

SASD 2010 SYSTEM CAPACITY PLAN EXPANSION TRUNK SHEDS

UN ORANGEVALE TRUNK SHED

Area Description

The UN Orangevale Trunk Shed is located east of Hazel Avenue and south of the Sacramento County line.

Trunk System Facilities

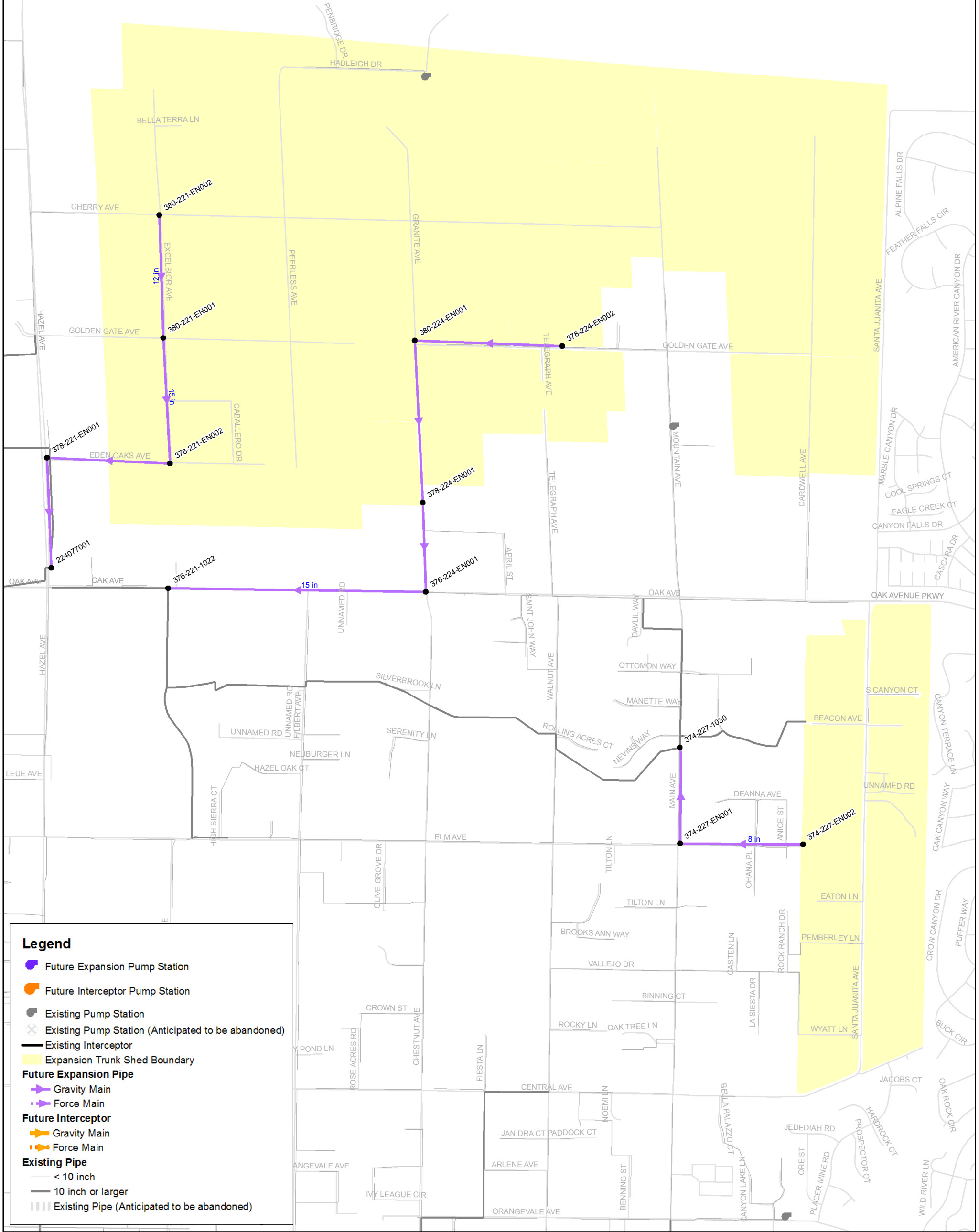
The trunk shed would be served by two primary trunk sewers and one local collector sewer. One trunk follows Excelsior Avenue south, Eden Oaks Avenue west, and Hazel Avenue south and connects to an existing trunk sewer near Hazel Avenue and Oak Avenue. The other trunk sewer follows Golden Gate Avenue west, Granite Avenue south, and Oak Ave west. It connects to an existing trunk sewer located in Oak Avenue.

