



**CITY OF LAS VEGAS**  
1700 North Grand Avenue  
Las Vegas, New Mexico 87701  
Phone: (505) 454-1401 Fax: (505) 454-8027

# PURCHASE ORDER

**PO Number:** 231788

**Date:** 06/02/2023

**Request #:** 302477

**Vendor #:** 00352

**ISSUED TO:** MOLZEN CORBIN & ASSOCIATES  
2701 MILES ROAD SE  
SUITE 200  
ALBUQUERQUE, NM 87106

**SHIP TO:** City of Las Vegas  
Attn:Utilities Department  
905 12th Street  
Las Vegas, NM 87701

**Vendor Fax #:** (505) 242-0673

ITEM	UNITS	DESCRIPTION	PRICE	PROJ	GL ACCOUNT NUMBER	AMOUNT
1	0	ENGINEERING SERVICES \$521,425.00 NMGR \$40,410.44 13-1-127	0.00		646-0000-650-8809	497,646.37

DEPARTMENT ORDER

**Approved By:**

**Date:**

6/6/23

<b>SUBTOTAL:</b>	497,646.37
<b>TAX:</b>	0.00
<b>SHIPPING:</b>	0.00
<b>TOTAL</b>	497,646.37

1. Original invoice plus one copy must be sent to: City of Las Vegas, 1700 North Grand Avenue, Las Vegas, NM 87701.
2. Payment may be expected within 30 days of receipt of goods, unless otherwise stated.
3. C.O.D. shipment will not be accepted.
4. Purchase Order numbers must appear on all shipping containers, packing slips and invoices. Failure to comply with the above request may delay payment.
5. All goods are to be shipped F.O.B. Destination unless otherwise stated.
6. All materials and services are subject to approval based on the description on the face of the purchase order or appendages thereof. Substitutions are not permitted without approval of the Requesting Department. Material not approved will be returned at no cost to the City.
7. All goods and equipment must meet or exceed all necessary city, state and federal standards and regulations.
8. Vendor or manufacturer bears risk of loss or damage until property received and/or installed.
9. Seller acknowledges that the buyer is an equal opportunity employer. Seller will comply with all equal opportunity laws and regulations that are applicable to it as a supplier of the buyer.
10. The City is exempt from all federal excise and state tax - ID# 85-6000149

**Finance Dept. (505) 454-1401 FAX (505) 454-8027**

STATE OF NEW MEXICO  
EMERGENCY DETERMINATION FORM

The emergency procurement method (NMSA 1978, Section 13-1-127) may only be used when there exists a threat to public health, welfare, safety or property requiring procurement under emergency conditions. The existence of the emergency condition creates an immediate and serious need for services, construction or items of tangible personal property that cannot be met through normal procurement methods and the lack of which would seriously threaten:

1. the functioning of government;
2. the preservation or protection of property; or
3. the health or safety of any person.

*I.* Name of Agency: **City of Las Vegas**

Agency Chief Procurement Officer: ***Helen Vigil***

Telephone Number: ***505-454-1401***

*II.* Name of Contractor: **Molzen Corbin**

Address of Contractor:

***2701 Miles Road SE, Albuquerque, NM 87106***

Amount of prospective contract: \$497,646.37

Term of prospective contract: Until contract from the RFP is in place

*III.* Please thoroughly list the services (scope of work), construction or items of tangible personal property of the contract:

***Planning and Design of Canyon Sediment Removal System. See attached task order***

*IV.* Provide an explanation for the justification of the procurement including a description of the emergency condition(s) requiring use of emergency procurement and the practicable competition utilized in compliance with NMSA 1978, Section 13-1-127.

***Planning and design of the Canyon Sediment Removal System was in progress when current contract that was procured under RFP was determined to be invalid. Need to continue with the scope of work in progress without delay to address the water quality issues from ash.***


- V. Please describe what measures are being taken to minimize the duration and effect of this particular emergency procurement (for example: is the emergency only in place until a competitive process can be completed, etc.).

*We are awaiting on the RFP procurement process for future scope of work.*

- VI. Describe what measures the Agency will take in the future to prevent/mitigate use of an emergency procurement under similar circumstances.

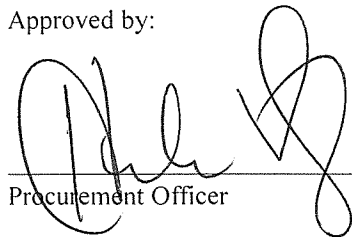
*Contracts are reviewed regularly and tracked to approve addendums well before contract expiration.*

Certified by:

  
Department Director

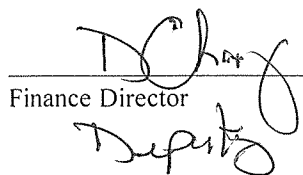
Date: 6/1/23

Approved by:

  
Procurement Officer

Date: 6/1/2023

Approved:

  
Finance Director

Date: 6/2/23

## CITY OF LAS VEGAS REQUISITION FOR PURCHASE

PURCHASE ORDER NO.: **302477**

REQUIREMENTS

CHECK APPROPRIATE BOX

DATE:

**6/1/2023**

PURCHASES INDER RESOLUTION #14-18 STATE PROCUREMENT CODE:

Dept. Order

- ☐ \$0 TO \$19,999.99 Best Obtainable Price; Requires 3 telephoned, written, faxed or e-mailed quotes;
- ☐ \$20,000.00 TO \$59,999.99 Requires 3 written and signed quotes; (Goods or services)
- ☐ \$60,000.00 AND OVER Formal Process (Requires RFQ, RFP, RFB, etc.)

