additional restoration become necessary, this proposal may need revision. FRA will not be providing survey for this project; the project surveyor will be responsible to record our field markings for entry into project database.

DESIGNATING

This service will include but not be limited to the following:

- Electromagnetic (EM) induction is a method in which a transmitter signal is applied by directly coupling to a target. So long as the target is metallic, a receiver is used to detect the transmitted signal. Passive detection is another technique used to locate naturally occurring magnetic fields that exist on power cables generating a 50/60 Hz signal. Some utility systems contain portions of non-metallic material, and, therefore, may be unlocatable using EM techniques.
- Ground penetrating radar (GPR) can assist in identifying non-metallic utilities and other structures which are unidentifiable using traditional EM techniques. The GPR method transmits EM waves which are pulsed at discrete distance and time intervals. The transmitted pulse radiates through the earth until a portion of energy is reflected from interfaces of contrasting electrical properties (e.g., pavement and soil interface, soil changes, and buried metallic objects), while the remaining energy continues until reaching additional reflectors, repeating the process. Reflected energy is received by the antenna for interpretation by the operator. Factors such as soil moisture, clay content, and variations in the dielectric constants of materials control the effectiveness of the GPR method. Wet, conductive soils severely attenuated GPR signals and thus affect the depth of exploration. GPR energy cannot transmit through ferrous objects since metal acts as a pure reflector. To accurately conduct a radar survey, several scans must be made across the target area. Confined or obstructed areas that restrict the scanning pattern an impeded the data collected and reduce the accuracy of the desired results.

UTILITY TEST HOLES

This service will include but not be limited to the following:

- Working in existing streets, roads, rights of way, etc., for excavating, measuring and recording the location, depth and condition of known underground utilities along project route.
- Excavation of test holes in such a manner as to prevent any damage to wrappings, coatings or other protective coverings (by use of vacuum/pressure excavations, hand digging, etc.).
- Furnishing and installation of color-coded, above ground, markers at grade level (e.g., PK nails, wooden hubs, and steel rods) directly above the centerline of the utility structure and recording the utility cover on the marker.
- Utility test holes shall not to exceed 225 sq. in. per cut.
- Cleanup of work sites to equal or better condition than before excavation.
- Backfill material shall be same or like material removed from test hole. No special backfill material is included in proposal.

CONDITIONS & EXCLUSIONS

Locating of underground utilities for pre-excavation:

- Utilities shall be marked per F.S. 556, prior to FRA field crew's work is to be performed. Following FRA work and prior to excavation, the contractor is responsible for securing locations of utilities through Sunshine One Call (800-432-4770) or 811.
- Utility locations are being provided to prevent or reduce the likelihood of utility conflicts and/or damage during excavation.
- Results are dependent upon field conditions at the time of locating services.
- FRA's proposed services do not include any support during construction phase. FRA would be please to provide similar services during construction phase (scope and fee to be determined).

FRA will use its best efforts to locate utilities but cannot guarantee all underground public can be located. We have estimated approximately **4 Days of Designating Services, 30 Utility Test Holes and 1 Day of contingency for Location Services** for apparent underground public utilities. Should significantly more utilities be found, or if utilities cannot be located, more test holes may be required. If needed, any additional test holes will be at the same rate as above and only done at your direction.

FRA appreciates the opportunity to submit this proposal and looks forward to our association on this project. This proposal is valid for acceptance through **30 DAYS FROM QUOTE** after which it shall be subject to reconfirmation by FRA. If this proposal is accepted prior to the above date, this pricing will be in effect through **60 DAYS FROM QUOTE** after which time it shall be subject to review and adjustment by FRA.

If you find this proposal acceptable, please sign the agreement in the spaces provided below and return the executed copy for our files, which will serve as your formal authorization for our services. We are prepared to commence work upon your authorization. Please do not hesitate to contact me if you have a question.

Sincerely,

Lis R. Tolstoy, PSM
Florida Regional Survey/SUE Director
FRAJax@fr-aleman.com

ACCEPTED AND AGREED:	
Client:	GAI Consultants
Approved By:	
Title:	
Date:	
Client Project Number:	

EXHIBIT Y-1

OCEAN STREET (US 1)
PRELIMINARY DRAINAGE STUDY
from Bay Street to Adams Street

Prepared by:

Connelly & Wicker Inc.

10060 Skinner Lake Drive, Suite 500
Jacksonville, Florida 32246

August, 2017

TABLE OF CONTENTS

DESCRIPTION OF STUDY

SUMMARY OF PROBLEMS

DRAINAGE AREA - Ocean Street

NEWNAN STREET DRAINAGE SYSTEM

OCEAN STREET DRAINAGE SYSTEM
- Bypass
- Total Discharge Calculation

RECOMMENDATIONS

APPENDICES

FDOT Storm drain Handbook
- Design Storm
- Time of Concentration
- FDOT IDF Curve – Area 4

DESCRIPTION OF STUDY

This preliminary study was requested by the City of Jacksonville to determine the cause(s) of flooding along Ocean Street (US 1) between Bay Street and Forsyth Street in the City of Jacksonville. This study is based upon information provided by various sources. It is intended to identify areas where final design should focus on solutions to capture stormwater within the conveyance system along Ocean Street. It is expected that additional survey which will include underground utilities will be required to complete the design of the improvements.

SUMMARY OF THE PROBLEMS

There is a combination of problems that cause Ocean Street between Bay Street and Forsyth Street to experience flooding. These problems include:

1. Stormwater bypass caused by inadequate pipe size along Adams Street in the Newnan Street storm sewer system. The inadequate pipe size increases the flow into the Ocean Street storm sewer system

2. Stormwater bypass due to roadway slope and the lack of inlets along Ocean Street north of Forsyth Street.

3. The lack of inlets along the east side of Ocean Street between Bay Street and Forsyth Street creates a spread and inlet capacity issue.

