

4.0 PROJECT ROUTE DESCRIPTION

As described in Chapter 3, Project Description, Metromedia proposes to install conduit for fiber optic cable along routes in the Los Angeles and San Francisco Bay metropolitan areas. For the purposes of this document, these routes are referred to as the San Francisco Bay Area Network and the Los Angeles Basin Network and are shown in Figures 3-1 and 3-2 in Chapter 3, respectively. The purpose of this chapter is to provide specific details on the routes that comprise these two networks, along with summaries of the construction methods and the mileage or footage of conduit to be installed, repaired, or replaced by Metromedia. A detailed description of each of the construction methods (i.e., open-trenching and directional boring) is provided in Chapter 3.

The San Francisco Bay Area Network is comprised of two distinct components: (1) a segment herein referred to as the Backbone, which follows the Caltrain right-of-way along the San Francisco Peninsula from the intersection of 4th Street and Berry Street in San Francisco to Luther Junction in San Jose, and the Union Pacific Railroad right-of-way along the East Bay from Luther Junction in San Jose to a point in northwest Oakland; and (2) a component that uses existing Pacific Bell conduit. The existing Pacific Bell Structure to be used by Metromedia encircles the greater Bay Area. Metromedia plans to pull fiber through roughly 200 miles of existing Pacific Bell conduit. There are portions of the Pacific Bell conduit which are discontinuous because of damaged or otherwise inadequate sections. In those areas where the conduit has collapsed, been damaged, or is otherwise unusable, Metromedia proposes to repair or replace the conduit prior to pulling fiber optic cable. Only conduit repair or replacement work is evaluated as part of the project analyzed in this document. The California Public Utilities Commission (CPUC) has already authorized Metromedia to pull fiber through existing conduit.

With respect to Metromedia's Los Angeles Basin Network, 155 miles of the roughly 345-mile network is being constructed by Level 3 Communications, LLC (Level 3), another communications and information services company. The conduit installation and fiber optic cable placement being conducted by Level 3 is described in Chapter 3. The Level 3 work is covered under a separate Certificate of Public Convenience and Necessity (CPCN) and is not part of the project, but is included in project figures to illustrate the extent of Metromedia's fiber optic system in the greater Los Angeles area. Metromedia would be responsible for the construction of the remainder of the route, which is the subject of further discussion within this chapter.

4.1 SAN FRANCISCO BAY AREA NETWORK

Table 4-1 links individual construction components of the San Francisco Bay Area Network with the affected jurisdictions. As shown in Table 4-1, the Backbone and the Pacific Bell Structure components are subdivided into segments for descriptive purposes. These segments are described below.

4.1.1 Backbone

Metromedia's San Francisco Bay Area Network Backbone involves construction of new conduit along the entire segment. The entire Backbone includes roughly 95 miles of new conduit installation. For descriptive purposes, the Backbone is subdivided into four distinct segments herein referred to as East Bay North, East Bay South, Peninsula North, and Peninsula South. Figure 4-1 delineates these segments.

4.0 Project Route Description

Table 4-1. Jurisdictions Affected by Construction Associated with Metromedia’s San Francisco Bay Area Network

	BACKBONE ^a				PACIFIC BELL STRUCTURE (CONDUIT REPAIR OR REPLACEMENT) ^b						
	No. of Point of Presence (POP) Sites	East Bay North	East Bay South	Peninsula North	Peninsula South	Marin County Segment	Walnut Creek Segment	Hayward Segment	Dumbarton Crossing Segment	Oakland Segment	Peninsula Segment
Berkeley						✓					
Dublin							✓				
Fremont	1	✓	✓								
Hayward	1	✓						✓			
Milpitas			✓								
Newark									✓		
Oakland	1	✓				✓				✓	
San Leandro		✓									
Union City		✓									
Unincorporated Areas		✓									
Contra Costa County											
Danville							✓				
Richmond						✓					
San Ramon							✓				
Walnut Creek							✓				
City and County of San Francisco											
San Francisco				✓							
Marin County											
Larkspur						✓					
San Rafael						✓					
Sausalito						✓					
San Mateo County											
Atherton					✓						
Belmont				✓							✓
Brisbane				✓							
Burlingame				✓							
Menlo Park					✓				✓		
Millbrae				✓							
Redwood City	1			✓	✓						✓
San Bruno				✓							
San Carlos				✓							
San Mateo	1			✓							
South San Francisco				✓							
Unincorporated Areas				✓	✓						
Santa Clara County											
Mountain View	1				✓						✓
Palo Alto	1				✓						
San Jose	1		✓		✓						✓
Santa Clara	1				✓						
Sunnyvale					✓						
^a Segments correspond to those shown in Figure 4-1. ^b Route corresponds to that shown in Figure 4-2.											

1 Table 4-2 describes the endpoints and major characteristics of each of these segments. The conduit
2 alignment would stay within railroad right-of-way for the length of each of these segments. Open-
3 trench construction is the preferred method of construction along each segment. However, as a
4 means of reducing environmental impacts in sensitive areas, Metromedia proposes to directional
5 bore at a number of sensitive streams and drainages, roadway crossings, utility crossings, and
6 sensitive archaeological and biological resource locations. Specific information on roadway
7 crossings and the associated type of construction is provided in section 6.15, Transportation and
8 Traffic. In addition, section 6.4, Biological Resources, provides detailed information on water
9 crossings.

10 In addition to conduit installation, Metromedia proposes to construct nine Point of Presence (POP)
11 sites as part of the Backbone. (See Chapter 3, Project Description, for a detailed description of
12 POPs.)

13 Figure 4-1 shows the general location of each POP site relative to the Backbone. Table 4-3 describes
14 the major characteristics of each of the nine POP sites, including the location, the type of POP,
15 whether diesel-powered emergency generators would be required, and the connection between the
16 POP site and the Backbone. In most cases, the POP sites are located adjacent to the railroad rights-
17 of-way in which conduit will be installed.

18 **4.1.2 Pacific Bell Structure**

19 The second component of the San Francisco Bay Area Network includes conduit repair or
20 replacement work within the existing Pacific Bell Structure to facilitate fiber pulling. The Pacific
21 Bell Structure to be utilized for this project is subdivided into six segments. These segments
22 include the following:

- 23 • The Marin County Segment, which extends north from Sausalito through Larkspur to San
24 Rafael, crosses the Richmond-San Rafael Bridge to Richmond, and continues south through
25 Berkeley to Oakland;
- 26 • The Oakland Segment in downtown Oakland;
- 27 • The Walnut Creek Segment, which extends northeast from Oakland to Walnut Creek and
28 continues southeast to Danville, San Ramon, and Dublin, and west toward Hayward;
- 29 • The Hayward Segment in Hayward;
- 30 • The Dumbarton Crossing Segment, which crosses the Bay from Fremont and Newark to Menlo
31 Park via the Dumbarton Bridge;

32 The Peninsula Segment, which approximately parallels the Peninsula Backbone route from San
33 Jose through Mountain View and Redwood City to Belmont.

34 The portions of the Pacific Bell Structure proposed for use by Metromedia are shown as yellow
35 lines on Figure 4-2. Environmental analysis of the Pacific Bell Structure focuses on the locations
36 that require conduit repair or replacement work (referred to as “new builds”). These locations are
37 numbered 1 through 32 on Figure 4-2 and are illustrated in the detail maps.

38 A description of the major characteristics of each Pacific Bell Structure segment where conduit
39 repair or replacement work would occur is provided in Table 4-4. Total conduit repair or

1 replacement work would occur over roughly 71,456 feet or 13.5 miles. The majority of the
2 locations in Table 4-4 are within public roadway rights-of-way. Where construction is necessary,
3 open-trenching is the preferred method of construction. However, directional boring is proposed
4 under sensitive streams and drainages, major intersections, and sensitive archaeological and
5 biological resource locations. Roadways in which construction would occur and the method of
6 construction are listed in Table 4-4. The new build locations described in Table 4-4 correspond to
7 those shown in Figure 4-2.

8 **4.2 LOS ANGELES BASIN NETWORK**

9 Table 4-5 links individual segments of the Los Angeles Basin Network in which conduit
10 installation would occur with the affected jurisdictions. As shown in Table 4-5, the Los Angeles
11 Basin Network is subdivided into segments for descriptive purposes. Figure 4-3 delineates these
12 segments.

13 Like Metromedia's San Francisco Bay Area Network Backbone, construction associated with the
14 Los Angeles Basin Network includes new conduit installation. The Los Angeles area conduit
15 installation differs from Metromedia's San Francisco Bay Area Network Backbone in that it would
16 occur within public roadway rights-of-way rather than in railroad rights-of-way. Only a few
17 segments along the Los Angeles Basin Network would include construction within a railroad
18 right-of-way.

19 Table 4-6 describes the major characteristics of each of the Los Angeles Basin Network segments.
20 Combined, conduit installation among these segments would occur over roughly 190 miles. Open-
21 trench construction is the primary method of construction along each of these segments. However,
22 as a means of reducing environmental impacts in sensitive areas, Metromedia proposes to
23 directional bore at a number of sensitive streams and drainages, roadway crossings, utility
24 crossings, and sensitive archaeological and biological resource locations. More specific
25 information on roadway crossings and the associated type of construction is provided in section
26 6.15, Transportation and Traffic. In addition, section 6.4, Biological Resources, provides detailed
27 information on water crossings. Table 4-6 describes the roadways in which conduit installation
28 would occur and the construction method. The Burbank Local and Hollywood Local segments
29 have also been included in Table 4-6, although these segments include primarily fiber pulling
30 through existing Pacific Bell conduit. Current duct searches for these segments suggest that only
31 minor conduit repair or replacement work would be necessary.

32 In addition to conduit installation, 15 POP sites would be developed as part of the Los Angeles
33 Basin Network. Each POP site would be constructed in an existing building leased by
34 Metromedia. The location of each POP site relative to the conduit installation is shown in Figure 4-
35 3. The major characteristics of each POP site, including name of city, name of adjacent segment,
36 street address or nearest intersection, type of POP, and emergency power requirement (diesel-
37 powered generator) are included in Table 4-7.

