

**FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT FOR
PREPARATION OF CONSTRUCTION PLANS, SPECIFICATIONS AND ESTIMATES
(PS&E) FOR PROJECT NO. 675 SEPULVEDA BOULEVARD WIDENING PROJECT
(City Council / RKA Consulting Group, Inc.)**

This FIRST AMENDMENT to that certain PROFESSIONAL SERVICES AGREEMENT FOR PREPARATION OF CONSTRUCTION PLANS, SPECIFICATIONS AND ESTIMATES (PS&E) FOR PROJECT NO. 675 SEPULVEDA BOULEVARD WIDENING ("First Amendment"), is entered into effective as of May 17, 2016, by and between CITY OF CARSON, a general law city & municipal corporation ("City") and RKA CONSULTING GROUP, INC., a California corporation ("Engineer") (City and Engineer are referred to collectively as "parties" herein).

RECITALS

A. City and Engineer entered into that certain "Professional Services Agreement for Preparation of Construction Plans, Specifications and Estimates (PS&E)" ("Agreement"), executed by and between the parties effective as of January 15, 2013, pursuant to which Engineer is to prepare certain construction plans, specifications and estimates (PS&E) for the City.

B. Extensive work has been completed by Engineer on the Scope of Services required by the Agreement.

C. In 2005 City determined the Project No. 675 was entitled to a Categorical Exemption from requirements of the California Environmental Quality Act ("CEQA"). In 2015 Caltrans reviewed City's Categorical Exemption, rejected the same, and has directed that five (5) CEQA tasks will need to be completed by City.

D. City now desires to amend the Agreement to provide for additional professional services as detailed herein.

E. Accordingly, the parties desire to amend the Agreement to expand the scope of services to be performed by Engineer, and to increase the total compensation to be paid by City to Engineer by an amount not to exceed \$244,693.00.

FIRST AMENDMENT

SECTION 1. Exhibit "A," "Scope of Services," of Section 3, "Description of Work," is hereby amended, to add at the end thereof the following additional professional services:

▪ ***Added Task 1 – Modify Plans Based on 100% Structural Constructability Review***

Engineer will modify the structural plans prepared for City and submitted to the County of Los Angeles on or about February 18, 2016, based upon

the 100% constructability review undertaken for such plans by the County of Los Angeles. Such modifications shall be completed within the term of this Agreement.

▪ ***Added Task 2 – Additional Scope of Services Based on 100% Plans & Constructability Review***

Engineer shall perform the following additional services beyond the original "Scope of Services" set forth in the Agreement as follows:

1. Add a sidewalk to the north side of Sepulveda from the Alameda Ramp to the bridge to provide connectivity from the sidewalk on the Alameda Ramp to the existing sidewalk on the north side of Sepulveda east of the bridge.
2. Make such necessary or warranted modifications to the plans, cross sections, quantities, specifications, and construction estimate necessary to amend the pavement designation(s) from "PCC" to "AC."
3. Make such necessary or warranted modifications to the driveway on the south side of Sepulveda across from the Alameda Ramp to a curved entrance
4. Add crosswalks to the north and east legs of the Sepulveda/Alameda Ramp intersection, including such necessary or warranted modifications to the roadway and striping plans for the same.
5. Add a new traffic signal sheet, new curb ramps, pedestrian push buttons, pedestrian heads, poles, striping, phasing changes, quantities, estimate, and specifications as necessary or warranted for the added crosswalks to the north and east legs of the Sepulveda/Alameda Ramp intersection.
6. Extend the construction limits on Sepulveda westerly to repair the broken pavement near the Alameda Ramp, including such necessary or warranted changes to the plans, typical sections, quantities, and cost estimate for the same.
7. Add a right turn lane on westbound Sepulveda at the Alameda Ramp, including such necessary or warranted changes to the signing, striping plans, and traffic loops at this intersection.

▪ ***Added Task 3 –Utility Workshop and Utility Coordination***

Engineer with prepare such necessary or warranted exhibits for City use in hosting a Utility Coordination Workshop ("workshop") with all of the utility providers on Sepulveda Boulevard. Engineer will further attend the workshop, coordinate relocations with the utility providers, and update its final work product to reflect any changes to the final PS&E as a consequence of the workshop.

