

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS
REPLACEMENT OF CHUCKWALLA VALLEY ROAD BRIDGE OVER AZTEC DITCH
(BR. NO. 56C0102)

FPN: BRLO-5956(239)

Consultant: Group Delta Consultants, Inc.

Contract No.: _____

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
			\$0.00
			\$0.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$0.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
			\$0.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$0.00
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	500	\$267.50
			\$0.00
TOTAL BUDGET			\$267.50
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Exploratory Drilling	\$2,500.00	1	\$2,500.00
Traffic Control	\$1,500.00	1	\$1,500.00
Drum Disposal	\$500.00	1	\$500.00
EDR Enviro Records Search	\$350.00	1	\$350.00
Permit Fees	\$100.00	1	\$100.00
Chemical Testing	\$1,500.00	1	\$1,500.00
SUBTOTAL COST			\$6,450.00
TOTAL ODCs			\$6,717.50

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Group Delta Consultants		SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chuckwalla Valley Road over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]			DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Shah Ghanbari, P.E.	Principal Geotechnical Engineer	4	@ \$111.43	\$445.72
Glenn Burks, Ph.D., P.E.	Principal Environmental Engineer	4	@ \$86.67	\$346.68
Curt Scheyhing, G.E.	Principal Geotechnical Engineer	8	@ \$63.76	\$510.08
Jack Packwood, CIH	Associate (Environmental)	20	@ \$50.87	\$1,017.40
	Senior Project Manager		\$48.90	
	Project Manager	34	@ \$35.40	\$1,203.60
	Staff Engineer	10	@ \$28.36	\$283.60
	Technician Geotechnical Laboratory	6	@ \$23.00	\$138.00
	Technician Hazardous Materials	15	@ \$27.78	\$416.70
	CADD	10	@ \$32.56	\$325.60
	Administrator	5	@ \$25.28	\$126.40

TOTAL HOURS **116** **TOTAL DIRECT LABOR** **\$4,813.78**

MULTIPLIERS

ESCALATION @	2.02%	(of Direct Labor)	\$97.24
FRINGE BENEFIT @	73.20%	(of Direct Labor + Escalation)	\$3,594.87
GENERAL AND ADMINISTRATIVE @	108.10%	(of Direct Labor + Escalation)	\$5,308.81
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,381.47
TOTAL MULTIPLIERS			\$10,382.38

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage and Travel	1	LS	@ \$267.50	\$267.50
Miscellaneous (Drilling, Traffic Control, Drum Disposal, EDR, Permit, Chemical Testing)	1	LS	@ \$6,450.00	\$6,450.00

TOTAL ODC'S **\$6,717.50**

TOTAL **\$21,913.66**

SUBCONSULTANT FEE PROPOSAL WORKSHEET		
COMPANY: Group Delta Consultants	SCOPE OF WORK: Plans, Specifications & Estimate (PS&E)	PHASE: Phase II
PROJECT: Replacement of Chuckwalla Valley Road over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Shah Ghanbari, P.E.	Principal Geotechnical Engineer	4	@	\$111.43	\$445.72
Glenn Burks, Ph.D., P.E.	Principal Environmental Engineer			\$86.67	
Curt Scheyhing, G.E.	Principal Geotechnical Engineer	5	@	\$63.76	\$318.80
Jack Packwood, CIH	Associate (Environmental)			\$50.87	
	Senior Project Manager			\$48.90	
	Project Manager	3	@	\$35.40	\$106.20
	Staff Engineer	4	@	\$28.36	\$113.44
	Technician Geotechnical Laboratory			\$23.00	
	Technician Hazardous Materials			\$27.78	
	CADD	5	@	\$32.56	\$162.80
	Administrator	1	@	\$25.28	\$25.28
TOTAL HOURS		22		TOTAL DIRECT LABOR	\$1,172.24

MULTIPLIERS

ESCALATION @	2.02%	(of Direct Labor)	\$23.68
FRINGE BENEFIT @	73.20%	(of Direct Labor + Escalation)	\$875.41
GENERAL AND ADMINISTRATIVE @	108.10%	(of Direct Labor + Escalation)	\$1,292.79
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$336.41
TOTAL MULTIPLIERS			\$2,528.29

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage and Travel		LS		
Miscellaneous (Drilling, Traffic Control, Drum Disposal, EDR, Permit, Chemical Testing)		LS		

TOTAL ODC'S

TOTAL **\$3,700.53**

SUBCONSULTANT MANHOOUR WORKSHEET

COMPANY: **Group Delta Consultants**
 PROJECT: **Replacement of Chuckwalla Valley Road over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]**
 PHASE: **Phase II**
 DATE: **March 27, 2017**

SCOPE OF WORK: **Plans, Specifications & Estimate (PS&E)**

PRINCIPAL GEOTECHNICAL ENGINEER	PRINCIPAL GEOTECHNICAL ENGINEER	PRINCIPAL GEOTECHNICAL ENGINEER	PRINCIPAL GEOTECHNICAL ENGINEER	ASSOCIATE (ENVIRONMENTAL) SENIOR PROJECT MANAGER	PROJECT MANAGER	STAFF ENGINEER	TECHNICAL LABORATORIAL	TECHNICAL LABORATORIAL	TECHNICAL LABORATORIAL	CADD	ADMINISTRATOR	HOURS	COST
\$351.76	\$273.60	\$201.28	\$160.59	\$154.37	\$111.75	\$89.53	\$72.61	\$87.70	\$102.79	\$79.80			

	4	5	3	4	5	1	22
Total Manhours	4	5	3	4	5	1	22
1.1 Project Management							
1.2 Project Team Meetings							
1.3 Quality Control and Quality Assurance (QC/QA)							
5.1 Foundation Design Report	4	5	3	4	5	1	22 \$ 3,701
5.2 Storm Water Pollution Prevention Plan (SWPPP)							
5.3 Utility Relocation Coordination							
5.4 65% Roadway Plans							
5.5 65% Signing, Striping and Detour Plans							
5.6 95% Civil Roadway PS&E							
5.7 Bridge Type Selection							
5.8 65% Unchecked Structure Plans							
5.9 Bridge Design Independent Check							
5.10 95% Structure PS&E							
5.11 Final 100% Design PS&E and Contract Bid Documents							
5.12 Right-of-Way Legal Descriptions and Plats (by County)							
5.13 Right-of-Way Appraisal and Acquisition (by County)							
6.0 Permitting							
6.1 ACOE Section 404 Nationwide Permit							
6.2 RWQCB Section 401 Water Quality Certification							
6.3 CDFW Section 1602 Streambed Alteration Agreement							
6.4 Caltrans Encroachment Permit (Step-2)							

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Group Delta Consultants	SCOPE OF WORK: Geotechnical and ISA	PHASE: All Phases
PROJECT: Replacement of Chuckwalla Valley Road over Tarrantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Shah Ghanbari, P.E.	Principal Geotechnical Engineer	8	@ \$111.43	\$891.44
Glenn Burks, Ph.D., P.E.	Principal Environmental Engineer	4	@ \$86.67	\$346.68
Curt Scheyhing, G.E.	Principal Geotechnical Engineer *	13	@ \$63.76	\$828.88
Jack Packwood, CIH	Associate (Environmental)	20	@ \$50.87	\$1,017.40
	Senior Project Manager		\$48.90	
	Project Manager	37	@ \$35.40	\$1,309.80
	Staff Engineer	14	@ \$28.36	\$397.04
	Technician Geotechnical Laboratory	6	@ \$23.00	\$138.00
	Technician Hazardous Materials	15	@ \$27.78	\$416.70
	CADD Administrator	15	@ \$32.56	\$488.40
		6	@ \$25.28	\$151.68

* Key Personnel

TOTAL HOURS **138** TOTAL DIRECT LABOR **\$5,986.02**

MULTIPLIERS

ESCALATION @	2.02%	(of Direct Labor)	\$120.92
FRINGE BENEFIT @	73.20%	(of Direct Labor + Escalation)	\$4,470.28
GENERAL AND ADMINISTRATIVE @	108.10%	(of Direct Labor + Escalation)	\$6,601.60
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,717.88
TOTAL MULTIPLIERS			\$12,910.68

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage and Travel	1	LS	@ \$267.50	\$267.50
Miscellaneous (Drilling, Traffic Control, Drum Disposal, EDR, Permit, Chemical Testing)	1	LS	\$6,450.00	\$6,450.00

TOTAL ODC'S **\$6,717.50**

TOTAL **\$25,614.20**

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS
REPLACEMENT OF CHUCKWALLA VALLEY ROAD BRIDGE OVER TARANTULA DITCH
(BR. NO. 56C0103)

FPN: BRLO-5956(227)

Consultant: Group Delta Consultants, Inc.

