# Management of District-Owned Hydrant & Hydrant Related Infrastructure

Los Altos Hills County Fire District March 16, 2021 Commission Meeting





#### Tonight's Discussion

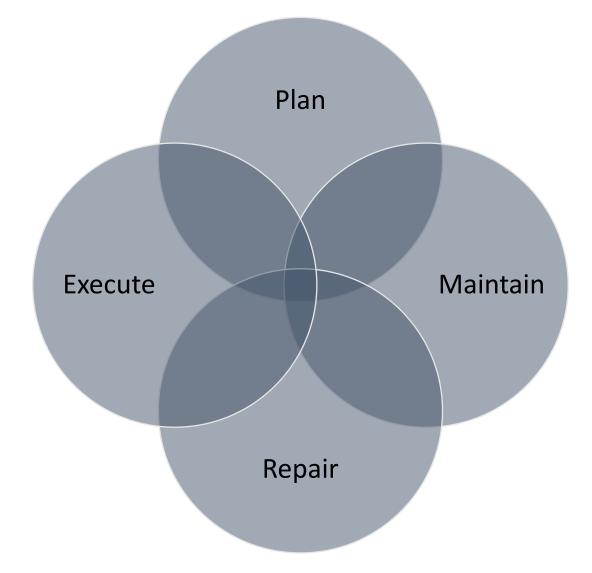
- F&L Role
- History of Hydrants & District
  - 1956 & 1980 Agreement
  - District's responsibilities
- Policy and Procedures
- Fire Hydrant System Activities
- Asset Management
- Discussion





#### F&L's Role

- On-Call Engineering Support
  - Manage engineering projects
  - Assist with policy and Standard Operating Procedure processes
  - Coordinate with partners i.e., Central Fire, PHWD, Cal Water System, LAH Town, and others as requested
  - Assist Commissioners with a studied approach to policies regarding hydrants and hydrant related infrastructure
  - Advise and evaluate asset management

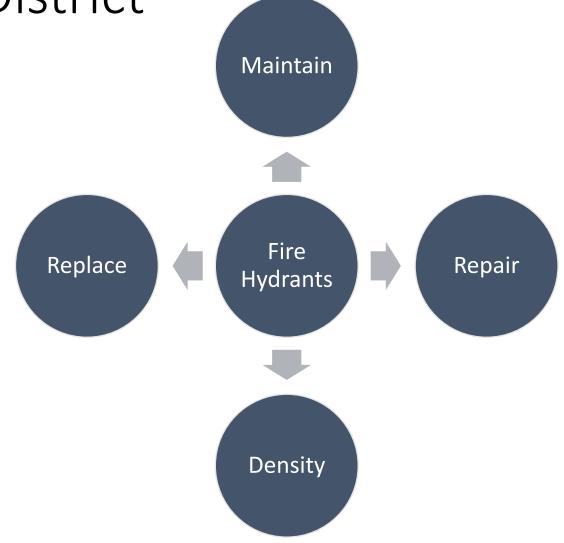






## History of Hydrants & District

- 1956 & 1980 Agreement
- District's Responsibilities
  - Emergency repair
  - Maintenance
  - Fire suppression







## Policy and Procedures

- Strategic Plan Goal 4
- Developing series of policy and procedures
- Will provide guidance for:
  - Fire hydrant repairs
  - PHWD Coordination
  - Town Coordination
  - Evaluation of improved fire suppression
  - Document existing assets

