MARK THOMAS

June 26, 2018

Ms. Peggy Arnest
2035 Tulare Street, Suite 201
Fresno, CA 93721

Project No.: FN-16105

RE: Extra Work Request #003 – Revision of the Golden State Boulevard Alignment from South Avenue to Bonita Avenue to the 60% Design Level

Dear Ms. Arnest:

The Golden State Boulevard Project is progressing to Final Design. As requested by the City of Fowler, Fresno COG would like to revise the project improvements in the subject area from an alignment along 8th Street to the existing Golden State Boulevard's alignment. This extra work request includes the services needed to revise the design documents to a 60% level. The scope of the revisions are in the attached Exhibit A.

Exhibit B shows the details of our fee proposal to complete the effort. The total fee requested for the extra work is $197,127.52.

If you have any questions regarding the items above, please feel free to contact me at 559-374-311 or via email at enoriega@markthomas.com.

Sincerely,
MARK THOMAS

Ed Noriega, PE
Division Manager - Fresno

Attachments:
Exhibit A
Exhibit B

EXHIBIT A

EXTRA WORK #003: DESIGN SERVICES FOR REVISING THE PROPOSED GOLDEN STATE BOULEVARD ALIGNMENT FROM SOUTH AVENUE TO BONITA AVENUE

Fresno COG has asked Mark Thomas to prepare 30% preliminary engineering and 60% plans, specifications, and estimates for revising the design to date of approximately 1.5 miles of Golden State Boulevard in the Fowler region between South Avenue and Bonita Avenue. The revision includes eliminating the proposed realignment of Golden State Boulevard along 8th Street and using the existing Golden State Boulevard alignment. The proposed improvements will include, but not be limited to, pavement rehabilitation along the subject portion of Golden State Boulevard and 8th Street, safety lighting at intersections, and the extension of the Class I trail in the median of southbound Golden State Boulevard and 8th Street. The tasks below outline the scope required for the project's design revisions:

Task 1: Project Management
Additional coordination will be required for client, subconsultants, the City of Fowler, The County of Fresno, and UPRR. Mark Thomas will perform the work necessary to revise the design as outlined in the master scope of services, in the subject area, for the following tasks:

- *1.3 Project Coordination*
- *1.4 Agency Coordination*
- *1.5 Railroad Coordination*
- *1.7 Permitting*
- *1.9 Community Involvement*
- *1.11 Quality Assurance/Quality Control*

Task 2: Surveys and Mapping
Mark Thomas will verify and supplement survey and right of way information for the subject area. Files will be updated with 60% design level information. Mark Thomas will perform the work necessary to revise the design as outlined in the master scope of services, in the subject area, for the following tasks:

- *2.2 Right-of-Way Acquisition Support*
    - *2.2.1 Acquisition Plans and Legal Description*

Task 4: Preliminary Engineering
For the subject area, the hydrology, hydraulic, and drainage patterns will need to be analyzed for the revision. Additionally, a 30% roadway design will need to be completed and reviewed by the City of Fowler and Fresno County. Mark Thomas will perform the work

necessary to study and revise the design documents for the following tasks in the area under consideration:

- *4.2 Drainage Report*
  - *4.2.1 Hydrology Memorandum*
  - *4.2.2 Hydraulic Memorandum*
  - *4.2.3 Drainage Report*
- *4.3 30% Plans*
  - *4.3.1 Preliminary Roadway Design*
  - *4.3.2 Traffic Signal Design*
  - *4.3.3 Street and Trail Lighting Plans*
  - *4.3.4 Structure Concept Plan*
  - *4.3.5 Landscape and Monument Sign Concept*

Task 5: Final Design (Plans, Specifications, Estimate)

Project plans, specifications, and estimates will be prepared for the 60% submittal. Mark Thomas will perform the work necessary to revise the design as outlined in the master scope of services, in the subject area, for the following tasks:

- *5.1 60% PS&E*
  - *5.1.1 Plans*
  - *5.1.2 Specifications*
  - *5.1.3 Estimate*
  - *5.1.4 General Cross sections*

