

STATEMENT OF QUALIFICATIONS TO BURNET COUNTY TEXAS



**William H Engineering LLC
1001 Buchanan Drive Suite 2
Burnet, Texas 78611**





Marcus W. Horner, P.E.

Owner

Mr. Horner is Owner and Manager of William H Engineering and has project experience in planning, analysis, design and management. The types of projects he has worked in include waterline design, wastewater design, major roadway design, water quality, bridge design, multi-story commercial building foundations, and residential subdivisions. Marcus is ultimately responsible for the engineering for all projects that are designed by William H Engineering.

Mr. Horner has practiced engineering as a professional while living in Burnet County for over 15 years. His experience in the Hill Country area has afforded him relations with local developers, builders, business owners and city officials in Burnet County, City of Burnet, Marble Falls, Granite Shoals, and Horseshoe Bay. He has also developed a great working relationship with the LCRA.

Notable Projects

The Ranches at Canyon Creek Phases I-III Burnet, Texas

Project consisted of 1,900 acres that were subdivided into large lots with the construction of roads. This included 10 culvert crossings and sheet flow across roads to allow for LCRA compliance.

Summit Springs

Project consisted of 1,100 acres that were subdivided into large lots with the construction of roads. This included 8 culvert crossings and sheet flow across roads to allow for LCRA compliance.

Airy Mount

Burnet, Texas

The project consisted of 5.795 acres of commercial development to be used as a destination attraction. There will be three restaurants, a farmers market, and an open air venue.

Ramsey's Way

Burnet, Texas

The construction of this road was to provide a second source of egress from Delaware Springs Subdivision. Three culvert crossings were designed to provide for drainage. Sheet Flow was maintained in order to comply with LCRA.

Other notable projects among hundreds Mr. Horner has provided engineering services for in Burnet County include:

Manzano Mile	County Roads 123,408, 223,207
Pecan Street Bridge	KFC
Marble Falls Utilities South	Haley Nelson Park
Marble Falls CDBG Projects	Holiday Inn MF

REGISTRATION

Licensure-State of Texas
Texas No. 96535

EDUCATION

Bachelor of Science
Civil Engineering

University of Texas at
San Antonio

PROFESSIONAL EXPERIENCE

WILLIAM H ENGINEERING
Owner
2015-Present

SK NELSON
Engineer
2012-2015

Hayley Nelson Associates
Engineer
2005-2012

FUGRO
Engineer
1997-2005



Veronica Ponce, E.I.T.

Engineer-In-Training

Veronica Ponce is an Engineer in Training at William H Engineering and has project experience in planning, analysis, and design. The types of projects she has worked on include waterline design, wastewater design, roadway design, water quality, housing subdivisions, and drainage studies.

REGISTRATION

Licensure-State of Texas
Texas No. 51001

EDUCATION

Bachelor of Science
Civil Engineering

University of Texas at
Tyler

PROFESSIONAL EXPERIENCE

WILLIAM H ENGINEERING
Engineer in Training
2015-Present

SK NELSON
Engineer in Training
2014-2015

Notable Projects

Howdy Boat and RV Storage Marble Falls, Texas

The project consisted of 8.6 acres located in the Marble Falls ETJ that was developed into a Boat and RV Storage Facility. The facility contains 60 units as well as a gravel drive over base. This project included both water quality and detention features.

Mojo Coffee Marble Falls, Texas

This project is currently under construction in Marble Falls. It is located at the corner of Lantana Dr. and Hwy 281 South. The 1.7 acre site consists of an existing building that is to be remodeled, as well as a drive-thru and parking spaces. A detention pond was designed for this site.

The Ranches at Lost Mountain Phase II Burnet, Texas

This project consisted of approximately 40 acres located in Burnet County off of Park Road 4. The 40 acres were subdivided into large lots with the construction of roads and crossings where required.



Neal Steffey

Senior CAD Designer

Neal Steffey is the Senior CAD designer at William H Engineering and has project experience in drafting and design. The types of projects he has worked on include waterline design, wastewater design, roadway design, water quality, residential subdivisions, and drainage studies.

