

City of Holtville

Request for Proposals

**For Resident Engineering &
Construction Management Services**

for the

CITYWIDE PAVEMENT IMPROVEMENTS PROJECT

Thursday, September 27, 2018

**Requested by:
Nick Wells, City Manager
City of Holtville
121 W Fifth Street
Holtville, California 92250**

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I. PROCUREMENT STATEMENT

**CITY OF HOLTVILLE
REQUEST FOR PROPOSALS
for
Resident Engineering and Construction Management Services
for the Citywide Pavement Improvements Project**

NOTICE IS HEREBY GIVEN that the City of Holtville (hereinafter referred to as the "City"), acting by and through its City Council, is requesting PROPOSALS from qualified construction management and field inspection professionals to provide **Resident Engineering and Construction Management Services** for the following project in the City:

**Citywide Pavement Improvements Project
Also referred to as the
"City of Holtville – Citywide Improvements Project"**

Funding for this project is provided through the 2018 Imperial County Local Transportation Authority Bonds, which will be financed through existing local sales tax. Full time inspection services shall be provided for the duration of the construction work.

SUBMISSION DEADLINE: Receipt up to, but no later than 4:00 p.m., Friday, October 12, 2018

To be considered for negotiation and award of a contract, five (4) paper copies (one unbound, please) and one (1) electronic copy (CD or USB Drive) of proposals must be received by the date and time specified above in a sealed package. The consultant's Costs & Fees must be provided in a separate sealed envelope marked "COST PROPOSAL" within the main RFP submittal package. The RFP package must be delivered to:

Holtville City Hall
121 West Fifth Street
Holtville, California 92250
Attention: Nick Wells, City Manager

Any agreement entered into pursuant to this notice will incorporate the provisions of Federal Davis-Bacon law and State Labor Code of the State of California. Compliance with the higher of Federal or State prevailing rates of wages established by Davis Bacon and the State Director of Industrial Relations will be required. This includes compliance with prevailing wage rates and their payment in accordance with California Labor Code, Section 1720 and 1775. Affirmative action to ensure against discrimination in employment practices on the basis of race, color, national origin, ancestry, gender identification, or religion will also be required.

Questions should be directed to the City of Holtville Project Administrator listed below. Copies of the Request for Proposals may be obtained on the **Holtville.ca.gov** website or at the address listed below:

Mr. Nicholas D. Wells
City Manager/Project Administrator
121 West Fifth Street
Holtville, California 92250
Phone: (760) 356-4574

Proposals will be evaluated by a committee. It is the City's intention to select the Consultant whose qualifications and understanding of the project are deemed most advantageous to the City in accordance with this Request for Proposals. The Selection Committee's recommendation will be forwarded to the Holtville City Council for final determination.

The City reserves the right to reject any or all Proposals, or to waive any irregularities or informalities in any proposals or in the proposal and selection process.

Agreements shall not be entered into with a consultant without an adequate financial management and accounting system as required by 48 CFR Part 16.301-3, 49 CFR Part 18, and 48 CFR Part 31.

II. SCHEDULE OF EVENTS

The remaining Schedule of Events for the project, including this Resident Engineering & Construction Management Services Procurement Phase is as follows:

| | |
|---|---|
| Issue Request for Proposals | Thursday, September 27, 2018 |
| Construction Pre-Bid Conference (<i>Holtville City Hall</i>) | Tuesday, October 02, 2018 |
| RE/CM Proposals Due | Friday, October 12, 2018 |
| RE/CM Bid Evaluation | Tuesday, October 16, 2018 |
| Construction Bid Opening (<i>Holtville City Hall</i>) | Tuesday, October 16, 2018 |
| Award of Construction & RE/CM Contracts | Monday, October 22, 2018 |
| Submittals / Document Review | Thursday, October 25, 2018 through Thursday, November 08, 2018 |
| Pre-Construction Conference (<i>Holtville City Hall</i>) | Friday, November 02, 2018 |
| Notice to Proceed | Friday, November 02, 2018 |
| Project Construction (95 Calendar Days) | Tuesday, November 13, 2018 through Friday, February 15, 2019 |
| Conduct Final Project Inspection with Contractor & City of Holtville Representatives | Monday, February 11, 2019 |
| File Notice of Completion at Imperial County Recorder's Office | Monday, February 18, 2019 |

III. PROJECT DESCRIPTION

The intention of the proposed Holtville Citywide Street Improvements Project (2018-19) is to rehabilitate the existing City of Holtville Street System. The City of Holtville Street System consists of 17.74 miles of streets, the majority of which have curb and gutter bordering the street edges. A Street Improvement Map (SIM) has been completed and is included as "Attachment A" of this document.

The SIM designates the type of rehabilitation method to be used to improve each street section throughout the 17.74 mile street system. Improvements range from crack sealing followed by a type 2 slurry sealcoat, to more deteriorated street sections that will receive an Asphalt Rubber Aggregate Membrane (ARAM) followed by a type 2 slurry sealcoat. It will be necessary to replace isolated pavement failure areas within these street rehabilitation roadway sections. The failure areas are to be removed and replaced with A.C. pavement.

There is a significant amount of traffic striping within the Holtville Street System, especially in the area of the schools, churches and Holt Park. Replacement of the traffic striping in accordance with the existing traffic striping configuration/layout will be required. It will be necessary to identify water valve risers and covers, gas valve risers and covers and manhole frames and covers and remove the slurry material from the frames and covers.

IV. SCOPE OF WORK

The Scope of Work is to provide the necessary full time Resident Engineer, Construction Management, and Inspection services to the City of Holtville in accordance with all provisions within this Request for Proposals (RFP). These services will be required from the date of award of the RE/CM contract, through the end of construction, through completion of all punch list items and submission of all documentation after the the Notice of Completion. Consultant is also expected to prepare for and physically attend any financial or process audits during the construction phase and/or after filing of the Notice of Completion. Project related duties include, but are not limited to: construction contract document review; monthly quantity estimate reviews for contractor completed work; contractor payment request reviews and recommendations regarding approval of payment requests; preconstruction meeting and project closure documentation and similar items.

The RE shall be a California licensed Civil Engineer. The RE will monitor and ensure that all required improvements are completed in accordance with the project improvement plans, specifications and the City of Holtville Quality Assurance Program. Consultant is expected to insure that all work is performed in accordance with all applicable local, state and federal standards and guidelines, as well as the City of Holtville Standard Details and Specifications.

