

AGUIRRE & FIELDS, LP
AGUIRRE, LLC - GENERAL PARTNER

By: *Christine R. Crosby*
Christine R. Crosby, Vice-President

October 1, 2021
Date

CITY OF ROUND ROCK

APPROVED AS TO FORM:

By: _____
Craig Morgan, Mayor

Stephan L. Sheets, City Attorney

Date

ADDENDUM TO EXHIBIT A
City Services

Attached Behind This Page

**ADDENDUM TO EXHIBIT A – SWA 01
CITY OF ROUND ROCK**

**OLD SETTLERS EXTENSION
FROM N RED BUD LN TO CR 110
PS&E/CONSTRUCTION SERVICES**

SERVICES TO BE PROVIDED BY THE CITY

The City of Round Rock will provide the following items/information for the Engineer under this agreement:

1) ROUTE & DESIGN STUDIES (FC 110)

- i) Provide available plans and/or data for adjacent projects, including the adjacent N Red Bud Ln improvements and CR 110 South schematic.
- ii) Attend Design Concept Conference with The Engineer to discuss revisions to the design prior to development of the 60% plans.
- iii) Provide review/approval of pavement design

2) RIGHT OF WAY DATA (FC 130)

- i) Assist with Rights-of-Entry (ROE) for all adjacent properties if initial request is denied.
- ii) Conduct all ROW appraisals and acquisitions.
- iii) Coordination for any temporary construction easements.
- iv) Coordination for any drainage easements.
- v) Assist with coordinating utility adjustments and proposed relocation plans by utility owners.

3) ROADWAY DESIGN CONTROLS (FC 160)

- i) Assist with the coordination and procurement of design files for adjacent projects, including the adjacent N Red Bud Ln improvements and CR 110 South schematic.
- ii) Provide a PS&E checklist and preferred plan set go-by (if applicable) for use by the Engineer.
- iii) Provide example Estimates and hard copy documentation for the Engineer's use in preparing the Estimate, General Notes and Specifications.
- iv) Provide direction for the creation of Design Cross Sections.

4) PROJECT MANAGEMENT & ADMINISTRATION (FC 164)

- i) Provide timeline/schedule confirmation for milestone submittals.
- ii) Provide the Engineer with timely reviews/decisions to maintain the project schedule.
- iii) Provide agreements with property owners for all necessary off-site improvements. Consultant to develop utility agreements with utility provider's and City oversight.
- iv) Meet with the Engineer on an as-needed basis.
- v) Provide payment of all associated application and review fees required for jurisdictional approval of the project.

**ADDENDUM TO EXHIBIT B - SWA 01
ENGINEERING SERVICES**

**OLD SETTLERS EXTENSION
FROM N RED BUD LN TO CR 110
PS&E/CONSTRUCTION SERVICES**

This contract consists of providing engineering services required for the preparation of plans, specifications and estimates (PS&E) and related supporting documents for the construction of Old Settlers Blvd in Round Rock, TX on new location. The project limits will begin at N Red Bud Ln and end at CR 110, with transitions as necessary beyond those intersections to accommodate the traffic control plan or other miscellaneous work. Old Settlers Blvd will consist of an average 110-foot right-of-way, 68 feet of pavement, twin bridge structures, retaining walls, corridor fencing, curb and gutter, and a sidewalk/shared use path on each side of the road. These services include preparing roadway design, hydrologic and hydraulic design, structural design, signal design, waterline design, geotechnical investigation, supplemental survey, utility coordination, and attendance at the city's monthly utility coordination meeting as necessary.

FC 110 - ROUTE & DESIGN STUDIES

1. DATA COLLECTION & FIELD RECONNAISSANCE

- a. Aguirre & Fields, LP ("the Engineer") shall collect, review, and evaluate the data described below. The City of Round Rock (City) will be notified in writing whenever the Engineer finds disagreement with the information or documents. The Engineer shall:
 - i. Review plans and/or data from the City, including the adjacent N Red Bud Ln improvements and CR 110 South schematic.
 - ii. Review supplemental survey and topographic file.
 - iii. Conduct field reconnaissance and collect data including a photographic record of any changes since the 30% schematic submittal.
- b. The Engineer shall collect data to support the finalization of the traffic report and signal design:
 - i. Obtain Weekday 12- Hour Turning Movement Counts at the following intersections CR 110 at Porano Circle.
 - ii. Obtain 24-hour tube counts on one Weekday on CR 110 south of Porano Circle.
 - iii. Obtain Traffic Impact Analysis (TIAs) for Siena MUD Subdivision and other new approved developments in the area.
 - iv. Conduct field reconnaissance to observe existing traffic pattern and existing conditions for signal and illumination design.

2. DESIGN CRITERIA

- a. The Engineer shall schedule and attend one Design Concept Conference with the City once the Public Involvement and Outreach Process (Open House #2) has been completed, and public comments and attendance are documented. The purpose of this meeting will be to discuss any necessary revisions or updates to the design prior to developing the 60% plans. The Engineer shall create and distribute meeting notes for concurrence by the City.
- b. The Engineer shall update the design summary report (DSR) and project notebook to document design decisions as necessary.
- c. Deliverables:

- i. Design Concept Conference Notes for approval
- ii. Design Summary Report (DSR)

3. GEOTECHNICAL INVESTIGATION & FIELD WORK

- a. The Engineer shall determine boring locations for retaining wall structures.
- b. The Engineer shall perform borings and obtain soils samples. Borings are estimated to consist of the following:
 - i. 2 retaining wall borings to a depth of 20 feet within the at-grade or fill areas at 200-foot maximum intervals. The boring depths may be reduced when encountering rock and shall have a 5-foot minimum penetration into rock.
 - ii. Borings shall occur within the limits of the future retaining walls.
- c. The Engineer shall obtain two Scour analysis hand samples.
- d. The Engineer shall perform laboratory testing to classify soil strata, evaluate plasticity and shrink/swell potential and evaluate the compressive strength. Typical Tests include moisture contents, Atterberg Limits, unconfined compressive strengths, sieve analyses, sulfate content tests, and grain size distribution curves with D50 value.
- e. The Engineer shall prepare/update a signed, sealed, and dated Geotechnical Report to include the summary of field investigations, laboratory testing results and recommended retaining wall design.
- f. Deliverables:
 - i. Signed/Sealed Geotechnical Report
 - ii. Boring Logs

4. TRAFFIC ENGINEERING & OPERATIONS

- a. The Engineer will update signal warrant analysis at the intersection of Old Settlers Blvd and CR 110. The Engineer shall:
 - i. Estimate projected turning movement volumes at the future intersection of Old Settlers Blvd Extension and CR 110 using new turning movement counts at CR 110 and Porano Circle.
 - ii. Conduct signal warrant analysis at the future intersection of CR 110 and proposed Old Settlers Blvd Extension following methodology found in Chapter 4 of the Texas Manual on Uniform Traffic Control Devices (TMUTCD). Warrant 3 (Peak-Hour Volume) will be analyzed using projected turning movement counts. TMUTCD Warrant 2 (Four-Hour Volume) and Warrant 8 (Daily Volume) will be analyzed using 12-hour roadway segment counts collected in Task II and traffic volume projections.
 - iii. Summarize findings of the traffic study in a technical memorandum.
- b. Deliverables:
 - i. Updated Signal Warrant Study Technical memorandum

FC 120 – PUBLIC INVOLVEMENT

1. RIGHT OF WAY MAP

- a. The Engineer’s subconsultant will provide public involvement during this phase to keep stakeholders updated on design progress, answer questions, and support the team with stakeholder communications. CD&P will schedule and facilitate meetings with affected property owners as circumstances require and document meeting outcomes. CD&P will provide updates to project materials and content for updates to the City of Round Rock project webpage. CD&P will update the project database with stakeholder contact information and communications.

- b. Deliverables:
 - i. Stakeholder database
 - ii. Coordinate, attend, and document up to 8 stakeholder meetings
 - iii. Respond to stakeholder inquiries and provide project email updates
 - iv. Update project materials (fact sheet, maps and FAQs)
 - v. Provide content updates for City of Round Rock project webpage

FC 130 – RIGHT OF WAY DATA

1. RIGHT OF WAY MAP

- a. The Engineer will finalize proposed Right of Way (ROW) and easements. The Engineer shall:
 - i. Review Survey ROW documents.
 - ii. Review SUE data and utility conflicts.
 - iii. Refine the 3D roadway model to establish construction limits for proposed easements.
 - iv. Update ROW and easement linework in CADD for the PS&E.
- b. The Engineer's Surveyor shall prepare proposed ROW documents:
 - i. Preparation of Right of Way (ROW) Document (Meets & Bounds).
- c. The Engineer's Surveyor shall set ROW Monumentation:
 - i. The Engineer's Surveyor will set ½-inch iron rods with caps at PCs, PTs, angle points and at no greater than 1,000 foot intervals along tangents on the proposed ROW line. 1/2-inch iron rods with caps will be set at property line intersections with the new right-of-way line.
- d. Deliverables:
 - i. One legal description for each parcel (signed and sealed). Up to five (6) exhibits.
 - ii. One individual survey plat on 8 1/2"x11" for each parcel (signed and sealed).
 - iii. One set of area computation sheets for legal descriptions and plats and ROW maps for all parcels.
 - iv. Digital files will be uploaded onto ProjectWise for the ROW base file and reference files in MicroStation (.dgn) format.

2. SUBSURFACE UTILITY ENGINEERING (SUE)

- a. The Engineer will provide Subsurface Utility Engineering (SUE) as described below:
 - i. The Engineer shall perform Quality Level-B and Quality Level-A SUE.
 - ii. As necessary: in accordance with CI/ASCE 38-02 'Standard Guideline for the collection and depiction of existing subsurface data.' The Quality Level-B investigation will encompass the portion of the project area east of McNutt Creek to the eastern limit of the project at CR 110. The Quality Level-A investigation assumes up to 15 test holes to be used as necessary and invoiced to the City for each hole conducted. This standard defines the following quality levels:
 - 1. 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.
 - 2. 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.

3. UTILITY COORDINATION (UC)

- a. The Engineer shall provide Utility Coordination for the project as described below:
 - i. The Engineer shall maintain a Utility Contact List, Utility Conflict Matrix (UCM) Spreadsheet and Conflict Layout Exhibit.
 - ii. The Engineer shall maintain a 2D Conflict Layout Exhibit in the MicroStation/GeoPak SS10 version used by the City of Round Rock. The exhibit shall include existing utilities which are to remain in place or be abandoned, and adjusted utilities. This layout will be utilized to monitor the necessity to evaluate alternatives. Facilities in conflict with the proposed project that are to be relocated. Facilities to be abandoned in place. Facilities to remain in service and in place.
 - iii. The Engineer shall facilitate utility conflict identification and review of resolutions for utilities conflicts to be adjusted, relocated, or accommodated in the public right of way.
 - iv. The Engineer shall review the utility's proposed adjustments and coordinate compliance with local, state, and federal utility accommodation rules.
 - v. The Engineer shall prepare for and attend up to twelve (12) coordination meetings with individual utility owners including transmission line power provider and two (2) coordination meeting with the City.
 - vi. The Engineer shall coordinate distribution of NOPC letters (Notice of Proposed Construction) and NORA (Notice of Required Accommodation) letters.
 - vii. The Engineer shall coordinate Utility Certifications and/or Special Provisions for any utility adjustments not fully completed by the time of the project letting phase.
 - viii. Deliverables:
 1. Quality Level-B 2D Utility Designation will be 11-in. x 17-in. SUE plan sheets depicting the findings of the investigation.
 2. 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 format along with PDFs and photos.
 3. Utility Contact List
 4. Utility Conflict Matrix Spreadsheet
 5. Utility Conflict Layout Exhibits
 6. Meeting Minutes (delivered electronically)
 7. Utility Certificates
 8. Electronic CAD files

FC 131 - UTILITIES

1. UTILITIES

- a. Half shall design approximately 4,030 linear feet of new waterline to be constructed within the ROW of the Old Settlers extension. The proposed waterline will connect to the CORR's existing system at two points, at the intersection of Old Settlers Blvd and Red Bud Ln and at an existing stub out from Pauling Loop, and terminate at CR 110. The connection to the water system off of Pauling

- Loop will require a dedicated utility easement on CORR property.
- b. Diameter of proposed main will be selected by CORR based on digital water modeling.
 - c. Horizontal alignment will account for extension to the parcels south of Old Settlers ROW. If required, a minimum of two roadway crossings will be included in the design to allow for connection to the water system by the south parcels.
 - d. Design shall conform to the CORR's utility criteria and standards.
 - e. Plan Preparation
 - i. Project Layout will show limits of waterline installation (one sheet at 1"=200')
 - ii. Utility Notes applicable to this project provided by the City of Round Rock.
 - iii. Project Specific Notes
 - iv. Utility Plan & Profile (1"=40' horiz)
 - v. City of Round Rock Standard Utility Details
 - vi. Special details, as necessary
 - f. Easement Documentation
 - i. Halff shall prepare an easement document containing a metes and bounds description for a waterline easement that will encompass the proposed waterline from the edge of the Sienna development (Pauling Loop) to the new Old Settlers ROW.

