

The Nebraska State Highway Commission

District 1 Program Meeting

NEBRASKA

Good Life. Great Journey.

DEPARTMENT OF TRANSPORTATION

District 1

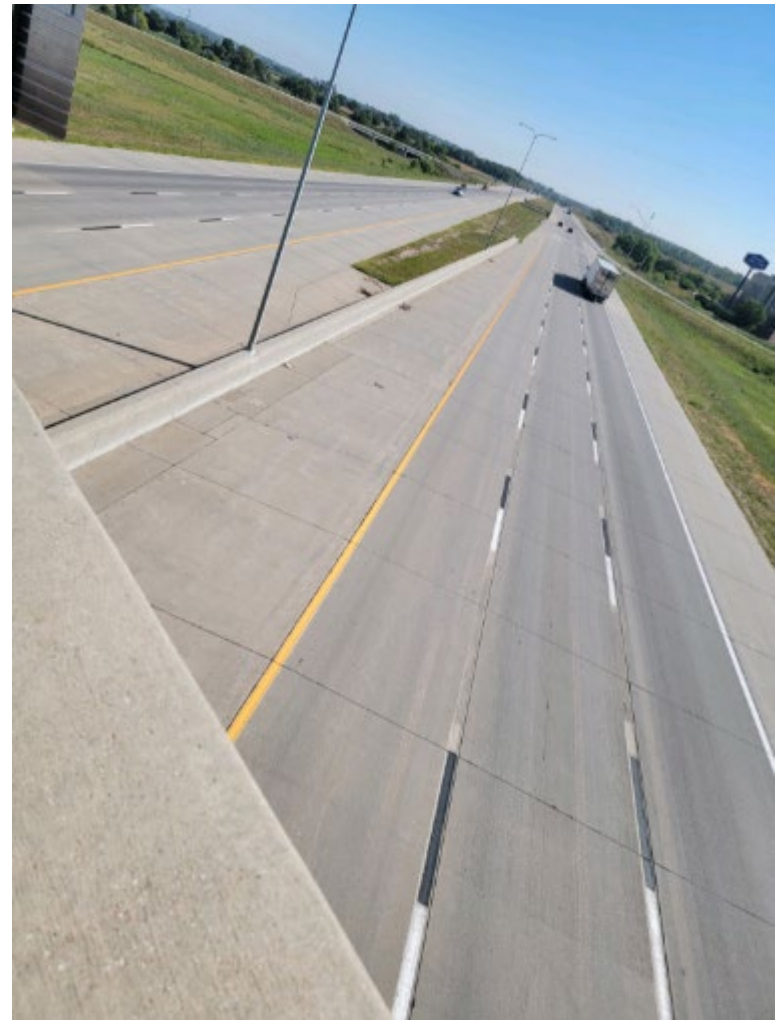
2023

PROGRAM





ROUNDAABOUT



STRIPING

Cable Median Barrier in Nebraska

Don Butler

Highway Safety Engineer

NEBRASKA

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DEPARTMENT OF TRANSPORTATION

On I-80 west of Lincoln, state installing cable barriers to stop cross-median crashes

Peter Salter Jul 2, 2022 Updated Aug 6, 2022 2



Contractors have already poured a ribbon of pavement on Interstate 80 to serve as the anchor for the three cable barriers that will essentially serve as a long, low fence between the two directions of travel between the Pleasant Dale and Utica exits. Credit: Lincoln Journal Star

UPDATE: Three dead after fatal crash on I-80 near Milford



A burned semi sits along the interstate after a crash closed both directions of traffic.

By [Ryan Swanigan](#)

Published: Mar. 8, 2022 at 7:16 AM CST | Updated: Mar. 8, 2022 at 3:41 PM CST



LINCOLN, Neb. (KOLN) - I-80 eastbound and westbound lanes were shut down near the Milford exit (mile marker 381) for several hours Tuesday morning following a fatal crash which killed three people.

The Seward County Sheriff's Office was dispatched to a multiple vehicle crash on I-80 at around 5:45 a.m.