The local collector will serve the area south of Oak Avenue, north of Central Avenue, and east and west of Santa Juanita Avenue. The collector sewer follows Elm Avenue west and Main Avenue north where it connects to an existing trunk sewer.

Since the new trunk sewers would connect into the existing system, there would be no need for interim facilities.

**UN Orangevale
Trunk Sewer Data and Model Results
Buildout 10-Year Design Storm**

US Manhole	DS Manhole	Link Suffix	Link Type	Diameter (in)	Length (ft)	US Rim Elev. (ft)	US Invert Elev. (ft)	DS Rim Elev. (ft)	DS Invert Elev. (ft)	Slope, %	Full Capacity (mgd)	Peak Flow (mgd)	% Full Capacity	d/D
378-224-EN002	380-224-EN001	1	Gravity Main	15	1566	257.0	198.8	225.4	195.9	0.180	1.77	1.31	74	0.8
380-224-EN001	378-224-EN001	1	Gravity Main	15	1722	225.4	195.9	229.6	192.8	0.180	1.77	1.63	92	0.8
378-224-EN001	376-224-EN001	1	Gravity Main	15	947	229.6	192.8	240.0	191.1	0.180	1.77	1.64	93	0.8
376-224-EN001	376-221-1022	1	Gravity Main	15	2732	240.0	191.1	207.1	186.2	0.180	1.77	1.64	93	1.0
380-221-EN002	380-221-EN001	1	Gravity Main	12	1305	221.0	196.6	235.8	190.7	0.450	1.55	1.01	65	0.6
380-221-EN001	378-221-EN002	1	Gravity Main	15	1335	235.8	190.4	227.1	188.0	0.180	1.77	1.47	83	0.8
378-221-EN002	378-221-EN001	1	Gravity Main	15	1306	227.1	188.0	202.0	185.7	0.180	1.77	1.56	88	0.7
378-221-EN001	224077001	1	Gravity Main	15	1169	202.0	185.7	202.4	183.2	0.210	1.93	1.56	81	0.7



