

EXHIBIT A SCOPE OF WORK BASIC SERVICES TO BE PROVIDED BY THE ENGINEER

CR 7200 (West 98th Street)
From Alcove Avenue to US Hwy 62/82

GENERAL DESCRIPTION

This scope of work includes survey, geotechnical, utility, and engineering services for the two-thirds of a mile of CR 7200 (West 98th Street) between Alcove Avenue and US Highway 62/82. The project will upgrade the unpaved caliche road to a three-lane paved road with associated drainage facilities. Following is the detailed scope of work:

SCOPE OF ENGINEERING SERVICES

PHASE 1 - PROJECT MANAGEMENT AND COORDINATION

1. Preliminary Conference with County

Kickoff Meeting: Within ten (10) days of award of contract, the ENGINEER will attend a kickoff meeting with the COUNTY to confirm design criteria and goals. The ENGINEER will prepare a meeting agenda as well as minutes of the meeting. A design criteria chart will be provided with the minutes. The ENGINEER will prepare a Design Summary Report (DSR) as part of this meeting.

2. Coordination with Outside Agencies

The ENGINEER will coordinate with outside agencies necessary for the successful completion of the Project. Agencies include but are not limited to City of Wolfforth, City of Lubbock, and TxDOT. For this scope the ENGINEER assumes a total of 5 onsite meetings.

3. Franchise Utility Coordination

The ENGINEER shall provide utility coordination services. These services include meeting and contact with all utilities on the project, initial project notifications, preparation of existing utility layouts, preparation of contact lists, reviewing conflicts between the utilities and the proposed project, creating a utility tracking report, review of all of the proposed utility adjustments, and recommendations for the proposed locations of the utility adjustments.

A. Utility Layout – The ENGINEER shall prepare and maintain a utility layout. This layout shall include all existing utilities which are to remain in place, those to be abandoned or removed, and those to be adjusted. This layout will be utilized to monitor the necessity of relocation and evaluate alternatives and will serve as the utility base file for the design. The ENGINEER will utilize the layout of existing utilities and determine the following:

1. Facilities in conflict with the proposed project that are to be relocated and facilities to be abandoned in place or removed (conflict analysis).
2. Facilities to remain in service and in place.

B. Group & Individual Meetings – The ENGINEER will schedule group and individual meetings with utility companies as required facilitating utility conflict identification and resolution (up to 5 group meetings and 10 individual meetings).

4. Regular Status Reports

The ENGINEER will submit invoices as the work progresses but not more frequently than monthly. Each invoice will be accompanied by a brief update of work completed for the period covered and methodology used to calculate the percentage of the contract invoiced. Included in the monthly report will be a list of tasks anticipated for the upcoming month, and critical issues.

The ENGINEER will conduct bi-weekly in-person meetings with the County to update status and coordinate efforts. This scope assumes bi-weekly status meetings and monthly progress reports for 24 months.

The ENGINEER will prepare project schedule indicating tasks, critical dates, milestones, deliverables and review requirements. The ENGINEER shall update the schedule as necessary through the project.

5. Design Coordination Meetings

The ENGINEER shall attend a plans-in-hand review meeting to discuss comments and the resolution to said comments after each milestone submittal. For this scope the ENGINEER assumes a meeting will be held after the 30%, 60%, 90% milestones for a total of three (3) in-person meetings.

6. Quality Assurance and Quality Control (QA/QC)

The ENGINEER will prepare, implement, and document a formal QA/QC plan.

PHASE 2 - FIELD DATA COLLECTION

1. Right of Entry

Prior to obtaining any field data the ENGINEER shall prepare and obtain up to twenty-five (25) right of entries for the project based upon the anticipated property impacts and collection needs.

2. Design Survey

A. Survey Data

1. SURVEYOR will develop an existing boundary survey and existing topographic data within the limits of this project to prepare the preliminary roadway design.

B. Data Collection and Property Research

1. SURVEYOR will collect available data to determine the boundary locations and owner information for all adjacent properties within the project limits.

C. Design Survey

1. The limits of the survey along CR 7200 will be from 100-feet east of Alcove Avenue to the northbound frontage road of US 62/82. The survey will include the existing right-of-way width of 55' as well as the observed prescriptive right-of-way approximately denoted by existing power poles. Where subdivisions and structures are encountered adjacent to CR 7200, data will be collected a maximum of 20-feet beyond the ROW.
2. The following areas shall also be surveyed:
 - a) Alcove Avenue – 100-feet north and south of CR 7200 centerline.
 - b) Existing drainage easements north of CR 7200, for a length of approximately 800-feet.