PROFESSIONAL EXPERIENCE

WILLIAM H ENGINEERING
Sr. CAD Designer
2015-Present

SK NELSON
Sr. CAD Designer
2011-2015

HALEY NELSON ASSOOCIATES
Sr. CAD Designer
2000-2009

WILLIS ENGINEERING
Sr. CAD Designer
1983-2000

Notable Projects

Sewer and Water Extension City of Burnet Burnet, Texas

The project consisted of the addition of 2,400 lf of water and wastewater lines from the Ranches at Delaware to Ramsey's Way. An LCRA utility permit was acquired for this project as well as City approval.

Panther Hollow Subdivision Marble Falls, Texas

This project is currently under construction in Marble Falls. It is located off of Hwy 281 South. The site consists of road design, water/ wastewater design, channels, and culvert crossings. The road will be used by the proposed apartment complex, The Residences at Panther Hollow, and other commercial property.

The Bluffs at Round Mountain Round Mountain, Texas

This project consisted of approximately 217 acres located in Blanco County. The 217 acres were subdivided into large lots with the construction of roads and approximately 8 crossings.

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Introduction

William H Engineering was started by Marcus W. Horner, P.E. and his wife Stacy in 2015 after purchasing the computer data and equipment from SK Nelson Engineering. Our office is located at 1001 Buchanan Drive Suite 2 in the same building as the City of Burnet and approximately 1 mile from the Burnet County Courthouse. Mr. Horner has provided Civil and Geotechnical Engineering services and lived in Burnet County for over 15 years. Over the course of this time period Mr. Horner has worked on many Municipal, Residential and Commercial projects in Burnet County including projects directly for Burnet County. The owner, staff engineers, technical designer and accounting personnel live in three different Burnet County precincts. We provide Engineering services in Burnet County with the perspective of living in Burnet County. Safe design affects our families, friends and neighbors and an economical long lasting design directly affects our cost of living and quality of life.

With respect to the General Work Statement we have provided design and consulting services on many projects encompassed in the General work statement including Mr. Horner's work in evaluation of City of Burnet roads for classification and condition of repair and priority for repair for its continuing Road Improvement Projects. We have completed dozens and are currently working on many culvert crossings submitted to the county for review of compliance with County standards. Mr. Horner has also worked on large pier and beam bridge projects including Pecan Street in Marble Falls and cast in place culverts for the county. Additionally, Mr. Horner and William H Engineering have obtained multiple Letters of Map Amendment in Burnet County demonstrating our ability to complete detailed drainage studies in Burnet County.

Experience

Specific Projects we have designed include:

Vistas at Round Mountain	Guardian Storage
Howdy Boat and RV Storage	Airy Mount
Honey Rock Ranch	Oak Vista
The Ranches at Canyon Creek	7 Creeks Ranch
Rio Ancho	Shady Grove Drainage Study
Delaware Springs Section 19	Sunrise 90
The Ranches at Lost Mountain	Summit at Cypress Mill
Krebb's Ranch	Mojo Coffee
Peppermill Subdivision	Panther Hollow Subdivision
Delaware Springs Multi-Lot LOMA	Faith Academy Phase II
Ranches at Black Buck Ridge	Cloudwood Subdivision
Arrowhead Trail Ranch	

References on Burnet County Projects (in no particular order)

Ann Riddell	Bill Smyrl
Gary Dillard	Davy Roberts
Lou Christensen	Leonard Guenther
Jim Boushka	Caleb Kraenzei
Herb Stehling	Ted Burget
Rickey Langley	A.B. Walters

Response to Section 4

Fees(4.1)

Negotiable fee schedules and proposals will be provided within 5 days of notification in the event that William H Engineering is selected.

Project Team (4.2)

Marcus W. Horner, P.E., CFM - Project Manager

Principal of William H Engineering will be involved in every aspect of County projects from initial meetings through final inspection.

Veronica Ponce, E.I.T. Staff Engineer

Highly detailed and competent in Engineering design. Will coordinate communications and manage work flow through our office and all necessary correspondence with County staff and permitting agencies.

Neal Steffey, Engineering CAD Designer

Master designer producing digital and hand drawn plans in Burnet County for over 20 years. Will manage plans and digital data from site selection, conceptual and final design to as-built drawing production.

At the Counties discretion, we have contacted Cuplin and Associates in Marble Falls to provide Survey services on all projects we are invited to perform. Bret Burton will be our main point of contact. We successfully work with Cuplin Associates on a daily basis and have worked with Bret on projects for over 15 years.

