

INFORMATION HANDOUT

For Contract No. 07-295604

At 07-LA-5-19.2/28.9

Identified by

Project ID 0713000024

MATERIALS INFORMATION

ADL Concentration Data and Sample Locations Maps

Geotechnical Design Report for Overhead Sign Structure

Fiber Optic System As-Built Drawings

ADL Concentration Data and Sample Locations Maps



● PROJECT LOCATION



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

Route LA 5, 10, 91, 110, 134 - ADL Investigation

Los Angeles County,
California

VICINITY MAP

GEOCON Proj. No. S9475-06-23

Task Order No. 23

February 2013

Figure 1

- **WET soluble nickel** was reported for the only sample analyzed at 4.8 mg/l.
- **pH** was reported to range between 3.8 and 11 for the samples analyzed.
- Total lead was reported for four of the 42 equipment blank samples at concentrations ranging from 0.0029 J mg/l to 0.011 mg/l. The equipment blank results are in Table 1.

Eight samples from Location 5 (1191-121-0.0 and 1191-121-0.5), Location 9 (1191-142-0.5), Location 12 (1191-156-0.5 and 1191-160-0.5), Location 19 (1191-193-2.5 and 1191-194-2.5) and Location 30 (1191-247-4.5) were reanalyzed for total lead and WET soluble lead due to poor total lead to WET soluble lead ratio. The results of the reanalysis are in Table 1.

5.3 Data Validation

Geocon and ATL use QA/QC measures to minimize and control errors associated with field and laboratory methods. Field QA/QC measures consist of cleaning sampling equipment between each use with a detergent solution followed by tap and distilled/purified water rinses. Based on the equipment blank sample analytical results, it appears that the decontamination procedures were sufficient to minimize the potential for cross-contamination resulting from inadequate equipment decontamination.

Laboratory QA/QC measures include the use of matrix spikes, duplicates, and method blanks, in addition to calculation of percent recovery and relative percentage difference (RPD). A review of the laboratory QA/QC results indicates satisfactory data reporting, and the data are of sufficient quality for the purposes of this report.

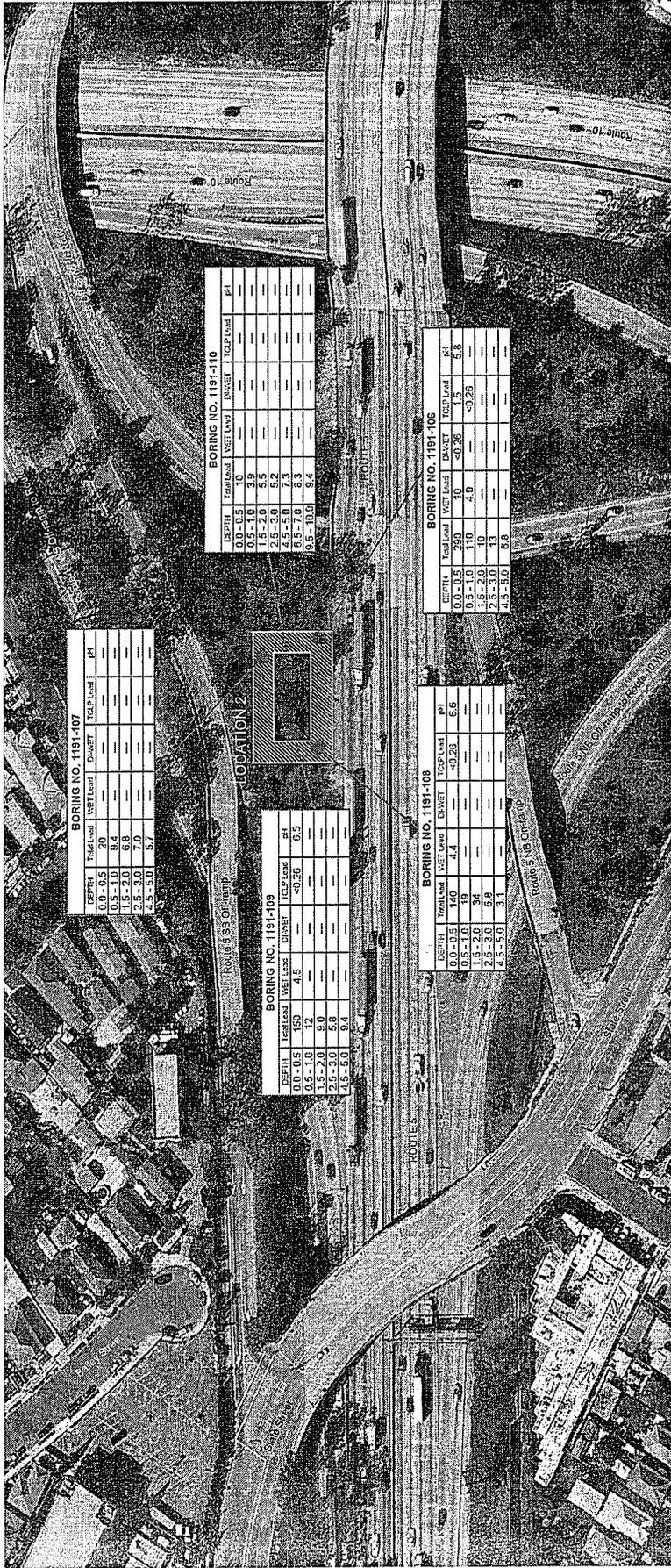
6. DATA EVALUATION

6.1 Lead

The lead data were treated as 31 separate sample populations based on geographic location for statistical evaluation, which consisted of the following groups of soil samples:

Data Population	Soil Samples Collected from Borings	No. of Borings
Location 1	1191-101 through 1191-105	5
Location 2	1191-106 through 1191-110	5
Location 3	1191-111 through 1191-115	5
Location 4	1191-116 through 1191-120	5
Location 5	1191-121 through 1191-125	5
Location 6	1191-126 through 1191-130	5

Data Population	Soil Samples Collected from Borings	No. of Borings
Location 7	1191-131 through 1191-135	5
Location 8	1191-136 through 1191-140	5
Location 9	1191-141 through 1191-145	5
Location 10	1191-146 through 1191-150	5
Location 11	1191-151 through 1191-155	5
Location 12	1191-156 through 1191-160	5
Location 13	1191-161 through 1191-165	5
Location 14	1191-166 through 1191-170	5
Location 15	1191-171 through 1191-175	5
Location 16	1191-176 through 1191-180	5
Location 17	1191-181 through 1191-185	5
Location 18	1191-186 through 1191-190	5
Location 19	1191-191 through 1191-195	5
Location 20	1191-196 through 1191-200	5
Location 21	1191-201 through 1191-205	5
Location 22	1191-206 through 1191-210	5
Location 23	1191-211 through 1191-215	5
Location 24	1191-216 through 1191-220	5
Location 25	1191-221 through 1191-225	5
Location 26	1191-226 through 1191-230	5
Location 27	1191-231 through 1191-235	5
Location 28	1191-236 through 1191-240	5
Location 29	1191-241 through 1191-245	5
Location 30	1191-246 through 1191-250	5
Location 31	1191-251 through 1191-255	5



BORING NO. 1191-107

DEPTH	TOTAL LEAD	WET LEAD	DI-WET LEAD	TCLP LEAD	PH
0.0 - 0.5	9.4	---	---	---	---
0.5 - 1.0	9.4	---	---	---	---
1.5 - 2.0	6.8	---	---	---	---
2.5 - 3.0	7.0	---	---	---	---
4.5 - 5.0	5.7	---	---	---	---

BORING NO. 1191-109

DEPTH	TOTAL LEAD	WET LEAD	DI-WET LEAD	TCLP LEAD	PH
0.0 - 0.5	15.0	4.5	---	<0.25	6.5
0.5 - 1.0	12	---	---	---	---
1.5 - 2.0	9.0	---	---	---	---
2.5 - 3.0	5.8	---	---	---	---
4.5 - 5.0	9.4	---	---	---	---

BORING NO. 1191-110

DEPTH	TOTAL LEAD	WET LEAD	DI-WET LEAD	TCLP LEAD	PH
0.0 - 0.5	10	3.9	---	---	---
0.5 - 1.0	3.9	---	---	---	---
1.5 - 2.0	5.5	---	---	---	---
2.5 - 3.0	5.2	---	---	---	---
4.5 - 5.0	7.3	---	---	---	---
9.5 - 10.0	9.2	---	---	---	---

BORING NO. 1191-108

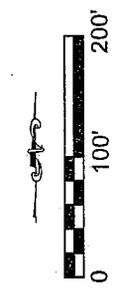
DEPTH	TOTAL LEAD	WET LEAD	DI-WET LEAD	TCLP LEAD	PH
0.0 - 0.5	7.0	4.4	---	<0.25	6.6
0.5 - 1.0	7.0	---	---	---	---
1.5 - 2.0	3.4	---	---	---	---
2.5 - 3.0	5.8	---	---	---	---
4.5 - 5.0	3.1	---	---	---	---

BORING NO. 1191-106

DEPTH	TOTAL LEAD	WET LEAD	DI-WET LEAD	TCLP LEAD	PH
0.0 - 0.5	29.0	10	<0.25	1.5	5.8
0.5 - 1.0	11.0	4.0	---	<0.25	---
1.5 - 2.0	10	---	---	---	---
4.5 - 5.0	6.8	---	---	---	---

LEGEND

- - Approximate boring location
- TOTAL LEAD - Total Lead results in mg/kg
- WET LEAD - WET Lead results in mg/l
- DI-WET - DI-WET Lead results in mg/l
- TCLP LEAD - TCLP Lead results in mg/l
- DEPTH - Depth in feet
- <0.5 - Not detected at or above laboratory detection limits specified
- Estimated Value: Results qualified as an estimated value due to analytical bias in precision of accuracy



GEOCON
CONSULTANTS, INC.

ENVIRONMENTAL GEOTECHNICAL MATERIALS
3000 SAN FERNANDO BLVD., SUITE 100, BURBANK, CA 91504
PHONE (818) 841-8388 - FAX (818) 841-1704

SITE PLAN

CALTRANS
ROUTE LA 5, 10, 91, 110, 134 - ADL INVESTIGATION
POSTMILE: VARIOUS
LOS ANGELES, CALIFORNIA

CHL

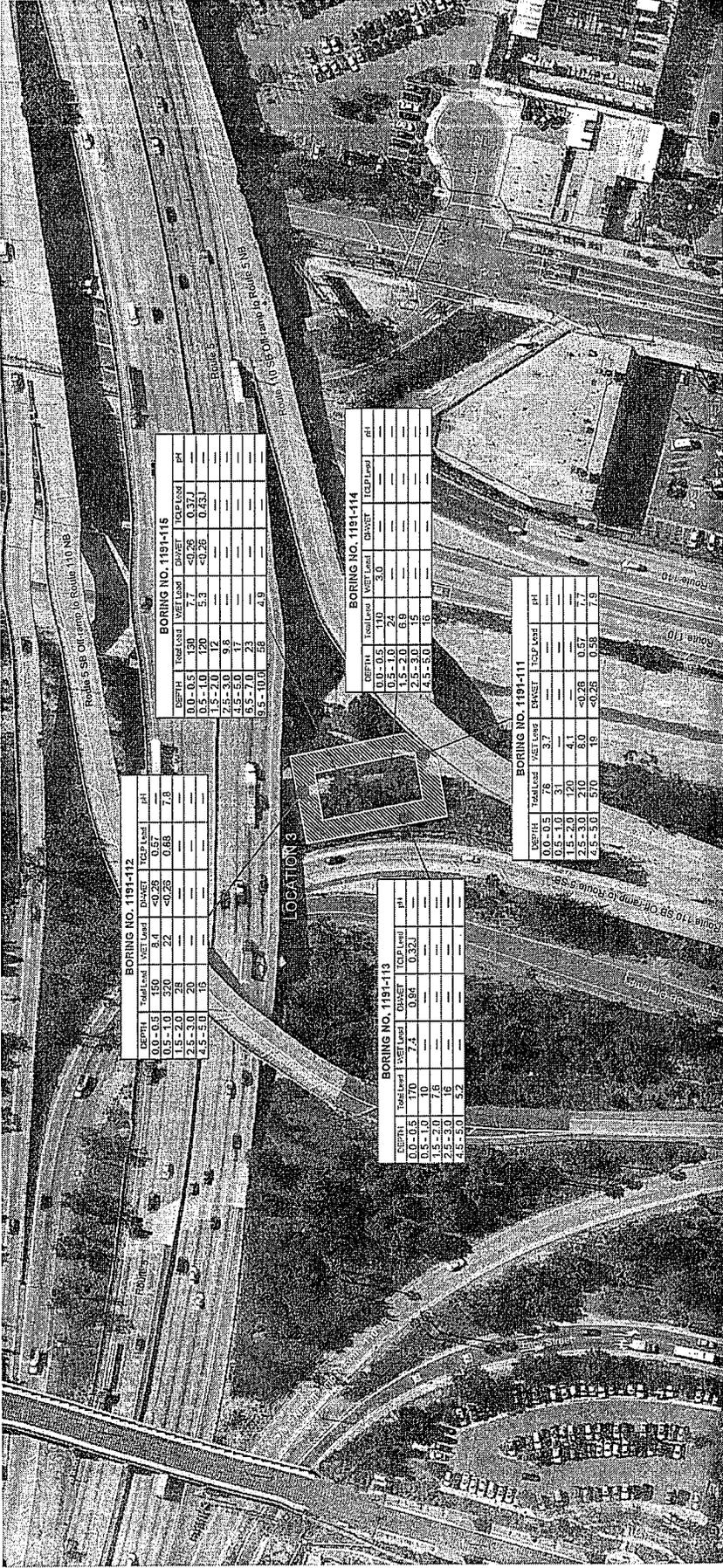
FEBRUARY 2013

PROJECT NO. S9475-06-23

8000

FIG. 3

REFERENCE AREA: Caltrans, Layout Plan L-2
BASE MAP: Google Earth Maps, 2010



BORING NO. 1191-112

DEPTH	TOTAL LEAD	DI-WET LEAD	DI-TCLP LEAD	DI-WET LEAD	DI-TCLP LEAD	PH
0.0 - 0.5	150	4.0	0.57	---	---	---
0.5 - 1.0	320	22	0.85	7.8	---	---
1.5 - 2.0	28	---	---	---	---	---
2.5 - 3.0	20	---	---	---	---	---
4.5 - 5.0	15	---	---	---	---	---

BORING NO. 1191-113

DEPTH	TOTAL LEAD	DI-WET LEAD	DI-TCLP LEAD	DI-WET LEAD	DI-TCLP LEAD	PH
0.0 - 0.5	170	7.4	0.94	0.32	---	---
0.5 - 1.0	10	---	---	---	---	---
1.5 - 2.0	6	---	---	---	---	---
2.5 - 3.0	4	---	---	---	---	---
4.5 - 5.0	3	---	---	---	---	---

BORING NO. 1191-115

DEPTH	TOTAL LEAD	DI-WET LEAD	DI-TCLP LEAD	DI-WET LEAD	DI-TCLP LEAD	PH
0.0 - 0.5	130	7.7	0.37	0.37	---	---
0.5 - 1.0	120	5.3	0.26	0.43	---	---
1.5 - 2.0	12	---	---	---	---	---
2.5 - 3.0	7	---	---	---	---	---
4.5 - 5.0	3	---	---	---	---	---
5.5 - 7.0	23	---	---	---	---	---
9.5 - 10.0	56	4.9	---	---	---	---

BORING NO. 1191-114

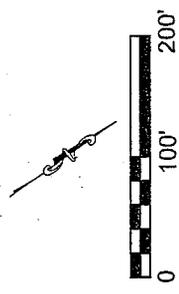
DEPTH	TOTAL LEAD	DI-WET LEAD	DI-TCLP LEAD	DI-WET LEAD	DI-TCLP LEAD	PH
0.0 - 0.5	24	---	---	---	---	---
0.5 - 1.0	24	---	---	---	---	---
1.5 - 2.0	6.9	---	---	---	---	---
2.5 - 3.0	15	---	---	---	---	---
4.5 - 5.0	15	---	---	---	---	---

BORING NO. 1191-111

DEPTH	TOTAL LEAD	DI-WET LEAD	DI-TCLP LEAD	DI-WET LEAD	DI-TCLP LEAD	PH
0.0 - 0.5	37	---	---	---	---	---
0.5 - 1.0	20	---	---	---	---	---
1.5 - 2.0	4.1	---	---	---	---	---
2.5 - 3.0	8.0	0.26	0.57	1.7	---	---
4.5 - 5.0	16	0.26	0.58	7.9	---	---

LEGEND

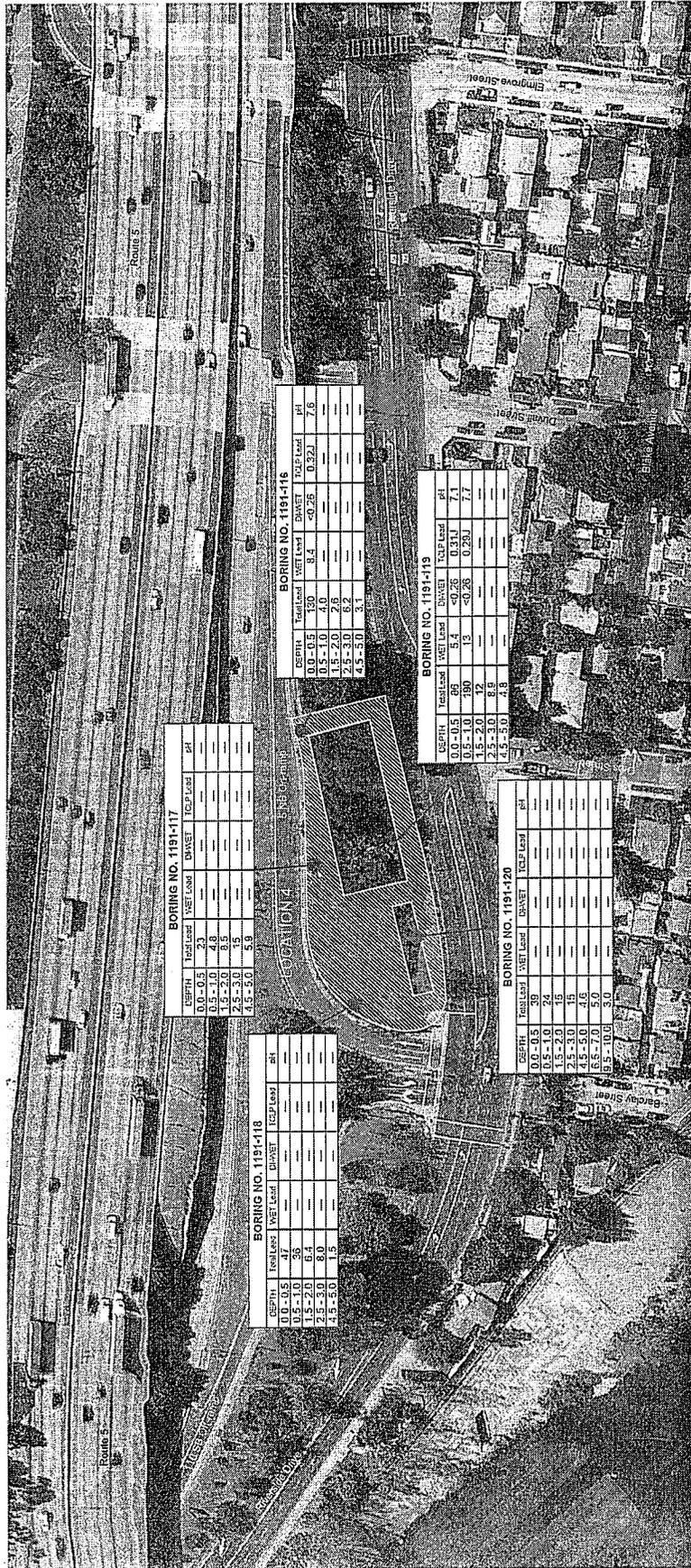
- - Approximate boring location
- TOTAL LEAD - Total Lead results in mg/kg
- DI-WET LEAD - DI-WET Lead results in mg/l
- DI-TCLP LEAD - DI-TCLP Lead results in mg/l
- DEPTH - Depth in feet
- <0.5 - Not detected at or above laboratory detection limits specified
- J - Estimated Value: Results qualified as an estimated value due to analytical bias in precision of accuracy



REFERENCE AREA: Caltrans, Layout Plan L-3
 BASE MAP: Google Earth Maps, 2010

GEOCON CONSULTANTS, INC.
 ENVIRONMENTAL GEOTECHNICAL MATERIALS
 5300 N. STATE BLVD. SUITE 200, CA 91504
 PHONE (619) 641-6388 - FAX (619) 641-1704

SITE PLAN
 CALTRANS
 ROUTE LA 5, 10, 91, 110, 134 - ADL INVESTIGATION
 POST MILE: VARIOUS
 LOS ANGELES, CALIFORNIA
 FEBRUARY 2013 PROJECT NO. S9475-06-23 FIG. 4



BORING NO. 1191-117

DEPTH	WET LEAD	DI-WET	TCLP LEAD	pH
0.0 - 0.5	23	---	---	---
0.5 - 1.0	4.8	---	---	---
1.5 - 2.0	6.5	---	---	---
2.5 - 3.0	15	---	---	---
4.5 - 5.0	5.9	---	---	---

BORING NO. 1191-118

DEPTH	WET LEAD	DI-WET	TCLP LEAD	pH
0.0 - 0.5	47	---	---	---
0.5 - 1.0	35	---	---	---
1.5 - 2.0	6.4	---	---	---
2.5 - 3.0	8.0	---	---	---
4.5 - 5.0	1.3	---	---	---

BORING NO. 1191-119

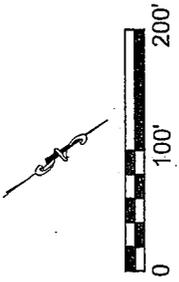
DEPTH	WET LEAD	DI-WET	TCLP LEAD	pH	
0.0 - 0.5	65	5.4	<0.26	0.31	7.1
0.5 - 1.0	190	13	<0.26	0.28	7.7
1.5 - 2.0	17	---	---	---	---
2.5 - 3.0	4.9	---	---	---	---
4.5 - 5.0	4.3	---	---	---	---

BORING NO. 1191-120

DEPTH	WET LEAD	DI-WET	TCLP LEAD	pH
0.0 - 0.5	29	---	---	---
0.5 - 1.0	16	---	---	---
1.5 - 2.0	15	---	---	---
2.5 - 3.0	15	---	---	---
4.5 - 5.0	4.6	---	---	---
6.5 - 7.0	5.0	---	---	---
8.5 - 10.0	3.0	---	---	---