☐ BID NO.: \_\_\_\_\_ - \_\_\_\_\_ AWARDED: \_\_\_\_/\_\_\_\_/\_\_\_\_; CONTRACT NO.: \_\_\_\_\_ EXPIRES: \_\_\_\_/\_\_\_\_/\_\_\_\_  
(RECORD BID NUMBER, AWARDED DATE, AND CONTRACT NUMBER ABOVE)

☐ SPD CONTRACT; SPD NO.: \_\_\_\_\_ EXPIRES: \_\_\_\_/\_\_\_\_/\_\_\_\_

☐ EXEMPT PURCHASE; Provide Section No.: \_\_\_\_\_

☐ GSA CONTRACT; GSA NO.: \_\_\_\_\_ - \_\_\_\_\_ EXPIRES: \_\_\_\_/\_\_\_\_/\_\_\_\_

☐ PROFESSIONAL SERVICES; \_\_\_\_\_

☐ SOLE SOURCE: REQUIRES DETERMINATION AND MUST BE POSTED ON CLV WEBSITE FOR 30 DAYS  
PRIOR TO PROCURING GOODS AND/OR SERVICES.

☐ OTHER CITY CONTRACT: NO: \_\_\_\_\_ EXPIRES: \_\_\_\_/\_\_\_\_/\_\_\_\_

☒ EMERGENCY; \_\_\_\_\_ SECTIONS 13-1-127 STATE PRODUREMENT CODE

STATEMENT OF NEED: (Must Complete)

**Professional Services to design a sediment removal facility**

\* IN COMPLIANCE WITH THE PROCUREMENT CODE # 14-18 THE FOLLOWING QUOTES WERE OBTAINED\*

DATE	NAME OF VENDOR	PHONE NUMBER	PERSON CONTACTED	PRICE QUOTED

(If needed, attach additional quote documentation to this requisition)

LINE	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	SUB TOTAL
	1	ea	Engineering Services	\$521,425.00	
	1	ea	NMGRT (7.7500)	\$40,410.44	
			Refer to PO 231333		

VENDOR: **Molzen Corbin & Associates**

TOTAL: \$

**\$497,646.37**ADDRESS: **6100 Seagull St NE, Suite 102B Albuquerque NM 87109-2500**

NM CRS NO.:

FEDERAL TAX NO.:

I CERTIFY THAT THIS PURCHASE IS NECESSARY AND THAT THE REQUESTED ITEMS WILL BE PURCHASED AT THE LOWEST BID OR BEST OBTAINABLE PRICE.

BUDGET \$ \_\_\_\_\_

EXPENDED TO DATE \$ \_\_\_\_\_

CURRENT EXPENSE \$ \_\_\_\_\_

BALANCE \$ **156**

SIGNATURE OF PERSON REQUESTING

**646-0000-650-8809**

FUND

DEPARTMENT

ACTIVITY

APPROVED BY: **DChang 6/2/23**

BUDGET AVAILABLE YES: \_\_\_\_\_ NO: \_\_\_\_\_

WHITE COPY: ACCOUNTS PAYABLE

YELLOW COPY: PURCHASING

PINK COPY: DEPARTMENT



**CITY OF LAS VEGAS**  
1700 North Grand Avenue  
Las Vegas, New Mexico 87701  
Phone: (505) 454-1401 Fax: (505) 454-8027

# PURCHASE ORDER

**PO Number:** 231333

**Date:** 02/27/2023

**Request #:** 301818

**Vendor #:** 00352

**ISSUED TO:** MOLZEN CORBIN & ASSOCIATES  
2701 MILES ROAD SE  
SUITE 200  
ALBUQUERQUE, NM 87106

**SHIP TO:** City of Las Vegas  
Attn: Utilities Department  
905 12th Street  
Las Vegas, NM 87701

**Vendor Fax #:** (505) 242-0673

ITEM	UNITS	DESCRIPTION	PRICE	PROJ	GL ACCOUNT NUMBER	AMOUNT
1	0	ENGINEERING SERVICES DESIGN CANYON SEDIMENT REMOVAL FACILITY	0.00		646-0000-650-8809	521,425.00
2	0	NMGRT (7.7500) BID NO- 2022-9 AWARDED-10/13/21 CONTRACT NO- 3816-21 ADDENDUM 1 EXPIRES 10/22/23	0.00		646-0000-650-8809	40,410.44

DEPARTMENT ORDER

**Approved By:**

**Date:** 3/1/2023

<b>SUBTOTAL:</b>	561,835.44
<b>TAX:</b>	0.00
<b>SHIPPING:</b>	0.00
<b>TOTAL</b>	561,835.44

1. Original invoice plus one copy must be sent to: City of Las Vegas, 1700 North Grand Avenue, Las Vegas, NM 87701.
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6. All materials and services are subject to approval based on the description on the face of the purchase order or appendages thereof. Substitutions are not permitted without approval of the Requesting Department. Material not approved will be returned at no cost to the City.
7. All goods and equipment must meet or exceed all necessary city, state and federal standards and regulations.
8. Vendor or manufacturer bears risk of loss or damage until property received and/or installed.
9. Seller acknowledges that the buyer is an equal opportunity employer. Seller will comply with all equal opportunity laws and regulations that are applicable to it as a supplier of the buyer.
10. The City is exempt from all federal excise and state tax - ID# 85-6000149

**Finance Dept. (505) 454-1401 FAX (505) 454-8027**

3816-21

City of Las Vegas

Date

**Water Treatment Plant Retainer Services****City of Las Vegas Contract No. 3816-21-4 Upper Canyon Sediment Removal****Design**

- ☐ **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 31<sup>st</sup> day of October 2021 by and between the City of Las Vegas, the OWNER, and Molzen-Corbin & Associates, the ENGINEER, the OWNER and ENGINEER agree this 23<sup>rd</sup> day of January 2023 that the OWNER shall compensate the ENGINEER for services 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 \$ N/A excluding gross receipt tax and reimbursables.

