



CITY OF LAS VEGAS
1700 N. GRAND AVE. LAS VEGAS, NEW MEXICO 87701
505-454-1401 FAX: 505-425-7335

Mayor Tonita Gurule-Giron

**CITY OF LAS VEGAS
WORK SESSION CITY COUNCIL AGENDA
April 12, 2017–Wednesday– 5:30 p.m.
City Council Chambers
1700 N. Grand Ave**

(The City Council shall act as the Housing Authority Board of Commissioners on any matters on the Agenda concerning the Housing Department.)

- I. **CALL TO ORDER**
- II. **ROLL CALL**
- III. **PLEDGE OF ALLEGIANCE**
- IV. **MOMENT OF SILENCE**
- V. **APPROVAL OF AGENDA**
- VI. **PUBLIC INPUT (not to exceed 3 minutes per person and persons must sign up at least fifteen (15) minutes prior to meeting.)**
- VII. **PRESENTATIONS (Not to exceed 10 minutes per person)**
 - Presentation by Ms. Lea Knutson from the Hermit's Peak Watershed Alliance on the Gallinas Village river and floodplain restoration project.
- VIII. **DISCUSSION ITEMS**
 1. 2017 Audit Contract

Ann Marie Gallegos, Finance Director The City of Las requested audit proposals for the 2015, 2016 and 2017 Audits. This is the third year of a three year proposal with RPC CPAs + Consultants, LLP.
 2. Resolution #17-07, supporting New Mexico Department of transportation Municipal Arterial Program (MAP)-2018 application.

Veronica Gentry, Public Works Director A resolution is required to support the Municipal Arterial Program (MAP)-2018 application for the project development, design and construction of surface and drainage improvements along Mountainview Drive – 7th Street (NM 518) to Grand Avenue (US Hwy 85).

3. Molzen Corbin & Associates task order – Hot Springs Blvd. waterline replacement.

Maria Gilvarry, Utilities Director Molzen Corbin & Associates will provide engineering services for the planning and design phase of the Hot Springs Blvd. waterline replacement. The project entails installation of 7900 feet of 16” Dip waterline and 500 feet of 8” PVC waterline along Hot Springs Blvd. The amount of the task order is \$124,050.00 not including NMGRT.

4. Molzen Corbin & Associates task order – North 8th Street waterline extension.

Maria Gilvarry, Utilities Director Molzen Corbin & Associates will provide engineering services for the planning and design phase of the North 8th Street waterline extension. The project entails installation of 7200 feet of 8” PVC waterline along North 8th Street. The amount of the task order is \$64,225.00 not including NMGRT.

5. Water Treatment Plant Sodium Hypochlorite disinfection system.

Maria Gilvarry, Utilities Director The current disinfection system at the Water Treatment Plant is the MIOX system. The MIOX system is a proprietary system and has been experiencing failures. The new Sodium Hypochlorite disinfection is not a proprietary system and repair parts for this system can be purchased off the shelf. The cost of the system is \$491,024.00.

IX. EXECUTIVE SESSION

THE COUNCIL MAY CONVENE INTO EXECUTIVE SESSION IF SUBJECT MATTER OF ISSUES ARE EXEMPT FROM THE OPEN MEETINGS REQUIREMENT UNDER § (H) OF THE OPEN MEETINGS ACT.

- A. **Personnel matters, as permitted by Section 10-15-1 (H) (2) of the New Mexico Open Meetings Act, NMSA 1978.**

B. Matters subject to the attorney client privilege pertaining to threatened or pending litigation in which the City of Las Vegas is or may become a participant, as permitted by Section 10-15-1 (H) (7) of the New Mexico Open Meetings Act, NMSA 1978.

C. Matters pertaining to the discussion of the sale and acquisition of real property, as permitted by Section 10-15-1 (H) (8) of the Open Meetings Act, NMSA 1978.

X. ADJOURN

ATTENTION PERSONS WITH DISABILITES: The meeting room and facilities are accessible to persons with mobility disabilities. If you plan to attend the meeting and will need an auxiliary aid or service, please contact the City Clerk's Office prior to the meeting so that arrangements may be made.

ATTENTION PERSONS ATTENDING COUNCIL MEETING: By entering the City Chambers, you consent to photography, audio recording, video recording and its/their use for inclusion on the City of Las Vegas Web-site, and to be televised on Comcast.

NOTE: A final agenda will be posted 72 hours prior to the meeting. Copies of the Agenda may be obtained from City Hall, Office of the City Clerk, 1700 N. Grand Avenue, Las Vegas, N.M 87701

Work Session

CITY COUNCIL MEETING AGENDA REQUEST

DATE: 03/30/17

DEPT: Utilities Dept.

MEETING DATE: 04/12/17

DISCUSSION ITEM/TOPIC: Presentation on the Gallinas Village river and floodplain restoration project.

BACKGROUND/RATIONALE: Ms. Lea Knutson from the Hermit's Peak Watershed Alliance will be presenting to the Governing body on the status and results of the New Mexico Environment Department funded and City supported project.

THIS REQUEST FORM MUST BE SUBMITTED TO THE CITY CLERK'S OFFICE NO LATER THAN 5:00 P.M. ON FRIDAY ONE AND A HALF WEEKS PRIOR TO THE CITY COUNCIL MEETING.


SUBMITTER'S SIGNATURE

REVIEWED AND APPROVED BY:


TONITA GURULÉ-GIRÓN
MAYOR


RICHARD TRUJILLO
CITY MANAGER

ANN MARIE GALLEGOS
FINANCE DIRECTOR
(PROCUREMENT)

PURCHASING AGENT
(FOR BID/RFP AWARD)

CITY ATTORNEY
(ALL CONTRACTS MUST BE
REVIEWED)

Work Session

CITY COUNCIL MEETING AGENDA REQUEST

DATE: 03/31/2017

DEPT: Finance

MEETING DATE: 04/12/2017

DISCUSSION ITEM/TOPIC: 2017 Audit Contract

BACKGROUND/RATIONALE: The City of Las Vegas requested audit proposals for the 2015, 2016, and 2017 Audits. This is the third year of a three year proposal with RPC CPAs + Consultants, LLP.

THIS REQUEST FORM MUST BE SUBMITTED TO THE CITY CLERK'S OFFICE NO LATER THAN 5:00 P.M. ON FRIDAY ONE AND A HALF WEEKS PRIOR TO THE CITY COUNCIL MEETING.


SUBMITTER'S SIGNATURE

REVIEWED AND APPROVED BY:



TONITA GURULE-GIRON
MAYOR

ANN MARIE GALLEGOS
FINANCE DIRECTOR
(PROCUREMENT)



RICHARD TRUJILLO
CITY MANAGER

PURCHASING AGENT
(FOR BID/RFP AWARD)

CITY ATTORNEY
(ALL CONTRACTS MUST BE
REVIEWED)

Contract Data Form for Audits

Please enter all contract information below. If not applicable, please put N/A in the field.

I. Agency Contact Information

Agency Type

Local Public Body (LPB) - Do Not Qualify For Tiered System

Name Of Agency

City of Las Vegas

Address Of Agency

1700 North Grand Avenue

Phone # Of Agency

(505) 426-3251

Fax # Of Agency *Optional*

(505) 425-7335

City

Las Vegas

State

NM

Zip

87701

Web Site Address *Optional*

Agency Head Contact Information

Name Of Agency Head

Richard Trujillo

Title Of Agency Head

City Manager

Email Address Of Agency Head

rtrujillo@ci.las-vegas.nm.us

Agency Contact Information

Name Of Agency Contact

Tana Vega

Title Of Agency Contact

Deputy Finance Director

Phone # Of Agency Contact

(505)426-3241

Fax # Of Agency Contact *Optional*

Email Address Of Agency Contact

tana@ci.las-vegas.nm.us

Note: Please fill out e-mail address of contact person. All fully executed contracts will be sent via e-mail.