LEGEND

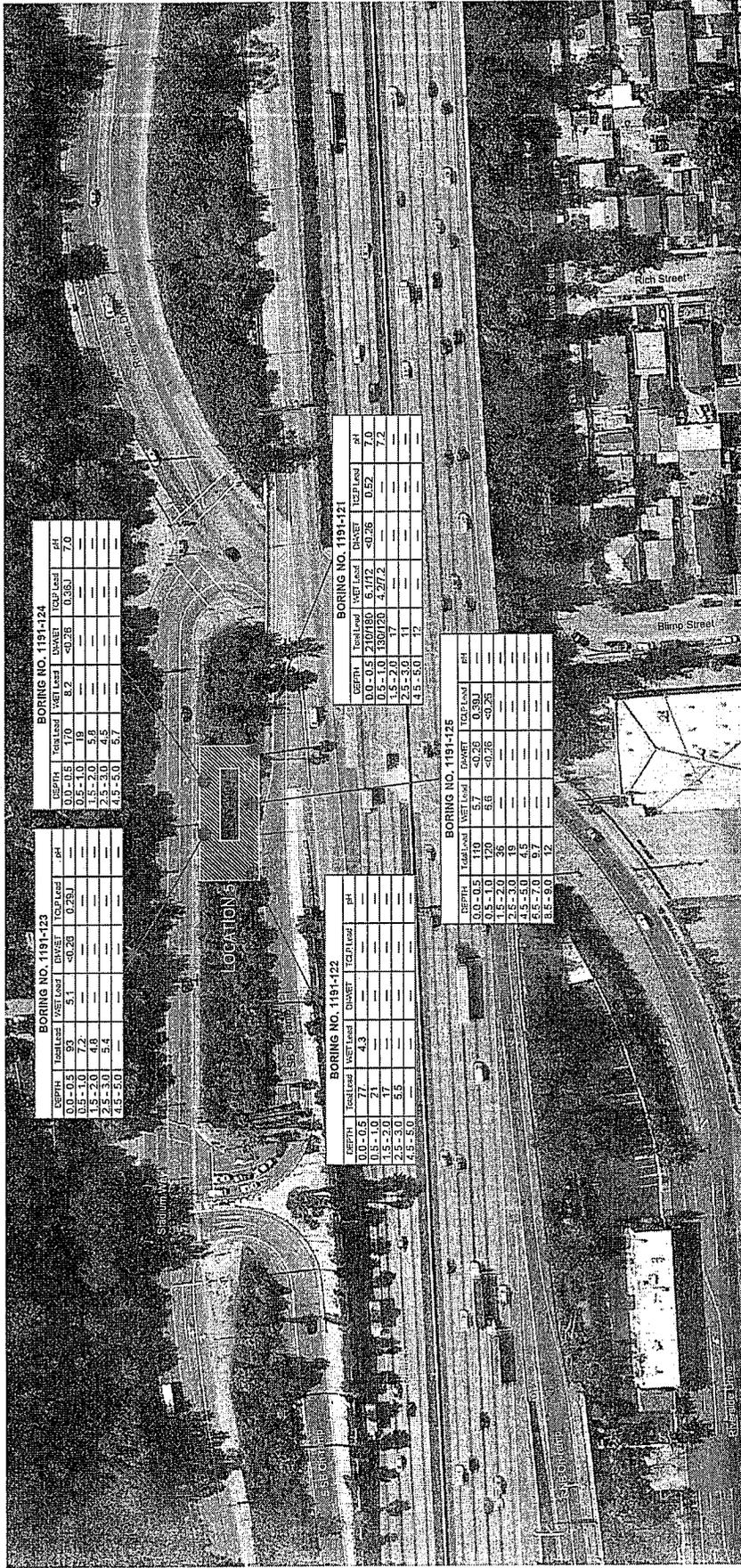
- Approximate boring location
- TOTAL LEAD - Total Lead results in mg/kg
- WET LEAD - WET Lead results in mg/l
- DI-WET - DI-WET Lead results in mg/l
- TCLP LEAD - TCLP Lead results in mg/l
- DEPTH - Depth in feet
- <0.5 - Not detected at or above laboratory detection limits specified
- J - Estimated Value: Results qualified as an estimated value due to analytical bias in precision of accuracy



REFERENCE AREA: Caltrans, Layout Plan L-4
 BASE MAP: Google Earth Maps, 2010

SITE PLAN
 CALTRANS
 ROUTE LA 5, 10, 91, 110, 194 - ADJ. INVESTIGATION
 POST MILE: VARIOUS
 LOS ANGELES, CALIFORNIA
 FEBRUARY 2013 PROJECT NO. S9475-06-23 FIG. 5

GEOCON
 CONSULTANTS, INC.
 ENVIRONMENTAL GEOTECHNICAL MATERIALS
 5000 BUREAU BLVD., BURBANK, CA 91504
 PHONE (818) 841-8388 - FAX (818) 841-1704
 CHL 8000



BORING NO. 1191-123

DEPTH	WET LEAD	DI-WET LEAD	TCLP LEAD	PH
0.0-0.5	91	5.1	<0.26	0.75/3
0.5-1.0	7.2	---	---	---
1.5-2.0	4.8	---	---	---
2.5-3.0	5.4	---	---	---
4.5-5.0	---	---	---	---

BORING NO. 1191-124

DEPTH	WET LEAD	DI-WET LEAD	TCLP LEAD	PH
0.0-0.5	170	8.2	<0.26	0.38/3
0.5-1.0	19	---	---	---
1.5-2.0	5.8	---	---	---
2.5-3.0	4.5	---	---	---
4.5-5.0	5.7	---	---	---

BORING NO. 1191-121

DEPTH	WET LEAD	DI-WET LEAD	TCLP LEAD	PH
0.0-0.5	100/20	4.2/1.3	<0.26	0.52
0.5-1.0	100/20	4.2/1.3	---	---
1.5-2.0	17	---	---	---
2.5-3.0	11	---	---	---
4.5-5.0	17	---	---	---

BORING NO. 1191-122

DEPTH	WET LEAD	DI-WET LEAD	TCLP LEAD	PH
0.0-0.5	77	4.3	---	---
0.5-1.0	71	---	---	---
1.5-2.0	17	---	---	---
2.5-3.0	3.5	---	---	---
4.5-5.0	---	---	---	---

BORING NO. 1191-125

DEPTH	WET LEAD	DI-WET LEAD	TCLP LEAD	PH
0.0-0.5	110	5.7	<0.26	0.30/3
0.5-1.0	120	6.6	<0.26	---
1.5-2.0	36	---	---	---
2.5-3.0	4.5	---	---	---
4.5-5.0	6.7	---	---	---
8.5-9.0	12	---	---	---

LEGEND

- Approximate boring location
- Total Lead results in mg/kg
- WET Lead results in mg/l
- DI-WET Lead results in mg/l
- TCLP Lead results in mg/l
- Depth in feet
- <0.5 - Not detected at or above laboratory detection limits specified
- Estimated Value: Results qualified as an estimated value due to analytical bias in precision of accuracy

GEOCON
CONSULTANTS, INC.

ENVIRONMENTAL GEOTECHNICAL MATERIALS
3800 N. SAN FERNANDO BLVD., SUITE 104 - BURBANK, CA 91504
PHONE (610) 641-8388 - FAX (610) 641-1704

CHL

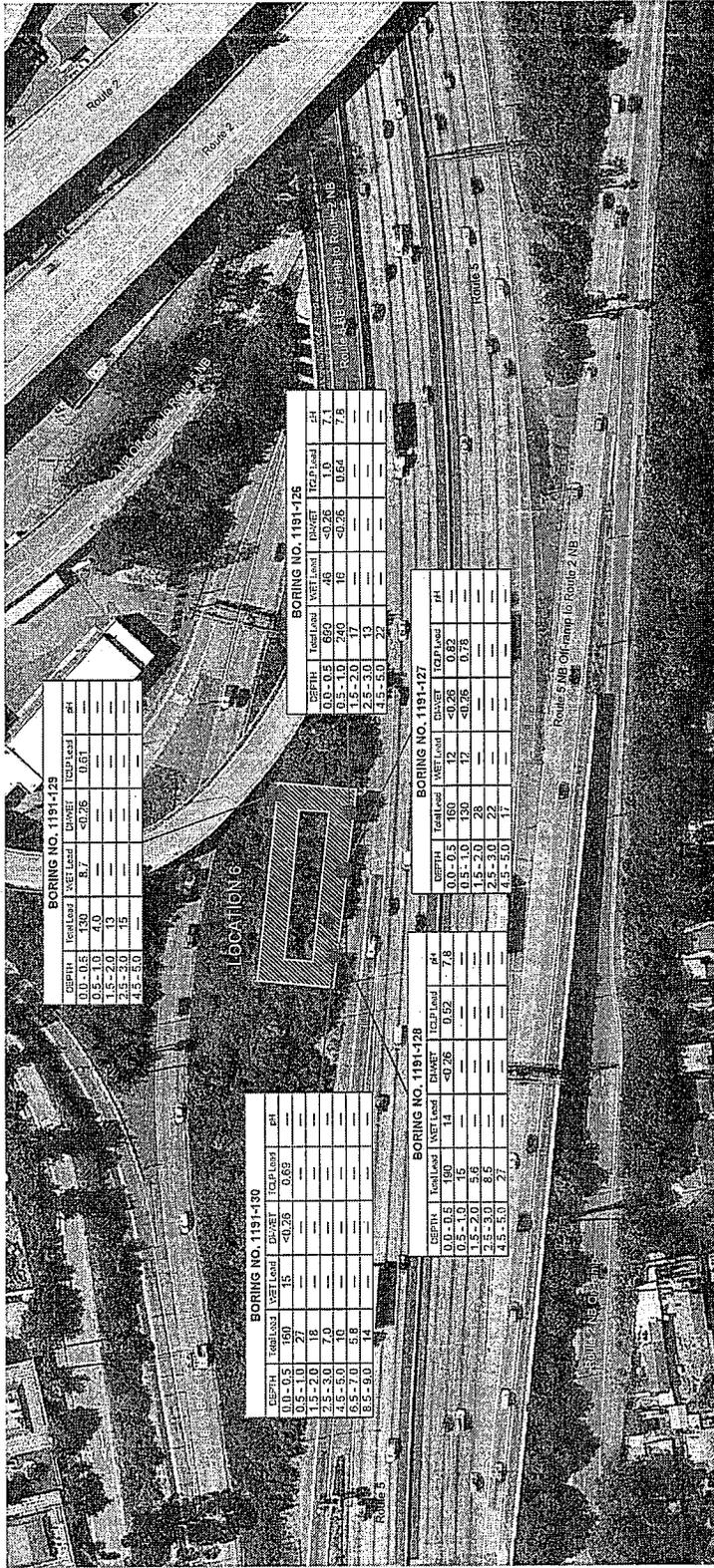
SITE PLAN

CALTRANS
ROUTE LA 5, 10, 91, 110, 134 - ADL INVESTIGATION
POST MILE: VARIOUS
LOS ANGELES, CALIFORNIA

FEBRUARY 2013 PROJECT NO. S9475-05-23 FIG. 6

REFERENCE AREA: Caltrans, Layout Plan L-5
BASE MAP: Google Earth Maps, 2010





BORING NO. 1191-123

DEPTH	Soil Layer	WET Lead	DI-WET	TCLP Lead	Depth	Lead
0.0 - 0.5	130	8.7	<0.26	0.61	---	---
0.5 - 1.0	40	---	---	---	---	---
1.5 - 2.0	13	---	---	---	---	---
2.5 - 3.0	13	---	---	---	---	---
3.5 - 4.0	13	---	---	---	---	---

BORING NO. 1191-130

DEPTH	Soil Layer	WET Lead	DI-WET	TCLP Lead	Depth	Lead
0.0 - 0.5	159	15	<0.26	0.63	---	---
0.5 - 1.0	78	---	---	---	---	---
1.5 - 3.0	70	---	---	---	---	---
3.5 - 5.0	10	---	---	---	---	---
5.5 - 7.0	5.8	---	---	---	---	---
8.5 - 9.0	14	---	---	---	---	---

BORING NO. 1191-126

DEPTH	Soil Layer	WET Lead	DI-WET	TCLP Lead	Depth	Lead
0.0 - 0.5	660	18	<0.26	1.0	7.1	---
0.5 - 1.0	240	---	---	0.64	7.8	---
1.5 - 2.0	17	---	---	---	---	---
2.5 - 3.0	13	---	---	---	---	---
3.5 - 5.0	29	---	---	---	---	---

BORING NO. 1191-127

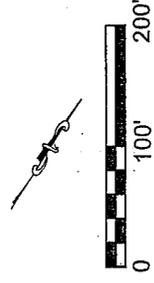
DEPTH	Soil Layer	WET Lead	DI-WET	TCLP Lead	Depth	Lead
0.0 - 0.5	180	12	<0.26	0.82	---	---
0.5 - 1.0	130	17	<0.26	0.78	---	---
1.5 - 2.0	28	---	---	---	---	---
2.5 - 3.0	22	---	---	---	---	---
3.5 - 5.0	17	---	---	---	---	---

BORING NO. 1191-128

DEPTH	Soil Layer	WET Lead	DI-WET	TCLP Lead	Depth	Lead
0.0 - 0.5	160	14	<0.26	0.52	7.8	---
0.5 - 1.0	15	---	---	---	---	---
1.5 - 2.0	85	---	---	---	---	---
3.5 - 5.0	27	---	---	---	---	---

LEGEND

- - Approximate boring location
- TOTAL Lead - Total Lead results in mg/kg
- WET Lead - WET Lead results in mg/l
- DI-WET - DI-WET Lead results in mg/l
- TCLP Lead - TCLP Lead results in mg/l
- DEPTH - Depth in feet
- <0.5 - Not detected at or above laboratory detection limits specified
- J - Estimated Value: Results qualified as an estimated value due to analytical bias in precision of accuracy



REFERENCE AREA: Caltrans, Layout Plan L-6
 BASE MAP: Google Earth Maps, 2010

SITE PLAN

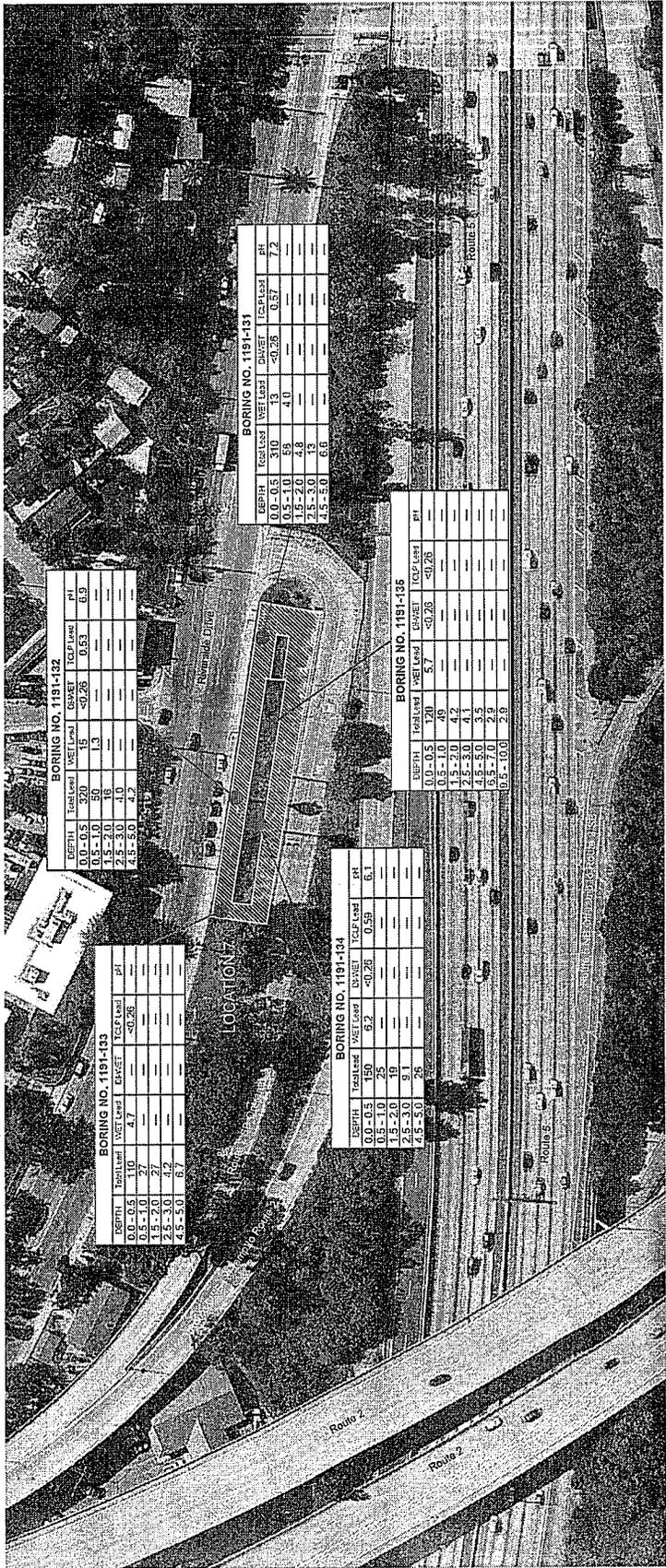
CALTRANS
 ROUTE LA 5, 10, 91, 110, 134 - ADL INVESTIGATION
 POST MILE: VARIOUS
 LOS ANGELES, CALIFORNIA

FEBRUARY 2013 PROJECT NO. S9475-06-23 FIG. 7

GEOCON
 CONSULTANTS, INC.

ENVIRONMENTAL GEOTECHNICAL MATERIALS
 3000 S. SHAW BLVD., SUITE 200, BURBANK, CA 91504
 PHONE (818) 841-6388 - FAX (818) 841-1704

CHL 8000



BORING NO. 1191-132

DEPTH	TOTAL LEAD	WET LEAD	DI-WET	TCLP LEAD	DEPTH	TOTAL LEAD	WET LEAD	DI-WET	TCLP LEAD
0.0 - 0.5	1.0	4.7	---	<0.26	3.0 - 3.5	---	---	---	---
0.5 - 1.0	---	---	---	---	3.5 - 4.0	---	---	---	---
1.0 - 1.5	---	---	---	---	4.0 - 4.5	---	---	---	---
1.5 - 2.0	---	---	---	---	4.5 - 5.0	---	---	---	---
2.0 - 2.5	---	---	---	---					
2.5 - 3.0	---	---	---	---					
3.0 - 3.5	---	---	---	---					
3.5 - 4.0	---	---	---	---					
4.0 - 4.5	---	---	---	---					
4.5 - 5.0	---	---	---	---					
5.0 - 5.5	---	---	---	---					

BORING NO. 1191-133

DEPTH	TOTAL LEAD	WET LEAD	DI-WET	TCLP LEAD	DEPTH	TOTAL LEAD	WET LEAD	DI-WET	TCLP LEAD
0.0 - 0.5	1.0	4.7	---	<0.26	3.0 - 3.5	---	---	---	---
0.5 - 1.0	---	---	---	---	3.5 - 4.0	---	---	---	---
1.0 - 1.5	---	---	---	---	4.0 - 4.5	---	---	---	---
1.5 - 2.0	---	---	---	---	4.5 - 5.0	---	---	---	---
2.0 - 2.5	---	---	---	---					
2.5 - 3.0	---	---	---	---					
3.0 - 3.5	---	---	---	---					
3.5 - 4.0	---	---	---	---					
4.0 - 4.5	---	---	---	---					
4.5 - 5.0	---	---	---	---					
5.0 - 5.5	---	---	---	---					

BORING NO. 1191-134

DEPTH	TOTAL LEAD	WET LEAD	DI-WET	TCLP LEAD	DEPTH	TOTAL LEAD	WET LEAD	DI-WET	TCLP LEAD
0.0 - 0.5	1.0	4.7	---	<0.26	3.0 - 3.5	---	---	---	---
0.5 - 1.0	---	---	---	---	3.5 - 4.0	---	---	---	---
1.0 - 1.5	---	---	---	---	4.0 - 4.5	---	---	---	---
1.5 - 2.0	---	---	---	---	4.5 - 5.0	---	---	---	---
2.0 - 2.5	---	---	---	---					
2.5 - 3.0	---	---	---	---					
3.0 - 3.5	---	---	---	---					
3.5 - 4.0	---	---	---	---					
4.0 - 4.5	---	---	---	---					
4.5 - 5.0	---	---	---	---					
5.0 - 5.5	---	---	---	---					

BORING NO. 1191-131

DEPTH	TOTAL LEAD	WET LEAD	DI-WET	TCLP LEAD	DEPTH	TOTAL LEAD	WET LEAD	DI-WET	TCLP LEAD
0.0 - 0.5	1.0	4.7	---	<0.26	3.0 - 3.5	---	---	---	---
0.5 - 1.0	---	---	---	---	3.5 - 4.0	---	---	---	---
1.0 - 1.5	---	---	---	---	4.0 - 4.5	---	---	---	---
1.5 - 2.0	---	---	---	---	4.5 - 5.0	---	---	---	---
2.0 - 2.5	---	---	---	---					
2.5 - 3.0	---	---	---	---					
3.0 - 3.5	---	---	---	---					
3.5 - 4.0	---	---	---	---					
4.0 - 4.5	---	---	---	---					
4.5 - 5.0	---	---	---	---					
5.0 - 5.5	---	---	---	---					

BORING NO. 1191-135

DEPTH	TOTAL LEAD	WET LEAD	DI-WET	TCLP LEAD	DEPTH	TOTAL LEAD	WET LEAD	DI-WET	TCLP LEAD
0.0 - 0.5	1.0	4.7	---	<0.26	3.0 - 3.5	---	---	---	---
0.5 - 1.0	---	---	---	---	3.5 - 4.0	---	---	---	---
1.0 - 1.5	---	---	---	---	4.0 - 4.5	---	---	---	---
1.5 - 2.0	---	---	---	---	4.5 - 5.0	---	---	---	---
2.0 - 2.5	---	---	---	---					
2.5 - 3.0	---	---	---	---					
3.0 - 3.5	---	---	---	---					
3.5 - 4.0	---	---	---	---					
4.0 - 4.5	---	---	---	---					
4.5 - 5.0	---	---	---	---					
5.0 - 5.5	---	---	---	---					

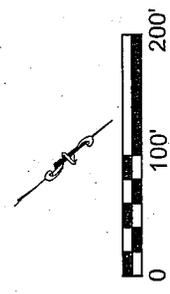
LEGEND

- - Approximate boring location
- TOTAL LEAD - Total Lead results in mg/kg
- WET LEAD - WET Lead results in mg/l
- DI-WET - DI-WET Lead results in mg/l
- TCLP LEAD - TCLP Lead results in mg/l
- DEPTH - Depth in feet
- <0.5 - Not detected at or above laboratory detection limits specified
- Estimated Value: Results qualified as an estimated value due to analytical bias in precision of accuracy

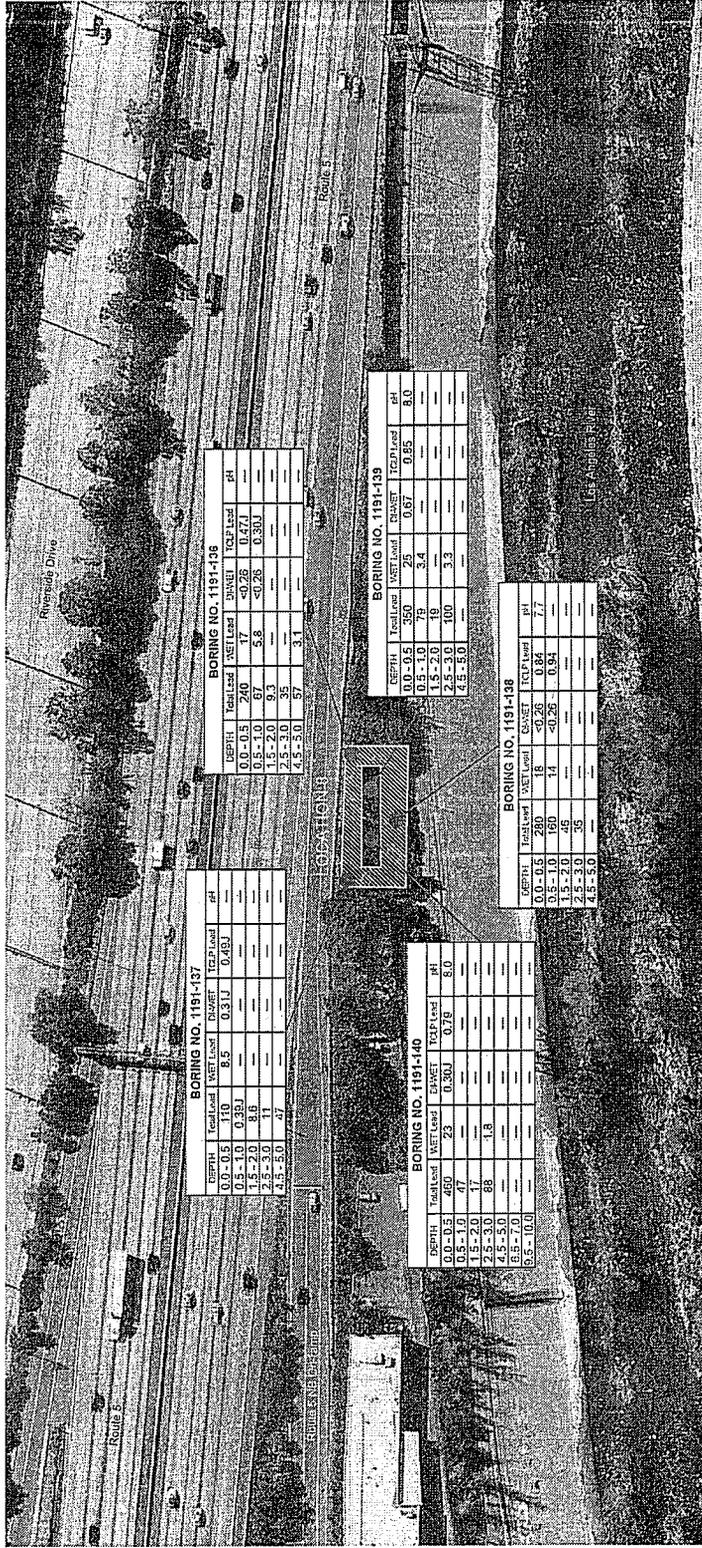
REFERENCE AREA: Caltrans, Layout Plan L-7
 BASE MAP: Google Earth Maps, 2010

GEOCON
 CONSULTANTS, INC.
 ENVIRONMENTAL GEOTECHNICAL MATERIALS
 1000 BLVD. STE. 1000, BURNING WOOD, CA 91504
 PHONE (916) 941-8388 FAX (916) 941-1704