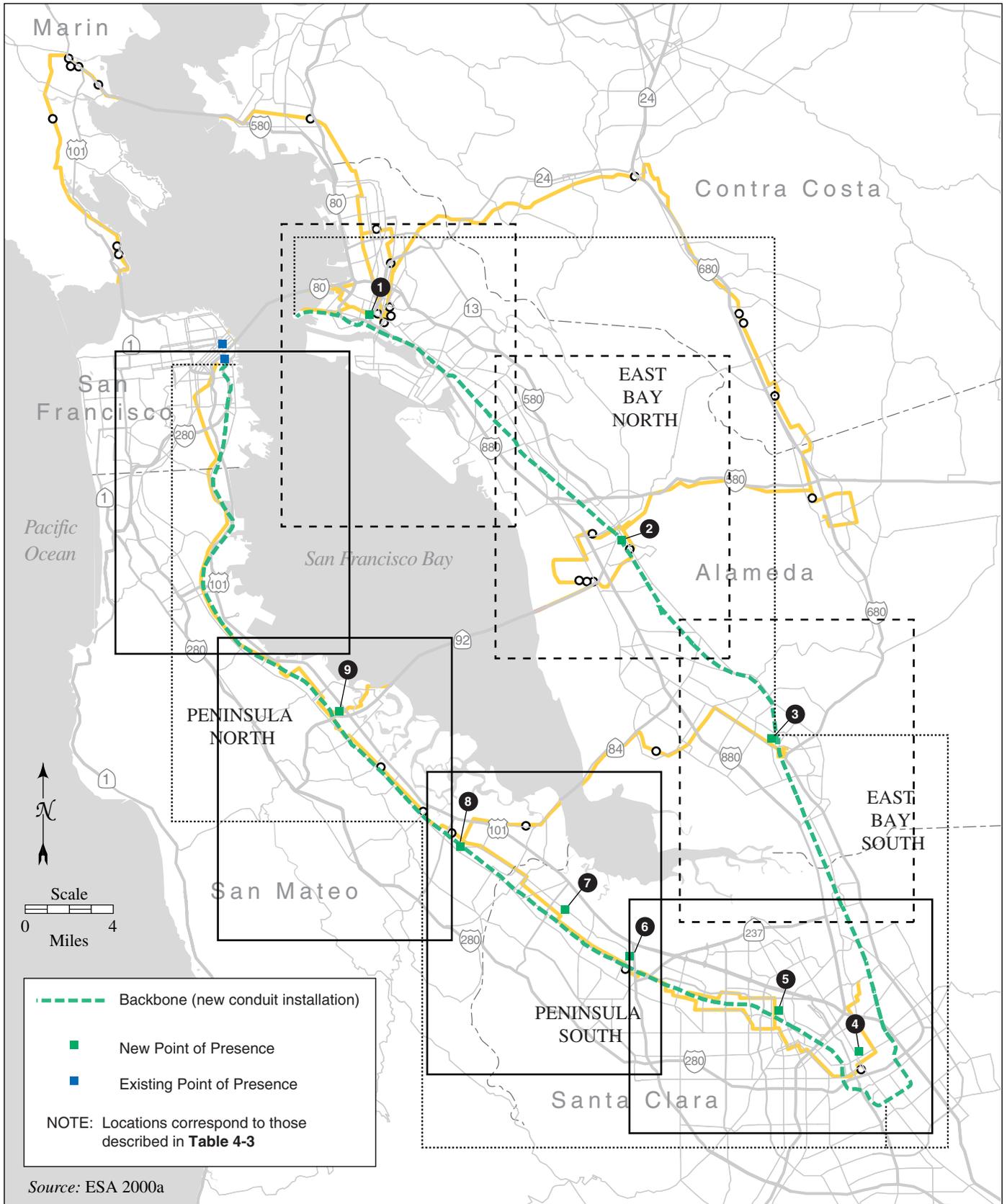


Figure 4-1. General Map of the San Francisco Bay Area Network Backbone and Point of Presence Sites

Table 4-2. Major Characteristics of the San Francisco Bay Area Network Backbone

Segment^a	RIGHT-OF-WAY MILES		Start Point	Terminus	Jurisdictions Crossed
	<i>Caltrain</i>	<i>Union Pacific</i>			
East Bay North	—	27.5	At a point on the Union Pacific Railroad line south of I-80 and west of I-880 in northwest Oakland.	Niles Junction on the Fremont Union Pacific railroad line between Mission Boulevard and Orchard Drive.	Oakland, San Leandro, Alameda County, Hayward, Union City, and Fremont.
East Bay South	—	20.0	Niles Junction on the Fremont Union Pacific Railroad line between Mission Boulevard and Orchard Drive.	At Luther Junction in San Jose between Almaden Road and Alma Street.	Fremont, Milpitas, and San Jose.
Peninsula North	24.3	—	4th Street and Berry Street in San Francisco. ^b	Redwood City Caltrain station between Jefferson Avenue and Broadway Street.	San Francisco, Brisbane, South San Francisco, San Bruno, Millbrae, Burlingame, San Mateo, Belmont, San Carlos, Redwood City, and San Mateo County.
Peninsula South	23.4	—	Redwood City Caltrain station between Jefferson Avenue and Broadway Street.	At Luther Junction in San Jose between Almaden Road and Alma Street.	Redwood City, San Mateo County, Atherton, Menlo Park, Palo Alto, Mountain View, Sunnyvale, and Santa Clara.
Backbone Total:	47.7	47.5			
<p>a Segments correspond to those shown in Figure 4-1.</p> <p>b The Backbone would connect to Metromedia’s existing POP site at 501 2nd Street via existing Pacific Bell conduit.</p>					

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Table 4-3. San Francisco Bay Area Network Point of Presence (POP) Sites^a

Location ^b	Site Address	POP Type ^c	Generator Required?	Connection to Backbone
OAKLAND				
1	1956 Webster Street ^d	III	No	The connection would follow Webster Street to 14 th Street, and then 14 th Street to Franklin Street. From here, the conduit would follow 12 th Street to Webster Street. At the end of Webster Street (near the Embarcadero), the conduit would connect to the Backbone.
HAYWARD				
2	25057 O'Neil Avenue	III	Yes	Adjacent to Backbone.
FREMONT				
3	Southwest corner of the Union Pacific Railroad/Washington Boulevard Intersection	III	Yes	Adjacent to Backbone.
SAN JOSE				
4	95 Market Street ^d	II	No	Connection unknown. ^e
SANTA CLARA				
5	Approximately 40 feet southwest of the track centerline and approximately 2,500 feet southeast of the Scott Boulevard overcrossing	III	Yes	Adjacent to Backbone.
MOUNTAIN VIEW				
6	Southeast corner of the Caltrain Railroad/South Shoreline Boulevard Intersection	III	No	Adjacent to Backbone.
PALO ALTO				
7	Southeast corner of the Caltrain Railroad/Page Mill Road Intersection	III	No	Adjacent to Backbone.
REDWOOD CITY				
8	Southeast corner of the Caltrain Railroad/State Route 84 Intersection	III	Yes	Adjacent to Backbone.
SAN MATEO				
9	Southwest corner of the Pacific Boulevard/State Route 92 Intersection	III	Yes	Adjacent to Backbone.

a Metromedia has already constructed two POP sites within the City of San Francisco. These POP sites are not included in the project evaluated in this environmental assessment. The Type III POP site located at 50 Beale Street does not contain a generator.

b Locations correspond to those shown in Figure 4-1. More detailed figures showing POP site locations and surrounding land uses are provided in section 5.7, Hazards and Hazardous Materials.

c A description of Type II and III POP sites is provided in Chapter 3, Project Description.

d The location of this POP site and its connection to the Backbone are shown in Figure 4-2. Unlike most other POP sites, this POP would be located within an existing building.

e Specific details on the connection from this POP site to the Backbone are unknown. However, the connection would occur via existing Pacific Bell conduit. The amount of conduit repair or replacement work required to provide such a connection is unknown at this time, but is expected to be minor.

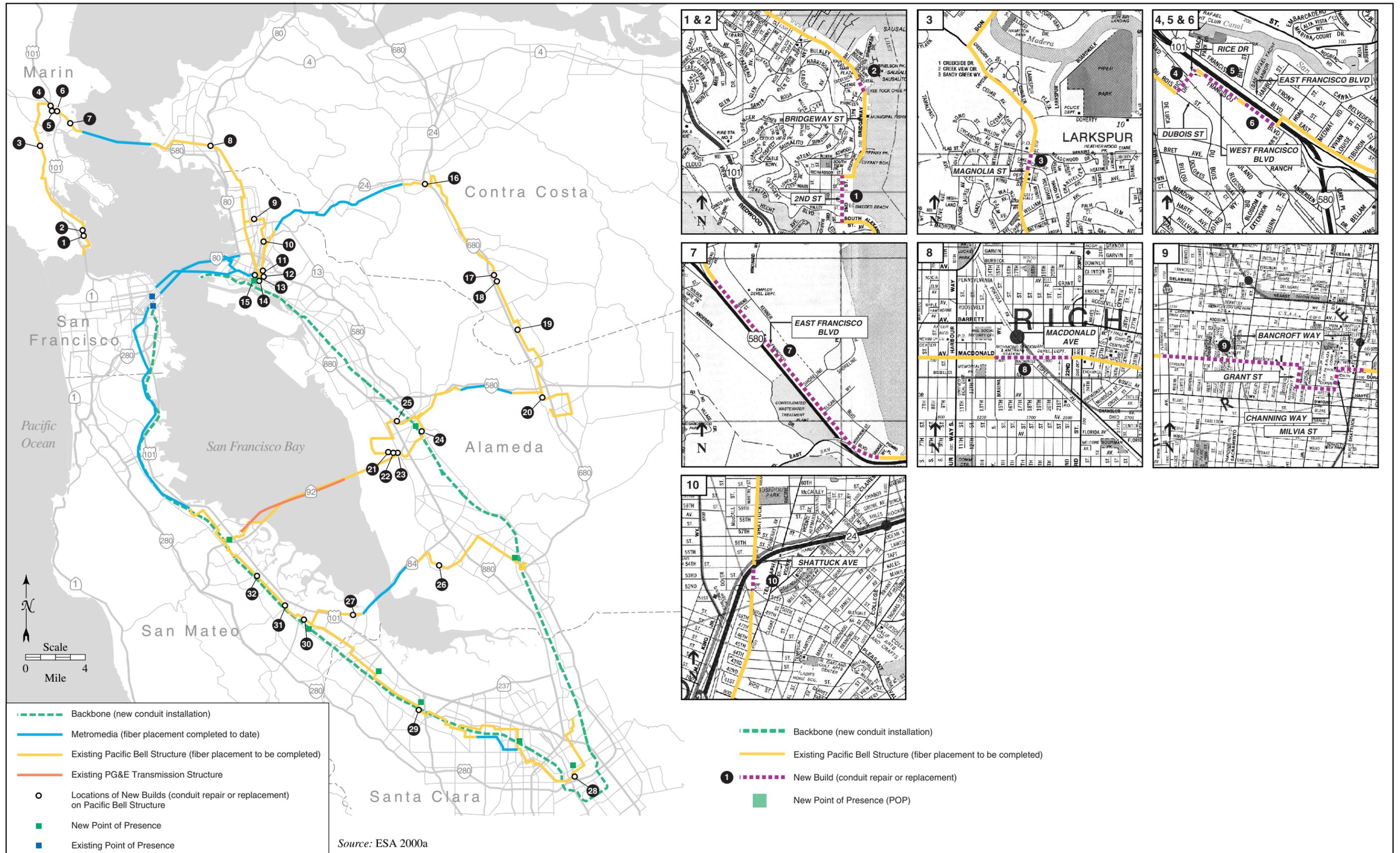


Figure 4-2a. Detail Map of the San Francisco Bay Area Network Pacific Bell Structure New Builds