Council of Fresno County Governments
FOWLER - SOUTH AVENUE TO BONITA AVENUE REDESIGN
BUDGET AND COST SCHEDULE

EXHIBIT B

PROJECT TASK	Principal		Ed Noriega Engineering Manager		James Polfer Project Manager/ Engineer		Erik Chin Design Engineer		Drafting Tech		Greg Rice Land Surveyor		TBD Admin		TOTAL	TOTAL
	$330		$256		$171		$95		$45		$163		$64			
PROJECT TASK	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COSTS
Task 1: Project Management																
1.1 Kick-off, PDT (12 total) and Coordination Meetings (18 total)		0	6	1,536	6	1,026	8	760		0		0	2	128	22	3,450
1.2 Constructability Review Meetings (9 total)		0	8	2,048	8	1,368	8	760		0		0	2	128	26	4,304
1.3 Project Coordination		0	8	2,048	16	2,736	2	190		0		0		0	26	4,974
1.4 Agency Coordination		0	4	1,024	4	684	4	380		0		0		0	12	2,088
1.5 Railroad Coordination		0	8	2,048	8	1,368	8	760		0		0		0	24	4,176
1.5.1 UPRR Letter for Preliminary Engineering Services		0	0	0		0		0		0		0		0	0	0
1.5.2 CPUC GO 88-B (up to 19 total)		0	8	2,048	2	342	2	190		0		0	2	128	14	2,708
1.5.3 UPRR Right of Entry		0		0		0		0		0		0		0	0	0
1.5.4 UPRR License Agreement and Easement		0		0		0		0		0		0		0	0	0
1.5.5 UPRR Construction and Maintenance Agreement		0	2	512	2	342	1	95		0		0		0	5	949
1.6 CPM Schedule/Progress Reports and Budgets		0	4	1,024		0		0		0		0		0	4	1,024
1.7 Permitting		0		0		0		0		0		0		0	0	0
1.7.1 Consultation with SJVAPCD		0		0		0		0		0		0		0	0	0
1.7.2 Consultation with CEMC		0		0		0		0		0		0		0	0	0
1.7.3 Pre-constructon Bat survey and reporting		0	1	256	1	171	1	95		0		0		0	3	522
1.7.4 Pre-construction SJKF survey and reporting		0	1	256	1	171	1	95		0		0		0	3	522
1.7.5 Pre-construction for nesting Birds surveys and reporting		0		0		0		0		0		0		0	0	0
1.8 Project Phasing		0	8	2,048		0		0		0		0		0	8	2,048
1.9 Community Involvement		0	2	512	2	342		0		0		0		0	4	854
1.9.1 Public Meetings (up to 8 total)		0	6	1,536	6	1,026	6	570	4	180		0		0	22	3,312
1.10 Community Planning and Economic Analysis		0		0		0		0		0		0		0	0	0
1.11 Quality Assurance/Quality Control		0	8	2,048	24	4,104		0		0		0		0	32	6,152
															0	0
Subtotal Task 1	**0**	**0**	**74**	**18,944**	**80**	**13,680**	**41**	**3,895**	**4**	**180**	**0**	**0**	**6**	**384**	**205**	**37,083**
Task 2: Surveys and Mapping																
2.1 Data Gathering/Technical Memo Review/Field Review		0		0		0		0		0		0		0	0	0
2.1.1 Right of Way Delineation		0		0		0		0		0		0		0	0	0
2.1.2 Control Survey		0		0		0		0		0		0		0	0	0
2.1.3 Mobile Scanning and Topographic Surveys		0		0		0		0		0		0		0	0	0
2.2 Right-of-way Acquisition Support		0		0		0		0		0		0		0	0	0
2.2.1 Acquisition Plats and Legal Description (up to 25 total)		0	1	256	2	342		0		0	4	652	4	256	11	1,506
2.2.2 Appraisal Maps		0		0		0		0		0		0		0	0	0
2.2.3 Appraisal Staking		0		0		0		0		0		0		0	0	0
2.2.4 Meetings		0		0		0		0		0		0		0	0	0
															0	0
Subtotal Task 2	**0**	**0**	**1**	**256**	**2**	**342**	**0**	**0**	**0**	**0**	**4**	**652**	**4**	**256**	**11**	**1,506**
Task 3: Utility Coordination																
3.1 Utility Coordination		0		0		0		0		0		0		0	0	0
3.2 Utility Potholing		0		0		0		0		0		0		0	0	0
															0	0
Subtotal Task 3	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Council of Fresno County Governments

