



COLORADO
Department of Transportation
Division of Accounting and Finance

4201 East Arkansas Avenue, Room 262
Denver, CO 80222-3400
(303)757-9793

MEMORANDUM

TO: Transportation Commission (TC)
FROM: Maria J. Sobota, Chief Financial Officer
DATE: April 20, 2017
Subject: Tenth Budget Supplement- FY 2016-17

Purpose

Department staff has prepared this budget supplement package for TC consideration.

The project requests included in the Supplement are consistent with the FY 2017 through FY 2020 STIP. Funds are available from the Regions' allocations unless otherwise indicated.

Per Transportation Commission direction, Emergency Relief project updates are included in the Budget Supplement.

Options and Recommendations

The TC is requested to review and provide either approval or request changes or additional information on the items being presented in this supplement.

Region 1

\$1,174,594– Sheridan Resurfacing Hampden to Arizona- Surface Treatment Program-
This project will be for curb ramp replacement and paving operations on Sheridan Blvd between Hampden and Arizona. Staff is requesting additional funding in order to award this project. The increase to the budget is due to night work and limits imposed on night time milling with noise restrictions in the City of Denver. These restrictions caused bids to come in higher than originally anticipated. (19644)

Sheridan Resurfacing Hampden to Arizona
Budget Components by Phase, Funding Program, Fiscal Year

Phase of Work	Funding Program	Current Budget	Supplement Action				Revised Budget	Expended To-Date
			Year of Budget			Total Request	Percent Increase	
			FY 2017	FY 2018	FY 2019			
ROW	<i>Surface Treatment</i>	\$233,451	\$0	\$0	\$0	\$0		\$233,451
	Total ROW	\$233,451	\$0	\$0	\$0	\$0		\$24,228
Design	<i>Surface Treatment</i>	\$278,158	\$0	\$0	\$0	\$0		\$278,158
	Total Design	\$278,158	\$0	\$0	\$0	\$0		\$214,751
Construction	<i>Surface Treatment</i>	\$5,380,000	\$0	\$1,174,594	\$0	\$1,174,594		\$6,554,594
	Total Construction	\$5,380,000	\$0	\$1,174,594	\$0	\$1,174,594		\$0
Total Project Budget		\$5,891,609	\$0	\$1,174,594	\$0	\$1,174,594	20%	\$7,066,203
			Year of Expenditure			Total Request		
			FY 2017	FY 2018	FY 2019			
			\$0	\$1,174,594	\$0	\$1,174,594		

This item is being included in the Supplement per PD703.0 as the increase is above 15% and \$500,000 thresholds

RAMP

Region 3

\$1,897,109 – Glenwood Canyon Variable Speed Limit Signing – RAMP

Operations- Request to utilize RAMP Operations Contingency funds to re-initiate previously shelved RAMP project. The project was previously shelved in order to move forward with a separate RAMP Operations project due to increased cost estimate. Additional funds from RAMP Operations, ITS, and Highway Safety Improvement Program funds for total project cost of \$4,800,000.

Per PD703.0 this project is being brought to the Commission as it requires RAMP funds from the RAMP contingency pool. If there are bid savings upon award, the additional RAMP funds are to be returned to the RAMP contingency fund. Refer to the Program Management Office informational memo.

Transportation Commission Contingency Reserve

Division of Highway Maintenance (DHM)

\$747,000 – Staff is requesting a transfer from the *Transportation Commission Contingency for Snow and Ice* to the Durango, Alamosa maintenance sections along with the Durango Traffic sections. DHM is projecting a shortfall of \$2.4M if Maintenance continues to spend snow removal funds at the current rate. DHM is requesting 60% of the projected shortfall amount be transferred to keep these maintenance and traffic sections solvent for the winter season. (PST-TCS-17)

Please refer to attached FY17 April Snow and Ice Contingency Request memo.

Region 3

\$1,500,000 – Frost Heave Remediation on Vail Pass – Staff is requesting a transfer from the *Transportation Commission Contingency Reserve Fund* to the Region 3 TCC pool. In recent years frost heaves on the west side of Vail Pass have progressively worsened over the years in winter creating a huge safety issue. Thirteen frost heaves were present this winter between I-70 MP 183-190. The requested funding will be used to remediate the frost heave issues at each of these locations. (PST-TCC-17)

Please refer to attached Region 3 Frost Heave memo for further information.

