



**YUMA METROPOLITAN  
PLANNING ORGANIZATION**

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# **2022-2045 LONG-RANGE TRANSPORTATION PLAN UPDATE**

*Yuma Region in Motion*

**FINAL REPORT – AMENDMENT 1**

**February 2024**

# 1. SUMMARY OF CHANGES IN AMENDMENT 1

Since the completion of the Yuma Metropolitan Planning Organization's (YMPO) 2022-2045 Long-Range Transportation Plan (LRTP) in July 2021, some project needs have changed; and YMPO and its member agencies have been successful in securing additional funding to advance some projects. To accommodate these changes, YMPO is amending the 2022-2045 LRTP to include the following revisions to the original LRTP.

**Table 1: Proposed Project Revisions to the LRTP in Amendment #1**

LRTP Project	LRTP Horizon	Comment
<b>Original Project Limits:</b> Avenue E / Avenue D Extension: County 23rd Avenue to County 18th Street  <b>Revised Project Limits:</b> Avenue E / Avenue D Extension: County 23rd Avenue to County 16th Street	<b>Original LRTP Horizon:</b> FY2027-FY2031  <b>Revised LRTP Horizon:</b> FY2022-FY2026	Yuma County sees the need to extend the project limits by 2 miles to County 16 <sup>th</sup> Street and also advance the project construction horizon as the County is actively working to secure funding for the project. This update in the LRTP allows the project to move forward with design and right-of-way acquisition programmed in FY2024/25. County 18 <sup>th</sup> St to County 16 <sup>th</sup> St is already included in the travel demand model, and this extension is primarily a paving and intersection improvements project. It does not add capacity. Paving / intersection enhancement projects are exempt under 40 CFR § 93.126. So, a conformity analysis is not needed for extending this project.
<b>Original Project Limits:</b> 40th Street Widening: Avenue 6 3/4 E to Desert Willow Way  <b>Revised Project Limits:</b> 40th Street Widening/Extension: Avenue 6E to Fortuna Road	<b>Original LRTP Horizon:</b> FY2032-FY2036  <b>Revised LRTP Horizon:</b> FY2022-FY2026	The City of Yuma is currently working on a Design Concept Report and an Environmental Assessment for extending and/or widening 40 <sup>th</sup> Street from Avenue 6E to Fortuna Road. This project would combine three separate projects in the current LRTP. The City also anticipates advancing this project to the FY22-26 horizon.
<b>Original Project Limits:</b> 40th Street Widening: Avenue 8E to Avenue 10E  <b>Revised Project Limits:</b> 40th Street Widening/Extension: Avenue 6E to Fortuna Road	<b>Original LRTP Horizon:</b> FY2032-FY2036  <b>Revised LRTP Horizon:</b> FY2022-FY2026	
<b>Original Project Limits:</b> 40th Street Overpass: SR 195  <b>Revised Project Limits:</b> 40th Street Widening: Avenue 6E to Fortuna Road	<b>Original LRTP Horizon:</b> FY2032-FY2036  <b>Revised LRTP Horizon:</b> FY2022-FY2026	
<b>Original Project Limits:</b> US 95 widening from Wellton Mohawk to Aberdeen  <b>Revised Project Limits:</b> No Change	<b>Original LRTP Horizon:</b> FY2032-FY2036  <b>Revised LRTP Horizon:</b> FY2022-FY2026	

These project updates could have an impact on air quality emissions. All project updates are within the Yuma PM10 non-attainment area and as a result, the PM10 analysis was updated. All project updates are outside and far away from the Yuma Ozone non-attainment area. Ozone emissions were NOT updated since all project updates are located outside the Yuma Ozone non-attainment area.

Each change to conformity document is highlighted with an **ORANGE** color shading.

