



I-10 BROADWAY CURVE IMPROVEMENT PROJECT NEWS from the CURVE

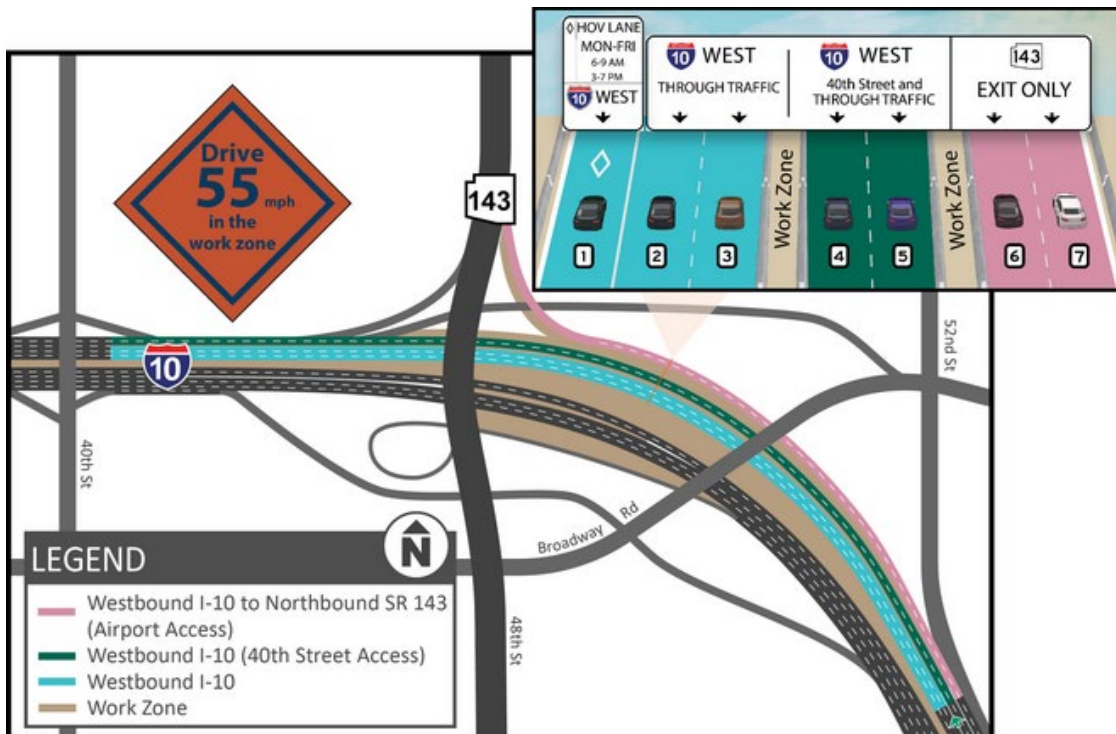
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November 2023 Monthly Newsletter

New Interstate 10 lane configurations

If you're driving on westbound I-10 between Broadway Road and 40th Street this week, watch for a new lane configuration that went into place Monday, November 20. The existing lanes of westbound I-10 between Broadway Road and 40th Street are now split for approximately a mile and a half with roadway barriers and work zones in between. Drivers wishing to exit onto northbound State Route 143 should select lanes six or seven as shown below. Drivers wishing to exit onto 40th Street should select lanes four or five. Through traffic can use lanes one through five. Refer to image below. For more information on the new westbound I-10 lane configuration, visit i10broadwaycurve.com/traffic-shift/.