TCCRF Returns

\$500,000- TCCRF- Correction to February reported FY17 Capital Construction funds. These funds were previously accounted for in the FY 2016-2017 Budget and should not be recorded as additional funds.

Please refer to the Transportation Commission Contingency Fund Reconciliation to see this transaction.

COLORADO DEPARTMENT OF TRANSPORTATION

STATE OF COLORADO

**Tenth
Supplement**

Fiscal Year 2016-2017

Dated:

April 20, 2017

COLORADO DEPARTMENT OF TRANSPORTATION

STATE OF COLORADO

RESOLUTION NO. TC –

**“BE IT RESOLVED, That the Tenth Supplement to the Fiscal Year 2016-2017
Budget be approved by the Commission”**

**Transportation Commission Contingency Reserve Fund Reconciliation
Tenth Supplement FY 2017 Budget**

Transaction Date	Transaction Description	Amount	Balance	Reference Document
June-16	<i>Ending Balance 12S16</i>		\$79,876,372	
July-16	<i>Balance 1S17</i>		\$89,842,565	
August-16	<i>Balance 2S17</i>		\$76,456,318	
September-16	<i>Balance 3S17</i>		\$154,235,405	
October-16	<i>Balance 4S17</i>		\$147,905,203	
November-16	<i>Balance 5S17</i>		\$150,836,919	
December-16	<i>Balance 6S17</i>		\$150,468,438	
January-17	<i>Balance 7S17</i>		\$150,801,899	
February-17	<i>Balance 8S17</i>		\$81,970,989	
March-17	<i>Pending Balance 9S17</i>		\$78,017,797	
	<i>State match for ER permanent repair projects</i>	\$ (257,103)		Various
<i>Reverse</i>	<i>Duplicate Entry FY17 Capital Construction Funds</i>	\$ (500,000)		Reversal
	<i>Region 3 Frost Heave Remediation Vail Pass</i>	\$ (1,500,000)		Pending
	<i>Savings Region 3 21433 I-70 GWC Perm Rockfall</i>	\$ 1,449,497		1000236831
	<i>Savings from Region 4</i>	\$ 369,428		1000237207
	<i>SH133 Risk Payment</i>	\$ 263,692		1000236280
April-17	<i>Pending Balance 10S17</i>		\$77,843,311	

**Transportation Commission Contingency Snow & Ice Fund Reconciliation
Tenth Supplement FY 2017 Budget**

Transaction Date	Transaction Description	Amount	Balance	Reference Document
	<i>FY17 Budget Allocation</i>	\$10,000,000		1000223849
July-16	<i>Balance 1S17</i>		\$10,000,000	
August-16	<i>Balance 2S17</i>		\$10,000,000	
September-16	<i>Balance 3S17</i>		\$10,000,000	
October-16	<i>Balance 4S17</i>		\$10,000,000	
November-16	<i>Balance 5S17</i>		\$10,000,000	
December-16	<i>Balance 6S17</i>		\$10,000,000	
January-17	<i>Balance 7S17</i>		\$10,000,000	
February-17	<i>Balance 8S17</i>		\$9,183,210	
March-17	<i>Pending Balance 9S17</i>		\$7,109,210	
	<i>Transfer to Maintenance and Traffic sections per attached memo</i>	(\$747,000)		Pending
April-17	<i>Pending Balance 10S17</i>		\$6,362,210	

**Transportation Commission Contingency RAMP Reserve
Tenth Supplement FY 2017 Budget**

Transaction Date	Transaction Description	Amount	Balance
June-16	<i>Balance 12S16</i>		\$1,619,839
July-16	<i>Balance 1S17</i>		\$1,619,839
August-16	<i>Balance 2S17</i>		\$1,619,839
September-16	<i>Balance 3S17</i>		\$1,619,839
October-16	<i>Balance 4S17</i>		\$1,619,839
November-16	<i>Balance 5S17</i>		\$1,619,839
December-16	<i>Balance 6S17</i>		\$1,619,839
January-17	<i>Balance 7S17</i>		\$1,619,839
February-17	<i>Balance 8S17</i>		\$1,619,839
March-17	<i>Balance 9S17</i>		\$1,619,839
April-17	<i>Balance 10S17</i>		\$1,619,839