FC 150 – SURVEY

1. SURVEY

- a. The Engineer's Surveyor shall provide Supplemental Design Surveys as described below
 - i. The Surveyor shall collect supplemental data for a typical design and topographic survey. Process data for DTM & Triangle Irregular Network (TIN) (2D & 3D), including but not limited to chains and points; planimetric maps (2D) & topographic maps, cross sections and/or drainage analysis and other needs as detailed below.
 - ii. Typical DTM & topographic data includes but is not limited to: natural ground (NG), roadway surfaces, edge of pavement (EP), centerline, grade breaks, striping, driveways and side streets (determine driveway/side street radii), curb, ditches, culverts, headwalls, drainage structures, channel(s), riprap, power poles, signs, delineators, luminaries, fences, manholes, sewer lines, telephone boxes, junctions, etc., water valves, fire hydrants, pipeline crossings, gas meters, gas valves, etc., and any other visible utility.
 1. Driveway and street/county road data collect type of surface (asphalt, concrete, seal coat, gravel, dirt, etc.), with or without culvert, type of culvert pipe, size, length, with or without Safety End Treatment (SET) for a distance of 200' beyond the existing Old Settlers Blvd. ROW.
 2. Cross road structures data (includes culverts and bridge class structures), collect type, size, end treatment, etc., and profile for crossroad structure.
 3. Bore Hole locations
 4. Identify and photograph features (signs, mail boxes, etc.).
 5. Trees- all trees of 8" diameter or greater shall be located and tied in. Information needed is trunk size, tree type and limits of canopy (size).
 6. Develop pavement centerline alignment of existing pavement(s).
 7. Run existing cross sections as a back check for errors in data or processing
 8. Utility locations- Behind curbs, tie visible utility locations, including ties to above-ground features, such as power poles, valves, and other utility features to the right-of-way line either found by our surveyors or located for us by utility companies

- and/or other agencies. One-call will be notified prior to acquisition of survey. The Engineer shall not be liable for utilities not identified as part of the one-call at the time of survey. Note: does NOT include tying irrigation heads; irrigation heads are often below the grass and not readily visible/locatable.
9. The Texas Excavation Safety System, DIGTESS one call system (phone number 1-800-DIG-TESS) shall be notified for utility locations and prior to drilling, setting or driving anything including property corners or control monuments below 16" depth, as detailed by DIGTESS (<http://www.digtess.org>), which may impact or be impacted by the existence of any underground utility, whether visible or not. Note that some local or city utilities may not be a part of the DIGTESS system and may require separate notification.
 10. Perform a bathymetric survey of McNutt Creek from face of dam to \pm 200 feet north and merge data with DTM. Note: this information is necessary for bridge scour analysis.
 11. As built survey of McNutt Creek bridge crossing to include: Top of road, top of rail, bottom chord, abutments, and bent locations for using in LOMR application package.
- b. Specifications & Standards for the Work:
- i. The Engineer's Surveyor shall perform all work in accordance with the contract and the provisions, standards, specifications, manuals (City of Round Rock Transportation Criteria Manual, ROW- Vol. I, Procedures Preliminary to Release, et al), methods, procedures, deliverables, deliverable format and any other information contained within or referenced to in the contract as previously agreed to by both parties.
- c. Field Surveying Deliverables:
- i. Data
 1. Raw field data
 2. Processed field data
 3. Project digital pictures (delivered in .jpg format)
 4. 3D & 2D Topo (.dgn) processed files in MicroStation/GeoPak SS10, with all chains and points included on the 30% existing survey.
 - ii. Signed Right of Entry forms if ROE is acquired.
 - iii. ROW Products
 1. .dgn of Proposed and Existing ROW
 2. Reference Deeds, support documents, scanned and in .pdf format.
 - iv. Survey Control - Survey Control shall be furnished in two (2) forms-
 1. The City's Control Sheet(s) format, which consists of:
 - a. A Control Layout index map, which contains an overall view of the project area with the locations of primary and secondary control identified and labeled.
 - b. A Horizontal and Vertical Control Sheet(s), which contains monument sketches of primary and secondary control points. Monument sketches shall tie monuments to a minimum of three existing features.
 - c. Survey Control Sheet(s) information shall include the NGS or other basis monument(s) name or identification number, Texas Coordinate System (TCS) zone information, Grid and Surface values in X, Y, & Z coordinates, the Combined Adjustment Factor or Surface Adjustment Factor, and project

- station and offset.
- d. Survey Control Sheet(s) shall be delivered as an 11" x 17" sized sheet as a MicroStation dgn and as a PDF.
- 2. An individual 8 ½" x 11" Control Point Data Sheet for each primary control monument (delivered as original, interactive PDF file).
- v. All delivered control documentation shall be signed with a date of signature and sealed by a Texas RPLS.
- vi. Provide information on cross-sections used as a back check for errors in data or processing.
- vii. Raw GPS files.
- viii. For static GPS sessions, in RINEX format.
- ix. For RTK GPS, furnish reports of network information.
- x. ASCII file(s) of final position information.
- xi. MicroStation/GeoPak SS10 file (.dgn) of all drawings.
 - 1. Shall include within the drawing file: Company name, address, telephone number, Surveyor's name, date(s) of survey and survey datum information.
 - 2. Shall follow the naming convention "MDF "_Logical Name.dgn
 - 3. E.g. "MDF212104065_Topo.dgn"
- xii. .gpk, .prj, .tin and .dat files that are compatible with MicroStation/GeoPak SS10 format.
- xiii. Upload all files to ProjectWise in appropriate folder.
- xiv. Preliminary Deliverables shall be delivered as scheduled, in full, to include all items as listed above.
- xv. Final Deliverables shall be delivered as scheduled, in full, to include all items as listed above no later than 15 days after the return of corrected Preliminary deliverables from the City to the consultant.

FC 160 – ROADWAY DESIGN CONTROLS

1. ROADWAY DESIGN

- a. Horizontal Design – The Engineer shall refine the horizontal design for the Old Settlers Extension Project as described below:
 - i. Refine and extend alignments for Old Settlers Blvd and Porano Circle (after supplemental survey is obtained).
 - ii. Design ultimate configuration for the intersection at Old Settlers Blvd and CR 110.
 - iii. Create horizontal alignment for reconstruction of Porano Circle at CR 110 (after supplemental survey is obtained).
 - iv. Add driveway access to the City-owned parcel on the west side of McNutt Creek.
 - v. Update OpenRoads design files, gpk, and Microstation base/sheet files as necessary.
- b. Vertical Design – The Engineer shall refine the vertical design for the Old Settlers Extension Project as described below:
 - i. Refine Old Settlers profile at creek and Siena MUD to minimize the need for proposed retaining walls.
 - ii. Create profile for Porano Circle at CR 110.
 - iii. Create profile for proposed driveway west of McNutt Creek.
 - iv. Create profile for proposed sidewalk that ties to existing sidewalk at the Siena Park.
 - v. Profile adjustments as necessary for storm sewer design.
 - vi. Update OpenRoads design files, gpk, and Microstation base/sheet files as necessary.

- c. Review/Incorporate design for adjacent projects – The Engineer shall review and incorporate the design files for adjacent projects (including N Red Bud Ln and CR 110 South improvements) as described below:
 - i. Organize and import design files into ProjectWise.
 - ii. Update horizontal/vertical/cross sectional design of Old Settlers Blvd as necessary.
 - iii. Update OpenRoads design files, gpk, and Microstation base/sheet files as necessary.
- d. 3D OpenRoads Model - The Engineer shall refine the 3D OpenRoads Model as the project design progresses and will perform the following tasks:
 - i. Update 3D OpenRoads model to reflect roadway design changes (horizontal/vertical/cross sectional) as necessary. This also includes (but is not limited to) model revisions for the shared use path/sidewalk, retaining walls, site grading, cross culverts.
 - ii. Create 3D OpenRoads model using latest design files for the adjacent N Red Bud Ln project. This model will be used as future existing ground for the N Red Bud Ln intersection, where Old Settlers Blvd will tie into.
 - iii. Create 3D OpenRoads model for Porano Circle at CR 110 (after supplemental survey is obtained).
 - iv. Create proposed surface and .tin file.
- e. Proposed Cross Sections – The Engineer shall produce proposed cross sections at 50-foot intervals to submit with the 60% Plans. The Engineer shall:
 - i. Obtain/calculate cut and fill quantities - existing and proposed cross sections at 50 foot intervals will be created to determine cut and fill quantities. OpenRoads will be used to calculate quantities.
 - ii. Cut cross sections using OpenRoads.
 - iii. Create cross section plan sheets (11x17). This includes creation of a project specific sheet border, cross section annotation, and sheet clean up.
 - iv. Design cross sections will be plotted on sheets and submitted separately.
- f. Cross Section Updates - The Engineer shall produce updated cross sections to submit with the 95% and Final Plans.

2. PLAN SET DRAFTING

- a. The Engineer shall produce 60%, 95% and Final plans for the Old Settlers Extension Project:
 - i. Title Sheet - will include project name and number; site location; project limits, design speed, signature blocks, and logos as directed by the City.
 - ii. Index of Sheets
 - iii. Project Layout (1"=200')
 - iv. Typical Sections
 - 1. Proposed typical section and existing typical section at tie in point.
 - 2. Sections will include proposed pavement width, travel lanes, pavement structure, sidewalk location and typical cross slope requirements.
 - 3. Typical section will depict typical right of way width.
 - v. General Notes (provided by the City of Round Rock)
 - vi. Removal Layout (1"=50)
 - vii. Horizontal Alignment Data
 - viii. Roadway Plan & Profile (1"=50')
 - ix. Intersection Layout (1"=20')
 - x. Proposed Grading (1"=50)
 - xi. Roadway, Sidewalk, & Driveway Details

- xii. Roadway Standards
 - b. The Engineer shall prepare/assemble 60%, 95% and Final plans, to be submitted in electronic and hard copy (11"x17") formats. This includes general CADD tasks related to the development of the Plans, Specifications, and Estimate, including supporting documentation.
 - i. File management for CADD, plan set, and supporting documents
 - ii. Create and maintain PSET, pen tbl, resource files
 - iii. Create base files (sheet border, clip shapes)
 - iv. Set up motif/master container files for plan sheets
 - v. Incorporate subconsultant sheets into plan set
 - vi. Compile and PDF plan set, supporting documentation, design calculations
 - vii. Print hard copies for submittal
 - viii. Sign/seal final plan set
 - c. Deliverables:
 - i. 60% PS&E Package
 - 1. 60% Plan Set, Specifications, and Construction Cost Estimate
 - ii. 95% PS&E Package
 - 1. 95% Plan Set, Specifications, and Construction Cost Estimate
 - iii. Final PS&E Package
 - 1. Final Signed/Sealed Plan Set, Specifications, and Construction Cost Estimate
 - 2. All OpenRoads, GEOPAK, and Microstation project files (.dgn, .gpk, .tin)
 - iv. Deliverables will be submitted in both electronic and hard copy formats
3. QA/QC
- a. The Engineer shall submit QA/QC documentation of 60%, 95% and Final plans for the Old Settlers Extension Project.

FC 161 – DRAINAGE

1. DRAINAGE

- a. Bridge Scour Analysis – The Engineer shall perform a scour analysis of the proposed bridge crossing and provide the scour envelopes for use in the plans. The Engineer will also update the drainage report.
 - i. Perform a scour evaluation for the proposed bridge structure over McNutt Creek for 60%, 95% and final bridge plans.
 - ii. Scope assumes the Engineer will provide two channel bed sieve analysis
 - iii. Provide the potential scour depths, envelope, and recommended countermeasures, if needed.
 - iv. The scour analysis report will be prepared as a separate document and may be included in the Final Drainage Report as an appendix.
- b. Final Drainage Report – The Engineer shall update the drainage analysis prepared during the schematic design phase.
 - i. Update Drainage Report to reflect final design plans
 - ii. Submit draft Drainage Report to City for review and approval
 - iii. Scope assumes one (1) Drainage Report meeting with the City Floodplain Administrator.
- c. Conditional Letter of Map Revision (CLOMR) Submittal
 - i. Prepare CLOMR submittal package for McNutt Creek for the 10-year, 50-year, 100-year,