☒ **STANDARD HOURLY RATE WITH MAXIMUM** method of payment. The total amount of hourly charges, excluding gross receipt tax, for ENGINEERING SERVICES as described in the appropriate EXHIBIT shall not exceed \$381,510.00 for Engineer's Services and \$2,415.00 for Reimbursables without prior written approval from the OWNER.

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 \$ N/A excluding gross receipt tax and reimbursables for the topographic survey.

☒ **STANDARD HOURLY RATE WITH MAXIMUM** method of payment. The total amount of hourly charges, excluding gross receipt tax, for ADDITIONAL ENGINEERING SERVICES as described in EXHIBIT B shall not exceed \$137,500.00 for Additional Engineering Services without prior written approval from 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.


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 appropriate EXHIBIT 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: 1/26/23

OWNER: City of Las Vegas

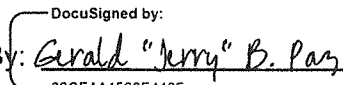
By: 

Name: Leo Maestas

Title: City Manager

Date: 1/26/23

ENGINEER: Molzen-Corbin & Associates

DocuSigned by:  
By:   
82CFAA1568E446F

Type Name: Gerald "Jerry" B. Paz, P.E.

Title: Chief Operating Officer

Date: January 26, 2023 | 5:48 PM CST

*Reimbursement Approval* 



**EXHIBIT B**  
**Design Services Scope of Work and Cost Proposal**  
**City of Las Vegas, New Mexico**  
**Upper Canyon Sediment Removal Design**

**Task Order 3816-21-4 – Water Treatment Plant Retainer**

Agreement between the City of Las Vegas, New Mexico, and Molzen-Corbin & Associates  
for Professional Services, dated October 31, 2021

**General Description of Project Scope**

The City has requested Design Professional Services for sediment removal facilities in the upper canyon, just downstream of their Water Treatment Plant's (WTP) diversion structure. The City has requested that this treatment unit be automated to allow for minimal operator oversight and maintenance. We understand this treatment facility will be used on an intermittent basis to account for high concentrations of debris (ash, sediment, etc.) in the Gallinas River.

**Basic Services**

**Preliminary Scoping Phase (10% Delivery).**

1. ENGINEER shall begin this phase of the project upon receipt of all signatures on the page of this Task order preceding the first page of this Exhibit B.
2. ENGINEER shall prepare a scoping document that evaluates the efficacy of the pre-treatment system including, a hydraulic profile evaluation, a subsurface exploration of the existing piping, a geotechnical investigation of the surrounding soils, and a general layout of the proposed clarification unit (Actiflo) and associated piping/equipment.
3. ENGINEER shall prepare a preliminary site plan and cost estimate for review and comment by OWNER.
4. ENGINEER shall deliver two (2) hard copies and/or one (1) electronic copy of Preliminary Scoping Phase documents within sixty (60) days of receipt of a signed Task Order.
5. Engineer's services under the Preliminary Scoping Phase shall be considered complete and subject to payment when the Preliminary Scoping Phase documents are approved by OWNER.

**Preliminary Design Phase (30% Delivery).**

1. ENGINEER shall begin this phase of the project upon receipt of comments and/or authorization to proceed with the 30% Preliminary Design Phase from the OWNER.
2. ENGINEER shall prepare preliminary plans, specifications, and opinion of probable construction cost for review by the OWNER.
3. Preliminary plans shall include the following plan sheets:
  - a. Cover, General Notes/Project Location, Existing Conditions, Demolition/Removal Plan(s), Proposed Conditions, Miscellaneous Details.



4. Preliminary Specifications shall include the following:
  - a. Preliminary front ends (utilizing the general "low bidder" format), preliminary technical specifications as necessary for the project.
5. ENGINEER shall deliver two (2) hard copies and or one (1) electronic copy of Preliminary Design Phase documents within sixty (60) days of receipt of a signed Task Order.
6. 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.

**Preliminary Design Phase (60% Delivery).**

1. ENGINEER shall begin this phase of the project upon receipt of comments and/or authorization to proceed with the 60 % Preliminary Design Phase from the OWNER.
2. ENGINEER shall prepare preliminary plans, specifications, and opinion of probable construction cost for review by the OWNER.
3. Preliminary plans shall include the following plan sheets:
  - a. Cover, General Notes/Project Location, Existing Conditions, Demolition/Removal Plan(s), Proposed Conditions, Miscellaneous Details.
4. Preliminary Specifications shall include the following:
  - a. Preliminary front ends (utilizing the general "low bidder" format), preliminary technical specifications as necessary for the project.
5. ENGINEER shall deliver two (2) hard copies and or one (1) electronic copy of Preliminary Design Phase documents within sixty (60) days of receipt of a signed Task Order.
6. 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.

**Final Design Phase.**

1. ENGINEER shall begin this phase of the project upon receipt of comments and/or authorization to proceed with the Final Design Phase from the OWNER.
2. ENGINEER shall complete the design by completing unfinished plans and specifications.
3. After acceptance by OWNER and AGENCY of the Preliminary Design Phase documents and revised opinion of Probably 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, prepare final Drawings and Specifications showing the scope, extent, and character for the work to be performed and furnished by the Contractor.
  - b. Prepare and furnish Design Documents for review and approval by OWNER, its legal counsel and other advisors, as appropriate.

