



## ALAMEDA CORRIDOR TRANSPORTATION AUTHORITY

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

November 16, 2022

**To:** Parties listed on Exhibit A

**Subject:** Notice of Mutual Agreement No. 2022-4 - Request for Approval under Amended and Restated Alameda Corridor Use and Operating Agreement

**Matter:** Alameda Corridor Proposed Calendar Year 2023 Operations & Maintenance Budget

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. 2022-4, 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 December 31, 2022. 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,

A handwritten signature in black ink that reads "Michael C. 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.bailliff@bnsf.com

Union Pacific Railroad Company  
1400 Douglas Street -Stop 1160  
Omaha, Nebraska 68179  
Attn: Executive Vice President of  
Operations  
Email: jointfacilitycontracts@up.com

Cc:

Email: [olivia.power@bnsf.com](mailto:olivia.power@bnsf.com)  
Email: Katherine.Sieversen@bnsf.com  
Email: jbarager@up.com  
Email: melissagrosz@UP.com  
Email: tgioiello@portla.org  
Email: gmartinez@portla.org  
Email: duane.kenagy@polb.com  
Email: carlo.luzzi@polb.com  
Email: hmccloskey@portla.org  
Email: David.Albers@longbeach.gov

**EXHIBIT B**  
**NOTICE OF MUTUAL AGREEMENT**

**Number: 2022-4**

**Subject: Approval Request for the Alameda Corridor Proposed Calendar Year 2023 Operations & Maintenance Budget**

**Recommendation:**

1. Approve the proposed 2023 MOW Budget in the amount of \$19,376,931.72;
2. Approve the overall proposed 2023 Operations and Maintenance (O&M) Budget in the amount of \$25,666,200.91, which includes the MOW Budget, other estimated annual O&M expenses, and a \$500,000 contingency for unanticipated O&M items.
3. Authorize delegates appointed by each party to the UOA with delegated authority to provide written approval towards mutual agreement of the allocation and use of the contingency fund and/or 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 party's 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 2023 are comprised of two documents.

1. The Maintenance of Way (MOW) Budget estimates the projected maintenance and capital costs to be incurred for the coming year.
2. The overall Operations and Maintenance (O&M) Budget, which incorporates the MOW Budget, Contingency Budget and Other O&M Budget (including but not limited to insurance, dispatching, security, utilities and support costs).

Attached for approval is the detail for both budgets for calendar year 2023. The following are provided to support your approval.

Attachment 1 presents the proposed 2023 MOW Budget.

Attachments 2 through 4 provide budget detail information for MOW Labor, Operations Maintenance and Capital Costs, respectively.

Attachment 5 provides the proposed 2023 O&M Budget.

The proposed 2023 MOW Budget was originally prepared in draft form by ACTA and their Maintenance Contractor and submitted for review by the Railroads and the Ports. Several meetings were held among the staffs of the Railroads, Ports and ACTA during September, October and November to review and modify as necessary the draft budget. Discussions resulted in staff/delegate concurrence on the attached MOW and O&M Budgets, now submitted for approval by mutual agreement of the parties to the UOA.

Major items reviewed included: proposed Contractor staffing levels and equipment levels; allocation of costs between the Rail and Non-Rail categories within Maintenance; and between Maintenance and Capital Expenses made in accordance with the approved definition of Capital Expenses. The O&M Budget includes a \$500,000 contingency to be allocated, as approved by delegates, during the year to enable necessary unforeseen work.

*Summary Comparison - 2023 vs. 2022 MOW and O&M Budgets*

*MOW Budget*

The proposed 2023 MOW Budget of \$19,376,931.72 is \$4.4M higher than the 2022 Amended MOW Budget. This includes \$4M for conduit repairs caused by vandalism. The funding of the proposed 2023 MOW Budget is split approximately 40/60 between ACTA fee revenue and costs billed to the Railroads.

The proposed 2023 MOW Budget is divided into three categories: Labor Costs, Operations Maintenance, and Capital Costs. The Labor category is up 4.0% over the Approved 2022 MOW Budget, due to annual salary increases, largely dictated by prevailing wage required per contract.

The Operations Maintenance category is up 70% from the 2022 Approved MOW Budget, but this is largely attributed to 2.ee-Conduit repair caused by vandalism. The other significant line-item increase is 2.o-Signal Maintenance, which increased \$680k due to increased vandalism, challenges in obtaining track time and inflation.

The Capital Costs category increased 9% compared the Approved 2022 MOW Budget. Capital work can vary dramatically from year to year due to replacement needs. The 2023 Capital Costs increase is largely associated with two projects: 3.gg-3-Curve rail replacement; and 3.nn-Compton bridge deck tie replacement, which together total \$2M.

<b>MOW Budget Summary</b> <i>(in millions of dollars)</i>			
<b>MOW Budget</b>	<b>Proposed 2023</b>	<b>Approved 2022</b>	<b>% Change</b>
A. Labor	\$4.173	\$4.013	4.0 %
B. Operations Maintenance	8.992	5.277	70.4 %
C. Capital Costs	6.212	5.689	9.2 %
Total MOW	\$19.377	\$14.979	29.4 %

*O&M Budget*

The proposed 2023 O&M Budget of \$25,666,200.91 is the sum of the proposed 2023 MOW Budget of \$19,376,931.72, a \$500,000 contingency, and \$5,789,269.19 in Other Costs. These Other Costs are about 2.0% below those in the 2021 O&M Budget. Most of these costs are paid by the Railroads either directly or from deposits made to ACTA known as M&O charges. The proposed 2023 O&M Budget is 24.6% above the 2022 O&M Budget, due to the proposed 2022 MOW Budget increase described previously and Operating & Other costs increases in insurance and support services.

<b>O&amp;M Budget Summary</b> <i>(in millions of dollars)</i>			
<b>O&amp;M Budget</b>	<b>Proposed 2023</b>	<b>Approved 2022</b>	<b>% Change</b>
I. MOW Contractor <sup>(1)</sup>	\$13.165	\$9.290	41.7%
II. Capital Costs <sup>(2)</sup>	6.212	5.689	9.2%
Contingency	0.500	0.500	0%
III. Operating & Other	5.789	5.115	13.2%
Total O&M	\$25.666	\$20.594	24.6%

<sup>(1)</sup> A+B from MOW Budget

<sup>(2)</sup> C from MOW Budget

**Items of Note:**

1. The proposed 2023 MOW Budget is prepared before the close-out of the approved 2022 MOW Budget, and is based on estimates of how ongoing 2022 work will stand at year's end. Therefore, to the extent that certain 2022 work is not completed to the anticipated level, costs for that work could carry over into 2023 impacting the net 2023 expenditures. ACTA and RailWorks have updated the current status of 2022 MOW work to reflect the best understanding of conditions.
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. 3 for a designated individual or designated individuals within each party to be given authority to approve the allocation and use of contingency funds as needed for the MOW Budget to address unforeseen requirements.

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 \$500,000 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/or the transfer of MOW Budget line items from one line item to another. Note that such delegation was similarly approved for the 2022 MOW and O&M Budgets.

### 3. Budget Flexibility

- Flexibility between line items shall remain within the same category: Labor, OE, 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 3 of this NMA 2022-4 in advance of any overrun or transfer of budget funds.

In summary, the budget is comprised of 3 sections: Labor, OM, and 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 changes.

### 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 – Proposed 2023 MOW Budget
- 2 – Proposed 2023 MOW Labor Detail
- 3 – Proposed 2023 MOW Operations Maintenance Detail
- 4 – Proposed 2023 MOW Capital Costs Detail
- 5 – Proposed 2023 O&M Budget

