# Agenda Item No. 8.0



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## **MEMORANDUM**

**To:** MPO Policy Committee

From: CMAP Staff

**Date:** March 3, 2011

**Re:** Semi-annual TIP/GO TO 2040 Conformity Analysis and TIP Amendment

There is one item regarding transportation for the consent agenda:

### Semi-annual GO TO 2040/TIP Conformity Analysis & TIP Amendments

The public comment period for the conformity analysis on the GO TO 2040/Transportation Improvement Program (TIP) and TIP Amendments has closed. No comments were received. The following describes the conformity analysis and the TIP Amendments.

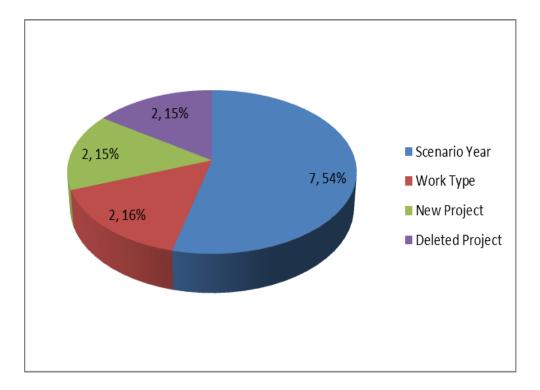
In accordance with the biannual conformity analysis policy, CMAP staff asked programmers to submit changes to projects included in the regional air quality analysis of the Transportation Improvement Program (TIP) and GO TO 2040. We received responses from all programmers and specific TIP changes are listed in the attached report. Of the numerous changes requested only thirteen projects required air quality conformity action. TIP projects are comprised of various work types.

- An exempt work type does not require an air quality conformity analysis.
   Examples of exempt work types are road resurfacing and bus rehabilitation.
- Exempt tested work types do not require an air quality conformity analysis, but the region has chosen to include the impacts of the work types in the travel demand model. Exempt tested projects include lane widening and new commuter parking lots.
- Non-exempt work types may affect air quality and must be tested for conformity. Examples of non-exempt work types are adding lanes to a road, signal timing, and extending a rail line.

Two projects required work type changes including adding, changing, or removing work types. Other changes include two new projects and two deleted projects. There were no projects with limit changes. Limits are the cross-streets, mileposts or other boundaries which define the extent of a project.

Fifty-five project changes involved a revision to a project's completion year. Completion years indicate when a project is anticipated to be in service to users and determines what analysis years the project will be considered in. The current conformity analysis includes four analysis years, 2016, 2020, 2030 & 2040. When a project's completion year change puts it into a different analysis year, a new conformity analysis is required. Seven of the fifty-five revisions submitted put a project into a different analysis year.

The following chart shows a break-down of the type of project changes requested.



The 2016, 2020, 2030 and 2040 highway networks were coded to include the project changes listed in the Non-Exempt Projects Requiring Conformity Determination report. The regional travel demand model was run using the updated networks. The resultant vehicle miles traveled by speed and facility type were multiplied by corresponding emission rates created with USEPA's MOBILE6 model. The emission estimates were then added together to estimate total emissions for each precursor or direct pollutant in each scenario year. Reductions from the National Energy Policy Act Credit and Clean Fuel Fleet Program have not been claimed. As shown in the table, the emission results from the conformity analysis for the analysis years show that the VOC and NOx emissions are lower than the applicable SIP budgets, and conformity for the 8-hour ozone standard is demonstrated.

Since there are no SIP budgets for annual direct PM<sub>2.5</sub> and NOx emissions, these estimates were combined with estimates from northwest Indiana, which is also part of the nonattainment area.

The combined direct  $PM_{2.5}$  and NOx emissions remain below emissions estimates for 2002, the baseline year, so conformity for the annual  $PM_{2.5}$  standard is demonstrated.

