



November 11, 2020
226719-0000089.00

Andrew Simmons
City of Coachella
53990 Enterprise Way
Coachella, CA 92236

Email: asimmons@coachella.org

**Subject: Grapefruit Blvd. Urban Greening ~ Traffic Signal Design Services @ 6th Street
Coachella, CA
Change Order #2020-4**

Dear Andrew,

Pursuant to your request, we are pleased to present our change order for providing continued professional engineering services for the above-referenced project.

We proposed to provide the following services:

Task 1: Supplemental Survey

NV5 will conduct additional surveying services to determine the location of the overhead wires including sag and pole height in this intersection. Existing pull boxes and utility poles were located in our previous survey.

Task 2: Traffic Signal Design

NV5 will prepare the design for signalization of the Grapefruit Boulevard/6th Street intersection in the City of Coachella. The subject intersection is anticipated to be part of a global public improvements project encompassing Grapefruit Boulevard north and south of the intersection, including adjusting access to Grapefruit Boulevard via driveways from adjacent private properties. Limiting horizontal and vertical factors such as overhead utility lines, rights of way, and the proximity of existing structures near the intersection curb returns will be addressed as part of the larger public improvements project prior to the start of signal design.

The signal system will be designed as a four-way intersection; video detection is assumed for all legs of the intersection; and signal interconnect is not anticipated or included. Signal design will be prepared using Caltrans and City of Coachella standards. The plan will be prepared on one sheet at 1"=20' scale using City of Coachella title block and format. All required specifications and construction notes will be self-contained on the plan sheet. The service point is to be established and confirmed prior to start of design.

The design will be plan checked through up to three review cycles with the City of Coachella as part of the larger public improvements project. No Caltrans or other agency reviews are anticipated or included. Each successive level of design will build on the previous level; redesigns or reconfigurations will be considered beyond the scope of services. Plan content and design services will consist of the following:

First Submittal

- Layout of existing conditions and hardware
- Plot proposed signal design layout, including hardware locations, detection, poles, signal and mast arm type, heads, controllers, and service point
- Tentatively complete signal and pole schedule
- Plot conduit runs
- Number the detector facilities and conduit runs
- Indicate demo, salvage, or relocation of existing facilities as needed
- Add conductor schedule, phasing diagram, detector schedule
- Add general notes, specifications, and construction notes
- ADA Compliance issues will be included as part of the design

Second Submittal

- Respond to first City plan check
- Complete data in all schedules
- Size the conduit runs
- Prepare a construction quantity takeoff consistent with approximately 80% level of completion

Third Submittal

- Respond to second City plan check
- Complete all detailing and schedules for final design
- Prepare final construction quantity takeoff
- Services provided for the final submittal will be minor in nature, consisting only of superficial adjustments needed for final City approval and signature of the design.

The final plan will be prepared in ink on mylar form. This scope assumes that existing overhead utility lines are to be relocated or placed underground if it is found that a conflict exists between the proposed signal poles and the existing overhead utilities.

Task 3: Dry Utility Coordination

Coordinate with IID and others, if necessary, to determine the relocation or undergrounding (if necessary) of the overhead utilities to accommodate the proposed traffic signal. Coordinate with IID the service connection point for the traffic signal. We have assumed up to 20 hours for this task.

Task 4: Special Provisions

Special Provisions will be prepared for the Grapefruit Boulevard/6th Street intersection signal design in City of Coachella specifications format, consistent with Caltrans Standard Specifications (latest edition) and City of Coachella standards. Special provisions will be prepared and submitted for review with the second and third signal design submittal iterations.



Task 5: Meeting Time

Attendance at meetings will be on a time and materials basis, including travel time for meetings outside of San Diego County. Fee indicated below assumes up to four project team meetings. (Approximately 12 hours of project manager meeting and travel time)

Proposed Compensation

Fees listed for tasks 1, 2 and 4 will be considered Lump Sum based upon the attached rate schedule. NV5 will invoice monthly based upon the percentage complete on each task.

Fees listed for task 3 and 5 will be considered Time and Materials. NV5 will invoice these tasks by subtotal groupings based upon time spent on each task.