The Consultant shall provide the services of a Labor Standards Compliance Officer with a minimum of five (5) years' experience in Labor Standards Compliance Monitoring. Certified payrolls shall be submitted by the Contractor, reviewed by the Labor Standards Compliance Officer and forwarded to the City of Holtville on a weekly basis. Caltrans Construction CEM 2504 or a similar format shall be utilized for employee interviews and originals shall go to:

Holtville City Clerk
121 W Fifth Street
Holtville, CA 92250

The construction contractor will acquire the services of a Geotechnical Consultant to complete the project geotechnical testing in accordance with the City of Holtville Quality Assurance Program (QAP), dated July 14, 2014. The Geotechnical Consultant will provide a certified person or persons as needed provide the testing services for this specific project. The RE is to coordinate and monitor geotechnical testing during the construction process.

The Resident Engineer shall check the native subbase grades, subgrade elevations and finish grade elevations prior to the installation of subgrade and finish grade materials to ensure the proper depth of materials are installed and the materials quantity placed at the project site is properly controlled. The RE shall check the subbase grades within the elevation tolerances listed in the specifications. The RE shall maintain level notes and records confirming the materials were placed to the proper grades and within the required tolerances. Quantity exceedance shall be immediately reported to the City Contract Administrator and noted in the RE's Daily Reports and Daily Material Spreadsheets.

RE shall prepare a daily activity log for each construction work day. The daily activity log shall include the date, weather condition, workers present at the site, the times the workers were present at the site, equipment used at the site, the times the Geotechnical Consultants were at the project site, the times City of Holtville representatives were at the site, summary of construction activities, materials delivered, listing of material delivery slips, daily photos, other special events and concerns in accordance with the City of Holtville daily activity log format. The Daily Activity Log will be e-mailed to all pertinent parties at the conclusion of each work day.

The RE shall prepare a spreadsheet listing all of the Contractor's proposal items, units, unit costs, bid set quantities and bid set costs. The spreadsheet shall be updated at the conclusion of each work day and include the actual quantities placed at the project site, actual total cost of the item and difference between the total bid set cost and total actual cost. The spreadsheet shall be forwarded to the City Contract Administrator at the conclusion of each day along with the Daily Activity Log. The Resident Engineer shall keep and maintain copies of the material delivery slips. A material delivery slip chart listing the material

delivery slip date, quantity of material, slip number and total materials delivered for each work day shall be prepared by the Resident Engineer.

The RE will be the designated contact for communications and coordination between the City, the Contractor, the geotechnical consultant, Labor Compliance Officer and other parties involved with the construction. The RE will coordinate, schedule and conduct weekly construction progress meetings with the Contractor, the City Project Administrator and all other pertinent parties. The RE will also provide a weekly written summary for the City which includes project progress, key project photographs, a weekly plan and pending issues. The daily and weekly reports shall be forwarded to the City Project Administrator, Contractor, and all other pertinent parties. The reports shall be emailed in electronic PDF format. All original hard copy project records shall be provided to the City Project Administrator upon request for review, oversight and record keeping.

The Resident Engineer shall promptly respond to Contractor's questions per Request for Information forms (RFIs). The RFIs shall be communicated to the City Contract Administrator. The RE shall maintain all RFIs in a project notebook and in an electronic file folder.

The Resident Engineer shall assist with the completion of the Contractor's Monthly Payment Request prior to submitting it to the City Project Administrator. The RE shall review Monthly Pay Requests for the Contractor in detail to determine whether each invoice is accurate and justified. The RE shall be the primary contact with the Contractor, material testers and any other parties related to the project. The RE shall forward Payment Requests to the City Contract Administrator for review and payment. The RE shall keep an accurate record of all expenses and change orders.

The Resident Engineer shall also assist with the review of change orders submitted by the Contractor (as required) and meet with the City Contract Administrator prior to issuing a response to a change order request. If a change order is approved, the RE will assist in processing the change order and insuring that it is reflected in the payment request.

The Resident Engineer shall be responsible for processing, monitoring, coordinating and completing the submittal review process with the Contractor. The RE shall require the Contractor to provide a submittal review schedule within five days of the Notice to Proceed. The RE shall immediately inform the Contractor and the City Contract Administrator verbally and in writing if the submittals are not processed according to the schedule.

The Resident Engineer will be required to note as-built conditions and prepare as-built plans for all improvements that may have deviated from the project improvement plans. Said as-built plans shall be forwarded to the City of Holtville with all final project documentation.

The Resident Engineer is expected to be proactive in the prosecution of his duties and is expected to execute the Scope of Work to keep the project moving forward. This clarification does NOT suggest that any items not specifically mentioned are excluded from the Scope of Work.

Upon project completion of the project, all records are to be compiled in (a) three (3) ring binder(s), prominently labeled on the spine with the title "**PROJECT NAME: Citywide Pavement Improvements Project**" to serve as a record of the project. Photographs of the work site prior to commencement of work, during construction, and after completion of construction are to be included in the record of the project. Additionally, a copy of the record of the project is to be provided in Portable Document Format (PDF) on one (1) USB thumb drive.

In addition to the comprehensive record of the project detailed above, the Consultant is to also provide a detailed summary of the project. The project summary shall include a brief detailing of the dates of bid release, bid opening, dates of issue of Notice to Proceed to Contractor and RE, number of working days and a brief detailing of the project. This project summary is also to be provided in a three (3) ring binder labeled with the same information as the comprehensive record detailed above, as well as in Portable Document Format (PDF) on a USB thumb drive.

It is requested that responders submit a "Not to Exceed" fee based on hours worked to perform the services set forth in the Scope of Work. Provide a clear breakdown of the costs by phase, including staff or by item, by hour. No subcontractors shall be utilized without prior authorization by the City.

The Consultant shall document the results of the work to the satisfaction of the City. Consultant's records shall be maintained for inspection by the City, State, and FHWA for a minimum of (3) years after final payment to the Consultant.

All tracings, plans, specifications, and maps prepared or obtained under the terms of the Agreement with the City shall be delivered to, and become the property of, the City. Basic survey notes, sketches, charts, computations and other data, prepared or obtained under such Agreement, if not required to be provided, shall be made available upon request to the City without restriction or limitation on their use.

The City of Holtville Disadvantaged Business Enterprise (DBE) Program affirms the utilization and participation of qualified disadvantaged business firms in its contracting and procurement activities. The City encourages general and prime contractors to afford competitive subcontracting opportunities to disadvantaged firms, where possible, in their contracting and procurement activities with the City of Holtville.

The construction work is scheduled for ninety-five (95) calendar days. Full time on-site inspection shall occur during each and every day of construction work. For the purposes of preparing this proposal, consultant should assume that ten (10) working days will be required to complete administrative work prior to the start of construction and ten (10) working days of administrative work will be required after construction. It shall be assumed two (2) days of administrative work will be required to attend project audits.

The cost of construction to be completed by the Contractor was estimated to be \$2,714,673.85.