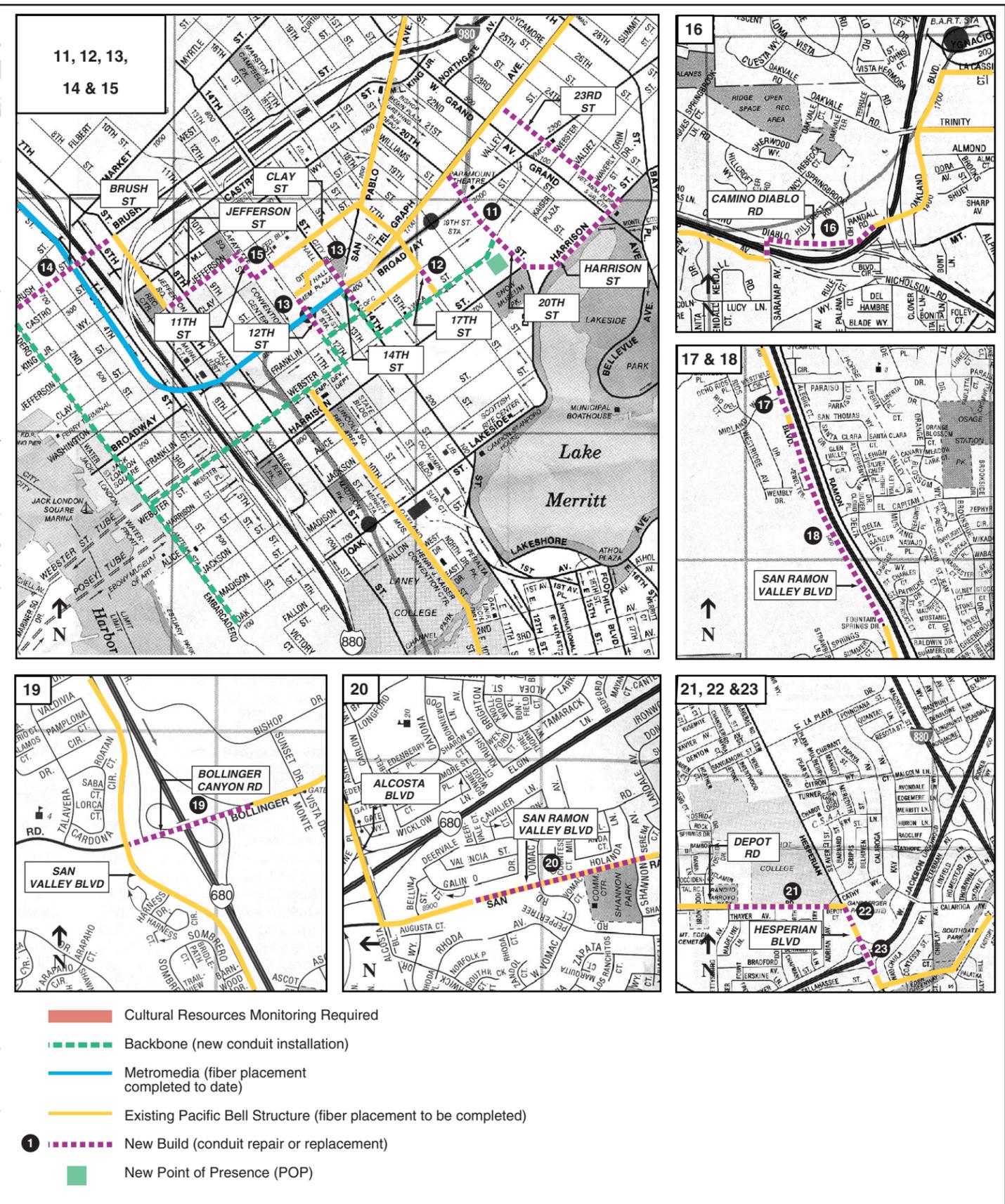
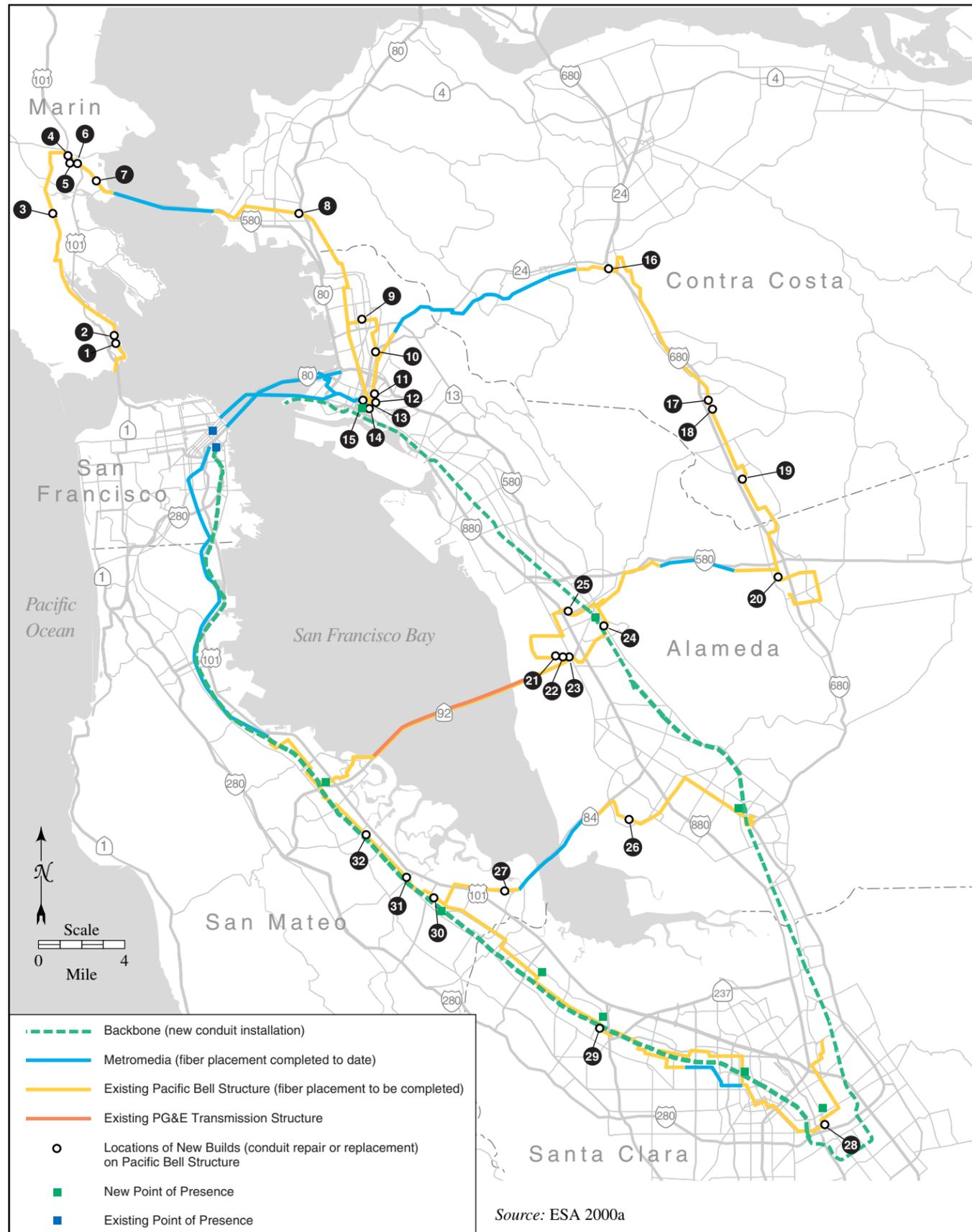


Figure 4-2b. Detail Map of the San Francisco Bay Area Network Pacific Bell Structure New Builds

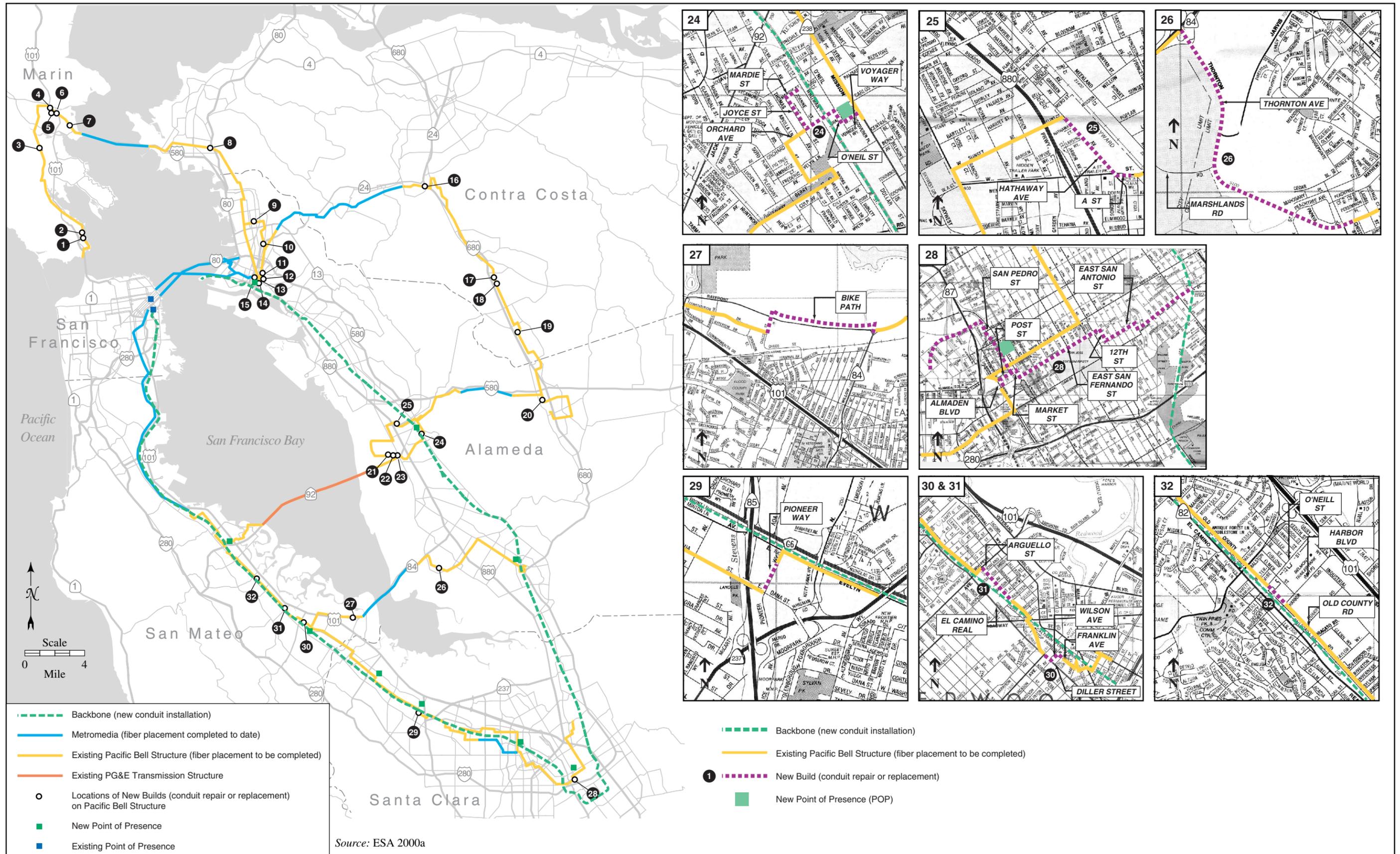


Figure 4-2c. Detail Map of the San Francisco Bay Area Network Pacific Bell Structure New Builds

Table 4-4. Construction Details for the Proposed Pacific Bell Structure Conduit Repair or Replacement Work for the San Francisco Bay Area Network (Page 1 of 5)