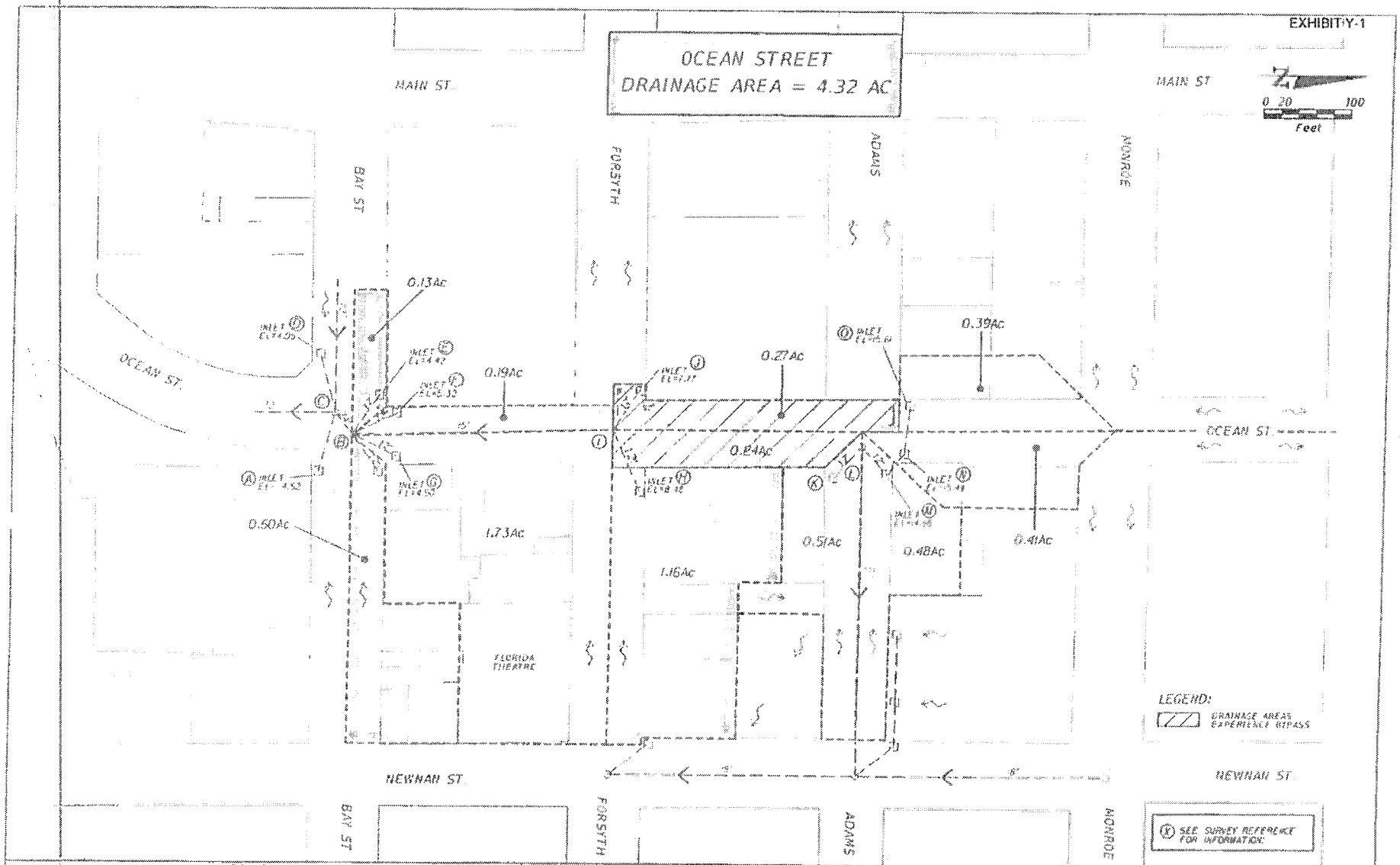
4. Inadequate pipe size of the storm sewer pipe along Ocean Street between Bay Street and Forsyth Street

DRAINAGE AREA – Ocean Street storm sewer system

The drainage area along Ocean Street is 4.3 acres of urban land. Ocean Street inlets are located at the intersections of Bay Street and Forsyth Street. The Ocean Street storm sewer system ultimately connects to the 72" pipe outfall pipe with a 24" pipe.

(See attached map)

EXHIBIT Y-1



REVISIONS			
SEQ	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.

CITY OF JACKSONVILLE
DEPARTMENT OF PUBLIC WORKS

EXISTING DRAINAGE MAP

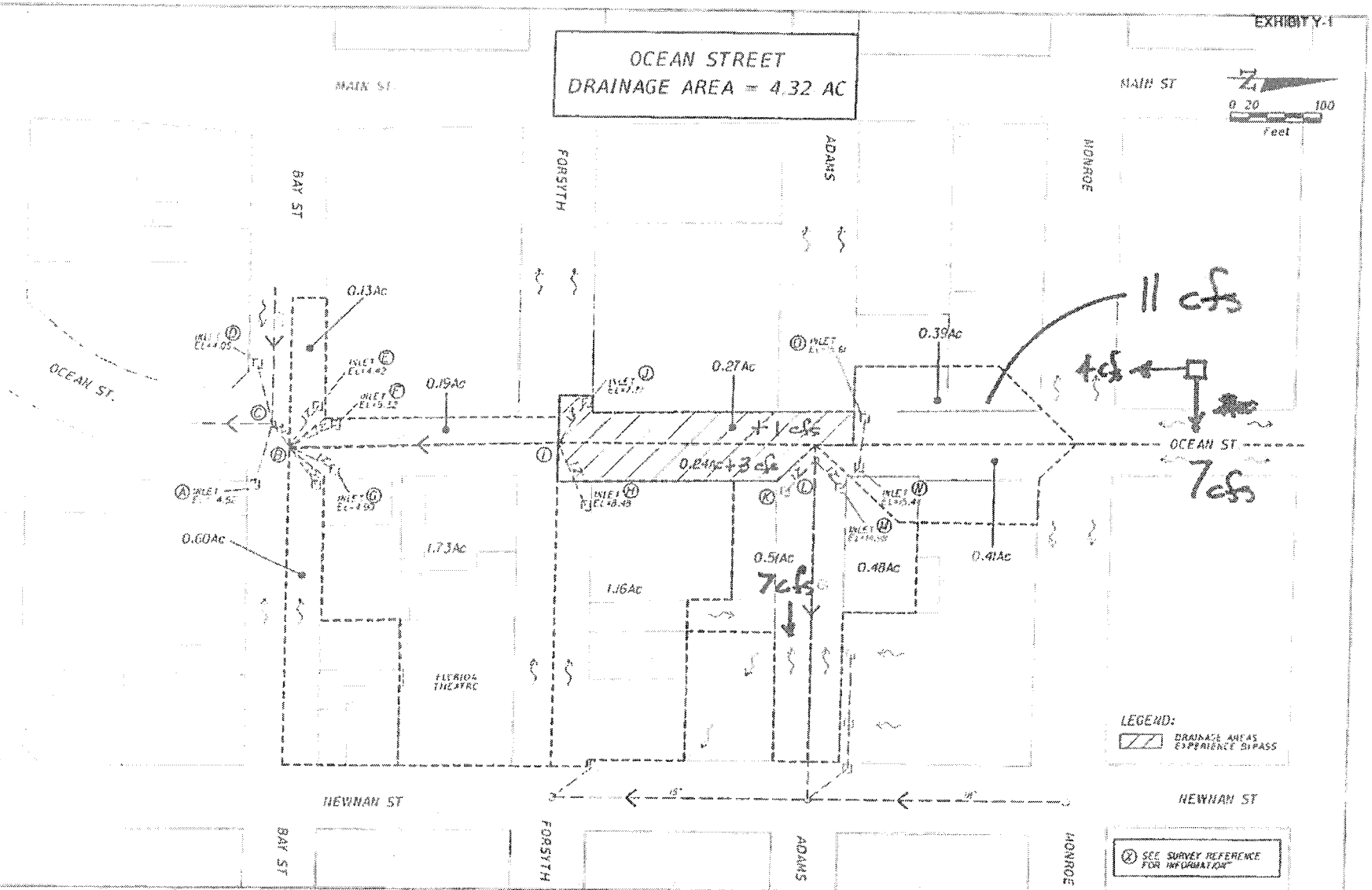
SHEET NO.

