



SCOPE OF WORK – PHASE 1

The Diablo Team will collaborate with the City Team to implement the following design and coordination items for the Project.



Project Tasks

8. 40th Street Phase 1 Added Scope of Work

8.1. Video Data Collection: For Hubbard Street, Horton Street, Holden Street, and Watts Street (between 40th Street and Park Avenue, IDAX to obtain 24-hour video for 4 weeks and then processing 12 hours per day for the first 14 days, given that the nighttime will likely have little activity. All videos will be collected using strategically placed wide angle timelapse cameras to cover the curb space. Full video will be provided in addition to a summary of Delivery Truck, Single Unit Truck and Truck w/Trailer per road and by date.

8.2. Added Traffic Analysis for Horton Diverter and Chick-Fil-A: For Hubbard Street, Holden Street, Haven Street and Watts Street, the traffic analysis includes all of these streets either opened or fully closed. In the original Alternative 2, the Horton Diverter was added to the analysis as requested by the City. After further coordination, the decision on if the Horton Diverter will be installed has been postponed until after this project. The City has also brought up concerns about the heavy traffic caused by the new Chick-Fil-A restaurant. Therefore, the following tasks will be added to the traffic analysis:

- Collect traffic data for Chick-Fil-A.
- Update Alternative 1 (all streets open) with Chick-Fil-A data.
- Add New Alternative 3 (unsignalized streets closed, no Horton Diverter) with Chick-Fil-A data.
- Prepare the final operations report with updated analysis.
- Exclude Alternative 2 from any further analysis and exclude it from the final report.

8.3 Added Field Topography for Hubbard Street: For Hubbard Street sidewalk on the West side, topography will be collected to be used for designing new sidewalk to close the gap between 40th Street and Park Boulevard.

8.4 Added Design for Hubbard St and Path Connection to Halleck St: For Hubbard Street sidewalk on the West side, design of new sidewalk (approximately 320 linear feet) to close the gap between 40th Street and Park Boulevard will be added to the 40th Street plan submittals. In addition, a new Class I path (approximately 280 linear feet) will be added to connect Halleck Street to the new cycle track on 40th Street in the area of Hubbard Street. This design will involve tight grading and potentially retaining walls given the constraints between 40th Street and the Pottery & Beyond lot. This will also be added to the 40th Street plan submittals.

8.5 Additional Outreach Efforts: Unsignalized Intersection Outreach: Effort for the preparation and mailing of the mailer to these stakeholders has gone through additional rounds of review which has increased labor cost. The area the mailer is being sent to has increased the number of mailings, currently estimated to be 550.



Postcard to Broader Area around 40th Street project: This is a new task requiring content development and layout for the postcard to inform a broader area of stakeholders about the project moving forward and the Council Meeting where the 35% design will be approved. Printing and mailing costs of the postcard is based on an estimated 750 addresses.

Diablo Engineering Group Team Invoicing
40th Street Transit-Only Lanes and Multimodal Enhancements Project