**Transportation Commission Contingency Reserve Fund
Emergency and Permanent Repairs-Nonparticipating costs and state match**

September 11, 2013 Flood Related Monthly Activity

Reg	State Highway	Mileposts	Project Description	County	Total Budget TCCRF	projCode
2	025A	154.500 - 155.500	PR CBC Wingwalls and Embank I25-MM144 and 155	El Paso	\$ (181,015)	20606
4	034A	85.944 - 86.449	Bridge Scour Repair I25, US34, SH257, US287	Larimer/Weld	\$ (13,000)	20242
ST	034A	77.000 - 83.000	Big Thompson Canyon Construction of New Mainline Structures	Larimer	\$ 83,467	21326
ST	034A	77.000 - 81.000	Big Thompson Roadway Reconstruction and Rock Blasting	Larimer	\$ (93,461)	21327
Total					\$ (204,009)	

Spring 2015 Flood Related Monthly Activity

Reg	State Highway	Mileposts	Project Description	County	Total Budget TCCRF	projCode
2	Local Road	NA	Fill scour, Sheet Pile Wall, Rip Rap Pool, Concrete Headwall, Reseed ORR Road	El Paso	\$ (53,094)	21422
Total					\$ (53,094)	

Grand Total TCCRF Activity for Emergency Relief Since Last Reporting

\$ (257,103)



COLORADO

Department of Transportation

Division of Highway Maintenance

4201 East Arkansas Ave, 3rd Floor
Denver, CO 80222

TO: Transportation Commission
FROM: Kyle Lester, Director of Highway Maintenance (DHM)
CC: Michael P. Lewis, CDOT Chief Operating Officer

DATE: April 4, 2017
SUBJECT: FY17 Snow and Ice Contingency Request

Purpose

The Division of Highway Maintenance is requesting \$747,000 from the Transportation Commission Snow and Ice Contingency funds.

Action Requested

Approval of requested additional funds.

Background

As shown in the table below, DHM is projecting a shortfall of \$2.4 million if Maintenance continues to spend snow removal funding at the current rate. DHM is requesting 60% of the projected budget shortfall to keep the Durango and Alamosa maintenance sections and the Durango Traffic section solvent for the winter season.

Details

The projected shortfall in these sections is as follows:

Durango Maintenance - projected shortfall \$1,063,942, requesting \$532,000

Alamosa Maintenance - projected shortfall \$406,623, requesting \$203,000

Durango Traffic - projected shortfall \$24,171, requesting \$12,000

Total Funding Request at 60% of projected shortfall: \$747,000



Section Snow and Ice Report
Tuesday, April 04, 2017

Section	Projected Expenditure	Actual Expenditure	% Winter Remaining	% Budget Remaining	Surplus/Deficit	Section Budget Surplus	Section Budget Deficit	Section TC Recommendation
Greeley Maintenance	\$ 9,535,756.96	\$ 7,695,582.79	16.50%	19.30%	2.80%	\$ 0.00	\$ 0.00	\$ 0.00
Grand Junction Maintenance	\$ 18,042,976.03	\$ 15,543,046.64	16.50%	13.86%	-2.64%	\$ 0.00	\$ (477,160.66)	\$ 0.00
Durango Maintenance	\$ 5,178,446.24	\$ 5,387,945.45	16.50%	-4.05%	-20.55%	\$ 0.00	\$ (1,063,942.84)	\$ 532,000.00
Pueblo Maintenance	\$ 12,083,522.74	\$ 7,525,863.36	16.50%	37.72%	21.22%	\$ 2,563,878.13	\$ 0.00	\$ 0.00
Aurora Maintenance	\$ 13,858,134.18	\$ 8,800,941.72	16.50%	36.49%	19.99%	\$ 2,770,600.32	\$ 0.00	\$ 0.00
Craig Maintenance	\$ 5,402,617.21	\$ 4,948,771.77	16.50%	8.40%	-8.10%	\$ 0.00	\$ (437,586.40)	\$ 0.00
Alamosa Maintenance	\$ 4,812,919.43	\$ 4,425,411.30	16.50%	8.05%	-8.45%	\$ 0.00	\$ (406,623.58)	\$ 203,000.00
Eisenhower Tunnel	\$ 8,133,295.07	\$ 6,498,228.36	16.50%	20.10%	3.60%	\$ 293,073.02	\$ 0.00	\$ 0.00
Aurora Traffic	\$ 300.00	\$ 477.04	16.50%	-59.01%	-75.51%	\$ 0.00	\$ (226.54)	\$ 0.00
Pueblo Traffic	\$ 0.00	\$ 0.00	16.50%	0.00%	0.00%	\$ 0.00	\$ 0.00	\$ 0.00
Grand Junction Traffic	\$ 2,564.28	\$ 1,167.20	16.50%	54.48%	0.00%	\$ 0.00	\$ 0.00	\$ 0.00
Greeley Traffic	\$ 54,801.86	\$ 38,218.70	16.50%	30.26%	13.76%	\$ 7,540.86	\$ 0.00	\$ 0.00
Durango Traffic	\$ 57,966.27	\$ 72,673.78	16.50%	-25.20%	-41.70%	\$ 0.00	\$ (24,171.94)	\$ 12,000.00
Total	\$ 77,163,300.27	\$ 60,938,227.11	16.50%	21.03%	4.53%	\$5,901,866.60	(\$2,409,711.96)	\$ 747,000.00
Percent of Shortfall to be supplemented								40%
Standard Winter: 10/14 - 05/08								





