April 30, 2024

Mr. Bassam AL-Beitawi
Senior Project Manager
City of Palm Desert
73-510 Fred Waring Dr,
Palm Desert, CA 92260

RE: ***Proposal for Engineering Services in the City of Palm Desert***

Dear Mr. AL-Beitawi:

Kimley-Horn and Associates, Inc. (Kimley-Horn or "the Consultant") is pleased to submit this letter proposal (the "Proposal") to the City of Palm Desert (the "Client") to perform the several tasks listed in the following sections.

Scope of Services

Our scope of services and fee to perform these services are included below.

Task 1: Project Management & Meetings

The Kimley-Horn team will provide the following services for commencement and administration of the projects.

Task 1.1 – Project Team Meetings

Project Team (PT) progress meetings will be conducted to maintain regular communication on upcoming tasks and identify challenges. We have budgeted up to twelve PT meetings (virtual and/or face to face as possible) to support the project.

Kimley-Horn will develop the agenda and prepare a summary of PT meeting notes with a list of decisions, actions, and responsible party.

Deliverables: Kick-off meeting attendance and notes; PT status meetings and meeting notes (total of up to twelve meetings)

- Final in PDF format

Task 2: El Paseo Raised Mid-Block Crosswalk Design

Task 2.1 – Data Collection

Kimley-Horn will collect readily available as-builts and documentation from the City. Information will be inputted into the project base plan to build the basis for design. This task assumes that no utility coordination will be provided under this Project.

Kimley-Horn will obtain a design level topographic survey and include in the project base map. The basis of survey is the North American Datum of 1983 (NAD 83) (Epoch 2010) and State Plane Coordinates (California Coordinate System 1983, Zone 5, US survey foot). Elevations will be GPS derived and per North American Vertical Datum of 1988 (NAVD 88). Collected data will be referenced to find centerline or property monuments in the vicinity of the survey. The survey limits will be from back of sidewalk to back of sidewalk from each side of the corridor and will show: flowlines, lip gutter, top of curb, back of sidewalk, grade breaks, all points of curb ramp, surface visible utilities, striping,

and other features that extend 25 feet beyond the survey limits. The survey will be delivered in .pdf, .dwg, and .shp files. Project limits are shown in **Figure 1** highlighted in blue.

Figure 1 - Raised Mid-Block Crosswalks Project Limits

Task 2.2 – Crosswalk Design
Kimley-Horn has teamed with Paul Hobson to provide five (5) conceptual design for the landing surface of the raised crosswalks on El Paseo. The designs will be rendered in Photoshop by Paul Hobson and presented to the City to approve a new art design for the crosswalks. The selected design will replace the design on the existing raised crosswalk and will be added to the new raised crosswalks as listed in the subsequent task.

Deliverables:

- Five (5) Conceptual Crosswalk Designs

Task 2.3 – Plans, Specifications, and Estimates (PS&E)
Kimley-Horn will prepare signing and striping plans and civil plans for the removal of existing crosswalk artwork. The plans will also show the proposed raised mid-block crosswalks with RRFB systems design along El Paseo. Kimley-Horn will provide design plans for the following locations:

- El Paseo – between San Pablo Avenue and Larkspur Lane (Up to one (1) sheet)
- El Paseo – between Larkspur Lane and San Luis Rey Avenue* (Up to two (2) sheets)
- Larkspur Lane – between El Paseo and Shadow Mountain Drive* (Up to two (2) sheets)
- El Paseo – between Ocotillo Drive and Sage Lane* (Up to two (2) sheets)
- El Paseo – between Sage Lane and Lupine Lane* (Up to two (2) sheets)
- Detail Sheets (Up to two (2) sheets)
  * Project locations include civil plan sheets too.

The signing and striping plans will be prepared in accordance with current City of Palm Desert and Caltrans standards and will be prepared at 20-scale (1” = 20’) for the five (5) locations specified above. The plans will reference screened traffic signal plans provided by the City. The plans show the improvements recommended by the El Paseo Raised Mid-Block Crosswalks Study technical memorandum. This task includes 80% and 100% submittals.

The civil plans will be prepared in accordance with current City of Palm Desert and Caltrans standards and will be prepared at 20-scale (1” = 20’) for the four (4) locations specified above with an asterisk (*). The plans will reference the survey files obtained by Kimley-Horn. The plans show the improvements recommended by the El Paseo Raised Mid-Block Crosswalks Study technical memorandum. This task includes 80% and 100% submittals.