- 500-year, and Ultimate 100-year frequency storm events based on the Upper Brushy Creek preliminary FEMA models provided by the City. These models are considered to be the best available data at this time.
- ii. Prepare effective, corrected effective, pre-project, and post project hydrology (if needed) and hydraulic models, and run cHECK-RAS for all HEC-RAS models.
 - iii. Prepare exhibits and tables showing floodplain tie-in points upstream and downstream of the proposed project.
 - iv. Update flood profiles, hydrology (if needed) and floodway data tables in the FIS as needed.
 - v. Prepare MT-2 FEMA forms for CLOMR submittal to City and FEMA.
 - vi. Environmental Assessment to be included with the CLOMR submittal.
 - vii. Final proposed plans to be included with the CLOMR submittal.
 - viii. Submit CLOMR to City Floodplain Administrator for review and approval. This scope assumes one (1) CLOMR meeting with the City Floodplain Administrator.
 - ix. Submit CLOMR to FEMA for review and approval. A FEMA review fee is required upon submittal to FEMA and will be submitted on the Engineer's invoice as a pass-through expense to be paid by the City.
 - x. Coordinate up to two (2) iterations with FEMA reviewers.
- d. Letter of Map Revision (LOMR) Submittal
- i. Prepare LOMR submittal package for McNutt Creek for the 10-year, 50-year, 100-year, 500-year, and ultimate 100-year frequency storm events based on the Upper Brushy Creek preliminary FEMA models provided by the City. These models are considered to be the best available data at this time.
 - ii. Prepare effective, corrected effective, pre-project, and post project hydrology (if needed) and hydraulic models and run cHECK-RAS for all HEC-RAS models.
 - iii. Prepare exhibits and tables showing floodplain tie-in points upstream and downstream of the proposed project.
 - iv. Update flood profiles, hydrology (if needed) and floodway data tables in the FIS as needed.
 - v. Prepare MT-2 FEMA forms for LOMR submittal to City and FEMA.
 - vi. Final as-built plans signed and sealed by a licensed engineer to be included with the LOMR submittal.
 - vii. Submit LOMR to City Floodplain Administrator for review and approval. This scope assumes one (1) LOMR meeting with the City Floodplain Administrator.
 - viii. Submit LOMR to FEMA for review and approval. A FEMA review fee is required upon submittal to FEMA and will be submitted on the Engineer's invoice as a pass-through expense to be paid by the City.
 - ix. Coordinate up to two (2) iterations with FEMA reviewers.
- e. Storm Drain Facilities
- i. Any proposed public drainage system will be designed to the twenty-five (25) year frequency storm based on fully developed conditions as appropriate. The one hundred (100) year frequency storm event will be designed to be contained within public rights of way or drainage easements as outlined in the latest City Drainage Criteria Manual.
 - ii. The Engineer shall prepare existing and proposed drainage area maps, hydraulic link calculations, inlet calculations and quantity and cost estimates for all proposed storm drain facilities, not including the proposed bridge crossing.
 - iii. Storm Sewer plan and profile sheets along with standards will be included in plan set. City standards will be used. TxDOT standards will be used for all design features which do not have

- an applicable City standard.
- iv. Culvert plan and profile sheets along with standards will be included in plan set. TxDOT standards will be used for all design features which do not have an applicable City standard. Scope assumes one culvert extension at Porano Circle and CR 110.
 - v. This scope assumes storm drain design of the realignment of N Red Bud Ln and Old Settlers Blvd improvements west of Red Bud are to be performed by others.
 - vi. Proposed detention facilities design or analysis of the City Regional Stormwater Management Program (RSMP) are not included in this scope. It is assumed detention facilities will not be required based on time frequencies of the proposed improvements relative to the overall basin timing for the creek. If the City requires install detention facilities or conduct a timing analysis for the RSMP, a Supplemental agreement may be required.
 - vii. Deliverables:
 1. 11X17 construction plans sheets for proposed storm drain infrastructure, storm and inlet calculations, culvert calculations and construction details.
 - a. Existing and proposed drainage area maps including hydrology calculations (25 and 100-YR events)
 - b. Storm drain plan and profile to include 25 and 100-YR HGL & Q,V,D calcs per conduit link
 - c. Lateral profiles to include 25 and 100-YR HGL & Q,V,D calcs per conduit link
 - d. Hydraulic calculation sheets (25 and 100-YR storm events)
 - e. Inlet calculation sheet(s) (25 and 100-YR events)
 - f. Standard detail sheets
 - g. Custom detail sheet(s), as necessary
 - h. Proposed culvert extension plan and profile, calculations, and construction details.
 - i. Quantity Summary Sheet
 - j. Cost Estimate (60%, 95%, Final)

FC 162 – SIGNING, PAVEMENT MARKINGS, & SIGNALS

1. SIGNING & PAVEMENT MARKINGS

- a. The Engineer will develop a design for signing and pavement markings along the Old Settlers Blvd Extension.
- b. The Engineer will prepare plans for signing and pavement markings at a scale of 1"=50' and will include the following:
 1. Signing & Pavement Marking Layouts
 2. Small Sign Details
 3. Summary of Small Signs Sheet
 4. Standard Sheets using City of Round Rock and/or TxDOT Standards

2. SIGNAL DESIGN

- a. Signal Design Plans: The Engineer will develop plans to install new traffic signal at the future intersection of CR 110 and Old Settlers Blvd. The Engineer will also develop sheets for signal modifications at CR 110 and N Red Bud Lane. For this scope, the Engineer has assumed that the modifications will be limited to pedestrian equipment (ped-pole, push buttons and associated wiring) relocation only and does not include any plans to install new traffic signal poles and signal

- cabinet.
- b. The signal plans will be prepared at a scale of 1"=40' and will include the following sheets.
 - i. Signal Layout sheet will show the locations of proposed signal poles, pedestrian poles, signal heads, communication equipment, electrical conduits, ground boxes, signal cabinet, new electrical service, existing utilities, right of way, and proposed roadway improvements. Locations of pedestrian poles and pedestrian access ramps will be designed in conformance with ADA requirements. Due to lateral and vertical clearance required from an overhead electric line (per the State law), the Engineer will coordinate with the City before finalizing locations of signal poles, where applicable.
 - ii. Signal Elevation sheet will show placement of signal heads on a mast-arm and vertical clearance required for the mast-arm.
 - iii. Conduit Chart and Electrical Wiring sheet will show the type and number of electrical wires in each conduit run. A new electrical service will be designed to support total electrical load due to the new traffic signal and safety lighting at the intersection. The electrical service will include two separate circuits for traffic signal and illumination. At the 60% field review meeting, the Engineer will coordinate with the City and local electric service provider to determine location of new electrical service.
 - iv. Phasing & Detection sheet will show the proposed phasing at each intersection. Phasing and signal-heads for left-turn movements will be designed in conformance with 2011 Texas MUTCD. Video detection details for each movement will also be shown.
 - v. APS load switch assignment sheet
 - vi. Quantities sheet will be provided for the intersection.
 - c. The Engineer will use latest general notes issued by the City and update appropriately as required for traffic signals.
 - d. Deliverables:
 - i. 60% Plans Submittal
 - 1. Existing Conditions
 - 2. Proposed Signal Layout
 - 3. Signal Elevation
 - 4. Opinion of Probably Construction Cost Estimate
 - ii. 95% Plans Submittal
 - 1. General Notes
 - 2. Proposed Signal Layout
 - 3. Signal Elevation
 - 4. Electrical Wiring
 - 5. Phasing and Detection
 - 6. Estimated Quantities
 - 7. City/TxDOT Standards (including Traffic Control Plans standards)
 - 8. Opinion of Probably Construction Cost Estimate
 - iii. Final Plans Submittal
 - 1. Address any comments to plan sheets from 90% submittal
 - 2. Issue signed and sealed plan sheets
 - 3. Final cost estimate

FC 163 - MISCELLANEOUS (ROADWAY)

1. TRAFFIC CONTROL

- a. Traffic Control Plans - The Engineer will develop Traffic Control Plans (TCP) for the Old Settlers Blvd Extension at N Red Bud Ln, Porano Circle, and CR 110 with accordance with the latest edition of the TMUTCD. The Engineer will:
 - i. Provide a written narrative of the construction sequencing and work activities per phase and determine the existing and proposed traffic control devices (regulatory signs, warning signs, guide signs, route markers, construction pavement markings, barricades, flag personnel, temporary traffic signals, etc.) to be used to handle traffic during each construction sequence.
 - ii. Develop each TCP to provide continuous, safe access to each adjacent property during all phases of construction and to preserve existing access. The Engineer shall notify the City in the event existing access must be eliminated and must receive approval from the City prior to any elimination of existing access.
 - iii. Prepare each TCP in coordination with the City. The TCP must include interim signing for every phase of construction. Interim signing must include regulatory, warning, construction, route, and guide signs. The Engineer shall interface and coordinate phases of work, including the TCP, with adjacent Engineers, which are responsible for the preparation of the PS&E for adjacent projects.
 - iv. Describe the type of work to be performed for each phase of sequence of construction and any special instructions (e.g. storm drain, culverts, bridges, railing, illumination, signals, retaining walls, signing, paving surface sequencing or concrete placement, ROW restrictions, utilities, etc.) that the contractor should be made aware to include limits of construction, obliteration, and shifting or detouring of traffic prior to the proceeding phase.
 - v. Include the work limits, the location of channelizing devices, positive barrier, location and direction of traffic, work area, stations, pavement markings, and other information deemed necessary for each phase of construction.
- b. Deliverables:
 - i. Traffic Control Plans (1"=50')
 - ii. Traffic Control Narrative
 - iii. Standard Sheets using City of Round Rock and/or TxDOT Standards

2. ILLUMINATION DESIGN

- a. Illumination Design Plans - The Engineer will develop illumination plans for continuous lighting along Old Settlers Blvd from N Red Bud Lane to CR 110. The Engineer will:
 - i. Coordinate with the City to confirm preference on height and aesthetics for the light poles.
 - ii. Develop a photometric model using lighting software AGi 32 to determine pole spacing such that minimum "Illuminance" requirements are satisfied per AASHTO guidelines.
 - iii. Conduct electrical and voltage drop calculations to determine wire and conduit sizes, and number and details of electrical services required along the project corridor.
 - iv. Coordinate with ONCOR and City staff to determine locations to draw power and set electrical services.
 - v. Prepare layout sheets at appropriate scale to show location of poles, conduits, and wiring. The plans will also include conduit and wire charts, details on electrical services, and quantity summaries.
 - vi. Develop opinion of probable construction cost (OPCC) at the 95% and prior to final PS&E submittal.

- b. Deliverables:
 - i. 60% Submittal – Photometric Layout
 - ii. 95% Plans Submittal
 - 1. Proposed Illumination Layout
 - 2. Electrical Wiring & Conduit Charts
 - 3. City/TxDOT Standards (including Traffic Control Plans standards)
 - 4. Quantity Summary Sheets
 - 5. Opinion of Probable Construction Cost Estimate
3. EROSION CONTROL
- a. The Engineer shall develop Storm Water Pollution Prevention (SW3P), on separate sheets from (but in conformance with) the TCP, to minimize potential impact to receiving waterways. The SW3P shall include text describing the plan, quantities, type, phase, and locations of erosion control devices and any required permanent erosion control.
 - b. The Engineer shall develop SW3P plans for Old Settlers Blvd, N Red Bud Ln, Porano Circle, and CR 110. This includes:
 - i. Proposed erosion control design
 - ii. Storm Water Pollution Prevention Plan (SW3P) sheets at 1"=50'
 - 3. Standard Sheets using City of Round Rock and/or TxDOT Standards
 - c. Deliverables:
 - i. SW3P Layout Sheets
 - ii. SW3P Standards
4. COMPUTE & TABULATE QUANTITIES
- a. The Engineer shall compute and tabulate quantities for all applicable pay items.
 - b. The Engineer shall document assumptions and calculations for each pay item.
 - c. Deliverables:
 - i. Quantity Summary Sheets
 - ii. Quantity Calculations and Assumptions
5. CONSTRUCTION COST ESTIMATE
- a. The Engineer shall provide a construction cost estimate with unit prices and bid schedule with each submittal (60%, 95%, and Final Plans).
 - b. The Engineer shall provide a basis of estimate to detail assumptions made for bid item prices and formulas used (if applicable) for each bid item.
 - c. Deliverables:
 - i. Construction Cost Estimate
 - ii. Basis of Estimate
6. SPECIFICATIONS & GENERAL NOTES
- a. The Engineer shall compile General Notes, Specifications and Special Provisions as needed.
 - b. The Engineer shall prepare the Project Manual (Bid Documents), including a signed & sealed Cover Page, Bid Addenda, Bid Form, Technical Specifications, Plan Drawings, and Geotechnical Report.
 - b. Deliverables:
 - i. General Notes Sheets
 - ii. List of applicable project Specifications and Special Provisions

FC 164 - PROJECT MANAGEMENT & ADMINISTRATION

1. PROJECT MANAGEMENT & ADMINISTRATION

- a. Meetings
 - i. The Engineer has provided for four design meetings and six stakeholder meetings at two hours each.
- b. General Contract Administration
 - i. Prepare invoices and monthly written progress reports for the project.
 - ii. Project coordination with the City to include documenting correspondence and meeting minutes.
 - iii. Project Coordination with Sub-Consultants to include documenting correspondence and meeting minutes.
 - iv. Prepare, distribute and file both written and electronic project correspondence.
 - v. Update project schedule as necessary.
 - vi. Direct Expenses for travel and copies is included in the fee.

