

**SUPPLEMENTAL NO. 4 TO THE PROFESSIONAL ENGINEERING SERVICES
CONTRACT FOR TROPICANA AVENUE / UNIVERSITY CENTER DRIVE GRADE
SEPARATION (OUTBOUND ELEVATED EXPRESSWAY)**

THIS SUPPLEMENTAL CONTRACT NO. 4, made and entered into this 15th day of August, 2023, between Clark County, Nevada, a political subdivision of the State of Nevada, hereinafter referred to as COUNTY, and CH2M Hill Engineers, Inc., a Delaware Corporation authorized to do business under the laws of the State of Nevada, hereinafter referred to as ENGINEER.

W I T N E S S E T H

WHEREAS, on September 6, 2016, the COUNTY and the ENGINEER entered into a contract for development and analysis of alternatives for an Elevated Roadway Outbound from the Airport to connect the Resort Corridor Area; and

WHEREAS, the alternatives have been evaluated and presented to the COUNTY and the Public; and

WHEREAS, on April 17, 2018, the COUNTY and the ENGINEER entered into a Supplemental No. 1 to the contract for elevated roadway improvements beginning at grade on Swenson Street south of Tropicana Avenue, then elevating and continuing north within existing rights-of-way on County property and under crossing Paradise north of Tropicana Avenue by means of the plans developed to a sixty percent level prior to the COUNTY's request for additional alternatives; and

WHEREAS, on November 3, 2020, the COUNTY and the ENGINEER entered into a Supplemental No. 2 to the contract for the Tropicana Avenue and University Center Grade Separation (DDI); and

WHEREAS, on February 1, 2022, the COUNTY and the ENGINEER entered into a Supplemental No. 3 to the contract to increase the funds for the design of a pedestrian bridge, a bridge to access the TNC lot, additional geotechnical and groundwater investigation, Intelligent Transportation Systems and an Environmental Analysis (EA) required by the Federal Aviation Administration; and

WHEREAS, the Tropicana Avenue and University Center Grade Separation (DDI) project is presently designed to a ninety percent level; and

WHEREAS, due to cost escalation, it has been determined to revise the design to reduce construction costs; and

WHEREAS, it is necessary to provide additional fees to modify the project design.

NOW THEREFORE, for and in consideration of the premises and mutual covenants herein contained, it is agreed to supplement the professional engineering services contact dated September 6, 2016, Supplemental No. 1 dated April 17, 2018, Supplemental No. 2 dated November 3, 2020 and Supplemental No. 3 dated February 1, 2022.

ARTICLE I: DEFINITIONS

“Direct Salary” Exhibit “AAA” attached hereto is effective as of the date of this Supplemental No. 4.

“Project” shall be revised to read as follows:

"Project" means the partially below grade DDI roadway improvements beginning at grade on Tropicana Avenue at Wilbur Street east of University Center Drive and ending at Naples Channel west of Paradise Road. The DDI will generally be located north of Tropicana Avenue and located on UNLV (Thomas and Mack parking lot) and DOA properties east and west of Paradise Road. These improvements would allow Tropicana Avenue westbound traffic to travel below University Center Drive and Paradise Road without having to stop at a signal, and also would allow traffic traveling north to west on University Center Drive to Tropicana Avenue, to flow freely. Tropicana Avenue eastbound will remain at grade, with a shift to the north, crossing over Tropicana Avenue westbound on both ends of the project. Intersections eastbound of University Center Drive and Paradise Road will be shifted to the north due to the realignment of Tropicana Avenue. Another item included with the Project is the Naples Detention Basin outfall which begins west of Paradise Road at the proposed Naples Detention Basin site and conveys detention basin outflows to the east to University Center Drive and then north in University Center Drive to the Tropicana Wash, south of Flamingo Road [Naples Detention Basin is being designed by others]. The outfall will be designed for approximately 150 cfs, The project will also include the Drainage facilities located between Paradise Road and University Center Drive, south of Tropicana Avenue (on properties with Parcel Numbers 162-27-202-001, 162-27-202-002 and 162-27-202-014) and outfall in Tropicana Avenue. The Tropicana Improvements from Maryland Parkway to Koval Lane, originally designed by NDOT, will be incorporated into the Project.

