4.13 UTILITIES

This section discusses existing utilities within the SVRTC. The information provided includes the location, quantity, type of utility, owner/operator, size, and type of materials on the larger utilities (36 inches and greater in diameter) that have the potential to adverse effects on the design configuration and construction of the BEP and SVRTP alternatives. Information regarding utilities was determined through site assessment, potholing, and reviewing utility/public works documentation. For information about utilities, including new electrical facilities and communication equipment, for the BEP and SVRTP alternatives (see Chapter 2.0, Alternatives).

Specific reports used in this section are listed in Chapter 14, References. Information about utilities along the BEP and SVRTP alternative alignments can be found in the Composite Utility Identification Drawings and the Utility Conflict Identification Drawings, Silicon Valley Rapid Transit Project P0502 Line Segment and the Composite Utility Relocation Plans and the Utility Relocation Drawings of the Tunnel Segment.

4.13.1 UTILITIES IN PROJECT CORRIDOR

The utilities existing within the SVRTC include water, storm drains and sanitary sewer lines, electric and gas lines, streetlights and traffic signals, communications facilities, and petroleum and nitrogen pipelines.

Water lines are owned and operated by the San Francisco Water District, Alameda County Water District, City of Milpitas, San Jose Water Company, San Jose Municipal Water System, City of San Jose, City of Santa Clara, and the Santa Clara Valley Water District (SCVWD). The storm drains and sanitary sewers in the SVRTC are maintained by the Alameda County Flood Control and Water Conservation District, Union Sanitary District, City of Fremont, City of Milpitas, City of San Jose, City of Santa Clara, and the SCVWD. Pacific Gas and Electric Company (PG&E) controls the electric and gas lines throughout the corridor except in the City of Santa Clara where Silicon Valley Power provides electrical service. The streetlights and traffic signals in the corridor are maintained by the cities of Fremont, Milpitas, San Jose, and Santa Clara, and by Alameda and Santa Clara counties. The communications facilities in the corridor are owned and operated by Sprint, Broad Wing, Verizon (formerly MCI/MFS), Level 3, XO Communications, City of San Jose, Smart Fiber, AT&T (formerly SBC), Brooks Fiber, Qwest, Comcast, and UPRR. Petroleum and nitrogen pipelines are owned and maintained by Chevron, Kinder Morgan, and Air Products.

Table 4.13-1 identifies the major utility pipelines, utility pipelines that are 36 inches and greater in diameter, along the BEP and SVRTP alignments.

The following discussion notes locations of the major utilities within the SVRTC by city. Utilities within the BEP Alternative corridor extend from the City of Fremont to the City of San Jose up to Mabury Road. Utilities within the SVRTP Alternative corridor extend from the City of Fremont to the City of Santa Clara.

City of Fremont

The following major utilities within the City of Fremont portion of the SVRTC are located within the BEP and SVRTP alternatives.

The San Francisco Water District has two steel water lines, 72 and 90 inches in diameter, between Kato Road and Curtis Avenue.

Alameda County Flood Control and Water Conservation District maintains a 60-inch storm drain from Mission Boulevard to Auburn Court.

The City of Fremont maintains a 48-inch reinforced concrete pipe storm drain near Kato Road.

City of Milpitas

The following major utilities within the City of Milpitas portion of the SVRTC are located within the BEP and SVRTP alternatives.

The SCVWD maintains two 42-inch water lines that extend between Curtis Avenue and Lundy Place.

The City of Milpitas maintains a 42-inch storm drain near Balboa Drive and a 78-inch storm drain line near Montague Expressway and Lundy Place.

PG&E controls overhead electrical lines from Curtis Avenue to Montague Expressway and along Montague Expressway between Capitol Avenue and Milpitas Boulevard. PG&E also owns a gas pipeline that is 36 inches in diameter between Montague Expressway and Lundy Place.

City of San Jose

The following major utilities within the City of San Jose portion of the SVRTC are located within both the BEP and SVRTP alternatives or only the SVRTP Alternative.

The SCVWD maintains a 66-inch high-pressure water main which parallels the BEP and SVRTP alternatives between Berryessa and Mabury roads.

Table 4.13-1: Major Utility Locations Along the BEP and SVRTP Alternative Alignments (36" diameter and greater)

