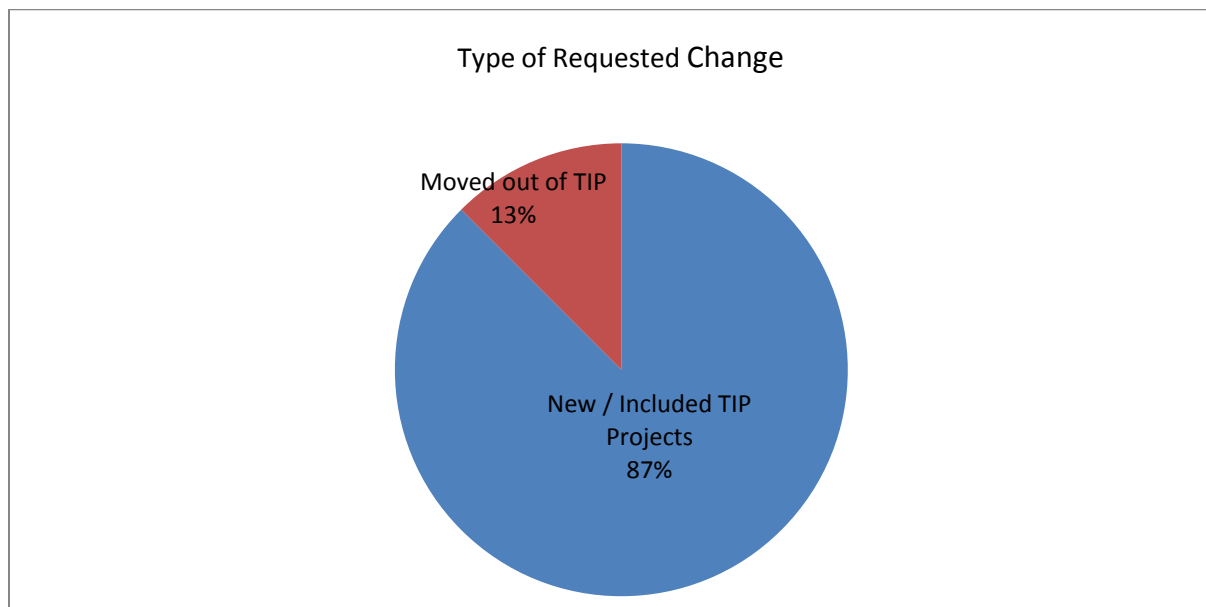




MEMORANDUM

To: CMAP Board
From: CMAP Staff
Date: March 2, 2016
Re: GO TO 2040/TIP Conformity Analysis & TIP Amendment

In accordance with the semi-annual conformity analysis policy, CMAP staff asked programmers to submit changes, additions, or deletions to non-exempt projects for inclusion in the regional air quality analysis of the Transportation Improvement Program (TIP) and GO TO 2040. Of the changes requested, eight projects require air quality conformity analysis. Below is a summary by type of requested changes.



If the TIP amendment is approved, seven new non-exempt projects will be included in the TIP. These types of projects are included in the conformity analysis because funding for phases beyond preliminary engineering has been identified in the TIP. Non-exempt projects with only preliminary engineering funding and exempt tested projects are excluded from conformity analysis.

The new projects are:

- TIP ID [03-16-0010](#): Removal of lane to the State / National Pkwy from Plum Grove Road to IL 58 Golf Road.
- TIP ID [09-16-0013](#): Adding lanes on Wolfs Crossing Road from US 34 Chicago Road to Eola Road. Initial corridor work will focus on Segment One, between Harvey Road and Eola Road.
- TIP ID [09-16-0016](#): An intersection improvement and new road, as Anderson Road is extended from Keslinger Road to Freedom Road.
- TIP ID [09-99-0101](#): Dauberman Road extension from north of US 30 to Granart Road. The sponsor revised the expected opening from 2017 to 2022.
- TIP ID [10-09-0024](#): IL 131 Green Bay Road from Russell Road to Sunset Avenue. Besides the inclusion of anticipated funds, the sponsor has moved its estimated completion to 2021 from 2030.
- TIP ID [12-16-0004](#): A road extension of Enterprise Drive toward the west, then reconnection to Division Street.
- TIP ID [12-13-0004](#): Laraway Road corridor project from US 52 to IL 43 Harlem Avenue.

One non-exempt project moved out of the current years of the TIP and is not anticipated to use federal funds within the next four years:

- TIP ID [11-00-0016](#): Algonquin Road from Brier Hill Road to IL 47.