Relevant resumes follow with more specific information on team members.

Method of Approach (4.3)

Based on the Scope of Work defined in the Request for Qualifications, William H Engineering LLC (WMH) has developed a specific list of tasks to be performed in completion of the various engineering projects for the County. Successful completion of the projects will result in the goal of providing a functional safe transportation routes with minimal environmental impact and the least possible maintenance.

Project Delivery

Pre-Design Planning

WMH will attend **project “kickoff” meetings** with the County Commissioners individually and collectively for coordination with appropriate personnel for interim site selection review and budgeting. WMH will visit the individual selected sites, **take measurements, prepare exhibits, and generally evaluate the selected sites to assist in determining the most feasible site layout** and site selection priority. This will include collection and presentation of publicly available data (e.g. CAPCOG contours, FEMA floodplain maps, Geologic maps, USDA Soil survey maps, etc.) and incorporation of County data. For short listed projects WMH will prepare a feasibility report for submittal to the Commissioner(s) describing the site layout and possible alternatives and **anticipated project cost**.

After approval of site layout by appropriate County personnel, WMH will **coordinate surveying** (see team member Cuplin and Associates) to provide boundary and topographic survey information. WMH will coordinate with appropriate entities to identify and locate all existing utilities that may pose a conflict within the proposed site. Where easements are required, WMH will provide a meets and bounds description of the area(s) requiring easements and coordinate with the commissioner and Surveyor to obtain and record necessary easements.

Design

WMH will prepare a preliminary engineering for each potential site and incorporate innovative permanent environmental best management practices. Proposed schematic drawings and layouts will be prepared for discussion with the County Commissioner(s) and County Staff.

Documentation

WMH will determine the full extent of any permitting requirements associated (local, State and Federal) with the site. At the County's direction, WMH will schedule meetings, public presentations, and other discussion forums as needed to fully convey the proposed design concept to the public and staff. WMH will prepare all required PowerPoint presentations, schematics, exhibits, cost estimates, and other graphic materials needed for such presentations.

WMH will submit all preliminary data to the County for review and comment. WMH will meet with and discuss the proposed site with County Staff as needed, and obtain any additional topographic survey data required for final design of the final site plan. WMH will obtain any existing hydraulic and hydrologic models for use in evaluating the potential effect on the watershed. WMH will add data to the model to reflect the installation of the proposed structures to determine potential effects; and revise the design(s) as needed to ensure a zero rise in base flood elevation and no adverse effects on the watershed.

WMH will identify and prepare a full report on maintenance needs, costs, including manpower and equipment needs.

WMH will prepare a ***final opinion of probable construction cost***, and submit for County review and discussion. Based on cost discussions with County Staff, the final design may be revised. WMH will submit the project plans for LCRA Highland Lakes Watershed Ordinance permitting at the Commissioners discretion.

WMH will prepare drawings, reports, and other data required for final permit applications to the respective entities including LCRA, FEMA, USACE, TCEQ or TWDB as required. As an ongoing process, WMH will formally

submit plans, specifications, and other design data to the County Staff for review.

Construction/Project Management

WMH will prepare final construction plans and specifications. In coordination with County Staff, WMH will set a time and date for bid openings. WMH will assist the County in advertising the project for bid, and provide plans and specifications to prospective bidders. WMH will conduct a pre-bid conference, and respond to bidders' questions and issue addenda as required. WMH will conduct the bid opening and, review, analyze and tabulate all bids received. WMH will make a formal recommendation to County Staff regarding award of the construction contract. WMH will prepare and issue "conformed to bid" contract documents.

Throughout the construction process, WMH will act at the County's direction as the County's agent in assisting the County in directing and inspecting the constructed project including:

Conduct a pre-construction conference with the County and the contractor.
Issue a notice to proceed to the contractor.

Make periodic visits to the site (generally bi-weekly) and observe the quality and progress of the work. (The County will provide continuous inspections)

- Consult and advise County Staff and County Inspectors regarding the ongoing project, and will respond to all questions from the County.
- Respond directly to all requests for information from the Contractor.
- Review and **recommend payment or non-payment** of the contractor's payment applications.
- Prepare and process all change orders, including any cost analysis required.
- Review all shop drawings and all contractor's submittals.
- Assist the County in performing inspections after substantial completion and will issue a punch list for the final inspection.
- Assist the County in performing the final inspection.
- **Prepare as-built drawings** and submit to the County in electronic format and in hard copy.
- Prepare a Certificate of Completion and a Clean Lien Certificate and submit to the County for record.

