

FTIP ID# (required) RIV071254**TCWG Consideration Date** 10/28/25**Project Description** *(clearly describe project)*

The City of Indio (City), in cooperation with the California Department of Transportation (Caltrans) and, in cooperation with the County of Riverside (County) and the City of Indio (City), proposes to reconstruct and widen Monroe Street at Interstate 10 (I-10) to improve the operational performance of the Monroe Street interchange.

The project site is centrally located within the City of Indio at the crossroad of Interstate 10, Monroe Street, and the Coachella Valley Storm water Channel. The Monroe Street interchange is located on I-10 at Post Mile (PM) R54.7, between PM R53.9, approximately 2 miles east of the Jefferson Street interchange and PM R55.5, approximately 1 mile west of the Jackson Street interchange. The current I-10/Monroe Street interchange configuration is a diamond-type interchange, with signal control at the on- and off-ramp termini. The project would reconstruct Monroe Street at the interchange, including the existing on- and off-ramps, the Monroe Street I-10 overcrossing (I-10 OC), and the bridge over the Coachella Valley Stormwater Channel (Channel Bridge). The project proposes to add an auxiliary lane in the eastbound direction between the Monroe Street and Jackson Street interchanges, and acceleration/deceleration lanes at the westbound Monroe Street on- and off-ramps and a deceleration lane at the eastbound Monroe Street off-ramp. The Monroe Street interchange is a major access point for existing development at the interchange area.

Existing. I-10 within the project limits is a 6-lane freeway with 3 mixed-flow lanes in each direction. Monroe Street is a 2-lane, north-south arterial with curbs, a striped median, and a sidewalk on the southbound side (see table below). The current I-10 / Monroe Street interchange is a diamond configuration with signal control at the ramp termini. The Monroe Street Overcrossing (Bridge #56-0611) is a 2-span, 47-foot-wide bridge.

Alternative 2 - Tight Diamond Interchange (TDI) is the Preferred Alternative as identified in the MND/FONSI approved for the Project. This alternative would reconstruct the existing interchange in a tight diamond configuration. Improvements include widening Monroe Street (see table below), the I-10 OC, the Channel Bridge, and the I-10 ramps. Monroe Street at the I-10 OC and Channel Bridge would accommodate 2 through lanes in each direction and 2 left-turn lanes at each ramp intersection for access to I-10. Alternative 2 includes construction of a 6.5-foot-wide sidewalk and 10-foot-wide Class II, on-street bike/Low Speed Electric Vehicle (LSEV) path located on both sides of Monroe Street along the limits of improvement.

NUMBER OF LANES BY ALTERNATIVE & ROAD SEGMENT		
Segment	Number of Lanes	
	Existing / No-Build	Alternative 2
Monroe Street Through Lanes	2	4
Monroe Street Left-Turn Lanes	1	2
Monroe Street West-B0W1d On-Ramp Right	0	1
Monroe Street East-B0W1d On-Ramp Right	1	1
Monroe Street West-B0W1d Off-Ramp Termini	2	3
Monroe Street West-B0W1d On-Ramp	1	2
Monroe Street East-Bound Off-Ramp Termini	2	3
Monroe Street East-Bound On-Ramp	1	2

Build Alternative Features

Ramp Metering: According to the Caltrans Ramp Metering Design Manual (RMDM), dated February 2018, only the westbound I-10 on-ramp is planned for ramp metering. The proposed project includes ramp metering on both the I-10 westbound and eastbound on-ramps with two general purpose lanes per the Caltrans RMDM, without High Occupancy Vehicle Preferential Lane (HOVPL).

Parcel and Right-of-Way Impacts: Alternative 2 would temporarily impact vacant land in the northwest, northeast and southwest quadrants. Alternative 2 would impact planned (currently vacant) development sites north of the interchange along both sides of Monroe Street from the westbound I-10 ramps to Showcase Parkway, and in the southeast quadrant, south of the Coachella Valley Storm water Channel. Right-of-way impacts are anticipated in the northeast and southeast quadrants. Due to the proposed improvements, Alternative 2 would impact sites along both sides of Monroe Street from south of the Coachella Valley Storm water Channel Bridge to Oleander Avenue, including minimum impacts to two gas stations, 76 Oil and Shell, along southbound Monroe Street in the southwest quadrant. The Coachella Valley Storm water Channel would also require temporary right-of-way impacts due to new bridge construction, pier protection construction, and channel lining. Coordination with CVWD would be required throughout the project.

