



tpo

KNOXVILLE REGIONAL

August 3, 2021

Tennessee Department of Transportation
James K. Polk Building, Suite 1800
505 Deaderick Street
Nashville, TN 37243-0349

SUBJECT: Administrative Modification to project 20-2017-062 (Lenoir City CMAQ ITS Ph. II)

Dear TDOT,

The Knoxville Regional TPO requests concurrence by TDOT to administratively modify the FY 2020-2023 TIP concerning the following project:

Administrative Modification 20-2017-062 (Lenoir City CMAQ ITS Ph. II) - Modify project to clarify the project description, revise the schedule and phase cost estimates. The project description is revised to reflect DSCRC "or similar communication medium" and to denote "non-intrusive" detection devices. The intent is to be less technology prescriptive. Additional NEPA costs totaling \$66,200 (100% federal CMAQ) are programmed in FY 2021. The PE-Design phase is reduced to \$71,600 (100% federal CMAQ) and programmed in FY 2022. CN is reduced to \$2,167,600 (100% federal CMAQ) and programmed in FY 2023. This modification increases NEPA by \$66,200, reduces PE-D by \$23,400 and shifts \$42,800 from construction to project development. No funds are added to the TIP with this modification and the total project cost remains \$2,310,400.

This administrative modification has been incorporated into our FY 2020-2023 TIP. The project pages, relevant financial tables and TDOT concurrence are included with this letter. If you have any questions, please contact me at (865) 215-3825.

Sincerely,

Craig Luebke, AICP
Senior Transportation Planner

Knoxville Regional Transportation Planning Organization

TRANSPORTATION IMPROVEMENT PROGRAM FY 2020-2023

ORIGINAL

TIP No.	20-2017-062	Revision No.	1	Mobility Plan No.	Consistent with Goal 1	
TDOT PIN	128840.00	STIP No.				
Project Name	Lenoir City CMAQ ITS Phase II					
Lead Agency	City of Lenoir City					
Total Project Cost	\$2,310,400					

Project Description	The proposed project is a Phase II to the Lenoir City CMAQ ITS. It includes additional features not included in Phase I to enhance traffic flow and to reduce emissions. DSRC with Advanced Traffic Controllers with cellular modems / batteries will be installed along with radar detection devices.				
Termini/Intersection	"US-321 / SR-73 /SR-2 US-321 at US-70 US-321 at I-40 Ramps. (22 Traffic signals)"				
Counties	Loudon				
City/Agency	City of Lenoir City				
Length	8.6	(miles)	Conformity Status	Exempt	

Additional Details

Programmed Funds

FY	Phase	Funding Type	Total Funds	Federal	State	Local	Other
2020	CON	CMAQ	\$2,210,400	\$2,210,400	\$0	\$0	\$0
2020	PE-D	CMAQ	\$95,000	\$95,000	\$0	\$0	\$0
2020	PE-N	CMAQ	\$5,000	\$5,000	\$0	\$0	\$0
Total			\$2,310,400	\$2,310,400	\$0	\$0	\$0

Revision Date	4/1/2020
Revision Details	Modify project to add PE-N phase in FY 2020. This modification adds \$5,000 CMAQ (\$5,000 federal) to the TIP. The added PE-D funds were anticipated to be obligated out of the previous TIP; however, this did not occur. The project schedule and costs are unchanged. The total project cost remains \$2,310,400.
Previous TIP No.	17-2017-062



Knoxville Regional Transportation Planning Organization TRANSPORTATION IMPROVEMENT PROGRAM FY 2020-2023

MODIFIED

TIP No.	20-2017-062	Revision No.	2	Mobility Plan No.	Consistent with Goal 1	
TDOT PIN	128840.00	STIP No.				
Project Name	Lenoir City CMAQ ITS Phase II					
Lead Agency	City of Lenoir City					
Total Project Cost	\$2,310,400					

Project Description	The proposed project is a Phase II to the Lenoir City CMAQ ITS. It includes additional features not included in Phase I to enhance traffic flow and to reduce emissions. DSRC or similar communication medium, with Advanced Traffic Controllers with cellular modems / batteries will be installed along with non-intrusive detection devices.				
Termini/Intersection	"US-321 / SR-73 /SR-2 US-321 at US-70 US-321 at I-40 Ramps. (22 Traffic signals)"				
Counties	Loudon				
City/Agency	City of Lenoir City				
Length	8.6	(miles)	Conformity Status	Exempt	