Contract No.: _____

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
			\$0.00
			\$0.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$0.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
			\$0.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$0.00
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	500	\$267.50
			\$0.00
TOTAL BUDGET			\$267.50
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Exploratory Drilling	\$2,500.00	1	\$2,500.00
Traffic Control	\$1,500.00	1	\$1,500.00
Drum Disposal	\$500.00	1	\$500.00
EDR Enviro Records Search	\$350.00	1	\$350.00
Permit Fees	\$100.00	1	\$100.00
Chemical Testing	\$1,500.00	1	\$1,500.00
SUBTOTAL COST			\$6,450.00
TOTAL ODCs			\$6,717.50

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Group Delta Consultants		SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chuckwalla Valley Road over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]			DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Shah Ghanbari, P.E.	Principal Geotechnical Engineer	4	@	\$111.43	\$445.72
Glenn Burks, Ph.D., P.E.	Principal Environmental Engineer	4	@	\$86.67	\$346.68
Curt Scheyhing, G.E.	Principal Geotechnical Engineer	8	@	\$63.76	\$510.08
Jack Packwood, CIH	Associate (Environmental)	20	@	\$50.87	\$1,017.40
	Senior Project Manager			\$48.90	
	Project Manager	34	@	\$35.40	\$1,203.60
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	Technician Geotechnical Laboratory	6	@	\$23.00	\$138.00
	Technician Hazardous Materials	15	@	\$27.78	\$416.70
	CADD	10	@	\$32.56	\$325.60
	Administrator	5	@	\$25.28	\$126.40

TOTAL HOURS 116 TOTAL DIRECT LABOR \$4,813.78

MULTIPLIERS

ESCALATION @	2.02%	(of Direct Labor)	\$97.24
FRINGE BENEFIT @	73.20%	(of Direct Labor + Escalation)	\$3,594.87
GENERAL AND ADMINISTRATIVE @	108.10%	(of Direct Labor + Escalation)	\$5,308.81
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,381.47
TOTAL MULTIPLIERS			\$10,382.38

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
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Miscellaneous (Drilling, Traffic Control, Drum Disposal, EDR, Permit, Chemical Testing)	1	LS	@	\$6,450.00	\$6,450.00

TOTAL ODC'S \$6,717.50

TOTAL **\$21,913.66**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Group Delta Consultants	SCOPE OF WORK: Plans, Specifications & Estimate (PS&E)	PHASE: Phase II
PROJECT: Replacement of Chuckwalla Valley Road over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Shah Ghanbari, P.E.	Principal Geotechnical Engineer	4	@ \$111.43	\$445.72
Glenn Burks, Ph.D., P.E.	Principal Environmental Engineer		\$86.67	
Curt Scheyhing, G.E.	Principal Geotechnical Engineer	5	@ \$63.76	\$318.80
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	Administrator	1	@ \$25.28	\$25.28
TOTAL HOURS		22	TOTAL DIRECT LABOR	\$1,172.24

MULTIPLIERS

ESCALATION @	2.02%	(of Direct Labor)	\$23.68
FRINGE BENEFIT @	73.20%	(of Direct Labor + Escalation)	\$875.41
GENERAL AND ADMINISTRATIVE @	108.10%	(of Direct Labor + Escalation)	\$1,292.79
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$336.41
TOTAL MULTIPLIERS			\$2,528.29

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage and Travel		LS		
Miscellaneous (Drilling, Traffic Control, Drum Disposal, EDR, Permit, Chemical Testing)		LS		

TOTAL ODC'S

TOTAL \$3,700.53

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Group Delta Consultants	SCOPE OF WORK: Geotechnical and ISA	PHASE: All Phases
PROJECT: Replacement of Chuckwalla Valley Road over Suro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Shah Ghanbari, P.E.	Principal Geotechnical Engineer	8	@	\$111.43	\$891.44
Glenn Burks, Ph.D., P.E.	Principal Environmental Engineer	4	@	\$86.67	\$346.68
Curt Scheyhing, G.E.	Principal Geotechnical Engineer *	13	@	\$63.76	\$828.88
Jack Packwood, CIH	Associate (Environmental)	20	@	\$50.87	\$1,017.40
	Senior Project Manager			\$48.90	
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	Administrator	6	@	\$25.28	\$151.68

* Key Personnel

TOTAL HOURS 138 TOTAL DIRECT LABOR \$5,986.02

MULTIPLIERS

ESCALATION @	2.02%	(of Direct Labor)	\$120.92
FRINGE BENEFIT @	73.20%	(of Direct Labor + Escalation)	\$4,470.28
GENERAL AND ADMINISTRATIVE @	108.10%	(of Direct Labor + Escalation)	\$6,601.60
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,717.88
TOTAL MULTIPLIERS			\$12,910.68

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Mileage and Travel	1	LS	@	\$267.50	\$267.50
Miscellaneous (Drilling, Traffic Control, Drum Disposal, EDR, Permit, Chemical Testing)	1	LS		\$6,450.00	\$6,450.00

TOTAL ODC'S \$6,717.50

TOTAL \$25,614.20

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS
REPLACEMENT OF CHUCKWALLA VALLEY ROAD BRIDGE OVER SUTRO DITCH
(BR. NO. 56C0104)

FPN: BRLO-5956(226)

Consultant: Group Delta Consultants, Inc.

Contract No.: _____

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
			\$0.00
			\$0.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$0.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
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SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Group Delta Consultants	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chuckwalla Valley Road over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Shah Ghanbari, P.E.	Principal Geotechnical Engineer	4	@	\$111.43	\$445.72
Glenn Burks, Ph.D., P.E.	Principal Environmental Engineer	4	@	\$86.67	\$346.68
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TOTAL ODC'S \$6,717.50

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SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Group Delta Consultants	SCOPE OF WORK: Plans, Specifications & Estimate (PS&E)	PHASE: Phase II
PROJECT: Replacement of Chuckwalla Valley Road over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]		DATE: March 27, 2017

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Miscellaneous (Drilling, Traffic Control, Drum Disposal, EDR, Permit, Chemical Testing)		LS		

TOTAL ODC'S

TOTAL \$3,700.53

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Group Delta Consultants	SCOPE OF WORK: Geotechnical and ISA	PHASE: All Phases
PROJECT: Replacement of Chuckwalla Valley Road over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Shah Ghanbari, P.E.	Principal Geotechnical Engineer	8	@ \$111.43	\$891.44
Glenn Burks, Ph.D., P.E.	Principal Environmental Engineer	4	@ \$86.67	\$346.68
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* Key Personnel

TOTAL HOURS 138 TOTAL DIRECT LABOR \$5,986.02

MULTIPLIERS

ESCALATION @	2.02%	(of Direct Labor)	\$120.92
FRINGE BENEFIT @	73.20%	(of Direct Labor + Escalation)	\$4,470.28
GENERAL AND ADMINISTRATIVE @	108.10%	(of Direct Labor + Escalation)	\$6,601.60
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,717.88
TOTAL MULTIPLIERS			\$12,910.68

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage and Travel	1	LS @	\$267.50	\$267.50
Miscellaneous (Drilling, Traffic Control, Drum Disposal, EDR, Permit, Chemical Testing)	1	LS @	\$6,450.00	\$6,450.00

TOTAL ODC'S \$6,717.50

TOTAL \$25,614.20

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS
REPLACEMENT OF CHUCKWALLA VALLEY ROAD BRIDGE OVER ACARI DITCH
(BR. NO. 56C0108)

FPN: BRLO-5956(225)

Consultant: Group Delta Consultants, Inc.

Contract No.: _____

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
			\$0.00
			\$0.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$0.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
			\$0.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$0.00
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	500	\$267.50
			\$0.00
TOTAL BUDGET			\$267.50
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Exploratory Drilling	\$2,500.00	1	\$2,500.00
Traffic Control	\$1,500.00	1	\$1,500.00
Drum Disposal	\$500.00	1	\$500.00
EDR Enviro Records Search	\$350.00	1	\$350.00
Permit Fees	\$100.00	1	\$100.00
Chemical Testing	\$1,500.00	1	\$1,500.00
SUBTOTAL COST			\$6,450.00
TOTAL ODCs			\$6,717.50

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Group Delta Consultants	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chuckwalla Valley Road over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Shah Ghanbari, P.E.	Principal Geotechnical Engineer	4	@ \$111.43	\$445.72
Glenn Burks, Ph.D., P.E.	Principal Environmental Engineer	4	@ \$86.67	\$346.68
Curt Scheyhing, G.E.	Principal Geotechnical Engineer	8	@ \$63.76	\$510.08
Jack Packwood, CIH	Associate (Environmental)	20	@ \$50.87	\$1,017.40
	Senior Project Manager		\$48.90	
	Project Manager	34	@ \$35.40	\$1,203.60
	Staff Engineer	10	@ \$28.36	\$283.60
	Technician Geotechnical Laboratory	6	@ \$23.00	\$138.00
	Technician Hazardous Materials	15	@ \$27.78	\$416.70
	CADD Administrator	10	@ \$32.56	\$325.60
		5	@ \$25.28	\$126.40
TOTAL HOURS		116	TOTAL DIRECT LABOR	\$4,813.78

MULTIPLIERS

ESCALATION @	2.02%	(of Direct Labor)	\$97.24
FRINGE BENEFIT @	73.20%	(of Direct Labor + Escalation)	\$3,594.87
GENERAL AND ADMINISTRATIVE @	108.10%	(of Direct Labor + Escalation)	\$5,308.81
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,381.47
TOTAL MULTIPLIERS			\$10,382.38

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage and Travel	1	LS @	\$267.50	\$267.50
Miscellaneous (Drilling, Traffic Control, Drum Disposal, EDR, Permit, Chemical Testing)	1	LS @	\$6,450.00	\$6,450.00
TOTAL ODC'S				\$6,717.50