FOWLER - SOUTH AVENUE TO BONITA AVENUE REDESIGN
BUDGET AND COST SCHEDULE

EXHIBIT B

PROJECT TASK	Principal		Ed Noriega		James Polfer		Erik Chin		Drafting Tech		Greg Rice		TBD			
			Engineering Manager		Project Manager/ Engineer		Design Engineer				Land Surveyor		Admin			
	$330		$256		$171		$95		$45		$163		$64		TOTAL	TOTAL
PROJECT TASK	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COSTS
Task 4: Preliminary Engineering																
4.1 Geotechnical Report		0		0		0		0		0		0		0	0	0
4.1.1 Visual Survey		0		0		0		0		0		0		0	0	0
4.1.2 Deflection Testing		0		0		0		0		0		0		0	0	0
4.1.3 Pre-field Exploration Activities		0		0		0		0		0		0		0	0	0
4.1.4 Field Exploration Program		0		0		0		0		0		0		0	0	0
4.1.5 Laboratory Testing Program		0		0		0		0		0		0		0	0	0
4.1.6 Engineering Analysis and Report Preparation		0		0		0		0		0		0		0	0	0
4.2 Drainage Report		0		0		0		0		0		0		0	0	0
4.2.1 Hydrology Memorandum		0	1	256	2	342	4	380		0		0		0	7	978
4.2.2 Hydraulics Memorandum		0	1	256	2	342	4	380		0		0		0	7	978
4.2.3 Drainage Report		0	1	256	2	342	4	380		0		0		0	7	978
4.3 30% Plans		0		0		0		0		0		0		0	0	0
4.3.1 Preliminary Roadway Design		0	15	3,840	24	4,104	56	5,320	24	1,080		0	20	1,280	139	15,624
4.3.2 Traffic Signal Design		0	2	512	6	1,026	24	2,280	8	360		0	8	512	48	4,690
4.3.3 Street and Trail Lighting Plans		0	2	512	4	684	8	760	8	360		0	8	512	30	2,828
4.3.4 Structure Concept Plan		0	1	256	4	684	4	380	4	180		0	8	512	21	2,012
4.3.5 Landscape and Monument Sign Concept		0	1	256	2	342	36	3,420	40	1,800		0	8	512	87	6,330
															0	0
Subtotal Task 4	**0**	**0**	**24**	**6,144**	**46**	**7,866**	**140**	**13,300**	**84**	**3,780**	**0**	**0**	**52**	**3,328**	**346**	**34,418**
Task 5: Final Design (Plans, Specification, Estimate)																
5.1 60% PS&E		0		0		0		0		0		0		0	0	0
5.1.1 Plans		0		0		0		0		0		0		0	0	0
a. Title Sheet		0		0		0		0		0		0		0	0	0
b. Typical Sections		0	1	256	2	342	16	1,520	4	180		0		0	23	2,298
c. Key Map		0	1	256	1	171	2	190	1	45		0		0	5	662
d. Project Control		0	1	256	2	342	4	380	4	180	16	2,608		0	27	3,766
e. Layouts		0	2	512	32	5,472	120	11,400	80	3,600		0		0	234	20,984
f. Profile and Superelevation Diagrams		0	1	256	8	1,368	40	3,800	24	1,080		0		0	73	6,504
g. Construction Details		0	1	256	2	342	24	2,280	8	360		0		0	35	3,238
h. Drainage Plans, Profiles, and Details		0	2	512	12	2,052	48	4,560	12	540		0		0	74	7,664
i. Utility Layouts		0	2	512	8	1,368	8	760	4	180		0		0	22	2,820
j. Water Pollution Control Plans		0	2	512	6	1,026	4	380	4	180		0		0	16	2,098
k. Stage Construction Plans		0	2	512	2	342	4	380	2	90		0		0	10	1,324
l. Traffic Handling Plans		0	2	512	2	342	4	380	2	90		0		0	10	1,324
m. Construction Area Signs		0	1	256	1	171	20	1,900	4	180		0		0	26	2,507
n. Pavement Delineation and Sign Plan		0	1	256	2	342	20	1,900	4	180		0		0	27	2,678
o. Sign Plan Details		0	1	256	2	342	16	1,520	2	90		0		0	21	2,208
p. Traffic Signal		0		0		0		0		0		0		0	0	0
p-1. Location 1 (GSB at South Avenue)		0	2	512	4	684	8	760		0		0		0	14	1,956
p-2. Location 2 (GSB at Temperance Avenue)		0		0		0		0		0		0		0	0	0
p-3. Location 3 (GSB at DeWolf Avenue)		0		0		0		0		0		0		0	0	0
p-4. Location 4 (GSB at Dinuba Avenue)		0		0		0		0		0		0		0	0	0
p-5. Location 5 (GSB at Bethel Avenue)		0		0		0		0		0		0		0	0	0
p-6. Location 6 (GSB at Clovis Jug-Handle)		0		0		0		0		0		0		0	0	0