V. RESPONSIBILITIES OF THE CITY

1. The City will provide a designated City Project Administrator to review project specific items throughout the duration of the project.
2. The City will pay an agreed upon amount normally within 30 days after receipt of an invoice(s). Invoice(s) shall be submitted with a detailed accounting of staff hours attributed to specific tasks. Separate invoices shall be submitted for specific project billings. City will retain five percent (5%) of each invoice for the resident engineering and construction inspection services until 10 days after the filing of the Notice of Completion contingent upon all Resident Engineering and Construction Management services being complete.
3. The City will not provide dedicated workplace facilities.
4. The City reserves the right to perform any portion of the Scope of Work by City personnel or other consultants should the City determine it would be in the best interest of the City to do so.

VI. PROPOSAL CONTENT AND INFORMATION

Proposal should be typed, organized and concise, yet comprehensive.

A. General Requirements

1. Project Cover Sheet.
2. Table of Contents.
3. Provide a cover letter.
4. State the interpretation of the Resident Engineering and Construction Management Services to be performed. The Consultant is to demonstrate an understanding of the Scope of Work and Agency requirements regarding this project.
5. Provide the name(s) of the primary and/or alternate individuals authorized to respond to this RFP. Include titles, addresses, license numbers, e-mail and phone number.
6. The Consultant is representing itself as a qualified professional in providing Resident Engineering and Construction Management services. The Consultant is to offer recommendations and comments with respect to services to be performed. It is expected that the Consultant will have some applicable experience in similar projects that will be delineated in the respondent proposals.
7. List any sub-consultants participating in the project. Describe the services to be performed by the sub-consultants. Identify the qualifications and resumes of all sub-consultants that will be utilized. Indicate the DBE or UDBE status of the sub-consultant as applicable.

B. Cost & Fees *TO BE PROVIDED IN A SEPARATE SEALED ENVELOPE*****

1. Provide a clear breakdown of costs by task including designated staff, hourly rate and hours. The costs and fees spreadsheet is to be submitted in a separate sealed envelope. Costs should be organized for full time hourly rates. Such hourly rates should be fully burdened or loaded, including full compensation for all employee taxes, overhead and profit. Billing rates shall include provision for normal office costs, including but not limited to office rental, utilities, and insurance. Telephone, copies, reproduction and transportation are regarded as additional expenses. The consultant shall list a lump sum value for these additional expenses on the fee schedule spreadsheet. A "Not to Exceed" fee breakdown by task of the project based on billable hours is required. Also detail what hourly rates for overtime will be used as needed.
2. Submit itemized hourly fee schedule for additional services beyond the scope of work.
3. The consultant's Costs & Fees must be provided in a separate sealed envelope marked "COST PROPOSAL" within the main RFP submittal package.

VII. ADDITIONAL APPLICABLE DOCUMENTS

1. Plans & Specifications: available upon request from Contract Administrator
2. City of Holtville Quality Assurance Program (QAP)
3. City of Holtville Standard Details and Specifications dated June 13, 2005.
4. Contract Documents

VIII. EVALUATION OF PROPOSALS

The Proposals will be evaluated according to the following criteria and point system.

PROPOSAL EVALUATION CRITERIA

| | |
|---|-------------------|
| 1. Understanding of the work to be done | 20 points |
| 2. Experience with similar kinds of work | 20 points |
| 3. Demonstrated Technical Ability | 20 points |
| 4. Quality of staff for work to be done | 20 points |
| 5. Capability of developing innovative or advanced techniques | 10 points |
| 6. Financial responsibility | 10 points |
| Maximum Total Points | 100 points |

A Committee will review and evaluate the proposals. It is the City’s intention to select the Consultant whose qualifications and understanding of the project are deemed most advantageous to the City in accordance with this Request for Proposals. The Selection Committee's recommendation will be forwarded to the Holtville City Council for final determination.

Clarification desired by a proposer shall be requested in writing or by emailing a minimum of 72 hours prior to the RFP submission date. Oral explanation or instructions shall not be considered binding on behalf of the City. Forward questions to the City of Holtville Contract Administrator at the following address:

Mr. Nicholas D. Wells
City Manager/ Project Administrator
121 West Fifth Street
Holtville, CA 92250
Phone: (760) 356-4574
Email: NWells@Holtville.ca.gov

Any modifications to this solicitation will be issued by the City Project Administrator as a written addendum.

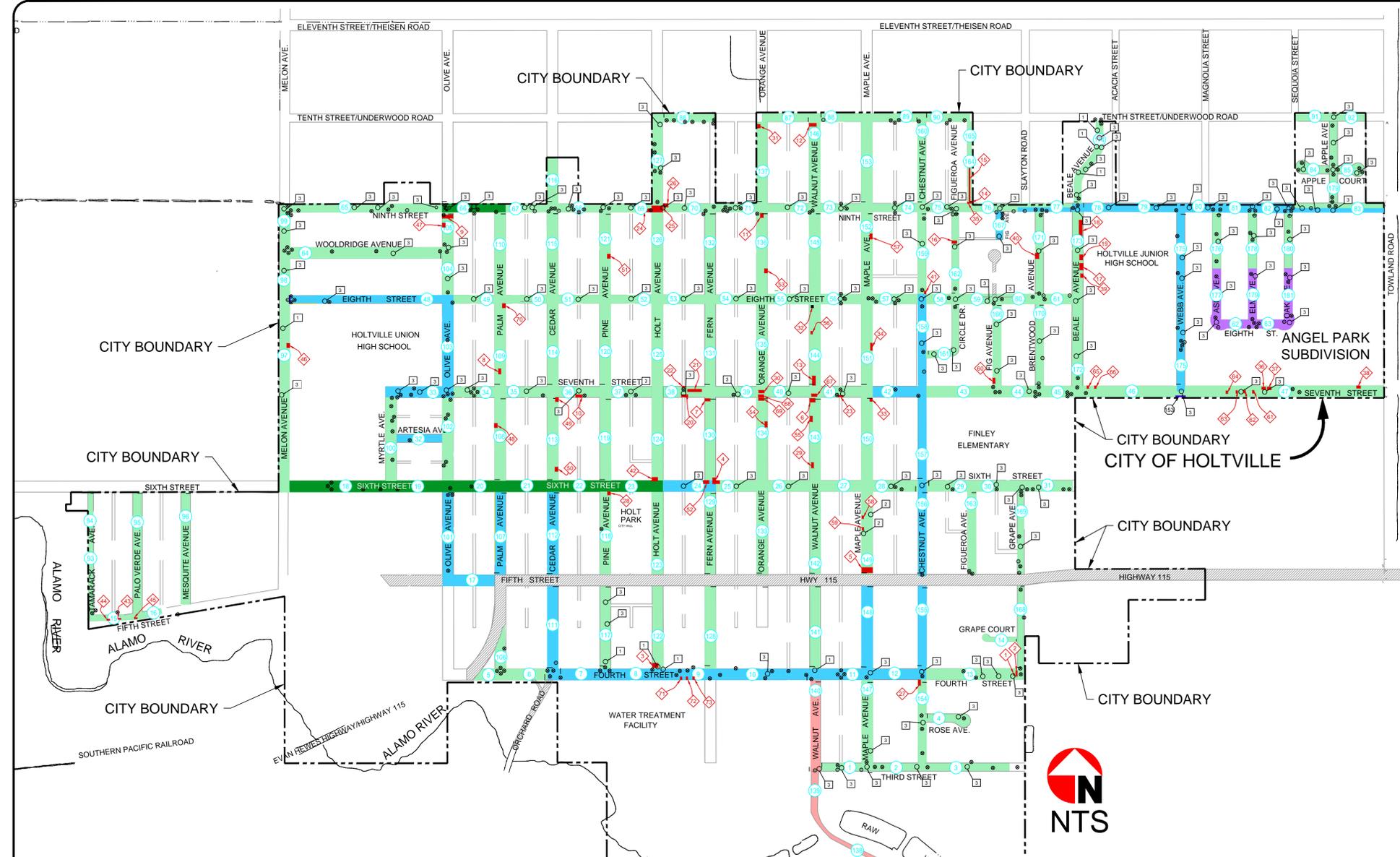
Any sub-consultant participating in this project is to be listed within the contents of this consultant’s response to this proposal. Sub-consultants shall not be allowed to be engaged by the Resident Engineer / Construction Manager after the proposals are submitted to the City of Holtville.