TOTAL **\$21,913.66**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Group Delta Consultants	SCOPE OF WORK: Plans, Specifications & Estimate (PS&E)	PHASE: Phase II
PROJECT: Replacement of Chuckwalla Valley Road over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Shah Ghanbari, P.E.	Principal Geotechnical Engineer	4	@ \$111.43	\$445.72
Glenn Burks, Ph.D., P.E.	Principal Environmental Engineer		\$86.67	
Curt Scheyhing, G.E.	Principal Geotechnical Engineer	5	@ \$63.76	\$318.80
Jack Packwood, CIH	Associate (Environmental)		\$50.87	
	Senior Project Manager		\$48.90	
	Project Manager	3	@ \$35.40	\$106.20
	Staff Engineer	4	@ \$28.36	\$113.44
	Technician Geotechnical Laboratory		\$23.00	
	Technician Hazardous Materials		\$27.78	
	CADD	5	@ \$32.56	\$162.80
	Administrator	1	@ \$25.28	\$25.28
TOTAL HOURS		22	TOTAL DIRECT LABOR	\$1,172.24

MULTIPLIERS

ESCALATION @	2.02%	(of Direct Labor)	\$23.68
FRINGE BENEFIT @	73.20%	(of Direct Labor + Escalation)	\$875.41
GENERAL AND ADMINISTRATIVE @	108.10%	(of Direct Labor + Escalation)	\$1,292.79
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$336.41
TOTAL MULTIPLIERS			\$2,528.29

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage and Travel		LS		
Miscellaneous (Drilling, Traffic Control, Drum Disposal, EDR, Permit, Chemical Testing)		LS		

TOTAL ODC'S

TOTAL **\$3,700.53**

SUBCONSULTANT MANHOOUR WORKSHEET

COMPANY: Group Delta Consultants	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chuckwalla Valley Road over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)]		DATE: March 27, 2017

PRINCIPAL GEOTECHNICAL ENVIRONMENTAL ENGINEER	PRINCIPAL ENVIRONMENTAL ENGINEER	PRINCIPAL GEOTECHNICAL ENGINEER	ASSOCIATE ENVIRONMENTAL ENGINEER	SENIOR PROJECT MANAGER	PROJECT MANAGER	STAFF ENGINEER	TECHNICAL GEOTECHNICAL LABORATORY	TECHNICAL HAZARDOUS MATERIALS	CADD ADMINISTRATOR	HOURS	COST
\$351.76	\$273.60	\$201.28	\$160.59	\$154.37	\$111.75	\$89.53	\$72.61	\$87.70	\$102.79	\$79.80	

Total Manhours: 4 4 4 8 8 20 34 10 6 15 10 5 116

TASK	4	4	4	8	8	20	34	10	6	15	10	5	116
1.1 Project Management													
1.2 Project Team Meetings													
1.3 Quality Control and Quality Assurance (QC/QA)													
2.0 Research and Data Gathering													
2.1 Collect and Review Existing Information													
2.2 Conduct Field Review													
3.0 Preliminary Engineering													
3.1 Traffic Study (Technical Memorandum/Traffic Summary)													
3.2 Preliminary Utility Mapping													
3.3 Permits													
3.4 Surveying and Right-of-Way Mapping (by County)													
3.5 Preliminary Geotechnical Studies													
3.6 Right-of-Way Requirements Map													
3.7 Geometric Approval Drawings													
3.8 Structure Advance Planning Study													
3.9 Hydrologic, Hydraulic and Scour Studies													
3.10 Advisory and Mandatory Fact Sheets													
3.11 Engineer's Estimate													
4.0 Environmental Clearance & Documentation													
4.1 Project Initiation													
4.2 Preliminary Environmental Study (PES)													
4.3 Technical Studies													
4.3.1 Hazardous Waste (Initial Site Assessment)													
4.3.2 Preliminary Site Assessment (Step-2)													
4.3.3 Water Quality Assessment Studies													
4.3.4 Natural Environmental Study													
4.3.5 Wetland Delineation and Assessment													
4.3.6 Section 4(f) Evaluation (Individual Finding)													
4.3.7 Visual Resources (Visual Impact Assessment)													
4.3.8 Culture Resources Study (APE/ASR/HRER/HPSR)													
4.3.9A Finding of Effect (FoE) (Step-2)													

43 \$ 5,893

22 \$ 2,637

51 \$ 6,667

SUBCONSULTANT MANHOOUR WORKSHEET

COMPANY:

Group Delta Consultants

PROJECT:

Replacement of Chuckwalla Valley Road over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)]

SCOPE OF WORK:

Plans, Specifications & Estimate (PS&E)

PHASE:

Phase II

DATE:

March 27, 2017

PRINCIPAL GEOTECHNICAL ENGINEER	PRINCIPAL GEOTECHNICAL ENGINEER	PRINCIPAL ENVIRONMENTAL ENGINEER	PRINCIPAL ENVIRONMENTAL ENGINEER	PRINCIPAL GEOTECHNICAL ENGINEER	ASSOCIATE ENGINEER (ENVIRONMENTAL)	SENIOR PROJECT MANAGER	PROJECT MANAGER	STAFF ENGINEER	TECHNICAL LABORATOR	TECHNICAL MATERIALS	ADMINISTRATOR	HOURS	COST
\$351.76	\$273.60	\$201.28	\$160.59	\$154.37	\$111.75	\$69.53	\$72.61	\$87.70	\$102.79	\$79.80			

Total Manhours

	4	5	3	4	5	1	22
1.1 Project Management							
1.2 Project Team Meetings							
1.3 Quality Control and Quality Assurance (QC/QA)							
5.1 Foundation Design Report	4	5	3	4	5	1	22 \$ 3,701
5.2 Storm Water Pollution Prevention Plan (SWPPP)							
5.3 Utility Relocation Coordination							
5.4 65% Roadway Plans							
5.5 65% Signing, Striping and Detour Plans							
5.6 95% Civil Roadway PS&E							
5.7 Bridge Type Selection							
5.8 65% Unchecked Structure Plans							
5.9 Bridge Design Independent Check							
5.10 95% Structure PS&E							
5.11 Final 100% Design PS&E and Contract Bid Documents							
5.12 Right-of-Way Legal Descriptions and Plats (by County)							
5.13 Right-of-Way Appraisal and Acquisition (by County)							
6.0 Permitting							
6.1 ACOE Section 404 Nationwide Permit							
6.2 RWQCB Section 401 Water Quality Certification							
6.3 CDFW Section 1602 Streambed Alteration Agreement							
6.4 Caltrans Encroachment Permit (Step-2)							

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Water Quality	PHASE: All Phases
PROJECT: Replacement of Six Chuckwalla Valley Road and Railroad Avenue Bridges [BRLO-5956(228), BRLO-5956(229), BRLO-5956(239), BRLO-5956(227), BRLO-5956(226), BRLO-5956(225)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	328	@ \$39.00	\$12,792.00	
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst	66	@ \$42.75	\$2,821.50	
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director *	82	@ \$70.00	\$5,740.00	
SW Technical Support II	SW Technical Support II	198	@ \$25.00	\$4,950.00	
* Key Personnel					
		TOTAL HOURS	674	TOTAL DIRECT LABOR	\$26,303.50

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$725.98
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$15,568.98
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$29,164.81
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$7,176.33
TOTAL MULTIPLIERS			\$52,636.09

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mailing and Special Delivery	1	LS @	\$210.00	\$210.00
Mileage and Travel	1	LS @	\$1,155.60	\$1,155.60
Miscellaneous (CD or Thumb Drive)	1	LS @	\$60.00	\$60.00
TOTAL ODC'S				\$1,425.60

TOTAL **\$80,365.19**

EXHIBIT 10-H COST PROPOSAL
ACTUAL COST-PLUS-FIXED FEE OR LUMP SUM (FIRM FIXED PRICE) CONTRACTS
(CALCULATIONS FOR ANTICIPATED SALARY INCREASES)

Consultant CASC Engineering and Consulting Contract No. _____ Date 27-Mar-17

1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total hours)

Direct Labor Subtotal per Cost Proposal	Total Hours per Cost Proposal	=	Avg Hourly Rate	5 Year Contract Duration
\$26,304	674	=	\$39.03	Year 1 Avg Hourly Rate

2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)

	Avg Hourly Rate	+	Proposed Escalation	=	
Year 1	\$39.03	+	2.5%	=	\$40.00 Year 2 Avg Hourly Rate
Year 2	\$40.00	+	2.5%	=	\$41.00 Year 3 Avg Hourly Rate
Year 3	\$41.00	+	2.5%	=	\$42.03 Year 4 Avg Hourly Rate
Year 4	\$42.03	+	2.5%	=	\$43.08 Year 5 Avg Hourly Rate

3. Calculate estimated hours per year (Multiply estimate % each year by total hours)

	Estimated % Completed Each Year	*	Total Hours per Cost Proposal	=	Total Hours per Year	
Year 1	45.00%	*	674.0	=	303.3	Estimated Hours Year 1
Year 2	5.00%	*	674.0	=	33.7	Estimated Hours Year 2
Year 3	46.00%	*	674.0	=	310.0	Estimated Hours Year 3
Year 4	4.00%	*	674.0	=	27.0	Estimated Hours Year 4
Year 5	0.00%	*	674.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	674.0	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

	Avg Hourly Rate (calculated above)	*	Estimated hours (calculated above)	=	Cost per Year		
Year 1	\$39.03	*	303	=	\$11,836.80	Estimated Hours Year 1	
Year 2	\$40.00	*	34	=	\$1,348.08	Estimated Hours Year 2	
Year 3	\$41.00	*	310	=	\$12,712.39	Estimated Hours Year 3	
Year 4	\$42.03	*	27	=	\$1,133.06	Estimated Hours Year 4	
Year 5	\$41.35	*	0	=	\$0.00	Estimated Hours Year 5	
Total Direct Labor Cost with Escalation					=	\$27,030.34	
Direct Labor Subtotal before Escalation					=	\$26,304.00	
Estimated total of Direct Labor Salary Increase (Dollar Amount)					=	\$726.34	Transfer to Cost Proposal
Estimated total of Direct Labor Salary Increase (%)					=	2.76%	Transfer to Cost Proposal

