



Interoffice Memorandum

Date July 27, 2023

TO: Mayor Jerry L. Demings
-AND-
County Commissioners

FROM: Joseph C. Kunkel, P. E., Director, Public Works Department

Joseph C Kunkel
RAD

CONTACT PERSON: **Raymond L.A. Williams, P.E., Manager
Public Works Engineering Division**

PHONE NUMBER: **(407) 836-7909**

SUBJ: **Approval of Change Order Request No. 2 to Purchase Order No.: M101115.
East Bay Streets – Section 2
Community Development Project (CD No. 93-53)**

Change Order Request No. 2 to Purchase Order No.: M101115, East Bay Streets – Section 2, Community Development Project (CD No. 93-53) with Metric Engineering, Inc., is required to update the latest plan set to current design standards. This change order, in the amount of \$53,740, increases the original contract amount from \$98,418 to \$152,159. Additionally, the contract time will increase by 120 days from the date of the issuance of the change order.

The following are the previous contract actions:

Original Contract **Amount: \$98,418.89**
The purpose of the scope of services for the original contract is to perform final engineering design and construction plan preparations for the East Bay Street improvements project.

Change Order Request No. 1 **Amount: \$0.00**
The consultant requested 113-day time extension due to COVID to complete final plans.

Action Requested: **Approval and execution of Change Order Request No. 2, Purchase Order No.: M101115 for the East Bay Streets – Section 2, Community Development Project (CD No. 93-53) between Orange County and Metric Engineering, Inc. in the amount of \$53,740, for a revised contract amount of \$152,159. District 1.**

JCK/RLAW/ilc

Attachment(s)

Change Order/ Amendment

PO Number: **M00000101115- 3**

Orange County, Florida
Telephone (407) 836-5635

STANDARD

ABOVE PURCHASE ORDER NUMBER MUST APPEAR ON ALL INVOICES, BILLS OF LADING, PACKAGES AND CORRESPONDENCE.

Invoice To: Fiscal & Operational Support Division
4200 S John Young Parkway
Phone 407-836-7900
Orlando, FL 32839
Public Works Department

Prcu.Id: 2071211
Date: 08/23/2023 Page: 1 of 1

Ship To: Public Works Engineering Department/Admin.
Conf: NO

4200 S. John Young Pkwy, 2nd Fl
Phone (407) 836-7908
Orlando, FL 32839-9205
Joyce Gordy
407-836-7952

Vendor Number: 094830
Contact: MARILEY PEREZ
Vendor: METRIC ENGINEERING INC
SUITE 153
525 TECHNOLOGY PARK
LAKE MARY, FL 32746-7107
407-644-1898

Delivery Date: 09/30/2020
Reference: SOLE SOURCE
Authorized by: Carol Hewitt
FOB: FOB Dest, Freight Prepaid
TOTAL: \$148,219.48

Award Date: Award Amount:

LINE NO	QUANTITY UNIT ACCOUNTING LINE	DESCRIPTION	ACCOUNTING LINE AMOUNT	UNIT COST	TOTAL COST
1	148219.48000 EA	Professional engineering and surveying and mapping services for Community Development Project (CD No. 93-53) East Bay Streets - Section 2 Total Project Fee - \$98,418.89 The remaining balance will be encumbered at a later time. Submitted by Roberto Ng (407) 836-8067 Sole Source This P.O. replaces C20823 per Finance's request. 7/8/20: C/O #1 issued to increase CL# 1 for an encumbrance of \$48,418.89 for the scope of services. Authorized by Carol Hewitt. 9/30/20: Zero dollar change order to allow an additional 113 days to deliver completion time. Authorized by Carol Hewitt. CO# 3 Issued for additional services and to extend contract by 120 days. BCC Approved Date 8/22/23 Board Approved Amount: \$53,740.84. Partial encumbrance remaining balance to be encumber at a later date. RQSOC NO: Q00000124635 1003 072 5148 6311		1.000000	148,219.48
TOTAL:					\$148,219.48

SPECIAL INSTRUCTIONS



THIS ORDER IS SUBJECT TO THE TERMS AND CONDITIONS ATTACHED HERETO

VENDOR COPY

AUTHORIZED SIGNATURE

Rev.4/2022

Suppliers are cautioned to be vigilant on receipt of orders and/or order inquiries on behalf of Orange County, Florida. If you are the recipient of an unsolicited order, or suspect fraudulent activity, email Procurement@OCFL.net or phone (407) 836-5635 to verify the authenticity of the request.

Board of County Commissioners

Change Order/ Amendment

PO Number: M00000101115- 2

Orange County, Florida
Telephone (407) 836-5635

STANDARD

ABOVE PURCHASE ORDER NUMBER MUST APPEAR
ON ALL INVOICES, BILLS OF LADING, PACKAGES
AND CORRESPONDENCE.

Invoice To: Fiscal & Operational Support Division

4200 S John Young Parkway
Phone 407-836-7900
Orlando, FL 32839
Public Works Department

Prcu.Id: 2071211

Date: 09/30/2020 Page: 1 of 1

Ship To: Public Works Engineering Department/Admin.

Conf: NO

4200 S. John Young Pkwy, 2nd Fl
Phone (407) 836-7908
Orlando, FL 32839-9205
Joyce Gordy
407-836-7952

Vendor Number: 094830

Contact: MARILEY PEREZ

Vendor: METRIC ENGINEERING INC
SUITE 153
525 TECHNOLOGY PARK
LAKE MARY, FL 32746-7107
407-644-1898

Delivery Date: 09/30/2020

Reference: SOLE SOURCE

Authorized by: Carol Hewitt

FOB: FOB Dest, Freight Prepaid

TOTAL: \$98,418.89

Award Date:

Award Amount:

LINE NO	QUANTITY	UNIT	DESCRIPTION	ACCOUNTING LINE AMOUNT	UNIT COST	TOTAL COST
1	98418.89000	EA	Professional engineering and surveying and mapping services for Community Development Project (CD No. 93-53) East Bay Streets - Section 2 Total Project Fee - \$98,418.89 The remaining balance will be encumbered at a later time. Submitted by Roberto Ng (407) 836-8067 Sole Source This P.O. replaces C20823 per Finance's request. 7/8/20: C/O #1 issued to increase CL# 1 for an encumbrance of \$48,418.89 for the scope of services. Authorized by Carol Hewitt. 9/30/20: Zero dollar change order to allow an additional 113 days to deliver completion time. Authorized by Carol Hewitt. RQSOC NO:		1.000000	98,418.89
TOTAL:						\$98,418.89

Special Instructions:

THIS ORDER IS SUBJECT TO THE TERMS AND
CONDITIONS ATTACHED HERETO

VENDOR COPY

AUTHORIZED SIGNATURE

Rev.10/2015



BCC Mtg. Date: August 22, 2023

**ORANGE COUNTY PROCUREMENT DIVISION
CHANGE ORDER REQUEST FORM**

REQUEST DATE	BUDGET FY	GRANT FUNDING
7-13-23	2023	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> THIS REQUEST COMPLIES WITH COST PRINCIPLES

DEPARTMENT/DIVISION	CONTACT NAME	CONTACT PHONE	CONTACT EMAIL
Public Works - PW Engineering	Pat Davis	407-836-7850	pat.davis@ocfl.net

VENDOR	CHANGE ORDER NO.	DOCUMENT NO. (ATTACH A COPY)	TYPE	CONTRACT NUMBER	BUYER/PA/CA NAME
Metric Engineering Inc	2	M101115	POOC	sole source	Carol Hewitt

INCREASE, DECREASE OR DELETE COMMODITY LINE

CMDTY. LINE NO.	ACTION	PREVIOUS LINE DOLLAR AMOUNT	NEW LINE DOLLAR AMOUNT	COMMODITY LINE DESCRIPTION/COMMENTS	NET DOLLAR CHANGE
1	Increase Quantity	FROM 98418.89	\$98,418.89	East Bay Streets	\$49,800.59
		TO 148219.48			
	Select Action	FROM			\$0.00
		TO			
	Select Action	FROM			\$0.00
		TO			

