

AIR QUALITY REPORT  
SR 45 (US 41) FROM SR 44 TO MARION COUNTY LINE  
CITRUS COUNTY, FLORIDA

State Project No.: 02010-1537

Work Program No.: 5111574

Federal Aid Project No.: SA-301-5-(9)

August 1994

## SR 45 AIR QUALITY REPORT

The project alternatives were subjected to a graphical Screening Test which makes various conservative worst-case assumptions about the meteorology, traffic, and site conditions. The Screening Test uses these assumptions in the MOBILE4 and CALINE3 models to produce a series of curves which can be used to determine the critical distance. The critical distance is the closest a receptor can be to a given intersection without any chance of a significant air quality impact. The input data and results for the worst intersection, SR 45 and SR 200, are shown below. The Screening Test for Urban Areas was used. All of the data is from the northbound leg of the intersection, so that the worst case is reported in each case.

Alternative	Year	Approach Speed (MPH)	Peak Traffic Volume (VPH)	Critical Distance (Feet)	Closest Receptor (Feet)
No-build	1992	45	604	<10	10
No-build	2018	25	1121	<10	10
Build	1998	35	1126	<10	10
Build	2018	30	2240	<10	10

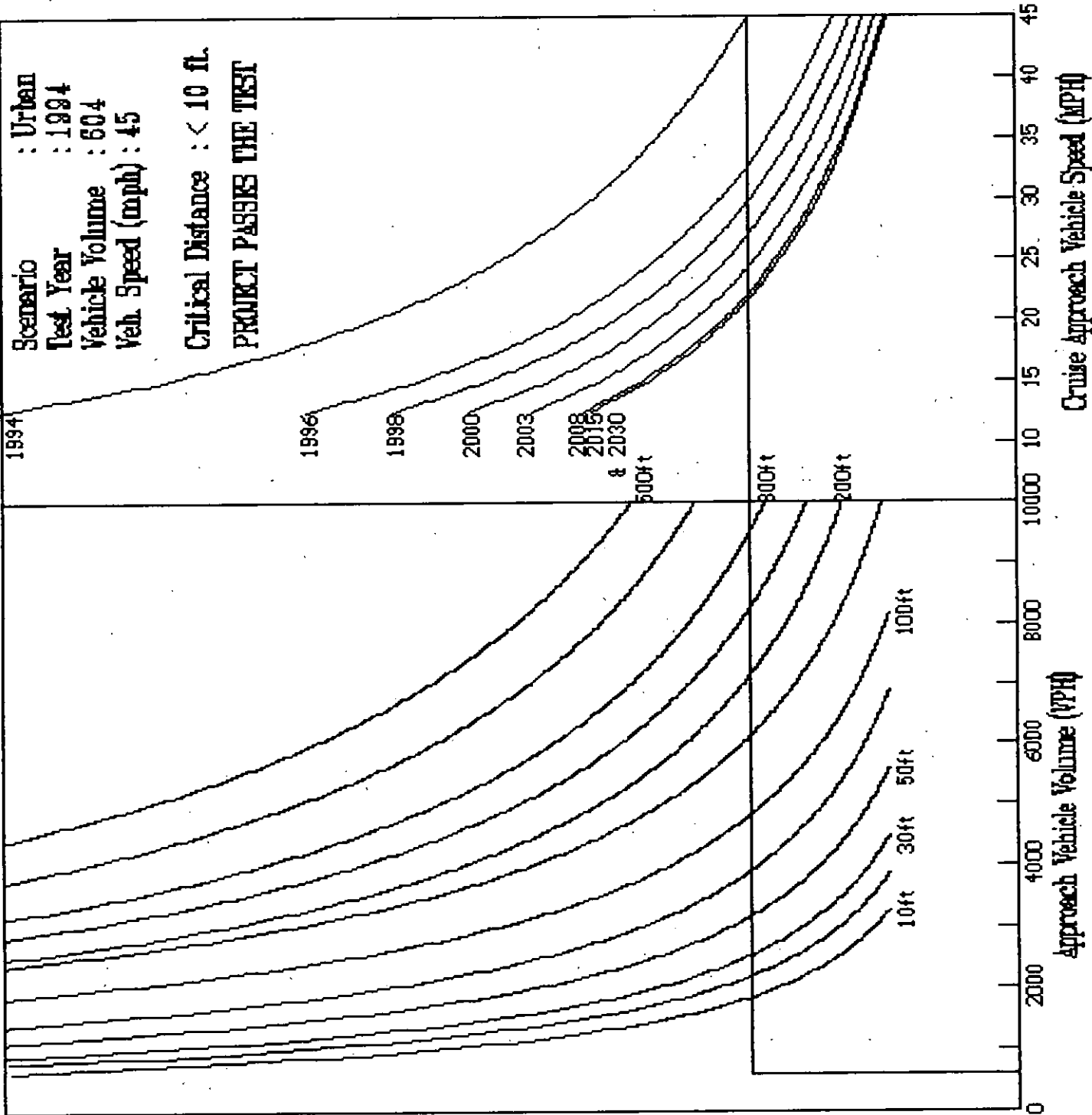
Since the closest receptor is always farther away than the critical distance, this project will not have a significant impact on air quality.