NOTES:

- This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
- An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e. \$250,000 x 2% x 5 yrs = \$25,000 is not an acceptable methodology)
- This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS

REPLACEMENT OF SIX CHUCKWALLA VALLEY ROAD AND RAILROAD AVENUE BRIDGES
 FPN: BRLO-5956(228), BRLO-5956(229), BRLO-5956(239), BRLO-5956(227), BRLO-5956(226),
 BRLO-5956(225)

Consultant: CASC Engineering and Consulting

Contract No.: _____

Date: 27-Mar-17

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
		0	\$0.00
		0	\$0.00
		0	\$0.00
		0	\$0.00
		0	\$0.00
		0	\$0.00
		0	\$0.00
SUBTOTAL COST			\$0.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
		0	\$0.00
FedEx	\$35.00	6	\$210.00
		0	\$0.00
SUBTOTAL COST			\$210.00
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	2160	\$1,155.60
		0	\$0.00
TOTAL BUDGET			\$1,155.60
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
CD-ROM or Thumb Drive	\$5.00	12	\$60.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$60.00
TOTAL ODCs			\$1,425.60

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Six Chuckwalla Valley Road and Railroad Avenue Bridges [BRLO-5956(228), BRLO-5956(229), BRLO-5956(239), BRLO-5956(227), BRLO-5956(226), BRLO-5956(225)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	170	@ \$39.00	\$6,630.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst	42	@ \$42.75	\$1,795.50
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director *	44	@ \$70.00	\$3,080.00
SW Technical Support II	SW Technical Support II	78	@ \$25.00	\$1,950.00
* Key Personnel				
		TOTAL HOURS	334	TOTAL DIRECT LABOR
				\$13,455.50

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$371.37
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$7,964.28
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$14,919.19
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$3,671.03
TOTAL MULTIPLIERS			\$26,925.88

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mailing and Special Delivery	1	LS @	\$210.00	\$210.00
Mileage and Travel	1	LS @	\$1,155.60	\$1,155.60
Miscellaneous (CD or Thumb Drive)	1	LS @	\$60.00	\$60.00
TOTAL ODC'S				\$1,425.60

TOTAL **\$41,806.98**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Plans, Specifications & Estimate (PS&E)	PHASE: Phase II
PROJECT: Replacement of Six Chuckwalla Valley Road and Railroad Avenue Bridges [BRLO-5956(228), BRLO-5956(229), BRLO-5956(239), BRLO-5956(227), BRLO-5956(226), BRLO-5956(225)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	140	@ \$39.00	\$5,460.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst	24	@ \$42.75	\$1,026.00
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director	20	@ \$70.00	\$1,400.00
SW Technical Support II	SW Technical Support II	120	@ \$25.00	\$3,000.00
		TOTAL HOURS	304	TOTAL DIRECT LABOR
				\$10,886.00

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$300.45
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$6,443.40
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$12,070.18
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$2,970.00
TOTAL MULTIPLIERS			\$21,784.04

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (CD or Thumb Drive)		LS		

TOTAL ODC'S

TOTAL **\$32,670.04**

SUBCONSULTANT FEE PROPOSAL WORKSHEET		
COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Design Construction Supports	PHASE: Phase IV
PROJECT: Replacement of Six Chuckwalla Valley Road and Railroad Avenue Bridges [BRLO-5956(228), BRLO-5956(229), BRLO-5956(239), BRLO-5956(227), BRLO-5956(226), BRLO-5956(225)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	12	@	\$39.00	\$468.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst			\$42.75	
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director	12	@	\$70.00	\$840.00
SW Technical Support II	SW Technical Support II			\$25.00	

TOTAL HOURS 24 TOTAL DIRECT LABOR **\$1,308.00**

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$36.10
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$774.20
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$1,450.28
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$356.86
TOTAL MULTIPLIERS			\$2,617.45

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (CD or Thumb Drive)		LS		

TOTAL ODC'S

TOTAL \$3,925.45

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY

COMPANY:		CASC Engineering and Consulting	
PROJECT:		Replacement of Six Chuckwalla Valley Road and Railroad Avenue Bridges [BRLO-5956(228), BRLO-5956(239), BRLO-5956(227), BRLO-5956(226), BRLO-5956(225)]	
PHASE:		All Phases	
DATE:		March 27, 2017	

TASK	PROJECT ENGINEER	SR. ENV. ANALYST	ENGINEERING DIRECTOR	SW TECHNICAL SUPPORT II	HOURS

\$117.04 \$128.30 \$210.08 \$75.03

PHASE TOTALS	328	66	82	198	674
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PHASE I	170	42	44	78	334
PHASE II	140	24	20	120	304
PHASE III	6		6		12
PHASE IV	12		12		24

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: CASC Engineering and Consulting
 PROJECT: Replacement of Six Chuckwalla Valley Road and Railroad Avenue Bridges [BRLO-5956(226), BRLO-5956(228), BRLO-5956(229), BRLO-5956(239), BRLO-5956(227), BRLO-5956(226), BRLO-5956(225)]
 PHASE: Phase I
 DATE: March 27, 2017

TASK	PROJECT ENGINEER	SR. ENV. ANALYST	ENGINEERING DIRECTOR	SW TECHNICAL SUPPORT II	HOURS	COST
					170	\$117.04
					42	\$128.30
					44	\$210.08
					78	\$75.03
					334	

Total Manhours 170 42 44 78 334

TASK	PROJECT ENGINEER	SR. ENV. ANALYST	ENGINEERING DIRECTOR	SW TECHNICAL SUPPORT II	HOURS	COST
1.1 Project Management	8					
1.2 Project Team Meetings			8		16	\$ 2,617
1.3 Quality Control and Quality Assurance (QC/QA)						
2.0 Research and Data Gathering						
2.1 Collect and Review Existing Information						
2.2 Conduct Field Review						
3.0 Preliminary Engineering						
3.1 Traffic Study (Technical Memorandum/Traffic Summary)						
3.2 Preliminary Utility Mapping						
3.3 Permits						
3.4 Surveying and Right-of-Way Mapping (by County)						
3.5 Preliminary Geotechnical Studies						
3.6 Right-of-Way Requirements Map						
3.7 Geometric Approval Drawings						
3.8 Structure Advance Planning Study						
3.9 Hydrologic, Hydraulic and Scour Studies						
3.10 Advisory and Mandatory Fact Sheets						
3.11 Engineer's Estimate						
4.0 Environmental Clearance & Documentation						
4.1 Project Initiation						
4.2 Preliminary Environmental Study (PES)						
4.3 Technical Studies						
4.3.1 Hazardous Waste (Initial Site Assessment)						
4.3.2 Preliminary Site Assessment (Step-2)						
4.3.3 Water Quality Assessment Studies	162	42	36	78	318	\$ 37,764
4.3.4 Natural Environmental Study						
4.3.5 Wetland Delineation and Assessment						
4.3.6 Section 4(f) Evaluation (Individual Finding)						

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY: CASC Engineering and Consulting
 PHASE: Phase I
 PROJECT: Replacement of Six Chuckwalla Valley Road and Railroad Avenue Bridges [BRL0-5956(228), BRL0-5956(229), BRL0-5956(239), BRL0-5956(227), BRL0-5956(226), BRL0-5956(225)]
 DATE: March 27, 2017

TASK	PERSONNEL					HOURS	COST
	PROJECT ENGINEER	SR ENV ANALYST	ENGINEERING DIRECTOR	Sr TECHNICAL SUPPORT II			
4.3.7 Visual Resources (Visual Impact Assessment)							
4.3.8 Culture Resources Study (APE/ASR/HRER/HPSR)							
4.3.9A Finding of Effect (FoE) (Step-2)							
4.3.9B Section 106 Memorandum of Agreement (MOA) (Step 2)							
4.3.10 CEQA Notice of Exemption (NOE)							
4.5 CEQA/NEPA Initial Study/Environmental Assessment (IS/EA) (Step-2)							
4.5.1 Administrative Draft IS/EA							
4.5.2 Draft IS/EA for Public Review							

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Water Quality	PHASE: All Phases
PROJECT: Replacement of Railroad Avenue Bridge over Fomat Wash [Br. No. 56C0099, FPN BRLO-5956(228)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	56	@	\$39.00	\$2,184.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst	11	@	\$42.75	\$470.25
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director *	15	@	\$70.00	\$1,050.00
SW Technical Support II	SW Technical Support II	33	@	\$25.00	\$825.00
* Key Personnel					

TOTAL HOURS 115 TOTAL DIRECT LABOR \$4,529.25

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$125.01
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$2,680.85
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$5,021.94
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$1,235.71
TOTAL MULTIPLIERS			\$9,063.51

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Mailing and Special Delivery	1	LS	@	\$35.000	\$35.00
Mileage and Travel	1	LS		\$192.60	\$192.60
Miscellaneous (CD or Thumb Drive)	1	LS		\$10.00	\$10.00

TOTAL ODC'S \$237.60

TOTAL **\$13,830.36**

**ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS
REPLACEMENT OF RAILROAD AVENUE BRIDGE OVER FORNAT WASH
(BR. NO. 56C0099)**

FPN: BRLO-5956(228)

