

PROJECT LAYOUT

PHASE 2

PHASE 1



MOON/WHITSON

CATES

KARLA

Phase 2A

- Delete roundabout/on-street parking
- Return to original 6-lane roadway
- Do underground utilities

Phase 2B

- Delete roundabout/on-street parking
- Keep all other proposed features

Phase 1

- Delete on-street parking/roundabout
- Redesign transition from 6 to 4 lanes

ATTACHMENT A SCOPE OF SERVICES

GUS THOMASSON ROAD – PHASE 2A RE-DESIGN

DESCRIPTION OF SERVICES:

The scope of services includes development of conceptual layouts, final design and associated details, and quantities to remove/revise design details and quantities related to the planned roundabout and on-street parking from the current construction plans along Gus Thomasson Road, from Moon Drive/Whitson Way to Oates Drive (Phase 2 of the ongoing project). Design revisions shall include developing a 100-year drainage system to be retrofitted into the existing 6-lane roadway via cut and restore paving replacement, revising water and wastewater service improvements within the 6-lane existing section, and details for mill and overlay of the existing pavement once underground improvements are complete. Design revisions and quantities are assumed to be processed as a contractor change order, so a revised specifications book is not included in this scope of services.

Project Manager:

The City of Mesquite Project Manager for this project is **Corey Nesbit, PE, City Engineer**, who can be reached at **(972) 329-8535**.

All correspondence to the City of Mesquite should be addressed to:

Corey Nesbit, PE, City Engineer
City of Mesquite
Engineering Department
1515 N. Galloway Ave.
Mesquite, TX 75149
Email: **cnesbit@cityofmesquite.com**

BASIC SERVICES:

A. Research and Data Collection –

1. Review impact to existing franchise utilities to determine the need for adjustment (or deletion of planned adjustments) within the project limits. Coordinate with franchise utility owners as required.

B. Preliminary Design –

1. Prepare preliminary construction plans. Information required can be combined on sheets if the information can be clearly shown and is approved by the City of Mesquite project manager. Prepare the following 22"x34" sheets at the engineering scale indicated:
 - Project layout control sheet(s). Scale 1"= 100'.

- Quantity sheet(s).
 - Typical sections and City standard detail sheets.
 - Construction phasing and temporary traffic control sheets (narrative and typical sections only).
 - Paving plan layouts for mill and overlay construction. Existing driveways are to remain. Scale of plans to be: 1"=20' Horizontal (plan view sheets only).
 - Drainage plan sheets for 100-year system. Includes assessment and redesign of inlet and conveyance systems and final plan and profiles of main trunkline(s) and laterals. Scale 1"=40'.
 - Waterline main and service lateral revisions to comply to existing pavement section. Scale 1"=20' horizontal and 1"=5' vertical
 - Sewer service lateral revisions to match a 6-lane section. Scale 1"=20' horizontal
 - Final buttoning plan sheets. Scale 1"= 40'.
2. Prepare a list of any special technical specifications needed for the project (if any).
 3. Prepare an estimate of construction quantities and develop the preliminary statement of probable construction cost.
 4. Submit two sets of full size preliminary plans, a list of any additional special technical specifications and a preliminary statement of probable construction cost to the City and the contractor for review.
 5. Meet with City of Mesquite staff to discuss City comments on preliminary plans, specifications list and cost estimates.
 6. If applicable, distribute the preliminary plans and proposed schedule for start of construction to local utility companies to obtain information regarding impacts to their facilities. Submit copies of transmittal letters to the City for its records.

C. Final Design –

1. Finalize construction plans for proposed improvements.
2. Finalize special technical specifications and special conditions (if any).
3. Incorporate standard details into the construction plans and prepare additional details as required.
4. Attend up to four (4) project meetings with City and contractor in which the on-going plan progress will be reviewed and design issues discussed.
5. Take off final construction quantities and prepare final construction cost estimates.
6. Submit three sets of pre-final plans (22x34), special technical specifications and final statement of probable construction cost to the City for review. Previous review comment markups shall be returned with this submittal.
7. Incorporate City final comments into the plans.
8. Submit three full size sets of final black line prints, specifications, and estimates to the City of Mesquite.

