

Appendix IS-4

Zanja Madre Memorandum

May 24, 2018

Stephanie Eyestone-Jones
Eyestone Environmental
2121 Rosecrans Avenue, Suite 3355
El Segundo, California 90245

Subject: Archaeological Resources Recommendations for the 713 East 5th Street Project, Los Angeles, California

Dear Ms. Eyestone-Jones:

This letter provides a summary of archaeological resources management recommendations for the 713 East 5th Street Project (Project), located at 713–717½ E. 5th Street, mid-block on the north side of 5th Street in Los Angeles, California (Attachment A: Figure 1). The City of Los Angeles is the lead agency responsible for compliance with the California Environmental Quality Act (CEQA). The Project includes 51 residential units, which would consist of 50 Restricted Affordable Efficiency Dwelling units and one manager’s unit, residential supporting service uses, and one surface parking space. The proposed uses would be located within an eight-story building compromised of 33,007 square feet. The project falls on public land survey system (PLSS) area Township 1 South, Range 13 West, within an unsectioned portion of the *Los Angeles*, CA 7.5-minute USGS Quadrangle (Attachment A: Figure 2).

REVIEW OF ARCHAEOLOGICAL INFORMATION

A South Central Coastal Information Center (SCCIC) records search was performed by Dudek at the SCCIC on July 26, 2017 for a nearby project site. This previous search encompassed an area extending 1,000-feet beyond the present project site, and has been summarized here as including the proposed development site and a surrounding 1,000-foot buffer to simplify description. In fact, this search also extended a full 1,640 feet to the southeast. SCCIC records indicate that a total of 27 previously recorded cultural resources fall within 1,000 feet, none of which are within the project site. Of these, 25 are historic-era buildings or structures with construction dates falling most commonly between the years 1900-1940. Two historic-era sites or features (P-19-002610 and P-19-004460), are located within a 1,000 feet of the project site. These sites include remnants of a cobblestone paved road dating to before 1907 (P-19-002610) and a series of refuse scatters recovered from a city block with temporally diagnostic material dating from the mid to late nineteenth century through 1923 (P-19-000460). None of these will be impacted by the proposed project.

Review of technical reports for the broader Downtown area suggests that one additional unconfirmed historical archaeological resource may also be present in the vicinity. A series of maps prepared by Cogstone Environmental (Gust 2017; derived from Gumprecht 2001) for the Downtown Los Angeles area depicts an unconfirmed section of a historical-era water conveyance system running in a southerly route approximately 0.05 miles (264 feet) east of the project site (see LA-13239 report maps provided in Attachment B). The water conveyance system consisted of interconnected ditches known as “zanjas” and was established in 1781 at the same time that El Pueblo de la Reyna de Los Angeles (The Pueblo de Los Angeles) was founded. The first segment of the system was known as the Zanja Madre, and ran from a point on the Los Angeles River north of the city, south near present-day Main Street terminating near the Plaza, present-day Union Station (Gumprecht 2001: 58). Though researchers and the public often use the term *Zanja Madre* to refer to the larger water conveyance network, it more accurately describes just that initial component established during the Spanish Period. The segments that were added on later were numbered and grouped based on what part of the city they reached and where on the river they drew water. The size of Los Angeles did not necessitate an expansive system for the first half of the nineteenth century, and in 1849, there were only three additional segments. As the city rapidly grew, water became a growing concern, particularly because much of the land was agricultural land and irrigation was crucial to farmers success. As a result, several new zanja segments were constructed post-1855 (Gumprecht 2001 58-61).

By the late nineteenth century there was a total of 19 zanja segments, most of which had been lined with concrete or cement piping, which was more efficient and safer than the open ditches (Gumprecht 2001: 72, 88). The only zanja that was lined with brick was the Zanja Madre (Hall 1888: 544-546). The Zanja system largely faded into disuse by the early twentieth century as the system began to face increased criticism for its inefficiency and imprecision (Gumprecht 2001: 89).

The accuracy of the Cogstone Environmental study maps appear limited by the age and generalized nature of the records describing the routes of the water conveyance features, the absence of physical evidence confirming a specific route of Zanja Madre in the vicinity of the project site, and the degree of urbanization that has occurred in the past 100 years. Results of the SCCIC records search indicated that 19 previous cultural resource studies have been conducted within 0.5-mile of the project site between 1992 and 2016. None of these have resulted in the recordation of any section of the Zanja Madre within this search area. Based on review of archaeological records completed for other projects in the surrounding region, the nearest confirmed segment of the Zanja system appears to be a segment reported 1.3-mile to the northeast on E. Temple Street, between Alameda Street and N. Garey Street (Attachment C; Humphries and Ehringer 2008).

Dudek consulted historic aerials, accessed through UC Santa Barbara’s Map and Imagery Laboratory, Sanborn Maps, accessed through the Los Angeles Public Library, and Historic maps accessed through the Los Angeles Public Library, the Huntington Map Library, and the David Rumsey Map Collection, to understand the development of the project site. Three historic maps showing the City of Los Angeles in 1884, 1887, and 1921 were available (Baist 1921; Easton 1887, and Stevenson 1884). Sanborn maps were available for the years 1894, 1906, 1950, and 1955 (Sanborn Map Company 1894, 1906, 1950, and 1955).

Finally, historic aerials were available from 1928 to present (Aerial Map Industries 1981; Fairchild Aerial Surveys 1928, 1947, and 1956; Google Earth 1994 and 2017; Teledyne Geotronics 1971). All figures consulted are available in Attachment A: Figures 3 through 16.

The 1884 map, prepared by a United States Surveyor shows that at this time the project site had not yet been subdivided and was located near the border of land owned by J.W. Wolfskill and F.W. Shepard. An offshoot of the Zanja Madre is shown going through the center of Wolfskill's property to the east of the project site. This offshoot was called Zanja No. 3 (referred herein as such). The 1887 map, depicting the proposed sewers of Los Angeles, shows the project site within a still un-subdivided area between Alameda Street and San Pedro Street. This map fails to indicate Zanja No. 3, though it does show two zanja segments, both labeled Zanja No. 2 to the east and west of the project site. It is possible that the redundant naming is a result of a mistake on the part Eaton. Judging by sources consulted the eastern Zanja No. 2 shown on Eaton's map corresponds to the reported route of this segment (Gumprecht 2001: 72). The western Zanja No. 2 shown on Eaton's map appears to correspond more closely with Zanja No.4, and was likely mislabeled on this map. Zanja No. 3 should be located between these two zanjas, and its absence is also likely a mistake on part of Eaton.

The earliest Sanborn Map covering the project site and vicinity shows that development at this time consisted only of a few small domestic residences in the general area. The actual project site was undeveloped at this time. Zanja No. 3 is depicted running from the corner of 5th Street and Gladys Avenue to the corner of 4th Street and Ruth Avenue (later changed to Stanford Avenue), generally east of the project site. The Zanja segment then continues to run north towards 3rd Street and south towards 6th Street. The Zanja segment is not shown crossing any part of the project site on this map. The Zanja Madre is not mapped on the 1906 map, or any other later maps showing the project area. However, these maps do show a steady increase in development within the project site and vicinity, which transitioned from primarily single family homes in the early twentieth century to a dense mixture of single family and multi-family residences with interspersed commercial development by the mid twentieth century.

Historic aerials consulted dating from 1928 onwards indicate that from the mid twentieth century until present day the project site itself did not undergo extensive changes. Based on review of building permits and parcel data the extant building within the project site was built in 1924 and underwent extensive alterations between that point and 1960. After 1960, it appears to have only undergone superficial alterations and improvements. The building was initially a hotel and is currently being used as an apartment complex. In 1947 the parcels surrounding the project site were entirely developed. The center of the block was devoted mainly to residential development, while the northern and southern edges were occupied by commercial development. The most extensive changes to the block where the project site is located occurred between 1952 and 1964, when the residential development in the center of the block was demolished and replaced with several rectangular commercial structures and parking lots. The next major change to the occurred between 1972 and 1980 when the building directly west of the project site was demolished and replaced with the extant commercial structure. After this point there were few extensive changes to the block.

