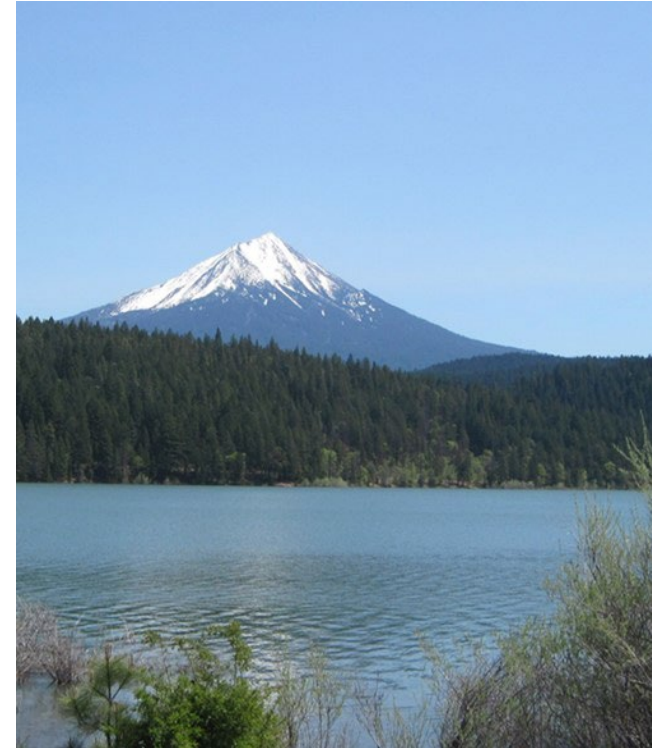


# CAPITAL HILL RESERVOIR REPLACEMENT



Open House June 4, 2024



**Who** is Medford Water?

**Why** is the project needed?

**What** is the project?

**When** will it be done?

**Where** will impacts be?



Who is  
Medford  
Water?



# MEDFORD WATER

## Municipal Water Provider

- Medford, Central Point, Eagle Point, Jacksonville, Phoenix, Talent, White City, and support Ashland
- Serves 150,000+ residents

## Organizational Structure

- Established in 1922 thru amendment to City Charter
- Governed by Board of Commissioners