ADD COMMODITY LINE

CMDTY. LINE NO.	CMDTY. CODE	DESCRIPTION	QTY.	UNIT OF MEAS.	UNIT COST	ACCOUNTING LINE	NET DOLLAR CHANGE
		FOR D.O. YOU MUST SPECIFY AN MA LINE					
							\$0.00
							\$0.00
							\$0.00

ACCOUNTING LINE CHANGE

CMDTY. LINE NO.	ACCTG. LINE NO.	FROM AMOUNT	FROM ACCOUNTING LINE	TO AMOUNT	TO ACCOUNTING LINE

OTHER CHANGES

DESCRIBE
Extend contract time by 120 days

ENCUMBERED/DE-ENCUMBERED (REQUIRED FOR ALL TRANSACTIONS)

ORIGINAL PO/DO AMT.	NET DOLLARS PREVIOUS C/O	NET DOLLARS FOR THIS C/O	DOCUMENT TOTAL AFTER THIS C/O
\$50,000.00	<input checked="" type="checkbox"/> ADD <input type="checkbox"/> SUBTRACT \$48,418.89	<input checked="" type="checkbox"/> ADD <input type="checkbox"/> SUBTRACT \$49,800.59	\$148,219.48

CONTRACT AMOUNT

AWARD AMOUNT	NET DOLLARS PREVIOUS C/O	NET DOLLARS FOR THIS C/O	CONTRACT TOTAL AFTER THIS C/O
\$98,418.89	<input type="checkbox"/> ADD <input type="checkbox"/> SUBTRACT	<input checked="" type="checkbox"/> ADD <input type="checkbox"/> SUBTRACT \$53,740.84	\$152,159.73

- CANCEL ENTIRE PO/DO
- DO NOT MAIL VENDOR COPY

JUSTIFICATION (REQUIRED FOR ALL TRANSACTIONS)

Please increase CL1 by \$49,800.59 and contract amount by \$53,740.84. Balance to be encumbered at a later date. Thank you.

By signing this agreement, the Contractor hereby releases the County, its agents and employees from any and all liabilities under this contract for further equitable adjustments and/or claims associated with this change order.

VENDOR/ CONTRACTOR AUTHORIZATION

DATE: _____

DEPARTMENT APPROVAL SIGNATURE

DATE: 7-13-23

OFFICIAL PROCUREMENT DIVISION USE ONLY

PROCUREMENT APPROVAL: _____	DATE: _____
ADD THE FOLLOWING TEXT TO PO/DO: _____	TRACK CHANGES: <input type="checkbox"/> YES <input type="checkbox"/> NO
CHANGE AWARD AMOUNT TO: _____	



Interoffice Memorandum

July 12, 2023

TO: Tracy Attenasio, NIGP-CPP, CPPB, Contracts Supervisor, Procurement Division

FROM: Roberto Ng, P.E., Senior Engineer, Engineering Division

SUBJ: **Change Order Request #2**
East Bay Streets - Section 2
Community Development Project (CD No. 93-53)
Sole Source Contract for Metric Engineering, Inc.

Metric Engineering, Inc. is providing professional engineering services for the above referenced project. This work effort falls under PO Number: M101115.

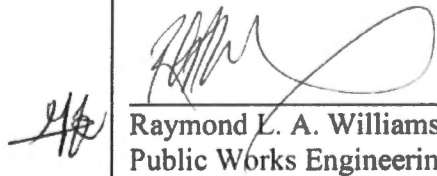
The Engineering Division has negotiated the attached change order proposal with Metric Engineering, Inc. to perform engineering services required to prepare an updated plan set using current design standards. The proposal increases the contract price by \$53,740.84. This Change Order request will encumber \$49,800.59 towards the proposal amount and increase contract time by one hundred twenty (120) days from the date of the issuance of the Change Order. The remaining balance will be encumbered at a later time.

Action Requested:

Approval of Change Order Request No. 2 for the additional engineering services under PO Number: M101115 with Metric Engineering, Inc. to encumber \$49,800.59 towards the increase of the contract amount by \$53,740.84 and extend contract time by one hundred twenty (120) days.

Accounting line
1003-072-5148-6311

Amount
\$49,800.59


Raymond L. A. Williams, P.E., Manager
Public Works Engineering Division

Patricia Davis, Financial Administrator
Fiscal and Administration Division

July 12, 2023

TO: Tracy Attenasio, NIGP-CPP, CPPB, Contracts Supervisor, Procurement Division

SUBJ: Change Order Request #2
East Bay Streets - Section 2
Community Development Project (CD No. 93-53)
Sole Source Contract for Metric Engineering, Inc.

Page 2

PROJECT SUMMARY

Original Contract: Date: 1/23/2020 Amount: \$ 98,418.89

The purpose of the scope of services for the original contract is to perform final engineering design and construction plan preparations for the East Bay Street improvements project.

Amendment No. 1: Date: 9/22/2020 Amount: \$ 0.00

This amendment to the original scope of service is based on the requested additional time needed to prepare and submit final plans and documents.

Amendment No. 2: Date: 7/7/2023 Amount: \$53,740.84

This amendment to the original scope of service is to perform engineering services required to prepare an updated plan set using current design standards.

DESIGN FEE SUMMARY

Original Contract	\$ 98,418.89
Amendment No. 1	\$ 0.00
<u>Amendment No. 2</u>	<u>\$ 53,740.84 (Pending)</u>
New Contract Total:	\$ 152,159.73

Please contact me at 407-836-8067, or Eric Haertjens at 407-836-7882, if you have any questions or require additional information.

Attachments

- Amendment Request form
- Exhibit A: Scope of Services
- Exhibit B: Fee Proposal

RN/EMH/ilc

cc: Raymond L.A. Williams, P.E., Manager, Public Works Engineering Division
Ghulam Qadir, P.E., Chief Engineer, Public Works, Engineering Division
Colleen Lutz, Assistant Project Manager, Public Works Engineering Division
Eric Haertjens, E.I., Engineer II, Public Works Engineering Division

**AMENDMENT REQUEST
PURCHASE ORDER / RELEASE ORDER / CONTRACT**

Vendor Code: 94830

Vendor Name: Metric Engineering, Inc.

Amendment Number: 2

To Document No.: M101115

Date: July 6, 2023

Division: Public Works Engineering

Description of Change: East Bay Streets - Section 2

Engineering Services will include:

This amendment to the original scope of service is to perform engineering services required to prepare an updated plan set using current design standards.

Contract Number: M101115

Change Order Amount: \$53,740.84

Task Authorization Number: N/A

Fund Code Number: 1003-072-5148-6311

Change in Contract Time: 120

THIS SECTION FOR CONTRACTS ONLY

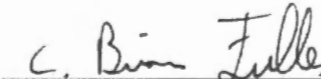
Original Contract Award Amount: \$98,418.89

Net Dollars for Previous Change Orders (Addition/Subtraction): \$0.00

Net Dollars for This Change Order (Addition/Subtraction): \$53,740.84

New Contract Total Dollars: \$152,159.73

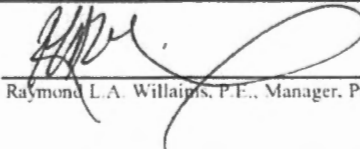
Vendor/Contractor Authorization:



Date: 07/07/2023

C. Brian Fuller, P.E., Project Manager, Metric Engineering, Inc.

Divisional Approval:



Date: 7/7/23

Raymond L.A. Willaings, P.E., Manager, Public Works Engineering Division

Fiscal and Administrative Section
Approval:

Date: _____
Patricia Davis, Financial Administrator, Public Works Department

Procurement/Commission Approval:

Date: _____

Exhibit A
East Bay Street
(Dunbar Avenue to End of Street)
(Approximate Length)

**Amendment 2 – Plans Update and Post Design
Scope of Services**

The Consultant shall provide final engineering design and construction plan preparation for the above referenced project. The Consultant shall perform those engineering services required to prepare a updated set of contract documents (plans and specifications) as described elsewhere herein.