Consultant: CASC Engineering and Consulting

Contract No.: _____

Date: 27-Mar-17

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
		0	\$0.00
		0	\$0.00
		0	\$0.00
		0	\$0.00
		0	\$0.00
SUBTOTAL COST			\$0.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
		0	\$0.00
FedEx	\$35.00	1	\$35.00
		0	\$0.00
SUBTOTAL COST			\$35.00
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	360	\$192.60
		0	\$0.00
TOTAL BUDGET			\$192.60
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
CD-ROM or Thumb Drive	\$5.00	2	\$10.00
			\$0.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$10.00
TOTAL ODCs			\$237.60

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Railroad Avenue Bridge over Fomat Wash [Br. No. 56C0099, FPN BRLO-5956(228)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	29	@	\$39.00	\$1,131.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst	7	@	\$42.75	\$299.25
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director	8	@	\$70.00	\$560.00
SW Technical Support II	SW Technical Support II	13	@	\$25.00	\$325.00
TOTAL HOURS					57
TOTAL DIRECT LABOR					\$2,315.25

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$63.90
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$1,370.39
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$2,567.10
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$631.66
TOTAL MULTIPLIERS			\$4,633.06

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Mailing and Special Delivery	1	LS	@	\$35.00	\$35.00
Mileage and Travel	1	LS	@	\$192.60	\$192.60
Miscellaneous (CD or Thumb Drive)	1	LS	@	\$10.00	\$10.00
TOTAL ODC'S					\$237.60

TOTAL **\$7,185.91**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Plans, Specifications & Estimate (PS&E)	PHASE: Phase II
PROJECT: Replacement of Railroad Avenue Bridge over Fornat Wash [Br. No. 56C0099, FPN BRLO-5956(228)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	24	@ \$39.00	\$936.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst	4	@ \$42.75	\$171.00
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director	4	@ \$70.00	\$280.00
SW Technical Support II	SW Technical Support II	20	@ \$25.00	\$500.00

TOTAL HOURS **52** TOTAL DIRECT LABOR **\$1,887.00**

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$52.08
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$1,116.91
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$2,092.27
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$514.83
TOTAL MULTIPLIERS			\$3,776.09

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (CD or Thumb Drive)		LS		

TOTAL ODC'S

TOTAL **\$5,663.09**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Construction Bidding and Award Supports	PHASE: Phase III
PROJECT: Replacement of Railroad Avenue Bridge over Fornat Wash [Br. No. 56C0099, FPN BRLO-5956(228)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	1	@ \$39.00	\$39.00	
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst		\$42.75		
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director	1	@ \$70.00	\$70.00	
SW Technical Support II	SW Technical Support II		\$25.00		
		TOTAL HOURS	2	TOTAL DIRECT LABOR	\$109.00

MULTIPLIERS

ESCALATION @	2.76% (of Direct Labor)	\$3.01
FRINGE BENEFIT @	57.60% (of Direct Labor + Escalation)	\$64.52
GENERAL AND ADMINISTRATIVE @	107.90% (of Direct Labor + Escalation)	\$120.86
PROFIT (FIXED FEE) @	10.0% (of Direct Labor + Escalation + Overhead + Payroll Additives)	\$29.74
TOTAL MULTIPLIERS		\$218.12

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (CD or Thumb Drive)		LS		
		TOTAL ODC'S		

TOTAL **\$327.12**

SUBCONSULTANT MANHOURLY WORKSHEET SUMMARY

COMPANY: CASC Engineering and Consulting	PHASE: All Phases
PROJECT: Replacement of Railroad Avenue Bridge over Format Wash [Br. No. 56C0099, FPN BRLO-5956(228)]	DATE: March 27, 2017

TASK	PROJECT ENGINEER	SR. ENV. ANALYST	ENGINEERING DIRECTOR	SM TECHNICAL SUPPORT II	HOURS

\$117.04 \$128.30 \$210.08 \$75.03

PHASE TOTALS	56	11	15	33	115
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PHASE I	PHASE II	PHASE III	PHASE IV
29	7	8	13
24	4	4	20
1		1	2
2		2	4

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: CASC Engineering and Consulting
 PROJECT: Replacement of Railroad Avenue Bridge over Fomat Wash [Br. No. 56C0099, FPN BRLO-69556(228)]
 PHASE: Phase I
 DATE: March 27, 2017

TASK	PROJECT ENGINEER	SR ENV ANALYST	ENGINEERING DIRECTOR	SM TECHNICAL SUPPORT II	HOURS	COST
					29	\$117.04
					7	\$128.30
					8	\$210.08
					13	\$75.03
Total Manhours					57	

TASK	PROJECT ENGINEER	SR ENV ANALYST	ENGINEERING DIRECTOR	SM TECHNICAL SUPPORT II	HOURS	COST
1.1 Project Management						
1.2 Project Team Meetings	2				2	\$ 654
1.3 Quality Control and Quality Assurance (QC/QA)						
2.0 Research and Data Gathering						
2.1 Collect and Review Existing Information						
2.2 Conduct Field Review						
3.0 Preliminary Engineering						
3.1 Traffic Study (Technical Memorandum/Traffic Summary)						
3.2 Preliminary Utility Mapping						
3.3 Permits						
3.4 Surveying and Right-of-Way Mapping (by County)						
3.5 Preliminary Geotechnical Studies						
3.6 Right-of-Way Requirements Map						
3.7 Geometric Approval Drawings						
3.8 Structure Advance Planning Study						
3.9 Hydrologic, Hydraulic and Scour Studies						
3.10 Advisory and Mandatory Fact Sheets						
3.11 Engineer's Estimate						
4.0 Environmental Clearance & Documentation						
4.1 Project Initiation						
4.2 Preliminary Environmental Study (PES)						
4.3 Technical Studies						
4.3.1 Hazardous Waste (Initial Site Assessment)						
4.3.2 Preliminary Site Assessment (Step-2)						
4.3.3 Water Quality Assessment Studies	27	7	6	13	53	\$ 6,294
4.3.4 Natural Environmental Study						

SUBCONSULTANT MANHOURLY WORKSHEET

COMPANY: CASC Engineering and Consulting
 PROJECT: Replacement of Railroad Avenue Bridge over Format Wash [Br. No. 56C0099, FPN BRL0-5956(228)]
 PHASE: Phase I
 DATE: March 27, 2017

TASK	PROJECT ENGINEER	SR. ENV. ANALYST	ENGINEERING DIRECTOR	SM TECHNICAL SUPPORT II	HOURS	COST
4.3.5 Wetland Delineation and Assessment						
4.3.6 Section 4(f) Evaluation (Individual Finding)						
4.3.7 Visual Resources (Visual Impact Assessment)						
4.3.8 Culture Resources Study (APE/ASR/HRER/HPSR)						
4.3.9A Finding of Effect (FoE) (Step-2)						
4.3.9B Section 106 Memorandum of Agreement (MOA) (Step 2)						
4.3.10 CEQA Notice of Exemption (NOE)						
4.5 CEQA/NEPA Initial Study/Environmental Assessment (IS/EA) (Step-2)						
4.5.1 Administrative Draft IS/EA						
4.5.2 Draft IS/EA for Public Review						

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: CASC Engineering and Consulting
 PHASE: Phase II
 PROJECT: Replacement of Railroad Avenue Bridge over Format Wash [Br. No. 56C0099, FPN BRLO-5956(228)]
 DATE: March 27, 2017

PROJECT ENGINEER	SR ENV ANALYST	ENGINEERING DIRECTOR	SM TECHNICAL SUPPORT II
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\$117.04 \$128.30 \$210.08 \$75.03

Total Manhours 24 4 4 4 20 52

TASK	24	4	4	4	20	HOURS	COST
1.1 Project Management	2						
1.2 Project Team Meetings			2			4	\$ 654
1.3 Quality Control and Quality Assurance (QC/QA)							
5.1 Foundation Design Report							
5.2 Storm Water Pollution Prevention Plan (SWPPP)	22	4	2		20	48	\$ 5,009
5.3 Utility Relocation Coordination							
5.4 65% Roadway Plans							
5.5 65% Signing, Striping and Detour Plans							
5.6 95% Civil Roadway PS&E							
5.7 Bridge Type Selection							
5.8 65% Unchecked Structure Plans							
5.9 Bridge Design Independent Check							
5.10 95% Structure PS&E							
5.11 Final 100% Design PS&E and Contract Bid Documents							
5.12 Right-of-Way Legal Descriptions and Plats (by County)							
5.13 Right-of-Way Appraisal and Acquisition (by County)							
6.0 Permitting							
6.1 ACQE Section 404 Nationwide Permit							
6.2 RWQCB Section 401 Water Quality Certification							
6.3 CDFW Section 1602 Streambed Alteration Agreement							
6.4 Caltrans Encroachment Permit (Step 2)							

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Water Quality	PHASE: All Phases
PROJECT: Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	56	@ \$39.00	\$2,184.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst	11	@ \$42.75	\$470.25
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director *	15	@ \$70.00	\$1,050.00
SW Technical Support II	SW Technical Support II	33	@ \$25.00	\$825.00
* Key Personnel				

TOTAL HOURS 115 TOTAL DIRECT LABOR **\$4,529.25**

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$125.01
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$2,680.85
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$5,021.94
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$1,235.71
TOTAL MULTIPLIERS			\$9,063.51

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mailing and Special Delivery	1	LS @	\$35.00	\$35.00
Mileage and Travel	1	LS @	\$192.60	\$192.60
Miscellaneous (CD or Thumb Drive)	1	LS @	\$10.00	\$10.00