NEWMAN STREET DRAINAGE SYSTEM – Bypass caused by hydraulic grade line (pipe capacity)

The Newnan Street storm sewer system begins at the intersection of Ocean Street and Adams Street. The inlets (4) at this intersection have a drainage area of 1.8 acres which drains to a 15" pipe. A 15" pipe constructed at a 1% slope has the capacity to convey 7 cfs. The 3-year FDOT flow to the Ocean Street / Adams Street intersection is 11 cfs. Assuming the 15" pipe has a slope of 1%, the undersized pipe along Adams Street causes 4 cfs (3 cfs on the eastside of Ocean Street and 1 cfs on the west side of Ocean Street) to bypass the Newnan Street storm sewer system and flow into the Ocean Street drainage area.

(see attached map)

EXHIBIT Y-1



DATE	REVISIONS	DATE	REVISIONS

Connelly & Wicker Inc.

CITY OF JACKSONVILLE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

EXISTING DRAINAGE MAP

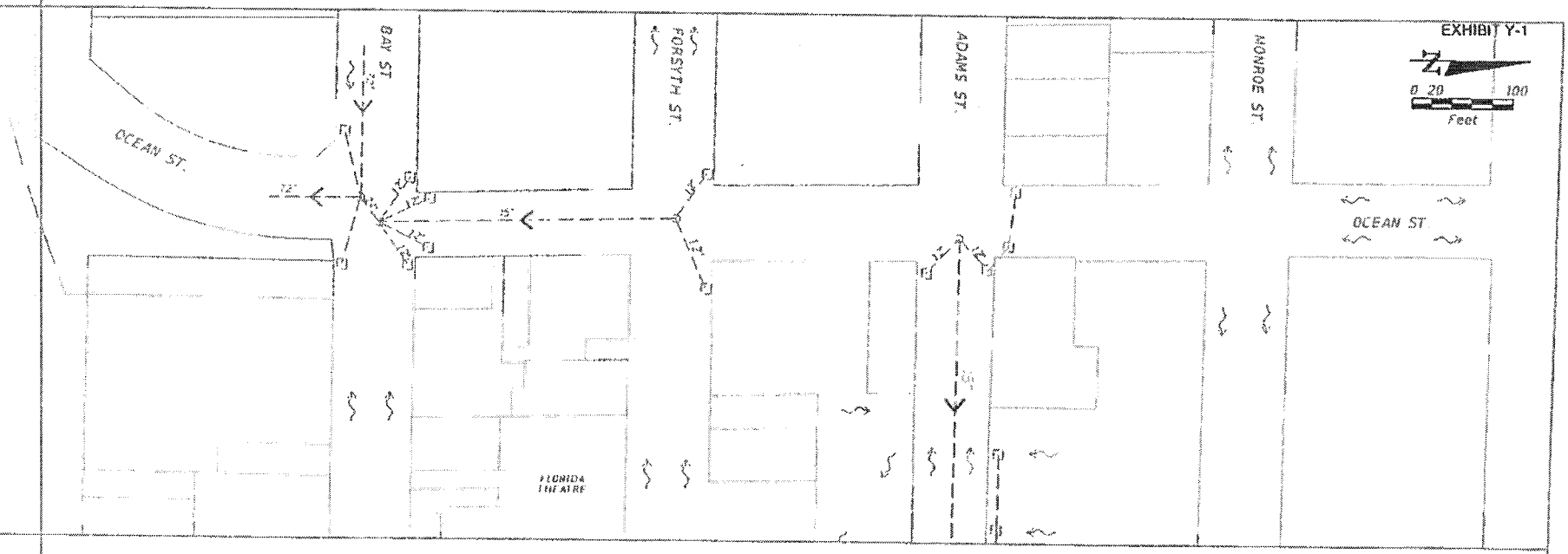
SHEET NO.

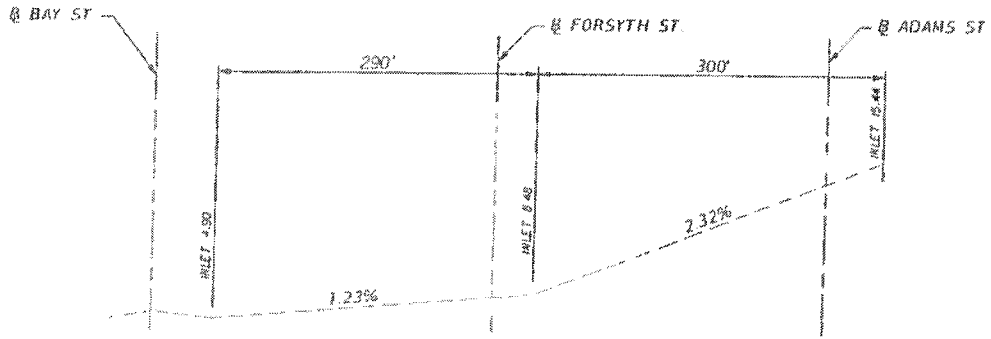
OCEAN STREET DRAINAGE SYSTEM– Bypass at Forsyth Street intersection

There are no inlets along Ocean Street north of Forsyth Street. Ocean Street north of Forsyth Street has a roadway slope of 2.3%. The roadway slope and the lack of inlets on Ocean Street cause a significant portion of this drainage area (0.24 ac on eastside and 0.27 ac on westside) to bypass the inlets and flow across Forsyth Street. It is assumed that 80% of the stormwater along Ocean Street between Forsyth Street and Adams Street crosses Forsyth Street and does not enter the storm sewer pipe system.