SITE PLAN
 CALTRANS
 ROUTE LA 5, 10, 91, 110, 134 - ADL INVESTIGATION
 POST MILE: VARIOUS
 LOS ANGELES, CALIFORNIA
 FEBRUARY 2013 PROJECT NO. S9475-05-23 FIG. 8



CHL 8000



BORING NO. 1191-137

DEPTH	TOTAL LEAD	DI-WET	TCLP LEAD	pH
0.0 - 0.5	0.10	8.5	0.31J	0.48J
0.5 - 1.0	0.8J	---	---	---
1.0 - 1.5	0.8J	---	---	---
1.5 - 2.0	1.1	---	---	---
2.0 - 2.5	---	---	---	---
2.5 - 3.0	---	---	---	---
3.0 - 3.5	---	---	---	---
3.5 - 4.0	---	---	---	---
4.0 - 4.5	---	---	---	---
4.5 - 5.0	---	---	---	---

BORING NO. 1191-138

DEPTH	TOTAL LEAD	DI-WET	TCLP LEAD	pH
0.0 - 0.5	2.40	17	<0.26	0.47J
0.5 - 1.0	67	5.8	<0.26	0.30J
1.0 - 1.5	---	---	---	---
1.5 - 2.0	---	---	---	---
2.0 - 2.5	---	---	---	---
2.5 - 3.0	---	---	---	---
3.0 - 3.5	---	---	---	---
3.5 - 4.0	---	---	---	---
4.0 - 4.5	---	---	---	---
4.5 - 5.0	---	---	---	---

BORING NO. 1191-140

DEPTH	TOTAL LEAD	DI-WET	TCLP LEAD	pH
0.0 - 0.5	480	23	0.30J	0.78
0.5 - 1.0	---	---	---	---
1.0 - 1.5	---	---	---	---
1.5 - 2.0	---	---	---	---
2.0 - 2.5	---	---	---	---
2.5 - 3.0	---	---	---	---
3.0 - 3.5	---	---	---	---
3.5 - 4.0	---	---	---	---
4.0 - 4.5	---	---	---	---
4.5 - 5.0	---	---	---	---

BORING NO. 1191-139

DEPTH	TOTAL LEAD	DI-WET	TCLP LEAD	pH
0.0 - 0.5	250	25	0.67	0.85
0.5 - 1.0	79	3.4	---	---
1.0 - 1.5	---	---	---	---
1.5 - 2.0	---	---	---	---
2.0 - 2.5	---	---	---	---
2.5 - 3.0	---	---	---	---
3.0 - 3.5	---	---	---	---
3.5 - 4.0	---	---	---	---
4.0 - 4.5	---	---	---	---
4.5 - 5.0	---	---	---	---

BORING NO. 1191-138

DEPTH	TOTAL LEAD	DI-WET	TCLP LEAD	pH
0.0 - 0.5	230	14	<0.26	0.84
0.5 - 1.0	180	14	<0.26	0.84
1.0 - 1.5	---	---	---	---
1.5 - 2.0	---	---	---	---
2.0 - 2.5	---	---	---	---
2.5 - 3.0	---	---	---	---
3.0 - 3.5	---	---	---	---
3.5 - 4.0	---	---	---	---
4.0 - 4.5	---	---	---	---
4.5 - 5.0	---	---	---	---

LEGEND

- - Approximate boring location
- TOTAL LEAD - Total Lead results in mg/kg
- WET LEAD - WET Lead results in mg/l
- DI-WET - DI-WET Lead results in mg/l
- TCLP LEAD - TCLP Lead results in mg/l
- DEPTH - Depth in feet
- <0.5 - Not detected at or above laboratory detection limits specified
- J - Estimated Value: Results qualified as an estimated value due to analytical bias in precision of accuracy

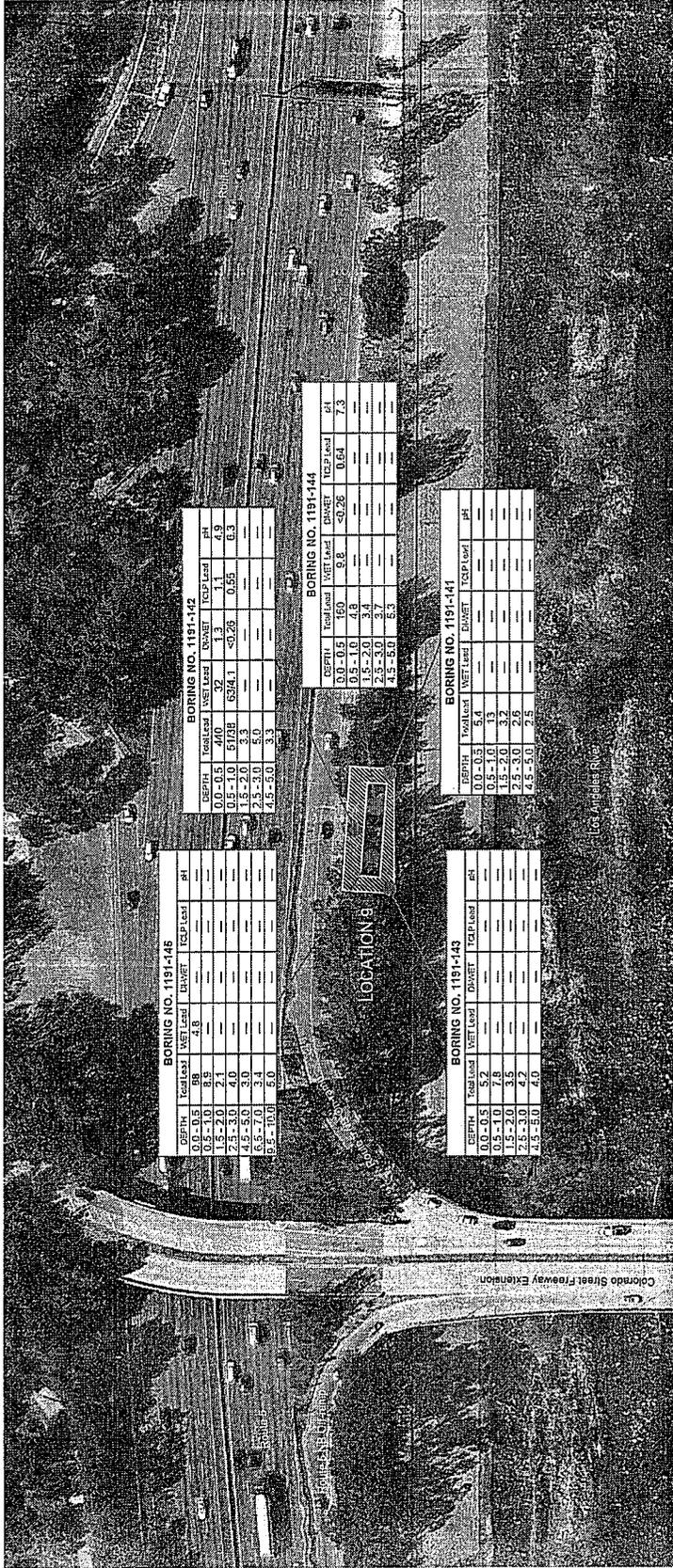
GEOCON CONSULTANTS, INC.
 ENVIRONMENTAL GEOTECHNICAL MATERIALS
 5000 SAN FERNANDO BLVD., SUITE 100, BURBANK, CA 91504
 PHONE (818) 841-8388 - FAX (818) 841-1704

CHL 8000

SITE PLAN
 CALTRANS
 ROUTE LA 5, 10, 91, 110, 134 - ADL INVESTIGATION
 POST MILE: VARIOUS
 LOS ANGELES, CALIFORNIA

FEBRUARY 2013 PROJECT NO. S9475-06-23 FIG. 9

REFERENCE AREA: Caltrans, Layout Plan L-8
 BASE MAP: Google Earth Maps, 2010



BORING NO. 1191-143

DEPTH	TOTAL LEAD	DI-WET	TCLP LEAD	GH
0.0 - 0.5	8.9	---	---	---
0.5 - 1.0	8.9	---	---	---
1.5 - 2.0	2.1	---	---	---
2.5 - 3.0	4.0	---	---	---
4.5 - 5.0	3.0	---	---	---
6.5 - 7.0	3.4	---	---	---
8.5 - 10.0	6.9	---	---	---

BORING NO. 1191-144

DEPTH	TOTAL LEAD	DI-WET	TCLP LEAD	GH
0.0 - 0.5	16.0	9.8	<0.26	0.64
0.5 - 1.0	4.8	---	---	---
1.5 - 2.0	3.4	---	---	---
2.5 - 3.0	2.7	---	---	---
4.5 - 5.0	6.3	---	---	---

BORING NO. 1191-141

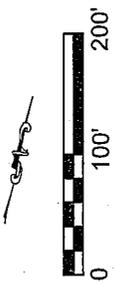
DEPTH	TOTAL LEAD	DI-WET	TCLP LEAD	GH
0.0 - 0.5	5.4	---	---	---
0.5 - 1.0	1.3	---	---	---
1.5 - 2.0	3.2	---	---	---
2.5 - 3.0	2.6	---	---	---
4.5 - 5.0	2.5	---	---	---

BORING NO. 1191-142

DEPTH	TOTAL LEAD	DI-WET	TCLP LEAD	GH
0.0 - 0.5	4.0	3.2	1.1	4.9
0.5 - 1.0	5.12B	6.94.1	<0.26	0.55
1.5 - 2.0	2.3	---	---	---
2.5 - 3.0	3.3	---	---	---
4.5 - 5.0	3.3	---	---	---

LEGEND

- ⊙ - Approximate boring location
- TOTAL LEAD - Total Lead results in mg/kg
- WET LEAD - WET Lead results in mg/l
- DI-WET - DI-WET Lead results in mg/l
- TCLP LEAD - TCLP Lead results in mg/l
- DEPTH - Depth in feet
- <0.5 - Not detected at or above laboratory detection limits specified
- J - Estimated Value: Results qualified as an estimated value due to analytical bias in precision of accuracy



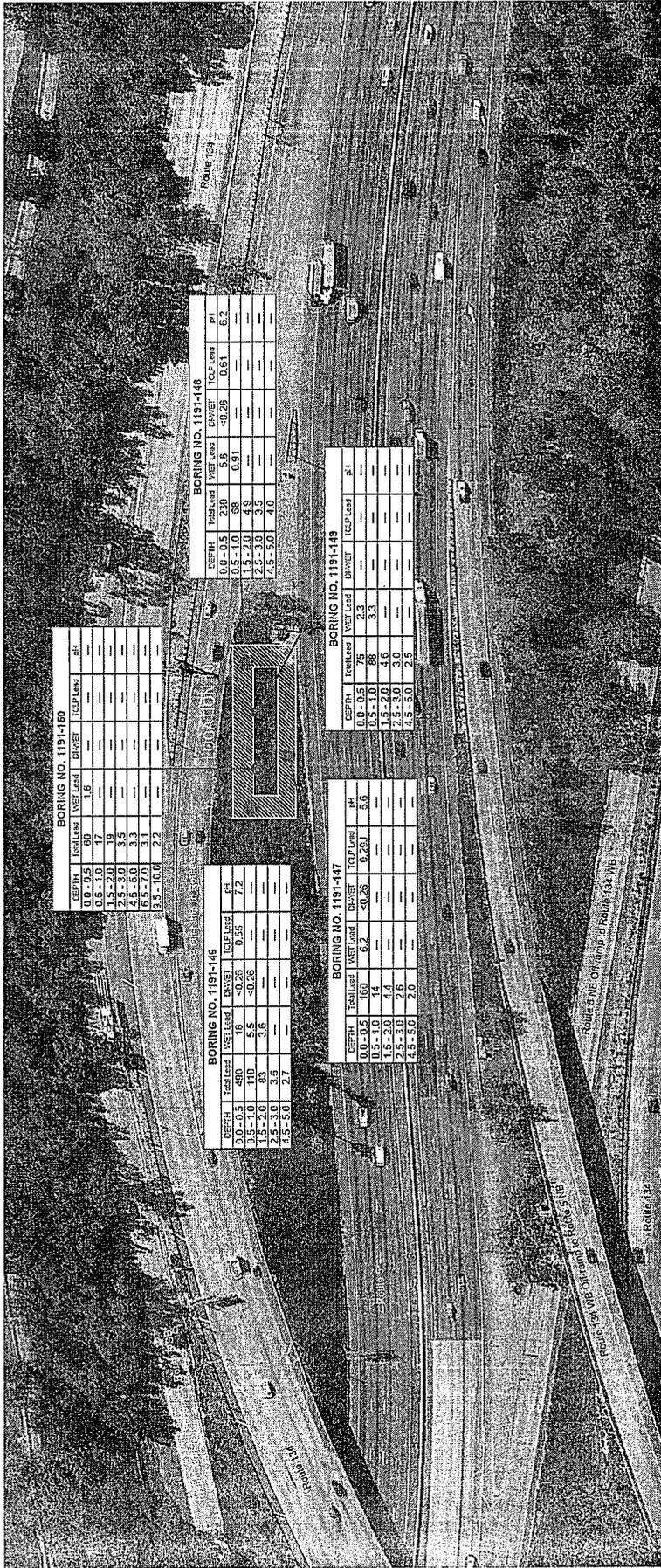
REFERENCE AREA: Caltrans, Layout Plan L-9
 BASE MAP: Google Earth Maps, 2010

GEOCON
 CONSULTANTS, INC.
 ENVIRONMENTAL GEOTECHNICAL MATERIALS
 2511 SAN FERNANDO BLVD., BURBANK, CA 91504
 PHONE (818) 941-8388 • FAX (818) 941-1774

SITE PLAN
 CALTRANS
 ROUTE LA 5, 10, 91, 110, 134 - ADL INVESTIGATION
 POST MILE: VARIOUS
 LOS ANGELES, CALIFORNIA

FEBRUARY 2013 PROJECT NO. S8475-06-23 FIG. 10

CHL 8000



BORING NO. 1191-140

DEPTH	TEST/LEAD	WET/LEAD	DW/LEAD	TCLP/LEAD	pH
0.0 - 0.5	59	1.6	---	---	---
0.5 - 1.0	17	---	---	---	---
1.0 - 1.5	---	---	---	---	---
1.5 - 2.0	3.5	---	---	---	---
2.0 - 2.5	---	---	---	---	---
2.5 - 3.0	3.3	---	---	---	---
3.0 - 3.5	---	---	---	---	---
3.5 - 4.0	3.1	---	---	---	---
4.0 - 4.5	2.2	---	---	---	---

BORING NO. 1191-144

DEPTH	TEST/LEAD	WET/LEAD	DW/LEAD	TCLP/LEAD	pH
0.0 - 0.5	480	18	<0.25	0.55	7.2
0.5 - 1.0	100	5.5	<0.25	---	---
1.0 - 1.5	3.5	---	---	---	---
1.5 - 2.0	3.5	---	---	---	---
2.0 - 2.5	2.7	---	---	---	---

BORING NO. 1191-146

DEPTH	TEST/LEAD	WET/LEAD	DW/LEAD	TCLP/LEAD	pH
0.0 - 0.5	230	5.8	<0.25	0.61	6.2
0.5 - 1.0	98	0.91	---	---	---
1.0 - 1.5	---	---	---	---	---
1.5 - 2.0	3.5	---	---	---	---
2.0 - 2.5	4.0	---	---	---	---

BORING NO. 1191-147

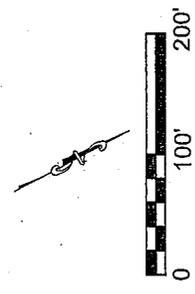
DEPTH	TEST/LEAD	WET/LEAD	DW/LEAD	TCLP/LEAD	pH
0.0 - 0.5	160	6.2	<0.25	5.6	---
0.5 - 1.0	14	---	---	---	---
1.0 - 1.5	9.6	---	---	---	---
1.5 - 2.0	2.0	---	---	---	---

BORING NO. 1191-149

DEPTH	TEST/LEAD	WET/LEAD	DW/LEAD	TCLP/LEAD	pH
0.0 - 0.5	5	2.3	---	---	---
0.5 - 1.0	6.6	---	---	---	---
1.0 - 1.5	4.6	---	---	---	---
1.5 - 2.0	3.0	---	---	---	---
2.0 - 2.5	2.5	---	---	---	---

LEGEND

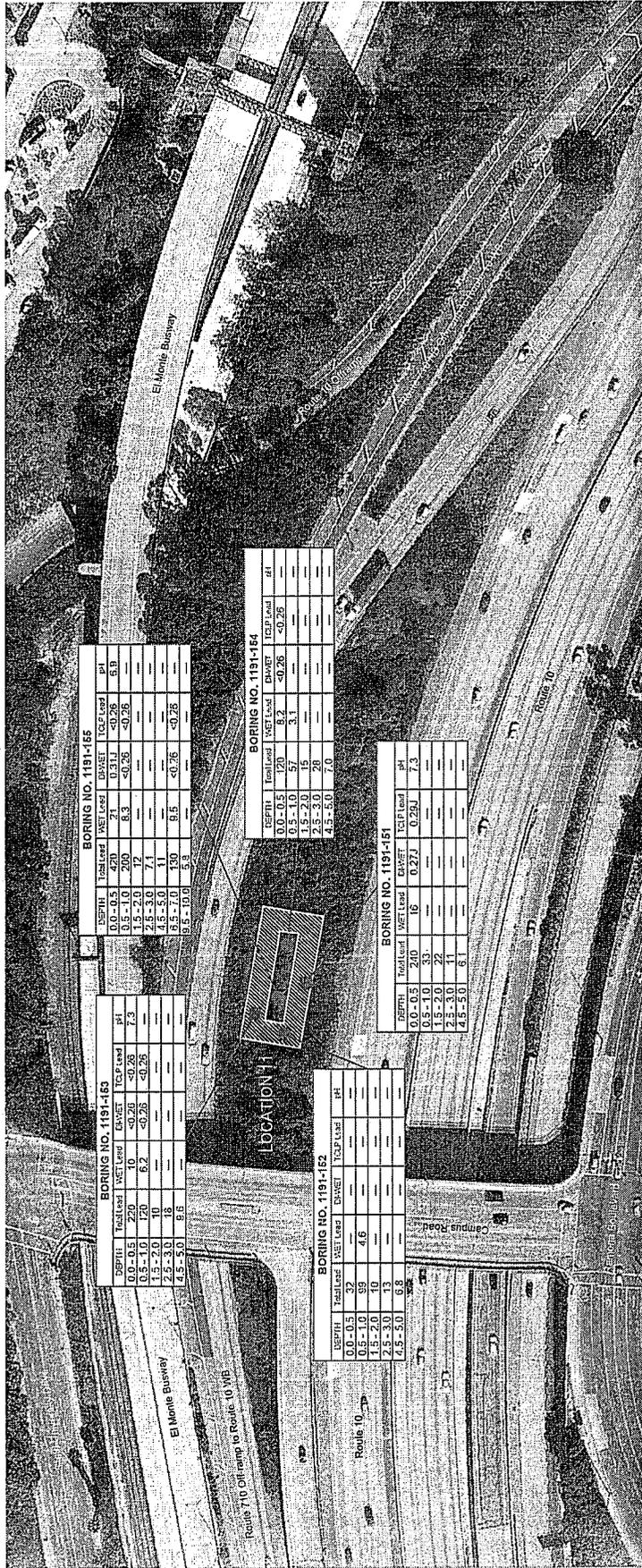
- - Approximate boring location
- TOTAL LEAD - Total Lead results in mg/kg
- WET LEAD - WET Lead results in mg/l
- DW-WET - DW-WET Lead results in mg/l
- TCLP LEAD - TCLP Lead results in mg/l
- DEPTH - Depth in feet
- <0.5 - Not detected at or above laboratory detection limits specified
- J - Estimated Value: Results qualified as an estimated value due to analytical bias in precision of accuracy



REFERENCE AREA: Caltrans, Layout Plan L-10
 BASE MAP: Google Earth Maps, 2010

GEOCON CONSULTANTS, INC.
 ENVIRONMENTAL GEOTECHNICAL MATERIALS
 1000 BOULDER BLVD., SUITE 100, BERKLEY, CA 94704
 PHONE (818) 941-3388 • FAX (818) 941-1704
 CHL 8000

SITE PLAN
 CALTRANS
 ROUTE LA 5, 10, 91, 110, 134 - ADL INVESTIGATION
 POST MILE: VARIOUS
 LOS ANGELES, CALIFORNIA
 FEBRUARY 2013 PROJECT NO. S9475-06-23 FIG. 11



BORING NO. 1191-155

DEPTH	WET LEAD	DI-WET LEAD	TCLP LEAD	pH
0.0 - 0.5	470	71	0.311	<0.26
0.5 - 1.0	200	6.3	<0.26	6.8
1.5 - 2.0	12	---	---	---
2.5 - 3.0	7.1	---	---	---
4.5 - 5.0	11	---	<0.26	---
4.5 - 5.0	8.9	---	<0.26	---

BORING NO. 1191-151

DEPTH	WET LEAD	DI-WET LEAD	TCLP LEAD	pH
0.0 - 0.5	120	8.2	<0.26	---
0.5 - 1.0	57	3.1	---	---
1.5 - 2.0	15	---	---	---
4.5 - 5.0	20	2.8	---	---

BORING NO. 1191-151

DEPTH	WET LEAD	DI-WET LEAD	TCLP LEAD	pH
0.0 - 0.5	30	16	0.259	7.3
0.5 - 1.0	33	---	---	---
1.5 - 2.0	22	---	---	---
2.5 - 3.0	11	---	---	---
4.5 - 5.0	6.1	---	---	---

BORING NO. 1191-153

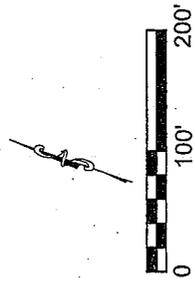
DEPTH	WET LEAD	DI-WET LEAD	TCLP LEAD	pH
0.0 - 0.5	70	4.9	<0.26	7.3
0.5 - 1.0	10	---	<0.26	---
1.5 - 2.0	10	6.2	<0.26	---
2.5 - 3.0	18	---	---	---
4.5 - 5.0	8.6	---	---	---

BORING NO. 1191-152

DEPTH	WET LEAD	DI-WET LEAD	TCLP LEAD	pH
0.0 - 0.5	37	---	---	---
0.5 - 1.0	59	4.6	---	---
1.5 - 2.0	10	---	---	---
4.5 - 5.0	8.2	---	---	---

LEGEND

- ④ - Approximate boring location
- TOTAL LEAD - Total Lead results in mg/kg
- WET LEAD - WET Lead results in mg/l
- DI-WET - DI-WET Lead results in mg/l
- TCLP LEAD - TCLP Lead results in mg/l
- DEPTH - Depth in feet
- <0.5 - Not detected at or above laboratory detection limits specified
- J - Estimated Value: Results qualified as an estimated value due to analytical bias in precision of accuracy



GEOCON
CONSULTANTS, INC.

