

2.a	ADMINISTRATIVE BURDEN	DURATION	QTY	RATE	COST
	Cell Phone Service	Monthly	12	\$ 1,100	\$ 13,200
	Telephone Service	Monthly	12	\$ 900	\$ 10,800
	Office Supplies	Monthly	12	\$ 1,100	\$ 13,200
	Postal Services & Supplies	Monthly	12	\$ 750	\$ 9,000
	Ice / Water & Coffee Supplies	Monthly	12	\$ 1,000	\$ 12,000
	Dump Fees	Monthly	12	\$ 1,000	\$ 12,000
	SUBTOTAL				\$ 70,200
	5% MU				\$ 3,510
	TOTAL				\$ 73,710

2.b.	PUMP STATION MAINTENANCE	DURATION	QTY	RATE		COST
	Vehicle	Monthly	12	\$ 2,283	50%	\$ 13,695
	TOTAL					\$ 13,695

Note: The vehicle cost is split 50/50 between 2.b. & 2.e.

2.b.1	PUMP STATION SUPPLIES & REPAIRS				COST
	Repairs to Pumps (Minor repairs & parts)				\$ 15,000
	Environmental Supplies (Chemicals for water treatment)				\$ 10,000
	SUBTOTAL				\$ 25,000
	5% MU				\$ 1,250
	TOTAL				\$ 26,250

2.c.	AEI & OTHER MISC MAINTENANCE - AAR UNIT COUNT		QTY	RATE	COST
	AEI Technician	1,450 Hours			
	Vehicle				
	Materials		757	\$ 216	\$ 163,512
	Note: 5% Increase from 2017				
	TOTAL				\$ 163,512

2.e	GRAFFITI CONTROL	DURATION	QTY	RATE		COST
	Vehicle	Monthly	12	\$ 2,283	50%	\$ 13,695
	Material Costs *		LS			\$ 7,700
	SUBTOTAL					\$ 21,395
	5% MU*					\$ 385
	TOTAL					\$ 21,780

Note: The vehicle cost is split 50/50 between 2.b. & 2.e.

2.g.	SAFETY TRAINING	DURATION	QTY	RATE	COST
	Training (Classes and seminars)		LS		\$ 15,000
	Instructor Lodging & Meals	Days	5	\$ 2,000	\$ 10,000
	SUBTOTAL				\$ 25,000
	5% MU*				\$ 500
	TOTAL				\$ 25,500

2.h.	SAFETY MANAGEMENT		QTY	RATE	COST
	Safety Supplies & Equipment		LS		\$ 12,000
	Drug Testing - Employees		25	\$ 500	\$ 12,500
	SUBTOTAL				\$ 24,500
	5% MU*				\$ 625
	TOTAL				\$ 25,125

2.i.	VEHICLES	Monthly Rate	Registration	Insurance	Fuel Cost	Monthly Cost	YEARLY TOTAL
2.i.i	Contract Manager	\$ 1,400	\$ 31	\$ 100	\$ 600	\$ 2,131	\$ 25,572
2.i.ii	Track Superintendent*	\$ 2,426	\$ 56	\$ 100	\$ 750	\$ 3,332	\$ 39,984
2.i.iii	Welding Truck*	\$ 2,877	\$ 67	\$ 100	\$ 500	\$ 3,544	\$ 42,528
2.i.iv	Track Foreman*	\$ 2,392	\$ 64	\$ 100	\$ 500	\$ 3,056	\$ 36,672
2.i.v	Assistant Track Foreman*	\$ 2,426	\$ 41	\$ 100	\$ 500	\$ 3,067	\$ 36,804
2.i.vi	Track Inspector *	\$ 2,251	\$ 58	\$ 100	\$ 650	\$ 3,059	\$ 36,708
	SUBTOTAL						\$ 218,268
	5% MU (Contract Manager vehicle only)						\$ 1,279
	TOTAL						\$ 219,547

*Denotes Hi-Rail Vehicle

2.k		Monthly Rate	Registration	Insurance	Fuel Cost	Monthly Cost	YEARLY TOTAL
	Bridge Superintendent/Safety Vehicle	\$ 1,400	\$ 50	\$ 100	\$ 500	\$ 2,050	\$ 24,600
	TOTAL						\$ 24,600

2.l.		DURATION	QTY	RATE	COST
	Hi-Rail Boom Truck (used by track & signal forces)	Monthly	12	\$ 6,600	\$ 79,200
	Total				\$ 79,200

Annual budget based on existing Corridor Maintenance Contractor's estimate. Contract expires April 14, 2018. Budget does not represent commitment to existing Contractor. Estimate is subject to revision based on new contractor selection.

