# Appendix H: Trip Generation Memo

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# CITY OF COSTA MESA

Department of Public Services/Transportation Services

**INTEROFFICE MEMORANDUM**

REC'D APR 22 2019

**TO:** BARRY CURTIS, ECONOMIC & DEVELOPMENT SERVICES DIRECTOR

**FROM:** JENNIFER ROSALES, TRANSPORTATION SERVICES MANAGER JR

**DATE:** APRIL 22, 2019

**SUBJECT:** 3175 AIRWAY AVENUE TRIP GENERATION

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The following tables summarize the estimated trip generation for the proposed bridge shelter at 3175 Airway Avenue. There are four (4) scenarios, as described below.

**Option 1: The entire project site is 30,000 SF industrial per the ongoing use:**

| Scenario 1<br>Trip Generation | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Use | Generation Rate | Daily | AM Peak | | | PM Peak | | |
| | | | In | Out | Total | In | Out | Total |
| 30 KSF Industrial | ITE Code 110 | 149 | 18 | 3 | 21 | 2 | 17 | 19 |
| | Total | 149 | 18 | 3 | 21 | 2 | 17 | 19 |

Notes:
1. ITE Trip Generation, 10th Edition. Average rates used.

**Option 2: The project site consists of 15,000 SF of industrial with a 30-bed bridge shelter facility:**

| Scenario 2<br>Trip Generation | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Use | Generation Rate | Daily | AM Peak | | | PM Peak | | |
| | | | In | Out | Total | In | Out | Total |
| 15 KSF Industrial | ITE Code 110 | 74 | 9 | 2 | 11 | 1 | 8 | 9 |
| 30-Bed Facility (Shuttle Trips) | From Operations Plan | 18 | 3 | 3 | 6 | 4 | 4 | 8 |
| 30-Bed Facility (Employee Trips) | From Operations Plan | 46 | 15 | 8 | 23 | 8 | 15 | 23 |
| | Total | 138 | 27 | 13 | 40 | 13 | 27 | 40 |

Notes:
1. ITE Trip Generation, 10th Edition. Average rates used.
2. 15 day shift and 8 night shift employees assumed for facility.

**Option 3: The project site consists of 15,000 SF of industrial with a 50-bed bridge shelter facility:**

| Scenario 3<br>Trip Generation | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Use | Generation Rate | Daily | AM Peak | | | PM Peak | | |
| | | | In | Out | Total | In | Out | Total |
| 15 KSF Industrial | ITE Code 110 | 74 | 9 | 2 | 11 | 1 | 8 | 9 |
| 50-Bed Facility (Shuttle Trips) | From Operations Plan | 26 | 4 | 4 | 8 | 6 | 6 | 12 |
| 50-Bed Facility (Employee Trips) | From Operations Plan | 46 | 15 | 8 | 23 | 8 | 15 | 23 |
| | Total | 146 | 28 | 14 | 42 | 15 | 29 | 44 |

Notes:
1. ITE Trip Generation, 10th Edition. Average rates used.
2. 15 day shift and 8 night shift employees assumed for facility.

**Option 4: The project site consists of 15,000 SF of industrial with a 100-bed bridge shelter facility:**

| Scenario 4<br>Trip Generation | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Use | Generation Rate | Daily | AM Peak | | | PM Peak | | |
| | | | In | Out | Total | In | Out | Total |
| 15 KSF Industrial | ITE Code 110 | 74 | 9 | 2 | 11 | 1 | 8 | 9 |
| 100-Bed Facility (Shuttle Trips) | From Operations Plan | 44 | 8 | 8 | 16 | 10 | 10 | 20 |
| 100-Bed Facility (Employee Trips) | From Operations Plan | 70 | 23 | 12 | 35 | 12 | 23 | 35 |
| | Total | 188 | 40 | 22 | 62 | 23 | 41 | 64 |

Notes:
1. ITE Trip Generation, 10th Edition. Average rates used.
2. 23 day shift and 12 night shift employees assumed for facility.

If you have any questions regarding the trip generation estimates, please contact me at (714) 754-5180.

c Elliot Huang, Assistant Engineer
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