Attachments 1 – Proposed 2023 MOW Budget

## Alameda Corridor - Proposed Draft 2023 Maintenance of Way (MOW) Budget

	# of Positions	2023 VALUE	R.R. M & O		Reserve Account		ACTA Operating Budget		2022 Approved Budget			
			Share	Rail Cost	Hours	Share	Non-Rail Cost	Hours		Share	Cost	Hours
<b>1. LABOR COSTS</b>	<b>19.5</b>	<b>4,173,018.86</b>		<b>3,282,591.63</b>	<b>30,325</b>		<b>857,929.22</b>	<b>8,475</b>	<b>32,498.00</b>	<b>200</b>	<b>4,012,700.77</b>	
		<i>Approved Amended CY2022 Budget</i>		<i>3,146,250.83</i>	<i>30,325</i>		<i>834,897.94</i>	<i>8,475</i>	<i>31,552.00</i>	<i>200</i>	<i>4,012,700.77</i>	
		<i>Variance</i>		<i>136,341</i>			<i>23,031</i>		<i>946.00</i>		<i>-</i>	
		<i>% Change</i>		<i>4.3%</i>			<i>2.8%</i>		<i>3.0%</i>		<i>0.0%</i>	
<b>2. OPERATIONS MAINTENANCE</b>		<b>2023</b>		<b>R.R. M&amp;O - Rail Cost</b>	<b>Hours</b>	<b>Share</b>	<b>Res. Acct. Non-Rail Cost</b>	<b>Hours</b>	<b>Share</b>	<b>ACTA Operating Budget Cost</b>	<b>Hours</b>	<b>2022</b>
2.b	Pump Station Maintenance	\$ 15,480.00	0.0%	\$ -		100.0%	\$ 15,480.00		0.0%	\$ -		\$ 13,416.00
2.b.i	Pump Station Repairs and Supplies (Subcontractor)	\$ 34,815.00	0.0%	\$ -		100.0%	\$ 34,815.00		0.0%	\$ -		\$ 31,650.00
2.c	AEI & Other Communications Maintenance	\$ 392,239.89	62.3%	\$ 244,287.00		0.0%	\$ -		37.7%	\$ 147,952.89		\$ 325,284.87
2.d	Rail Flaw Detection (Subcontractor)	\$ 63,000.00	100.0%	\$ 63,000.00		0.0%	\$ -		0.0%	\$ -		\$ 56,700.00
2.e	Graffiti Control	\$ 30,726.00	0.0%	\$ -		100.0%	\$ 30,726.00		0.0%	\$ -		\$ 27,276.00
2.f	Weed Abatement (Subcontractor)	\$ 70,488.00	80.0%	\$ 56,390.40		20.0%	\$ 14,097.60		0.0%	\$ -		\$ 66,960.00
2.g	Safety Training (Subcontractor)	\$ 34,125.00	85.0%	\$ 29,006.25		15.0%	\$ 5,118.75		0.0%	\$ -		\$ 32,025.00
2.h	Safety Management	\$ 24,412.50	85.0%	\$ 20,750.63		15.0%	\$ 3,661.88		0.0%	\$ -		\$ 24,412.50
2.i	Vehicles	\$ 365,328.00	75.0%	\$ 273,996.00		25.0%	\$ 91,332.00		0.0%	\$ -		\$ 311,604.00
2.l	Full-Time Equipment	\$ 288,960.00	100.0%	\$ 288,960.00		0.0%	\$ -		0.0%	\$ -		\$ 262,128.00
2.m	Maintenance Program Rail Grinding - (50% of Total Cost)	\$ 347,415.45	100.0%	\$ 347,415.45		0.0%	\$ -		0.0%	\$ -		\$ 304,062.49
2.n	Track Materials / Supplies / Rentals	\$ 303,600.00	100.0%	\$ 303,600.00		0.0%	\$ -		0.0%	\$ -		\$ 264,000.00
2.o	Signal Maintenance (Subcontractor)	\$ 2,233,564.58	100.0%	\$ 2,233,564.58		0.0%	\$ -		0.0%	\$ -		\$ 1,553,671.90
2.p	Ladder / Fence / Traffic Support (Subcontractor)	\$ 307,461.00	0.0%	\$ -		100.0%	\$ 307,461.00		0.0%	\$ -		\$ 279,510.00
2.q	Security - Trench Cameras	\$ 20,460.00	70.0%	\$ 14,322.00		25.0%	\$ 5,115.00		5.0%	\$ 1,023.00		\$ 20,460.00
2.r	Security / Yard & Office Maintenance & Support (Subcontractor)	\$ 259,182.00	100.0%	\$ 259,182.00		0.0%	\$ -		0.0%	\$ -		\$ 233,415.00
2.s	Underwater Bridge Inspection (Not until 2023)	\$ 51,187.50	100.0%	\$ 51,187.50		0.0%	\$ -		0.0%	\$ -		\$ -
2.t	Trench Ditch Cleaning	\$ 73,500.00	0.0%	\$ -		100.0%	\$ 73,500.00		0.0%	\$ -		\$ 46,200.00
2.w	Railroad Reporting and Record Keeping Software System (Subcontractor)	\$ 46,620.00	100.0%	\$ 46,620.00		0.0%	\$ -		0.0%	\$ -		\$ 44,100.00
2.x	Railroad Emergency Drill Exercise	\$ 29,808.04	100.0%	\$ 29,808.04		0.0%	\$ -		0.0%	\$ -		\$ 27,342.80
2.aa	AEI Readers Upgrade - Completed in 2021	\$ -	100.0%	\$ -		0.0%	\$ -		0.0%	\$ -		\$ -
2.dd	Bridge Inspections (Subcontractor)	\$ -	100.0%	\$ -		0.0%	\$ -		0.0%	\$ -		\$ 35,700.00
2.ee	Communication System Repair	\$ 4,000,000.00	100.0%	\$ 4,000,000.00		0.0%	\$ -		0.0%	\$ -		\$ 1,317,530.00
<b>SUBTOTAL B:</b>		<b>\$ 8,992,372.96</b>		<b>\$ 8,262,089.85</b>			<b>\$ 581,307.23</b>			<b>\$ 148,976</b>		<b>\$ 5,277,448.56</b>
<b>3. CAPITAL COSTS</b>		<b>2023</b>		<b>R.R. M&amp;O - Rail Cost</b>	<b>Hours</b>	<b>Share</b>	<b>Res. Acct. Non-Rail Cost</b>	<b>Hours</b>	<b>Share</b>	<b>ACTA Operating Budget Cost</b>	<b>Hours</b>	<b>2022</b>
3.a	Surfacing & Mobilization	\$ 549,390.90	0.0%	\$ -		100.0%	\$ 549,390.90		0.0%	\$ -		\$ 503,065.67
3.c	Reballast Program - Labor & Equipment	\$ 347,870.80	0.0%	\$ -		100.0%	\$ 347,870.80		0.0%	\$ -		\$ 324,775.97
3.d	Reballast Program - Ballast	\$ 63,800.00	0.0%	\$ -		100.0%	\$ 63,800.00		0.0%	\$ -		\$ 58,300.00
3.f	Capital Program Rail Grinding - (50% of Total Cost)	\$ 347,415.45	0.0%	\$ -		100.0%	\$ 347,415.45		0.0%	\$ -		\$ 304,062.49
3.h-2	Replace 20 Frogs	\$ 733,036.80	0.0%	\$ -		100.0%	\$ 733,036.80		0.0%	\$ -		\$ 728,557.20
3.h-3	Replace 40 Switch Points and Stock Rails	\$ 519,476.80	0.0%	\$ -		100.0%	\$ 519,476.80		0.0%	\$ -		\$ 458,201.73
3.h-5	Insulated Joint Replacement	\$ 286,816.25	0.0%	\$ -		100.0%	\$ 286,816.25		0.0%	\$ -		\$ 256,060.44
3.o	Pump Station Upgrades (Subcontractor)	\$ 234,850.00	0.0%	\$ -		100.0%	\$ 234,850.00		0.0%	\$ -		\$ 213,500.00
3.r	Trench Emergency Ladder, Stair Study, & Repairs (Subcontractor)	\$ 129,000.00	0.0%	\$ -		100.0%	\$ 129,000.00		0.0%	\$ -		\$ 129,000.00
3.y	Signal Battery Replacement	\$ 121,000.00	0.0%	\$ -		100.0%	\$ 121,000.00		0.0%	\$ -		\$ 110,000.00
3.aa-1	Replace Crucero Diamonds	\$ -	0.0%	\$ -		100.0%	\$ -		0.0%	\$ -		\$ 631,773.17
3.gg-3	Curve Rail Replacement	\$ 1,177,293.85	0.0%	\$ -		100.0%	\$ 1,177,293.85		0.0%	\$ -		\$ 657,204.85
3.ll	Fixed Trench Ladders (Subcontractor)	\$ 420,000.00	0.0%	\$ -		100.0%	\$ 420,000.00		0.0%	\$ -		\$ 420,000.00
3.mm	Miscellaneous Trench Structure Repairs (Subcontractor)	\$ 63,000.00	0.0%	\$ -		100.0%	\$ 63,000.00		0.0%	\$ -		\$ 63,000.00
3.nn	Compton Bridges - Replace Deck Ties	\$ 850,273.10	0.0%	\$ -		100.0%	\$ 850,273.10		0.0%	\$ -		\$ 572,913.23
3.oo	Replacement of M23A Switches Machines	\$ 110,000.00	0.0%	\$ -		100.0%	\$ 110,000.00		0.0%	\$ -		\$ 30,800.00
3.pp	Signal Module VHLC Replacements to XLC	\$ 155,713.95	0.0%	\$ -		100.0%	\$ 155,713.95		0.0%	\$ -		\$ 141,699.60
3.qq	Furnish and Replace Rail Lubricator Systems	\$ 102,602.00	0.0%	\$ -		100.0%	\$ 102,602.00		0.0%	\$ -		\$ 86,411.66
<b>SUBTOTAL C:</b>		<b>\$ 6,211,539.90</b>		<b>\$ -</b>			<b>\$ 6,211,539.90</b>			<b>\$ -</b>		<b>\$ 5,689,326.00</b>
<b>GRAND TOTAL A, B, C:</b>		<b>\$ 19,376,931.72</b>		<b>\$ 11,544,681.48</b>			<b>\$ 7,650,776.35</b>			<b>\$ 181,473.89</b>		<b>\$ 14,979,475.33</b>

Attachments 2 – Proposed 2023 MOW Labor Detail

1. Proposed Draft 2023 Labor Costs

1. LABOR		Positions	Needed Portion	EST Hours	2023 Hourly RATE	OT RATE	OT * VALUE	DT RATE	DT ** VALUE	2023 VALUE	Share	R.R. M & O Rail Cost	Hours	Share	Reserve Account Non-Rail Cost	Hours	Share	ACTA Operating Budget Cost	Hours	2022 Amended Approved Budget
<b>MANAGEMENT POSITIONS</b>																				
1.a.i	Contract Manager	1	100.0%	2000	\$ 162.49	N/A	N/A	N/A	N/A	\$ 324,980.00	70.0%	\$ 227,486.00	1,400	20.0%	\$ 64,996.00	400	10.0%	\$ 32,498.00	200	\$ 315,519.95
1.a.ii	Track Supervisor	1	100.0%	2000	\$ 128.28	N/A	N/A	N/A	N/A	\$ 256,560.00	80.0%	\$ 205,248.00	1,600	20.0%	\$ 51,312.00	400	0.0%	\$ -	-	\$ 249,094.70
1.a.iii	Safety Supervisor	1	100.0%	2000	\$ 128.28	N/A	N/A	N/A	N/A	\$ 256,560.00	80.0%	\$ 205,248.00	1,600	20.0%	\$ 51,312.00	400	0.0%	\$ -	-	\$ 249,094.70
1.a.iv	Office Manager	1	100.0%	2000	\$ 59.87	N/A	N/A	N/A	N/A	\$ 119,740.00	50.0%	\$ 59,870.00	1,000	50.0%	\$ 59,870.00	1,000	0.0%	\$ -	-	\$ 116,244.19
1.a.v	Office Assistant	1	100.0%	2000	\$ 59.87	N/A	N/A	N/A	N/A	\$ 119,740.00	50.0%	\$ 59,870.00	1,000	50.0%	\$ 59,870.00	1,000	0.0%	\$ -	-	\$ 116,244.19
<b>STAFF POSITIONS</b>																				
1.b	Track Inspector	1	100.0%	2000	\$ 98.67	\$ 132.56	\$ 10,207.12	\$ 166.44	\$ 3,994.56	\$ 211,541.68	100.0%	\$ 211,541.68	2,000	0.0%	\$ -	-	0.0%	\$ -	-	\$ 202,312.96
1.b.i	Track Foreman	2	100.0%	4000	\$ 98.67	\$ 132.56	\$ 20,414.24	\$ 166.44	\$ 7,989.12	\$ 423,083.36	100.0%	\$ 423,083.36	4,000	0.0%	\$ -	-	0.0%	\$ -	-	\$ 202,312.96
1.b.ii	Assistant Foreman	0	100.0%	0	\$ 97.17	\$ 130.31	\$ -	\$ 163.45	\$ -	\$ -	100.0%	\$ -	-	0.0%	\$ -	-	0.0%	\$ -	-	\$ 199,076.73
1.b.iii	Track Laborers	4	100.0%	8000	\$ 91.19	\$ 121.34	\$ 37,372.72	\$ 151.49	\$ 14,543.04	\$ 781,435.76	97.5%	\$ 761,899.87	7,800	2.5%	\$ 19,535.89	200	0.0%	\$ -	-	\$ 744,527.29
1.b.iv	Equipment Operators	1.5	100.0%	3000	\$ 123.90	\$ 167.47	\$ 19,342.79	\$ 211.04	\$ 7,597.44	\$ 398,640.23	97.5%	\$ 388,674.22	2,925	2.5%	\$ 9,966.01	75	0.0%	\$ -	-	\$ 372,955.41
1.b.v	Welder	2	100.0%	4000	\$ 95.68	\$ 128.07	\$ 19,722.78	\$ 160.46	\$ 7,702.08	\$ 410,144.86	100.0%	\$ 410,144.86	4,000	0.0%	\$ -	-	0.0%	\$ -	-	\$ 391,681.01
1.b.vi	Welder Helper	1	100.0%	2000	\$ 91.19	\$ 121.34	\$ 9,343.18	\$ 151.49	\$ 3,635.76	\$ 195,358.94	100.0%	\$ 195,358.94	2,000	0.0%	\$ -	-	0.0%	\$ -	-	\$ 186,131.82
1.b.vii	Laborer (Non-Rail)	1	100.0%	2000	\$ 91.19	\$ 121.34	\$ 9,343.18	\$ 151.49	\$ 3,635.76	\$ 195,358.94	0.0%	\$ -	-	100.0%	\$ 195,358.94	2,000	0.0%	\$ -	-	\$ 186,131.82
1.b.viii	Foreman (Non-Rail)	1	100.0%	2000	\$ 98.67	\$ 132.56	\$ 10,207.12	\$ 166.44	\$ 3,994.56	\$ 211,541.68	0.0%	\$ -	-	100.0%	\$ 211,541.68	2,000	0.0%	\$ -	-	\$ 202,312.96
1.b.ix	Track Superintendent	1	100.0%	2000	\$ 124.92	\$ 171.93	\$ 13,238.61	\$ 218.95	\$ 5,254.80	\$ 268,333.41	50.0%	\$ 134,166.71	1,000	50.0%	\$ 134,166.71	1,000	0.0%	\$ -	-	\$ 279,060.05
		19.5		39000						<b>SUBTOTAL A:</b>		\$ 4,173,018.86	30,325		\$ 857,929.22	8,475		\$ 32,498.00	200	\$ 4,012,700.77
										<b>Approved Amended CY2022 Budget</b>		\$ 4,012,700.77	30,325		\$ 834,897.94	8,475		\$ 31,552.00	200	\$ 4,012,700.77
										<b>Variance</b>		\$ 160,318.08	-		\$ 23,031	-		\$ 946.00	-	\$ -
										<b>% Change</b>		4.0%			2.8%			3.0%		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