2022-2045 YMPO LRTP Pages Amended



Figure 8.3. Roadway Improvement Needs

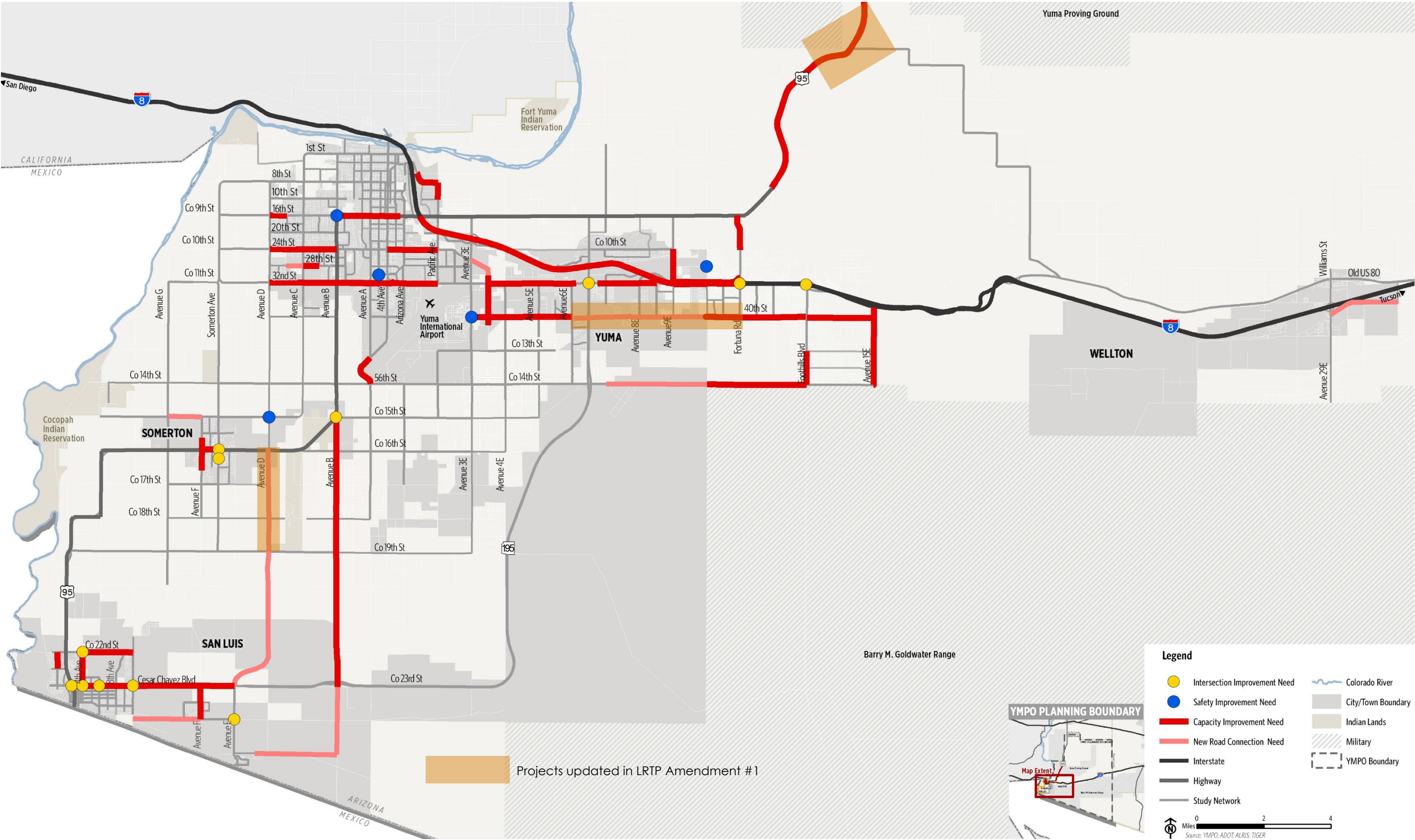
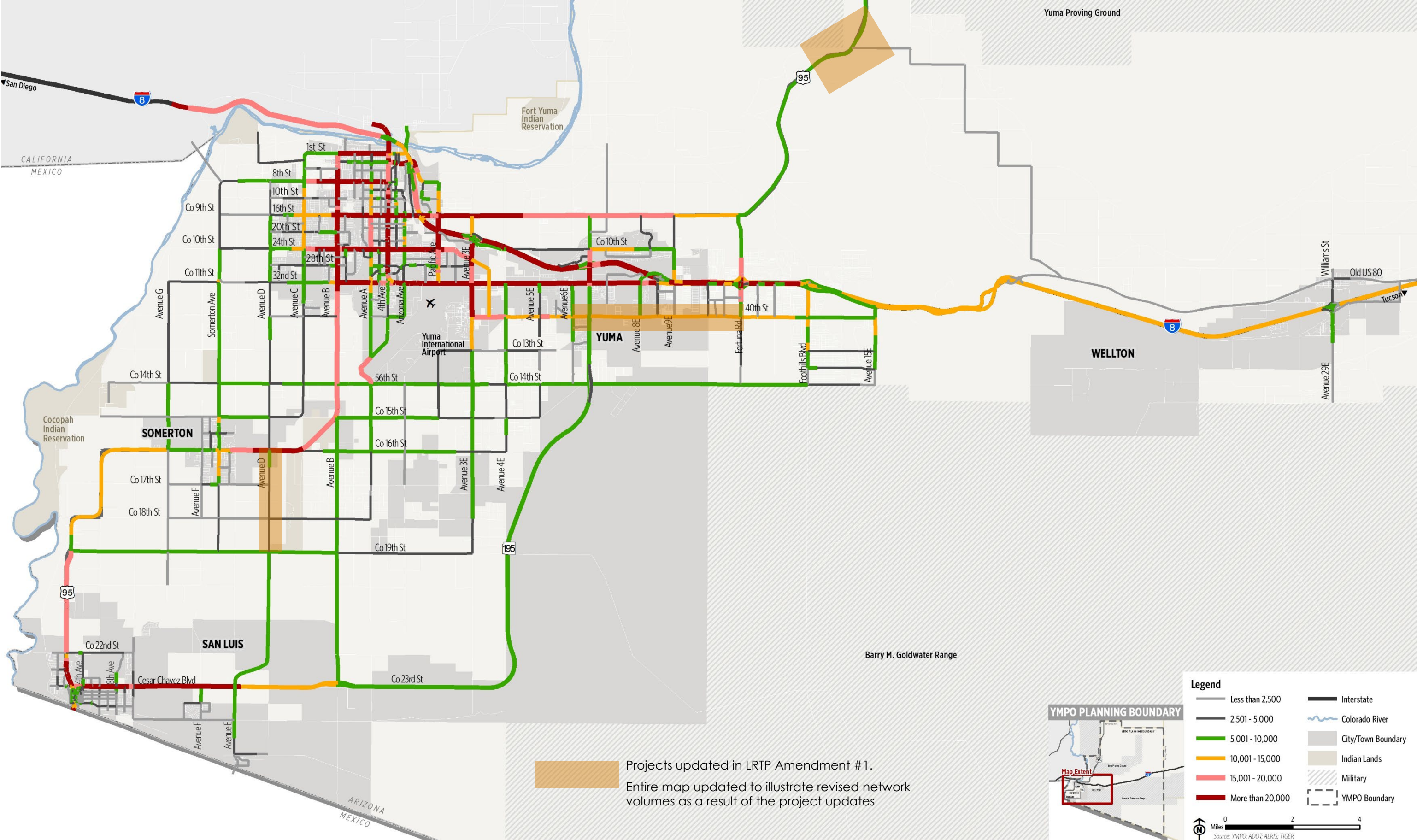