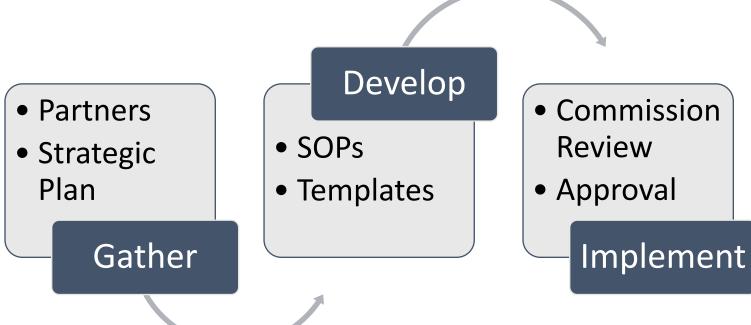






#### Policy and Procedures Development

- Information Gathering Task
   Force
  - Central Fire Operations
  - Central Fire Fire Marshal
  - PHWD
  - Town
- Working Group
  - District
  - F&L
  - Central Fire Fire Marshal

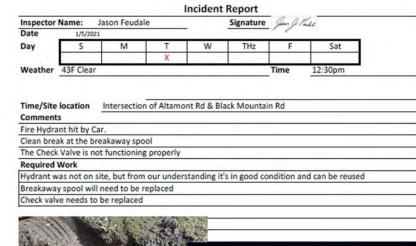






#### Fire Hydrant and Lateral Replacements

- When is FH work required?
  - FH strike
  - Lateral leak
  - Hydrant malfunction
- How has FH work been completed?
  - Individual projects
  - Working towards on-call bid package



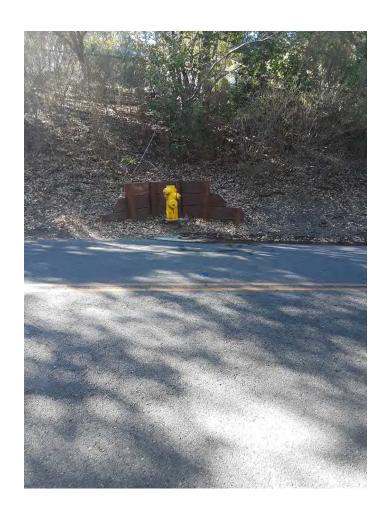


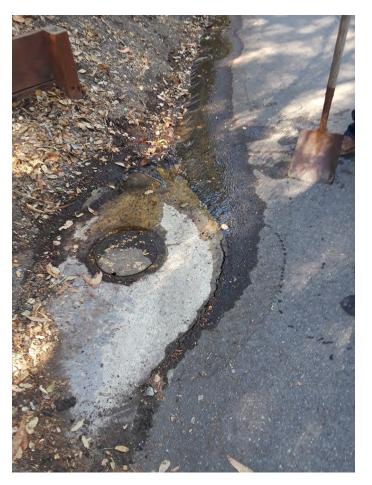




#### Viscaino Fire Hydrant Replacement

- Notified by PHWD that a leak observed at fire hydrant near 12775
   Viscaino Road
- Visual observation indicated leak at valve adjacent to hydrant