Note: all rates are Fully Burden Labor Rate. Additional detail is available upon request.

Attachments 3 – Proposed 2023 MOW Operations Maintenance Detail

2. Draft Proposed CY23 Operations Maintenance Budget Detail

Cost Code

2.b	Pump Station Maintenance	U of M	QTY	Rate	Split	Total
	Vehicle (Split 50/50 between 2.b & 2.e)	Monthly	12	\$ 2,580.00	50%	\$ 15,480.00

SUBTOTAL: \$ 15,480.00

Materials	10%	Markup: \$	-
Subcontractor	5%	Markup: \$	-
Supplies	15%	Markup: \$	-
<b>TOTAL:</b>		<b>\$</b>	<b>15,480.00</b>

2.b.i	Pump Station Repairs and Supplies	U of M	QTY	Rate	Split	Total
	Subcontractor - Repairs to Pumps	LS	1	\$ 18,700.00	100%	\$ 18,700.00
	Environmental Supplies (Chemicals for water treatment)	LS	1	\$ 13,200.00	100%	\$ 13,200.00

SUBTOTAL: \$ 31,900.00

Materials	10%	Markup: \$	-
Subcontractor	5%	Markup: \$	935.00
Supplies	15%	Markup: \$	1,980.00
<b>TOTAL:</b>		<b>\$</b>	<b>34,815.00</b>

2.c	AEI & Other Communications Maintenance	U of M	QTY	Rate	Split	Total
<b>Materials</b>						
	Material - Initial Inventory Purchase	LS	1	\$ 13,750.00	100%	\$ 13,750.00
	<i>Subtotal - Materials</i>					\$ 13,750.00

<b>Subcontractor</b>						
	<b>Office Administrator</b>	Hour	200	\$ 65.00	100%	\$ 13,000.00
	AEI / Comm Technician - ST	Hour	2000	\$ 128.72	100%	\$ 257,440.00
	AEI / Comm Technician - OT (Based on 1Q&2Q2021)	Hour	80	\$ 172.33	100%	\$ 13,786.40
	AEI / Comm Technician - DT (Based on 1Q&2Q2021)	Hour	16	\$ 257.44	100%	\$ 4,119.04
	Signal / Comm Supervisor	Hour	200	\$ 137.50	100%	\$ 27,500.00
	Vehicle - Signal / Comm Supervisor	Monthly	12	\$ 312.00	100%	\$ 3,744.00
	Vehicle - AEI / Comm Technician (Monthly Rate for FT Position)	Monthly	12	\$ 3,120.00	100%	\$ 37,440.00
	Vehicle - AEI / Comm Technician (Hourly Rate for Call-Outs)	Hour	120	\$ 17.73	100%	\$ 2,127.60
	<i>Subtotal - Subcontractor</i>					\$ 359,157.04

SUBTOTAL: \$ 372,907.04

Materials	10%	Markup: \$	1,375.00
Subcontractor	5%	Markup: \$	17,957.85
Supplies	15%	Markup: \$	-
<b>TOTAL:</b>		<b>\$</b>	<b>392,239.89</b>

2.d	Rail Flaw Detection	U of M	QTY	Rate	Split	Total
	Subcontractor - Mobilization	EA	3	\$ 5,000.00	100%	\$ 15,000.00
	Subcontractor - Daily Rate (3-day minimums)	EA	3	\$ 15,000.00	100%	\$ 45,000.00

SUBTOTAL: \$ 60,000.00

Materials	10%	Markup: \$	-
Subcontractor	5%	Markup: \$	3,000.00
Supplies	15%	Markup: \$	-
<b>TOTAL:</b>		<b>\$</b>	<b>63,000.00</b>

2.e	Graffiti Control	U of M	QTY	Rate	Split	Total
	Vehicle (Split 50/50 between 2.b & 2.e)	Monthly	12	\$ 2,580.00	50%	\$ 15,480.00
	Materials	LS	1	\$ 13,860.00	100%	\$ 13,860.00

SUBTOTAL: \$ 29,340.00

Materials	10%	Markup: \$	1,386.00
Subcontractor	5%	Markup: \$	-
Supplies	15%	Markup: \$	-
<b>TOTAL:</b>		<b>\$</b>	<b>30,726.00</b>

2.f	Weed Abatement	U of M	QTY	Rate	Split	Total
<b>Subcontractor</b>						
	Subcontractor	LS	1	\$ 36,960.00	100%	\$ 36,960.00
	Disposal - Dumpsters @ 1 per month	EA	12	\$ 1,200.00	100%	\$ 14,400.00
<i>Subtotal - Subcontractor</i>						\$ 51,360.00
<b>Supplies &amp; Rental</b>						
	Specialty Equipment Rental	EA	12	\$ 1,200.00	100%	\$ 14,400.00
<i>Subtotal - Supplies &amp; Rental</i>						\$ 14,400.00
SUBTOTAL:						\$ 65,760.00
	Materials			10%	Markup:	\$ -
	Subcontractor			5%	Markup:	\$ 2,568.00
	Supplies			15%	Markup:	\$ 2,160.00
TOTAL:						\$ 70,488.00

2.g	Safety Training	U of M	QTY	Rate	Split	Total
	Subcontractor - Training (Classes and Seminars)	LS	1	\$ 20,000.00	100%	\$ 20,000.00
	Instructor Lodging and Meals	Days	5	\$ 2,500.00	100%	\$ 12,500.00
SUBTOTAL:						\$ 32,500.00
	Materials			10%	Markup:	\$ -
	Subcontractor			5%	Markup:	\$ 1,625.00
	Supplies			15%	Markup:	\$ -
TOTAL:						\$ 34,125.00

2.h	Safety Management	U of M	QTY	Rate	Split	Total
	Drug Testing - Employees	EA	30	\$ 775.00	100%	\$ 23,250.00
SUBTOTAL:						\$ 23,250.00
	Materials			10%	Markup:	\$ -
	Subcontractor			5%	Markup:	\$ 1,162.50
	Supplies			15%	Markup:	\$ -
TOTAL:						\$ 24,412.50

2.i	Vehicles (Cost Accounts % split)	U of M	QTY	Rate	Split	Total
2.i.i	Contract Manager (RR M&O 70%/RA 20%/OB 10%)	Monthly	12	\$ 2,064.00	100%	\$ 24,768.00
2.i.ii	Track Supervisor - Hi-Rail (RR M&O 80%/RA 20%)	Monthly	12	\$ 2,580.00	100%	\$ 30,960.00
2.i.iii	Welding Truck - Hi-Rail (RR M&O 100%)	Monthly	12	\$ 6,880.00	100%	\$ 82,560.00
2.i.iv	Track Foreman - Hi-Rail (2 Each) (RR M&O 50%/RA 50%)	Monthly	24	\$ 4,988.00	100%	\$ 119,712.00
2.i.v	Assistant Track Foreman - Hi-Rail (RR M&O 100%)	Monthly	0	\$ 2,580.00	100%	\$ -
2.i.vi	Track Inspector - Hi-Rail (2 Each) (RR M&O 100%)	Monthly	24	\$ 2,580.00	100%	\$ 61,920.00
2.i.vii	Track Superintendent - Hi-Rail (RR M&O 50%/RA 50%)	Monthly	12	\$ 2,580.00	100%	\$ 30,960.00
2.k	Safety Supervisor Vehicle (RR M&O 80%/RA 20%)	Monthly	12	\$ 1,204.00	100%	\$ 14,448.00
SUBTOTAL:						\$ 365,328.00
	Materials			10%	Markup:	\$ -
	Subcontractor			5%	Markup:	\$ -
	Supplies			15%	Markup:	\$ -
TOTAL:						\$ 365,328.00

2.l	Full-Time Equipment	U of M	QTY	Rate	Split	Total
	Hi-Rail Grapple / Boom Truck	Monthly	12	\$ 10,492.00	100%	\$ 125,904.00
	Speedswing	Monthly	12	\$ 8,256.00	100%	\$ 99,072.00
	Combination Backhoe	Monthly	12	\$ 5,332.00	100%	\$ 63,984.00
SUBTOTAL:						\$ 288,960.00
	Materials			10%	Markup:	\$ -
	Subcontractor			5%	Markup:	\$ -
	Supplies			15%	Markup:	\$ -
TOTAL:						\$ 288,960.00