Figure 8.4. Projected 2045 Traffic Volumes with Roadway Improvements



**Figure 8.5. Projected 2045 Level of Congestion with Roadway Improvements**

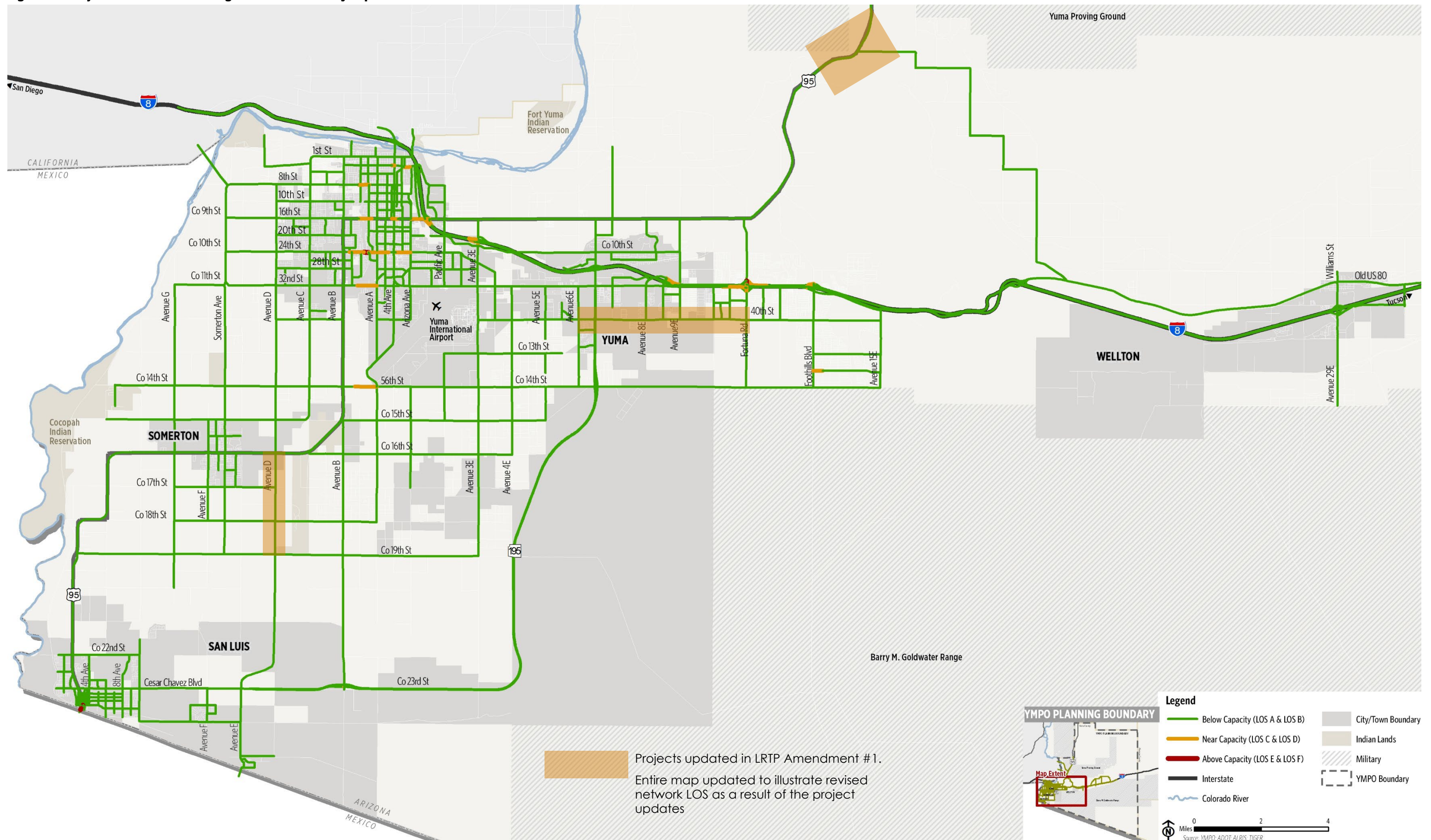


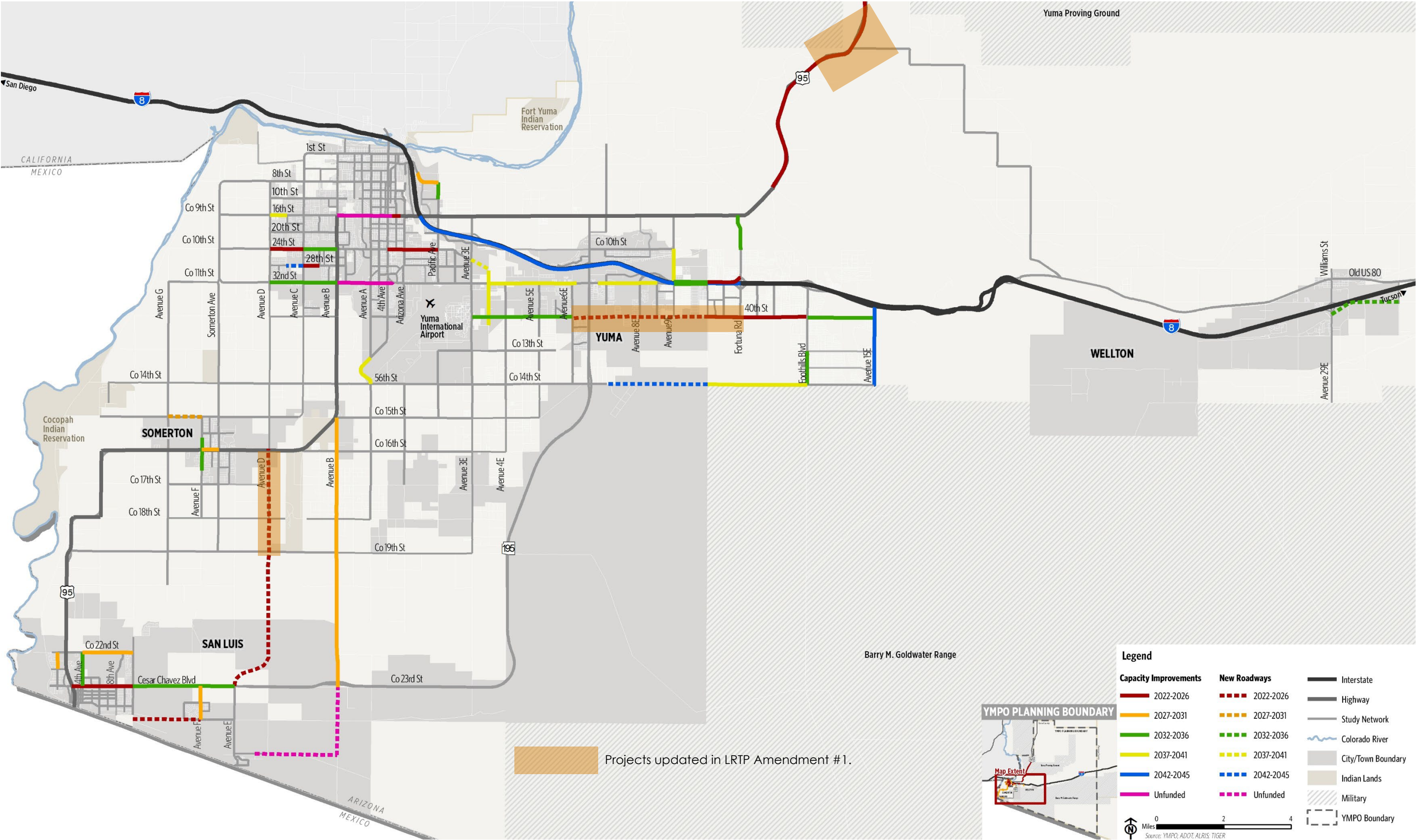
Table 9.7. Capacity and New Roadway Improvements by Implementation Phase

