ARROYO SECO PARIWAY

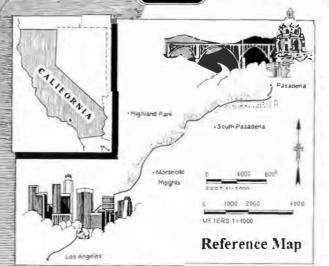
The Arroyo Seco Parkway (Pasadena Freeway) was the first grade-separated, limited-access, high-speed divided road in the unan western United States, and the initial stretch of road for what would become the world-renowned Los Angeles metropolitan area freeway system. Built in three major stages from 1938 to 1953, the 8.2-mile parkway was envisioned both as a scence, pleasure road traversing the Arroyo and a vital traffic conduit linking the expanding othes of Pasadena and Los Angeles. Combining deas remaiscent of an older parkway tradition and those more appropriate for modern freeway design, the Arroyo Seco Parkway marks an important transitional moment in the history of American engineering and transportation.

The roadway, as completed in 1953, extended from Glenarm Streat in Pasadena to the Four-Level Interchange just northwest of downtown Los Angeles. The approximately eleven-million dollar roadway includes over thirty bridges and underpasses, four tunnels interest a safety features, and a landscaping program that included a primarily native plant palette. Its construction was facilitated by the installation of the concrete Arroyo Seco Flood Control Channel, built as a Works Progress Administration relief project. The parkway's 1953 completion marked the final chapter in a decades-long series of plans and proposats for an automobile road connecting Los Angeles and Pasadena.

The first spade of earth was turned for the Arroyo Seco Parkway in March of 1938 under the aegis of the State Division of Highways. Although a large and unwieldy coalition of state and local lawmakers and planners, as well as the cities of Pasacena, South Pasadena, and Los Angeles, the Automobile, Cibb of Southern California, the Union Pacific and Santa Fe Railroads, and residents along the right-of-way agreed to the support the road's construction, its route selection did not entirely avoid confoversy.

The parkway, built originally to nandle 30,000 automobites per day, carned more than 100,000 per day at the end of the

Pasadena 110 Freeway



milenium Initia y considered a model nigh-speed road, many grivers now consider the tight curves and difficult-to-negotiate entrances and exits of the Arroyo Seco Parkway inadequate for modern-day traffic. With some exceptions, the parkway nevertheless remains title aftered since its mitial construction.

The Arroyo Seco Parkway Recording Project is part of the Historic American Engineering Record (HAER), a lang-range program that documents instoncally significant engineering, industrial, and mantime sites in the United States. The HAER program is administered by the Historic American Busidings Survey/Historic American Engineering Record (HABS/HAER) Division of the National Park Service. U.S. Department of the Interior. This project was co-sponsored in the summer of 1999 by HABS/HAER under the general direction of E. Blaine Cliver, shief, and by Distinct VIII of the California Department of Transportation, Bob Sassaman, acting director, Raja Mitwasi, division chief of planning and public transportation, and Ron Kossinski, environmental planning affice thef

The interpretive drawings historic report, and photographs were prepared under the direction of Enc N DeLony, chief of HAER The recording team included Andrew Johnston. supervisory architect (U.C. Berkeley), and Christopher B. Brown, Christopher Dalbey (Santa Ana, California), Arabella González (U.S./ICOMOS, Guadala, ara Mexico) and Syoney Mainster (U.C. Berkeley), architects. J. Philip Gruen, project Instorian (U.C. Berkeley) and Porba Lee, historian (California Archives Los Angeles), and Brian Grogan, photographer (El Portal, California) Landscape drawings were composed by Peter Hao, architect (Meléngrez-Babalas Associates, Los Angeles) Project assistance was provided by Diane Kane. architectural historian (California Department of Transportation, District VII), Charles J. O. Connell, engineer (California Department of Transportation District VIII) Lauren Me éndrez (Meléngrez-Babalas Associates Los Angeles). Todd Croteau, manager (HAER Roads & Bridges Program, Washington, D.C.), and Tim Davis, historian (HAER, Washington, DC)