Construction activities will cause minor short-term air quality impacts in the form of dust from earthwork and unpaved roads and smoke from open burning. These impacts will be minimized by adherence to all State and local regulations and to the FDOT Standard Specifications for Road and Bridge Construction.

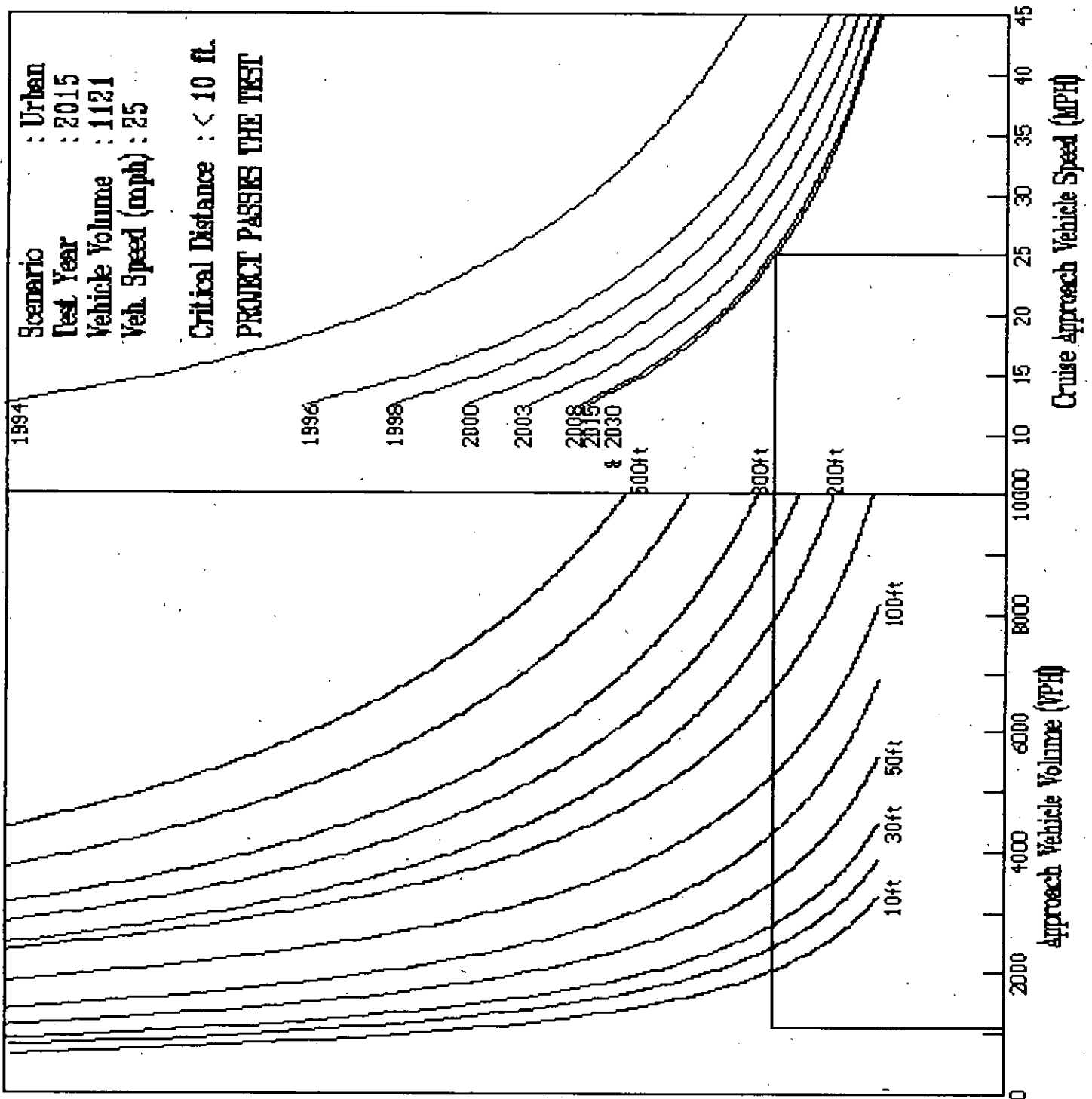
All state and local agencies were provided with an opportunity to comment on this project. There were no adverse comments regarding air quality.