I. Recommended Independent Public Accountant (IPA) Information

As required by the Audit Rule, Section 2.2.2.8.E(3), an IPA subject to contract restriction is responsible for informing this agency whether it is eligible to engage in this proposed contract. By signing the signature page, I am verifying herein that the IPA has certified its eligibility to engage in this proposed contract

On-Site Manager Name

Danny Martinez

Name Of IPA Firm

RPC CPAs + Consultants, LLP

Phone #

(505)883-2727

Fax # Optional**E-Mail Address**

dmartinez@rpcllp.com

III. Important Dates

For Which Fiscal Year (FY) Is This Recommendation Being Made:

2017

Estimated Audit Start Date

07/17/2017

Estimated Completion Date

11/15/2017

IV. Single Audit Requirement

Please check the box below that applies to your agency (a Single Audit should have been included in the procurement if the agency expended \$750,000 or more of federal funds):

- My agency procured an annual financial and compliance audit without a Single Audit.
- My agency procured an annual financial and compliance audit with a Single Audit.

V. Multi Year Certification

Please check the appropriate box below:

- This is a multi-year award.
- This is a one year procurement award for only the fiscal year indicated in Section III.

This request applies to the chosen year of a multi-year proposal:

- Year 1 Year 2 Year 3

VI. Fee and Hour Breakdown

Do not use commas - numbers only

Category	[Year 1] Hours	[Year 1] Cost	[Year 2] Hours	[Year 2] Cost	[Year 3] Hours	[Year 3] Cost
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Category	[Year 1] Hours	[Year 1] Cost	[Year 2] Hours	[Year 2] Cost	[Year 3] Hours	[Year 3] Cost
Financial Statement Audit	465	\$48,825.00	465	\$48,825.00	465	\$48,825.00
Financial Statement Preparation	80	\$8,400.00	80	\$8,400.00	80	\$8,400.00
Federal Single Audit	85	\$8,925.00	85	\$8,925.00	85	\$8,925.00
Other allowed non-audit services		\$0.00		\$0.00		\$0.00
Component Units	150	\$15,350.00	95	\$9,721.00	95	\$9,721.00
Other		\$0.00		\$0.00		\$0.00
TOTAL	780	[\$] 81,500.00	725	[\$] 75,871.00	725	[\$]75,871.00

For The Current Fiscal Year, Total Amount Payable NOT Including Gross Receipts Tax, Shall Not Exceed:

\$75,871.00

Additional Information

Agency Contract Reference Number *Optional*

Number Of Copies To Be Delivered By The Contractor To The Agency

12

Other Provisions *Optional*

This Contract is made effective as of the date of the signature of the Office of the State Auditor.

Agency

Name: _____

Address: _____

Title: _____

Date: _____

Contractor

Name: _____

Address: _____

Title: _____

Date:

This Contract has been approved by: Office of the State Auditor

By:

Title: Deputy State Auditor

Date:

Work Session

CITY COUNCIL MEETING AGENDA REQUEST

DATE: 3/21/17

DEPT: Public Works

MEETING DATE: 4/12/17

DISCUSSION ITEM/TOPIC: Resolution #17-07, supporting New Mexico Department of Transportation Municipal Arterial Program (MAP)-2018 application.

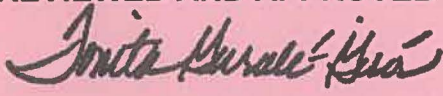
BACKGROUND/RATIONALE: A resolution is required to support the Municipal Arterial Program (MAP)-2018 application.

**THIS REQUEST FORM MUST BE SUBMITTED TO THE CITY MANAGER'S OFFICE
NO LATER THAN 10:00 A.M. ON FRIDAY ONE AND A HALF WEEKS PRIOR TO
THE CITY COUNCIL MEETING.**



SUBMITTER'S SIGNATURE

REVIEWED AND APPROVED BY:



**TONITA GURULE-GIRON
MAYOR**

**ANN MARIE GALLEGOS
FINANCE DIRECTOR**



**RICHARD TRUJILLO
CITY MANAGER**

**PURCHASING AGENT
(FOR BID AWARD ONLY)**

CITY ATTORNEY

Approved as to Legal Sufficiency Only

**CITY OF LAS VEGAS, NM
RESOLUTION NO. 17-07**

A resolution Supporting Application of New Mexico Department of Transportation Municipal Arterial Program (MAP)-2018 for the Project Development, Design and Construction of Surface and Drainage Improvements along Mountain View Drive – 7th Street (NM 518) to Grand Avenue (US Hwy 85)

WHEREAS, the estimated cost of the above described project is one million one hundred and forty dollars (\$1,140,000.00); and

WHEREAS, the City of Las Vegas governing body has declared improvements to said streets a necessity for the good and well being of citizens of Las Vegas, New Mexico and support Municipal Arterial Program (MAP)-2018 Application for these funds to accomplish the work; and

WHEREAS, the City of Las Vegas will agree to work in accordance with the funding requirements of the Municipal Arterial Funding Program (MAP), provided it be successful in receiving the funding necessary for these improvements.

NOW, THEREFORE, be it and hereby is resolved by the governing body of the City of Las Vegas that the Municipal Arterial Program Application for the above funding be submitted to the New Department of Transportation.

PASSED, APPROVED, AND ADOPTED THIS _____ DAY OF APRIL, 2017.

CITY OF LAS VEGAS:

Mayor

ATTEST:

Casandra Fresquez, City Clerk



MEMORANDUM

TO: Mayor and Council
FROM: Veronica Gentry, Public Works Director
THRU: Richard Trujillo, City Manager

DATE: March 21, 2017

RE: Supporting Resolution #17-07 Municipal Arterial Program (MAP)-2018 Application

As part of the application submittal criteria for the New Mexico Department of Transportation Municipal Arterial Program (MAP)-2018, it is required that a resolution of support from the Local Governing Body.

In complying with this criteria, staff is requesting that this resolution be approved for the Project Development, Design and Construction of Surface and Drainage Improvements along Mountainview Drive – 7th Street (NM 518) to Grand Avenue (US Hwy 85). Total project amount \$1,140,000.00.

Budgetary provisions will be made in the Public Works Department's 2018/2019 fiscal year budget cycle to implement this project, should it be funded by the New Mexico Department of Transportation.

Should you have any questions regarding this resolution, prior to scheduled City Council Meeting, please contact this office at your convenience.

Enclosure

xc: (MAP) 2018/19 File

March 17, 2017

Clarissa Martinez
LRGF Coordinator
P.O. Box 1149
Santa Fe, NM 87504

RE: Municipal Arterial Program (MAP) Application
Mountainview Drive – 7th Street (NM 518) to Grand Ave. (US Hwy 65)

Dear Ms. Martinez:

In accordance with the Local Government Road Fund letter dated February 10, 2017, soliciting applications for Fiscal Year 2018 for the Municipal Arterial Program (MAP), the City of Las Vegas is pleased to submit this request for construction funding for your consideration. This funding request is for Mountainview Drive – 7th Street (NM 518) to Grand Ave. (US Hwy 85). The following information is included herein for review:

1. A map of the project limits (including proposed phasing)
2. Current and 20 year projected traffic volumes (ADT, DHV, and percent heavy traffic)
3. Pavement design criteria (10 year minimum)
4. Proposed Typical Section
5. Major intersection and traffic signal analysis (including warrants)
6. Drainage Reports
7. A preliminary cost estimate (including department share and municipality share)
8. Local Government resolution of support for the project, and
9. A Project Data Sheet summarizing existing and proposed information.

Project Map

The project limits on Mountainview Drive extend from the BOP at 7th Street (NM 518) to the EOP at Grand Avenue (US HWY 85, Interstate 25 Business Route), which is approximately 4,967 ft. Mountainview Drive is a main connector road between State Road 518, and Grand Avenue (US Hwy 85, Interstate 25 Business Route), and Interstate 25.



Figure 1- Project Layout Map

Current & 20 Year Projected Traffic Volumes

Currently there is no TIMS information available on Mountainview Road. The current (2015) and projected (2035) ADT for 7th Street (NM 518) are shown below.

2015 ADT's	2035 ADT's	Percent Heavy Trucks	Design Hourly Volume
17,499	19,334	11	2,320 vehicles

The current (2016) and projected (2036) AADT for Grand Ave. (US HWY 85, Interstate 25 Business Route) is based on traffic data collected during the Phase A/B Study for NMDOT PCN 4100840. The current and projected ADT for Grand Avenue are shown below.

2016 ADT's	2036 ADT's	Percent Heavy Trucks	Design Hourly Volume
7,498	8,284	4	994 vehicles

Projected ADT's extrapolated at 0.5% annual growth rate to determine the 20-year projected AADT.