(see attached map)

EXHIBIT Y-1





PROFILE

(X) SEE SURVEY REFERENCE FOR INFORMATION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Canbelly & Wicker Inc.

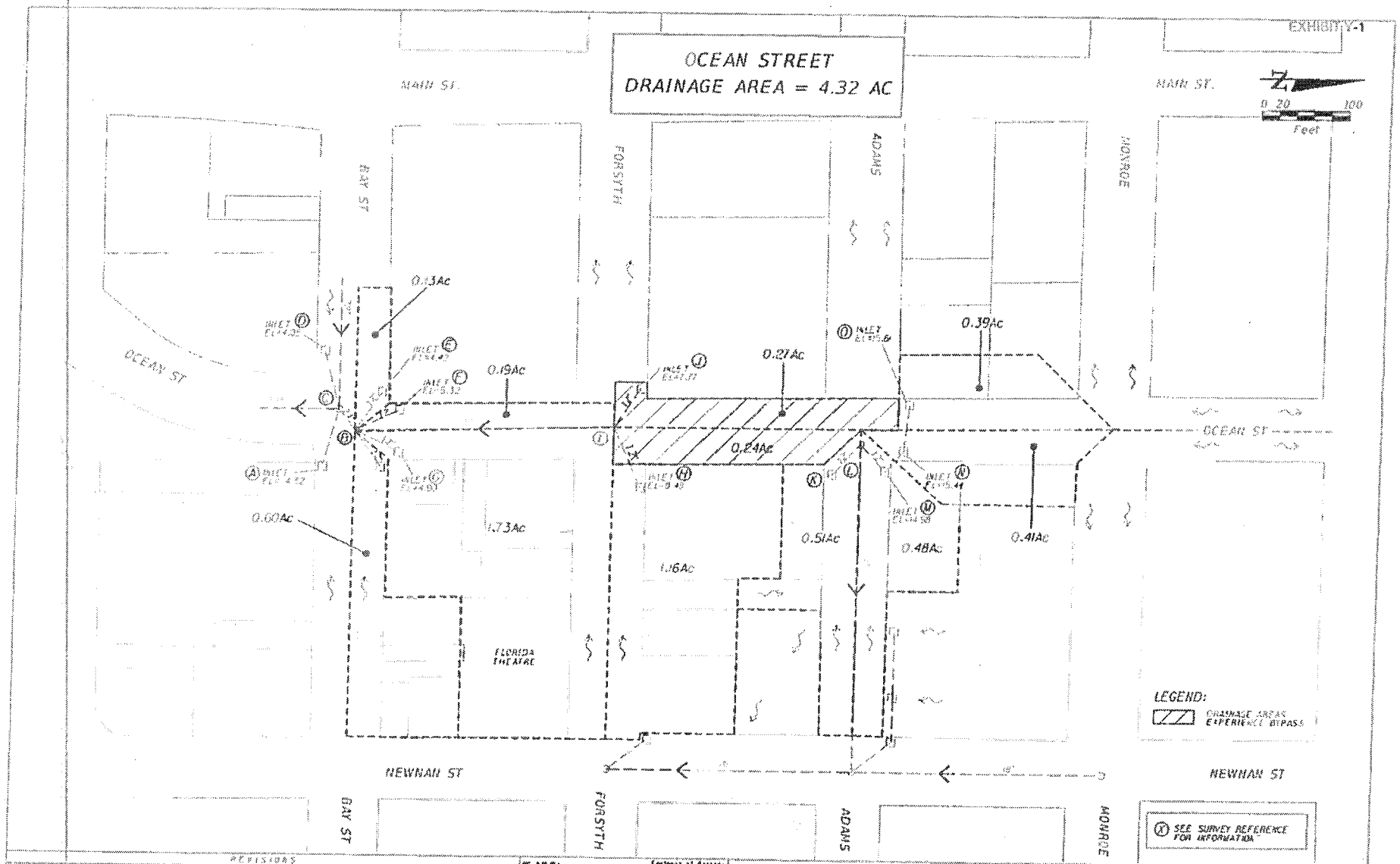
CITY OF JACKSONVILLE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

OCEAN STREET PROFILE

SHEET NO.

EXHIBIT 1

OCEAN STREET
DRAINAGE AREA = 4.32 AC



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connolly & Wicker Inc.

CITY OF JACKSONVILLE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

EXISTING DRAINAGE MAP

SHEET NO.

OCEAN STREET DRAINAGE SYSTEM– Total flow to inlets at Bay Street

The TOTAL Q at the inlets in the northwest (F) and northeast (G) quadrants of the Ocean Street and Bay Street intersection is a combination of the drainage area and the bypass to the drainage area. The following table summarizes the Total Q calculation.

Ocean Street at Bay Street inlet	DA (acres)	Q (cfs)	Q bypass (cfs)	Q Total (cfs)
Northwest corner (F)	0.19	1.1	2.1	3.2
Northeast corner (G)	1.73	10.2	3.5	13.7

The inlet in the northeast corner of the intersection of Ocean Street at Bay Street is significantly over capacity. It is desirable to limit flow in the gutter to 3 cfs to minimize gutter spread.

The Ocean Street 15" stormwater pipe is undersized for the amount of discharge it receives.

EXHIBIT Y-1

DETERMINE FLOW TO INLETS AT OCEAN & BAY STREETS

INLET		Bay to Forsyth			BYPASS CALCULATION						TOTAL DISCHARGE	Ocean Street
					Forsyth to Adams		from Newnan Street		Assumed			
		DA	Q		DA	Q	Q newnan	Q + bypass	bypass	Q bypass	Q	Q in storm sewer
		(acres)	(cfs)		(acres)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
	Ocean @ Bay											
F	NW corner	0.19	1.1		0.27	1.6	1.0	2.6	80%	2.1	3.2	0.5
G	NE corner	1.73	10.2		0.24	1.4	3.0	4.4	80%	3.5	13.7	0.9
	Ocean & Forsyth											
H	NE corner				1.16	6.8						6.8
												8.2

RECOMMENDATIONS

It is recommended to add inlets along Ocean Street so inlet capacity is not exceeded and the spread in the gutter does not encroach upon the sidewalk.