	Fine	e Particulate Mat	ter		Nitrogen Oxide	
	Northeastern	Northwest	Nonattainment	Northeastern	Northwest	Nonattainment
Year	Illinois	Indiana	area Total	Illinois	Indiana	area Total
2002	3,070.78	562.64	3,633.42	167,630.81	30,397.97	198,028.7
2016	1,066.58	158.90	1,225.48	40,689.60	8,442.66	49,132.2
2020	959.23	114.32	1,073.55	27,592.52	3,004.68	30,597.2
2030	946.89	116.46	1,063.35	19,066.09	2,065.23	21,131.3
2040	993.23	129.31	1,122.54	19,354.70	2,195.38	21,550.0
conformity	r is demonstrated b	y comparison of ar	alysis year emissi	ons to the baseline	year (2002)	
	c Emissions in					
	C Emissions in	Tons per Sum	mer Day for Oz Nitrogen	zone Conformi		
and NO	Volatile Organi	Tons per Sum	mer Day for Oz Nitrogen Northeastern	Cone Conformi Oxides		
C and NO	Volatile Organi Northeastern Illinois	Tons per Sum c Compounds SIP Budget	Mer Day for Oz Nitrogen Northeastern Illinois	Oxides  SIP Budget		
Year 2016	Volatile Organi Northeastern Illinois	Tons per Sum c Compounds SIP Budget 133.78	Nitrogen Northeastern Illinois 109.86	Oxides SIP Budget 284.65		
Year 2016 2020	Volatile Organi Northeastern Illinois 63.05 53.99	Compounds SIP Budget 133.78 73.68	Nitrogen Northeastern Illinois 109.86 73.82	Oxides SIP Budget 284.65 88.17		
Year 2016 2020 2030	Volatile Organi Northeastern Illinois 63.05 53.99 53.90	Compounds SIP Budget 133.78 73.68 73.68	Nitrogen Northeastern Illinois 109.86 73.82 49.51	Oxides SIP Budget 284.65 88.17 88.17		
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Year 2016 2020 2030 2040	Volatile Organi Northeastern Illinois 63.05 53.99 53.90 58.35	Tons per Sum c Compounds SIP Budget 133.78 73.68 73.68 73.68	Nitrogen Northeastern Illinois 109.86 73.82 49.51 49.90	Oxides  SIP Budget 284.65 88.17 88.17 88.17	ty	

**ACTION REQUESTED:** Approval



		Conformi	ty Amen	<u>dmen</u>	<u>t </u>					
Project:			F	re-Revis ederal Fi 100)		Post-Revision Federal Fund (000)			Percentage Cha	
1-03-0017 Chicago Department of Transpo		\$	1000		\$0	\$ -1000		-100%		
AYLOR ST FROM CHICAGO RIVER (COOK)										
ompletion Year Before Revision: 2015 ompletion Year After Revision: 2020										
oject Work Types Before Revision:										
oject Work Types After Revision:	BRIDGE/STRUCTU	IRE - NEW								
nancial Data Before	Fund Source	Project Phas	ject Phase		Т	otal Cost	Federa	Cost	Segmen	
	STP-L	ENGINEERING	S-11	12	1	250	1000			
nancial Data After Revision	Fund Source	Project Phas		FFY		otal Cost	Federal	Cost	Segment	
	STP-L	ENGINEERING	G-11	15		250	1000		-	
		Pre	-Revision	Pos	t-Revi	sion Ch	ange in			
oject:			eral Funds		eral F	unds Fe	deral Funds 00)	F	ercentage Change	
-09-0073 Northwest Council of Mayors				\$35	00					
19 Irving Park Road FROM Schaumburg Roa	ed (COOK/Streamw	ood) TO Bartlett Road (	COOK/Stream	wood)						
impletion Year: 2014										
oject Work Types After Revision:	HIGHWAY/ROAD									
	SAFETY - LIGHTIN	- CURB AND GUTTER IG								
		RESURFACE ( WITH N	Ó LANE WIDE	NING)						
nancial Data After Revision	Fund Source	Project Phas		FFY		otal Cost	Federal	Cost	Segment	
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		-Revision	Post-Revis			Change in				
oject:	Federal Funds Federal (000) (000)				Funds Federal Fund (Q00)			nds Percentage Change		
-99-0004 CMAP	,	•	\$2046			. ,				
TH AVE FROM IL 64 NORTH AVE (COOK) TO	O US 20 LAKE ST (C	OOK)								
empletion Year: 2012										
oject Work Types After Revision:		CORRIDOR IMPROVE								
nancial Data After Revision	Fund Source	Project Phase	FFY	Total	Cost	Federal Co		nent		
	CMAQ	ENGINEERING-II	14	700		560	INTE	ND TO	APPLY FOR CMAQ	
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oject:			Federal Fun (000)		reaer. (000)	al Funds	Federal Fun (000)	ds	Percentage Change	
-99-0020 Cook County Highway Departm	ent		\$0		<b>\$</b> 0		\$0			
efore Revision: HARLEM AVENUE FROM S		ICH TOWNSHIP) TO SA	,			N\$IP)	•			
fter Revision: CH W3S Harlem Avenue F	ROM CH C11 Sauk 1	rail (COOK) TO CH C12	Steger Road	(COOK)						
empletion Year Before Revision: 2014 empletion Year After Revision: 2020										
oject Work Types Before Revision;		- add lanes - reconst with Chan - vertical/Horizont								
oject Work Types After Revision:	HIGHWAY/ROAD			(~-·~- OE		/				
•	HIGHWAY/ROAD	RECONST WITH CHAN VERTICAL/HORIZONT	IGE IN USE OF	WIDTH	OF LAN	NE CE)				
nancial Data Before	Fund Source	Project Phas		FFY		otal Cost	Federal	Cost	Segment	
vision	MFT-ALL	CONSTRUCTO		11		100	0	7001	203.11611	
nancial Data After Revision	Fund Source	Project Phas		FFY		otal Cost	v Federal	Cost	Segment	
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						444	v			