- c. Submit two (2) final hard copies and/or one (1) electronic copy of Design Documents within sixty (60) calendar days of authorization to proceed with this phase.
4. ENGINEER's services under the Final Design Phase shall be considered complete and subject to payment when the final Bidding Documents are approved by OWNER, AGENCY, and other governmental authorities having jurisdiction.

#### **Additional Services**

ENGINEER shall furnish or obtain from others the following Additional Services:

1. Topographic Survey.
2. San Miguel County Utility Permitting as necessary.
3. Geotechnical Investigation.
4. Structural Design
5. Environmental and Archeological Clearances

#### **Items not included in this contract**

1. Permitting with OWNER or AGENCY with the exception of San Miguel County.
2. Funding Agency Requirements beyond City funding requirements.
3. Public coordination and involvement.
4. Subsurface Utility Engineering
5. Land or Right of Way Acquisition Assistance
6. Boundary Surveys.
7. Operations and Maintenance.
8. Laboratory Testing and Sampling.
9. Bidding and Award Services (A Task Order will be provided to the OWNER for approval prior to advertising the project).
10. Construction Phase Services (A Task Order will be provided to the OWNER for approval prior to advertising the project).

#### **Payments to ENGINEER for Basic Services**

OWNER shall pay ENGINEER on a time and materials basis. The total amount of compensation for ENGINEERING SERVICES, as shown on Attachment "II", shall not exceed \$ 381,510.00 for Scoping, Preliminary, and Final Design and \$2,415.00 for Reimbursables, excluding gross receipt tax.

#### **Payments to ENGINEER for Additional Services**

OWNER shall pay ENGINEER on a time and materials basis not to exceed the amount of \$137,500.00 for Additional Services and Reimbursables exclusive of New Mexico Gross Receipts Tax as shown on Attachment "II". This amount will not be exceeded without prior written authorization from OWNER.

### **Invoicing**

ENGINEER shall utilize a total contract amount of \$521,425.00 including all Basic and Additional Services identified in this Task Order exclusive of NMGRT. Invoices may exceed the listed amount per Service (\$15,000.00 for Topographic Survey, \$10,000.00 for San Miguel County Utility Permitting, \$15,000.00 for Geotechnical Investigation, \$30,000 for Structural, \$30,000 for Environmental and Archeological Clearances, \$25,000 for Agency Coordination) However, the total invoice amount will not exceed the total contract amount unless written authorization is provided by OWNER.

For terms and conditions of invoicing, please refer to the Professional Services Agreement Between the City of Las Vegas and Molzen-Corbin & Associates that this Task Order falls under.

### **Construction Phase Services and Construction Observation Services**

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

**CONTRACT AMOUNT**

Upper Canyon Pre-Treatment Design  
City of Las Vegas

**MOLZENCORBIN**

Amadeo Trujillo

ATTACHMENT II

COST

CALCULATED  
CONTRACT AMOUNT

<b>BASIC FEE (Labor)</b>				
<b>SUBTOTAL LABOR</b>				\$381,510.00
<b>TOTAL BASIC FEE</b>				\$381,510.00
<b>REIMBURSABLE SUBCONSULTANTS</b>		<b>Phase</b>		
Topographic Survey			\$15,000.00	
San Miguel County Utility Permitting			\$10,000.00	
Geotechnical Investigation			\$15,000.00	
Structural Design			\$30,000.00	
Environmental and Archeological Clearances			\$30,000.00	
Agency Coordination			\$25,000.00	
Subconsultant Subtotal			\$125,000.00	\$125,000.00
Mark-up (if any)		10%		\$12,500.00
In House Survey From Survey Contract Amount (Excluding GRT)				\$0.00
<b>SUBTOTAL ADDITIONAL SERVICES</b>			\$125,000.00	\$137,500.00
<b>REIMBURSABLES</b>		<b>Quantity</b>		
In-House Copies	\$0.11	2,500.00	\$275.00	
In-House Color Copies (8 1/2 x 11)	\$1.00	190.00	\$190.00	
In-House Color Copies (11 x 17)	\$2.00	100.00	\$200.00	
In-House Large Format Prints	\$3.00	100.00	\$300.00	
Mileage	\$0.580	2,500.00	\$1,450.00	
Bidding Documents (Specs & Plans)				
<b>SUBTOTAL REIMBURSABLES</b>				\$2,415.00
<b>SUBTOTAL BASIC FEE, ADD. SERVICES, REIMBURSABLES</b>				<b>\$521,425.00</b>
NMGRT			7.7500%	\$40,410.44
<b>TOTAL</b>				<b>\$561,835.44</b>