## Project Team



# Who is Medford Water?

## Medford Water Owns Property & Reservoirs

City of Medford Owns Emergency Radio Tower

The Reservoirs are Critical for Medford's Water Supply

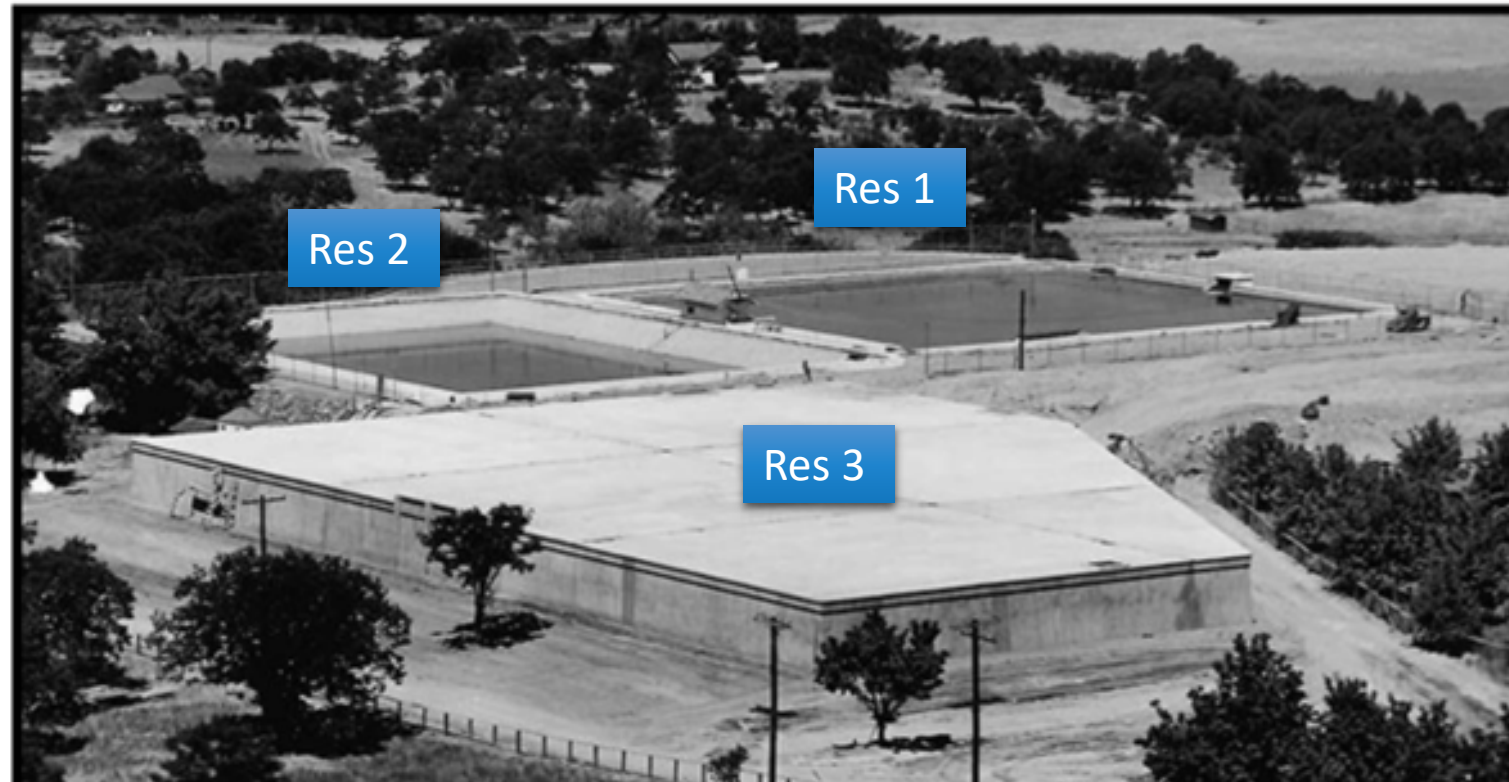


## Current Reservoirs Near the End of their Useful Lives

Reservoir 1 (2 million gallons) – Built 1908

Reservoir 2 (2 million gallons) – Built 1927

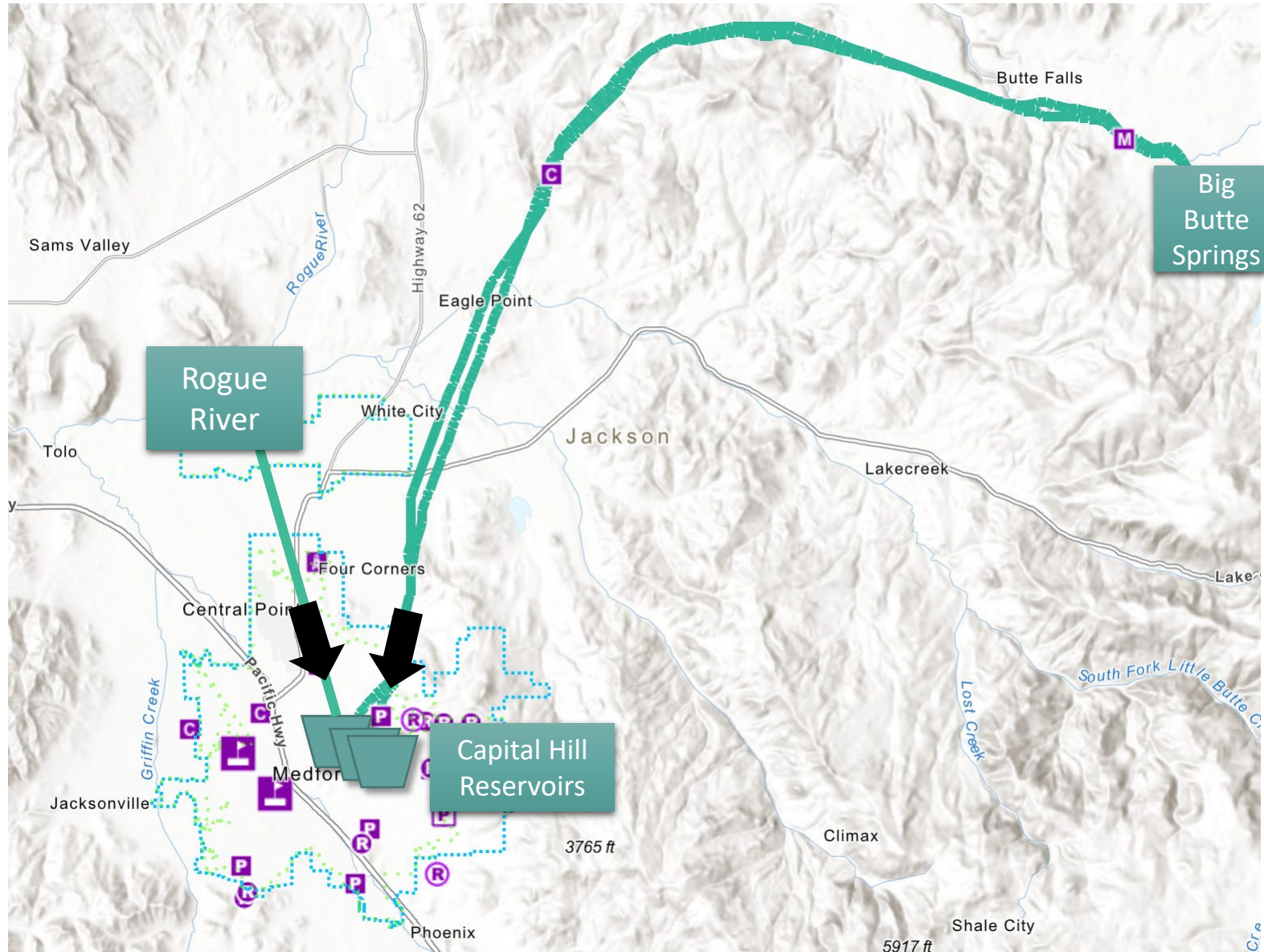
Reservoir 3 (8 million gallons) – Built 1945



1946 After Completion of Reservoir 3

# Why is the Project Needed?

## WHY HERE?



- Historically critical location for supply to the valley
- Resiliency for recovery after natural disaster

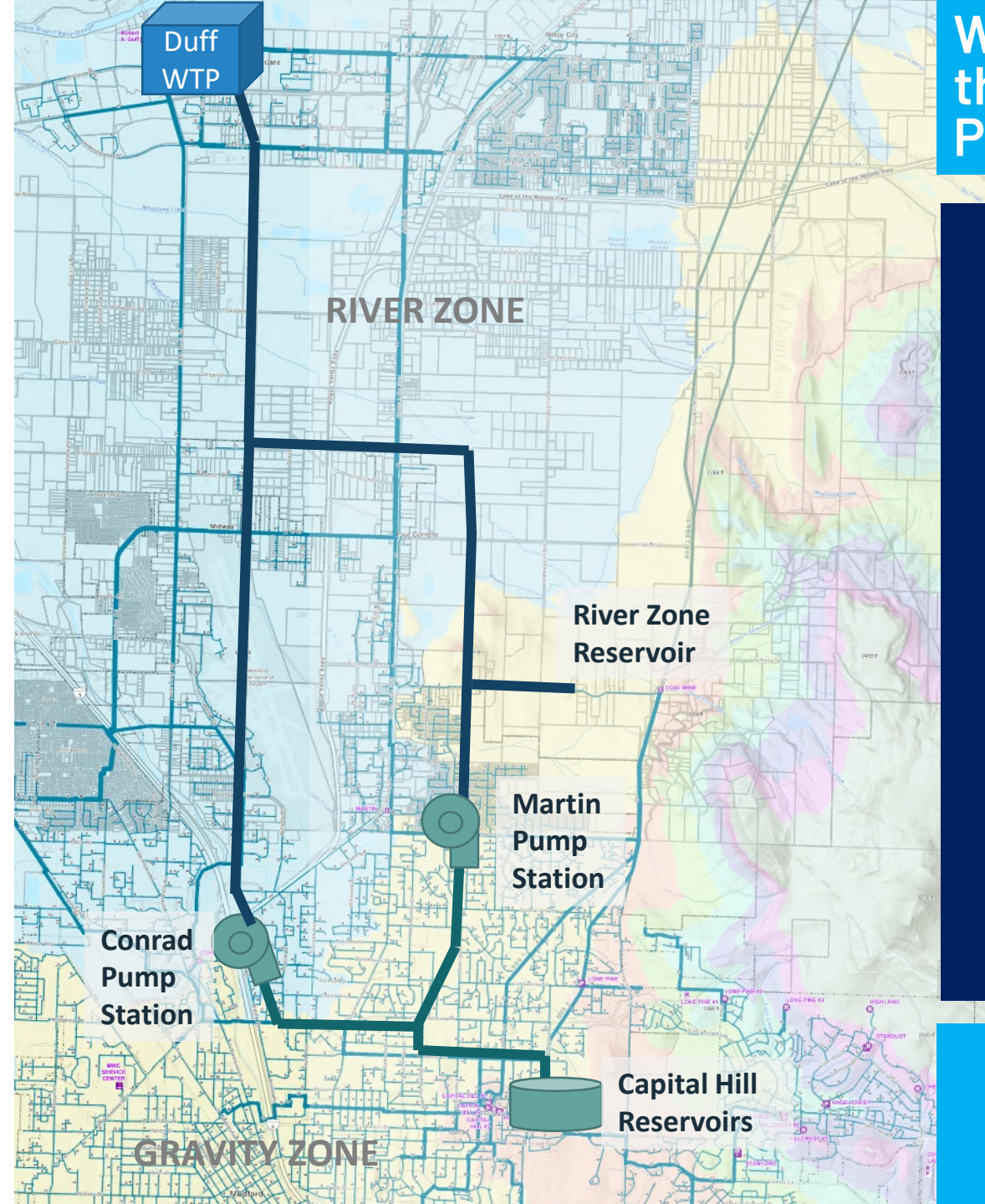
# Rogue Valley Water Supply Resiliency Program