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2.m.	MAINTENANCE PROGRAM RAIL GRINDING-LORAM	DURATION	QTY	RATE	
	114 Stone Train	Days	2	\$ 50,000	\$ 100,000
	Fuel	Gallons	6,000	\$ 4	\$ 24,000
	Pre-Grinding Inspection	Days	1	\$ 15,000	\$ 15,000
	Mobilization		LS		\$ 20,000
	SUBTOTAL				\$ 159,000
	5% MU				\$ 7,950
	TOTAL				\$ 166,950

Note: This total is split 50/50 between Railroad M&O 2.m. & Capital 3.f. (\$83,475/each)

2.n.	TRACK MATERIALS / SUPPLIES & RENTALS	DURATION	QTY	RATE	
	Equipment Rental	Monthly	12	\$ 3,100	\$ 37,200
	Program Track Materials	Monthly	12	\$ 10,000	\$ 120,000
	Miscellaneous Track Materials	Monthly	12	\$ 3,000	\$ 36,000
	Curve Grease	Monthly	12	\$ 2,000	\$ 24,000
	Supplies & Consumables	Monthly	12	\$ 1,500	\$ 18,000
	SUBTOTAL				\$ 235,200
	5% MU				\$ 11,760
	TOTAL				\$ 246,960

2.o.	SIGNAL MAINTENANCE - AAR UNIT COUNTS		QTY	RATE	
	Signal Supervisor	1,560 Hours			
	Signal Engineer	728 Hours			
	Test Maintainer	1,872 Hours			
	Signal Maintainers (3)	2,080 Hours			
	Vehicles				
	Materials				
			4,901	\$ 216	\$ 1,058,616
	Note: 5% Increase from 2017				
	TOTAL				\$ 1,058,616

2.p.	LADDER / FENCE / TRAFFIC SUPPORT				
	Ladder Replacement Parts				\$ 10,000
	Traffic Support				\$ 10,000
	Fence Replacement/Repair				\$ 30,000
	SUBTOTAL				\$ 50,000
	5% MU				\$ 2,500
	TOTAL				\$ 52,500

2.q.	SECURITY (TRENCH CAMERAS)				
	Wire Replacement				\$ 5,000
	Motion Detector Replacement Parts				\$ 5,000
	Camera Replacement Parts				\$ 10,000
	SUBTOTAL				\$ 20,000
	5% MU				\$ 1,000
	TOTAL				\$ 21,000

2.r.	SECURITY & YARD/OFFICE MAINTENANCE & SUPPORT				
	Security Guard Services				\$ 150,000
	Janitorial Services				\$ 7,700
	HVAC & Building Maintenance (includes electrical, plumbing, and pest control)				\$ 27,500
	SUBTOTAL				\$ 185,200
	5% MU				\$ 9,260
	TOTAL				\$ 194,460

2.s.	UNDERWATER BRIDGE INSPECTION				
	Subcontractor				\$ 15,000
	SUBTOTAL				\$ 15,000
	5% MU				\$ 750
	TOTAL				\$ 15,750

2.t.	TRENCH DITCH CLEANING	DURATION	QTY	RATE	
	Assistant Foreman - BBII inside labor	Hours	240	\$ 53.03	\$ 12,727
	Track Laborer - BBII inside labor	Hours	240	\$ 49.88	\$ 11,971
	Hi-Rail Vac Truck	Days	30	\$ 2,450	\$ 73,500
	Flagging - BBII inside labor	Days	30	\$ 600	\$ 18,000
	TOTAL				\$ 116,198

Annual budget based on existing Corridor Maintenance Contractor's estimate. Contract expires April 14, 2018. Budget does not represent commitment to existing Contractor. Estimate is subject to revision based on new contractor selection.