ROYO SECO PARKWAY
ECORDING PROJECT

95

1938-

PARKWAY

SECO

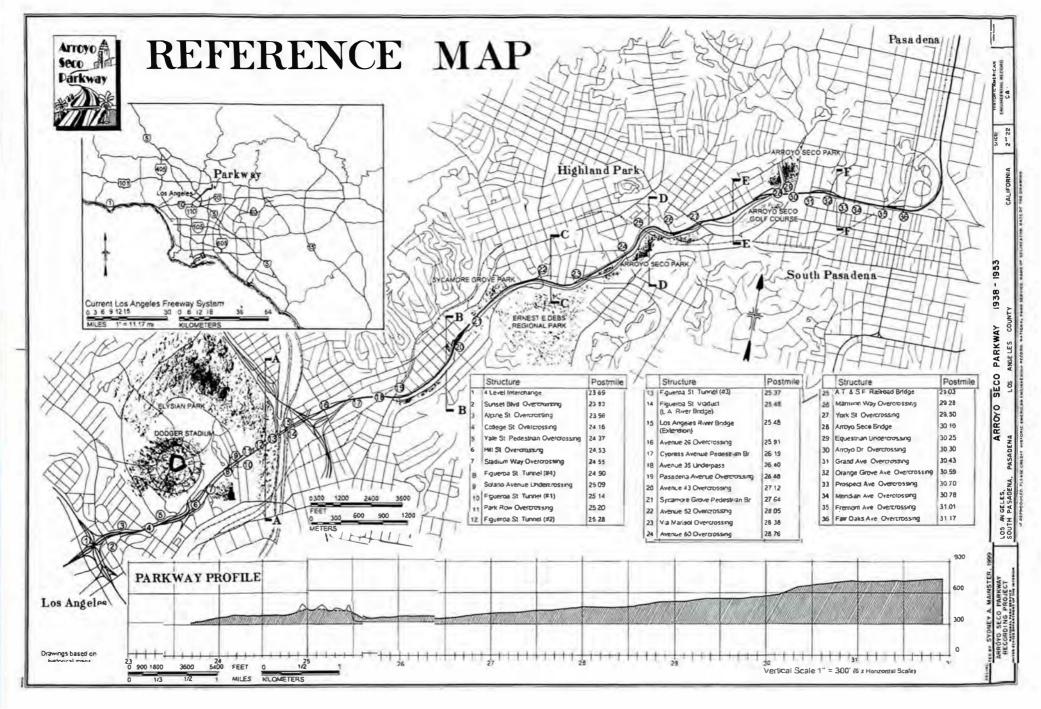
ARROYO

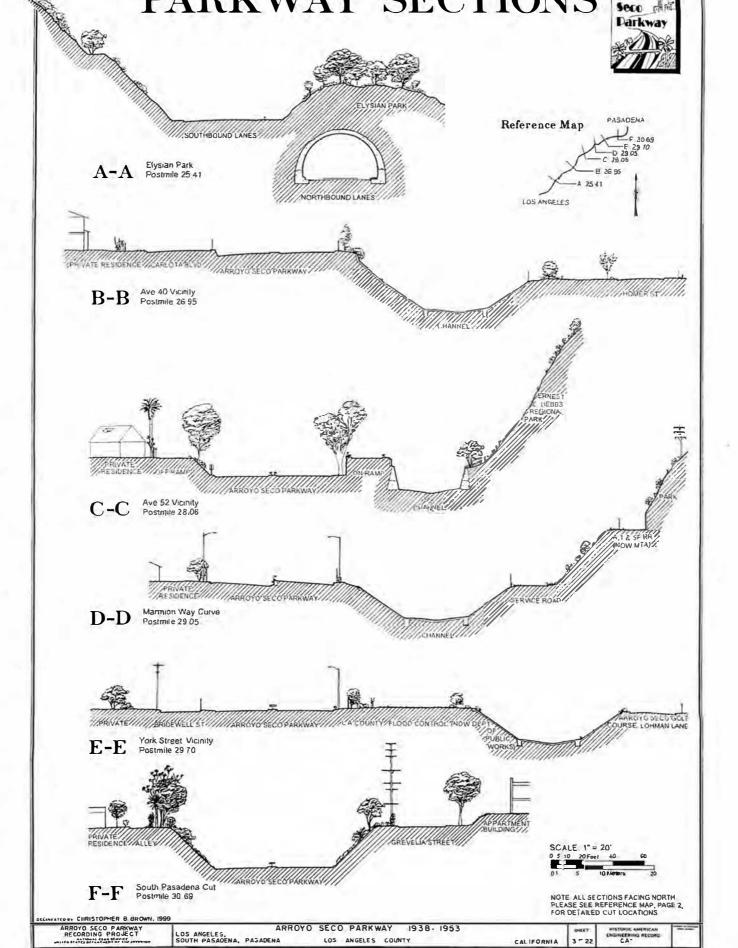
The following set of Arroyo Seco Parkway (Pasadena Freeway) drawings was completed during the summer of 1999 by the Historic American Engineering Record. To conceive and produce the illustrations and the accompanying text, HAER team architects and historians used "as built" drawings furnished by District VII of the California Department of Transportation in addition to original photographs, journal and newspaper articles, secondary sources, and other miscellaneous documents found in libraries and archives throughout California. Because thousands of the technical, asbuilt construction drawings already exist, the HAER team produced drawings that interpret the parkway for a wider audience.

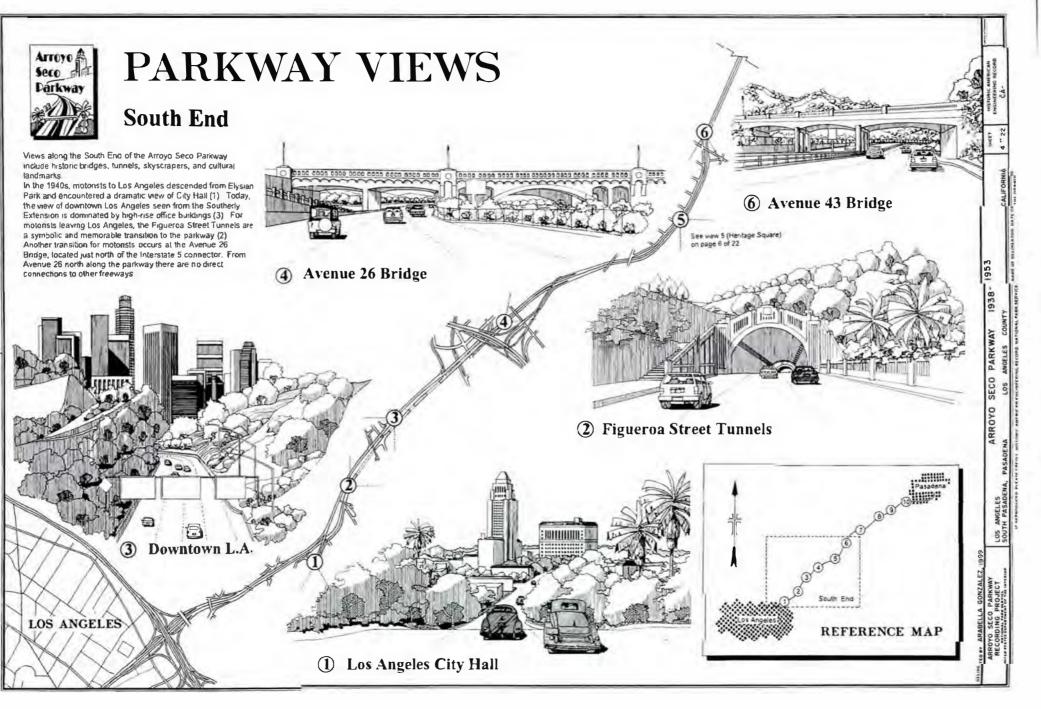
These drawings primarily tell a story of the parkway from its turn-of-the-century incarnations as a scenic, recreational drive twisting along the bed of the Arroyo to its 1953 completion, when it joined a network of high-speed roads. Although the parkway was declared the "first freeway in the West" by Governor Culbert L. Olson at the opening of the original six miles of road on December 30, 1940, that stretch exhibited characteristics common both to an older, east coast recreational "parkway" tradition and those of a high-speed freeway designed to move commuters quickly between two points. In doing so, the road provides an excellent example of a transitional moment in the history of American engineering, as "parkways" became "freeways."