The Consultant shall use the current design plans (Dated February 2021) and current design standards to develop an updated plan set.

The Consultant's Engineer-of-Record shall sign and seal a certification on the plans stating that the design has been prepared in accordance with the State of Florida Manual of Uniform Standards for Design, Construction, and Maintenance for Streets and Highways. Plans shall be accurate, legible and completed in accordance with the Florida Department of Transportation (FDOT) Design Manual (FDM) and the FDOT Standard Plans latest English Units edition, in effect at the time of the Notice to Proceed, as modified herein. The Consultant shall utilize his/her best engineering judgment, practices and principles in performing the work.

The lump sum fee and man-hour requirements shall be presented utilizing forms in Exhibit B. A general Project Schedule shall be attached to the fee proposal as Exhibit C.

The tasks included in this Scope of Services can be generally grouped into the following nine primary categories:

1. Administration
2. Public Information
3. Design and Plans Preparation
4. Permitting
5. Right-of-Way Engineering – NOT APPLICABLE
6. Design Surveys – NOT APPLICABLE
7. Geotechnical Services – NOT APPLICABLE
8. Railroad Coordination
9. Post Design Services

This Scope of Services addresses each task within these elements and serves to further define specific requirements. The Consultant shall submit all required deliverables and provide specific services (with the exception of Post Design Services) within 120 days inclusive of 4-week County review period for submittal.

1.0 Administration

1.1 Notice to Proceed Meeting – NOT APPLICABLE

1.2 Project Meetings

The appropriate members of the Consulting team shall attend periodic meetings (up to 2 meetings) with the Orange County Project Manager and staff to discuss project progress and status, technical issues such as constructability, utility coordination, and upcoming events and activities. The purpose of these meetings is to maintain clear communication between the County and the Project Team. The Consultant shall prepare and distribute meeting minutes following each of these meetings.

1.3 Project Management and Supervisions

Project Management and Supervision shall be included as a percentage of manhours for each primary categories listed above except for Administration and Post Design Services

1.4 Project Schedule

The Consultant shall prepare and submit a detailed project schedule within 10day of receiving the Notice to Proceed. All deliverables shall be identified as milestones on the schedule. The Consultant shall submit an updated design project schedule as directed by the Orange County Project Manager.

1.5 Cost Estimates and Construction Schedule

The Consultant shall prepare and submit a detailed engineer's cost estimate for construction of the project. The Consultant shall also provide an estimate of construction time duration with the final submittal.

1.6 Utility Coordination

The Consultant shall coordinate with all utility providers within the project limits by furnishing updated plans to the utility owners for review, confirmation of utility location and relocation purposes. The development of the roadway plans shall incorporate and consider the input provided by each utility. The Consultant shall coordinate with all utilities to ensure that the final design considers all existing and proposed utilities. Consultant shall also provide a summary of the response received from each Utility.

The Consultant shall prepare a utilities conflict matrix and resolve all utility conflicts prior to submitting final plans. No utilities shall be in conflict with any proposed roadway improvements.

The Consultant shall coordinate with City of Winter Garden for the plans the City is developing to be let to contract with the roadway plans. The Consultant shall provide the latest CADD files to the City for inclusion in their plan set. The Consultant shall review to City's Utility Plans to verify all utility conflicts have been addressed and none of the notes or pay items in the City's plan conflict with the roadway plans.

1.7 Quality Assurance/Quality Control

The Consultant shall designate appropriate staff to conduct Quality Assurance/Quality Control (QA/QC) reviews of all work products. These reviews shall be performed for all work products prior to their being submitted to the County for review or use. Work effort for QA/QC reviews shall be addressed as part of the work effort for each Pay Item as identified elsewhere herein.

1.8 Deliverables

Work to be completed under this section by the Consultant shall require the following items to be delivered and accepted by the County:

- Final design project Schedule
- Construction Time Estimate
- Cost Estimate

1.11 Pay Item

Work to be completed under this section by the Consultant shall be paid for under the following pay items as listed on the Activity and Fee Summary:

- Administration

2.0 Public Information – Limiting Amount

The purpose of the public information element is to keep the community advised of the project status. Therefore, the Consultant will conduct the following public information activities at the direction of the County if necessary.

2.1 Public Information Plan – NOT APPLICABLE

2.2 Public Information Meeting

The Consultant will be responsible for all presentation and handout materials, including development of a project display board.

2.3 Web Page Update / Maintenance (Not Applicable)

2.4 Mailing List – TO BE PROVIDED BY THE COUNTY

2.5 Newsletter – TWO NEWSLETTERS INCLUDED IN PREVIOUS WORK ORDER

2.6 Deliverables

Work to be completed under this section by the Consultant shall require the following items to be delivered and accepted by the County:

- Public involvement meeting display board
- Newsletters

2.7 Pay Item

Work to be completed under this section by the Consultant shall be paid for under the following pay items as listed on the Activity and Fee Summary:

- Public Involvement

3.0 Design and Plans Preparation

The Consultant shall update the Roadway Plans Package to meet current Orange County and FDOT Standards and Specifications. These plans are for the use of the Contractor to bid and build the project and for Orange County to ensure the project is built as designed and to specifications. All text shall be clear and legible. Full size set shall be considered (11 inches x 17 inches) Internal Quality Assurance and Quality Control documentation from review conducted by the Consultant shall be provided with the final submittal. The Consultant shall complete designs required for all aspects of the project as specifically described herein.

Final bid documents shall be submitted in both hard copy, as specified elsewhere herein, and electronic format in accordance with the standards established by the Orange County Purchasing and Contracts Division.

3.1 Roadway Design

The Consultant shall complete all design analysis, as required to complete the roadway design of the project. This effort shall include, but not be limited to the following areas.

3.1.1 Design Analysis

The Consultant shall coordinate with Orange County on contamination issues associated with Pond 2 and what information will need to be included in the plans to properly detail the work required by the contractor.

3.1.2 Roadway Design Documentation and Computation Book

The Consultant shall update the design documentation based on the work developed under this plan update. Work to include updating design calculations and computations in book forms.

3.2 Drainage Design – NOT APPLICABLE

3.3 Structural Design – NOT APPLICABLE

3.4 Roadway Construction Plans

The Consultant shall update the construction plan sheets, notes and details to include, all sheets necessary to convey the intent and scope of the project for the purposes of construction.

3.4.1 Cover Sheet

The Consultant shall update all Orange County and FDOT references.

3.4.2 General Notes

The Consultant shall review and update the general notes to meet current Orange County and FDOT Standard Plans and specifications. Add any notes necessary for the contamination in Pond 2.

3.4.3 Standard Drawings and Details

The Consultant shall review and update all standard drawings and details to meet current Orange County and FDOT Standard Plans and specifications.

3.4.4 Summary of Pay Items

The Consultant shall update and revise all pay items and quantities that are required for this project based on current FDOT Pay Items per FDOT's Basis of Estimates Manual. The necessary pay items and quantities shall be shown on the summary of pay items sheet.

3.4.5 Drainage Map – NOT APPLICABLE

3.4.6 Typical Sections – NOT APPLICABLE

3.4.7 Summary of Quantities

The Consultant shall update the summary of quantities sheet in accordance with the current FDOT Basis of Estimates Manual and any other quantity changes. The summary of quantity sheets will include any necessary quantities associated with the contamination on the project.

3.4.8 Summary of Drainage Structures

The Consultant shall update the references and quantities associated with the current FDOT Basis of Estimates Manual and any other quantity changes. The summary of drainage structure will be revised to include the Pond 1 outfall revised as part of modification of the SJRWMD permit.

3.4.9 Survey Control Sheets – NOT APPLICABLE

3.4.10 Plan and Profile Sheets

The plan and profile sheets shall be updated based on the current FDOT Basis of Estimates Manual, FDOT Standard Plans, and FDOT Specifications. Any updates to the existing utilities will be provided on these sheets.