The block to the east of the project site, where the Zanja No. 3 was mapped, was developed mainly for commercial use. The Sanborn from 1955, which corresponds to the historic aerials from that time period, indicate that there was a large meat market and a fish market along the eastern boundary of this block and some residences along the western boundary. Between 1971 and 1981, historic aerials indicate that the meat market was demolished and replaced with parking lot. Today the center of that block is still undeveloped and the remaining development consists of commercial development within the southern half of the block and at the northern tip. There is no evidence of Zanja No. 3 running through this block on any of the historic aerials consulted.

Dudek also reviewed information detailing the original Zanja Madre network and subsequently constructed segments, including William Hall's 1888 study of irrigation in Southern California (Hall 1888), and Blake Gumprecht's work on the History of the Los Angeles River (Gumprecht 2001). Through this review, it has been determined that Zanja No 3 ran from the end of the Zanja Madre, at 1st Street, to the City boundary, at that point just north of Jefferson Boulevard. Between 1st Street and 7th Street, where it would have passed near the project site, this feature is described as being an open ditch (Gumprecht 2001: 77; Hall 1888: 543-551). No documentation indicates that this ditch was enclosed with pipe and, as is consistent with many of the zanjias within the city, it was likely abandoned in the late nineteenth or early twentieth century then destroyed by subsequent development (Gumprecht 2001: 88-89). Zanja No. 3, which ran through a block that was heavily developed by the early twentieth century, was likely one of the first to be abandoned. Additionally, the fact that in 1888 it remained unlined with brick or pipe suggests that this ditch was never lined. Based on this information, it is highly unlikely that any physical remnants of Zanja No. 3 would continue to exist today.

MANAGEMENT RECOMENDATIONS

The proposed project does not include underground parking or basement levels and therefore the depth of excavation outside of previously undisturbed soils will be limited; however, there is always a possibility that subsurface archeological artifacts, deposits or features that that were not identified during past construction adjacent to or within the project site could be encountered. As noted above, an offshoot of the Zanja Madre has been mapped as running directly east of the project site, however, further research has shown that this branch was likely never lined and was abandoned in the 1890s or 1900s. Based on reviewed information, the proposed project will have no impact to this or other archaeological resources. As such, no resource-specific mitigation would be appropriate.

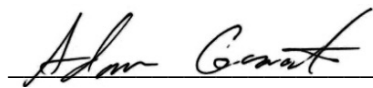
Segments of the Zanja Madre that are encountered today consist of relatively large brick and/or concrete pipe or curved features that are readily identifiable when encountered in subsurface contexts (see Attachment 3 for examples). In the event any archaeological material or features are unexpectedly encountered during construction, work in the area would cease and all construction personnel would be required to comply with the regulatory standards set forth in Section 21083.2 of the PRC and Section 15064.5(c) of the CEQA Guidelines. As compliance with the regulatory standards in Section 21083.2 and Section 15064.5(c) would ensure the appropriate treatment of any potential unique archaeological

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resources unexpectedly encountered during grading and excavation activities, the Project's impact on archaeological resources would be less than significant, and no mitigation measures are required.

Should you have any questions relating to this report and its findings please do not hesitate to contact me directly.

Respectfully Submitted,



Adam Giacinto, M.A., RPA
Archaeologist

DUDEK

Office: 530.863.4653

Email: agiacinto@dudek.com

Cc: Erica Nicolay, Elizabeth Dennison, Micah Hale, Dudek

Att: A: Maps and Figures

B: Report LA-13239

C: Site Record CA-LAN-4113/P-19-004113

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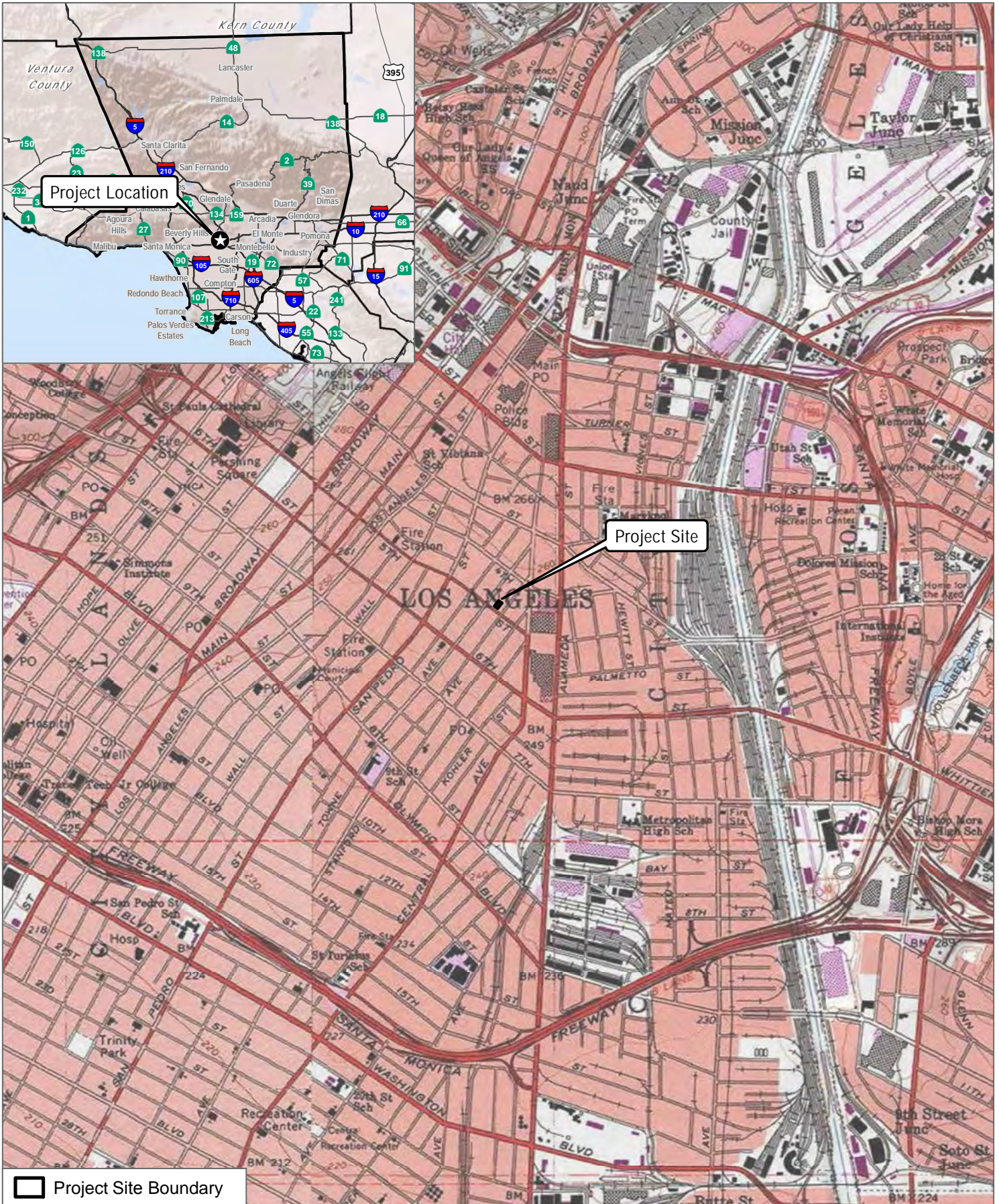
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ATTACHMENT A