Auxiliary Lane: Alternative 2 includes an auxiliary lane in the eastbound direction between the Monroe Street on-ramp and the Jackson Street off-ramp. The auxiliary lane is approximately 2,650 feet long as measured from the on- and off-ramp convergent and divergent points parallel to I-10. The auxiliary lane is comprised of one standard 12-foot-wide lane with one standard 10-foot-wide shoulder.

Monroe Street On-Ramp Acceleration Lane and Off-Ramp Deceleration Lane: Alternative 2 includes acceleration and deceleration lanes at the westbound on- and off-ramps to improve traffic operations and to meet Caltrans ramp metering requirements. From the ramp convergence point, the westbound Monroe Street on-ramp acceleration lane length is 1,000 feet long parallel to I-10. From the ramp divergence point east, the westbound Monroe Street off-ramp deceleration lane length is 1,300 feet long parallel to I-10. Alternative 2 also includes an eastbound off-ramp deceleration lane at Monroe Street. From the ramp divergence point west, the eastbound Monroe Street off-ramp deceleration lane length is 600-feet long parallel to I-10.

CV Link: Alternative 2 would require realignment of CVAG's planned CV Link multiuse trail within the project limits to accommodate the widening of Monroe Street and provide the minimum vertical undercrossing clearance.

The Final Environmental Document (FED – MND/FONSI) for the proposed project was approved by Caltrans on December 7, 2020. Alternative 2 was chosen as the preferred alternative. As part of the Plans, Specifications, and Estimates (PS&E) phase, minor design modifications have been identified that were not accounted for in the approved FED. The proposed modifications include and are being analyzed through a Revalidation for the project:

- **On- and Off-Ramp Realignment:** Horizontal realignment of the westbound on- and offramps to eliminate the nonstandard superelevation transitions;

- **Elimination of Retaining Walls:** The original design included retaining walls south of and along the eastbound on- and off-ramps; however, the project now proposes grading at a 2:1 slope to eliminate the retaining walls;

- **Relocation of Decanting Site:** The proposed grading along the eastbound on-ramp would impact an existing Caltrans stormwater decanting site; thus, the design modifications include shifting the decanting site approximately 200 feet to the east. The decanting site would also be improved to allow for a larger storage volume of materials (stormwater liquids and solids) generated from the maintenance of

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- **Bikeway Improvements:** Upgrading the proposed 10-foot Class II bike lane to a 10-foot Class IV Bikeway, or "Cycle Track," which includes barriers to separate bicycle use from other modes of travel;
- **Roadway Widening:** To accommodate the proposed Class IV Bikeway curb barriers, the proposed modifications include a 16-foot roadway widening of Monroe Street and associated grading and pavement resurfacing;
- **Extension of Project Limits:** An approximately 200-foot extension of the project limits to the south within paved roadway right-of-way is proposed to extend the Class IV Bikeway along Monroe Street to Oleander Avenue; and
- **Maintenance Road:** A new maintenance road is proposed along the northern bank of the Coachella Valley Stormwater Channel (CVSC) to provide the Coachella Valley Water District (CVWD) with maintenance access to the CVSC.
- **Drainage Facilities:** There is an existing drainage outlet structure along the southerly side of the CVSC. This drainage outlet structure would be upsized to accommodate existing and future regional stormwater flows from the south.

