25-18-014-PIF

PUBLIC INTEREST FINDING

CR18 Anchorage Intersection Pavement Markings

Program Number: CFHWY00345

The purpose for this Public Interest Finding (PIF) is to acknowledge that it is both cost effective and in the best public's best interest to use Federal-aid funding for intersection pavement Markings as part of the existing Transfer of Responsibilities Agreement (TORA) between the Department of Transportation and Public Facilities (DOT&PF) and Municipality of Anchorage (MOA).

Project Background:

This project is a part of the Central Region (CR) 2018 Maintenance and Operations Preventative Maintenance & Repairs Program. The scope of this project is repainting existing pavement markings on state owned roadway intersections within the city of Anchorage to improve visibility and roadway safety.

The DOT&PF and MOA negotiated and enter into the TORA in 2005 for maintenance activities associated with roadway traffic control devices (lighting, signage, pavement markings) within Anchorage. The TORA assigns maintenance responsibilities to MOA for state owned facilities. In return the DOT&PF provides the MOA with compensation equitable to the cost of performing these maintenance activities. The subject project and this Public Interest Finding pertain only to pavement markings.

Public Interest Justification

A majority of this project's work locations have both DOT&PF and MOA owned pavement markings that act in unison of each other. Allowing the MOA to perform maintenance of these markings is beneficial for the public for the following –

1. Impacts to the traveling public (e.g. lane closures) are reduced because only one entity is conducting maintenance activities.
2. Pavement markings on State owned roads are identical to those on MOA roadways, thus reducing any confusion for the traveling public.

Cost Effective Justification

This project is cost effective for the following –

1. Pavement markings under the TORA, on average, cost 30% less when compared to Matanuska-Susitna M&O District pavement markings, which is the only current contract bid project in CR with similar pricing data (see attached).
2. The MOA is intimately familiar with the existing pavement markings on State owned roads within the municipality and does not require additional information and design that would be necessary for a contract through a bid package
3. The MOA is fully aware of current roadway conditions and have the ability to modify their work if need be, thus avoiding delays for negotiation changes and other engineering costs associated with competitive bid.

4. The MOA signal maintenance staff are fully equipped to do this work and can do so efficiently because many locations are adjacent to MOA owned facilities that require similar pavement markings.
5. Materials can be ordered by the MOA in bulk quantity instead of small multiple orders for the same amount of material. Bulk orders are typically less expensive and take precedence over small orders. In addition, bulk orders are typically shipped out at the same time.
6. Competitively bidding this project would cost more as a result of more extensive design work, contract administration, advertising, construction engineering, mobilization and change orders.

It is hereby found in the public interest and consist with Code of Federal Regulation Title 23, Section 635.205 and Alaska DOT&PF Policy and procedure 10.02.013 to use Federal-aid funds and state matching funds for this project.

Submitted by;

11/7/2017

Burrell L. Nickeson, AKDOT&PF Project Manager, Maintenance & Operations

Recommended by;

11-17-2017

Dave Kemp, P.E., AKDOT&PF Central Region Director

Approved by;

11/17/17

Charlie Deininger, AKDOT&PF Chief Contracts Officer

CR18 Anchorage Intersection Pavement Markings - CFHWY00345
Cost of TORA vs. Cost of Matanuska-Susitna Contract Pavement Markings

Matanuska - Susitna Pavement Markings Contract

Item	Pay Unit	Qty	Cost
Arrow	Each	1	$110.00
24" line	Linear Foot	1'	$2.50

Anchorage Intersection Markings - TORA

Item	Pay Unit	Qty	Cost
Intersection (includes all arrows, 24" line, ONLY)	Lump Sum	1	$1,257.65

The following represents estimated pavement marking costs at various Anchorage intersections (included in the TORA) when using current Contractor rates from the Matanuska-Susitna Pavement Markings contract (summer 2017).

Intersection: Muldoon & Debarr

Item:	Pay Unit	Qty:	Cost	Total:
Arrow	Each	14	$110.00	$1,540.00
24" line	Linear Foot	473	$2.50	$1,182.50
			Total (all Items):	$2,722.50

Intersection: Abbott & Lake Otis

Item:	Pay Unit	Qty:	Cost	Total:
Arrow	Each	13	$110.00	$1,430.00
24" line	Linear Foot	564	$2.50	$1,410.00
			Total (all Items):	$2,840.00

Intersection: Muldoon & 12th

Item:	Pay Unit	Qty:	Cost	Total:
Arrow	Each	7	$110.00	$770.00
24" line	Linear Foot	32	$2.50	$80.00
			Total (all Items):	$850.00

Intersection: C & 4th

Item:	Pay Unit	Qty:	Cost	Total:
Arrow	Each	2	$110.00	$220.00
24" line	Linear Foot	365	$2.50	$912.50
			Total (all Items):	$1,132.50

Intersection: 6th & Ingra

Item:	Pay Unit	Qty:	Cost	Total:
Arrow	Each	6	$110.00	$660.00
24" line	Linear Foot	300	$2.50	$750.00
			Total (all Items):	$1,410.00

Intersection: Boniface & 34th

Item:	Pay Unit	Qty:	Cost	Total:
Arrow	Each	8	$110.00	$880.00
24" line	Linear Foot	533	$2.50	$1,332.50
			Total (all Items):	$2,212.50

Intersection: Northern Lights & Minnesota

Item:	Pay Unit	Qty:	Cost	Total:
Arrow	Each	13	$110.00	$1,430.00
24" line	Linear Foot	417	$2.50	$1,042.50
			Total (all Items):	$2,472.50

Intersection: 5th & Cordova

Item:	Pay Unit	Qty:	Cost	Total:
Arrow	Each	0	$110.00	$0.00
24" line	Linear Foot	398	$2.50	$995.00
			Total (all Items):	$995.00

Intersection: Jewel Lake & 88th

Item:	Pay Unit	Qty:	Cost	Total:
Arrow	Each	5	$110.00	$550.00
24" line	Linear Foot	429	$2.50	$1,072.50
			Total (all Items):	$1,622.50

Intersection: 5th & Reeve

Item:	Pay Unit	Qty:	Cost	Total:
Arrow	Each	13	$110.00	$1,430.00
24" line	Linear Foot	456	$2.50	$1,140.00
			Total (all Items):	$2,570.00

Intersection: Eagle River Lp & Hiland

Item:	Pay Unit	Qty:	Cost	Total:
Arrow	Each	6	$110.00	$660.00
24" line	Linear Foot	539	$2.50	$1,347.50
			Total (all Items):	$2,007.50

Intersection: I St & 13th

Item:	Pay Unit	Qty:	Cost	Total:
Arrow	Each	0	$110.00	$0.00
24" line	Linear Foot	281	$2.50	$702.50
			Total (all Items):	$702.50

Summary of Anchorage intersection costs when applying items costs from Matanuska-Susitna Pavement Markings Contract:

		Cost:	Total:
Average Qty. Arrows Per Inersection:	7.25	$110.00	$797.50
Average Qty. 24" line (lf) Per Intersection:	398.92	$2.50	$997.29

Total Average Cost Per Intersection: $1,794.79

Note: This total does not include ONLY markings. If ONLY markings were included it's assumed the total contractor cost would be higher.

Findings: **The costs to apply pavement markings on an intersection using the TORA is less than Contractor rates for the same intersection.** **30%**