According to officials, the preliminary investigation shows that a tractor-trailer was traveling eastbound on I-80 and crossed the median entering the westbound lanes of travel. The tractor-trailer struck a westbound traveling tractor-trailer head-on. An additional tractor-trailer traveling in the westbound lane swerved to avoid the collision, causing the tractor-trailer to cross the median and overturn in the eastbound lanes of travel.

Credit: New Channel 6

FHWA Proven Safety Countermeasures

<https://safety.fhwa.dot.gov/provencountermeasures/>

Safety Benefits:

**Median Barriers Installed
on Rural Four-Lane
Freeways**

97%

reduction in
cross-median crashes.²

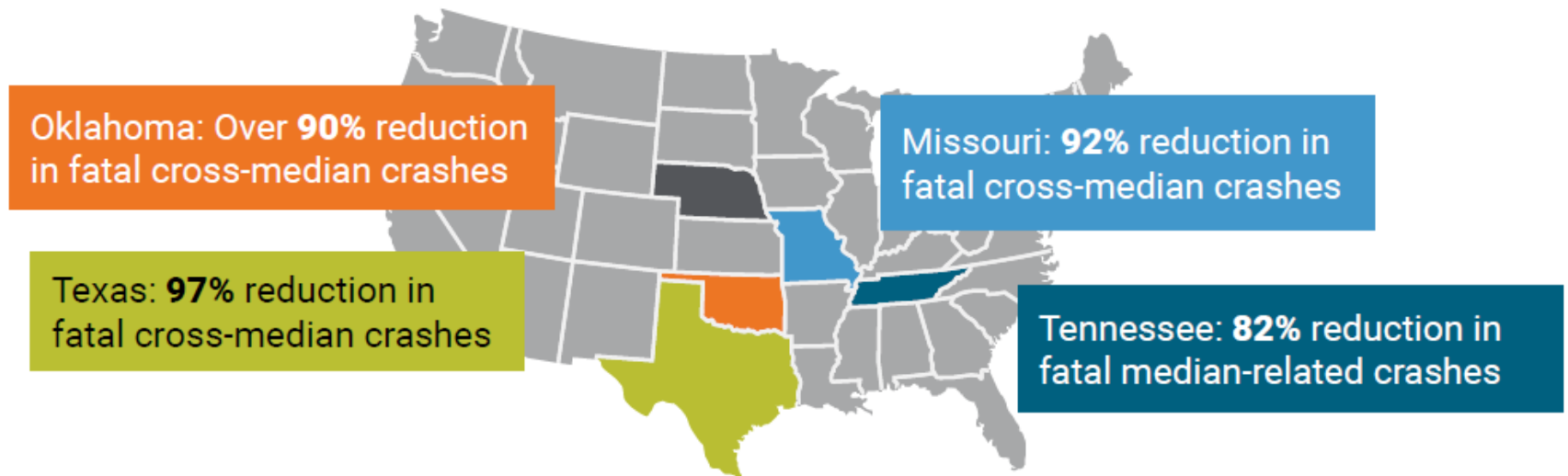


Median cable barrier prevents a potential head-on crash.

Source: Washington State DOT

Experience in Other States

Median cable guardrail is common on freeways and highways across the country. States that have implemented median cable guardrail have seen reductions in cross-median fatality crashes.



Cable Median Barrier (CMB)

What is Median Cable Guardrail?

Median cable guardrail consists of steel cable mounted on posts. It is designed to prevent vehicles from crossing the median into opposing lanes, in turn reducing fatalities and severe injuries from cross-median crashes.