Type of Project (use Table 1 on instruction sheet)
Reconfigure existing interchange

County Riverside	Narrative Location/Route & Postmiles 08-RIV-I 0-R54.2/R55.6
	Caltrans Projects – EA# 0K730

Lead Agency: California Department of Transportation

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Hot Spot Pollutant of Concern (check one or both) **PM2.5** ☒ **PM10** ☒

Federal Action for which Project-Level PM Conformity is Needed (check appropriate box)

Categorical Exclusion (NEPA)	EA or Draft EIS	FONSI or Final EIS	X PS&E or Construction	Other
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Scheduled Date of Federal Action: 2028

NEPA Assignment – Project Type (check appropriate box)

Exempt	Section 326 –Categorical Exemption	X Section 327 – Non- Categorical Exemption
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Current Programming Dates (as appropriate)

	PE/Environmental	ENG	ROW	CON
Start	01/31/2018	04/14/2021	06/29/2022	06/01/2026
End	12/18/2020	02/20/2026	12/20/2025	05/21/2028

Project Purpose and Need (Summary): *(attach additional sheets as necessary)*

The purpose of this project is to:

- Increase capacity at the I-10/Monroe Street interchange to accommodate the forecast travel demand for the 2048 design year within the City of Indio;
- Accommodate multimodal travel consistent with the City of Indio's *General Plan* and regional plans; and Improve operations by addressing existing interchange geometric deficiencies that include inadequate shoulder width; nonstandard curves, cross-falls, and profile grades; and seismically deficient and scour susceptible bridges over I-10 and Whitewater River. The project addresses the following needs, transportation deficiencies and problems:
- The existing interchange and associated intersections are expected to operate at unacceptable level of service by year 2048 due to forecasted growth in traffic volumes in relation to the current capacity of the interchange;
- Existing gaps in pedestrian and bicycle infrastructure across the interchange break the multi-modal connection between communities and businesses on either side of I-10; and
- Without the proposed improvements, and with anticipated daily traffic growth, the existing Monroe Street and corresponding I-10 ramps will experience increased delays and diminished operations within the interchange.

Surrounding Land Use/Traffic Generators *(especially effect on diesel traffic)*

Light industrial and commercial developments adjacent to the interchange generate both auto and truck traffic. Residential developments near the intersection also generate auto traffic. The area south of I-10 is substantially built out, but the interchange is on the northern edge of the urban area, and undeveloped lands to the north of I-10 adjacent to Monroe Street will likely be developed in the future, increasing the volume of vehicles on Monroe Street and on the I-10 ramps.

Opening Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility

Based on traffic counts in 2018, truck percentages on the Monroe Street and Jackson Street Overpasses during morning and evening peak hours range from 1% to 2%; percentages during off-peak hours are expected to be slightly higher than during the peak hours. Average daily truck traffic on Interstate 10 in the project area is about 27 percent of total vehicle volumes (Caltrans, 2018, 2016 Traffic Volumes on California State Highways), and this percentage is not expected to increase due to the project. Truck percentages in 2028 are expected to be similar to 2016 truck percentages. **PeMS data (where detectors were healthy) was reviewed to verify that traffic volumes in the study area had not changed significantly since the counts were collected in 2018. Where PeMS detectors were not healthy, traffic data from Caltrans traffic count census data was reviewed. In general, traffic counts are not significantly different and truck volumes are consistent with previous counts utilized in the study. The project does not generate trips so No-Build and Build vehicle volumes are the same.**

OPENING YEAR (2028) AM PEAK HOUR INTERSECTION OPERATIONS

Study Intersection		No Build Alternative		Build Alternative 2	
		Delay	LOS	Delay	LOS
1	Monroe Street/Avenue 42	29	C	29	C
2	Monroe Street/Showcase Parkway	36	D	8	A
3	Monroe Street/I- IO Westbound Ramps	41	D	18	B
4	Monroe Street/I-IO Eastbound Ramps	18	B	14	B
5	Monroe Street/Oleander Avenue	12	B	12	B
6	Monroe Street/Avenue 44	21	C	20	B
7	Jackson Street/I-10 Westbound Ramps	9	A	9	A
8	Jackson Street/I-10 Eastbound Ramps	21	C	20	B
9	Jefferson Street/I-IO Westbound Ramps	6	A	6	A
10	Jefferson Street/I-10 Eastbound Ramps	9	A	9	A

Notes: 1. V/C ratio greater than 1.0 is consider LOS F.
 2. Bold font indicates unacceptable operations.
 Source: Fehr & Peers, 2019.