A significant amount of Ocean Street stormwater does not enter the storm sewer system until it reaches the Bay Street intersection. If additional inlets are added to the system, the 15" pipe in Ocean Street should be increased to 24". A 24" pipe can convey 25 cfs at a 1% slope.

(see attached map)

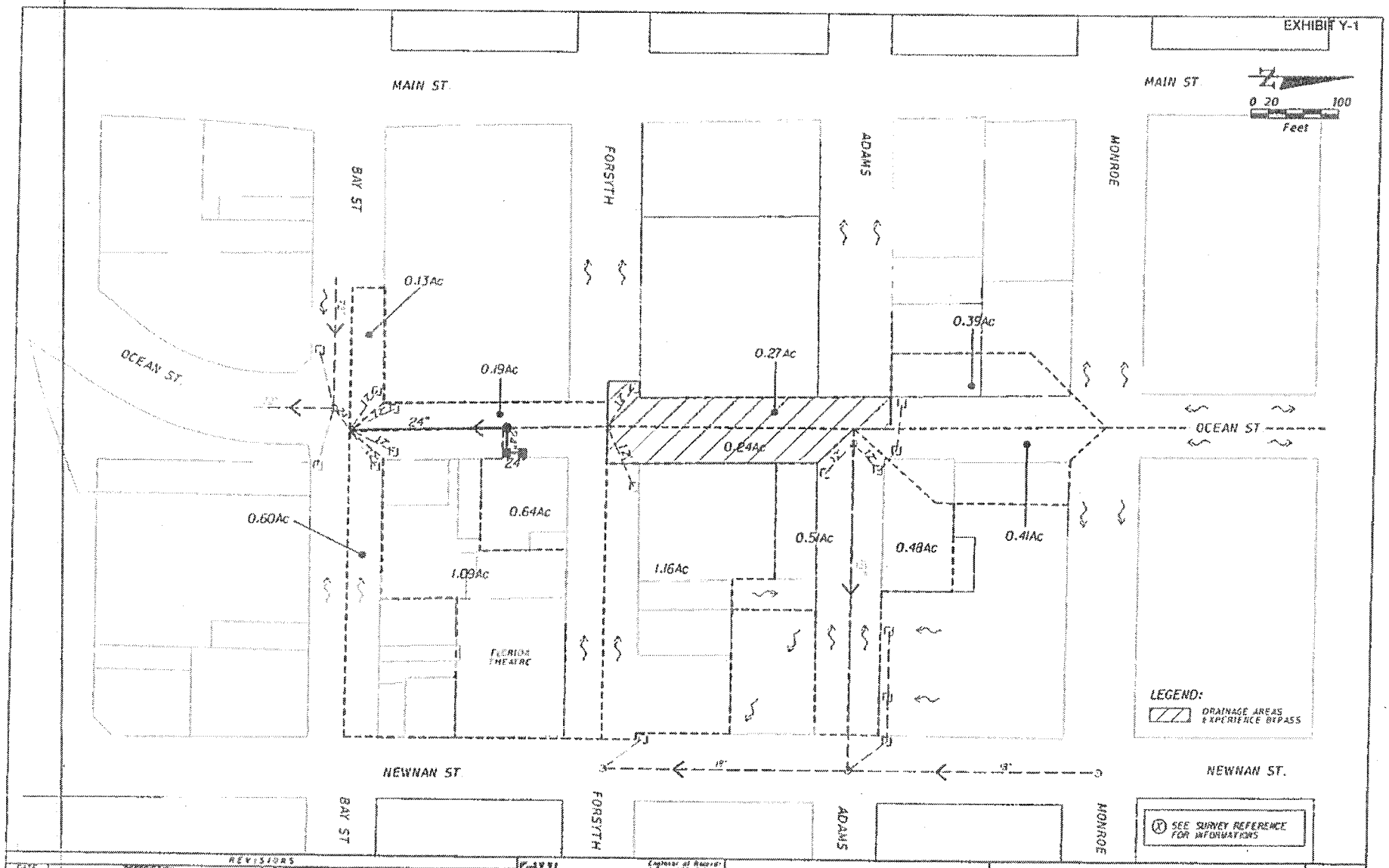
Additional survey needed:

Need the upstream and downstream inverts of the 15" pipe under Adams Street between Ocean Street and Newnan Street

Underground utility survey along Ocean Street

Need the upstream and downstream inverts of the 15" pipe under Ocean Street between Bay Street and Forsyth Street.

EXHIBIT Y-1



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wister Inc.

CITY OF JACKSONVILLE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

PROPOSED DRAINAGE MAP

SHEET NO.

APPENDICES

FDOT Storm drain Handbook

- Design Storm
- Time of Concentration
- FDOT IDF Curve – Area 4

CHAPTER 3

STORM DRAIN HYDROLOGY AND HYDRAULICS

3.1 INTRODUCTION

This chapter presents minimum standards for the design of FDOT storm drain systems.

3.2 PIPE MATERIALS

Pipe material selection must follow ***Chapter 6*** of this ***Manual.***

3.3 DESIGN FREQUENCY

Standard design storm frequencies for the design of storm drain systems are as follows:

TYPE STORM DRAIN	FREQUENCY
General design	3-year
• General design work that involves replacement of a roadside ditch with a pipe system by extending side drain pipes • General design on work to Interstate Facilities	10-year
• Interstate Facilities for which roadway runoff would have no outlet other than a storm drain system, such as in a sag inlet or cut section • Outlets of systems requiring pumping stations	50-year

Acquire flood rights where offsite stages increase and impact land use values.
If a system has both curb inlets and ditch bottom inlets (DBIs), check the hydraulic grade line (HGL) for the DBIs for a 10-year design frequency. All structures in these mixed systems must meet the three-year design frequency.

3.5 HYDROLOGIC ANALYSIS

The Department requires use of the Rational Method for performing hydrologic calculations for storm drains. When storm drain systems are integrated with French drain systems or ditch storage systems, perform calculations using hydrographs to account for storage.

3.5.1 Time of Concentration

The minimum allowable time of concentration is 10 minutes.

3.6 HYDRAULIC ANALYSIS

Base hydraulic calculations for determining storm drain conduit sizes on open channel and pressure flow, as appropriate, using Manning's equation.

3.6.1 Pipe Slopes

Use a physical slope that will produce a velocity of at least 2.5 feet per second (fps) and no greater than 15 fps when the storm drain is flowing full.