COLORADO

Department of Transportation

MEMORANDUM

DATE: April 6, 2017

TO: Joshua Laipply, Chief Engineer

FROM: David Eller, Region 3 Transportation Director

SUBJECT: Frost heave repair on I-70 on the west side of Vail Pass

Purpose

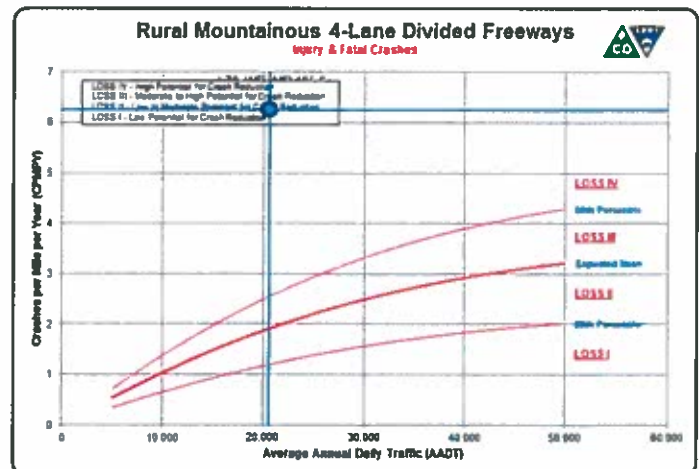
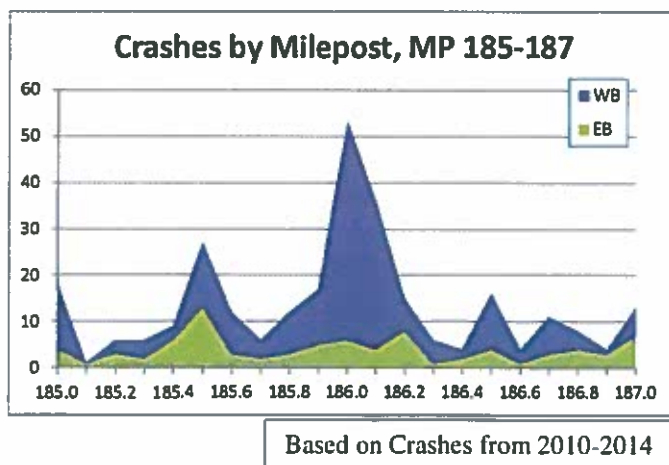
This memorandum is requesting action from the Transportation Commission (TC) to fund the repair of frost heaves on I-70 on the west side of Vail Pass between MM 183-190 using Transportation Contingency funds in the amount of \$1,500,000.

Action

CDOT Region 3 requests that the TC evaluate the use of Transportation Contingency funds for this project. It is our concern that without remediation prior to Winter 2017-2018 the frost heaves will further worsen creating additional safety issues.

Background and Details

In recent years frost heaves on the west side of Vail Pass have grown progressively enlarged in winter creating a safety issue. Thirteen frost heaves were present this winter between I-70 MP 183-190 with the majority on I-70 WB between MP 185.8- MP186. The location of the heaves exacerbate a section of I-70 which already has well documented safety issues with an LOSS of IV: speed differentials, substandard curves, steep grades up to 7%, wildlife conflicts and significant occurrences of inclement weather.