Maps and Figures



SOURCE: USGS 7.5-Minute Series Los Angeles Quadrangle
 Township 1S / Range 13W / Sections 27, 28, 33, 34



DUDEK

FIGURE 1
Project Location
 Cultural Resources Report



SOURCE: NAIP Imagery 2016



FIGURE 2
Project Area
Cultural Resources Report

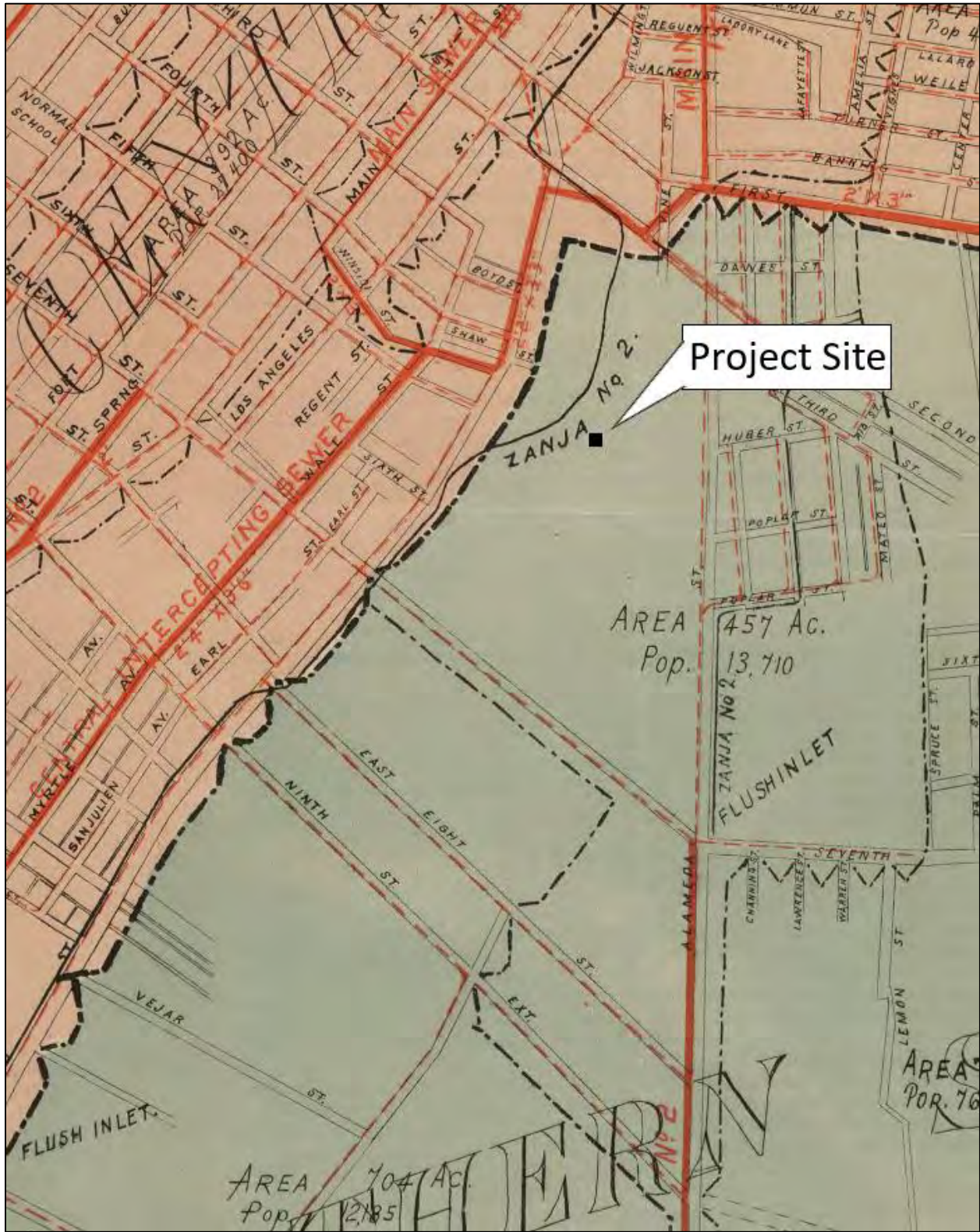


Figure 4. Project Site (approximate location) shown on Eaton's 1887 map of the proposed sewer system in Los Angeles (Eaton 1887).

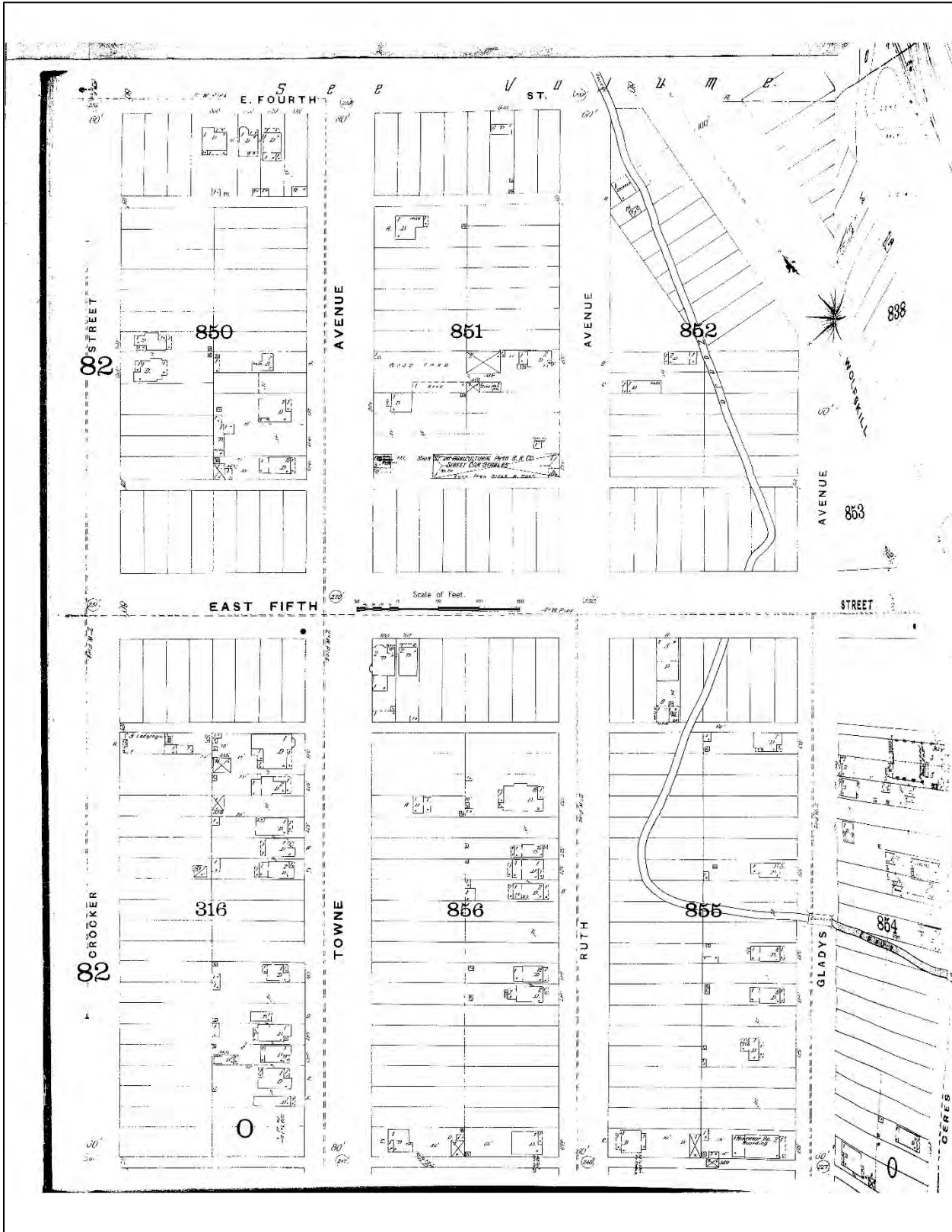


Figure 5. 1894 Sanborn Map showing roject Site and vicinity (Sanborn Map Company 1894)