TOTAL ODC'S **\$237.60**

TOTAL **\$13,830.36**

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS
REPLACEMENT OF RAILROAD AVENUE BRIDGE OVER EAST CHANNEL STUBBE WASH
(BR. NO. 56C0101)

FPN: BRLO-5956(229)

Consultant: CASC Engineering and Consulting

Contract No.: _____

Date: 27-Mar-17

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
		0	\$0.00
		0	\$0.00
		0	\$0.00
		0	\$0.00
		0	\$0.00
SUBTOTAL COST			\$0.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
		0	\$0.00
FedEx	\$35.00	1	\$35.00
		0	\$0.00
SUBTOTAL COST			\$35.00
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	360	\$192.60
		0	\$0.00
TOTAL BUDGET			\$192.60
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
CD-ROM or Thumb Drive	\$5.00	2	\$10.00
			\$0.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$10.00
TOTAL ODCs			\$237.60

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	29	@	\$39.00	\$1,131.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst	7	@	\$42.75	\$299.25
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director	8	@	\$70.00	\$560.00
SW Technical Support II	SW Technical Support II	13	@	\$25.00	\$325.00
TOTAL HOURS					57
TOTAL DIRECT LABOR					\$2,315.25

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$63.90
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$1,370.39
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$2,567.10
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$631.66
TOTAL MULTIPLIERS			\$4,633.06

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Mailing and Special Delivery	1	LS	@	\$35.00	\$35.00
Mileage and Travel	1	LS	@	\$192.60	\$192.60
Miscellaneous (CD or Thumb Drive)	1	LS	@	\$10.00	\$10.00
TOTAL ODC'S					\$237.60

TOTAL **\$7,185.91**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Plans, Specifications & Estimate (PS&E)	PHASE: Phase II
PROJECT: Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	24	@ \$39.00	\$936.00	
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst	4	@ \$42.75	\$171.00	
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director	4	@ \$70.00	\$280.00	
SW Technical Support II	SW Technical Support II	20	@ \$25.00	\$500.00	
		TOTAL HOURS	52	TOTAL DIRECT LABOR	\$1,887.00

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$52.08
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$1,116.91
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$2,092.27
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$514.83
TOTAL MULTIPLIERS			\$3,776.09

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (CD or Thumb Drive)		LS		
				TOTAL ODC'S

TOTAL **\$5,663.09**

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY

COMPANY: CASC Engineering and Consulting

PROJECT: Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)]

PHASE: All Phases

DATE: March 27, 2017

TASK	PROJECT ENGINEER	SR ENV ANALYST	ENGINEERING DIRECTOR	SM TECHNICAL SUPPORT II	HOURS

PHASE TOTALS	56	11	15	33	115
PHASE I	29	7	8	13	57
PHASE II	24	4	4	20	52
PHASE III	1		1		2
PHASE IV	2		2		4

\$117.04 \$128.30 \$210.08 \$75.03

SUBCONSULTANT MANHOURLY WORKSHEET

COMPANY: CASC Engineering and Consulting
 PROJECT: Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5656(229)]
 PHASE: Phase I
 DATE: March 27, 2017

TASK	PROJECT ENGINEER	SR ENV ANALYST	ENGINEERING DIRECTOR	SM TECHNICAL SUPPORT II	HOURS		COST
4.3.6 Section 4(f) Evaluation (Individual Finding)							
4.3.7 Visual Resources (Visual Impact Assessment)							
4.3.8 Culture Resources Study (APE/ASR/HRER/HFSR)							
4.3.9A Finding of Effect (FoE) (Step-2)							
4.3.9B Section 106 Memorandum of Agreement (MOA) (Step 2)							
4.3.10 CEQA Notice of Exemption (NOE) Assessment (IS/EA) (Step-2)							
4.5.1 Administrative Draft IS/EA							
4.5.2 Draft IS/EA for Public Review							

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: CASC Engineering and Consulting

PROJECT: Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)]

PHASE: Phase II

DATE: March 27, 2017

TASK

PROJECT ENGINEER

SR ENV ANALYST

ENGINEERING DIRECTOR

SR TECHNICAL SUPPORT II

HOURS COST

\$117.04 \$128.30 \$210.08 \$75.03

Total Manhours	24	4	4	4	20	52
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Task Description	24	4	4	4	20	52
1.1 Project Management						
1.2 Project Team Meetings	2			2		4
1.3 Quality Control and Quality Assurance (QC/QA)						
5.1 Foundation Design Report						
5.2 Storm Water Pollution Prevention Plan (SWPPP)	22	4	2	2	20	48
5.3 Utility Relocation Coordination						
5.4 65% Roadway Plans						
5.5 65% Signing, Striping and Detour Plans						
5.6 95% Civil Roadway PS&E						
5.7 Bridge Type Selection						
5.8 65% Unchecked Structure Plans						
5.9 Bridge Design Independent Check						
5.10 95% Structure PS&E						
5.11 Final 100% Design PS&E and Contract Bid Documents						
5.12 Right-of-Way Legal Descriptions and Plats (by County)						
5.13 Right-of-Way Appraisal and Acquisition (by County)						
6.0 Permitting						
6.1 ACOE Section 404 Nationwide Permit						
6.2 RWQCB Section 401 Water Quality Certification						
6.3 CDFW Section 1602 Streambed Alteration Agreement						
6.4 Caltrans Encroachment Permit (Step 2)						

SUBCONSULTANT MANHOURLY WORKSHEET

COMPANY:

CASC Engineering and Consulting

PROJECT:

Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)]

PHASE:

Phase III

DATE:

March 27, 2017

TASK	PROJECT ENGINEER	SR. ENV. ANALYST	ENGINEERING DIRECTOR	SR. TECHNICAL SUPPORT II	HOURS	COST
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\$117.04 \$128.30 \$210.08 \$75.03

Total Manhours

1

1

1

1

2

7.1 Attend Pre-Bid Meeting

7.2 Bidding Interpretations, Bid Review and Analysis

1

1

1

1

2

\$

\$

327

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Water Quality	PHASE: All Phases
PROJECT: Replacement of Chuckwalla Valley Road over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	54	@	\$39.00	\$2,106.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst	11	@	\$42.75	\$470.25
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director *	13	@	\$70.00	\$910.00
SW Technical Support II	SW Technical Support II	33	@	\$25.00	\$825.00
* Key Personnel					

TOTAL HOURS 111 TOTAL DIRECT LABOR \$4,311.25

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$118.99
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$2,551.82
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$4,780.23
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$1,176.23
TOTAL MULTIPLIERS			\$8,627.27

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Mailing and Special Delivery	1	LS	@	\$35.00	\$35.00
Mileage and Travel	1	LS	@	\$192.60	\$192.60
Miscellaneous (CD or Thumb Drive)	1	LS	@	\$10.00	\$10.00

TOTAL ODC'S \$237.60

TOTAL **\$13,176.12**

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS
REPLACEMENT OF CHUCKWALLA VALLEY ROAD BRIDGE OVER AZTEC DITCH
(BR. NO. 56C0102)

FPN: BRLO-5956(239)

Consultant: **CASC Engineering and Consulting**

Contract No.:

Date: **27-Mar-17**

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
		0	\$0.00
		0	\$0.00
		0	\$0.00
		0	\$0.00
		0	\$0.00
SUBTOTAL COST			\$0.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
		0	\$0.00
FedEx	\$35.00	1	\$35.00
		0	\$0.00
SUBTOTAL COST			\$35.00
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	360	\$192.60
		0	\$0.00
TOTAL BUDGET			\$192.60
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
CD-ROM or Thumb Drive	\$5.00	2	\$10.00
			\$0.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$10.00
TOTAL ODCs			\$237.60

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chuckwalla Valley Road over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	28	@	\$39.00	\$1,092.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst	7	@	\$42.75	\$299.25
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director	7	@	\$70.00	\$490.00
SW Technical Support II	SW Technical Support II	13	@	\$25.00	\$325.00

TOTAL HOURS **55** TOTAL DIRECT LABOR **\$2,206.25**

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$60.89
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$1,305.87
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$2,446.25
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$601.93
TOTAL MULTIPLIERS			\$4,414.94

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Mailing and Special Delivery	1	LS	@	\$35.00	\$35.00
Mileage and Travel	1	LS	@	\$192.60	\$192.60
Miscellaneous (CD or Thumb Drive)	1	LS	@	\$10.00	\$10.00

TOTAL ODC'S **\$237.60**

TOTAL **\$6,858.79**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting		SCOPE OF WORK: Construction Bidding and Award Supports	PHASE: Phase III
PROJECT: Replacement of Chuckwalla Valley Road over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]		DATE: March 27, 2017	

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	1	@	\$39.00	\$39.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst			\$42.75	
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director	1	@	\$70.00	\$70.00
SW Technical Support II	SW Technical Support II			\$25.00	
		TOTAL HOURS	2	TOTAL DIRECT LABOR	\$109.00

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$3.01
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$64.52
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$120.86
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$29.74
TOTAL MULTIPLIERS			\$218.12

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (CD or Thumb Drive)		LS		

TOTAL ODC'S

TOTAL **\$327.12**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Design Construction Supports	PHASE: Phase IV
PROJECT: Replacement of Chuckwalla Valley Road over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	2	@	\$39.00	\$78.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst			\$42.75	
Jeff Endicott, P.E., BCEE, CPESC, QSD/P		2	@	\$70.00	\$140.00
SW Technical Support II	SW Technical Support II			\$25.00	
TOTAL HOURS					4
TOTAL DIRECT LABOR					\$218.00