For pressure flow storm drain systems, the minimum physical slope is 0.1 percent.

3.6.2 Hydraulic Gradient

Include friction losses in computing the design hydraulic gradient for all storm drain systems. Also include energy losses associated with special pollution control structures (weirs, baffles, etc.) and those caused by utility conflict structures.

When hydraulic calculations include only the major losses, such as those described above, and do not include all minor energy losses, the elevation of the hydraulic gradient for design storm conditions will be at least one foot below the theoretical gutter elevation (i.e., 1.13 feet below the edge of pavement for Type E or F Curb). This does not apply to ditch bottom inlets and other similar conditions where temporary ponding or overload is acceptable.

If you calculate all major and minor energy losses, it is acceptable for the hydraulic gradient to reach the theoretical gutter elevation. Minor losses include: entrance, exit, junction and manhole, expansion, contraction, and bend.

Drainage Manual
IDF Curves

ZONES FOR PRECIPITATION IDF CURVES DEVELOPED BY THE DEPARTMENT

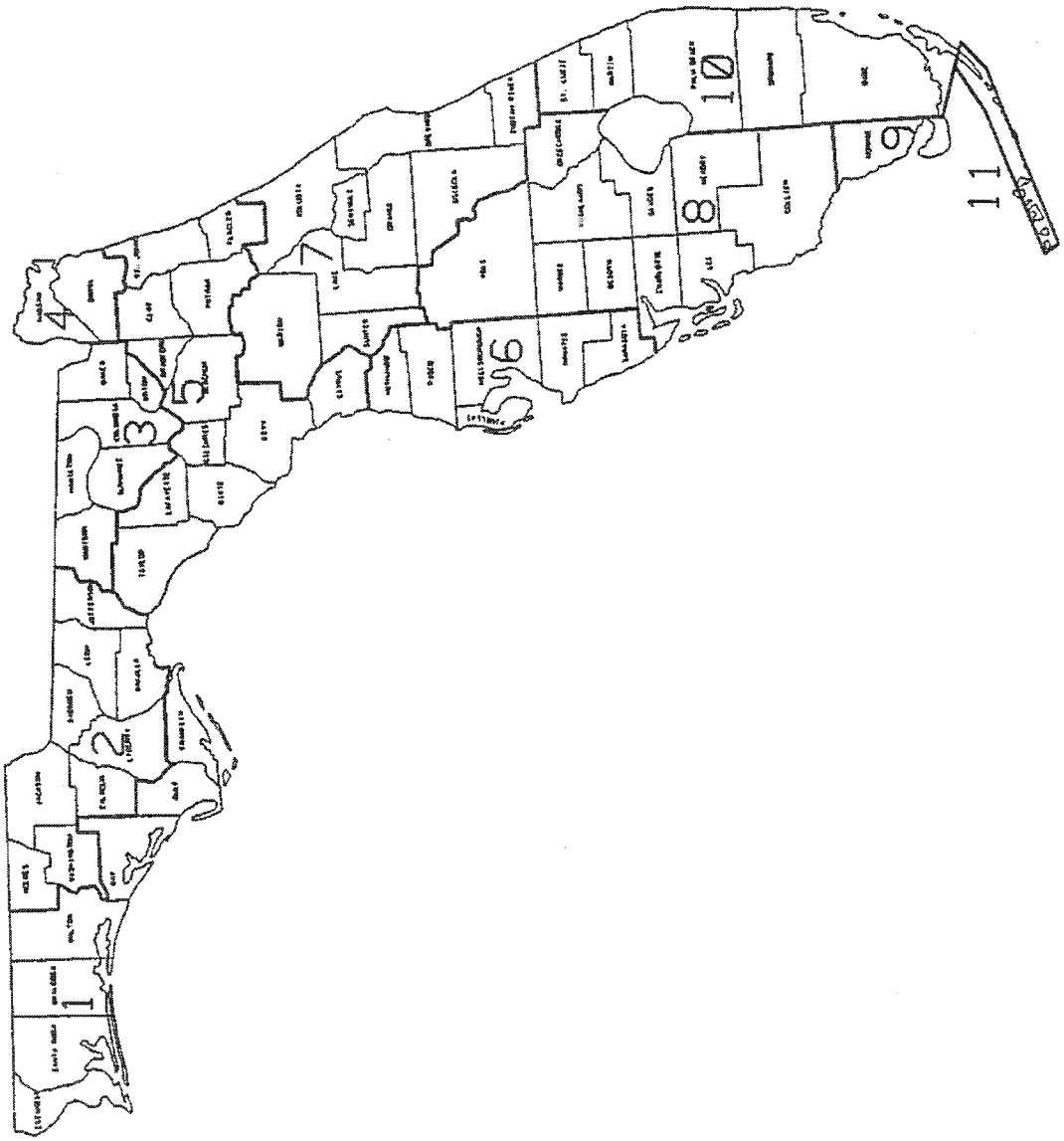
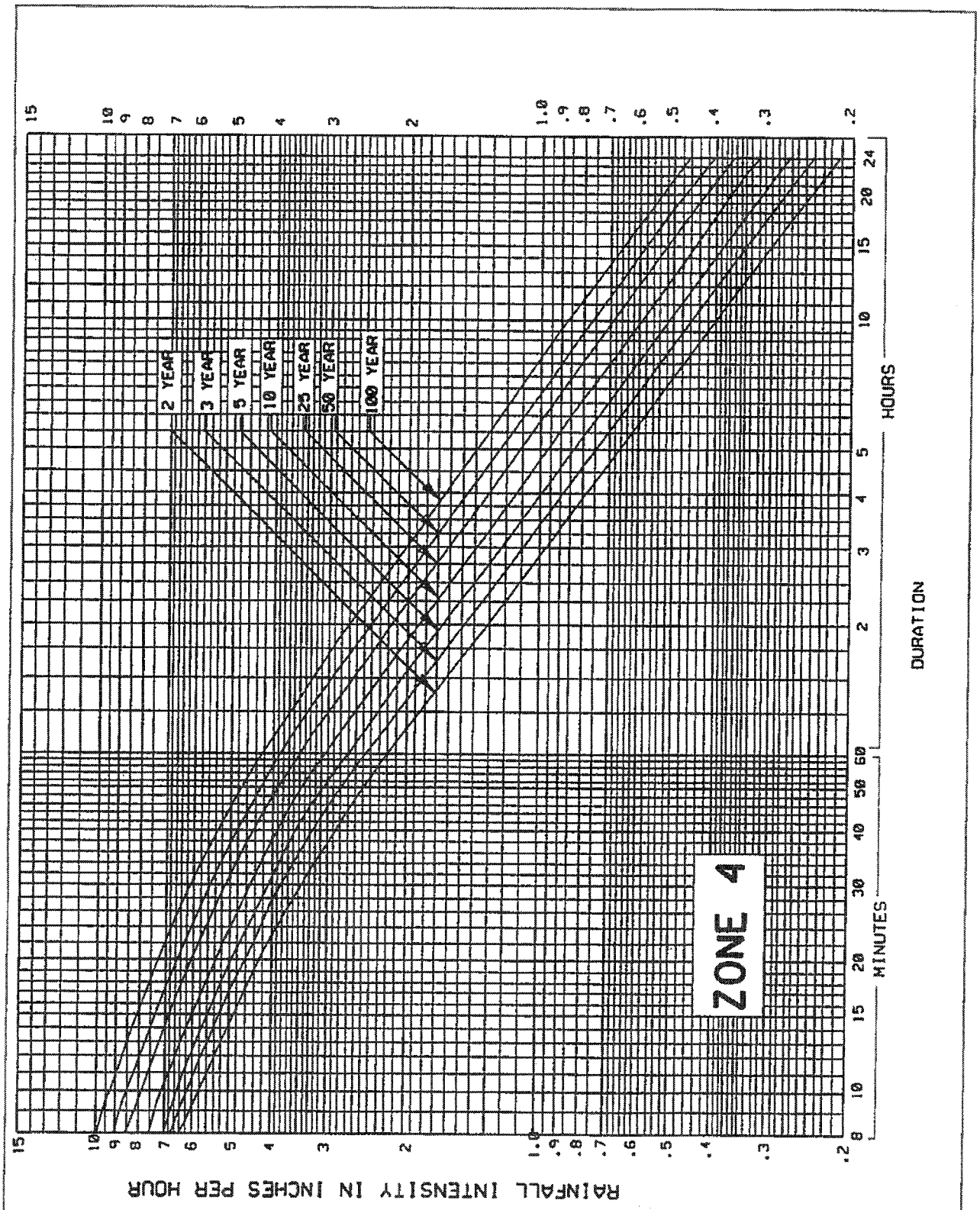