2.m	Maintenance Program Rail Grinding	U of M	QTY	Rate	Split	Total	
<b>RailWorks Labor &amp; Equipment</b>							
	Foreman	HR	240	\$ 98.67	50%	\$ 11,840.40	
	Laborer	HR	240	\$ 91.19	50%	\$ 10,942.80	
	F350 HiRail Crew Truck	HR	240	\$ 15.00	50%	\$ 1,800.00	
	<i>Subtotal - RWs Labor &amp; Equipment</i>					\$	24,583.20
<b>Subcontractor</b>							
	Mainline Grinding Subcontractor Mobilization	LS	2	\$ 80,000.00	50%	\$ 80,000.00	
	Mainline Grinding Contractor Basic Charge	Daily	30	\$ 10,500.00	50%	\$ 157,500.00	
	Mainline Grinding Production Charge	Miles	25	\$ 400.00	50%	\$ 5,000.00	
	Mainline Grinding Pre-Grind Survey Mobilization	LS	1	\$ 12,500.00	50%	\$ 6,250.00	
	Mainline Grinding Pre-Grind Survey Daily Rate	Daily	3	\$ 8,000.00	50%	\$ 12,000.00	
	Signal Support	Daily	30	\$ 1,033.00	50%	\$ 15,495.00	
	<i>Subtotal - Subcontractor</i>					\$	276,245.00
<b>Supplies &amp; Rental</b>							
	Fuel for Grinder	Gallon	6000	\$ 7.00	50%	\$ 21,000.00	
	Water Truck Rental	Monthly	2	\$ 7,500.00	50%	\$ 7,500.00	
	<i>Subtotal - Supplies &amp; Rental</i>					\$	28,500.00
Total is split 50/50 between R.R. M&O Cost and Capital						SUBTOTAL:	\$ 329,328.20
	Materials			10%	Markup:	\$ -	
	Subcontractor			5%	Markup:	\$ 13,812.25	
	Supplies			15%	Markup:	\$ 4,275.00	
						TOTAL:	\$ 347,415.45

2.n	Track Materials / Supplies / Rentals	U of M	QTY	Rate	Split	Total	
<b>Materials</b>							
	Miscellaneous Track Materials - Bolts, etc.	Monthly	12	\$ 5,500.00	100%	\$ 66,000.00	
	Curve Grease - Grease and miscellaneous parts and pieces	Monthly	12	\$ 5,500.00	100%	\$ 66,000.00	
	Supplies and Consumables - Welding, etc.	Monthly	12	\$ 5,500.00	100%	\$ 66,000.00	
	<i>Subtotal - Materials</i>					\$	198,000.00
<b>Supplies &amp; Rental</b>							
	Equipment Rental	Monthly	12	\$ 5,500.00	100%	\$ 66,000.00	
	<i>Subtotal - Supplies &amp; Rental</i>					\$	66,000.00
						SUBTOTAL:	\$ 264,000.00
	Materials			10%	Markup:	\$ 26,400.00	
	Subcontractor			5%	Markup:	\$ 3,300.00	
	Supplies			15%	Markup:	\$ 9,900.00	
						TOTAL:	\$ 303,600.00

2.o	Signal Maintenance	U of M	QTY	Rate	Split	Total	
<b>Materials</b>							
	Material Ongoing Purchases Total = LS (RWKS purchase)	LS	1	\$ 96,000.00	100%	\$ 96,000.00	
	<i>Subtotal - Materials</i>					\$	96,000.00
<b>RailWorks Labor &amp; Equipment</b>							
	HiRail Bucket Truck	Monthly	12	\$ 3,600.00	100%	\$ 43,200.00	
	Foreman	HR	416	\$ 98.67	100%	\$ 41,046.72	
	Foreman - OT	HR	96	\$ 132.56	100%	\$ 12,725.76	
	<i>Subtotal - RWs Labor &amp; Equipment</i>					\$	96,972.48
<b>Subcontractor</b>							
	Office Administrator	HR	1800	\$ 65.00	100%	\$ 117,000.00	
	Signal / Comm Supervisor	HR	1800	\$ 137.50	100%	\$ 247,500.00	
	Signal / Comm Supervisor - OT (Based on 1Q&2Q2022)	HR	75	\$ 206.25	100%	\$ 15,468.75	
	Signal / Comm Supervisor - DT (Based on 1Q&2Q2022)	HR	25	\$ 275.00	100%	\$ 6,875.00	
	Signal Test Maintainer	HR	2000	\$ 128.72	100%	\$ 257,440.00	
	Signal Test Maintainer - OT (Based on 1Q&2Q2022)	HR	75	\$ 172.33	100%	\$ 12,924.75	
	Signal Test Maintainer - DT (Based on 1Q&2Q2022)	HR	25	\$ 257.44	100%	\$ 6,436.00	
	Signal Maintainer	HR	8000	\$ 121.34	100%	\$ 970,720.00	
	Signal Maintainer - OT (Based on 1Q&2Q2022)	HR	225	\$ 161.71	100%	\$ 36,384.75	
	Signal Maintainer - DT (Based on 1Q&2Q2022)	HR	75	\$ 242.68	100%	\$ 18,201.00	
	Vehicle - Signal / Comm Supervisor	Monthly	12	\$ 2,808.00	100%	\$ 33,696.00	
	Vehicle - Signal Test Maintainer	Monthly	12	\$ 3,120.00	100%	\$ 37,440.00	
	Vehicle - Signal Maintainers (4)	Monthly	12	\$ 12,480.00	100%	\$ 149,760.00	
	Vehicle - Signal Test Maintainer &/or Signal Maintainer for Call-Outs	HR	1238	\$ 17.73	100%	\$ 21,949.74	
	Vehicle -Sig/Comm Supv &/or Signal Engineer for Call-Outs	HR	140	\$ 17.73	100%	\$ 2,482.20	
	<i>Subtotal - Subcontractor</i>					\$	1,934,278.19
						SUBTOTAL:	\$ 2,127,250.67
	Materials			10%	Markup:	\$ 9,600.00	
	Subcontractor			5%	Markup:	\$ 96,713.91	
	Supplies			15%	Markup:	\$ -	
						TOTAL:	\$ 2,233,564.58

2.p	Ladder / Fence / Traffic Support	U of M	QTY	Rate	Split	Total
<b>Materials</b>						
	Ladder Replacement Parts	LS	1	\$ 12,705.00	100%	\$ 12,705.00
	<i>Subtotal - Materials</i>					\$ 12,705.00
<b>Subcontractor</b>						
	Traffic Support	LS	1	\$ 36,960.00	100%	\$ 36,960.00
	Fence Repair / Replacement	LS	1	\$ 242,550.00	100%	\$ 242,550.00
	<i>Subtotal - Subcontractor</i>					\$ 279,510.00
SUBTOTAL:						\$ 292,215.00

Materials	10%	Markup:	\$ 1,270.50
Subcontractor	5%	Markup:	\$ 13,975.50
Supplies	15%	Markup:	\$ -
TOTAL:			\$ 307,461.00

2.q	Security - Trench Cameras	U of M	QTY	Rate	Split	Total
	Motion Detector Replacement Parts	LS	1	\$ 2,500.00	100%	\$ 2,500.00
	Wire Replacement Subcontractor	LS	1	\$ 3,500.00	100%	\$ 3,500.00
	Camera Replacement Parts	LS	1	\$ 12,600.00	100%	\$ 12,600.00
SUBTOTAL:						\$ 18,600.00

Materials	10%	Markup:	\$ 1,860.00
Subcontractor	5%	Markup:	\$ -
Supplies	15%	Markup:	\$ -
TOTAL:			\$ 20,460.00

2.r	Yard / Office Security / Maintenance / Support	U of M	QTY	Rate	Split	Total
<b>Subcontractor</b>						
	Security Guard Services	Monthly	12	\$ 16,170.00	100%	\$ 194,040.00
	Janitorial Services	Monthly	12	\$ 1,800.00	100%	\$ 21,600.00
	HVAC and Building Maintenance (Electrical, Mechanical, Pest)	Monthly	12	\$ 1,200.00	100%	\$ 14,400.00
	Quench / Dumpsters / Portable Sanitation / Pesticides	Monthly	12	\$ 1,400.00	100%	\$ 16,800.00
SUBTOTAL:						\$ 246,840.00

Materials	10%	Markup:	\$ -
Subcontractor	5%	Markup:	\$ 12,342.00
Supplies	15%	Markup:	\$ -
TOTAL:			\$ 259,182.00

2.s	Underwater Bridge Inspection	U of M	QTY	Rate	Split	Total
<b>Subcontractor</b>						
	Underwater Bridge Inspection Subcontractor	Day	5	\$ 9,750.00	100%	\$ 48,750.00
SUBTOTAL:						\$ 48,750.00

Materials	10%	Markup:	\$ -
Subcontractor	5%	Markup:	\$ 2,437.50
Supplies	15%	Markup:	\$ -
TOTAL:			\$ 51,187.50

2.t	Trench Ditch Cleaning	U of M	QTY	Rate	Split	Total
<b>Subcontractor</b>						
	Hi-Rail Vac Truck if Required	Weeks	4	\$ 12,000.00	100%	\$ 48,000.00
	Disposal of Materials	LS	1	\$ 22,000.00	100%	\$ 22,000.00
SUBTOTAL:						\$ 70,000.00

Materials	10%	Markup:	\$ -
Subcontractor	5%	Markup:	\$ 3,500.00
Supplies	15%	Markup:	\$ -
TOTAL:			\$ 73,500.00

2.w	Railroad Reporting & Record Keeping Software System	U of M	QTY	Rate	Split	Total
<b>Subcontractor</b>						
	Tier Based Management Fee	LS	1	\$ 40,000.00	100%	\$ 40,000.00
	Updates	LS	1	\$ 4,400.00	100%	\$ 4,400.00
SUBTOTAL:						\$ 44,400.00

Materials	10%	Markup:	\$ -
Subcontractor	5%	Markup:	\$ 2,220.00
Supplies	15%	Markup:	\$ -
TOTAL:			\$ 46,620.00

2.x	Railroad Emergency Drill Exercise	U of M	QTY	Rate	Split	Total	
<b>RailWorks Labor &amp; Equipment</b>							
	Track Foreman	HR	12	\$ 166.44	100%	\$ 1,997.28	
	Crew Truck	HR	24	\$ 15.00	100%	\$ 360.00	
	Track Laborer	HR	24	\$ 151.49	100%	\$ 3,635.76	
	<i>Subtotal - RWs Labor &amp; Equipment</i>					\$	5,993.04
<b>Subcontractor</b>							
	Maintenance of Traffic Subcontractor	LS	1	\$ 2,200.00	100%	\$ 2,200.00	
	<i>Subtotal - Subcontractor</i>					\$	2,200.00
<b>Supplies &amp; Rental</b>							
	Miscellaneous Supplies	LS	1	\$ 18,700.00	100%	\$ 18,700.00	
	<i>Subtotal - Supplies &amp; Rentals</i>					\$	18,700.00
						SUBTOTAL: \$	26,893.04
				Materials	10%	Markup: \$	-
				Subcontractor	5%	Markup: \$	110.00
				Supplies	15%	Markup: \$	2,805.00
						TOTAL: \$	29,808.04