How Cable Median Barriers Work



Cable Median Barriers Work

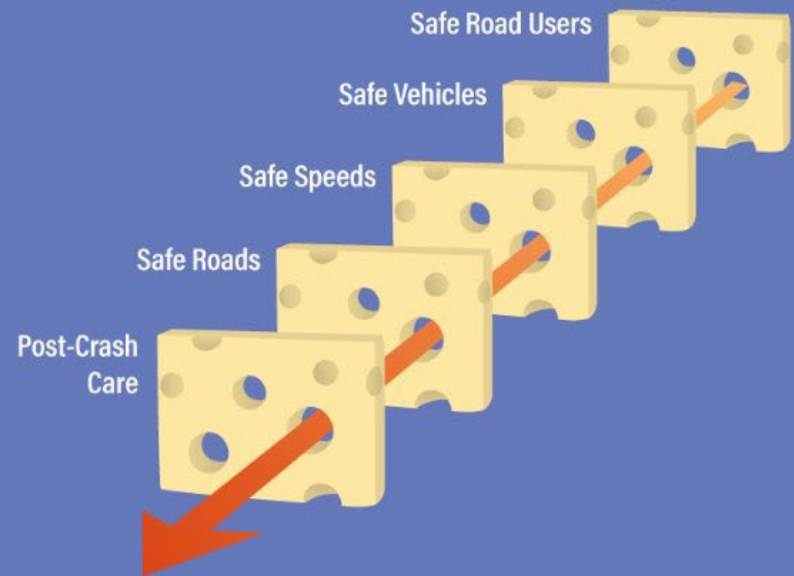


Redundant Safety Layers

The "Swiss Cheese Model" of redundancy creates layers of protection.



Death and serious injuries only happen when all layers fail.



CMB In Nebraska – Bellevue US-75

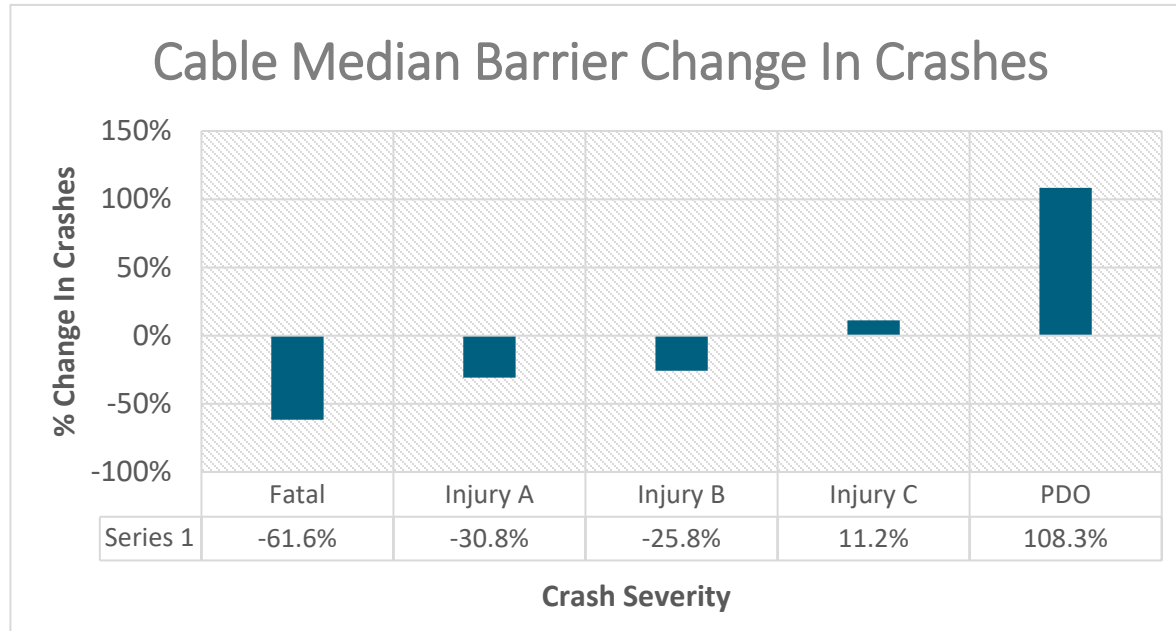


CMB In Nebraska – Bellevue US-75



Crash History and Analysis

- Review History of Cross-median Crashes for Interstates and Freeways
- Locations with High Traffic Volumes and Narrow Medians
- Reduces Crash Severity Not Total Crashes



Credit: Iowa DOT InTrans Project 15-546

I-80 Segment

Where is cable guardrail being implemented?

The cable guardrail is being installed in the median of Interstate 80 from the Utica interchange (MM 365) to the Pleasant Dale interchange (MM 387) and will run in the center of the median.



When is guardrail construction expected to be finished?

Construction is estimated to be complete in 2023.