We propose to provide the foregoing services for up to the following fees, and City of Coachella agrees to compensate NV5 for such services as indicated below:

Breakdown of Total Fee

Task 1: Supplemental Survey	\$1,600.00
Task 2: Traffic Signal Design	\$9,575.00
Task 3: Dry Utility Coordination	\$3,300.00
Task 4: Special Provisions	\$4,200.00
Task 5: Meeting Time	\$2,340.00
RE Reimbursables Allowance	\$300.00
Tasks 1, 2 & 4 Lump Sum Fees	\$15,375.00
Tasks 3 & 5 Time & Materials Total Not to Exceed Budget	\$5,640.00
Reimbursables Allowance	\$300.00

The budgetary estimate for the above services is \$21,315.00, not to exceed without prior approval. Services do not include geotechnical services, signing and striping, traffic control plans, dry utility design (electrical, CATV, telephone), service cabinet wiring diagrams and circuitry, revisions to signal plans as a result of significant improvement plan changes, signal timing and turn-on, easement or right of way document or construction phase services.

Printing, postage, deliveries, mileage, record plans, and expenses for travel will be billed at actual cost plus 15%.

Please indicate your authorization of this work by signing in the space provided. Please email or fax a copy to us and return the original copy to our Palm Desert office. We anticipate that we will continue our work without interruption upon receipt of a signed copy of this proposal.

All terms of our original agreement with remain in place.



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We appreciate the opportunity to be of service to you. Please give us a call if you have any questions regarding this proposal at 760.341.3101.

Sincerely,

NV5, Inc.



Vickie Bridenstine, PE LEED AP
Engineering Manager



Carmen Kasner, PE
Regional Managing Director

Attachment: 2019 PW Rate Sheet

Accepted By:

Signature / Print Name

Date: _____

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All fees and other charges due NV5 will be billed every four weeks and shall be due at the time of billing. If Client fails to pay NV5 within thirty (30) days, Client agrees to pay a monthly late payment charge, which will be the lesser of one and one-half percent (1-1/2%) per month or a monthly charge not to exceed the maximum legal rate which will be applied to any unpaid balance commencing thirty (30) days after the date of the billing. Client agrees to limit the liability of Consultant, its principals, employees and sub consultants, to Client and to all contractors and subcontractors on the project, for any claim or action arising in tort, contract, or strict liability, to Consultant's fee. Client and Consultant acknowledge that this provision was expressly negotiated and agreed upon.

NV5

City of Coachella
Grapefruit Boulevard
2019 Prevailing Wage Charge Rates Schedule

Office:

Technical Services

Engineering Aide/Planning Aide	\$55.00/hour
Project Assistant	\$70.00/hour
Project Administrator	\$85.00/hour
CADD Technician I.....	\$90.00/hour
CADD Technician II.....	\$110.00/hour
CADD Technician III	\$115.00/hour
Senior CADD Technician/Designer	\$120.00/hour
Design Supervisor.....	\$130.00/hour

Professional

Junior Engineer/Planner/Surveyor.....	\$75.00/hour
Assistant Engineer/Planner/Surveyor.....	\$100.00/hour
Associate Engineer/Planner/Surveyor.....	\$115.00/hour
Senior Planner/Surveyor	\$130.00/hour
Manager.....	\$160.00/hour
Senior Engineer.....	\$150.00/hour
Associate.....	\$195.00/hour
Principal.....	\$210.00/hour

Field:

Construction Management

Junior Field Engineer.....	\$141.00/hour
Assistant Field Engineer.....	\$166.00/hour
Associate Field Engineer.....	\$183.00/hour
Senior Field Engineer	\$193.00/hour
Construction Manager	\$198.00/hour

Surveying

1-Person Survey Crew	\$140.00/hour
2-Person Survey Crew.....	\$240.00/hour
3-Person Survey Crew.....	\$280.00/hour
Survey Manager.....	\$160.00/hour

Expenses:

Plotting and In-house Reproduction	1.15 x Cost
Subsistence.....	1.15 x Cost
Other Expenses - Including Subconsultants & Purchased Services through Subcontracts.....	1.15 x Cost
Mileage - Outside local area.....	Per accepted IRS rate

Rates are effective through December 31, 2020. If contract assignment extends beyond that date, a new rate schedule will be added to the contract. Litigation support will be billed at \$300.00 per hour. Rates based on "Prevailing Wage" for Construction Management and Surveying will be determined by Project and County per California law. Eff: 8.8.19