3.4.11 Driveway Profiles - NOT APPLICABLE

3.4.12 Intersection Details - NOT APPLICABLE

3.4.13 Drainage Structure Cross Sections

The drainage structure cross sections shall be updated based on the current FDOT Basis of Estimates Manual, FDOT Standard Plans, and FDOT Specifications. Any updates to the existing utilities will be provided on these drainage structure cross section sheets.

3.4.14 Box Culverts (NOT APPLICABLE)

3.4.15 Pond Details and Cross Sections

Pond detail sheets shall be updated as necessary to show the contamination at Pond 2. The detail sheet for Pond 1 will be updated based on outfall revised as part of modification of the SJRWMD permit.

3.4.16 Flood Plain Compensation Area Details (NOT APPLICABLE)

3.4.17 Mitigation Plans (NOT APPLICABLE)

3.4.18 Geotechnical Soil Survey (NOT APPLICABLE)

3.4.19 Cross Sections

The cross sections shall be updated based on the current FDOT Basis of Estimates Manual, FDOT Standard Plans, and FDOT Specifications. Any updates to the existing utilities will be provided on the cross section sheets.

3.4.20 Erosion Control Plans

The erosion control sheets shall be updated based on the current FDOT Basis of Estimates Manual, FDOT Standard Plans, and FDOT Specifications. Callouts and labels will be revised accordingly.

3.4.21 Maintenance of Traffic Plans

The Consultant shall update the notes and details for the Maintenance Traffic Plan to meet current Orange County and FDOT requirements. The construction documents shall provide for Maintenance of Traffic to be paid for as a lump sum item.

3.4.22 Utility Adjustment Plans/Roadway Lighting Coordination

The Consultant shall update the utility adjust sheets to show any changes to the existing utilities and the proposed utility relocations. These plans shall be updated based on information provided by the utility companies.

3.4.23 Signing and Pavement Marking Plans

The Consultant shall update the signing and pavement marking sheets based on the current FDOT Basis of Estimates Manual, FDOT Standard Plans, and FDOT Specifications. Pavement markings and signs shall conform to the *Manual on Uniform Traffic Control Devices*.

3.4.24 Signalization Plans (NOT APPLICABLE)

3.4.25 Landscape Plans (NOT APPLICABLE)

3.4.26 Structural Plans (NOT APPLICABLE)

3.5 Progress Review Submittals – NOT APPLICABLE

3.6 Specifications – NOT APPLICABLE

3.7 Electronic Design and Topography

The Consultant shall provide electronic Design and Topography files to the County in Microstation DGN format and Autodesk DWG file format.

3.8 Bid Package – BID PACKAGE IS BEING PREPARED BY ORANGE COUNTY.

3.9 Deliverables

Work to be completed under this section by the Consultant shall require the following items to be delivered and accepted by the County:

- Construction Plans and Engineer's Cost Estimate
- Roadway Design Documents and Computation Book
- Quantity Computation Book
- Technical and Special Provisions
- Final Electronic Design and Topography Files

3.10 Pay Items

Work to be completed under this section by the Consultant shall be paid for under the following pay items as listed on the Activity and Fee Summary.

- Drainage Design Documentation Report
- Roadway Design Criteria, Typical Section and Pavement Design Packages
- 100% Construction Plans
- Final Construction Plans
- Design Notes and Computations Book
- Quantity Computation Book
- Draft Technical and Special Provisions
- Final Technical and Special Provisions
- 100% and Final Engineer's Cost Estimate
- Electronic Bid Document Package
- Final Electronic Design and Topography Files

4.0 Permitting (Limiting Amount)

The Consultant will prepare or complete all necessary permitting efforts as described in this section prior to bidding. The Consultant will pay for all permit application fees from out of pocket expenses.

4.1 Agency Coordination

The Consultant shall coordinate with the St. Johns River Water Management District to obtain a 2-year extension. The Consultant will prepare and extension letter to send to the water management district for the extension.

4.2 Threatened and Endangered Species

Pre-construction 100% survey of project area to confirm no protected/listed species have colonized the work site within the 90 day window prior to construction. Summary of findings memo/report is the deliverable. If listed species are encountered, agency coordination and permitting would be additional service.

4.6 Deliverables

Work to be completed under this section by the Consultant shall require the following items to be delivered and accepted by the County:

- Summary of Species survey
- Water Management District Extension Letter

4.7 Pay Items

Work to be completed under this section by the Consultant shall be paid for under the following pay items as listed on the Activity and Fee Summary:

- Permitting

5.0 Right-of-Way Engineering – NOT APPLICABLE

6.0 Design Survey Services – NOT APPLICABLE

7.0 Geotechnical Services - NOT APPLICABLE

8.0 Railroad Coordination (Limiting Amount)

This project includes construction of sidewalks across two existing railroad crossings. The Consultant shall be responsible for all coordination with Florida Central Railroad (FCEN) or their representative, including preparation of all documentation as necessary to secure the FCEN railroad crossing permit and/or Railroad agreements. The following activities may be necessary:

- Confirmation of railroad criteria may affect the project.
- Coordinate signal interconnects with Railroad.
- Meetings and miscellaneous coordination with Florida Central Railroad and existing utilities within the railroad right-of-way.
- Inclusion of agreement conditions into plans, specifications and/or technical provisions.

Orange County will execute permits and agreements and shall pay any fees associated therewith. It is anticipated Florida Central Railroad will prepare the design of all facilities to be owned by the Railroad.

8.1 Deliverables

- Florida Central Railroad Crossing permit application.

8.2 Pay Items

- Railroad coordination.

9.0 Post Design Services

9.1 Shop Drawing Review

The Consultant shall provide engineering services to complete a shop drawing review for bridge and structural component submittals.

9.2 Construction Administration

The Consultant shall provide engineering services during the construction of the project as requested by the County. The Consultant may be required to attend a Pre-Bid Construction Meeting and the Pre-Construction Conference.

9.3 Modification of Final Construction Plans

Consultant shall update and modify the final Construction Plans as may be necessary during the course of construction. The consultant shall provide signed and sealed copies of the updated plans with all the necessary revision information.

9.4 Pay Items

- Post Design Services

TABLE OF DELIVERABLES

1.0 Administration

<i>Final Design Project Schedule – Paper, Digital File & pdf File</i>	<i>3/1/1 Copies</i>
<i>Construction Time Estimate – Paper, Digital File & pdf File</i>	<i>3/1/1 Copies</i>
<i>Workshop Review Meeting Minutes Paper & pdf file</i>	<i>1/1 Copies</i>

2.0 Public Involvement

<i>Small Group Meeting Materials</i>	<i>As required</i>
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3.0 Design and Plans Preparation

<i>Final Cost/Engineers Estimate – Paper, Digital File & pdf File)</i>	<i>3/1/1 Copies</i>
<i>Design Notes and Computation Book</i>	<i>3 Copies</i>
<i>Quantity Computation Book</i>	<i>3 Copies</i>

3.0 A - Final Construction Plans

<i>Hard Copy – Paper, Half Sized</i>	<i>3 Copies</i>
<i>Hard Copy – Paper, Half Sized (Signed and Sealed)</i>	<i>1 Copies</i>
<i>Digital Files – AutoCAD 2010, Microstation & pdf Files</i>	<i>1 Copy each</i>

4.0 Permitting (Limiting Amount)

<i>Special Permit Documents (signed and sealed surveys). If required</i>	<i>3 Copies</i>
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5.0 Right-of-Way Engineering (NOT APPLICABLE)

6.0 Design Survey Services (NOT APPLICABLE)

7.0 Geotechnical Services (NOT APPLICABLE)

Project: East Bay Street Study Improvements
 For: Sub-Area No. 2
 CIP #: _____
 Purchasing Contract #: _____

EXHIBIT "B"
SUMMARY FEE SHEET - PROJECT - EAST BAY DRAINAGE IMPROVEMENT
 CONTINUING PROFESSIONAL ENGINEERING DESIGN SERVICES
 TASK WORK ORDER NO. _____

Prime Consultant: Matic Engineering, Inc. (Design)