The completion year indicates when a project is anticipated to be in service to users. The conformity analysis is conducted for selected analysis years between now and 2040. The analysis years are currently 2020, 2025, 2030 and 2040. If a change in completion year results in moving a project across an analysis year, the project must be included in a new conformity analysis. Sponsors indicated that several projects have updated completion years.

At this time no projects are requesting a scope change. The scope of a project is determined by the [work types](#) associated with the project.

- Non-exempt work types may affect air quality and must be included in the conformity analysis. Examples of non-exempt work types are adding lanes to a road, interchange expansion, signal timing and the major expansion of bus route service.
- Exempt tested work types do not require an air quality conformity analysis, but the region has chosen to include the impacts of these types of projects in the travel demand model. Exempt tested projects include new commuter parking lots, rolling stock replacement, and road reconstruction with lane widening to standard (e.g., 10 feet to 12 feet).
- Exempt work types do not require an air quality conformity analysis. Examples of exempt work types are intersection improvements and rail station modernization.

TIP projects are also viewable in a [map format](#).

Each TIP ID includes a hyperlink to the [TIP database](#) for current project information. Changes are also seen in the [Conformity Amendments](#) report that is coded in the 2020, 2025, 2030, and

2040 highway and transit networks. The regional travel demand model was run using the updated networks. The resultant vehicle miles traveled (VMT) by vehicle class, speed, time of day, and facility type were entered into US Environmental Protection Agency’s MOVES model. The model generated on-road emission estimates for each precursor or direct pollutant in each analysis year.

For ozone precursors volatile organic compounds (VOC) and nitrogen oxides (NOx), the resulting emissions inventories estimates fell below the applicable budgets for the maintenance State Implementation Plan (SIP).

Both the annual direct fine particulate (PM_{2.5}) and NOx emissions inventories are below the applicable budgets from the attainment SIP.

Direct PM_{2.5} and NOx Emissions in Tons per Year for PM_{2.5} Conformity

Year	Fine Particulate Matter		Nitrogen Oxides	
	Northeastern Illinois	SIP Budget	Northeastern Illinois	SIP Budget
2020	2,079.02	5,100.00	39,594.26	127,951.00
2025	1,803.54	2,377.00	31,202.77	44,224.00
2030	1,729.54	2,377.00	28,997.49	44,224.00
2040	1,803.56	2,377.00	29,687.32	44,224.00

conformity is demonstrated by comparison of analysis year emissions to the SIP budgets

VOC and NOx Emissions in Tons per Summer Day for Ozone Conformity

Year	Volatile Organic Compounds		Nitrogen Oxides	
	Northeastern Illinois	SIP Budget	Northeastern Illinois	SIP Budget
2020	60.77	117.23	107.88	373.52
2025	55.66	60.13	84.47	150.27
2030	54.13	60.13	78.23	150.27
2040	57.11	60.13	79.65	150.27

conformity is demonstrated by comparison of analysis year emissions to the SIP budgets

Notes:

Off-model benefits are not included in the total emissions estimates

Results updated as of January 21, 2016

ACTION REQUESTED: Approval of the GO TO 2040/TIP Conformity Analysis and TIP Amendment

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Chicago Metropolitan Agency for Planning

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Conformity Amendments

Project:	Action	Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change	
03-16-0010 Northwest Council of Mayors	New Project		\$4645			
State/National Pkwy from Plum Grove Rd (COOK/Schaumburg) to IL 58 Golf Rd (COOK/Schaumburg)						
Completion Year: 2018						
Project Work Types After Revision: Highway/Road - Remove Lanes HIGHWAY/ROAD - RECONST WITH CHANGE IN USE OR WIDTH OF LANE New Bicycle Facility Improve Pedestrian Facility						
Financial Data After Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	STP-L	ENGINEERING-II	16	444	222	
	STP-L	ROW ACQUISITION	16	846	423	
	STP-L	CONSTRUCTION	18	6265	4000	
Project:	Action	Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change	
09-16-0013 Kane/Kendall Council of Mayors	New Project		\$639			
FAU 1577 Wolfs Crossing Road from FAU 311 US 34 Chicago Road (KENDALL/Oswego) to Eola Road (WILL/Aurora)						
Completion Year: 2021						
Project Work Types After Revision: HIGHWAY/ROAD - ADD LANES New Bicycle Facility New Pedestrian Facility HIGHWAY/ROAD - INTERSECTION IMPROVEMENT SAFETY - LIGHTING						
Financial Data After Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	GEN-OP	ENGINEERING-I	16	1635		Entire Corridor (Segments 1 - 5)
	STP-L	ENGINEERING-II	18	954	477	Segment 1 (Harvey Road to Eola Road)
	STP-L	ROW ACQUISITION	19	324	162	Segment 1 (Harvey Road to Eola Road)
	STP-L	CONSTRUCTION	MYB	12874	1861	Includes CE, Segment 1 (Harvey Road to Eola Road)
Project:	Action	Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change	
09-16-0016 Kane/Kendall Council of Mayors	New Project		\$0			
Anderson Road from CH 41 FAU 110 Keslinger Road (KANE/Elburn) to Freedom Road (KANE/Elburn)						
Completion Year: 2020						
Project Work Types After Revision: HIGHWAY/ROAD - INTERSECTION IMPROVEMENT HIGHWAY/ROAD - NEW ROAD New Pedestrian Facility						
Financial Data After Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	GEN-OP	ENGINEERING-II	17	88		
	STP-L	CONSTRUCTION	MYB	1228	921	includes CE