3. Survey control shall be established such that all points of construction shall be within approximately 500 feet of a benchmark. Benchmarks should not be subject to loss during construction. Fire hydrants and similar appurtenances are not to be used for benchmarks. The surveyor shall establish temporary benchmarks throughout the length of the project. Establish horizontal state plane coordinates (NAD 83) using GPS. Establish vertical control coordinates on NAVD 88.
 4. Perform a field survey to identify and locate existing topographic elements within the roadway corridor including, but not limited to the following:
 - a) Evidence of property boundary locations adjacent to the corridor.
 - b) Existing pavement, curbs, sidewalks, barrier free ramps, etc.
 - c) Roadway and lane striping along CR 7200 and adjacent arterial roadways
 - d) Driveways (including material)
 - e) Alleys (including material)
 - f) Existing culvert sizes and invert elevations, including cross sections approaching culvert crossings and headwalls/wingwalls
 - g) Existing driveways and swales
 - h) Visible utilities including: manholes, vaults, water valves, water meters, telephone poles, power poles, utility markers, water well features, other public utilities, and franchise utilities
 - i) Traffic signal poles, cabinets, and other signal equipment
 - j) Signs (excluding temporary signs)
 - k) Trees, larger than 6" caliper
 - l) Buildings and permanent structures
 - m) Retaining walls
 - n) Fence/Wall limits and material types (excluding temporary fences)
 - o) Other applicable physical features that could impact design
 5. Prepare a final topographic drawing in digital format (including contours and break lines) showing the features located in the field as well as right-of-way strip map information, an ASCII coordinate file of the points located in the field, and a hard copy of the coordinates and feature descriptions.
 6. Collect locations of Subsurface Utility Engineering (SUE) markings
- D. Provide Existing ROW Base Map
1. The existing right of way base map will be incorporated into the construction documents, and will include the following information:
 - a) Parcels and easements with current recording information
 - b) Current property owner

- c) Existing platted easements and easements available in the public record including easements provided by utility companies.
- 2. The GIS shape file with existing and proposed ROW line work and relevant information will be submitted to the COUNTY.

E. Right-of-way Documents

- 1. Prepare right-of-way and permanent easement instruments (up to 10 parcels anticipated) for the project. Individual parcel exhibits shall be on 8 ½"x11" paper, shall be sealed, dated, and signed by a registered professional land surveyor and shall contain the following:
 - a) Parcel number
 - b) Area required
 - c) Legal description
 - d) Current owner
 - e) Easement locatable in public record
 - f) All physical features
 - g) Metes and bounds description of parcel to be acquired. Each type of easement shall be described separately.

3. Subsurface Utility Engineering

The ENGINEER/CONTRACTOR will perform SUE in accordance with ASCE CI/ASCE 38-02 "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data." This standard defines the following Quality Levels:

Quality Level-A: Precise horizontal and vertical location of utilities obtained by the actual exposure (or verification of previously exposed and surveyed utilities) and subsequent measurement of subsurface utilities, usually at a specific point. Minimally intrusive excavation equipment is typically used to minimize the potential for utility damage. A precise horizontal and vertical location, as well as other utility attributes, is shown on plan documents.

Quality Level-B: Information obtained through the application of appropriate surface geophysical methods to determine the existence and approximate horizontal position of subsurface utilities. Quality Level-B data should be reproducible by surface geophysics at any point of their depiction. This information is surveyed to applicable tolerances defined by the project and reduced onto plan documents.

Quality Level-C: Information obtained by surveying and plotting visible above-ground utility features and by using professional judgment in correlating this information to Quality Level-D information.

Quality Level-D: Information derived from existing records or oral recollections.

A. Quality Level-A Utility Test Holes (Vacuum Excavation):

- 1. Up to FIVE (5) test holes will be performed on various subsurface utilities at locations specified by the Client. ENGINEER will cut up to a 12-in. square test hole, non-destructively excavate down to utility, record the depth to top of utility, backfill & compact the hole, and restore the surface to its original condition. An iron rod with cap or "x-cut" will be set to mark the approximate centerline of the utility.