DATE
7-Jul-23

Activity	Senior Engineer		Project Manager		Project Engineer		Senior Designer		CADD Designer		Total		Average Hourly Rate		
	Rate/Hr.:	Hourly Rate	Rate/Hr.:	Hourly Rate	Rate/Hr.:	Hourly Rate	Rate/Hr.:	Hourly Rate	Rate/Hr.:	Hourly Rate	Manhours by Activity	Salary Cost for Activity			
1. Administration	3	\$539.52	21	\$3,854.63	18	\$2,569.24	19	\$2,047.82	8	\$447.52	0	\$0.00	\$9	\$9,558.93	\$138.82
2. Public Information	2	\$389.68	11	\$2,071.83	13	\$1,854.84	8	\$882.24	0	\$0.00	0	\$0.00	34	\$5,148.39	\$151.42
3. Design and Plans Prep.	5	\$898.20	22	\$4,143.28	28	\$3,709.68	23	\$2,478.84	29	\$1,822.28	0	\$0.00	105	\$12,853.34	\$122.41
4. Permitting	11	\$1,878.24	4	\$753.32	12	\$1,712.16	1	\$107.78	2	\$111.88	0	\$0.00	30	\$4,683.38	\$155.45
7. Geotechnical Services	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00
8. Railroad Coordination	3	\$539.52	27	\$5,064.91	20	\$2,853.60	18	\$1,724.48	0	\$0.00	0	\$0.00	66	\$10,202.51	\$184.88
9. Post Design Services	5	\$898.20	31	\$5,938.23	21	\$2,898.23	9	\$648.68	0	\$0.00	0	\$0.00	63	\$10,380.39	\$164.77
	29	\$5,216.36	116	\$21,646.28	110	\$16,694.80	73	\$7,687.84	39	\$2,181.66	0	\$0.00	397	\$52,968.64	\$143.89

TOTAL COST BY ACTIVITY	
1. Administration	\$9,558.93
2. Public Information	\$5,148.39
3. Design and Plans Prep.	\$12,853.34
4. Permitting	\$4,683.38
5. Right-of-Way Engineering	\$ -
6. Design Surveys	\$ -
7. Geotechnical Services	\$ -
8. Railroad Coordination	\$10,202.51
9. Post Design Services	\$10,380.39
10. Direct Expenses	\$ 934.80
TOTAL CONTRACT FEE	\$ 53,740.84

Total Contract Fee Computation	
Total Activity Raw Labor Costs	\$22,411.37
(a) Multiplier @ 2.79	
Subtotal (Overhead & Profit - Salary Related Costs)	\$22,411.37
(b) MEI (R/W Survey & Mapping, SUE)	\$ -
(c) Direct Expenses	\$ 934.80
(d) Subcontracting Items (Lump Sum Items)	\$ -
Subtotal (Subconsulting Lump Sum Costs)	\$ -
TOTAL LUMP SUM FEE	\$23,346.17
(e) Post Design Services	\$10,380.39
(f) Public Involvement	\$5,148.39
(g) Permitting	\$4,683.38
(h) Railroad Coordination	\$10,202.51
(i)	\$ -
TOTAL LIMITING AMOUNT FEES	\$30,394.87
TOTAL PROJECT FEE	\$53,740.84

Project: East Bay Street Study Improvements
 For: Sub-Area No. 2
 CIP #: C
 Purchasing Contract #:

EXHIBIT "B" - PROPOSAL
ORANGE COUNTY PUBLIC WORKS DEPARTMENT
ACTIVITY AND FEE SUMMARY

Consultant: Metric Engineering, Inc.

Date: 7-Jul-23

ACTIVITY	PAY ITEM	Metric	SouthEastern							TOTALS
1. Administration	Notice to Proceed Meeting	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Project Status Meetings	\$1,669.50	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,669.50
	Final Design Project Schedule	\$432.60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 432.60
	Utility Coordination	\$6,133.83	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,133.83
	Cost Estimates for Final Submittal	\$1,322.10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,322.10
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3. Design and Plans Preparation	Drainage Calculations	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Construction Plans	\$ 8,483.20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,483.20
	Final Construction Plans	\$ 987.68	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 987.68
	Project Design Notes and Computations Book	\$ 2,570.97	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,570.97
	Project Quantity Computation Book	\$ 811.79	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 811.79
	Technical and Special Provisions	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5. Right-of-Way Engineering		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7. Geotechnical Services		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8. Rail Road Crossing Agreements		\$10,202.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,202.51
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SUB-TOTALS (LUMP SUM COSTS)		\$ 32,613.89	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 32,613.89
2. Public Involvement		\$5,149.39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,149.39
4. Permitting	Water Management District Permit Ext. T & E Species Survey	\$4,863.38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,863.38
6. Design Survey Services		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9. Post Design Services (Limiting Amount)	Post Design Services	\$10,380.39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,380.39
Direct Expenses		\$ 934.80	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 934.80
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SUB-TOTALS (LIMITING AMOUNTS)		\$ 21,126.96	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,126.96
PROJECT TOTALS		\$ 63,740.84	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 63,740.84

Project: East Bay Street Study Improvements
 For: Sub-Area No. 2
 Date: 7-Jul-23
 CIP #: C.D. No. 93-53
 Purchasing _____
 Contract #: _____

FINAL DESIGN TASK LIST (METRIC ENGINEERING, INC.)

Activity: Final Design Sub-Activity: 1.0 Administration

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Senior Engineer		Project Manager		Project Engineer		Senior Designer		CADD Designer		Total Salary Costs	Total Hours	Average Hourly Rate	
						\$ 179.84	(Rate)	\$ 168.33	(Rate)	\$ 142.68	(Rate)	\$ 107.79	(Rate)	\$ 56.94	(Rate)				
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
1.1 Notice to Proceed Meeting																			
a. Attend NTP Meeting	EA				0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0.0		
b. Meeting Minutes	EA				0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0.0		
c. File Setup	LS				0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0.0		
Total					0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0.0		
1.2 Project Status Meetings																			
a. Prepare Agenda	EA	2	0.5		1.0		\$0.00	1.0	\$188.33		\$0.00		\$0.00		\$0.00	\$188.33	1.0	\$188.33	
b. Attend Meetings	EA	2	2.0		4.0		\$0.00	4	\$753.32	0.0	\$0.00		\$0.00		\$0.00	\$753.32	4.0	\$188.33	
c. Meeting Minutes	EA	2	0.5		1.0		\$0.00	1.0	\$188.33		\$0.00		\$0.00		\$0.00	\$188.33	1.0	\$188.33	
Total					6.0	0	\$0.00	6	\$1,129.98	0	\$0.00	0	\$0.00	0	\$0.00	\$1,129.98	6.0	\$188.33	
1.4 Final Design Project Schedule																			
a. Prepare Schedule	LS	1	3		3		\$0.00	2	\$378.66		\$0.00		\$0.00	1	\$55.94	\$0.00	\$432.60	3.0	\$144.20
Total					3	0	\$0.00	2	\$378.66	0	\$0.00	0	\$0.00	1	\$55.94	\$0.00	\$432.60	3.0	\$144.20
1.5 Cost Estimates for Final Submittal																			
a. Prepare Cost Estimates	EA	1	6		6		\$0.00		\$0.00	3	\$428.04	3	\$323.34		\$0.00	\$0.00	\$751.38	6.0	\$125.23
b. Estimate Const Duration	EA	1	4		4		\$0.00		\$0.00	4	\$570.72		\$0.00		\$0.00	\$0.00	\$570.72	4.0	\$142.68
Total					10	0	\$0.00	0	\$0.00	7	\$998.76	3	\$323.34	0	\$0.00	\$0.00	\$1,322.10	10.0	\$132.21
1.6 Utility Coordination																			
a. Utility Plans Submittal	EA	8	1		8		\$0.00		\$0.00	2	\$285.36	4	\$431.12	2	\$111.88	\$0.00	\$828.56	8.0	\$103.55
b. File Maintenance	LS	1	6		6		\$0.00		\$0.00		\$0.00	4	\$223.76		\$0.00	\$0.00	\$654.88	8.0	\$81.86
c. Utility Follow-up	EA	8	0.5		4.0		\$0.00		\$0.00	1	\$142.88	2.0	\$215.56	1	\$55.94	\$0.00	\$414.18	4.0	\$103.55
d. City of Winter Garden Coord.	LS	1	16		16		\$0.00	6	\$1,129.98	6	\$856.08	4	\$431.12	0	\$0.00	\$0.00	\$2,417.18	16.0	\$151.07
e. Utility Conflict Matrix Update	LS	1	8		8		\$0.00	4	\$753.32	2	\$285.36	2	\$215.56	0	\$0.00	\$0.00	\$1,254.24	8.0	\$156.78
Total					44	0	\$0.00	10	\$1,883.30	11	\$1,569.48	16	\$1,724.48	7	\$391.58	\$0.00	\$5,668.84	44.0	\$128.56
SUBTOTAL 1					63	0	\$ -	18	\$ 3,389.94	19	\$ 2,668.24	19	\$ 2,047.82	8	\$ 447.82	\$ -	\$ 8,453.82	63.0	\$134.18
Quality Control	9%-10% set at 5%				3		\$539.52		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$539.52	3.0	\$179.84
Supervision	9%-10% set at 5%				3		\$0.00		\$564.99		\$0.00		\$0.00		\$0.00	\$0.00	\$564.99	3.0	\$188.33
TOTAL 1					3		\$ 539.52	21	\$ 3,954.93	18	\$ 2,668.24	19	\$ 2,047.82	8	\$ 447.82	\$ -	\$ 9,886.03	69.0	\$138.62