▪ ***Added Task 4 –Design Water Diversion Details for Work in the Channel***

In the Agreement’s Scope of Services, Engineer was to prepare water diversion details. Such scope of services is hereby deleted from the Agreement. City now desires to have such water diversion details performed by a independent consultant. Accordingly, Engineer will incorporate into the final PS&E the computer aided design (“CAD”) files provided by City’s consultant, and create two additional plan sheets for the modifications and restoration of the stone revetment and clay liner based upon the hydraulic analysis for diversion flows, design temporary flow diversion structural details provided in the CAD files

▪ ***Added Task 5 –Obtain Permits for Work in Dominguez Channel***

Engineer shall, using Chambers Group, prepare and obtain permits to allow the work to be done within the channel. This includes both the cofferdam and the bridge construction. US Army Corps of Engineers (USACE) 404 Permit, Regional Water Quality Board (RWQB) 401 Water Quality Certification, and California Department of Fish and Wildlife (CDFW) Section 1602 Streambed Alteration Agreement Notification permits will be obtained. All filing fees are excluded and will be paid for by the City.

▪ ***Added Task 6 – Provide CEQA Compliance Documents for Caltrans Re-Certification***

Engineer shall perform the following CEQA review for City:

6(a) Noise Study Report

Engineer shall prepare a written noise study report for Project No. 675 consistent with California Department of Transportation (“Caltrans”) guidelines. Such report shall summarize the results of the previous tasks and be prepared according to the guidelines provided in *Traffic Noise Analysis Protocol*, prepared by Caltrans, 2011, and shall include the follow content, analysis, and/or evaluation(s):

1. Detail the purpose of the Noise Study Report, including the extent of Project No. 675 study area and requirements for a Type II project.
2. Identify transportation-related noise sources such as major arterial roadways, railroads, and aircraft noise (if any), and stationary (non-transportation related) noise impacts to the project study area.
3. Detail fundamentals of traffic noise that include noise source characteristics, noise propagation, and definition of decibels and other noise descriptors.
4. Identify applicable noise regulations and standards.
5. Evaluate the existing noise environment in the vicinity of the project site and obtain long-term (approximately 24-hour) noise

measurements at two (2) locations in order to determine the existing noise impacts.

6. Utilize the Federal Highway Administration's ("FHWA") Roadway Construction Noise Model ("RCNM") Version 1.01 to analyze potential noise impacts associated with roadway construction activities and identify measures to minimize the noise impacts at the nearby residences.

7. Analyze potential vibration impacts associated with construction activities through application of the methodology used in the Transportation- and Construction-Induced Vibration Guidance Manual (Vibration Guidance Manual), prepared for Caltrans.

8. Utilize the FHWA Traffic Noise Model (FHWA TNM) Version 2.5 and the traffic volumes provided in the Traffic Study to calculate the noise impacts to representative nearby sensitive receptors for without project and with project scenarios.

9. Compare the existing and future without and with project calculated noise levels with Caltrans Noise Abatement Criteria of 67 dBA Leq for the nearby sensitive receptors (if any). Detail if any exceedance of a noise standard currently occurs.

6(b) Location Hydraulic Study

Engineer shall prepare the Local Hydraulic Study to comply with the requirements of the National Environmental Policy Act ("NEPA").

Item 3 of the Location Hydraulic Study requires the calculation of the Hydraulic Data, including the flow rate and water surface elevation for the 100 year base flood. It is assumed the County has readily available Hydraulic data, and the calculation of the flow rate and water surface elevation of the 100 year base flood is excluded from the Scope of Work.. The County is currently doing a study of the Hydraulic capacity of Dominguez Channel, and the hydraulic data should be included in this study. The widening of the bridge does not impact the hydraulics of the existing channel, so no proposed hydraulic calculations will be required.

6(c) Water Quality Report

Engineer shall, through its sub-consultant Chambers Group, prepare a written Water Quality Assessment Report ("WQAR") to comply with the requirements of the National Environmental Policy Act ("NEPA") and CEQA, which shall provide the information required for the National Pollution Discharge Elimination System ("NPDES") permitting and shall include the following content:

1. A presentation of a discussion of Project No. 675, the physical setting of the project area, and the regulatory framework with respect to water quality.

2. A presentation of data on surface water and groundwater resources within the project area and their water quality health, describe water quality impairments and beneficial uses, identify potential water quality impacts/benefits associated with the Project No. 675, and recommend avoidance and/or minimization measures for potentially adverse impacts. Engineer shall, through its sub-consultant Chambers Group, complete such report using publicly-available information and a desktop study.

3. Engineer shall, through its sub-consultant Chambers Group, submit one (1) electronic copy of the draft WQAR within three (3) weeks of notice to proceed. Engineer shall, through its sub-consultant Chambers Group, coordinate the report findings with City and incorporate one round of public comments on the Draft WQAR into a Final Report. If desired, City may submit the WQAR to Caltrans for approval prior to returning comments back to Engineer to expedite the process. One (1) electronic copy of the final WQAR will be submitted to City's Contract Manager. This sub-task does not include a in-situ water quality sampling or analysis.