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2.y. **POSITIVE TRAIN CONTROL (PTC) SUPPORT at CP W&E Redondo**

BBII Costs	\$ 3,500
SUBTOTAL	\$ 3,500
5% MU	\$ -
TOTAL	\$ 3,500

2.z. **EXTRAORDINARY RIGHT-OF-WAY CLEANUP**

Subcontractor	\$ 30,000
SUBTOTAL	\$ 30,000
5% MU	\$ 1,500
TOTAL	\$ 31,500

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2018 CAPITAL Program

3.a.	SURFACING PROGRAM	DURATION	QTY	RATE	
	Surfacing Unit - BBII outside labor & machinery	Days	45	\$ 4,600	\$ 207,000
	Mobilization		LS		\$ 25,000
	Note: All labor, equipment, and fuel included in daily rate				
	TOTAL				\$ 232,000

3.c.i.	REBALLAST PROGRAM	DURATION	QTY	RATE	
	Assistant Foreman - BBII inside labor	Hours	250	\$ 53.03	\$ 13,258
	Track Laborer - BBII inside labor	Hours	250	\$ 49.88	\$ 12,470
	TOTAL				\$ 25,728

3.c.ii	REBALLAST PROGRAM	DURATION	QTY	RATE	
	Operated Equipment	Hours	400	\$ 110	\$ 44,000
	TOTAL				\$ 44,000

3.f.	CAPITAL PROGRAM RAIL GRINDING-LORAM	DURATION	QTY	RATE	
	114 Stone Train	Days	2	\$ 50,000	\$ 100,000
	Fuel	Gallons	6,000	\$ 4	\$ 24,000
	Pre-Grinding Inspection	Days	1	\$ 15,000	\$ 15,000
	Mobilization		LS		\$ 20,000
	SUBTOTAL				\$ 159,000
	5% MU				\$ 7,950
	TOTAL				\$ 166,950

Note: This total is split 50/50 between Railroad M&O 2.m. & Capital 3.f. (\$83,475/each)

3.g	TRACK REBALLAST	DURATION	QTY	RATE	
	Equipment Rental*	Days	10	\$ 1,000	\$ 10,000
	Hi-Rail Vac Truck	Days	10	\$ 2,450	\$ 24,500
	Ballast Car Rental*	Days	10	\$ 300	\$ 3,000
	SUBTOTAL				\$ 37,500
	5% MU*				\$ 650
	TOTAL				\$ 38,150

3.h.	SWITCH COMPONENT REPLACEMENT (Frogs & Concrete Switch Ties)	QTY	RATE	
	#10 RBM Frogs	2	\$ 16,250	\$ 32,500
	#14 RBM Frogs	2	\$ 19,250	\$ 38,500
	#20 RBM Frogs	2	\$ 23,500	\$ 47,000
	#14 Switch Ties (2 L.H. & 2 R. H.)	4	\$ 9,096	\$ 36,385
	#20 Switch Ties (2 L.H. & 2 R. H.)	4	\$ 9,936	\$ 39,745
	Transportation & Tax	LS		\$ 22,000
	SUBTOTAL			\$ 216,130
	5% MU			\$ 10,807
	TOTAL			\$ 226,937

3.o	PUMP STATION UPGRADES			
	Carryover from 2017 - Phase 2, 3, & 4			\$ 30,000
	Phase 2, 3, & 4 - Additional Costs			\$ 20,000
	Replace Two Pumps at Greenleaf Pump Station			\$ 130,000
	Parts & Materials			\$ 40,000
	SUBTOTAL			\$ 220,000
	5% MU			\$ 11,000
	TOTAL			\$ 231,000

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3.w. REHAB HENRY FORD CROSSING @ CP DOMINGUEZ