Council of Fresno County Governments
FOWLER - SOUTH AVENUE TO BONITA AVENUE REDESIGN
BUDGET AND COST SCHEDULE

EXHIBIT B

PROJECT TASK			Ed Noriega		James Polfer		Erik Chin				Greg Rice		TBD			
	Principal		Engineering Manager		Project Manager/ Engineer		Design Engineer		Drafting Tech		Land Surveyor		Admin			
	$330		$256		$171		$95		$45		$163		$64			
PROJECT TASK	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	TOTAL HOURS	TOTAL COSTS
p-7. Location 7 (GSB at Adams Avenue)		0	2	512	4	684	8	760		0		0		0	14	1,956
p-8. Location 8 (GSB at Merced Street)		0	2	512	4	684	8	760		0		0		0	14	1,956
p-9. Location 9 (GSB at Manning Avenue)		0		0		0		0		0		0		0	0	0
p-10. Location 10 (GSB at San Antonio Drive)		0		0		0		0		0		0		0	0	0
p-11. Location 11 (GSB at Highland Avenue)		0		0		0		0		0		0		0	0	0
p-12. Location 12 (GSB at Floral Avenue)		0		0		0		0		0		0		0	0	0
p-13. Location 13 (GSB at Thompson Street)		0		0		0		0		0		0		0	0	0
p-14. Location 14 (GSB at Mountain View Avenue)		0		0		0		0		0		0		0	0	0
p-15. Location 15 (GSB at Draper Street)		0		0		0		0		0		0		0	0	0
p-16. Location 16 (GSB at Future Dinuba Alignment)		0		0		0		0		0		0		0	0	0
q. Street Lighting		0	1	256	4	684		0		0		0		0	5	940
r. Class 1 Trail Lighting		0	2	512	8	1,368	24	2,280	4	180		0		0	38	4,340
s. Planting and Irrigation		0		0		0		0		0		0		0	0	0
t. Monument Sign Plan		0		0		0		0		0		0		0	0	0
u-1. Aesthetics		0		0		0		0		0		0		0	0	0
u-1. Structures		0		0		0		0		0		0		0	0	0
v. Unchecked Details (60% Design and Detailing)		0	1	256	12	2,052	8	760	4	180		0		0	25	3,248
5.1.2 Specifications		0	2	512	24	4,104	16	1,520		0		0	40	2,560	82	8,696
5.1.3 Estimate		0	4	1,024	6	1,026	4	380		0		0		0	14	2,430
5.1.4 General Cross Sections		0	1	256	8	1,368	8	760		0		0		0	17	2,384
5.2 90% PS&E		0		0		0		0		0		0		0	0	0
5.2.1 Review 60% Comments		0		0		0		0		0		0		0	0	0
5.2.2 Update Plans		0		0		0		0		0		0		0	0	0
5.2.3 Update Specifications		0		0		0		0		0		0		0	0	0
5.2.4 Update Construction Cost Estimate		0		0		0		0		0		0		0	0	0
5.2.5 Update General Cross Sections		0		0		0		0		0		0		0	0	0
5.2.6 Independent Constructability Review		0		0		0		0		0		0		0	0	0
5.3 100% PS&E		0		0		0		0		0		0		0	0	0
5.3.1 Review 90% Comments		0		0		0		0		0		0		0	0	0
5.3.2 Update Plans		0		0		0		0		0		0		0	0	0
5.3.3 Update Specifications		0		0		0		0		0		0		0	0	0
5.3.4 Update Construction Cost Estimate		0		0		0		0		0		0		0	0	0
5.3.5 Update General Cross Sections		0		0		0		0		0		0		0	0	0
5.3.6 Independent Biddability Review		0		0		0		0		0		0		0	0	0
5.4 Deliver Final PS&E		0		0		0		0		0		0		0	0	0
5.4.1 Finalize Plans		0		0		0		0		0		0		0	0	0
5.4.2 Finalize SSP/Quantities		0		0		0		0		0		0		0	0	0
5.4.3 Finalize Cost Estimate		0		0		0		0		0		0		0	0	0
5.4.4 Prepare Final PS&E Submittal		0		0		0		0		0		0		0	0	0
5.4.5 Finalize General Cross Sections		0		0		0		0		0		0		0	0	0
5.4.6 Electronic Submittals		0		0		0		0		0		0		0	0	0
5.4.7 RE Pending File		0		0		0		0		0		0		0	0	0
															0	0
Subtotal Task 5	**0**	**0**	**37**	**9,472**	**156**	**26,676**	**414**	**39,330**	**163**	**7,335**	**16**	**2,608**	**40**	**2,560**	**826**	**87,981**