Jurisdiction/ Location ^a	Estimated Length (feet)	Street/Segment	Between	CONSTRUCTION METHOD		
				Open- Trench	Directional Bore	Directional Bore Locations
MARIN COUNTY SEGMENT						
<i>Sausalito</i>						
1	996	2 nd Street	Sausalito Boulevard and Richard Street	✓	✓	Culvert
2	221	Bridgeway Street	Princess Street and El Portal	✓		
<i>Larkspur</i>						
3	750	Magnolia Street	Ward Street and Cane Street	✓	✓	Cane Street; Ward Street
<i>San Rafael</i>						
4	546	Rice Drive	West Francisco Boulevard and Dubois Street	✓	✓	Rail Crossing; Culvert
5	1,102	West Francisco Boulevard	Rice Drive and a location on West Francisco Boulevard south of the East Francisco Boulevard/Bay Street intersection	✓	✓	Culvert
6	416	West Francisco Boulevard	A location east and south of the East Francisco Boulevard/Bay Street intersection and Baxter's Court	✓		
7	7,122	East Francisco Boulevard	Castro Avenue and Grange Way	✓	✓	Estudillo Canal; Culvert
<i>Richmond</i>						
8	2,300	Mac Donald Avenue	22 nd Street and Marina Way	✓		
<i>Berkeley</i>						
9	9,272	Bancroft Way	Tenth Street and Grant Street	✓		
		Grant Street	Bancroft Way and Channing Way	✓		
		Channing Way	Grant Street and Milvia Street	✓		
		Milvia Street	Channing Way and Bancroft Way	✓		

Table 4-4. Construction Details for the Proposed Pacific Bell Structure Conduit Repair or Replacement Work for the San Francisco Bay Area Network (Page 2 of 5)

Jurisdiction/ Location ^a	Estimated Length (feet)	Street/Segment	Between	CONSTRUCTION METHOD		
				Open- Trench	Directional Bore	Directional Bore Locations
		Bancroft Way	Milvia Street and Shattuck Avenue	✓	✓	Shattuck Avenue
<i>Oakland</i>						
10	735	Shattuck Avenue	52 nd and 54 th Streets	✓		
OAKLAND SEGMENT						
<i>Oakland</i>						
11	4,327	23 rd Street	Telegraph Avenue and Harrison Street	✓		
		Harrison Street	23 rd and 20 th Streets	✓		
		20 th Street	Harrison Street and Telegraph Avenue	✓		
12	120	17 th Street	Franklin Street and Webster Street	✓		
13 ^b	1,064	14 th Street	Franklin Street and Washington Street	✓		
		12 th Street	Washington Street and Franklin Street	✓		
14	1,593	Brush Street	7 th Street and 114 Brush Street (just north of Embarcadero)	✓		
15	1,825	Jefferson Street	7 th and 11 th Streets	✓		
		11 th Street	Jefferson Street and Clay Street	✓		
		Clay Street	11 th and 12 th Streets	✓		
WALNUT CREEK SEGMENT						
<i>Walnut Creek</i>						
16	2,000	Camino Diablo Road	SR 24 Eastbound on-ramp and Hillcrest Road	✓	✓	SR 24
<i>Danville</i>						
17	988	San Ramon Valley Road	Locations just north and south of Midland Way	✓		
18	2,356	San Ramon Valley Road	Location just south of Midland Way and Fountain Springs Drive	✓	✓	3 culverts

Table 4-4. Construction Details for the Proposed Pacific Bell Structure Conduit Repair or Replacement Work for the San Francisco Bay Area Network (Page 3 of 5)

Jurisdiction/ Location ^a	Estimated Length (feet)	Street/Segment	Between	CONSTRUCTION METHOD		
				Open- Trench	Directional Bore	Directional Bore Locations
<i>San Ramon</i>						
19	1,513	Bollinger Canyon Road	Sunset Drive and San Ramon Valley Boulevard	✓		
<i>Dublin</i>						
20	3,582	San Ramon Valley Road	Bellina Street and Shannon Avenue	✓		
HAYWARD SEGMENT						
<i>Hayward</i>						
21	2,006	Depot Road	Gettysburg Avenue and Adrian Avenue	✓		
22	205	Hesperian Boulevard	Depot Court and Highway 92 Westbound On-ramp	✓		
23	861	Hesperian Boulevard	Highway 92 Eastbound On-ramp and Highway 92 Westbound On-ramp	✓		
24	1,723	Mardie Street	Whitman Street and Joyce Street	✓		
		Joyce Street	Mardie Street and Orchard Avenue	✓		
		Orchard Avenue	Joyce Street and O'Neil Avenue		✓	Entire segment
		O'Neil Avenue	Orchard Avenue and Unpaved Ground		✓	Entire segment
		Unpaved Ground	O'Neil Avenue and Mission Boulevard		✓	Entire segment
25	2,795	Hathaway Avenue	Flint Court and A Street	✓		
		A Street	Hathaway Avenue and Santa Clara Street	✓		
DUMBARTON CROSSING SEGMENT						
<i>Newark</i>						
26	9,700	Thorton Avenue	Chestnut Street and Highway 84		✓	Entire segment

Table 4-4. Construction Details for the Proposed Pacific Bell Structure Conduit Repair or Replacement Work for the San Francisco Bay Area Network (Page 4 of 5)

Jurisdiction/ Location ^a	Estimated Length (feet)	Street/Segment	Between	CONSTRUCTION METHOD		
				Open- Trench	Directional Bore	Directional Bore Locations
<i>Menlo Park</i>						
27	5,660	Chilco Street	Constitution Drive and Bike path parallel to Bayshore Parkway	✓		
		Bike path parallel to Bayshore Parkway	Chilco Street and Willow Road	✓		
PENINSULA SEGMENT						
<i>San Jose</i>						
		San Pedro	Bassett Street and Post Street	✓		
		Post Street	San Pedro and Alameda And San Pedro and Market	✓		
		Market Street	Post Street and San Fernando Street	✓		
		San Fernando Street	Market Street and 12 th Street	✓	✓	Electric Vault, 1 st , 2 nd , and 3 rd Street brick crossings
		12 th Street	San Fernando Street and E. San Antonio	✓		
		E. San Antonio	12 th and 17 th Streets	✓		
		17 th Street	E. San Antonio and San Antonio	✓		
		San Antonio	17 th and 26 th Street	✓	✓	Coyote Creek
<i>Mountain View</i>						
29	573	Pioneer Way	E. Dana Street and Evelyn Avenue	✓		
<i>Redwood City</i>						
30	825	Franklin Avenue	Diller Street and Wilson Avenue	✓		
		Wilson Avenue	Franklin Avenue and El Camino Real	✓		
		El Camino Real	Wilson Avenue and Jefferson Avenue	✓		

Table 4-4. Construction Details for the Proposed Pacific Bell Structure Conduit Repair or Replacement Work for the San Francisco Bay Area Network (Page 5 of 5)

<i>Jurisdiction/ Location^a</i>	<i>Estimated Length (feet)</i>	<i>Street/Segment</i>	<i>Between</i>	CONSTRUCTION METHOD		
				<i>Open- Trench</i>	<i>Directional Bore</i>	<i>Directional Bore Locations</i>
31	1,711	Arguello Street	Brewster Avenue and Whipple Avenue	✓		
<i>Belmont</i>						
32	605	Old County Road	Harbor Boulevard and O'Neill Street	✓		
TOTAL	71,456					
<p>a Locations correspond to those shown in Figure 4-2.</p> <p>b The fiber connection between 12th and 14th Streets in downtown Oakland would occur within an existing underground conduit and would not require any new construction.</p>						

4.0 Project Route Description

Table 4-5. Jurisdictions Affected by Construction Associated with Metromedia’s Los Angeles Basin Network

	Burbank Local Segment	Pasadena Local Segment	Santa Monica Local Segment	Glendale Local Segment	Century City Local Segment	Santa Monica to Burbank Segment	Hollywood Local Segment	Marina Del Rey Local Segment	LAX/Florence Segment	LAX Segment	El Segundo Segment	Long Beach/Downey Segment	Cypress/Buena Park Segment	Fashion Island Segment	Carson/Costa Mesa Segment	Irvine Segment	Costa Mesa Segment	Downtown Los Angeles Segment	No. of Point of Presence (POP) Sites
LOS ANGELES COUNTY																			
Bellflower												◁							
Beverly Hills					◁		◁												
Burbank																			1
Downey												◁							1
El Segundo											◁								1
Glendale				◁															1
Hawthorne									◁										
Huntington Park									◁										
Inglewood									◁										
Lakewood												◁			◁				
Long Beach												◁			◁				1
Los Angeles	◁		◁		◁	◁	◁	◁	◁	◁					◁			◁	5
Norwalk													◁						
Pasadena		◁																	1
Santa Monica			◁																
West Hollywood							◁												
Unincorporated Areas									◁										
ORANGE COUNTY																			
Anaheim													◁						
Buena Park													◁						1
Carson																			1
Costa Mesa																	◁		
Cypress															◁				
Garden Grove															◁				
Irvine														◁	◁	◁			2
Los Alamitos															◁				
Newport Beach																◁			
Santa Ana															◁		◁		
Stanton													◁						
Westminster															◁				

Table 4-6. Construction Details for the Proposed Conduit Installation for the Los Angeles Basin Network^a

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Approx. Length (miles)	Street/Segment	Between	CONSTRUCTION METHOD		
			Open-Trench	Directional Bore	Directional Bore Locations
BURBANK LOCAL SEGMENT (Crosses the jurisdiction of Los Angeles)					
5.3 miles	N. Lankershim Boulevard	W. Victory Boulevard and W. Magnolia Boulevard	✓		
	W. Magnolia Boulevard	N. Lankershim Boulevard and Bakman Street	✓		
	Bakman Street	W. Magnolia Boulevard and Otsego Street	✓		
	Otsego Street	Bakman and N. Lankershim Boulevard	✓		
	N. Lankershim Boulevard	Otsego Street and Cahuenga Boulevard	✓		
	Cahuenga Boulevard	N. Lankershim Boulevard and Barham Boulevard	✓		
PASADENA LOCAL SEGMENT (Crosses the jurisdiction of Pasadena)					
4.2 miles	N. Los Robles Avenue	I-210 and E. Orange Grove Boulevard	✓	✓	All signalized intersections
	E. Orange Grove Boulevard	N. Los Robles Avenue and N. Lake Avenue	✓	✓	All signalized intersections
	N. Lake Avenue	E. Orange Grove Boulevard and E. Washington Boulevard	✓	✓	All signalized intersections
	E. Washington Boulevard	N. Lake Avenue and N. Altadena Drive	✓	✓	All signalized intersections
	N. Altadena Drive	E. Washington Boulevard and New York Drive	✓	✓	All signalized intersections
	New York Drive	N. Altadena Drive and Bradley Street	✓	✓	All signalized intersections
SANTA MONICA LOCAL SEGMENT (Crosses the jurisdictions of Los Angeles and Santa Monica)					
8.3 miles	E. Wilshire Boulevard	S. Farrington Street and Centinela Street	✓	✓	All signalized intersections
	Centinela Street	E. Wilshire Boulevard and Arizona Street	✓	✓	All signalized intersections
	Arizona Street	Centinela Street and S. Ocean Avenue	✓	✓	All signalized intersections
	S. Ocean Avenue	Arizona Street and W. Pico Street	✓	✓	All signalized intersections
	W. Pico Street	S. Ocean Avenue and Main Street	✓	✓	All signalized intersections
	Main Street	Pico Street and Broadway Street	✓	✓	All signalized intersections
	2 nd Street	Colorado Avenue and Broadway Street	✓	✓	All signalized intersections
	Broadway Street	Main Street and 26 th Street	✓	✓	All signalized intersections
	7 th Street	Broadway Street and Arizona Street	✓	✓	All signalized intersections
	26 th Street	Broadway Street and Colorado Street	✓	✓	All signalized intersections
Colorado Street	26 th Street and Stewart Street	✓	✓	All signalized intersections	

