

MEMORANDUM

To: Justin Gibson, Fire Division Chief: Director of Fire Prevention & Support Services, Chula Vista Fire Department
From: Michael Huff, Principal Fire Protection Planner
Subject: **Village 3 Fire Protection Plan Addendum and Exhibit Updates**
Date: October 27, 2016
Attachment(s): Revised Fire Protection Plan Figure nos. 8, 10, 11, and 12

Item 1. Dudek has evaluated the revised site plan for University Villages, Village 3 and determined that the findings of the approved Fire Protection Plan (FPP) dated December 2014 remain applicable and valid. The site changes do not impact the analysis or results of the FPP. To that end, four figures, numbers 8, 10, 11 and 12, have been updated to reflect the new site plan and are attached for review.

Item 2. Fire Protection Plan ADDENDUM. Section 4.3 of the Village 3 North and portion of Village 4 Fire Protection Plan (prepared by Dudek dated December 2014) is revised as detailed below, to address application of Chapter 7A of the California Building Code and to clarify the Project's fencing requirements.

4.3 STRUCTURE REQUIREMENTS (REVISED OCTOBER 2016)

4.3.1 Ignition-Resistance

Village 3 North and Portion of Village 4 structures will include single family detached, multi-family, light industrial, commercial, and a school. Each of these structures will include the latest wildland urban interface construction methods and materials required by the latest building or fire code (Chapter 7A of the 2013 Building Code and Chapter 5 of the Urban-Wildland Interface Code). While these standards will provide a high level of protection to structures in this development, and should reduce the potential for ordering evacuations in a wildfire, there is no guarantee that compliance with these standards will prevent damage or destruction of structures by fire in all cases.

The application of Chapter 7A for the Village 3 North and portion of Village 4 is based on site specific fire environment and risk analysis presented in the Project's FPP. The potential for wildfire in preserve areas and the resulting ember zone mandates that ignition resistant construction be applied to all structures in the project.

Clarificatoin on fencing materials: Wood or vinyl fencing will be allowed throughout the project with the exception of the fence returns for lots that are adjacent the Preserve and fuel modification zones. These lots will be required to utilize a non-combustible material, such as masonry block, steel, or a fire treated wood for the return portion of the fence.

Please feel free to contact me if you have any questions or require any additional information.