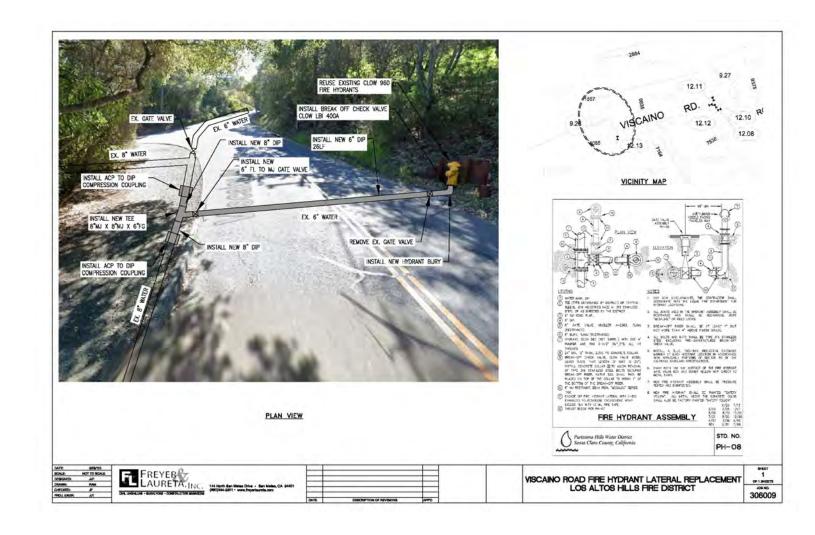






#### Viscaino Fire Hydrant Replacement

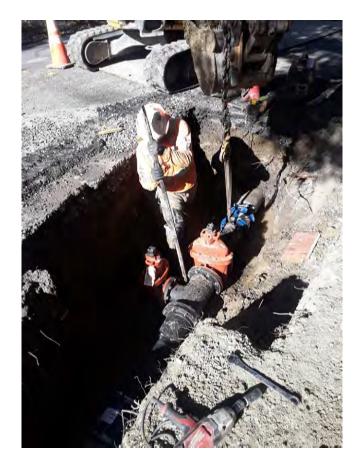
- Confirmed repair was responsibility of District and proper expenditure of District funds
- Construction Documents prepared to replace lateral
- Plans reviewed and approved by PHWD
- Bid solicited from three contractors
- C2R Engineering, Inc. determined to be lowest responsive bidder







## Viscaino Fire Hydrant Replacement



New Tee and Valve on District side of PHWD Main



New Lateral Connecting to Valve at Tee



Reinstalled Fire Hydrant





#### Coordination with PHWD

- Coordinate repair of FH
- Review PHWD capital improvements to identify impacts, if any, to LAHCFD owned-infrastructure
- Collaborate to improve fire suppression, if appropriate, when PHWD implementing capital improvement projects





## Taaffe/Elena/Moody Project Improvements

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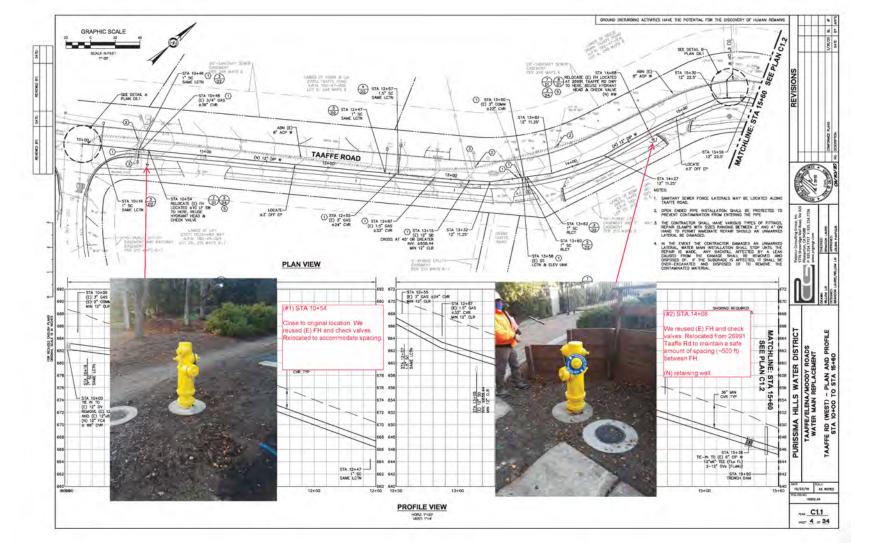
FINAL - February 26, 2021