2.dd	Bridge Inspections	U of M	QTY	Rate	Split	Total	
	Subcontractor	LS	1	\$ 36,000.00	100%	\$ 36,000.00	
						SUBTOTAL: \$	36,000.00
				Materials	10%	Markup: \$	-
				Subcontractor	5%	Markup: \$	1,800.00
				Supplies	15%	Markup: \$	-
						TOTAL: \$	37,800.00

2.ee	Communication System Repair	U of M	QTY	Rate	Split	Total	
	Ladder 6-15 \$1,425,000	LF	8860	\$ 161.00	100%	\$ 1,426,460.00	
	Additional Impact Area (Ladder 3-5,16-47)	LF	38690	\$ 161.00	100%	\$ 6,229,090.00	
						SUBTOTAL: \$	7,655,550.00
				Materials	10%	Markup:	
				Subcontractor	5%	Markup:	
				Supplies	15%	Markup:	
						TOTAL: \$	7,655,550.00
						Allow prior to systems value engineering and bid: \$	4,000,000.00

Attachments 4 – Proposed 2023 MOW Capital Costs Detail

3. Proposed Draft CY2023 Capital Program

Cost Code

3.a

Surfacing	U of M	QTY	Rate	Split	Total
<b>RailWorks Labor &amp; Equipment</b>					
Operators	Hour	96	\$ 123.90	100%	\$ 11,894.40
Truck	Hour	96	\$ 15.00	100%	\$ 1,440.00
<i>Subtotal - RWs Labor &amp; Equipment</i>					\$ 13,334.40
<b>Subcontractor</b>					
Subcontractor Tamping & Regulating - LazerWest	Day	70	\$ 5,506.00	100%	\$ 385,420.00
Signal Support	Day	70	\$ 1,033.00	100%	\$ 72,310.00
Subcontract Equipment Trucking	LS	12	\$ 4,400.00	100%	\$ 52,800.00
<i>Subtotal - Subcontractor</i>					\$ 510,530.00
Daily Rate with Subcontractor = \$5,966.13					

SUBTOTAL: \$ 523,864.40

Materials	10%	Markup: \$	-
Subcontractor	5%	Markup: \$	25,526.50
Supplies	15%	Markup: \$	-
		TOTAL: \$	549,390.90

3.c

Reballast Program (Labor & Equipment Combined)	U of M	QTY	Rate	Split	Total
<b>RailWorks Labor &amp; Equipment</b>					
Foreman	Hour	256	\$ 98.67	100%	\$ 25,259.52
Laborers	Hour	1024	\$ 91.19	100%	\$ 93,378.56
Operators	Hour	768	\$ 123.90	100%	\$ 95,155.20
Flagger	Hour	256	\$ 98.67	100%	\$ 25,259.52
Hi-Rail Rotary Dump Truck	Hour	256	\$ 40.00	100%	\$ 10,240.00
Ballast Regulator	Hour	256	\$ 94.00	100%	\$ 24,064.00
Crew Truck	Hour	256	\$ 29.00	100%	\$ 7,424.00
Flagger Truck	Hour	256	\$ 15.00	100%	\$ 3,840.00
<i>Subtotal - RWs Labor &amp; Equipment</i>					\$ 284,620.80
<b>Supplies &amp; Rental</b>					
Front End Loader	Month	4	\$ 8,250.00	100%	\$ 33,000.00
Mobilizations (Loaders, Regulators, Hi-Rail Dump Truck)	LS	1	\$ 22,000.00	100%	\$ 22,000.00
<i>Subtotal - Supplies &amp; Rental</i>					\$ 55,000.00

SUBTOTAL: \$ 339,620.80

Materials	10%	Markup: \$	-
Subcontractor	5%	Markup: \$	-
Supplies	15%	Markup: \$	8,250.00
		TOTAL: \$	347,870.80

3.d

Reballast Program - Ballast	U of M	QTY	Rate	Split	Total
Ballast	Ton	1000	\$ 58.00	100%	\$ 58,000.00
					\$ -

SUBTOTAL: \$ 58,000.00

Materials	10%	Markup: \$	5,800.00
Subcontractor	5%	Markup: \$	-
Supplies	15%	Markup: \$	-
		TOTAL: \$	63,800.00

3.f	Capital Program Rail Grinding	U of M	QTY	Rate	Split	Total
<b>RailWorks Labor &amp; Equipment</b>						
	Foreman	HR	240	\$ 98.67	50%	\$ 11,840.40
	Laborer	HR	240	\$ 91.19	50%	\$ 10,942.80
	F350 HiRail Crew Truck	HR	240	\$ 15.00	50%	\$ 1,800.00
	<i>Subtotal - RWs Labor &amp; Equipment</i>					\$ 24,583.20
<b>Subcontractor</b>						
	Mainline Grinding Subcontractor Mobilization	LS	2	\$ 80,000.00	50%	\$ 80,000.00
	Mainline Grinding Contractor Basic Charge	Daily	30	\$ 10,500.00	50%	\$ 157,500.00
	Mainline Grinding Production Charge	Miles	25	\$ 400.00	50%	\$ 5,000.00
	Mainline Grinding Pre-Grind Survey Mobilization	LS	1	\$ 12,500.00	50%	\$ 6,250.00
	Mainline Grinding Pre-Grind Survey Daily Rate	Daily	3	\$ 8,000.00	50%	\$ 12,000.00
	Signal Support	Daily	30	\$ 1,033.00	50%	\$ 15,495.00
	<i>Subtotal - Subcontractor</i>					\$ 276,245.00
<b>Supplies &amp; Rental</b>						
	Fuel for Grinder	Gallon	6000	\$ 7.00	50%	\$ 21,000.00
	Water Truck Rental	Monthly	2	\$ 7,500.00	50%	\$ 7,500.00
	<i>Subtotal - Supplies &amp; Rental</i>					\$ 28,500.00

Total is split 50/50 between R.R. M&O Cost (2.m) and Capital SUBTOTAL: \$ 329,328.20

Materials	10%	Markup: \$	-
Subcontractor	5%	Markup: \$	13,812.25
Supplies	15%	Markup: \$	4,275.00
		TOTAL: \$	347,415.45

3.h-2	Replace 20 Frogs	U of M	QTY	Rate	Split	Total
<b>RailWorks Labor &amp; Equipment</b>						
	Foreman	Hour	160	\$ 98.67	100%	\$ 15,787.20
	Laborers	Hour	320	\$ 91.19	100%	\$ 29,180.80
	Operators	Hour	160	\$ 123.90	100%	\$ 19,824.00
	Welder	Hour	320	\$ 95.68	100%	\$ 30,617.60
	Welder Helper	Hour	320	\$ 91.19	100%	\$ 29,180.80
	Flagger	Hour	320	\$ 98.67	100%	\$ 31,574.40
	Foreman Truck	Hour	160	\$ 29.00	100%	\$ 4,640.00
	Welding Truck	Hour	320	\$ 40.00	100%	\$ 12,800.00
	CWR Rail Heater / Vibrator	Hour	160	\$ 63.00	100%	\$ 10,080.00
	Rail Saw	Hour	160	\$ 11.00	100%	\$ 1,760.00
	Rail Drill	Hour	160	\$ 11.00	100%	\$ 1,760.00
	Mobile Power Pack	Hour	160	\$ 11.00	100%	\$ 1,760.00
	Flagger Truck	Hour	320	\$ 15.00	100%	\$ 4,800.00
	<i>Subtotal - RWs Labor &amp; Equipment</i>					\$ 193,764.80
<b>Materials</b>						
	#10 RBM Frogs	EA	2	\$ 17,600.00	100%	\$ 35,200.00
	#14 RBM Frogs	EA	10	\$ 20,900.00	100%	\$ 209,000.00
	#20 RBM Frogs	EA	8	\$ 25,300.00	100%	\$ 202,400.00
	Thermite Weld Kits	EA	80	\$ 138.00	100%	\$ 11,040.00
	<i>Subtotal - Materials</i>					\$ 457,640.00
<b>Subcontractor</b>						
	Signal Support	Day	20	\$ 1,033.00	100%	\$ 20,660.00
	Trucking Sub	Day	10	\$ 1,350.00	100%	\$ 13,500.00
	<i>Subtotal - Subcontractor</i>					\$ 34,160.00

SUBTOTAL: \$ 685,564.80

Materials	10%	Markup: \$	45,764.00
Subcontractor	5%	Markup: \$	1,708.00
Supplies	15%	Markup: \$	-
		TOTAL: \$	733,036.80

3.h-3 Replace 40 Switch Points and Stock Rails

	U of M	QTY	Rate	Split	Total
<b>RailWorks Labor &amp; Equipment</b>					
Foreman	Hour	160	\$ 98.67	100%	\$ 15,787.20
Laborers	Hour	480	\$ 91.19	100%	\$ 43,771.20
Operators	Hour	320	\$ 123.90	100%	\$ 39,648.00
Welder	Hour	160	\$ 95.68	100%	\$ 15,308.80
Welder Helper	Hour	160	\$ 91.19	100%	\$ 14,590.40
Flagger	Hour	160	\$ 98.67	100%	\$ 15,787.20
Foreman Truck	Hour	160	\$ 29.00	100%	\$ 4,640.00
Welding Truck	Hour	160	\$ 40.00	100%	\$ 6,400.00
CWR Rail Heater / Vibrator	Hour	160	\$ 63.00	100%	\$ 10,080.00
Rail Saw	Hour	160	\$ 11.00	100%	\$ 1,760.00
Rail Drill	Hour	160	\$ 11.00	100%	\$ 1,760.00
Mobile Power Pack	Hour	160	\$ 11.00	100%	\$ 1,760.00
Flagger Truck	Hour	160	\$ 15.00	100%	\$ 2,400.00
<i>Subtotal - RWs Labor &amp; Equipment</i>					\$ 173,692.80
<b>Materials</b>					
Switch Points	EA	20	\$ 9,980.00	100%	\$ 199,600.00
Stock Rails	EA	20	\$ 3,800.00	100%	\$ 76,000.00
Thermite Weld Kits	EA	60	\$ 138.00	100%	\$ 8,280.00
<i>Subtotal - Materials</i>					\$ 283,880.00
<b>Subcontractor</b>					
Signal Support	Day	20	\$ 1,033.00	100%	\$ 19,680.00
Trucking Sub	Day	10	\$ 1,350.00	100%	\$ 12,240.00
<i>Subtotal - Subcontractor</i>					\$ 31,920.00

SUBTOTAL: \$ 489,492.80

Materials	10%	Markup: \$	28,388.00
Subcontractor	5%	Markup: \$	1,596.00
Supplies	15%	Markup: \$	-
		<b>TOTAL: \$</b>	<b>519,476.80</b>