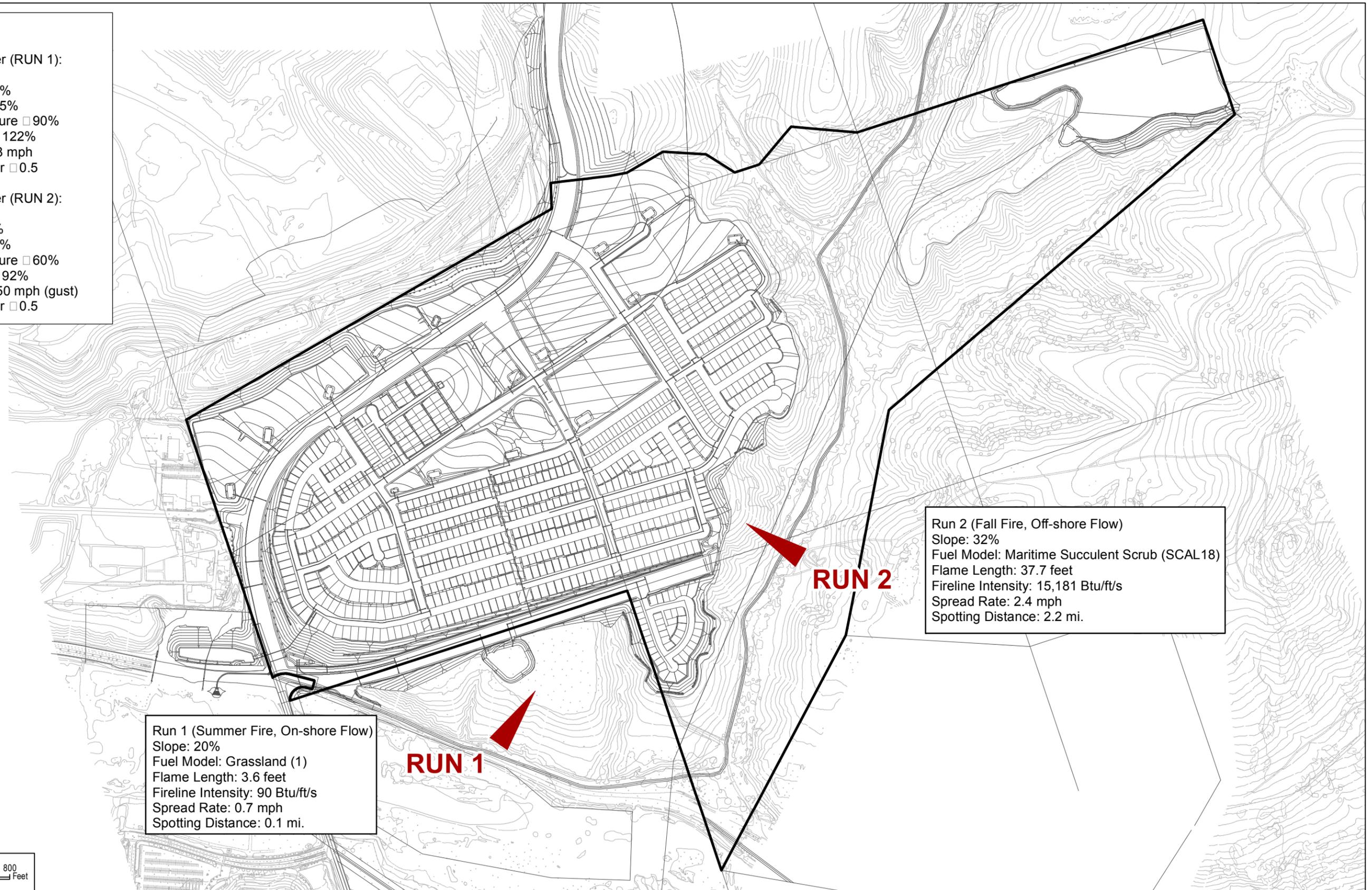
Modeling Inputs:

50th Percentile Weather (RUN 1):

- 1h Fuel Moisture □ 8%
- 10h Fuel Moisture □ 10%
- 100h Fuel Moisture □ 15%
- Live Herbaceous Moisture □ 90%
- Live Woody Moisture □ 122%
- 20-foot Wind Speed □ 8 mph
- Wind Adjustment Factor □ 0.5

97th Percentile Weather (RUN 2):

- 1h Fuel Moisture □ 2%
- 10h Fuel Moisture □ 3%
- 100h Fuel Moisture □ 7%
- Live Herbaceous Moisture □ 60%
- Live Woody Moisture □ 92%
- 20-foot Wind Speed □ 50 mph (gust)
- Wind Adjustment Factor □ 0.5