EXHIBIT Y-1



RAINFALL INTENSITY-DURATION-FREQUENCY CURVES

ZONE 4

COWFORD CHOPHOUSE
DUVAL COUNTY, FLORIDA
GRADING PLAN
Connelly & Wicker Inc.
Planning · Engineering · Landscape Architecture
5
East Bay Street
Ocean Street
PROPOSED
#101
#107
#109
SECTION B-B
SECTION A-A

DESIGN- BUILD SERVICES OF HORIZONTAL/CIVIL ENGINEERING PROJECTS

BID # CDB-0006-16 OPEN DATE: 10/21/2015

COMPETITIVE SEALED PROPOSAL EVALUATION COMMITTEE

KIND AND BASIS OF CONTRACT:
CONSTRUCTION – DESIGN/BUILD

AGENCY: DEPARTMENT OF PUBLIC WORKS

BASIS OF AWARD: EVALUATION CRITERIA

NUMBER OF BIDS INVITED: 5 NUMBER RECEIVED: 5 OTHER: 1

SUMMARY OF BIDS AND RECOMMENDED ACTIONS:
The City had previously issued this RFP, and the evaluation committee has evaluated proposals. Subsequently, presentations were conducted and evaluated on January 28, 2016. Based upon the combination of proposal and presentation evaluations, scores and rankings are as follows (Listed in alphabetical order):

2) Archer-Western – 118.25
3) Callaway Contracting, Inc. - 100
1) J.B. Coxwell Contracting, Inc. - 121.5

Recommend approval of award to J.B. Coxwell Contracting, Inc., as receiving the highest score in accordance with the evaluation and ranking above. Period of Service will be five (5) years from effective date of contract with funding not-to-exceed $6,000,000.00 annually. To be executed by formal contract through Office of General Counsel.

Attachments: Recommendation Memo, Scoring Matrix, Previous Award

BUYER Marilyn Laidler
MARILYN LAIDLER

RESPECTFULLY SUBMITTED
GREGORY PEASE, CHIEF
PROCUREMENT DIVISION

CONCURRENCE BY: Thomas N. Fallin, P.E., Acting Chief-Engineering & Construction Management Division

(ALL AWARD ACTIONS SUBJECT TO LAWFULLY APPROPRIATED FUNDS)
ACTION OF CSPEC COMMITTEE ON RECOMMENDATIONS ABOVE

MEMBERS APPROVING 5 MEMBERS DISAPPROVING _____ DATE: 2/4/16

OTHER _____

ACTION OF AWARDING AUTHORITY DATE 2/04/16

MR APPROVED ✓ DISAPPROVED: _____

Sam E. Mousa
Chief Administrative Officer
For: Mayor Lenny Curry
Under Authority of
Executive Order No. 2015-05

OTHER: _____

SIGNATURE OF AUTHENTICATION _____

SUBJECT: RFQ- FOR DESIGN- BUILD SERVICES OF HORIZONTAL/CIVIL ENGINEERING PROJECTS

BID # CDB-0006-16 OPEN DATE: 10/21/2015

COMPETITIVE SEALED PROPOSAL EVALUATION COMMITTEE

KIND AND BASIS OF CONTRACT:
CONSTRUCTION – DESIGN/BUILD

AGENCY: DEPARTMENT OF PUBLIC WORKS

BASIS OF AWARD: EVALUATION CRITERIA

NUMBER OF BIDS INVITED: 5 NUMBER RECEIVED: 5 OTHER: 1

SUMMARY OF BIDS AND RECOMMENDED ACTIONS:
The City had previously issued this RFP, and the evaluation committee has evaluated proposals. Based upon the proposal evaluation, the average scores and rankings are as follows (Listed in alphabetical order):

2) Archer-Western Contractors, LLC. – 91
1) J.E. Coxwell Contracting- 92
3) Callaway Contracting- 74

Pursuant to Section 2.6 – Award of Contract of the RFP, recommend approval to conduct formal interviews with each of the three-top ranked Firms.