Additional Details

Programmed Funds

FY	Phase	Funding Type	Total Funds	Federal	State	Local	Other
2020	PE-N	CMAQ	\$5,000	\$5,000	\$0	\$0	\$0
2021	PE-N	CMAQ	\$66,200	\$66,200	\$0	\$0	\$0
2022	PE-D	CMAQ	\$71,600	\$71,600	\$0	\$0	\$0
2023	CON	CMAQ	\$2,167,600	\$2,167,600	\$0	\$0	\$0
Total			\$2,310,400	\$2,310,400	\$0	\$0	\$0

Revision Date	8/3/2021
Revision Details	Modify project to clarify the project description, revise the schedule and phase cost estimates. The project description is revised to reflect DSRC "or similar communication medium" and to denote "non-intrusive" detection devices. The intent is to be less technology prescriptive. Additional NEPA costs totaling \$66,200 (100% federal CMAQ) are programmed in FY 2021. The PE-Design phase is reduced to \$71,600 (100% federal CMAQ) and programmed in FY 2022. CN is reduced to \$2,167,600 (100% federal CMAQ) and programmed in FY 2023. This modification increases NEPA by \$66,200, reduces PE-D by \$23,400 and shifts \$42,800 from construction to project development. No funds are added to the TIP with this modification and the total project cost remains \$2,310,400.
Previous TIP No.	17-2017-062



KNOXVILLE REGIONAL TPO TRANSPORTATION IMPROVEMENT PROGRAM FY 2020-2023

ORIGINAL

Table 1. Summary of Programmed Revenues

Funding Source	FY 2020	FY 2021	FY 2022	FY 2023	Total	Share (%)
ACNHPP	\$74,000,000	\$6,000,000	\$0	\$0	\$80,000,000	10.99
CMAQ	\$21,200,398	\$17,320,317	\$6,260,822	\$2,725,460	\$47,506,997	6.53
HIP	\$0	\$8,895,612	\$0	\$0	\$8,895,612	1.22
HPP	\$10,249,872	\$0	\$0	\$0	\$10,249,872	1.41
HSIP	\$12,561,100	\$5,500,000	\$1,312,500	\$875,000	\$20,248,600	2.78
HSIP-R	\$0	\$180,000	\$14,100	\$7,050	\$201,150	0.03
LIC	\$171,958	\$0	\$0	\$0	\$171,958	0.02
LOCAL	\$3,146,889	\$9,100,222	\$2,500,000	\$5,418,000	\$20,165,111	2.77
L-STBG	\$24,890,931	\$19,491,134	\$30,580,056	\$21,185,890	\$96,148,011	13.21
L-STBG-TA	\$0	\$250,000	\$747,500	\$0	\$997,500	0.14
NHPP	\$76,422,500	\$38,439,722	\$193,360,000	\$21,744,000	\$329,966,222	45.35
PHSIP	\$41,625	\$850,000	\$20,813	\$13,875	\$926,313	0.13
PRIVATE	\$0	\$242,022	\$0	\$0	\$242,022	0.03
RHSIP	\$950,000	\$0	\$0	\$0	\$950,000	0.13
SECTION 5307	\$8,919,689	\$8,980,763	\$8,666,341	\$8,666,341	\$35,233,134	4.84
SECTION 5310	\$861,825	\$861,825	\$861,825	\$861,825	\$3,447,300	0.47
SECTION 5339	\$974,664	\$895,630	\$931,120	\$931,120	\$3,732,534	0.51
S-STBG	\$18,100,000	\$25,643,292	\$2,800,000	\$16,800,000	\$63,343,292	8.71
S-STBG-TA	\$0	\$890,565	\$0	\$4,325,798	\$5,216,363	0.72
Total	\$252,491,451	\$143,541,104	\$248,055,077	\$83,554,359	\$727,641,991	100.00
Federal	\$143,232,654	\$105,734,305	\$197,279,713	\$62,408,592	\$508,655,264	69.90
State	\$100,615,427	\$19,901,681	\$39,623,816	\$10,294,161	\$170,435,085	23.42
Local	\$8,180,215	\$17,171,902	\$10,689,157	\$10,389,215	\$46,430,489	6.38
Other	\$463,155	\$733,216	\$462,391	\$462,391	\$2,121,153	0.29