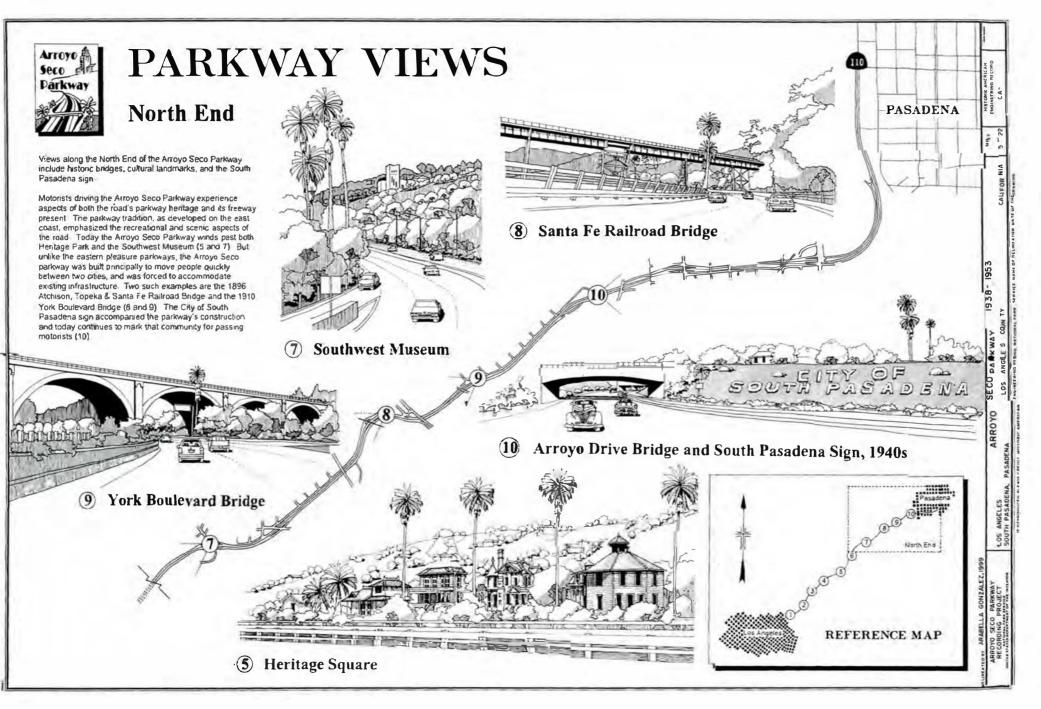
While the Arroyo Seco Parkway is representative of this larger moment, its time in the limelight was nevertheless remarkably brief. The roadway was not, in fact, finished in December of 1940. Three months earlier, plans were already in the works for a four-lane "southerly" extension to reduce anticipated traffic congestion, bring the road further into downtown Los Angeles, and move it closer to an ultimate goal of connecting a series of regional high-speed roads. Instead of reading the parkway exclusively in its 1940 moment – a reading that would artificially freeze it in a guise it never wholly assumed — the HAER team followed its construction to the Four-Level Interchange (and to the newly-connected freeway network), which marked the final chapter in a series of plans that began more than fifty years earlier.

This is one story of the Arroyo Seco Parkway; there are plenty of others, and they can be interpreted in myriad ways. There is the political story of state lawmakers, local planning commissions, and city authorities instrumental to the construction process, and that of residents and businesses along the right-of-way who battled over the selection of the parkway's route. There is the story of the motorists' visual experience as they drove (or drive) the parkway, and that of the water channel necessary to allow for year-round driving. Some of these stories lend themselves to drawings; others do not, and they will be more extensively covered in the historic report. Yet none of the stories sort themselves out very easily, and our brief summer project merely scratches the surface of the complex and continuing history of the Arroyo Seco Parkway.

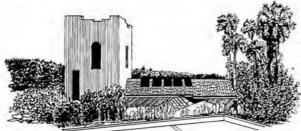








RECREATION AND CULTURE



3. Southwest Museum

Set on a 38-acre hillside site overlooking the Arroyo Seco, the Southwest Museum was founded in 1907 through the leadership of Charles Fletcher Lummis. His collection became the nucleus of the Museum's extensive collection of Native American art and artifacts. The original main entrance was through the "Mayan" tunnel at the base of the hill, 108 feet below the main



4. The Lummis Home

Charles Fletcher Lummis built his home between 1896 and 1910 using concrete and wood beam construction faced with Arroyo Seco boulders. Lummis named it "El Alisal" for a diani tree in a grove of alders near the house. Lummis gathered together a circle of artists and craftsmen who worked to establish what has become known as the "Arrovo Culture."

Park enthusiasts celebrated the distinctively Californian landscape of the Arroyo Seco's rocky bed as "snimmering gravel sunflecked through the leaves of scattered sycamores. Visitors picnicked under the 300 yearold trees in Sycamore Grove, a lively site for merrymakers arriving by stagecoach Arrovo Seco Park stretched from Aven 35 to the South Pasadena city limits until the roadway opened Pedestrians then crossed the Arroyo on the West's first prespessed concrete footbridge to reach the eastern side of the park remaining after the freeway route preempted a large section of South Pasadena parkiands

FRNEST E DEBS

1. Arrovo Seco Golf Course

Most of the Arrovo Seco within South Pasadena hack become city property by 1927. After the completion of the Arroyo Seco Parkway, 96 acres of parkland remained on both sides of the roadway. An 18-hole golf course was created in 1955 using 48 acres of this green space.

SOUTH PASADENA





Heritage Square Museum

Heritage Square, established in 1969 as an open-air museum, displays late nineteenthcentury structures that have been restored and moved onto its site. Shown are Perry House, "Mt Pleasam," and the Hale House, built in 1876 and 1885 respectively.



2. Sycamore Grove Park

Sycamore Grove Park runs along the border of what pace was Rancho San Rafael, part of an early Spanish land grant, After Highland Park's annexation to the city of Los Angeles in 1895, Los Angeles purchased a section of Sycamore Grave for use as a crity park. A portion of the park was described during the construction of Arroyo Seco Parkway



SECO PARKWAY



GEOLOGY AND ECOLOGY



The Arroyo Seco

Translated as "dry creek," the Arroyo Seco is a prominent feature of the northeast Los Angeles landscape, heading from Devits Gate Canyon in the San Gabriel Mountains north of Pasadena to the Los Angeles River near Elysian Park. Seasonal rains and largely impensious soils mean that the Arroyo, which is usually a dry stream bed with some vegetation, occasionally becomes a rading river in the writertime.



Sambucus mexicana Mexican Elderberry



Salvia leucophylla Purple Sage



Cortadena selloana Pampas Grass



Arctostaphylos sp. Manzanita



Schinus molle California Peppe



Bacchans pullaris Dwarf Coyote Brush



ovon. 4')

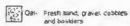


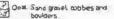
Eucalyptus Sp Eucalyptus Tree

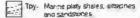


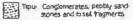
Most of the region through which the Arroyo Seco flows is covered by layers of Upper Terbary sediments that may be as much as 14,800 feet thick. The recent and ofter alluvium dominating the top 2,900 feet of material consists mainly of sand gravel, cobbles and poulders. These alluvial peopers out of which the Arroyo was scoured surround relatively small areas of exposed older layers of sedimentary sione. The soils within the immediate vicinity of the Arroyo Seco consist primarily of recent alluvium ranging from sit to large gravel. Fresh outcoppings of igneous and metamorphic rocks are present only in a few spots along the Arroyo Seco. In addition, a section of marine shale, sitistone and sandstone referred to by Geologist as the Upper Pluente formation is found in the central and southern parts of the

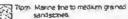
SOIL LEGEND













The Arrayo Seco before construction.

