ALAMEDA CORRIDOR TRANSPORTATION AUTHORITY
3760 KILROY AIRPORT WAY, SUITE 200, LONG BEACH, CA 90806 – (562) 247-7777 • FAX (562) 247-7090

October 14, 2020

To: Parties listed on Exhibit A

Subject: Notice of Mutual Agreement No. 2020-4 - Request for Approval under Amended and Restated Alameda Corridor Use and Operating Agreement

Matter: Alameda Corridor Proposed Calendar Year 2021 Maintenance of Way and Operations & Maintenance Budgets

Dear Sir or Madam:

Reference is made to that certain Amended and Restated Alameda Corridor Use and Operating Agreement dated as of December 15, 2016 (the "Agreement"), by and among the BNSF Railway Company (BNSF), Union Pacific Railroad Company (UP), the City of Los Angeles, acting by and through its Board of Harbor Commissioners (POLA), the City of Long Beach, acting by and through its Board of Harbor Commissioners (POLB), and the Alameda Corridor Transportation Authority (ACTA).

The Agreement governs the use and operation of the Alameda Corridor and, among other things, contains provisions which require certain decisions to be made from time to time by either Mutual Agreement (as defined in the Agreement) or unanimous consent/approval. In particular, Mutual Agreement requires the approval from at least three of the following parties: BNSF, UP, POLB, and POLA, and unanimous consent/approval requires the approval of each of the same four entities. Pursuant to the terms of the Agreement, ACTA as an entity does not approve or disapprove Mutual Agreement matters.

Attached as Exhibit B is Notice of Mutual Agreement (NMA) No. 2020-4, for which approval by the requisite parties is requested at this time. The matter to be approved is described in the attached NMA (the "Matter"). Following consideration of the Matter, please email to ACTA a signed copy of the attached NMA (or, if such Matter is not approved by your entity, a written statement indicating such disapproval), no later than November 30, 2020. Once all responses are received, ACTA will send a letter to the four entities with the results.

If there are any questions, please advise.

Sincerely,

Michael Leue

Michael C. Leue, P.E.
Chief Executive Officer

EXHIBIT A

LIST OF PARTIES

Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733
Attn: Executive Director
Email: gene_seroka@portla.org

Port of Long Beach
415 W. Ocean Blvd., 11th Floor
Long Beach, CA 90802
Attn: Executive Director
Email: mario.cordero@polb.com

BNSF Railway Company
2500 Lou Menk Drive
AOG -Garden Level
Fort Worth, Texas 76131
Attn: Assistant Vice President - Contracts & Joint Facilities
Email: sarah.bailiff@bnsf.com

Union Pacific Railroad Company
1400 Douglas Street -Stop 1180
Omaha, Nebraska 68179
Attn: Director Joint Facilities
Email: melissagrosz@up.com

Cc:
Email: Brian.Aman@bnsf.com
Email: Katherine.Sieverson@bnsf.com
Email: jbarager@up.com
Email: tgioiello@portla.org
Email: HSok@portla.org
Email: hmccloskey@portla.org
Email: Lauren.Misajon@longbeach.gov
Email: David.Albers@longbeach.gov
Email: duane.kenagy@polb.com
Email: carlo.luzzi@polb.com

EXHIBIT B

NOTICE OF MUTUAL AGREEMENT

Number: 2020-4

Subject: Approval Request for the Alameda Corridor Proposed Calendar Year 2021 Maintenance of Way and Operations & Maintenance Budgets

Recommendation:

1. Approve 2021 Special Capital Items in the amount of $5,028,688 that will be charged to the Reserve Account and included in the proposed 2021 Maintenance of Way (MOW) Budget.
2. Approve the proposed 2021 MOW Budget in the amount of $13,899,014.
3. Approve the overall proposed 2021 Operations and Maintenance (O&M) Budget in the amount of $19,419,644, containing the MOW Budget, other estimated annual O&M expenses, and a $300,000 contingency.
4. Authorize ____

   ____
   [insert job title(s) or group/division name at Port or Railroad] with delegated authority to provide written approval of the allocation and use of the contingency fund and to provide written approval of the transfer of amounts from one MOW Budget line item to another as needed to accomplish work. Written approval can be in the form of an email affirming its approval.

Discussion:

Section 2.5(b) of the Amended and Restated Use and Operating Agreement, dated as of December 15, 2016, (the "Agreement") requires that the Ports and Railroads through Mutual Agreement approve an Annual Maintenance and Capital Improvement Plan and Budget prior to January 1 of each year. The Plan and Budget for 2021 are comprised of two documents.

1. The Maintenance of Way (MOW) Budget as prepared by the Maintenance Contractor, which includes the projected maintenance and capital costs to be incurred by the Contractor for the coming year.
2. The overall Operations and Maintenance (O&M) Budget, which incorporates the MOW Budget, as well as other estimated O&M expenses, including but not limited to insurance, dispatching, security, utilities, and support costs.

Attached for approval is the detail for both budgets for calendar year 2021.

The proposed 2021 MOW Budget was originally prepared in draft form by the Maintenance Contractor and submitted for review by the Railroads, the Ports, and ACTA. Two meetings among the staffs of the Railroads, Ports and ACTA were held on September 15 and 29, 2020 to review and modify as necessary the draft budget. Discussions during and after that meeting resulted in the attached MOW and O&M Budgets submitted for approval. Major items reviewed included allocation of costs between the Rail and Non-Rail maintenance categories, Capital Expenses made in accordance with the approved definition of Capital Expenses, and proposed Contractor staffing levels. The O&M Budget includes a $300,000 contingency to be allocated as necessary during the year for unbudgeted, under-budgeted, or unplanned emergency work.

Attachment 1 contains a description of the special 2021 capital expenditures included in the MOW Budget. Attachment 2 is the proposed 2021 MOW Budget spreadsheet and related detail. Attachment 3 is the proposed 2021 O&M Budget spreadsheet. It is recommended that each of these items be approved.

Summary Comparison - 2021 vs. 2020 MOW and O&M Budgets

MOW Budget

The proposed 2021 MOW Budget of $13,899,014 is 4.1% higher than the 2020 MOW Budget MOW Budget, primarily due to increased labor rates, additional labor positions, and additional maintenance and capital replacement activity. The funding of the proposed 2021 MOW Budget is split between ACTA fee revenue (about 60%) and payment by the Railroads (about 40%).

The proposed 2021 MOW Budget is divided into three categories: Labor Positions, Operations Maintenance, and Capital Costs. The Labor category is up 9.9% over the 2020 MOW Budget, due to addition of an administrative assistant position, an equipment operator and an approximate average annual salary increases of 3.5% for non-management positions (by union contract), an approximate average of 2.0% for management positions.

The Operations Maintenance category is up 13.6% from the 2020 MOW Budget, primarily due to increased rail grinding costs, Henry Ford Avenue crossing, Crucero diamond replacement and other maintenance.

The Capital Costs category is down -4.8% over the 2020 MOW Budget. Capital work can vary dramatically from year to year due to replacement needs. See Attachment 1 for 2021 special Capital Items. The 2021 Capital Costs decrease is primarily due to the completion of projects during 2020..

MOW Budget Summary *(in millions of dollars)*			
MOW Budget	**Proposed 2021**	**Amended 2020**	**% Change**
A. Labor	$3.896	$3.546	9.9%
B. Operations Maintenance	4.114	3.622	13.6%
C. Capital Costs	5.889	6.184	-4.8%
Total MOW	$13.889	$13.352	4.1%

O&M Budget

The proposed 2021 O&M Budget of $19,419,644, is the sum of the proposed 2021 MOW Budget of $13,899,014, a $300,000 contingency, and $5,220,630 in other costs. These other costs are about 0.7% above those in the 2020 O&M Budget. Only about 3.4% of these other costs is paid from ACTA fee revenue (Reserve Account), and about 96.6% is paid by the Railroads either directly or from deposits made to ACTA known as M&O charges. The proposed 2021 O&M Budget is 3.1% above the 2020 O&M Budget. Primarily due to the proposed 2021 MOW Budget increase described previously.

O&M Budget Summary *(in millions of dollars)*			
O&M Budget	**Proposed 2021**	**Amended 2020**	**% Change**
I. MOW Contractor (1)	$8.010	$7.168	11.8%
II. Capital Costs (2)	5.889	6.184	-4.8%
Contingency	0.300	0.300	0.0%
III. Operating & Other	5.221	5.185	0.7%
Total O&M	$19.420	$18.837	3.1%

(1) A+B from MOW Budget
(2) C from MOW Budget

<u>Items of Note:</u>

1. The proposed 2021 MOW Budget is prepared before the close of the previously approved 2020 MOW Budget period, and is based on estimates of where ongoing 2020 work will stand at year's end. Therefore, to the extent that certain 2020 work is not completed to the anticipated level, costs for that work may carry over into 2021 impacting the net 2021 expenditures.

2. Decisions regarding the use of the contingency fund were previously approved by the former Alameda Corridor Operating Committee. Because the Operating Committee no longer exists, delegation is sought pursuant to the aforementioned Recommendation No. 4 for a designated individual or designated individuals within each entity to be given authority to approve the allocation and use of contingency funds as needed for the MOW Budget, including unfunded and underfunded work. Further delegation is sought for such designated individual(s) to have authority to approve the shift of amounts from one MOW Budget line item to another as needed, provided that the total MOW Budget (which is the MOW contract value) plus the $300,000 contingency is not exceeded. Such delegated authority will provide additional budgetary flexibility and efficiency as to not hold up necessary operations work pending Board approval any time an individual estimated line item may be exceeded. Approvals from the designees of at least three of the four parties (BNSF, UP, POLB, and POLA) are required in advance to authorize the allocation and use of contingency funds and the transfer of MOW Budget line items from one line item to another. Note that such delegation was similarly approved for the 2020 MOW and O&M Budgets.
3. Budget Flexibility
    - Flexibility between line items shall remain within the same category: Labor, Operations Maintenance, or Capital unless otherwise authorized by at least 75% of the delegates.
    - Any anticipated overrun in the approved budget for a particular category shall be communicated by RailWorks and shall be authorized by at least 75% of the delegates named in Recommendation 4 of this NMA 2020-4 in advance of any overrun or transfer of budget funds.