Location	Figure/Stationing	Quantity	Type of Utility	Owner/Operator	Size (inches)	Type of Materials
Mission Boulevard to Auburn Court	Figure B-4 STA 73+90	1	Storm Drain	Alameda County Flood Control and Water Conservation District	60	Reinforced concrete pipe
Kato Road to Curtis Avenue	Figure B-14 STA 316+ 75	2	Water	San Francisco Water District	72 and 90	Steel
Kato Road	Figure B-7 STA 168+50	1	Storm Drain	City of Fremont	48	Reinforced concrete pipe
Balboa Drive	Figure B-11 STA 223+30	1	Storm Drain	City of Milpitas	42	Reinforced concrete pipe
Curtis Avenue to Montague Expressway	Figures B-14 to B-15 and B-19 STA 330+00 to STA 370+00	1	Electric	PG&E	115 kV	Overhead line
Curtis Avenue to Montague Expressway	Figures B-14 to B-15 and B-19 STA 330+00 to STA 370+00	1	Water	Santa Clara Valley Water District	42	Welded Steel
Montague Expressway between Capitol Avenue and Milpitas Boulevard	Figure B-21A	1	Electric	PG&E	115 kV	Overhead line
Capitol Avenue	Figures B-17 and B-20 STA 378+00 to STA 390+00	1	Gas	PG&E	36	Welded steel
Montague Expressway to Lundy Place	Figures B-17 and B-20 STA 381+00	1	Water	Santa Clara Valley Water District	42	Steel
Montague Expressway to Lundy Place	Figures B-17 and B-20 STA 382+00	1	Gas	Pacific Gas and Electric	36	Unknown
Montague Expressway to Lundy Place	Figures B-17 and B-20 STA 390+00	1	Storm Drain	City of Milpitas	78	Reinforced concrete pipe
Lundy Avenue/Sierra Road Intersection	Figure B-23 STA 489+50 and STA 491+00	1	Sanitary Sewer	City of San Jose	36	Vitrified clay pipe
Lundy Avenue/Sierra Road Intersection	Figure B-23 STA 489+50 and STA 491+00	2	Storm Drain	City of San Jose	48 and 54	Reinforced concrete pipe

Location	Figure/Stationing	Quantity	Type of Utility	Owner/Operator	Size (inches)	Type of Materials
Berryessa Road to Mabury Road	Figures B-24 to B-25 and B-27 to B-28 and C-2 to C-3 STA 520+00 to STA 549+00	1	High-Pressure Water	Santa Clara Valley Water District	66	Pre-stressed concrete or welded steel
7th and East Santa Clara Streets	Figure C-14 STA 676+00	1	Sanitary Sewer	City of San Jose	72	Vitrified clay pipe and reinforced concrete pipe
6th and East Santa Clara Streets	Figure C-14 STA 680+00	1	Storm Drain	City of San Jose	72	Reinforced concrete pipe
5th and East Santa Clara Streets	Figure C-14 STA 683+50	1	Sanitary Sewer	City of San Jose	54	Brick
5th and East Santa Clara Streets	Figure C-14 STA 683+50	1	Storm Drain	City of San Jose	54	Reinforced concrete pipe
4th and East Santa Clara Streets	Figure C-14 STA 687+00	2	Storm Drain	City of San Jose	54 and 60	Reinforced concrete pipe
Autumn Street	Figure C-15 STA 734+53	1	Sanitary Sewer	City of San Jose	36	Vitrified clay pipe
Stockton Avenue	Figure C-17 STA 785+00 to STA 792+00	1	Communications	AT & T, Level (3)	36 total	Concrete duct
Emory Street	Figure C-18 STA 803+ 60	1	High-Pressure Water	Santa Clara Valley Water District	66	Welded steel encased in concrete

Source: Earth Tech, Inc., 2003; VTA, 2007.

This same water main crosses the SVRTP Alternative alignment again near the intersection of Emory Street and Stockton Avenue.

The City of San Jose maintains multiple sanitary sewer and storm drain pipelines at the Lundy Avenue and Sierra Road intersection in both BEP and SVRTP alternative alignments. Other sanitary sewer and storm drain pipelines are located in downtown San Jose crossing East Santa Clara Street at 4th, 5th, 6th, and 7th streets, and at Autumn Street in the SVRTP Alternative alignment.

PG&E controls the gas line along Capitol Avenue in both BEP and SVRTP alternative alignments. Communications facilities at the PG&E substation located near Newhall Street and Stockton Avenue are owned and operated by AT&T and Level 3 and are within the SVRTP Alternative alignment.

City of Santa Clara

No major utilities were identified within the City of Santa Clara portion of the SVRTC.

4.13.2 REGULATORY CONSIDERATIONS

California Public Utilities Commission

Numerous utilities' rights-of-way cross the BEP and SVRTP alternative alignments. The California Public Utilities Commission (CPUC) is charged by Article 12 of the California State Constitution with the authority to regulate privately owned utilities within the State of California. Utilities under the jurisdiction of the CPUC that would cross the SVRTC include the distribution facilities of privately owned electric, gas, pipeline, sewer, telecommunications, and water companies. The CPUC also has oversight authority over safety aspects of rail transit passenger carriers, such as BART (Public Utility Code §99152). It should be noted that California law requires CPUC authorization prior to the construction of at-grade rail crossings at public streets, roads, or highways. However, all crossings at public streets, roads, or highways will be grade-separated as part of either the BEP or SVRTP alternative. In addition, CPUC authorization is required for the disposition of properties owned by public utilities and dedicated to the performance of the utilities' duties to the public (Public Utilities Code §851).

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