Attachments: Recommendation Memo, Scoring Matrix, Bid Tabulation, Section 2.6, JSEB Letter

BUYER Marilyn Laidler
MARILYN LAIDLER

RESPECTFULLY SUBMITTED
GREGORY PEASE, CHIEF
PROCUREMENT DIVISION

CONCURRENCE BY: William J. Joyce, P.E., Chief-Engineering & Construction Management

(ALL AWARD ACTIONS SUBJECT TO LAWFULLY APPROPRIATED FUNDS)
ACTION OF CSPEC COMMITTEE ON RECOMMENDATIONS ABOVE

MEMBERS APPROVING 5 MEMBERS DISAPPROVING _____ DATE: 12-30-15

OTHER _____

ACTION OF AWARDING AUTHORITY DATE 1/01/16

APPROVED ✓ DISAPPROVED: _____

OTHER: _____

SIGNATURE OF AUTHENTICATION

Sam E. Mousa
Chief Administrative Officer
For: Mayor Lenny Curry
Under Authority of:
Executive Order No. 2015-05

QWS3270X 12/14/2018 1:45 PM
FAML6350 V5.1 ** NW COJ FAMIS PRODUCTION ** 12/14/2018
LINK TO: ACCOUNT SUMMARY INQUIRY 1:45 PM

FISCAL MO/YEAR : 03 2019 CURRENCY CODE :
INDEX CODE : PWCP331SD541 PW S & D CAPITAL PROJECTS (F5410)
SUBOBJECT : 06505 OTHER CONSTRUCTION COSTS
PROJECT : PW0718 OCEAN & BAY ST.
PROJECT DETAIL : 01 OCEAN & BAY ST. DRAINAGE IMPROVEMENTS
GRANT : PWC023 OCEAN & BAY ST. DRAINAGE IMPROVEMENTS
GRANT DETAIL : 18 OCEAN & BAY ST. DRAINAGE IMPROVEMENTS
USER CODE :

S	DEC 2018	ANNUAL BALANCE	ALL YEARS BALANCE
ESTIMATED REVENUES	.00	.00	.00
REVENUES	.00	.00	.00
UNREALIZED REVENUES	.00	.00	.00
BUDGET	.00	148,000.00	148,000.00
EXPENDITURES	.00	.00	.00
ENCUMBRANCES	.00	.00	.00
PRE-ENCUMBRANCES	.00	.00	.00
REMAINING BALANCE	.00	148,000.00	148,000.00

F1-HELP F2-SELECT F4-PRIOR F5-NEXT
F9-LINK F10-PRIOR-MO F11-NEXT-MO
G005 - PRIOR RECORD DISPLAYED

QWS3270X 12/14/2018 1:43 PM
FAML6350 V5.1 ** NW COJ FAMIS PRODUCTION ** 12/14/2018
LINK TO: ACCOUNT SUMMARY INQUIRY 1:43 PM

FISCAL MO/YEAR : 03 2019 CURRENCY CODE :
INDEX CODE : DICP363 DIA CAPITAL PROJECTS-OTHER CONSTRUCTION
SUBOBJECT : 06505 OTHER CONSTRUCTION COSTS
PROJECT : PW0718 OCEAN & BAY ST.
PROJECT DETAIL : 01 OCEAN & BAY ST. DRAINAGE IMPROVEMENTS
GRANT :
GRANT DETAIL :
USER CODE :

S	DEC 2018	ANNUAL BALANCE	ALL YEARS BALANCE
ESTIMATED REVENUES	.00	.00	.00
REVENUES	.00	.00	.00
UNREALIZED REVENUES	.00	.00	.00
BUDGET	.00	40,796.93	40,796.93
EXPENDITURES	.00	.00	.00
ENCUMBRANCES	.00	.00	.00
PRE-ENCUMBRANCES	.00	.00	.00
REMAINING BALANCE	.00	40,796.93	40,796.93

F1-HELP F2-SELECT F4-PRIOR F5-NEXT
F9-LINK F10-PRIOR-MO F11-NEXT-MO
G005 - PRIOR RECORD DISPLAYED

QWS3270X 12/14/2018 1:44 PM
FAML6350 V5.1 ** NW COJ FAMIS PRODUCTION ** 12/14/2018
LINK TO: ACCOUNT SUMMARY INQUIRY 1:44 PM

FISCAL MO/YEAR : 03 2019 CURRENCY CODE :
INDEX CODE : DICP322 DIA CAPITAL PROJECTS-OTHER CONSTRUCTION
SUBOBJECT : 06505 OTHER CONSTRUCTION COSTS
PROJECT : PW0718 OCEAN & BAY ST.
PROJECT DETAIL : 01 OCEAN & BAY ST. DRAINAGE IMPROVEMENTS
GRANT :
GRANT DETAIL :
USER CODE :

S	DEC 2018	ANNUAL BALANCE	ALL YEARS BALANCE
ESTIMATED REVENUES	.00	.00	.00
REVENUES	.00	.00	.00
UNREALIZED REVENUES	.00	.00	.00
BUDGET	.00	145,116.97	145,116.97
EXPENDITURES	.00	.00	.00
ENCUMBRANCES	.00	.00	.00
PRE-ENCUMBRANCES	.00	.00	.00
REMAINING BALANCE	.00	145,116.97	145,116.97

F1-HELP F2-SELECT F4-PRIOR F5-NEXT
F9-LINK F10-PRIOR-MO F11-NEXT-MO
G005 - PRIOR RECORD DISPLAYED

FISCAL MO/YEAR : 03 2019 CURRENCY CODE :
INDEX CODE : PWEN462SW DSR CAPITAL IMPROVEMENTS
SUBOBJECT : 06505 OTHER CONSTRUCTION COSTS
PROJECT : PW0072 DRAINAGE SYSTEM REHABILATION
PROJECT DETAIL : 01 DRAINAGE SYSTEM REHABILITATION
GRANT :
GRANT DETAIL :
USER CODE :

S	DEC 2018	ANNUAL BALANCE	ALL YEARS BALANCE
ESTIMATED REVENUES	.00	.00	.00
REVENUES	.00	.00	.00
UNREALIZED REVENUES	.00	.00	.00
BUDGET	.00	.00	1,346,714.59
EXPENDITURES	3,685.00	11,634.11	1,087,031.47
ENCUMBRANCES	-12,580.87	26,453.17	218,838.14
PRE-ENCUMBRANCES	.00	.00	.00
REMAINING BALANCE	8,895.87	-38,087.28	40,844.98

F1-HELP F2-SELECT F4-PRIOR F5-NEXT
F9-LINK F10-PRIOR-MO F11-NEXT-MO
G005 - PRIOR RECORD DISPLAYED