Council of Fresno County Governments
FOWLER - SOUTH AVENUE TO BONITA AVENUE REDESIGN
BUDGET AND COST SCHEDULE

EXHIBIT B

PROJECT TASK	Principal		Ed Noriega		James Polfer		Erik Chin				Greg Rice		TBD			
			Engineering Manager		Project Manager/ Engineer		Design Engineer		Drafting Tech		Land Surveyor		Admin			
	$330		$256		$171		$95		$45		$163		$64		TOTAL	TOTAL
PROJECT TASK	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COSTS
Task 6: Bidding Assistance and Construction Support																
6.1 Bidding Assistance		0		0		0		0		0		0		0	0	0
6.2 Construction Support		0		0		0		0		0		0		0	0	0
6.2.1 Pre-construction meeting and field meetings		0		0		0		0		0		0		0	0	0
6.2.2 Respond to RFIs		0		0		0		0		0		0		0	0	0
6.2.3 Shop Drawings Review		0		0		0		0		0		0		0	0	0
6.2.4 Construction Revisions and Change Orders		0		0		0		0		0		0		0	0	0
6.2.5 Record Drawings		0		0		0		0		0		0		0	0	0
															0	0
Subtotal Task 6	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
PROJECT TASKS SUBTOTAL	**0**	**0**	**136**	**34,816**	**284**	**48,564**	**595**	**56,525**	**251**	**11,295**	**20**	**3,260**	**102**	**6,528**	**1,388**	**160,988**

DIRECT COSTS

DIRECT COSTS	AMOUNT
Overhead Direct Costs (4% of MTCo Total Costs)	6,440
Terrametrix Mapping	
DIRECT COSTS SUBTOTAL	**6,440**

SUBCONSULTANTS

SUBCONSULTANTS	TOTAL COST
Provost & Pritchard	$ -
JLB Traffic Engineering, Inc.	$ 8,700
Cornerstone Structural Engineering Group	
DesignLab 252	
New Economics and Advisory	
The Rios Company	$ 12,000
First Carbon Solutions	$ 3,000
Kleinfelder	$ 6,000
NV5/Mendoza & Associates	
SUBCONSULTANTS SUBTOTAL	**$ 29,700**

PROPOSAL GRAND TOTAL	**$197,127.52**