



CITY OF KINGMAN COMMUNICATION TO COUNCIL

TO: Honorable Mayor and City Council

FROM: Robert Petrillo

MEETING DATE: June 16, 2026

AGENDA SUBJECT: Report to the City Council Regarding Weight Limits on Airway Avenue & Heavy Truck Traffic Around Town Due to Construction on I-40

SUMMARY:

Background

At the City Council meeting of May 5, 2026, Councilman Savage requested that the Engineering Department explore the potential need for posting weight limits on Airway Avenue west of Flying Fortress Parkway.

Discussion

Unlike the Flying Fortress Parkway, which is being constructed with a Portland cement concrete pavement (PCCP), the Airway Avenue portion of the project is being constructed with asphaltic concrete (AC, or “asphalt”) pavement. This is due to the much heavier anticipated truck volumes on Flying Fortress Parkway.

In pavement design, the volume of truck traffic is a key determinant in the required thickness of pavements. According to the “Fourth Power Law” the stress imposed on a pavement by just one loaded tractor trailer truck is equivalent to the stress imposed by 9,600 passenger cars. Clearly, the major factor in pavement design is the number of trucks travelling over it.

In the pavement design of the AC pavement being installed on Airway Avenue, the 20-year design average daily traffic was estimated to be 3,300 vehicles per day, 5% of which were assumed to be heavy trucks. Therefore, the Airway Avenue pavement is designed to carry

$3,300 \times 5\% = 165$ trucks per day.

Conclusion

Knowing that the pavement is designed to carry 165 trucks per day, monitoring traffic counts of daily truck volumes on the subject section of Airway Avenue can determine when truck traffic loadings are approaching the limit for which the pavement is designed. At present, truck volumes are not anticipated to be anywhere near 165 trucks per day. However, as future development occurs, truck volumes could increase, warranting further monitoring and the potential need for weight limit posting.

Recommendation

Upon completion of the current paving project, traffic counts should be performed to establish current truck volumes on Airway Avenue. Over time, and as significant new development expected to generate considerable additional truck traffic on Airway Avenue takes place, truck volumes should again be monitored. When truck volumes approach 150 trucks per day, posting of weight restrictions should be considered.

FISCAL IMPACT:

No fiscal impact at this time.

ATTACHMENTS:

[ENG Department Report - Weight Restriction on Air - Final.pptx](#)