DEVIL'S GATE

ARROYO, SECO

LOS ANGELES

DAM

THE CONTROL OF WATER

To build the Arroyo Seco Parkway for year round use the water flow and periodic flooding in
the arroyo had to be controlled. The water flow
in the arroyo begins in a 13,700-acre watershed
in the San Gabriel Mountains and flows to the
Los Angeles River and on to the Pacific Ocean.
To begin to control the periodic flooding of the
arroyo, the Los Angeles County Flood Control
District constructed the Devli's Gate Dam, a
concrete gravity arch-type dam, at Devil's Gate
Gorge from 1919 to 1920. By the 1930s, plans
had been made to construct a concrete channel
through the arroyo.

Basin

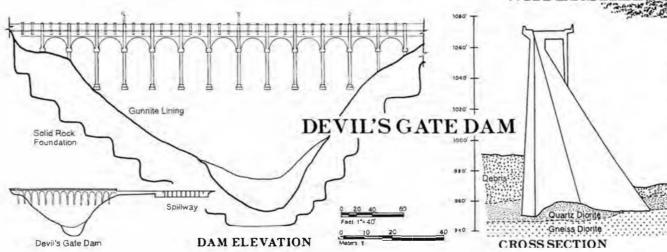
Not To Scale

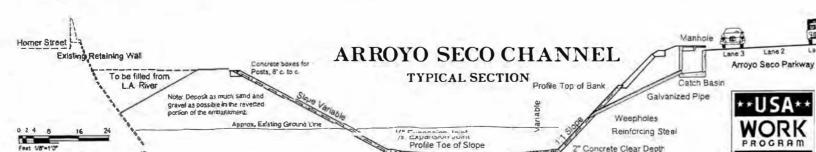
PACIFIC OCEAN

Once construction began on the Arroyo Seco Parkway it became necessary to coordinate parkway and channel improvement plans. The work on the channel involved excavation, lining the channel with Portland cement concrete, erecting bridge substructures, and the rough grading and roadbed construction for the parkway. The work was performed by Works Progress Administration (WPA) forces, under the plans and direction of the City of Los Angeles Engineering Department. The City of Los Angeles was the channel project sponsor, with the gremalning cost absorbed by state highway funds.

San Gabriel Mountains

ARROYO SECO WATERSHED





Devil's Gate Dam cross-section based on L.A. County Flood Control District map 6-19-73.

Devil's Gate elevation based on L.A. County Flood Control District map. C203.

Watershed map based on L.A.
County Flood Control District
Comprehensive Plan. 1967.

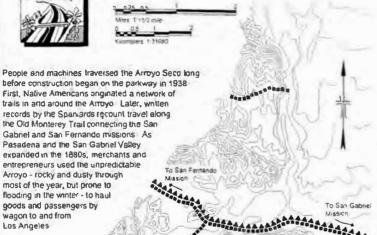
Channel section based on City of Los Angeles Engineering Dept. contract drawing 9-FD. ROYO SECO PARKW

SECO PARKWAY



Los Angeles

EVOLUTION OF TRANSPORTATION



The difficulty of moving through the Arroyo was overcome by the Los Angeles and San Gabriel Valley Railroad (LA & S G V), which built a 838'-0"-long, 38'high wooden railroad trestle across the Arroyo in 1885 Steam railroads and electric streetcars carned goods. commulers, and tourists between Los Angeles and Pasadena over the next Inirty-five years In 1895, the Pasadena & Los Angeles Railway Company ran the first electric coach between the two cities. adding another trestle over the Arrovo This company, later purchased by Henry

a steam locomotive in the background



The increasing popularity of the automobile and spontaneous "litney" bus service posed a significant threat to rail transit by the mid-1910s. Automobiles and buses were soon battling streetcars, horses, wagons, pedestrians, traffic lights, and stop signs along the major routes leading into and out of downtown Pasadena and Los Angeles The ensuing traffic proptem spurred proposals for more high-speed routes between the cities. Meanwhile, concurrent proposais for a high-speed automobile route gained favor and soon all other proposals would be outdated

TIMELINE.

Monterey Trail Construction of LA & S G V wooden railroad trestle over Arrovo Seco.

rCreation of Los Angeles Terminal Railroad

Renovation of existing AT & S.F. Railroad Bridge Henry Huntington buys P & L A Railway and makes it part of expanding LA railway system

Completion of Pacific Electric Short Line route Proposed monorall from Eagle Rock to downtown L A passing through Arrovo

Incorporation of Los Angeles & San Gabriel Valley Rallroad (LA. & S G V) (AT & SF) buys LA & SGV

Atchison, Topeka & Sante Fe Rairoad & Founding of Pasadena and Los Angeles - Construction begins on Electric Railway Co (P & L A)

1894 1896

Horace Dobbins' 'Cycleway as Pacific Electric

LA Railway incorporated

Litney bus routes begin to threaten supremacy of rail transportation

Construction begins on Arroyo Seco Parkway

SECO

OAC

Early Transportation Through The Arrovo COURS Native American Routes

AAA Montesey Trail

Man based on 1894 USGS map and Hughland Park News-Herald May 17, 1953 Abovengfit drawings based on historic photographs

While 1 1/2 miles of the 'cycleway' was actually built, neither of these proposals was fully implemented

E Huntington's Pacific Electric (P.E.)

cities (see map at right)

company, built additional lines linking the

None of these lines provided an efficient

Arroyo T D Allen surveyed the Arroyo

and congestion-free route through the

for a road in 1895. In 1897, entrepreneur Horace Dobbins proposed an elevated bicycle tollroad from downtown Pasadena to downtown Los Angeles, via the Arroyo

Urban Transportation Corridor Mag based on 1894

erese Streetcar Lines ODO AT &SF Ra Wood

Primary Automobie Roules (Pre-Parkway) Arroyo Seco Parkway

USG 5 map. 1948 Thomas Bros Allas, 1939 LA Rashway Corp Route Mag, and 1923 P E Official Transportation Map

FROM PARKWAY TO FREEWAY

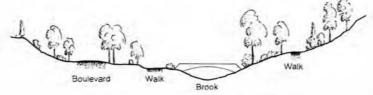


1912 Los Angeles Park Commission Proposal

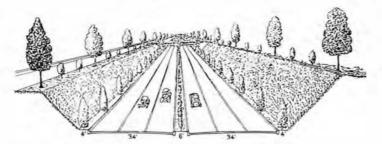
The design of the Arroyo Seco Parkway part recreational parkway, part commuter freeway - is rooted deep in the road's past The earliest supporters for a road imagined Brothers and Harian Bartholomew it as a "parkway." part of a larger strip of scenic and publicly-held land intended to link urgan parks and improve the moral and physical health of the city In 1912, the Los Angeles Park Commission and landscape architect Laurie Cox released the first official plan for a parkway through the

Arroyo (above) The park commission's approach was reaffirmed in a 1930 report for Los Angeles parks compiled by Olmsted

"Freeway" supporters saw the Arroyo as little more than a landscape feature that could provide the least congested commuter route between Los Angeles and Pasadena - at least for part of the way