OPENING YEAR (2028) PM PEAK HOUR INTERSECTION OPERATIONS

Study Intersection		No Build Alternative		Build Alternative 2	
		Delay	LOS	Delay	LOS
1	Monroe Street/Avenue 42	25	C	26	C
2	Monroe Street/Showcase Parkway	9	A	9	A
3	Monroe Street/I-IO Westbound Ramps	19	B	17	B
4	Monroe Street/I-IO Eastbound Ramps	40	D	15	B
5	Monroe Street/Oleander Avenue	34	C	14	B
6	Monroe Street/Avenue 44	87	F	31	C
7	Jackson Street/I-10 Westbound Ramps	6	A	6	A
8	Jackson Street/I-10 Eastbound Ramps	94	F	90	F
9	Jefferson Street/I-IO Westbound Ramps	5	A	5	A
10	Jefferson Street/I-10 Eastbound Ramps	12	B	12	B

Notes: 1. V/C ratio greater than 1.0 is consider LOS F.
 2. Bold font indicates unacceptable operations.
 Source: Fehr & Peers, 2019.

OPENING YEAR (2028) ROAD SEGMENT AVERAGE DAILY TRAFFIC	
Eastbound Road Segment	Opening Year (2028)
Mainline Between Jefferson Street Ramps	52,920
Jefferson Street On-Ramp	2,880
Jefferson Street On-Ramp to Monroe Street Off-Ramp	42,690
Monroe Street Off-Ramp	6,400
Monroe Street On-Ramp	3,710
Monroe Street On-Ramp to Jackson Street Off-Ramp	39,990
Jackson Street Off-Ramp	6,110
Jackson Street On-Ramp	2,710
Jackson Street On-Ramp to Golf Center Parkway Off-Ramp	36,600
Golf Center Parkway Off-Ramp	6,070
Mainline East of Golf Center Parkway Off-Ramp	34,910
Westbound Road Segment	
Mainline Between Jefferson Street Ramps	39,160
Jefferson Street On-Ramp	6,070
Jefferson Street On-Ramp to Monroe Street Off-Ramp	41,450
Monroe Street Off-Ramp	2,670
Monroe Street On-Ramp	6,410
Monroe Street On-Ramp to Jackson Street Off-Ramp	44,140
Jackson Street Off-Ramp	3,610
Jackson Street On-Ramp	6,280
Jackson Street On-Ramp to Golf Center Parkway Off-Ramp	47,370
Golf Center Parkway Off-Ramp	4,090
Mainline East of Golf Center Parkway Off-Ramp	53,240
Overcrossing	
Monroe Street	29,520
Jackson Street	25,100

OPENING YEAR (2028) FREEWAY PEAK-HOUR TRAFFIC				
Freeway Segment	Opening Year			
	Eastbound		Westbound	
	AM	PM	AM	PM
Between Jefferson Street Ramps	3,140	3,770	3,710	3,710
Jefferson Street On-Ramp to Monroe Street Off-Ramp	3,360	4,040	4,160	3,960
Monroe Street On-Ramp to Jackson Street Off-Ramp	3,160	3,740	3,670	3,860
Jackson Street On-Ramp to Golf Center Parkway Off-Ramp	2,900	3,400	3,090	3,580

RTP Horizon Year / Design Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility

Based on 2018 traffic counts, truck volumes on the Monroe Street and Jackson Street Overpasses during morning and evening peak hours range from 1 % to 2%; percentages during off-peak hours are expected to be slightly higher than during the peak hours. Average daily truck traffic on Interstate 10 in the project area is about 27 percent of total vehicle volumes (Caltrans, 2018, *2016 Traffic Volumes on California State Highways*), but this percentage is not expected to increase due to the project. Truck percentages in 2048 are expected to be similar to 2016 truck percentages. The project does not generate trips so No-Build/Build truck volumes are the same.

DESIGN YEAR (2048) AM PEAK HOUR INTERSECTION OPERATIONS

Study Intersection		No Build Alternative		Build Alternative 2	
		Delay	LOS	Delay	LOS
1	Monroe Street/Avenue 42	256	F	31	C
2	Monroe Street/Showcase Parkway	119	F	12	B
3	Monroe Street/I-10 Westbound Ramps	164	F	19	B
4	Monroe Street/I-10 Eastbound Ramps	121	F	17	B
5	Monroe Street/Oleander Avenue	80	E	21	C
6	Monroe Street/Avenue 44	125	F	25	C
7	Jackson Street/I-10 Westbound Ramps	45	D	45	D
8	Jackson Street/I-10 Eastbound Ramps	87	F	82	F
9	Jefferson Street/I-10 Westbound Ramps	11	B	6	A
10	Jefferson Street/I-10 Eastbound Ramps	10	A	9	A

Notes: 1. V/C ratio greater than 1.0 is consider LOS F.
 2. Bold font indicates unacceptable operations.
 Source: Fehr & Peers, 2019.