This public notice of the revisions being made by CMAP's Transportation Improvement Program satisfies the Program of Projects requirement of Title 49, U.S. Code Section 5307 (c) (1) through (7)

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

#### Conformity Amendment Report

Project:			Pre-Re Federa (000)	l Funds	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change
08-06-0043 DuPage Council of Mayors			\$0		\$0	\$0	
BOOK RD FROM RICKERT DR (DUPAGE) TO Completion Year Before Revision: 2011	75TH ST (DUPAGE)						
Completion Year After Revision: 2020							
Project Work Types Before Revision: Project Work Types After Revision:	HIGHWAY/ROAD						
Financial Data Before							
Revision	Fund Source	Project Phase		FFY	Total Cost	Federal Cost	Segment
	GEN-OP	ENGINEERING		11	72	0	
Financial Data After Revision	Fund Source	Project Phase		FFY	Total Cost	Federal Cost	Segment
	GEN-OP	ENGINEERING		15	72	0	
Project:		Pre-Revis Federal F		Post-Re Federal	Funds Feder	al Funds Pe	ercentage Change
08-07-0010 DuPage Council of Mayors		(000)		(000)	(000)		
ARDMORE AVENUE FROM 16TH STREET (DU	PAGE) TO IL 56 BUT	TERFIELD ROAD (DUPAGE	)	\$945			
Completion Year: 2011 Project Work Types After Revision:	HIGHWAY/ROAD						
Financial Data After Revision	SIGNALS - ADD SI Fund Source	GNALS AT SINGLE INTERS	FFY	Total Cost	Endoes Cost	Sacmant	
	STP-L	Project Phase CONSTRUCTION	12	7254	Federal Cost 945	Segment FY10 NEEDS (	CONSULTATION
Project:	1	Pre-Revision Federal Funds		evision I Funds	Change in Federal Fund	ls Percen	tage Change
00 00 0013		(000)	(000)		(000)		
09-09-0013 CMAP		1149	\$1149		\$0	0%	
Before Revision: IL 64 IL ROUTE 64 FROM After Revision: IL 64 IL ROUTE 64 FROM				. daa Oodlaasa	- 04 to 5 04		
Completion Year After Revision: 2012							
Project Work Types After Revision:	SIGNALS - INTERC	CONNECTS AND TIMING CONNECTS AND TIMING IGNALS FOR MULTIPLE IN	TERSECT	IONS			
Project Work Types After Revision: Financial Data Before	SIGNALS - INTERC	CONNECTS AND TIMING	TERSECT	IONS PFY	Total Cost	Federal Cost	Segment
Project Work Types After Revision: Financial Data Before	SIGNALS - INTERE SIGNALS - NEW S	CONNECTS AND TIMING IGNALS FOR MULTIPLE IN	TERSECT		Total Cost	Federal Cost	Segment
Project Work Types After Revision: Financial Data Before	SIGNALS - INTERC SIGNALS - NEW S Fund Source	CONNECTS AND TIMING IGNALS FOR MULTIPLE IN Project Phase		FFY			Segment