## WATER RESOURCES MANHOOR ESTIMATE

Upper Canyon Pre-Treatment Design  
City of Las Vegas  
Amadeo Trujillo

MOLZENCORBIN

## ATTACHMENT II

No.	Project Task	WATER RESOURCES						ADMIN	Grand Totals
		Senior Principal Engineer	Senior Engineer	Professional Engineer	Project Engineer	Senior Engineering Design Specialist	Engineering Design Tech	ADMIN Support	
I.	<b>Preliminary Scoping (10%)</b>								
1	Hydraulic profile evaluation		4.00	4.00		2.00			10.00
2	Subsurface piping exploration and evaluation		2.00	4.00		2.00			8.00
3	Coordination with operational staff for water meter record data, as-built piping data			4.00					4.00
4	Field/site visits (1)		6.00	6.00	6.00				18.00
5	Coordination with equipment vendors			6.00					6.00
6	Scoping Document to summarize preliminary scoping efforts								0.00
7	Section 1 - Intro and Purpose		1.00					1.00	2.00
8	a) Location and purpose of document			2.00					2.00
9	Section 2 - Description of existing conditions		1.00	2.00		2.00		1.00	6.00
10	a) Description of current water conveyance/transfer mechanisms from Diversion Structure including, capacity and condition of conveyance lines, record flow-meter data and hydraulic profile interpretation			4.00		2.00			6.00
11	b) Description of existing site layout and constraints			2.00		2.00			
12	c) Graphics and figures to accompany descriptions			2.00		1.00	8.00		11.00
13	Section 3 - Evaluation of Proposed Project		2.00					2.00	4.00
14	a) Description of Project			4.00					4.00
15	b) Design Criteria		4.00	4.00					8.00
16	c) Environmental Impacts			1.00					1.00
17	d) Land Requirements			1.00		1.00			2.00
18	e) Potential Construction Issues			1.00					1.00
19	f) Sustainability Considerations			1.00					1.00
20	g) Graphics and figures			2.00	2.00	8.00	8.00		20.00
21	h) Maintenance/Operational Requirements			1.00					1.00
22	Section 4 - Conclusion and Recommendations		1.00	2.00					3.00
23	Preliminary Site Plan		2.00	8.00	1.00	1.00	16.00		
24	Project Coordination Meetings		8.00	8.00	8.00	2.00			
25	Meeting with City to review Scoping Document and Preliminary Site Plan		8.00	8.00	8.00	2.00			26.00
26	CADD Management						1.00		1.00
27	Project Management			12.00					12.00
28	Quality Assurance		8.00						8.00
	<b>Subtotal Hours Preliminary Scoping (10%)</b>		8.00	39.00	89.00	25.00	25.00	33.00	223.00
	<b>Subtotal Fees Preliminary Scoping (10%)</b>	\$1,920.00	\$7,800.00	\$12,015.00	\$3,875.00	\$3,625.00	\$3,630.00	\$380.00	\$33,245.00
II.	<b>Preliminary Design (30%)</b>								
1	General Sheets (cover, location, construction notes)		2.00	4.00			16.00		22.00
2	Existing Conditions Sheet (s) - site layout, general piping arrangements, electrical layout		4.00	16.00	2.00	2.00	24.00		48.00
3	Demolition Sheet (s) - existing Alum Building demolition plan		4.00	8.00			12.00		24.00
4	Proposed Conditions Sheet (s) - process flow diagram, hydraulic profile diagram, site development and layout, piping modifications, treatment unit plan and sectional layouts, solid residual management plan and sectional layouts, structure plan and sectional layouts, electrical improvement details		60.00	80.00	6.00	8.00	120.00		274.00
5	Miscellaneous Detail Sheet (s) - connection details, installation details, ancillary equipment details		16.00	20.00	2.00		24.00		
6	Project Coordination Meetings		8.00	8.00	8.00	2.00			
7	Prepare Cost Estimate		8.00	20.00	2.00		8.00		38.00
8	Prepare Project Manual		4.00	16.00	4.00			4.00	
9	Review of 30% Design with City		8.00	8.00	8.00	2.00			26.00
10	CADD Management						3.00		3.00
11	Project Management			60.00					60.00
12	Quality Assurance		8.00						8.00
	<b>Subtotal Hours Preliminary Design (30%)</b>		8.00	114.00	240.00	32.00	14.00	207.00	619.00
	<b>Subtotal Fees Preliminary Design (30%)</b>	\$1,920.00	\$22,800.00	\$32,400.00	\$4,960.00	\$2,030.00	\$22,770.00	\$380.00	\$87,260.00
III.	<b>Preliminary Design (60%)</b>								
1	General Sheets (cover, location, construction notes)		1.00	2.00	1.00		2.00		6.00
2	Existing Conditions Sheet (s) - site layout, general piping arrangements, electrical layout		1.00	4.00	2.00		4.00		11.00
3	Demolition Sheet (s) - existing Alum Building demolition plan		2.00	8.00	4.00		8.00		22.00
4	Proposed Conditions Sheet (s) - process flow diagram, hydraulic profile diagram, site development and layout, piping modifications, treatment unit plan and sectional layouts, solid residual management plan and sectional layouts, structure plan and sectional layouts, electrical improvement details		60.00	20.00	40.00		60.00		180.00
5	Miscellaneous Detail Sheet (s) - connection details, installation details, ancillary equipment details		12.00	12.00	4.00		12.00		40.00
6	Project Coordination Meetings		8.00	8.00	8.00	2.00			
7	Prepare Cost Estimate		16.00	4.00	12.00		16.00		
8	Prepare Project Manual		16.00	4.00	12.00		16.00		
9	Review of 60% Design with City		8.00	8.00	8.00	2.00			26.00
10	CADD Management						40.00		40.00
11	Project Management				60.00				60.00
12	Quality Assurance		40.00						40.00
	<b>Subtotal Hours Preliminary Design (60%)</b>		40.00	124.00	70.00	151.00	4.00	158.00	547.00
	<b>Subtotal Fees Preliminary Design (60%)</b>	\$9,600.00	\$24,800.00	\$9,450.00	\$23,405.00	\$580.00	\$17,390.00	\$0.00	\$85,215.00
IV.	<b>Pre-Final Design (90%)</b>								
1	General Sheets (cover, location, construction notes)			1.00	1.00	1.00			3.00
2	Existing Conditions Sheet (s) - site layout, general piping arrangements, electrical layout			2.00	1.00	2.00			5.00
3	Demolition Sheet (s) - existing Alum Building demolition plan		1.00	4.00	1.00	4.00			10.00

