

**COUNCIL ACTION FORM**

**SUBJECT: 2017-2021 FEDERAL AIRPORT IMPROVEMENTS PROGRAM**

**BACKGROUND:**

As an annual requirement of the Federal Aviation Administration (FAA), the City submits an Airport Improvement Program (AIP) to the FAA showing the next five Federal Fiscal Years of airport projects. The information contained in the Federal AIP is then copied into the Airport Improvements Program of the City's own Capital Improvement Plan (CIP) to ensure the obligation of local matching funds required for each project. A copy of this year's FAA submittal is attached.

The proposed AIP 5-year program project list is as follows:

FFY = Federal Fiscal Year

| <b>Project Description</b>             | <b>FFY 2017</b>  | <b>FFY 2018</b> | <b>FFY 2019</b>  | <b>FFY 2020</b>  | <b>FFY 2021</b> |
|--|------------------|-----------------|------------------|------------------|-----------------|
| Masterplan Update                      | \$166,000        |                 |                  |                  |                 |
| Electrical Vault & Terminal Demolition |                  |                 | \$396,000        |                  |                 |
| Runway 01/19 Justification Report      |                  |                 | \$ 14,000        |                  |                 |
| Environmental Assessment, RW 01/19     |                  |                 |                  | \$100,000        |                 |
| <b>Annual Totals</b>                   | <b>\$166,000</b> | <b>\$ -</b>     | <b>\$410,000</b> | <b>\$100,000</b> | <b>\$ -</b>     |
| Funding Source: Federal / State Funds  | \$149,400        |                 | \$356,400        | \$ 90,000        |                 |
| Local Funds                            | \$ 16,600        |                 | \$ 53,600        | \$ 10,000        |                 |

The remaining projects are in the Long Range Needs Assessment (LRNA), which are those remaining steps necessary to extend the main Runway 01/19 to a length of approximately 8,000 feet. This will include land acquisition (2022), grading (2023), road realignment (2024), and paving (2025).

**ALTERNATIVES:**

1. Approve the 2017-2021 Federal Airport Improvements Program.
2. Approve the 2017-2021 Federal Airport Improvements Program with identified changes.

**MANAGER’S RECOMMENDED ACTION:**

Approving this annual update to the 5-year Federal Airport Improvement Program will ensure that those federal dollars programmed for the Ames Municipal Airport will be available in the respective year of the City’s Capital Improvement Plan. Projects shown represent improvements necessary to meet current and future demands of the Ames Municipal Airport.

Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, thereby approving the 2017-2021 Federal Airport Improvements Program.

## FEDERAL AIRPORT IMPROVEMENT PROGRAM (AIP)

### PRE-APPLICATION FFY 2017

### CHECKLIST

**Please attach the following documents with your application:**

- Sponsor Identification Sheet for the Airport
- CIP Data Sheet (one for **each** project listed in the first 3 years of the CIP) and detailed cost estimate for each data sheet.
- 5-year Capital Improvement Program (CIP)
- Long Range Needs Assessment
- Verification of an updated ALP (when applying for new construction of buildings or airfield expansion)
- Verification of completed environmental processing in accordance with NEPA.
- Verification of completed land acquisition or signed purchase agreement.
- Verification of pavement maintenance program (when applying for pavement preservation or reconstruction)
- If requesting Federal assistance for snow removal equipment, please include an inventory of the existing equipment and calculations based on Chapters 4 & 5 of the Airport Winter Safety and Operations, Advisory Circular (AC) 150/5200-30 and the Airport Snow and Ice Control Equipment, AC 150/5220-20 showing the minimum equipment needed, along with the ACIP Data Sheet. Include a copy of a completed FAA Snow Plow Design Spreadsheet.
- If requesting Federal assistance for general aviation apron expansion, include a copy of a completed GA Apron Design spreadsheet.
- If requesting pavement reconstruction, submit an engineering report showing the need for the reconstruction as part of the CIP justification.
- For revenue-producing facilities (i.e., fueling facilities and hangars), please submit:
  - 1) a statement that airside development needs are met or include a financial plan to fund airside needs over the next 3 years;
  - 2) a statement that runway approach surfaces are clear of obstructions (the FAA Airport 5010 should show at least a 20:1 clear approach), and;
  - 3) justification for the project.
- SAM (System for Award Management) registration is up-to-date. ([www.sam.gov](http://www.sam.gov))

Please scan and e-mail with support documents identified in checklist to [shane.wright@dot.iowa.gov](mailto:shane.wright@dot.iowa.gov).