Project Work Types After Revision: Financial Data Before Revision	SIGNALS - INTERIC SIGNALS - NEW S Fund Source CMAQ CMAQ Fund Source	CONNECTS AND TIMING IGNALS FOR MULTIPLE IN Project Phase CONSTRUCTION ENGINEERING-II Project Phase		FFY 12 10 FFY	1436 300 Total Cost	1149	Segment Segment
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Project Work Types After Revision: Financial Data Before Revision	SIGNALS - INTERIC SIGNALS - NEW S Fund Source CMAQ CMAQ Fund Source	CONNECTS AND TIMING IGNALS FOR MULTIPLE IN Project Phase CONSTRUCTION ENGINEERING-II Project Phase		FFY 12 10 FFY	1436 300 Total Cost	1149 240 Federal Cost	Segment
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Project Work Types After Revision: Financial Data Before Revision  Financial Data After Revision  Project: 10-08-0027 Lake County Department of To	SIGNALS - INTERC SIGNALS - NEW S Fund Source CMAQ CMAQ Fund Source CMAQ CMAQ	CONNECTS AND TIMING IGNALS FOR MULTIPLE IN Project Phase CONSTRUCTION ENGINEERING-II Project Phase ENGINEERING-II CONSTRUCTION	Pre Fed (00 \$0	FFY  12  10  FFY  10  12  Revision eral Funds 0)	1436 300 Total Cost 400 1436 Post-Revision Federal Funds (000) \$0	1149 240 Federal Cost 240 1149 Change in Federal Funds	Segment Awarded
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Project Work Types After Revision:  Financial Data Before Revision  Financial Data After Revision  Project:  10-08-0027	SIGNALS - INTERC SIGNALS - NEW S Fund Source CMAQ CMAQ Fund Source CMAQ CMAQ CMAQ CMAQ CMAQ CMAQ CMAQ CMAQ	CONNECTS AND TIMING GNALS FOR MULTIPLE IN  Project Phase  CONSTRUCTION ENGINEERING-II Project Phase ENGINEERING-II CONSTRUCTION  Lake Beach) TO IL 83 IL I  RE - NEW VERTICAL/HORIZONTAL. INTERSECTION IMPROVE Project Phase ENGINEERING-II ROW ACQUISITIC CONSTRUCTION Project Phase	Pre Fed (00 \$0 83 (LAKE) ALGNMEN MENT ALGNMENT MENT	FFY  12  10  FFY  10  12  Revision eral Funds  0)  Round Lake B  IT (E.G. CLEAF  FFY  10  11  13  FFY	1436 300 Total Cost 400 1436  Post-Revision Federal Funds (000) \$0 each)  RANCE)  Total Cost 3000 3500 5000 Total Cost	1149 240 Federal Cost 240 1149  Change in Federal Funds (000) \$ 0  Federal Cost 0 0 0 Federal Cost	Segment Awarded  Percentage Change

Gray Financial Data Records are for informational purposes only and not included in the TIP.

This public notice of the revisions being made by CMAP's Transportation Improvement Program satisfies the Program of Projects requirement of Title 49, U.S. Code Section 5307 (c) (1) through (7)