Table 2 - Summary of Work for 16 Fire Hydrants

FH #²	Bid Item	Sheet	Street	STA	New FH <sup>3</sup>	Reuse FH <sup>4</sup>	Reuse Check Valve <sup>4</sup>	New RW <sup>5</sup>	Reuse RW <sup>6</sup>	New Bollard (#) <sup>7</sup>
1	15	C1.1	Elena Road	10+54		х	х			
2	15	C1.1	Taaffe Road	14+68		х	х	Х		
3	15	C1.3	Taaffe Road	13+78		х	х			
4	15	C1.4	Taaffe Road	18+06		х	х			
5	15	C1.5	Taaffe Road	21+88		х	х		х	
6	14	C1.6	Taaffe Road	26+55	х					
7	15	C1.7	Taaffe Road	30+31		х	х			
8	14	C1.7	Taaffe Road	34+52	х					
9	14	C1.8	Taaffe Road	38+73	х					
10	14	C2.3	Elena Road	19+30	х					X (2)
11	15	C2.4	Elena Road	22+80		Х	х		х	
12	16	C2.5	Elena Road	15+09		х	х			
13	15	C3.2	Vista del Valle Court	14+87		х	х			
14	15	C4.1	Vista del Valle Court	11+82		х	х			X (1)
15	14	C5.1	Moody Road	13+38	х			Х		
16	14	C5.3	Moody Road	10+21	х			Х		

#### Notes

FREYER & LAURETA, INC.







<sup>&</sup>lt;sup>2</sup> "FH #" refers to the fire hydrant number as labeled in the Exhibit 1 markups.

 $<sup>^3\,^\</sup>circ\text{New FH}^\circ$  corresponds to Bid Item 14 for new 6-inch fire hydrants with new heads and new check valves.

<sup>&</sup>lt;sup>4</sup> "Reuse FH" and "Reuse Check Valve" correspond to both Bid Items 15 and 16 for relocated 6-inch fire hydrants with reused existing heads and existing check valves. Fire hydrants under Bid Item 16 were relocated to a new location and serviced on an existing water line that was not replaced.

<sup>5 &</sup>quot;New RW" corresponds to Bid Item 17 for new retaining walls.

<sup>&</sup>lt;sup>6</sup> "Reuse RW" corresponds to Bid Item 18 for existing retaining walls that were removed and replaced.

<sup>7 &</sup>quot;New Bollards (#)" corresponds to Bid Item 27 for new bollards. The number in parentheses indicates the number of new bollards at this location.

#### Asset Management

- Document existing LAHCFDowned infrastructure
- Coordinate with ongoing GIS project







#### Document Infrastructure

- Review available information
- Site walks
- Collaborate with Central Fire



improvements, AC pavement and used storm drain BMP measures shall become the Contractor's property and properly disposed of in an approved manner as required by federal, state and local regulations.

At the option of the District, after the fire hydrant gate valve is confirmed to be non-operational and the fire hydrant gate valve and lateral fitting have been potholed and verified to be restrained or unrestrained type, the District will notify the Contractor if Bid Item No. 67 or 68 will also be constructed.

No. 16 - PHWD FH No. 13.02 (13193 La Paloma Road)



Confirm existing fire hydrant gate valve is operational. If gate valve is operational remove existing fire hydrant head (lvet-barrel). Install new 6° fire hydrant head (l-shape layout) per Water District Standards (PH-12). Depth of fire hydrant valve nut is approximately 4.0°. Inspect and remove debris (if required) from gate valve box to provide clear access to operate gate valve nut with standard key. Clean and repaint fire hydrant gate valve box cover yellow per District standards.

Removed fire hydrant head and blue pavement marker shall become the Contractor's property and properly disposed of in an approved manner as required by federal, state and local regulations.

The Contractor shall use and maintain a minimum of two (2) functioning lighted barricades as part of the complete traffic control safety measure system whenever the existing Town pathway is temporarily obstructed by fire hydrant replacement work for more than one (1) working day and/or over might.

At the option of the District, after the fire hydrant gate valve is confirmed to be non-operational and the fire hydrant gate valve and lateral fitting have been potholed and verified to be restrained

SP-119





#### Improve Existing Asset

- District-owned Parcel
- Develop conceptual layout for staging during emergencies
- Enhance site protections









Legend

Site Limits

Existing Bollard
and Chain

Existing Entrance

Existing Fire Hydrant
Existing LPW Box
Existing PG&E Box

# Discussion

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