Mountainview Drive serves as a direct route between Interstate 25 and NM 519. Mountainview Drive also serves as a collector route for residents in the area and provides an alternate route to Sierra Vista Elementary School.

Pavement Design Criteria

The proposed pavement section is based on the as constructed pavement section. The existing pavement consists of a 5/8" open graded friction course over 4" of asphalt pavement. The proposed project will remove the open graded friction course and approximately 2" of the asphalt pavement. An asphalt overlay will then be constructed.

Typical Section

The typical section for the roadway includes two 16' travel lanes, one each for eastbound and westbound traffic. Curb and gutter, and sidewalks will be repaired as needed, and ADA ramps will be reconstructed at all intersecting streets in the project. See below for the proposed typical section.

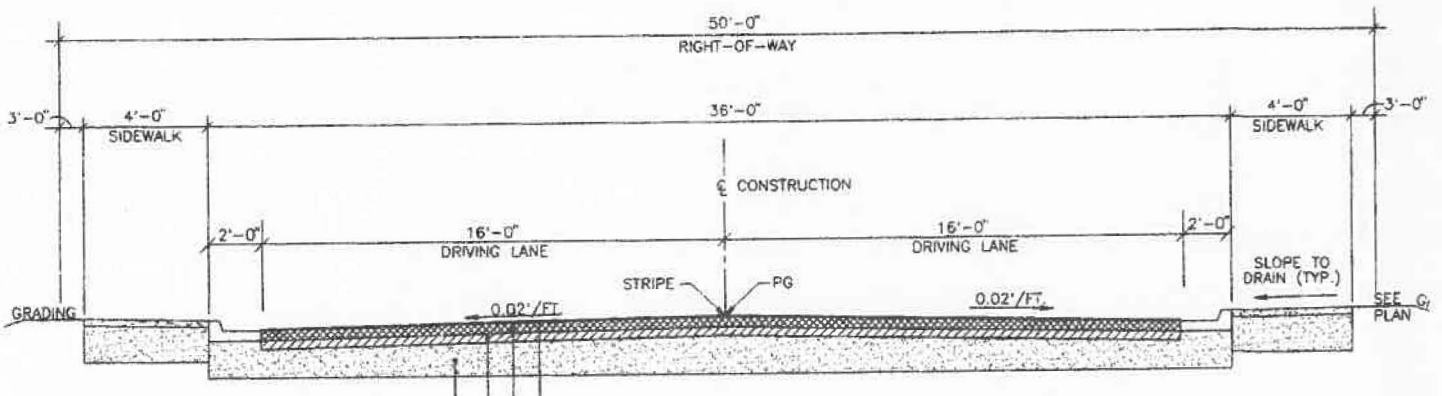


Figure 2 - Mountainview Drive Typical Section

Major Intersection and Signal Warrants

The City is not pursuing a traffic signal on Mountainview Drive within the proposed project limits. Therefore, signal warrants will not be submitted for review.

Drainage Reports

The proposed project is for milling and overlaying the existing road, therefore, there will be no Impacts to existing drainage.

Preliminary Cost Estimate

The overall costs for the Roadway Construction Costs for the proposed project limits will be approximately **\$898,000.00**. The Design Costs will be approximately **\$149,000.00**. With GRT, the Total Project Costs are approximately **\$1,140,000.00**. A breakdown of the estimated construction costs per item is included below.

CONSTRUCTION COST ESTIMATE	
<i>Roadway</i>	\$ 588,000.00
<i>Construction Signing</i>	\$ 50,000.00
<i>Permanent Signing & Striping</i>	\$ 22,000.00
<i>Construction Engineering</i>	\$ 58,000.00
<i>Contingency (25%)</i>	\$ 180,000.00
SUBTOTAL CONSTRUCTION COSTS	\$ 898,000.00
DESIGN COSTS	
<i>Roadway Design</i>	\$ 92,000.00
<i>Geotechnical Investigation</i>	\$ 8,000.00
<i>Environmental Documentation</i>	\$ 5,000.00
<i>Field Survey</i>	\$ 7,000.00
<i>Project Coordination</i>	\$ 12,000.00
<i>Construction Administration</i>	\$ 25,000.00
SUBTOTAL ENGINEERING SERVICES	\$ 149,000.00
TOTAL (CONSTRUCTION +DESIGN)	\$ 1,047,000.00
<i>NMGRT (8.3958%)</i>	\$ 87,904.03
<hr/>	
GRAND TOTAL (WITH NMGRT)	\$ 1,134,904.03
GRAND TOTAL (ROUNDED)	\$ 1,140,000.00

Project Data Sheet

Existing Project Information:

The Existing Project information includes the following:

- The project is located on a main roadway and is classified as a Minor Collector Roadway and is a two - way street that runs east to west.
- This roadway connects 7th Street (NM 518) on the west to Grand Avenue (US HWY 85, Interstate 25 Business Route) on the east.
- This roadway also serves Sierra Vista Elementary School, provides access to single family and multi-family residential areas, and along with several businesses.
- The existing roadway has poor pavement conditions, cracked concrete curb and gutter, and minimal pedestrian facilities.
- The existing typical section includes 2-16' driving lanes and a 2' curb and gutter section, and 4' wide sidewalks in several areas.
- The roadway has curb ramps that are not compliant with PROWAG or ADA Standards.
- *Proposed Project Information:*
- The Proposed Project Information includes the following:
- The project will be a mill and overlay project.
- The project will provide new asphalt surfacing, repair/reconstruct curb and gutter sections, driveway pads and existing sidewalk.
- The project will provide new ADA curb ramps, and signing and striping.

Sincerely,



Veronica Gentry
Public Works Director
City of Las Vegas

xc: Richard Trujillo, City Manager
David Trujillo, District IV Engineer
Heather Sandoval, Assistant District IV Engineer
Daniel Gurule, Project Manager
2017/2018 Coop File Submittal

Work Session

CITY COUNCIL MEETING AGENDA REQUEST

DATE: 03/30/17

DEPT: Utilities Dept.

MEETING DATE: 04/12/17

DISCUSSION ITEM/TOPIC: Molzen Corbin & Associates task order – Hot Springs Blvd. waterline replacement.

BACKGROUND/RATIONALE: Molzen Corbin & Associates will provide engineering services for the planning and design phase of the Hot Springs Blvd. waterline replacement. The project entails installation of 7900 feet of 16" DIP waterline and 500 feet of 8" PVC waterline along Hot Springs Blvd. The amount of the task order is \$124,050.00 not including NMGRT.

THIS REQUEST FORM MUST BE SUBMITTED TO THE CITY CLERK'S OFFICE NO LATER THAN 5:00 P.M. ON FRIDAY ONE AND A HALF WEEKS PRIOR TO THE CITY COUNCIL MEETING.


SUBMITTER'S SIGNATURE

REVIEWED AND APPROVED BY:


TONITA GURULÉ-GIRÓN
MAYOR


RICHARD TRUJILLO
CITY MANAGER

ANN MARIE GALLEGOS
FINANCE DIRECTOR
(PROCUREMENT)

PURCHASING AGENT
(FOR BID/RFP AWARD)

CITY ATTORNEY
(ALL CONTRACTS MUST BE
REVIEWED)

Revised 4/20/16



UTILITIES DEPARTMENT PROJECT SUMMARY SHEET

PROJECT NAME: Hot Springs Waterline Replacement
PROJECT NUMBER: UT-WFDHSWE-2017
PROJECT MANAGER: Marvin Cordova

ENGINEER: Molzen-Corbin
CONTRACT NUMBER: 2679-13

PROJECT DESCRIPTION: The scope of this project consists of 7900 feet of 16" DIP waterline and 500 feet of 8" PVC waterline along Hot Springs Blvd.

Action: Approve task order to begin design phase.