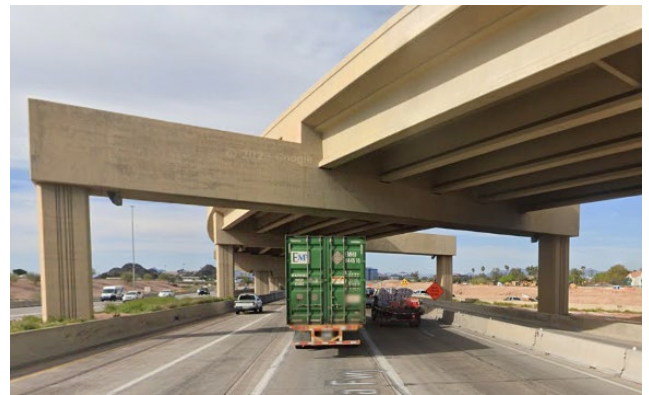
In October, crews split the existing lanes of eastbound I-10 at 48th Street. The lanes are split for approximately a half mile before merging back together near Broadway Road. There is a roadway barrier and work zone in between the split lanes. Drivers wishing to exit onto US 60 are encouraged to move into the right three lanes before 48th Street.

These temporary lane splits will reduce the need for full freeway closures and will allow crews to complete constructing the new bridges that will eventually connect SR 143 to I-10. Please remember to pay attention and drive 55 mph through the work zone to keep construction crews and motorists safe as they adjust to these new configurations.

State Route 143 Straddle Bents

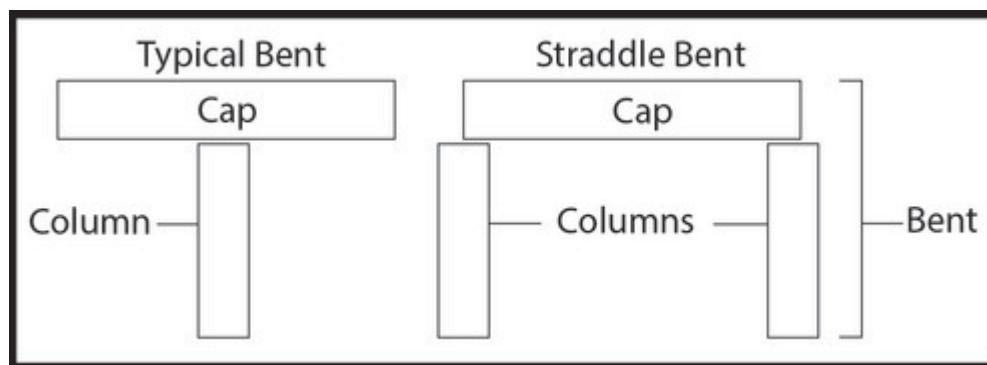
With the eastbound I-10 lane split in place, motorists are now driving under a new structure. This structure is called a straddle bent. When complete, straddle bents look like huge concrete soccer goals.

Want to know where you can see an already existing straddle bent? Next time you drive westbound on I-10, as you pass the US 60 interchange, you'll drive under two straddle bents that were constructed more than 20 years ago to carry the I-10 and US 60 high-occupancy vehicle (HOV) traffic, as seen in the image shown to the right from Google Earth.



In construction, a “bent” refers to an intermediate support that is comprised of a column (the vertical member) and a cap (the flat horizontal member), which sits on top of a column. Each bent supports the bridge’s girders and deck, which is the part of the bridge on which vehicles drive. When constructors don’t have to worry about traffic below a structure, they can erect a column and construct a cap on top.

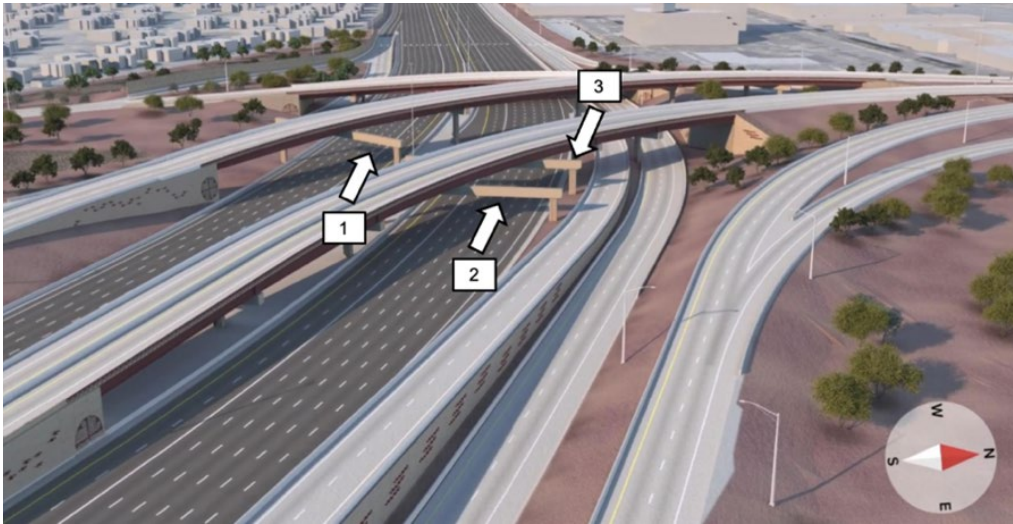
Sometimes, factors of the new bridge crossing may require the use of special bents called “straddle bents.” New columns are installed on either side of the roadway beneath the new bridge crossing. Then a cap is constructed on top of these new columns to span or “straddle” the roadway beneath it. The illustration below shows the difference between a typical bent and a straddle bent.