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CMAP, the Chicago Metropolitan Agency for Planning -- 233 South Wacker Drive, Suite 800, Chicago, IL 60606 312-454-0400 (voice), 312-454-0411 (fax)

Project:	Action	Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change
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09-99-0101 Kane County Division of Transportation Not Exempt Project Moved into TIP

\$0 \$0 \$0

Before Revision: DAUBERMAN RD EXTENSION FROM US 30 (KANE) TO GRANART RD (KANE)

After Revision: CH 62 DAUBERMAN RD EXTENSION from CH 62 Dauberman Rd 1700' n of US 30 (KANE/Big Rock) to TH 3898 GRANART RD (KANE/Sugar Grove)

Completion Year Before Revision: 2017

Completion Year After Revision: 2022

Project Work Types Before Revision: BRIDGE/STRUCTURE - NEW
HIGHWAY/ROAD - NEW ROAD

Project Work Types After Revision: BRIDGE/STRUCTURE - NEW
HIGHWAY/ROAD - NEW ROAD

Financial Data Before Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	GEN-OP	ROW ACQUISITION	MYB	300	0	
	GEN-OP	ENGINEERING	MYB	700	0	
	GEN-OP	CONSTRUCTION	MYB	5000	0	
Financial Data After Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	GEN-OP	ROW ACQUISITION	17	1000	0	
	GEN-OP	ENGINEERING-I	16	1000	0	
	GEN-OP	CONSTRUCTION	MYB	5000	0	
	ICC	CONSTRUCTION	MYB	7200		
	GEN-OP	ENGINEERING-II	17	1200		

Project:	Action	Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change
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10-09-0024 IDOT District 1 Division of Highways Not Exempt Project Moved into TIP
IL 131 GREEN BAY ROAD FROM RUSSELL ROAD (LAKE) TO SUNSET AVENUE (LAKE)

\$0 \$45 \$45

Completion Year Before Revision: 2030

Completion Year After Revision: 2021

Project Work Types Before Revision: HIGHWAY/ROAD - ADD LANES
HIGHWAY/ROAD - WIDEN LANES AND RESURFACE
HIGHWAY/ROAD - RESURFACE (WITH NO LANE WIDENING)
SIGNALS - NEW SIGNALS FOR MULTIPLE INTERSECTIONS
HIGHWAY/ROAD - CONTINUOUS BI-DIRECTIONAL TURN LANES
MISCELLANEOUS - PROJECT TYPES NOT LISTED

Project Work Types After Revision: HIGHWAY/ROAD - ADD LANES
HIGHWAY/ROAD - WIDEN LANES AND RESURFACE
HIGHWAY/ROAD - RESURFACE (WITH NO LANE WIDENING)
SIGNALS - NEW SIGNALS FOR MULTIPLE INTERSECTIONS
HIGHWAY/ROAD - CONTINUOUS BI-DIRECTIONAL TURN LANES
MISCELLANEOUS - PROJECT TYPES NOT LISTED