D. Bid Phase Services –

1. Assist the City staff in coordinating contractor change order.
2. Submit a CD-ROM disk of the final plan revisions in PDF format.

3. Evaluate contractor pricing. Prepare letter of recommendation to the City of Mesquite for proceeding with the change order within four working days of bid receipt.

E. Construction Administration –

1. Provide additional construction support through field visits, RFI coordination, and traffic signal shop drawing review. Provide written responses to requests for information or clarification.

GUS THOMASSON ROAD - PHASE 2A RE-DESIGN
Fee Schedule

Task	Brown & Gay Engineers, Inc.	Total
Engineering	\$105,860.00	\$105,860.00
Expenses	\$300.00	\$300.00
Total	\$106,160.00	\$106,160.00
%	100%	100%

GUS THOMASSON ROAD - PHASE 2A RE-DESIGN
Fee Schedule

Summary of Hours (All Firms)

Description of Activity	Lead Firm	Brown & Gay Engineers, Inc.	Total Hours
A. Research and Data Collection			
A.1 Coordinate possible franchise utility impacts	BGE	34	34
Subtotal		34	34
B. Preliminary Design			
B.1.1 Preliminary Construction Plans - Project Layout Sheet	BGE	5	5
B.1.2 Preliminary Construction Plans - Quantity Sheet(s)	BGE	6	6
B.1.3 Preliminary Construction Plans - Typical Sections and Standard Detail Sheets	BGE	7	7
B.1.4 Preliminary Construction Plans - Paving Sheets	BGE	88	88
B.1.5 Preliminary Construction Plans - Drainage Sheets	BGE	224	224
B.1.6 Preliminary Construction Plans - Waterline Sheets	BGE	44	44
B.1.7 Preliminary Construction Plans - Sewer Sheets	BGE	44	44
B.1.8 Preliminary Construction Plans - Pavement Marking Sheets	BGE	49	49
B.2 Prepare Specifications	BGE	13	13
B.3 Prepare Estimate of Construction Quantities and Probable Construction Cost	BGE	24	24
B.4 Produce and deliver two sets of full size Preliminary Plans, specifications, and estimate	BGE	48	48
B.5 Coordination with City regarding next steps for Preliminary Plans	BGE	8	8
B.6 Coordination with franchise utility companies regarding preliminary plans	BGE	10	10
Subtotal		570	570
C. Final Design			
C.1 Finalize roadway, drainage and water/wastewater details	BGE	128	128
C.2 Finalize technical specifications	BGE	8	8
C.3 Incorporate standard details into final plans	BGE/TBG	8	8
C.4 Attend up to 4 project meetings with City and Contractor	BGE	8	8
C.5 Take off final construction quantities and cost estimates	BGE	16	16
C.6 Produce and deliver 3 sets of pre final plans, specs, and estimate to City	BGE	48	48
C.7 Incorporate City final comments into the plans	BGE	20	20

GUS THOMASSON ROAD - PHASE 2A RE-DESIGN
Fee Schedule

Summary of Hours (All Firms)

Description of Activity	Lead Firm	Brown & Gay Engineers, Inc.	Total Hours
C.8 Produce and deliver 3 sets of final plans, specs, and estimate to City	BGE	12	12
Subtotal		248	248
D. Bid Phase Services			
D.1 Assist City staff in coordinating contractor change order	BGE/TBG	12	12
D.2 Prepare and submit CD-ROM disk of final plan revisions in pdf format	BGE/TBG	6	6
D.3 Evaluate Contractor pricing and prepare letter of recommendation to the City	BGE	4	4
Subtotal		22	22
E. Construction Administration			
E.1 Provide additional construction support through field visits, response to RFIs, and shop drawing review	BGE/TBG	24	24
Subtotal		24	24
TOTAL - ALL PHASES		898	898

GUS THOMASSON ROAD - PHASE 2A RE-DESIGN

Direct Expenses

Type	Firm Resp	Quantity	Unit	Fixed Cost	Cost
Plots (B/W on Bond)	BGE	200	square foot	\$1.50	\$300.00
BGE					\$300.00
TOTAL EXPENSES					\$300.00

GUS THOMASSON ROAD - PHASE 2A RE-DESIGN
Fee Schedule
Brown & Gay Engineers, Inc.