Table 2. Summary of Programmed Expenditures

Funding Source	FY 2020	FY 2021	FY 2022	FY 2023	Total	Share (%)
ACNHPP	\$74,000,000	\$6,000,000	\$0	\$0	\$80,000,000	10.99
CMAQ	\$21,200,398	\$17,320,317	\$6,260,822	\$2,725,460	\$47,506,997	6.53
HIP	\$0	\$8,895,612	\$0	\$0	\$8,895,612	1.22
HPP	\$10,249,872	\$0	\$0	\$0	\$10,249,872	1.41
HSIP	\$12,561,100	\$5,500,000	\$1,312,500	\$875,000	\$20,248,600	2.78
HSIP-R	\$0	\$180,000	\$14,100	\$7,050	\$201,150	0.03
LIC	\$171,958	\$0	\$0	\$0	\$171,958	0.02
LOCAL	\$3,146,889	\$9,100,222	\$2,500,000	\$5,418,000	\$20,165,111	2.77
L-STBG	\$24,890,931	\$19,491,134	\$30,580,056	\$21,185,890	\$96,148,011	13.21
L-STBG-TA	\$0	\$250,000	\$747,500	\$0	\$997,500	0.14
NHPP	\$76,422,500	\$38,439,722	\$193,360,000	\$21,744,000	\$329,966,222	45.35
PHSIP	\$41,625	\$850,000	\$20,813	\$13,875	\$926,313	0.13
PRIVATE	\$0	\$242,022	\$0	\$0	\$242,022	0.03
RHSIP	\$950,000	\$0	\$0	\$0	\$950,000	0.13
SECTION 5307	\$8,919,689	\$8,980,763	\$8,666,341	\$8,666,341	\$35,233,134	4.84
SECTION 5310	\$861,825	\$861,825	\$861,825	\$861,825	\$3,447,300	0.47
SECTION 5339	\$974,664	\$895,630	\$931,120	\$931,120	\$3,732,534	0.51
S-STBG	\$18,100,000	\$25,643,292	\$2,800,000	\$16,800,000	\$63,343,292	8.71
S-STBG-TA	\$0	\$890,565	\$0	\$4,325,798	\$5,216,363	0.72
Total	\$252,491,451	\$143,541,104	\$248,055,077	\$83,554,359	\$727,641,991	100.00
Federal	\$143,232,654	\$105,734,305	\$197,279,713	\$62,408,592	\$508,655,264	69.90
State	\$100,615,427	\$19,901,681	\$39,623,816	\$10,294,161	\$170,435,085	23.42
Local	\$8,180,215	\$17,171,902	\$10,689,157	\$10,389,215	\$46,430,489	6.38
Other	\$463,155	\$733,216	\$462,391	\$462,391	\$2,121,153	0.29