Financial Data Before Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	A ILL	ENGINEERING-I	09	1380	0	1-75131-0205 (ESTABLISHED)
	A ILL	ENGINEERING-I	09	1680	0	1-75131-0201(ESTABLISHED)
	ILL	ENGINEERING-II	MYB	9235	0	1-75131-0202
	ILL	ROW ACQUISITION	MYB	8873	0	1-75131-0204
	NHPP	CONSTRUCTION	MYB	92350	73880	1-75131-0100
	ILL	ENGINEERING	MYB	12006	0	1-75131-0203
	A ILL	ENGINEERING-I	11	1680	0	1-75131-0212 (ESTABLISHED)
	A ILL	ENGINEERING-I	13	1565	0	1-75131-0213 (ESTABLISHED)
	HSIP	CONSTRUCTION	MYB	3700	1620	1-75131-1000
	ILL	ROW ACQUISITION	MYB	600	0	1-75131-1400
	ILL	ENGINEERING-I	19	1300	0	1-75131-0106 (PE ROW)
Financial Data After Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	ILL	ENGINEERING-I	09	1380	0	1-75131-0205 (ESTABLISHED)
	ILL	ENGINEERING-I	09	1680	0	1-75131-0201(ESTABLISHED)
	ILL	ENGINEERING-II	MYB	9235	0	1-75131-0202
	ILL	ROW ACQUISITION	MYB	8873	0	1-75131-0204
	NHPP	CONSTRUCTION	MYB	116000	92800	1-75131-0100
	ILL	ENGINEERING	MYB	12006	0	1-75131-0203
	ILL	ENGINEERING-I	11	1680	0	1-75131-0212 (ESTABLISHED)
	ILL	ENGINEERING-I	13	1565	0	1-75131-0213 (ESTABLISHED)
	HSIP	CONSTRUCTION	MYB	2505	1362	1-75131-1000
	HSIP	ROW ACQUISITION	16	250	45	1-75131-1400
	ILL	ENGINEERING-I	19	1300	0	1-75131-0106 (PE ROW)
	ILL	ROW ACQUISITION	MYB	9300	0	1-75131-0400

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Project:	Action	Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change
11-00-0016	McHenry County Division of Transportation Not Exempt Project Moved out of Tip ALGONQUIN RD from BRIER HILL RD (MCHENRY/Grafton Township) to IL 47 (MCHENRY/Huntley)	\$0	\$0	\$ 0	
Completion Year Before Revision: 2020					
Completion Year After Revision: 2020					
Project Work Types Before Revision: HIGHWAY/ROAD - EXTEND ROAD					
Project Work Types After Revision: HIGHWAY/ROAD - EXTEND ROAD					
Financial Data Before Revision					
Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
MFT-LOC	CONSTRUCTION	MYB	14000	0	
A MFT-LOC	ENGINEERING-I	15	400	0	
MFT-LOC	ENGINEERING-II	MYB	400	0	
Financial Data After Revision					
Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
MFT-LOC	CONSTRUCTION	MYB	14000	0	
MFT-LOC	ENGINEERING-II	MYB	400	0	

Project:	Action	Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change
12-13-0004	Will County Division of Transportation Not Exempt Project Moved into Tip CH 74 Laraway Road FROM US 52 (WILL) TO IL 43 Harlem Ave (WILL)	\$0	\$2750	\$ 2750	
Completion Year Before Revision: 2030					
Completion Year After Revision: 2030					
Project Work Types Before Revision: HIGHWAY/ROAD - ADD LANES HIGHWAY/ROAD - INTERSECTION RECONSTRUCTION SIGNALS - MODERNIZATION SIGNALS - INTERCONNECTS AND TIMING					
Project Work Types After Revision: HIGHWAY/ROAD - ADD LANES HIGHWAY/ROAD - INTERSECTION RECONSTRUCTION SIGNALS - MODERNIZATION SIGNALS - INTERCONNECTS AND TIMING					
Financial Data Before Revision					
Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
A MFT-LOC	ENGINEERING-I	13	1852	0	US Route 52 to CH 4 (Cedar Road)
Financial Data After Revision					
Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
MFT-ALL	ENGINEERING-I	13	1852	0	US Route 52 to Cedar Road (CH 4)
STP-C	ENGINEERING-II	16	750	250	Nelson Road to Cedar Road (CH 4)
STP-C	CONSTRUCTION	18	7500	1000	Nelson Road to Cedar Road (CH 4)
MFT-ALL	ENGINEERING-I	15	2437		Cedar Road (CH 4) to US Route 45 (LaGrange Rd)
STP-C	ENGINEERING-II	17	750	250	Gougar Road (CH 52) to Nelson Road
STP-C	CONSTRUCTION	19	7500	1000	Gougar Road (CH 52) to Nelson Road
MFT-ALL	ENGINEERING	18	750	0	Nelson Road to Cedar Road (CH 4)
MFT-ALL	ENGINEERING-I	16	2000	0	US Router 45 (LaGrange Road) to Harlem Ave
STP-C	ENGINEERING-II	19	750	250	US Route 52 to Gougar Road (CH 52)

Project:	Action	Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change
12-16-0004	Will County Council of Mayors New Project Enterprise Drive Extension from Enterprise Drive (WILL/Crest Hill) to Division Street (WILL/Crest Hill)		\$0		
Completion Year: 2017					
Project Work Types After Revision: HIGHWAY/ROAD - EXTEND ROAD					
Financial Data After Revision					
Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
ILL	ENGINEERING-II	16	134		EDP Grant Funds
ILL	CONSTRUCTION	16	2107		EDP Grant Funds; Includes CE

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