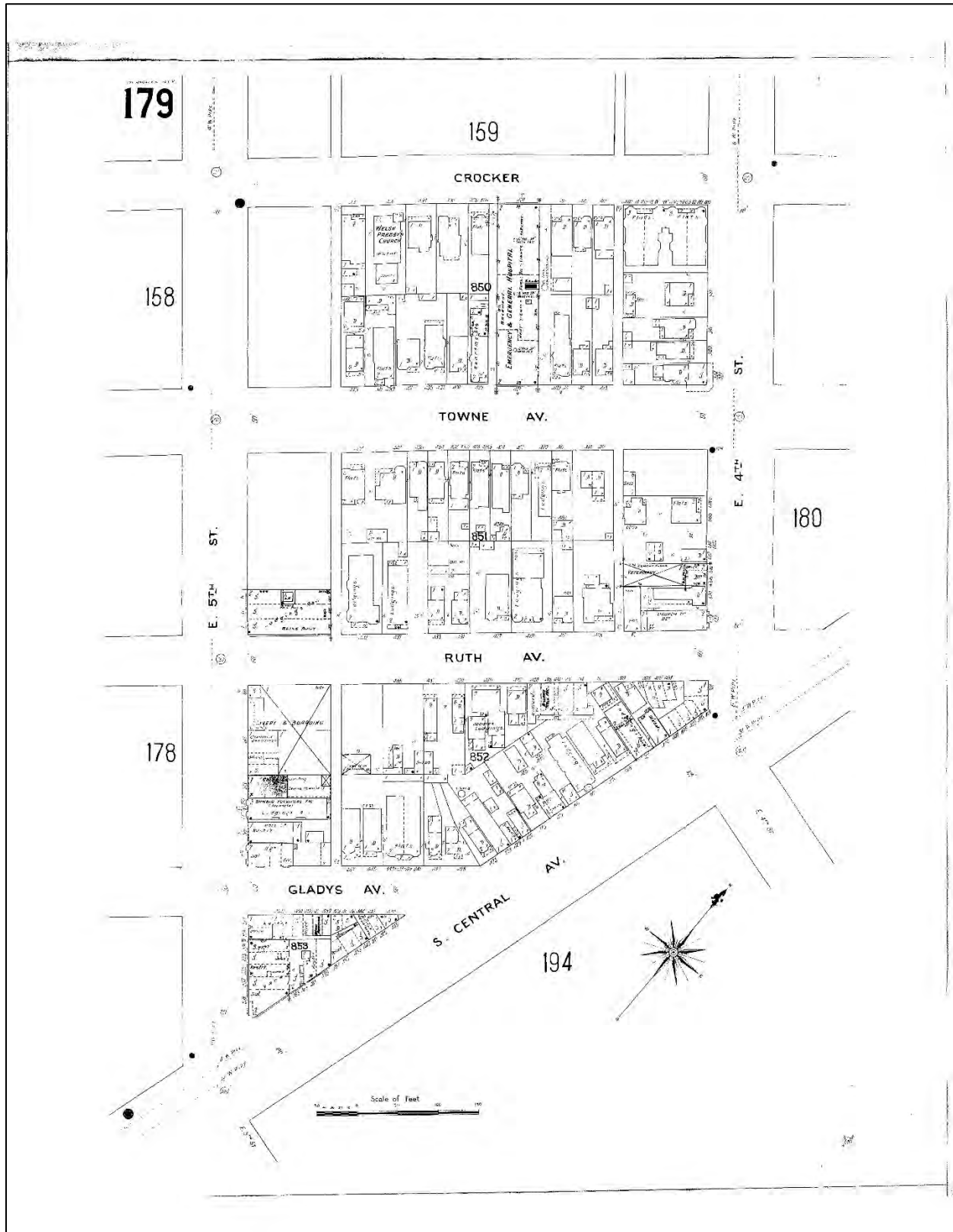


Figure 6. 1906 Sanborn Map showing Project Site and vicinity (Sanborn Map Company 1906)

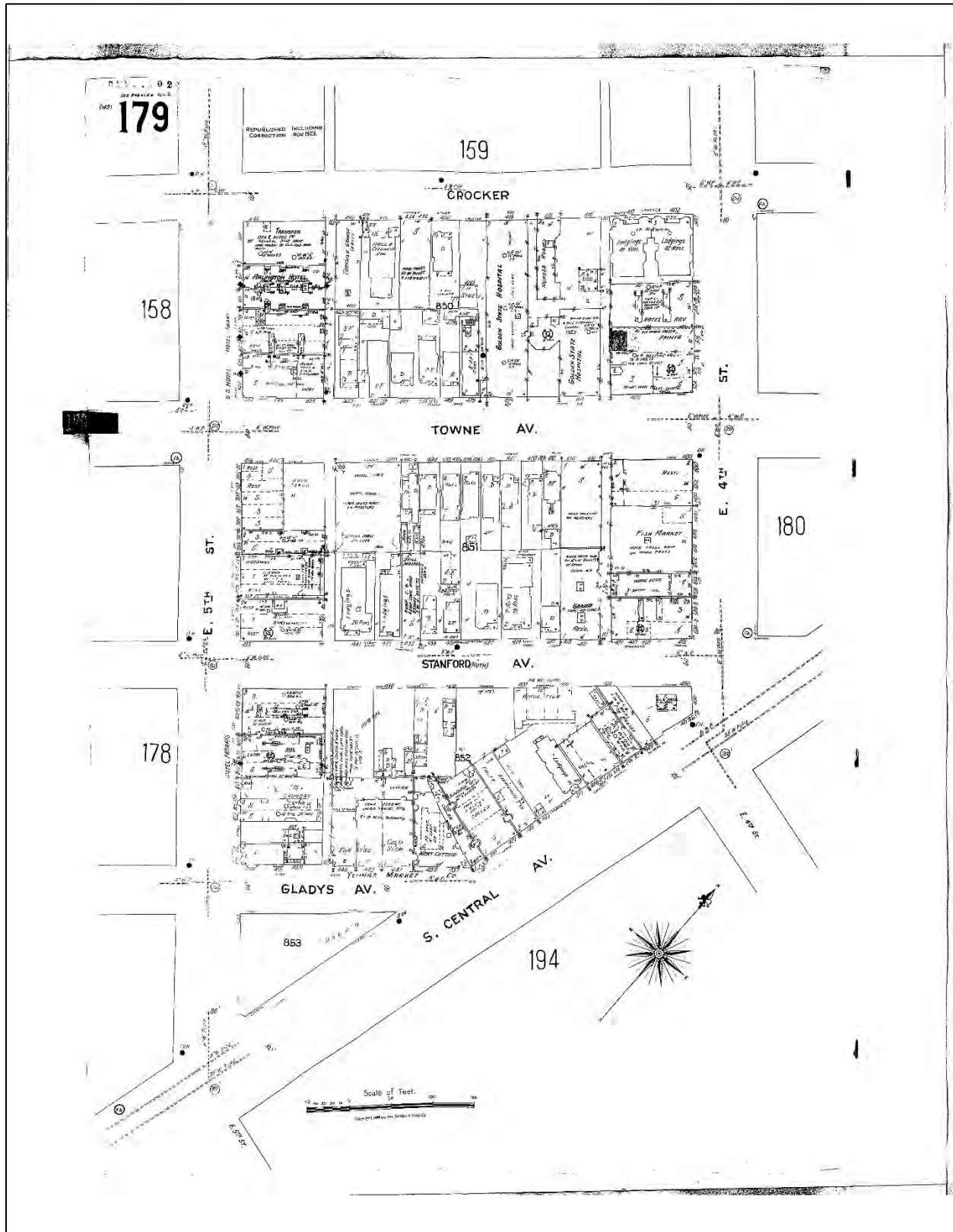


Figure 7. 1950 Sanborn Map showing Project Site and vicinity (Sanborn Map Company 1950)