Project: East Bay Street Study Improvements
 For: Sub-Area No. 2
 Date: 7-Jul-23
 CIP #: C.D. No. 83-53
 Purchasing Contract #: 0

FINAL DESIGN TASK LIST (METRIC ENGINEERING, INC.) - Limiting Amount

Activity: Final Design Sub-Activity: 2.0 Public Information

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Senior Engineer		Project Manager		Project Engineer		Senior Designer		CADD Designer		Total Salary Costs	Total Hours	Average Hourly Rate	Remarks
						Rate	Cost	Rate	Cost	Rate	Cost	Rate	Cost	Rate	Cost				
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
2.1 Public Information Plan																			
a. Prepare Draft PIP	EA				0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0		#DIV/0!
b. Finalize PIP	EA				0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0		#DIV/0!
Total					0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0		#DIV/0!
2.2 Public Information Meetings & Materials																			
a. Meeting Preparation	EA	1	4		4	\$0.00	\$0.00	4	\$570.72		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$570.72	4		\$142.68
b. Attend Meetings	EA				0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0		#DIV/0!
c. Meeting Minutes	EA				2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0		#DIV/0!
d. Respond to Comments	EA	1	2		2	\$0.00	\$0.00	1	\$168.33	1	\$142.68	\$0.00	\$0.00	\$0.00	\$0.00	\$311.01	2		\$155.51
e. Meeting Materials (Boards)	LS	1	24		24	\$0.00	\$0.00	8	\$1,506.64	8	\$1,141.44	8	\$862.24	\$0.00	\$0.00	\$3,410.32	24		\$141.68
Total					30	\$0.00	\$0.00	13	\$1,834.97	13	\$1,834.94	8	\$862.24	0	\$0.00	\$3,410.32	30		\$113.68
2.3 Web Page Creation/Maintenance																			
a. Web Page Format	EA				0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0		#DIV/0!
b. Update Web Page	EA				0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0		#DIV/0!
Total					0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0		#DIV/0!
2.4 Mailing List																			
a. Develop Mailing List	EA				0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0		#DIV/0!
Total					0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0		#DIV/0!
2.5 Newsletter																			
a. Newsletter development	EA				0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0		#DIV/0!
Total					0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0		#DIV/0!
SUBTOTAL 2					30	\$0.00	\$0.00	13	\$1,834.97	13	\$1,834.94	8	\$862.24	0	\$0.00	\$3,410.32	30		\$113.68
Quality Control	5%-10% set at 5%				2	\$359.88	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$359.88	2		\$179.94
Supervision	5%-10% set at 5%				2	\$0.00	\$0.00	2	\$378.66	0	\$0.00	0	\$0.00	0	\$0.00	\$378.66	2		\$189.33
TOTAL 2					2	\$359.88	\$0.00	2	\$378.66	0	\$0.00	0	\$0.00	0	\$0.00	\$738.54	4		\$184.64

Project: East Bay Street Study Improvements
 For: Sub-Area No. 2
 Date: 7-2-23
 CIP #: C.D. No. 93-53
 Purchasing Contract #: 0

FINAL DESIGN TASK LIST (METRIC ENGINEERING, INC.)
 Activity: Final Design Sub-Activity: 3.0 Design and Plans Preparation

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Senior Engineer		Project Manager		Project Engineer		Senior Designer		CADD Designer		Total Salary Costs	Total Hours	Average Hourly Rate		
						\$	(Rate)	\$	(Rate)	\$	(Rate)	\$	(Rate)	\$	(Rate)				Yes	Cost
						179.84		164.33		142.68		127.78		85.84						
3.1.1 Design Analysis																				
a. Continuation Coordination	LS	1	10	10		\$0.00	\$	\$1,800.04	\$	\$856.08		\$0.00	2	\$111.88	\$0.00	\$2,474.60	16	\$154.66		
						\$0.00	\$	\$0.00	\$	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	0	\$0.00		
						\$0.00	\$	\$0.00	\$	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	0	\$0.00		
Total				10	0	\$0.00	\$	\$1,800.04	\$	\$856.08	0	\$0.00	2	\$111.88	0	\$0.00	\$2,474.60	16	\$154.66	
3.1.2 Design Doc., Comp. Book, Quantities																				
a. Design Notes & Comp.	LS	1	3	3		\$0.00	\$	\$168.33	\$	\$0.00	2	\$215.58	\$0.00	\$0.00	\$0.00	\$403.89	3	\$134.62		
b. Quantity Computations	LS	1	0	0		\$0.00	\$	\$564.99	\$	\$0.00	3	\$323.34	\$0.00	\$0.00	\$0.00	\$888.33	0	\$148.06		
Total				0	0	\$0.00	\$	\$723.32	\$	\$0.00	5	\$538.90	0	\$0.00	\$0.00	\$1,292.22	0	\$143.53		
3.2 Drainage Design																				
a. Drainage Analysis	LS	1		0		\$0.00	\$	\$0.00	\$	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00		
Total				0	0	\$0.00	\$	\$0.00	\$	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00		
3.3 Structures																				
a. Bridge Design	LS			0		\$0.00	\$	\$0.00	\$	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00		
Total				0	0	\$0.00	\$	\$0.00	\$	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00		

Project: East Bay Street Study Improvements
 File: Sub-Area No. 2
 Date: 7/26/23
 CIP #: C-D, No. 93-53
 Purchasing Contract #: 0

FINAL DESIGN TASK LIST (METRIC ENGINEERING, INC.)
 Activity: Final Design Sub-Activity: 3.0 Design and Plans Preparation