- Medford Water's 10-Year Goal to Improve Water System "Backbone"

## Benefits

- Increased system resiliency
- Increased capacity
- Water for the next 25 years

**Faster recovery after natural hazard events**

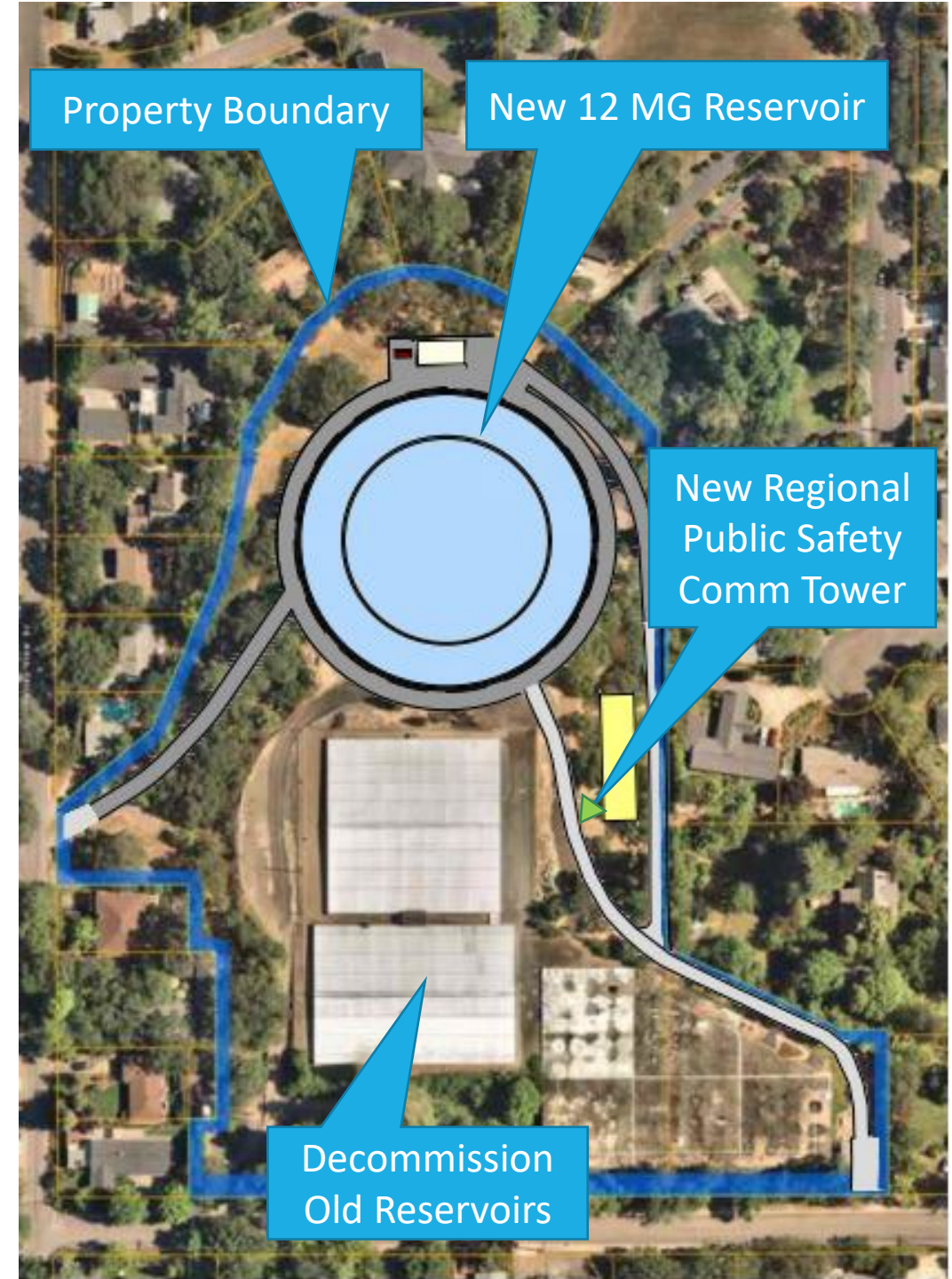


What is the Project?