6(d) Natural Environmental Study – Minimal Impact, NES(MI)

Engineer shall, through its sub-consultant Chambers Group, prior to commencing the general biological survey, conduct a literature review to determine if there are any existing records of listed and/or sensitive plant and wildlife species occurring on or in the vicinity of the Project. This sub-task shall include a review of the CDFW California Natural Diversity Database ("CNDDDB"), the California Native Plant Society's Electronic Inventory, and the United States Fish and Wildlife ("USFWS") species occurrence data for relevant information. In addition, biological information included in reports previously prepared for this Project or adjacent projects (if available) will be reviewed.

After conducting the literature search, Engineer shall, through its sub-consultant Chambers Group, conduct a reconnaissance-level survey of the Project No. 675 (within 150 feet of expected project disturbance). Vegetation communities on the Project No. 675 and the immediate vicinity will be surveyed, mapped, and qualitatively described. Such field survey will focus primarily on determining the presence or potential presence of federal- or state-listed or otherwise sensitive plant and wildlife species and sensitive habitats. Photographs will be taken to document the current conditions of the Project No. 675 and vicinity. Plants and wildlife observed during the survey will be recorded.

Engineer shall, through its sub-consultant Chambers Group, incorporate the jurisdictional delineation survey on the Project No. 675 site. The purpose of the field surveys will be to delineate areas of the Project No. 675 site that may fall under the regulatory jurisdiction of the USACE

pursuant to Section 404 of the Clean Water Act, Regional Water Quality Control Board ("RWQCB") jurisdiction pursuant to Section 401 of the Clean Water Act, and CDFW jurisdiction pursuant to Section 1602 of the California Fish & Game Code.

To determine jurisdictional areas, Engineer shall, through its sub-consultant Chambers Group, investigate criteria specified by the USACE, RWQCB, and CDFW. Wetland boundaries (if present) will be determined using the current accepted methodology prescribed in the USACE 1987 Wetland Delineation Manual and the USACE 2008 Guidelines for Jurisdictional Delineations in the Arid Southwest. This methodology requires positive evidence of hydrophytic vegetation, hydric soils, and wetlands hydrology for a determination that an area is a wetland. If potential wetlands are identified, data plots will be established to determine the wetlands/uplands boundaries. Photographs will be taken to document the current conditions of the Project site and vicinity.

As a result of the foregoing analysis Engineer shall, through its sub-consultant Chambers Group, prepare a written Natural Environment Study Minimal Impact ("NES(MI)") analysis using the results of the biological survey in accordance with Caltrans format requirements and guidelines using the most recent template found in the Caltrans Standard Environmental Reference online at the time of survey.

Such NES(MI) shall summarize the potential Project No. 675 impacts and will provide a discussion of Project No. 675 design and mitigation recommendations to avoid and minimize these impacts. Such NES(MI) shall identify whether any areas on the Project are potentially under USACE, RWQCB, and/or CDFW jurisdiction. Such NES(MI) shall be no more than 15 pages, single spaced, and shall include a vicinity map, biological resources map, waters delineation map, and photographs of the site.

Engineer shall, through its sub-consultant Chambers Group, submit one (1) electronic copy of the draft NES(MI) within six (3) weeks of completing the biological survey. Engineer shall, through its sub-consultant Chambers Group, coordinate the report findings with City's Contract Manager and incorporate one round of comments on the Draft NES(MI) Report into a Final Report. If desired, City may submit the NES(MI) to Caltrans for approval prior to returning comments back Engineer in order to expedite the process. One (1) electronic copy of the final NES(MI) will be submitted to the City.

This sub-task does not include a focused or protocol level study for any species or permitting.

6(f) Respond to Comments From the California Department of Transportation to the Air Quality Report.

Engineer shall complete the following tasks to provide a response to AQR comments:

1. Prepare a written Project No. 675 description documenting project design assumptions—such as future traffic—that are relevant to the air quality analysis. Such project description shall include a brief description of the alternatives under consideration.
2. Prepare a Regional meteorology and climate discussion. This will include a description of the area's topography as well, if pertinent to the discussion.
3. Provide a description of the applicable regulations as well as the agencies, such as air districts and MPOs that are involved with air quality in the area or region. Also outline regulations on the federal, state, local levels. Include a table outlining air quality standards on both the federal and state levels.
4. Prepare a Project No. 675 area and affected environment analysis, including the most recent 3-years of data from the nearest monitor locations, area conformity designations and classifications, and location of sensitive receptors.
5. Utilize an existing report prepared by Affinity Design Group's to quantify criteria pollutant and GHG emissions associated with each phase of construction activities utilizing the CalEEMod Model.
6. Utilize the Affinity Design Group's report to evaluate local NOx, CO, PM10, and PM2.5 emissions at the nearby sensitive receptors from construction activities utilizing the 2009 Lookup Tables and the methodology described in Localized Significance Threshold Methodology, prepared by SCAQMD, July 2008.
7. Summarize the Project No. 675 roadway section LOS for a "without" and "with" project conditions calculated in the Traffic Study for the existing conditions and detail how the proposed Project No. 675 would reduce delay and enhance air quality through a reduction in Vehicle Hours of Travel ("VHT").
8. Detail the applicable California and SCAQMD rules and regulations that would reduce project-related air emissions from construction and operational activities. Detail how each rule or regulation would reduce air impacts to nearby sensitive receptors.
9. Provide a Project-Level Carbon Monoxide Hot-Spot Conformity Analysis that will utilize the CO Protocol Flow Chart and provide step-by-step explanations of how the proposed project would conform.
10. Provide a Project-Level PM2.5/PM10 Hot-Spot Conformity Analysis that details the criteria where a Hot-Spot Conformity Analysis is required on CAA Section 93.123(b)(1) and provide step-

by-step explanations of why the proposed project is not considered a Project of Local Air Quality Concern.

11. Prepare an Air Quality Report that documents the results of the previous work tasks. The report will include an appendix with the results of any emissions modeling performed for the analysis.

Traffic Calculations

Engineer shall prepare both the Air Quality Report and Noise Study Report so as to include current daily traffic volumes and anticipated roadway level of service (LOS) calculations.

1. Obtain one (1) 24-hour mechanical vehicle count of Sepulveda Boulevard within the project study area.
2. Utilize the methodology provided in the Highway Capacity Manual, prepared by the National Research Council, to calculate the LOS for the without project conditions (4 lanes) and with project conditions (4 lanes).
3. Prepare a memorandum detailing the traffic calculations.

▪ Added Task 7 – Provide Engineering Support During Construction

Engineer shall, during the course of actual construction of the Sepulveda Boulevard Widening Project, provide to City engineering support professional services in the amount of 8 hours/week for each the Civil and Structural Engineer, and an additional 3 hours/week for project management and coordination. Such engineering support professional services shall consist of the following:

1. Review and respond to Contractor's RFIs. Issue drawing revisions, if needed;
2. Provide guidance and clarification to City on design issues;
3. Review and approve material submittals and shop drawings;
4. Construction observation/site visits. Both the Civil and Structural Engineers will perform site visits once a month for 12 months during construction.
5. It is assumed construction will last approximately 12 months.
6. \$10,060 was budgeted in the original contract for Bid Support, RFIs and As Builts and has not been spent.

Section 2. Section 9, "Compensation," is hereby amended, to increase the total compensation by the amount of TWO HUNDRED FORTY-FOUR THOUSAND, SIX HUNDRED NINETY-THREE DOLLARS (\$244,693.00), resulting in a total compensation not to exceed FOUR HUNDRED THIRTY-TWO THOUSAND, TWO HUNDRED NINETY-THREE DOLLARS (\$432,293.00).

3. **Continuing Effect of Agreement.** Except as expressly amended by this First Amendment, all other provisions of the Agreement shall remain in full force and

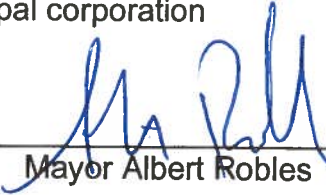
effect. From and after the date of this First Amendment, whenever the term "Agreement" appears in the Agreement, it shall mean the Agreement, as amended by this First Amendment.

[SIGNATURES OF FOLLOWING PAGE]

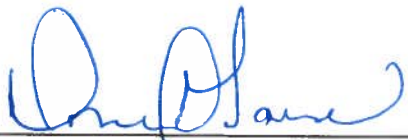
IN WITNESS WHEREOF, the parties have caused their duly authorized representatives to execute this First Amendment as of the date first written above.