## WATER RESOURCES MANHOUR ESTIMATE

Upper Canyon Pre-Treatment Design  
City of Las Vegas  
Amadeo Trujillo

MOLZENCORBIN

## ATTACHMENT II

No.	Project Task	WATER RESOURCES						ADMIN	Grand Totals
		Senior Principal Engineer	Senior Engineer	Professional Engineer	Project Engineer	Senior Engineering Design Specialist	Engineering Design Tech	ADMIN - Support	
4	Proposed Conditions Sheet (s) - process flow diagram, hydraulic profile diagram, site development and layout, piping modifications, treatment unit plan and sectional layouts, solid residual management plan and sectional layouts, structure plan and sectional layouts, electrical improvement details		60.00	20.00	40.00	60.00			180.00
5	Miscellaneous Detail Sheet (s) - connection details, installation details, ancillary equipment details		8.00	8.00	4.00	8.00			28.00
6	Project Coordination Meetings		8.00	8.00	8.00	2.00			
7	Prepare Cost Estimate		20.00	8.00	20.00	8.00			
8	Prepare Project Manual		20.00	8.00	20.00	8.00			
9	Review of 90% Design with City		8.00	8.00	8.00	2.00			26.00
10	CADD Management					40.00			40.00
11	Project Management				60.00				60.00
12	Quality Assurance	40.00							40.00
	Subtotal Hours Pre-Final Design (90%)	40.00	125.00	67.00	163.00	135.00	0.00	0.00	530.00
	Subtotal Fees Pre-Final Design (90%)	\$9,600.00	\$25,000.00	\$9,045.00	\$25,265.00	\$19,575.00	\$0.00	\$0.00	\$88,485.00
	Subtotal Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Subtotal Fees	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Total Labor Hours	96.00	402.00	466.00	371.00	178.00	398.00	8.00	1,919.00
	Standard Billing Rate or Fee	\$240.00	\$200.00	\$135.00	\$155.00	\$145.00	\$110.00	\$95.00	
	Fee Dollars	\$23,040.00	\$80,400.00	\$62,910.00	\$57,505.00	\$25,810.00	\$43,780.00	\$760.00	\$294,205.00

**ELECTRICAL MANHOURLY ESTIMATE**  
**Upper Canyon Pre-Treatment Design**  
**City of Las Vegas**  
**Amadeo Trujillo**

**MOLZENCORBIN**

**ATTACHMENT II**

		ELECTRICAL			ADMIN	Grand Totals
No.	Project Task	Principal Engineer	Professional Engineer	Engineering Intern I	ADMIN - Support	
<b>I.</b>	<b>Preliminary Scoping (10%)</b>					
1	Electrical Requirements		3.00			3.00
2	Operational Evaluation		4.00			4.00
3	Coordination w/ WR and TESCO		4.00			4.00
4	Coordination w/ PNM			4.00		4.00
5	<b>Project Management</b>	2.00				2.00
6	<b>Quality Assurance</b>	4.00				4.00
<b>Subtotal Hours Preliminary Scoping (10%)</b>		6.00	11.00	4.00	0.00	21.00
<b>Subtotal Fees Preliminary Scoping (10%)</b>		\$1,320.00	\$1,540.00	\$440.00	\$0.00	\$3,300.00
<b>II.</b>	<b>Preliminary Design (30%)</b>					0.00
1	Drawings					0.00
2	Electrical Site Plan		4.00	6.00		10.00
3	Demo Sheet		3.00	8.00		11.00
4	Load Calcs		2.00			2.00
5	List of Technical Specs		2.00			2.00
6	Coordination w/ PNM			2.00		2.00
7	Cost Estimate		2.00	4.00		6.00
8	<b>Quality Assurance</b>	4.00				4.00
<b>Subtotal Hours Preliminary Design (30%)</b>		4.00	13.00	20.00	0.00	37.00
<b>Subtotal Fees Preliminary Design (30%)</b>		\$880.00	\$1,820.00	\$2,200.00	\$0.00	\$4,900.00
<b>III.</b>	<b>Preliminary Design (60%)</b>					
1	Drawings					0.00
2	Electrical Site Plan		2.00	3.00		5.00
3	Demo Sheet		3.00	4.00		7.00
4	Enlarged Power/Controls Plan		3.00	12.00		15.00
5	Lighting Plan with photometric calculations. Receptacle Plan.		2.00	4.00		6.00
6	Details/Tag List		5.00	6.00		13.00
7	Schematics			8.00		12.00
8	Specifications				3.00	3.00
9	Div 26		6.00			8.00
10	Div 40		12.00			16.00
11	Coordination w/ PNM		1.00	6.00		7.00
12	Cost Estimate		1.00	5.00		6.00
13	Coordination		6.00			9.00
14	<b>Quality Assurance</b>	5.00				5.00
<b>Subtotal Hours Preliminary Design (60%)</b>		5.00	41.00	48.00	3.00	112.00
<b>Subtotal Fees Preliminary Design (60%)</b>		\$1,100.00	\$5,740.00	\$5,280.00	\$285.00	\$15,405.00
<b>IV.</b>	<b>Pre-Final Design (90%)</b>					
1	Drawings					0.00
2	Electrical Site Plan		1.00	3.00		4.00
3	Demo Sheet		1.00	2.00		3.00
4	Enlarged Power/Controls Plan		4.00	14.00		18.00
5	Lighting Plan with photometric calculations. Receptacle Plan.		2.00	4.00		6.00
6	Details/Tag List		2.00	3.00		7.00
7	Schematics			4.00		7.00
8	Specifications				3.00	3.00
9	Div 26		2.00			3.00
10	Div 40		6.00			8.00
11	Coordination w/ PNM		1.00	6.00		7.00
12	Cost Estimate			3.00		3.00
13	Coordination		4.00			6.00