ENVIRONMENTAL GEOTECHNICAL MATERIALS
800 N. SHORE BLVD., SUITE 800, BIRMINGHAM, CA 91504
PHONE (916) 841-6888 - FAX (916) 841-1704

CHL

8000

SITE PLAN

CALTRANS
ROUTE LA 5, 10, 91, 110, 134 - ADL INVESTIGATION
POST MILE: VARIOUS
LOS ANGELES, CALIFORNIA

FEBRUARY 2013 PROJECT NO. S9475-05-23 FIG. 12

REFERENCE AREA: Caltrans, Layout Plan L-11
BASE MAP: Google Earth Maps, 2010

TABLE 1
 BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
 LA-5, 10, 91, 110, 134 ADL INVESTIGATION
 LOS ANGELES COUNTY, CALIFORNIA

Sample ID	LONGITUDE	LATITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET (mg/l)	TCLP Lead (mg/l)	pH
Location 1								
1191-101-0.0	-118.2057828	34.02510583	0.0-0.5	220	4.2	---	<0.26	---
1191-101-0.5			0.5-1.0	310	3.9	---	<0.26	8.1
1191-101-1.5			1.5-2.0	140	1.7	---	---	---
1191-101-2.5			2.5-3.0	27	---	---	---	---
1191-101-4.5			4.5-5.0	9.5	---	---	---	---
1191-102-0.0	-118.2059133	34.02518088	0.0-0.5	160	4.0	---	<0.26	---
1191-102-0.5			0.5-1.0	290	3.9	---	0.29 J	7.1
1191-102-1.5			1.5-2.0	230	9.4	<0.26	0.34 J	---
1191-102-2.5			2.5-3.0	10	---	---	---	---
1191-102-4.5			4.5-5.0	17	---	---	---	---
1191-103-0.0	-118.2060668	34.02526083	0.0-0.5	150	2.5	---	<0.26	---
1191-103-0.5			0.5-1.0	140	3.0	---	---	---
1191-103-1.5			1.5-2.0	45	---	---	---	---
1191-103-2.5			2.5-3.0	17	---	---	---	---
1191-103-4.5			4.5-5.0	3.4	---	---	---	---
1191-104-0.0	-118.2058669	34.02509925	0.0-0.5	120	1.7	---	---	---
1191-104-0.5			0.5-1.0	95	1.4	---	---	---
1191-104-1.5			1.5-2.0	450	16	<0.26	<0.26	7.3
1191-104-2.5			2.5-3.0	15	---	---	---	---
1191-104-4.5			4.5-5.0	9.5	---	---	---	---
1191-105-0.0	-118.2059623	34.02513212	0.0-0.5	88	1.4	---	---	---
1191-105-0.5			0.5-1.0	150	4.3	---	<0.26	---
1191-105-1.5			1.5-2.0	21	---	---	---	---
1191-105-2.5			2.5-3.0	25	---	---	---	---
1191-105-4.5			4.5-5.0	14	---	---	---	---
1191-105-6.5			6.5-7.0	5.5	---	---	---	---
1191-105-9.5			9.5-10.0	8.7	---	---	---	---
Location 2								
1191-106-0.0	-118.2143882	34.05398562	0.0-0.5	290	10	<0.26	1.5	5.8
1191-106-0.5			0.5-1.0	110	4.0	---	<0.26	---
1191-106-1.5			1.5-2.0	10	---	---	---	---
1191-106-2.5			2.5-3.0	13	---	---	---	---
1191-106-4.5			4.5-5.0	6.8	---	---	---	---
1191-107-0.0	-118.2145919	34.0539146	0.0-0.5	20	---	---	---	---
1191-107-0.5			0.5-1.0	9.4	---	---	---	---
1191-107-1.5			1.5-2.0	6.8	---	---	---	---
1191-107-2.5			2.5-3.0	7.0	---	---	---	---
1191-107-4.5			4.5-5.0	5.7	---	---	---	---
1191-108-0.0	-118.2143443	34.05368085	0.0-0.5	140	4.4	---	<0.26	6.6
1191-108-0.5			0.5-1.0	19	---	---	---	---
1191-108-1.5			1.5-2.0	34	---	---	---	---
1191-108-2.5			2.5-3.0	5.8	---	---	---	---
1191-108-4.5			4.5-5.0	3.1	---	---	---	---
1191-109-0.0	-118.2144188	34.0537383	0.0-0.5	150	4.5	---	<0.26	6.5
1191-109-0.5			0.5-1.0	12	---	---	---	---
1191-109-1.5			1.5-2.0	9.0	---	---	---	---
1191-109-2.5			2.5-3.0	5.8	---	---	---	---
1191-109-4.5			4.5-5.0	9.4	---	---	---	---
1191-110-0.0	-118.2144453	34.05390345	0.0-0.5	10	---	---	---	---
1191-110-0.5			0.5-1.0	3.9	---	---	---	---
1191-110-1.5			1.5-2.0	5.5	---	---	---	---
1191-110-2.5			2.5-3.0	5.2	---	---	---	---
1191-110-4.5			4.5-5.0	7.3	---	---	---	---
1191-110-6.5			6.5-7.0	8.3	---	---	---	---
1191-110-9.5			9.5-10.0	9.4	---	---	---	---

TABLE I
 BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
 LA-5, 10, 91, 110, 134 ADL INVESTIGATION
 LOS ANGELES COUNTY, CALIFORNIA

Sample ID	LONGITUDE	LATITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET (mg/l)	TCLP Lead (mg/l)	pH
Location 3								
1191-111-0.0	-118.22264	34.08190978	0.0-0.5	78	3.7	---	---	---
1191-111-0.5			0.5-1.0	31	---	---	---	---
1191-111-1.5			1.5-2.0	120	4.1	---	---	---
1191-111-2.5			2.5-3.0	210	8.0	<0.26	0.57	7.7
1191-111-4.5			4.5-5.0	570	19	<0.26	0.58	7.9
1191-112-0.0	-118.22281	34.08156142	0.0-0.5	150	8.4	<0.26	0.57	---
1191-112-0.5			0.5-1.0	320	22	<0.26	0.88	7.8
1191-112-1.5			1.5-2.0	28	---	---	---	---
1191-112-2.5			2.5-3.0	20	---	---	---	---
1191-112-4.5			4.5-5.0	16	---	---	---	---
1191-113-0.0	-118.2225634	34.08173023	0.0-0.5	170	7.4	0.94	0.32 J	---
1191-113-0.5			0.5-1.0	10	---	---	---	---
1191-113-1.5			1.5-2.0	7.6	---	---	---	---
1191-113-2.5			2.5-3.0	16	---	---	---	---
1191-113-4.5			4.5-5.0	5.2	---	---	---	---
1191-114-0.0	-118.2227137	34.0817825	0.0-0.5	110	3.0	---	---	---
1191-114-0.5			0.5-1.0	24	---	---	---	---
1191-114-1.5			1.5-2.0	6.9	---	---	---	---
1191-114-2.5			2.5-3.0	15	---	---	---	---
1191-114-4.5			4.5-5.0	16	---	---	---	---
1191-115-0.0	-118.2227735	34.0816826	0.0-0.5	130	7.7	<0.26	0.37 J	---
1191-115-0.5			0.5-1.0	120	5.3	<0.26	0.43 J	---
1191-115-1.5			1.5-2.0	12	---	---	---	---
1191-115-2.5			2.5-3.0	9.8	---	---	---	---
1191-115-4.5			4.5-5.0	17	---	---	---	---
1191-115-6.5			6.5-7.0	23	---	---	---	---
1191-115-9.5			9.5-10.0	58	4.9	---	---	---
Location 4								
1191-116-0.0	-118.2301544	34.08514218	0.0-0.5	130	8.4	<0.26	0.32 J	7.6
1191-116-0.5			0.5-1.0	4.0	---	---	---	---
1191-116-1.5			1.5-2.0	2.6	---	---	---	---
1191-116-2.5			2.5-3.0	6.2	---	---	---	---
1191-116-4.5			4.5-5.0	3.1	---	---	---	---
1191-117-0.0	-118.2300234	34.08506213	0.0-0.5	23	---	---	---	---
1191-117-0.5			0.5-1.0	4.8	---	---	---	---
1191-117-1.5			1.5-2.0	8.5	---	---	---	---
1191-117-2.5			2.5-3.0	15	---	---	---	---
1191-117-4.5			4.5-5.0	5.9	---	---	---	---
1191-118-0.0	-118.229712	34.0849134	0.0-0.5	47	---	---	---	---
1191-118-0.5			0.5-1.0	36	---	---	---	---
1191-118-1.5			1.5-2.0	6.4	---	---	---	---
1191-118-2.5			2.5-3.0	8.0	---	---	---	---
1191-118-4.5			4.5-5.0	1.5	---	---	---	---
1191-119-0.0	-118.2298283	34.08509277	0.0-0.5	86	5.4	<0.26	0.31 J	7.1
1191-119-0.5			0.5-1.0	190	13	<0.26	0.29 J	7.7
1191-119-1.5			1.5-2.0	12	---	---	---	---
1191-119-2.5			2.5-3.0	8.9	---	---	---	---
1191-119-4.5			4.5-5.0	4.8	---	---	---	---
1191-120-0.0	-118.2295894	34.08509807	0.0-0.5	39	---	---	---	---
1191-120-0.5			0.5-1.0	24	---	---	---	---
1191-120-1.5			1.5-2.0	15	---	---	---	---
1191-120-2.5			2.5-3.0	15	---	---	---	---
1191-120-4.5			4.5-5.0	4.6	---	---	---	---
1191-120-6.5			6.5-7.0	5.0	---	---	---	---
1191-120-9.5			9.5-10.0	3.0	---	---	---	---

TABLE 1
 BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
 LA-5, 10, 91, 110, 134 ADL INVESTIGATION
 LOS ANGELES COUNTY, CALIFORNIA

Sample ID	LONGITUDE	LATITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET (mg/l)	TCLP Lead (mg/l)	pH
Location 5								
1191-121-0.0	-118.2442643	34.09528547	0.0-0.5	210 / 180	6.1 / 12	<0.26	0.52	7.0
1191-121-0.5			0.5-1.0	130 / 120	4.2 / 7.2	---	---	7.2
1191-121-1.5			1.5-2.0	17	---	---	---	---
1191-121-2.5			2.5-3.0	11	---	---	---	---
1191-121-4.5			4.5-5.0	12	---	---	---	---
1191-122-0.0	-118.2439743	34.0949476	0.0-0.5	77	4.3	---	---	---
1191-122-0.5			0.5-1.0	21	---	---	---	---
1191-122-1.5			1.5-2.0	17	---	---	---	---
1191-122-2.5			2.5-3.0	5.5	---	---	---	---
1191-123-0.0	-118.2444315	34.09526785	0.0-0.5	93	5.1	<0.26	0.29 J	---
1191-123-0.5			0.5-1.0	7.2	---	---	---	---
1191-123-1.5			1.5-2.0	4.8	---	---	---	---
1191-123-2.5			2.5-3.0	5.4	---	---	---	---
1191-124-0.0	-118.2440571	34.09481577	0.0-0.5	170	8.2	<0.26	0.36 J	7.0
1191-124-0.5			0.5-1.0	19	---	---	---	---
1191-124-1.5			1.5-2.0	5.8	---	---	---	---
1191-124-2.5			2.5-3.0	4.5	---	---	---	---
1191-124-4.5			4.5-5.0	5.7	---	---	---	---
1191-125-0.0	-118.2441372	34.09513117	0.0-0.5	110	5.7	<0.26	0.39 J	---
1191-125-0.5			0.5-1.0	120	6.6	<0.26	<0.26	---
1191-125-1.5			1.5-2.0	36	---	---	---	---
1191-125-2.5			2.5-3.0	19	---	---	---	---
1191-125-4.5			4.5-5.0	4.5	---	---	---	---
1191-125-6.5			6.5-7.0	9.7	---	---	---	---
1191-125-8.5			8.5-9.0	12	---	---	---	---
Location 6								
1191-126-0.0	-118.248709	34.10074588	0.0-0.5	690	46	<0.26	1.0	7.1
1191-126-0.5			0.5-1.0	240	16	<0.26	0.64	7.8
1191-126-1.5			1.5-2.0	17	---	---	---	---
1191-126-2.5			2.5-3.0	13	---	---	---	---
1191-126-4.5			4.5-5.0	22	---	---	---	---
1191-127-0.0	-118.2486345	34.10064727	0.0-0.5	160	12	<0.26	0.82	---
1191-127-0.5			0.5-1.0	130	12	<0.26	0.78	---
1191-127-1.5			1.5-2.0	28	---	---	---	---
1191-127-2.5			2.5-3.0	22	---	---	---	---
1191-127-4.5			4.5-5.0	17	---	---	---	---
1191-128-0.0	-118.2485148	34.10041602	0.0-0.5	190	14	<0.26	0.52	7.8
1191-128-0.5			0.5-1.0	15	---	---	---	---
1191-128-1.5			1.5-2.0	5.6	---	---	---	---
1191-128-2.5			2.5-3.0	8.5	---	---	---	---
1191-128-4.5			4.5-5.0	27	---	---	---	---
1191-129-0.0	-118.2489507	34.10056665	0.0-0.5	130	8.7	<0.26	0.61	---
1191-129-0.5			0.5-1.0	4.0	---	---	---	---
1191-129-1.5			1.5-2.0	13	---	---	---	---
1191-129-2.5			2.5-3.0	15	---	---	---	---
1191-130-0.0	-118.2485842	34.10047007	0.0-0.5	160	15	<0.26	0.69	---
1191-130-0.5			0.5-1.0	27	---	---	---	---
1191-130-1.5			1.5-2.0	18	---	---	---	---
1191-130-2.5			2.5-3.0	7.0	---	---	---	---
1191-130-4.5			4.5-5.0	10	---	---	---	---
1191-130-6.5			6.5-7.0	5.8	---	---	---	---
1191-130-8.5			8.5-9.0	14	---	---	---	---

TABLE 1
 BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
 LA-5, 10, 91, 110, 134 ADL INVESTIGATION
 LOS ANGELES COUNTY, CALIFORNIA

Sample ID	LONGITUDE	LATITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET (mg/l)	TCLP Lead (mg/l)	pH
Location 7								
1191-131-0.0	-118.2520897	34.10325383	0.0-0.5	310	13	<0.26	0.57	7.2
1191-131-0.5			0.5-1.0	58	4.0	---	---	---
1191-131-1.5			1.5-2.0	4.8	---	---	---	---
1191-131-2.5			2.5-3.0	13	---	---	---	---
1191-131-4.5			4.5-5.0	6.6	---	---	---	---
1191-132-0.0	-118.2517782	34.10295918	0.0-0.5	320	15	<0.26	0.53	6.9
1191-132-0.5			0.5-1.0	50	1.3	---	---	---
1191-132-1.5			1.5-2.0	16	---	---	---	---
1191-132-2.5			2.5-3.0	4.0	---	---	---	---
1191-132-4.5			4.5-5.0	4.2	---	---	---	---
1191-133-0.0	-118.2516058	34.1027865	0.0-0.5	110	4.7	---	<0.26	---
1191-133-0.5			0.5-1.0	27	---	---	---	---
1191-133-1.5			1.5-2.0	27	---	---	---	---
1191-133-2.5			2.5-3.0	4.2	---	---	---	---
1191-133-4.5			4.5-5.0	6.7	---	---	---	---
1191-134-0.0	-118.2517805	34.10307447	0.0-0.5	150	6.2	<0.26	0.59	6.1
1191-134-0.5			0.5-1.0	25	---	---	---	---
1191-134-1.5			1.5-2.0	19	---	---	---	---
1191-134-2.5			2.5-3.0	9.1	---	---	---	---
1191-134-4.5			4.5-5.0	26	---	---	---	---
1191-135-0.0	-118.2519284	34.1031901	0.0-0.5	120	5.7	<0.26	<0.26	---
1191-135-0.5			0.5-1.0	49	---	---	---	---
1191-135-1.5			1.5-2.0	4.2	---	---	---	---
1191-135-2.5			2.5-3.0	4.1	---	---	---	---
1191-135-4.5			4.5-5.0	3.5	---	---	---	---
1191-135-6.5			6.5-7.0	2.9	---	---	---	---
1191-135-9.5			9.5-10.0	2.9	---	---	---	---
Location 8								
1191-136-0.0	-118.2587506	34.10854458	0.0-0.5	240	17	<0.26	0.47 J	---
1191-136-0.5			0.5-1.0	67	5.8	<0.26	0.30 J	---
1191-136-1.5			1.5-2.0	9.3	---	---	---	---
1191-136-2.5			2.5-3.0	35	---	---	---	---
1191-136-4.5			4.5-5.0	57	3.1	---	---	---
1191-137-0.0	-118.2585865	34.10852268	0.0-0.5	110	8.5	0.31 J	0.49 J	---
1191-137-0.5			0.5-1.0	0.39 J	---	---	---	---
1191-137-1.5			1.5-2.0	8.6	---	---	---	---
1191-137-2.5			2.5-3.0	11	---	---	---	---
1191-137-4.5			4.5-5.0	47	---	---	---	---
1191-138-0.0	-118.2584598	34.10840203	0.0-0.5	280	18	<0.26	0.84	7.7
1191-138-0.5			0.5-1.0	160	14	<0.26	0.94	---
1191-138-1.5			1.5-2.0	46	---	---	---	---
1191-138-2.5			2.5-3.0	35	---	---	---	---
1191-139-0.0	-118.2586598	34.10851223	0.0-0.5	350	25	0.67	0.85	8.0
1191-139-0.5			0.5-1.0	79	3.4	---	---	---
1191-139-1.5			1.5-2.0	19	---	---	---	---
1191-139-2.5			2.5-3.0	100	3.3	---	---	---
1191-140-0.0	-118.2585605	34.10846982	0.0-0.5	460	23	0.30 J	0.79	8.0
1191-140-0.5			0.5-1.0	47	---	---	---	---
1191-140-1.5			1.5-2.0	17	---	---	---	---
1191-140-2.5			2.5-3.0	88	1.8	---	---	---

TABLE 1
 BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
 LA-5, 10, 91, 110, 134 ADL INVESTIGATION
 LOS ANGELES COUNTY, CALIFORNIA

Sample ID	LONGITUDE	LATITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET (mg/l)	TCLP Lead (mg/l)	pH
Location 9								
1191-141-0.0	-118.2774582	34.14204523	0.0-0.5	5.4	---	---	---	---
1191-141-0.5			0.5-1.0	13	---	---	---	---
1191-141-1.5			1.5-2.0	3.2	---	---	---	---
1191-141-2.5			2.5-3.0	2.6	---	---	---	---
1191-141-4.5			4.5-5.0	2.5	---	---	---	---
1191-142-0.0	-118.2775411	34.14194275	0.0-0.5	440	32	1.3	1.1	4.9
1191-142-0.5			0.5-1.0	51 / 38	63 / 4.1	<0.26	0.55	6.3
1191-142-1.5			1.5-2.0	3.3	---	---	---	---
1191-142-2.5			2.5-3.0	5.0	---	---	---	---
1191-142-4.5			4.5-5.0	3.3	---	---	---	---
1191-143-0.0	-118.277363	34.14172112	0.0-0.5	5.2	---	---	---	---
1191-143-0.5			0.5-1.0	7.8	---	---	---	---
1191-143-1.5			1.5-2.0	3.5	---	---	---	---
1191-143-2.5			2.5-3.0	4.2	---	---	---	---
1191-143-4.5			4.5-5.0	4.0	---	---	---	---
1191-144-0.0	-118.2774761	34.14195255	0.0-0.5	160	9.8	<0.26	0.64	7.3
1191-144-0.5			0.5-1.0	4.8	---	---	---	---
1191-144-1.5			1.5-2.0	3.4	---	---	---	---
1191-144-2.5			2.5-3.0	3.7	---	---	---	---
1191-144-4.5			4.5-5.0	5.3	---	---	---	---
1191-145-0.0	-118.2774802	34.14181448	0.0-0.5	88	4.8	---	---	---
1191-145-0.5			0.5-1.0	8.9	---	---	---	---
1191-145-1.5			1.5-2.0	2.1	---	---	---	---
1191-145-2.5			2.5-3.0	4.0	---	---	---	---
1191-145-4.5			4.5-5.0	3.0	---	---	---	---
1191-145-6.5			6.5-7.0	3.4	---	---	---	---
1191-145-9.5			9.5-10.0	5.0	---	---	---	---
Location 10								
1191-146-0.0	-118.2854487	34.15283322	0.0-0.5	490	18	<0.26	0.55	7.2
1191-146-0.5			0.5-1.0	110	5.5	<0.26	---	---
1191-146-1.5			1.5-2.0	83	3.6	---	---	---
1191-146-2.5			2.5-3.0	3.6	---	---	---	---
1191-146-4.5			4.5-5.0	2.7	---	---	---	---
1191-147-0.0	-118.2855481	34.15298688	0.0-0.5	160	6.2	<0.26	0.29 J	5.6
1191-147-0.5			0.5-1.0	14	---	---	---	---
1191-147-1.5			1.5-2.0	4.4	---	---	---	---
1191-147-2.5			2.5-3.0	2.6	---	---	---	---
1191-147-4.5			4.5-5.0	2.0	---	---	---	---
1191-148-0.0	-118.2858808	34.15300802	0.0-0.5	230	5.8	<0.26	0.61	6.2
1191-148-0.5			0.5-1.0	68	0.91	---	---	---
1191-148-1.5			1.5-2.0	4.9	---	---	---	---
1191-148-2.5			2.5-3.0	3.5	---	---	---	---
1191-148-4.5			4.5-5.0	4.0	---	---	---	---
1191-149-0.0	-118.2856493	34.15293573	0.0-0.5	75	2.3	---	---	---
1191-149-0.5			0.5-1.0	88	3.3	---	---	---
1191-149-1.5			1.5-2.0	4.6	---	---	---	---
1191-149-2.5			2.5-3.0	3.0	---	---	---	---
1191-149-4.5			4.5-5.0	2.5	---	---	---	---
1191-150-0.0	-118.285519	34.15290778	0.0-0.5	60	1.6	---	---	---
1191-150-0.5			0.5-1.0	17	---	---	---	---
1191-150-1.5			1.5-2.0	19	---	---	---	---
1191-150-2.5			2.5-3.0	3.5	---	---	---	---
1191-150-4.5			4.5-5.0	3.3	---	---	---	---
1191-150-6.5			6.5-7.0	3.1	---	---	---	---
1191-150-9.5			9.5-10.0	2.2	---	---	---	---

TABLE 1
 BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
 LA-5, 10, 91, 110, 134 ADL INVESTIGATION
 LOS ANGELES COUNTY, CALIFORNIA

Sample ID	LONGITUDE	LATITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET (mg/l)	TCLP Lead (mg/l)	pH
Location 11								
1191-151-0.0	-118.170548	34.06176218	0.0-0.5	240	16	0.27 J	0.29 J	7.3
1191-151-0.5			0.5-1.0	33	---	---	---	---
1191-151-1.5			1.5-2.0	22	---	---	---	---
1191-151-2.5			2.5-3.0	11	---	---	---	---
1191-151-4.5			4.5-5.0	6.1	---	---	---	---
1191-152-0.0	-118.1707309	34.06187412	0.0-0.5	32	---	---	---	---
1191-152-0.5			0.5-1.0	99	4.6	---	---	---
1191-152-1.5			1.5-2.0	10	---	---	---	---
1191-152-2.5			2.5-3.0	13	---	---	---	---
1191-152-4.5			4.5-5.0	6.8	---	---	---	---
1191-153-0.0	-118.1706729	34.06191338	0.0-0.5	220	10	<0.26	<0.26	7.3
1191-153-0.5			0.5-1.0	120	6.2	<0.26	<0.26	---
1191-153-1.5			1.5-2.0	10	---	---	---	---
1191-153-2.5			2.5-3.0	18	---	---	---	---
1191-153-4.5			4.5-5.0	9.6	---	---	---	---
1191-154-0.0	-118.1704568	34.06188152	0.0-0.5	120	8.2	<0.26	<0.26	---
1191-154-0.5			0.5-1.0	57	3.1	---	---	---
1191-154-1.5			1.5-2.0	15	---	---	---	---
1191-154-2.5			2.5-3.0	28	---	---	---	---
1191-154-4.5			4.5-5.0	7.0	---	---	---	---
1191-155-0.0	-118.170621	34.06182387	0.0-0.5	420	21	0.31 J	<0.26	6.9
1191-155-0.5			0.5-1.0	200	8.3	<0.26	<0.26	---
1191-155-1.5			1.5-2.0	12	---	---	---	---
1191-155-2.5			2.5-3.0	7.1	---	---	---	---
1191-155-4.5			4.5-5.0	11	---	---	---	---
1191-155-6.5			6.5-7.0	130	9.5	<0.26	<0.26	---
1191-155-9.5			9.5-10.0	5.8	---	---	---	---
Location 12								
1191-156-0.0	-118.0533547	34.07164665	0.0-0.5	180	7.8	<0.26	0.36 J	8.3
1191-156-0.5			0.5-1.0	230 / 97	6.7 / 7.2	<0.26	<0.26	7.5
1191-156-1.5			1.5-2.0	6.3	---	---	---	---
1191-156-2.5			2.5-3.0	7.8	---	---	---	---
1191-156-4.5			4.5-5.0	2.4	---	---	---	---
1191-157-0.0	-118.0529713	34.07158168	0.0-0.5	76	6.4	<0.26	---	---
1191-157-0.5			0.5-1.0	54	3.6	---	---	---
1191-157-1.5			1.5-2.0	13	---	---	---	---
1191-157-2.5			2.5-3.0	5.2	---	---	---	---
1191-157-4.5			4.5-5.0	3.7	---	---	---	---
1191-158-0.0	-118.0531827	34.07198875	0.0-0.5	30	---	---	---	---
1191-158-0.5			0.5-1.0	29	---	---	---	---
1191-158-1.5			1.5-2.0	20	---	---	---	---
1191-158-2.5			2.5-3.0	13	---	---	---	---
1191-158-4.5			4.5-5.0	2.2	---	---	---	---
1191-159-0.0	-118.0530666	34.07173733	0.0-0.5	31	---	---	---	---
1191-159-0.5			0.5-1.0	100	5.9	0.27 J	<0.26	---
1191-159-1.5			1.5-2.0	60	3.4	---	---	---
1191-159-2.5			2.5-3.0	5.6	---	---	---	---
1191-159-4.5			4.5-5.0	3.8	---	---	---	---
1191-160-0.0	-118.0532387	34.0717694	0.0-0.5	47	---	---	---	---
1191-160-0.5			0.5-1.0	160 / 170	12 / 12	<0.26	<0.26	8.6
1191-160-1.5			1.5-2.0	19	---	---	---	---
1191-160-2.5			2.5-3.0	9.3	---	---	---	---
1191-160-4.5			4.5-5.0	3.5	---	---	---	---
1191-160-6.5			6.5-7.0	3.2	---	---	---	---
1191-160-9.5			9.5-10.0	3.1	---	---	---	---