Table 4-6. Construction Details for the Proposed Conduit Installation for the Los Angeles Basin Network^a

(Page 2 of 9)

Approx. Length (miles)	Street/Segment	Between	CONSTRUCTION METHOD		
			Open-Trench	Directional Bore	Directional Bore Locations
SANTA MONICA LOCAL SEGMENT (Crosses the jurisdictions of Los Angeles and Santa Monica)					
	Stewart Street	Colorado Street and W. Olympic Boulevard	✓	✓	All signalized intersections
	W. Olympic Boulevard	Stewart Street and S. Sawtelle Boulevard	✓	✓	All signalized intersections
GLENDALE LOCAL SEGMENT (Crosses the jurisdiction of Glendale)					
2.4 miles	N. Brand Street	E. Broadway Street and E. Harvard Street	✓	✓	All signalized intersections
	E. Harvard Street	N. Brand Street and S. Central Avenue	✓	✓	All signalized intersections
	S. Central Avenue	E. Harvard Street and Doran Street	✓	✓	All signalized intersections
	Doran Street	S. Central Avenue and S. Glendale Avenue	✓	✓	All signalized intersections
	S. Glendale Avenue	Doran Street and E. Broadway Street	✓	✓	All signalized intersections
CENTURY CITY LOCAL SEGMENT (Crosses the jurisdictions of Beverly Hills and Los Angeles)					
7.4 miles	W. Olympic Boulevard	S. Sawtelle Boulevard and S. Beverly Glen Boulevard		✓	Entire segment, except at Sawtelle Boulevard
	S. Beverly Glen Boulevard	W. Olympic Boulevard and W. Pico Boulevard		✓	Entire segment
	W. Pico Boulevard	S. Beverly Glen Boulevard and Avenue of the Stars		✓	Entire segment, except at Motor Avenue and Avenue of the Stars
	Constellation Boulevard	Century Park East and Avenue of the Stars	✓		
	Century Park East	Olympic Boulevard and Galaxy Way	✓		
	Galaxy Way	Century Park East and Avenue of the Stars	✓		
	Avenue of the Stars	W. Pico Boulevard and W. Santa Monica Boulevard		✓	Entire segment, except at Constellation Boulevard
	W. Santa Monica Boulevard	Avenue of the Stars and W. Wilshire Boulevard		✓	Entire segment
SANTA MONICA TO BURBANK SEGMENT (Crosses the jurisdiction of Los Angeles)					
22.0 miles	W. Victory Boulevard	N. Cahuenga Boulevard and St. Clair Avenue		✓	Entire Segment
	St. Clair Avenue	W. Victory Boulevard and W. Vanowen Street		✓	Entire Segment
	W. Vanowen Street	St. Clair Avenue and Kester Avenue		✓	Entire segment, except at the Van Owen Street/Fulton Avenue intersection

Table 4-6. Construction Details for the Proposed Conduit Installation for the Los Angeles Basin Network^a

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Approx. Length (miles)	Street/Segment	Between	CONSTRUCTION METHOD		
			Open-Trench	Directional Bore	Directional Bore Locations
SANTA MONICA TO BURBANK SEGMENT (Crosses the jurisdiction of Los Angeles)					
	Kester Avenue	W. Vanowen Street and Greenleaf Street		✓	Entire segment, except at the Kester Avenue/Ventura Boulevard intersection
	Greenleaf Street	Kester Avenue and Noble Avenue		✓	Entire segment
	Noble Avenue	Greenleaf Street and Valley Vista Boulevard		✓	Entire segment, except at the Noble Avenue/Greenleaf Street intersection
	Valley Vista Boulevard	Noble Avenue and Woodcliff Road		✓	Entire segment
	Woodcliff Road	Valley Vista Boulevard and Mulholland Drive		✓	Entire segment, except at the Woodcliff Road/Del Gado intersection
	Mulholland Drive	Woodcliff Road and Beverly Glen Boulevard		✓	Entire segment
	Beverly Glen Boulevard	Mulholland Drive and W. Wilshire Boulevard	✓	✓	Entire segment, except at the Beverly Glen Boulevard/Sunset Boulevard Intersection
HOLLYWOOD LOCAL SEGMENT (Crosses the jurisdictions of Beverly Hills, Los Angeles, and West Hollywood)					
16.3 miles	2 nd Street	Beaudry Avenue and Beverly Boulevard	✓		
	Glendale Boulevard	Beverly Boulevard and Park Avenue	✓		
	Sunset Boulevard	Park Avenue and Bates Avenue	✓		
	Bates Avenue	Sunset Boulevard and Effie Street	✓		
	Talmadge Street	Effie Street and Franklin Avenue	✓		
	Franklin Avenue	Talmadge Street and Vermont Avenue	✓		
	Vermont Avenue	Franklin Avenue and Sunset Boulevard	✓		
	Sunset Boulevard	Vermont Avenue and Alexandria Avenue	✓		
	Alexandria Avenue	Sunset Boulevard and Fountain Avenue	✓		
	Fountain Avenue	Alexandria Avenue and Van Ness Avenue	✓		
	Van Ness Avenue	Fountain Avenue and Melrose Avenue	✓		
	Melrose Avenue	Van Ness Avenue and Gower Street	✓		
	Gower Street	Melrose Avenue and Sunset Boulevard	✓		
Sunset Boulevard	N. Gower Street and Seward Street	✓			

Table 4-6. Construction Details for the Proposed Conduit Installation for the Los Angeles Basin Network^a

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Approx. Length (miles)	Street/Segment	Between	CONSTRUCTION METHOD		
			Open-Trench	Directional Bore	Directional Bore Locations
	Seward Street	Sunset Boulevard and De Longpre Avenue	✓		
HOLLYWOOD LOCAL SEGMENT (continued)					
	Formosa Street	De Longpre Avenue and Sunset Boulevard	✓		
	Sunset Boulevard	Formosa Street and Gardner Street		✓	Sunset Boulevard/Formosa Street intersection
	Gardner Street	Sunset Boulevard and Santa Monica Boulevard	✓		
	Santa Monica Boulevard	Gardner Boulevard and Laurel Avenue	✓		
	Laurel Avenue	Santa Monica Boulevard and Melrose Avenue	✓		
	Melrose Avenue	Laurel Avenue and Fairfax Street	✓		
	Fairfax Street	Melrose Avenue and Beverly Drive	✓		
	Beverly Boulevard	Fairfax Street and Civic Center Drive	✓		
	Civic Center Drive	Beverly Boulevard and Foothill Drive	✓		
	Foothill Drive	Civic Center Drive and Alden Drive	✓		
	Alden Drive	Foothill Drive and Maple Drive	✓		
MARINA DEL REY LOCAL SEGMENT (Crosses the jurisdiction of Los Angeles)					
4.3 miles	Marshall Street	Inglewood Avenue and S. Centinela Avenue	✓	✓	All signalized intersections
	S. Centinela Avenue	Dr Marshall and Craddock Street	✓	✓	All signalized intersections
	Braddock Drive	S. Centinela Avenue and Culver Boulevard	✓	✓	All signalized intersections
	Culver Boulevard	Craddock Street and Highway 1	✓	✓	All signalized intersections
	Lincoln Blvd (Hwy 1)	Culver Boulevard and Fiji Way	✓	✓	All signalized intersections
	Fiji Way	Highway 1 and La Villa Marina	✓	✓	All signalized intersections
	La Villa Marina	Fiji Way and Mindanao Way	✓	✓	All signalized intersections
	Mindanao Way	La Villa Marina and Glencoe Street	✓	✓	All signalized intersections
	Glencoe Street	Mindanao Way and Walon Street	✓	✓	All signalized intersections
	Walon Street	Glencoe Street and S. Centinela Street	✓	✓	All signalized intersections
	Culver Boulevard	S. Centinela Street and Inglewood Avenue	✓	✓	All signalized intersections

Table 4-6. Construction Details for the Proposed Conduit Installation for the Los Angeles Basin Network^a

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LAX/FLORENCE SEGMENT (Crosses the jurisdictions of Hawthorne, Huntington Park, Inglewood, Los Angeles, and Los Angeles County)					
12.1 miles	El Segundo Boulevard	Aviation Boulevard and Hawthorne Boulevard	✓	✓	All signalized intersections
	Hawthorne Boulevard	El Segundo Boulevard and Century Boulevard	✓	✓	All signalized intersections
	La Brea Avenue	Century Boulevard and Florence Avenue	✓	✓	All signalized intersections
	Florence Avenue	La Brea Avenue and Santa Fe Avenue	✓	✓	All signalized intersections
	Santa Fe Avenue	Florence Avenue and Saturn Avenue	✓	✓	All signalized intersections
LAX SEGMENT (Crosses the jurisdiction of Los Angeles)					
2.1 miles	Airport Boulevard	Arbor Vitae Street and W. 96 th Street	✓	✓	All signalized intersections
	W. 96 th Street	Airport Boulevard and Highway 1	✓	✓	All signalized intersections
	Highway 1	W. 96 th Street and W. Century Boulevard	✓	✓	All signalized intersections
	W. Century Boulevard	Highway 1 and Aviation Boulevard	✓	✓	All signalized intersections
EL SEGUNDO SEGMENT (Crosses the jurisdiction of El Segundo)					
6.8 miles	E. Imperial Avenue	Aviation Boulevard and Highway 1	✓	✓	All signalized intersections
	Highway 1	E. Imperial Avenue and E. El Segundo Boulevard	✓	✓	All signalized intersections
	E. El Segundo Boulevard	Highway 1 and Aviation Boulevard	✓	✓	All signalized intersections
	E. Maple Avenue	Highway 1 and Lairport Street	✓	✓	All signalized intersections
	Lairport Street	E. Maple Avenue and E. El Segundo Boulevard	✓	✓	All signalized intersections
	E. Mariposa Avenue	Highway 1 and N. Douglas Street	✓	✓	All signalized intersections
	N. Douglas Street	E. Mariposa Avenue and E. El Segundo Boulevard	✓	✓	All signalized intersections
	E. Grand Avenue	Highway 1 and N. Nash Street	✓	✓	All signalized intersections
	N. Nash Street	E. Grand Avenue and E. Mariposa Avenue	✓	✓	All signalized intersections
LONG BEACH/DOWNEY SEGMENT (Crosses the jurisdictions of Bellflower, Downey, Lakewood, and Long Beach)					
8.0 miles	Bellflower Boulevard	Lakewood Boulevard and E. Carson Street	✓	✓	All signalized intersections
	Front Street	San Antonio Boulevard and Pioneer Boulevard	✓	✓	All signalized intersections
	Downey Avenue	Burns and 2 nd Street	✓	✓	All signalized intersections
	2 nd Street	Downey Avenue and Avenida Reina	✓	✓	All signalized intersections
	Avenida Reina	2 nd Street and Burns	✓	✓	All signalized intersections