Such improvements are to include, at a minimum, combination of below grade and at-grade roadways designed to carry predominantly passenger vehicles, modifications to existing surface streets to accommodate new below grade and at-grade roadways, modifications to existing intersections to accommodate changes in traffic, bridges at University Center Drive and Paradise Road, east and west crossover, ground water and storm water pump station, updated Geotechnical report, EAP, traffic control devices, traffic signal modifications at Tropicana Avenue/Paradise Road and Tropicana Avenue/University Center Drive intersections, hot mix asphaltic concrete pavement, sidewalks, curbs, gutters, drainage facilities, bridge lighting, landscape and aesthetics, coordination for dry utility relocations and design for 10” Sewer relocation in Paradise Road, 24” water line relocation in University Center Drive and replacing the 12” water line in Tropicana Avenue from Kelch Drive to Paradise Road, replacing the 12” water line in Paradise Road with a 12” from Harmon Avenue to Naples Drive and a new 16” water line from Harmon Avenue south on La Mar Circle, pavement markings, static and dynamic signing, horizontal and vertical transitions, including detention basin, low level outlets, collection facilities, pipe, reinforced concrete box, and related appurtenances, and additional ITS conduits and fiber cables within the project limits and other necessary appurtenances required to make a good, complete and serviceable Project.

Project will also include Environmental Analysis for the Naples Detention Basin and the Tropicana and University Center Grade Separation Improvements (DDI) in the CCDOA RPZ.

“Final Improvements Design” shall have the meaning:

“Final Improvements Design” means design of the Project by the ENGINEER to a one hundred percent (100%) final level of completion for Tropicana Avenue and University Center Drive DDI, Naples Detention Basin outfall, the Airport Drainage Improvements and the Tropicana improvements from Maryland Parkway to Koval Lane with an option to release multiple early construction packages.

ARTICLE II: SCOPE OF SERVICES

2.02 Basic Engineering Services

Section 2.02 (X) shall be revised to:

X. Geotechnical and Groundwater Investigations for the DDI:

By SUBCONTRACTOR or otherwise, perform geotechnical evaluation consisting of two (2) additional borings within the proposed west crossover bridge and Paradise undercrossing bridge to the depth of 130’ below the existing site grades using mud-rotary drilling method. Provide geotechnical-related design and construction recommendations regarding the Tropicana and University Center Drive Grade Separation (DDI) project and supporting associated structures and prepare a report of soil conditions applicable to the Project.

Deliverables: Prepare a Geotechnical Report to include:

- Geologic conditions and seismicity, and subsurface soil conditions
- Anticipated excavatability considerations
- Approximate depth to groundwater
- Geotechnical design and construction criteria
- Surface drainage considerations

Deliverables: Prepare a Groundwater Dewatering Design to include:

- Summarize information and data including groundwater depths, drawdown depths, dewatering discharge rate and water quality test results into a report
- Develop a permanent dewatering plan design and specifications including well locations and spacing, pump specifications and header piping details

Deliverables: Submit the Geotechnical Report and Groundwater Evaluation Report and Plans as draft documents for review and comment – three (3) hard copies and an emailed PDF. Finalize the Geotechnical Report and Groundwater Evaluation Report and Plans by incorporating review comments and submit three (3) hard copies and PDF version.

Section 2.02 (Y) shall be revised to:

Y. Structural Design for the DDI:

ENGINEER will prepare plans and structural calculations for six (6) bridges:

- West braid, eastbound Tropicana Avenue over westbound Tropicana Avenue, anticipated to be a three-span cast-in-place, post-tensioned concrete box girder bridge
- Paradise Road over westbound Tropicana Avenue, anticipated to be a single-span buried box structure
- University Center Drive over westbound Tropicana Avenue, anticipated to be a two-span cast-in-place post-tensioned concrete box girder bridge
- East braid, eastbound Tropicana Avenue over westbound Tropicana Avenue, anticipated to be a single-span buried box structure

ENGINEER will prepare plans and structural calculations for retaining walls along Tropicana, at under crossings and along the on- and off-ramps to and from Tropicana Avenue, Paradise Road and University Center Drive. Retaining walls, for the most part, are anticipated to be in cut sections and will be designed to facilitate top down construction methods (soil nail walls, ground anchor walls, soldier pile and lagging walls, etc.). Mechanically stabilized earth (MSE) retaining walls are anticipated for sections in fill.