**ELECTRICAL MANHOUR ESTIMATE**  
**Upper Canyon Pre-Treatment Design**  
**City of Las Vegas**  
**Amadeo Trujillo**

**MOLZENCORBIN**

**ATTACHMENT II**

		<b>ELECTRICAL</b>			<b>ADMIN</b>	<b>Grand Totals</b>
<b>No.</b>	<b>Project Task</b>	<b>Principal Engineer</b>	<b>Professional Engineer</b>	<b>Engineering Intern I</b>	<b>ADMIN - Support</b>	
14	Quality Assurance	3.00				3.00
	Subtotal Hours Pre-Final Design (90%)	3.00	23.00	39.00	3.00	78.00
	Subtotal Fees Pre-Final Design (90%)	\$660.00	\$3,220.00	\$4,290.00	\$285.00	\$10,455.00
	Total Labor Hours	18.00	88.00	111.00	6.00	248.00
	Standard Billing Rate or Fee	\$220.00	\$140.00	\$110.00	\$95.00	
	Fee Dollars	\$3,960.00	\$12,320.00	\$12,210.00	\$570.00	\$34,060.00

## ARCHITECTURE MANHOUR ESTIMATE

Upper Canyon Pre-Treatment Design

City of Las Vegas

Amadeo Trujillo

## MOLZENCORBIN

		ARCHITECTURE						ADMIN		
No.	Project Task	Principal Architect	Registered Architect	Architect Intern II	Senior Architectural Designer	Architectural Designer	Landscape Designer	Departmental Totals	ADMIN Support	Grand Totals
I. Preliminary Scoping (10%)										
1	Kickoff Design Team	2.00	2.00					4.00		4.00
2	Define Design Parameters		2.00					2.00		2.00
3	Conceptual building layout	1.00	4.00					5.00		5.00
4	Site Design Support	2.00						2.00		2.00
5	Chemical Evaluations MSDS		2.00		4.00			6.00		6.00
6	Building Access and Delivery Methods		2.00					2.00		2.00
7	Initial Code Evaluation		2.00		2.00			4.00		4.00
8	Structural Engagement		1.00					1.00		1.00
9	Electrical Engagement		1.00					1.00		1.00
10	Mechanical Engagement		1.00					1.00		1.00
13	CADD Management							0.00		0.00
14	Project Management							0.00		0.00
15	Quality Assurance	2.00						2.00		2.00
Subtotal Hours Preliminary Scoping (10%)		7.00	17.00	0.00	6.00	0.00	0.00	30.00	0.00	30.00
Subtotal Fees Preliminary Scoping (10%)		\$1,540.00	\$2,125.00	\$0.00	\$720.00	\$0.00	\$0.00	\$4,385.00	\$0.00	\$4,385.00
II. Preliminary Design (30%)										
1	Phase Initiation with Design Team	1.00	2.00					3.00		3.00
2	Prepare base plan from WR Process drawings		2.00	8.00				10.00		10.00
3	Site Design Support	1.00	1.00					2.00		2.00
4	Initial Elevation Study	2.00	2.00	8.00				12.00		12.00
5	Initial Building Sections	2.00	2.00	8.00				12.00		12.00
6	Update Code Evaluation		2.00		4.00			6.00		6.00
7	Structural Coordination		2.00					2.00		2.00
8	Electrical Coordination		2.00					2.00		2.00
9	Mechanical Coordination		2.00					2.00		2.00
10	Bi-weekly project coordination (3)		6.00					6.00		6.00
11	Schematic Landscape Design	1.00					4.00	5.00		5.00
12	Fencing and Security	1.00					2.00	3.00		3.00
19	CADD Management							0.00		0.00
20	Project Management							0.00		0.00
21	Quality Assurance	4.00						4.00		4.00
Subtotal Hours Preliminary Design (30%)		12.00	23.00	24.00	4.00	0.00	6.00	69.00	0.00	69.00
Subtotal Fees Preliminary Design (30%)		\$2,640.00	\$2,875.00	\$2,400.00	\$480.00	\$0.00	\$540.00	\$8,935.00	\$0.00	\$8,935.00
III. Preliminary Design (60%)										
1	Update Building Layout - Integrate input	1.00	4.00					5.00		5.00
2	Base Plan		2.00	8.00				10.00		10.00
3	Floor Plan		2.00	8.00				10.00		10.00
4	Water Resource Process Coordination	1.00	4.00					5.00		5.00
5	Review/Update Code Evaluation		2.00		4.00			6.00		6.00
6	Elevations		4.00	8.00				12.00		12.00
7	Ceiling Plan		2.00	4.00				6.00		6.00
8	Roof Plan		2.00	4.00				6.00		6.00
9	Building Sections		2.00	8.00				10.00		10.00
10	Wall Sections		2.00	8.00				10.00		10.00
11	Material Selection	1.00	4.00					5.00		5.00
12	Outline Technical Specifications		2.00		4.00			6.00	2.00	8.00
13	Door, Window, Finish Schedules		4.00	8.00				12.00		12.00
14	Building Details		4.00	8.00				12.00		12.00
15	Structural Coordination		4.00					4.00		4.00
16	Mechanical Coordination		2.00					2.00		2.00
17	Electrical Coordination		2.00					2.00		2.00
18	Civil Coordination	2.00	4.00					6.00		6.00
19	Landscape Design	2.00					8.00	10.00		10.00
20	Irrigation Design Coordination	1.00					2.00	3.00		3.00
21	Security and Fencing Design	1.00					4.00	5.00		5.00
22	Bi-weekly project coordination meetings (6)		12.00					12.00		12.00
24	CADD Management							0.00		0.00
25	Project Management							0.00		0.00