TIMELINE: March-May 2017

FUNDING SOURCES	ESTIMATED EXPENDITURES	EXPENDED to date ('17)	Est. BAL to Expend in '17
City \$140,000	Design \$140,000	Design \$0	Design \$140,000
State	Consultant Services \$	Egr Services \$0.00	Egr Services \$
Federal	<u>Construction \$1,500,000</u>	Const \$0.00	<u>Construction \$1,500,000</u>
Total Funds \$140,000	Total w/ GRT \$140,000	Total w/GRT \$0.00	Total w/GRT \$140,000

BUDGETED AMOUNT: \$140,000 **LINE ITEM NUMBER:** 646-0000-610-7305

ACTION	DESCRIPTION	DATE
Funding Source	CITY	
Loan/Grant/City	City \$140,000	
	Grant \$	
	Loan \$ _____	
	Total \$140,000	
Authorized Ordinance		
RFP		
Engineering Services agreement	Contract# 2013-19 Task Order No. \$ _____	
Engineering Estimate	Total Engineer's Estimate \$ _____	
Bid Document Review	Bid #	
Advertisement		
Bid Opening	Date	
Bid Tabulation	Contractor _____ Amount _____	
	Contractor _____ Amount _____	
	Contractor _____ Amount _____	
	Contractor _____ Amount _____	
Construction Estimate	Contractor Share \$ _____ (Including NMGR)	
	City Share \$ _____	
Engineer's Recommendation	Contractor _____	
Staff Recommendation		
Committee Recommendation		
Council Approval		
Notice To Proceed		

Hot Springs Waterline Replacement
City of Las Vegas Contract No. 2013-19

- ATTACHMENT I** - Compensation for Engineering Services During the Planning Phase
- ATTACHMENT II** - Compensation for Engineering Services During the Design Phase
- ATTACHMENT III** - Compensation for Engineering Services During the Construction Phase
- ATTACHMENT IV** - Compensation for Engineering Services During the Operation Phase

1. As set forth in the AGREEMENT FOR ENGINEERING SERVICES dated the _____ day of _____, 2013 by and between the City of Las Vegas, the OWNER, and Molzen-Corbin & Associates, the ENGINEER, the OWNER and ENGINEER agree this _____ day of _____, 2017 that the OWNER shall compensate the ENGINEER for services described in Section B and Section C and further described in

- EXHIBIT A** – Planning Services scope of work and cost proposal
- EXHIBIT B** – Design Services scope of work and cost proposal
- EXHIBIT C** – Construction Services scope of work and cost proposal
- EXHIBIT D** – Operational Services scope of work and cost proposal

2. Compensation for ENGINEERING SERVICES shall be by the

LUMP SUM method of payment. The total amount of compensation for ENGINEERING SERVICES, as described in the appropriate EXHIBIT, shall not exceed \$ _____, excluding gross receipt tax and reimbursables.

STANDARD HOURLY RATE WITH MAXIMUM method of payment. The total amount of hourly charges, excluding gross receipt tax and reimbursables, for ENGINEERING SERVICES as described in the appropriate EXHIBIT shall not exceed \$97,200.00 without prior written approval of the OWNER, with Funding Agency concurrence for the basic design.

3. Compensation for ADDITIONAL ENGINEERING SERVICES, shall be by the

LUMP SUM method of payment. The total amount of compensation for ADDITIONAL ENGINEERING SERVICES, as described in the appropriate EXHIBIT, shall not exceed \$ _____, excluding gross receipt tax and reimbursables.

STANDARD HOURLY RATE WITH MAXIMUM method of payment. The total amount of hourly charges, excluding gross receipt tax and reimbursable, for ADDITIONAL ENGINEERING SERVICES as described in the appropriate EXHIBIT B shall not exceed \$16,350.00 for topographic survey and \$10,500.00 for NMDOT Permit, excluding gross receipt tax and reimbursables without written approval of the OWNER.

4. The amount of compensation shall not change unless the scope of services to be provided by the ENGINEER changes and this Agreement is formally amended according to Section A-5. Contract Time under Section A. and for the purpose of Section A.8 shall be as shown on Exhibit B.

5. OWNER shall pay ENGINEER applicable gross receipt taxes and reimbursable expenses at the rates set forth in the appropriate EXHIBIT. The amounts payable to ENGINEER for reimbursable expenses will be the project related internal expenses, such as mileage, per diem and reproduction, actually incurred or allocated by ENGINEER, plus all invoiced external reimbursable expenses, including consultants, allocable to the project, the latter multiplied by a factor of 1.1. Reimbursable expenses shall not exceed the estimate in the EXHIBIT B without prior written approval of the OWNER, with Funding Agency concurrence.

6. The method for interim or partial payments, such as milestone or time & materials, shall be as detailed below:

Monthly progress billings

7. Signatures

IN WITNESS THEREOF, the parties hereto have executed, or caused to be executed, by their duly authorized officials, this Agreement in triplicate on the respective dates indicated below.

ATTEST: _____
Type Name Casandra Fresquez
Title City Clerk
Date _____

OWNER: City of Las Vegas
By: _____
Type Name Richard Trujillo
Title City Manager
Date _____

ATTEST: Robert P. Robeda
Type Name Robert P. Robeda
Title Chief Administrative Officer
Date 1-16-17

ENGINEER: Molzen-Corbin & Associates
By: Adelmo E. Archuleta
Type Name Adelmo E. Archuleta, P.E.
Title President and Owner
Address 2701 Miles Road, SE
Albuquerque, NM 87106
Date 01/16/2017

RECOMMENDED FOR APPROVAL:

[Signature]
Utility Director
Date: 3/3/17

Recommend Signature
[Signature]
Date: 3-2-17

EXHIBIT B
Design Services Scope of Work and Cost Proposal
City of Las Vegas, New Mexico
Hot Springs Water Line Replacement

2013-19

Agreement between the City of Las Vegas, New Mexico and Molzen-Corbin & Associates
for Professional Services, dated _____, 20__

A. General Description of Project Scope

1. The scope of this Project consist of approximately 7,900 feet of 16" DIP water line and 500 feet of 8" PVC water line as shown on Attachment "A".
2. Connection to existing water lines.
3. Asphalt removal and replacement.
4. Acquisition of NMDOT Permits.
5. The estimated construction cost is \$1,490,000 as shown on Attachment "B".

B. Preliminary Design Phase

1. ENGINEER shall:
 - a. Prepare Preliminary Design Phase documents consisting of final design criteria, preliminary drawings and written descriptions of the Project.
 - b. Submit two (2) sets of Preliminary Design Phase documents and opinion of probable Construction Cost to OWNER.
 - c. Preliminary Design Phase documents shall be submitted within ninety (90) calendar days of authorization to proceed with this phase.
2. ENGINEER's services under the Preliminary Design Phase shall be considered complete and subject to payment when the Preliminary Design Phase documents are approved by OWNER, AGENCY and other governmental authorities having jurisdiction.

C. Final Design Phase

1. After acceptance by OWNER and AGENCY of the Preliminary Design Phase documents and revised opinion of probable Construction Cost as determined in the Preliminary Design Phase, but subject to any OWNER-directed modifications or changes in the scope, extent, character or design requirements of or for the Project, and upon written authorization from OWNER, ENGINEER shall:

- a. On the basis of the above acceptance, direction, and authorization, prepares final Drawings and Specifications showing the scope, extent and character of the work to be performed and furnished by Contractor.
 - b. Prepare and furnish Design Documents for review and approval by OWNER, its legal counsel and other advisors, as appropriate.
 - c. Submit three (3) final copies of Design Documents within sixty (60) calendar days of authorization to proceed with this phase.
2. The number of prime contracts for Work designed or specified by ENGINEER upon which the ENGINEER's compensation has been established under this Agreement is one (1).
3. ENGINEER's services under the Final Design Phase shall be considered complete when the final Bidding Documents are approved by OWNER, AGENCY, and other governmental authorities having jurisdiction.

D. Additional Services

1. ENGINEER shall furnish or obtain from others Additional Services of the types listed below:
 - a. Provide additional field topographic survey as necessary.

E. Payments to ENGINEER for Basic Services

1. OWNER shall pay ENGINEER a Time and Materials basis the not to exceed amount of \$97,200.00 exclusive of New Mexico Gross Receipts Tax and in accordance with the description of this Exhibit.

F. Payments to ENGINEER for Additional Engineering Services

1. OWNER shall pay ENGINEER a Time and Materials basis the not to exceed amount of \$16,350.00 for the topographic survey and \$10,500.00 for the NMDOT Permit exclusive of New Mexico Gross Receipts Tax and in accordance with the description of this Exhibit.