    In summary, the budget is comprised of 3 sections: Labor, Operations Maintenance, or Capital. Flexibility between line items must remain within the same section. Finally, if there is an anticipated overrun in any of the three sections, there shall be a written communication by RailWorks to ACTA and a written approval by 75% of the delegates prior to incurring the cost. It is important to allow ACTA the flexibility to administer the RailWorks budget and the intent of these guidelines is to provide that flexibility, while protecting the Railroads and Ports from unexpected budget creep.

4. Reporting (Section 13.2 of the Alameda Corridor Maintenance Agreement)
    - RailWorks shall generate a quarterly report for budget status and projection;
    - RailWorks shall develop a rolling 5-year plan for maintenance programs and capital;
    - RailWorks shall develop a detailed report to support the manpower requirements for the annual budget.

Please provide your acceptance and approval by affixing your signature, name and title below:

Port of Los Angeles

By: ______________________________

Printed Name: ____________________

Title: ____________________________

Date: ____________________________

Port of Long Beach

By: ______________________________

Printed Name: ____________________

Title: ____________________________

Date: ____________________________

BNSF Railway Company

By: ______________________________

Printed Name: ____________________

Title: ____________________________

Date: ____________________________

Union Pacific Railroad Company

By: ______________________________

Printed Name: ____________________

Title: ____________________________

Date: ____________________________

Attachments:

1 – 2021 Special Capital Items
2 – Proposed 2021 MOW Budget and Detail
3 – Proposed 2021 O&M Budget

Attachment 1

2021 Special Capital Items

For 2021, the following Special Capital Items totaling $5,028,688 are budgeted within the $5,888,775 of Capital Costs, all of which will be charged to the Reserve Account.

1. Rail Grinding, Item 3.f. - $514,809

In 2021, it is proposed to grind all the switches and the mainline rail over a more extended period to optimize remaining useful life.

2. Replace 20 Frogs Item 3.h-2 - $771,002

There are approximately 125 switches on the Corridor. In 2021, 20 frogs will be replaced.

3. Replace Switch Point and Stock Rail Combinations Item 3.h-3 - $461,895

There are approximately 125 switches on the Corridor. In 2021, switch points and stock rail will be replaced at 20 locations.

4. Insulated Joint Replacement Item 3.h-5 - $456,541

Insulated joints will be replaced at 80 locations.

5. Pump Station Upgrades, Item 3.o. - $213,500

Maintenance of both pump stations in the trench over the past several years has included phased repair and/or replacement of various components. Each location has 11 pumps: 4 large, 3 medium, and 4 small. Beginning in 2018, in addition to routine maintenance of all pump station components, one large and one medium pump at each location will receive major overhaul or replacement each year.

6. Trench Emergency Ladder Repairs, Item 3.r. - $129,000

The 47 trench emergency ladders have and will continue to undergo upgrades to ensure they are in working order. This 2021 amount of $129,000 is the remaining balance of the $540,000 originally approved in 2014.

7. Rehab Henry Ford Crossing - Near PHL Offices N of BridgeItem 3.w.1 - $439,984

The track crossing at Henry Ford Avenue near PHL home yard is about 240 feet long and needs replacement due to settlement and deterioration of the underlying wood ties. It is planned to replace the entire crossing with new rail, concrete ties, and new concrete crossing panels.

8. Replace Signal Batteries, Item 3.y. - $110,000

There are approximately 30 signal houses on the Corridor, each containing an average of 30 batteries. The plan for 2021 is to replace about 180 of the 900 batteries. A ten-year plan is in place to incrementally replace all batteries.

9. Replace Crucero Diamonds, Item 3.aa-1 - $566,095

Replace two diamonds at CP Crucero and Long Beach Lead with concrete ties.

10. Curved Rail Replacement Item 3.gg-3 - $776,462

Rail on curves wears faster than rail in straight track, and must be replaced after excessive wear. Approximately 12,000 feet of curves will be replaced, which is about double that budget in recent years.

11. Fixed Trench Ladders Item 3.ll. - $420,000

A prototype fixed stairway was fabricated and installed in 2019 as adjunct emergency egress from the trench. The 47 drop ladders will remain in place. An additional 4 stairways are anticipated to be completed in 2019. An additional 4 will be installed in 2020 between Randolph St. in Vernon and Myrrh St. in Compton. A different design is needed north of Randolph St. due to closer strut spacing, which may necessitate one or two additional fixed stairways.

12. M23A Switch Machines Item 3.oo - $30,800

Two M23A switch machines will be purchased in 2021.

13. Signal Module Replacements, Item 3.pp. - $138,600

There are about 30 control points on the Corridor. It is proposed to replace modules at 5 locations per year over a six-year period. The existing modules are nearly 20 years old, which is near the end of their expected useful life, and the original manufacturer (|GE) will stop servicing these modules. Those pulled from service will be use as spares in the event of failures.

Attachment 2

Alameda Corridor - Proposed 2021 Maintenance of Way (MOW) Budget

A. LABOR		Positions	Needed Portion	EST Hours	2021 Hourly RATE	OT RATE	OT * VALUE	DT RATE	DT ** VALUE	2021 VALUE	Share	R.R. M & O Rail Cost	Hours	Share	Reserve Account Non-Rail Cost	Hours	Share	ACTA Operating Budget Cost	Hours	2020 Amended Approved Budget
MANAGEMENT POSITIONS																				
1.a.i	Contract Manager	1	100.0%	2000	$ 155.22	N/A	N/A	N/A	N/A	$ 310,439	70.0%	$ 217,307	1,400	25.0%	$ 77,610	500	5.0%	$ 15,522	100	$ 304,352
1.a.ii	Track Supervisor	1	100.0%	2000	$ 122.54	N/A	N/A	N/A	N/A	$ 245,083	75.0%	$ 183,813	1,500	25.0%	$ 61,271	500	0.0%	$ -	-	$ 240,278
1.a.iii	Safety Supervisor	1	100.0%	2000	$ 122.54	N/A	N/A	N/A	N/A	$ 245,083	20.0%	$ 49,017	400	80.0%	$ 196,067	1,600	0.0%	$ -	-	$ 240,278
1.a.iv	Office Manager	1	100.0%	2000	$ 57.19	N/A	N/A	N/A	N/A	$ 114,372	70.0%	$ 80,061	1,400	25.0%	$ 28,593	500	5.0%	$ 5,719	100	$ 112,130
1.a.vi	Office Assistant	1	100.0%	2000	$ 57.19	N/A	N/A	N/A	N/A	$ 114,372	20.0%	$ 22,874	400	80.0%	$ 91,498	1,600	0.0%	$ -	-	$ -
																			-	
STAFF POSITIONS																			-	
1.b	Track Inspector	1	100.0%	2000	$ 91.72	$ 123.60	$ 9,517.30	$ 155.48	$ 3,731.62	$ 196,686	75.0%	$ 147,514	1,500	25.0%	$ 49,171	500	0.0%	$ -	-	$ 190,081
1.b.i	Track Foreman	1	100.0%	2000	$ 91.72	$ 123.60	$ 9,517.30	$ 155.48	$ 3,731.62	$ 196,686	75.0%	$ 147,514	1,500	25.0%	$ 49,171	500	0.0%	$ -	-	$ 190,081
1.b.ii	Assistant Foreman	1	100.0%	2000	$ 90.22	$ 121.35	$ 9,343.88	$ 152.48	$ 3,659.55	$ 193,438	75.0%	$ 145,078	1,500	25.0%	$ 48,359	500	0.0%	$ -	-	$ 186,833
1.b.iii	Track Laborers	5	100.0%	2000	$ 84.21	$ 112.34	$ 43,251.12	$ 140.47	$ 16,856.37	$ 902,222	75.0%	$ 676,666	1,500	25.0%	$ 225,555	500	0.0%	$ -	-	$ 869,198
1.b.iv	Equipment Operators	1.5	100.0%	2000	$ 113.01	$ 152.80	$ 17,648.65	$ 192.59	$ 6,933.23	$ 363,625	75.0%	$ 272,719	1,500	25.0%	$ 90,906	500	0.0%	$ -	-	$ 235,335
1.b.v	Welder	2	100.0%	2000	$ 88.72	$ 119.10	$ 18,340.94	$ 149.48	$ 7,174.96	$ 380,379	100.0%	$ 380,379	2,000	0.0%	$ -	-	0.0%	$ -	-	$ 367,169
1.b.vi	Welder Helper	1	100.0%	2000	$ 84.21	$ 112.34	$ 8,650.22	$ 140.47	$ 3,371.27	$ 180,444	100.0%	$ 180,444	2,000	0.0%	$ -	-	0.0%	$ -	-	$ 173,840
1.b.vii	Laborer (Graffiti/Pump Station)	1	100.0%	2000	$ 84.21	$ 112.34	$ 8,650.22	$ 140.47	$ 3,371.27	$ 180,444	0.0%	$ -	-	100.0%	$ 180,444	2,000	0.0%	$ -	-	$ 173,840
1.b.ix	Track Superintendent	1	100.0%	2000	$ 127.15	$ 173.59	$ 13,366.36	$ 220.03	$ 5,280.67	$ 272,947	50.0%	$ 136,474	1,000	50.0%	$ 136,474	1,000	0.0%	$ -	-	$ 262,239
		19.5							SUBTOTAL A:	$ 3,896,221		$ 2,639,860	17,600		$ 1,235,120	10,200		$ 21,241	200	$ 3,545,653
									Approved CY2020 Amended Budget	$ 3,545,653		$ 2,314,456	16,200		$1,210,373	9,600		$20,824	200	$ 3,545,653
									Variance	$ 350,567		$ 325,404			$ 24,747			$ 416		$ -
									% Change	9.9%		14.1%			2.0%			2.0%		0.0%

* OT Value Based on Working 80 Hours of OT During Calendar Year = 3.85% of Base Hours