“CITY ”

CITY OF CARSON, a general law city & municipal corporation

By: 
Mayor Albert Robles

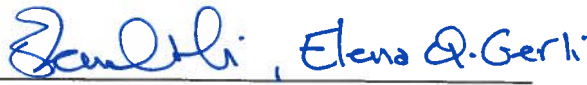
ATTEST:

By: 

City Clerk

APPROVED AS TO FORM:

ALESHIRE & WYNDER, LLP

By: 
Asst City Attorney

“ENGINEER”

RKA CONSULTING GROUP
a California corporation

By: 

Name: Dominic Milano

Title: President / CFO

Address: 398 Lemon Creek Dr. ste E, Walnut, CA 91789

By: 

Name: David Gilbertson

Title: Vice President/secretary

Address: 398 Lemon Creek Dr. ste E, Walnut CA 91789

Two corporate officer signatures required when Consultant is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. CONSULTANT'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On May 18, 2016 before me, NATALIE ANNETTE VINALES, Notary Public, personally appeared Dominic Milano, proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Natalie Annette Vinales



OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

- CAPACITY CLAIMED BY SIGNER**
- INDIVIDUAL
- CORPORATE OFFICER
PRESIDENT / CFO
TITLE(S)
- PARTNER(S) LIMITED
 GENERAL
- ATTORNEY-IN-FACT
- TRUSTEE(S)
- GUARDIAN/CONSERVATOR
- OTHER _____

DESCRIPTION OF ATTACHED DOCUMENT

FIRST AMENDMENT - PSA
Project No. 675
TITLE OR TYPE OF DOCUMENT

22
NUMBER OF PAGES

DATE OF DOCUMENT

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))
RKA CONSULTING GROUP

SIGNER(S) OTHER THAN NAMED ABOVE

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On May 18, 2016 before me, NATALIE ANNETTE VINALES, Notary Public, personally appeared DAVID GILBERTSON who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Natalie Annette Vinales



OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER	DESCRIPTION OF ATTACHED DOCUMENT
<input type="checkbox"/> INDIVIDUAL <input checked="" type="checkbox"/> CORPORATE OFFICER <u>VICE PRESIDENT / SECRETARY</u> TITLE(S)	<u>FIRST AMENDMENT - PSA</u> <u>PROJECT NO. 675</u> TITLE OR TYPE OF DOCUMENT
<input type="checkbox"/> PARTNER(S) <input type="checkbox"/> LIMITED <input type="checkbox"/> GENERAL	<u>22</u> NUMBER OF PAGES
<input type="checkbox"/> ATTORNEY-IN-FACT <input type="checkbox"/> TRUSTEE(S) <input type="checkbox"/> GUARDIAN/CONSERVATOR <input type="checkbox"/> OTHER _____	_____ DATE OF DOCUMENT
SIGNER IS REPRESENTING: (NAME OF PERSON(S) OR ENTITY(IES)) <u>RKA CONSULTING GROUP</u>	_____ SIGNER(S) OTHER THAN NAMED ABOVE

EXHIBIT "A"

SCOPE OF SERVICES

▪ ***Task 1 – Modify Plans Based on the Structural Constructability Review***

The final design of the Structural plans was completed and the plans were submitted to the City and County for approval on February 18, 2016. RKA welcomes a constructability review by an outside contractor and recognizes the value of a constructability review, but wishes the timing were better. If the Constructability Review had been completed during the 85% or even the 100% review, the comments could have been incorporated during the normal review process. By providing additional comments after the 100% plans have been submitted is an additional cost that RKA had not anticipated.

▪ ***Task 2 – Additional Scope Requested by the City on the 100% Plans***

The City requested changes to plans that were not included in the original scope. Below is a summary of the changes:

1. Add a sidewalk to the north side of Sepulveda from the Alameda Ramp to the bridge: The driveways on the north side will have to be modified. Changes will need to be made to the plans, typical sections, quantities, and estimate. The addition of this sidewalk will provide connectivity from the sidewalk on the Alameda Ramp to the existing sidewalk on the north side of Sepulveda east of the bridge.
2. Change the pavement from PCC to AC: Changing from PCC to AC required modifications to the plans, cross sections, quantities, specifications, and construction estimate. RKA investigated and presented alternative pavement options to the City, including Full Depth Reclamation and using Geogrid to reduce the total pavement section thickness.
3. Change the driveway on the south side of Sepulveda across from the Alameda Ramp to a curved entrance
4. Add crosswalks to the north and east legs of the Sepulveda/Alameda Ramp intersection: Modifications to the roadway and striping plans and a new traffic signal sheet will be needed. New curb ramps, pedestrian push buttons, pedestrian heads, poles, striping, phasing changes, quantities, estimate, and specifications will be needed.
5. Extend the construction limits on Sepulveda westerly to repair the broken pavement near the Alameda Ramp: Changes will need to be made to the plans, typical sections, quantities, and estimate.
6. Add a right turn lane on westbound Sepulveda at the Alameda Ramp: Modifications to the signing and striping plans will be necessary as well as modifying the traffic loops at the intersection.