DATE	COMMIT	ROUTE	PROJECT NO.	SHEET NO.
07	LA	5	43.0/59.0	

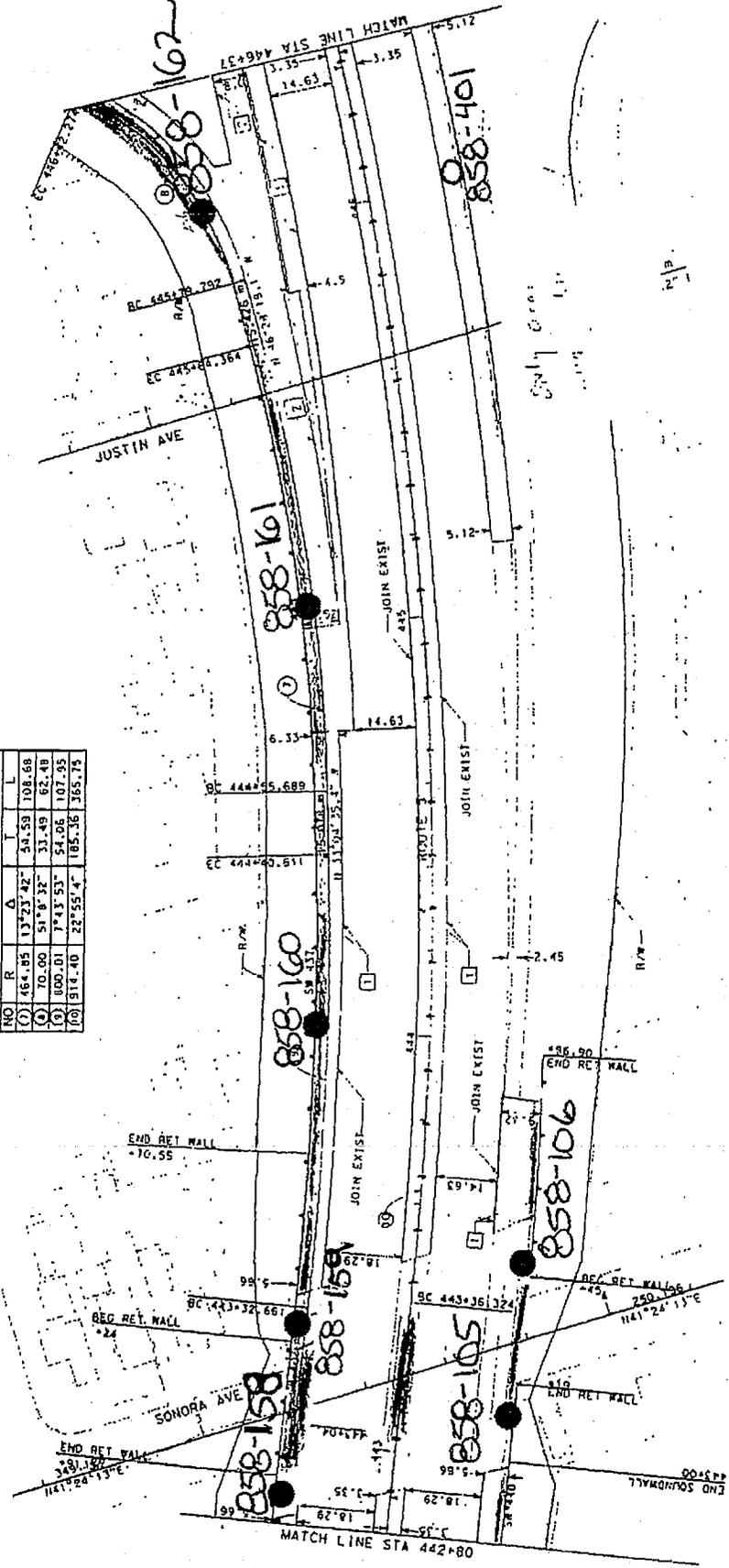
REGISTERED CIVIL ENGINEER DATE: 11/11/1988
 STATE OF CALIFORNIA
 CIVIL ENGINEER NO. 41210
 LICENSE EXPIRES 11/11/2000

THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.



NO	R	Δ	L
(1)	464.05	13°23'42"	54.59 108.68
(2)	70.00	51°8'32"	33.49 62.48
(3)	1000.01	7°43'53"	54.06 107.95
(4)	814.40	22°55'4"	185.36 365.75

NOTE: 1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	PROJECT E. 428	CHECKED BY DANIEL J. MORAN	DATE
OFFICE OF DESIGN D	JOSEPH KIBE	DESIGNED BY SUJASTI SUJANTO	REVISOR
		DATE REVISOR	

ALL DIMENSIONS ARE IN METERS
 UNLESS OTHERWISE SHOWN
LAYOUT
 SCALE - 1:500

TABLE 1 – SOIL SAMPLE LABORATORY ANALYTICAL TEST RESULTS, LEAD

Sample ID	Sample Depth (m)	Sample Date	TTLIC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
Retaining Wall 440; Sound Wall 438							
858-101-0.0	0.0	9/14/2005	130	16	1.3	--	--
858-101-0.3	0.3	9/14/2005	140	19	2.2	--	8.2
858-101-0.6	0.6	9/14/2005	Refusal	--	--	--	--
858-101-0.9	0.9	9/14/2005	Refusal	--	--	--	--
858-101-1.5	1.5	9/14/2005	Refusal	--	--	--	--
858-102-0.0	0.0	9/14/2005	75	5.4	ND<0.25	--	--
858-102-0.3	0.3	9/14/2005	53	2.8	--	--	--
858-102-0.6	0.6	9/14/2005	24	--	--	--	--
858-102-0.9	0.9	9/14/2005	8.0	--	--	--	7.2
858-102-1.5*	1.5	9/14/2005	160	7.4	ND<0.25	--	--
858-103-0.0	0.0	9/14/2005	60	4.4	--	--	--
858-103-0.3	0.3	9/14/2005	7.5	--	--	--	--
858-103-0.6	0.6	9/14/2005	Refusal	--	--	--	--
858-103-0.9	0.9	9/14/2005	Refusal	--	--	--	--
858-103-1.5	1.5	9/14/2005	Refusal	--	--	--	--
858-104-0.0	0.0	9/14/2005	720	45	ND<0.25	0.35	7.9
858-104-0.3	0.3	9/14/2005	30	--	--	--	--
858-104-0.6	0.6	9/14/2005	11	--	--	--	7.8
858-104-0.9	0.9	9/14/2005	Refusal	--	--	--	--
858-104-1.5	1.5	9/14/2005	Refusal	--	--	--	--
858-105-0.0	0.0	9/14/2005	52	4.0	--	--	--
858-105-0.3	0.3	9/14/2005	37	--	--	--	--
858-105-0.6	0.6	9/14/2005	25	--	--	--	--
858-105-0.9	0.9	9/14/2005	Refusal	--	--	--	--
858-105-1.5	1.5	9/14/2005	Refusal	--	--	--	--
858-106-0.0	0.0	9/14/2005	140	11	0.35	--	--
858-106-0.3	0.3	9/14/2005	120	1.7	--	--	--
858-106-0.6	0.6	9/14/2005	Refusal	--	--	--	--
858-106-0.9	0.9	9/14/2005	Refusal	--	--	--	--
858-106-1.5	1.5	9/14/2005	Refusal	--	--	--	--
Bridge Borings							
858-107-0.0	0.0	9/14/2005	520	41	1.5	1.5	--
858-107-0.3	0.3	9/14/2005	Refusal	--	--	--	--
858-107-0.6	0.6	9/14/2005	Refusal	--	--	--	--
858-107-0.9	0.9	9/14/2005	Refusal	--	--	--	--
858-107-1.5	1.5	9/14/2005	Refusal	--	--	--	--
858-108-0.0	0.0	9/14/2005	160	11	ND<0.25	--	--
858-108-0.3	0.3	9/14/2005	27	--	--	--	--
858-108-0.6	0.6	9/14/2005	21	--	--	--	--
858-108-0.9	0.9	9/14/2005	13	--	--	--	--
858-108-1.5	1.5	9/14/2005	Refusal	--	--	--	--
858-109-0.0	0.0	9/14/2005	35	--	--	--	--
858-109-0.3	0.3	9/14/2005	27	--	--	--	--
858-109-0.6	0.6	9/14/2005	45	--	--	--	7.9
858-109-0.9	0.9	9/14/2005	Refusal	--	--	--	--
858-109-1.5	1.5	9/14/2005	Refusal	--	--	--	--
858-110-0.0	0.0	9/14/2005	NS	NS	NS	NS	NS
858-110-0.3	0.3	9/14/2005	NS	NS	NS	NS	NS
858-110-0.6	0.6	9/14/2005	NS	NS	NS	NS	NS

TABLE 1 – SOIL SAMPLE LABORATORY ANALYTICAL TEST RESULTS, LEAD

Sample ID	Sample Depth (m)	Sample Date	TTLIC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
858-159-0.9	0.9	9/26/2005	27	--	--	--	8.0
858-159-1.5	1.5	9/26/2005	Refusal	--	--	--	---
858-160-0.0	0.0	9/26/2005	290	10	ND<0.25	--	---
858-160-0.3	0.3	9/26/2005	240	17	0.44	--	---
858-160-0.6	0.6	9/26/2005	30	--	--	--	---
858-160-0.9	0.9	9/26/2005	160	11	0.26	--	---
858-160-1.5	1.5	9/26/2005	Refusal	--	--	--	---
858-161-0.0	0.0	9/26/2005	240	27	ND<0.25	--	---
858-161-0.3	0.3	9/26/2005	800	70	ND<0.25	1.7	---
858-161-0.6	0.6	9/26/2005	5.1	--	--	--	---
858-161-0.9	0.9	9/26/2005	Refusal	--	--	--	---
858-161-1.5	1.5	9/26/2005	Refusal	--	--	--	---
858-162-0.0	0.0	9/26/2005	360	22	ND<0.25	0.46	---
858-162-0.3	0.3	9/26/2005	110	7.9	ND<0.25	--	---
858-162-0.6	0.6	9/26/2005	61	4.5	--	--	---
858-162-0.9	0.9	9/26/2005	Refusal	--	--	--	---
858-162-1.5	1.5	9/26/2005	Refusal	--	--	--	---
858-163-0.0	0.0	9/26/2005	130	7.9	ND<0.25	--	---
858-163-0.3	0.3	9/26/2005	140	8.9	ND<0.25	--	---
858-163-0.6	0.6	9/26/2005	Refusal	--	--	--	---
858-163-0.9	0.9	9/26/2005	Refusal	--	--	--	---
858-163-1.5	1.5	9/26/2005	Refusal	--	--	--	---
858-164-0.0	0.0	9/26/2005	130	18	ND<0.25	--	---
858-164-0.3	0.3	9/26/2005	8.6	--	--	--	6.9
858-164-0.6	0.6	9/26/2005	Refusal	--	--	--	---
858-164-0.9	0.9	9/26/2005	Refusal	--	--	--	---
858-164-1.5	1.5	9/26/2005	Refusal	--	--	--	---
Bridge Borings							
858-165-0.0	0.0	9/26/2005	2,700	--	--	29	---
858-165-0.3	0.3	9/26/2005	Refusal	--	--	--	---
858-165-0.6	0.6	9/26/2005	Refusal	--	--	--	---
858-165-0.9	0.9	9/26/2005	Refusal	--	--	--	---
858-165-1.5	1.5	9/26/2005	Refusal	--	--	--	---
858-166-0.0	0.0	9/26/2005	2,500	--	--	14	---
858-166-0.3	0.3	9/26/2005	Refusal	--	--	--	---
858-166-0.6	0.6	9/26/2005	Refusal	--	--	--	---
858-166-0.9	0.9	9/26/2005	Refusal	--	--	--	---
858-166-1.5	1.5	9/26/2005	Refusal	--	--	--	---
Retaining Walls 471, 475A, 475B, and 477							
858-167-0.0	0.0	9/26/2005	1,300	--	--	12	---
858-167-0.3	0.3	9/26/2005	Refusal	--	--	--	---
858-167-0.6	0.6	9/26/2005	Refusal	--	--	--	---
858-167-0.9	0.9	9/26/2005	Refusal	--	--	--	---
858-167-1.5	1.5	9/26/2005	Refusal	--	--	--	---
858-168-0.0	0.0	9/27/2005	NS	NS	NS	NS	NS
858-168-0.3	0.3	9/27/2005	NS	NS	NS	NS	NS
858-168-0.6	0.6	9/27/2005	NS	NS	NS	NS	NS
858-168-0.9	0.9	9/27/2005	NS	NS	NS	NS	NS
858-168-1.5	1.5	9/27/2005	NS	NS	NS	NS	NS
858-169-0.0	0.0	9/27/2005	55	3.0	--	--	---

Geotechnical Design Report
for
Overhead Sign Structure

Memorandum

To : Mr. Khan Hossain
Design Manager
Office of Design C
Division of Engineering Services

Date: January 23, 2014

File No.: 07-LA-005 PM 24.41
Overhead Sign Replacement
Project ID 07140001271
EA 07-295601

From : **DEPARTMENT OF TRANSPORTATION**
Division of Engineering Services
METS-Geotechnical Service
Office of Geotechnical Design South-1

Subject : Geotechnical Design Report For O.H. Sign Structure

INTRODUCTION

As requested by your office in the memo dated January 21, 2014, the following is the geotechnical recommendations for new overhead sign structure foundation proposed on State Route 5 (I-5) in Los Angeles County.

PROJECT LOCATION

The new overhead sign structure location is shown in Figure 1. The structure will be located at PM 24.41 in the northbound of I-5.

SCOPE OF WORK

The geotechnical work performed for this project includes:

- Review of geologic information, and Los Feliz Blvd OC as-built LOTBs.
- Visual inspection of job site.
- Interpretation of subsurface geologic and groundwater conditions.
- Preparation of this memorandum to present geotechnical recommendation for sign post foundation.

It should be noted that no subsurface exploration has been performed at the proposed sign structure location due to late request for the recommendations.

PROJECT DESCRIPTION

The proposed project consists of one new sign structure. The information on the proposed sign structure provided by District is summarized in Table 1. The existing roadway sign

structure, as shown in Figure 2 at the project location will be removed and new overhead sign structure will be constructed.

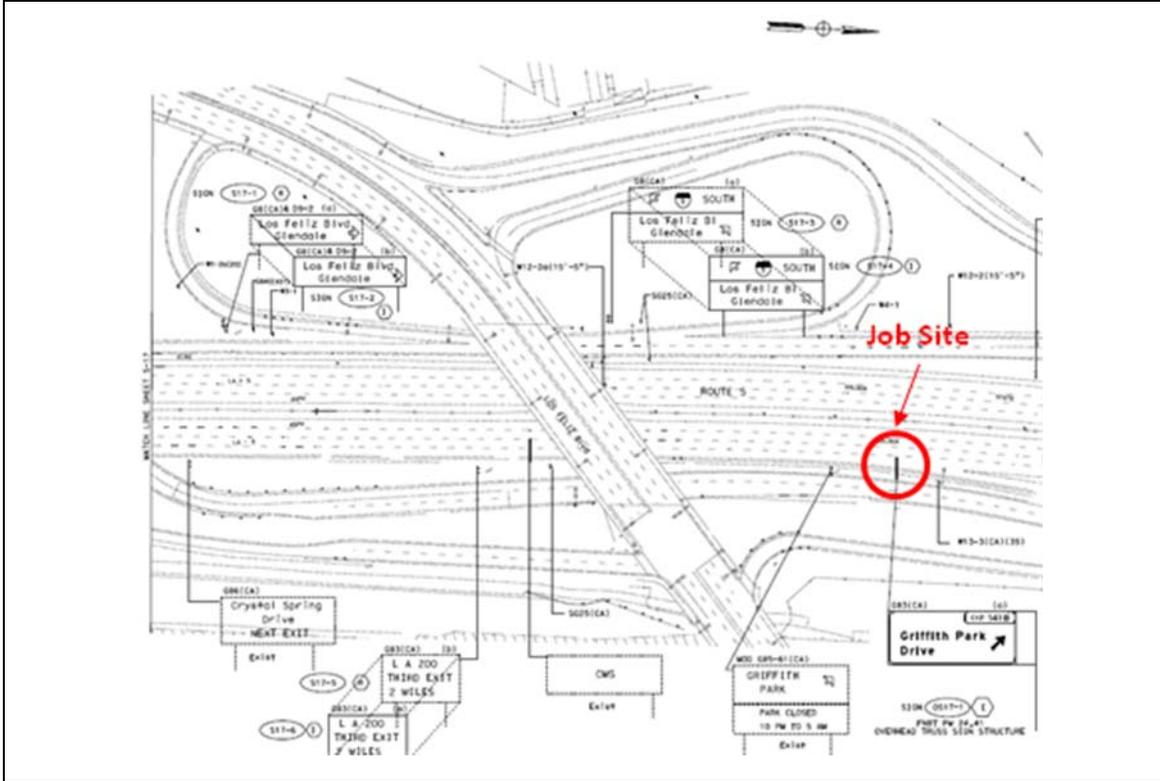


Figure 1 New Sign Post Location

Table 1 - Summary of New Overhead Sign Structure

Sign Number	Location		Post Type
	Post Mile	Direction	
OS17-1	24.41	FNBT	VII

SITE GEOLOGY AND SUBSURFACE CONDITIONS

Site Geology

The project site is located along the Interstate 5, between Griffith Park on the west and the Los Angeles River on the east. This portion of Interstate 5 traverses the base of steep, eastward facing slopes that are part of the eastern extent of the Hollywood Hills. The City of Glendale and Atwater Village are developed east of this location, on the flood plains of the Los Angeles River.

According to the Geologic Map of the Hollywood and Burbank (South ½) Quadrangles Los Angeles County, California by Thomas Dibblee, 1991 (Dibblee) (Figure 3), the project site is

underlain by generally continuous, unconsolidated detrital sediments. The sediments are predominantly composed of gravel and sand of major stream channels.

The unconsolidated detrital sediments are underlain by Tertiary Modelo Formation. The Modelo Formation is described by Dibblee as white-weathering, thin bedded, platy siliceous shale that is hard to semi-chalky.



Figure 2 Existing Roadway Sign Structure

Subsurface Conditions

Based on the Los Feliz Blvd OC as-built LOTBs, subsurface profile indicates loose brown silty sand, gravel, and cobbles from elev. 385 to 400 ft. The layer is underlain by slightly compact grey brown clayey silt or medium dense silty sand to the elev. of 380 ft. The layer below to elev. 380 ft consists of very hard dark grey siltstone, or shale.

Groundwater

Based on the Los Feliz Blvd OC as-built LOTBs, groundwater is encountered about 20 feet below ground surface (elev. 380 feet). For this report we reviewed water well information on the Los Angeles County Department of Public Works Water Resources Department Website (<http://dpw.lacounty.gov/wrd/wellinfo/index.cfm>). Well No. 3928 is located approximately 800 ft west of the job site. A review of groundwater wells is summarized in Table 2.

Based on the Los Feliz Blvd OC as-built LOTBs and groundwater wells reviewed, groundwater table surface is at approximately elev. 380 feet.

It should be noted that groundwater table levels can fluctuate with the change of season and other factors including local irrigation.

Table 2. Summary of Ground Water Well Information

Well No.	Location	Latest Date of Measurement	Ground Water Table Below Ground Surface (ft)	Elevation (ft)
3928	Crystal Springs Dr near Griffith Park and Southern Railroad.	01/05/2010	36.0	379.0

Seismic Evaluation

The job site is not located within any California Geological Survey (CGS) designated Earthquake Fault Zone (EFZ). The job site is not considered prone to surface fault rupture hazard; therefore, the possibility of surface fault rupture hazard at this site is considered low.

Liquefaction

Although groundwater table is assumed relatively shallow at the location, liquefaction potential is considered to be low because of relatively high densities of the subsurface material (sedimentary rock) at the site.



Figure 3 Geologic Map of the Hollywood and Burbank (South 1/2) Quadrangles Los Angeles County, California by Thomas Dibblee, 1991 (Dibblee),

CORROSIVITY

Due to lack of soil samples for corrosion tests, foundation soil at these overhead sign structure locations should be assumed to be corrosive.

GEOTECHNICAL RECOMMENDATIONS

Based on the review of geologic information, and as-built LOTBs, the engineering properties of the foundation soils at proposed sign post location satisfy the design requirements of Caltrans Standard Plans.

- Foundation design is based on AASHTO 2001, Article 13.6 Brom's approximate procedure assuming a cohesionless material with angle of friction equal to 30 degrees and unit weight of soil equal to 120 pcf. Based on the subsurface conditions, a 60 inch diameter, 23 foot depth CIDH pile for proposed sign foundation is adequate.

CONSTRUCTION CONSIDERATIONS

- Difficult drilling and caving should be anticipated while drilling into native materials due to the presence of cobbles or sedimentary rock fragments. Due to seasonal rainfall and fluctuating groundwater elevations, there is the high potential for groundwater to be encountered during the CIDH pile construction.

If you have any questions or comments, please call Sungro Cho at (916) 227-5398, or Deh-Jeng Jang at (916) 227-5722.

Prepared by: Date: 1/23/2014



Sungro Cho

Sungro Cho, Ph.D., P.E.
Transportation Engineer
Branch A

Fiber Optic System As-Built Drawings

E:\DWG NET 3/23/92
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT
 GLORIA GWYNNE
 CHECKED BY
 DATE REVISIONS
 5-22 7-2 JK
 7-20 JK

PROJECT NOTES:

1. INSTALL TYPE III-BF SERVICE EQUIPMENT ENCLOSURE ON NEW FOUNDATION.
2. INSTALL CAMERA POLE (TYPE 15) ON EXISTING SIGN STRUCTURE POLE. SEE STRUCTURES SHEETS FOR DETAILS. INSTALL CAMERA ON POLE. SEE SHEET E-75 FOR CAMERA INSTALLATION DETAILS.
3. INSTALL CAMERA POLE (TYPE 30) AND FOUNDATION. SEE STRUCTURES SHEETS FOR DETAILS. INSTALL CAMERA ON POLE. SEE SHEET E-75 FOR CAMERA INSTALLATION DETAILS.
4. INSTALL CAMERA POLE (TYPE 40) AND FOUNDATION. SEE STRUCTURES SHEETS FOR DETAILS. INSTALL CAMERA ON POLE. SEE SHEET E-75 FOR CAMERA INSTALLATION DETAILS.
5. INSTALL CAMERA POLE (TYPE 45) AND FOUNDATION. SEE STRUCTURES SHEETS FOR DETAILS. INSTALL CAMERA ON POLE. SEE SHEET E-75 FOR CAMERA INSTALLATION DETAILS.
6. INSTALL NO.6(T) PB (MODIFIED) WITH TWISTED PAIR SPLICE CLOSURE. SEE DETAIL B, SHEET E-69.
7. INSTALL TYPE 334-TV CABINETS (2) ON NEW FOUNDATION; CABINETS TO INCLUDE CAMERA CONTROL RECEIVER, EQUIPMENT AT DATA NODE AND EQUIPMENT AT VIDEO NODE. SEE DETAIL B, SHEET E-74.
8. INSTALL TYPE 334-TV CABINET ON NEW FOUNDATION; CABINET TO INCLUDE CAMERA CONTROL RECEIVER, VIDEO TRANSMITTER AND VIDEO REPEATER. SEE DETAIL A, SHEET E-74.
9. INSTALL TYPE 334-TV CABINET ON NEW FOUNDATION; CABINET TO INCLUDE CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER. SEE DETAIL A, SHEET E-73.
10. INSTALL TYPE 334-TV CABINET ON NEW FOUNDATION; CABINET TO INCLUDE CAMERA CONTROL RECEIVER, VIDEO TRANSMITTER AND EQUIPMENT AT DATA NODE. SEE DETAIL C, SHEET E-73.
11. INSTALL TYPE 334-TV CABINET ON NEW FOUNDATION; CABINETS TO INCLUDE CAMERA CONTROL RECEIVER AND EQUIPMENT AT VIDEO NODE. SEE DETAIL B, SHEET E-73.
12. JACK 4" GALVANIZED STEEL CONDUIT BENEATH ROADWAY. SEE DETAIL B, SHEET E-65.
13. INSTALL CONDUIT(S) IN 6" WIDE TRENCH IN DIRT OFF SHOULDER, WITHIN 10' OF EDGE OF SHOULDER. SEE SHEETS E-61 AND E-64 FOR DETAILS.
14. INSTALL CONDUIT(S) IN 6" WIDE TRENCH IN ASPHALT SHOULDER, MAINTAINING 4' MINIMUM DISTANCE FROM EDGE OF TRAVELWAY. SEE SHEETS E-62 AND E-64 FOR DETAILS.
15. JACK TWO 4" GALVANIZED STEEL CONDUITS BENEATH ROADWAY. SEE DETAIL C, SHEET E-65.
16. INSTALL COMMUNICATIONS TERMINAL BLOCK AND TELEPHONE BRIDGE IN EXISTING CONTROLLER CABINET. SEE SHEET E-71 FOR DETAILS.
17. PRUNE PLANTS AFTER CAMERA IS INSTALLED AND OPERATING. ENGINEER TO VERIFY THAT FINAL VIEW IS UNOBSCURED.
18. INSTALL BD-3 PEDESTAL FOR COMMUNICATIONS. SEE SHEET E-72 FOR DETAILS.
19. INSTALL CONDUIT(S) IN 6" WIDE SAWCUT TRENCH IN CONCRETE SIDEWALK, MAINTAINING 4' MINIMUM DISTANCE FROM EDGE OF TRAVELWAY. SEE SHEETS E-63 AND E-64 FOR DETAILS.
28. INSTALL 3" STL CONDUIT. ELECTRIC UTILITY COMPANY TO INSTALL 3 #2 CONDUCTORS.
29. ELECTRIC UTILITY COMPANY TO INSTALL METER.
30. INSTALL 3" CONDUIT TYPE H SERVICE RISER ON POWER POLE.
31. INSTALL 240V/120V STEP DOWN TRANSFORMER IN PULL BOX.
32. JACK 2" GALVANIZED STEEL CONDUIT BENEATH ROADWAY. SEE DETAIL A, SHEET E-65.
33. ADD SERVICE (AND COMMUNICATIONS) CONDUCTORS IN EXISTING CONDUIT.
34. INSTALL 15A, 120V CIRCUIT BREAKER FOR CAMERA AND TYPE 334-TV CABINET.
35. REMOVE EXISTING SERVICE RISER FROM POWER POLE.
36. INSTALL 20A, 120V CIRCUIT BREAKER FOR CONTROLLER CABINET.
37. INSTALL 2 15A, 120V CIRCUIT BREAKERS FOR CAMERAS AND TYPE 334-TV CABINETS.
38. ADD COMMUNICATIONS CABLE(S) TO EXISTING CONDUIT.