Deliverables:

- 80% Signing and Striping Plans
- 80% Civil Plans
- 100% Signing and Striping Plans
- 100% Civil Plans

Kimley-Horn will prepare project technical specifications and an OPCC. This task assumes that the boiler plate specifications will be provided by the City. This task assumes up to one round of consolidated City comments on the technical specifications and OPCC.

Deliverables:

- 80% Submittal Technical Specifications and OPCC
- 100% Submittal Technical Specifications and OPCC

Task 3: University Park Drive Dr & College Drive On-Street Parking Improvements

Task 3.1 – Data Collection

Kimley-Horn will collect readily available as-builts and documentation from the City. Kimley-Horn will conduct field observation to verify information in the field. Information will be inputted into the project base plan to build the basis for design.

Survey

Kimley-Horn will prepare an aerial-drone mapping of the Project area. Kimley-Horn's in-house aerial mapping system utilizes drone images in combination with ground control points, and real-time kinematic (RTK) GPS positioning with a cellular connection to the California Real Time Network (CRTN). The GPS elevations will be supplemented with level runs. A DJI Mavic 2 drone with be used to take aerial images from 100 feet above ground with an overlap and sidelap of 80 percent. Using ESRI'S SITESCAN software, the field data will be processed into Orthomosaics and 1-foot contour mapping at 1"=20' scale. It is assumed that all improvements will be within City right-of-way. Property lines will be shown based on data obtained from the County of Riverside GIS system.

Task 3.2 – Plans, Specifications, and Estimates (PS&E)

Kimley-Horn will prepare signing and striping plans for the parking option selected by the City from the On-Street Parking Assessment Technical Memorandum. The signing and striping plans will be prepared to show the proposed on-street parking. The signing and striping plan will be prepared in accordance with City of Palm Desert and Caltrans standards and will be prepared at 40-scale (1" = 40') on up to one (1) signing and striping sheet and up to one (1) detail sheet. The plans will reference aerial survey files and field observations performed by Kimley-Horn.

Kimley-Horn will prepare civil plans for the on-street parking option selected by the City. The civil plans will be prepared in accordance with City of Palm Desert and Caltrans standards and will be prepared at 20-scale (1" = 20') on up to one (1) civil improvement sheet and one (1) detail sheet. The plans will reference the survey files obtained by Kimley-Horn. The existing conditions feature a standard crowned section draining into curb and gutter on both sides.

Deliverables:

- 80% Signing and Striping Plans
- 80% Civil Plans
- 100% Signing and Striping Plans
- 100% Civil Plans

Kimley-Horn will prepare project technical specifications and an OPCC for the median removal. This task assumes boiler plate specifications will be provided by the City. This task assumes up to one round of consolidated City comments on the technical specifications and OPCC.

Deliverables:

- 80% Submittal Technical Specifications and OPCC
- 100% Submittal Technical Specifications and OPCC

Task 4: Cook Street & Fred Waring Drive Traffic Operation Improvements

Task 4.1 – Data Collection

Kimley-Horn will collect readily available as-builts and documentation from the City. Kimley-Horn will conduct field observation to verify information in the field. Information will be inputted into the project base plan to build the basis for design. This task assumes that no utility coordination and utility relocation will be provided under this project.

Task 4.2 – Plans, Specifications, and Estimate

Kimley-Horn will prepare traffic signal modifications plans at the intersection of Cook Street and Fred Waring Drive for a proposed right-turn overlap. The traffic signal modification plans will be prepared in accordance with current City of Palm Desert and Caltrans standards and will be prepared at 20-scale (1" = 20') on up to one (1) traffic signal modification sheet and one (1) detail sheet. The plans will reference screened traffic signal plans provided by the City. There will be an 80% and 100% submittal.

Deliverables:

- 80% Traffic Signal Modification Plan
- 100% Traffic Signal Modification Plan

Kimley-Horn will prepare project technical specifications and an OPCC. This task assumes up to one round of consolidated City comments on the technical specifications and OPCC.