▪ ***Task 3 –Utility Workshop and Utility Coordination***

The City will host a Utility Coordination Workshop with all of the utility agencies on Sepulveda Boulevard. RKA will prepare exhibits, attend the meeting, coordinate relocations with the Utility companies, and update the plans to reflect the changes.

▪ ***Task 4 –Design Water Diversion Details for Work in the Channel***

In the original scope, it was assumed that the Contractor will prepare the water diversion details. Based on the City’s experience with the Wilmington Project, the City desires to have the diversion details approved prior to the bid. CWE will perform a hydraulic analysis for diversion flows, design temporary flow diversion structural details, and provide details for the modifications and restoration of the stone revetment and clay liner. RKA will incorporate the CAD files provided by CWE and create two additional plan sheets. Dewatering and treatment are to be done by the Contractor and are excluded from the scope of work

▪ ***Task 5 –Obtain Permits for Work in Dominguez Channel***

Chambers Group will prepare and obtain permits to allow the work to be done within the channel. This includes both the cofferdam and the bridge construction. US Army Corps of Engineers (USACE) 404 Permit, Regional Water Quality Board (RWQB) 401 Water Quality Certification, and California Department of Fish and Wildlife (CDFW) Section 1602 Streambed Alteration Agreement Notification permits will be obtained. All filing fees are excluded and will be paid for by the City.

▪ ***Task 6 – Provide CEQA Documents for Caltrans Re-Certification***

In 2005 the City obtained a Categorical Exclusion from CEQA. In 2015 Caltrans reviewed the Categorical Exclusion, and determined five items will need to be prepared:

1. Noise Study Report

The following tasks will be completed to provide a noise study report consistent with Caltrans guidelines:

- a. Detail the purpose of the Noise Study Report, including the extent of project study area and requirements for a Type II project.
- b. Identify transportation-related noise sources such as major arterial roadways, railroads, and aircraft noise (if any), and stationary (non-transportation related) noise impacts to the project study area.
- c. Detail fundamentals of traffic noise that include noise source characteristics, noise propagation, and definition of decibels and other noise descriptors.
- d. Identify applicable noise regulations and standards.
- e. Evaluate the existing noise environment in the vicinity of the project site and obtain long-term (approximately 24-hour) noise measurements at two (2) locations in order to determine the existing noise impacts.
- f. Utilize the Federal Highway Administration’s (FHWA) Roadway Construction Noise Model (RCNM) Version 1.01 to analyze potential noise impacts associated with roadway construction activities and identify measures to minimize the noise impacts at the nearby residences.
- g. Analyze potential vibration impacts associated with construction activities through application of the methodology used in the Transportation- and Construction-Induced Vibration Guidance Manual (Vibration Guidance Manual), prepared for Caltrans.

- h. Utilize the FHWA Traffic Noise Model (FHWA TNM) Version 2.5 and the traffic volumes provided in the Traffic Study or from Optional Task 2 for existing and future scenarios to calculate the noise impacts to representative nearby sensitive receptors for without project and with project scenarios.
- i. Compare the existing and future without and with project calculated noise levels with Caltrans Noise Abatement Criteria of 67 dBA Leq for the nearby sensitive receptors (if any). Detail if any exceedance of a noise standard currently occurs.

Prepare a Noise Study Report documenting the results of the study. The report will summarize the results of the previous tasks and be prepared according to the guidelines provided in *Traffic Noise Analysis Protocol*, prepared by Caltrans, 2011.

2. Location Hydraulic Study

It is assumed the County has readily available Hydraulic data (100 year flow rate and water surface elevation). The County is currently doing a study of the Hydraulic capacity of Dominguez Channel. The widening of the bridge does not impact the hydraulics of the existing channel, so no proposed hydraulic calculations will be required.

3. Water Quality Report

The primary purpose of the Water Quality Assessment Report (WQAR) is to fulfill the requirements of the National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA), and provide information, to the extent possible, for the National Pollution Discharge Elimination System (NPDES) permitting.

This technical study includes a discussion of the proposed project, the physical setting of the project area, and the regulatory framework with respect to water quality. It also provides data on surface water and groundwater resources within the project area and their water quality health, describes water quality impairments and beneficial uses, identifies potential water quality impacts/benefits associated with the proposed project, and recommends avoidance and/or minimization measures for potentially adverse impacts. Chambers Group will complete the report using publicly-available information and a desktop study.

Chambers Group will submit one (1) electronic copy of the draft WQAR within three (3) weeks of notice to proceed. Chambers Group will coordinate the report findings with the City and incorporate one round of comments on the Draft WQAR into a Final Report. If desired, the City may submit the WQAR to Caltrans for approval prior to returning comments back to Chambers Group to expedite the process. One (1) electronic copy of the final WQAR will be submitted to the City. This task does not include an in-situ water quality sampling or analysis; these services may be provided as optional tasks under a separate scope of work and fee.