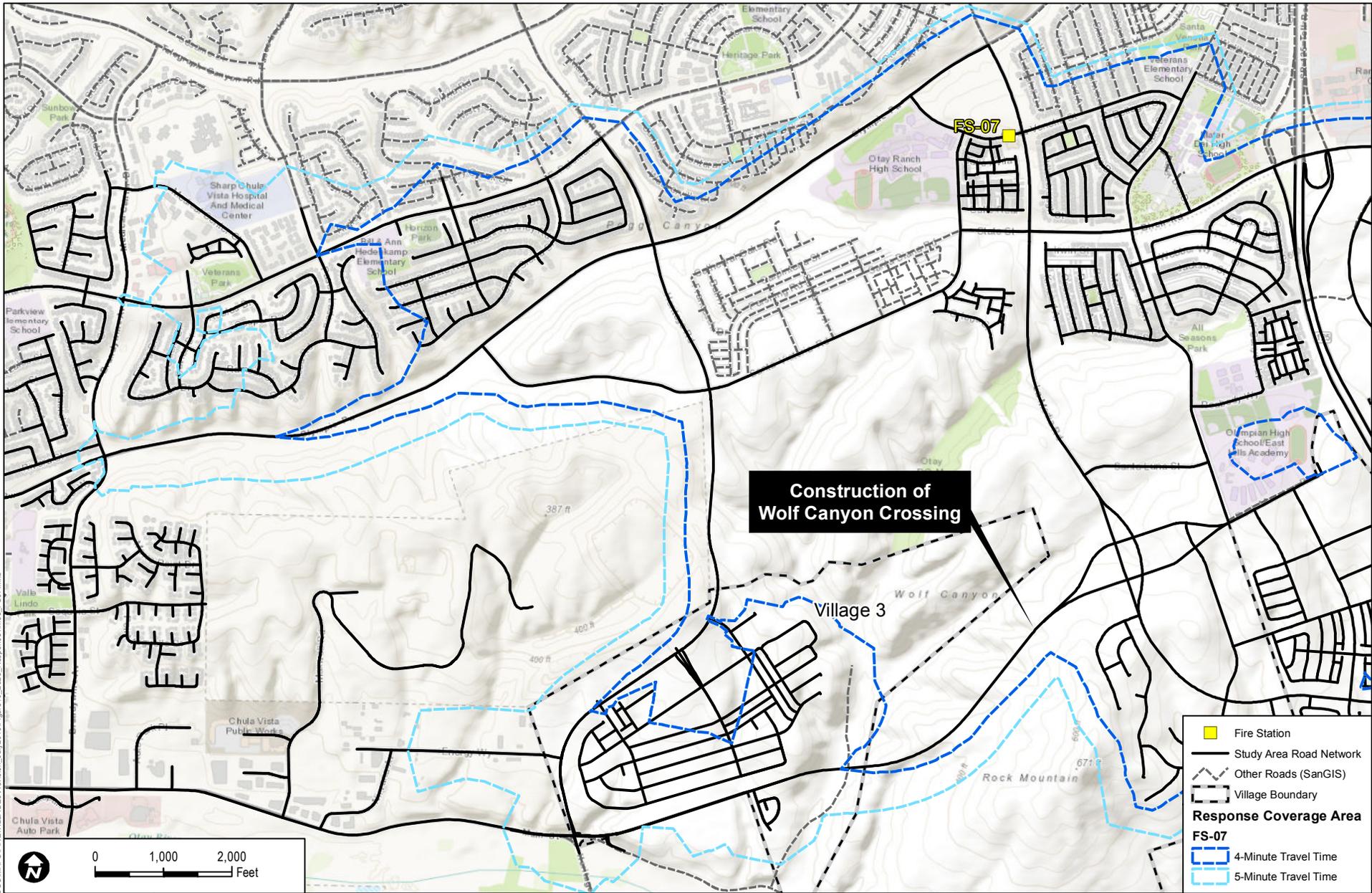


Run 1 (Summer Fire, On-shore Flow)
Slope: 20%
Fuel Model: Grassland (1)
Flame Length: 3.6 feet
Fireline Intensity: 90 Btu/ft/s
Spread Rate: 0.7 mph
Spotting Distance: 0.1 mi.

Run 2 (Fall Fire, Off-shore Flow)
Slope: 32%
Fuel Model: Maritime Succulent Scrub (SCAL18)
Flame Length: 37.7 feet
Fireline Intensity: 15,181 Btu/ft/s
Spread Rate: 2.4 mph
Spotting Distance: 2.2 mi.