1912 Proposal - Typical Section



1916 Proposal - Section Looking Note Organics not to scale West from Fremont Ave. Bridge



1940 - View of the Parkway Looking North Towards the Via Marisol Intersection

Drawnos based on 1912 L.A. Park Commission Proposal. 1916 City of Pasadena Proposal. and historic sheapcraphs



In 1916, the city of Pasadena proposed a route that turned east from the Arroyo to meet Broadway in Pasadena, providing a more direct connection between the business centers of the two cities (above, right) Many traffic plans presented in the 1920s and 1930s followed essentially the same alignment. A visionary section of the road drawn in 1916 appears strikingly modern, where even the langscaping elements contribute to the engineering

precision necessary for high-speed road design (center, middle)

ARROYO SECO PARKWAY

The indial stretch of road completed in 1940 formally recalled both sides of the early parkway-freeway dichotomy (center, bottom). Once engineers extended the road southward with the ulbmate intention of linking it with a larger freeway network. this dichotomy faded and the parkway more glosely resembled a freeway

TD Allen surveys Arrovo for a road

Progressive reformer Dana Bartielt calls for "charming" Arrovo Seco Drive

Plan for Arroyo Seco Parkway drawn up by Laurie Davidson Cox as part of larger Los Angeles park and boulevard system

-L A Traffic Commission recommends commuter thoroughfare via Arroyo as part of major traffic plan for L A region L A Regional Planning Commission suggests Arroyo Seco Freeway to connect with Broadway in Pasadena

Construction pegins on parkway

Henry Dockweiler includes Arroyo Seco in larger plan to link Los Angeles area parks with looping, recreational road

Los Angeles Park Commission calls for "winding driveway" through bed of Arroyo City of Pasagena proposes Arrovo Seco Parkway to run into heart of Pasadena

Olmsted Brothers and Bartholomew and Associates recommend Arroyo Seco Parkway in the spirit of the early, recreational proposals

Extension of proposed Arroyo Seco Parkway to Devil's Gate Dam rejected by Pasadena voters

r 1937 1938

PARKWAY

Seco

PARKWAY DEVELOPMENT

Pasa dena

South Pasadena

The 8 2-mile Arroyo Seco Parkway was completed in three major stages from 1938 to 1953 District engineers for the California State Division of Highways, led by Chief Engineer Spencer V Courtelyou and Design Engineer A D Goffin, oversaw most of the road's design, There was also design input from individuals outside of the Division of Highways, most notably Los Angeles Cily Engineer Lloyd Aldrich, Pasadena City Engineer Harvey W Hincks, Automobile Club of Southern California Chief Engineer Ernest E. East, and officials from

the federal relief project. Drawings based on Califrans as-buit contracts

Erecting Formwork for Park Row Bridge



The second major stage of construction involved the 2.2-mile "Southeriv Extension" from Avenue 22 to Adobe Street in Los Angeles Plans for this section were well underway before the opening of the in tial stage. In anticipation of heavy traffic, this section added four southbound lanes through Elysian Park and turned the existing Figueroa Street Tunnels and Viaduct into a four-lane porthbound route. The extension opened on December 30, 1943. exactly three years after the initial stretch These opening dates were not entirely coincidental planners wanted the roads to be finished in time for Pasadena's wew Year's Day Tournament of Roses Parade and college football game at the Rose Bow

STAGE 1

The first major stage involved the construction of an approximately six-mile stretch of road extending from Glenarm Street in Pasadera to Avenue 22 in Los Angeles Although the road's alignment had been surveyed by the mid-1930s, construction did not officially begin until March of 1938 Contractors offered plds for the different sections of roadway, the work for which required companies to provide varying combinations of grading, paying, and the erection of bridges and underpasses. This work proceeded roughly from northeast to southwest with portions of the newly-completed contracts opened to traffic along the way J E Haddock Ltd of Pasadena was awarded many of the contracts, but at least nine other contractors also contributed Although work along a section of road between Pasadena and South Pasadena still awaited completion, the first stage officially opened to traffic on December 30, 1940.



Los Angeles



STAGE 3

The 1953 completion of the final stretch of road connecting the Arroyo Seco Parkway to the Four-Level Interchange, linked the parkway with the growing Los Angeles regional freeway network



TIMELINE.

First three Figueroa St Tunnels completed

rqueros SI Viaduct completes I

from Glenarm St to Fair Oaks

January 4th - section completed in October - construction begins for Southerly Extention

-December 30th - ceremonial opening of parkway

December 30th - opening of Southerly Extension

FFour-Level Interchange completed

for parkway at Grand Ave

March 22nd - groundbreaking July 20th - section completed from Crange Grove to Ave 40

METERS

November 1st - sectioncompleted from Ave 40 to Ave 22

January 31st - section completed from Fair Oaks to Grand Ave

Bridge (extension) fully completed

December 22 - final section completed, connecting the parkway to the Four-Level Interchange

Fourth Figueroa St Tunnel completed

Second Los Angeles River

1953

SEQUENCE

Signs were designed and installed by the Automobile Club of Southern California.

Street Lights were made by the Marbelite Company, model no. 485-26.

Landscaping featured native plants and was installed by City of Los Angeles forces.

 Pavement consisted of both asphalt concrete and portland cement concrete.

Curbs and Gutters were poured inplace and guardrails were installed at entrances and exits.

The Road Base was constructed of select material consisting of sand and 'A' rocks.

The Rough Grade was shaped with sand and gravel from the Arroyo Seco Flood Control Channel excavation.

Storm Drains and Sewers were installed 5' to 10' beneath the parkway surface.

Once the Arroyo Seco Parkway alignment was chosen, the California State Division of Highways let contracts to a number of different companies for the preparation of the roadbed First, workers associated with the federally-assisted Arroyo Seco Flood Control Channel project used excavated channel material to perform much of the rough grading for the parkway. Then private contractors shaped the existing landscape by cutting away high spots and filling depressions to provide a solld foundation for the laying of concrete. In addition to grading and paying, many contracts also required the installation of curbs, gutters, walls, storm drains, and service roads.

Contractors used a variety of machines to build the roadway. Tractors, buildozers, and carryal's were used for the excavation and grading of the roadway, and sheepsfoot rollers for compacting fills. Trench machines and cranes were put into service for the excavation and construction of the storm drains. Some of the embankments included 170,000 cubic yards of material excavated from the nearby Los Angeles River Flood Control Project.



GRADING THE ROUTE



The construction of the Arroyo Seco

create a structurally sound parkway.