- Provide final correspondence to all regulatory and permitting authorities as required.
- Perform warranty inspection at approximately 11 months after the beginning of 1 year warranty period.

Each action item listed above should be listed in the consulting contract and upon completion of each to the County's satisfaction; an appropriate portion of the total fee will become eligible for invoicing to the County.

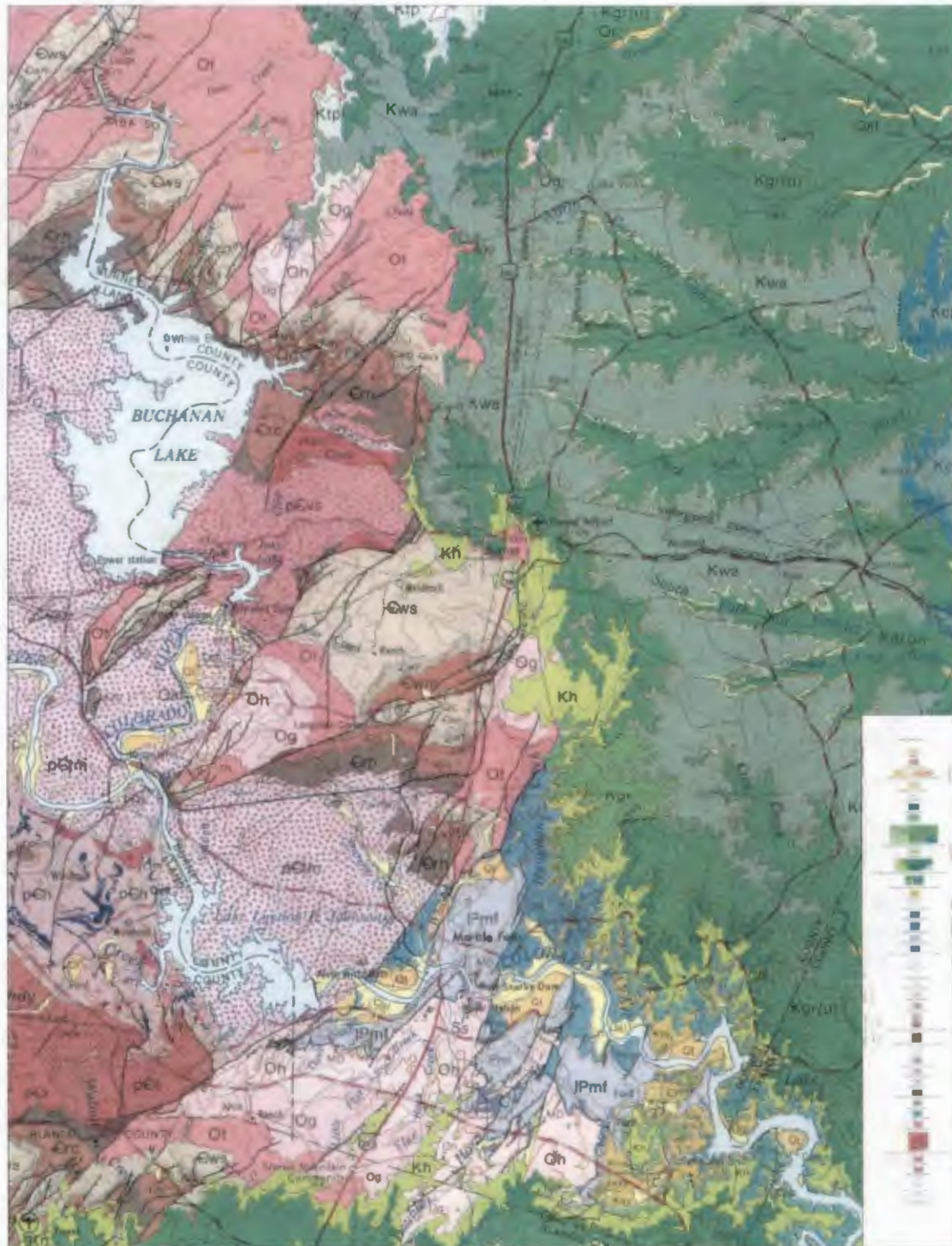
Marcus W. Horner, P.E., company Owner will be the project manager. Mr. Horner will dedicate time to the project as needed but will average approximately 5 hours per week for the duration of the project. In addition to managing the project he will be responsible for all civil and geotechnical aspects of the project. Additionally, WMH will provide Construction Materials Engineering and Testing (CMET) in accordance with the negotiated hourly fees on an as needed basis. Materials testing services are offered as a benefit to our Civil Engineering clients and allow a greater level of involvement in the construction of the project, and reduce the cost of obtaining services outside of the County. This level of involvement means that WMH will know when each lift of material is placed, surface is applied, or concrete yard is poured. All applicable safety measures include items such as hard hats and safety vests will be used during site visits/inspections.