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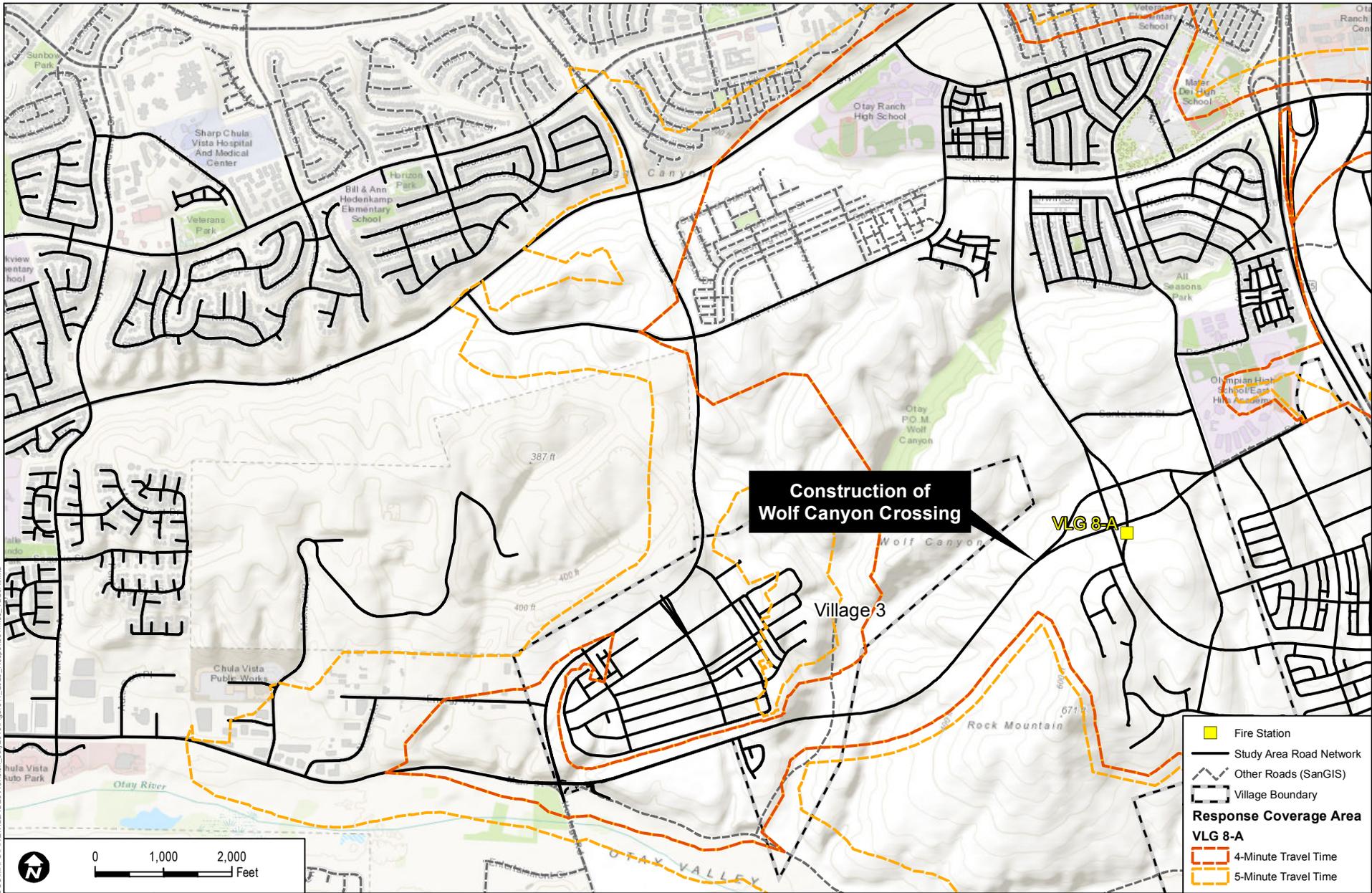
SOURCE: ESRI 2013, SanGIS 2013, Hunsaker 2016, Hale Engineering 2012

Village 3 Proposed 2025 Road Network - FS-07 Fire Station Response Times

FIGURE 10

FIRE PROTECTION PLAN - VILLAGE 3 NORTH AND PORTION OF VILLAGE 4

NOTE: Assumes average roads network speeds of 35 MPH.



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SOURCE: ESRI 2013, SanGIS 2013, Hunsaker 2012, Hale Engineering 2012

Village 3 Proposed 2025 Road Network - VLG 8-A Fire Station Response Times

FIGURE 11

FIRE PROTECTION PLAN - VILLAGE 3 NORTH AND PORTION OF VILLAGE 4

NOTE: Assumes average roads network speeds of 35 MPH.