Table 4-6. Construction Details for the Proposed Conduit Installation for the Los Angeles Basin Network^a

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CYPRESS/BUENA PARK SEGMENT (Crosses the jurisdictions of Norwalk, Anaheim, Stanton, and Buena Park)					
7.7 miles	Knott Street	Artesia Boulevard and Katella Avenue	✓	✓	All signalized intersections
	Artesia Boulevard	S. Knott Avenue and Paper Grand	✓	✓	All signalized intersections
	Paper Grand	Artesia Boulevard and Whitaker Avenue	✓	✓	All signalized intersections
	Alondra Boulevard	Firestone Boulevard and Shoemaker Avenue	✓	✓	All signalized intersections
	Shoemaker Avenue	Alondra Boulevard and Firestone Boulevard	✓	✓	All signalized intersections
FASHION ISLAND SEGMENT (Crosses the jurisdiction of Irvine)					
14.2 miles	Barranca Parkway	Murphy Avenue and Culver Drive	✓	✓	All signalized intersections
	Culver Drive	Barranca Parkway and Irvine Center Road	✓	✓	All signalized intersections
	Irvine Center Road	Culver Drive and Barranca Parkway	✓	✓	All signalized intersections
	Barranca Parkway	Irvine Center Road and Ada Street	✓	✓	All signalized intersections
	Ada Street	Barranca Parkway and Alton Parkway	✓	✓	All signalized intersections
	Alton Parkway	Ada Street and Technology Drive	✓	✓	All signalized intersections
	Technology Drive	Alton Parkway and Alton Parkway	✓	✓	All signalized intersections
	Alton Parkway	Technology Drive and Murphy Avenue	✓	✓	All signalized intersections
CARSON/COSTA MESA SEGMENT (Crosses the jurisdictions of Cypress, Irvine, Lakewood, Long Beach, Los Alamitos, Los Angeles, Garden Grove, Santa Ana, and Westminster)					
37 miles	Santa Fe Avenue	E. Dominguez and E. Willow Street	✓	✓	All signalized intersections
	W. Willow Street	Santa Fe Avenue and N. Pacific Avenue	✓	✓	All signalized intersections
	N. Pacific Avenue	W. Willow Street and W. Broadway Avenue	✓	✓	All signalized intersections, except at 7th Street
	W. Broadway Avenue	N. Pacific Avenue and Golden Avenue	✓	✓	All signalized intersections
	Golden Avenue	W. Broadway and W. Ocean Boulevard	✓	✓	All signalized intersections
	W. Ocean Boulevard	Golden Avenue and Linden Avenue	✓	✓	All signalized intersections
	Linden Avenue	E. Ocean Boulevard and E. Broadway Avenue	✓	✓	All signalized intersections
	E. Broadway Avenue	Linden Avenue and N. Alamitos Avenue	✓	✓	All signalized intersections, except at Alamitos Avenue
	N. Alamitos Avenue	E. Broadway and E. 3 rd Street	✓	✓	All signalized intersections
	E. 3 rd Street	N. Alamitos Avenue and Junipero Avenue	✓	✓	All signalized intersections
	Junipero Avenue	E. 3 rd Street and E. 7 th Street	✓	✓	All signalized intersections
	E. 7 th Street	Junipero Avenue and Termino Street	✓	✓	All signalized intersections

Table 4-6. Construction Details for the Proposed Conduit Installation for the Los Angeles Basin Network^a

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Termino Street	E. 7 th Street and E. 15 th Street	✓	✓	All signalized intersections
E. 15 th Street	Termino Street and Ximeno Avenue	✓	✓	All signalized intersections
Ximeno Avenue	E. 15 th Street and E. Atherton Avenue	✓	✓	All signalized intersections
E Atherton Avenue	Ximeno Street and Clark Avenue	✓	✓	All signalized intersections
CARSON/COSTA MESA SEGMENT (continued)				
Clark Avenue	E. Atherton and E. Carson Street	✓	✓	All signalized intersections, except at N. Los Coyotes Diagonal, Spring Street, and E. Carson Street
E. Carson Street	Clark Street and N. Los Coyotes Diagonal	✓	✓	All signalized intersections, except at Bellflower Boulevard and N. Los Coyotes Diagonal
N. Los Coyotes Diagonal	E. Carson Street and N. Studebaker Road	✓	✓	All signalized intersections
N. Studebaker Road	N. Los Coyotes Diagonal and E. Spring Street	✓	✓	All signalized intersections
E. Spring Street	N. Studebaker Road and Cerritos Avenue	✓	✓	All signalized intersections
Cerritos Avenue	E. Spring Street and Holder Street	✓	✓	All signalized intersections
Holder Street	Cerritos Avenue and Katella Avenue	✓	✓	All signalized intersections, except at Katella Avenue
Katella Avenue	Holder Street and Knott Street	✓	✓	All signalized intersections, except at Knott Street
Knott Street	Katella Avenue and Golden West Street	✓	✓	All signalized intersections
Golden West Street	Knott Street and Humboldt Avenue	✓	✓	All signalized intersections
Humboldt Avenue	Golden West Street and La Pat Street	✓		
La Pat Street	Humboldt Avenue and Westminster Boulevard	✓		
Westminster Boulevard	La Pat Street and Hoover Street	✓	✓	All signalized intersections
Hoover Street	Westminster Boulevard and Bolsa Avenue	✓	✓	All signalized intersections
Bolsa Avenue	Hoover Street and Harbor Blvd	✓	✓	All signalized intersections
W. First Street	Harbor Boulevard and Fairview Street	✓	✓	All signalized intersections
Fairview Street	W. First Street and Alton Avenue	✓	✓	All signalized intersections
Alton Avenue	Fairview Street and Bristol Street	✓	✓	All signalized intersections
Bristol Street	Alton Avenue and W. MacArthur Boulevard	✓		
W. MacArthur Boulevard	Bristol Street and Red Hill Avenue	✓	✓	All signalized intersections
Red Hill Avenue	W. MacArthur Boulevard and Reynolds Avenue	✓	✓	All signalized intersections
Reynolds Avenue	Red Hill Avenue and Armstrong Avenue	✓	✓	All signalized intersections
Armstrong Avenue	Reynolds Avenue and Alton Parkway	✓	✓	All signalized intersections

Table 4-6. Construction Details for the Proposed Conduit Installation for the Los Angeles Basin Network^a

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IRVINE SEGMENT (Crosses the jurisdictions of Irvine and Newport Beach)					
17.8 miles	Red Hill Avenue	MacArthur Boulevard and Mitchell N.	✓	✓	All signalized intersections
	Mitchell N.	Red Hill Avenue and Sky Parkway	✓	✓	All signalized intersections
	Sky Parkway	Mitchell N. and Center Drive	✓	✓	All signalized intersections
	Center Drive	Sky Parkway and Main Street	✓	✓	All signalized intersections
	Main Street	Center Drive and Jamboree Boulevard	✓	✓	All signalized intersections
	Jamboree Boulevard	Main Street and McGaw Avenue	✓	✓	All signalized intersections
	McGaw Avenue	Jamboree Boulevard and Murphy Avenue	✓	✓	All signalized intersections
	Murphy Avenue	McGaw Avenue and Barranca Parkway	✓	✓	All signalized intersections
	Barranca Parkway	Murphy Avenue and Jamboree Boulevard	✓	✓	All signalized intersections
	Jamboree Boulevard	Barranca Parkway and Alton Parkway	✓	✓	All signalized intersections
	Jamboree Boulevard	Main Street and Fairchild Road	✓	✓	All signalized intersections
	Fairchild Road	Jamboree Boulevard and MacArthur Boulevard	✓	✓	All signalized intersections
	Alton Parkway	Jamboree Boulevard and Armstrong Avenue	✓	✓	All signalized intersections
	Armstrong Avenue	Alton Parkway McGaw Avenue	✓	✓	All signalized intersections
	Von Karman Avenue	Main Street and MacArthur Boulevard	✓	✓	All signalized intersections
	Dupont Drive	Von Karmon Avenue and San Miguel Drive	✓	✓	All signalized intersections
	MacArthur Boulevard	Dupont Drive and San Miguel Drive	✓	✓	All signalized intersections
	Jamboree Road	MacArthur Boulevard and Santa Barbara Drive	✓	✓	All signalized intersections
	Santa Barbara Drive	Jamboree Boulevard and Newport Center Drive	✓	✓	All signalized intersections
Newport Center Drive	Santa Barbara Drive and San Miguel Drive	✓	✓	All signalized intersections	
San Miguel Drive	Newport Center Drive and MacArthur Boulevard	✓	✓	All signalized intersections	
COSTA MESA SEGMENT (Crosses the jurisdictions of Costa Mesa and Santa Ana)					
4.3 miles	Flower Street	MacArthur Boulevard and Sunflower Avenue	✓	✓	All signalized intersections
	Sunflower Avenue	Flower Street and Park Center Drive	✓	✓	All signalized intersections
	Park Center Drive	Sunflower Avenue and Bristol Street	✓	✓	All signalized intersections
	Bristol Street	Park Center Drive and Anton Boulevard	✓	✓	All signalized intersections
	Anton Boulevard	Bristol Street and Sunflower Avenue	✓	✓	All signalized intersections
	Sunflower Avenue	Anton Boulevard and Main Street	✓	✓	All signalized intersections

Table 4-6. Construction Details for the Proposed Conduit Installation for the Los Angeles Basin Network^a

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COSTA MESA SEGMENT (Crosses the jurisdictions of Costa Mesa and Santa Ana)					
	Sandpoint Avenue	South Main Street and Hutton Center Drive	✓	✓	All signalized intersections
	Hutton Center Drive	Sandpoint Avenue and MacArthur Boulevard	✓	✓	All signalized intersections
DOWNTOWN LOS ANGELES SEGMENT (Crosses the jurisdiction of Los Angeles)					
12.4 miles	W. 1 st Street	S. Beaudry Avenue and N. Fremont Avenue		✓	Entire segment
	N. Fremont Street	W. 1 st Street and Diamond Street	✓		
	Diamond Street	N. Fremont Street and Figueroa Street	✓		
	S. Beaudry Avenue	W. Wilshire Boulevard and W. Temple Street	✓		
	W. Temple Street	S. Beaudry Avenue and N. Hill Street	✓		
	N. Grand Avenue	W. Temple Street and W. 1 st Street	✓		
	N. Hill Street	W. Temple Street and W. 6 th Street	✓		
	S. Hope Street	W. 1 st Street and W. General Thaddeus Kosciuszko Way	✓		
	W. 6 th Street	S. Figueroa Street and S. Flower Street	✓		
	S. Flower Street	W. 6 th Street and W. Wilshire Boulevard	✓		
	W. Wilshire Boulevard	S. Flower Street and S. Grand Avenue	✓		
	S. Grand Avenue	W. Wilshire Boulevard and W. 7 th Street	✓		
	W. 7 th Street	S. Grand Avenue and Figueroa Street	✓		
	Figueroa Street	W. 6 th Street and W. 12 th Street	✓		
	W. 12 th Street	Figueroa Street and S. Los Angeles Street	✓	✓	All signalized intersections
	S. Los Angeles Street	W. 12 th Street and E. Olympic Boulevard		✓	All signalized intersections
	W. 11 th Street	Figueroa Street and S. Los Angeles Street	✓		
W. 9 th Street	W. 11 th Street and S. Hill Street	✓			
TOTAL:	192.6 miles				
^a Segments correspond to those shown in Figure 4-3.					