Requested Services and Local Area Experience(4.4)

As a result of our local experience, we are intimately familiar with the relevant aspects of design and construction in Burnet County including:

Geology¹ – Burnet County has some of the most diverse geology in the state, if not the nation. South and East of Marble Falls the "Marble Falls Limestone (IPmf)" is extremely hard dolomitic limestone which will burn carbide teeth off of standard rock excavating equipment. Formations including the Tanyard and San Saba formations have similar localized hardness. Other formations include the softer Glenrose limestone group and deep expansive clays of the Smithwick formation. Further west we encounter the Town Mountain Granite which can range from easy to work with Granite Gravel and silica sands to massive solid granite formations.

Geology¹



¹ Virgil Everett Barnes Edition (1986), "Geologic Atlas of Texas, Llano Sheet," Bureau of Economic Geology, The University of Texas at Austin, Austin, Texas.

Local Materials: A substantial benefit of this diverse geology is the variety of construction materials available. There is the old Dean Word quarry, Collier Materials, other granite gravel Pit run materials, and Sandy Creek silica sand in the south central. As you move north we have Hanson and CCI among others in the Hensell Sand, Austin Chalk, and Glenrose Formations. Each area of the county has its own unique material benefits and detractions and must be treated individually during design and construction. Considering nearby raw material suppliers and prepared materials such as Portland Cement Concrete (PCC) Hot Mix Asphaltic Concrete (HMAC) is always part of our design process and a construction specification consideration.

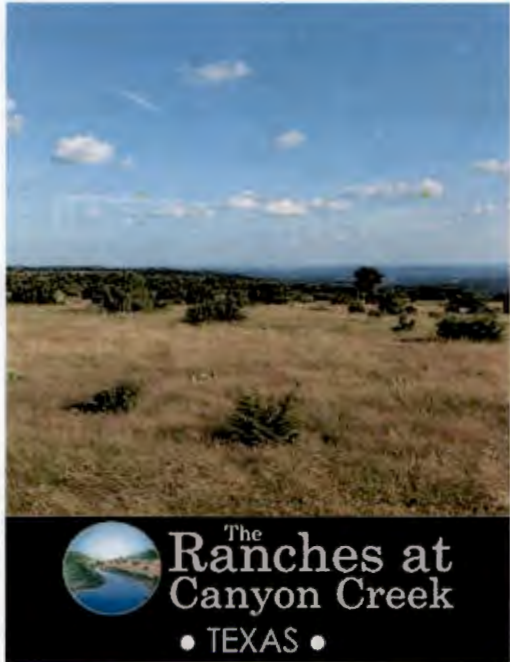
Topography: This portion of the Hill Country we live in presents unique challenges with its topography. As indicated by the Geology discussion, excavation must be minimized at some locations while at other locations excavation and embankment need to be balanced and consideration that the material excavated is often a good material for providing a stable embankment where necessary. Other aspects of design affected by our topography include safe slopes for emergency equipment to be able to negotiate. (e.g. some emergency equipment may have difficulty on slopes exceeding 14%.)

Hydraulics & Hydrology: As a subset of Geology and Topography combined with potentially high rainfall rates we are subject to flash flooding. A relatively small drainage area can produce substantially high volumes of rapidly moving water in area streams with little or no warning. In 2007 we experienced record flows in some creeks and streams (possibly 500year - 0.2% annual chance storm levels) while other parts of the county experienced relatively moderate flows (10 year – 10% annual chance). In some cases flooding can rise and descend so quickly that no one witnesses the event at a particular location. Emergency access and alternate access during flood situations should definitely be a consideration during site selection and design including the potential duration of inundation and possible permanent damage to infrastructure causing long term access issues.