ENGINEER will develop construction plans for each bridge, expected to include the following, as appropriate for the structure type and configuration:

- Front Sheet
- Geometrics and General Notes
- Drilled Shaft Details
- Abutment Plan, Elevation and Details
- Pier Plan, Elevation and Details
- Typical Deck Section
- Girder Layout and Details
- Prestressing and Camber Details
- Deck Slab Details
- Approach Slab Plan and Details
- Concrete Barrier Railing Plan, Elevation and Details
- Expansion Joint Details
- Bar Bending Details

ENGINEER will develop construction plans for retaining walls, expected to include the following, as appropriate for the wall type and configuration:

- Retaining Wall Location Plan
- Wall Plan and Elevation
- Typical Wall Sections
- Soil Nail Walls Sections and Details
- Ground Anchor Walls Sections and Details
- Soldier Pile and Lagging Walls Sections and Details
- MSE Walls Sections and Details
- Wall Drainage Details

ARTICLE IV: TIME OF PERFORMANCE

Subsection 4.01 shall be revised to:

4.01 Time of Performance

Subject to Section 4.02 hereof, the ENGINEER shall complete the following specific tasks, and all the work preceding such tasks on or before the date set out below:

<u>TASK</u>	<u>COMPLETION TIME</u>
2.02.BB 60% Plans & Special Provisions Submission	Within 270 calendar days following the receipt of the signed Contract and notice from the Director to begin work under this Contract.
2.02.CC 90% Plans & Special Provisions Submission	Within 240 calendar days following receipt of the final review comments from the 60% submittal.
2.02.DD Final Plans & Special Provisions Submission	Within 120 calendar days following receipt of the final review comments from the 90% submittal.
2.02.EE Bidding Assistance Phase	Beginning when project is advertised and lasting until project is awarded to low bidder.
2.02.FF Issued For Construction Plans	Within 30 calendar days following opening of construction bids for the Project.
2.03 Special Services	Within time period as specified by the Director.

The ENGINEER shall complete all Basic Engineering Services, Final Engineering Services, and authorized Special Services within completion times as set forth above for the full DDI alternative by December 31, 2028, unless the COUNTY amends such date. There is an option of early construction packages, which the ENGINEER and the Director will agree upon the schedule.

ARTICLE V: PAYMENT FOR SERVICES

Delete Section 5.01 in its entirety, and replace with the following:

5.01 Maximum Amount Payable

The maximum amount payable by the COUNTY to the ENGINEER shall be a sum of money equal to Basic Engineering Services plus the Special Service fees, if, as, and when approved by the Director and provided, however, under no circumstances may the total amount payable to the ENGINEER under this Contract or in connection with the subject matter of this Contract, exceed \$16,675,756.00 unless such sum is increased by the Clark County Board of Commissioners, but only to the extent such total sum is increased.

Delete Section 5.02 in its entirety, and replace with the following:

5.02 Basic Services and Special Services Fees

In no event may the fees exceed the following Basic Engineering Services, and the Special Services fees shown below in purposes or amounts:

<u>TASK</u>	<u>MAXIMUM AMOUNTS</u>
Basic Engineering Services 2.02.....	\$15,675,756.00
Special Services 2.03	\$1,000,000.00
Grand Total Basic and Special Service.....	\$16,675,756.00

ARTICLE IX: MISCELLANEOUS PROVISIONS

Delete second paragraph under Section 9.15 in its entirety, and replace with the following:

9.15 Entire Agreement

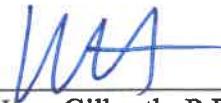
The remainder of professional services contract for the Tropicana Avenue / University Center Drive Grade Separation (Outbound Elevated Expressway) project dated September 6, 2016, Supplemental No. 1 dated April 17, 2018, Supplemental No. 2 dated November 3, 2020, and Supplemental No. 3 dated February 1, 2022 otherwise remain unchanged.

IN WITNESS WHEREOF, the parties have executed this Supplemental No. 4 Contract as of the date herein above set forth.