The City reserves the right to reject any and all proposals or to waive any irregularities or informalities submitted in any proposals or in the proposal and selection process. The City also reserves the right to request additional information for clarification. The City Council reserves the right to select any consultant the City deems qualified regardless of the Evaluation Committee's recommendation.

This RFP does not commit the City of Holtville to award a contract or pay any costs associated with the preparation of a Proposal. The City reserves the right to cancel, in part or in its entirety, this solicitation should this be in the best interest of the City to do so.

Attachment A

Street Improvements Map



HOLTVILLE STREET LIST - 2017

HOLTVILLE STREET LIST - 2017 (CONTINUED)

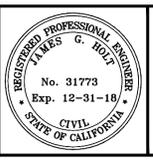
| Street Section No. | Street Name | From | To | Width (FT) | Length (FT) | Pavement Area (SQ. FT.) | SYD |
|--------------------|-------------------|-----------------------------|-----------------------------|------------|-------------|-------------------------|-------|
| 1 | Third Street | Walnut Avenue | Maple Avenue | 40 | 362 | 14,480 | 1,809 |
| 2 | Third Street | Maple Avenue | Chestnut Avenue | 40 | 408 | 16,320 | 1,813 |
| 3 | Third Street | Chestnut Avenue | Grape Avenue | 40 | 658 | 26,320 | 2,924 |
| 4 | Rose Ave | Chestnut Avenue | East Termination Point | 37 | 376 | 13,912 | 1,546 |
| 5 | Fourth Street | Highway 115 | Palm Avenue | 46 | 258 | 11,868 | 1,319 |
| 6 | Fourth Street | Palm Avenue | Cedar Avenue | 46 | 375 | 17,250 | 1,917 |
| 7 | Fourth Street | Cedar Avenue | Pine Avenue | 46 | 380 | 17,480 | 1,942 |
| 8 | Fourth Street | Pine Avenue | Holt Avenue | 46 | 390 | 17,940 | 1,993 |
| 9 | Fourth Street | Holt Avenue | Fern Avenue | 46 | 380 | 15,200 | 1,689 |
| 10 | Fourth Street | Fern Avenue | Walnut Avenue | 40 | 770 | 30,800 | 3,422 |
| 11 | Fourth Street | Walnut Avenue | Maple Avenue | 51 | 380 | 19,380 | 2,153 |
| 12 | Fourth Street | Maple Avenue | Chestnut Avenue | 51 | 390 | 19,890 | 2,210 |
| 13 | Fourth Street | Chestnut Avenue | Grape Avenue | 51 | 710 | 36,210 | 4,022 |
| 14 | Grape Court | Grape Avenue | West Termination Point | 40 | 277 | 11,080 | 1,231 |
| 15 | Fifth Street | Tamarack Avenue | Palo Verde Avenue | 35 | 380 | 13,300 | 1,478 |
| 16 | Fifth Street | Palo Verde Avenue | East Termination Point | 35 | 160 | 5,600 | 622 |
| 17 | Fifth Street | Palm Avenue | Walnut Avenue | 52 | 452 | 23,504 | 2,612 |
| 18 | Sixth Street | Walnut Avenue | Maple Avenue | 50 | 380 | 19,000 | 2,111 |
| 19 | Sixth Street | Maple Avenue | Orange Avenue | 50 | 410 | 20,500 | 2,275 |
| 20 | Sixth Street | Orange Avenue | Palm Avenue | 50 | 380 | 19,000 | 2,111 |
| 21 | Sixth Street | Palm Avenue | Cedar Avenue | 50 | 390 | 19,200 | 2,111 |
| 22 | Sixth Street | Cedar Avenue | Maple Avenue | 50 | 380 | 18,500 | 2,056 |
| 23 | Sixth Street | Maple Avenue | Fern Avenue | 58 | 350 | 20,480 | 2,278 |
| 24 | Sixth Street | Fern Avenue | Holt Avenue | 51 | 380 | 19,380 | 2,153 |
| 25 | Sixth Street | Holt Avenue | Orange Avenue | 51 | 380 | 19,380 | 2,153 |
| 26 | Sixth Street | Orange Avenue | Maple Avenue | 51 | 395 | 20,145 | 2,238 |
| 27 | Sixth Street | Maple Avenue | Chestnut Avenue | 51 | 395 | 20,145 | 2,238 |
| 28 | Sixth Street | Chestnut Avenue | Figuerosa Avenue | 51 | 395 | 20,145 | 2,238 |
| 29 | Sixth Street | Figuerosa Avenue | East Termination Point | 51 | 216 | 9,816 | 1,091 |
| 30 | Sixth Street | Grape Avenue | East Termination Point | 62 | 545 | 33,790 | 3,754 |
| 32 | Artesia Avenue | Myrtle Avenue | Olive Avenue | 40 | 362 | 14,480 | 1,609 |
| 33 | Seventh Street | Myrtle Avenue | Olive Avenue | 64 | 410 | 26,240 | 2,916 |
| 34 | Seventh Street | Olive Avenue | Cedar Avenue | 51 | 380 | 19,380 | 2,153 |
| 35 | Seventh Street | Cedar Avenue | Pine Avenue | 51 | 380 | 19,380 | 2,153 |
| 36 | Seventh Street | Pine Avenue | Holt Avenue | 51 | 380 | 19,380 | 2,153 |
| 37 | Seventh Street | Holt Avenue | Fern Avenue | 51 | 380 | 19,380 | 2,153 |
| 38 | Seventh Street | Fern Avenue | Walnut Avenue | 51 | 380 | 19,380 | 2,153 |
| 39 | Seventh Street | Walnut Avenue | Maple Avenue | 51 | 380 | 19,380 | 2,153 |
| 40 | Seventh Street | Maple Avenue | Chestnut Avenue | 51 | 380 | 19,380 | 2,153 |
| 41 | Seventh Street | Chestnut Avenue | Figuerosa Avenue | 51 | 390 | 19,950 | 2,210 |
| 42 | Seventh Street | Figuerosa Avenue | Brentwood Avenue | 64 | 315 | 20,260 | 2,240 |
| 44 | Seventh Street | Brentwood Avenue | Beale Avenue | 64 | 250 | 16,000 | 1,778 |
| 45 | Seventh Street | Beale Avenue | Webb Avenue | 36 | 796 | 28,656 | 3,184 |
| 46 | Seventh Street | Webb Avenue | East Termination Point | 37 | 150 | 5,400 | 591 |
| 48 | Eighth Street | Melon Avenue | Olive Avenue | 37 | 1206 | 44,622 | 4,958 |
| 49 | Eighth Street | Olive Avenue | Palm Avenue | 37 | 380 | 14,060 | 1,562 |
| 50 | Eighth Street | Palm Avenue | Cedar Avenue | 37 | 380 | 14,060 | 1,562 |
| 51 | Eighth Street | Cedar Avenue | Holt Avenue | 37 | 380 | 14,060 | 1,562 |
| 52 | Eighth Street | Holt Avenue | Fern Avenue | 37 | 380 | 14,060 | 1,562 |
| 53 | Eighth Street | Fern Avenue | Walnut Avenue | 37 | 380 | 14,060 | 1,562 |
| 54 | Eighth Street | Walnut Avenue | Maple Avenue | 37 | 380 | 14,060 | 1,562 |
| 55 | Eighth Street | Maple Avenue | Orange Avenue | 36 | 380 | 13,680 | 1,520 |