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

#### Conformity Amendment Report

Project:	<u>u</u>		Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change			
10-08-0029 Lake County Department of Ti Washington Street FROM Sheridan Road (LAM		hing Road (LAKE/Waukegar	\$0 n)	\$0	\$ 0				
Completion Year Before Revision: 2030 Completion Year After Revision: 2020		, , ,	•						
Project Work Types Before Revision:	HIGHWAY/ROAD - E								
Project Work Types After Revision:	BRIDGE/STRUCTURI HIGHWAY/ROAD - E BRIDGE/STRUCTURI	XTEND ROAD							
Financial Data Before Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment			
	CTEF	ENGINEERING-II	13	800	0				
	CTEF	CONSTRUCTION	MYB	10000	ō				
Financial Data After Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment			
	CTEF	ENGINEERING-II	13	800	0				
	CTEF	CONSTRUCTION	MYB	10000	0				
Project:			Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change			
10-08-0031 Lake County Department of Tr	ansportation		\$0	\$0	\$ 0				
CH A22 Washington Street FROM CH V60 Hair	nesville Road (LAKE/Ha	ninesville) TO Lake Street (L	AKE/Grayslake)						
<b>Completion Year Before Revision:</b> 2030 <b>Completion Year After Revision:</b> 2020									
Project Work Types Before Revision:	BRIDGE/STRUCTURI HIGHWAY/ROAD - A								
Project Work Types After Revision:	BRIDGE/STRUCTURE - NEW HIGHWAY/ROAD - ADD LANES								
Financial Data Before Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment			
	CTEF	ENGINEERING-I	10	1895	0				
	CTEF	ENGINEERING-II	11	2000	0				
	CTEF	ROW ACQUISITION	11	1500	0				
	CTEF	CONSTRUCTION	MYB	26305	0				
Financial Data After Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment			
	CTEF	ENGINEERING-I	10	1895	0	_			
	CTEF	ENGINEERING-II	11	2000	0				
	CTEF	ROW ACQUISITION	11	1500	0				
	CTEF	CONSTRUCTION	MYB	26305	0				
Project:			Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change			
10-08-0037 Lake County Department of Tri	•		\$0	\$0	\$ 0				
IL 120 FROM KNIGHT AVENUE (LAKE) TO IL Completion Year Before Revision: 2015	131 GREEN BAY ROAD	(LAKE) CONSTRUCT NEW I	NTERCHANGE						
Completion Year After Revision: 2020 Project Work Types Before Revision:		ECONST WITH CHANGE IN		LANE					
Profest Mark Tunes After Decides		ONTINUOUS BI-DIRECTION							
Project Work Types After Revision:	HIGHWAY/ROAD - RECONST WITH CHANGE IN USE OR WIDTH OF LANE HIGHWAY/ROAD - CONTINUOUS BI-DIRECTIONAL TURN LANES INTERCHANGE - NEW								
Financial Data Before Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment			
	CTEF	ENGINEERING-I	11	119	0	-			
	CTEF	ENGINEERING-II	12	104	0				
	CTEF	ROW ACQUISITION	12	112	0				
	CTEF	CONSTRUCTION	MYB	1491	0				
	CTEF	CONSTRUCTION	MYB	149	0	<b>E</b> 3			
Financial Data After Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment			
	CTEF	ENGINEERING-I	11	119	0	wagmene			
	CTEF	ENGINEERING-II	12	104	0				
	CTEF	ROW ACQUISITION	12	112	0				
		HOTT FACOUSTION	14		•				
	CTEF	CONSTRUCTION	MVD	1491	n.				
	CTEF CTEF	CONSTRUCTION CONSTRUCTION	MYB MYB	1491 149	0	B			

Gray Financial Data Records are for informational purposes only and not included in the TTP.

This public notice of the revisions being made by CMAP's Transportation Improvement Program satisfies the Program of Projects requirement of Title 49, U.S. Code Section 5307 (c) (1) through (7)

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

#### Conformity Amendment Report

Pre-Revision Federal Funds (000) Post-Revision Federal Funds Change in Federal Funds Project: Percentage Change (000) (000) 11-03-0016 McHenry County Council of Mayors \$1756 \$1756 \$0 0% RICHMOND WEST BYPASS FROM US 12 (MCHENRY) IL 31 (MCHENRY) Completion Year Before Revision: 2014 Completion Year After Revision: 2030 Project Work Types Before Revision: HIGHWAY/ROAD - NEW ROAD Project Work Types After Revision: HIGHWAY/ROAD - NEW ROAD Financial Data Before Revision Fund Source **Project Phase** FFY **Total Cost** Federal Cost Segment ОТН CONSTRUCTION MYB 0 HPP ENGINEERING-I 14 2367 1756 Financial Data After Revision **Fund Source** Project Phase FFY **Total Cost** Federal Cost Segment отн CONSTRUCTION MYB o o ENGINEERING-I HPP 14 2367 1756 Pre-Revision Federal Funds (000) Post-Revision Federal Funds Change in Federal Funds Project: Percentage Change (000) (000) 18-11-0046 Metra \$0 Peterson and Ridge Avenues AT (COOK/Chicago) Peterson and Ridge Avenues in Chicago on Union Pacific North Line Completion Year: 2013 Project Work Types After Revision: STATION - NEW Financial Data After Revision Fund Source **Project Phase** FFY **Total Cost Federal Cost** Segment

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IMPLEMENTATION

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through (7)

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