CLARK COUNTY, NEVADA


CH2M HILL ENGINEERS, INC.

Jessica Colvin
Chief Financial Officer



Ken Gilbreth, P.E.
Vice President

APPROVED AS TO FORM:



Ashley A. Balducci
Deputy District Attorney

SUPPLEMENTAL NO. 4

EXHIBIT "AAA"

MAXIMUM DIRECT SALARY OF THE ENGINEER'S EMPLOYEES STANDARD

<u>CLASSIFICATION</u>	<u>DIRECT SALARY</u> (Not to Exceed Standard Rates)
Principal	\$165.00
Senior Project Manager / Technologist	\$150.00
Project Manager / Engineering Specialist	\$135.00
Project Engineer	\$115.00
Associate Engineer	\$85.00
Staff Engineer 2	\$65.00
Staff Engineer 1	\$50.00
Engineer Tech 5	\$75.00
Engineer Tech 4	\$65.00
Engineer Tech 3	\$60.00
Engineer Tech 2	\$50.00
Engineer Tech 1	\$40.00
Office/Clerical/Accounting	\$63.00
Bridge Engineering	\$140.00
Junior Bridge Engineer	\$118.00
Junior Roadway Engineer	\$118.00
Junior Technician	\$68.00
Project Assistant 1	\$58.00
Project Assistant 2	\$52.00
Senior Bridge Engineer	\$160.00
Senior Q/C	\$148.00
Senior Roadway Engineer	\$155.00
Senior Technician	\$110.00
Planner	\$75.00
Environmental Professional	\$115.00

DISCLOSURE OF OWNERSHIP/PRINCIPALS

Business Entity Type (Please select one)						
<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Partnership	<input type="checkbox"/> Limited Liability Company	<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> Trust	<input type="checkbox"/> Non-Profit Organization	<input type="checkbox"/> Other
Business Designation Group (Please select all that apply)						
<input type="checkbox"/> MBE	<input type="checkbox"/> WBE	<input type="checkbox"/> SBE	<input type="checkbox"/> PBE	<input type="checkbox"/> VET	<input type="checkbox"/> DVET	<input type="checkbox"/> ESB
Minority Business Enterprise	Women-Owned Business Enterprise	Small Business Enterprise	Physically Challenged Business Enterprise	Veteran Owned Business	Disabled Veteran Owned Business	Emerging Small Business
Number of Clark County Nevada Residents Employed:				141		
Corporate/Business Entity Name: Jacobs Engineering Group Inc.						
<i>(Include d.b.a., if applicable)</i>						
Street Address:		1999 Bryan Street Ste. 200		Website: www.jacobs.com		
City, State and Zip Code:		Dallas, TX 75201		POC Name: Ken Gilbreth Email: Ken.Gilbreth@jacobs.com		
Telephone No:		(214) 638-0145		Fax No:		
Nevada Local Street Address: <i>(If different from above)</i>		1301 N. Green Valley Pkwy, Suite 200		Website: www.jacobs.com		
City, State and Zip Code:		Henderson, NV 89074		Local Fax No: (702) 369-1107		
Local Telephone No:		(702) 369-6175		Local POC Name: Ken Gilbreth Email: Ken.Gilbreth@jacobs.com		

All entities, with the exception of publicly-traded and non-profit organizations, must list the names of individuals holding more than five percent (5%) ownership or financial interest in the business entity appearing before the Board.

Publicly-traded entities and non-profit organizations shall list all Corporate Officers and Directors in lieu of disclosing the names of individuals with ownership or financial interest. The disclosure requirement, as applied to land-use applications, extends to the applicant and the landowner(s).


Entities include all business associations organized under or governed by Title 7 of the Nevada Revised Statutes, including but not limited to private corporations, close corporations, foreign corporations, limited liability companies, partnerships, limited partnerships, and professional corporations.

