

# **SR 155/Lexington Intersection Improvement**

SR 152/Lexington Street Intersection  
Improvement – Kern County



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# Project Description

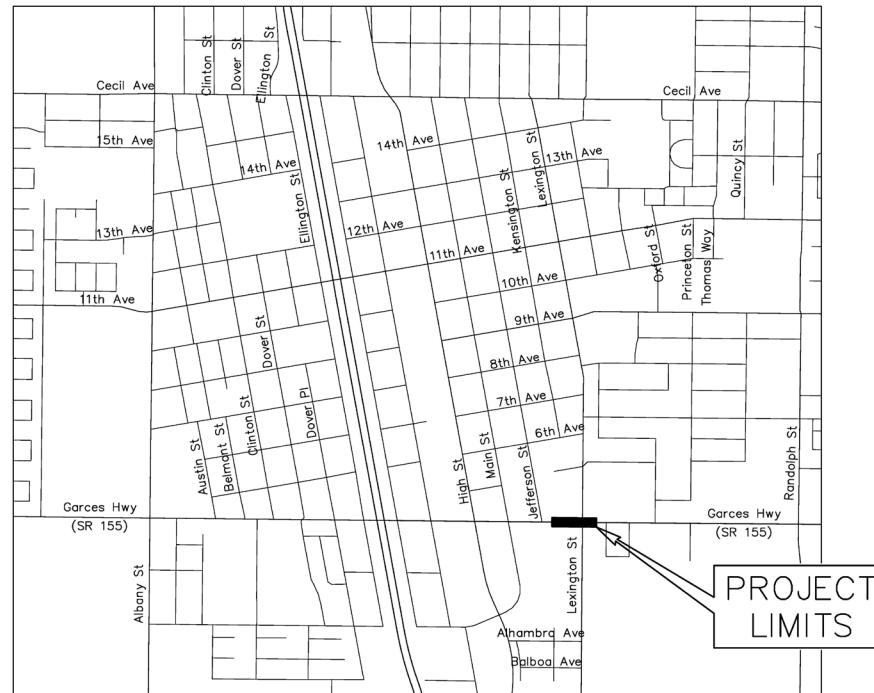
Caltrans EA 06-1A500 – Kern County

- Upgrade intersection facilities at the intersection of SR 155 and Lexington Street in the City of Delano, Kern County.
  - Widen West leg of SR 155 to add dedicated left, through, and right turn lanes in Eastbound (EB) direction, and adjust striping to add same lane configuration for WB.
  - Intersection upgrades at all corners to install traffic signals, lighting, and signal poles with conduit and wiring from the controller to the poles.
  - Pavement widening and resurfacing, ADA ramp construction, and new sidewalk on the Northwest (NW) corner extending west to the existing sidewalk.
- Current configuration is a four-leg unsignalized intersection with stop-controlled access.

# Project Location

## TRAFFIC SIGNAL, LIGHTING & STREET IMPROVEMENT PLANS FOR GARCES HIGHWAY & LEXINGTON STREET

For use in connection with the Standard Plans and Specifications of the  
State of California Department of Transportation dated 2015



# Purpose and Need

- The purpose of this project is to rehabilitate SR 155 within the project limits to bring it up to Resurfacing, Restoration, Rehabilitation (3R) Standards, as well as to signalize the intersection of SR 155 and Lexington St.
- This project is needed to address insufficient intersection control as well as address the existing pavement, which is deteriorated and needs replacing to continue to function.

# Project Listing in the FTIP/CTIPS

- This project is not considered regionally significant; therefore, it does not appear in the Kern Council of Governments (KCOG) 2025 Federal Transportation Improvement Program (FTIP) or the KCOG 2022 Regional Transportation Plan (RTP).

# No Build Project Alternative

- The intersection will remain as a four-legged unsignalized intersection with stop-controlled access.
- AM delay times from Opening Year 2027 to Design Year 2047 will increase by 50 seconds. LOS will degrade from E to F.
- PM delay times from Opening Year 2027 to Design Year 2047 will increase by 71 seconds. LOS will remain at an F grade.

Year	AM Delay Time	PM Delay Time	AM LOS	PM LOS
2027	36	61	E	F
2047	86	132	F	F

# Build Project Alternatives

- Upgrade intersection facilities at the intersection of SR 155 and Lexington Street in Delano, Kern County.
  - Widen entire width of West leg on SR 155 to add dedicated left, through, and right turn lanes to the Eastbound direction, and to better accommodate right turn from SB direction.
  - Adjust striping on East leg of SR 155 to add dedicated left, through, and right turn lanes to the Westbound direction.



# Build Project Alternatives

- AM delay times from Opening Year 2027 to Design Year 2047 will increase by 8 seconds. LOS will remain at a C grade.
- PM delay times from Opening Year 2027 to Design Year 2047 will decrease by 1 second. LOS will remain at a C grade.

Year	AM Delay Time	PM Delay Time	AM LOS	PM LOS
2027	27	33	C	C
2047	35	32	C	C

# Traffic Data

Table 1. No Build, and Build Options

Alternative	Year	AADT	Truck AADT (7%)	AM Delay (s)/LOS	PM Delay (s)/LOS
2027 No Build	Open	18,900	1,323	36/E	61/F
2047 No Build	Design	25,500	1,785	86/F	132/F
2027 Build	Open	18,900	1,323	27/C	33/C
2047 Build	Design	25,500	1,785	35/C	32/C

# Traffic Findings Summary

- Upgrading intersection control from stop-controlled signage to signals will result in significant differences between level of service and delay times.
- Signalization would:
  - Equalize wait times at each leg of intersection
  - Minimize idling times, thus minimizing tailpipe emissions
  - Allow pedestrians and cyclists to safely utilize crossing facilities
- AADT growth in traffic between Open to Traffic and Design Years is due to general growth in the area, not to signalization of the intersection.

# Schedule

- Begin Environmental (M020): 2/09/2021
- Begin PA&ED (M200): 4/15/2022
- Begin Design (M210): 2/09/2021
- Ready to List (M460) RTL: 5/01/2025
- Begin Construction (M600): 06/03/2025

# Project Level Conformity Summary

Caltrans asks that the IAC Group concur that the project is not a Project of Air Quality Concern of Air Quality Concern due to:

- The Build/No Build ADT and Truck ADT for the project are the same for Open to Traffic, and Design Years.
  - Growth in traffic/truck volumes are attributed to anticipated population growth, not new traffic induced by construction of the signalized intersection.
- The Build Alternative would improve safety, equalize wait times, and minimize idling times as opposed to the current stop-controlled configuration.

# Project Level Conformity Summary

Further, the SR155 Project does not meet the criteria for a POAQC as defined in the final rule by 40 CFR 93.123(b)(1).

The SR155 is a non-exempt project that is not a local air quality concern under 40 CFR 93.123(b)(1)(i) and (ii), which states that “Intersection channelization projects, traffic circles or roundabouts, intersection signalization projects at individual intersections, and interchange reconfiguration projects that are designed to improve traffic flow and vehicle speeds, and do not involve any increases in idling. Thus, they would be expected to have a neutral or positive influence on PM emissions.

# Questions?



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