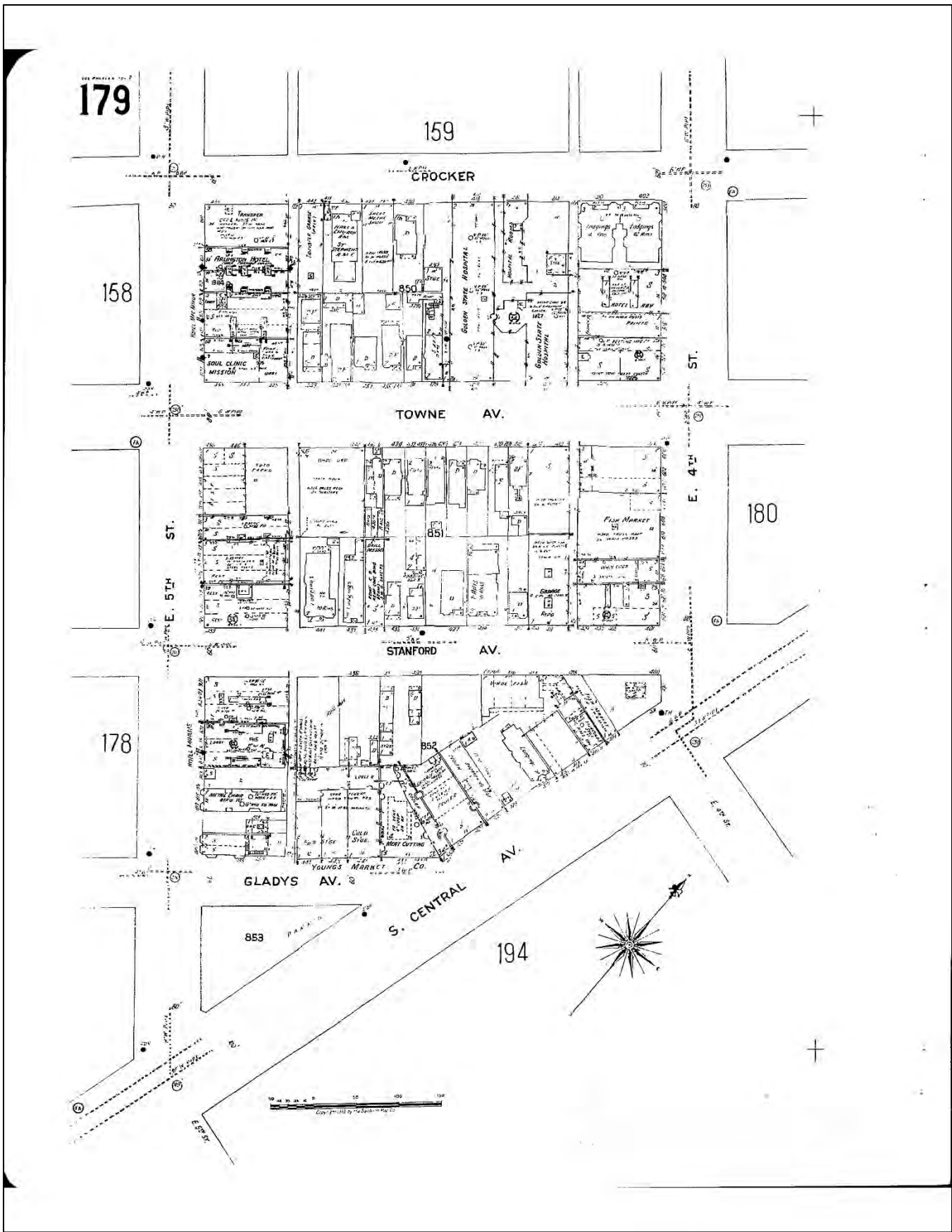


Figure 8. 1955 Sanborn Map showing Project Site and vicinity (Sanborn Map Company 1955)

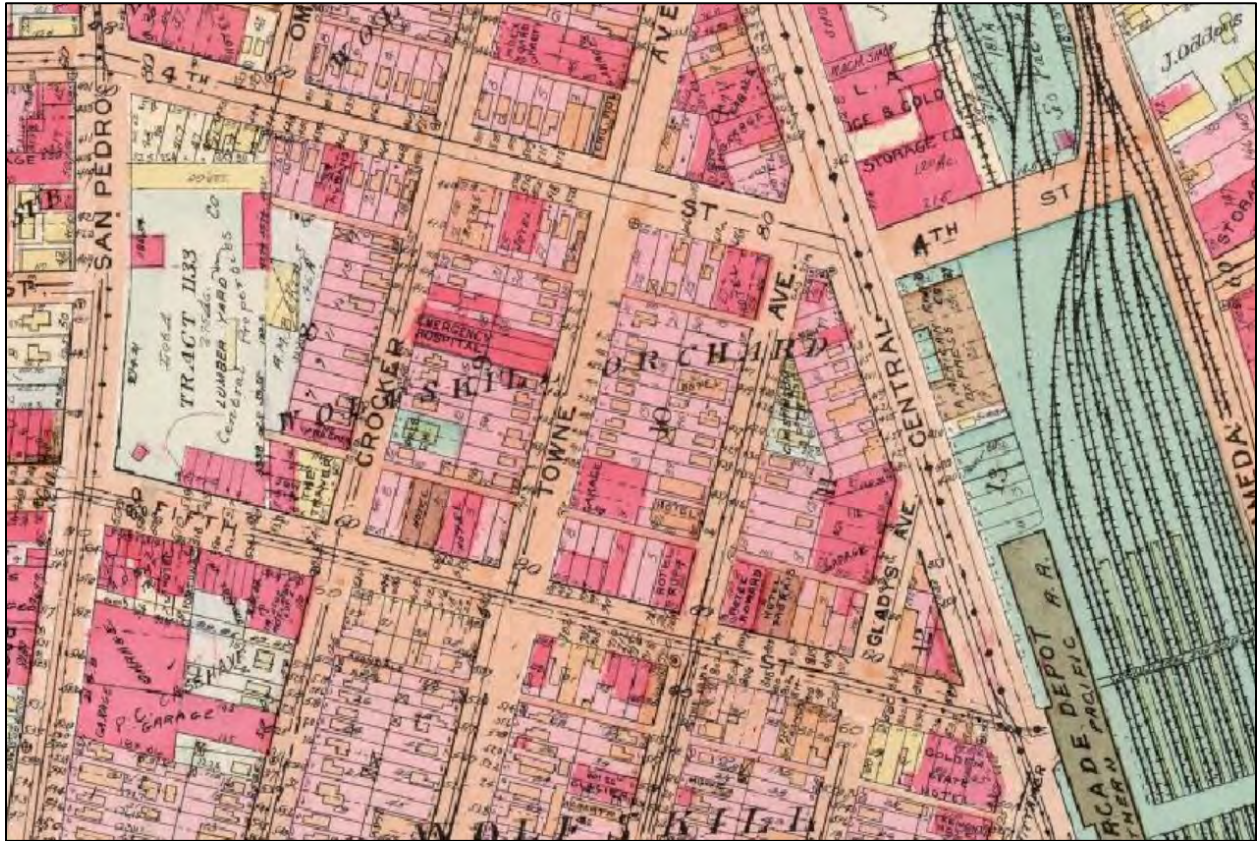


Figure 9. 1921 Baist map showing Project Site and vicinity (Baist 1921)



Figure 10. 1928 aerial depicting the block where Project Site is located, which is outlined in red. (Fairchild Aerial Surveys 1928)



Figure 11. 1947 aerial depicting the block where Project Site is located, which is outlined in red. (Fairchile Aerial Surveys 1947)



Figure 12. 1956 aerial depicting the block where Project Site is located, which is outlined in red. (Fairchild Aerial Surveys 1956)



Figure 13. 1971 aerial depicting the block where Project Site is located, which is outlined in red. (Teledyne Geotronics 1971)



Figure 14. 1981 aerial depicting the block where Project Site is located, which is outlined in red. (Aerial Map Industries 1981)



Figure 15. 1994 aerial depicting the block where Project Site is located, which is outlined in red. Courtesy of Google Earth.