ID	Lead Agency	Project	Length (Mi)	Project Description	2022-2026	2027-2031	2032-2036	2037-2041	2042-2045	Cost	Cost at Year of Expenditure (YOE)
CAP-0	ADOT	US 95 Widening: Rifle Range Road to Wellton-Mohawk Canal	3	Widen roadway from two lanes to four lanes.	X					\$10,601,000	\$10,601,000
CAP-1	City of Yuma	28th Street Widening: Avenue C to 33rd Avenue	1	Widen roadway from two lanes to four lanes.	X					\$3,000,000	\$3,000,000
CAP-3	City of Yuma	24th Street Widening: Avenue C to Avenue D	1	Widen roadway from two lanes to four lanes.	X					\$3,000,000	\$3,000,000
CAP-2	City of Yuma	28th Street Extension: Avenue C to 45th Avenue	0.5	Construct new two-lane roadway.	X					\$1,300,000	\$1,300,000
CAP-5	City of San Luis	County 24th Street Extension: 10th Avenue to Avenue F	2	Construct new two-lane roadway.	X					\$1,345,760	\$1,345,760
CAP-6	City of San Luis	Cesar Chavez Boulevard Widening: Main Street to 10th Avenue	1.8	Widen roadway from two lanes to four lanes.	X					\$5,400,000	\$5,400,000
CAP-7	City of Yuma	16th Street Widening: 3rd Avenue to Maple Avenue	0.2	Widen roadway from four lanes to six lanes.	X					\$5,520,000	\$5,520,000
CAP-8	Yuma County	North Frontage Road Widening: Avenue 10E to Fortuna Road	1	Widen roadway from two lanes to four lanes.	X					\$3,000,000	\$3,000,000
CAP-9	City of Yuma	Airport Area Traffic Circulation Study: 32nd Street, Avenue B, County 14th Street, Avenue 3E	N/A	Develop a traffic circulation plan for the Yuma International Airport area. Address congestion issues on Airport Loop Road; evaluate impacts of potential closure of Airport Loop Road and 4th Avenue extension.	X					\$200,000	\$200,000
CAP-10	City of San Luis	Merrill Avenue Widening: County 22nd Street to County 22 1/2 Street	0.5	Add center turn lane.		X				\$1,650,000	\$2,245,422
CAP-11	City of San Luis	County 22nd Street Widening: 4th Avenue to 10th Avenue	1.5	Widen roadway from two lanes to four lanes.		X				\$4,500,000	\$6,123,878
CAP-12	City of San Luis	Avenue F Widening: Cesar Chavez Boulevard to San Luis Lane	1	Widen to four lanes.		X				\$3,000,000	\$4,082,585
CAP-13	Yuma County	County 12th Street Widening: Fortuna Road to Avenue 12E	1	Widen roadway from two lanes to four lanes.		X				\$3,000,000	\$4,082,585
CAP-14	Town of Somerton	County 15th Street Extension: Avenue G to Avenue F	1	Construct new two-lane roadway.		X				\$2,600,000	\$3,538,241
CAP-15	Town of Somerton	Main Street Reconfiguration: Cesar Chavez Avenue to Somerton Avenue		Reduce four lane road to three lane road. Enhance bike and pedestrian facilities.		X				\$450,000	\$612,388
CAP-16	Yuma County	40th Street Extension: Avenue 8E to Avenue 10E	2	Construct new two-lane roadway.		X				\$9,800,000	\$13,336,446
CAP-16	City of Yuma / Yuma County	40th Street Widening/Extension: Avenue 6E to Fortuna Road	5	Construct new three lane roadway for missing segments. Widen existing segments to 3 lane segments;	X					\$60,000,000	\$60,000,000
CAP-17	Yuma County	Avenue E/Avenue D Extension: County 23rd Street to County 16th Street	5.6	Construct new two-lane roadway. Portion from Co 18th to Co 16th St is repaving, not widening.	X					\$24,000,000	\$24,000,000
CAP-18	Yuma County	Avenue B Safety Improvements: County 15th Street to SR 195	7	Implement safety improvements along the corridor including pavement rehabilitation, pave/grade shoulders, wider pavement markings, and intersection improvements.		X				\$472,500	\$643,007
CAP-19	Yuma County	8th Street Widening: 6th Street to Pacific Avenue	0.8	Widen roadway from two lanes to four lanes.		X				\$4,160,000	\$5,661,185
CAP-20	City of Yuma	32nd Street Widening: 1,500 Feet West of Avenue 7E to Avenue 8 1/2 E	1.8	Widen roadway from four lanes to six lanes.			X			\$5,400,000	\$9,157,760
CAP-21	City of Yuma	32nd Street Widening: Avenue 3E to Quarter Mile East of Avenue 6E	3.25	Widen roadway from four lanes to six lanes.			X			\$9,600,000	\$16,280,462
CAP-22	City of Yuma	40th Street Widening: Avenue 3E to Avenue 4E	1	Widen roadway from two/three lanes to four lanes.			X			\$1,500,000	\$2,543,822
CAP-23	City of Yuma	North Frontage Road Widening: Avenue 9E to Avenue 10E	1	Widen roadway from two lanes to four lanes.			X			\$3,000,000	\$5,087,644
CAP-24	City of Yuma	Pacific Avenue Widening: 8th Street to 12 Street	0.5	Widen roadway from two lanes to four lanes.			X			\$1,500,000	\$2,543,822
CAP-25	City of Yuma	South Frontage Road Widening: Avenue 9E to Avenue 10E	1	Widen roadway from two lanes to four lanes.			X			\$3,000,000	\$5,087,644
CAP-26	ADOT	US 95 Widening: Wellton-Mohawk Canal to Aberdeen Road	9.5	Widen roadway from two lanes to four lanes.	X					\$57,032,493	\$57,032,493

Table 9.7. Capacity and New Roadway Improvements by Implementation Phase (Continued)