2. The ENGINEER will make a good faith effort to locate all utilities but shall be compensated for work performed even if the utility is not located.
 3. This Scope of Services includes all test holes being performed under one (1) mobilization.
- B. Quality Level-B Utility Designating:
1. ENGINEER will designate tonable subsurface utilities and note electronic depths using geophysical prospecting equipment and mark the locations with paint and/or pin flags.
 2. We anticipate designating approximately 18,000 LF of buried communication, electric, natural gas, water, sanitary sewer.
 3. Because of limited record information and the possibility of non-tonable utilities, ENGINEER cannot guarantee that all utilities will be found and marked on the project.
- C. Quality Level-C Surveying:
1. Quality Level-B Utility Designation paint markings, pin flags, and above ground utility appurtenances as well the iron rod with cap or "x-cut" for Quality Level-A Test Holes will be surveyed and tied utilizing project survey control provided by Lubbock County.
- D. Quality Level-D Records Research:
1. Available Records will be provided to ENGINEER by Lubbock County. The ENGINEER will perform additional utility record research as needed to successfully complete the project.
 2. Because there are situations where the utility does not have a metallic composition, a metallic tracer line attached, or access to insert a tracer line, the approximate location of the utility may be determined using utility records and direct correspondence with the utility owner/representative. In these areas, the information will be considered Quality Level-D, depicted according to utility record information only.
- E. SUE Field Manager / Professional Engineer:
1. A SUE Field Manager will be on-site for a portion of this project for field crew supervision, field quality control, and coordination with on-site personnel. A Professional Engineer will be responsible for QA/QC, management of the contract, coordination with the project team and signing the final deliverables if required.
- F. SUE Deliverables / CADD:
1. Quality Level-B 2D Utility Designation data will be incorporated into the design sheets depicting the findings of the investigation. Deliverables for the Quality Level-A Test Hole excavations will be an 8.5-in. x 11-in. Test Hole Data Form for each Test Hole performed indicating depth, size, location, and other notable characteristics of the utility. Electronic files will be provided in MicroStation and/or AutoCAD format along with PDFs and photos.
- G. Permitting:
1. Street Cut permits will be coordinated with Lubbock County and City of Wolfforth as required.
- H. Work Zone Traffic Control:

1. The ENGINEER will provide standard temporary work zone traffic control consisting of cones and free-standing signage for this project. This Scope of Services does not include lane closure(s), flag person(s), changeable message board(s), arrow board(s) and/or engineered traffic control plans.
2. If an engineered traffic control plan is required for permit approval or if unique traffic control conditions exist, the ENGINEER will notify Lubbock County and submit a supplemental agreement for authorization prior to proceeding with additional work.

I. Hotels/Per Diem

1. Per diem/meals will be reimbursed at \$68.00 per person per day. Hotel lodging will be invoiced at cost plus associated taxes. The \$110.00, per US General Services Administration current rates, and \$45.00 rate are used for estimating purposes only.

4. Geotechnical Investigation

The ENGINEER will provide the necessary geotechnical study for the Project. The study will explore subsurface soil conditions at the site and provide recommendations for pavement design for the Project. The investigation results will be documented in a report containing:

- A. Field Work Summary – Plan of five (5) continuous borings advanced to a depth of 15 feet with associated boring logs, and ground water recordings.
- B. Laboratory testing including:
 1. Moisture content
 2. Soil classification according to USCS
 3. Atterberg limits
 4. California Bearing Ratio (CBR)
- C. General soil and discussion of the site geology
- D. Evaluation of the swell characteristics of the soils
- E. Design recommendations for
 1. Earthwork
 2. Pavement construction recommendations based on provided or assumed traffic data

The ENGINEER will provide One (1) electronic copy of the geotechnical report to the COUNTY.

PHASE 3 - DESIGN

1. Schematic Design (30%)

- A. Schematic Drainage Analysis
 1. Drainage Analysis
 - a) Data acquisition
 - (1) Previous studies and hydraulic models including FEMA data, master drainage plans, and development drainage analysis as provided by Lubbock County, City of Lubbock and City of Wolfforth.

(2) Aerial imagery and latest available LiDAR elevation data.

(3) Existing drainage facilities record drawings if available.

2. Existing conditions analysis

a) Develop existing conditions hydrology

b) Develop existing hydraulic cross-sections and existing drainage improvement data for modeling

c) Model existing conditions in Stormwise (formerly ICPR4) software

d) Identify existing points of drainage discharge from the roadway corridor to adjacent properties, roadways or easements.