## ARCHITECTURE MANHOUR ESTIMATE

Upper Canyon Pre-Treatment Design

City of Las Vegas

Amadeo Trujillo

## MOLZENCORBIN

No.	Project Task	ARCHITECTURE						ADMIN		Grand Totals
		Principal Architect	Registered Architect	Architect Interns	Senior Architectural Designer	Architectural Designer	Landscape Designer	Departmental Totals	ADMIN - Support	
26	Quality Assurance	8.00						8.00		8.00
	Subtotal Hours Preliminary Design (60%)	17.00	64.00	64.00	8.00	0.00	14.00	167.00	2.00	169.00
	Subtotal Fees Preliminary Design (60%)	\$3,740.00	\$8,000.00	\$6,400.00	\$960.00	\$0.00	\$1,260.00	\$20,360.00	\$190.00	\$20,550.00
IV.	Pre-Final Design (90%)									
1	Final Phase Kickoff		2.00					2.00		2.00
2	Update Building Layout - Integrate input		2.00	4.00				6.00		6.00
3	Base Plan			4.00				4.00		4.00
4	Floor Plan			4.00				4.00		4.00
5	Water Resource Process Coordination	2.00	4.00					6.00		6.00
6	Elevations		2.00	4.00				6.00		6.00
7	Ceiling Plan		1.00	2.00				3.00		3.00
8	Roof Plan		1.00	2.00				3.00		3.00
9	Building Sections		1.00	4.00				5.00		5.00
10	Wall Sections		1.00	4.00				5.00		5.00
11	Door, Window, Finish Schedules		2.00	4.00				6.00		6.00
12	Building Details		4.00	8.00				12.00		12.00
13	Structural Coordination		2.00					2.00		2.00
14	Mechanical Coordination		2.00					2.00		2.00
15	Electrical Coordination		2.00					2.00		2.00
16	Civil Coordination		2.00					2.00		2.00
17	Technical Specifications		4.00		8.00			12.00	4.00	16.00
18	Landscape Design	1.00					2.00	3.00		3.00
19	Decorative Fence						2.00	2.00		2.00
20	Irrigation Coordination						2.00	2.00		2.00
21	Biweekly project coordination meetings (6)		12.00					12.00		12.00
25	CADD Management							0.00		0.00
26	Project Management							0.00		0.00
27	Quality Assurance	8.00						8.00		8.00
	Subtotal Hours Pre-Final Design (90%)	11.00	44.00	40.00	8.00	0.00	6.00	109.00	4.00	113.00
	Subtotal Fees Pre-Final Design (90%)	\$2,420.00	\$5,500.00	\$4,000.00	\$960.00	\$0.00	\$540.00	\$13,420.00	\$380.00	\$13,800.00
	Total Labor Hours	47.00	148.00	128.00	26.00	0.00	26.00	375.00	6.00	381.00
	Standard Billing Rate or Fee	\$220.00	\$125.00	\$100.00	\$120.00	\$110.00	\$90.00		\$95.00	
	Fee Dollars	\$10,340.00	\$18,500.00	\$12,800.00	\$3,120.00	\$0.00	\$2,340.00	\$47,100.00	\$570.00	\$47,670.00

**MECHANICAL MANHOUR ESTIMATE**  
**Upper Canyon Pre-Treatment Design**  
**City of Las Vegas**  
**Amadeo Trujillo**

# MOLZENCORBIN

		MECHANICAL			
No.	Project Task	Senior Engineer	Associate Design Technician	Departmental Totals	Grand Totals
<b>II.</b>	<b>Preliminary Design (30%)</b>				
1	HVAC load calcs	4.00		4.00	4.00
2	HVAC drawings	6.00	10.00	16.00	16.00
4	Quality Assurance	2.00		2.00	2.00
<b>Subtotal Hours Preliminary Design (30%)</b>		12.00	10.00	22.00	22.00
<b>Subtotal Fees Preliminary Design (30%)</b>		\$1,980.00	\$850.00	\$2,830.00	\$2,830.00
<b>III.</b>	<b>Preliminary Design (60%)</b>				
1	HVAC load calcs	1.00		1.00	1.00
2	HVAC drawings	3.00	6.00	9.00	9.00
4	Quality Assurance	1.00		1.00	1.00
<b>Subtotal Hours Preliminary Design (60%)</b>		5.00	6.00	11.00	11.00
<b>Subtotal Fees Preliminary Design (60%)</b>		\$825.00	\$510.00	\$1,335.00	\$1,335.00
<b>IV.</b>	<b>Pre-Final Design (90%)</b>				
1	HVAC Drawings	2.00	3.00	5.00	5.00
2	HVAC Specs	4.00		4.00	4.00
4	Quality Assurance	1.00		1.00	1.00
<b>Subtotal Hours Pre-Final Design (90%)</b>		7.00	3.00	10.00	10.00
<b>Subtotal Fees Pre-Final Design (90%)</b>		\$1,155.00	\$255.00	\$1,410.00	\$1,410.00
<b>Total Labor Hours</b>		24.00	19.00	43.00	43.00
<b>Standard Billing Rate or Fee</b>		\$165.00	\$85.00		
<b>Fee Dollars</b>		\$3,960.00	\$1,615.00	\$5,575.00	\$5,575.00