Full Name	Title	% Owned <small>(Not required for Publicly Traded Corporations/Non-profit organizations)</small>
SEE ATTACHED; LIST OF ACTIVE OFFICERS AND DIRECTORS		
_____	_____	_____
_____	_____	_____
_____	_____	_____

This section is not required for publicly-traded corporations. Are you a publicly-traded corporation? Yes No

- Are any individual members, partners, owners or principals, involved in the business entity, a Clark County, Department of Aviation, Clark County Detention Center or Clark County Water Reclamation District full-time employee(s), or appointed/elected official(s)?
 Yes No (If yes, please note that County employee(s), or appointed/elected official(s) may not perform any work on professional service contracts, or other contracts, which are not subject to competitive bid.)
- Do any individual members, partners, owners or principals have a spouse, registered domestic partner, child, parent, in-law or brother/sister, half-brother/half-sister, grandchild, grandparent, related to a Clark County, Department of Aviation, Clark County Detention Center or Clark County Water Reclamation District full-time employee(s), or appointed/elected official(s)?
 Yes No (If yes, please complete the Disclosure of Relationship form on Page 2. If no, please print N/A on Page 2.)

I certify under penalty of perjury, that all of the information provided herein is current, complete, and accurate. I also understand that the Board will not take action on land-use approvals, contract approvals, land sales, leases or exchanges without the completed disclosure form.

 Signature	Ken Gilbreth Print Name
Vice President	July 3, 2023
Title	Date

DISCLOSURE OF RELATIONSHIP

List any disclosures below:
(Mark N/A, if not applicable.)

NAME OF BUSINESS OWNER/PRINCIPAL	NAME OF COUNTY* EMPLOYEE/OFFICIAL AND JOB TITLE	RELATIONSHIP TO COUNTY* EMPLOYEE/OFFICIAL	COUNTY* EMPLOYEE'S/OFFICIAL'S DEPARTMENT
N/A			

* County employee means Clark County, Department of Aviation, Clark County Detention Center or Clark County Water Reclamation District.

"Consanguinity" is a relationship by blood. "Affinity" is a relationship by marriage.

"To the second degree of consanguinity" applies to the candidate's first and second degree of blood relatives as follows:

- Spouse – Registered Domestic Partners – Children – Parents – In-laws (first degree)
- Brothers/Sisters – Half-Brothers/Half-Sisters – Grandchildren – Grandparents – In-laws (second degree)

For County Use Only:

If any Disclosure of Relationship is noted above, please complete the following:

- Yes No Is the County employee(s) noted above involved in the contracting/selection process for this particular agenda item?
- Yes No Is the County employee(s) noted above involved in any way with the business in performance of the contract?

Notes/Comments:

Signature

Print Name
Authorized Department Representative

CH2M HILL LEGAL ENTITIES – LIST OF ACTIVE OFFICERS AND DIRECTORS
CH2M HILL ENGINEERS, INC 7/3/2023

Appointments

Board Directors

Name	Position	Appointed
Walstrom, Jan	BOARD OF DIRECTORS	12/14/2017
Williams, Ronalds E.	BOARD OF DIRECTORS	12/01/2021

Officers

Name	Position	Appointed
Adkisson, Jason	Secretary	09/01/2021
Arnold, Julie T.	Assistant Secretary	05/29/2013
Crockett, Barbara	Assistant Vice President	03/19/2018
Delisle, Tina	Senior Manager Payroll	02/01/2021
Duran, Frank	Assistant Vice President	08/07/2018
Eldridge, Gregory W.	Assistant Vice President	11/19/2020
Walstrom, Jan	President	04/20/2018
Funk, Charles R.	Assistant Vice President	05/29/2013
Gauggel, Edwin G.	Assistant Vice President	06/04/2020
Goodell, Steve J.	Assistant Vice President	05/13/2020
Hall, Sirpa H.	Assistant Vice President	04/16/2018
Heffernan, Kevin	Vice President	03/01/2022
Helsing, Jason	Senior Director Tax	09/10/2020
Hsu, Mike	Senior Director Tax	02/01/2022
Laity, Michael	Senior Director Tax	02/21/2020
McCallister, Scott	Assistant Vice President	06/01/2021
Menard, Didier	Assistant Vice President	04/16/2018
Myers, Ralph	Assistant Vice President	11/29/2021
O'Hara, Susan Virginia	Treasurer	04/01/2022
Rimas, Cheryl Jett	Assistant Secretary	05/29/2013
Soroushian, Fred	Assistant Vice President	11/11/2020