3.h-5 Insulated Joint Replacement

	U of M	QTY	Rate	Split	Total
<b>RailWorks Labor &amp; Equipment</b>					
Foreman	Hour	200	\$ 98.67	100%	\$ 19,734.00
Laborers	Hour	200	\$ 91.19	100%	\$ 18,238.00
Operators	Hour	200	\$ 123.90	100%	\$ 24,780.00
Welder	Hour	200	\$ 95.68	100%	\$ 19,136.00
Welder Helper	Hour	200	\$ 91.19	100%	\$ 18,238.00
Flagger	Hour	200	\$ 98.67	100%	\$ 19,734.00
Foreman Truck	Hour	200	\$ 29.00	100%	\$ 5,800.00
Welding Truck	Hour	200	\$ 40.00	100%	\$ 8,000.00
CWR Rail Heater / Vibrator	Hour	200	\$ 63.00	100%	\$ 12,600.00
Rail Saw	Hour	200	\$ 11.00	100%	\$ 2,200.00
Rail Drill	Hour	200	\$ 11.00	100%	\$ 2,200.00
Mobile Power Pack	Hour	200	\$ 11.00	100%	\$ 2,200.00
Flagger Truck	Hour	200	\$ 15.00	100%	\$ 3,000.00
<i>Subtotal - RWs Labor &amp; Equipment</i>					\$ 155,860.00
<b>Materials</b>					
Thermite Welds	EA	50	\$ 138.00	100%	\$ 6,900.00
Insulated Joint Plug Rails	EA	25	\$ 3,500.00	100%	\$ 87,500.00
<i>Subtotal - Materials</i>					\$ 94,400.00
<b>Subcontractor</b>					
Signal Support	Day	25	\$ 1,033.00	100%	\$ 25,825.00
<i>Subtotal - Subcontractor</i>					\$ 25,825.00

SUBTOTAL: \$ 276,085.00

Materials	10%	Markup: \$	9,440.00
Subcontractor	5%	Markup: \$	1,291.25
Supplies	15%	Markup: \$	-
		<b>TOTAL: \$</b>	<b>286,816.25</b>

3.o	Pump Station Upgrades	U of M	QTY	Rate	Split	Total
	Materials	LS	1	\$ 77,000.00	100%	\$ 77,000.00
	Subcontractor	LS	1	\$ 143,000.00	100%	\$ 143,000.00
SUBTOTAL:						\$ 220,000.00
	Materials			10%	Markup: \$	7,700.00
	Subcontractor			5%	Markup: \$	7,150.00
	Supplies			15%	Markup: \$	-
TOTAL:						\$ 234,850.00

3.r	Trench Emergency Ladder, Stair Study, & Repairs	U of M	QTY	Rate	Split	Total
	Materials - Parts and other materials	LS	1	\$ 60,000.00	100%	\$ 60,000.00
	Subcontractor	LS	1	\$ 60,000.00	100%	\$ 60,000.00
SUBTOTAL:						\$ 120,000.00
	Materials			10%	Markup: \$	6,000.00
	Subcontractor			5%	Markup: \$	3,000.00
	Supplies			15%	Markup: \$	-
TOTAL:						\$ 129,000.00

3.y	Signal Battery Replacement	U of M	QTY	Rate	Split	Total
	Materials - Signal Batteries	Ea	1	\$ 110,000.00	100%	\$ 110,000.00
SUBTOTAL:						\$ 110,000.00
	Materials			10%	Markup: \$	11,000.00
	Subcontractor			5%	Markup: \$	-
	Supplies			15%	Markup: \$	-
TOTAL:						\$ 121,000.00

3.aa-1	Replace Long Beach Diamonds (procurement into 2024)	U of M	QTY	Rate	Split	Total
<b>RailWorks Labor &amp; Equipment</b>						
	Foreman	Hour	100	\$ 98.67	100%	\$ 9,867.00
	Laborers (x4)	Hour	400	\$ 91.19	100%	\$ 36,476.00
	Operators (x2)	Hour	200	\$ 123.90	100%	\$ 24,780.00
	Welder	Hour	100	\$ 95.68	100%	\$ 9,568.00
	Welder Helper	Hour	100	\$ 91.19	100%	\$ 9,119.00
	Flagger	Hour	100	\$ 98.67	100%	\$ 9,867.00
	Foreman Truck	Hour	100	\$ 29.00	100%	\$ 2,900.00
	Welding Truck	Hour	100	\$ 40.00	100%	\$ 4,000.00
	CWR Rail Heater / Vibrator	Hour	40	\$ 63.00	100%	\$ 2,520.00
	Rail Saw	Hour	80	\$ 11.00	100%	\$ 880.00
	Rail Drill	Hour	80	\$ 11.00	100%	\$ 880.00
	Mobile Power Pack	Hour	80	\$ 11.00	100%	\$ 880.00
	Flagger Truck	Hour	100	\$ 15.00	100%	\$ 1,500.00
<i>Subtotal - RWs Labor &amp; Equipment</i>						\$ 113,237.00
<b>Materials</b>						
	Thermite Welds	EA	15	\$ 138.00	100%	\$ 2,070.00
	Ballast	Ton	100	\$ 59.00	100%	\$ 5,900.00
	Diamonds	LS	1	\$ 550,000.00	100%	\$ 550,000.00
	Insulated Joint Plug Rails	EA	12	\$ 3,500.00	100%	\$ 42,000.00
<i>Subtotal - Materials</i>						\$ 599,970.00
<b>Subcontractor</b>						
	Signal Support	Day	5	\$ 1,033.00	100%	\$ 5,165.00
	Subcontract Tamping	Day	2	\$ 5,506.00	100%	\$ 11,012.00
	Subcontract Tamping Mobilization	LS	1	\$ 11,000.00	100%	\$ 11,000.00
<i>Subtotal - Subcontractor</i>						\$ 27,177.00
<b>Supplies &amp; Rental</b>						
	Front End Loader Rental (2x)	Month	2	\$ 8,250.00	100%	\$ 16,500.00
	Front End Loader Mobilization	Ea	4	\$ 127.00	100%	\$ 508.00
<i>Subtotal - Supplies &amp; Rental</i>						\$ 17,008.00
SUBTOTAL:						\$ 757,392.00
	Materials			10%	Markup: \$	59,997.00
	Subcontractor			5%	Markup: \$	1,358.85
	Supplies			15%	Markup: \$	2,551.20
TOTAL:						\$ -

**3.gg-3 Curve Rail Replacement (Furnish and Install 8,000 LF)**

	<b>U of M</b>	<b>QTY</b>	<b>Rate</b>	<b>Split</b>	<b>Total</b>
<b>RailWorks Labor &amp; Equipment</b>					
Foreman	Hour	296	\$ 98.67	100%	\$ 29,206.32
Laborers	Hour	1480	\$ 91.19	100%	\$ 134,961.20
Operators	Hour	592	\$ 123.90	100%	\$ 73,348.80
Welder	Hour	296	\$ 95.68	100%	\$ 28,321.28
Welder Helper	Hour	296	\$ 91.19	100%	\$ 26,992.24
Flagger	Hour	296	\$ 98.67	100%	\$ 29,206.32
Foreman Truck	Hour	592	\$ 29.00	100%	\$ 17,168.00
Welding Truck	Hour	296	\$ 40.00	100%	\$ 11,840.00
CWR Rail Heater / Vibrator	Hour	296	\$ 63.00	100%	\$ 18,648.00
Rail Saw	Hour	296	\$ 11.00	100%	\$ 3,256.00
Rail Drill	Hour	296	\$ 11.00	100%	\$ 3,256.00
Mobile Power Pack	Hour	296	\$ 11.00	100%	\$ 3,256.00
Flagger Truck	Hour	296	\$ 15.00	100%	\$ 4,440.00
Flash-Butt Welding Truck	Hour	232	\$ 220.00	100%	\$ 51,040.00
Flash Weld Support Truck - F350 HR	Hour	232	\$ 15.00	100%	\$ 3,480.00
<i>Subtotal - RWs Labor &amp; Equipment</i>					\$ 438,420.16
<b>Materials</b>					
Rail - 136RE, HH, 80' Lengths, Blank	Ton	270.368	\$ 1,936.00	100%	\$ 523,432.45
Rail Seat Pads, Insulators, Clips (per tie)	Each	5800	\$ 18.00	100%	\$ 104,400.00
Weld Kits	Each	50	\$ 138.00	100%	\$ 6,900.00
<i>Subtotal - Materials</i>					\$ 634,732.45
<b>Subcontractor</b>					
Signal Support	Day	20	\$ 1,033.00	100%	\$ 20,660.00
<i>Subtotal - Subcontractor</i>					\$ 20,660.00
<b>Supplies &amp; Rental</b>					
Front End Loader Rental	Month	2	\$ 8,250.00	100%	\$ 16,500.00
<i>Subtotal - Supplies &amp; Rental</i>					\$ 16,500.00

SUBTOTAL: \$ 1,110,312.61

Materials	10%	Markup: \$	63,473.24
Subcontractor	5%	Markup: \$	1,033.00
Supplies	15%	Markup: \$	2,475.00
		<b>TOTAL: \$</b>	<b>1,177,293.85</b>

**3.II Fixed Trench Ladders**

	<b>U of M</b>	<b>QTY</b>	<b>Rate</b>	<b>Split</b>	<b>Total</b>
Subcontractor Labor, Equipment & Materials	LS	4	\$ 100,000.00	100%	\$ 400,000.00

SUBTOTAL: \$ 400,000.00

Materials	10%	Markup: \$	-
Subcontractor	5%	Markup: \$	20,000.00
Supplies	15%	Markup: \$	-
		<b>TOTAL: \$</b>	<b>420,000.00</b>

**3.mm Miscellaneous Trench Structure Repairs**

	<b>U of M</b>	<b>QTY</b>	<b>Rate</b>	<b>Split</b>	<b>Total</b>
Subcontractor - Labor, Equipment & Materials	LS	1	\$ 60,000.00	100%	\$ 60,000.00

SUBTOTAL: \$ 60,000.00

Materials	10%	Markup: \$	-
Subcontractor	5%	Markup: \$	3,000.00
Supplies	15%	Markup: \$	-
		<b>TOTAL: \$</b>	<b>63,000.00</b>