Environmental Resources: The Highland Lakes is synonymous with Burnet County. The Highland Lakes Watershed Ordinance was implemented by the Lower Colorado River Authority in 1991 with the intent of preserving the natural resources of lakes and streams critical to the environmental and economic life of our community. We interact with the LCRA constantly on projects in the watershed regulated by the LCRA which encompasses approximately half of Burnet County. Anticipated County projects would likely be exempt from formal permitting, however important measures to insure soil stabilization during construction activities such as rock berms and silt fence and provide for permanent stabilization with rock concrete and vegetation upon completion would be part of any project in the county and routine to our engineering design.

Local Contractors: Marcus W. Horner and William H Engineering's experience and relationship with local contractors is extensive and we have developed professional and personal relationships with many in Burnet, surrounding counties and in south and central Texas. Some of the contractors we have worked with include:

Hoover Construction Inc.	Nelson Lewis Inc.
Key Enterprises	Lewis Contractors Inc.
M&C Fonseca	F&H Construction
Balcones Ridge Construction	
Hinds Paving	Guenter Construction
Langley Construction (Langley Homes Inc.)	
Qro Mex Construction Inc.	Zimmerman Construction
Ross Construction	Leading Edge Construction



THE RANCHES AT CANYON CREEK PHASES I-III BERTAM, TEXAS

Engineering and construction materials testing services were provided for the development of the three phases for The Ranches at Canyon Creek located in Bertram, Texas. The scope of this project included (i) Drainage Analysis/ Design; (ii) Grading Plan; (iii) Roadway Street Design; (iv) Storm Water Pollution Prevention Plan; (v) LCRA permitting.

Contract Value-
\$3,500,000.00

CLIENT CONTACT-
Davy Roberts, Partner
Lone Star Land Partners
(979)256-4432

Highlighted features of this project include:
Design of a Low Water Crossing across Cow Creek and On-Site Sewage Facility permit and soil testing.





Contract Value-
\$1,300,000.00

CLIENT CONTACT-
Davy Roberts, Partner
Lone Star Land Partners
(979)256-4432

RIO ANCHO

LIBERTY HILL, TEXAS

Engineering services were provided for the development of Rio Ancho located at the county line between Burnet and Williamson Counties. The scope of this project included (i) Drainage Analysis/ Design; (ii) Grading Plan; (iii) Roadway Street Design; (iv) Storm Water Pollution Prevention Plan; (v) TCEQ permitting. This Project is located in the Edwards Aquifer Contributing Zone, therefore, required a CZP application thru TCEQ.

Highlighted features of this project include: A FEMA flood study consisting of a LOMR (Letter of Map Revision) and the establishment of Base Flood Elevations on river fronting lots and design of a Low Water Crossing to Lot 19 located across a small tributary.





SHADY GROVE DRAINAGE STUDY

BURNET, TEXAS

Engineering services were provided for the Shady Grove Drainage Study. This particular site is located within FEMA's Zone A (unstudied) which caused multiple lots to be within the 100 year floodplain, as well as drainage issues on CR 200. William H Engineering performed a flood study for this site in order to revise the floodplain.

Highlighted features of this project include:
A FEMA flood study consisting of multiple LOMA's (Letter of Map Amendment). The revised floodplain was adopted by the City of Burnet.

Contract Value-
\$60,000.00

CLIENT CONTACT-
David Vaughn, City Manager
City of Burnet
(512)756-6093





Contract Value-
\$860,000.00

CLIENT CONTACT-
Steve Cox, Owner
(830)613-5237

Lou Christenson, Owner
Honey Rock, LP
(520)544-5610

Shawn Nelson, Owner
SK Nelson
(512)553-3366

HONEY ROCK **RAMSEY'S WAY** BURNET, TEXAS

Engineering services were provided for the development of Ramsey's Way located in Burnet, Texas. The scope of this project included (i) Drainage Analysis/ Design; (ii) Grading Plan; (iii) Roadway Street Design; (iv) Storm Water Pollution Prevention Plan; (v) LCRA permitting.

Highlighted features of this project include:
Tree preservation methods were applied.