| 56 | Eighth Street | Orange Avenue | Walnut Avenue | 36 | 380 | 13,680 | 1,520 |
| 57 | Eighth Street | Walnut Avenue | Chestnut Avenue | 36 | 390 | 14,040 | 1,560 |
| 58 | Eighth Street | Chestnut Avenue | Circle Drive | 36 | 250 | 9,000 | 1,000 |
| 59 | Eighth Street | Circle Drive | Fig Avenue | 36 | 300 | 10,800 | 1,200 |
| 60 | Eighth Street | Fig Avenue | Walnut Avenue | 36 | 315 | 11,340 | 1,250 |
| 61 | Eighth Street | Brentwood Avenue | Beale Avenue | 36 | 216 | 7,776 | 864 |
| 62 | Eighth Street | Ash Avenue | Elm Avenue | 40 | 290 | 11,600 | 1,288 |
| 63 | Eighth Street | Elm Avenue | Oak Avenue | 40 | 290 | 11,600 | 1,288 |
| 64 | Woodridge Avenue | Melon Avenue | Olive Avenue | 52 | 1206 | 62,712 | 6,953 |
| 65 | Ninth Street | Melon Avenue | Olive Avenue | 32 | 1206 | 38,592 | 4,288 |
| 66 | Ninth Street | Olive Avenue | 75 feet West of Palm Avenue | 25 | 280 | 7,000 | 778 |
| 67 | Ninth Street | 75 feet West of Palm Avenue | Cedar Avenue | 46 | 480 | 22,080 | 2,453 |
| 68 | Ninth Street | Cedar Avenue | Pine Avenue | 46 | 380 | 17,480 | 1,942 |
| 69 | Ninth Street | Pine Avenue | Holt Avenue | 46 | 380 | 17,480 | 1,942 |
| 70 | Ninth Street | Holt Avenue | Fern Avenue | 46 | 380 | 17,480 | 1,942 |
| 71 | Ninth Street | Fern Avenue | Walnut Avenue | 46 | 380 | 17,480 | 1,942 |
| 72 | Ninth Street | Walnut Avenue | Maple Avenue | 46 | 380 | 17,480 | 1,942 |
| 73 | Ninth Street | Maple Avenue | Chestnut Avenue | 46 | 390 | 17,940 | 1,993 |
| 74 | Ninth Street | Chestnut Avenue | Figuerosa Avenue | 46 | 340 | 15,640 | 1,738 |
| 75 | Ninth Street | Figuerosa Avenue | Slayton Road | 46 | 380 | 17,480 | 1,942 |
| 76 | Ninth Street | Slayton Road | Beale Avenue | 23 | 406 | 9,338 | 1,038 |
| 77 | Ninth Street | Beale Avenue | 428' East of Beale Avenue | 32 | 428 | 13,696 | 1,522 |
| 78 | Ninth Street | 428' East of Beale Avenue | Webb Avenue | 32 | 428 | 13,696 | 1,522 |
| 79 | Ninth Street | Webb Avenue | 428' East of Beale Avenue | 32 | 310 | 9,920 | 1,102 |
| 80 | Ninth Street | Webb Avenue | Ash Avenue | 32 | 320 | 10,240 | 1,138 |
| 81 | Ninth Street | Ash Avenue | Elm Avenue | 32 | 260 | 8,320 | 924 |
| 82 | Ninth Street | Elm Avenue | Oak Avenue | 32 | 260 | 8,320 | 924 |
| 83 | Ninth Street | Oak Avenue | Towland Road | 35 | 720 | 25,200 | 2,800 |
| 84 | Apple Court | Apple Avenue | West Cuddezac | 37 | 280 | 10,360 | 1,151 |
| 85 | Apple Court | Apple Avenue | East Cuddezac | 37 | 250 | 9,250 | 1,028 |
| 86 | Tenth Street | Holt Avenue | Fern Avenue | 37 | 380 | 14,060 | 1,562 |
| 87 | Tenth Street | Orange Avenue | Walnut Avenue | 31 | 380 | 11,780 | 1,309 |
| 88 | Tenth Street | Walnut Avenue | Maple Avenue | 31 | 380 | 11,780 | 1,309 |
| 89 | Tenth Street | Maple Avenue | Chestnut Avenue | 31 | 390 | 12,090 | 1,343 |
| 90 | Tenth Street | Chestnut Avenue | Figuerosa Avenue | 31 | 340 | 10,540 | 1,171 |
| 91 | Tenth Street | Figuerosa Avenue | Apple Avenue | 28 | 282 | 7,896 | 877 |
| 92 | Tenth Street | Apple Avenue | A Point West of Towland Rd | 28 | 330 | 9,240 | 1,027 |
| 93 | Tamarack Avenue | Fifth Street | Point 165' S. of Zenos Rd | 31 | 165 | 5,115 | 568 |
| 94 | Tamarack Avenue | Point 165' S. of Zenos Rd | Zenos Road | 40 | 770 | 30,800 | 3,422 |
| 95 | Palo Verde Avenue | Fifth Street | Zenos Road | 44 | 915 | 40,260 | 4,473 |
| 96 | Messquite Avenue | Fifth Street | Zenos Road | 40 | 860 | 34,400 | 3,822 |
| 97 | Melon Avenue | Sixth Street | Woodridge Avenue | 26 | 1340 | 34,840 | 3,871 |
| 98 | Melon Avenue | Woodridge Avenue | Ninth Street | 26 | 330 | 8,580 | 953 |
| 99 | Melon Avenue | Woodridge Avenue | Ninth Street | 26 | 330 | 8,580 | 953 |
| 100 | Myrtle Avenue | Sixth Street | Sixth Street | 54 | 630 | 34,020 | 3,780 |
| 101 | Olive Avenue | Fifth Street | Sixth Street | 52 | 680 | 35,360 | 3,929 |
| 102 | Olive Avenue | Sixth Street | Seventh Street | 52 | 680 | 35,360 | 3,929 |
| 103 | Olive Avenue | Seventh Street | Woodridge Avenue | 52 | 680 | 35,360 | 3,929 |
| 104 | Olive Avenue | Woodridge Avenue | Ninth Street | 52 | 330 | 17,160 | 1,907 |
| 105 | Olive Avenue | Woodridge Avenue | Ninth Street | 52 | 330 | 17,160 | 1,907 |
| 106 | Palm Avenue | Fourth Street | Highway 115 | 36 | 320 | 11,520 | 1,280 |
| 107 | Palm Avenue | Fifth Street | Sixth Street | 52 | 620 | 32,240 | 3,582 |
| 108 | Palm Avenue | Sixth Street | Seventh Street | 52 | 620 | 32,240 | 3,582 |
| 109 | Palm Avenue | Seventh Street | Eighth Street | 52 | 630 | 32,760 | 3,640 |
| 110 | Palm Avenue | Eighth Street | Ninth Street | 52 | 620 | 32,240 | 3,582 |
| 111 | Cedar Avenue | Fourth Street | Fifth Street | 52 | 630 | 32,760 | 3,640 |
| 112 | Cedar Avenue | Fifth Street | Sixth Street | 52 | 620 | 32,240 | 3,582 |
| 113 | Cedar Avenue | Sixth Street | Seventh Street | 52 | 620 | 32,240 | 3,582 |
| 114 | Cedar Avenue | Seventh Street | Eighth Street | 52 | 630 | 32,760 | 3,640 |
| 115 | Cedar Avenue | Eighth Street | Ninth Street | 52 | 620 | 32,240 | 3,582 |
| 116 | Cedar Avenue | Ninth Street | North Termination Point | 30 | 128 | 3,840 | 427 |
| 117 | Fifth Street | Fourth Street | Fifth Street | 52 | 630 | 32,760 | 3,640 |
| 118 | Pine Avenue | Fifth Street | Sixth Street | 72 | 620 | 44,640 | 4,960 |
| 119 | Pine Avenue | Sixth Street | Seventh Street | 52 | 620 | 32,240 | 3,582 |
| 120 | Pine Avenue | Seventh Street | Eighth Street | 52 | 630 | 32,760 | 3,640 |
| 121 | Pine Avenue | Eighth Street | Ninth Street | 53 | 620 | 32,860 | 3,651 |