**DT Value Based on Working 24 Hours of DT During Year = 1.2% of Base Hours

B. OPERATIONS MAINTENANCE		2021	Share	R.R. M&O - Rail Cost	Hours	Share	Res. Acct. Non-Rail Cost	Hours	Share	ACTA Operating Budget Cost	Hours	2020
2.b	Pump Station Maintenance	$ 10,939	0.0%	$ -		100.0%	$ 10,939		0.0%	$ -		$ 5,862
2.b.i	Pump Station Repairs and Supplies (Subcontractor)	$ 31,050	0.0%	$ -		100.0%	$ 31,050		0.0%	$ -		$ 29,163
2.c	AEI & Other Misc. Maintenance (Subcontractor)	$ 307,232	62.3%	$ 191,344		0.0%	$ -		37.7%	$ 115,888		$ 294,722
2.d	Rail Flaw Detection (Subcontractor)	$ 52,763	100.0%	$ 52,763		0.0%	$ -		0.0%	$ -		$ 45,675
2.e	Graffiti Control	$ 24,139	0.0%	$ -		100.0%	$ 24,139		0.0%	$ -		$ 17,962
2.f	Weed Abatement (Subcontractor)	$ 61,380	80.0%	$ 49,104		20.0%	$ 12,276		0.0%	$ -		$ 56,640
2.g	Safety Training (Subcontractor)	$ 31,500	85.0%	$ 26,775		15.0%	$ 4,725		0.0%	$ -		$ 28,350
2.h	Safety Management	$ 24,750	85.0%	$ 21,038		15.0%	$ 3,713		0.0%	$ -		$ 23,100
2.i	Vehicles								0.0%			
2.i.i	Contract Manager Truck	$ 20,616	70.0%	$ 14,431		25.0%	$ 5,154		5.0%	$ 1,031		$ 20,208
2.i.ii	Track Supervisor Truck	$ 25,956	75.0%	$ 19,467		25.0%	$ 6,489		0.0%	$ -		$ 25,452
2.i.iii	Welding Truck	$ 72,384	100.0%	$ 72,384		0.0%	$ -		0.0%	$ -		$ 70,968
2.i.iv	Track Foreman Truck - HiRail	$ 67,512	75.0%	$ 50,634		25.0%	$ 16,878		0.0%	$ -		$ 33,096
2.i.v	Assistant Track Foreman Truck	$ 23,556	75.0%	$ 17,667		25.0%	$ 5,889		0.0%	$ -		$ 23,100
2.i.vi	Track Inspector Truck	$ 25,956	75.0%	$ 19,467		25.0%	$ 6,489		0.0%	$ -		$ 25,452
2.i.vii	Track Superintendent Truck	$ 25,769	0.0%	$ -		100.0%	$ 25,769		0.0%	$ -		$ 25,452
2.k	Safety Supervisor Truck	$ 11,961	20.0%	$ 2,392		80.0%	$ 9,569		0.0%	$ -		$ 11,724
2.l	Full-Time Equipment	$ 255,420	80.0%	$ 204,336		20.0%	$ 51,084		0.0%	$ -		$ 163,572
2.m	Maintenance Program Rail Grinding - (50% of Total Cost)	$ 514,809	100.0%	$ 514,809		0.0%	$ -		0.0%	$ -		$ 326,840
2.n	Track Materials / Supplies / Rentals	$ 386,760	100.0%	$ 386,760		0.0%	$ -		0.0%	$ -		$ 303,600
2.o	Signal Maintenance (Subcontractor)	$ 1,479,737	100.0%	$ 1,479,737		0.0%	$ -		0.0%	$ -		$ 1,407,437
2.p	Ladder / Fence / Traffic Support (Subcontractor)	$ 265,650	0.0%	$ -		100.0%	$ 265,650		0.0%	$ -		$ 265,650
2.q	Security - Trench Cameras	$ 25,630	70.0%	$ 17,941		25.0%	$ 6,408		5.0%	$ 1,282		$ 25,630
2.r	Security / Yard & Office Maintenance & Support (Subcontractor)	$ 207,900	100.0%	$ 207,900		0.0%	$ -		0.0%	$ -		$ 192,780
2.s	Underwater Bridge Inspection (Not until 2023)	$ -	100.0%	$ -		0.0%	$ -		0.0%	$ -		$ -
2.t	Trench Ditch Cleaning	$ 50,400	0.0%	$ -		100.0%	$ 50,400		0.0%	$ -		$ 50,400
2.v	Replace Signal Wire on the Corridor (Subcontractor)	$ 24,150	100.0%	$ 24,150		0.0%	$ -		0.0%	$ -		$ 24,150
2.w	Railroad Reporting and Record Keeping Software System (Subcontractor)	$ 42,000	100.0%	$ 42,000		0.0%	$ -		0.0%	$ -		$ 54,600
2.x	Railroad Emergency Drill Exercise	$ -	100.0%	$ -		0.0%	$ -		0.0%	$ -		$ 22,000
2.y	PTC Support at CP W & E Redondo - Finished by BBII in 2019	$ -	100.0%	$ -		0.0%	$ -		0.0%	$ -		$ -
2.aa	AEI Readers Upgrade (Subcontractor)	$ 10,500	100.0%	$ 10,500		0.0%	$ -		0.0%	$ -		$ 16,800
2.bb	Mobilization (Finished in 2019)	$ -	100.0%			0.0%			0.0%	$ -		$ -
2.cc	Bridge Management Plan (Finished in 2019)	$ -	20.0%	$ -		80.0%	$ -		0.0%	$ -		$ -
2.dd	Bridge Inspections (Subcontractor)	$ 33,600	20.0%	$ 6,720		80.0%	$ 26,880		0.0%	$ -		$ 31,500
	SUBTOTAL B:	$ 4,114,018		$ 3,432,318			$ 563,500			$ 118,200		$ 3,621,884
	Approved CY2020 Amended Budget	$3,621,884		$ 3,029,208			$ 519,062			$ 73,615		$3,621,884
	Variance	$ 492,134		$ 403,111			$ 44,438			$ 44,586		$ -
	% Change	13.6%		13.3%			8.6%			60.6%		0.0%

FBLR = Fully Burden Labor Rate

Attachment 2

C. CAPITAL COSTS				2021	Share	R.R. M&O - Rail Cost	Hours	Share	Res. Acct. Non-Rail Cost	Hours	Share	ACTA Operating Budget Cost	Hours	2020
3.a	Surfacing Unit - 70 Days @ $5,941.16/day			$ 415,881	0.0%	$ -		100.0%	$ 415,881		0.0%	$ -		$ 173,072
3.b	Surfacing Mobilization (Subcontractor)			$ 62,457	0.0%	$ -		100.0%	$ 62,457		0.0%	$ -		$ 42,203
3.c.i	Reballast Program - Labor			$ 109,712	0.0%	$ -		100.0%	$ 109,712		0.0%	$ -		$ 52,893
3.c.ii	Reballast Program - Operated Equipment			$ 150,737	0.0%	$ -		100.0%	$ 150,737		0.0%	$ -		$ 84,099
3.d	Reballast Program - 1000 Tons Ballast @ $53 per ton			$ 58,300	0.0%	$ -		100.0%	$ 58,300		0.0%	$ -		$ 24,750
3.f	Capital Program Rail Grinding - (50% of Total Cost)			$ 514,809	0.0%	$ -		100.0%	$ 514,809		0.0%	$ -		$ 326,840
3.h	Rail & Switch Component and Tie Replacement			$ -	0.0%	$ -		100.0%	$ -		0.0%	$ -		$ 214,500
3.h-2	Replace 20 Frogs			$ 771,002	0.0%	$ -		100.0%	$ 771,002		0.0%	$ -		$ 798,761
3.h-3	Replace 40 Switch Points and Stock Rails			$ 461,895	0.0%	$ -		100.0%	$ 461,895		0.0%	$ -		$ 674,547
3.h-4	Install Concrete Switch Ties			$ -	0.0%	$ -		100.0%	$ -		0.0%	$ -		$ 1,120,935
3.h-5	Insulated Joint Replacement			$ 456,541	0.0%	$ -		100.0%	$ 456,541		0.0%	$ -		$ -
3.o	Pump Station Upgrades (Subcontractor)			$ 213,500	0.0%	$ -		100.0%	$ 213,500		0.0%	$ -		$ 213,500
3.r	Trench Emergency Ladder, Stair Study, & Repairs (Subcontractor)			$ 129,000	0.0%	$ -		100.0%	$ 129,000		0.0%	$ -		$ 129,000
3.w	Rehab Henry Ford Crossing			$ -	0.0%	$ -		100.0%	$ -		0.0%	$ -		$ 415,398
3.w.1	Rehab Henry Ford Crossing - Near PHL Offices N of Bridge			$ 439,984	0.0%	$ -		100.0%	$ 439,984		0.0%	$ -		$ -
3.y	Signal Battery Replacement			$ 110,000	0.0%	$ -		100.0%	$ 110,000		0.0%	$ -		$ 55,000
3.aa-1	Replace Crucero Diamonds			$ 566,095	0.0%	$ -		100.0%	$ 566,095		0.0%	$ -		$ -
3.gg-3	Curve Rail Replacement (12,000' F & I)			$ 776,462	0.0%	$ -		100.0%	$ 776,462		0.0%	$ -		$ 954,797
3.kk	Upgrade and Refurbish Maintenance Facility (Subcontractor)			$ -	0.0%	$ -		100.0%	$ -		0.0%	$ -		$ 31,185
3.ll	Fixed Trench Ladders (Subcontractor)			$ 420,000	0.0%	$ -		100.0%	$ 420,000		0.0%	$ -		$ 420,000
3.mm	Miscellaneous Trench Structure Repairs (Subcontractor)			$ 63,000	0.0%	$ -		100.0%	$ 63,000		0.0%	$ -		$ 63,000
3.nn	Compton Bridges - Replace Deck Ties			$ -	0.0%	$ -		100.0%	$ -		0.0%	$ -		$ 183,750
3.oo	Replacement of M23A Switches			$ 30,800	0.0%	$ -		100.0%	$ 30,800		0.0%	$ -		$ 41,800
3.pp	Signal Module VHLC Replacements to XLC			$ 138,600	0.0%	$ -		100.0%	$ 138,600		0.0%	$ -		$ 132,000
3.pp-2	Install Repeater Antennae at Redondo			$ -	0.0%	$ -		100.0%	$ -		0.0%	$ -		$ 32,250
	SUBTOTAL C:			$ 5,888,775		$ -			$ 5,888,775			$ -		$ 6,184,281
	Approved CY2020 Amended Budget			$ 6,184,281		$ -			$ 6,184,281			$ -		$ 6,184,281
	Variance			$ (295,506)		$ -			$ (295,506)			$ -		$ -
	% Change			-4.8%					-4.8%					0.0%
	GRAND TOTAL A, B, C:			$ 13,899,014		$ 6,072,179			$ 7,687,395			$ 139,441		$ 13,351,819
	Approved CY2020 Amended Budget			$ 13,351,819		$ 5,343,664			$ 7,913,716			$ 94,439		$ 13,351,819
	Variance			$ 547,195		$ 728,514			$ (226,321)			$ 45,002		$ -
	% Change			4.1%		13.6%			-2.9%			47.7%		0.0%