3.nn Replace Compton Bridge Deck Ties - Track 3

	U of M	QTY	Rate	Split	Total
<b>RailWorks Labor &amp; Equipment (44 Bays at 2 Bays per Shift)</b>					
Foreman & Flagger	Hour	400	\$ 98.67	100%	\$ 39,468.00
Laborers	Hour	1400	\$ 91.19	100%	\$ 127,666.00
Operators	Hour	400	\$ 123.90	100%	\$ 49,560.00
Assistant Foreman	Hour	400	\$ 97.17	100%	\$ 38,868.00
Foreman Truck x2	Hour	400	\$ 29.00	100%	\$ 11,600.00
Flagger Truck	Hour	200	\$ 15.00	100%	\$ 3,000.00
Grapple Truck	Hour	200	\$ 61.00	100%	\$ 12,200.00
Hi-Rail Excavator	Month	3	\$ 11,000.00	100%	\$ 33,000.00
Rail Cart	Hour	200	\$ 11.00	100%	\$ 2,200.00
Mobile Power Pack	Hour	200	\$ 11.00	100%	\$ 2,200.00
Hydraulic Tools x 2	Hour	400	\$ 22.00	100%	\$ 8,800.00
Possible Carryover from Unspent CY2022 Approved Budget	LS	1	\$ 160,000.00	100%	\$ 160,000.00
<i>Subtotal - RWs Labor &amp; Equipment</i>					\$ 488,562.00
<b>Materials</b>					
Bridge Timbers - 10"x10"x10' SYP, Dapped, Pre-Drilled, then Treated	Each	300	\$ 350.00	100%	\$ 105,000.00
Sidewalk Support Timbers - 4'x10'x14' DF, Cut, Dapped, Treated	Each	150	\$ 200.00	100%	\$ 30,000.00
Timber Guard - 4-1/2 x 7-1/2 x 8' DF, Cut, Treated	Each	120	\$ 115.00	100%	\$ 13,800.00
Rolled Pandrol Tie Plates - 136RE, 4R/2SQ	Each	600	\$ 30.00	100%	\$ 18,000.00
E-Clips - RH Galvanized	Each	1200	\$ 10.00	100%	\$ 12,000.00
15/16" x 6-1/2" Evergrip Coach Screws	Each	2400	\$ 6.00	100%	\$ 14,400.00
Rail - 136RE (500TF plus waste)	Ton	26	\$ 1,936.00	100%	\$ 50,336.00
Weld Kits	Each	30	\$ 138.00	100%	\$ 4,140.00
Miscellaneous Hardware	LS	1	\$ 8,250.00	100%	\$ 8,250.00
Fall Protection Materials	LS	1	\$ 11,000.00	100%	\$ 11,000.00
<i>Subtotal - Materials</i>					\$ 266,926.00
<b>Subcontractor</b>					
Tie Disposal	EA	600	\$ 22.00	100%	\$ 13,200.00
Signal Support	Day	50	\$ 1,033.00	100%	\$ 51,650.00
<i>Subtotal - Subcontractor</i>					\$ 64,850.00

SUBTOTAL: \$ 820,338.00

Materials	10%	Markup: \$	26,692.60
Subcontractor	5%	Markup: \$	3,242.50
Supplies	15%	Markup: \$	-
		<b>TOTAL: \$</b>	<b>850,273.10</b>

3.oo	Replacement of M23A Switches Machines	U of M	QTY	Rate	Split	Total
	M23A Switch Machine Materials - Refurbishments	EA	4	\$ 25,000.00	100%	\$ 100,000.00
						\$ -
						SUBTOTAL: \$ 100,000.00
				Materials	10% Markup:	\$ 10,000.00
				Subcontractor	5% Markup:	\$ -
				Supplies	15% Markup:	\$ -
					TOTAL:	\$ 110,000.00

3.pp	Signal Module VHLC Replacements to XLC - Repeat for 3 Locations	U of M	QTY	Rate	Split	Total
	<b>Materials</b>					
	Materials - New XLC Module	EA	3	\$ 36,300.00	100%	\$ 108,900.00
	Design Changes and Prints	EA	3	\$ 3,850.00	100%	\$ 11,550.00
	Software + Engineering	EA	3	\$ 6,050.00	100%	\$ 18,150.00
						<i>Subtotal - Materials</i> \$ 138,600.00
	<b>Subcontractor</b>					
	Signal Subcontractor	Days	3	\$ 1,033.00	100%	\$ 3,099.00
						<i>Subtotal - Subcontractor</i> \$ 3,099.00
						SUBTOTAL: \$ 141,699.00
				Materials	10% Markup:	\$ 13,860.00
				Subcontractor	5% Markup:	\$ 154.95
				Supplies	15% Markup:	\$ -
					TOTAL:	\$ 155,713.95

3.qq	Furnish and Replace Rail Lubricator Systems	U of M	QTY	Rate	Split	Total
	<b>Railworks Labor &amp; Equipment</b>					
	Foreman	Hour	40	\$ 98.67	100%	\$ 3,946.80
	Laborers	Hour	80	\$ 91.19	100%	\$ 7,295.20
	Foreman Truck	Hour	40	\$ 29.00	100%	\$ 1,160.00
						<i>Subtotal - RWs Labor &amp; Equipment</i> \$ 12,402.00
	<b>Furnish and Replace Rail Lubricator Systems</b>					
	Rail Wheel Lubricator System	EA	2	\$ 41,000.00	100%	\$ 82,000.00
						<i>Subtotal - Materials</i> \$ 82,000.00
						SUBTOTAL: \$ 94,402.00
				Materials	10% Markup:	\$ 8,200.00
				Subcontractor	5% Markup:	\$ -
				Supplies	15% Markup:	\$ -
					TOTAL:	\$ 102,602.00

Attachments 5 – Proposed 2023 O&M Budget

### Alameda Corridor - Proposed Draft CY2023 Operations & Maintenance (O&M) Budget

		Calendar Year 2023					Amended Calendar Year 2022				Variance											
		Basis of Apportionment		R.R. M & O Rail Cost	Reserve Account Non-	ACTA Operating	Total	R.R. M & O Rail Cost	Reserve Account Non-	ACTA Operating	Total	CY23-CY22	% Change									
		GR Ton MI	Train MI	(A)	Rail Cost (B)	Budget Cost (C)		(A)	Rail Cost (B)	Budget Cost (C)												
<b>I. Labor &amp; Operations Maintenance: (1. Labor, 2. Operations Maintenance)</b>																						
1.a.i	Contract Manager		TM	227,486.00	64,996.00	32,498.00	324,980.00	220,863.97	63,103.99	31,552.00	315,519.95	\$	9,460	3.0%								
1.a.ii	Track Supervisor	GTM		205,248.00	51,312.00	-	256,560.00	199,275.76	49,818.94	-	249,094.70	\$	7,465	3.0%								
1.a.iii	Safety Supervisor	GTM		205,248.00	51,312.00	-	256,560.00	199,275.76	49,818.94	-	249,094.70	\$	7,465	3.0%								
1.a.iv	Office Manager		TM	59,870.00	59,870.00	-	119,740.00	58,122.10	58,122.10	-	116,244.19	\$	3,496	3.0%								
1.a.v	Office Assistant		TM	59,870.00	59,870.00	-	119,740.00	58,122.10	58,122.10	-	116,244.19	\$	3,496	3.0%								
1.b	Track Inspector	GTM		211,541.68	-	-	211,541.68	202,312.96	-	-	202,312.96	\$	9,229	4.6%								
1.b.i	Track Foreman	GTM		423,083.36	-	-	423,083.36	202,312.96	-	-	202,312.96	\$	220,770	109.1%								
1.b.ii	Assistant Foreman	GTM		-	-	-	-	199,076.73	-	-	199,076.73	\$	(199,077)	-100.0%								
1.b.iii	Track Laborers	GTM		761,899.87	19,535.89	-	781,435.76	725,914.11	18,613.18	-	744,527.29	\$	36,908	5.0%								
1.b.iv	Equipment Operators		TM	388,674.22	9,966.01	-	398,640.23	363,631.52	9,323.89	-	372,955.41	\$	25,685	6.9%								
1.b.v	Welder	GTM		410,144.86	-	-	410,144.86	391,681.01	-	-	391,681.01	\$	18,464	4.7%								
1.b.vi	Welder Helper	GTM		195,358.94	-	-	195,358.94	186,131.82	-	-	186,131.82	\$	9,227	5.0%								
1.b.vii	Laborer (Non-Rail)		TM	-	195,358.94	-	195,358.94	-	186,131.82	-	186,131.82	\$	9,227	5.0%								
1.b.viii	Foreman (Non-Rail)		TM	-	211,541.68	-	211,541.68	-	202,312.96	-	202,312.96	\$	9,229	4.6%								
1.b.ix	Track Superintendent	GTM		134,166.71	134,166.71	-	268,333.41	139,530.03	139,530.03	-	279,060.05	\$	(10,727)	-3.8%								
2.b	Pump Station Maintenance		TM	-	15,480.00	-	15,480.00	-	13,416.00	-	13,416.00	\$	2,064	15.4%								
2.b.i	Pump Station Repairs and Supplies (Subcontractor)		TM	-	34,815.00	-	34,815.00	-	31,650.00	-	31,650.00	\$	3,165	10.0%								
2.c	AEI & Other Communications Maintenance		TM	244,287.00	-	147,952.89	392,239.89	202,587.42	-	122,697.45	325,284.87	\$	66,955	20.6%								
2.d	Rail Flaw Detection (Subcontractor)	GTM		63,000.00	-	-	63,000.00	56,700.00	-	-	56,700.00	\$	6,300	11.1%								
2.e	Graffiti Control		TM	-	30,726.00	-	30,726.00	-	27,276.00	-	27,276.00	\$	3,450	12.6%								
2.f	Weed Abatement (Subcontractor)		TM	56,390.40	14,097.60	-	70,488.00	53,568.00	13,392.00	-	66,960.00	\$	3,528	5.3%								
2.g	Safety Training (Subcontractor)		TM	29,006.25	5,118.75	-	34,125.00	27,221.25	4,803.75	-	32,025.00	\$	2,100	6.6%								
2.h	Safety Management		TM	20,750.63	3,661.88	-	24,412.50	20,750.63	3,661.88	-	24,412.50	\$	-	0.0%								
2.i	Vehicles	GTM		273,996.00	91,332.00	-	365,328.00	249,198.00	60,290.40	2,115.60	311,604.00	\$	53,724	17.2%								
2.l	Full-Time Equipment	GTM		288,960.00	-	-	288,960.00	262,128.00	-	-	262,128.00	\$	26,832	10.2%								
2.m	Maintenance Program Rail Grinding - (50% of Total Cost)	GTM		347,415.45	-	-	347,415.45	304,062.49	-	-	304,062.49	\$	43,353	14.3%								
2.n	Track Materials / Supplies / Rentals	GTM		303,600.00	-	-	303,600.00	264,000.00	-	-	264,000.00	\$	39,600	15.0%								
2.o	Signal Maintenance (Subcontractor)		TM	2,233,564.58	-	-	2,233,564.58	1,553,671.90	-	-	1,553,671.90	\$	679,893	43.8%								
2.p	Ladder / Fence / Traffic Support (Subcontractor)		TM	-	307,461.00	-	307,461.00	-	279,510.00	-	279,510.00	\$	27,951	10.0%								
2.q	Security - Trench Cameras		TM	14,322.00	5,115.00	1,023.00	20,460.00	14,322.00	5,115.00	1,023.00	20,460.00	\$	-	0.0%								
2.r	Security / Yard & Office Maintenance & Support (Subcontractor)		TM	259,182.00	-	-	259,182.00	233,415.00	-	-	233,415.00	\$	25,767	11.0%								
2.s	Underwater Bridge Inspection (Not until 2023)		TM	51,187.50	-	-	51,187.50	-	-	-	-	\$	51,188									
2.t	Trench Ditch Cleaning		TM	-	73,500.00	-	73,500.00	-	46,200.00	-	46,200.00	\$	27,300	59.1%								
2.v	Replace Signal Wire on the Corridor (Subcontractor)		TM	-	-	-	-	-	-	-	-	\$	-									
2.w	Railroad Reporting and Record Keeping Software System (Subcontractor)		TM	46,620.00	-	-	46,620.00	44,100.00	-	-	44,100.00	\$	2,520	5.7%								
2.x	Railroad Emergency Drill Exercise		TM	29,808.04	-	-	29,808.04	27,342.80	-	-	27,342.80	\$	2,465	9.0%								
2.dd	Bridge Inspections (Subcontractor)	GTM		-	-	-	-	35,700.00	-	-	35,700.00	\$	(35,700)	-100.0%								
2.ee	Communication System Repair	GTM		4,000,000.00	-	-	4,000,000.00	1,317,530.00	-	-	1,317,530.00	\$	2,682,470	203.6%								
Subtotal Labor & Operations Maintenance				\$	11,544,681.48	\$	1,439,236.45	\$	181,473.89	\$	13,165,391.82	\$	7,812,548.32	\$	1,320,212.97	\$	157,388.05	\$	9,290,149.34	\$	3,875,242.48	41.7%