# What is the Project?

## CAPITAL HILL RESERVOIR REPLACEMENT PROJECT

- Construct new regional public safety communications tower
- Remove old communications tower
- Construct new seismically resilient 12 MG reservoir
- Decommission existing reservoirs
- Restoration

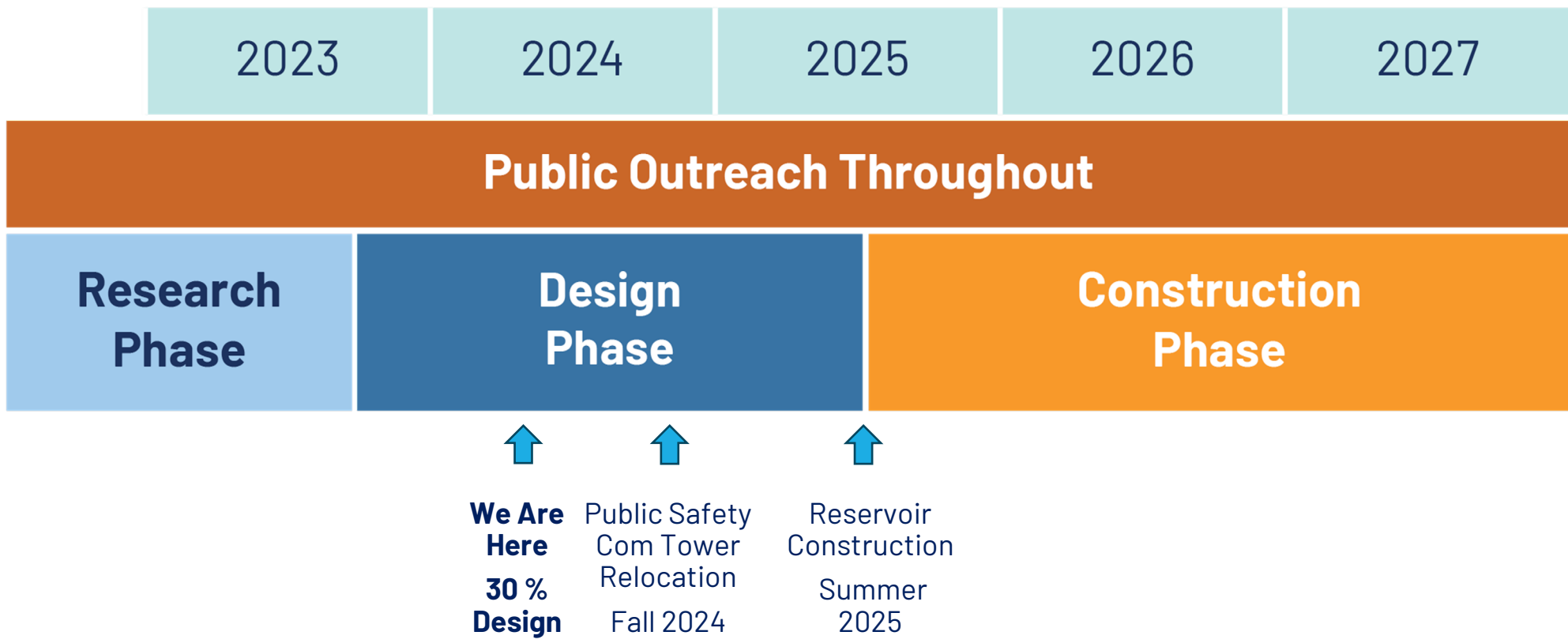




# When will it be Done?



## Project timeline

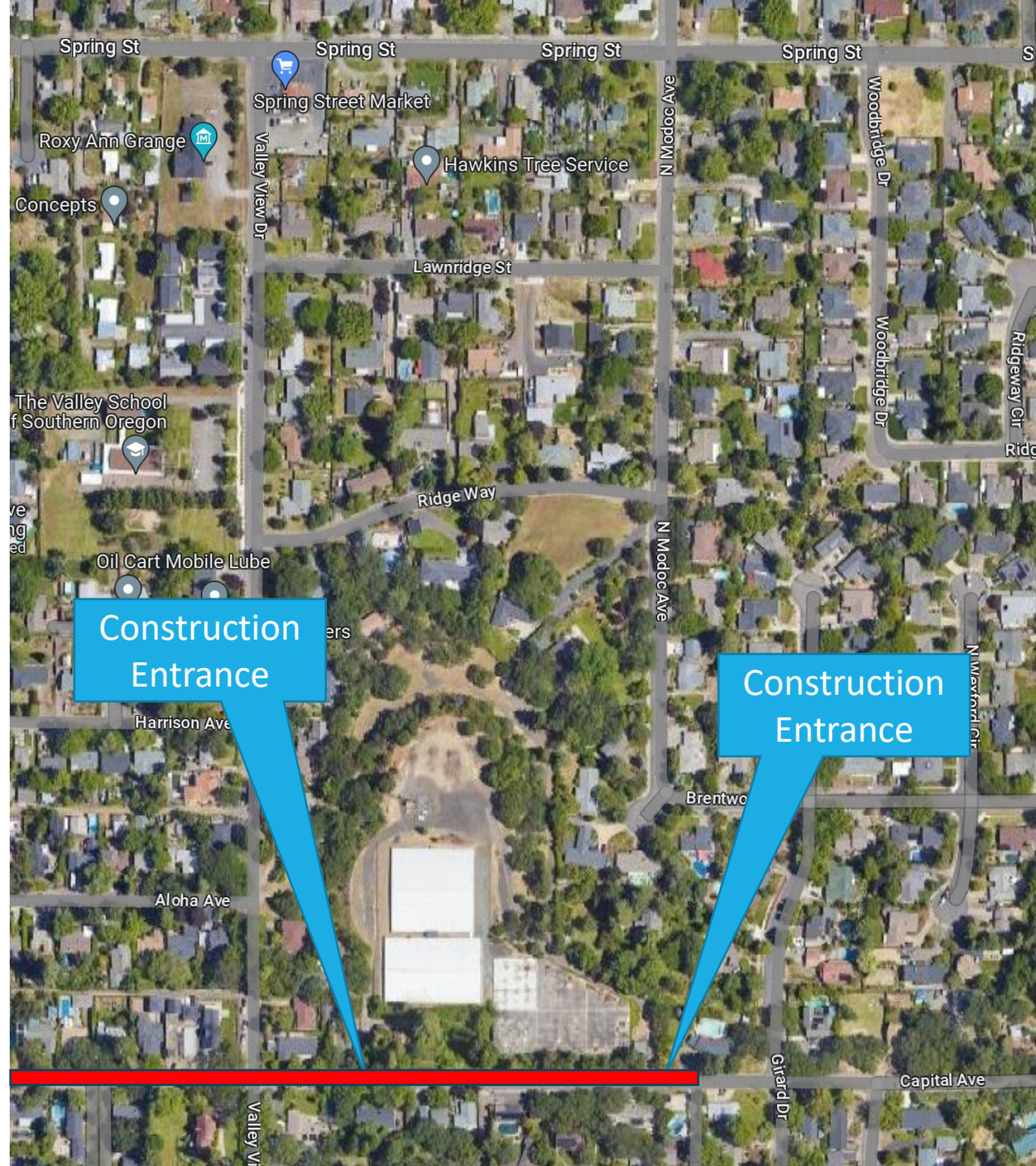


## Where will Impacts be?

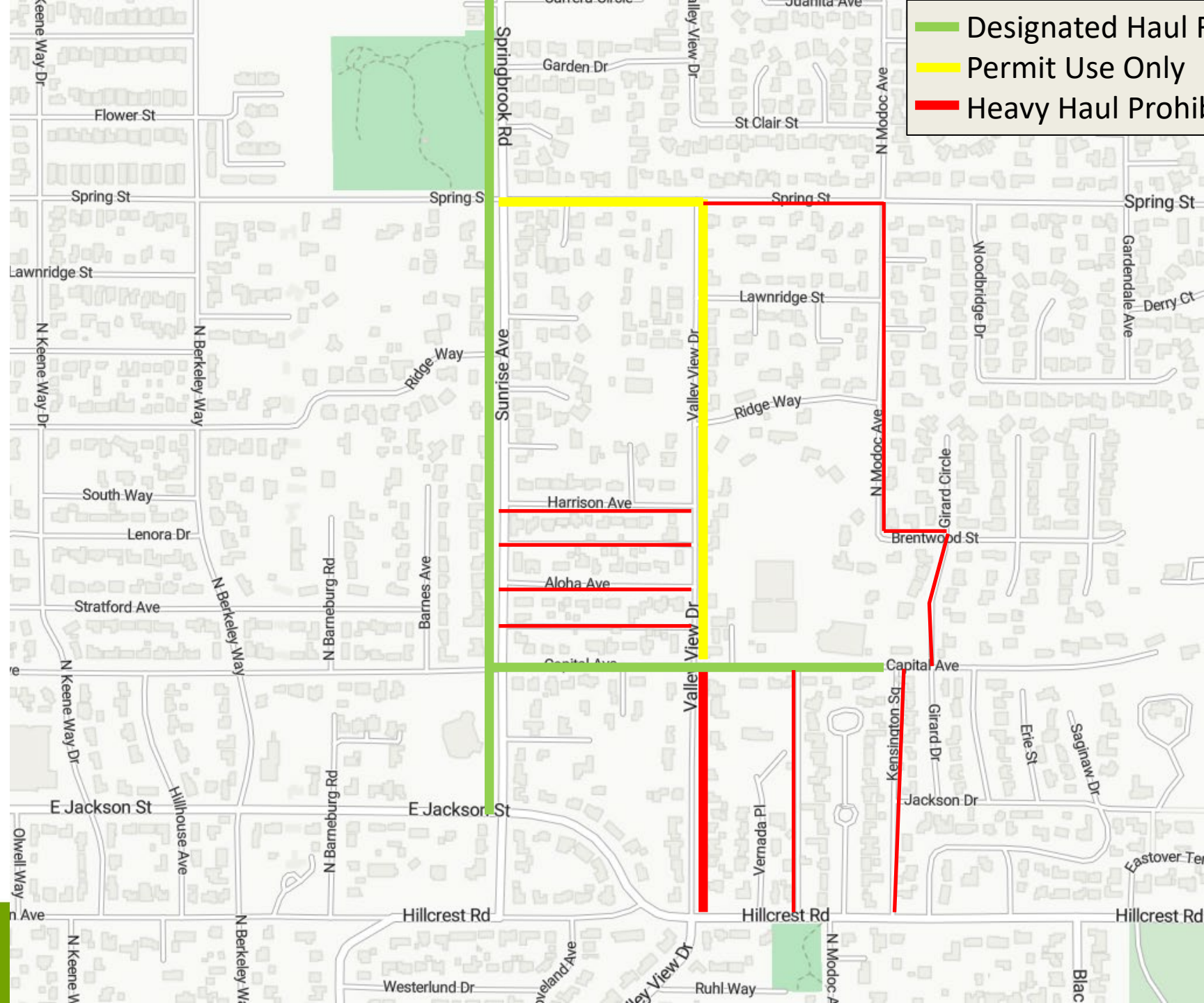
# Project Impacts

While the goal of the project team is to minimize the impact of the project on the local community, any construction project of this magnitude and importance will have some temporary impacts.

- Noise
- Increased street traffic
- Truck hauling routes
- Safety for pedestrians
- Visibility



- █ Designated Haul Route
- █ Permit Use Only
- █ Heavy Haul Prohibited





June 2024 Capital Hill Public Safety Tower Relocation

# Planning Review Process

---

- June 13, 2024: Planning Commission review Conditional Use Permit
- Meeting Details:
  - Time: 5:30 p.m.
  - Location: City Hall – 411 W 8th St., 3<sup>rd</sup> Floor Council Chambers
  - Public Comment Opportunity
- Submit written comment by noon on Thursday, June 13:
  - Email: [kelly.akin@cityofmedford.org](mailto:kelly.akin@cityofmedford.org)
  - Direct Mail: City of Medford Planning Department – 411 W 8<sup>th</sup> St., Medford 97501
- Questions?
  - Call Kelly Akin at 541-774-2380



- Feature 1
- Feature 2
- Spring Street Market
- The Valley School of Southern Oregon
- Timber Kids Dentistry

Capital Hill Proposed site 1



# OBJECTIVES

---

- Maintain or improve public safety communications provided by current tower at no cost to the City or Emergency Communications of Southern Oregon (ECSO).
- Maintain or improve communications for Medford Water Commission.
- Improve coverage for the National Public Safety Broadband Network (FirstNet). FirstNet provides robust uninterrupted cellular/broadband service for public safety personnel.
- Improve coverage for other commercial carriers.