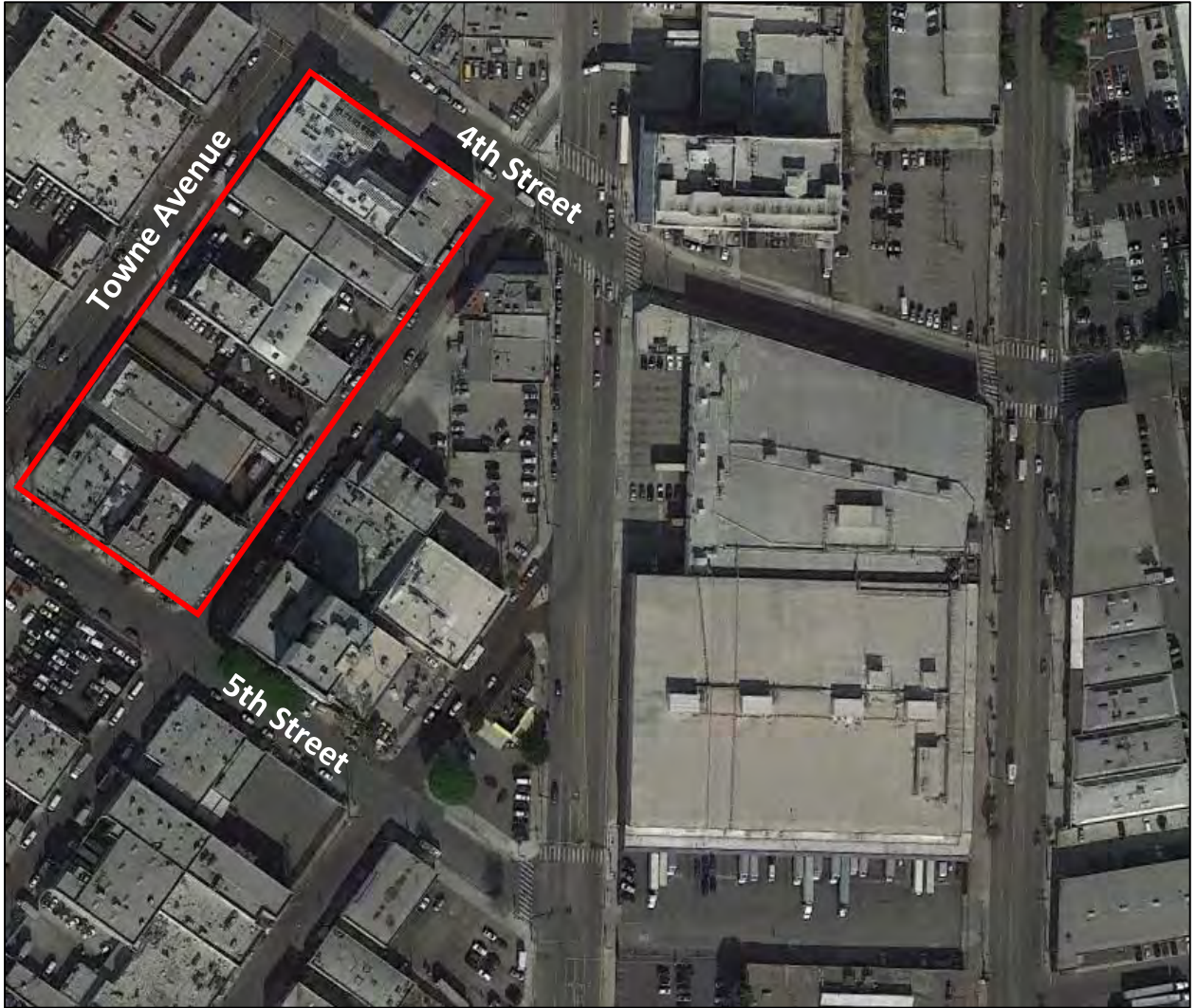


Figure 16. 2017 aerial depicting the block where Project Site is located, which is outlined in red. Courtesy of Google Earth.

ATTACHMENT B

Report LA-13239

Extent of Zanja Madre

By: Cogstone

2017

This report number corresponds to the shapefile supplied by Sherri Gust of Cogstone. It represents their research into the entire linear boundary of the Zanja Madre. So far, only portions of the Zanja have been physically surveyed, excavated, and recorded. These are cross referenced with this file.

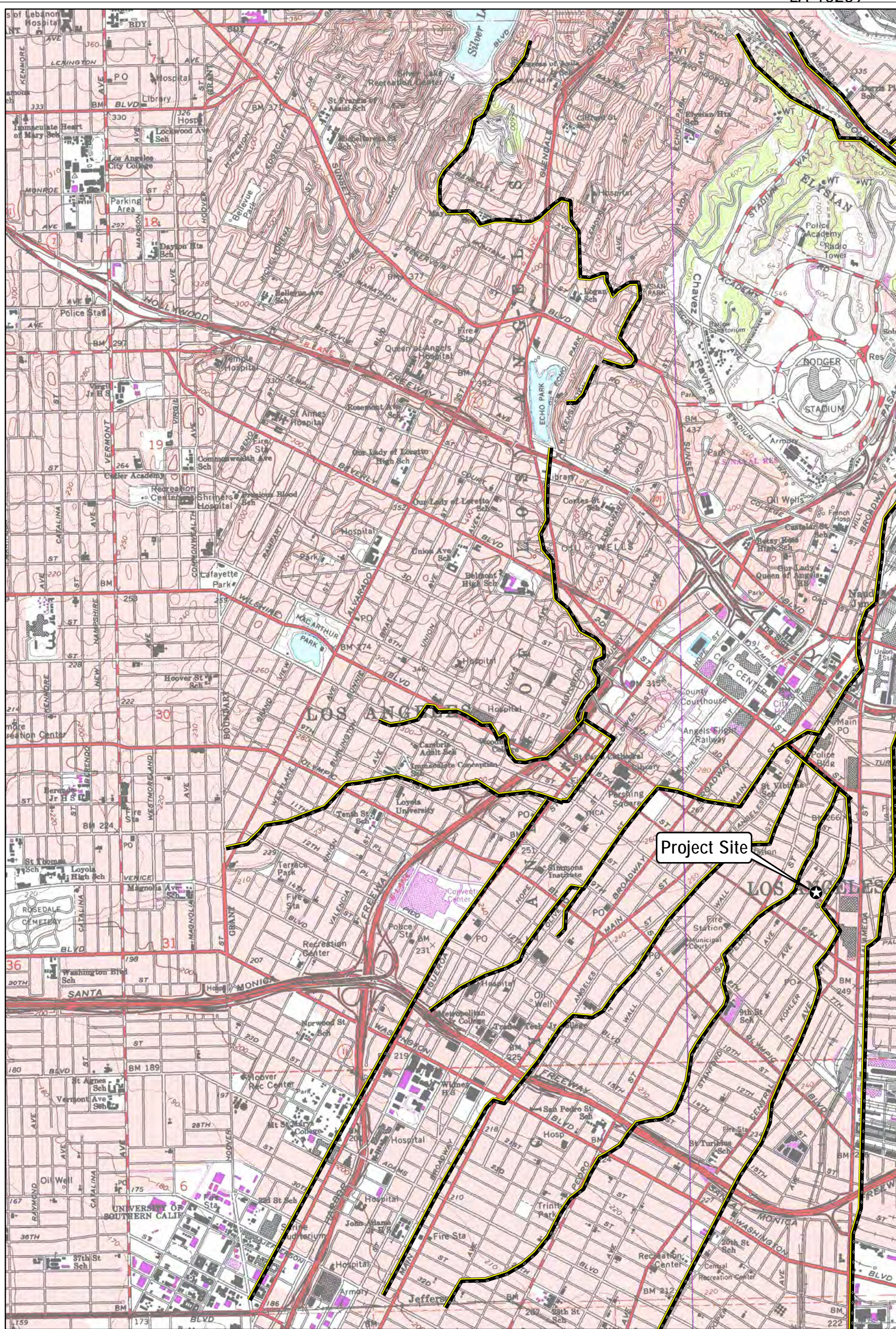
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19-003103