40th Street Transit-Only Lanes/Multimodal Enhancements Project		Budget
TASK 1.0	Project Management and Grant Management	
1.1	Regularly Scheduled Project Team Meetings	\$72,107.15
1.2	City/Project Manager Communications and Consultations	\$11,632.67
1.3	Partner Agency (Staff) Coordination and/or Meetings	\$15,645.01
1.4	Develop and Update Project Schedule	\$3,192.00
1.5	Manage SB1 ATP Cycle 5 Grant Funding Agreement Tasks	\$5,468.00
1.6	Manage ACTC Forms and Reports Deliverables	\$5,468.00
1.7	Perform Project Administration Tasks	\$72,077.21
	Subtotal - TASK 1.0	\$185,590.05
TASK 2.0	Environmental Review	
2.1	Review Existing Project Environmental Approvals	\$3,232.40
2.2	Prepare Memo of NEPA Environmental Recommendations	\$4,033.26
2.3	Pavement Investigation and Design	\$13,109.93
2.4	Optional NEPA Clearance Assuming Caltrans Federal Funding	\$8,401.37
2.5	FEMA Floodplain Maps	\$887.65
2.6	Biological Technical Memo	\$6,628.28
2.7	Visual Impact Assessment Questionnaire	\$2,137.86
2.8	Equipment Staging Technical Memo	\$2,775.51
2.9	Cultural Resources APE and Memo - Section 106 compliance	\$16,049.14
2.10	Water Quality Technical Memo	\$6,389.22
2.11	Hazardous Materials Technical Memo	\$3,155.13
2.12	Hydrology	\$3,508.89
2.13	ROW Information Technical Memo (Diablo)	\$45,233.12
2.14	Traffic Technical Memo (F&P)	\$16,748.72
	Subtotal - TASK 2.0	\$132,290.48
TASK 3.0	Traffic Impact Assessment	
3.1	Expand Existing VISSIM Model (AM and PM models)	\$6,383.35
3.2	Execute Existing VISSIM Model (AM and PM models)	\$13,104.67
3.3	Traffic Diversion Study (AM and PM)	\$13,556.39
3.4	Execute Project VISSIM Model (AM and PM models)	\$19,751.24
3.5	Multimodal Traffic Operations Documentation	\$12,948.11
	Subtotal - TASK 3.0	\$65,743.77
TASK 4.0	Public Outreach	
4.1	Facilitate Community Engagement Meetings	\$67,563.65
4.2	Agency Engagement	\$36,835.59
4.3	City Committees and Council Meetings	\$18,874.43
	Subtotal - TASK 4.0	\$123,273.68
TASK 5.0	PS&E Design Services	
5.1	Develop Corridor Planimetric and Topographic Surveys	\$39,384.25
5.2	Develop Right of Way and Existing Utility Base Mapping	\$28,680.23
5.3	Facilitate Conceptual Geometric Design Development	\$52,798.31
5.4	Develop and Finalize Geometric Approval Drawings (35% Milestone)	\$214,574.89
5.5	Develop Final Construction Drawings (65% Milestone)	\$272,250.80
5.6	Develop Final Construction Drawings (95% Milestone)	\$294,197.85
5.7	Develop Final Construction Drawings (100% Milestone)	\$198,714.07
5.8	Develop Final Construction Drawings (Final PS&E Milestone)	\$101,329.59
5.9	Prepare Updated Construction Cost Estimate (35%, 65%, 95%, 100%, Final)	\$101,809.44
5.10	Prepare Project Specifications (65%, 95%, 100% and Final)	\$55,304.52
5.11	Utility Coordination	\$29,799.94
5.12	Photometric Study	\$10,164.32
5.13	Easement Support	\$33,861.12
5.14	Monument Preservation	\$15,802.66
	Subtotal - TASK 5.0	\$1,448,672.00
TASK 6.0	Project Approvals	
6.1	Coordinate and Manage PS&E Reviews and Approvals (City of Emeryville)	\$17,421.01
6.2	Coordinate and Manage PS&E Reviews and Approvals (City of Oakland)	\$11,228.34
6.3	Coordinate and Manage PS&E Reviews and Approvals (Caltrans)	\$16,330.84
6.4	Caltrans LAPM Forms	\$11,768.00
	Subtotal - TASK 6.0	\$56,748.19
TASK 7.0	Project Funding Outlook and Grant Support	
7.1	Evaluate Grant Opportunities	\$3,608.00
7.2	Support the City with Grant Writing (Narrative, Mapping, Exhibits, and Forms)	\$12,043.72
	Subtotal - TASK 7.0	\$15,651.72
TASK 8.0	Added Scope of Work*	
8.1	Video Data Collection	\$47,400.00
8.2	Added Traffic Analysis for Horton Diverter and Chick-Fil-A	\$18,000.00
8.3	Added Field Topography for Hubbard St	\$5,000.00
8.4	Added Design for Hubbard St and Path Connection to Halleck St	\$35,332.00
8.5	Additional Outreach Efforts	\$14,500.00
	Subtotal - TASK 8.0	\$120,232.00
Total Hours/Fee Task 1 Through Task 7		\$2,027,969.88
Other Direct Costs (Reimbursables):		
	Reprographics, Expenses, Mileage and Title Reports	\$19,778.87
	Topographic Surveys/Aerial Mapping/Field Surveys/ Potholing	\$37,000.00
	Prepare Irrigation Plans (subcontracted expense)	\$45,000.00
	Supplimental Weekday Traffic Counts	\$3,000.00
	Traffic Control, Coring and Soils Lab Testing	\$17,200.00
	Total Other Direct Costs (Reimbursables):	\$121,978.87
Diablo Engineering Group Labor (Hours and Fee)		\$823,719.60
CD+A (Hours and Fee)		\$335,291.40
Fehr & Peers (Hours and Fee)		\$431,501.22
NCE (Hours and Fee)		\$80,834.59
MNS (Hours and Fee)		\$525,713.16
Total Hours and Labor		\$2,197,059.97
Total Other Direct Costs (Reimbursables):		\$121,978.87
Total Time and Materials Cost Approved		\$2,198,806.84
Total Time and Materials Cost with Task 8 Amendment		\$2,319,038.84