Nebraska: 140 vehicles have crossed the median along I-80 from Lincoln to York in the past 5 years. In total, 50% of those crashes resulted in injuries and 5 fatalities.

On I-80 west of Lincoln, state installing cable barriers to stop cross-median crashes

Peter Salter Jul 2, 2022 Updated Aug 6, 2022 2



Contractors have already poured a ribbon of pavement on Interstate 80 to serve as the anchor for the three-cable system, which will essentially serve as a long, low fence between the two directions of travel between the Pleasant Dale and Utica exits.

Credit: Lincoln Journal Star



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dot.nebraska.gov/buckle-up-phone-down

The Nebraska State Highway Commission District 1 - Construction

Curt Muetting, PE

District 1 Construction Engineer

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Lincoln South Beltway

DPU-LIN-2-6(120)



- Let December 2019
- NTP May 1, 2020
- Substantial Completion May 1, 2023
- Project Completion May 1, 2024





PROJECT HIGHLIGHTS TO DATE: (as of 8/15/2022)

30 Monthly Pay Estimates

- \$314 Million Pd to Date

5.31 Million CY Embankment
Placed (5.66 M CY Project Total)

44 Box Culverts

21 Bridges Total

- All Under Construction (or completed)

686,000 SY (229,000 CY) Pavement
Placed

- 839,400 SY (279,800 CY) Project Total

NDOT/LOCAL PUBLIC ASSISTANCE PROJECTS 2020 - 2022

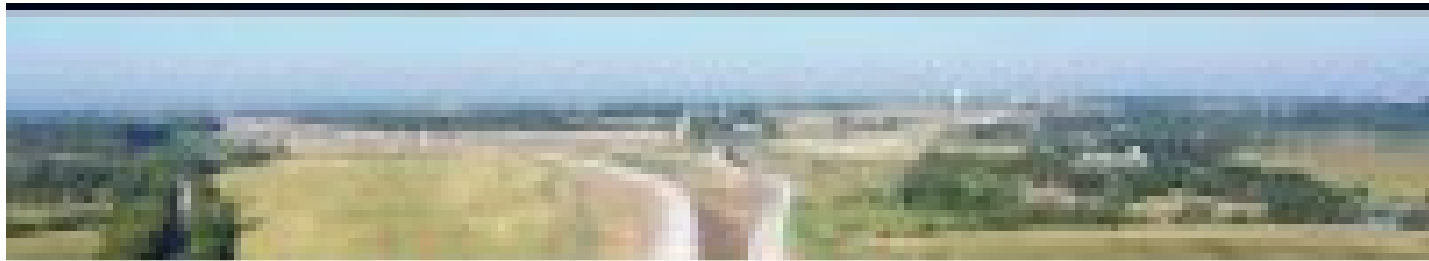
CN	Letting	Contract \$	CN	Letting	Contract \$
11718	7/25/2019	\$6,339,689	13249**	9/24/2020	\$1,039,928
13991	8/29/2019	\$133,634	13212*	10/3/2020	\$1,341,967
13297	8/29/2019	\$412,432	13291*	10/15/2020	\$1,038,170
13273	9/19/2019	\$2,041,478	13250	10/15/2020	\$2,967,008
13326	9/19/2019	\$1,556,723	13381	10/15/2020	\$945,502
13272	9/19/2019	\$1,445,836	13236	10/29/2020	\$6,255,633
11718	10/3/2019	\$1,341,967	12945**	10/29/2020	\$1,241,567
11781*	10/24/2019	\$1,457,582	13411	11/19/2020	\$147,684
13325	11/21/2019	\$1,368,482	13247*	11/19/2020	\$3,466,339
13268	11/21/2019	\$4,320,970	13401	11/19/2020	\$2,882,213
13332	11/21/2019	\$1,031,293	13371	12/10/2020	\$496,728
13161**	1/16/2020	\$804,428	1005	1/14/2021	\$400,306
13264	2/27/2020	\$7,390,289	13218	7/22/2021	\$1,474,675
1004	2/27/2020	\$196,647	13441	8/26/2021	\$1,193,762
13380	3/26/2020	\$1,690,885	13295	8/26/2021	\$4,236,404
13379	3/26/2020	\$1,288,288	13244*	9/30/2021	\$1,987,898
13382*	3/26/2020	\$1,292,293	13467	10/21/2021	\$1,829,083
13347*	3/26/2020	\$3,072,461	13270	11/18/2021	\$8,225,460
13358	5/21/2020	\$16,267,772	13186	11/18/2021	\$7,391,421
13245	5/21/2020	\$1,693,868	13303	12/16/2021	\$12,158,364
13338	6/11/2020	\$10,914,340	12704	2/10/2022	\$4,526,488
13277	6/11/2020	\$2,112,341	13276	2/10/2022	\$16,851,624
13361**	8/20/2020	\$1,290,904	1013	2/10/2022	\$482,750
13278	8/20/2020	\$4,727,334	13448	3/3/2022	\$9,543,323
13304	8/20/2020	\$4,288,818	13482	5/12/2022	\$64,996
13305	8/20/2020	\$6,382,987	13479	6/16/2022	\$1,100,163
13266	8/20/2020	\$4,809,518			