Alameda Corridor - Proposed CY 2021 MOW Budget Detail

Cost Code		U of M	QTY		Rate	Split		Total
2.b	**Pump Station Maintenance**	**U of M**	**QTY**		**Rate**	**Split**		**Total**
	Vehicle (Split 50/50 between 2.b & 2.e)	Monthly	12	$	1,823.20	50%	$	10,939.20
						SUBTOTAL:	$	10,939.20
						Markup:	$	-
						TOTAL:	$	10,939.20
2.b.i	**Pump Station Repairs and Supplies**	**U of M**	**QTY**		**Rate**	**Split**		**Total**
	Subcontractor - Repairs to Pumps	LS	1	$	17,000.00	100%	$	17,000.00
	Environmental Supplies (Chemicals for water treatment)	LS	1	$	12,000.00	100%	$	12,000.00
							$	-
						SUBTOTAL:	$	29,000.00
			Subcontractor		5%	Markup:	$	850.00
			Supplies		10%	Markup:	$	1,200.00
						TOTAL:	$	31,050.00
2.c	**AEI & Other Miscellaneous Maintenance - AAR Unit Count**	**U of M**	**QTY**		**Rate**	**Split**		**Total**
	AEI / Comm Technician	HR	2000	$	104.44	100%	$	208,880.00
	AEI / Comm Technician - OT (Assumed 80 Hours)	HR	80	$	145.00	100%	$	11,600.00
	AEI / Comm Technician - DT (Assumed 16 Hours)	HR	16	$	195.00	100%	$	3,120.00
	Signal / Comm Supervisor	HR	200	$	120.00	100%	$	24,000.00
	Vehicle - AEI / Comm Technician	Monthly	96	$	12.58	100%	$	1,207.68
	Vehicle - Signal / Comm Supervisor	Monthly	12	$	2,163.49	100%	$	25,961.88
	Equipment - Bucket Truck	Monthly	12	$	173.40	100%	$	2,080.80
	Material Ongoing Purchases Total = LS (RWKS purchase)	LS	12	$	221.36	100%	$	2,656.32
	Material - Initial Inventory Purchase	LS	1	$	12,500.00	100%	$	12,500.00
						SUBTOTAL:	$	292,006.68
			Subcontractor		5%	Markup:	$	13,975.33
			Materials		10%	Markup:	$	1,250.00
						TOTAL:	$	307,232.01
2.d	**Rail Flaw Detection**	**U of M**	**QTY**		**Rate**	**Split**		**Total**
	Subcontractor - Mobilization	EA	3	$	3,750.00	100%	$	11,250.00
	Subcontractor - Daily Rate (3-day minimums)	EA	3	$	13,000.00	100%	$	39,000.00
							$	-
						SUBTOTAL:	$	50,250.00
			Subcontractor		5%	Markup:	$	2,512.50
						TOTAL:	$	52,762.50
2.e	**Graffiti Control**	**U of M**	**QTY**		**Rate**	**Split**		**Total**
	Vehicle (Split 50/50 between 2.b & 2.e)	Monthly	12	$	1,823.20	50%	$	10,939.20
	Materials	LS	1	$	12,000.00	100%	$	12,000.00
							$	-
						SUBTOTAL:	$	22,939.20
			Materials		10%	Markup:	$	1,200.00
						TOTAL:	$	24,139.20
2.f	**Weed Abatement**	**U of M**	**QTY**		**Rate**	**Split**		**Total**
	Subcontractor	LS	1	$	32,000.00	100%	$	32,000.00
	Disposal - Dumpsters @ 1 per month	EA	12	$	1,000.00	100%	$	12,000.00
	Specialty Equipment Rental	EA	12	$	1,100.00	100%	$	13,200.00
							$	-
						SUBTOTAL:	$	57,200.00
			Subcontractor		5%	Markup:	$	2,200.00
			Rental		15%	Markup:	$	1,980.00
						TOTAL:	$	61,380.00
2.g	**Safety Training**	**U of M**	**QTY**		**Rate**	**Split**		**Total**
	Subcontractor - Training (Classes and Seminars)	LS	1	$	17,500.00	100%	$	17,500.00
	Instructor Lodging and Meals	Days	5	$	2,500.00	100%	$	12,500.00
							$	-
						SUBTOTAL:	$	30,000.00
			Subcontractor		5%	Markup:	$	1,500.00
						TOTAL:	$	31,500.00

2.h	Safety Management	U of M	QTY		Rate	Split		Total
	Drug Testing - Employees	EA	30	$	750.00	100%	$	22,500.00
							$	-
						SUBTOTAL:	$	22,500.00
			Supplies		10%	Markup:	$	2,250.00
						TOTAL:	$	24,750.00

2.i	Vehicles	U of M	QTY		Rate	Split		Total
2.i.i	Contract Manager	Monthly	12	$	1,718.00	100%	$	20,616.00
2.i.ii	Track Supervisor - HiRail	Monthly	12	$	2,163.00	100%	$	25,956.00
2.i.iii	Welding Truck - HiRail	Monthly	12	$	6,032.00	100%	$	72,384.00
2.i.iv	Track Foreman - HiRail (2 Each)	Monthly	24	$	2,813.00	100%	$	67,512.00
2.i.v	Assistant Track Foreman - HiRail	Monthly	12	$	1,963.00	100%	$	23,556.00
2.i.vi	Track Inspector - HiRail	Monthly	12	$	2,163.00	100%	$	25,956.00
2.i.vii	Track Superintendent - HiRail	Monthly	12	$	2,147.39	100%	$	25,768.68
						SUBTOTAL:	$	261,748.68
						Markup:	$	-
						TOTAL:	$	261,748.68

2.k	Bridge Superintendent / Safety Vehicle	U of M	QTY		Rate	Split		Total
	Safety Supervisor Vehicle	Monthly	12	$	996.74	100%	$	11,960.88
						SUBTOTAL:	$	11,960.88
						Markup:	$	-
						TOTAL:	$	11,960.88

2.l	Full-Time Equipment	U of M	QTY		Rate	Split		Total
	Hi-Rail Grapple / Boom Truck	Monthly	12	$	9,252.00	100%	$	111,024.00
	Hi-Rail Bucket Truck	Monthly	12	$	4,653.00	100%	$	55,836.00
	Combination Backhoe	Monthly	12	$	7,380.00	100%	$	88,560.00
							$	-
						SUBTOTAL:	$	255,420.00
						Markup:	$	-
						TOTAL:	$	255,420.00

2.m	Maintenance Program Rail Grinding	U of M	QTY		Rate	Split		Total
	Special Trackwork Grinding Unit Mobilization	LS	1	$	84,000.00	100%	$	84,000.00
	Special Trackwork Grinding - Interval to be Determined Annually	Day	50	$	10,800.00	100%	$	540,000.00
	Crane for Mobilization and Demobilization	EA	2	$	7,500.00	100%	$	15,000.00
	Fuel	Gallons	12000	$	4.00	100%	$	48,000.00
	Pre-Grind Inspection Mobilization	LS	1	$	10,066.00	100%	$	10,066.00
	Pre-Grinding Inspections	Days	2	$	6,600.00	100%	$	13,200.00
	Signal Support	Days	60	$	936.16	100%	$	56,169.60
	Budget Carry Over from 2020 Planned Work Not Completed	LS	1	$	247,060.00	100%	$	247,060.00
							$	-
	Total is split 50/50 between R.R. M&O Cost and Capital					SUBTOTAL:	$	1,013,495.60
			Supplies		15%	Markup:	$	7,200.00
			Subcontractor		5%	Markup:	$	8,921.78
						TOTAL:	$	1,029,617.38

2.n	Track Materials / Supplies / Rentals	U of M	QTY		Rate	Split		Total
	Equipment Rental	Monthly	12	$	3,300.00	100%	$	39,600.00
	Program Track Materials - Pads, clips, insulator (non-capital)	Monthly	12	$	15,000.00	100%	$	180,000.00
	Miscellaneous Track Materials - Bolts, etc.	Monthly	12	$	4,500.00	100%	$	54,000.00
	Curve Grease - Grease and miscellaneous parts and pieces	Monthly	12	$	4,000.00	100%	$	48,000.00
	Supplies and Consumables - Welding, etc.	Monthly	12	$	2,500.00	100%	$	30,000.00
			0	$	-	100%	$	-
						SUBTOTAL:	$	351,600.00
			Materials / Supplies / Rentals		10%	Markup:	$	35,160.00
						TOTAL:	$	386,760.00