Iowa Department of Transportation  
Office of Aviation  
800 Lincoln Way  
Ames, IA 50010

Attn.: Program Manager  
E-mail: [shane.wright@dot.iowa.gov](mailto:shane.wright@dot.iowa.gov)  
FAX: 515-233-7983  
515-239-1048



**FEDERAL AIRPORT IMPROVEMENT PROGRAM (AIP)  
PRE-APPLICATION FFY 2017  
AIRPORT SPONSOR IDENTIFICATION**

Airport Name: Ames Municipal Airport

Airport Sponsor Name: City of Ames, Iowa

Contact Person: Damion Pregitzer Title: Traffic Engineer

Complete Mailing Address: 515 Clark Avenue

|                     |                      |                         |                                    |
|---------------------|----------------------|-------------------------|------------------------------------|
| <u>Ames</u>         | <u>IA</u>            | <u>50010</u>            | Daytime Phone: <u>515-239-5275</u> |
| <small>City</small> | <small>State</small> | <small>ZIP Code</small> |                                    |

E-mail Address: dpregitzer@city.ames.ia.us FAX Number: 515-239-5404

U.S. Congressional District Number: Iowa 4th District

Please scan and e-mail with support documents identified in checklist to [shane.wright@dot.iowa.gov](mailto:shane.wright@dot.iowa.gov).

Iowa Department of Transportation  
Office of Aviation  
800 Lincoln Way  
Ames, IA 50010

Attn.: Program Manager  
E-mail: [shane.wright@dot.iowa.gov](mailto:shane.wright@dot.iowa.gov)  
FAX: 515-233-7983  
515-239-1048

## FIVE-YEAR AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP)

Airport Name: Ames Municipal Airport

Telephone: 515-239-5275

Prepared By: Damion Pregitzer

E-mail Address: dpregitzer@city.ames.ia.us

Date Prepared: October 2015

Date Approved: \_\_\_\_\_

| Project Description                    | Funding Source | FY 2017              | FY 2018   | FY 2019              | FY 2020              | FY 2021   |
|--|----------------|----------------------|-----------|----------------------|----------------------|-----------|
| Masterplan                             | Federal        | \$ 149,400.00        | \$        | \$                   | \$                   | \$        |
|  | State          | \$                   | \$        | \$                   | \$                   | \$        |
|  | Local          | \$ 16,600.00         | \$        | \$                   | \$                   | \$        |
|  | <b>Total</b>   | <b>\$ 166,000.00</b> | <b>\$</b> | <b>\$</b>            | <b>\$</b>            | <b>\$</b> |
| Electrical Vault & Terminal Demolition | Federal        | \$                   | \$        | \$ 356,400.00        | \$                   | \$        |
|  | State          | \$                   | \$        | \$                   | \$                   | \$        |
|  | Local          | \$                   | \$        | \$ 39,600.00         | \$                   | \$        |
|  | <b>Total</b>   | <b>\$</b>            | <b>\$</b> | <b>\$ 396,000.00</b> | <b>\$</b>            | <b>\$</b> |
| Runway Justification Report            | Federal        | \$                   | \$        | \$                   | \$                   | \$        |
|  | State          | \$                   | \$        | \$                   | \$                   | \$        |
|  | Local          | \$                   | \$        | \$ 14,000.00         | \$                   | \$        |
|  | <b>Total</b>   | <b>\$</b>            | <b>\$</b> | <b>\$ 14,000.00</b>  | <b>\$</b>            | <b>\$</b> |
| Environmental Assessment               | Federal        | \$                   | \$        | \$                   | \$ 90,000.00         | \$        |
|  | State          | \$                   | \$        | \$                   | \$                   | \$        |
|  | Local          | \$                   | \$        | \$                   | \$ 10,000.00         | \$        |
|  | <b>Total</b>   | <b>\$</b>            | <b>\$</b> | <b>\$</b>            | <b>\$ 100,000.00</b> | <b>\$</b> |
|  | Federal        | \$                   | \$        | \$                   | \$                   | \$        |
|  | State          | \$                   | \$        | \$                   | \$                   | \$        |
|  | Local          | \$                   | \$        | \$                   | \$                   | \$        |
|  | <b>Total</b>   | <b>\$</b>            | <b>\$</b> | <b>\$</b>            | <b>\$</b>            | <b>\$</b> |
|  | Federal        | \$                   | \$        | \$                   | \$                   | \$        |
|  | State          | \$                   | \$        | \$                   | \$                   | \$        |
|  | Local          | \$                   | \$        | \$                   | \$                   | \$        |
|  | <b>Total</b>   | <b>\$</b>            | <b>\$</b> | <b>\$</b>            | <b>\$</b>            | <b>\$</b> |