ID	Lead Agency	Project	Length (Mi)	Project Description	2022-2026	2027-2031	2032-2036	2037-2041	2042-2045	Cost	Cost at Year of Expenditure (YOE)
CAP-27	City of San Luis	4th Avenue Widening: Cesar Chavez Boulevard to County 22nd Street	1	Widen roadway from two lanes to four lanes.			X			\$3,000,000	\$5,087,644
CAP-28	Yuma County	Fortuna Road Widening: US 95 to 28th Street	1.5	Widen roadway from two lanes to four lanes.			X			\$4,500,000	\$7,631,466
CAP-29	Town of Wellton	County 11th Street Extension: Avenue 29E to Avenue 31E	2	Construct new two-lane roadway.			X			\$5,200,000	\$8,818,583
CAP-30	Yuma County	40th Street Widening: Avenue 6 3/4 E to Desert Willow Way	1	Construct new two-lane roadway.			X			\$4,900,000	\$8,309,819
CAP-31	Yuma County	40th Street Widening: Avenue 4E to Avenue 6E	2	Widen roadway from two lanes to four lanes.			X			\$7,000,000	\$11,871,170
CAP-32	Yuma County	County 12th Street Widening: Foothills Boulevard to Avenue 15E	2	Widen roadway from two lanes to four lanes.			X			\$6,000,000	\$10,175,289
CAP-33	Yuma County	Foothills Boulevard Widening: County 13th Street to County 14th Street	1	Widen roadway from two lanes to four lanes.			X			\$3,000,000	\$5,087,644
CAP-34	City of San Luis	Cesar Chavez Boulevard Widening: 10th Avenue to Avenue E	3	Widen roadway from two lanes to four lanes.			X			\$9,000,000	\$15,262,933
CAP-35	City of Yuma	32nd Street Widening: Avenue B to Avenue D	2	Widen roadway from two lanes to four lanes.			X			\$6,000,000	\$10,175,289
CAP-36	Town of Somerton	Cesar Chavez Avenue Widening: County 15-1/2 Street to County 16-1/2 Street	0.5	Widen roadway from two lanes to four lanes.			X			\$1,500,000	\$2,543,822
CAP-37	City of Yuma	Avenue 3-1/2 E to 24th Street Connection: 24th Street/Avenue 3E intersection to Avenue 3-1/2 E End Terminus	0.75	Construct new two-lane roadway.				X		\$3,675,000	\$7,766,660
CAP-38	City of Yuma	Avenue 3-1/2 E Widening: 32nd Street to 44th Street	1.5	Widen roadway from two lanes to four lanes.				X		\$4,500,000	\$9,510,196
CAP-39	City of Yuma	Avenue 9E Widening: North Frontage Road to 24th Street	1	Widen roadway from two lanes to four lanes.				X		\$3,000,000	\$6,340,130
CAP-40	City of Yuma	16th Street Widening: Avenue D to 45th Avenue	0.5	Widen roadway from two lanes to four lanes.				X		\$1,500,000	\$3,170,065
CAP-41	Yuma County	County 14th Street Extension: Avenue 10E to Avenue 13E	3	Construct new two-lane roadway.				X		\$7,800,000	\$16,484,339
CAP-42	City of Yuma	24th Street Widening: Avenue C to Avenue B	1	Widen roadway from two lanes to four lanes. Improve Ave B/24th Street intersection to include turn lanes and traffic signal upgrades.					X	\$3,450,000	\$9,086,099
CAP-43	ADOT	I 8 Widening: 16th Street to Fortuna Road	10	Widen I 8 from two lanes to three lanes each direction.					X	\$97,000,000	\$255,464,245
CAP-44	City of Yuma	County 14th Street Extension: Avenue 7E to Avenue 10E	3	Construct new two-lane roadway.					X	\$7,800,000	\$20,542,486
CAP-45	Yuma County	Avenue 15E Widening: South Frontage Road to County 14th Street	2.3	Widen roadway from two lanes to four lanes.					X	\$6,900,000	\$18,172,199
CAP-46	City of Yuma	40th Street Overpass: SR 195	0.1	Construct overpass.					X	\$15,000,000	\$39,504,780
CAP-47	City of Yuma	56th Street and SR 195 Service Traffic Interchange: SR 195	0.1	Construct service traffic interchange.					X	\$18,000,000	\$47,405,736
										\$393,654,260	\$712,685,695
Unfunded Needs											
CAP-48	City of San Luis	Avenue B Extension: SR 195 to County 25th Street Alignment	2	Construct new two-lane roadway.						\$5,200,000	\$13,694,990
CAP-49	City of San Luis	County 25th Street Extension: Avenue E to Avenue B Alignment	2.5	Construct new two-lane roadway.						\$6,500,000	\$17,118,738
CAP-50	City of Yuma	16th Street Widening: Avenue B to 3rd Avenue	1.6	Widen roadway from four lanes to six lanes.						\$44,160,000	\$116,302,073
CAP-51	City of Yuma	32nd Street Widening: Avenue B to 32nd Street Connection	1.6	Widen roadway from four lanes to six lanes.						\$44,160,000	\$116,302,073