39. INSTALL 15A, 240V CIRCUIT BREAKER FOR CAMERA AND TYPE 334-TV CABINET.
40. INSTALL 40A, 120V CIRCUIT BREAKER FOR CONTROLLER CABINET.
41. INSTALL 20A, 120V CIRCUIT BREAKER FOR CONTROLLER CABINET.
42. INSTALL 40A, 240V CIRCUIT BREAKER FOR FREEWAY LIGHTING.
43. INSTALL 40A, 240V CIRCUIT BREAKER FOR FREEWAY SIGN(S).
51. ATTACH RISER CONDUIT TO FACE OF ABUTMENT WALL WITH TWO-HOLE PIPE STRAPS. LOCATE IN LINE WITH CONDUIT LOCATION ON STRUCTURE. SEE DETAIL A, SHEET E-87.
52. ATTACH RISER CONDUIT TO FACE OF COLUMN OR PIER WALL WITH TWO-HOLE PIPE STRAPS. LOCATE RISER IN LINE WITH CONDUIT LOCATION ON STRUCTURE. SEE DETAIL B, SHEET E-88.
53. ATTACH RISER CONDUIT TO FACE OF WING WALL AND/OR ABUTMENT WALL WITH TWO-HOLE PIPE STRAPS. LOCATE IN LINE WITH CONDUIT LOCATION ON STRUCTURE. SEE DETAIL C, SHEET E-88.
54. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL R, SHEET E-91.
55. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL J, SHEET E-91.
56. CORE HOLE IN CONCRETE WALL AT LOCATION REQUIRED BY PLACEMENT OF CONDUIT ON STRUCTURE. DIAMETER OF CORED HOLE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT PLUS 1/2 INCH. SEE DETAIL D, SHEET E-89.
57. INSTALL CONDUIT(S) IN NEW CONCRETE RAIL AT FACE OF TYPE 9 RAIL ON WING WALL. TRANSITION CONDUIT(S) FROM NEW CONCRETE SECTION TO TRENCH IN BACKFILL NEAR END OF WING WALL. SEE RAIL MODIFICATIONS SAN FERNANDO ROAD OVERHEAD BARRIER DETAILS.
58. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL E, SHEET E-90.
59. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL P, SHEET E-90.
60. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL L, SHEET E-90.
61. ATTACH CONDUIT WITH PIPE HANGER STRAPS TO BOTTOM SOFFIT OF BRIDGE DECK SLAB IN INTERIOR BAY. LOCATE CONDUIT TO CLEAR BRACING. SEE DETAIL I, SHEET E-92.
66. ATTACH CONDUIT TO OUTSIDE OF BRIDGE RAIL. INSTALL COVER OVER CONDUIT. SEE DETAIL O, SHEET E-93.
68. DRILL AND BOND REINFORCING STEEL IN HORIZONTAL SURFACE BEHIND TYPE 27 RAIL. PLACE CONDUIT(S) ON HORIZONTAL OR VERTICAL POSITION TO CLEAR EXISTING FACILITIES. ENCASE CONDUITS IN CONCRETE. SEE DETAIL N, SHEET E-92.
70. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL F, SHEET E-90.
71. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN UTILITY VOID AND REPLACE CONCRETE. SEE DETAIL G, SHEET E-90.
72. ATTACH CONDUIT WITH ONE-HOLE PIPE STRAPS TO OUTSIDE OF RAIL POST. LOCATE CONDUIT AT SAME ELEVATION AS BOTTOM CHANNEL OF RAIL. SEE DETAIL H, SHEET E-90.
73. CONSTRUCT TYPE 25M-9 BARRIER AT FACE OF EXISTING TYPE 9 BARRIER RAIL. INSTALL CONDUIT IN NEWLY CONSTRUCTED RAIL. SEE MODIFICATIONS SAN FERNANDO ROAD OVERHEAD BARRIER DETAILS.
74. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL M, SHEET E-91.
75. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL K, SHEET E-89.
76. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL S, SHEET E-89.
79. CONNECT NEWLY INSTALLED CONDUIT TO EXISTING CONDUIT.

GENERAL NOTES:

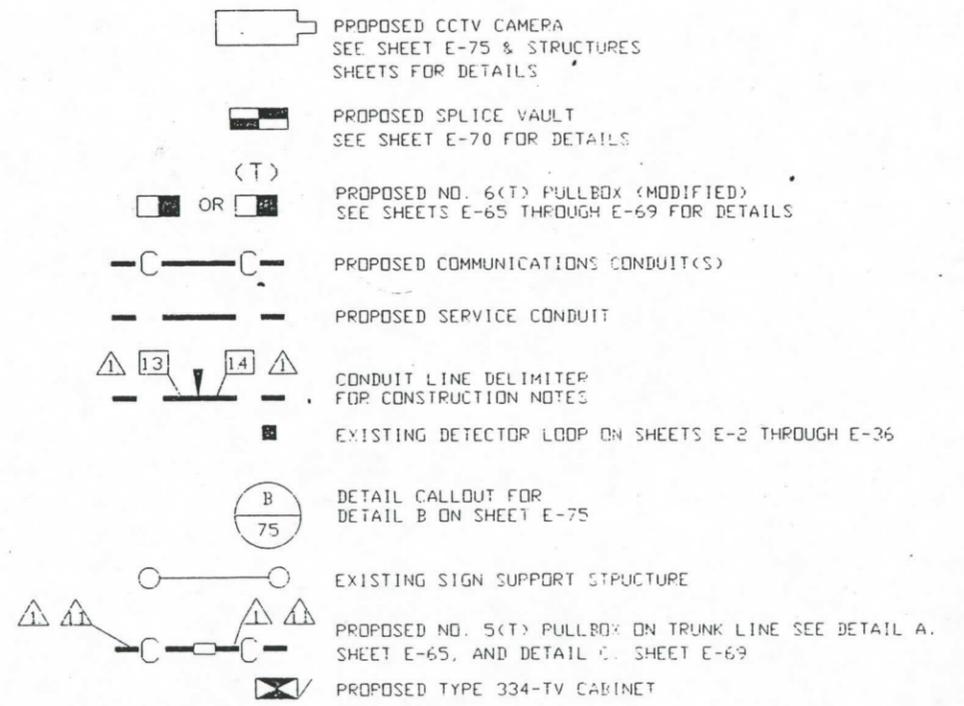
1. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON PLAN WERE OBTAINED FROM OWNER'S RECORDS AND/OR OWNERS PLANS.
2. THE LOCATION OF UNDERGROUND FACILITIES SHOWN ON PLAN ARE APPROXIMATE.
3. BLANK
4. THE LOCATIONS OF EXISTING CONTROLLER CABINETS, EXISTING SERVICE ENCLOSURES, POWER POLES AND EXISTING DEMARCATION BOXES ARE APPROXIMATE.
5. THE LOCATIONS OF PROPOSED CCTV POLES AND TOWERS SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER PRIOR TO PLACEMENT OF FOUNDATIONS.
6. THE LOCATIONS OF PROPOSED CABINETS, PULL BOXES, SPLICE VAULTS AND DEMARCATION BOXES ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
7. TYPE 334-TV CABINET DOOR SWING SHOWN ON NEW CABINETS INDICATES FRONT DOOR.
8. EXISTING DETECTOR LOOPS AND CONDUITS ARE SHOWN IN THE VICINITY OF PROPOSED CONDUIT TRENCHES. CONTRACTOR SHALL EXERCISE CARE TO AVOID DAMAGE TO EXISTING CONDUITS. TRENCHING WITH HAND TOOLS MAY BE REQUIRED.
9. BEFORE REMOVING OR MODIFYING ANY EXISTING ELECTRICAL FACILITIES, THE CONTRACTOR SHALL PROVIDE 72 HOUR ADVANCED WRITTEN NOTICE TO ALL AGENCIES CONCERNED.
10. FOR SUPPLEMENTAL LEGEND, SEE STANDARD PLANS ES-1A AND ES-1B.
11. UNLESS OTHERWISE NOTED, ALL CONDUIT BENDS SHALL BE 4 FOOT RADIUS FACTORY BENDS.
12. ALL CONDUITS IN CONDUCTOR SCHEDULE TABLES ARE EXISTING UNLESS MARKED (N) INDICATING PROPOSED NEW CONDUIT. ALL CONDUCTORS IN PROPOSED NEW CONDUITS ARE NEW. ALL CONDUCTORS IN EXISTING CONDUITS ARE EXISTING UNLESS MARKED (N).
13. PVC, WHERE CALLED OUT IN THESE PLANS, SHALL MEAN RIGID NON-METALLIC CONDUIT AS DEFINED IN THE STANDARD SPECIFICATIONS.
14. ALL NO. 5 AND NO. 6 PULLBOXES ARE THE TRAFFIC TYPE WHETHER OR NOT THE PULLBOX IS IDENTIFIED WITH A (T) MODIFIER.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,10	16.9/46.2,50.1	23	153

Joseph A. Kwak 3/23/92
 REGISTERED ELECTRICAL ENGINEER (Date)
 8-31-92
 PLANS APPROVAL DATE

NATIONAL ENGINEERING TECHNOLOGY
 16700 VALLEY VIEW AVE., SUITE 260
 LA MIRADA, CA. 90638
 IN ASSOCIATION WITH:
 EBASCO SERVICES INCORPORATED
 KATZ, OKITSU & ASSOCIATES
 WAGNER ENGINEERING & SURVEY, INC.
 CONTROL DESIGN SYSTEMS

LEGEND



LEGEND AND NOTES

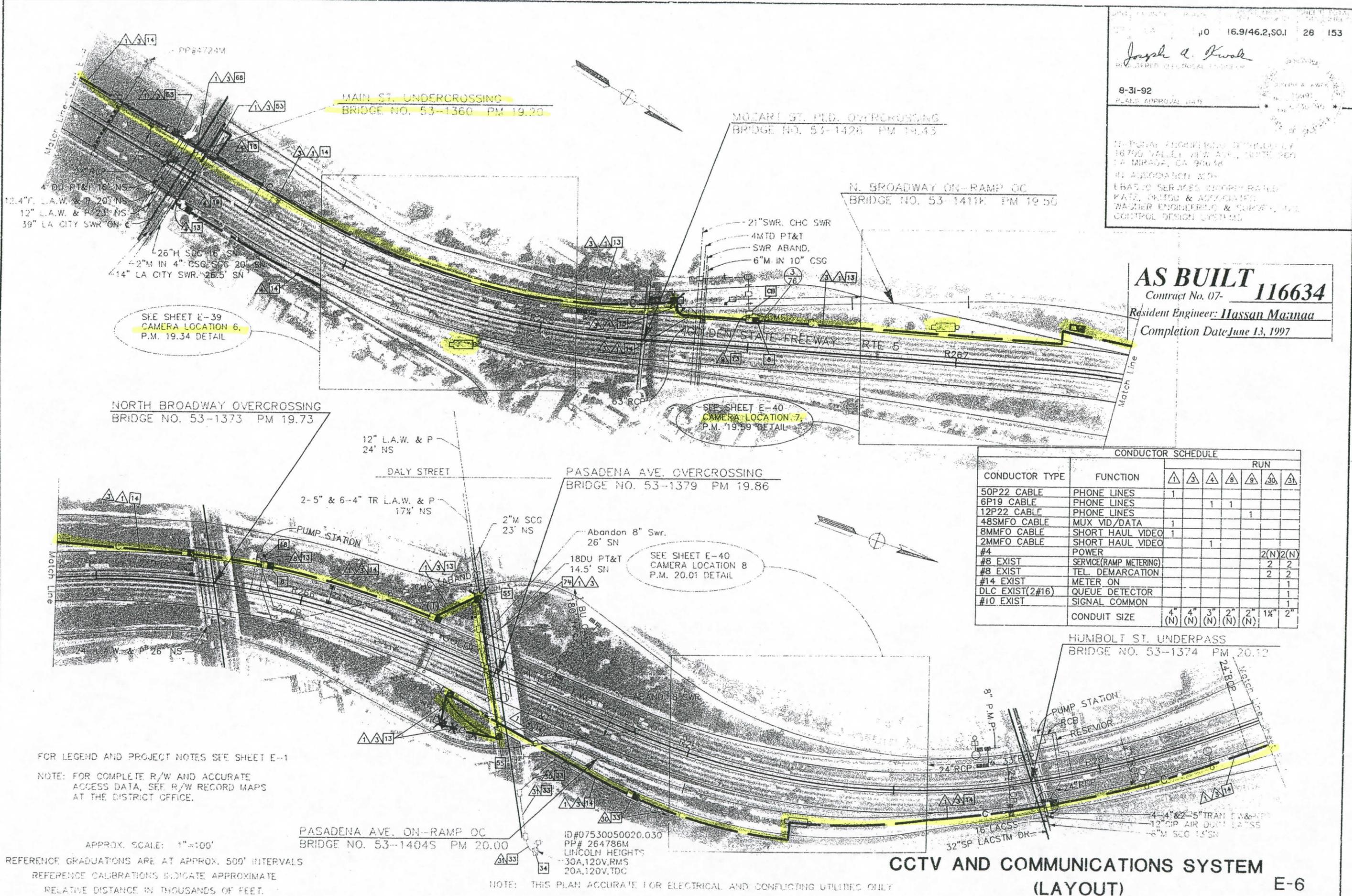
Joseph A. Kwak
 REGISTERED ELECTRICAL ENGINEER
 8-31-92
 PLANS APPROVAL DATE
 NATIONAL ASSOCIATION OF ELECTRICAL ENGINEERS
 16770 VALLEY VIEW AVENUE, SUITE 200
 LA MIRADA, CA 90648
 IN ASSOCIATION WITH
 LEADING SERVICES CORPORATION
 KATE, CHITOU & ASSOCIATES
 WADEER ENGINEERING & SURVEY, INC.
 CONTROL DESIGN SYSTEMS

AS BUILT 116634
 Contract No. 07-
 Resident Engineer: Hassan Manana
 Completion Date June 13, 1997

DATE REVISION BY
 5/92 JK
 CHECKED BY
 3/23 DATE REVISION
 5/92 JK
 CALCULATED/DESIGNED BY
 5/92 JK

DESIGN BY
 GLORIA GWYNNE

STAT
 CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 05/15/92
 1.1663006.ENG



CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN						
		1	2	3	4	5	6	7
50P22 CABLE	PHONE LINES	1						
6P19 CABLE	PHONE LINES			1	1			
12P22 CABLE	PHONE LINES					1		
48SMFO CABLE	MUX VID/DATA	1						
8MMFO CABLE	SHORT HAUL VIDEO	1						
2MMFO CABLE	SHORT HAUL VIDEO			1				
#4	POWER							2(N)2(N)
#8 EXIST	SERVICE (RAMP METERING)							2 2
#8 EXIST	TEL. DEMARICATION							2 2
#14 EXIST	METER ON							1
DLC EXIST(2#16)	QUEUE DETECTOR							1
#10 EXIST	SIGNAL COMMON							1
CONDUIT SIZE		4" (N)	4" (N)	3" (N)	2" (N)	2" (N)	1 1/2"	2"

NORTH BROADWAY OVERCROSSING
 BRIDGE NO. 53-1373 PM 19.73

PASADENA AVE. OVERCROSSING
 BRIDGE NO. 53-1379 PM 19.86

HUMBOLT ST. UNDERPASS
 BRIDGE NO. 53-1374 PM 20.12

SEE SHEET E-39
 CAMERA LOCATION 6,
 P.M. 19.34 DETAIL

SEE SHEET E-40
 CAMERA LOCATION 7,
 P.M. 19.59 DETAIL

SEE SHEET E-40
 CAMERA LOCATION 8
 P.M. 20.01 DETAIL

FOR LEGEND AND PROJECT NOTES SEE SHEET E-1
 NOTE: FOR COMPLETE R/W AND ACCURATE
 ACCESS DATA, SEE R/W RECORD MAPS
 AT THE DISTRICT OFFICE.

APPROX. SCALE: 1"=100'

REFERENCE GRADUATIONS ARE AT APPROX. 500' INTERVALS
 REFERENCE CALIBRATIONS INDICATE APPROXIMATE
 RELATIVE DISTANCE IN THOUSANDS OF FEET.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONFLICTING UTILITIES ONLY

**CCTV AND COMMUNICATIONS SYSTEM
 (LAYOUT) E-6**



10 16.9/46.2,S0.1 29 153

Joseph A. Kwak
REGISTERED PROFESSIONAL ENGINEER

8-31-92
PLANS APPROVAL

NATIONAL ENGINEERING FELLOWSHIP
36700 GALLERY VIEW AVE., SUITE 201
LA MIRADA, CA 90638

IN ASSOCIATION WITH:
ERASCO SERVICES INCORPORATED
KATEL, OKITSU & ASSOCIATES
WAGNER ENGINEERING & SURVEY, INC.
CONTROL DESIGN SYSTEMS

AS BUILT 116634
Contract No. 07-
Resident Engineer: *Hassan Mannaa*
Completion Date: June 13, 1997

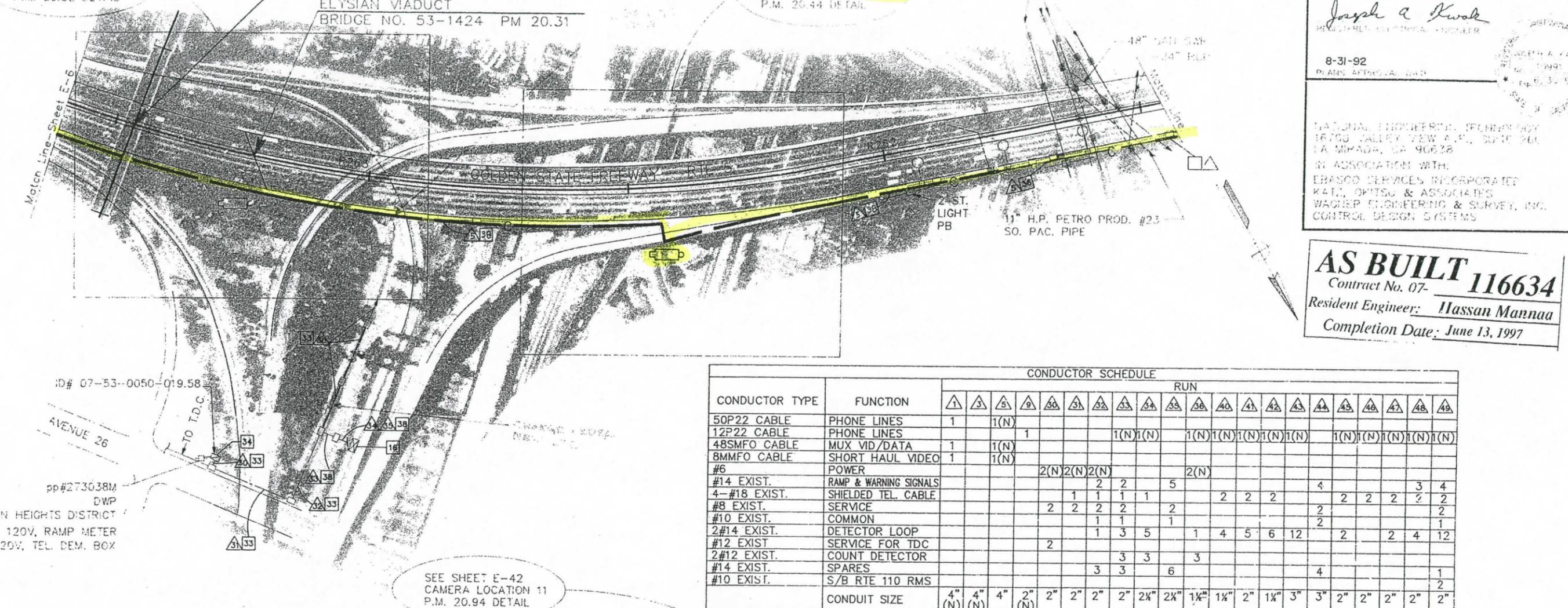
DATE REVISIONED BY 5/1/93
CHECKED BY JK 3/23 DATE REVISIONED
CALCULATED/DESIGNED BY
DESIGN OVERSIGHT HT
DESIGN ENGINEER GLORIA GWYNNE
ALIFORNIA - DEPARTMENT OF TRANSPORTATION
STATE OF CALIFORNIA

SEE SHEET E-41
CAMERA LOCATION 9
P.M. 20.32 DETAIL

AT & SF RR
BRIDGE NO. 53-1405 PM 20.26

ELYSIAN VIADUCT
BRIDGE NO. 53-1424 PM 20.31

SEE SHEET E-41
CAMERA LOCATION 10
P.M. 20.44 DETAIL



CONDUCTOR TYPE	FUNCTION	CONDUCTOR SCHEDULE																		
		△1	△2	△3	△4	△5	△6	△7	△8	△9	△10	△11	△12	△13	△14	△15	△16	△17	△18	△19
50P22 CABLE	PHONE LINES	1		1(N)																
12P22 CABLE	PHONE LINES									1(N)1(N)										
48SMFO CABLE	MUX VID/DATA	1		1(N)						1(N)1(N)1(N)1(N)1(N)										
8MMFO CABLE	SHORT HAUL VIDEO	1		1(N)																
#6	POWER					2(N)2(N)2(N)										2(N)				
#14 EXIST.	RAMP & WARNING SIGNALS							2	2		5								4	
4-#18 EXIST.	SHIELDED TEL. CABLE							1	1	1	1							2	2	2
#8 EXIST.	SERVICE					2	2	2	2		2							2		2
#10 EXIST.	COMMON							1	1		1							2		1
2#14 EXIST.	DETECTOR LOOP							1	3	5										
#12 EXIST.	SERVICE FOR TDC					2														
2#12 EXIST.	COUNT DETECTOR							3	3		3									
#14 EXIST.	SPARES							3	3		6									1
#10 EXIST.	S/B RTE 110 RMS																			2
	CONDUIT SIZE	4" (N)	4" (N)	4"	2" (N)	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"