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$6.02
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$129.03
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$241.71
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$59.48
TOTAL MULTIPLIERS			\$436.24

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (CD or Thumb Drive)		LS		
TOTAL ODC'S				

TOTAL \$654.24

SUBCONSULTANT MANHOURLY WORKSHEET SUMMARY

COMPANY:	CASC Engineering and Consulting	PHASE:	All Phases
PROJECT:	Replacement of Chuckwalla Valley Road over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]	DATE:	March 27, 2017

TASK	PROJECT ENGINEER	SR. ENV. ANALYST	ENGINEERING DIRECTOR	SR. TECHNICAL SUPPORT II	HOURS
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PHASE TOTALS	\$117.04	\$128.30	\$210.08	\$75.03	
	54	11	13	33	111

PHASE I	28	7	7	13	55
PHASE II	23	4	3	20	50
PHASE III	1		1		2
PHASE IV	2		2		4

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: CASC Engineering and Consulting
 PROJECT: Replacement of Chuckwalla Valley Road over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]
 PHASE: Phase I
 DATE: March 27, 2017

TASK	PROJECT ENGINEER	SR ENV ANALYST	ENGINEERING DIRECTOR	SM TECHNICAL SUPPORT I	HOURS	COST

\$117.04	\$128.30	\$210.08	\$75.03	28	7	7	13	55
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TASK	PROJECT ENGINEER	SR ENV ANALYST	ENGINEERING DIRECTOR	SM TECHNICAL SUPPORT I	HOURS	COST
1.1 Project Management	1					
1.2 Project Team Meetings		1				
1.3 Quality Control and Quality Assurance (QC/QA)						
2.0 Research and Data Gathering						
2.1 Collect and Review Existing Information						
2.2 Conduct Field Review						
3.0 Preliminary Engineering						
3.1 Traffic Study (Technical Memorandum/Traffic Summary)						
3.2 Preliminary Utility Mapping						
3.3 Permits						
3.4 Surveying and Right-of-Way Mapping (by County)						
3.5 Preliminary Geotechnical Studies						
3.6 Right-of-Way Requirements Map						
3.7 Geometric Approval Drawings						
3.8 Structure Advance Planning Study						
3.9 Hydrologic, Hydraulic and Scour Studies						
3.10 Advisory and Mandatory Fact Sheets						
3.11 Engineer's Estimate						
4.0 Environmental Clearance & Documentation						
4.1 Project Initiation						
4.2 Preliminary Environmental Study (PES)						
4.3 Technical Studies						
4.3.1 Hazardous Waste (Initial Site Assessment)						
4.3.2 Preliminary Site Assessment (Step-2)						
4.3.3 Water Quality Assessment Studies	27	7	6	13	53	\$ 6,294
4.3.4 Natural Environmental Study						
4.3.5 Wetland Delineation and Assessment						

SUBCONSULTANT MANHOURLY WORKSHEET

COMPANY: **CASC Engineering and Consulting**
 PHASE: **Phase I**
 PROJECT: **Replacement of Chuckwalla Valley Road over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]**
 DATE: **March 27, 2017**

TASK	PROJECT ENGINEER	SR ENV ANALYST	ENGINEERING DIRECTOR	SR TECHNICAL SUPPORT II	HOURS		COST
4.3.6 Section 4(f) Evaluation (Individual Finding)							
4.3.7 Visual Resources (Visual Impact Assessment)							
4.3.8 Culture Resources Study (APE/ASR/HRER/HPSR)							
4.3.9A Finding of Effect (FoE) (Step-2)							
4.3.9B Section 106 Memorandum of Agreement (MOA) (Step 2)							
4.3.10 CEQA Notice of Exemption (NOE) Assessment (IS/EA) (Step-2)							
4.5.1 Administrative Draft IS/EA							
4.5.2 Draft IS/EA for Public Review							

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: CASC Engineering and Consulting
 PROJECT: Replacement of Chuckwalla Valley Road over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]

PHASE: Phase II
 DATE: March 27, 2017

TASK:

PROJECT ENGINEER
 SR ENV ANALYST
 ENGINEERING DIRECTOR
 SW TECHNICAL SUPPORT II

HOURS COST

\$117.04 \$128.30 \$210.08 \$75.03

Total Manhours	23	4	3	20	50
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TASK	23	4	3	20	HOURS	COST
1.1 Project Management	1				2	\$ 327
1.2 Project Team Meetings			1			
1.3 Quality Control and Quality Assurance (QC/QA)						
5.1 Foundation Design Report						
5.2 Storm Water Pollution Prevention Plan (SWPPP)	22	4	2	20	48	\$ 5,009
5.3 Utility Relocation Coordination						
5.4 65% Roadway Plans						
5.5 65% Signing, Striping and Detour Plans						
5.6 95% Civil Roadway PS&E						
5.7 Bridge Type Selection						
5.8 65% Unchecked Structure Plans						
5.9 Bridge Design Independent Check						
5.10 95% Structure PS&E						
5.11 Final 100% Design PS&E and Contract Bid Documents						
5.12 Right-of-Way Legal Descriptions and Plats (by County)						
5.13 Right-of-Way Appraisal and Acquisition (by County)						
6.0 Permitting						
6.1 ACOE Section 404 Nationwide Permit						
6.2 RWQCB Section 401 Water Quality Certification						
6.3 CDFW Section 1602 Streambed Alteration Agreement						
6.4 Caltrans Encroachment Permit (Step 2)						

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Water Quality	PHASE: All Phases
PROJECT: Replacement of Chuckwalla Valley Road over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	54	@	\$39.00	\$2,106.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst	11	@	\$42.75	\$470.25
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director *	13	@	\$70.00	\$910.00
SW Technical Support II	SW Technical Support II	33	@	\$25.00	\$825.00
* Key Personnel					

TOTAL HOURS 111 TOTAL DIRECT LABOR \$4,311.25

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$118.99
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$2,551.82
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$4,780.23
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$1,176.23
TOTAL MULTIPLIERS			\$8,627.27

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Mailing and Special Delivery	1	LS	@	\$35.00	\$35.00
Mileage and Travel	1	LS	@	\$192.60	\$192.60
Miscellaneous (CD or Thumb Drive)	1	LS	@	\$10.00	\$10.00

TOTAL ODC'S \$237.60

TOTAL **\$13,176.12**

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS
REPLACEMENT OF CHUCKWALLA VALLEY ROAD BRIDGE OVER TARANTULA DITCH
(BR. NO. 56C0103)

FPN: BRLO-5956(227)

Consultant: **CASC Engineering and Consulting**

Contract No.:

Date: **27-Mar-17**

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
		0	\$0.00
		0	\$0.00
		0	\$0.00
		0	\$0.00
		0	\$0.00
SUBTOTAL COST			\$0.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
		0	\$0.00
FedEx	\$35.00	1	\$35.00
		0	\$0.00
SUBTOTAL COST			\$35.00
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	360	\$192.60
		0	\$0.00
TOTAL BUDGET			\$192.60
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
CD-ROM or Thumb Drive	\$5.00	2	\$10.00
			\$0.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$10.00
TOTAL ODCs			\$237.60

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chuckwalla Valley Road over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	28	@	\$39.00	\$1,092.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst	7	@	\$42.75	\$299.25
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director	7	@	\$70.00	\$490.00
SW Technical Support II	SW Technical Support II	13	@	\$25.00	\$325.00

TOTAL HOURS **55** TOTAL DIRECT LABOR **\$2,206.25**

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$60.89
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$1,305.87
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$2,446.25
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$601.93
TOTAL MULTIPLIERS			\$4,414.94

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Mailing and Special Delivery	1	LS	@	\$35.00	\$35.00
Mileage and Travel	1	LS	@	\$192.60	\$192.60
Miscellaneous (CD or Thumb Drive)	1	LS	@	\$10.00	\$10.00

TOTAL ODC'S **\$237.60**

TOTAL **\$6,858.79**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Plans, Specifications & Estimate (PS&E)	PHASE: Phase II
PROJECT: Replacement of Chuckwalla Valley Road over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	23	@ \$39.00	\$897.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst	4	@ \$42.75	\$171.00
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director	3	@ \$70.00	\$210.00
SW Technical Support II	SW Technical Support II	20	@ \$25.00	\$500.00

TOTAL HOURS 50 TOTAL DIRECT LABOR \$1,778.00

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$49.07
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$1,052.39
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$1,971.41
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$485.09
TOTAL MULTIPLIERS			\$3,557.97

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (CD or Thumb Drive)		LS		
	1			

TOTAL ODC'S

TOTAL \$5,335.97

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Construction Bidding and Award Supports	PHASE: Phase III
PROJECT: Replacement of Chuckwalla Valley Road over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	1	@ \$39.00	\$39.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst		\$42.75	
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director	1	@ \$70.00	\$70.00
SW Technical Support II	SW Technical Support II		\$25.00	
TOTAL HOURS				2
TOTAL DIRECT LABOR				\$109.00

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$3.01
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$64.52
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$120.86
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$29.74
TOTAL MULTIPLIERS			\$218.12

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (CD or Thumb Drive)		LS		
TOTAL ODC'S				

TOTAL \$327.12

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Design Construction Supports	PHASE: Phase IV
PROJECT: Replacement of Chuckwalla Valley Road over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	2	@ \$39.00	\$78.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst		\$42.75	
Jeff Endicott, P.E., BCEE, CPESC, QSD/P		2	@ \$70.00	\$140.00
SW Technical Support II	SW Technical Support II		\$25.00	
TOTAL HOURS				4
TOTAL DIRECT LABOR				\$218.00