Figure 9.3. Capacity and New Roadway Improvements by Implementation Phase



## Newly Paved Roads

In addition to the emissions reduction sources described above, there will be emissions reductions gained through newly-paved roads and widened roads that are recommended in the 2022–2045 LRTP. Emissions reductions were estimated by analysis year for these paving improvements.

## Results and Conclusions

**PM<sub>10</sub>:** Since the completion and conformity determination of the 2022-2026 YMPO TIP and 2022-2045 LRTP, EPA rescinded its previously issued clean data determination (CDD) for the Yuma, Arizona “Moderate” nonattainment area for the 1987 24-hour NAAQS for PM<sub>10</sub>. This was effective June 17, 2022. In addition to rescinding the CDD, the EPA also did an inadequacy finding for the previously submitted budgets, effective June 16, 2022 (87 FR 29830). As a result, the proposed 2022-2045 LRTP Amendment #1 determines conformity for PM<sub>10</sub> using interim emission test as outlined in 40 CFR 93.119, instead of the past maintenance plan Motor Vehicle Emissions Budgets (MVEBs).

**Ozone:** No budgets are currently established for the Yuma 2015 ozone nonattainment area. Since a budget has not been set for ozone, the baseline year test was used to demonstrate conformity. The baseline year is defined as the most recent year for which EPA’s Air Emissions Reporting Rule requires submission of on-road mobile source emissions inventories as of the effective date of designation, which is 2017 for the 2015 8-hour ozone NAAQS.

Results from the PM<sub>10</sub> interim emissions test (Build Vs No-Build) analysis are summarized in Table 10.1.

Emissions estimates from MOVES3.0.1 were determined for ozone for the years 2025, 2035, and 2045 and compared to the baseline year of 2017. Ozone is modeled for its precursors: NO<sub>x</sub> and VOC. **Table 10.2** shows the mobile source emissions results for the baseline year 2017 and analysis years for NO<sub>x</sub> and VOC.

**Table 10.1. Motor Vehicle Emissions Build Vs No-Build Comparison for PM<sub>10</sub>**

Analysis Year	PM <sub>10</sub> Tons per Year (tpy) No Build Scenario	PM <sub>10</sub> Tons per Year (tpy) Build Scenario	Annual Reduction (tpy)	Total Adjusted PM <sub>10</sub> (tpy) No Build Scenario	Total Adjusted PM <sub>10</sub> (tpy) Build Scenario
2025	8,809.2	8,807.6	8.79	8,800.4	8,798.8
2035	9,016.9	9,003.3	8.79	9,008.1	8,994.5
2045	9,227.2	9,202.2	8.79	9,218.4	9,193.4

**Table 10.2. NO<sub>x</sub> and VOC Emissions Comparison to 2017 Baseline Year Results**

Budget Year	NO <sub>x</sub> Tons per Year (tpy)	NO <sub>x</sub> 2017 Baseline Year (tpy)	VOC Tons per Year (tpy)	VOC 2017 Baseline Year (tpy)
2025	1.684	3.759	3.174	5.204
2035	1.183	3.759	2.205	5.204
2045	1.220	3.759	2.206	5.204

The air quality analysis performed demonstrates conformity between the 2022-2026 Transportation Improvement Program, the 2022 - 2045 Long-Range Transportation Plan Amendment #1, and the interim emissions test (Build Vs No-Build). As illustrated in Tables 12 and 15, the analysis indicates that the projected emissions levels based on projects contained in the YMPO LRTP Update 2022-2045 Amendment #1 meet the applicable conformity tests. Therefore, it is the determination of this analysis that this plan conforms under the 1987 PM<sub>10</sub> and the 2015 8-hour ozone National Ambient Air Quality Standards.