FC 170 – STRUCTURAL

1. BRIDGE LAYOUT

- a. Bridge Layout - The Engineer shall comply with all relevant sections of the latest edition of the State's LRFD Bridge Design Manual, Bridge Project Development Manual, Bridge Detailing Guide and AASHTO LRFD Bridge Design Specifications and respective checklists to prepare Bridge Layout (1"=40' scale) and Typical Sections for approval before proceeding to detail design. Additional Bridge Layout requirements for waterway structures include:
 - i. Design and 100-year peak discharges
 - ii. Design and 100-year high water (HW) and any recorded HW data available
 - iii. Natural and through bridge velocities for design and 100-year floods
 - iv. Calculated backwater for design and 100-year floods
 - v. Direction of flow for waterway crossings
 - vi. Contours for water crossing
- b. Deliverables:
 - i. Bridge Layout Sheets

2. BRIDGE DETAILS & DESIGN

- a. Bridge Details & Design - The Engineer shall prepare final details and design calculations in accordance with standard requirements of the State as listed above. Specific bridge items relevant to this project include:
 - i. Soil boring data will be utilized for foundation design and details.
 - ii. Scour data will be incorporated in bent and foundation design.
 - iii. Deck drains, as necessary.
 - iv. Bridge lighting, as necessary.
 - v. Sidewalks or shared-use path shall be included along each side of the bridge. TxDOT combination bridge railing with a minimum height of 42" shall be selected for use.
 - vi. Non-standard bridge aesthetics are anticipated in lieu of standard TxDOT rectangular cap bents with circular columns. The level of effort in the detailing process is expected to be above that associated with a standard TxDOT bridge project. The Consultant will work with the City to develop the project aesthetic details.

vii. Applicable TxDOT Standards will be printed by the Consultant for inclusion in the plan set. (Any TxDOT Standards modified by the Consultant will be signed and sealed for the modification.)

- b. Deliverables:
- ii. Bridge Detail Sheets
 - iii. Bridge Standards

3. RETAINING WALLS

a. Retaining Walls - The Engineer shall prepare plans, details and standards for up to eight (8) retaining wall locations. Fill embankment MSE walls are anticipated along each side of each approach to the bridge. Other retaining wall types such as spread footing, soil nail, or drilled shaft will be considered as appropriate although not anticipated at this time. Typical retaining wall layout (1"=50' scale) requirements include:

i. Plan View

- 1. Designation of reference line
- 2. Beginning and ending retaining wall stations
- 3. Offset from reference line
- 4. Horizontal curve data
- 5. Total length of wall
- 6. Face of wall
- 7. All wall dimensions and alignment relations (alignment data as necessary)
- 8. Soil boring locations
- 9. Drainage, signing, lighting, etc. that is mounted on or passing through the wall.
- 10. Subsurface drainage structures or utilities which could be impacted by wall construction.

ii. Elevation View

- 1. Top of wall elevations
- 2. Existing and finished ground line elevations
- 3. Vertical limits of measurement for payment
- 4. Type, limits and anchorage details of railing (only if Traffic Railing foundation standard is not being used on this project)
- 5. Top and bottom of wall profiles plotted at correct station & elevation.
- 6. Retaining Wall Details: As required for non-standard elements such as drilled shaft wall details or transitions from one wall type to another.
- 7. Retaining Wall Aesthetic details: The Engineer shall provide details for, but not limited to, coping, fascia, rip rap and railings.
- 8. Limits of temporary shoring.
- 9. Underdrains
- 10. Soil improvement, if applicable.
- 11. Drainage, signing, lighting, etc. as noted above
- 12. Drainage structures and utilities as noted above

iii. Typical Section

- 1. Reinforced Volume
- 2. Underdrain location
- 3. Soil improvements, if applicable.

- b. Deliverables:
- i. Retaining Wall Layouts

- ii. Retaining Wall Standards

FC 309 – CONSTRUCTION PHASE SERVICES

1. CONSTRUCTION PHASE SERVICES

- a. The Engineer shall provide Construction Phase Services at the written request of the City's Project Manager. The written request shall include a description of the work requested, a mutually agreed upon time limit, and any special instructions for coordination and submittal. These services shall include, but are not limited to the following:
 - i. Review and approval of Contractor Submittals, shop drawings, and forming details.
 - ii. Attend pre-construction and pre-bid meetings.
 - iii. Attend up to three (3) field meetings to discuss pole locations.
 - iv. Respond to requests for information (RFIs).
 - v. Provide clarification as requested.
 - vi. Provide corrected plans for any Change Orders.
 - vii. Provide as-built plans upon completion of the project.
 - viii. Review signal timing plans during construction.

SUMMARY OF DELIVERABLES

1. FC 110 – ROUTE DESIGN & STUDIES

- a. Design Concept Conference Notes for approval
- b. Design Summary Report (DSR)
- c. Signed/Sealed Geotechnical Report
- d. Boring Logs
- e. Updated Signal Warrant Technical Memo

2. FC 130 – RIGHT OF WAY DATA

- a. Legal description for each parcel (signed and sealed). Up to six (5) exhibits.
- b. Survey plat on 8 1/2"x11" for each parcel (signed and sealed).
- c. Area computation sheets for legal descriptions and plats and ROW maps for all parcels.
- d. SUE plan sheets
- e. Test Hole Data
- f. Utility Contact List
- g. Utility Conflict Matrix Spreadsheet
- h. Utility Conflict Layout Exhibits
- i. Utility Meeting Minutes
- j. Utility Certificates
- k. Electronic CAD Files

3. FC 131 – UTILITIES

- a. Project Layout
- b. Utility/Project Specific Notes
- c. Utility Plan & Profile Sheets
- d. Standard Detail Sheets
- e. Special Detail Sheets (as necessary)

4. FC 150 – SURVEY

- a. Signed Right of Entry forms if ROE is acquired
- b. Reference Deeds, support documents, scanned and in .pdf format.
- c. Control Layout index map
- d. Horizontal and Vertical Control Sheet
- e. Survey Control Sheet
- f. Control Point Data Sheet
- g. 3D & 2D Topo (.dgn) processed files in MicroStation/GeoPak SS10, with all chains and points included on the 30% existing survey.

5. FC 160 – ROADWAY DESIGN CONTROLS

- a. Title Sheet
- b. Index of Sheets
- c. Project Layout Sheets
- d. Typical Section Sheets
- e. General Notes Sheet
- f. Removal Layout Sheets
- g. Horizontal Alignment Data Sheets
- h. Roadway Plan & Profile Sheets
- i. Intersection Layout Sheets
- j. Proposed Grading Sheets
- k. Roadway, Sidewalk, & Driveway Detail Sheets
- l. Roadway Standards

6. FC 161 – DRAINAGE

- a. Existing and proposed drainage area maps including hydrology calculations (25 and 100-YR events)
- b. Storm drain plan and profile to include 25 and 100-YR HGL & Q,V,D calcs per conduit link
- c. Lateral profiles to include 25 and 100-YR HGL & Q,V,D calcs per conduit link
- d. Hydraulic calculation sheets (25 and 100-YR storm events)
- e. Inlet calculation sheet(s) (25 and 100-YR events)
- f. Standard detail sheets
- g. Custom detail sheet(s), as necessary
- h. Proposed culvert extension plan and profile, calculations, and construction details.
- i. Quantity Summary Sheet
- j. Cost Estimate

7. FC 162 – SIGNING, PAVEMENT MARKINGS, & SIGNALS

- a. Signing & Pavement Marking Layout Sheets
- b. Small Sign Details
- c. Summary of Small Signs Sheet
- d. Signing & Pavement Marking Standards
- e. Existing & Proposed Signal Layout Sheets

8. FC 163 – MISCELLANEOUS (ROADWAY)

- a. Traffic Control Narrative
- b. Traffic Control Plan Sheets

- c. Traffic Control Standards
- d. Illumination Layout Sheets
- e. Illumination Standards
- f. Electrical Wiring & Conduit Charts
- g. Erosion Control Sheets
- h. Erosion Control Standards
- i. Quantity Summary Sheets
- j. Construction Cost Estimate
- k. Basis of Estimate
- l. List of applicable Project Specifications
- m. Project Manual

9. FC 164 – PROJECT MANAGEMENT & ADMINISTRATION

- a. Monthly Progress Report and Invoices
- b. Project Documentation and Meeting Minutes

10. FC 170 – STRUCTURAL

- a. Bridge Layout Sheets
- b. Bridge Detail Sheets
- c. Bridge Standards
- d. Retaining Wall Layouts
- e. Retaining Wall Standards

11. FC 309 – CONSTRUCTION SERVICES

- a. Bridge Layout Sheets
- b. Bridge Detail Sheets
- c. Bridge Standards

ADDENDUM TO EXHIBIT C
Work Schedule

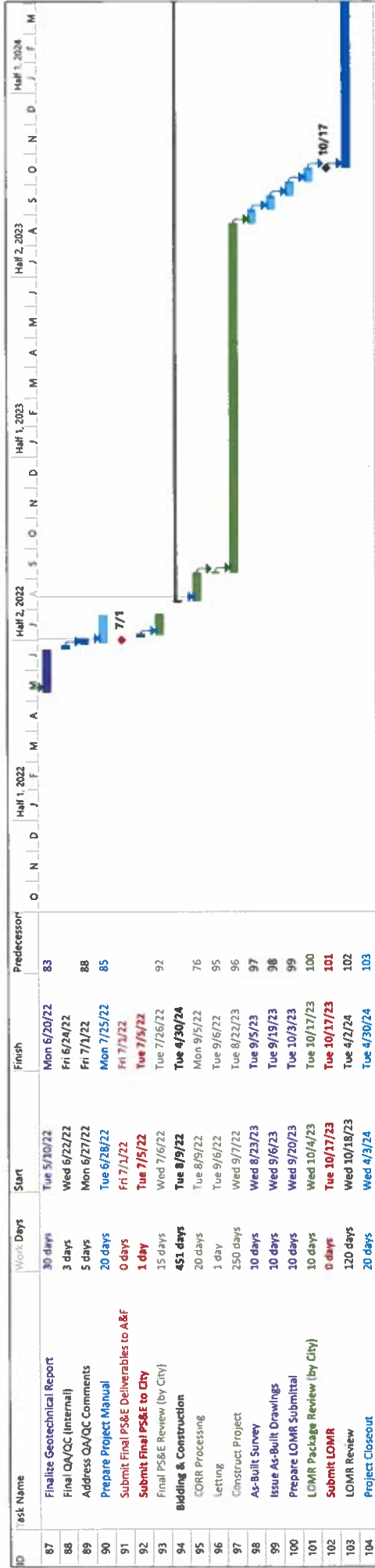
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APPENDUM TO EXHIBIT C - SWA01



ID	Task Name	Work Days	Start	Finish	Predecessor
1	Old Settlers Preliminary Design Schedule	389 days	Thu 2/27/20	Thu 8/26/21	
45	Old Settlers PS&E Design and Construction Schedule	653 days	Tue 11/2/21	Tue 4/30/24	
46	Project Setup	7 days	Tue 11/2/21	Wed 11/20/21	
47	NTP for SWA02	0 days	Tue 11/2/21	Tue 11/2/21	47
48	Project setup & subcontract agreements	7 days	Tue 11/2/21	Wed 11/10/21	47
49	Supplemental Survey	30 days	Thu 11/11/21	Wed 12/22/21	48
50	Mobilization	5 days	Thu 11/11/21	Wed 11/17/21	48
51	Field work	15 days	Thu 11/18/21	Wed 12/8/21	50
52	Processing	10 days	Thu 12/9/21	Wed 12/22/21	51
53	ROW	20 days	Tue 11/23/21	Mon 12/20/21	57
54	Prepare ROW Documents	20 days	Tue 11/23/21	Mon 12/20/21	57
55	60% PS&E	90 days	Tue 11/2/21	Mon 3/7/22	
56	60% design	35 days	Tue 11/2/21	Mon 12/20/21	47
57	Finalize easement limits	15 days	Tue 11/2/21	Mon 11/22/21	47
58	Design Concept Conference	0 days	Mon 11/22/21	Mon 11/22/21	57
59	Update Signal Warrant Tech Memo	30 days	Thu 11/11/21	Wed 12/22/21	48
60	Geotechnical Field Work	8 days	Thu 11/11/21	Mon 11/22/21	48
61	Geotechnical Laboratory Testing	20 days	Thu 12/2/21	Mon 12/29/21	60
62	Update Geotechnical Report	5 days	Thu 12/30/21	Wed 1/5/22	61
63	Update Environmental Reports	23 days	Tue 11/23/21	Thu 12/23/21	57
64	60% QA/QC (Internal)	3 days	Tue 1/4/22	Thu 1/6/22	
65	Address QA/QC Comments	5 days	Fri 1/7/22	Thu 1/13/22	64
66	Submit 60% PS&E Deliverables to A&F	0 days	Fri 1/14/22	Fri 1/14/22	
67	Submit 60% PS&E to City	0 days	Tue 1/18/22	Tue 1/18/22	
68	60% PS&E Review (by City)	15 days	Tue 1/18/22	Mon 2/7/22	67
69	Finalize Bridge Design/H&H	10 days	Tue 2/8/22	Mon 2/21/22	68
70	Finalize Environmental Reports	30 days	Tue 2/8/22	Mon 2/21/22	68
71	Flood Plain Study	10 days	Tue 2/22/22	Mon 3/7/22	69
72	CLOMR	110 days	Tue 3/8/22	Mon 8/8/22	
73	Prepare CLOMR Submittal	10 days	Tue 3/8/22	Mon 3/21/22	71
74	CLOMR Package Review (by City)	10 days	Tue 3/22/22	Mon 4/4/22	73
75	Submit CLOMR to FEMA	0 days	Mon 4/4/22	Mon 4/4/22	74
76	CLOMR Review	90 days	Tue 4/5/22	Mon 8/8/22	75
77	95% PS&E	65 days	Tue 2/8/22	Mon 5/9/22	68
78	95% design	40 days	Tue 2/8/22	Mon 4/4/22	68
79	95% QA/QC (Internal)	3 days	Tue 4/5/22	Thu 4/7/22	
80	Address QA/QC Comments	5 days	Fri 4/8/22	Thu 4/14/22	79
81	Submit 95% PS&E Deliverables to A&F	0 days	Fri 4/15/22	Fri 4/15/22	
82	Submit 95% PS&E to City	0 days	Tue 4/19/22	Tue 4/19/22	
83	95% PS&E Review (by City)	15 days	Tue 4/19/22	Mon 5/9/22	82
84	Final PS&E	56 days	Tue 5/10/22	Tue 7/26/22	83
85	Final design	35 days	Tue 5/10/22	Mon 6/27/22	83
86	Finalize Drainage Report	30 days	Tue 5/10/22	Mon 6/20/22	83