3. Full-width improvements drainage analysis and design

a) Develop future fully developed conditions hydrology

b) Develop Stormwise model of initial proposed profile for full width pavement section

(1) Analyze proposed profile for existing conditions hydrology

(2) Analyze proposed profile for future conditions hydrology for full-width pavement section

c) Evaluate need for drainage improvements (parallel channels, storm drains, culverts, etc.)

d) Evaluate need for off-corridor drainage easements and improvements.

e) Preliminary sizing of drainage improvements and easements as required to achieve desired roadway drainage conditions.

B. Draft Schematic Design

1. The ENGINEER shall prepare roll plot schematics depicting plan and profile layout for the roadway, design survey, utilities, conceptual drainage facilities and patterns, and typical sections.

2. Three draft roll plot schematics shall be prepared: One roll plot shall depict the future conditions ultimate section. Three typical sections will be provided depicting alternative configurations for the interim roadway configuration. Two of these typical sections shall be progressed and incorporated to schematic roll plots. Two roll plots shall be provided depicting alternatives for the anticipated interim 3-lane portion to be constructed. If the ENGINEER anticipates significant changes from the draft schematic alignment, both horizontal and vertical, then the ultimate schematic only may be provided as part of the draft submittal.

3. The ENGINEER may submit working drawings depicting the proposed horizontal alignment or other elements of concern to the COUNTY for review and comment to reduce the number of revisions that otherwise could be required.

C. Draft Schematic Report

1. The ENGINEER shall prepare a letter report summarizing the design criteria utilized and assumptions made during the preparation of the schematic design.

D. Draft Schematic OPCC

1. The ENGINEER shall prepare a preliminary Engineers Opinion of Probable Construction Cost (OPCC) with a level of detail commensurate to the status of the design.

E. Draft Schematic Design Submittal

1. The ENGINEER shall provide the COUNTY with up to three (3) hard copies and one digital copy of the draft schematic deliverables outlined above.

F. Final Schematic Design and Submittal

1. Upon receipt of comments from the COUNTY and other stakeholders the ENGINEER shall address all comments and provide the COUNTY with up to three (3) hard copies and one digital copy for final approval. Comments on preliminary schematics shall be incorporated into one selected alternative for final schematic to be submitted.

2. Preliminary Design (60%)

A. Preliminary Drainage Analysis and Design

1. Identify necessary drainage improvements for full-width pavement section
2. Coordinate alignment of interim section to accommodate required permanent drainage improvements
3. Model interim section in Stormwise model.
4. Analyze proposed profile for existing conditions hydrology
5. Analyze proposed profile for future conditions hydrology for full-width pavement section
6. Coordinate roadway profile adjustments with to accommodate drainage requirements
7. Identify any drainage improvements required for interim section
8. Design of grading outside interim section to accommodate drainage and grading of off-corridor drainage easements

B. Preliminary Plans

1. The ENGINEER will develop 60% design plans based on COUNTY approved interim alignment and typical section from 30% schematic
2. Plans shall be prepared with the full size set being 22-inch by 34-inch and of an appropriate scale to allow for the reduction and reproduction of a half size 11-inch by 17-inch set.
3. Design shall be in general accordance with COUNTY standards and specifications, TXDOT standards and specifications, where applicable, and good consulting practices for projects of this nature.
4. The preliminary drawings shall include the following:
 - a) Cover Sheet and Sheet Index
 - b) General Notes and Legend
 - c) Project Layout and Survey Control (100 scale, dual pane)
 - d) Right of Way Map (50 scale)

- e) Existing and Proposed Typical Sections (10H; 5V scale)
- f) Demolition and Adjustment Plans (20 scale, dual pane)
- g) Roadway Plan and Profile (20H; 2V scale)
- h) Driveway and Alley Plan and Profiles (20H; 2V scale)
- i) Grading Plans (20 scale)
- j) Cut/Fill plan
- k) Project Drainage Area Maps
- l) Hydrologic and Hydraulic Data Sheet
- m) Ditch Plan and Profiles depicting preliminary depth of flow indications for the 100-year design storm within ROW and any corresponding finished floor elevations
- n) Culvert Plan and Profiles
- o) Traffic Sequencing Plans (20 scale). Plans shall depict high level traffic control sequencing. Detailed traffic control plans shall be provided as part of the final design.
- p) Pavement Markings and Signage Plans (20 scale, dual pane)
- q) Cross sections on 50-foot intervals (10H; 5V scale with up to 6 sections per sheet)