KNOXVILLE REGIONAL TPO TRANSPORTATION IMPROVEMENT PROGRAM FY 2020-2023

MODIFIED

Table 1. Summary of Programmed Revenues

Funding Source	FY 2020	FY 2021	FY 2022	FY 2023	Total	Share (%)
ACNHPP	\$74,000,000	\$6,000,000	\$0	\$0	\$80,000,000	10.99
CMAQ	\$18,894,998	\$17,386,517	\$6,332,422	\$4,893,060	\$47,506,997	6.53
HIP	\$0	\$8,895,612	\$0	\$0	\$8,895,612	1.22
HPP	\$10,249,872	\$0	\$0	\$0	\$10,249,872	1.41
HSIP	\$12,561,100	\$5,500,000	\$1,312,500	\$875,000	\$20,248,600	2.78
HSIP-R	\$0	\$180,000	\$14,100	\$7,050	\$201,150	0.03
LIC	\$171,958	\$0	\$0	\$0	\$171,958	0.02
LOCAL	\$3,146,889	\$9,100,222	\$2,500,000	\$5,418,000	\$20,165,111	2.77
L-STBG	\$24,890,931	\$19,491,134	\$30,580,056	\$21,185,890	\$96,148,011	13.21
L-STBG-TA	\$0	\$250,000	\$747,500	\$0	\$997,500	0.14
NHPP	\$76,422,500	\$38,439,722	\$193,360,000	\$21,744,000	\$329,966,222	45.35
PHSIP	\$41,625	\$850,000	\$20,813	\$13,875	\$926,313	0.13
PRIVATE	\$0	\$242,022	\$0	\$0	\$242,022	0.03
RHSIP	\$950,000	\$0	\$0	\$0	\$950,000	0.13
SECTION 5307	\$8,919,689	\$8,980,763	\$8,666,341	\$8,666,341	\$35,233,134	4.84
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S-STBG	\$18,100,000	\$25,643,292	\$2,800,000	\$16,800,000	\$63,343,292	8.71
S-STBG-TA	\$0	\$890,565	\$0	\$4,325,798	\$5,216,363	0.72
Total	\$250,186,051	\$143,607,304	\$248,126,677	\$85,721,959	\$727,641,991	100.00
Federal	\$140,927,254	\$105,800,505	\$197,351,313	\$64,576,192	\$508,655,264	69.90
State	\$100,615,427	\$19,901,681	\$39,623,816	\$10,294,161	\$170,435,085	23.42
Local	\$8,180,215	\$17,171,902	\$10,689,157	\$10,389,215	\$46,430,489	6.38
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HPP	\$10,249,872	\$0	\$0	\$0	\$10,249,872	1.41
HSIP	\$12,561,100	\$5,500,000	\$1,312,500	\$875,000	\$20,248,600	2.78
HSIP-R	\$0	\$180,000	\$14,100	\$7,050	\$201,150	0.03
LIC	\$171,958	\$0	\$0	\$0	\$171,958	0.02
LOCAL	\$3,146,889	\$9,100,222	\$2,500,000	\$5,418,000	\$20,165,111	2.77
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PHSIP	\$41,625	\$850,000	\$20,813	\$13,875	\$926,313	0.13
PRIVATE	\$0	\$242,022	\$0	\$0	\$242,022	0.03
RHSIP	\$950,000	\$0	\$0	\$0	\$950,000	0.13
SECTION 5307	\$8,919,689	\$8,980,763	\$8,666,341	\$8,666,341	\$35,233,134	4.84
SECTION 5310	\$861,825	\$861,825	\$861,825	\$861,825	\$3,447,300	0.47
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Total	\$250,186,051	\$143,607,304	\$248,126,677	\$85,721,959	\$727,641,991	100.00
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Local	\$8,180,215	\$17,171,902	\$10,689,157	\$10,389,215	\$46,430,489	6.38
Other	\$463,155	\$733,216	\$462,391	\$462,391	\$2,121,153	0.29

NOTE: Financial Tables run on 8/2/21 and reflect:
 FY 2020: CMAQ: -\$2,305,400 (Federal: -\$2,305,400)
 FY 2021: CMAQ: +\$66,200 (Federal: +\$66,200)
 FY 2022: CMAQ: +\$71,600 (Federal: +\$71,600)
 FY 2023: CMAQ: +\$2,167,600 (Federal: +\$2,167,600)



Craig Luebke <craig.luebke@knoxplanning.org>

FW: [EXTERNAL] Re: Draft Modification 78 Review 20-2017-062

1 message

Taylor M. Lee <Taylor.M.Lee@tn.gov>
To: Craig Luebke <craig.luebke@knoxtpo.org>

Tue, Aug 3, 2021 at 1:19 PM

Craig,

I'll go ahead and concur with the change.

Thank you,

**Taylor Michael Lee** | Transportation Program Supervisor-Regions 1 & 3

Local Programs Development Office

James K. Polk Building, 6th Floor[505 Deaderick Street, Nashville, TN 37243](https://www.tn.gov/tdot/local-programs)

p. 615-532-3166

Taylor.M.Lee@tn.gov<https://www.tn.gov/tdot/local-programs>

From: Craig Luebke <craig.luebke@knoxtpo.org>
Sent: Tuesday, August 3, 2021 11:54 AM
To: Watkins, Elizabeth (FHWA) <elizabeth.watkins@dot.gov>
Cc: Taylor M. Lee <Taylor.M.Lee@tn.gov>; Robert Hayzlett <Robert.Hayzlett@tn.gov>
Subject: Re: [EXTERNAL] Re: Draft Modification 78 Review 20-2017-062

Thanks Elizabeth, I sure will.