APPENDUM TO EXHIBIT C - SWA01



PROJECT NAME: OLD SETTLERS EXTENSION

TASK	TOTAL LABOR HOURS	TOTAL PRIME LOADED LABOR COST	OTHER DIRECT COSTS	SUBCONSULTANTS	TOTALS
FC 110	194	\$3,900.00		\$21,964.40	\$25,864.40
FC 120	92			\$9,470.00	\$9,470.00
FC 130	787	\$3,780.00		\$113,437.00	\$117,217.00
FC 131	275			\$40,501.00	\$40,501.00
FC 150	171			\$24,260.00	\$24,260.00
FC 160	975	\$107,880.00			\$107,880.00
FC 161	1204			\$164,270.00	\$164,270.00
FC 162	353	\$19,820.00		\$26,490.00	\$46,310.00
FC 163	693	\$62,380.00		\$26,545.00	\$88,925.00
FC 164	311	\$37,520.00		\$20,836.60	\$58,356.60
FC 170	1236	\$175,845.00			\$175,845.00
FC 309	198	\$14,660.00		\$14,980.00	\$29,640.00
ODEs			\$46,380.70		\$46,380.70
GRAND TOTAL:	6489	\$425,785.00	\$46,380.70	\$462,754.00	\$934,919.70

PROJECT: OLD SETTLERS EXTENSION
 METHOD OF PAYMENT: LUMP SUM
 PRIME PROVIDER: AGUIRRE & FIELDS, LP

COMPANY	FEE	% OF TOTAL FEE
AGUIRRE & FIELDS, LP	\$426,470.80	46%
HALFF ASSOCIATES	\$399,744.00	43%
FORESIGHT, PES	\$20,747.60	2%
KIMLEY HORN	\$74,788.10	8%
CD&P	\$13,169.20	1%
TOTAL	\$934,919.70	100.00%

FUNCTION CODE	TASK NAME	AFLP	HALFF	FORESIGHT	KIMLEY HORN	CD&P	TOTAL
FC 110	ROUTE & DESIGN STUDIES	\$3,900.00		\$13,804.40	\$8,160.00		\$25,864.40
FC 120	PUBLIC INVOLVEMENT					\$9,470.00	\$9,470.00
FC 130	RIGHT OF WAY DATA	\$3,780.00	\$113,437.00				\$117,217.00
FC 131	UTILITIES		\$40,501.00				\$40,501.00
FC 150	SURVEY		\$24,260.00				\$24,260.00
FC 160	ROADWAY DESIGN CONTROLS	\$107,880.00					\$107,880.00
FC 161	DRAINAGE		\$164,270.00				\$164,270.00
FC 162	SIGNING, PAVEMENT MARKINGS, & SIGNALS	\$19,820.00			\$26,490.00		\$46,310.00
FC 163	MISCELLANEOUS (ROADWAY)	\$62,380.00			\$26,545.00		\$88,925.00
FC 164	PROJECT MANAGEMENT & ADMINISTRATION	\$37,520.00	\$9,396.00	\$2,690.60	\$5,600.00	\$3,150.00	\$58,356.60
FC 170	STRUCTURAL	\$175,845.00					\$175,845.00
FC 309	CONSTRUCTION PHASE SERVICES	\$14,660.00	\$8,130.00		\$6,850.00		\$29,640.00
ODEs	OTHER DIRECT EXPENSES	\$685.80	\$39,750.00	\$4,252.60	\$1,143.10	\$549.20	\$46,380.70
	TOTAL	\$426,470.80	\$399,744.00	\$20,747.60	\$74,788.10	\$13,169.20	\$934,919.70

ADDENDUM TO EXHIBIT D - SWA 01
FEE SCHEDULE
AGUIRRE & FIELDS, LP

AGUIRRE & FIELDS, LP
CONTRACT:
SWA 01 TO WA 01

PRIME PROVIDER NAME: AGUIRRE & FIELDS, LP

TASK DESCRIPTION	PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEER TECHNICIAN	CADD OPERATOR	ADMIN / CLERICAL	TOTAL LABOR HOURS & COSTS
PC 110 - ROUTE & DESIGN STUDIES							
DATA COLLECTION & FIELD RECONNAISSANCE		4	2				6
REVIEW AS BUILT & CITY PROVIDED PLANS	1	2	2	2			7
REVIEW SUPPLEMENTAL SURVEY	2	2	2				6
SITE VISIT & FIELD RECONNAISSANCE							
DESIGN CRITERIA							
DESIGN CONCEPT CONFERENCE	2	2					4
DESIGN SUMMARY REPORT	1	2					3
HOURS SUB-TOTALS	6	12	6	2	0	0	26
CONTRACT RATE PER HOUR	\$200.00	\$150.00	\$110.00	\$120.00	\$80.00	\$80.00	
TOTAL LABOR COSTS	\$1,200.00	\$1,800.00	\$660.00	\$240.00	\$0.00	\$0.00	\$3,900.00
% DISTRIBUTION OF STAFFING	23.1%	46.2%	23.1%	7.7%	0.0%	0.0%	
SUBTOTAL (PC 110)							
\$3,900.00							

TASK DESCRIPTION	PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEER TECHNICIAN	CADD OPERATOR	ADMIN / CLERICAL	TOTAL LABOR HOURS & COSTS
PC 130 - RIGHT OF WAY DATA							
RIGHT OF WAY MAP							
FINALIZE PROPOSED RIGHT OF WAY & CONSTRUCTION EASEMENTS	1	4	4				9
REVIEW SURVEY ROW DOCUMENTS	2	2					4
REVIEW UTILITY CONFLICTS & COORDINATE W/CITY	4	4	4				12
HOURS SUB-TOTALS	7	10	8	0	0	0	25
CONTRACT RATE PER HOUR	\$200.00	\$150.00	\$110.00	\$120.00	\$80.00	\$80.00	
TOTAL LABOR COSTS	\$1,400.00	\$1,500.00	\$880.00	\$0.00	\$0.00	\$0.00	\$3,780.00
% DISTRIBUTION OF STAFFING	28.0%	40.0%	32.0%	0.0%	0.0%	0.0%	
SUBTOTAL (PC 130)							
\$3,780.00							

ADDENDUM TO EXHIBIT D - SWA 01
FEE SCHEDULE
AGUIRRE & FIELDS, LP

AGUIRRE & FIELDS, LP
CONTRACT:
SWA 01 TO WA 01

PRIME PROVIDER NAME: AGUIRRE & FIELDS, LP

TASK DESCRIPTION	PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEER TECHNICIAN	CADD OPERATOR	ADMIN/ CLERICAL	TOTAL LABOR HOURS & COSTS
PC 160 - ROADWAY DESIGN CONTROLS							
ROADWAY DESIGN	2	14	24				40
HORIZONTAL DESIGN	2	14	40				40
VERTICAL DESIGN	4	24	32	8	8		76
REVIEW/INCORPORATE ADJACENT PROJECT DESIGN (60%, 95%, & FINAL)		40	40				80
3D OPENROADS MODEL	1	12	30	4	32		79
PROPOSED CROSS SECTIONS (50' INTERVALS)							
CROSS SECTION UPDATES (95% & FINAL)	1	12	30	4	32		79
PLAN SET DRAFTING							
PROJECT TITLE SHEET	1	1	2		8		12
INDEX	1	1	4		8		14
PROJECT LAYOUT (1"=200')	1	1	4		8		13
PROPOSED & EXISTING TYPICAL SECTIONS	1	4	24		48		77
REMOVAL LAYOUT (1"=50')	2	2	8		24		34
HORIZONTAL ALIGNMENT DATA	1	1	4		4		9
ROADWAY PLAN & PROFILE (1"=50')	2	2	22		48		84
INTERSECTION LAYOUT (1"=20')	1	24	24		51		103
PROPOSED GRADING (1"=50')	1	8	12		32		53
ROADWAY SIDEWALK & DRIVEWAY DETAILS	1	8	8		8		49
ROADWAY STANDARDS	1	2	2		12		17
PREPARE/ASSEMBLE PS&E (60%, 95%, & FINAL)	2	12	24	6	32		76
QA/QC							
PERFORM QA/QC FOR SUBMITTALS (60%, 95%, & FINAL)	12	40	40				92
HOURS SUB-TOTALS	33	200	368	22	352	0	975
CONTRACT RATE PER HOUR	\$200.00	\$150.00	\$110.00	\$120.00	\$80.00	\$60.00	\$107,880.00
TOTAL LABOR COSTS	\$6,600.00	\$30,000.00	\$40,480.00	\$2,640.00	\$28,160.00	\$0.00	\$107,880.00
% DISTRIBUTION OF STAFFING	3.4%	20.5%	37.7%	2.3%	36.1%	0.0%	
SUBTOTAL (FC 160)							\$107,880.00

TASK DESCRIPTION	PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEER TECHNICIAN	CADD OPERATOR	ADMIN/ CLERICAL	TOTAL LABOR HOURS & COSTS
PC 162 - SIGNING, PAVEMENT MARKINGS, & SIGNALS							
SIGNING & PAVEMENT MARKINGS	1	24	40		56		121
SMALL SIGN DETAILS	1	4	16	8			37
SUMMARY OF SMALL SIGNS	1	4	4		2		11
SIGNING & PAVEMENT MARKING STANDARDS	1	2	4		8		15
HOURS SUB-TOTALS	4	34	64	8	74	0	184
CONTRACT RATE PER HOUR	\$200.00	\$150.00	\$110.00	\$120.00	\$80.00	\$60.00	\$19,820.00
TOTAL LABOR COSTS	\$800.00	\$5,100.00	\$7,040.00	\$960.00	\$5,920.00	\$0.00	\$19,820.00
% DISTRIBUTION OF STAFFING	1.9%	16.3%	30.8%	3.8%	35.6%	0.0%	
SUBTOTAL (FC 162)							\$19,820.00

ADDENDUM TO EXHIBIT D - SWA 01
FEE SCHEDULE
AGUIRRE & FIELDS, LP

AGUIRRE & FIELDS, LP
CONTRACT:
SWA 01 TO WA 01

PRIME PROVIDER NAME: AGUIRRE & FIELDS, LP

TASK DESCRIPTION	PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEER TECHNICIAN	CADD OPERATOR	ADMIN / CLERICAL	TOTAL LABOR HOURS & COSTS
2C.183 - PARCELLARIES (ROADWAY)							
TRAFFIC CONTROL							
TRAFFIC CONTROL NARRATIVE	2	4	4		4		14
TRAFFIC CONTROL LAYOUT (1"=50')	1	16	40		48		105
TCP STANDARDS	1	2	8		4		15
EROSION CONTROL							
SWP3 LAYOUT (1"=50')	1	16	32		48		97
SWP3 STANDARDS		2	8		4		14
COMPUTE & TABULATE QUANTITIES							
COMPUTE TCP QUANTITIES (60%, 95%, & FINAL)	1	4	8				13
DEVELOP TCP SUMMARY SHEETS		4	4		4		12
COMPLETE REMOVAL QUANTITIES (60%, 95%, & FINAL)		4	4				8
DEVELOP REMOVAL SUMMARY SHEETS		4	4		4		12
COMPUTE ROADWAY QUANTITIES (60%, 95%, & FINAL)	1	4	24				29
DEVELOP ROADWAY SUMMARY SHEETS		4	8		4		16
COMPUTE SIGNING & PAVEMENT MARKING QUANTITIES (60%, 95%, & FINAL)	1	4	12				16
DEVELOP SIGNING & PAVEMENT MARKING SUMMARY SHEETS		4	4		4		13
COMPUTE SWP3 QUANTITIES (60%, 95%, & FINAL)	1	4	8				13
DEVELOP SWP3 SUMMARY SHEETS		4	4		4		12
CONSTRUCTION COST ESTIMATE (60%, 95%, & FINAL)							
COST ESTIMATE	6	16	24				46
BASIS OF ESTIMATE	2	4	4				10
SPECIFICATIONS & GENERAL NOTES							
SPECIFICATIONS & SPECIAL PROVISIONS	4	6	4				14
GENERAL NOTES	4	4	4				12
PREPARE PROJECT MANUAL	6	32	16				54
HOURS SUB-TOTALS	31	142	224	0	128	0	525
CONTRACT RATE PER HOUR	\$200.00	\$150.00	\$110.00	\$120.00	\$80.00	\$80.00	\$62,380.00
TOTAL LABOR COSTS	\$6,200.00	\$21,300.00	\$24,640.00	\$0.00	\$10,240.00	\$0.00	\$62,380.00
% DISTRIBUTION OF STAFFING	14.9%	68.3%	107.7%	0.0%	61.5%	0.0%	
SUBTOTAL (PG.163)							\$62,380.00