Parkway can be understood as a sequence of layers necessary to

PREPARING THE ROAD BASE



INSTALLING CURBS & GUTTERS



LAI LEOBNIA IR

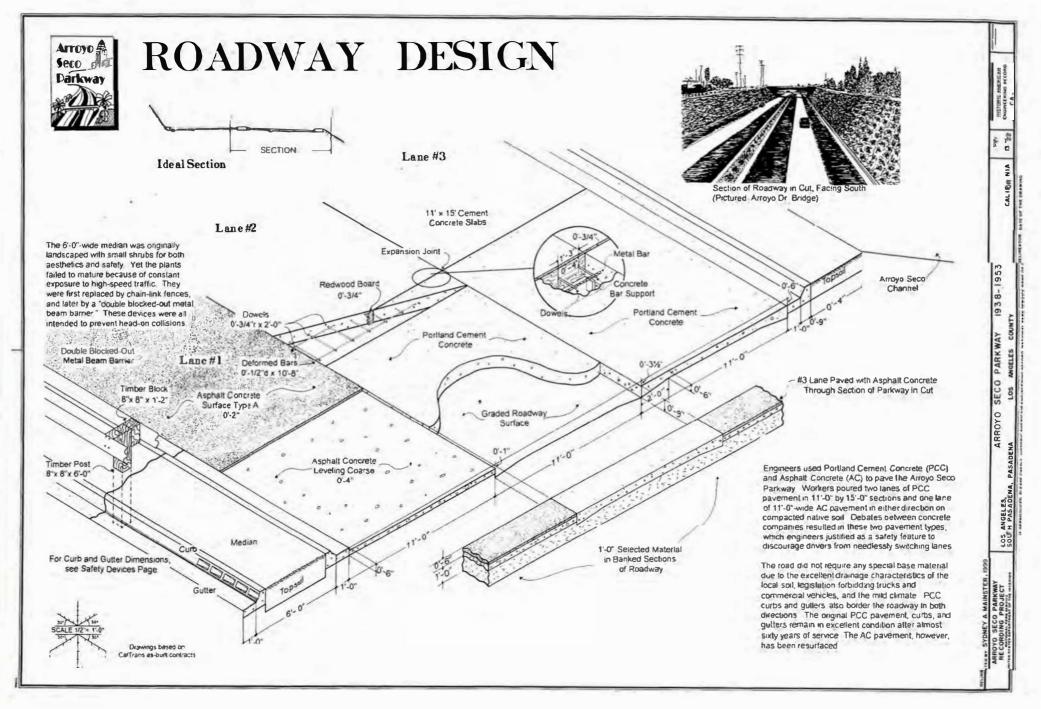
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ARROYO SECO PARKWAY 1938-1953

NA, PASADENA

SOUTH PASADE

RECORDING PROJECT





PARKWAY ACCESS

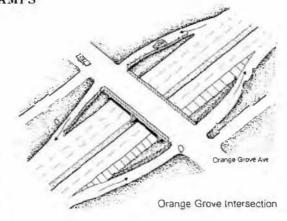
This new, limited-access highspeed road required specially designed entrances and exits to move molorists as quickly and safely as possible. Southern California drivers were not yet accustomed to such roads, so engineers incorporated various safety features into the design.

To warn drivers they were approaching an access lane, these features included flashing amber beacons both within the curb itself and on 4'-0'-tail posts (see detail in upper right comer). To control movement at points of access, engineers later installed triangular asphalt islands with small glass beads embedded into the alternately painted black and white curbs.

Faced with the problem of a narrow right-of-way and the unique geology of the Arroyo, engineers essentially designed two types of access systems, with the third type as a hybrid.

- 1. "Compressed cloverleaf" intersections. To enter. drivers stop nearly perpendicular to the flow of traffic and quickly accelerate. Exiting vehicles must maneuver into a light curve under heavy braking
- 2 Acceleration / Deceleration Ramps, These give drivers space to blend with or withdraw from faster moving traffic on the parkway.
- 3 Hypnd intersections These combine the above two types

2. ACCELERATION / DECELERATION RAMPS



Amber Flashers Concrete Curb Ruby Red Reflectors COMPOSITE CURB DETAIL

INFORMING THE MOTORIST

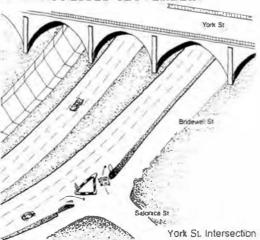
SIGNS

The public had to be educated as to how to navigate the intersections. These signs, designed by the Automobile Ctub of Southern California, informed drivers of upcoming exits and warned drivers not to turn into oncoming traffic.

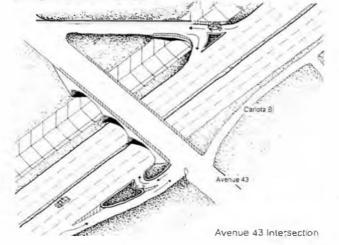


INTERSECTION TYPES

1. COMPRESSED CLOVERLEAF

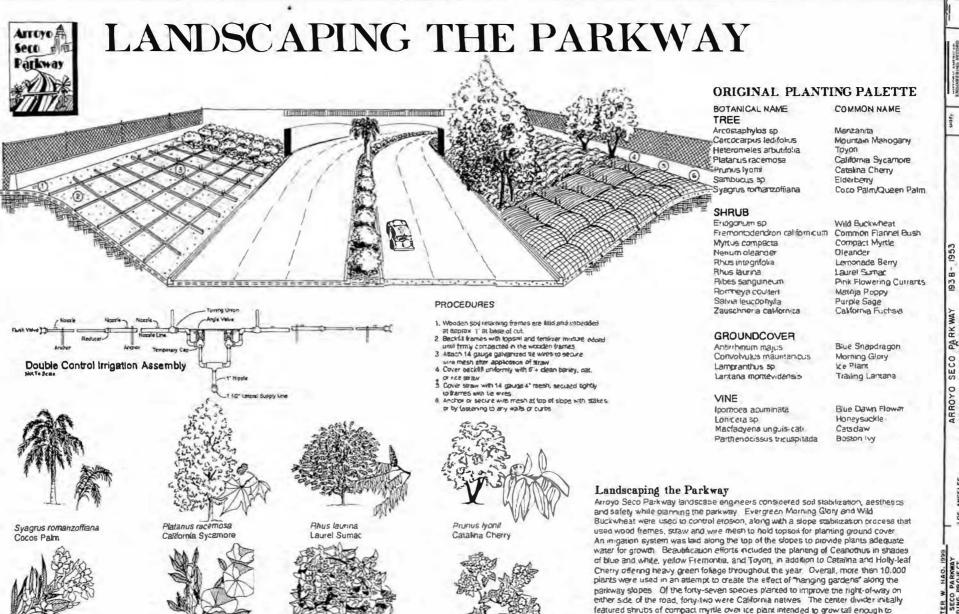


3. HYBRID SYSTEM









Lantana montevidensis

Trailing Lantana

Convolvulus mauritanicus

Morning Glory

Nerium oleander

Oleander

Lampranthus so.