G. Estimated Construction Phase Services and Construction Observation Services

1. The estimated construction contract time is approximately five months. A separate Task Order will be submitted to the Owner for review and approval for the Construction Phase Services and Construction Observation Services.
2. For budget purposes, the following are the estimated costs:
 - a. Construction Phase Services: \$15,000
 - b. Construction Observation: \$40,000

MOLZENCORBIN

**City of Las Vegas
Preliminary Construction Cost Estimate
Hot Springs Blvd. Water Improvements**

PRV No. 1 to San Miguel
Attachment "B"

January 16, 2017

Item No.	Description	Unit	Quantity	Unit Price	Amount
1	16-inch DIP water line including trenching and backfilling	LF	7,900	\$80.00	\$632,000.00
2	16-inch BFV	EA	10	\$5,000.00	\$50,000.00
3	8-inch PVC water line including trenching and backfilling	LF	500	\$40.00	\$20,000.00
4	8-inch gate valves	EA	10	\$2,000.00	\$20,000.00
5	Asphalt removal and replacement	SY	4,000	\$70.00	\$280,000.00
6	Connect to Existing Water Line	EA	10	\$2,500.00	\$25,000.00
7	New fire hydrant	EA	10	\$4,000.00	\$40,000.00
8	Reconnect existing water services	EA	40	\$1,500.00	\$60,000.00
9	Laboratory Testing Allowance	Allow	1	\$20,000.00	\$20,000.00
	Subtotal				\$1,147,000.00
	Contingencies @ 20%				\$229,400.00
			Subtotal		\$1,376,400.00
			NMGRT @ 8.3958%		\$115,559.79
			Total		\$1,491,959.79

Cost Estimates are conceptual in that these overall system improvements will require a detailed field survey to determine exact field conditions prior to the start of the design.

MOLZENCORBIN

City of Las Vegas
Engineering Fee Detail
Hot Springs Waterline Replacement

Attachment "C"

January 16, 2017

Item	Description	Unit	Qty	Unit Price	Amount
I	Design Phase				
	Project Engineer	Hour	40	\$140	\$5,600
	Senior Engineering Design Specialist	Hour	280	\$125	\$35,000
	Engineering Intern II	Hour	380	\$105	\$39,900
	CADD Operator	Hour	240	\$65	\$15,600
	Administrative Support	Hour	20	\$55	\$1,100
					\$97,200

Item	Description	Unit	Qty	Unit Price	Amount
II	Topographic Survey				
	Survey Technician	Hour	24	\$75	\$1,800
	GPS Survey Crew	Hour	80	\$175	\$14,000
	Mileage	Hour	1000	\$0.55	\$550
					\$16,350

Item	Description	Unit	Qty	Unit Price	Amount
III	Permits				
	Senior Engineering Design Specialist	Hour	40	\$125	\$5,000
	Engineering Intern II	Hour	40	\$105	\$4,200
	CADD Operator	Hour	20	\$65	\$1,300
					\$10,500

Work Session

CITY COUNCIL MEETING AGENDA REQUEST

DATE: 03/30/17

DEPT: Utilities Dept.

MEETING DATE: 04/12/17

DISCUSSION ITEM/TOPIC: Molzen Corbin & Associates task order – North 8th Street waterline extension.

BACKGROUND/RATIONALE: Molzen Corbin & Associates will provide engineering services for the planning and design phase of the North 8th Street waterline extension. The project entails installation of 7200 feet of 8" PVC waterline along North 8th Street. The amount of the task order is \$64,225.00 not including NMGRT.

THIS REQUEST FORM MUST BE SUBMITTED TO THE CITY CLERK'S OFFICE NO LATER THAN 5:00 P.M. ON FRIDAY ONE AND A HALF WEEKS PRIOR TO THE CITY COUNCIL MEETING.


SUBMITTER'S SIGNATURE

REVIEWED AND APPROVED BY:



TONITA GURULÉ-GIRÓN
MAYOR



RICHARD TRUJILLO
CITY MANAGER

ANN MARIE GALLEGOS
FINANCE DIRECTOR
(PROCUREMENT)

PURCHASING AGENT
(FOR BID/RFP AWARD)

CITY ATTORNEY
(ALL CONTRACTS MUST BE
REVIEWED)

Revised 4/20/16



UTILITIES DEPARTMENT PROJECT SUMMARY SHEET

PROJECT NAME: North 8th Street Waterline Extension
PROJECT NUMBER: UT-WFD-N85-2016
PROJECT MANAGER: Marvin Cordova

ENGINEER: MolzinCorbin
CONTRACT NUMBER: 2673-13

PROJECT DESCRIPTION: The scope of this project consists of 7200 feet of 8" PVC waterline along North 8th Street.

Action: Approve task order to begin design phase.

TIMELINE: March-May 2017

FUNDING SOURCES	ESTIMATED EXPENDITURES	EXPENDED to date ('17)	Est. BAL to Expend in '17
City \$70,000	Design \$65,000	Design \$0	Design \$65,000
State	Consultant Services \$36,000	Egr Services \$0.00	Egr Services \$36,000
<u>Federal</u>	<u>Construction \$496,000</u>	<u>Const \$0.00</u>	<u>Construction \$496,000</u>
Total Funds \$70,000	Total w/ GRT \$597,000	Total w/GRT \$0.00	Total w/GRT \$597,000

BUDGETED AMOUNT: \$70,000 **LINE ITEM NUMBER:** 646-0000-650-8759

ACTION	DESCRIPTION	DATE
Funding Source	CITY	
Loan/Grant/City	City \$70,000 Grant \$ Loan \$ Total \$75,000	
Authorized Ordinance		
RFP		
Engineering Services Agreement	Contract# 2673-13 Task Order No.SRF291-26 \$	
Engineering Estimate	Total Engineer's Estimate \$	
Bid Document Review	Bid #	
Advertisement		
Bid Opening	Date	
Bid Tabulation	Contractor _____ Amount _____ Contractor _____ Amount _____ Contractor _____ Amount _____ Contractor _____ Amount _____	
Construction Estimate	Contractor Share \$ _____ (Including NMGRT) City Share \$ _____	
Engineer's Recommendation	Contractor _____	
Staff Recommendation		
Committee Recommendation		
Council Approval		
Notice To Proceed		

- ATTACHMENT I** - Compensation for Engineering Services During the Planning Phase
- ATTACHMENT II** - Compensation for Engineering Services During the Design Phase
- ATTACHMENT III** - Compensation for Engineering Services During the Construction Phase
- ATTACHMENT IV** - Compensation for Engineering Services During the Operation Phase

1. As set forth in the AGREEMENT FOR ENGINEERING SERVICES dated the 16th day of Dec., 2013 by and between the City of Las Vegas, the OWNER, and Molzen-Corbin & Associates, the ENGINEER, the OWNER and ENGINEER agree this _____ day of _____, 2016 that the OWNER shall compensate the ENGINEER for services described in Section B and Section C and further described in

- EXHIBIT A** – Planning Services scope of work and cost proposal
- EXHIBIT B** – Design Services scope of work and cost proposal
- EXHIBIT C** – Construction Services scope of work and cost proposal
- EXHIBIT D** – Operational Services scope of work and cost proposal

2. Compensation for ENGINEERING SERVICES shall be by the

- LUMP SUM** method of payment. The total amount of compensation for ENGINEERING SERVICES, as described in the appropriate EXHIBIT, shall not exceed \$_____ excluding gross receipt tax and reimbursables.
- STANDARD HOURLY RATE WITH MAXIMUM** method of payment. The total amount of hourly charges, excluding gross receipt tax and reimbursables, for ENGINEERING SERVICES as described in the appropriate EXHIBIT shall not exceed \$42,450.00 without prior written approval of the OWNER, with Funding Agency concurrence.

3. Compensation for ADDITIONAL ENGINEERING SERVICES, shall be by the

- LUMP SUM** method of payment. The total amount of compensation for ADDITIONAL ENGINEERING SERVICES, as described in the appropriate EXHIBIT, shall not exceed \$_____, excluding gross receipt tax and reimbursables.
- STANDARD HOURLY RATE WITH MAXIMUM** method of payment. The total amount of hourly charges, excluding gross receipt tax and reimbursable, for ADDITIONAL ENGINEERING SERVICES as described in the appropriate EXHIBIT B shall not exceed \$21,775.00 without prior written approval of the OWNER. (topographic survey)

4. The amount of compensation shall not change unless the scope of services to be provided by the ENGINEER changes and this Agreement is formally amended according to Section A-5. Contract Time under Section B. and for the purpose of Section A.8 shall be as shown on Exhibit B.