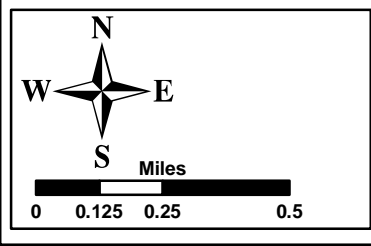
19-004113

19-190309

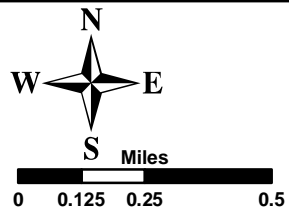
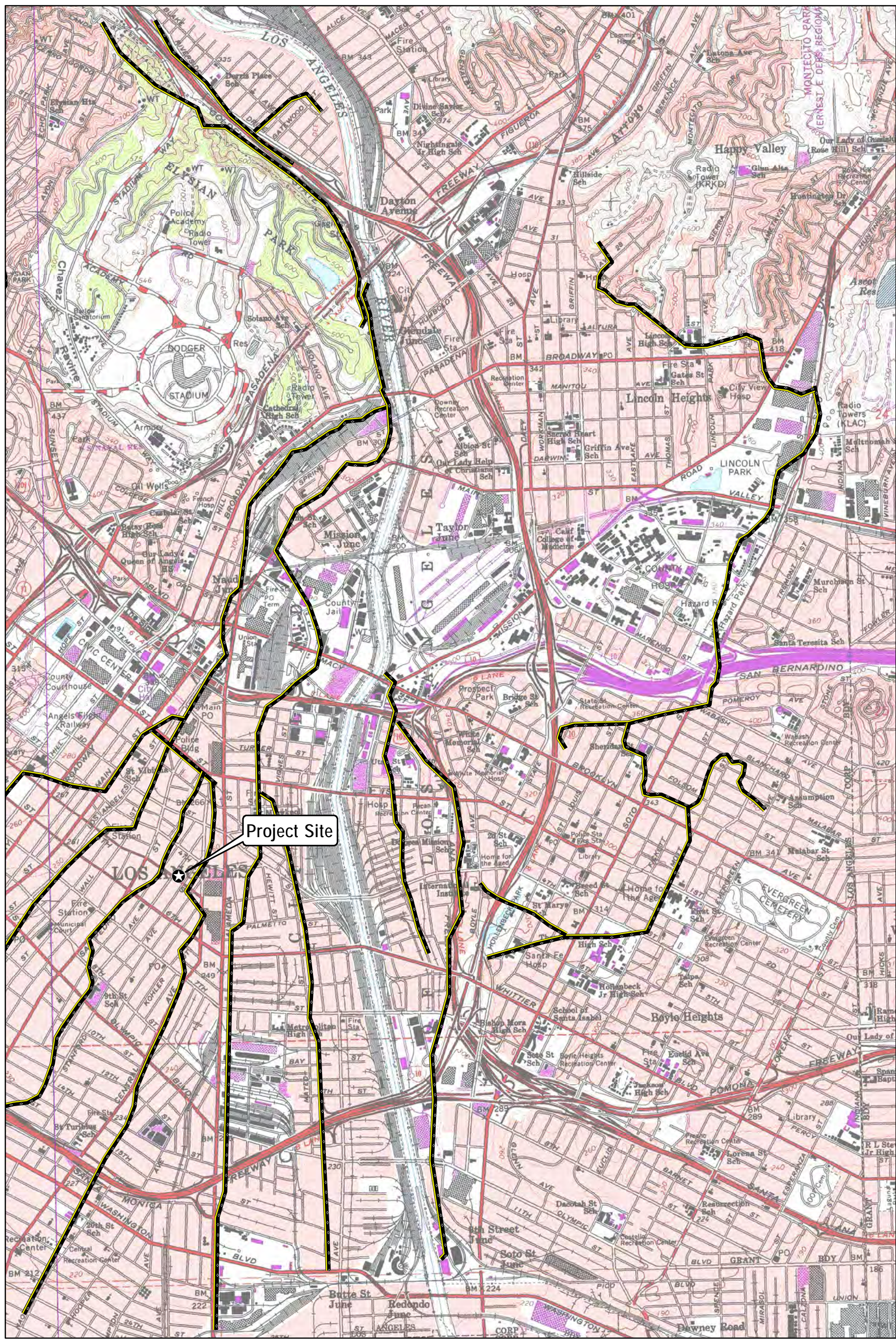
OFFICE OF HISTORIC PRESERVATION * * * Directory of Properties in the Historic Property Data File for LOS ANGELES County.			Page 247	04-05-12							
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172542			ZANJA MADRE	LOS ANGELES	C	1781	NAT.REG.	19-0531	08/04/08	7W	
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097885	19-175327	3612 11TH AVE	ANIMAL SHELTER	LOS ANGELES	M		HIST.RES.	DOE-19-94-0218-0000	08/08/94	6Y	
							PROJ.REVW.	HRG940202Z	08/08/94	6Y	
116292		4721 11TH AVE		LOS ANGELES	P	1923	HIST.RES.	DOE-19-96-0206-0000	02/11/96	6U	
							PROJ.REVW.	HUD960801E	02/11/96	6U	
126008		5315 11TH AVE		LOS ANGELES	Y	1921	HIST.RES.	DOE-19-00-0211-0000	05/15/00	6U	



Project Site



Hollywood, CA
 USGS 7.5'
 PR: 1981 1:24,000



Los Angeles, CA
 USGS 7.5'
 PR: 1981 1:24,000

ATTACHMENT C

Site Record CA-LAN-4113/P-19-004113

Other Listings
Review Code

Reviewer

Date

Page 1 of 6

*Resource Name or #: Segment of Zanja No. 6-1

P1. Other Identifier:

***P2. Location:** Not for Publication Unrestricted

*a. County: Los Angeles

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad: Los Angeles Date: 1966. Photo revised 1981; minor revisions 1994

Unsectioned of Sec; S.B.B.M.

c. Address: Across the 500 block of E. Temple Street between N. Alameda Street and the N. Garey Street

City: Los Angeles

Zip: 90012

d. UTM: NAD83; Zone: 11; 385955.602mE/ 3768437.235mN (G.P.S.)

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate)

Across the 500 block of E. Temple Street between N. Alameda Street and the N. Garey Street; there is a plaque dedicated to and marking the presence of the *zanja* segment that is located directly in front of the fire station building at 425 E. Temple Street.