Deliverables:

- 80% Submittal Technical Specifications and OPCC
- 100% Submittal Technical Specifications and OPCC

Task 4.3 – Prepare Updated Traffic Signal Timing Coordination & Traffic Signal Timing Sheets

Kimley-Horn will review and revise the existing signal timing coordination plans at the intersection of Cook Street and Fred Waring. Based on the updated coordination parameters, Kimley-Horn will prepare updated traffic signal timing sheets for Cook Street and Fred Waring

Deliverables:

- Updated signal timing sheets in PDF format for one (1) round of comments and review
- Updated final signal timing sheets in PDF format

Task 5: Mesa View Drive and Highway 74 Signal Warrant Analysis

Task 5.1 – Data Collection and Level of Service (LOS) Analysis

Kimley-Horn will collect turning movement counts for a 12-hour period at the intersection of Mesa View Drive and Highway 74. Counts will be provided for all approaches, vehicles, bicycles, and pedestrians. Kimley-Horn will gather the most recent five-year collision data within 250 feet on the intersection of Mesa View Drive and Highway 74.

Task 5.2 – Analysis Technical Memorandum

Kimley-Horn will prepare a technical memorandum to determine if the intersection of Mesa View Drive and Highway 74 satisfies the criteria for the traffic signal warrant analysis. This task will summarize the results of the traffic signal warrant analysis for the intersection of Mesa View Drive and Highway 74. The analysis will be performed using the California Manual of Uniform Traffic Control Devices (CA MUTCD)(Revision 4). This task will summarize the intersection's sight distance analysis performed using the requirements of the California Highway Design Manual (7th Edition) Chapter 400.

Deliverables

- One (1) Technical memorandum for Traffic Signal Warrant Analysis Draft in PDF format
- One (1) Technical memorandum for Traffic Signal Warrant Analysis Final in PDF format

Task 6: Portola Avenue and Magnesia Falls Drive Traffic Operation Analysis

Task 6.1 – Data Collection and Level of Service (LOS) Analysis

Kimley-Horn will collect turning movement counts for a 12-hour period at the intersection of Portola Avenue and Magnesia Falls Drive. Counts will be provided for vehicles, bicycles, and pedestrians. Kimley-Horn will collect the most recent five-year collision data within 250 feet on the intersection of Portola Avenue and Magnesia Falls Drive. The City will provide Kimley-Horn with the most recent traffic signal timing sheet for the Portola Avenue and Magnesia Falls Drive. Kimley-Horn will perform a Synchro model analysis to determine the Level of Service (LOS) and 95th percentile queue using the Highway Capacity Manual (HCM) of the existing conditions.

Task 6.2 – Analysis Technical Memorandum

Kimley-Horn will prepare a technical memorandum summarizing the results of the LOS analysis. The technical memorandum will assess the feasibility of eliminating the right turn overlap at this intersection based on the LOS analysis, field observations, potential cost, operational considerations, and existing conditions. Additionally, the technical memorandum will recommend mitigations to prevent U-turns at the median on Magnesia Fall Drive just east of the study intersection. The memo will include a planning level (OPCC) for eliminating the right turn on red restrictions at this intersection and the recommended mitigations to prevent U-turns at the median.

Deliverables

- One (1) Technical Memorandum for Traffic Operations Analysis Draft in PDF format
- One (1) Technical Memorandum for Traffic Operations Analysis Final in PDF format

Schedule

We are prepared to begin work upon receipt of authorization to proceed and will endeavor to meet the Client's schedule.

Fee and Billing

Kimley-Horn will perform the services described in the Scope of Services on a Lump Sum (LS) basis of $310,000.

Task	Fee
Task 1: Project Management & Meetings	$30,000
Task 2: El Paseo Raise Mid-Block Crosswalk Design	$130,000
Task 3: University Park Drive & College Drive On Street Parking Improvements	$85,000
Task 4: Cook Street & Fred Waring Drive Traffic Operation Improvements	$25,000
Task 5: Mesa View Drive and Highway 74 Signal Warrant Analysis	$25,000
Task 6: Portola Avenue and Magnesia Falls Drive Traffic Operation Analysis	$15,000
Total	$310,000

All permitting, application, and similar project fees will be paid directly by the City. Fees and expenses will be invoiced monthly based, as applicable, upon the percentage of services completed or actual services performed, and expenses incurred as of the invoice date.

Closure

We appreciate the opportunity to provide these services to you. Please feel free to contact me at (818) 970-2048 or Jean.fares@kimley-horn.com if you have any questions or if you need additional information.

Sincerely,

Kimley-Horn and Associates, Inc.

Jean Fares, P.E. (#TR 2097)
Project Manager