5. OWNER shall pay ENGINEER applicable gross receipt taxes and reimbursable expenses at the rates set forth in the appropriate EXHIBIT. The amounts payable to ENGINEER for reimbursable expenses will be the project related internal expenses, such as mileage, per diem and reproduction, actually incurred or allocated by ENGINEER, plus all invoiced external reimbursable expenses, including consultants, allocable to the project, the latter multiplied by a factor of 1.1. Reimbursable expenses shall not exceed the estimate in the EXHIBIT B without prior written approval of the OWNER, with Funding Agency concurrence.

6. The method for interim or partial payments, such as milestone or time & materials, shall be as detailed below:

Monthly progress billings

7. Signatures

IN WITNESS THEREOF, the parties hereto have executed, or caused to be executed, by their duly authorized officials, this Agreement in triplicate on the respective dates indicated below.

ATTEST: _____
Type Name Casandra Fresquez
Title City Clerk
Date _____

OWNER: City of Las Vegas
By _____
Type Name Richard Trujillo
Title City Manager
Date _____

ATTEST: Robert P. Robeda
Type Name Robert P. Robeda
Title Chief Administrative Officer
Date 7/17/16

ENGINEER: Molzen-Corbin & Associates
By Adelmo E. Archuleta
Type Name Adelmo E. Archuleta, P.E.
Title President and Owner
Address 2701 Miles Road, SE
Albuquerque, New Mexico 87106
Date 7/17/16

Recommend Signature
Is. to 7-29-16
Date: 7-29-16

Recommend Signature
3/7/17
Date: 3/7/17

EXHIBIT B
Design Services Scope of Work and Cost Proposal
City of Las Vegas, New Mexico
North 8th Street Waterline Extension

Agreement between the City of Las Vegas, New Mexico and Molzen-Corbin & Associates
for Professional Services, dated _____, 20____

SRF2911-26

B.1 Basic Services

General Description of Project Scope

1. The general components involved in this project are as follows:
 - a. Approximately 7200 feet of 8" PVC waterline along North 8th Street (San Miguel County Road A11A) from J-699 to J-72 as shown on Attachment "A"
 - b. The new waterline will be located east side of the existing pavement in the east shoulder.
 - c. One PRV Station at J-699.
 - d. Connection to the existing 16" CCP Medite waterline.

2. The estimated construction cost is approximately \$495,000 (Attachment "B")

B.2 Preliminary Design Phase

- (1) ENGINEER shall:
 - a. Prepare Preliminary Design Phase documents consisting of final design criteria, preliminary drawings, outline specifications and written descriptions of the Project.
 - b. Based on the information contained in the Preliminary Design Phase documents, submit an opinion of probable Construction Cost.
 - c. Submit two (2) sets of Preliminary Design Phase documents and opinion of probable Construction Cost to OWNER and AGENCY for review by and with OWNER and AGENCY.
 - d. Preliminary Design Phase documents shall be submitted within sixty (60) calendar days of authorization to proceed with this phase.

- (2) ENGINEER's services under the Preliminary Design Phase shall be considered complete and subject to payment when the Preliminary Design Phase documents are approved by OWNER, AGENCY and other governmental authorities having jurisdiction.

B.3 Final Design Phase

- (1) After acceptance by OWNER and AGENCY of the Preliminary Design Phase documents and revised opinion of probable Construction Cost as determined in the Preliminary

Design Phase, but subject to any OWNER-directed modifications or changes in the scope, extent, character or design requirements of or for the Project, and upon written authorization from OWNER, ENGINEER shall:

- a. On the basis of the above acceptance, direction, and authorization, prepares final Drawings and Specifications showing the scope, extent and character of the work to be performed and furnished by Contractor.
- b. Advise OWNER of any adjustments to the opinion of probable Construction Cost.
- c. Prepare and furnish Bidding Documents for review and approval by OWNER, its legal counsel and other advisors, as appropriate, and AGENCY, and assist OWNER in the preparation of other related documents. If applicable, Bidding Documents will comply with AGENCY's requirements in effect as of the date of this Agreement.
- d. Submit two (2) final copies of the Bidding Documents and a revised opinion of probable Construction Cost to OWNER and AGENCY within thirty(30) calendar days of authorization to proceed with this phase.

- (2) ENGINEER's services under the Final Design Phase shall be considered complete when the final Bidding Documents are approved by OWNER, AGENCY, and other governmental authorities having jurisdiction.

B.4 Additional Services

- (1) ENGINEER shall furnish or obtain from others Additional Services of the types listed below.
 - a. Topographic Survey
 - b. Geotechnical Testing
 - c. San Miguel County Permit

B.5 Payments to ENGINEER for Basic Services

- a. OWNER shall pay ENGINEER on a time and material basis for a not to exceed amount of \$ 42,450.00 exclusive of New Mexico Gross Receipts Tax for Design Phase. (Attachment "C")
- b. In accordance with Section A, Paragraph 7, ENGINEER will submit monthly invoices for services rendered.

B.6 Payments to ENGINEER for Additional Services

- a. OWNER shall pay ENGINEER on a time and materials basis for a not to exceed amount of \$ 8,775.00 exclusive of New Mexico Gross Receipts Tax for the Topographic Survey. (Attachment "C")

- b. OWNER shall pay ENGINEER on a time and materials basis for a not to exceed amount of \$ 5,000.00 exclusive of New Mexico Gross Receipts Tax for the San Miguel County Permit.
- c. OWNER shall pay ENGINEER on a time and materials basis for a not to exceed amount of \$ 8,000.00 exclusive of New Mexico Gross Receipts Tax for Geotechnical Testing.
- d. In accordance with Section A, Paragraph 7, ENGINEER will submit monthly invoices for services rendered.

B.7 Estimated Construction Phase Services and Construction Observation Services

The estimated construction contract time is approximately three months.

A separate Task Order will be submitted to the Owner for review and approval for the Construction Phase Services and Construction Observation Services.

For budget purposes, the following are the estimated costs:

1. Construction Phase Services: \$9,000
2. Construction Observation: \$24,000



NEW 8th

700th

NEW 8th

NORTH 8TH ST.



NT.S.

GOOGLE

ATTACHMENT A

6/23/16

TRK

Imager: Date: 6/25/2014 35°36'25.80" N 105°14'51.55" W Box 6072

MOLZENCORBIN

City of Las Vegas
North 8th Street Waterline Extension

Preliminary Construction Cost Estimate

June 23, 2016

Attachment "B"

Item No.	Description	Unit	Quantity	Unit Price	Amount
1	8" PVC water line including trenching and backfilling	LF	7200	\$ 40.00	\$ 288,000.00
2	8" gate valve with valve box	EA	6	\$ 2,400.00	\$ 14,400.00
3	12" DIP water line including trenching and backfilling	LF	40	\$ 60.00	\$ 2,400.00
4	12" gate valve with valve box	EA	2	\$ 3,000.00	\$ 6,000.00
5	PRV Station	EA	1	\$ 30,000.00	\$ 30,000.00
6	Connect to existing 16" CCP Waterline	LS	2	\$ 5,000.00	\$ 10,000.00
7	Utility Relocation Allowance	ALLOW	1	\$ 20,000.00	\$ 20,000.00
8	Laboratory Testing Allowance	ALLOW	1	\$ 10,000.00	\$ 10,000.00
Sub-Total					\$ 380,800.00
Undefined Elements @ 20%					\$ 76,160.00
Sub-Total					\$ 456,960.00
Gross Receipts Tax @8.3958%					\$ 38,365.45
Total Estimated Construction Cost					\$ 495,325.45

MOLZENCORBIN

City of Las Vegas Engineering Fee Detail North 8th Street Waterline Extension

Attachment "C"

June 23, 2016

Item	Description	Unit	Qty	Unit Price	Amount
I	Design Phase				
	Project Engineer	Hour	30	\$140	\$4,200
	Senior Engineering Design Specialist	Hour	260	\$125	\$32,500
	CADD Operator	Hour	80	\$65	\$5,200
	Administrative Support	Hour	10	\$55	\$550
					\$42,450

Item	Description	Unit	Qty	Unit Price	Amount
II	Topographic Survey				
	Survey Technician	Hour	20	\$75	\$1,500
	GPS Survey Crew	Hour	40	\$175	\$7,000
	Mileage	Hour	500	\$0.55	\$275
					\$8,775

Work Session

CITY COUNCIL MEETING AGENDA REQUEST

DATE: 03/30/17

DEPT: Utilities Dept.