## AIRPORT LONG RANGE NEEDS ASSESSMENT

FFY 2021 – FFY 2025

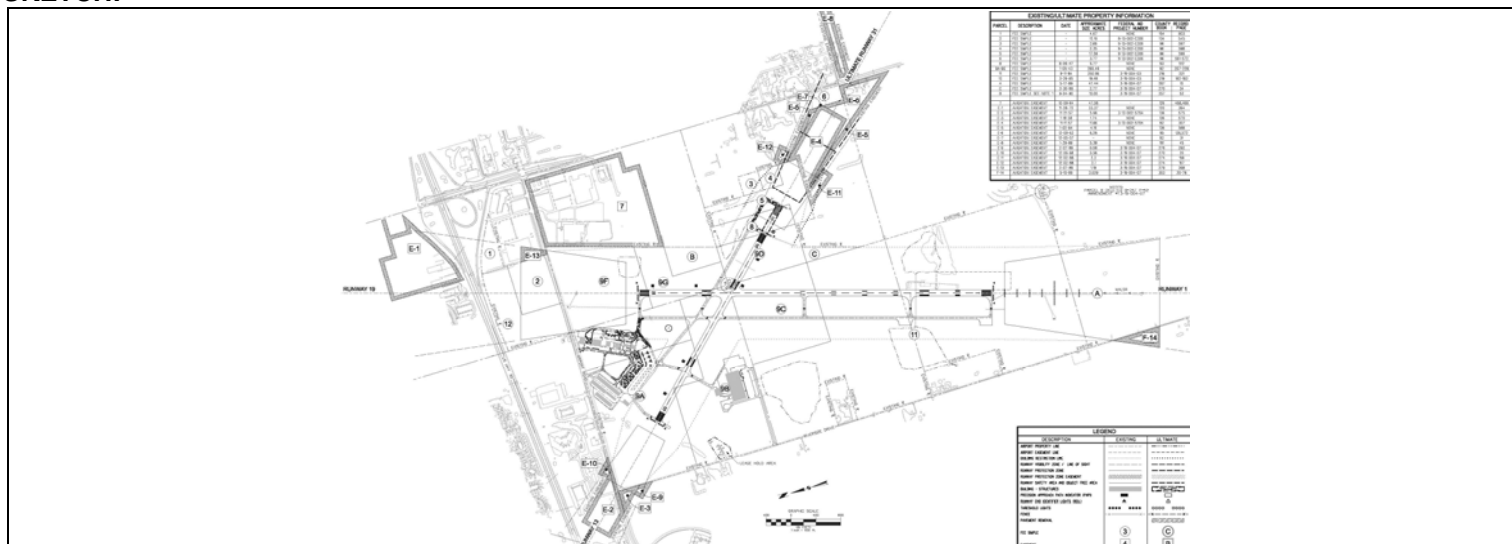
Airport Name: Ames Municipal Airport

| Description of Project<br>(include estimated Fiscal Year) | Funding Source  | Total Estimated Cost                                      |
|---|---|---|
| Runway 01/19 - 2000' Extension Land Acquisition (2022)    | <b>Federal:</b> 90%<br><b>State:</b><br><b>Local:</b> 10%<br><b>Total:</b> 100% | \$ 2,148,300.00<br>\$<br>\$ 238,700.00<br>\$ 2,387,000.00 |
| Runway 01/19 Extension Design & Grading (2023)            | <b>Federal:</b> 90%<br><b>State:</b><br><b>Local:</b> 10%<br><b>Total:</b> 100% | \$ 1,759,320.00<br>\$<br>\$ 195,480.00<br>\$ 1,954,800.00 |
| Road Relocation for Runway 01/19 Extension (2024)         | <b>Federal:</b> 90%<br><b>State:</b><br><b>Local:</b> 10%<br><b>Total:</b> 100% | \$ 1,285,740.00<br>\$<br>\$ 142,860.00<br>\$ 1,428,600.00 |
| Runway 01/19 - 2000' Extension Paving (2025)              | <b>Federal:</b> 90%<br><b>State:</b><br><b>Local:</b> 10%<br><b>Total:</b> 100% | \$ 3,928,500.00<br>\$<br>\$ 436,500.00<br>\$ 4,365,000.00 |
|   | <b>Federal:</b><br><b>State:</b><br><b>Local:</b><br><b>Total:</b>              | \$<br>\$<br>\$<br>\$                                      |
|   | <b>Federal:</b><br><b>State:</b><br><b>Local:</b><br><b>Total:</b>              | \$<br>\$<br>\$<br>\$                                      |