DESIGN YEAR (2048) PM PEAK HOUR INTERSECTION OPERATIONS

Study Intersection		No Build Alternative		Build Alternative 2	
		Delay	LOS	Delay	LOS
1	Monroe Street/Avenue 42	234	F	33	C
2	Monroe Street/Showcase Parkway	117	F	11	B
3	Monroe Street/I-10 Westbound Ramps	181	F	17	B
4	Monroe Street/I-10 Eastbound Ramps	166	F	19	B
5	Monroe Street/Oleander Avenue	51	D	18	B
6	Monroe Street/Avenue 44	196	F	100	F
7	Jackson Street/I-10 Westbound Ramps	95	F	91	F
8	Jackson Street/I-10 Eastbound Ramps	215	F	204	F
9	Jefferson Street/I-10 Westbound Ramps	5	A	5	A
10	Jefferson Street/I-10 Eastbound Ramps	14	B	13	B

Notes: 1. V/C ratio greater than 1.0 is consider LOS F.
 2. Bold font indicates unacceptable operations.
 Source: Fehr & Peers, 2019.

OPENING YEAR (2028) ROAD SEGMENT AVERAGE DAILY TRAFFIC				
Eastbound Road Segment		Opening Year (2028)		
Mainline Between Jefferson Street Ramps		82,520		
Jefferson Street On-Ramp		4,160		
Jefferson Street On-Ramp to Monroe Street Off-Ramp		73,580		
Monroe Street Off-Ramp		8,290		
Monroe Street On-Ramp		7,440		
Monroe Street On-Ramp to Jackson Street Off-Ramp		72,740		
Jackson Street Off-Ramp		8,370		
Jackson Street On-Ramp		3,420		
Jackson Street On-Ramp to Golf Center Parkway Off-Ramp		67,790		
Golf Center Parkway Off-Ramp		7,300		
Mainline East of Golf Center Parkway Off-Ramp		72,190		
Westbound Road Segment				
Mainline Between Jefferson Street Ramps		80,730		
Jefferson Street On-Ramp		7,300		
Jefferson Street On-Ramp to Monroe Street Off-Ramp		74,730		
Monroe Street Off-Ramp		3,460		
Monroe Street On-Ramp		7,400		
Monroe Street On-Ramp to Jackson Street Off-Ramp		81,390		
Jackson Street Off-Ramp		7,190		
Jackson Street On-Ramp		6,950		
Jackson Street On-Ramp to Golf Center Parkway Off-Ramp		81,670		
Golf Center Parkway Off-Ramp		5,300		
Mainline East of Golf Center Parkway Off-Ramp		87,170		
Overcrossing				
Monroe Street		38,600		
Jackson Street		33,860		

OPENING YEAR (2028) FREEWAY PEAK-HOUR TRAFFIC				
Freeway Segment	Opening Year			
	Eastbound		Westbound	
	AM	PM	AM	PM
Between Jefferson Street Ramps	5,050	5,850	5,520	6,220
Jefferson Street On-Ramp to Monroe Street Off-Ramp	5,700	6,750	6,020	6,490
Monroe Street On-Ramp to Jackson Street Off-Ramp	5,240	6,110	5,700	6,750
Jackson Street On-Ramp to Golf Center Parkway Off-Ramp	4,890	5,610	4,900	6,120

RTP Horizon Year / Design Year: If facility is an interchange (s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT

Based on 2018 traffic counts, truck volumes on the Monroe Street and Jackson Street Overpasses during morning and evening peak hours range from 1 % to 2%; percentages during off-peak hours are expected to be slightly higher than during the peak hours. Average daily truck traffic on Interstate 10 in the project area is about 27 percent of total vehicle volumes (Caltrans, 2018, *2016 Traffic Volumes on California State Highways*), but this percentage is not expected to increase due to the project. Truck percentages in 2048 are expected to be similar to 2016 truck percentages. **The most recent version of the RIVCOM model was also reviewed which reflects the most recent version of the RTP/SCS. There are no significant changes in network that would result in a significant change in the traffic volumes in comparison to what was assumed in the original study.** The project does not generate trips so No-Build/Build truck volumes are the same.