Carryover from 2017		
Surfacing- BBII outside labor	\$	13,200
Labor- BBII inside labor	\$	30,000
Labor - BBII outside labor	\$	25,000
Welding - BBII inside labor	\$	10,000
Subject to 5% MU		
Rail, Ties, & Trim	\$	52,000
Concrete Crossing Panels (custom designed for curve)	\$	90,000
Rental Equipment	\$	20,000
Ballast & Fabric	\$	5,000
Consultants - as needed	\$	25,000
Paving & Track Subcontractors	\$	30,000
Traffic Permits & Mitigation	\$	40,000
Contingency	\$	10,000
Clean-up & Tie Disposal	\$	7,500
SUBTOTAL	\$	357,700
5% MU	\$	13,975
TOTAL	\$	371,675

Note: Engineering and Permit Costs (\$40K) included under Section III. Corridor Operating & Other MOW Cost of O&M Budget

3.aa. RETIE CRUCERO TO LB DIAMONDS WITH CONCRETE TIES

DURATION QTY RATE

Carryover from 2017				
Track Foreman - BBII inside labor	Hours	40	\$61.95	\$ 2,478
Track Laborers - BBII inside labor	Hours	130	\$49.88	\$ 6,484
Equipment Operators - BBII inside labor	Hours	80	\$79.01	\$ 6,321
Surfacing Unit - BBII outside labor & machinery	Days	2	\$4,600.00	\$ 9,200
SUBTOTAL				\$ 24,483
5% MU*				\$ -
TOTAL				\$ 24,483

3.bb. REPLACE NEW HOT BOX DETECTOR @ MP 12.9

Carryover from 2017		
HBD Converter		\$ 16,000
SUBTOTAL		\$ 16,000
5% MU*		\$ 800
TOTAL		\$ 16,800

3.gg. CURVE RAIL REPLACEMENT

MEASUREMENT QTY RATE

Subcontractor Labor, Equipment, & Materials	Linear Feet	6,000	\$ 45	\$ 270,000
SUBTOTAL				\$ 270,000
5% MU				\$ 13,500
TOTAL				\$ 283,500

3.hh. DIAMOND REPLACEMENTS - WEST THENARD

QTY RATE

Diamonds	4	\$ 110,000	\$ 440,000
Subcontractor Labor & Equipment - 2019 Work			\$ -
SUBTOTAL			\$ 440,000
5% MU			\$ 22,000
TOTAL			\$ 462,000

3.ii. SIGNAL CIRCUIT CONTROLLERS FOR SWITCHES (In Cycle)

DURATION QTY RATE

Subcontractor Labor, Equipment, & Materials	Yearly	5	\$ 6,000	\$ 30,000
SUBTOTAL				\$ 30,000
5% MU				\$ 1,500
TOTAL				\$ 31,500

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3.jj.	RETIE VARIOUS CONTROL POINTS WITH CONCRETE TIES	DURATION	QTY	RATE	
	Replace Wood Ties With Concrete Ties*		200	\$ 135	\$ 27,000
	Clips, Pads, & Insulators*		LS		\$ 5,000
	Track Foreman - BBII inside labor	Hours	40	\$ 61.95	\$ 2,478
	Track Laborers - BBII inside labor	Hours	160	\$ 49.88	\$ 7,981
	Equipment Operators - BBII inside labor	Hours	80	\$ 79.01	\$ 6,321
	Surfacing Unit - BBII outside labor & machinery	Days	3	\$ 4,600	\$ 13,800
	SUBTOTAL				\$ 62,580
	5% MU*				\$ 1,600
	TOTAL				\$ 64,180
3.kk.	UPGRADE AND REFURNISH MAINTENANCE FACILITY				
	Subcontractor Labor, Equipment, & Materials				\$ 15,000
	SUBTOTAL				\$ 15,000
	5% MU				\$ 750
	TOTAL				\$ 15,750
3.ii.	FIXED TRENCH LADDERS				
	Subcontractor Labor, Equipment, & Materials				\$ 35,000
	SUBTOTAL				\$ 35,000
	5% MU				\$ 1,750
	TOTAL				\$ 36,750
3.mm.	MISCELLANEOUS TRENCH STRUCTURE REPAIRS				
	Subcontractor Labor, Equipment, & Materials				\$ 60,000
	SUBTOTAL				\$ 60,000
	5% MU				\$ 3,000
	TOTAL				\$ 63,000