Task	Rank of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Senior Engineer		Project Manager		Project Engineer		Senior Designer		CAD Designer		Total Salary Costs	Total Hours	Average Hourly Rate	
						\$ 179.84	(Rate)	\$ 188.53	(Rate)	\$ 142.60	(Rate)	\$ 107.78	(Rate)	\$ 58.84	(Rate)				
						hrs	Cost	hrs	Cost	hrs	Cost	hrs	Cost	hrs	Cost				
3.4 Construction Plans																			
3.4.1 a. Cover Sheet	Sheet	1	1	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	1	\$55.94	\$0.00	\$55.94	1	\$55.94			
3.4.2 b. General Notes	Sheet	1	3	1	3	\$0.00	\$0.00	\$142.60	1	\$142.60	1	\$107.78	\$0.00	\$250.38	3	\$84.45			
3.4.3 c. Standard Drawings and Details	Sheet	1	3	1	3	\$0.00	\$0.00	\$0.00	1	\$107.78	1	\$58.84	\$0.00	\$166.62	3	\$55.54			
3.4.4 d. Summary of Pay Items	Sheet	1	2	1	2	\$0.00	\$188.53	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$188.53	2	\$94.26			
3.4.5 e. Drainage Map	Sheet	0	0	0	0	\$0.00	\$0.00	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00			
3.4.6 f. Typical Sections	Sheet	0	0	0	0	\$0.00	\$0.00	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00			
3.4.7 g. Summary of Quantities	Sheet	2	2	2	4	\$0.00	\$188.53	\$0.00	1	\$142.60	1	\$107.78	\$0.00	\$438.91	4	\$109.72			
3.4.8 h. Summary of Drainage Structures	Sheet	1	2	1	2	\$0.00	\$0.00	\$0.00	1	\$142.60	1	\$107.78	\$0.00	\$250.38	2	\$125.19			
3.4.9 i. Survey Control Sheets	Sheet	1	1	0	0	\$0.00	\$0.00	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00			
3.4.10 j. Plan and Profile Sheets	Sheet	9	1	9	9	\$0.00	\$188.53	2	\$282.36	2	\$215.56	4	\$275.12	\$0.00	\$856.57	9	\$95.17		
3.4.11 k. Driveway Profiles (MOVED TO K-SECT)	EA	0	0	0	0	\$0.00	\$0.00	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00			
3.4.12 l. Intersection Details	Sheet	0	0	0	0	\$0.00	\$0.00	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00			
3.4.13 m. Drainage Structures	EA	70	0.11	8	7	\$0.00	\$0.00	2	\$285.36	2	\$215.56	3	\$376.24	\$0.00	\$877.22	7	\$125.31		
3.4.14 n. Box Culverts	Sheet	0	0	0	0	\$0.00	\$0.00	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00			
3.4.15 o. Flood Details	Sheet	2	3	2	6	\$0.00	\$0.00	3	\$427.84	3	\$323.34	\$0.00	\$751.18	6	\$125.19				
3.4.16 p. Flood Plans Comp Area Details	Sheet	0	0	0	0	\$0.00	\$0.00	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00			
3.4.17 q. Mitigation Plans	Sheet	0	0	0	0	\$0.00	\$0.00	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00			
3.4.18 r. Geotechnical Soil Survey	Sheet	1	0	0	0	\$0.00	\$0.00	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00			
3.4.19 s. Cross Sections & Driveway Profiles	EA	90	0.050	28	5	\$0.00	\$188.53	1	\$142.60	1	\$107.78	2	\$116.62	\$0.00	\$550.53	5	\$110.10		
3.4.20 t. Erosion Control Plans	Sheet	2	2	2	4	\$0.00	\$0.00	2	\$285.36	\$0.00	\$0.00	2	\$116.62	\$0.00	\$401.98	4	\$100.49		
3.4.21 u. Maintenance of Traffic Plans	Sheet	1	4	1	4	\$0.00	\$0.00	2	\$285.36	\$0.00	\$0.00	2	\$116.62	\$0.00	\$401.98	4	\$100.49		
3.4.22 v. Utility Relocation Plans	LS	1	12	12	12	\$0.00	\$0.00	4	\$511.52	3	\$371.34	6	\$467.88	\$0.00	\$1,350.64	12	\$112.55		
3.4.23 w. Signing and Plan Marking Plans	LS	4	1	4	4	\$0.00	\$0.00	1	\$142.60	\$0.00	\$0.00	3	\$350.52	\$0.00	\$493.12	4	\$123.28		
3.4.24 x. Signposting Plans	LS	0	0	0	0	\$0.00	\$0.00	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00			
3.4.25 aa. Landmarks Plans	Sheet	0	0	0	0	\$0.00	\$0.00	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00			
3.4.26 ab. Structure Plans	Sheet	0	0	0	0	\$0.00	\$0.00	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00			
Total		99	65	0	65	\$0.00	\$793.32	20	\$2,853.85	15	\$1,618.70	27	\$1,618.38	0	\$0.00	\$6,740.00	69	\$102.23	
3.5 Progress Review Submittals																			
a. 30% Submittal	LS	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00			
b. 50% Submittal	LS	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00			
c. 80% Submittal	LS	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00			
d. 100% Submittal	LS	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00			
e. Final Submittal	LS	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00			
Total		0	0	0	0	\$0.00	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	\$0.00	
3.6 Specifications																			
a. Tech & Special Provisions	LS	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00			
Total		0	0	0	0	\$0.00	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	\$0.00	
3.7 Electronic Design & Topography																			
a. Final Design & Topo Files	LS	1	4	4	4	\$0.00	\$188.53	\$0.00	3	\$323.34	\$0.00	\$0.00	\$0.00	\$511.87	4	\$127.96			
Total		1	4	4	4	\$0.00	\$188.53	0	\$0.00	3	\$323.34	0	\$0.00	\$0.00	\$511.87	4	\$127.46		
SUBTOTAL 3		100	69	0	69	\$0.00	\$1,001.85	20	\$3,706.65	18	\$2,478.04	27	\$1,618.38	0	\$0.00	\$7,741.87	73	\$106.19	
Quality Control	5%-10% set of 5%	5	8	40	40	\$0.00	\$323.34	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$323.34	40	\$8.07			
Supervision	5%-10% set of 5%	5	8	40	40	\$0.00	\$323.34	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$323.34	40	\$8.07			
TOTAL 3		110	85	44	44	\$0.00	\$1,325.19	20	\$3,706.65	18	\$2,478.04	27	\$1,618.38	0	\$0.00	\$8,067.04	113	\$71.36	

Project: East Bay Street Study Improvements
 For: Sub-Area No. 2
 Date: 7-23-23
 CIP #: C.D. No. 93-53
 Purchasing Contract #: 0

FINAL DESIGN TASK LIST (METRIC ENGINEERING, INC.) - Limiting Amount

Activity: Final Design Sub-Activity: 4.5 Permitting

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Senior Engineer		Project Manager		Project Engineer		Senior Designer		CAD Designer		Total Salary Costs	Total Hours	Average Hourly Rate	
						\$ / Hr	Cost	\$ / Hr	Cost	\$ / Hr	Cost	\$ / Hr	Cost	\$ / Hr	Cost				
4.1 Agency Coordination																			
a. Permit Extension	LS	1	8	8		\$ 179.84	1	\$ 168.33	2	\$ 265.35	1	\$ 107.78	2	\$ 111.88	\$ 0.00	\$ 653.35	0	\$ 1115.50	
Total				8	0	\$ 0.00	1	\$ 168.33	2	\$ 265.35	1	\$ 107.78	2	\$ 111.88	\$ 0.00	\$ 653.35	0	\$ 1115.50	
4.2 Threaten and Endangerment Ejecta																			
a. Field Reviews	LS	1	22	22	10	\$ 179.40	2	\$ 179.66	10	\$ 1,428.80	0	\$ 0.00	0	\$ 0.00	\$ 0.00	\$ 3,801.86	22	\$ 1457.71	
Total				22	10	\$ 179.40	2	\$ 179.66	10	\$ 1,428.80	0	\$ 0.00	0	\$ 0.00	\$ 0.00	\$ 3,801.86	22	\$ 1457.71	
SUBTOTAL 4					30	10	\$ 1,798.40	3	\$ 684.99	12	\$ 1,712.16	1	\$ 107.78	2	\$ 111.88	\$ 0.00	\$ 4,296.21	30	\$ 1431.40
Quality Control	5% - 10% bid at 5%			1	1	\$ 179.64		\$ 0.00	0	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 179.64	1	\$ 179.64	
Supervision	5% - 10% bid at 5%			1	1	\$ 0.00		\$ 168.33	0	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 168.33	1	\$ 168.33	
TOTAL 4					31	\$ 1,878.04	4	\$ 753.32	12	\$ 1,712.16	1	\$ 107.78	2	\$ 111.88	\$ 0.00	\$ 4,663.34	31	\$ 1504.61	

Project: East Bay Street Study Improvements
 For: Sub-Area No. 2
 Date: 7-Jul-23
 CIP #: C.D. No. 93-53
 Purchasing: 0
 Contract #:

FINAL DESIGN TASK LIST (METRIC ENGINEERING, INC.)