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$6.02
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$129.03
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$241.71
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$59.48
TOTAL MULTIPLIERS			\$436.24

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (CD or Thumb Drive)		LS		
TOTAL ODC'S				

TOTAL **\$654.24**

SUBCONSULTANT MANHOURLY WORKSHEET

COMPANY: CASC Engineering and Consulting
 PROJECT: Replacement of Chuckwalla Valley Road over Tarrantula Ditch [Br. No. 56C0103, PFN BRLO-5956(227)]
 SCOPE OF WORK: Preliminary Engineering & Environmental Documentation
 PHASE: Phase I
 DATE: March 27, 2017

TASK	PROJECT ENGINEER	SR. ENV. ANALYST	ENGINEERING DIRECTOR	SM. TECHNICAL SUPPORT	HOURS	COST

Total Manhours	28	7	7	13	55	
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TASK	PROJECT ENGINEER	SR. ENV. ANALYST	ENGINEERING DIRECTOR	SM. TECHNICAL SUPPORT	HOURS	COST
1.1 Project Management						
1.2 Project Team Meetings	1				1	\$ 327
1.3 Quality Control and Quality Assurance (QC/QA)						
2.0 Research and Data Gathering						
2.1 Collect and Review Existing Information						
2.2 Conduct Field Review						
3.0 Preliminary Engineering						
3.1 Traffic Study (Technical Memorandum/Traffic Summary)						
3.2 Preliminary Utility Mapping						
3.3 Permits						
3.4 Surveying and Right-of-Way Mapping (by County)						
3.5 Preliminary Geotechnical Studies						
3.6 Right-of-Way Requirements Map						
3.7 Geometric Approval Drawings						
3.8 Structure Advance Planning Study						
3.9 Hydrologic, Hydraulic and Scour Studies						
3.10 Advisory and Mandatory Fact Sheets						
3.11 Engineer's Estimate						
4.0 Environmental Clearance & Documentation						
4.1 Project Initiation						
4.2 Preliminary Environmental Study (PES)						
4.3 Technical Studies						
4.3.1 Hazardous Waste (Initial Site Assessment)						
4.3.2 Preliminary Site Assessment (Step-2)						
4.3.3 Water Quality Assessment Studies	27	7	6	13	53	\$ 6,294
4.3.4 Natural Environmental Study						
4.3.5 Wetland Delineation and Assessment						
4.3.6 Section 4(f) Evaluation (Individual Finding)						
4.3.7 Visual Resources (Visual Impact Assessment)						
4.3.8 Culture Resources Study (APE/ASR/HRER/HPSR)						
4.3.9A Finding of Effect (FoE) (Step-2)						

SUBCONSULTANT MANHOURLY WORKSHEET

COMPANY: CASC Engineering and Consulting
 SCOPE OF WORK: Preliminary Engineering & Environmental Documentation
 PHASE: Phase I
 PROJECT: Replacement of Chuckwalla Valley Road over Tarrantula Ditch [Pr. No. 56C0103, FPN BRLO-5956(227)]
 DATE: March 27, 2017

TASK	PROJECT ENGINEER	SR ENV ANALYST	ENGINEERING DIRECTOR	SM TECHNICAL SUPPORT	HOURS		COST
4.3.9B Section 106 Memorandum of Agreement (MOA) (Step 2)							
4.3.10 CEQA Notice of Exemption (NOE)							
4.5 CEQA/NEPA Initial Study/Environmental Assessment (IS/EA) (Step-2)							
4.5.1 Administrative Draft IS/EA							
4.5.2 Draft IS/EA for Public Review							

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Water Quality	PHASE: All Phases
PROJECT: Replacement of Chuckwalla Valley Road over Suro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	54	@	\$39.00	\$2,106.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst	11	@	\$42.75	\$470.25
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director *	13	@	\$70.00	\$910.00
SW Technical Support II	SW Technical Support II	33	@	\$25.00	\$825.00
* Key Personnel					
		TOTAL HOURS	111	TOTAL DIRECT LABOR	\$4,311.25

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$118.99
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$2,551.82
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$4,780.23
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$1,176.23
TOTAL MULTIPLIERS			\$8,627.27

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Mailing and Special Delivery	1	LS	@	\$35.00	\$35.00
Mileage and Travel	1	LS	@	\$192.60	\$192.60
Miscellaneous (CD or Thumb Drive)	1	LS	@	\$10.00	\$10.00
TOTAL ODC'S					\$237.60

TOTAL **\$13,176.12**

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS
REPLACEMENT OF CHUCKWALLA VALLEY ROAD BRIDGE OVER SUTRO DITCH
(BR. NO. 56C0104)

FPN: BRLO-5956(226)

Consultant: CASC Engineering and Consulting

Contract No.: _____

Date: 27-Mar-17

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
		0	\$0.00
		0	\$0.00
		0	\$0.00
		0	\$0.00
		0	\$0.00
SUBTOTAL COST			\$0.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
		0	\$0.00
FedEx	\$35.00	1	\$35.00
		0	\$0.00
SUBTOTAL COST			\$35.00
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	360	\$192.60
		0	\$0.00
TOTAL BUDGET			\$192.60
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
CD-ROM or Thumb Drive	\$5.00	2	\$10.00
			\$0.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$10.00
TOTAL ODCs			\$237.60

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chuckwalla Valley Road over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	28	@	\$39.00	\$1,092.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst	7	@	\$42.75	\$299.25
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director	7	@	\$70.00	\$490.00
SW Technical Support II	SW Technical Support II	13	@	\$25.00	\$325.00
TOTAL HOURS					55
TOTAL DIRECT LABOR					\$2,206.25

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$60.89
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$1,305.87
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$2,446.25
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$601.93
TOTAL MULTIPLIERS			\$4,414.94

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Mailing and Special Delivery	1	LS	@	\$35.00	\$35.00
Mileage and Travel	1	LS	@	\$192.60	\$192.60
Miscellaneous (CD or Thumb Drive)	1	LS	@	\$10.00	\$10.00
TOTAL ODC'S					\$237.60

TOTAL **\$6,858.79**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Plans, Specifications & Estimate (PS&E)	PHASE: Phase II
PROJECT: Replacement of Chuckwalla Valley Road over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	23	@ \$39.00	\$897.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst	4	@ \$42.75	\$171.00
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director	3	@ \$70.00	\$210.00
SW Technical Support II	SW Technical Support II	20	@ \$25.00	\$500.00
TOTAL HOURS				50
TOTAL DIRECT LABOR				\$1,778.00

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$49.07
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$1,052.39
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$1,971.41
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$485.09
TOTAL MULTIPLIERS			\$3,557.97

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (CD or Thumb Drive)		LS		
TOTAL ODC'S				

TOTAL **\$5,335.97**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: CASC Engineering and Consulting	SCOPE OF WORK: Construction Bidding and Award Supports	PHASE: Phase III
PROJECT: Replacement of Chuckwalla Valley Road over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Chris Ogaz, EIT, CPESC, QSD/P	Project Engineer	1	@ \$39.00	\$39.00
Dan Secrist, CPESC, CESSWI, QSD/P	Sr. Env. Analyst		\$42.75	
Jeff Endicott, P.E., BCEE, CPESC, QSD/P	Engineering Director	1	@ \$70.00	\$70.00
SW Technical Support II	SW Technical Support II		\$25.00	

TOTAL HOURS 2 TOTAL DIRECT LABOR \$109.00

MULTIPLIERS

ESCALATION @	2.76%	(of Direct Labor)	\$3.01
FRINGE BENEFIT @	57.60%	(of Direct Labor + Escalation)	\$64.52
GENERAL AND ADMINISTRATIVE @	107.90%	(of Direct Labor + Escalation)	\$120.86
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$29.74
TOTAL MULTIPLIERS			\$218.12

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (CD or Thumb Drive)		LS		

TOTAL ODC'S

TOTAL **\$327.12**

SUBCONSULTANT MANHOURLY WORKSHEET SUMMARY

COMPANY:	CASC Engineering and Consulting	PHASE:	All Phases
PROJECT:	Replacement of Chuckwalla Valley Road over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]	DATE:	March 27, 2017

TASK	PROJECT ENGINEER	SR ENV ANALYST	ENGINEERING DIRECTOR	SM TECHNICAL SUPPORT II	HOURS
	\$117.04	\$128.30	\$210.08	\$75.03	

PHASE TOTALS	54	11	13	33	111
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PHASE I	28	7	7	13	55
PHASE II	23	4	3	20	50
PHASE III	1		1		2
PHASE IV	2		2		4

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:

CASC Engineering and Consulting

PROJECT:

Replacement of Chuckwalla Valley Road over Sutoro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]

PHASE:

Phase I

DATE:

March 27, 2017

TASK	PROJECT ENGINEER	SR. ENV. ANALYST	ENGINEERING DIRECTOR	SW/TECHNICAL SUPPORT II	HOURS	COST
4.3.6 Section 4(f) Evaluation (Individual Finding)						
4.3.7 Visual Resources (Visual Impact Assessment)						
4.3.8 Culture Resources Study (APE/ASR/HRER/HPSR)						
4.3.9A Finding of Effect (FoE) (Step-2)						
4.3.9B Section 106 Memorandum of Agreement (MOA) (Step 2)						
4.3.10 CEQA Notice of Exemption (NOE) Assessment (IS/EA) (Step-2)						
4.5.1 Administrative Draft IS/EA						
4.5.2 Draft IS/EA for Public Review						