ID# 07-53-0050-019.58

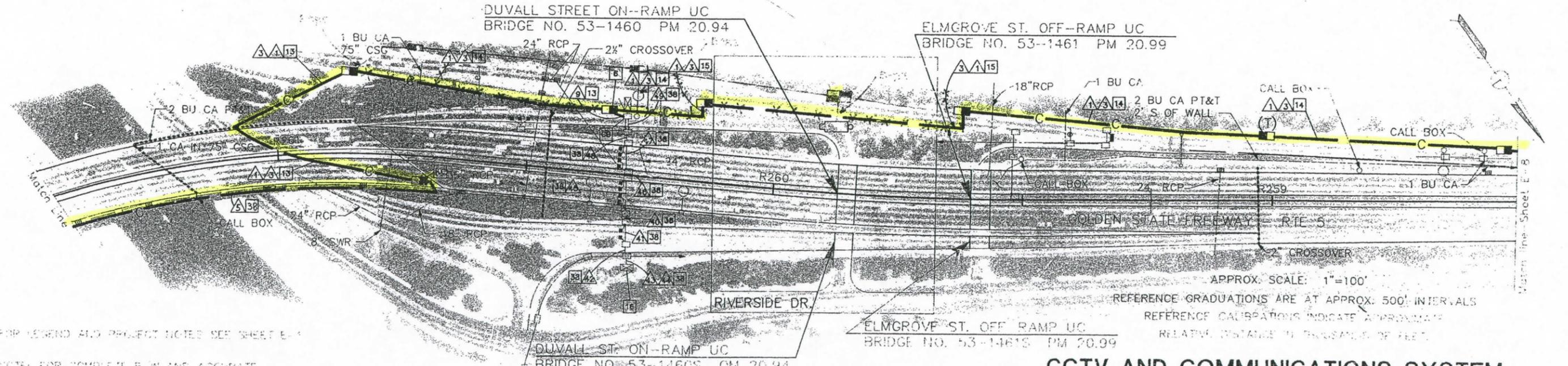
AVENUE 26

pp#273038M
DWP
LINCOLN HEIGHTS DISTRICT
40A, 120V, RAMP METER
20A, 120V, TEL. DEM. BOX

SEE SHEET E-42
CAMERA LOCATION 11
P.M. 20.94 DETAIL

DUVALL STREET ON-RAMP UC
BRIDGE NO. 53-1460 PM 20.94

ELMGROVE ST. OFF-RAMP UC
BRIDGE NO. 53-1461 PM 20.99



FOR LEGEND AND PROJECT NOTES SEE SHEET E-4

NOTE: FOR COMPLETE R/W AND ACCURATE ADDRESS DATA, SEE R/A RECORD MAPS AT THE DISTRICT OFFICE.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONDUCTING UTILITIES ONLY

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

E-7

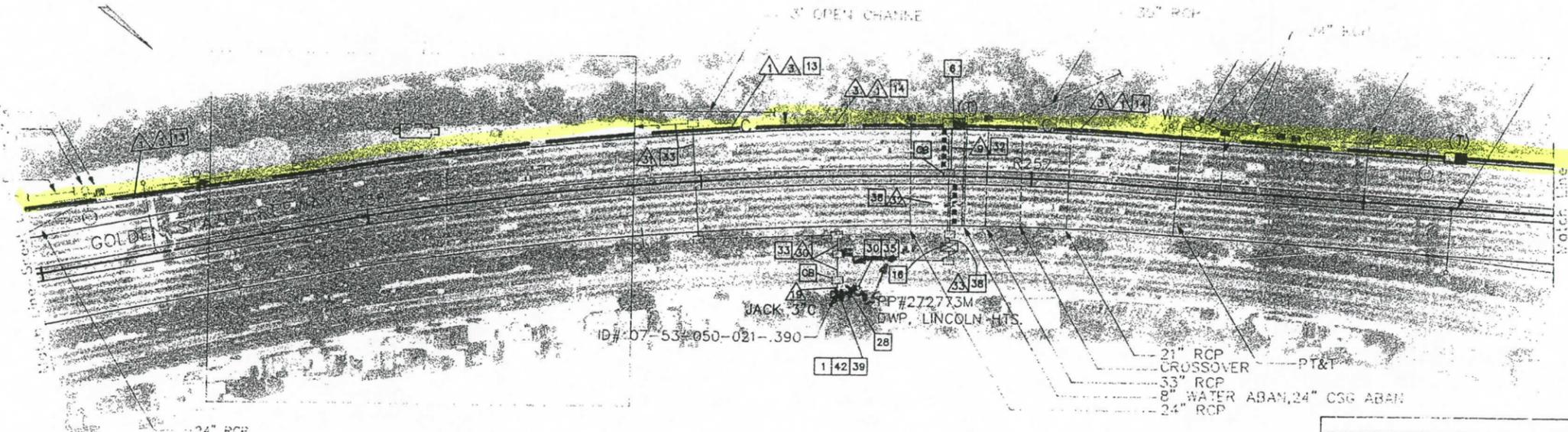
NET SHEET 1142
CAMERA LOCATION 10
P.M. 01.34 (E.T.A.)

10 16.9/46.2,50.1 30 153

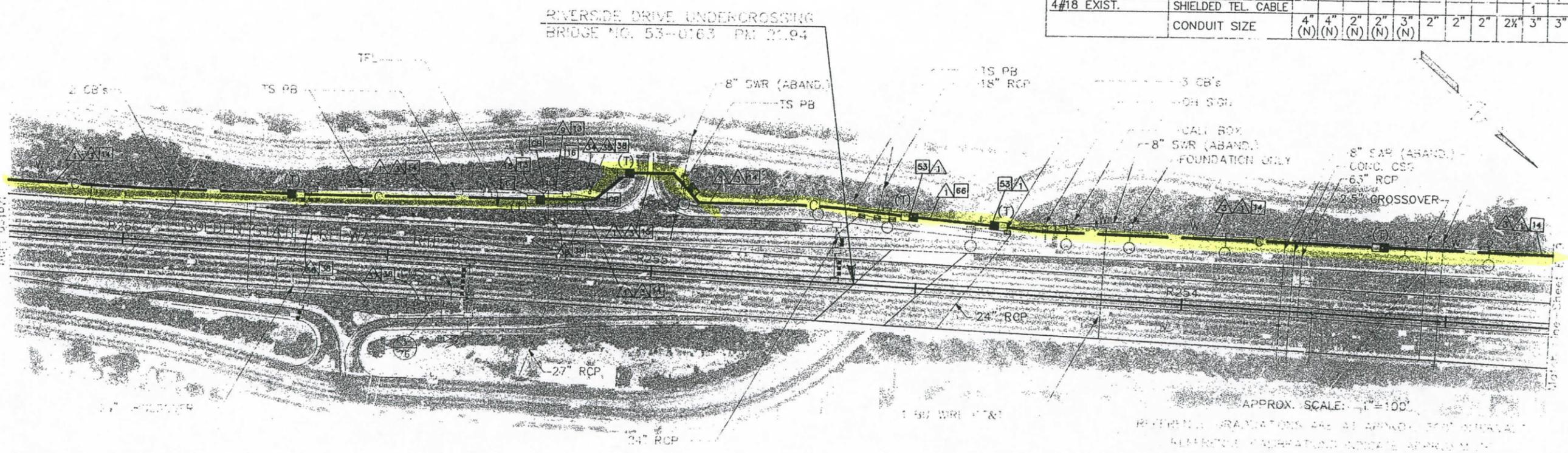
Joseph & Kwak

8-31-92

AS BUILT 116634
Contract No. 07-
Resident Engineer: *Hassan Mawoo*
Completion Date: June 13, 1997



CONDUCTOR TYPE	FUNCTION	CONDUCTOR SCHEDULE													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
50P22 CABLE	PHONE LINES	1													
12P22 CABLE	PHONE LINES			1	2					1(N)	1(N)	1(N)		1(N)	1(N)
48SMFO CABLE	MUX VID/DATA	1													
8MMFO CABLE	SHORT HAUL VIDEO	1													
#8	POWER					2	2(N)	2(N)							
#8	GROUND					1									
#6 EXIST.	FWY LIGHTING					2	2	2							
DLC EXIST.	DETECTOR LOOP									5	10	10			
#8 EXIST.	RMS SERVICE													2	
#14 EXIST.	RAMP METER													6	
#10 EXIST.	COMMON													1	
4#18 EXIST.	SHIELDED TEL. CABLE													1	1
	CONDUIT SIZE	4" (N)	4" (N)	2" (N)	2" (N)	3" (N)	2"	2"	2"	2 1/2"	3"	3"	2"	3"	



CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

DESIGNED BY JK 3/23

DESIGN OVER: JHT
GLORIA GWYNNE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

NOTE: FOR DOUBLE CHECK AND APPROVAL, ALL DATA SHOWN ON RECORD MAPS AT THE TIME OF WORK.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND POWERING DETAILS ONLY

APPROX. SCALE: 1"=100'
REFER TO DRAWINGS FOR ALL APPROX. POINTS
VERTICAL CURVATURE COORDINATE APPROX. M.F.
RELATIVE TO STATE PL. POINTS 14 15 16

10 16.9/46.2,50.1 31 153

Joseph A. Kwak
REGISTERED ELECTRICAL ENGINEER

8-31-92
PLANS APPROVAL DATE

NATIONAL FLOWERING TECHNOLOGY
16710 VALLEY VIEW AVE., SUITE 100
LA MIRADA, CA 90638
IN ASSOCIATION WITH
EBASCO SERVICES INCORPORATED
KATZ, DUKES & ASSOCIATES
WAGNER ENGINEERING & SURVEY, INC.
CONTROL DESIGN SYSTEMS

DATE REVISION BY
5/92 JK 3/23 DATE REVISION

CALCULATED BY
DESIGNED BY

CHECKED BY

DESIGN OVER
GLORIA GWYNNE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

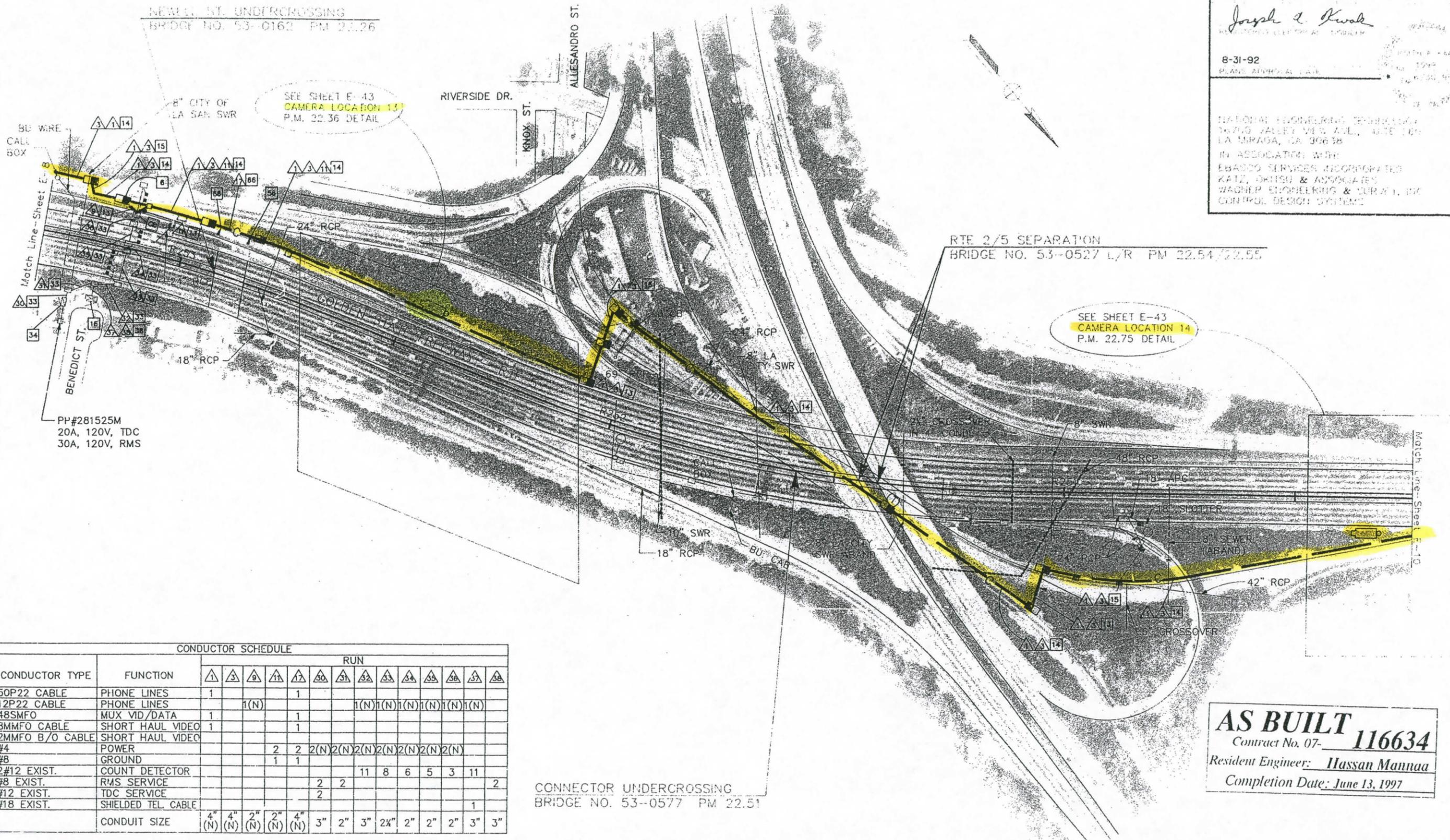
11663E09.DWG 09/14/92

Caltrans

NEW ST. UNDERCROSSING
BRIDGE NO. 53-0162 PM 22.26

RTE 2/5 SEPARATION
BRIDGE NO. 53-0527 L/R PM 22.54/22.55

CONNECTOR UNDERCROSSING
BRIDGE NO. 53-0577 PM 22.51



SEE SHEET E-43
CAMERA LOCATION 13
P.M. 22.36 DETAIL

SEE SHEET E-43
CAMERA LOCATION 14
P.M. 22.75 DETAIL

CONDUCTOR TYPE	FUNCTION	CONDUCTOR SCHEDULE													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
50P22 CABLE	PHONE LINES	1													
12P22 CABLE	PHONE LINES			1(N)								1(N)	1(N)	1(N)	1(N)
48SMFO	MUX VID/DATA	1				1						1(N)	1(N)	1(N)	1(N)
8MMFO CABLE	SHORT HAUL VIDEO	1				1									
2MMFO B/O CABLE	SHORT HAUL VIDEO														
#4	POWER				2	2	2(N)	2(N)	2(N)	2(N)	2(N)	2(N)	2(N)	2(N)	2(N)
#8	GROUND			1	1										
2#12 EXIST.	COUNT DETECTOR									11	8	6	5	3	11
#8 EXIST.	RMS SERVICE							2	2						2
#12 EXIST.	TDC SERVICE							2							
#18 EXIST.	SHIELDED TEL. CABLE														1
	CONDUIT SIZE	4" (N)	4" (N)	2" (N)	2" (N)	4" (N)	3"	2"	3"	2 1/2"	2"	2"	2"	3"	3"

AS BUILT
Contract No. 07-116634
Resident Engineer: *Hassan Mannaa*
Completion Date: June 13, 1997

APPROX. SCALE: 1"=100'
REFERENCE GRADUATIONS ARE AT APPROX. 500' INTERVALS
REFERENCE CALIBRATION INDICATE APPROXIMATE
RELATIVE DISTANCE IN THOUSANDS OF FEET.

FOR LEGEND AND PROJECT NOTES SEE SHEET E-1

NOTE: FOR COMPLETE R/W AND ACCURATE
ACCESS DATA, SEE R/W RECORD MAPS
AT THE DISTRICT OFFICE.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONFLICTING UTILITIES ONLY

**CCTV AND COMMUNICATIONS SYSTEM
(LAYOUT)**

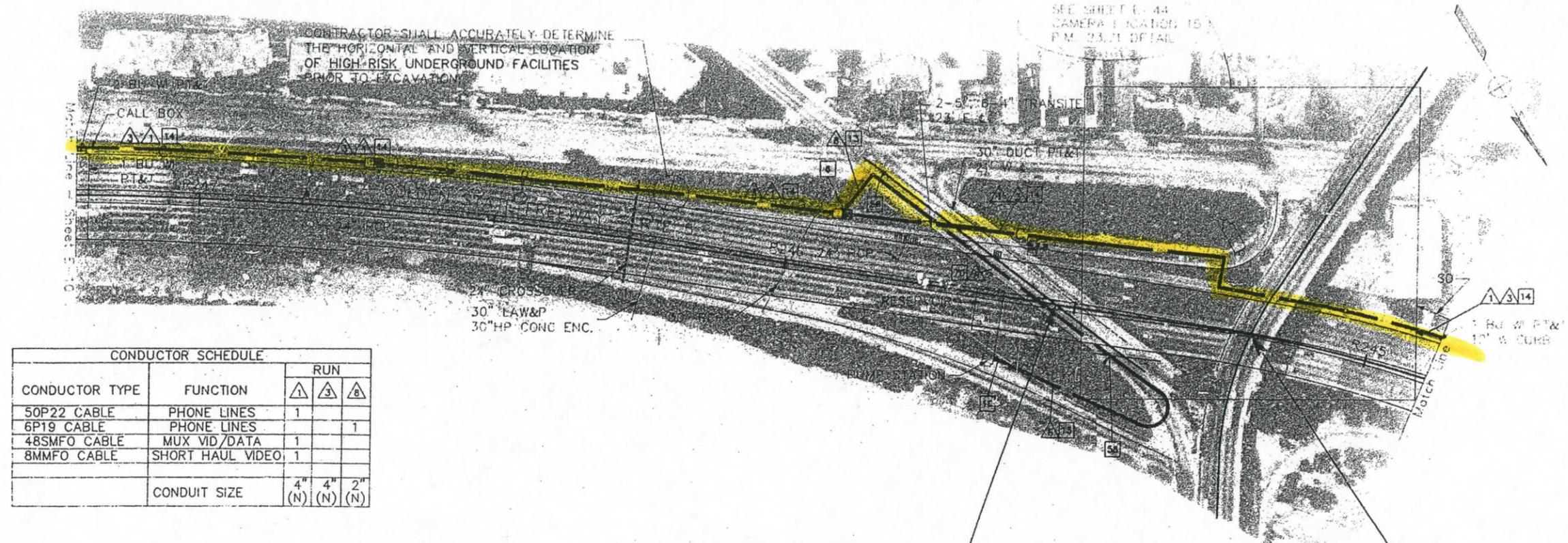
Joseph A. Kwak

8-31-92

NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION
 INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS
 LOCAL UNION NO. 1000
 1000 BROADWAY
 NEW YORK, N.Y. 10018
 (212) 512-2000
 FAX: (212) 512-2001
 RAGNER ENGINEERING & CONSULTANTS
 CONTROL SYSTEMS

SEE SHEET E-44
 CAMERA LOCATION: 15
 P.M. 23.21 DETAIL

CONTRACTOR SHALL ACCURATELY DETERMINE
 THE HORIZONTAL AND VERTICAL LOCATION
 OF HIGH-RISK UNDERGROUND FACILITIES
 PRIOR TO EXCAVATION



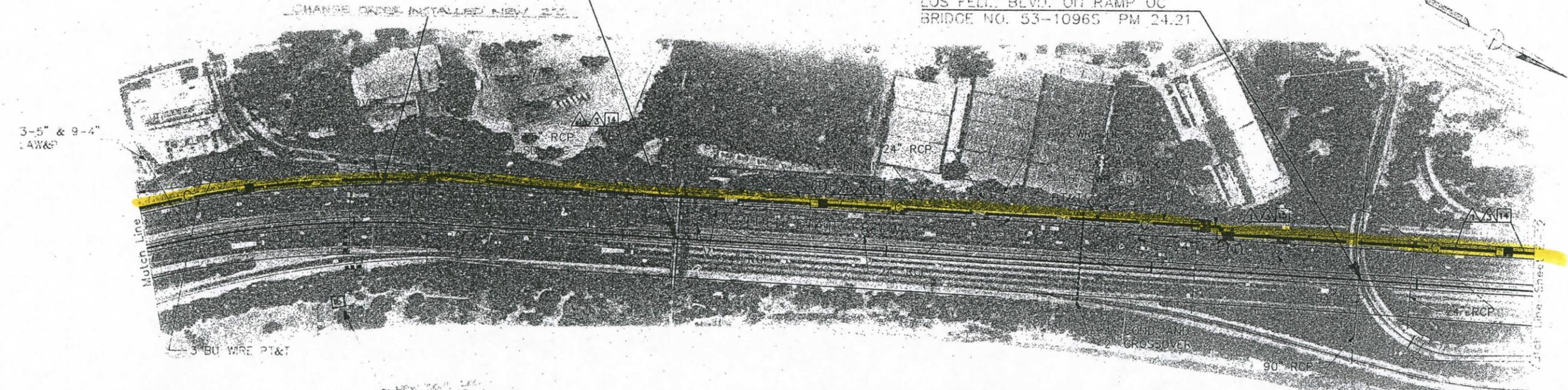
CONDUCTOR SCHEDULE				
CONDUCTOR TYPE	FUNCTION	RUN		
		1	3	8
50P22 CABLE	PHONE LINES	1		
6P19 CABLE	PHONE LINES			1
48SMFO CABLE	MUX VID/DATA	1		
8MMFO CABLE	SHORT HAUL VIDEO	1		
	CONDUIT SIZE	4" (N)	4" (N)	2" (N)

LENDALE BLVD. OVERCROSSING
 BRIDGE NO. 53-1068 PM 23.66

HYPERION AVE. VIADUCT
 BRIDGE NO. 53-1069 PM 23.72

GRIFFITH PARK PED. OVERCROSSING
 BRIDGE NO. 53-1183 PM 23.97

LOS FELIZ BLVD. OFF RAMP OC
 BRIDGE NO. 53-10965 PM 24.21



AS BUILT
 Contract No. 07-116634
 Resident Engineer: Hassan Mannaa
 Completion Date: June 13, 1997

APPROX. SCALE: 1"=100'
 REFERENCE GRADATIONS ARE AT APPROX. 50' ELEVATION
 REFERENCE GRADATIONS WILL BE APPROXIMATE
 RELATED DISTANCES IN THOUSANDS OF FEET.

**CCTV AND COMMUNICATIONS SYSTEM
 (LAYOUT)**

CALCULATED DATE REVISION BY
 DESIGNED BY
 CHECKED BY JK 3/23 DATE REVISION 5/92

DESIGN OVER
 GLORIA GWYNNE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans

FOR SIGN AND PROJECT NOTES SEE SHEET E-4

NOTE: FOR COMPLETE R.W. AND ACCURATE
 ADDRESS DATA, SEE R.W. RECORD MAPS
 AT THE DISTRICT OFFICE.