Ice Plant

shield motorst headlight dare

RECORDING PRO

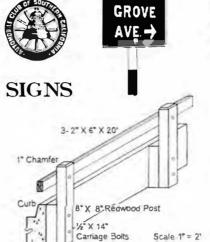


PARKWAY SAFETY DETAILS

Parkway engineers worked to make the road as safe as possible, combining standard safety features in innovative ways to meet the needs of a high-speed freeway. Safety design features included signs, safety barriers, and curbs along the parkway, and changes in pavement color on the road surface to discourage lane changes. Special sodium vapor safety lights were installed along the parkway and at all entrances and exits.

Safety parriers included redwood quardrails at on- and off-ramps, and chain-link fences along both sides of the entire parkway. Concrete rubble walls, made of recycled sidewalks, were constructed as retaining walls.

"High visibility" curbs were designed for the center dividing strip and the traffic islands at entrances and exits. These curbs had indentations and paint designed to reliect headlights, warning motorists about roadway



ORANGE

Reflectorized Letters Automobile Chub Sea 4" X 4" Swiped Post



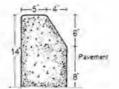
Pinnacle Ornaments

Triple Galvanized



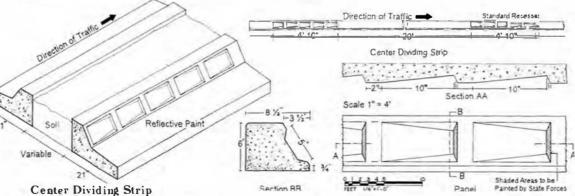
Wire Mesh I Frame Steel Post Chain Link Fence



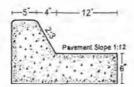


SAFETY BARRIERS

Ramp Guardrails



TYPICAL CURB



INTEGRALCURB & GUTTER

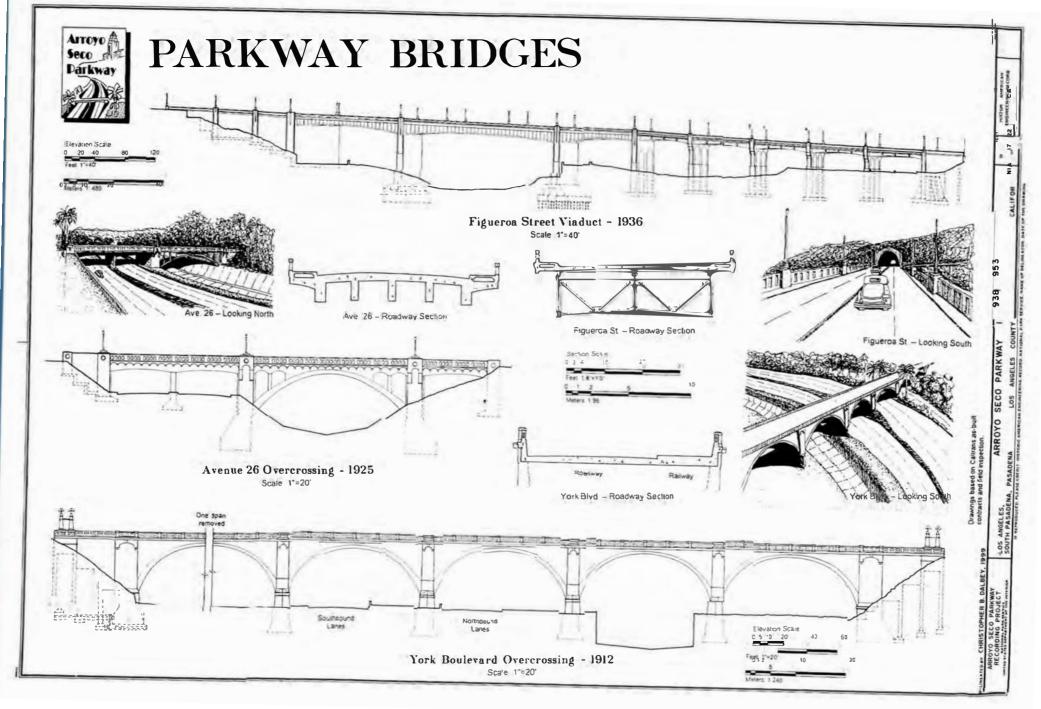
HIGH VISIBILITY CURBS

Design of these details was accomplished jointly by the city engineering departments of Los Angeles, Pasadena, and South Pasadena, the district office of the State Division of Highways, and the Automobile Club of Southern California. Supervision of construction was handled by the state

ARROYO 600 V. 30% Para-Rubber #10 Wire -Marbelite No. 485-26 Lighting Post and Equipment

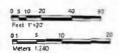
SECO

Scale 1" = 1"





PARKWAY BRIDGES





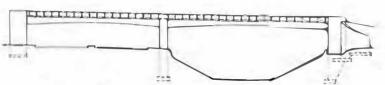




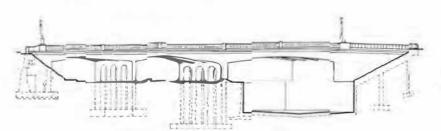




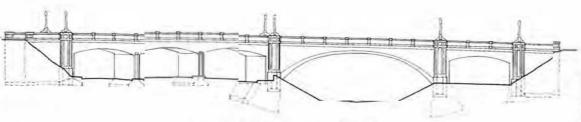
Arroyo Seco Channel Pedestrian Bridge - 1951
Scale 1'=10'



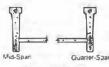
Sycamore Grove Pedestrian Overcrossing - 1940



Avenue 43 Overcrossing - 1939
Scale: 1"=20"



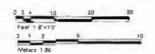
Avenue 60 Overcrossing - 1925
Scale 1'=20'



Scale 1/4'=1'0"



Scale 1/4"=1"0"