Table 4-7. Los Angeles Basin Network Point of Presence (POP) Sites^a

<i>Location</i>	<i>POP Type^b</i>	<i>Generator Required?</i>
BURBANK (LEVEL 3 SEGMENT)		
S. Glenoaks Boulevard and W. Olive Avenue	II	Yes
GLENDALE (GLENDALE LOCAL SEGMENT)		
E. Broadway and N. Brand Boulevard	III	No
PASADENA (LEVEL 3 SEGMENT)		
E. Colorado Street and I-210	III	No
BEVERLY HILLS (LEVEL 3 SEGMENT)		
9744 Wilshire Boulevard	III	No
LOS ANGELES (LEVEL 3 SEGMENT)		
5055 Wilshire Boulevard	III	No
HUNTINGTON PARK (LAX/DOWNEY SEGMENT)		
Saturn Avenue and Santa Fe Avenue	III	No
EL SEGUNDO (EL SEGUNDO SEGMENT)		
N. Douglas Avenue and E. El Segundo Boulevard	III	No
DOWNEY (LONG BEACH/DOWNEY SEGMENT)		
Lakewood Boulevard and Union Pacific Railroad	II	Yes
LONG BEACH (LONG BEACH/DOWNEY SEGMENT)		
E. Carson Street and Palo Verde Avenue	II	Yes
BUENA PARK (CYPRESS/BURBANK SEGMENT)		
Knott Avenue and Artesia Boulevard	III	No
IRVINE (IRVINE SEGMENT)		
Armstrong Avenue and Alton Avenue	II	Yes
MacArthur Boulevard and Red Hill Boulevard	III	No
LOS ANGELES (DOWNTOWN LOS ANGELES SEGMENT)		
818 W. 7 th Street	III	No
624 S. Grand Avenue	III	No
530 W. 6 th Street	III	No
<p>a Locations correspond to those shown in Figure 3-2 and Figure 4-3.</p> <p>b Descriptions of Type II and Type III POPs are provided in section 3.1.4.3 (Points of Presence).</p>		

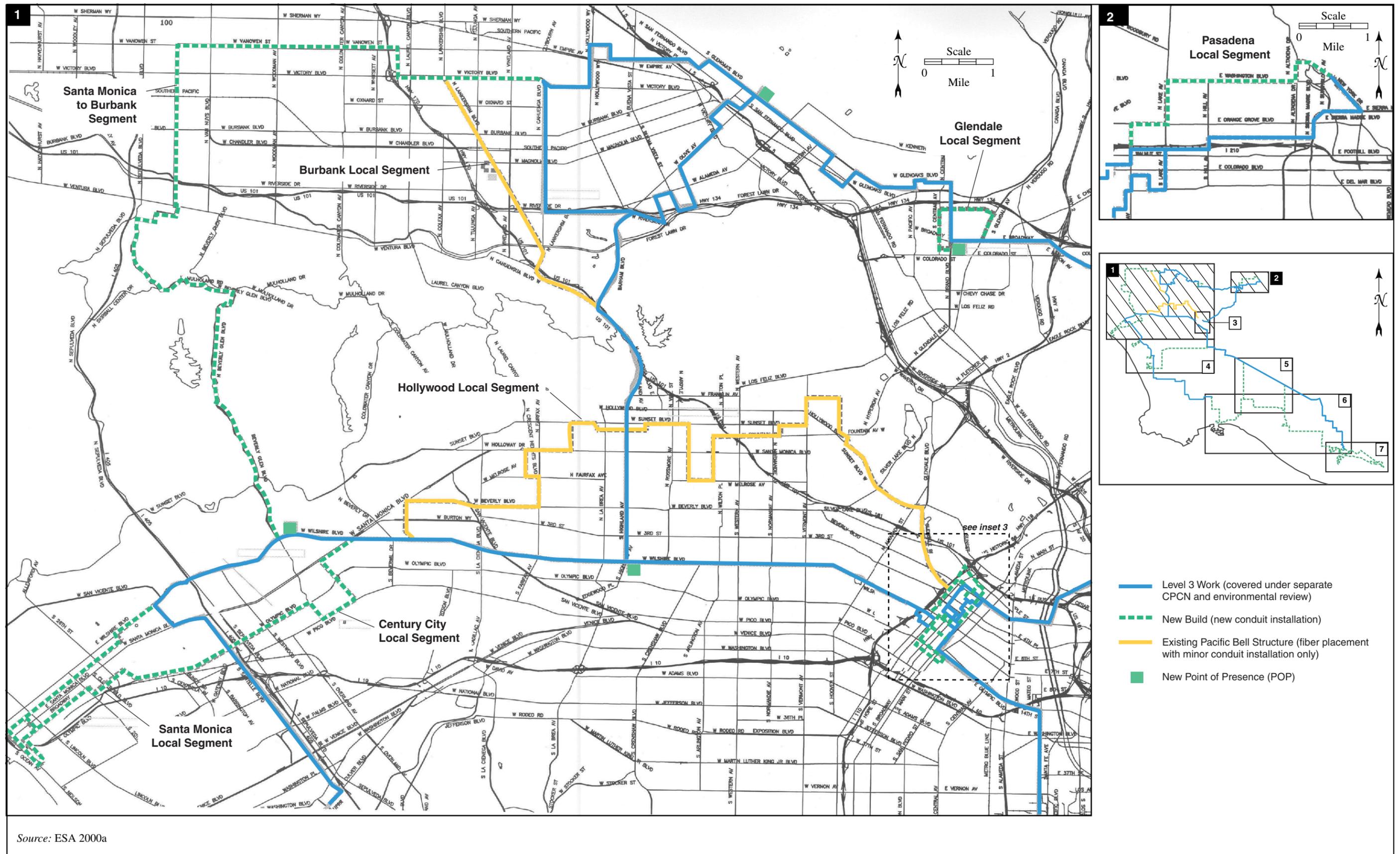
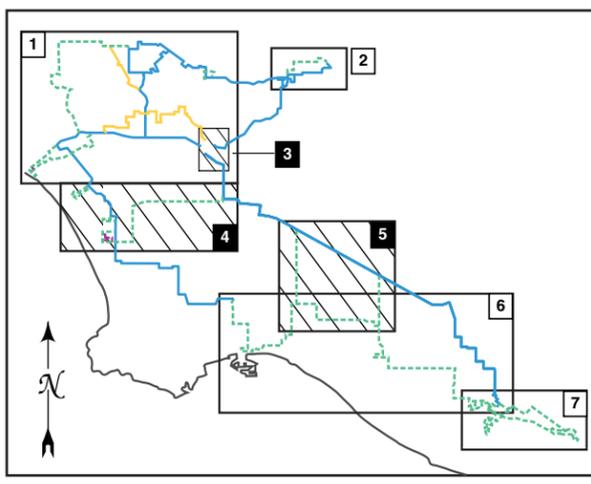
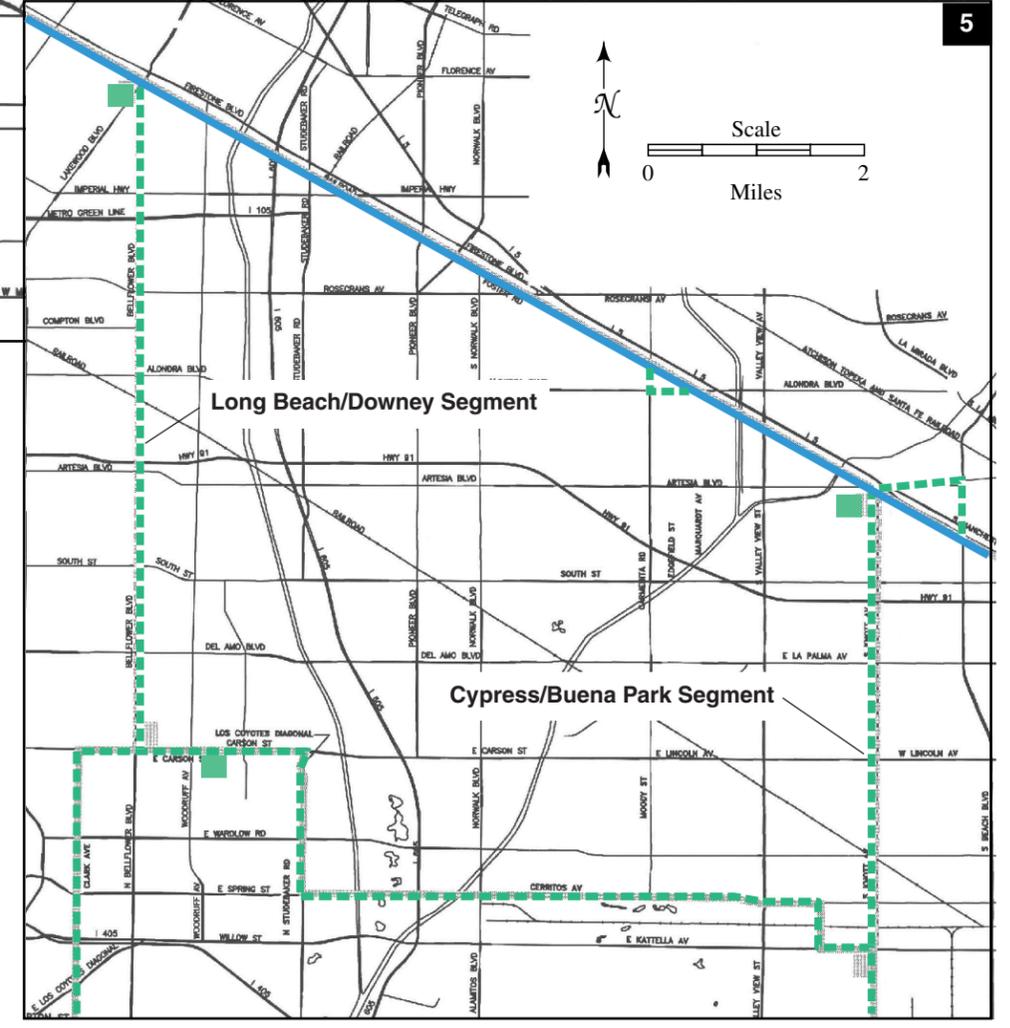
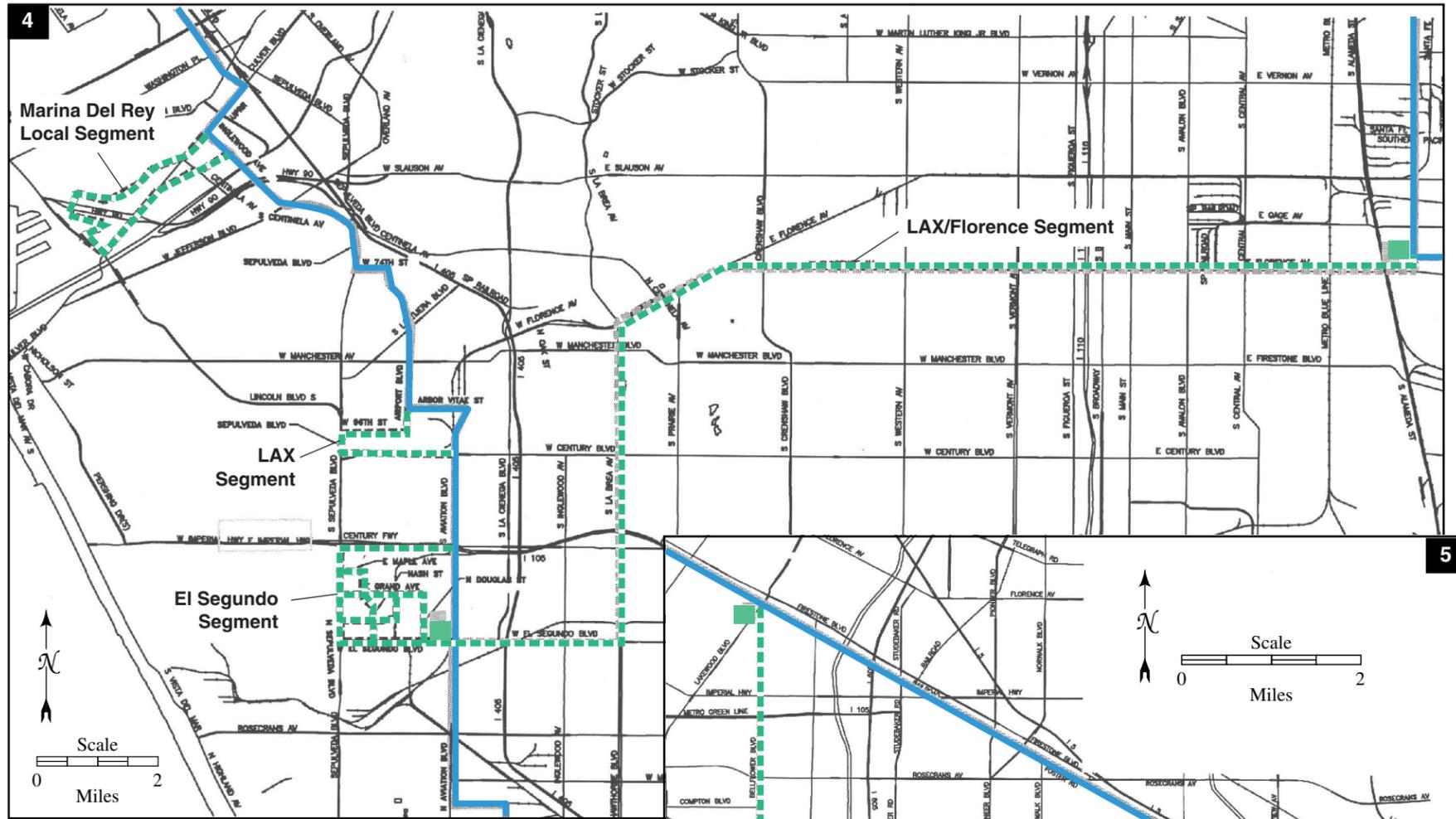
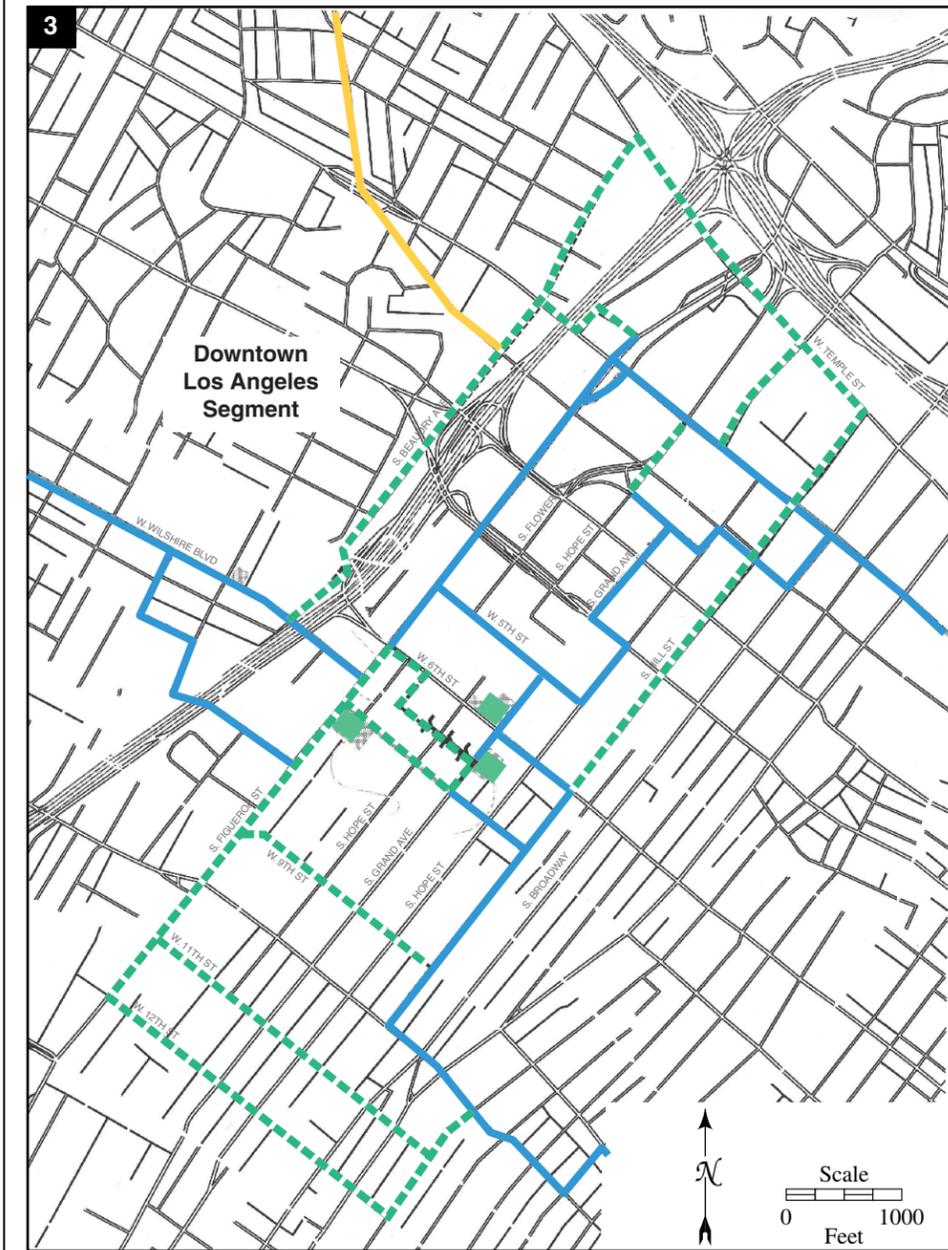


