

Technical Memorandum No. 3

March 21, 2019

To: Lily Toy

City of Redding

Planning Division

Project:

Dignity Mercy Medical Center

Redding North State Pavilion

From: Russ Wenham, PE, TE, PTOE

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File No.:

Bruce Grove, SHN

C1966MEM007

Subject:

CC:

Vehicle Miles Traveled (VMT) Per Alternative Memorandum



Dignity Health has retained GHD to prepare a Technical Memorandum to identify the Vehicle Miles Traveled (VMT) for each of the following four project alternatives:

- **Proposed Project**
- Existing General Plan and Zoning Project
- Reduced Intensity Project
- Mercy Oaks Project

This memorandum serves as a supplement to the Dignity Mercy Medical Center Redding North State Pavilion Traffic Impact Analysis Report (dated October 2018).

2. **Trip Generation**

Trip generation rates are documented as follows:

- Proposed Project: Traffic Impact Analysis Report, GHD, October 2018.
- Existing General Plan and Zoning Alternative: Technical Memorandum No. 4, GHD, March 13, 2019.
- Reduced Intensity Project Alternative: Technical Memorandum No. 4, GHD, March 13, 2019.
- Mercy Oaks Alternative: Technical Memorandum No. 5, GHD, March 11, 2019.



Table 2.1 presents the trip generation rates for AM and PM peak hours and daily trips for the four alternatives.

Table 2.1 Alternative Trip Generation Summary

Alternative	Daily Trips	AM Peak Hour Trips			PM Peak Hour Trips		
		Total	ln .	Out	Total	In	Out
Proposed Project	4,697	311	245	66	330	79	251
Existing General Plan and Zoning	4,027	323	249	74	455	148	307
Reduced Intensity Project	3,974	263	208	55	279	67	212
Mercy Oaks Alternative	4,697	311	245	66	330	79	251

3. VMT Comparison

To conduct the VMT assessment, GHD utilized the Shasta County Regional Travel Demand Model (SCRTDM). A select zone analysis was conducted for each of the project alternatives using the SCRTDM model whereby all the trips generated by the project were tracked through the transportation system. Each alternative generated a unique VMT based on the number of daily project trips and the location of the alternative.

Table 3.1 presents the VMT summary of the four alternatives.

Table 3.1 VMT Summary

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Alternative	Vehicle Miles Traveled (VMT) (miles)
Proposed Project	23,084
Existing General Plan and Zoning	19,221
Reduced Intensity Project	18,944
Mercy Oaks Alternative	27,376