2.o	Signal Maintenance	U of M	QTY	Rate	Split	Total
	Signal / Comm Supervisor	HR	1800	$ 120.00	100%	$ 216,000.00
	Signal / Comm Supervisor - OT	HR	75	$ 161.00	100%	$ 12,075.00
	Signal / Comm Supervisor - DT	HR	25	$ 211.00	100%	$ 5,275.00
	Signal Engineer	HR	500	$ 120.00	100%	$ 60,000.00
	Signal Engineer - OT	HR	25	$ 161.00	100%	$ 4,025.00
	Signal Engineer - DT	HR	16	$ 211.00	100%	$ 3,376.00
	Signal Test Maintainer	HR	2000	$ 104.44	100%	$ 208,880.00
	Signal Test Maintainer - OT	HR	75	$ 145.00	100%	$ 10,875.00
	Signal Test Maintainer - DT	HR	25	$ 195.00	100%	$ 4,875.00
	Signal Maintainer	HR	6000	$ 104.44	100%	$ 626,640.00
	Signal Maintainer - OT	HR	225	$ 145.00	100%	$ 32,625.00
	Signal Maintainer - DT	HR	75	$ 195.00	100%	$ 14,625.00
	Vehicle - Signal / Comm Supervisor	Monthly	12	$ 1,560.60	100%	$ 18,727.20
	Vehicle - Signal Engineer	Monthly	12	$ 425.00	100%	$ 5,100.00
	Vehicle - Signal Test Maintainer	Monthly	12	$ 2,163.49	100%	$ 25,961.88
	Vehicle - Signal Maintainers (3)	Monthly	12	$ 6,490.47	100%	$ 77,885.64
	Vehicle - Signal Test Maintainer &/or Signal Maintainer for Call-Outs	HR	400	$ 12.58	100%	$ 5,032.00
	Vehicle -Sig/Comm Supv &/or Signal Engineer for Call-Outs	HR	100	$ 10.08	100%	$ 1,008.00
	Equipment - Bucket Truck	Monthly	12	$ 1,992.24	100%	$ 23,906.88
	Material Ongoing Purchases Total = LS (RWKS purchase)	LS	1	$ 50,000.00	100%	$ 50,000.00
					SUBTOTAL:	$ 1,406,892.60
		Subcontractor		5%	Markup:	$ 67,844.63
		Supplies		10%	Markup:	$ 5,000.00
					TOTAL:	$ 1,479,737.23

2.p	Ladder / Fence / Traffic Support	U of M	QTY	Rate	Split	Total
	Subcontractor					
	Subcontractor - Ladder Replacement Parts	LS	1	$ 11,000.00	100%	$ 11,000.00
	Traffic Support	LS	1	$ 32,000.00	100%	$ 32,000.00
	Fence Repair / Replacement	LS	1	$ 210,000.00	100%	$ 210,000.00
						$ -
					SUBTOTAL:	$ 253,000.00
		Subcontractor		5%	Markup:	$ 12,650.00
					TOTAL:	$ 265,650.00

2.q	Security - Trench Cameras	U of M	QTY	Rate	Split	Total
	Wire Replacement	LS	1	$ 5,500.00	100%	$ 5,500.00
	Motion Detector Replacement Parts	LS	1	$ 5,800.00	100%	$ 5,800.00
	Camera Replacement Parts	LS	1	$ 12,000.00	100%	$ 12,000.00
						$ -
					SUBTOTAL:	$ 23,300.00
		Supplies		10%	Markup:	$ 2,330.00
					TOTAL:	$ 25,630.00

2.r	Yard / Office Security / Maintenance / Support	U of M	QTY	Rate	Split	Total
	Subcontractor					
	Security Guard Services	Monthly	12	$ 14,000.00	100%	$ 168,000.00
	Janitorial Services	Monthly	12	$ 1,500.00	100%	$ 18,000.00
	HVAC and Building Maintenance (Electrical,Mechanical,Pest)	Monthly	12	$ 1,000.00	100%	$ 12,000.00
						$ -
					SUBTOTAL:	$ 198,000.00
		Subcontractor		5%	Markup:	$ 9,900.00
					TOTAL:	$ 207,900.00

2.s	Underwater Bridge Inspection	U of M	QTY	Rate	Split	Total
	Not needed until 2023	LS	0	$ -	100%	$ -
						$ -
					SUBTOTAL:	$ -
		Subcontractor		5%	Markup:	$ -
					TOTAL:	$ -

2.t	Trench Ditch Cleaning	U of M	QTY	Rate	Split	Total
	Track Foreman	Hours	0	$ 88.65	100%	$ -
	Track Foreman Truck	Hours	0	$ 16.03	100%	$ -
	Hi-Rail Vac	Weeks	4	$ 12,000.00	100%	$ 48,000.00
	Track Laborers	Hours	0	$ 81.14	100%	$ -
	Flagger	Days	0	$ 900.00	100%	$ -
						$ -
					SUBTOTAL:	$ 48,000.00
		Subcontractor		5%	Markup:	$ 2,400.00
					TOTAL:	$ 50,400.00

2.v	Replace Signal Wire on Corridor	U of M	QTY	Rate	Split	Total
	Subcontractor	LS	1	$ 23,000.00	100%	$ 23,000.00
						$ -
					SUBTOTAL:	$ 23,000.00
		Subcontractor		5%	Markup:	$ 1,150.00
					TOTAL:	$ 24,150.00

2.w	Railroad Reporting & Record Keeping Software System	U of M	QTY	Rate	Split	Total
	Subcontractor					
	Tier Based Management Fee	LS	1	$ 36,000.00	100%	$ 36,000.00
	Updates	LS	1	$ 4,000.00	100%	$ 4,000.00
						$ -
					SUBTOTAL:	$ 40,000.00
		Subcontractor		5%	Markup:	$ 2,000.00
					TOTAL:	$ 42,000.00

2.x	Railroad Emergency Drill Exercise	U of M	QTY	Rate	Split	Total
		LS	1		100%	$ -
					SUBTOTAL:	$ -
		Supplies		10%	Markup:	$ -
					TOTAL:	$ -

2.aa	AEI Readers Upgrade	U of M	QTY	Rate	Split	Total
	Subcontractor - Highball Signal	LS	1	$ 10,000.00	100%	$ 10,000.00
					SUBTOTAL:	$ 10,000.00
		Subcontractor		5%	Markup:	$ 500.00
					TOTAL:	$ 10,500.00

2.bb	Bridge Inspections	U of M	QTY	Rate	Split	Total
	Subcontractor - to be determined	LS	1	$ 32,000.00	100%	$ 32,000.00
					SUBTOTAL:	$ 32,000.00
		Subcontractor		5%	Markup:	$ 1,600.00
					TOTAL:	$ 33,600.00

Proposed CY2021 Capital Program

Cost Code

Cost Code	Item	U of M	QTY	Rate	Split	Total
3.a	**Surfacing Unit - 70 Days Total - INCREASE to 70**					
	Mark IV Tamper	Days	0	$ 1,178.57	100%	$ -
	Ballast Regulator	Days	0	$ 666.69	100%	$ -
	Tamper Operator Truck	Days	0	$ 100.63	100%	$ -
	Tamper Operator	Hours	0	$ 86.22	100%	$ -
	Ballast Regulator Operator	Hours	0	$ 86.22	100%	$ -
	Signal Support	Days	70	$ 936.16	100%	$ 65,531.20
	Subcontractor Tamping & Regulating - LazerWest	Days	70	$ 5,005.00	100%	$ 350,350.00
	Daily Rate = $5,941.16					
					SUBTOTAL:	$ 415,881.20
					Markup:	$ -
					TOTAL:	$ 415,881.20

Cost Code	Item	U of M	QTY	Rate	Split	Total
3.b	**Surfacing Unit Mobilization**					
	Subcontractor	LS	12	$ 4,000.00	100%	$ 48,000.00
	Tamper Operator	Hours	96	$ 113.01	100%	$ 10,849.38
	Tamper Operator Truck	Days	12	$ 100.63	100%	$ 1,207.56
						$ -
					SUBTOTAL:	$ 60,056.94
			Subcontractor	5%	Markup:	$ 2,400.00
					TOTAL:	$ 62,456.94

Cost Code	Item	U of M	QTY	Rate	Split	Total
3.c.i	**Reballast Program - Labor**					
	Track Foreman	Hour	256	$ 91.72	100%	$ 23,479.94
	Track Laborers (4 each)	Hour	1024	$ 84.21	100%	$ 86,232.49
						$ -
						$ -
					SUBTOTAL:	$ 109,712.44
					Markup:	$ -
					TOTAL:	$ 109,712.44

Cost Code	Item	U of M	QTY	Rate	Split	Total
3.c.ii	**Reballast Program - Operated Equipment**					
	Hi-Rail Dump	Hours	256	$ 35.09	100%	$ 8,983.04
	Hi-Rail Dump Mobilization (Subcontractor)	EA	2	$ 3,500.00	100%	$ 7,000.00
	Ballast Regulator	Hours	256	$ 83.34	100%	$ 21,335.04
	Ballast Regulator Mobilization (Subcontractor)	EA	2	$ 4,000.00	100%	$ 8,000.00
	Front End Loader	Hours	256	$ 36.83	100%	$ 9,428.48
	Front End Loader Mobilization (Subcontractor)	EA	2	$ 2,500.00	100%	$ 5,000.00
	Operator	Hours	768	$ 113.01	100%	$ 86,795.07
	Operator Truck	Hours	256	$ 12.48	100%	$ 3,194.88
					SUBTOTAL:	$ 149,736.51
			Subcontractor	5%	Markup:	$ 1,000.00
					TOTAL:	$ 150,736.51

Cost Code	Item	U of M	QTY	Rate	Split	Total
3.d	**Reballast Program - 1000 Tons Ballast**					
	Ballast	Ton	1000	$ 53.00	100%	$ 53,000.00
						$ -
					SUBTOTAL:	$ 53,000.00
			Materials	10%	Markup:	$ 5,300.00
					TOTAL:	$ 58,300.00

Cost Code	Item	U of M	QTY	Rate	Split	Total
3.f	**Capital Program Rail Grinding**					
	Special Trackwork Grinding Unit Mobilization	LS	1	$ 84,000.00	100%	$ 84,000.00
	Special Trackwork Grinding - Interval to be Determined Annually	Day	50	$ 10,800.00	100%	$ 540,000.00
	Crane for Mobilization and Demobilization	EA	2	$ 7,500.00	100%	$ 15,000.00
	Fuel	Gallons	12000	$ 4.00	100%	$ 48,000.00
	Pre-Grind Inspection Mobilization	LS	1	$ 10,066.00	100%	$ 10,066.00
	Pre-Grinding Inspections	Days	2	$ 6,600.00	100%	$ 13,200.00
	Signal Support	Days	60	$ 936.16	100%	$ 56,169.60
	Budget Carry Over from 2020 Planned Work Not Completed	LS	1	$ 247,060.00	100%	$ 247,060.00
	Total is split 50/50 between R.R. M&O Cost (2.m) and Capital				SUBTOTAL:	$ 1,013,495.60
			Supplies	15%	Markup:	$ 7,200.00
			Subcontractor	5%	Markup:	$ 8,921.78
					TOTAL:	$ 1,029,617.38