TOTAL 52 PROJECTS

TOTAL = \$181 Million

* Local Public Assistance w/Consultant CE (7 Projects)

** Local Public Assistance w/ NDOT CE (4 Projects)



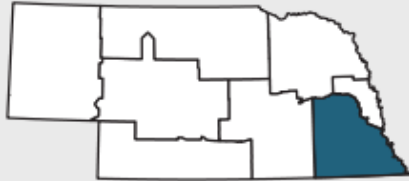
LINCOLN SOUTH BELTWAY





District One

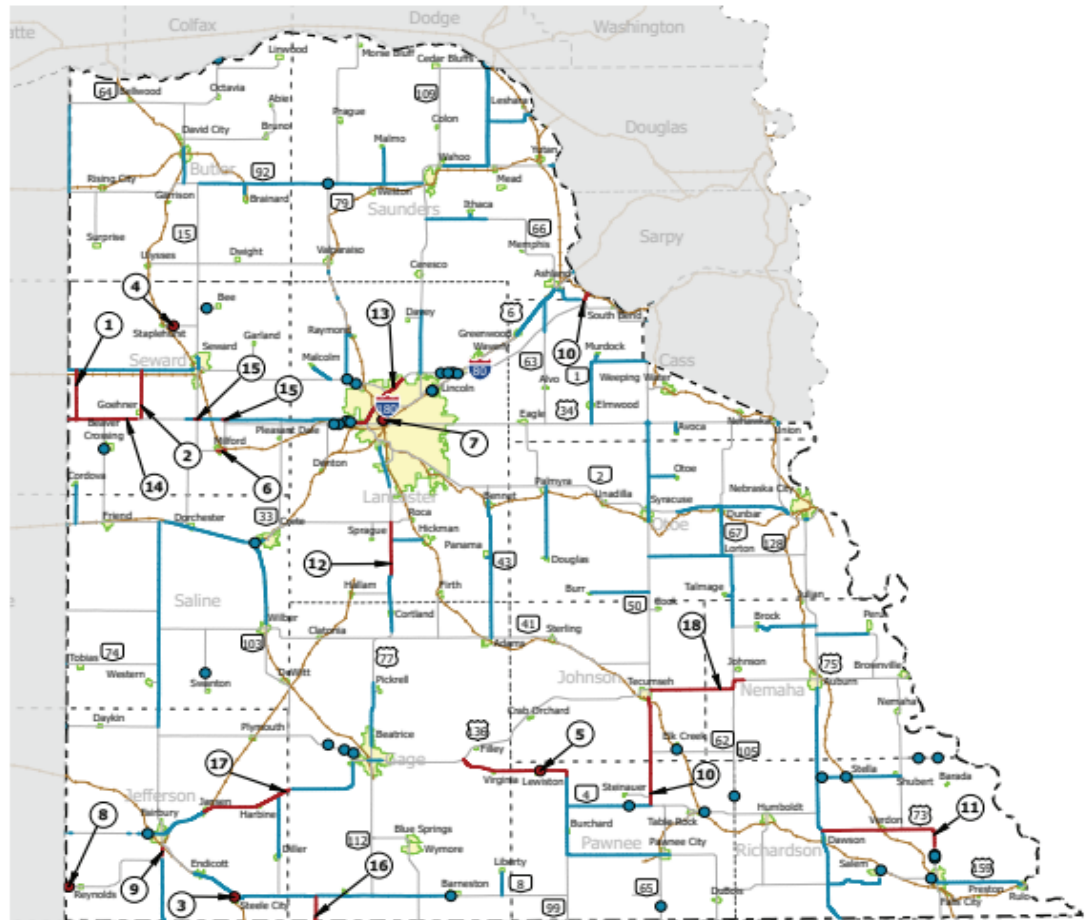
Six-Year Highway Program



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Thomas Goodbarn
302 Superior St.
Lincoln, NE 68521
402-471-0850



Highway Commissioner
Mary K. Gerdes
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402-868-3625



— = FY 2023 Construction Program
— = FY 2024-2028 Planning Program

Fiscal Year 2023 Construction Program

District One

July 1, 2022 - June 30, 2023

HWY. NO.	BEGIN REF. POST	COUNTY	CONTROL NO.	PROJECT NO.	LOCATION	LENGTH (MI.)	TYPE OF IMPROVEMENT	EST. COST (\$1,000)
		Lancaster	13388	S-D1(1034)	In Lincoln		Municipal Resurf. FY-2023	\$ 400
*		Saunders	10584B	MISC-79-2(1019)	Ashland Mitigation Site		Wetland Bank	(2,002)
① L-80F	0.00	Seward	13301	STP-L80F(117)	Utica South	5.7	Mill, Resurf.	2,140
② L-80G	0.37	Seward	13300	STP-L80G(116)	Goehner North	5.4	Mill, Resurf.	1,898
③ S-48A	0.15	Jefferson	13344	STP-S48A(101)	Steele City Spur Bridge	0.0	Br.	1,387
④ S-80C	2.61	Seward	13292	STP-S80C(115)	Staplehurst Spur Bridge	0.1	Br.	2,371
⑤ N-4	167.47	Gage	13028	STP-4-6(114)	E. Jct. US-136 - Lewiston Spur	12.3	Mill, Resurf.	7,940