ADDENDUM TO EXHIBIT D - SWA 01
FEE SCHEDULE
AGUIRRE & FIELDS, LP

AGUIRRE & FIELDS, LP
CONTRACT:
SWA 01 TO WA 01

PRIME PROVIDER NAME: AGUIRRE & FIELDS, LP

TASK DESCRIPTION	PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEER TECHNICIAN	CADD OPERATOR	ADMIN / CLERICAL	TOTAL LABOR HOURS & COSTS
FC 164 - PROJECT MANAGEMENT & ADMINISTRATION							
GENERAL ADMINISTRATION	86	14					70
PROJECT MANAGEMENT & COORDINATION WITH CORR (14 MONTHS)	56	14					70
PREPARE INVOICES & MONTHLY PROJECT PROGRESS REPORTS (14 MONTHS)	14					14	28
ATTEND & PREPARE FOR FOUR (4) DESIGN MEETINGS	8	8					16
ATTEND & PREPARE FOR UP TO SIX (6) STAKEHOLDER MEETINGS	12	12					24
HOURS SUB-TOTALS	146	48	0	0	0	14	208
CONTRACT RATE PER HOUR	\$200.00	\$150.00	\$110.00	\$120.00	\$80.00	\$80.00	
TOTAL LABOR COSTS	\$29,200.00	\$7,200.00	\$0.00	\$0.00	\$0.00	\$1,120.00	\$37,520.00
% DISTRIBUTION OF STAFFING	70.2%	23.1%	0.0%	0.0%	0.0%	6.7%	
SUBTOTAL (FC 164)							\$37,520.00

PRIME PROVIDER NAME: AGUIRRE & FIELDS, LP

TASK DESCRIPTION	SENIOR STRUCTURAL ENGINEER	STRUCTURAL ENGINEER	ENGINEER IN TRAINING	TECH	CADD OPERATOR	ADMIN / CLERICAL	TOTAL LABOR HOURS & COSTS
FC 170 - STRUCTURAL							
BRIDGE LAYOUT	12	22	22	8	8		72
BRIDGE LAYOUTS (1"=40' scale) (EB & WB Bridges) (60%, 95%, FINAL)							
BRIDGE TYPICAL SECTIONS (EB & WB Bridges) (60%, 95%, FINAL)	2	12	10	4	4		32
BRIDGE BORING LOG SHEETS (95%, FINAL)	1	9	8	3	3		24
BRIDGE DETAILS & DESIGN							
ESTIMATED BRIDGE QUANTITY SUMMARY & BEARING SEAT ELEVATIONS (60%, 95%, FINAL)	6	28	22	8	8		72
ABUTMENT DETAILS (60%, 95%, FINAL)	22	58	44	15	15		144
BENT DETAILS (60%, 95%, FINAL)	12	58	44	15	15		144
FRAMING PLAN (60%, 95%, FINAL)	4	16	4	4	4		40
PRESTR. CONCRETE GIRDER UNIT PLAN (60%, 95%, FINAL)	6	24	18	6	6		60
PRESTR. CONCRETE GIRDER UNIT TYPICAL SECTION (60%, 95%, FINAL)	6	24	18	6	6		60
BRIDGE AESTHETIC DETAILS (95%, FINAL)	3	14	4	4	4		36
GRID DETAILS & GRID DESIGN (60%, 95%, FINAL)	2	12	10	4	4		32
PREPARE TxDOT STANDARDS	3	9	6	3	3		24
REVIEW GENERAL NOTES, SPECIFICATIONS & PROVISIONS	4	6	10				20
COST ESTIMATES (60%, 95%, Final)	2	4	10				16
COMMENT RESPONSES (60%, 95%)	8						8
REVIEW MEETINGS (60%, 95%)	8						8
QA/QC FOR 60%, 95% & FINAL SUBMITTALS	20	40					60
PREPARE FINAL BRIDGE CALCULATIONS PDF	2	4	10				16
PRE-BID & PRE-CONSTRUCTION MEETINGS	8						8
RETAINING WALLS							
WALL ALIGNMENT DATA SHEETS	1	9	8	3	3		24
WALL LAYOUTS (1"=40' scale) (60%, 95%, FINAL)	14	58	44	14	14		144
WALL TYPICAL SECTIONS (60%, 95%, FINAL)	5	19	14	5	5		48
BORING LOG SHEETS (95%, FINAL)	1	9	8	3	3		24
WALL AESTHETIC DETAILS (95%, FINAL)	3	14	11	4	4		36
ESTIMATED SUMMARY OF RETAINING WALLS	3	14	11	4	4		36
PWIMASE(DD) DESIGN DATA (Requires Coordination with Geotech) (95%, FINAL)	1	9	8	3	3		24
PREPARE TxDOT STANDARDS	3	9	6	3	3		24
HOURS SUB-TOTALS	152	481	368	119	119	0	1236
CONTRACT RATE PER HOUR	\$210.00	\$160.00	\$115.00	\$125.00	\$85.00	\$80.00	\$175,845.00
TOTAL LABOR COSTS	\$31,920.00	\$76,960.00	\$41,975.00	\$14,875.00	\$10,115.00	\$0.00	\$175,845.00
% DISTRIBUTION OF STAFFING	12.3%	38.5%	29.5%	9.6%	9.6%	0.0%	
SUBTOTAL (FC 170)							\$175,845.00

ADDENDUM TO EXHIBIT D - SWA 01
FEE SCHEDULE
AGUIRRE & FIELDS, LP

AGUIRRE & FIELDS, LP
CONTRACT:
SWA 01 TO WA 01

PRIME PROVIDER NAME: AGUIRRE & FIELDS, LP

TASK DESCRIPTION	PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEER TECHNICIAN	CADD OPERATOR	ADMIN / CLERICAL	TOTAL LABOR HOURS & COSTS
FC 309 - CONSTRUCTION PHASE SERVICES							
CONSTRUCTION SERVICES							
ATTEND PRE-CONSTRUCTION & PRE-BID MEETINGS	6	6					12
REVIEW/APPROVAL OF SHOP DRAWINGS (beams, panels, joints, forms, MSC wall)	6	24					30
RESPOND TO REQUESTS FOR INFORMATION (RFIs)	4	16	8				28
PROVIDE CLARIFICATION AS REQUESTED	4	4	8				16
FINAL WALK THROUGH & PUNCH LIST	4	4					8
HOURS SUB-TOTALS	24	54	16	0	0	0	94
CONTRACT RATE PER HOUR	\$200.00	\$150.00	\$110.00	\$120.00	\$80.00	\$80.00	\$80.00
TOTAL LABOR COSTS	\$4,800.00	\$8,100.00	\$1,760.00	\$0.00	\$0.00	\$0.00	\$14,660.00
% DISTRIBUTION OF STAFFING	11.5%	26.0%	7.7%	0.0%	0.0%	0.0%	
SUBTOTAL (FC 309)							\$14,660.00

DESCRIPTION	TOTAL MIN BY FC	TOTAL COSTS BY FC
FC 110 - ROUTE & DESIGN STUDIES	26	\$3,900.00
FC 130 - RIGHT OF WAY DATA	25	\$3,780.00
FC 160 - ROADWAY DESIGN CONTROLS	975	\$107,880.00
FC 162 - SIGNING, PAVEMENT MARKINGS, & SIGNALS	184	\$19,820.00
FC 163 - MISCELLANEOUS (ROADWAY)	525	\$62,380.00
FC 164 - PROJECT MANAGEMENT & ADMINISTRATION	208	\$37,520.00
FC 170 - STRUCTURAL	1235	\$175,845.00
FC 309 - CONSTRUCTION PHASE SERVICES	94	\$14,660.00
SUBTOTAL LABOR EXPENSES	3273	\$425,785.00

DIRECT EXPENSES	UNIT	# OF UNITS	COST/UNIT
Mileage (18 miles RT x 10 trips)	mile	180	50.56
Photocopies B/W (8 1/2" X 11")	each	200	50.15
Photocopies B/W (11" X 17") 60%, 95%, FINAL Submittal (up to 300 sheets each)	each	1800	50.25
Plotting (color on bond Exhibits) (36" x 60")	sf	60	1.75
SUBTOTAL DIRECT EXPENSES			\$685.80

SUMMARY	TOTAL COSTS FOR PRIME ONLY
TOTAL COSTS FOR PRIME ONLY	\$425,785.00
NON-SALARY (OTHER DIRECT EXPENSES) FOR PRIME ONLY	\$685.80
GRAND TOTAL FOR PRIME	\$426,470.80

ADDENDUM TO EXHIBIT D - SWA 01
FEE SCHEDULE
AGUIRRE & FIELDS, LP

AGUIRRE & FIELDS, LP
CONTRACT:
SWA 01 TO WA 01

SUB PROVIDER NAME: HALFF ASSOCIATES

TASK DESCRIPTION	SENIOR RPLS	SURVEY TECH	2-MAN SURVEY CREW	UTILITY COORDINATOR	SUE CREW MANAGER	2 PER SUE / SURVEY CREW	CADD/GIS TECH	CONTRACT ADMIN SPECIALIST	ADMIN ASSISTANT	TOTAL LABOR HOURS & COSTS
PC 130 - RIGHT OF WAY DATA										
RIGHT OF WAY VERIFICATION	8	16	20							44
RIGHT OF WAY DESCRIPTIONS/CHIRTS (H)	12	96								108
RIGHT OF WAY MONUMENTATION (E30)	2	16	40							58
QA/QC/FINAL DELIVERABLES	8	4								12
HOURS SUB-TOTALS	30	132	60							222
CONTRACT RATE PER HOUR	\$190.00	\$120.00	\$170.00							
TOTAL LABOR COSTS	\$5,700.00	\$15,840.00	\$10,200.00							\$31,740.00
% DISTRIBUTION OF STAFFING	13.3%	59.5%	27.0%							
SUBTOTAL (FC 130)										\$31,740.00

TASK DESCRIPTION	SENIOR ENGINEER	UTILITY MANAGER	UTILITY COORDINATOR	SUE CREW MANAGER	2 PER SUE / SURVEY CREW	CADD/GIS TECH	CONTRACT ADMIN SPECIALIST	ADMIN ASSISTANT	TOTAL LABOR HOURS & COSTS
PC 130 - RIGHT OF WAY DATA									
SUBSURFACE UTILITY ENGINEERING (SUE)									
SUE LVL B	4	1	7	10	10	8	1	2	36
SUE LVL A (LABOR ONLY)	2			16	4				24
[SEE DIRECT EXPENSES FOR TEST HOLE, PERMIT & TRAFFIC CONTROL RELATED TO LVL A SUE]									
HOURS SUB-TOTALS	6	1	2	26	14	8	1	2	60
CONTRACT RATE PER HOUR	\$195.00	\$215.00	\$160.00	\$150.00	\$170.00	\$95.00	\$85.00	\$65.00	\$8,960.00
TOTAL LABOR COSTS	\$1,170.00	\$215.00	\$320.00	\$3,900.00	\$2,380.00	\$760.00	\$85.00	\$130.00	\$8,960.00
% DISTRIBUTION OF STAFFING	10.0%	1.7%	3.3%	43.3%	23.3%	13.3%	1.7%	3.3%	
SUBTOTAL (FC 130)									\$8,960.00

ADDENDUM TO EXHIBIT D - SWA 01
FEE SCHEDULE
AGUIRRE & FIELDS, LP

AGUIRRE & FIELDS, LP
CONTRACT:
SWA 01 TO WA 01

SUB PROVIDER NAME: HALFF ASSOCIATES

TASK DESCRIPTION	SENIOR PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	GRADUATE ENGINEER (EIT)	UTILITY MANAGER	UTILITY COORDINATOR	CADD/GIS TECH	ADMIN ASSISTANT	TOTAL LABOR HOURS & COSTS
FC 130 - BIGHT OF WAY DATA									
UTILITY COORDINATION (UC)	4	4			4	4	4		20
INITIAL PROJECT PLANNING					8	80			104
COORDINATION ACTIVITIES & MEETINGS				16	1	16			37
ISSUE NO/PC/ RECEIVE NO/PC RESPONSES				16	4	80	24		124
CONFLICT ANALYSIS & UCM & EXHIBITS - EXTERNAL ENTITIES					2	48			48
REVIEW OF UTILITY'S PROPOSED ADJUSTMENTS/COORDINATE COMPLIANCE				16	2	6			24
ISSUE NO/PC/RECEIVE NO/PC RESPONSES				8	2	8	20		46
PREPARE PROPOSED UTILITY LAYOUT MODEL					4	24			26
UTILITY CERTIFICATION / SPECIAL PROVISIONS	2				4	36			40
REVIEW OF FINAL RELOCATION PLANS & PERMITS	1			10	4	8	6	2	31
CLOSE OUT									
HOURS SUB-TOTALS	7	4	10	66	29	308	54	2	480
CONTRACT RATE PER HOUR	\$250.00	\$195.00	\$171.00	\$117.00	\$215.00	\$160.00	\$95.00	\$45.00	
TOTAL LABOR COSTS	\$1,750.00	\$780.00	\$1,710.00	\$7,722.00	\$6,235.00	\$49,280.00	\$5,130.00	\$130.00	\$72,737.00
% DISTRIBUTION OF STAFFING	1.5%	0.8%	2.1%	13.8%	6.0%	64.2%	11.3%	0.4%	
SUBTOTAL (FC 130)									\$72,737.00