# CIP DATA SHEET

|                            |                        |  |     |                       |        |
|----------------------------|------------------------|--|-----|-----------------------|--------|
| <b>AIRPORT</b>             | Ames Municipal Airport | <b>LOCID</b>   | AMW | <b>LOCAL PRIORITY</b> | 1      |
| <b>PROJECT DESCRIPTION</b> | Masterplan             | <b>Identify FFY that you desire to construct</b><br>(FFY: Oct. 1-Sept. 30) |     |                       | FFY 17 |

**SKETCH:**



**JUSTIFICATION:**

The current masterplan is nearing full buildout. In order to continue to grow and expand the Ames Municipal Airport need to complete a new masterplan and ALP in order to continue to meet the goals of a growing community.

**COST ESTIMATE:** (Attach detailed cost estimate)

**Federal(90%)    \$149,400.00                      State    \$0                      Local (10%)    \$16,600.00                      Total    \$166,000.00**

**SPONSOR'S VERIFICATION:**

For each and every project as applicable

| Date      | (see instruction sheet or point mouse over each date box for more information)   |
|-----------|--|
| 12/2008   | <ul style="list-style-type: none"> <li>- Date of approved ALP with project shown</li> <li>- Date of environmental determination (ROD, FONSI, CE), or cite CE paragraph # (307-312) in Order 1050.1E</li> <li>- Date of land acquisition or signed purchase agreement</li> </ul>  |
| 9/10/2012 | <ul style="list-style-type: none"> <li>- Date of pavement maintenance program</li> <li>- Snow removal equipment inventory &amp; sizing worksheet (for SRE acquisition)</li> <li>- Apron sizing worksheet (for apron projects)</li> <li>- Revenue producing facilities (for fuel farms, hangers, etc.)</li> <li>- Date statement submitted for completed airside development</li> <li>- Date statement submitted for runway approaches are clear of obstructions</li> </ul> |

|                                  |
|----------------------------------|
| <b>FAA USE ONLY</b>              |
| FAA Verification: (initial/date) |
|                                  |

SPONSOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

PRINTED NAME: Damion Pregitzer TITLE: Traffic Engineer

PHONE NUMBER: 515-239-5275

**FAA USE ONLY**

| PREAPP NUMBER | GRANT NUMBER | NPIAS CODE | WORK CODE | FAA PRIORITY | FEDERAL \$ |
|---------------|--------------|------------|-----------|--------------|------------|
|               |              |            |           |              |            |

**MASTERPLAN**

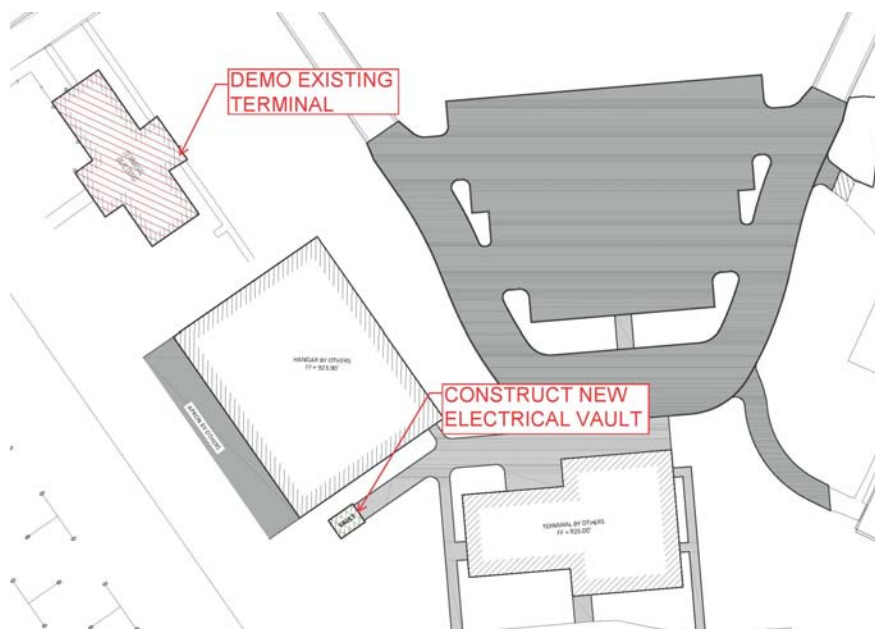
| No.               | ITEM       | QTY | UNIT | UNIT PRICE    | TOTAL                | Federal 90%          | State 0%    | Local 10%           |
|-------------------|------------|-----|------|---------------|----------------------|----------------------|-------------|---------------------|
| 1                 | MASTERPLAN | 1   | LS   | \$ 166,000.00 | \$ 166,000.00        | \$ 149,400.00        | \$ -        | \$ 16,600.00        |
| <b>MASTERPLAN</b> |            |     |      |               | <b>\$ 166,000.00</b> | <b>\$ 149,400.00</b> | <b>\$ -</b> | <b>\$ 16,600.00</b> |