4. Natural Environmental Study – Minimal Impact, NES(MI)

Prior to commencing the general biological survey, Chambers Group will conduct a literature review to determine if there are any existing records of listed and/or sensitive plant and wildlife species occurring on or in the vicinity of the Project. This task will include a review of the CDFW California Natural Diversity Database (CNDDDB), the California Native Plant Society's Electronic Inventory, and the United States Fish and Wildlife (USFWS) species occurrence data for relevant information. In addition, biological information included in reports previously prepared for this Project or adjacent projects (if available) will be reviewed.

After conducting the literature search, biologists will conduct a reconnaissance-level survey of the Project area (within 150 feet of expected project disturbance). Vegetation communities on the Project site and the immediate vicinity will be surveyed, mapped, and qualitatively described. The field survey will focus primarily on determining the presence or potential presence of federal- or state-listed or otherwise sensitive plant and wildlife species and sensitive habitats. Photographs will be taken to document the current conditions of the Project site and vicinity. Plants and wildlife observed during the survey will be recorded.

In addition, the biologists will incorporate the jurisdictional delineation survey on the Project site. The purpose of the field surveys will be to delineate areas of the Project site that may fall under the regulatory jurisdiction of the USACE pursuant to Section 404 of the Clean Water Act, RWQCB jurisdiction pursuant to Section 401 of the Clean Water Act, and CDFW jurisdiction pursuant to Section 1602 of the Fish and Game Code. To determine jurisdictional areas, the biologists will investigate criteria specified by the agencies. Wetland boundaries (if present) will be determined using the current accepted methodology prescribed in the USACE 1987 Wetland Delineation Manual and the USACE 2008 Guidelines for Jurisdictional Delineations in the Arid Southwest. This methodology requires positive evidence of hydrophytic vegetation, hydric soils, and wetlands hydrology for a determination that an area is a wetland. If potential wetlands are identified, data plots will be established to determine the wetlands/uplands boundaries. Photographs will be taken to document the current conditions of the Project site and vicinity.

Chambers Group will prepare a Natural Environment Study Minimal Impact (NES(MI)) document using the results of the biological survey in accordance with Caltrans format requirements and guidelines using the most recent template found in the Caltrans Standard Environmental Reference online at the time of survey.

This NES(MI) will summarize the potential Project impacts and will provide a discussion of Project design and mitigation recommendations to avoid and minimize these impacts. The report will identify whether any areas on the Project are potentially under USACE, RWQCB, and/or CDFW jurisdiction. Chambers Group assumes the NES(MI) will be no more than 15 pages, including a vicinity map, biological resources map, waters delineation map, and photographs of the site.

Chambers Group will submit one (1) electronic copy of the draft NES(MI) within six (3) weeks of completing the biological survey. Chambers Group will coordinate the report findings with the City and incorporate one round of comments on the Draft NES(MI) Report into a Final Report. If desired, the City may submit the NES(MI) to Caltrans for approval prior to returning comments back to Chambers Group to expedite the process. One (1) electronic copy of the final NES(MI) will be submitted to the City.

This task does not include a focused or protocol level study for any species or permitting; these services may be provided as optional tasks under a separate scope of work and fee. The need will be based on the findings of the literature review and reconnaissance survey.

Deliverables Summary for Task 4

The following deliverables will be provided as part of Task 1:

- One (1) electronic copy of the draft NES Report
- One (1) electronic copy of the final NES Report

Schedule: The field survey will commence upon receipt of NTP. Within six (6) weeks of conducting the biological resource survey, Chambers Group will provide a draft NES(MI) to the City for review. The final NES(MI) will incorporate comments from the City within one (1) week of receipt of one (1) consensus round comments.

5. Response to AQR Comments

The following tasks will be completed to provide a response to AQR comments:

- a. A basic project description documenting project design assumptions—such as future traffic—that are relevant to the air quality analysis. The project description will include a brief description of the alternatives under consideration.
- b. Regional meteorology and climate discussion. This will include a description of the area's topography as well, if pertinent to the discussion.
- c. Regulatory Framework. Provide a description of the applicable regulations as well as the agencies, such as air districts and MPOs that are involved with air quality in the area or region. Also outline regulations on the federal, state, local levels. Include a table outlining air quality standards on both the federal and state levels.
- d. Project area and affected environment: This will include most recent 3- years of data from the nearest monitor locations, area conformity designations and classifications, and location of sensitive receptors.
- e. Utilize the Affinity Design Group's report to quantify criteria pollutant and GHG emissions associated with each phase of construction activities utilizing the CalEEMod Model.
- f. Utilize the Affinity Design Group's report to evaluate local NO_x, CO, PM₁₀, and PM_{2.5} emissions at the nearby sensitive receptors from construction activities utilizing the 2009 Lookup Tables and the methodology described in

Localized Significance Threshold Methodology, prepared by SCAQMD, July 2008.