C. Preliminary Opinion of Probable Construction Cost

- 1. The ENGINEER shall submit a preliminary opinion of probable construction cost.
- 2. Bid items within TxDOT and County right of way shall follow TxDOT's standard specifications and item descriptions. Unit costs for these items shall be developed by and large utilizing TxDOT's available 3-month and 12-month rolling averages for recently let projects.
- 3. Bid items within City right of way shall utilize City standard bid item descriptions and standard specifications. Unit costs for these items shall be developed utilizing previously let projects by ENGINEER of similar scope and size as well as TxDOT's available 3-month and 12-month rolling averages for recently let projects.

D. Preliminary Construction Plan Submittal

- 1. The ENGINEER shall provide copies of preliminary construction plan drawings for COUNTY review and for submission to utility companies and other agencies for the purposes of coordinating work with existing and proposed utilities. The preliminary submittal to the COUNTY will be made at the 60% stage. The ENGINEER will submit plans to TxDOT and other entities for review. The ENGINEER will provide up to five (5) hard copies and an electronic copy at the 60% submittal.

3. Final Construction Drawings and Project Manual (90%)

A. Final Drainage Analysis and Design

- 1. Update Stormwise model to represent final roadway alignment and profile.
 - a) Permanent full-width roadway section
 - b) Interim roadway section

2. Confirm location and size of drainage outfalls based on final roadway profile.
 3. Finalize sizing of permanent drainage improvements
 4. Finalize sizing of drainage improvements required for interim section.
 5. Final grading outside interim section to accommodate drainage and grading of off-corridor drainage easements.
 6. Identify additional ROW and/or easement requirements to accommodate drainage design.
- B. The ENGINEER shall prepare Final Construction Plan Drawings.
- C. This 90% submittal will:
1. Incorporate COUNTY review comments from the 60% milestone submittal.
 2. Develop the following final design sheets:
 - a) Erosion Control Plans (20 scale, dual pane)
 - b) Traffic Control Plans (20 scale). Complete traffic sequencing plan presented in the 60% submittal. Completed traffic control plans will include evaluating the impact of the traffic control plan on surrounding drainage and provisions for interim drainage plan, if needed.
 3. Incorporate and develop any necessary design details including:
 - a) Consultant Provided Project Specific Details
 - b) County, City and Agency Standard Details
- D. Final Opinion of Probable Construction Cost (90%)
1. The ENGINEER shall submit a final opinion of probable construction cost with the respective updates to bid items, quantities and/or unit prices resulting from changes made between the 60% and 90% milestones.
 2. Provisions 2 and 3 of the Preliminary Opinion of Probable Construction Cost shall also apply.
- E. Final Project Manual and Specifications
1. The ENGINEER shall prepare a Final Project Manual including Specifications and other construction contract documents.
 2. This 90% submittal will:
 - a) Use the TxDOT Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges September 2024 as base specifications and prepare a description of each bid item for inclusion in the Project Manual. The description will include any modifications to the TxDOT specifications for the project.
- F. Final Construction Plan Submittal
1. The ENGINEER shall provide copies of final construction plan drawings for COUNTY review and for submission to utility companies and other agencies for the purposes of coordinating work with existing and proposed utilities. The final submittal to the COUNTY will be made at the 90% stage. The ENGINEER will submit plans to TxDOT, City of

Wolfforth, City of Lubbock, and other interested entities for review. The ENGINEER will provide up to five (5) hard copies and an electronic copy at the 90% submittal.

G. Final Design Review Meeting

1. The ENGINEER shall meet with COUNTY to discuss review comments of the 90% Design submittal. The COUNTY shall direct ENGINEER in writing to proceed with completion of the Final Design.

4. Design Completion

Following COUNTY approval of the 90% submittal, ENGINEER shall prepare Final Construction Plan Drawings, OPCC, and Project Manual (each shall be sealed, dated and signed by the Licensed Professional Engineers responsible for the design) and submit five (5) hard copy sets and one (1) electronic set of documents to the COUNTY. This shall be considered the 100% submittal.