LEGEND

| ITEM NO. | SYMBOL | DESCRIPTION |
|----------|----------------|--|
| 1 | [Green Line] | STREET SECTIONS TO BE IMPROVED BY CRACK SEALING AND TYPE 2 SLURRY SEALCOAT. SEE DETAIL B ON SHEET 3. SEE TABLE A ON SHEET 3 FOR STREET DIMENSIONS AND QUANTITIES. |
| 2 | [Red Line] | STREET SECTION WAS REHABILITATED WITH AN ASPHALT OVERLAY AS A PART OF A FEDERAL AID PROJECT COMPLETED IN 2016. THIS STREET SECTION IS NOT INCLUDED IN THIS PROJECT. |
| 3 | [Blue Line] | STREET SECTIONS TO BE IMPROVED BY CRACK SEALING, ASPHALT RUBBER AGGREGATE MEMBRANE (ARAM) AND TYPE 2 SLURRY SEALCOAT. SEE DETAIL A ON SHEET 3. SEE TABLE B ON SHEET 3 FOR STREET DIMENSIONS AND QUANTITIES. SEE DETAIL E ON PLAN SHEET 4 FOR ARAM APPLICATION ON TYPICAL STREET SECTION. |
| 4 | [Purple Line] | REMOVE AND DISPOSE OF EXISTING A.C. PAVEMENT. ADD AND COMPACT CLASS 2 BASE TO CREATE A 2 PERCENT CROSS-SLOPE FROM CENTERLINE OF STREET TO GUTTER EDGE. INSTALL 3 INCHES OF A.C. PAVEMENT. RAISE MANHOLE FRAMES AND COVERS AND WATER VALVE RISERS AND COVERS TO FINISH PAVEMENT GRADE. SEE DETAIL D ON SHEET 4. |
| 5 | [Green Line] | STREET SECTIONS WERE REHABILITATED WITH A 1 1/2" ARHM OVERLAY - AS PART OF A FEDERAL AID PROJECT APPLIED FOR FY 2016/2017 - AND COMPLETED IN OCTOBER 2017. THIS STREET SECTION IS NOT INCLUDED IN THIS PROJECT. |
| 6 | [Red Diamond] | PAVEMENT FAILURE AREAS. SEE DETAIL C ON SHEET 4. SEE TABLE C ON SHEET 4. |
| 7 | (24) | STREET SECTION NUMBER |
| 8 | [Hatched Area] | STREET SECTIONS NOT MAINTAINED BY THE CITY OF HOLTVILLE - NOT A PART OF THIS PROJECT |
| 9 | [Dashed Line] | CITY BOUNDARY |
| 10 | ○ 1 | EXISTING STORM DRAIN MANHOLE |
| 11 | ○ 2 | EXISTING MONUMENT WELL |
| 12 | ○ 3 | EXISTING SANITARY SEWER MANHOLE |
| 13 | ⊗ | EXISTING WATER VALVE |
| 14 | ⊙ | EXISTING GAS VALVE |