MEETING DATE: 04/12/17

DISCUSSION ITEM/TOPIC: Water Treatment Plant Sodium Hypochlorite disinfection system.

BACKGROUND/RATIONALE: The current disinfection system at the Water Treatment Plant is the MIOX system. The MIOX system is a proprietary system and has been experiencing failures. The new Sodium Hypochlorite disinfection system is not a proprietary system and repair parts for this system can be purchased off the shelf. The cost of the system is \$491,024.00.

THIS REQUEST FORM MUST BE SUBMITTED TO THE CITY CLERK'S OFFICE NO LATER THAN 5:00 P.M. ON FRIDAY ONE AND A HALF WEEKS PRIOR TO THE CITY COUNCIL MEETING.


SUBMITTER'S SIGNATURE

REVIEWED AND APPROVED BY:



TONITA GURULÉ-GIRÓN
MAYOR


RICHARD TRUJILLO
CITY MANAGER

ANN MARIE GALLEGOS
FINANCE DIRECTOR
(PROCUREMENT)

PURCHASING AGENT
(FOR BID/RFP AWARD)

CITY ATTORNEY
(ALL CONTRACTS MUST BE
REVIEWED)

Revised 4/20/16



UTILITIES DEPARTMENT PROJECT SUMMARY SHEET

PROJECT NAME: Onsite Hypochlorite Generation System
PROJECT NUMBER: UT-WTPSI-OHGS
PROJECT MANAGER: Benito

ENGINEER: HDR
CONTRACT NUMBER: 2676-13

PROJECT DESCRIPTION: The scope of this project consist of replacing aging and failing Miox System at the Water Treatment Plant with Hypochlorite Generation System.

ACTION: Approval of Disinfection System Installation

TIMELINE: April-June 2017

FUNDING SOURCES	ESTIMATED EXPENDITURES	EXPENDED to date ('17)	Est. BAL to Expend in '17
City \$500,000	Design	Design \$ 0	Design \$
State	Consultant Services \$0.00	Egr Services \$0.00	Egr Services \$
Federal	Construction \$492,000	Const \$0.00	Construction \$ 492,000
Total Funds \$500,000	Total w/ GRT \$500,000	Total w/GRT \$0.00	Total w/GRT \$ 500,000

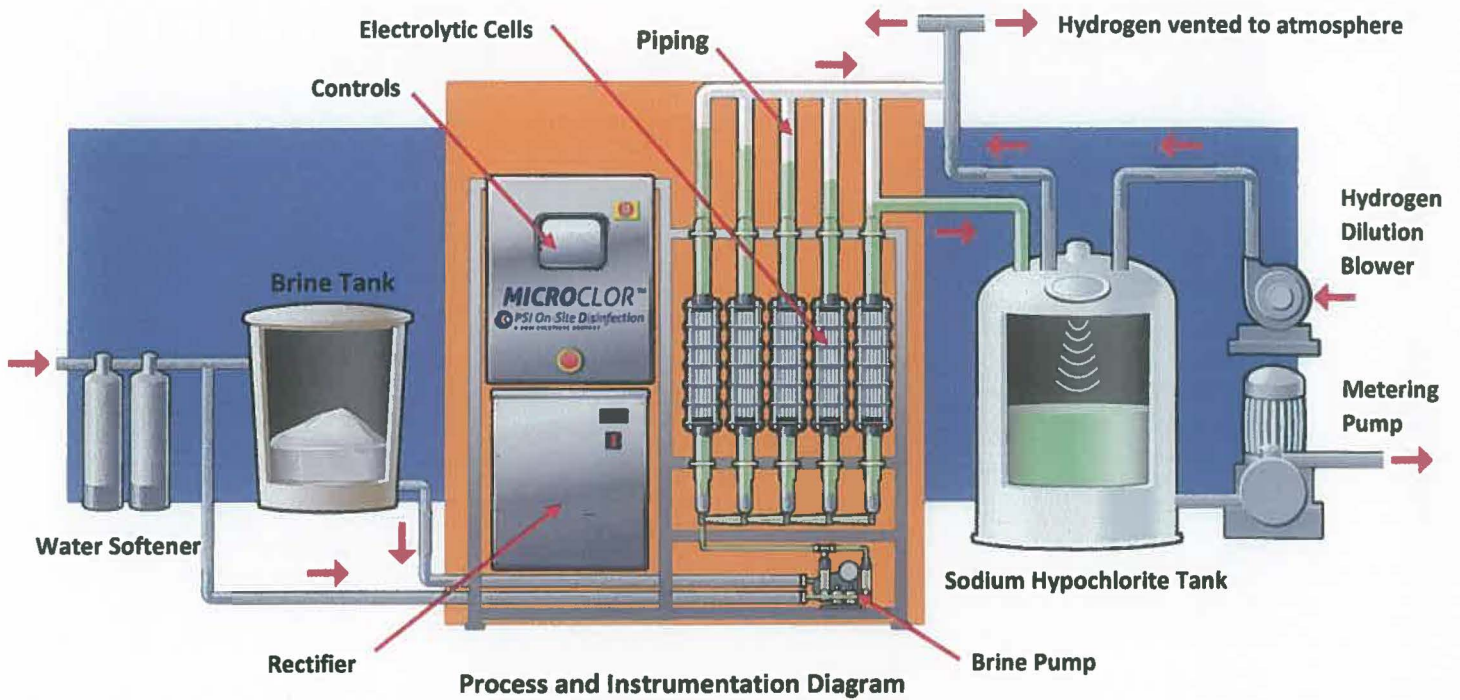
BUDGETED AMOUNT: \$500,000 **LINE ITEM NUMBER:** TBD

ACTION	DESCRIPTION	DATE
Funding Source	CITY	
Loan/Grant/City	City \$500,000 Grant \$ Loan \$ Total \$500,000	
Authorized Ordinance		
RFP		
Engineering Services Agreement	Contract# ___ Task Order# ___ \$ ___	
Engineering Estimate	Total Engineer's Estimate \$ ___	
Bid Document Review	Bid #	
Advertisement		
Bid Opening	Date	
Bid Tabulation	Contractor _____ Amount _____ Contractor _____ Amount _____ Contractor _____ Amount _____ Contractor _____ Amount _____	
Construction Estimate	Contractor Share \$ _____ (Including NMGRT) City Share \$ _____	
Engineer's Recommendation	Contractor _____	
Staff Recommendation		
Committee Recommendation		
Council Approval		
Notice To Proceed		

City of Las Vegas
Onsite Hypochlorite Generation Systems

Overview

The on-site hypochlorite generation (OSHG) systems will be two identical 100 pound per day skid-mounted systems. They will consist of electrolytic cells, a rectifier, brine pump, piping, valves, instrumentation, and controls. Each system will be pre-assembled, piped, wired, and factory-tested to facilitate simple installation and startup at the jobsite. Ancillary equipment necessary to make a complete and functional system will include a hydrogen dilution blower, water softener, water and brine filters, brine tank, hypochlorite storage tank, and metering pump.



The OSHG System incorporates the following features:

- 1) Skid-mounted with vertical cell design and union connections allowing for simple cell maintenance and replacement
- 2) Pre-assembled, piped, wired, and tested at the factory prior to shipment.
- 3) Hydrogen management is critical in the design of this project. Therefore, hydrogen may never be contained or pressurized in the cell for safety reasons. Additionally, the system will incorporate passive hydrogen removal to increase operator safety.