Function Code	Lead Firm	Sr PM	Project Engr	EIT	Designer	Surv Mgr/ RPLS	Survey Technician	Two Man Crew	Admin	Total Hours	Total Cost
A. Research and Data Collection											
A.1 Coordinate possible franchise utility impacts	BGE		24	8					2	34	
Subtotal		0	24	8	0	0	0	0	2	34	\$4,410.00
B. Preliminary Design	0										
B.1.1 Preliminary Construction Plans - Project Layout Sheet	BGE		1	2	2					5	
B.1.2 Preliminary Construction Plans - Quantity Sheet(s)	BGE		1	4	1					6	
B.1.3 Preliminary Construction Plans - Typical Sections and Standard Detail Sheets	BGE		2	4	1					7	
B.1.4 Preliminary Construction Plans - Paving Sheets	BGE		16	32	40					88	
B.1.5 Preliminary Construction Plans - Drainage Sheets	BGE		40	104	80					224	
B.1.6 Preliminary Construction Plans - Waterline Sheets	BGE		4	32	8					44	
B.1.7 Preliminary Construction Plans - Sewer Sheets	BGE		4	32	8					44	
B.1.8 Preliminary Construction Plans - Pavement Marking Sheets	BGE	1	8	16	24					49	
B.2 Prepare Specifications	BGE	1	4	8						13	
B.3 Prepare Estimate of Construction Quantities and Probable Construction Cost	BGE		4	16	4					24	
B.4 Produce and deliver two sets of full size Preliminary Plans, specifications, and estimate	BGE		16	16	16					48	
B.5 Coordination with City regarding next steps for Preliminary Plans	BGE		8							8	
B.6 Coordination with franchise utility companies regarding preliminary plans	BGE		4	6						10	
Subtotal		2	112	272	184	0	0	0	0	570	\$65,202.00
C. Final Design											
C.1 Finalize roadway, drainage and water/wastewater details	BGE	8	32	48	40					128	
C.2 Finalize technical specifications	BGE		8							8	
C.3 Incorporate standard details into final plans	BGE/TBG			8						8	
C.4 Attend up to 4 project meetings with City and Contractor	BGE		8							8	
C.5 Take off final construction quantities and cost estimates	BGE			16						16	
C.6 Produce and deliver 3 sets of pre final plans, specs, and estimate to City	BGE		8	16	16				8	48	
C.7 Incorporate City final comments into the plans	BGE		4	8	8					20	
C.8 Produce and deliver 3 sets of final plans, specs, and estimate to City	BGE				8				4	12	
Subtotal		8	60	96	72	0	0	0	12	248	\$29,660.00
D. Bid Phase Services											
D.1 Assist City staff in coordinating contractor change order	BGE/TBG		12							12	
D.2 Prepare and submit CD-ROM disk of final plan revisions in pdf format	BGE/TBG		2		2				2	6	
D.3 Evaluate Contractor pricing and preare letter of recommendation to the City	BGE	2	2							4	
Subtotal		2	16	0	2	0	0	0	2	22	\$3,180.00
E. Construction Administration											
E.1 Provide additional construction support through field visits, response to RFIs, and shop drawing review	BGE/TBG		24							24	
Subtotal		0	24	0	0	0	0	0	0	24	\$3,408.00
TOTAL - ALL PHASES		12	236	376	258	0	0	0	16	898	\$105,860.00