Cost Code	Item	U of M	QTY	Rate	Split	Total
3.h-2	**Replace 20 Frogs**					
	Weld Kits	EA	80	$ 125.00	100%	$ 10,000.00
	#10 RBM Frogs	EA	2	$ 18,000.00	100%	$ 36,000.00
	#14 RBM Frogs	EA	10	$ 22,000.00	100%	$ 220,000.00
	#20 RBM Frogs	EA	8	$ 27,000.00	100%	$ 216,000.00

RailWorks Outside Labor						
Track Foreman	Hour	160	$ 91.72	100%	$	14,674.97
Track Laborers	Hour	320	$ 84.21	100%	$	26,947.65
Equipment Operators	Hour	160	$ 113.01	100%	$	18,082.31
Foreman Truck	Hour	160	$ 16.36	100%	$	2,617.60
Pettibone	Hour	160	$ 42.91	100%	$	6,865.60
Welder	Hour	320	$ 88.72	100%	$	28,389.02
Welder Helper	Hour	320	$ 84.21	100%	$	26,947.65
Welder Truck	Hour	320	$ 35.07	100%	$	11,222.40
Flagger	Hour	320	$ 93.73	100%	$	29,993.60
Flagger Truck	Hour	320	$ 12.48	100%	$	3,993.60
Signal (Subcontractor - Highball Signal)	Day	20	$ 936.16	100%	$	18,723.20
Trucking (Subcontractor)	Day	40	$ 1,224.00	100%	$	48,960.00
				SUBTOTAL:	$	719,417.60
	Subcontractor		5%	Markup:	$	3,384.16
	Materials		10%	Markup:	$	48,200.00
				TOTAL:	$	771,001.76

3.h-3	Replace 40 Switch Points and Stock Rails	U of M	QTY	Rate	Split		Total
	Switch Points	EA	20	$ 7,200.00	100%	$	144,000.00
	Stock Rails	EA	20	$ 4,500.00	100%	$	90,000.00
	Weld Kits	EA	60	$ 125.00	100%	$	7,500.00
	RailWorks Outside Labor						
	Track Foreman	Hour	160	$ 91.72	100%	$	14,674.97
	Track Laborers	Hour	480	$ 84.21	100%	$	40,421.48
	Equipment Operators	Hour	320	$ 113.01	100%	$	36,164.61
	Pettibone	Hour	160	$ 42.06	100%	$	6,729.60
	Welder	Hour	160	$ 88.72	100%	$	14,194.51
	Welder Helper	Hour	160	$ 84.21	100%	$	13,473.83
	Foreman Truck	Hour	160	$ 16.36	100%	$	2,617.60
	Welder Truck	Hour	160	$ 35.07	100%	$	5,611.20
	Flagger	Hour	160	$ 93.73	100%	$	14,996.80
	Flagger Truck	Hour	160	$ 12.48	100%	$	1,996.80
	Signal (Subcontractor - Highball Signal)	Day	20	$ 936.16	100%	$	18,723.20
	Trucking (Subcontractor)	Day	20	$ 1,224.00	100%	$	24,480.00
					SUBTOTAL:	$	435,584.60
		Subcontractor		5%	Markup:	$	2,160.16
		Materials		10%	Markup:	$	24,150.00
					TOTAL:	$	461,894.76

3.h-5	Insulated Joint Replacement	U of M	QTY	Rate	Split		Total
	Foreman	Hour	160	$ 91.72	100%	$	14,674.97
	Laborers	Hour	480	$ 84.21	100%	$	40,421.48
	Operators	Hour	320	$ 113.01	100%	$	36,164.61
	Pettibone	Hour	160	$ 42.06	100%	$	6,729.60
	Welder	Hour	160	$ 88.72	100%	$	14,194.51
	Welder Helper	Hour	160	$ 84.21	100%	$	13,473.83
	Foreman Truck	Hour	160	$ 16.36	100%	$	2,617.60
	Welder Truck	Hour	160	$ 35.07	100%	$	5,611.20
	Flagger	Hour	160	$ 93.73	100%	$	14,996.80
	Flagger Truck	Hour	160	$ 12.48	100%	$	1,996.80
	Signal Support	Day	20	$ 936.16	100%	$	18,723.20
	Insulated Joints @ 40'	EA	80	$ 3,000.00	100%	$	240,000.00
	Weld Kits	EA	160	$ 125.00	100%	$	20,000.00
					SUBTOTAL:	$	429,604.60
		Subcontractor		5%	Markup:	$	936.16
		Materials		10%	Markup:	$	26,000.00
					TOTAL:	$	456,540.76

3.o	Pump Station Upgrades	U of M	QTY	Rate	Split		Total
	Replace 2 Pumps at Greenleaf (Subcontractor)	LS	1	$ 130,000.00	100%	$	130,000.00
	Parts and Materials	LS	1	$ 70,000.00	100%	$	70,000.00
			0	$ -	100%	$	-
					SUBTOTAL:	$	200,000.00
		Subcontractor		5%	Markup:	$	6,500.00
		Materials		10%	Markup:	$	7,000.00
					TOTAL:	$	213,500.00

3.r	Trench Emergency Ladder, Stair Study, & Repairs	U of M	QTY	Rate	Split		Total
	Subcontractor	LS	1	$ 60,000.00	100%	$	60,000.00
	Parts & Materials	LS	1	$ 60,000.00	100%	$	60,000.00

				SUBTOTAL:	$ 120,000.00
Subs		5%		Markup:	$ 3,000.00
Materials		10%		Markup:	$ 6,000.00
				TOTAL:	$ 129,000.00

3.w.1	Rehab Henry Ford Crossing - Near PHL Offices N of Bridge	U of M	QTY	Rate	Split	Total
	136RE, HH Rail (6 @ 80')	Tn	10.88	$ 1,400.00	100%	$ 15,232.00
	10' Wood Ties (240' @ 19.5" C-C = 130 each)	Ea	148	$ 100.00	100%	$ 14,800.00
	Cast Pandrol Plates (Need to know curvature through crossing & MGT)	Ea	300	$ 28.00	100%	$ 8,400.00
	Screw Spikes	Ea	1250	$ 4.50	100%	$ 5,625.00
	Galvanized E-Clips	Ea	650	$ 5.50	100%	$ 3,575.00
	Ballast ($45/tn)	Tn	360	$ 45.00	100%	$ 16,200.00
	Concrete Crossing Panels	TF	140	$ 300.00	100%	$ 42,000.00
	Weld Kits	Ea	14	$ 125.00	100%	$ 1,750.00
	Panel Handling Chains	Ea	1	$ 2,500.00	100%	$ 2,500.00
	Signal Conduit	LS	1	$ 3,000.00	100%	$ 3,000.00
	Fabric	SF	2640	$ 5.00	100%	$ 13,200.00
	RailWorks Outside Labor					
	Construct Panel					
	Track Foreman	Hour	24	$ 91.72	100%	$ 2,201.24
	Assistant Foreman	Hour	24	$ 90.22	100%	$ 2,165.21
	Welder	Hour	24	$ 88.72	100%	$ 2,129.18
	Welder Helper	Hour	24	$ 84.21	100%	$ 2,021.07
	Track Laborers	Hour	96	$ 84.21	100%	$ 8,084.30
	Equipment Operators	Hour	48	$ 113.01	100%	$ 5,424.69
	Rental Excavator	Week	0.5	$ 4,423.68	100%	$ 2,211.84
	Front End Loader	Hour	24	$ 36.11	100%	$ 866.64
	Foreman Truck	Hour	24	$ 16.03	100%	$ 384.72
	Welding Truck	Hour	24	$ 34.38	100%	$ 825.12
	Assistant Foreman Truck	Hour	24	$ 11.19	100%	$ 268.56
	Install During Outage					
	Track Foreman	Hour	24	$ 91.72	100%	$ 2,201.24
	Assistant Foreman	Hour	24	$ 90.22	100%	$ 2,165.21
	Welder	Hour	24	$ 88.72	100%	$ 2,129.18
	Welder Helper	Hour	24	$ 84.21	100%	$ 2,021.07
	Track Laborers	Hour	96	$ 84.21	100%	$ 8,084.30
	Equipment Operators	Hour	48	$ 113.01	100%	$ 5,424.69
	Rental Excavator	Week	0.5	$ 4,423.68	100%	$ 2,211.84
	Front End Loader	Hour	24	$ 36.11	100%	$ 866.64
	Assistant Foreman Truck	Hour	24	$ 16.03	100%	$ 384.72
	Welding Truck	Hour	24	$ 34.38	100%	$ 825.12
	Assistant Foreman Truck	Hour	24	$ 11.19	100%	$ 268.56
	Return to Tamp / Destress / Clean-Up Site					
	Track Foreman	Hour	8	$ 91.72	100%	$ 733.75
	Assistant Foreman	Hour	8	$ 90.22	100%	$ 721.74
	Welder	Hour	8	$ 88.72	100%	$ 709.73
	Welder Helper	Hour	8	$ 84.21	100%	$ 673.69
	Track Laborers	Hour	32	$ 84.21	100%	$ 2,694.77
	Equipment Operators	Hour	16	$ 113.01	100%	$ 1,808.23
	Rental Excavator	Week	0.5	$ 4,423.68	100%	$ 2,211.84
	Front End Loader	Hour	8	$ 36.11	100%	$ 288.88
	Foreman Truck	Hour	8	$ 16.03	100%	$ 128.24
	Welding Truck	Hour	8	$ 34.38	100%	$ 275.04
	Asst. Foreman Truck	Hour	8	$ 11.19	100%	$ 89.52
	Return to Tamp / Install & Weld Panels / Demobilization					
	Track Foreman	Hour	8	$ 91.72	100%	$ 733.75
	Assistant Foreman	Hour	8	$ 90.22	100%	$ 721.74
	Welder	Hour	8	$ 88.72	100%	$ 709.73
	Welder Helper	Hour	8	$ 84.21	100%	$ 673.69
	Track Laborers	Hour	32	$ 84.21	100%	$ 2,694.77
	Equipment Operators	Hour	16	$ 113.01	100%	$ 1,808.23
	Rental Excavator	Week	0.5	$ 4,423.68	100%	$ 2,211.84
	Front End Loader	Hour	8	$ 36.11	100%	$ 288.88
	Foreman Truck	Hour	8	$ 16.03	100%	$ 128.24
	Welding Truck	Hour	8	$ 34.38	100%	$ 275.04
	Assistant Foreman Truck	Hour	8	$ 11.19	100%	$ 89.52
	Surfacing Crew	Day	6	$ 5,005.00	100%	$ 30,030.00
	Flagger	Hour	64	$ 91.72	100%	$ 5,869.99
	Flagger Truck	Hour	64	$ 12.24	100%	$ 783.36
	Ballast Disposal Trucking (3 Hours per Load, 12 tn per load)	Hour	60	$ 150.00	100%	$ 9,000.00
	Ballast Disposal	Tn	240	$ 45.00	100%	$ 10,800.00
	Asphalt Disposal Trucking (3 Hours per Load, 12 tn per load)	Hour	48	$ 150.00	100%	$ 7,200.00
	Asphalt Disposal	Tn	230	$ 45.00	100%	$ 10,350.00
	Saw Cut Sub	LF	280	$ 10.00	100%	$ 2,800.00