Activity: Final Design Sub-Activity: 8.0 Railroad Coordination

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Senior Engineer		Project Manager		Project Engineer		Senior Designer		CADD Designer		Total Salary Costs	Total Hours	Average Hourly Rate		
						\$ 179.64	(Rate)	\$ 189.33	(Rate)	\$ 142.68	(Rate)	\$ 107.79	(Rate)	\$ 65.94	(Rate)					
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost					
8.1 Railroad Coordination																				
b. Meetings/Coordination	LS	1	24		24		\$0.00	12	\$2,259.96	8	\$1,141.44	4	\$431.12		\$0.00		\$0.00	\$3,832.52	24	\$159.69
b. Studies	EA	1	12		0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	\$0.00
c. Permitting	EA	1	12		12		\$0.00	4	\$763.32	4	\$570.72	4	\$431.12		\$0.00		\$0.00	\$1,765.16	12	\$146.26
d. Plans/Notes/Specifications	EA	2	12		24		\$0.00	8	\$1,506.04	8	\$1,141.44	8	\$462.24		\$0.00		\$0.00	\$3,510.32	24	\$146.26
Total					60	0	\$0.00	24	\$4,619.92	20	\$2,853.60	16	\$1,724.48	0	\$0.00	0	\$0.00	\$9,098.00	60	\$161.63
SUBTOTAL \$					60	0	\$0.00	24	\$4,619.92	20	\$2,853.60	16	\$1,724.48	0	\$0.00	0	\$0.00	\$9,098.00	60	\$161.63
Quality Control	6%-10% cost at 6%				3	3	\$538.62		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00	\$538.62	3	\$179.54
Supervision	6%-10% cost at 6%				3	0	\$0.00	3	\$594.99	0	\$0.00		\$0.00		\$0.00		\$0.00	\$594.99	3	\$198.33
TOTAL \$					3	3	\$538.62	27	\$5,064.91	20	\$2,853.60	16	\$1,724.48	0	\$0.00	0	\$0.00	\$10,302.51	66	\$164.88

Project: East Bay Street Study Improvements
 For: Sub-Area No. 2
 Date: 7-Jul-23
 CIP #: C.D. No. 93-53
 Purchasing: 0
 Contract #: 0

FINAL DESIGN TASK LIST (METRIC ENGINEERING, INC.) - Limiting Amount

Activity: Final Design Sub-Activity: 9.0 Post Design Services

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Senior Engineer		Project Manager		Project Engineer		Senior Designer		CADD Designer		Total Salary Costs	Total Hours	Average Hourly Rate		
						\$	(Rate)	\$	(Rate)	\$	(Rate)	\$	(Rate)	\$	(Rate)					
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost					
9.1 Shop Drawing Review																				
a. Shop Drawing Review	LS	1	8		8		\$0.00	2	\$376.66	6	\$856.08		\$0.00		\$0.00	\$1,232.74	8	\$154.09		
b. Address Request for Information	EA	11	1		11		\$0.00	6	\$1,129.88	3	\$428.04	2	\$215.56		\$0.00	\$1,773.58	11	\$161.23		
					0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
					0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
					0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
					0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
					0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
					0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
					0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
					0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
					0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
					0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
					0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
Total					19	0	\$0.00	8	\$1,506.64	9	\$1,384.12	2	\$215.56	0	\$0.00	0	\$0.00	\$3,006.32	19	\$168.23
9.2 Construction Administration																				
a. Pre-Bid Meeting Preparation	EA				0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
b. Attend Pre-Bid Meeting	EA	1	4		4		\$0.00	2	\$376.66	2	\$285.38		\$0.00		\$0.00	\$662.02	4	\$165.51		
c. Pre-Bid Meeting Minutes	EA				0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
d. Respond to Comments	EA	1	8		8		\$0.00	4	\$753.32	4	\$570.72		\$0.00		\$0.00	\$1,324.04	8	\$165.51		
e. Pre-Const Meeting Preparation	EA				0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
f. Attend Pre-Const Meeting	EA	1	4		4		\$0.00	4	\$753.32		\$0.00		\$0.00		\$0.00	\$753.32	4	\$188.33		
g. Pre-Const Meeting Minutes	EA				0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
h. Construction Administration	LS				0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
Total					16	0	\$0.00	10	\$1,883.30	6	\$856.08	0	\$0.00	0	\$0.00	0	\$0.00	\$2,739.38	16	\$171.21
9.3 Modification of Final Construction Plans																				
a. Meetings	EA	3	4		12		\$0.00	6	\$1,129.88	6	\$856.08		\$0.00		\$0.00	\$1,986.00	12	\$165.51		
b. Plans Review	LS				0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
c. Modifications to Plans	LS	1	10		10	2	\$359.68	4	\$753.32		\$0.00	4	\$431.12		\$0.00	\$1,544.12	10	\$184.41		
d. Plans Submittal	EA				0		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	0	#DIV/0!		
Total					22	2	\$359.68	10	\$1,883.30	6	\$856.08	4	\$431.12	0	\$0.00	0	\$0.00	\$3,530.18	22	\$160.46
SUBTOTAL 9					67	2	\$359.68	28	\$5,273.24	21	\$2,996.28	6	\$846.68	0	\$0.00	0	\$0.00	\$8,276.88	67	490
Quality Control	8%-10%	set at 5%			3	2	\$359.68	1	\$188.33		\$0.00		\$0.00		\$0.00	\$648.01	3	\$182.67		
Supervision	8%-10%	set at 5%			3	1	\$179.84	2	\$376.66		\$0.00		\$0.00		\$0.00	\$566.50	3	\$185.50		
TOTAL 9					6		\$899.20	31	\$5,838.23	21	\$2,996.28	6	\$846.68	0	\$0.00	0	\$0.00	\$10,380.39	63	\$164.77

Metric Engineering, Inc.

FINAL ENGINEERING DESIGN SERVICES
EAST BAY STREET DRAINAGE IMPROVEMENTS
SUB-AREA NO. 2

DIRECT REIMBURSABLES

REPRODUCTION

	#	ITEM		CHARGE	PER	AMOUNT
(8 1/2 X 11 COPIES)		SHEETS	X	\$ 0.06	SHEET	\$ -
(8 1/2 X 14 COPIES)(COLOR)	440	SHEETS	X	\$ 0.14	SHEET	\$ 61.60
(11 X 17 COPIES)		SHEETS	X	\$ 0.10	SHEET	\$ -
(24 X 36 COPIES)	-	SHEETS	X	\$ 1.20	SHEET	\$ -
(11 X 17 MYLARS)	-	SHEETS	X	\$ 3.33	SHEET	\$ -
(24 X 36 MYLARS)	-	SHEETS	X	\$ 6.90	SHEET	\$ -

SHIPPING & TELEPHONE

	MONTHS	X	\$ 35.00	MONTH	\$ -
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PUBLIC INVOLVEMENT

POSTAGE	440	NOTICES	X	\$ 0.63	LETTER	\$ 277.20
DISPLAY BOARDS	2	BOARDS	X	\$ 48.00	BOARD	\$ 96.00
FACILITY USAGE FEE	1	RENTAL	X	\$ 500.00	RENTAL	\$ 500.00

MISCELLANEOUS

Laminating (8 1/2 X 11)	-	SHEETS	X	\$ 1.98	SHEET	\$ -
Laminating (11 X 17)	-	SHEETS	X	\$ 3.15	SHEET	\$ -
DISKETTES	-	DISKETTES	X	\$ 0.40	DISKETTE	\$ -
COLOR PLOTS (24X 36)	-	PLOTS	X	\$ 36.00	PLOT	\$ -

TOTAL

\$ 934.80