| | | | | | |
|--|----------|------|-----------------|------------------|---|
| No. REVISION | APPROVED | DATE | DESIGNED BY: SG | DRAWN BY: JS, DB | PREPARED UNDER THE DIRECT SUPERVISION OF: |
| | | | SCALE: | CHECKED BY: JGH | |
| | | | BENCH MARK No. | ELEV.: | |
| UNAUTHORIZED CHANGES AND USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to these plans must be in writing and must be approved by the preparer of these plans. | | | | | |

| | |
|--|--|
| 1601 N. IMPERIAL AVE. EL CENTRO, CA 92243 PHONE: (760) 337-3883 FAX: (760) 337-5997 | 201 E. HOBSONWAY BLTYHE, CA 92225 PHONE: (760) 922-4658 FAX: (760) 922-4660 |
| JAMES G. "JACK" HOLT | R.C.E. No. |
| 10/31/2017 DATE | 12-31-18 REG. EXP. |



The Holt Group, Inc.
ENGINEERING * SURVEYING * CONSTRUCTION MANAGEMENT * PLANNING

| | |
|------------------|---|
| PROJECT TITLE : | CITY OF HOLTVILLE - CITY-WIDE STREET IMPROVEMENT PROJECT FY-2017/2018 |
| PROJECT NUMBER : | 116.465 |
| SHEET CONTENT : | STREET IMPROVEMENTS MAP |

| | |
|--------------|---|
| SHEET NO. | 2 |
| OF 26 SHEETS | |

DWG FILE: Q:\ET\Centrol\116.465\Improvement Plans\116.465_STREET IMPROVEMENT 2017_SHEET 2_STREET MAINTENANCE MAP.dwg

Attachment B

Engineer's Opinion of Probable Cost



The
Holt
Group

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www.theholtgroup.net

Municipal Design • Infrastructure Engineering • Construction Management • Land Surveying

**PROJECT: CITY OF HOLTVILLE
CITY WIDE STREET IMPROVEMENTS PROJECT - 2017/2018**

THG PROJECT NO. 116.465

DATE: OCTOBER 31, 2017

**ENGINEER'S OPINION OF
PROBABLE COST**

| <u>Item No</u> | <u>Item</u> | <u>Unit</u> | <u>Unit Cost</u> | <u>Quantity</u> | <u>Total</u> |
|-----------------------|--|--------------------|-------------------------|------------------------|---------------------|
| 1 | Mobilization of Equipment and Material, Permits, Insurance, Bonds, Taxes, Portable Restroom Facilities, Freight, Submittal Documents, potable drinking water, safety requirements, meetings, utility identification and project signs, complete in its entirety in strict conformance with the contract documents. | LUMP SUM | ----- | ----- | \$216,000.00 |

| <u>Item No</u> | <u>Item</u> | <u>Unit</u> | <u>Unit Cost</u> | <u>Quantity</u> | <u>Total</u> |
|----------------|---|-------------|------------------|-----------------|--------------|
| 2 | Furnish all labor, material, transportation, equipment and services for the placement of Crack Sealant in the cracks along the street sections listed and illustrated on the Improvement Plans. Include notification of Residents, Businesses, Schools, Government Agencies and Institutions at least 24 hours prior to crack sealing a given street section. The notification requirement is incidental to this item. Include the initial sweeping of the streets prior to crack sealing as an incidental item. Also, include the sweeping of the street area after crack sealing has been accomplished each work day as an incidental item. Traffic Control is included as incidental to this item. The placement of crack sealant shall be accomplished in strict conformance with the contract documents. | LBS | \$4.40 | 103,362 | \$454,792.80 |
| 3 | Install Asphalt Rubber Aggregate Membrane on streets as illustrated on the improvement plans. Street sweeping before the ARAM installation is incidental to this item. Notification of Residents, Businesses, Schools, Government Agencies, Post Office, Agencies and Institutions at least 24 hours prior to ARAM application is incidental to this item. Traffic Control is incidental to this item. ARAM placement shall be compensated per the square yard of ARAM material placed. | SYD | \$7.00 | 75,348 | \$527,436.00 |

| <u>Item No</u> | <u>Item</u> | <u>Unit</u> | <u>Unit Cost</u> | <u>Quantity</u> | <u>Total</u> |
|----------------|---|-------------|------------------|-----------------|--------------|
| 4 | Furnish all labor, material, transportation, equipment and services for the placement of a slurry seal coat on the existing A.C. pavement surface along the street sections illustrated and listed on the Improvement Plans. Street sweeping, clean up, protection of utility covers and traffic control are incidental and to be included within this item. Notification of Residents, Businesses, Schools, Government Agencies, Post Office, Agencies and Institutions at least 24 hours prior to slurry seal coat application is incidental to this item. The slurry seal coat shall be compensated by this item per dry ton of aggregate utilized. The calculated weight of the dry aggregate to be placed per square yard was based upon 13.3 pounds per square yard or 19 pounds per square yard as illustrated on the plans. The dry ton aggregate price shall include the incidental items noted by this item and the Specification requirements. It shall also include the remaining constituents in addition to the dry aggregate for the formulation of a modified slurry asphalt emulsion including but not limited to set control additives, coloring additives, styrene butadiene latex, water and all other required components. Slurry Testing shall be incidental to the slurry seal coat placement. | TONS | \$300.00 | 3,162 | \$948,600.00 |
| 5 | Grind A.C. pavement edges for a depth of 4 inches at A.C. Pavement Failure Areas. Remove and dispose of A.C. pavement debris. | CYD | \$50.00 | 148 | \$7,400.00 |

| <u>Item No</u> | <u>Item</u> | <u>Unit</u> | <u>Unit Cost</u> | <u>Quantity</u> | <u>Total</u> |
|----------------|--|-------------|------------------|-----------------|--------------|
| 6 | Install granular sand material or class II base at the base of the demolition area to maintain a pavement depth of 4 inches from pavement surface to bottom of pavement failure area. Compact bottom of A.C. pavement failure area with a plate compactor to the satisfaction of the construction manager. Compaction tests on the bottom of the pavement failure areas will not be required. Place SS-1H along the ground pavement edges. Install 4 inches of A.C. pavement. Compact and roll A.C. pavement. The placement of the SS-1H shall be incidental to the cost of the A.C. pavement. The installation of the granular sand or Class 2 Base is to be incidental to the cost of the A.C. pavement. | TONS | \$200.00 | 303 | \$60,600.00 |
| 7 | Complete 15 A.C. compaction tests for the paved A.C. pavement failure areas during a two (2) day period. The location of the A.C. compaction tests shall be determined by the construction manager. | LUMP SUM | ----- | ----- | \$4,200.00 |
| 8 | Remove and dispose of A.C. pavement along Ash, Elm and Oak Avenues and Eighth Street at the Angel Park Subdivision. See Plan Sheet 2 | CYD | \$30.00 | 612 | \$18,360.00 |
| 9 | Install Class 2 Base at the Ash, Elm and Oak Avenues and Eighth Street at the Angel Park Subdivision after the removal of the existing A.C. pavement. Install the Class 2 Base to create a 2 percent cross-slope from street centerline to the P.C.C. gutter edge. See Detail D on the plans. | TONS | \$40.00 | 938 | \$37,520.00 |
| 10 | Obtain twelve (12) compaction tests on the Class 2 Base at Ash, Elm and Oak Avenues and Eighth Street at the Angel Park Subdivision after the installation and compaction of the Class 2 Base. | LUMP SUM | ----- | ----- | \$3,800.00 |