Figure 4-3a. Detail Map of the Los Angeles Basin Network New Builds



- Level 3 Work (covered under separate CPCN and environmental review)
- - - New Build (new conduit installation)
- Existing Pacific Bell Structure (fiber placement with minor conduit installation only)
- New Point of Presence (POP)

Source: ESA 2000a

Figure 4-3b. Detail Map of the Los Angeles Basin Network New Builds

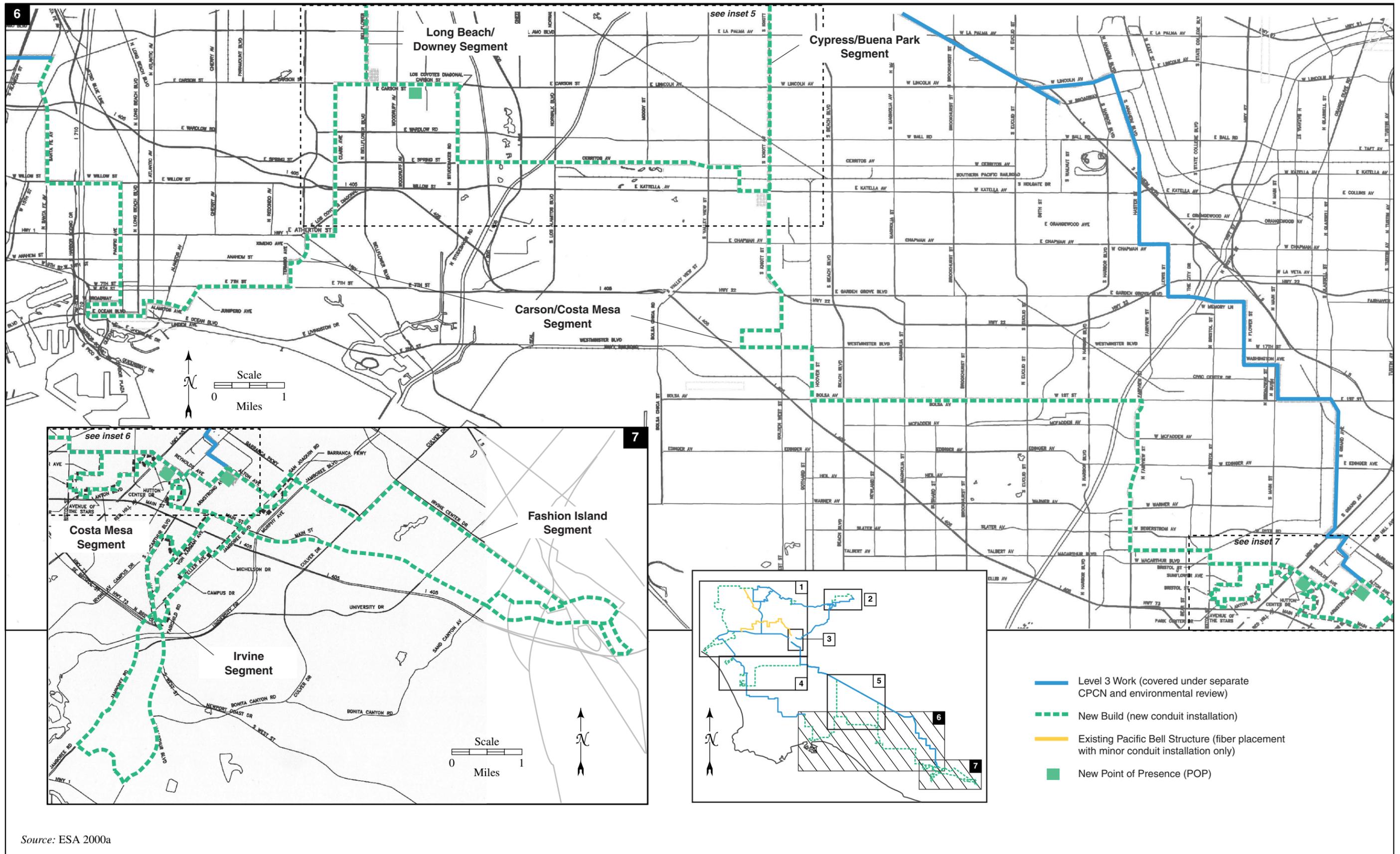


Figure 4-3c. Detail Map of the Los Angeles Basin Network New Builds