Concrete Panel Disposal ($1000 per Load @ 5 Loads)	LS	1	$ 5,000.00	100%	$	5,000.00
Wood Tie Disposal	EA	150	$ 20.00	100%	$	3,000.00
Paving Contractor (Assume 140' L x 10' each side x 1' Depth)	Tn	230	$ 185.00	100%	$	42,550.00
Road Closure and Detours	LS	1	$ 40,000.00	100%	$	40,000.00
Engineering as Needed	LS	1	$ 20,000.00	100%	$	20,000.00
Front End Loader	Month	1	$ 6,500.00	100%	$	6,500.00
Signal Support	Day	5	$ 936.16	100%	$	4,680.80
Mobilizations - Loader	Ea	2	$ 2,400.00	100%	$	4,800.00
Mobilizations - Surfacing	Ea	1	$ 10,000.00	100%	$	10,000.00
Mobilizations - Excavator	Ea	2	$ 2,400.00	100%	$	4,800.00
Material Subtotal					**$**	**126,282.00**
Labor & Equipment Subtotal					**$**	**110,519.33**
Subcontractor Subtotal					**$**	**181,480.80**
				SUBTOTAL:	$	418,282.13
	Subcontractor		5%	Markup:	$	9,074.04
	Materials		10%	Markup:	$	12,628.20
				TOTAL:	$	439,984.37

3.y	**Signal Battery Replacement**	**U of M**	**QTY**	**Rate**	**Split**		**Total**
	Materials	Ea	2	$ 50,000.00	100%	$	100,000.00
					SUBTOTAL:	$	100,000.00
		Materials		10%	Markup:	$	10,000.00
					TOTAL:	$	110,000.00

3.aa-1	**Replace Crucero Diamonds**	**U of M**	**QTY**	**Rate**	**Split**		**Total**
	Labor, Equipment	EA	1	$ 200,000.00	100%	$	200,000.00
	Diamonds	EA	2	$ 150,000.00	100%	$	300,000.00
	Signal Support	Days	10	$ 936.16	100%	$	9,361.60
	Subcontractor Tamping & Regulating - LazerWest	Days	3	$ 5,005.00	100%	$	15,015.00
	Subcontractor Surfacing Mobilization	LS	1	$ 10,000.00	100%	$	10,000.00
						$	-
					SUBTOTAL:	$	534,376.60
			Sub	5%	Markup:	$	1,718.83
			Materials	10%	Markup:	$	30,000.00
			L & E	0%	Markup:	$	-
					TOTAL:	$	566,095.43

3.gg-3	**Curve Rail Replacement (12,000' F & I)**	**U of M**	**QTY**	**Rate**	**Split**		**Total**
	Rail - 12,000 LF (added 5% for waste cut-offs and consumption)	Ton	285.6	$ 1,400.00	100%	$	399,840.00
	Weld Kits - Two kits needed at each rail install location. Assume 25.	Ea	25	$ 125.00	100%	$	3,125.00
	RailWorks Outside Labor						
	Track Foreman	Hour	176	$ 91.72	100%	$	16,142.46
	Assistant Foreman	Hour	176	$ 90.22	100%	$	15,878.21
	Welder	Hour	176	$ 88.72	100%	$	15,613.96
	Welder Helper	Hour	176	$ 84.21	100%	$	14,821.21
	Laborers	Hour	1056	$ 84.21	100%	$	88,927.26
	Operators	Hour	352	$ 113.01	100%	$	39,781.08
	Pettibone	Hour	176	$ 42.91	100%	$	7,552.16
	Front End Loader	Hour	176	$ 36.83	100%	$	6,482.08
	Foreman Truck	Hour	176	$ 16.36	100%	$	2,879.36
	Welding Truck	Hour	176	$ 35.07	100%	$	6,172.32
	Asst. Foreman Truck	Hour	176	$ 11.41	100%	$	2,008.16
	CWR Rail Heater / Vibrator	Hour	96	$ 55.25	100%	$	5,304.00
	Rail Puller Hyd	Hour	96	$ 12.48	200%	$	2,396.16
	Rail Saw	Hour	96	$ 9.68	300%	$	2,787.84
	Mobile Power Pack	Hour	96	$ 9.68	400%	$	3,717.12
	Clipping Machine WB	Hour	96	$ 12.48	500%	$	5,990.40
	Flagger	Hour	176	$ 91.72	100%	$	16,142.46
	Flagger Truck	Hour	176	$ 12.48	100%	$	2,196.48
	Flash Weld Sub (Assume $8000 mobe)	LS	1	$ 8,000.00	100%	$	8,000.00
	Flash Weld Sub ($360 per weld)	Ea	154	$ 360.00	100%	$	55,440.00
	Signal - Highball Signal	Day	12	$ 936.16	100%	$	11,233.92
	12 Days for install, 6 days to weld, 1 day mobe plant, 3 days move and stage rail						
	Single location but will have to be welded and move in on a mini-rail train.						
					SUBTOTAL:	$	732,431.64
		Materials		10%	Markup:	$	40,296.50
		Subcontractor		5%	Markup:	$	3,733.70
					TOTAL:	$	776,461.84

3.ll	**Fixed Trench Ladders**	**U of M**	**QTY**	**Rate**	**Split**		**Total**
	Subcontractor Labor, Equipment & Materials	LS	4	$ 100,000.00	100%	$	400,000.00
						$	-

					SUBTOTAL:	$	400,000.00
		Subcontractor		5%	Markup:	$	20,000.00
					TOTAL:	$	420,000.00

3.mm	**Miscellaneous Trench Structure Repairs**	**U of M**	**QTY**	**Rate**	**Split**		**Total**
	Subcontractor - Labor, Equipment & Materials	LS	1	$ 60,000.00	100%	$	60,000.00
						$	-
					SUBTOTAL:	$	60,000.00
		Subcontractor		5%	Markup:	$	3,000.00
					TOTAL:	$	63,000.00

3.oo	**Replacement of M23A Switches**	**U of M**	**QTY**	**Rate**	**Split**		**Total**
	Subcontractor - Highball Signal - M23A Switches	EA	2	$ 14,000.00	100%	$	28,000.00
						$	-
					SUBTOTAL:	$	28,000.00
			Material	10%	Markup:	$	2,800.00
					TOTAL:	$	30,800.00

3.pp	**Signal Module VHLC Replacements to XLC - REPEAT FOR 3 LOCATI(**	**U of M**	**QTY**	**Rate**	**Split**		**Total**
	Materials - New XLC Module	Ea	3	$ 33,000.00	100%	$	99,000.00
	Design Changes and Prints	Ea	3	$ 3,500.00	100%	$	10,500.00
	Software + Engineering	Ea	3	$ 5,500.00	100%	$	16,500.00
	Ongoing for life of contract to complete 18 locations						
					SUBTOTAL:	$	126,000.00
			Materials	10%	Markup:	$	12,600.00
					TOTAL:	$	138,600.00