This project is in an area where the State Implementation Plan does not contain any transportation control measures. Therefore, the conformity procedures of 23 CFR 770 do not apply to this project. This project is in conformance with the State Implementation Plan because it will not cause violations of air quality standards and will not interfere with any transportation control measures.

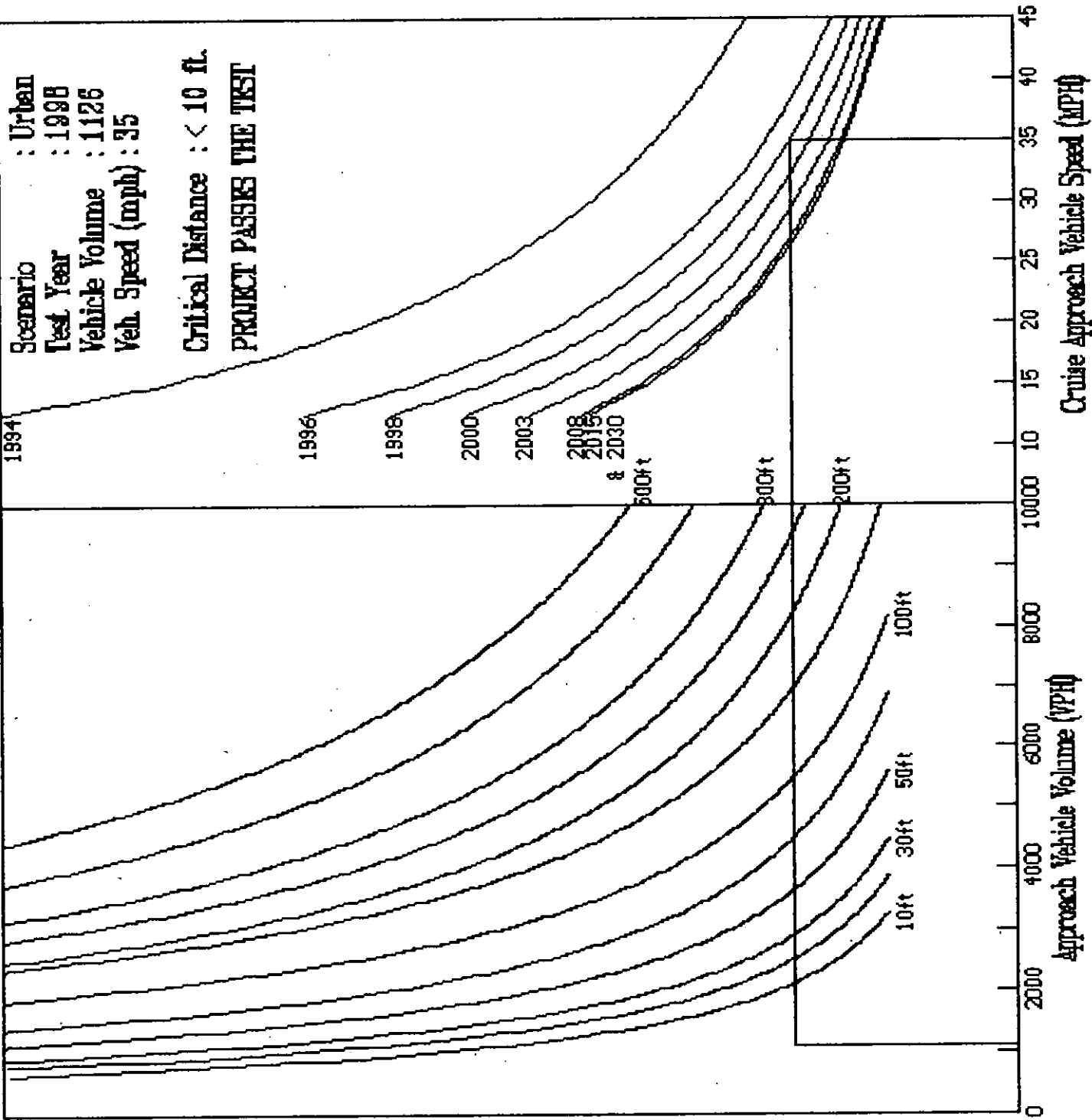
# PIOT Screening Test \*\* Screening Test \*\* Alternative : No build



# FDOT Screening Test \*\* Screening Test \*\* Alternative : No build



# PDOT Screening Test \*\* Screening Test \*\* Alternative : Build



# PROJECT Screening Test \*\* Alternative : Build