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Elevation: Approximately 2' below ground surface

An extension of the *Zanja* 6-1, was exposed on January 30th, 2008. This division broke from the main ditch, the *Zanja Madre*, north of Los Angeles Street and flowed south between Alameda Street in the west and the Los Angeles River in the east. The No.1 split was constructed in 1857 and by 1888 the greater part of the conduits had been converted to cement pipe (See P5a image).

The portion of *Zanja* No.6-1 was uncovered on the southern side of E. Temple Street and measured just over 5 1/2 feet long and 2 feet wide. A drainage box, located to the east, appeared connected to the conduit. The box was roughly 26-35 inches long, 18 inches wide, and 37 inches in depth.

***P3b. Resource Attributes:** (List attributes and codes) AH4 – Privies/dumps/trash scatters, AH6 – Water conveyance system

***P4. Resources Present:** Building Structure Object Site District Element of District Other (Isolates, etc.):

Whiteware ceramic fragments

P5a. See continuation sheet

P5b. Description of Photo: (View, date, accession #)

See continuation sheet

***P6. Date Constructed/Age and Sources:** Historic

Prehistoric Both

***P7. Owner and Address:**

City of Los Angeles, Public Works-Engineering

***P8. Recorded by:** (Name, affiliation, and address)

Candace Ehringer & Frank Humphries

Aecom

515 S. Flower Street

9th Floor

Los Angeles, Ca 90071

***P9. Date Recorded:**

January 30, 2008

***P10. Survey Type:** (Describe)

Archaeological Monitoring

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")

Dietler, Sara et. al.

2010 *Archaeological Assessment For The Temple Street Widening Project City Of Los Angeles, California.* AECOM. Submitted to the City of Los Angeles, Bureau of Engineering.

Strauss, M.

2004 *Archaeological Resources Assesment for the Proposed Public Safety Facilities Master Plan Project, City of Los Angeles, California.* EDAAW. Submitted to the City of Los Angeles, Bureau of Engineering.

***Attachments:** NONE Location Map Sketch Map Continuation Sheet Building, Structure, and Object Record
 Archaeological Record District Record Linear Feature Record Milling Station Record Rock Art Record
 Artifact Record Photograph Record Other (List):

***A1. Dimensions:** a. Length: 5 ½ feet (N/S) × b. Width: 2 feet in diameter (E/W)

Method of Measurement: Paced Taped Visual estimate Other:

Method of Determination (Check any that apply.): Artifacts Features Soil Vegetation Topography
 Cut bank Animal burrow Excavation Property boundary Other (Explain):

Reliability of Determination: High Medium Low Explain:

Limitations (Check any that apply): Restricted access Paved/built over Site limits incompletely defined
 Disturbances Vegetation Other (Explain):

A2. Depth: Approximately 2 feet below surface level None Unknown Method of Determination: Excavation

***A3. Human Remains:** Present Absent Possible Unknown (Explain):

***A4. Features** (Number, briefly describe, indicate size, list associated cultural constituents, and show location of each feature on sketch map.):
See continuation sheet.

***A5. Cultural Constituents** (Describe and quantify artifacts, ecofacts, cultural residues, etc., not associated with features.):
See continuation sheet.

***A6. Were Specimens Collected?** No Yes (See technical report for artifact catalog. Artifacts will be curated at the San Diego Archaeological Center)

***A7. Site Condition:** Good Fair Poor (Describe disturbances.): Feature is located beneath street surfaces and buildings; portions of the feature appear to have been affected by previous construction activities.

***A8. Nearest Water** (Type, distance, and direction.): Los Angeles River less than 2 miles to the east

***A9. Elevation:**

A10. Environmental Setting (Describe culturally relevant variables such as vegetation, fauna, soils, geology, landform, slope, aspect, exposure, etc.): Area is entirely developed.

A11. Historical Information:

During the early American period, the irrigation conduit was developed into a system and the first extension from the mother ditch was constructed in 1857. This extension, *Zanja* No.6-1, broke from the *Zanja Madre* north of Los Angeles Street and flowed south between Alameda Street in the west and the Los Angeles River in the east (Gumprecht 1999; Strauss 2004). Historic documents illustrate that *Zanja* No. 6-1 passed through the central portion of the Project area.

***A12. Age:** Prehistoric Protohistoric 1542-1769 1769-1848 1848-1880 1880-1914 1914-1945
 Post 1945 Undetermined Describe position in regional prehistoric chronology or factual historic dates if known:

A13. Interpretations (Discuss data potential, function[s], ethnic affiliation, and other interpretations):

It is unclear when *Zanja* No. 6-1 was discontinued, but by 1902, the city of Los Angeles had replaced the *zanja* system. This segment was likely converted for use as a storm drain.

A14. Remarks:

A15. References (Documents, informants, maps, and other references):

Strauss, M.

2004 Archaeological Resources Assessment for the Proposed Public Safety Facilities Master Plan Project, City of Los Angeles, California. EDAW. Submitted to the City of Los Angeles, Bureau of Engineering.

A16. Photographs (List subjects, direction of view, and accession numbers or attach a Photograph Record.):

Original Media/Negatives Kept at:

***A17. Form Prepared by: Linda Kry**

Affiliation and Address: AECOM 515 South Flower Street, 9th Floor, Los Angeles, CA 90071

Date: 2/18/2010

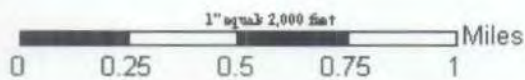
LOCATION MAP



Source: USGS 7.5' - Los Angeles Quadrangle, California (2004)

Key

- Cultural resource



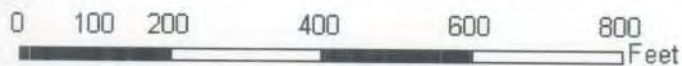
Site Location Map

Archaeological Assessment for the Temple Street Widening Project City of Los Angeles, California

SKETCH MAP



Source: Terraserver-USA



Site Sketch map

Archaeological Assessment for the Temple Street Widening Project City of Los Angeles, California

CONTINUATION SHEET

Continuation Update

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.):



P5b. Description of Photo: (View, date, accession #):

Image of cemented Zanja No. 6-1 segment located on the southern side of E. Temple Street. View to North.

CONTINUATION SHEET

Continuation Update

***A4. Features** (Number, briefly describe, indicate size, list associated cultural constituents, and show location of each feature on sketch map.):
Feature 3 is a structural feature that was encountered during construction activities. Feature 3 consists of a segment of the *Zanja 6-1* that was discovered during hand excavation on the south side of Temple Street. The exposed portion of the segment measured 11 feet long by 24 inches wide and did not appear to evidence any damage or loss of integrity. The segment was discovered approximately 24 inches below the bottom edge of Temple Street's southern curb and appeared to extend from the curb north under Temple Street.

***A5. Cultural Constituents** (Describe and quantify artifacts, ecofacts, cultural residues, etc., not associated with features.):
Overlaying part of this *zanja* segment was a layer of concrete, approximately four inches thick. The concrete did not appear to have damaged the *zanja* in any way. Three whiteware type ceramic fragments, with a date range of 1810 to the present, were found just above the feature.

A catch basin was uncovered east of the segment, near the southern end of the exposed portion of the *zanja*. The catch basin was approximately 26 to 35 inches long and 18 inches wide, with the basin itself measuring at least 32 inches deep. Sediment within the catch basin was hand excavated and did not contain any diagnostic historic artifacts. The west wall of the catch basin contained a hole, which may connect with the *zanja*. However, there was a six inch inactive modern pipe that cut through a section of the *Zanja*, apparently the results of previous utility construction not related to the Temple Street Widening Project activities. When the *zanja* was no longer used to supply water to Los Angeles, parts of it were converted for use as sewer and storm drains. The catch basin may represent this segment's use as a storm drain.