⑥ US-6	292.26	Seward	13273A	STP-6-6(163)	In Milford	1.0	Urban	5,519
⑦ US-6	313.39	Lancaster	13510	STR-6-6(1059)	Sun Valley Blvd. Viaduct	0.0	Br.	251
⑧ N-8	38.52	Jefferson	13238	STP-8-6(115)	Rose Creek Bridge West of Reynolds	0.2	Br.	2,550
⑨ N-8*	51.55	Jefferson	11599	STP-8-6(104)	Blue River South of Fairbury	0.9	Br.	(10,258)
⑩ N-50	20.02	Pawnee	13275	STP-50-1(114)	W. Jct. N-4 - Tecumseh	12.0	Resurf., Br.	15,092
⑪ US-73	8.14	Richardson	13307	NH-73-1(119)	Verdon East & West	13.9	Mill, Resurf., Br.	11,445
⑫ US-77	45.09	Lancaster	13386	NH-77-2(166)	Princeton - N-33	5.8	Resurf., Br.	7,941
⑬ I-80	394.63	Lancaster	13283	NH-80-9(92)	I-80 Barrier, Lincoln	9.0	Seal	562
⑭ I-80	365.14	Seward	13356	NH-80-8(159)	York/Seward Co. Line - Goehner	7.5	Mill, Resurf., Br.	10,689
⑮ I-80	378.80	Seward	13444	NH-80-8(163)	Seward - Milford Intch. Lighting	1.3	Lighting	1,620
⑯ N-112	0.00	Gage	13481	STP-112-1(104)	Kansas Line - W. Jct. N-8	3.0	Mill, Resurf.	2,100
⑰ US-136	156.24	Jefferson	13246	NH-136-6(124)	Jansen East	9.8	Resurf.	6,238
⑱ US-136	211.33	Johnson	13398	NH-136-7(127)	Tecumseh East	10.8	Mill, Resurf, Br.	9,348
District Total								\$ 84,491

* Carryover - project funded in previous fiscal year(s).

Thank You!

See you in 2024!

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