The new straddle bent over eastbound I-10 is part of the substructure that will support the new bridge connecting southbound SR 143 to the eastbound Collector-Distributor road.



Eastbound I-10 motorists drive under a partially built straddle bent between 48th Street and Broadway Road.



As seen in the image to the left, there will be a total of three straddle bents at the SR 143/I-10 interchange. Two of the three straddle bents will support the bridge for the HOV direct connections between SR 143 and I-10.

Western Canal multiuse bridge update



In October, crews placed the bridge trusses for the Western Canal multiuse bridge over I-10. The truss that spans over eastbound I-10 is about 177 feet long and weighs approximately 140,000 pounds. The other truss that spans over westbound I-10 is about 155 feet long and weighs approximately 100,000 pounds.

The truss sections took about 24 weeks to fabricate and paint. Oversized-load heavy haulers delivered each truss section in three individual pieces that crews then assembled on site to make each full truss span. Then, under two separate full closures of I-10, crews lifted up and set each truss section into their final positions over I-10.

With the bridge trusses in place for the multiuse bridge near the Western Canal, crews will next begin constructing the bridge deck and connecting the ramps leading up to the crossing.



A crane picked up the truss section of the multiuse bridge near the Western Canal and set it over I-10 on Saturday, Oct. 14, during a weekend closure of westbound I-10.

Your Questions Answered

Question: Are the full closures really necessary nearly every weekend?

Answer: The Arizona Department of Transportation (ADOT) schedules closures to avoid peak travel times, which is why most I-10 Broadway Curve Improvement Project closures occur overnight and on weekends. In addition, some work cannot occur with traffic on the roadway, such as setting multiuse bridge trusses and other bridge work, so the weekend full closures are necessary for safety measures. As noted above, the recent traffic shifts will reduce the need for full freeway closures in 2024.

To #StayAheadOfTheCurve, visit the project [website](#) or download the free mobile app, [The Curve](#), before you travel.

You can find answers to other frequently asked questions at <https://i10broadwaycurve.com/faq/>.

Community Office Holiday Hours

The I-10 Broadway Curve Improvement Project community office will be closed for the Thanksgiving holiday beginning at 12 p.m. on Wednesday, Nov. 22, and will reopen at 8 a.m. on Monday, Nov. 27. Have a safe holiday weekend!

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Construction is scheduled to continue through late 2024. Throughout this project, our goal is to minimize impacts as much as possible and provide timely, accurate information so you can plan

ahead and get to where you need to be. Learn more about the project and engage with the project team in any of these ways:

- **Bilingual Project Information Line:** 602.501.5505
- **Project Website:** i10BroadwayCurve.com
- **Visit or Write:** 3157 E. Elwood St., Suite 100, Phoenix, 85034. The Community Office is open from 8 a.m. to 5 p.m., Monday through Friday, except holidays.
- **Email:** Info@i10BroadwayCurve.com
- **App:** Join more than 13,000 others who want to stay ahead of the curve by downloading our free mobile app, The Curve. You'll find it on the [App Store](#) or [Google Play](#).