- g. Summarize the roadway section LOS for without and with project conditions calculated in the Traffic Study, or from optional Task 3 for the existing conditions and detail how the proposed project would reduce delay and enhance air quality through a reduction in vehicle hours of travel (VHT).
- h. Provide applicable State and SCAQMD rules and regulations that would reduce project-related air emissions from construction and operational activities. Detail how each rule or regulation would reduce air impacts to nearby sensitive receptors.
- i. Provide a Project-Level Carbon Monoxide Hot-Spot Conformity Analysis that will utilize the CO Protocol Flow Chart and provide step-by-step explanations of how the proposed project would conform.
- j. Provide a Project-Level PM_{2.5}/PM₁₀ Hot-Spot Conformity Analysis that details the criteria where a Hot-Spot Conformity Analysis is required on CAA Section 93.123(b)(1) and provide step-by-step explanations of why the proposed project is not considered a Project of Local Air Quality Concern.
- k. Prepare an Air Quality Report that documents the results of the previous work tasks. The report will include an appendix with the results of any emissions modeling performed for the analysis.

6. Traffic Calculations

Both the Air Quality Report and Noise Study Report require current daily traffic volumes and anticipated roadway level of service (LOS) calculations.

- a. Obtain one (1) 24-hour mechanical vehicle count of Sepulveda Boulevard within the project study area.
- b. Utilize the methodology provided in the Highway Capacity Manual, prepared by the National Research Council, to calculate the LOS for the without project conditions (4 lanes) and with project conditions (4 lanes).
- c. Prepare a memorandum detailing the traffic calculations

▪ Task 7 – Provide Engineering Support During Construction

Engineering support during construction was not part of the original scope of work. In order to provide the continuity of having the Engineers of Record on the project during construction, the City has requested RKA and KEC to provide engineering support during construction. A separate consultant will be hired to provide Construction Management. The budgeted hours equate to approximately 8 hours/week for each the Civil and Structural Engineer, and an additional 3 hours/week for project management and coordination.

1. Review and respond to Contractor's RFIs. Issue drawing revisions, if needed.
2. Provide guidance and clarification to the City on design issues
3. Review and approve material submittals and shop drawings
4. Construction observation/site visits. Both the Civil and Structural Engineers will perform site visits once a month for 12 months during construction.

5. It is assumed construction will last approximately 12 months.
6. \$10,060 was budgeted in the original contract for Bid Support, RFIs and As Builts and has not been spent.

EXHIBIT "B"

**SPECIAL REQUIREMENTS
(Superseding Contract Boilerplate)**

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EXHIBIT "C"

SCHEDULE OF COMPENSATION

Consultant shall perform the following tasks at the following rates:

Title/Company	RATE/HR	LUMP SUM
A. Project Manager	\$140.00	
B. Project Engineer.....	\$115.00	
C. Structural Engineer (sub consultant).....	\$172.50	
D. Clerical (sub consultant)	\$97.75	
E. Chambers Group (sub consultant)		
a. Permits		\$21,620.00
b. CEQA.....		\$38,755.00
F. CWE (sub consultant).....		\$16,445.00

- I. Within the budgeted amounts for each Task, and with the approval of the Contract Officer, funds may be shifted from one Task subbudget to another so long as the Contract Sum is not exceeded per Section 9, unless Additional Services are approved per Section 3.

- II. The City will compensate Consultant for the Services performed upon submission of a valid invoice. Each invoice is to include:
 - A. Line items for all personnel describing the work performed, the number of hours worked, and the hourly rate.
 - B. Line items for all materials and equipment properly charged to the Services.
 - C. Line items for all other approved reimbursable expenses claimed, with supporting documentation.
 - D. Line items for all approved subcontractor labor, supplies, equipment, and materials charged to the Services.

- III. The total compensation for the Services shall not exceed \$432,293 as provided in Section 9 of this Agreement.

- IV. The Consultant's billing rates for all personnel are attached as Exhibit C.

EXHIBIT "D"

SCHEDULE OF PERFORMANCE

- I. Consultant shall perform all Services timely in accordance with the schedule developed by Consultant as indicated on the spreadsheet shown in Exhibit "C."**