# Construction Timeline

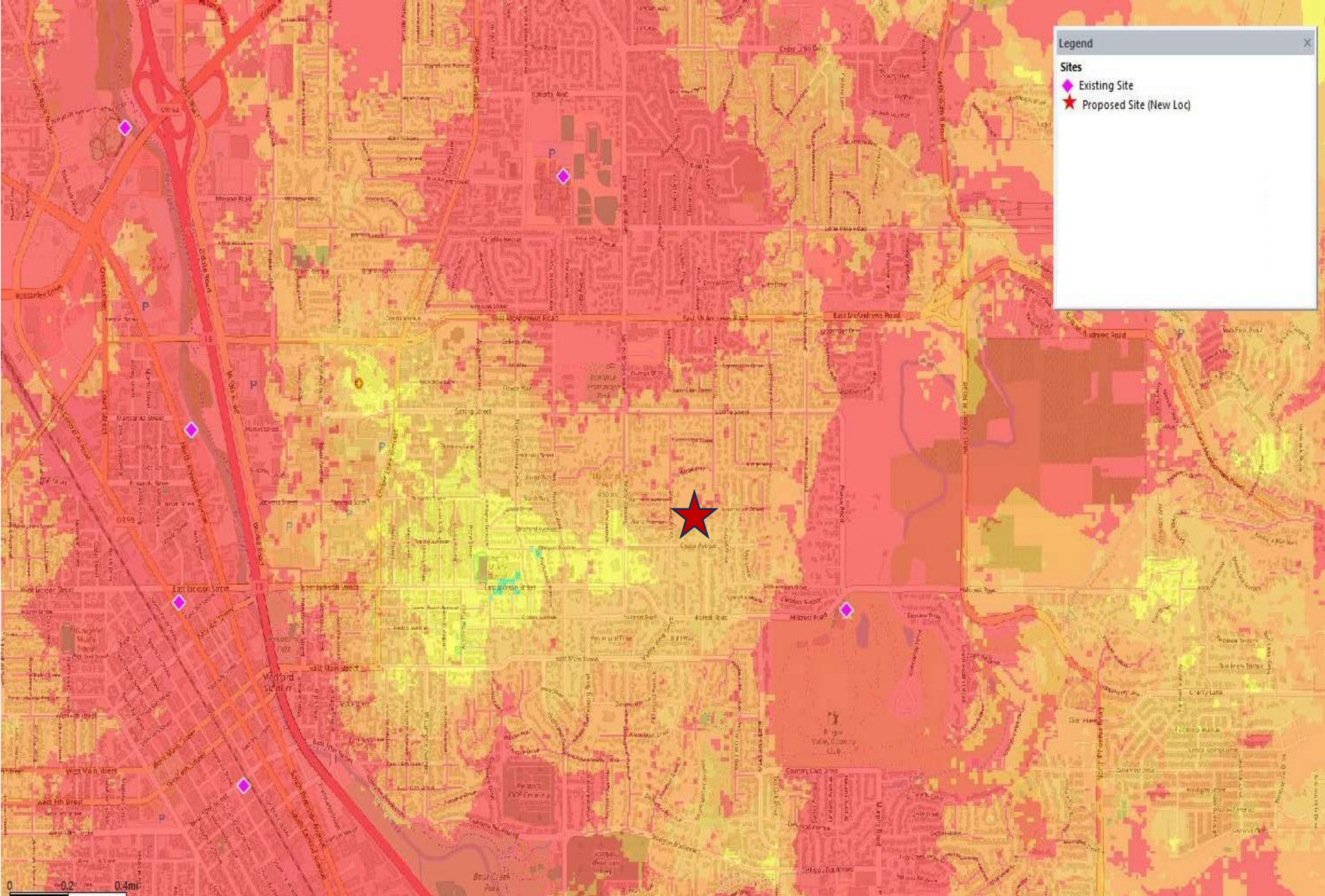
---

- Jun ' 24 Permit Approval
- Aug '24 Construction Start
- Dec '24 Construction Complete