Attachment 3

Alameda Corridor - Proposed CY2021 Operations & Maintenance (O&M) Budget

		Calendar Year 2021							Amended Calendar Year 2020			
		Basis of Apportionment										
		GR Ton MI	Train MI	R.R. M & O Rail Cost (A)	Reserve Account Non-Rail Cost (B)	ACTA Operating Budget Cost (C)	Total		R.R. M & O Rail Cost (A)	Reserve Account Non-Rail Cost (B)	ACTA Operating Budget Cost (C)	Total
I. Labor & Operations Maintenace:												
1.a.i	Contract Manager	GTM	TM	$ 217,307	$ 77,610	$ 15,522	$ 310,439		$ 213,046	$ 76,088	$ 15,218	$ 304,352
1.a.ii	Track Supervisor	GTM		183,813	61,271	-	245,083		180,208	60,069	-	240,278
1.a.iii	Safety Supervisor	GTM		49,017	196,067	-	245,083		48,056	192,222	-	240,278
1.a.iv	Office Manager		TM	80,061	28,593	5,719	114,372		78,491	28,032	5,606	112,130
1.a.vi	Office Assistant		TM	22,874	91,498	-	114,372		-	-	-	-
1.b	Track Inspector	GTM		147,514	49,171	-	196,686		142,561	47,520	-	190,081
1.b.i	Track Foreman	GTM		147,514	49,171	-	196,686		142,561	47,520	-	190,081
1.b.ii	Assistant Foreman	GTM		145,078	48,359	-	193,438		140,125	46,708	-	186,833
1.b.iii	Track Laborers	GTM		676,666	225,555	-	902,222		651,899	217,300	-	869,198
1.b.iv	Equipment Operators		TM	272,719	90,906	-	363,625		176,502	58,834	-	235,335
1.b.v	Welder	GTM		380,379	-	-	380,379		367,169	-	-	367,169
1.b.vi	Welder Helper	GTM		180,444	-	-	180,444		173,840	-	-	173,840
1.b.vii	Laborer (Graffiti/Pump Station)		TM	-	180,444	-	180,444		-	173,840	-	173,840
1.b.ix	Track Superintendent	GTM		136,474	136,474	-	272,947		-	262,239	-	262,239
2.b	Pump Station Maintenance		TM	-	10,939	-	10,939		-	5,862	-	5,862
2.b.i	Pump Station Repairs and Supplies (Subcontractor)		TM	-	31,050	-	31,050		-	29,163	-	29,163
2.c	AEI & Other Misc. Maintenance (Subcontractor)		TM	191,344	-	115,888	307,232		223,399	-	71,323	294,722
2.d	Rail Flaw Detection (Subcontractor)	GTM		52,763	-	-	52,763		45,675	-	-	45,675
2.e	Graffiti Control		TM	-	24,139	-	24,139		-	17,962	-	17,962
2.f	Weed Abatement (Subcontractor)		TM	49,104	12,276	-	61,380		45,312	11,328	-	56,640
2.g	Safety Training (Subcontractor)		TM	26,775	4,725	-	31,500		24,098	4,253	-	28,350
2.h	Safety Management		TM	21,038	3,713	-	24,750		19,635	3,465	-	23,100
2.i	Vehicles	GTM	TM	194,050	66,668	1,031	261,749		165,439	57,279	1,010	223,728
2.k	Safety Supervisor Truck	GTM	TM	2,392	9,569	-	11,961		2,345	9,379	-	11,724
2.l	Full-Time Equipment	GTM	TM	204,336	51,084	-	255,420		130,858	32,714	-	163,572
2.m	Maintenance Program Rail Grinding - (50% of Total Cost)	GTM		514,809	-	-	514,809		326,840	-	-	326,840
2.n	Track Materials / Supplies / Rentals	GTM		386,760	-	-	386,760		303,600	-	-	303,600
2.o	Signal Maintenance (Subcontractor)		TM	1,479,737	-	-	1,479,737		1,407,437	-	-	1,407,437
2.p	Ladder / Fence / Traffic Support (Subcontractor)		TM	-	265,650	-	265,650		-	265,650	-	265,650
2.q	Security - Trench Cameras	GTM	TM	17,941	6,408	1,282	25,630		17,941	6,408	1,282	25,630
2.r	Security / Yard & Office Maintenance & Support (Subcontractor)		TM	207,900	-	-	207,900		192,780	-	-	192,780
2.s	Underwater Bridge Inspection (Not until 2023)		TM	-	-	-	-		-	-	-	-
2.t	Trench Ditch Cleaning		TM	-	50,400	-	50,400		-	50,400	-	50,400
2.v	Replace Signal Wire on the Corridor (Subcontractor)		TM	24,150	-	-	24,150		24,150	-	-	24,150
2.w	Railroad Reporting and Record Keeping Software System (Subcontractor)		TM	42,000	-	-	42,000		54,600	-	-	54,600
2.x	Railroad Emergency Drill Exercise		TM	-	-	-	-		22,000	-	-	22,000
2.y	PTC Support at CP W & E Redondo - Finished by BBII in 2019		TM	-	-	-	-		-	-	-	-
2.aa	AEI Readers Upgrade (Subcontractor)	Special Apportionment		10,500	-	-	10,500		16,800	-	-	16,800
2.bb	Mobilization (Finished in 2019)		TM	-	-	-	-		-	-	-	-
2.cc	Bridge Management Plan (Finished in 2019)	GTM		-	-	-	-		-	-	-	-
2.dd	Bridge Inspections	GTM		6,720	26,880	-	33,600		6,300	25,200	-	31,500
	Subtotal Labor & Operations Maintenance			$ 6,072,179	$ 1,798,620	$ 139,441	$ 8,010,239		$ 5,343,664	$ 1,729,435	$ 94,439	$ 7,167,538

		Basis of Apportionment		Calendar Year 2021				Amended Calendar Year 2020			
		GR Ton MI	Train MI	R.R. M & O Rail Cost (A)	Reserve Account Non-Rail Cost (B)	ACTA Operating Budget Cost (C)	Total	R.R. M & O Rail Cost (A)	Reserve Account Non-Rail Cost (B)	ACTA Operating Budget Cost (C)	Total
II. Capital Costs											
3.a	Surfacing Unit - 70 Days @ $5,941.16/day	GTM		$ -	$ 415,881	$ -	$ 415,881	$ -	$ 173,072	$ -	$ 173,072
3.b	Surfacing Mobilization (Subcontractor)			-	62,457	-	62,457	-	42,203	-	42,203
3.c.i	Reballast Program - Labor			-	109,712	-	109,712	-	52,893	-	52,893
3.c.ii	Reballast Program - Operated Equipment			-	150,737	-	150,737	-	84,099	-	84,099
3.d	Reballast Program - 500 Tons Ballast @ $45 per ton			-	58,300	-	58,300	-	24,750	-	24,750
3.f	Capital Program Rail Grinding - (50% of Total Cost)	GTM		-	514,809	-	514,809	-	326,840	-	326,840
3.h	Rail & Switch Component and Tie Replacement			-	-	-	-	-	214,500	-	214,500
3.h-2	Replace 20 Frogs			-	771,002	-	771,002	-	798,761	-	798,761
3.h-3	Replace 40 Switch Point and Stock Rail Combinations			-	461,895	-	461,895	-	674,547	-	674,547
3.h-4	Install Concrete Switch Ties			-	-	-	-	-	1,120,935	-	1,120,935
3.h-5	Insulated Joint Replacement			-	456,541	-	456,541	-	-	-	-
3.o	Pump Station Upgrades (Subcontractor)	GTM		-	213,500	-	213,500	-	213,500	-	213,500
3.r	Trench Emergency Ladder, Stair Study, & Repairs (Subcontractor)			-	129,000	-	129,000	-	129,000	-	129,000
3.w	Rehab Henry Ford Crossing			-	-	-	-	-	415,398	-	415,398
3.w.1	Rehab Henry Ford Crossing - Near PHL Offices N of Bridge			-	439,984	-	439,984	-	-	-	-
3.y	Signal Battery Replacement			-	110,000	-	110,000	-	55,000	-	55,000
3.aa-1	Retie Crucero to LB Diamond with Concrete Ties			-	566,095	-	566,095	-	-	-	-
3.gg-3	Curve Rail Replacement (12,000 LF)			-	776,462	-	776,462	-	954,797	-	954,797
3.kk	Upgrade and Refurbish Maintenance Facility (Subcontractor)			-	-	-	-	-	31,185	-	31,185
3.ll	Fixed Trench Ladders (Subcontractor)			-	420,000	-	420,000	-	420,000	-	420,000
3.mm	Miscellaneous Trench Structure Repairs (Subcontractor)			-	63,000	-	63,000	-	63,000	-	63,000
3.nn	Compton Bridges - Replace Deck Ties			-	-	-	-	-	183,750	-	183,750
3.oo	Replacement of M23A Switches			-	30,800	-	30,800	-	41,800	-	41,800
3.pp	Signal Module VHLC Replacements to XLC			-	138,600	-	138,600	-	132,000	-	132,000
3.pp-2	Install Repeater Antennae at Redondo			-	-	-	-	-	32,250	-	32,250
	Subtotal Capital Costs			$ -	$ 5,888,775	$ -	$ 5,888,775	$0	$6,184,281	$0	$6,184,281
	Subtotal of I & II			$6,072,179	$7,687,395	$139,441	$13,899,014	$5,343,664	$7,913,716	$94,439	$13,351,819
Multiple use contingency for 2021, not in MOW Budget but included in O&M Budget							$300,000				$300,000
III. Operating & Other Costs											
	Insurance (annual amount) (8)		TM	$ 1,600,000	$ -	$ -	$ 1,600,000	$ 1,600,000	$ -	$ -	$ 1,600,000
	Dispatching (1)		(9)	662,386	-	-	662,386	643,093	-	-	643,093
	Security - Labor (2)		(9)	1,455,116	-	-	1,455,116	1,399,150	-	-	1,399,150
	Security - Equipment (3)		(9)	281,540	-	-	281,540	276,020	-	-	276,020
	Utilities (5)		TM	179,916	-	-	179,916	198,709	-	-	198,709
	Storm Water Discharge Permits, Water Testing & Support Services (4)		TM	75,000	-	-	75,000	30,000	-	-	30,000
	Provide 3rd Party Security Monitoring & Support Services		TM	3,500	-	-	3,500	3,000	-	-	3,000
	M&O or Capital Reserve Support Service (6)		TM	388,629	129,543	-	518,172	384,038	128,013	-	512,050
	Communications Network and Alarm/Phone Upgrades and Renewals		TM	30,000	-	-	30,000	30,000	-	-	30,000
	Rehab Henry Ford Crossing @ CP Dominguez (Engineering & Permits) (Also see 3.w.)		TM	-	50,000	-	50,000	-	40,000	-	40,000
	PRE Signal Plan Updates for Various Control Points		TM	100,000	-	-	100,000	100,000	-	-	100,000
	Extraordinary Right-of-Way Cleanup		TM	125,000	-	-	125,000	100,000	-	-	100,000
	AEI Readers Upgrade (7)	Special Apportionment		87,220		52,780	140,000	243,000	-	-	243,000
	Laptop Computers for Dispatch Communications		TM		-	-	-	10,000	-	-	10,000
	Subtotal Operating & Other Costs			$4,988,307	$ 179,543	$52,780	$5,220,630	$ 5,017,010	$168,013	$0	$5,185,023
	Total of I, II, & III			$11,060,486	$7,866,938	$192,221	$19,419,644	$10,360,674	$8,081,728	$94,439	$18,836,841

(1,2,3) These costs are for memorandum purposes only and are internal Railroads costs not paid by ACTA
(4) Includes annual fees
(5) Previous Actual Expenditures + 5% increase per year
(6) Split based on work estimates

(7) Split based upon allocation plan for installation & maintenance agreed to by ACTA and the Railroads
(8) Only an Estimate based on 2020
(9) Apportionment between Railroads based upon private agreement between the parties
FBLR = Fully Burden Labor Rate

(A) Costs paid by Railroads prorated among carriers
(B) Costs paid by ACTA from the Reserve Account
(C) Costs paid by ACTA