The heaves typically occur during the winter months then pavement settles as the weather warms. The cause of the heaves is a combination of frost susceptible soils, freezing temperatures and groundwater that is not draining fast enough to prevent freezing. There is also very shallow bedrock which prevents downward drainage.



Development of a proposed solution was initiated in 2016. Two geotechnical site investigations have been completed in August 2016 and January 2017 when the frost heaves were at their worst. The proposed remediation at each of the thirteen frost heave locations is to construct trench drains perpendicular to the road (traversing across the travel lanes) to drain the groundwater. The perforated pipe would connect into a drain system that would run parallel to I-70 to daylight or to connect into an existing cross drain under the highway.

The cost and complexity to repair these issues is beyond the scope of typical maintenance at this time. The more severe heaves (elevation change in the roadway surface) is up to 10" at any given time during the middle of winter. Patching, milling or leveling these frost heaves in the winter is not feasible. The project to construct major drainage improvements includes open cutting of I70 drive lanes while under traffic, and working in and around the Fiber Optics Vault along on the inside shoulder. Maintenance has tried to make minor drainage improvements over the years, but the frost heaves continue to return causing major safety issues. There have been documented accidents (specifically with vehicles pulling trailers) that are directly attributed to the major elevation changes at the frost heaves. Maintenance has placed "Roadway Damage" signs in the winter, but with the higher speeds and higher volumes of traffic on I-70 this has been identified as a severe safety hazard.

Our goal is to accelerate project development and construction such that remediation to the frost heaves will be completed prior to Winter 2017-2018. Project development for the repair is being led by the Resident Engineer, Karen Berdoulay and Design Team Manager, John Kronholm, has been assigned as the Project Manager for this work. The Project Manager will develop contract documents for an accelerated Design-Bid-Build delivery with internal CDOT design staff and minor consultant support from a geotechnical consultant who had completed the geotechnical investigation.

The anticipated duration of this construction work is estimated at this time to be approximately three months. The traffic control will maintain at least one travel lane in each direction for the work with concrete barrier protecting the deep excavation. With your support of this request, Region 3 intends to issue a NTP to a successful bidder by July 31, 2017.

I concur:


Joshua Laipply, P.E.
Chief Engineer

Date:

4/12/2017

cc: Laura Zamora – Area Engineer
Liliya Gershman – CDOT Controller
Robert Jaros – State Controller
Maria Sobota– CFO
Eric Ehrbar – OFMB

Martha Miller – R3 East Program Engineer
Rocky Baker – R3 Business Manager
Karen Berdoulay – R3 Eagle Resident Engineer
Tracie Smith - Risk Management
Lori Copeland– Accounting and Finance





FY 2016-2017 Contingency Balance Projection		
March TC Contingency Balance	\$78,017,797	
Savings Region 3 21433 I-70 GWC Perm Rockfall	\$1,449,497	
Savings from Region 4	\$369,428	
SH133 Risk Payment	\$263,692	
State Match & Advance Funding for ER and Permanent Flood Repairs	(\$257,103)	
Reverse Duplicate Entry FY17 Capital Construction Funds	(\$500,000)	
Region 3 Frost Heave Remediation Vail Pass	(\$1,500,000)	
Pending April TC Contingency Balance	\$77,843,311	
<i>Projected Inflow:</i>	High Estimate	Low Estimate
Allocation of Federal ER Funds for FY15 Flood	\$3,500,000	\$0
Repayment from Region 4 for I-25 North Segments 7 & 8 ROW Acquisitions	\$6,493,600	\$0
<i>Projected Outflow:</i>	Low Estimate	High Estimate
State Match for Emergency Relief/Permanent Recovery	(\$4,000,000)	(\$7,000,000)
Right of Way Acquisitions	(\$12,500,000)	(\$20,000,000)
State Match for Spring 2015 Floods	\$0	(\$2,500,000)
FY16-17 Estimated Misc TCCRF Funding Requests	(\$4,000,000)	(\$4,000,000)
Projected FY 2015-2016 YE Contingency Balance	\$67,336,911	\$44,343,311
<i>TCCRF Surplus (Deficit) to Reach \$40M Balance July 1, 2017</i>	<i>\$27,336,911</i>	<i>\$4,343,311</i>