# CIP DATA SHEET

|                            |   |  |     |                       |      |
|----------------------------|---|--|-----|-----------------------|------|
| <b>AIRPORT</b>             | Ames Municipal Airport                    | <b>LOCID</b>   | AMW | <b>LOCAL PRIORITY</b> | 2    |
| <b>PROJECT DESCRIPTION</b> | Electrical Vault & Existing Terminal Demo | <b>Identify FFY that you desire to construct</b><br>(FFY: Oct. 1-Sept. 30) |     |                       | 2019 |

**SKETCH:**



**JUSTIFICATION:**

With the construction of a new terminal building in 2015-2016 the existing terminal building is not longer needed expect to house the existing electrical vault in the basement. This project will relocate the electrical equipment to a new vault building and

**COST ESTIMATE:** (Attach detailed cost estimate)

|                     |                     |              |            |                    |                    |              |                     |
|---------------------|---------------------|--------------|------------|--------------------|--------------------|--------------|---------------------|
| <b>Federal(90%)</b> | <b>\$356,400.00</b> | <b>State</b> | <b>\$0</b> | <b>Local (10%)</b> | <b>\$39,600.00</b> | <b>Total</b> | <b>\$396,000.00</b> |
|---------------------|---------------------|--------------|------------|--------------------|--------------------|--------------|---------------------|

**SPONSOR'S VERIFICATION:**

For each and every project as applicable

| Date                       | (see instruction sheet or point mouse over each date box for more information)   |
|----------------------------|--|
| 12/2008<br><b>Required</b> | <ul style="list-style-type: none"> <li>- Date of approved ALP with project shown</li> <li>- Date of environmental determination (ROD, FONSI, CE), or cite CE paragraph # (307-312) in Order 1050.1E</li> <li>- Date of land acquisition or signed purchase agreement</li> </ul>  |
| 9/10/12                    | <ul style="list-style-type: none"> <li>- Date of pavement maintenance program</li> <li>- Snow removal equipment inventory &amp; sizing worksheet (for SRE acquisition)</li> <li>- Apron sizing worksheet (for apron projects)</li> <li>- Revenue producing facilities (for fuel farms, hangers, etc.)</li> <li>- Date statement submitted for completed airside development</li> <li>- Date statement submitted for runway approaches are clear of obstructions</li> </ul> |

|                                  |
|----------------------------------|
| <b>FAA USE ONLY</b>              |
| FAA Verification: (initial/date) |
|                                  |

SPONSOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

PRINTED NAME: Damion Pregitzer TITLE: Traffic Engineer

PHONE NUMBER: 515-239-5275

**FAA USE ONLY**

| PREAPP NUMBER | GRANT NUMBER | NPIAS CODE | WORK CODE | FAA PRIORITY | FEDERAL \$ |
|---------------|--------------|------------|-----------|--------------|------------|
|               |              |            |           |              |            |