TASK DESCRIPTION	SR REVIEW ENGINEER	SENIOR ENGINEER	GRADUATE ENGINEER (EIT)	SENIOR SURVEY MGR RPLS	SURVEY TECHNICIAN	CADD/GIS TECH	CONTRACT ADMIN SPECIALIST	ADMIN ASSISTANT	TOTAL LABOR HOURS & COSTS
FC 131 - UTILITIES									
UTILITIES									
WATERLINE DESIGN	8	94	163	2	8				257
QA/QC									8
WATERLINE EASEMENT DOCUMENT PREPARATION									10
HOURS SUB-TOTALS	8	94	163	2	8				275
CONTRACT RATE PER HOUR	\$220.00	\$195.00	\$117.00	\$190.00	\$120.00				
TOTAL LABOR COSTS	\$1,760.00	\$18,330.00	\$19,071.00	\$380.00	\$960.00				\$40,501.00
% DISTRIBUTION OF STAFFING	2.9%	34.2%	59.3%	0.7%	2.9%				
SUBTOTAL (FC 131)									\$40,501.00

APPENDIX TO EXHIBIT D - SWA 01
FEE SCHEDULE
AGUIRRE & FIELDS, LP

AGUIRRE & FIELDS, LP
CONTRACT:
SWA 01 TO WA 01

SUB PROVIDER NAME: HALFF ASSOCIATES

TASK DESCRIPTION	SENIOR RP'S	SURVEY TECH	2-MAN SURVEY CREW				TOTAL LABOR HOURS & COSTS
FC 180 - SURVEY							
SURVEY	4	40	10				54
ESTABLISH HORIZONTAL & VERTICAL CONTROL	1	20	12				33
TOPOGRAPHIC DESIGN SURVEYING	1	1	8				10
SUE SUPPORT	1	20	20				41
BATHYMETRIC SURVEY	1	12	8				21
AS-BUILT BRIDGE SURVEY	4	8					32
QA/QC FINAL DELIVERABLES							
HOURS SUB-TOTALS	12	101	58				171
CONTRACT RATE PER HOUR	\$190.00	\$120.00	\$170.00				
TOTAL LABOR COSTS	\$2,280.00	\$12,120.00	\$9,860.00				\$24,260.00
% DISTRIBUTION OF STAFFING	7.0%	59.1%	33.9%				
SUBTOTAL (FC 180)							\$24,260.00

TASK DESCRIPTION	SR. PROJECT MANAGER	SR REVIEW ENGINEER	SENIOR ENGINEER	PROJECT ENGINEER	JUNIOR ENGINEER	GRADUATE ENGINEER (GIT)	CADD / GIS TECH	ADMIN ASSISTANT	TOTAL LABOR HOURS & COSTS
FC 183 - DRAINAGE									
DRAINAGE									
BRIDGE SCOUR		7			40	25			72
FINAL DRAINAGE REPORT		9			60	40			109
CLOMR	1	16			85	60			162
LOWR	1	16			60	45			122
STORM DRAIN DESIGN (60%, 95%, FINAL)	10		36			380	120		721
QA/QC FINAL DELIVERABLES									18
HOURS SUB-TOTALS	12	66	36		245	550	120	0	1204
CONTRACT RATE PER HOUR	\$750.00	\$220.00	\$195.00	\$171.00	\$139.00	\$117.00	\$95.00	\$65.00	
TOTAL LABOR COSTS	\$3,000.00	\$14,520.00	\$7,020.00	\$29,925.00	\$34,055.00	\$64,350.00	\$11,400.00	\$0.00	\$164,270.00
% DISTRIBUTION OF STAFFING	1.0%	5.5%	3.0%	14.5%	20.3%	45.7%	10.0%	0.0%	
SUBTOTAL (FC 183)									\$164,270.00

ADDENDUM TO EXHIBIT D - SWA 01
FEE SCHEDULE
AGUIRRE & FIELDS, LP

AGUIRRE & FIELDS, LP
CONTRACT:
SWA 01 TO WA 01

SUB PROVIDER NAME: HALFF ASSOCIATES

TASK DESCRIPTION	SR PROJECT MANAGER	PROJECT ENGINEER	CONTRACT ADMIN SPECIALIST	CONTRACT ADMIN SPECIALIST	TOTAL LABOR HOURS & COSTS
FC 304 - PROJECT MANAGEMENT & ADMINISTRATION					
GENERAL ADMINISTRATION					
PROJECT ADMINISTRATION & MANAGEMENT (7 MONTHS)	8	12			20
MONTHLY PROGRESS REPORTS & MONITORING (7 MONTHS)		7	7		14
PROJECT COORDINATION MEETINGS (24 BI-WEEKLY @ 30 MIN. @ 1.5HR)	6	12			18
HOURS SUB-TOTALS	14	31	7		52
CONTRACT RATE PER HOUR	\$250.00	\$171.00	\$85.00		
TOTAL LABOR COSTS	\$3,500.00	\$5,301.00	\$595.00		\$9,396.00
% DISTRIBUTION OF STAFFING	26.2%	59.6%	13.2%		
SUBTOTAL (FC 304)					\$9,396.00

TASK DESCRIPTION	SR PROJECT MANAGER	PROJECT ENGINEER	GRADUATE ENGINEER (ETT)	CONTRACT ADMIN SPECIALIST	TOTAL LABOR HOURS & COSTS
FC 309 - CONSTRUCTION PHASE SERVICES					
CONSTRUCTION SERVICES					
PROJECT ADMIN & MANAGEMENT (12 MONTHS)	6		12		18
PREPARE INVOICES & MONTHLY PROJECT PROGRESS REPORTS (12 MONTHS)			6	12	18
MATERIAL SUBMITTAL REVIEW (8 TOTAL)		4	16		20
REQUEST FOR INFORMATION (RIFs) (2 TOTAL)		2	8		10
HOURS SUB-TOTALS	6	6	42	12	66
CONTRACT RATE PER HOUR	\$195.00	\$171.00	\$117.00	\$85.00	
TOTAL LABOR COSTS	\$1,170.00	\$1,026.00	\$4,914.00	\$1,020.00	\$8,130.00
% DISTRIBUTION OF STAFFING	9.1%	9.1%	63.6%	18.2%	
SUBTOTAL (FC 309)					\$8,130.00

ADDENDUM TO EXHIBIT D - SWA 01
FEE SCHEDULE
AGUIRRE & FIELDS, LP

AGUIRRE & FIELDS, LP
CONTRACT:
SWA 01 TO WA 01

SUB PROVIDER NAME: HALFF ASSOCIATES

DESCRIPTION	UNIT	# OF LIMITS	COST/UNIT	TOTAL MH BY FC	TOTAL COSTS BY FC
DIRECT EXPENSES					
FC130 - SUE LVL A (Up to 15 test boxes)	EA	15	\$1,500.00		\$22,500.00
FC130 - SUE CORR. ROW PERMIT	EA	1	\$1,000.00		\$1,000.00
FC130 - SUE CERTIFIED TRAFFIC CONTROL	DAY	1	\$1,600.00		\$1,600.00
FC 161 - FEMA ONLINE CLOMR FEE	EA	1	\$6,500.00		\$6,500.00
FC 161 - FEMA ONLINE LOWR FEE	EA	1	\$0,000.00		\$0,000.00
FC 164 - COURRIER FEE	EA	2	\$75.00		\$150.00
SUBTOTAL DIRECT EXPENSES					
					\$39,750.00
CONTRACT EXPENSES					
FC 130 - RIGHT-OF-WAY DATA				762	\$113,437.00
FC 131 - UTILITIES				275	\$40,503.00
FC 150 - SURVEY				171	\$24,260.00
FC 161 - DRAINAGE				1204	\$164,270.00
FC 164 - PROJECT MANAGEMENT & ADMINISTRATION				52	\$9,396.00
FC 309 - CONSTRUCTION PHASE SERVICES				66	\$4,130.00
SUBTOTAL LABOR EXPENSES					
				2530	\$359,994.00

DESCRIPTION	UNIT	# OF LIMITS	COST/UNIT	TOTAL MH BY FC	TOTAL COSTS BY FC
SUMMARY					
LABOR COSTS FOR SUB CONSULTANT					\$359,994.00
NON-SALARY (OTHER DIRECT EXPENSES) FOR SUB CONSULTANT					\$39,750.00
GRAND TOTAL FOR SUBCONSULTANT					\$399,744.00

ADDENDUM TO EXHIBIT D - SWA 01
FEE SCHEDULE
AGUIRRE & FIELDS, LP

AGUIRRE & FIELDS, LP
CONTRACT:
SWA 01 TO WA 01

SUB PROVIDER NAME: FORESIGHT PES

TASK DESCRIPTION	PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEER TECHNICIAN	CADD OPERATOR	ADMIN / CLERICAL	TOTAL LABOR HOURS & COSTS
FC 11B - ROUTE DESIGN & STURMS							
GEOTECHNICAL INVESTIGATION & FIELD WORK			4				4
STAKE BOREHOLES			1				1
UTILITY CLEARANCE (7/28/11)							0
ROPE COORDINATION W/LANDLORD	1	1	2				4
PREPARE PRELIMINARY PLANS OF BORINGS FOR REVIEW	1	2	16				19
DRILLING COORDINATION & LOGGING	1	1	2				4
REVIEW FIELD LOGS	1	1	2				4
ASSIGN LABORATORY TESTING	1	1	1				3
LABORATORY DATA REVIEW	1	1	1				3
BRING LOGS PREPARATION	1	1	4				6
RETAINING WALL ANALYSIS (REVIEW LAYOUT VS. DEVELOP SOIL PARAMETERS)	1	1	4				6
RETAINING WALL DESIGN (PROVIDE GLOBAL STABILITY & EXTERNAL STABILITY RESULTS)	2	3	12				17
DRAFT REPORT PREPARATION	3	4	18				25
FINAL REPORT PREPARATION	2	2	12				16
QA/QC	3	6					9
HOURS SUB-TOTALS	17	23	78	0	0	0	118
CONTRACT RATE PER HOUR	\$203.17	\$142.77	\$90.60	\$0.00	\$0.00	\$65.89	\$13,804.40
TOTAL LABOR COSTS	\$3,453.89	\$3,283.71	\$7,066.80	\$0.00	\$0.00	\$0.00	\$13,804.40
% DISTRIBUTION OF STAFFING	14.4%	19.5%	66.2%	0.0%	0.0%	0.0%	
SUBTOTAL (FC 11B)							\$13,804.40

TASK DESCRIPTION	PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEER TECHNICIAN	CADD OPERATOR	ADMIN / CLERICAL	TOTAL LABOR HOURS & COSTS
FC 11A - PROJECT MANAGEMENT & ADMINISTRATION							
MEETINGS & MISC COORDINATION	5						5
PREPARE INVOICES & MONTHLY PROJECT PROGRESS REPORTS	5					10	5
HOURS SUB-TOTALS	10	0	0	0	0	10	20
CONTRACT RATE PER HOUR	\$203.17	\$142.77	\$90.60	\$0.00	\$0.00	\$65.89	\$2,690.60
TOTAL LABOR COSTS	\$2,031.70	\$0.00	\$0.00	\$0.00	\$0.00	\$658.90	\$2,690.60
% DISTRIBUTION OF STAFFING	50.0%	0.0%	0.0%	0.0%	0.0%	50.0%	
SUBTOTAL (FC 11A)							\$2,690.60

ADDENDUM TO EXHIBIT D - SWA 01
FEE SCHEDULE
AGUIRRE & FIELDS, LP

AGUIRRE & FIELDS, LP
CONTRACT:
SWA 01 TO WA 01

SUB PROVIDER NAME: FORESIGHT PES

DESCRIPTION	LIMIT	# OF LIMITS	COST/LIMIT	TOTAL MH BY FC	TOTAL COSTS BY FC
CORRECT EXPENSES					
2 Retaining Wall Borings @ 20'	lf	0	\$30.00		\$0.00
Soil Boring/Rock Coring w/o TCP (<60 ft.)	lf	40	\$35.00		\$1,400.00
Soil Boring/Rock Coring with TCP (<60 ft.)	lf	0	\$40.00		\$0.00
Soil Boring/Rock Coring with TCP (>60 ft.)	lf	40	\$8.00		\$320.00
Borehole Grouting - Bentonite Chips	mile	20	\$5.00		\$100.00
Drill Rig/Crew Mobilization	each	4	\$65.00		\$260.00
Unconfined Compressive Strength (Soil)	each	0	\$85.00		\$0.00
Unconfined Compressive Strength (Rock)	each	1	\$55.00		\$55.00
Soluble Sulfate Content of Soils	each	5	\$42.00		\$210.00
Determine Liquid Limit of Soils	each	5	\$42.00		\$210.00
Determine Plastic Limit of Soils	each	7	\$50.00		\$350.00
Determining the Amount of Material in Soil finer than the 75 micrometer (Minus # 200)	each	4	\$70.00		\$280.00
Particle Size Analysis of Soils	each	12	\$13.00		\$156.00
Determining the Moisture Content in Soils	each	0	\$300.00		\$0.00
Modified Proctor Test	each	0	\$30.00		\$0.00
Dynami's Cone Penetrometer	each	0	\$120.00		\$0.00
Standard Test Method for Moisture, Ash, and Organic Matter of Peat & Other Organic Soils	each	0	\$350.00		\$0.00
Lime Series - Test 124.1 Part 1	each	0	\$40.00		\$0.00
Asphalt Patch	mile	20	\$0.58		\$11.60
Message	Day	0	\$1,750.00		\$0.00
Traffic Control Services, Arrow Boards & Attenuator Trucks - Medium Project Includes labor, equipment, fuel	each	2	\$450.00		\$900.00
One Dimensional Consolidation	each	0	\$300.00		\$0.00
California Bearing Ratio (Single Sample without MD Curve)	each	0	\$300.00		\$0.00
SUBTOTAL LABOR EXPENSES					
					\$4,252.60