Taylor, after all this circumnavigation, do you or Erin want to follow up with an official concurrence? If you want me to start a clean request, just let me know.

--

Craig Luebke, AICP
Senior Transportation Planner
865.215.3825

Knoxville-Knox County Planning | Knoxville Regional TPO

400 Main Street, Suite 403 | Knoxville, TN 37902

On Tue, Aug 3, 2021 at 12:34 PM Watkins, Elizabeth (FHWA) <elizabeth.watkins@dot.gov> wrote:

Hey Craig,

I agree that it can be processed as a TIP modification. Based on the information provided, the project scope isn't changing but the TIP description is revised to be less prescriptive in the type of technology. This seems like a minor change that doesn't impact the model, transportation conformity, fiscal constraint, etc.

Please reference this consultation when transmitting this modification to TDOT.

Thanks!

Elizabeth

From: Craig Luebke <craig.luebke@knoxtpo.org>
Sent: Tuesday, August 3, 2021 11:12 AM
To: Watkins, Elizabeth (FHWA) <elizabeth.watkins@dot.gov>
Cc: Taylor M. Lee <Taylor.M.Lee@tn.gov>; Robert Hayzlett <Robert.Hayzlett@tn.gov>
Subject: Fwd: [EXTERNAL] Re: Draft Modification 78 Review 20-2017-062

CAUTION: This email originated from outside of the Department of Transportation (DOT). Do not click on links or open attachments unless you recognize the sender and know the content is safe.

Good morning Elizabeth,

I'm working this TIP request up, and Bob Hayzlett asked that I also run the description change by FHWA to bless it as a TIP modification (vs. an amendment) before proceeding. Essentially, the change is to reduce the technology prescriptive bit of the description. We will also be updating the schedule and making some phase adjustments to the costs.

For your convenience, I have attached the draft modification that I sent to TDOT for concurrence. I have not integrated the request to revise the description, but it would be as follows

The proposed project is a Phase II to the Lenoir City CMAQ ITS. It includes additional features not included in Phase I to enhance traffic flow and to reduce emissions. DSRC **or similar communication** with Advanced Traffic Controllers with cellular modems / batteries will be installed along with ~~radar~~ **non-intrusive** detection devices.

Thanks for your feedback. Please let me know if you have any questions.

--

Craig Luebke, AICP

Senior Transportation Planner

865.215.3825

Knoxville-Knox County Planning | Knoxville Regional TPO

400 Main Street, Suite 403 | Knoxville, TN 37902

----- Forwarded message -----

From: **Taylor M. Lee** <Taylor.M.Lee@tn.gov>

Date: Tue, Aug 3, 2021 at 10:07 AM

Subject: RE: [EXTERNAL] Re: Draft Modification 78 Review 20-2017-062

To: Craig Luebke <craig.luebke@knoxtpo.org>, Amber Scott <ascott@lenoircitytn.gov>

Cc: Waldschmidt, Brad <Brad.Waldschmidt@kimley-horn.com>, Erin Rakus <Erin.Rakus@tn.gov>, Sarah Sutton <Sarah.Sutton@tn.gov>, Deborah Fleming <Deborah.Fleming@tn.gov>, Brianna Benson <Brianna.Benson@tn.gov>, Wiseman, Emily <Emily.Wiseman@kimley-horn.com>, Kathryn McClung <Kathryn.McClung@tn.gov>

Good Morning All,

Please see the attached original contract for this project and the amendment #1 that replaced the original Exhibit A. We made changes under the "Project Description" section, which removed radar detection with non-intrusive detection equipment.

Thank you,



Taylor Michael Lee | Transportation Program Supervisor-Regions 1 & 3

Local Programs Development Office

James K. Polk Building, 6th Floor

505 Deaderick Street, Nashville, TN 37243

p. 615-532-3166

Taylor.M.Lee@tn.gov

<https://www.tn.gov/tdot/local-programs>

From: Craig Luebke <craig.luebke@knoxtpo.org>

Sent: Tuesday, August 3, 2021 7:38 AM

To: Amber Scott <ascott@lenoircitytn.gov>

Cc: Waldschmidt, Brad <Brad.Waldschmidt@kimley-horn.com>; Taylor M. Lee <Taylor.M.Lee@tn.gov>; Erin Rakus <Erin.Rakus@tn.gov>; Sarah Sutton <Sarah.Sutton@tn.gov>; Deborah Fleming <Deborah.Fleming@tn.gov>; Brianna Benson <Brianna.Benson@tn.gov>; Wiseman, Emily <Emily.Wiseman@kimley-horn.com>

Subject: [EXTERNAL] Re: Draft Modification 78 Review 20-2017-062

***** This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - STS-Security. *****

I believe we should be able to clean up the description to be less technology specific within the bounds of a modification and not require an amendment.