**ELECTRICAL VAULT & TERMINAL DEMOLITION**

| No. | ITEM  | QTY  | UNIT | UNIT PRICE    | TOTAL         | Federal 90%   | State 0% | Local 10%    |
|-----|---|------|------|---------------|---------------|---------------|----------|--------------|
| 1   | MOBILIZATION  | 1    | LF   | \$ 43,800.00  | \$ 43,800.00  | \$ 39,420.00  | \$ -     | \$ 4,380.00  |
| 2   | TRENCHING   | 485  | LF   | \$ 5.50       | \$ 2,667.50   | \$ 2,400.75   | \$ -     | \$ 266.75    |
| 3   | NO. 8 AWG L824C CABLE, INSTALLED IN DUCT BANK OR CONDUIT            | 2524 | LF   | \$ 1.65       | \$ 4,164.60   | \$ 3,748.14   | \$ -     | \$ 416.46    |
| 4   | NO. 6 AWG 600V CABLE, INSTALLED IN DUCT BANK OR CONDUIT             | 160  | LF   | \$ 1.95       | \$ 312.00     | \$ 280.80     | \$ -     | \$ 31.20     |
| 5   | NO. 8 AWG 600V CABLE, INSTALLED IN DUCT BANK OR CONDUIT             | 336  | LF   | \$ 1.55       | \$ 520.80     | \$ 468.72     | \$ -     | \$ 52.08     |
| 6   | AIRPORT VAULT, 11'x16', COMPLETE                                    | 1    | LS   | \$ 110,000.00 | \$ 110,000.00 | \$ 99,000.00  | \$ -     | \$ 11,000.00 |
| 7   | INSTALLATION OF VAULT EQUIPMENT, COMPLETE, IN PLACE                 | 1    | LS   | \$ 33,000.00  | \$ 33,000.00  | \$ 29,700.00  | \$ -     | \$ 3,300.00  |
| 8   | L-828 CONSTANT CURRENT REGULATOR, 10KW, COMPLETE, IN PLACE          | 1    | EA   | \$ 14,300.00  | \$ 14,300.00  | \$ 12,870.00  | \$ -     | \$ 1,430.00  |
| 9   | L-828 CONSTANT CURRENT REGULATOR, 7.5KW, COMPLETE, IN PLACE         | 2    | EA   | \$ 12,100.00  | \$ 24,200.00  | \$ 21,780.00  | \$ -     | \$ 2,420.00  |
| 10  | INSTALL EXISTING 25KW REGULATOR, COMPLETED, IN PLACE                | 1    | EA   | \$ 11,000.00  | \$ 11,000.00  | \$ 9,900.00   | \$ -     | \$ 1,100.00  |
| 11  | CONDUIT, 2" PVC, IN TRENCH  | 358  | LF   | \$ 12.10      | \$ 4,331.80   | \$ 3,898.62   | \$ -     | \$ 433.18    |
| 12  | CONDUIT, 4" PVC, IN TRENCH  | 150  | LF   | \$ 15.40      | \$ 2,310.00   | \$ 2,079.00   | \$ -     | \$ 231.00    |
| 13  | DUCT BANK, CONCRETE ENCASED, WITH (6) 3" CONDUITS & (4) 2" CONDUITS | 52   | LF   | \$ 192.50     | \$ 10,010.00  | \$ 9,009.00   | \$ -     | \$ 1,001.00  |
| 14  | REMOVAL OF TERMINAL BUILDING  | 1    | LS   | \$ 75,000.00  | \$ 75,000.00  | \$ 67,500.00  | \$ -     | \$ 7,500.00  |
|     | Subtotal  |      |      | \$            | \$ 335,616.70 | \$ 302,055.03 | \$ -     | \$ 33,561.67 |
|     | PROJECT DEVELOPMENT / SCOPING                                       |      |      | \$            | \$ -          | \$ -          | \$ -     | \$ -         |
|     | DESIGN ENGINEERING (8%)   |      |      | \$            | \$ 26,849.34  | \$ 24,164.40  | \$ -     | \$ 2,684.93  |
|     | CONSTRUCTION ENGINEERING (10%)                                      |      |      | \$            | \$ 33,561.67  | \$ 30,205.50  | \$ -     | \$ 3,356.17  |
|     | GRANT ADMINISTRATION  |      |      | \$            | \$ -          | \$ -          | \$ -     | \$ -         |
|     | DISADVANTAGED BUSINESS ENTERPRISE (DBE) PLAN                        |      |      | \$            | \$ -          | \$ -          | \$ -     | \$ -         |
|     | ENVIRONMENTAL CATEx   |      |      | \$            | \$ -          | \$ -          | \$ -     | \$ -         |
|     | ESTIMATED CITY ADMINISTRATION                                       |      |      | \$            | \$ -          | \$ -          | \$ -     | \$ -         |
|     | <b>ELECTRICAL VAULT &amp; TERMINAL DEMOLITION</b>                   |      |      | \$            | \$ 396,000.00 | \$ 356,400.00 | \$ -     | \$ 39,600.00 |