	Calendar Year 2023					Amended Calendar Year 2022				Variance		
	Basis of Apportionment		R.R. M & O Rail Cost	Reserve Account Non-	ACTA Operating	Total	R.R. M & O Rail Cost	Reserve Account Non-	ACTA Operating	Total	CY23-CY22	% Change
	GR Ton MI	Train MI	(A)	Rail Cost (B)	Budget Cost (C)		(A)	Rail Cost (B)	Budget Cost (C)			
<b>II. Capital Costs</b>												
3.a	Surfacing & Mobilization	GTM	\$ -	\$ 549,390.90	\$ -	\$ 549,390.90	\$ -	\$ 503,065.67	\$ -	\$ 503,065.67	\$ 46,325.23	9.2%
3.c	Reballast Program - Labor & Equipment		\$ -	\$ 347,870.80	\$ -	\$ 347,870.80	\$ -	\$ 324,775.97	\$ -	\$ 324,775.97	\$ 23,094.83	7.1%
3.d	Reballast Program - Ballast		\$ -	\$ 63,800.00	\$ -	\$ 63,800.00	\$ -	\$ 58,300.00	\$ -	\$ 58,300.00	\$ 5,500.00	9.4%
3.f	Capital Program Rail Grinding - (50% of Total Cost)	GTM	\$ -	\$ 347,415.45	\$ -	\$ 347,415.45	\$ -	\$ 304,062.49	\$ -	\$ 304,062.49	\$ 43,352.96	14.3%
3.h-2	Replace 20 Frogs		\$ -	\$ 733,036.80	\$ -	\$ 733,036.80	\$ -	\$ 728,557.20	\$ -	\$ 728,557.20	\$ 4,479.60	0.6%
3.h-3	Replace 40 Switch Point and Stock Rail		\$ -	\$ 519,476.80	\$ -	\$ 519,476.80	\$ -	\$ 458,201.73	\$ -	\$ 458,201.73	\$ 61,275.07	13.4%
3.h-5	Insulated Joint Replacement		\$ -	\$ 286,816.25	\$ -	\$ 286,816.25	\$ -	\$ 256,060.44	\$ -	\$ 256,060.44	\$ 30,755.81	12.0%
3.o	Pump Station Upgrades (Subcontractor)	GTM	\$ -	\$ 234,850.00	\$ -	\$ 234,850.00	\$ -	\$ 213,500.00	\$ -	\$ 213,500.00	\$ 21,350.00	10.0%
3.r	Trench Emergency Ladder, Stair Study, & Repairs (Subcontractor)		\$ -	\$ 129,000.00	\$ -	\$ 129,000.00	\$ -	\$ 129,000.00	\$ -	\$ 129,000.00	\$ -	0.0%
3.w.1	Rehab Henry Ford Crossing - Near PHL Offices N of Bridge		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
3.y	Signal Battery Replacement		\$ -	\$ 121,000.00	\$ -	\$ 121,000.00	\$ -	\$ 110,000.00	\$ -	\$ 110,000.00	\$ 11,000.00	10.0%
3.aa-1	Replace Crucero Diamonds		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 631,773.17	\$ -	\$ 631,773.17	\$ (631,773.17)	-100.0%
3.gg-3	Curve Rail Replacement		\$ -	\$ 1,177,293.85	\$ -	\$ 1,177,293.85	\$ -	\$ 657,204.85	\$ -	\$ 657,204.85	\$ 520,089.01	79.1%
3.ii	Fixed Trench Ladders (Subcontractor)		\$ -	\$ 420,000.00	\$ -	\$ 420,000.00	\$ -	\$ 420,000.00	\$ -	\$ 420,000.00	\$ -	0.0%
3.mm	Miscellaneous Trench Structure Repairs (Subcontractor)		\$ -	\$ 63,000.00	\$ -	\$ 63,000.00	\$ -	\$ 63,000.00	\$ -	\$ 63,000.00	\$ -	0.0%
3.nn	Compton Bridges - Replace Deck Ties		\$ -	\$ 850,273.10	\$ -	\$ 850,273.10	\$ -	\$ 572,913.23	\$ -	\$ 572,913.23	\$ 277,359.87	48.4%
3.oo	Replacement of M23A Switches Machines		\$ -	\$ 110,000.00	\$ -	\$ 110,000.00	\$ -	\$ 30,800.00	\$ -	\$ 30,800.00	\$ 79,200.00	257.1%
3.pp	Signal Module VHLC Replacements to XLC		\$ -	\$ 155,713.95	\$ -	\$ 155,713.95	\$ -	\$ 141,699.60	\$ -	\$ 141,699.60	\$ 14,014.35	9.9%
3.qq	Furnish and Replace Rail Lubricator Systems		\$ -	\$ 102,602.00	\$ -	\$ 102,602.00	\$ -	\$ 86,411.66	\$ -	\$ 86,411.66	\$ 16,190.34	18.7%
	<b>Subtotal Capital Costs</b>		\$ -	\$ 6,211,539.90	\$ -	\$ 6,211,539.90	\$ -	\$ 5,689,326.00	\$ -	\$ 5,689,326.00	\$ 522,213.90	9.2%
	<b>Subtotal of I &amp; II</b>		\$ 11,544,681.48	\$ 7,650,776.35	\$ 181,473.89	\$ 19,376,931.72	\$ 7,812,548.32	\$ 7,009,538.97	\$ 157,388.05	\$ 14,979,475.33	\$ 4,397,456.38	29.4%
	<b>Multiple use contingency for 2023, not in MOW Budget but included in O&amp;M Total</b>					\$ 500,000.00				\$ 500,000.00	\$ -	0.0%
<b>III. Operating &amp; Other Costs</b>												
	Insurance (annual amount) (8)	TM	\$ 1,863,000.00	\$ -	\$ -	\$ 1,863,000.00	\$ 1,600,000.00	\$ -	\$ -	\$ 1,600,000.00	\$ 263,000.00	16.4%
	Dispatching (1)	(9)	\$ 662,385.79	\$ -	\$ -	\$ 662,385.79	\$ 662,385.79	\$ -	\$ -	\$ 662,385.79	\$ -	0.0%
	Security - Labor (2)	(9)	\$ 1,455,116.00	\$ -	\$ -	\$ 1,455,116.00	\$ 1,455,116.00	\$ -	\$ -	\$ 1,455,116.00	\$ -	0.0%
	Security - Equipment (3)	(9)	\$ 281,540.40	\$ -	\$ -	\$ 281,540.40	\$ 281,540.40	\$ -	\$ -	\$ 281,540.40	\$ -	0.0%
	Utilities (5)	TM	\$ 220,000.00	\$ -	\$ -	\$ 220,000.00	\$ 214,000.00	\$ -	\$ -	\$ 214,000.00	\$ 6,000.00	2.8%
	Storm Water Discharge Permits, Water Testing & Support Services (4)	TM	\$ 75,000.00	\$ -	\$ -	\$ 75,000.00	\$ 75,000.00	\$ -	\$ -	\$ 75,000.00	\$ -	0.0%
	Provide 3rd Party Security Monitoring & Support Services	TM	\$ 4,000.00	\$ -	\$ -	\$ 4,000.00	\$ 3,500.00	\$ -	\$ -	\$ 3,500.00	\$ 500.00	14.3%
	M&O or Capital Reserve Support Service (6)	TM	\$ 698,400.00	\$ 264,827.00	\$ -	\$ 963,227.00	\$ 426,039.00	\$ 142,013.00	\$ -	\$ 568,052.00	\$ 395,175.00	69.6%
	Communications Network and Alarm/Phone Upgrades and Renewals	TM	\$ 35,000.00	\$ -	\$ -	\$ 35,000.00	\$ 30,000.00	\$ -	\$ -	\$ 30,000.00	\$ 5,000.00	16.7%
	Rehab Henry Ford Crossing @ CP Dominguez (Engineering & Permits) (Also see 3.w.)	TM	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	PRE Signal Plan Updates for Various Control Points	TM	\$ 30,000.00	\$ -	\$ -	\$ 30,000.00	\$ 50,000.00	\$ -	\$ -	\$ 50,000.00	\$ (20,000.00)	-40.0%
	Extraordinary Right-of-Way Cleanup	TM	\$ 175,000.00	\$ -	\$ -	\$ 175,000.00	\$ 150,000.00	\$ -	\$ -	\$ 150,000.00	\$ 25,000.00	16.7%
	AEI Readers Component Replacements	Special Apportionment	\$ 15,575.00	\$ -	\$ 9,425.00	\$ 25,000.00	\$ 15,575.00	\$ -	\$ 9,425.00	\$ 25,000.00	\$ -	0.0%
	<b>Subtotal Operating &amp; Other Costs</b>		\$ 5,515,017.19	\$ 264,827.00	\$ 9,425.00	\$ 5,789,269.19	\$ 4,963,156.19	\$ 142,013.00	\$ 9,425.00	\$ 5,114,594.19	\$ 674,675.00	13.2%
	<b>Total of I, II, &amp; III</b>		\$ 17,059,698.67	\$ 7,915,603.35	\$ 190,898.89	\$ 25,666,200.91	\$ 12,775,704.51	\$ 7,151,551.97	\$ 166,813.05	\$ 20,594,069.52	\$ 5,072,131.38	24.6%

(1,2,3) These costs are for memorandum purposes only & 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

\* \$250k of 500K contingency use for 2.ff approved by ODG in March / April 2022

(7) Split based upon allocation plan for installation & maintenance agreed to by ACTA and the Railroads

(8) Estimate based on 2022 plus 10 increase

(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