Describe potential traffic redistribution effects of congestion relief *(impact on other facilities)*

The project would not generate new vehicle trips and would not increase overall vehicle volumes or truck trips. By reducing congestion, the project could encourage some motorists to slightly alter their normal commute route and might encourage some commercial and industrial uses to slightly alter their normal routes for obtaining raw materials and delivering finished goods.

Comments/Explanation/Details *(attach additional sheets as necessary)*

The project is not a Project of Air Quality Concern (40 CFR 93.123(b)(I))

(i) New or expanded highway projects with significant number/increase in diesel vehicles?

- ✓ Not a new highway project
- ✓ Minor interchange improvements to relieve congestion (reducing delay and air pollutant emissions)
- ✓ No substantial change in traffic volumes or truck percentages

(ii) Affects intersections at LOS D, E, or F with a significant number of diesel vehicles?

- ✓ Improves operations at local intersections with existing/projected LOS of D, E, and F, but these intersections do not have a significant number or percentage of diesel vehicles.

(iii) New bus and rail terminals and transfer points? - Not Applicable

(iv) Expanded bus and rail terminals and transfer points ? - Not Applicable

(v) Affects areas identified in PM10 or PM2.5 implementation plan as site of violation?

- ✓ Not identified in a PM10 or PM2.5 implementation plan as an area of potential violation

See also Figures 1 and 2 attached.



Figure 1 – Project Area

PM Conformity Hot Spot Analysis – Project Summary for Interagency Consultation

PM Conformity Hot Spot Analysis – Project Summary for Interagency Consultation

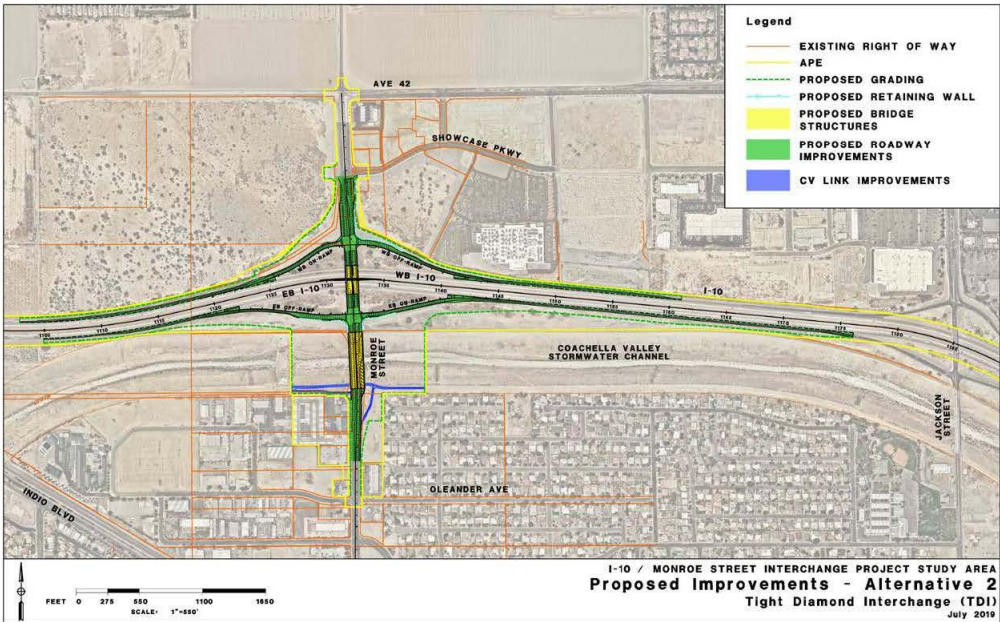


Figure 2 – Alternative 2