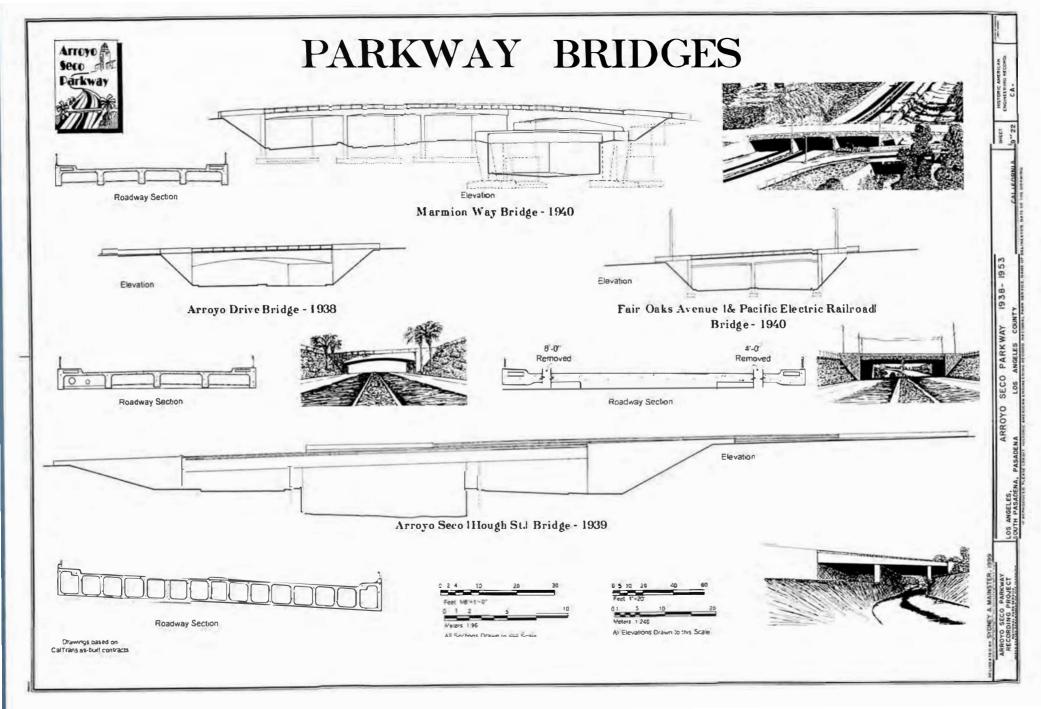
Scale: 1/8"=1"0"

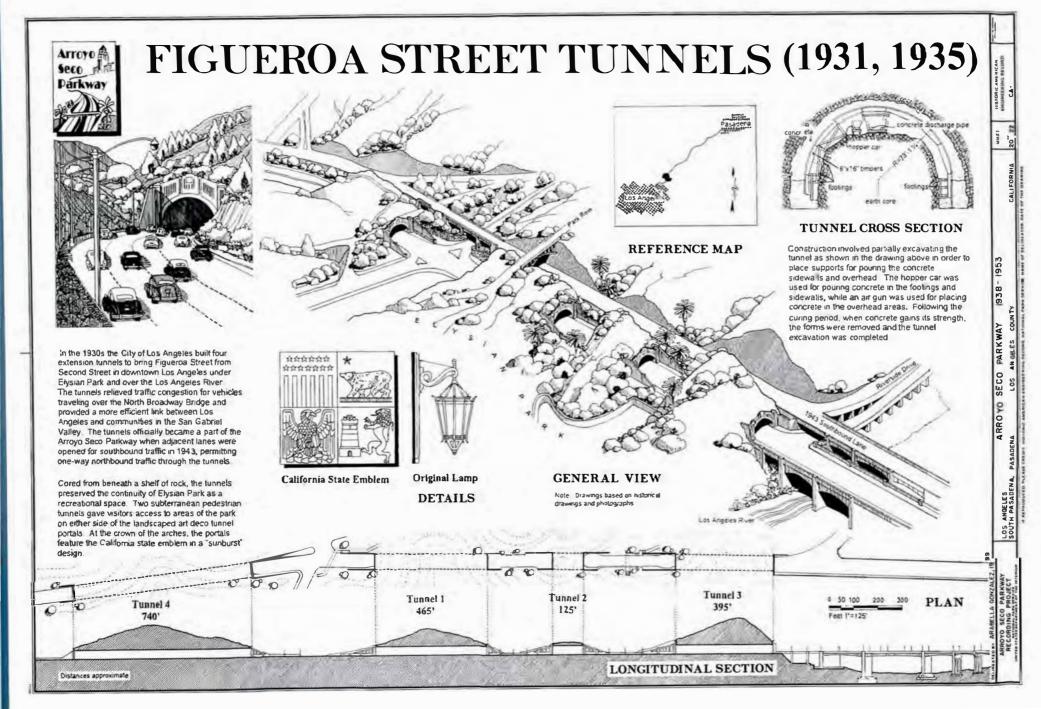
Section symmetrical argund center line

Scale. 1/8"=1"0"

Drawings based on various Calif

OS ANGELE







THE SOUTHERLY EXTENSION

TYPICAL SECTION (BASE)

1940-1943

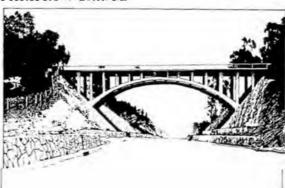


FIGUEROA VIADUCT, 1940

Planners had long anticipateo that the first six miles of parkway alone would not solve the Los Angeles-Pasadena traffic problem Three months before the first stretch was officially opened to the oublic, grading began for a "southerly extension" to bring the road approximately two miles closer to downlown Los Angeles. This extension was intended to alternate the bottleneck occuming just east of the Figueroa Street Viaduct, where three-lane southbound parkway traffic met two-lane Figueroa Street, and west of the yiaduci, where twotane Figueroa Street traffic was slowed by at-grade intersections and a left turn, across southpound traffic, onto Riverside Drive

(eff) The southerly extension transformed a section of the four two-way lanes of Figueroa Street, with its existing tunnels and viaduct, into one-way northbound travel, and workers built four adjacent southbound lanes and another viaduct to pring the roadway as far south as Addoe Street

PARK ROW BRIDGE



Where the design of the original six miles of the Arroyo Seco Parkway exhibited a balancing of traditional parkway "beautification" with ideas pertinent to the construction of a nigh-speed freeway, the southerly extension was conceived principally as a traffic reduction necessity, and thus more closely resembles the latter. Exposives hoped into a park nill to make way for the new road because more tunnels – which would have maintained the continuity of Elysian Park – were not deemed economical (upper right). Rock from the massive cut was used, among other things, for the construction of a dam to enlarge an existing city owned reservoir. The War Department declared the project part of the National Strategic System of Roads in 1941, allowing for federal gollars, WPA fabor, and wartime priority for steel and concrete. To erect giant preces of steel for the new viaduct, stiff-legged demck recently used to build the New York-New Jersey George Washington Brudge, was rushed to Los Angeles.

There were however, a few design features that linked the southerty extension to the "beautification" ideals of the original parkway. Most prominent among these was the construction of the graceful Park Row. Bridge a single-span, open-spandrel reinforced concrete design that creates a gateway to downtown Los Angeles for south-bound motorists (above).

Pasadena
REFERENCE MAF

os Angeles

PLAN, 1943



Note Plan adapted from 1933 U.S.G.S. map & Caffornia Highways and Public Works Magazine, April 1941. Pan Row Bridge and Eguetoa St. Vladuct perspectives from historic photos. Seebon from Las forma Highways and Public Works Magazine. Cotober, 1940.

FIGUEROA ST. &

LOS ANGELES RIVER VIADUCTS, c.1943 O SECO PARKWAY

PASAMINA

LOS ANGELES. SOUTH PASADENA

ECORDING PROJECT