TDOT, would you concur as well?

Brad, would you mind drafting a description that captures the current concept without the technology specific aspects?

Thanks

--

Craig Luebke, AICP

Senior Transportation Planner

865.215.3825

Knoxville-Knox County Planning | Knoxville Regional TPO

400 Main Street, Suite 403 | Knoxville, TN 37902

On Tue, Aug 3, 2021 at 8:11 AM Amber Scott <ascott@lenoircitytn.gov> wrote:

Brad,

I agree with your response.

Thanks,

Amber Scott

City Administrator

City of Lenoir City

530 Highway 321 North

P.O. Box 445

Lenoir City, TN 37771

Office: 865-986-2715

Mobile: 865-816-4292

Email: ascott@lenoircitytn.gov

From: Waldschmidt, Brad <Brad.Waldschmidt@kimley-horn.com>

Sent: Monday, August 2, 2021 5:06 PM

To: Craig Luebke <craig.luebke@knoxtpo.org>; Taylor M. Lee <Taylor.M.Lee@tn.gov>; Erin Rakus <Erin.Rakus@tn.gov>

Cc: Sarah Sutton <Sarah.Sutton@tn.gov>; Deborah Fleming <Deborah.Fleming@tn.gov>; Brianna Benson <Brianna.Benson@tn.gov>; Amber Scott <ascott@lenoircitytn.gov>; Wiseman, Emily <[<https://mail.google.com/mail/u/0?ik=8b67d81a9d&view=pt&search=all&permthid=thread-a%3Ar-8524652963668136670%7Cmsg-f%3A170709344891...> 5/7](mailto:Emily.Wiseman@kimley-</p></div><div data-bbox=)

horn.com>

Subject: RE: Draft Modification 78 Review 20-2017-062

Amber – I don't want to errantly speak on your behalf, so please read my response below and provide your input.

Craig – I have one comment regarding the Project Description, which references “DSRC” and “radar detection devices”. These are both specific types of technology/equipment, that may or may not be selected for this project. Lenoir City does intend to provide enhanced vehicle detection and Connected Vehicle (CV) equipment, which may or may not be radar detection and DSRC. I believe Lenoir City got this text modified in their contract with TDOT to be “more intent focused” and “less technology specific”, and I suggest re-wording to avoid needing a TIP modification if Lenoir City ultimately chooses a different technology type.

Thank you,

Brad Waldschmidt, P.E., PTOE, RSP1

Kimley-Horn | 214 Oceanside Drive, Nashville, Tennessee 37204

Direct: 615 564 2705 | E-mail: Brad.Waldschmidt@kimley-horn.com

From: Craig Luebke <craig.luebke@knoxtpo.org>

Sent: Monday, August 2, 2021 12:42 PM

To: Taylor M. Lee <Taylor.M.Lee@tn.gov>; Erin Rakus <Erin.Rakus@tn.gov>

Cc: Sarah Sutton <Sarah.Sutton@tn.gov>; Deborah Fleming <Deborah.Fleming@tn.gov>; Brianna Benson <Brianna.Benson@tn.gov>; Amber Scott <ascott@lenoircitytn.gov>; Waldschmidt, Brad <Brad.Waldschmidt@kimley-horn.com>; Wiseman, Emily <Emily.Wiseman@kimley-horn.com>

Subject: Draft Modification 78 Review 20-2017-062

Good afternoon Taylor,

Please see the attached draft modification for Lenoir City's ITS Phase 2 project. This modification updates the schedule and shifts funding from PE-D and CN to the NEPA phase.

Please respond with your concurrence/comments.

FYI - I have copied both the CMAQ office, the LPA and their consultant to give those parties a chance to review and comment on the draft modification as well.

Thanks for your consultation.

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