- 4) The cell will be of vertical configuration to provide for immediate and passive hydrogen gas venting. Each cell will be mounted on a cell loop that will allow for increased electrolyte flow and multiple passes through the cell, immediately venting the hydrogen gas at each pass. This also prevents gas blinding of the electrodes.
- 5) Each cell will have dedicated level and temperature safety switches. Safety switches may not be located in the scaling environment of the cell. Mechanical float switches are not allowed.
- 6) For system reliability, the generator will have a multi cell configuration and have the ability to remove a cell from the system and continue to operate at 80% of capacity.
- 7) Replacement cells will be available for next day delivery or counter to counter delivery on a major airline.
- 8) The rectifier will be a full wave DC rectifier with fixed voltage and a 99% power factor. Constant current will be maintained by brine conductivity control. Constant current rectifiers will not be allowed.
- 9) Salt efficiency will be maximized by variable speed brine pump controlled by current feedback loop
- 10) A Constant current automated variable speed brine pump will be included.
- 11) Replacement cells will be available for next day delivery or counter to counter delivery on a major airline.
- 12) All components except for the cell will be commercially available.
- 13) Cell design will preclude the need for wet DC cable connections for internal baffles and gasketing

EQUIPMENT & COSTS

All equipment will be manufactured in accordance with PSI's standard equipment.

<u>No</u>	<u>Item</u>	<u>Description</u>	<u>Qty.</u>
1		Skid-Mounted, Pre-Assembled, Piped, Wired, and Factory-Tested Microchlor[®] MC-100 On-Site Hypochlorite Generation System,	2
		<ul style="list-style-type: none"> • 20 ppd Electrolytic Cell (Qty. 5) • Stainless Steel Brine Gear Pump • Water and Brine Rotameters • Magnetic Flow Meter • Optical Level Switch (Qty. 5) • Temperature Switch (Qty. 4) • Temperature Sensor • Water Solenoid Valve • 304 Stainless Steel, Electropolished Open Frame Equipment Skid 	

No	Item Description	Qty.
2	Skid-Mounted Transformer Rectifier	2
	<ul style="list-style-type: none"> • NEMA 1 Enclosure – 304 Stainless Steel Construction • 12 kVA Step-Down Transformer – 300 VDC @ 40 A • DC Bridge Rectifier with Diode Assemblies and Aluminum Heat Sink with Cooling Fan • DC Current Transducer • Panel-Mounted Disconnect Switch 	
3	Skid-Mounted Generator Control Panel	2
	<ul style="list-style-type: none"> • NEMA 4X Enclosure – 304 Stainless Steel Construction • Allen-Bradley MicroLogix 1400 Programmable Logic Controller with Ethernet Communication • 6" Color Touchscreen HMI • 24 VDC Power Supply • Emergency Stop Pushbutton • Panel-Mounted Disconnect Switch 	
4	Master Control Panel	1
	<ul style="list-style-type: none"> • NEMA 4X Enclosure – 304 Stainless Steel Construction • Allen-Bradley MicroLogix 1400 Programmable Logic Controller with Ethernet Communication • 8" Color Touchscreen HMI • 24 VDC Power Supply • Motor Starters for Hydrogen Dilution Blowers • Emergency Stop Pushbutton • Panel-Mounted Disconnect Switch 	
5	Hydrogen Dilution Blower for Generator	2
	<ul style="list-style-type: none"> • 110 cfm Maximum Volumetric Flow Rate • TEFC Motor • Current Sensor • Differential Pressure Switch 	
6	Hydrogen Dilution Blower for Tank	2
	<ul style="list-style-type: none"> • 75 cfm Maximum Volumetric Flow Rate • TEFC Motor • Current Sensor • Differential Pressure Switch 	

No	Item Description	Qty.
7	Cartridge Filters	5
8	Dual Tank Water Softener	3
	<ul style="list-style-type: none"> • Kinetico Model CP 208s 	
9	Hypochlorite Storage Tank	1
	<ul style="list-style-type: none"> • HDLPE Construction • 710 Gallon Capacity • Ultrasonic Level Control • Top Manway • Dimensions: 5'-0" D x 5'-8"H 	
10	Hypochlorite Dosing Assembly	1
	<ul style="list-style-type: none"> • Metering Pump, 317 GPH @ 45 PSI with TEFC Inverter-Duty • Motor (Duty/Standby) • NEMA 4X Variable Frequency Drive (Qty. 2) • Calibration Column • Pressure Relief Valve • Backpressure Valve • Pulsation Dampener • Wye Strainer • Pressure Gauge • PVC Pump Stand (Qty. 2) 	
11	Heat Exchanger	2
	<ul style="list-style-type: none"> • 4" Shell • Titanium Construction • Teflon and Kynar Interconnection 	
12	Acid Cleaning Cart	1
	<ul style="list-style-type: none"> • Polyethylene Tank • Reversible Pump • Portable Cart 	
13	Spare Parts	1
	<ul style="list-style-type: none"> • Cell Level Switch • Cell Temperature Sensor • Cell Temperature Switch 	

No	Item Description	Qty.
14	Field Services (5 Days at the Jobsite)	1
	<ul style="list-style-type: none"> • Installation Inspection • System Start-Up • Operator Training Included 	
15	Design Submittals and Operation & Maintenance Manuals	1
	<ul style="list-style-type: none"> • Submittal: Sent Electronically • O&M Manual: Sent Electronically 	
16	Brine Storage Tank	1
	<ul style="list-style-type: none"> • Pneumatic Fill • FRP Construction • 22 Ton Capacity • Stainless Steel Salt Fill Tube • Level Control Assembly • Dust Collection Assembly • Salt Level Indication • Under Drain with Valve • Top and Side Manways • Ladder with Safety Cage • Heat Tracing and Insulation • Dimensions: 8'-0"D x 15'-0"H 	
17	Full Freight Allowed to Jobsite, Las Vegas, NM	Included

ESTIMATED COST FOR EQUIPMENT [ITEMS 1-18]

\$362,500

ALPHA SOUTHWEST, INC. LABOR & MATERIALS (Based on new contract)

Demolition (120 hours estimated)

- 1. Remove MIOX System, tanks, associated piping, and electrical **\$9,000**

Installation

Materials Estimate \$27,745

- 1. Anchor bolts and seismic restraints.
- 2. All interconnecting piping, including between brine tank, OSHG skid, hypochlorite tank, metering pumps and accessories, and point of hypochlorite injection.
- 3. Valves, fittings, appurtenances
- 4. Heat tracing and insulation of all interconnecting piping, if required.
- 5. Electrical power to control panel (120/208-240V/1Ph/60Hz for 20A), transformer rectifier (460V/3Ph/60Hz for 20A), and metering pump variable frequency drives (208-240V/1Ph/60Hz for 10A).
- 6. All electrical conduit, wiring, electrical material, etc. between control panel, brine tank, OSHG skid, hypochlorite tank, metering pumps, SCADA, etc.

Labor Estimate (480 hours estimated) \$36,000

- 1. Equipment unloading and installation
- 2. All civil works and concrete pad for equipment
- 3. Any underground or structural work.
- 4. Any permitting or regulatory approvals

Travel (per contract, for 8 weeks) \$6,244

Lodging (per contract for 8 weeks) \$5,760

Electrical & Mechanical Drawings as Built \$3,000

ESTIMATED COST FOR DEMO & EQUIPMENT INSTALLATION \$87,749

SUMMARY

ESTIMATED COST FOR EQUIPMENT [ITEMS 1-18]	\$362,500
<u>ESTIMATED COST FOR DEMO & EQUIPMENT INSTALLATION</u>	<u>\$87, 749</u>
GRAND TOTAL	\$450,249
<u>Contingency (10%)</u>	<u>\$ 40,775</u>
PROJECTED PROJECT COST	\$491.024

TIMELINE

- | | |
|--|---------|
| 1. Alpha Southwest order processing | 1 week |
| 2. Equipment lead time from manufacturer | 8 weeks |
| 3. Materials order | 2 weeks |
| 4. Demolition | 2 week |
| 5. Installation | 6 weeks |
| 6. Cutover and transition | 1 week |

Note: Items 1-3 can occur concurrently. The cutover and transition will need to be reviewed and planned to allow for a minimum disruption and to ensure that the City of Las Vegas has an adequate chlorination capability.

Recommend Signature:



Maria Gilvarry, Utilities Director Date

Approved / Disapproved

Richard Trujillo, City Manager Date