EXCLUSIONS

Other additional services, not included in this contract, will be negotiated with the COUNTY as needed. Compensation will be based upon a mutually agreed lump sum fee or an hourly rate as described below. Items that are considered additional services include but are not limited to:

- A. Any services not specifically outlined in this scope.
- B. Right of Way services, including acquisition assistance, and condemnation services.
- C. Attendance or preparation for Public Meeting(s), City Council Meetings, County Commissioners' Court Meetings, or Planning and Zoning meetings.
- D. Graphic products except as noted herein
- E. Landscape architecture and irrigation design
- F. Resurvey to reflect project scope changes requested by the County, required to address changed conditions or change in direction previously approved by the County, mandated by changing governmental laws, or necessitated by the County acceptance of substitutions proposed by the contractor.
- G. Traffic Studies, traffic impact analyses, or collection of traffic counts
- H. Traffic signal design, or traffic signal conduit and appurtenance plans
- I. Streetlight design, Illumination Plans, Photometric Mapping, Illumination Voltage Drop Calculations
- J. Fiber Optic Conduit Plans
- K. Agreements, permitting, permit fees, filing fees, pro-rated fees, impact fees and taxes
- L. Traffic control for SUE operations beyond standard localized measures consisting of cones and free-standing signage. Non-standard localized measures are considered activities that require items including but not limited to barricades, flaggers, message board)
- M. QL-B SUE for irrigation lines, services, asbestos concrete and/or pvc lines, and pvc lines without tracer wire or access
- N. Concrete Coring as part of SUE investigation
- O. Design of sanitary sewer, water, gas, telephone, or other utility improvements, relocations, or adjustments except as noted herein
- P. Design of utilities or other improvements outside of the project boundary or roadway rights of way (not in scope)
- Q. Revisions to plans requested by the County after plans are approved
- R. SWPPP preparation
- S. Environmental assessments
- T. Bidding, Construction, and Completion services for construction phases.
- U. Construction phase services including administration and/or engineering and inspection
- V. Utility or construction staking
- W. Material testing
- X. TDLR Review

SCHEDULE

The scope of services outlined for the above project is based on the schedule provided below. For the purposes of this schedule all days are considered to be working days based upon an assumed 5-day work week.

A. Kickoff Meeting	15-working days from Notice to Proceed
B. Level B SUE	45-working days from Notice to Proceed
C. Geotechnical Data Collection and Report	45-working days from Notice to Proceed
D. Design Survey	45-working days from Notice to Proceed
E. Draft Schematic (30%) Design	95-working days from Notice to Proceed
F. Final Schematic (30%) Design	20-working days from receipt of draft schematic comments
G. Preliminary (60%) Design	60-working days from notice to proceed with preliminary design
H. Final (90%) Design	45-working days from receipt of preliminary design comments
I. Signed and Sealed (100%) Design	30-working days from receipt of final design comments

EXHIBIT B
SCHEDULE OF FEES

CR 7200 (West 98th Street)
From Alcove Avenue to US Hwy 62/82

Exhibit B defines the basis of compensation to the ENGINEER for the services renders as described under Exhibit A.

PHASE	FEE
PHASE 1 - PROJECT MANAGEMENT AND COORDINATION	
KICKOFF AND COORDINATION MEETINGS	\$60,700.00
PROJECT MANAGEMENT, QAQC, AND REPORTING	\$24,900.00
UTILITY COORDINATION	\$69,500.00
AGENCY COORDINATION	\$8,400.00
PHASE 2 - FIELD DATA COLLECTION	
RIGHT OF ENTRY AND SURVEY	\$80,600.00
ROW PARCELS	\$35,000.00
SUE LEVEL B	\$29,800.00
SUE LEVEL A	\$21,500.00
GEOTECHNICAL	\$20,000.00
PHASE 3 - DESIGN	
SCHEMATIC (30%) DESIGN	\$237,400.00
PRELIMINARY (60%) DESIGN	\$203,700.00
FINAL (90%) DESIGN	\$86,700.00
SIGNED AND SEALED (100%) DESIGN	\$50,700.00
PROJECT TOTAL	\$928,900.00

Services will be provided on a lump sum basis not to exceed the project total shown above. Billing will be based on a percent-complete basis at regular intervals not more frequently than monthly. Printing, delivery, and subconsultant charges will be invoiced at direct cost times 1.1.

ESTIMATED EFFORT

Halff Associates, Inc