Legend

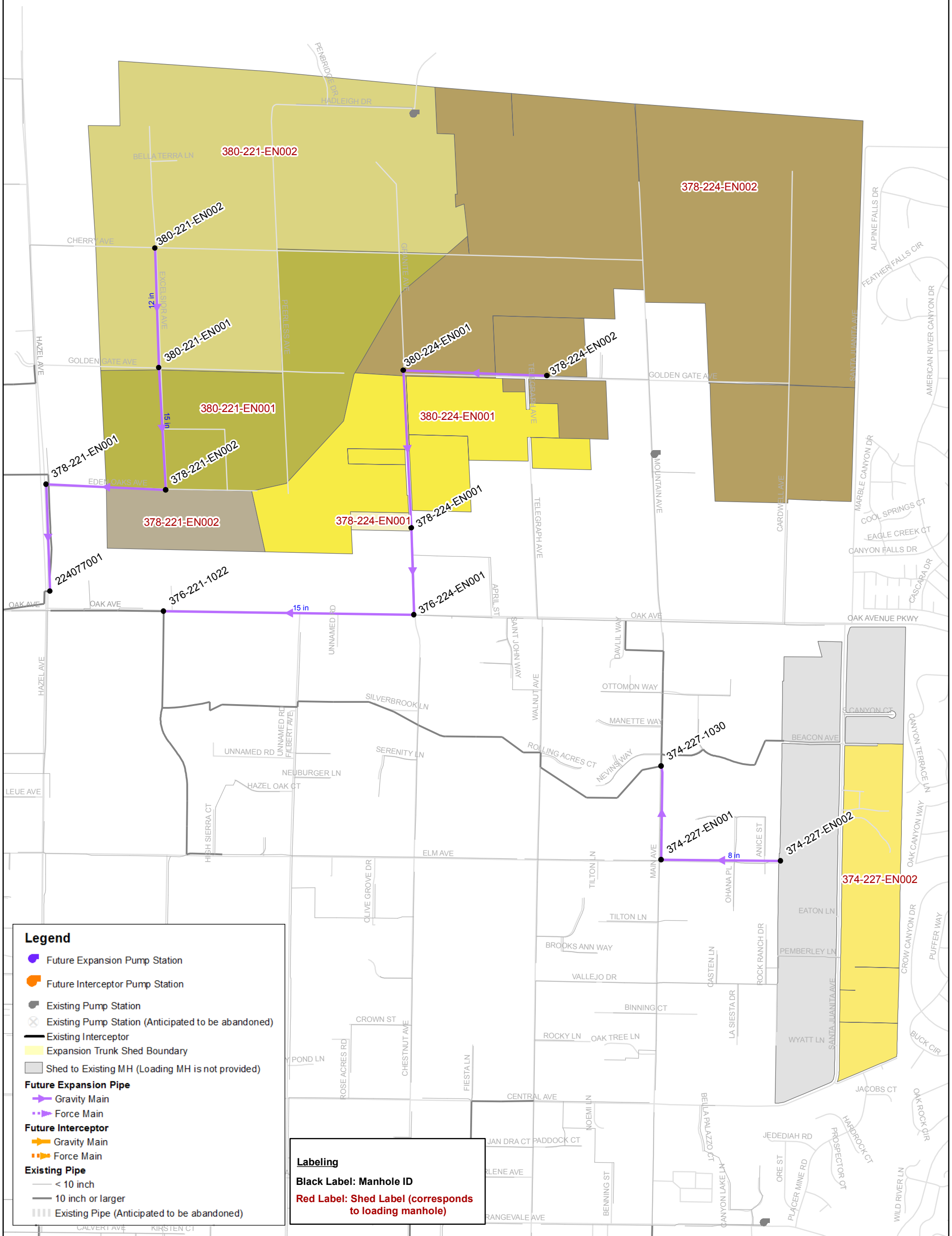
- Future Expansion Pump Station
- Future Interceptor Pump Station
- Existing Pump Station
- Existing Pump Station (Anticipated to be abandoned)
- Existing Interceptor
- Expansion Trunk Shed Boundary
- Future Expansion Pipe**
 - Gravity Main
 - Force Main
- Future Interceptor**
 - Gravity Main
 - Force Main
- Existing Pipe**
 - < 10 inch
 - 10 inch or larger
 - Existing Pipe (Anticipated to be abandoned)



2010 SASD SYSTEM CAPACITY PLAN

**UN Orangevale
Buildout Expansion Plan**

FIGURE A.18-1



Legend

- Future Expansion Pump Station
- Future Interceptor Pump Station
- Existing Pump Station
- Existing Pump Station (Anticipated to be abandoned)
- Existing Interceptor
- Expansion Trunk Shed Boundary
- Shed to Existing MH (Loading MH is not provided)
- Future Expansion Pipe**
- Gravity Main
- Force Main
- Future Interceptor**
- Gravity Main
- Force Main
- Existing Pipe**
- < 10 inch
- 10 inch or larger
- Existing Pipe (Anticipated to be abandoned)

Labeling

Black Label: Manhole ID

Red Label: Shed Label (corresponds to loading manhole)



2010 SASD SYSTEM CAPACITY PLAN

**UN Orangevale
Sewer Shed Map
Buildout Expansion Plan
FIGURE A.18-2**