SUMMARY	
TOTAL COSTS FOR SUBCONSULTANT	\$16,495.00
NON-SALARY (OTHER DIRECT EXPENSES) FOR SUBCONSULTANT	\$4,252.60
GRAND TOTAL FOR SUBCONSULTANT	\$20,747.60

ADDENDUM TO EXHIBIT D - SWA 01
FEE SCHEDULE
AGUIRRE & FIELDS, LP

AGUIRRE & FIELDS, LP
CONTRACT:
SWA 01 TO WA 01

SUB PROVIDER NAME: KIMLEY HORN

TASK DESCRIPTION	SENIOR PROFESSIONAL II	SENIOR PROFESSIONAL I	PROFESSIONAL	ANALYST	ADMIN / CLERICAL	TOTAL LABOR HOURS & COSTS
FC 110 - ROUTE & DESIGN STUDIES						
DATA COLLECTION & FIELD RECONNAISSANCE						
COORDINATE WITH SUBCONSULTANT TO OBTAIN TRAFFIC COUNTS		1	2			3
OBTAIN BACKGROUND TIA FROM CITY			2	2		4
FIELD VISIT		3	1			6
TRAFFIC ENGINEERING & OPERATIONS						
REDISTRIBUTE EXISTING & PROJECT FUTURE TRAFFIC VOLUMES		1	2	4		7
SIGNAL WARRANT ANALYSIS		2	4	8		14
TECHNICAL MEMO		2	4	10		16
HOURS SUB-TOTALS	0	9	17	24	0	50
CONTRACT RATE PER HOUR	\$255.00	\$220.00	\$180.00	\$130.00	\$95.00	
TOTAL LABOR COSTS	\$0.00	\$1,980.00	\$3,060.00	\$3,120.00	\$0.00	\$8,160.00
% DISTRIBUTION OF STAFFING	0.0%	24.0%	34.0%	48.0%	0.0%	
SUBTOTAL [FC 110]						\$8,160.00

TASK DESCRIPTION	SENIOR PROFESSIONAL II	SENIOR PROFESSIONAL I	PROFESSIONAL	ANALYST	ADMIN / CLERICAL	TOTAL LABOR HOURS & COSTS
FC 182 - SIGNALING, PAVEMENT MARKINGS, & SIGNALS						
SIGNAL DESIGN						
SIGNAL LAYOUT SHEET		4	10	25		39
SIGNAL ELEVATION SHEET		1	3	6		10
ELECTRICAL WIRING & CONDUIT CHARTS		2	4	6		12
PAGING		1	2	4		7
CABLE TERMINATION		1	3	6		10
QUANTITIES & GENERAL NOTES		2	4	8		14
CR 110-RED 8UD LANE SIGNAL PED-POLE MODIFICATIONS		4	8	20		32
SUBMITTALS (60%, 95%, FINAL)		8	15	30		53
HOURS SUB-TOTALS	0	23	49	97	0	169
CONTRACT RATE PER HOUR	\$255.00	\$220.00	\$180.00	\$130.00	\$95.00	
TOTAL LABOR COSTS	\$0.00	\$5,060.00	\$8,820.00	\$12,610.00	\$0.00	\$26,490.00
% DISTRIBUTION OF STAFFING	0.0%	19.1%	25.2%	37.7%	0.0%	
SUBTOTAL [FC 182]						\$26,490.00

ADDENDUM TO EXHIBIT D - SWA 01
FEE SCHEDULE
AGUIRRE & FIELDS, LP

AGUIRRE & FIELDS, LP
CONTRACT:
SWA 01 TO WA 01

SUB PROVIDER NAME: KIMLEY HORN

TASK DESCRIPTION	SENIOR PROFESSIONAL II	SENIOR PROFESSIONAL I	PROFESSIONAL	ANALYST	ADMIN / CLERICAL	TOTAL LABOR HOURS & COSTS
FC 163 - MISCELLANEOUS (ROADWAY)						
ILLUMINATION DESIGN	2	4	6	20		32
PHOTOMETRIC MODELING		6	10	34		40
ILLUMINATION LAYOUT SHEETS	1	2	6	10		19
ELECTRICAL VOLTAGE DROP CALCS		2	4	12		18
CONDUIT & WIRING CHARTS		2	4	8		14
QUANTITIES	2	6	12	25		45
SUBMITTALS (60%, 95%, FINAL)						
HOURS SUB-TOTALS	5	23	42	99	0	168
CONTRACT RATE PER HOUR	\$188.00	\$220.00	\$180.00	\$130.00	\$95.00	
TOTAL LABOR COSTS	\$1,275.00	\$4,860.00	\$7,560.00	\$12,870.00	\$0.00	\$26,565.00
% DISTRIBUTION OF STAFFING	3.0%	13.1%	25.0%	58.9%	0.0%	
SUBTOTAL [FC 163]						\$26,565.00

TASK DESCRIPTION	SENIOR PROFESSIONAL II	SENIOR PROFESSIONAL I	PROFESSIONAL	ANALYST	ADMIN / CLERICAL	TOTAL LABOR HOURS & COSTS
FC 164 - PROJECT MANAGEMENT & ADMINISTRATION						
PREPARE FOR/ATTEND TWO (2) PROGRESS MEETINGS		4				8
PROJECT COORDINATION, PREPARE INVOICES & PROGRESS REPORTS		10	5	4	4	23
HOURS SUB-TOTALS	0	14	5	4	4	31
CONTRACT RATE PER HOUR	\$255.00	\$220.00	\$180.00	\$130.00	\$95.00	
TOTAL LABOR COSTS	\$0.00	\$3,080.00	\$1,620.00	\$520.00	\$380.00	\$5,600.00
% DISTRIBUTION OF STAFFING	0.0%	45.2%	29.0%	12.5%	12.9%	
SUBTOTAL [FC 164]						\$5,600.00

ADDENDUM TO EXHIBIT D - SWA 01
FEE SCHEDULE
AGUIRRE & FIELDS, LP

AGUIRRE & FIELDS, LP
CONTRACT:
SWA 01 TO WA 01

SUB PROVIDER NAME: KIMLEY HORN

TASK DESCRIPTION	SENIOR PROFESSIONAL II	SENIOR PROFESSIONAL I	ANALYST	ADMIN / CLERICAL	TOTAL LABOR HOURS & COSTS
FC 309 - CONSTRUCTION PHASE SERVICES					
CONSTRUCTION SERVICES					
ATTEND 3 FIELD MEETINGS	6	5			12
RESPOND TO 3 RFPS	3	3			6
REVIEW 5 CONTRACTOR SUBMITTALS	3		3		6
ISSUE UP TO 5 SHEETS FOR CO	2	4	B		14
HOURS SUB-TOTALS	0	14	11	0	38
CONTRACT RATE PER HOUR	\$255.00	\$220.00	\$130.00	\$95.00	
TOTAL LABOR COSTS	\$0.00	\$3,080.00	\$1,430.00	\$0.00	\$6,850.00
% DISTRIBUTION OF STAFFING	0.0%	45.2%	41.5%	35.5%	0.0%
SUBTOTAL (FC 309)					\$6,850.00

DESCRIPTION	TOTAL MH BY FC	TOTAL COSTS BY FC
FC 110 - ROUTE & DESIGN STUDIES	50	\$5,160.00
FC 162 - SIGNING, PAVEMENT MARKINGS, & SIGNALS	169	\$26,490.00
FC 163 - MISCELLANEOUS (ROADWAY)	168	\$26,545.00
FC 164 - PROJECT MANAGEMENT & ADMINISTRATION	31	\$5,600.00
FC 309 - CONSTRUCTION PHASE SERVICES	38	\$6,850.00
SUBTOTAL LABOR EXPENSES	456	\$73,645.00

SUBJECT EXPENSES	UNIT	# OF UNITS	COST/UNIT	TOTAL COSTS BY FC
Mileage (10 miles RT & 3 trips)	mile	55	\$4.37	\$31.10
Photocopies B/W [11" X 17"] (AT 50% Submittal)	each	60	\$0.20	\$12.00
Obtain Traffic Counts (Traffic Counts Sub)	each	1	\$1,100.00	\$1,100.00
SUBTOTAL DIRECT EXPENSES				\$1,143.10

SUMMARY	AMOUNT
TOTAL COSTS FOR SUB CONSULTANT	\$73,645.00
NON-SALARY (OTHER DIRECT EXPENSES) FOR SUB CONSULTANT	\$1,143.10
GRAND TOTAL FOR SUBCONSULTANT	\$74,788.10

APPENDIUM TO EXHIBIT D - SWA 01
FEE SCHEDULE
AGUIRRE & FIELDS, LP

AGUIRRE & FIELDS, LP
CONTRACT:
SWA 01 TO WA 01

SUB PROVIDER NAME: CD&P

TASK DESCRIPTION	PROJECT MANAGER	SENIOR PUBLIC INVOLVEMENT SPECIALIST	GRAPHIC DESIGN & WEB DEVELOPER	PUBLIC INVOLVEMENT SPECIALIST	JUNIOR PUBLIC INVOLVEMENT SPECIALIST	TOTAL LABOR HOURS & COSTS
FC 130 - PUBLIC INVOLVEMENT & OUTREACH						
STAKEHOLDER COMMUNICATIONS & UPDATES						
Update stakeholder database	12	6		4	8	12
Stakeholder communication	16	4		6		24
Coordination, facilitation, and documentation of meetings with stakeholders (up to 8)	2	5		4		12
Updates to project materials (maps, fact sheets, FAQs)				2		2
Content updates for webpage						
HOURS SUB-TOTALS	30	16	0	20	8	74
CONTRACT RATE PER HOUR	\$175.00	\$125.00	\$100.00	\$85.00	\$65.00	
TOTAL LABOR COSTS	\$5,250.00	\$2,000.00	\$0.00	\$1,700.00	\$520.00	\$9,470.00
% DISTRIBUTION OF STAFFING	40.5%	21.6%	0.0%	27.0%	10.8%	
SUBTOTAL (FC 130)						\$9,470.00

TASK DESCRIPTION	PROJECT MANAGER	SENIOR PUBLIC INVOLVEMENT SPECIALIST	GRAPHIC DESIGN & WEB DEVELOPER	PUBLIC INVOLVEMENT SPECIALIST	JUNIOR PUBLIC INVOLVEMENT SPECIALIST	TOTAL LABOR HOURS & COSTS
FC 164 - PROJECT MANAGEMENT & ADMINISTRATION						
PREPARE FOR/ATTEND TWO (2) PROGRESS MEETINGS	12					12
PROJECT COORDINATION, PREPARE INVOICES & PROGRESS REPORTS	6					6
HOURS SUB-TOTALS	18	0	0	0	0	18
CONTRACT RATE PER HOUR	\$175.00	\$125.00	\$100.00	\$85.00	\$65.00	
TOTAL LABOR COSTS	\$3,150.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,150.00
% DISTRIBUTION OF STAFFING	100.0%	0.0%	0.0%	0.0%	0.0%	
SUBTOTAL (FC 164)						\$3,150.00

DESCRIPTION	TOTAL MH BY FC	TOTAL COSTS BY FC
FC 130 - PUBLIC INVOLVEMENT & OUTREACH	74	\$9,470.00
FC 164 - PROJECT MANAGEMENT & ADMINISTRATION	18	\$3,150.00
SUBTOTAL LABOR EXPENSES	92	\$12,620.00

DIRECT EXPENSES	UNIT	# OF UNITS	COST/UNIT	TOTAL COSTS
Mileage (40 miles RT x 8 trips)	mile	320	\$0.56	\$179.20
Standard Postage	letter	500	\$0.58	\$290.00
Photocopies color (8 1/2" X 11")	each	100	\$0.40	\$40.00
Photocopies color (11" X 17")	each	50	\$0.80	\$40.00
SUBTOTAL DIRECT EXPENSES				\$549.20

SUMMARY	TOTAL COSTS FOR SUB CONSULTANT
TOTAL COSTS FOR SUB CONSULTANT	\$12,620.00
NON-SALARY (OTHER DIRECT EXPENSES) FOR SUB CONSULTANT	\$549.20
GRAND TOTAL FOR SUBCONSULTANT	\$13,169.20