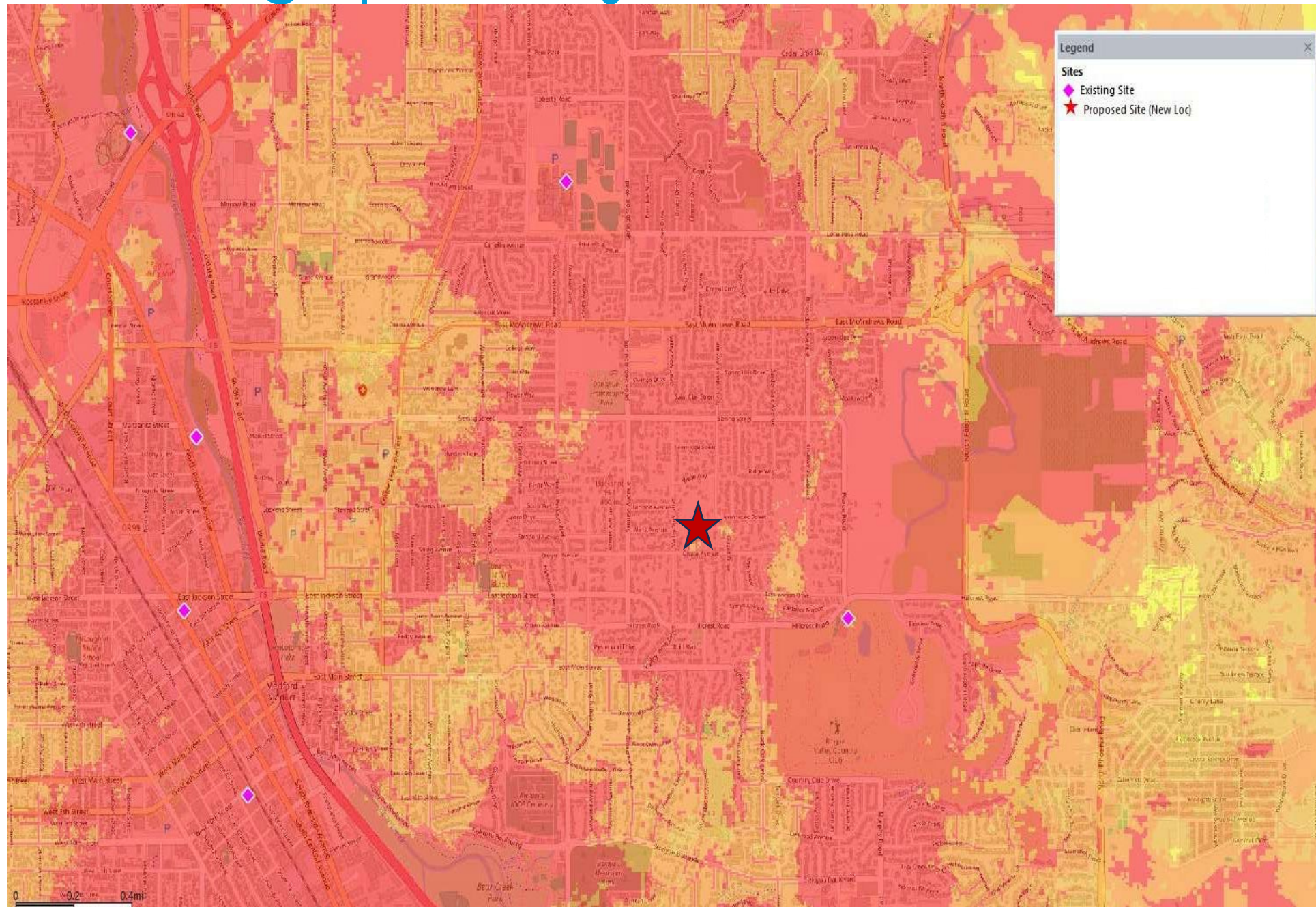


# Coverage Maps

# LTE 700Mhz RSRP@Current Coverage



# LTE 700Mhz RSRP @ Proposed Coverage



# Photo Sims



EXISTING



PROPOSED      LOOKING EAST FROM ALOHA AVENUE



EXISTING



PROPOSED LOOKING SOUTH FROM RIDGE WAY



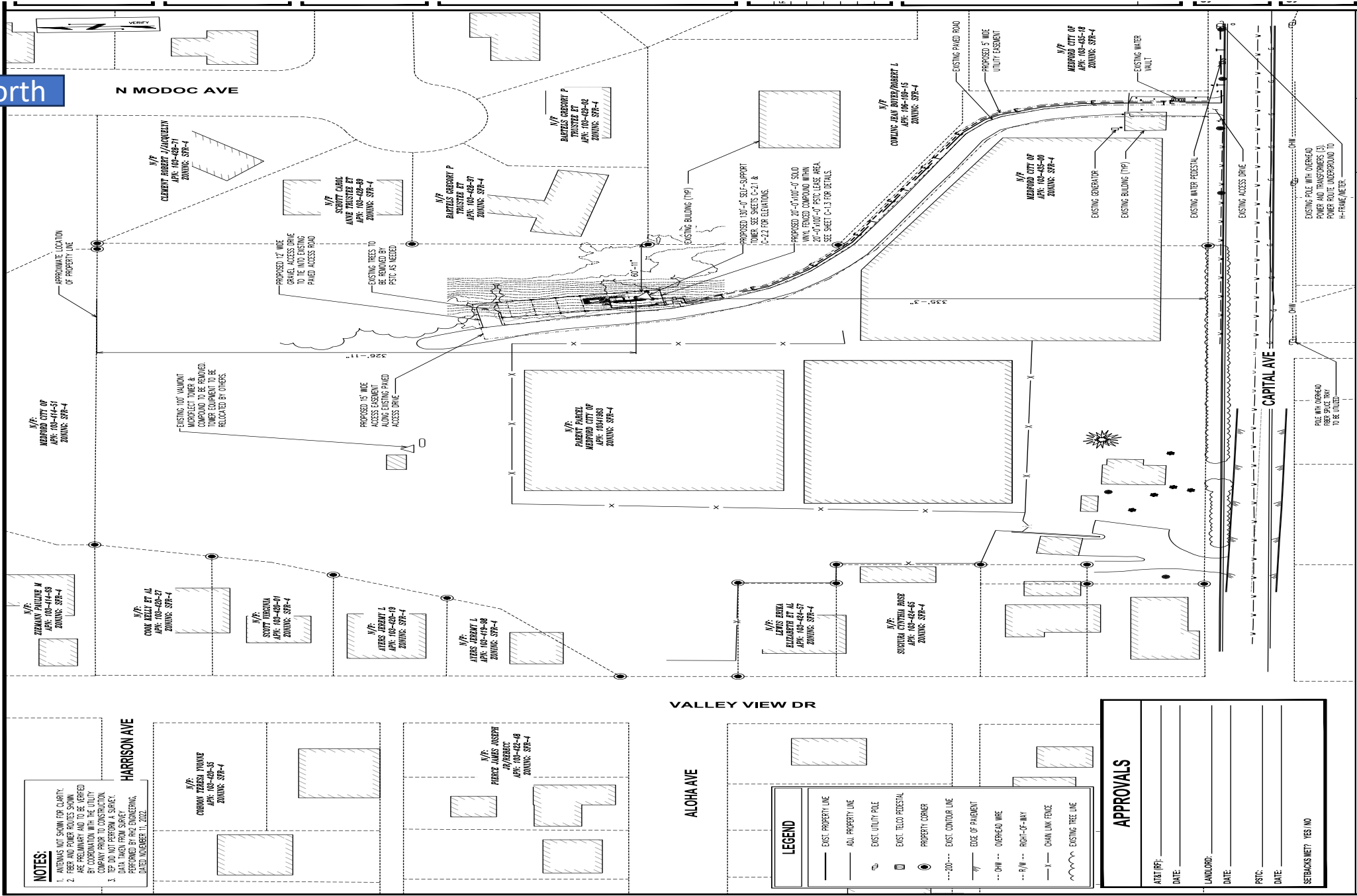


EXISTING



PROPOSED LOOKING NORTHWEST FROM CAPITAL AVENUE





**NOTES:**

1. ANTIENS NOT SHOWN FOR CLARITY.
2. FEES AND POWER ROUTES SHOWN ARE PRELIMINARY AND TO BE VERIFIED BY COORDINATION WITH THE UTILITY COMPANY PRIOR TO CONSTRUCTION.
3. DEP. DO NOT PERFORM A SURVEY. REFERENCED BY REG. ENGINEERING, DATE: NOVEMBER 11, 2022.