| <u>Item No</u> | <u>Item</u> | <u>Unit</u> | <u>Unit Cost</u> | <u>Quantity</u> | <u>Total</u> |
|----------------|---|-------------|------------------|-----------------|--------------|
| 11 | Install 3 inches of A.C. pavement at Ash, Elm and Oak Avenues and at Eighth Street at the Angel Park Subdivision after the placement of Class 2 Base and after successful compaction tests have been obtained. See Detail D on the plans. | TONS | \$110.00 | 1238 | \$136,180.00 |
| 12 | Lower and Raise Manhole Rim and Covers to finish pavement grade per Holtville Standard Detail SS109. | Each | \$550.00 | 5 | \$2,750.00 |
| 13 | Lower and Raise water valve covers and risers to finish pavement surface per Holtville Standard Detail W106. | Each | \$450.00 | 13 | \$5,850.00 |
| 14 | Paint 1-foot wide white "STOP" Bar on the A.C. pavement or concrete surfaces in accordance with the Contract Documents. | L.F. | \$1.60 | 1980 | \$3,168.00 |
| 15 | Paint white "STOP" Legend on the A.C. pavement surface per Caltrans Standard Plan A24D in accordance with the Contract Documents. | Each | \$50.00 | 133 | \$6,650.00 |
| 16 | Install Yellow Reflective Raised Pavement Marker (Caltrans Standard Plans Type "D") in accordance with the Contract Documents. | Each | \$7.00 | 1,292 | \$9,044.00 |
| 17 | Install blue reflective raised pavement markers – two (2) reflective faces per City of Holtville Standard Detail W107. | Each | \$12.00 | 115 | \$1,380.00 |
| 18 | Install non-reflective Yellow Type AY Ceramic Markers per Caltrans Standard Plan A20A. | Each | \$5.00 | 486 | \$2,430.00 |

| <u>Item No</u> | <u>Item</u> | <u>Unit</u> | <u>Unit Cost</u> | <u>Quantity</u> | <u>Total</u> |
|----------------|--|-------------|------------------|-----------------|--------------|
| 19 | Paint face and top of curb (no parking curb) with two (2) applications of red paint. | L.F. | \$2.00 | 5,197 | \$10,394.00 |
| 20 | Paint 1-foot wide white crosswalk and limit line per Caltrans Standard Plan A24E. | L.F. | \$1.60 | 5,052 | \$8,083.20 |
| 21 | Paint 1-foot wide yellow stripe per Caltrans Standard Plan A24E. | L.F. | \$1.60 | 3,147 | \$5,035.20 |
| 22 | Paint "XING" Legend per Caltrans Standard Plan A24D. | Each | \$50.00 | 13 | \$650.00 |
| 23 | Paint "SCHOOL" Legend per Caltrans Standard Plan A24D. | Each | \$60.00 | 13 | \$780.00 |
| 24 | Paint "SLOW" Legend per Caltrans Standard Plan A24D. | Each | \$50.00 | 13 | \$650.00 |
| 25 | Paint "AHEAD" Legend per Caltrans Standard Plan A24D. | Each | \$60.00 | 1 | \$60.00 |
| 26 | Paint 4 inch wide white stripe on A.C. pavement surfaces for parking spaces & other pavement marking purposes. | L.F. | \$0.55 | 13,104 | \$7,207.20 |
| 27 | Install Type G one way clear retro -reflective white raised pavement markers per Caltrans Standard Plan A20A. | Each | \$7.00 | 2,530 | \$17,710.00 |
| 28 | Paint 4 inch wide yellow stripe on the A.C. pavement surfaces for centerline striping and other purposes. | L.F. | \$0.55 | 15,088 | \$8,298.40 |
| 29 | Paint face and top of curb (loading and unloading zone) with two (2) applications of yellow paint | L.F. | \$2.00 | 487 | \$974.00 |
| 30 | Install two way reflective white raised pavement markers | Each | \$7.00 | 480 | \$3,360.00 |
| 31 | Paint face and top of curb (handicap zone) with two (2) applications of blue paint. | L.F. | \$2.00 | 322 | \$644.00 |

| <u>Item No</u> | <u>Item</u> | <u>Unit</u> | <u>Unit Cost</u> | <u>Quantity</u> | <u>Total</u> |
|---|---|-------------|------------------|-----------------|-----------------------|
| 32 | Paint 4 inch wide blue stripe on A.C. pavement surfaces for Handicap Parking Spaces | L.F | \$0.55 | 384 | \$211.20 |
| 33 | Paint Handicap Symbol with Box per Caltrans Standard Plan A24C. | Each | \$200.00 | 8 | \$1,600.00 |
| 34 | Paint White Type IV (L) Arrow per Caltrans Standard Plan A24A. | Each | \$150.00 | 4 | \$600.00 |
| 35 | Paint White Type VII (L) Arrow per Caltrans Standard Plan A24A. | Each | \$150.00 | 3 | \$450.00 |
| 36 | Paint White Type I Arrow per Caltrans Standard Plan A24A. | Each | \$150.00 | 1 | \$150.00 |
| 37 | Install Channelizing Chevron at Ninth Street and Towland as illustrated on the Improvement Plans. | Each | \$250.00 | 1 | \$250.00 |
| 38 | Paint "NO PARKING" Legend per Caltrans Standard Plan A24E. | EACH | \$50.00 | 2 | \$100.00 |
| 39 | Paint 4 inch wide red stripe on A.C. pavement surfaces for no parking zones. | L.F. | \$0.55 | 398 | \$218.90 |
| TOTAL ENGINEERS OPINION OF PROBABLE COST | | | | | \$2,513,586.90 |
| CONTINGENCY 8% | | | | | \$201,086.95 |
| | | | | | \$2,714,673.85 |