**HARRISON AVE**

V/P:  
COMAN TERESE YOUNG  
APR. 106-40-35  
ZONING: SFR-4

V/P:  
COOK KELLY ET AL  
APR. 106-40-27  
ZONING: SFR-4

V/P:  
SCOTT VIRGINIA  
APR. 106-40-09  
ZONING: SFR-4

V/P:  
ATERS JEREMY L  
APR. 106-41-08  
ZONING: SFR-4

V/P:  
ATERS JEREMY L  
APR. 106-41-08  
ZONING: SFR-4

V/P:  
PRICE JAMES JOSEPH  
JF/REBCC  
APR. 106-42-08  
ZONING: SFR-4

**VALLEY VIEW DR**

**ALOMA AVE**

**LEGEND**

- EXIST. PROPERTY LINE
- - - ADJ. PROPERTY LINE
- ⊕ EXIST. UTILITY PALE
- ⊕ EXIST. TLOD PEDESTAL
- PROPERTY CORNER
- - - - - EXIST. CONTOUR LINE
- EDGE OF PARAPENT
- - - - - OVERHEAD WIRE
- ⊕ RIGHT-OF-WAY
- - - CHAIN LINK FENCE
- ⊕ EXISTING TREE LINE

**APPROVALS**

ALT (RP):	_____
DATE:	_____
LANDLORD:	_____
DATE:	_____
PSTC:	_____
DATE:	_____
SETBACKS MET? YES/NO	_____

**EXISTING OVERALL SITE PLAN**

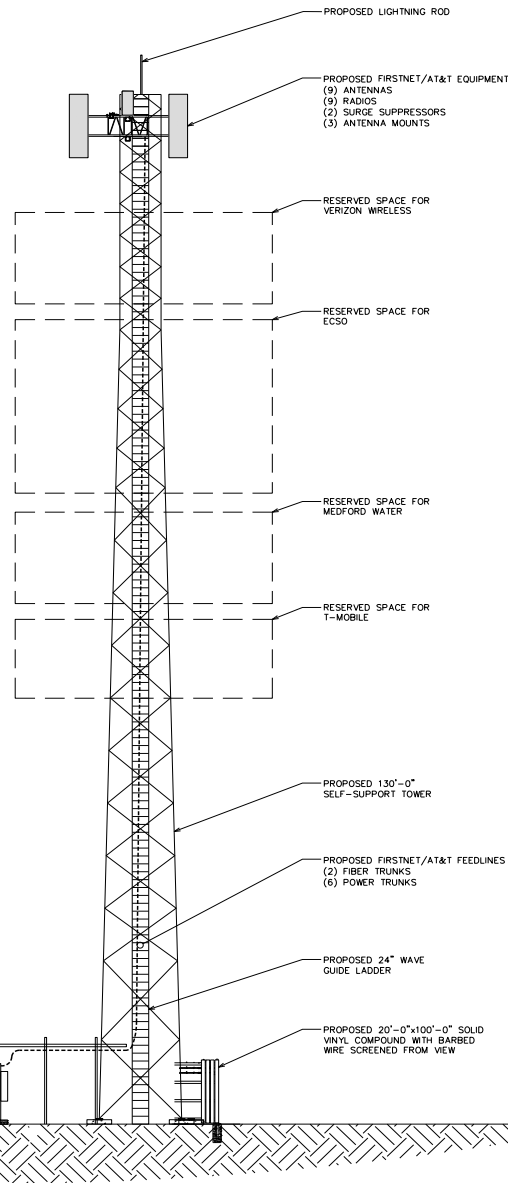
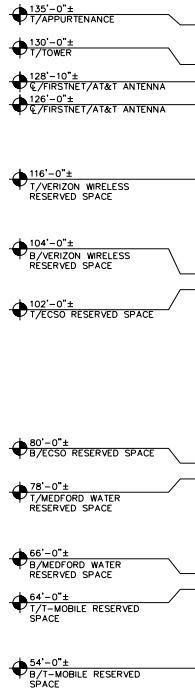
1

SCALE: 1" = 40' (24.38)  
SCALE: 1" = 80' (111.47)

SCALE IN FEET  
0 40 80

**NOTES:**

1. PROPOSED CABLES TO BE ROUTED PER SPECIFICATIONS OF PASSING STRUCTURAL ANALYSIS.
2. TOWER ELEVATION IS FOR SCHEMATIC PURPOSES ONLY. TEP DID NOT CONFIRM EXISTING SITE CONDITIONS, INCLUDING, BUT NOT LIMITED TO, ANTENNA HEIGHTS, ANTENNA AZIMUTHS, AND MOUNT CONFIGURATIONS.
3. CONTRACTOR TO VERIFY PROPOSED LOADING WITH PASSING STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT FIRSTNET/AT&T OR PSTC IMMEDIATELY IN THE EVENT OF ANY DISCREPANCIES.



0'-0" (REF)  
T/CONCRETE

1903 WRIGHT PLACE, SUITE 140  
CARLSBAD, CA 92008

5005 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583

TOWER ENGINEERING PROFESSIONALS  
4710 E ELWOOD ST, STE 9  
PHOENIX, AZ 85040  
OFFICE: (480) 285-0036  
www.tepgroup.net

FIRSTNET/AT&T SITE ID:  
MF15

FIRSTNET/AT&T SITE NAME:  
BUCKSHOT HILL

PSTC #: PNWX-MFORD02

2321 CAPITAL AVE  
MEDFORD, OR 97504  
(JACKSON COUNTY)

PROPOSED 130'-0"  
SELF-SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
A	03-14-24	MKB	ZONING	HMM
B	04-02-24	SVJ	ZONING	HMM
C	04-18-24	SVJ	ZONING	HMM
D	04-26-24	HMM	ZONING	HMM
E	05-16-24	SVJ	ZONING	HMM
F	05-21-24	MKW	ZONING	HMM

SEAL:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET TITLE:  
**TOWER ELEVATION**

SHEET NUMBER: **C-2.2**      REVISION: **F**

TEP #: 337680.931613



EMERGENCY COMMUNICATIONS  
OF SOUTHERN OREGON





EMERGENCY COMMUNICATIONS  
OF SOUTHERN OREGON



# Typical Public Radiofrequency Exposure