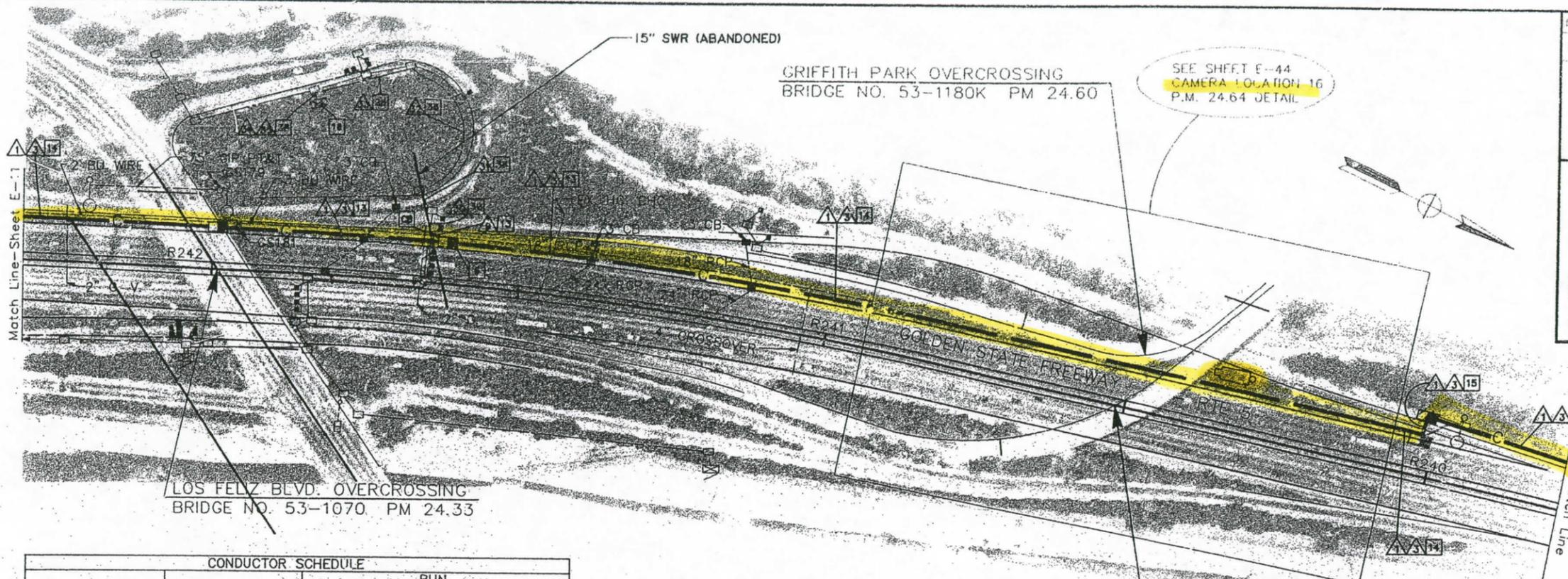
NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONFLICTING UTILITIES ONLY

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	510	16.9/46.2,50.1	34	153

Joseph A. Kwak
REGISTERED ELECTRICAL ENGINEER

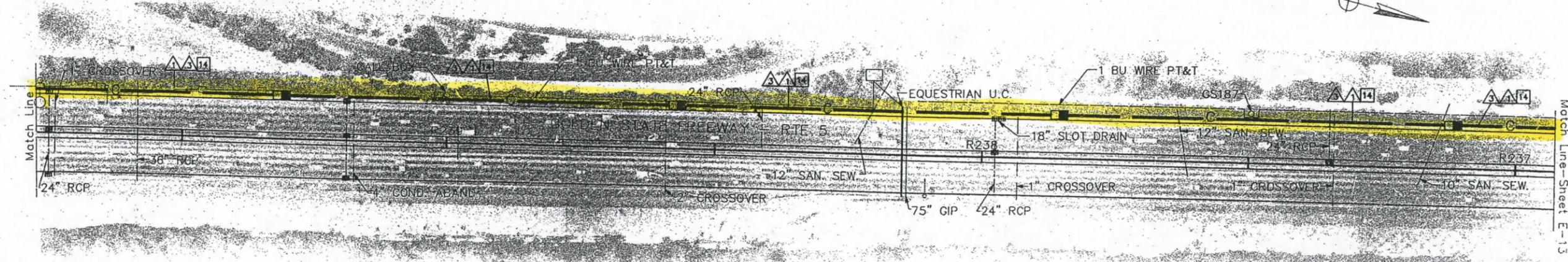
8-31-92
PLANS APPROVAL DATE

NATIONAL ENGINEERING TECHNOLOGY
16700 VALLEY VIEW AVE., SUITE 260
LA MIRADA, CA 90830
IN ASSOCIATION WITH:
EBASCO SERVICES INCORPORATED
KATZ, OKITSU & ASSOCIATES
WAGNER ENGINEERING & SURVEY, INC.
CONTROL DESIGN SYSTEMS



CONDUCTOR SCHEDULE		RUN									
CONDUCTOR TYPE	FUNCTION	1	2	3	4	5	6	7	8	9	10
50P22 CABLE	PHONE LINES	1									
12P22 CABLE	PHONE LINES		1	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)
48SMFO CABLE	MUX VID/DATA	1									
8MMFO CABLE	SHORT HAUL VIDEO	1									
#14 EXIST.	RAMP SIGNAL										3
#14 EXIST.	METER ON										1
#14 EXIST.	SPARES										4
2#12 EXIST.	COUNT DETECTOR				5	6	8	9	9		
2#12 EXIST.	RAMP DETECTOR									3	
#10 EXIST.	COMMON										2
#8 EXIST.	SERVICE										2
4#18 EXIST.	SHIELDED TEL CABLE				2	3	3	3	3	3	
	CONDUIT SIZE	4" (N)	4" (N)	2" (N)	2"	2"	2"	2"	2"	2"	2"

ALL CONDUITS AND CONDUCTORS ARE EXISTING UNLESS OTHERWISE NOTED.



APPROX. SCALE: 1"=100'

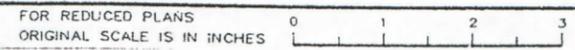
REFERENCE GRADUATIONS ARE AT APPROX. 500' INTERVALS.
REFERENCE CALIBRATIONS INDICATE APPROXIMATE
RELATIVE DISTANCE IN THOUSANDS OF FEET.

FOR LEGEND AND PROJECT NOTES SEE SHEET E-1

NOTE: FOR COMPLETE R/W AND ACCURATE
ACCESS DATA, SEE R/W RECORD MAPS
AT THE DISTRICT OFFICE.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONFLICTING UTILITIES ONLY

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT) E-12



DATE REVISION BY
3/23/92 JK
DATE REVISION BY
3/23/92 JK

DESIGN BY: GLORIA GWYNNE

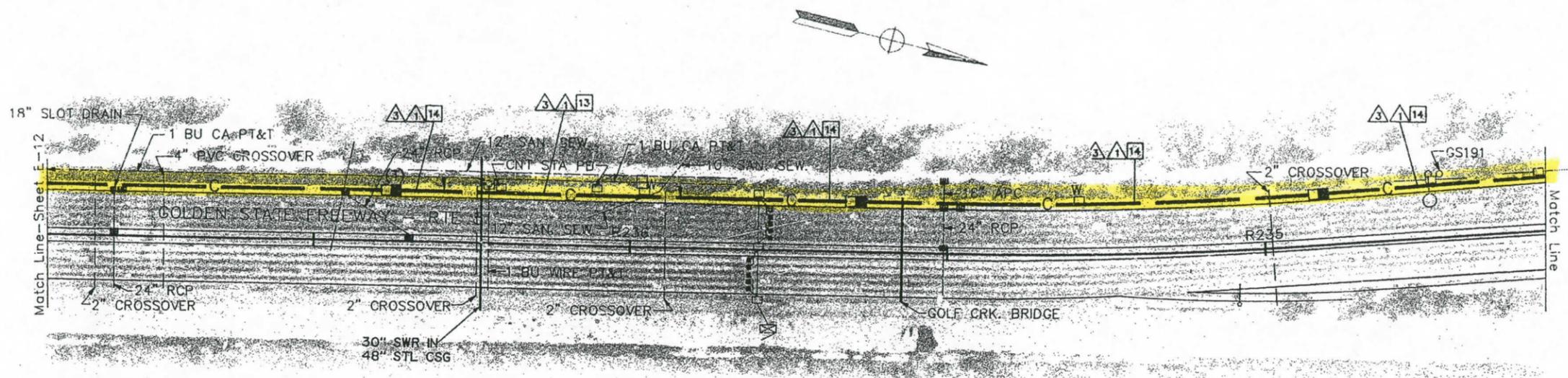
STAT. CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,10	16.9/46.2,50.1	35	153

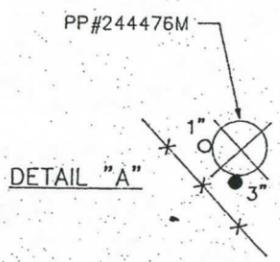
Joseph A. Kwak
REGISTERED ELECTRICAL ENGINEER
8-31-92
PLANS APPROVAL DATE

PROFESSIONAL ENGINEER
JOSEPH A. KWAK
No. 1J991
Exp. 6/30/95
STATE OF CALIFORNIA

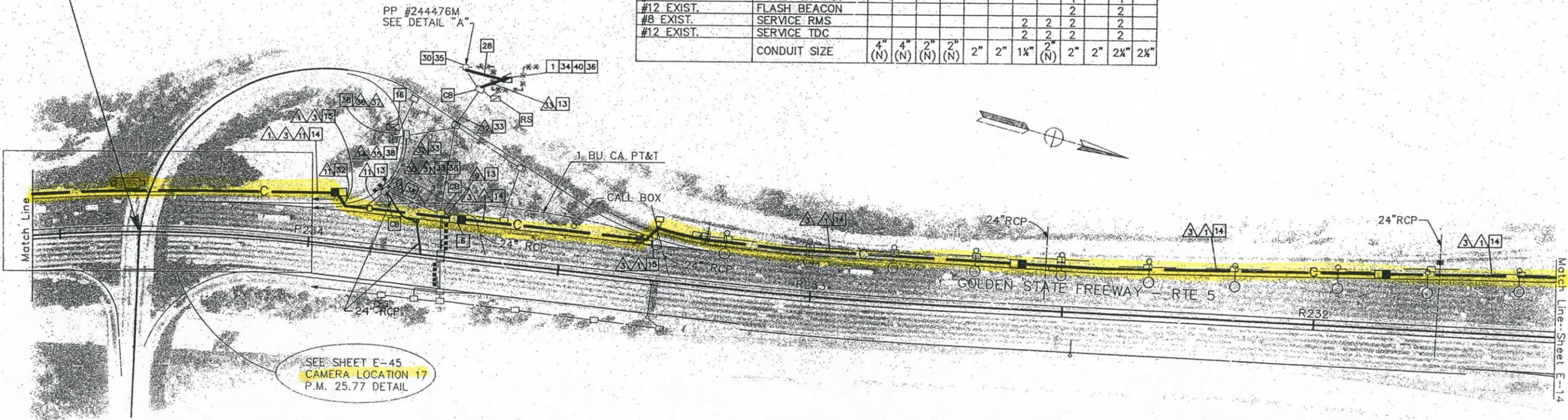
NATIONAL ENGINEERING TECHNOLOGY
16700 VALLEY VIEW AVE., SUITE 260
LA MIRADA, CA 90638
IN ASSOCIATION WITH:
EBASCO SERVICES INCORPORATED
KATZ, OKITSU & ASSOCIATES
WAGNER ENGINEERING & SURVEY, INC.
CONTROL DESIGN SYSTEMS



CONDUCTOR TYPE	FUNCTION	CONDUCTOR SCHEDULE													
		RUN													
50P22 CABLE	PHONE LINES	1													
12P22 CABLE	PHONE LINES				1(N)								1(N)	1(N)	
48SMFO CABLE	MUX VID/DATA	1													
8MMFO CABLE	SHORT HAUL VIDEO	1													
#4	POWER				2	2(N)	2(N)	2							
#8	GROUND				1										
DLC EXIST.	DETECTOR LOOP CAB.				5	2				2	5		7		
4#18 EXIST.	SHIELD TELEPHONE CABLE				1						1		1		
#14 EXIST.	RAMP METER					3				3			3		
#14 EXIST.	SPARES					3				4			4		
#10 EXIST.	SIGNAL COMMON					1				1			1		
#14 EXIST.	METER ON IND.									1			1		
#12 EXIST.	FLASH BEACON									2			2		
#8 EXIST.	SERVICE RMS									2	2		2		
#12 EXIST.	SERVICE TDC									2	2		2		
	CONDUIT SIZE	4" (N)	4" (N)	2" (N)	2" (N)	2"	2"	1 1/2"	2" (N)	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"



COLORADO BL. ON/OFF RAMP
BRIDGE NO. 53-1073E PM 25.77



SEE SHEET E-45
CAMERA LOCATION 17
P.M. 25.77 DETAIL

AS BUILT 116634
Contract No. 07-
Resident Engineer: Hassan Mannaa
Completion Date: June 13, 1997

APPROX. SCALE: 1"=100'
REFERENCE GRADUATIONS ARE AT APPROX. 500' INTERVALS
REFERENCE CALIBRATIONS INDICATE APPROXIMATE
RELATIVE DISTANCE IN THOUSANDS OF FEET.

**CCTV AND COMMUNICATIONS SYSTEM
(LAYOUT)**

REVISOR: JK
DATE: 3/23/92
REVISION: DATE REVISED

DESIGN OVER: JHT
DESIGNED BY: GLORIA GWYNNE
CHECKED BY: JK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
116634.13.DWG
03/16/92

FOR LEGEND AND PROJECT NOTES SEE SHEET E-1

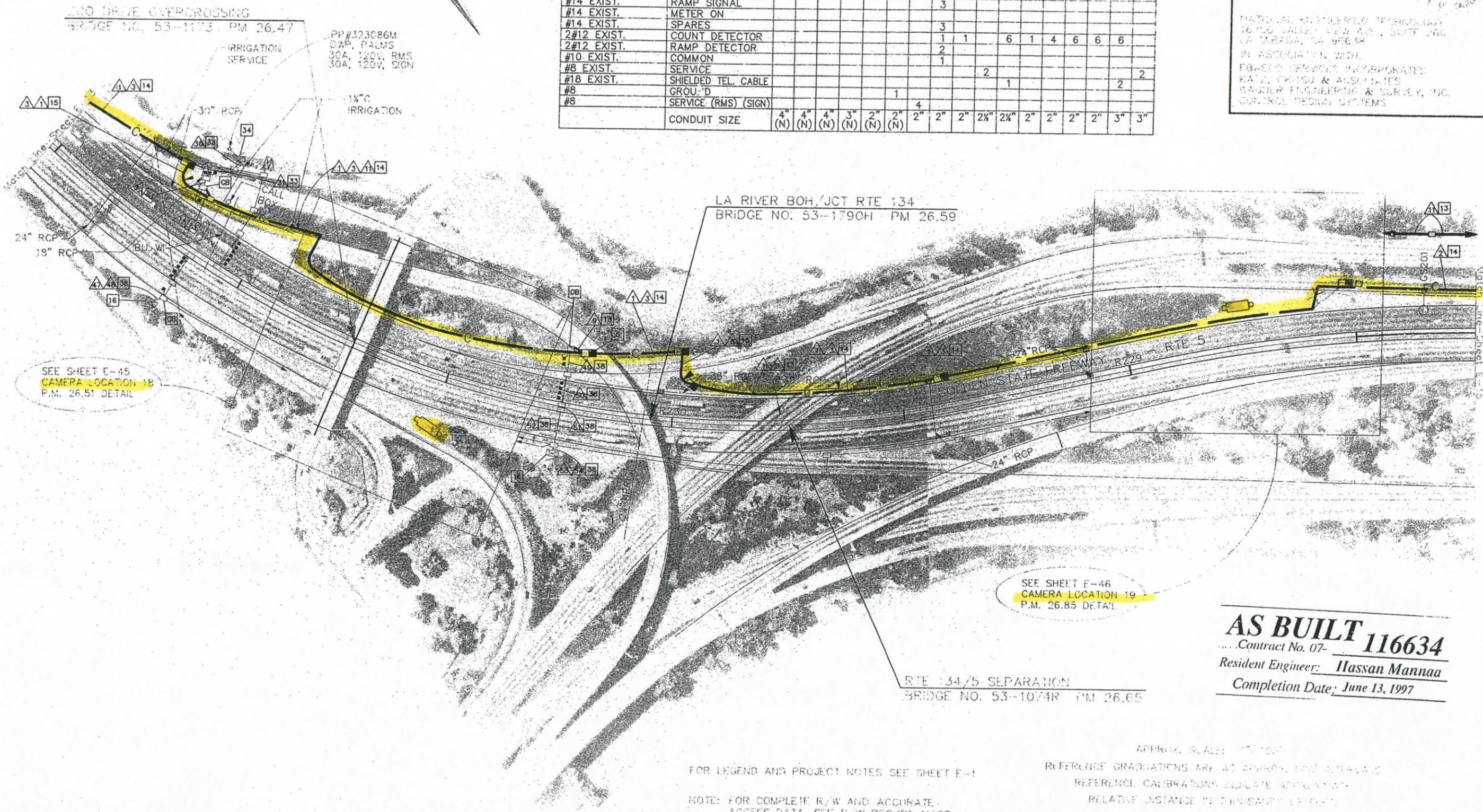
NOTE: FOR COMPLETE R/W AND ACCURATE
ACCESS DATA, SEE R/W RECORD MAPS
AT THE DISTRICT OFFICE.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONFLICTING UTILITIES ONLY

116634.DWG 05/15/92
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT
 CHECKED BY JK 3/23 DATE REISED 5/2
 DESIGNED BY
 CALCULATED BY
 DATE REISED BY
 GLORIA GWYNE

CONDUCTOR TYPE	FUNCTION	CONDUCTOR SCHEDULE															
		RUN															
24SMFO CABLE	MUX VID/DATA	1	1														
50P22 CABLE	PHONE LINES	1	1														
12P22 CABLE	PHONE LINES																
48SMFO CABLE	MUX VID/DATA	1															
2MMFO B/O CABLE	SHORT HAUL VIDEO				1	1											
8MMFO CABLE	SHORT HAUL VIDEO	1	1														
#4	POWER																
#14 EXIST.	RAMP SIGNAL								2	2(N)	2(N)	2(N)					
#14 EXIST.	METER ON																
#14 EXIST.	SPARES																
2#12 EXIST.	COUNT DETECTOR																
2#12 EXIST.	RAMP DETECTOR																
#10 EXIST.	COMMON																
#8 EXIST.	SERVICE																
#18 EXIST.	SHIELDED TEL. CABLE																
#8	GROU-D																
#8	SERVICE (RMS) (SIGN)																
	CONDUIT SIZE	4" (N)	4" (N)	4" (N)	3" (N)	2" (N)	3" (N)										

5,10 16.9/46.2,S0.1 36 153
Joseph A. Kwak
 8-31-92
 NATIONAL ENGINEERING TECHNOLOGY
 16750 VALLEY VIEW AVENUE, SUITE 260
 VAN NUYS, CA 91411
 IN ASSOCIATION WITH
 FBASCO SERVICES INCORPORATED
 KATZ, CRUSS & ASSOCIATES
 HANSEN ENGINEERING & SURVEY, INC.
 CONTROL SYSTEMS



SEE SHEET E-45
CAMERA LOCATION 18
P.M. 26.51 DETAIL

SEE SHEET E-46
CAMERA LOCATION 19
P.M. 26.85 DETAIL

AS BUILT 116634
 Contract No. 07-
 Resident Engineer: *Hassan Mannaa*
 Completion Date: June 13, 1997

FOR LEGEND AND PROJECT NOTES SEE SHEET E-1
 NOTE: FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.

APPROX. SCALE: 1" = 100'
 REFERENCE GRADATIONS ARE AT APPROX. 100' INTERVALS
 REFERENCE CALIBRATIONS INDICATE APPROXIMATE
 RELATIVE DISTANCE TO DIVISION OFFICE

**CCTV AND COMMUNICATIONS SYSTEM
 (LAYOUT)**

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONFLICTING UTILITIES ONLY

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	510	16.9/46.2, S.O.1	37	153

Joseph A. Kwak
REGISTERED ELECTRICAL ENGINEER

8-31-92
PLANS APPROVAL DATE

PROFESSIONAL ENGINEER
JOSEPH A. KWAK
No. 10991
Exp. 6/30/95
STATE OF CALIFORNIA

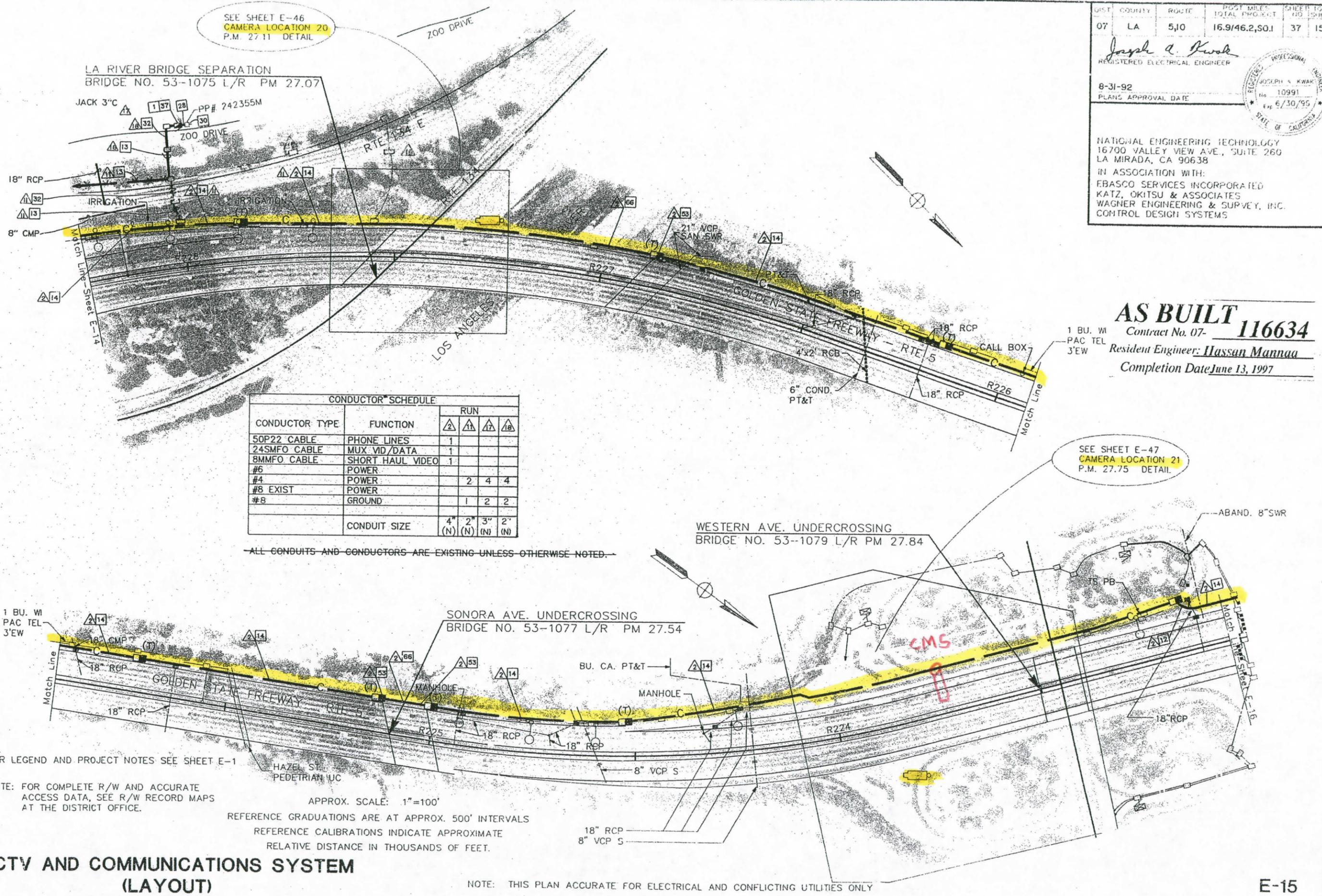
NATIONAL ENGINEERING TECHNOLOGY
16700 VALLEY VIEW AVE., SUITE 260
LA MIRADA, CA 90638

IN ASSOCIATION WITH:
EBASCO SERVICES INCORPORATED
KATZ, OKITSU & ASSOCIATES
WAGNER ENGINEERING & SURVEY, INC.
CONTROL DESIGN SYSTEMS

AS BUILT 116634
Contract No. 07-116634
Resident Engineer: Hassan Mannaa
Completion Date June 13, 1997

SEE SHEET E-46
CAMERA LOCATION 20
P.M. 27.11 DETAIL

SEE SHEET E-47
CAMERA LOCATION 21
P.M. 27.75 DETAIL



CONDUCTOR SCHEDULE		RUN			
CONDUCTOR TYPE	FUNCTION	1	2	3	4
50P22 CABLE	PHONE LINES	1			
24SMFO CABLE	MUX VID/DATA	1			
8MMFO CABLE	SHORT HAUL VIDEO	1			
#6	POWER				
#4	POWER	2	4	4	
#8 EXIST	POWER				
#8	GROUND	1	2	2	
	CONDUIT SIZE	4" (N)	2" (N)	3" (N)	2" (N)

ALL CONDUITS AND CONDUCTORS ARE EXISTING UNLESS OTHERWISE NOTED.

FOR LEGEND AND PROJECT NOTES SEE SHEET E-1

NOTE: FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.

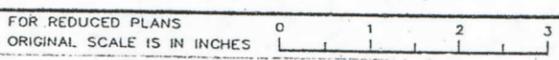
APPROX. SCALE: 1"=100'

REFERENCE GRADUATIONS ARE AT APPROX. 500' INTERVALS

REFERENCE CALIBRATIONS INDICATE APPROXIMATE RELATIVE DISTANCE IN THOUSANDS OF FEET.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONFLICTING UTILITIES ONLY

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)



DATE REVISION BY
3/23 JK
DATE REVISION BY
JK

DESIGN OVERSIGHT
GLORIA GWYNE

CALIFORNIA DEPARTMENT OF TRANSPORTATION
STAT. 11663E15.DWG

07 LA 5,10 16.9/46.2,CO.I 38 153

Joseph A. Kwak
REGISTERED PROFESSIONAL ENGINEER

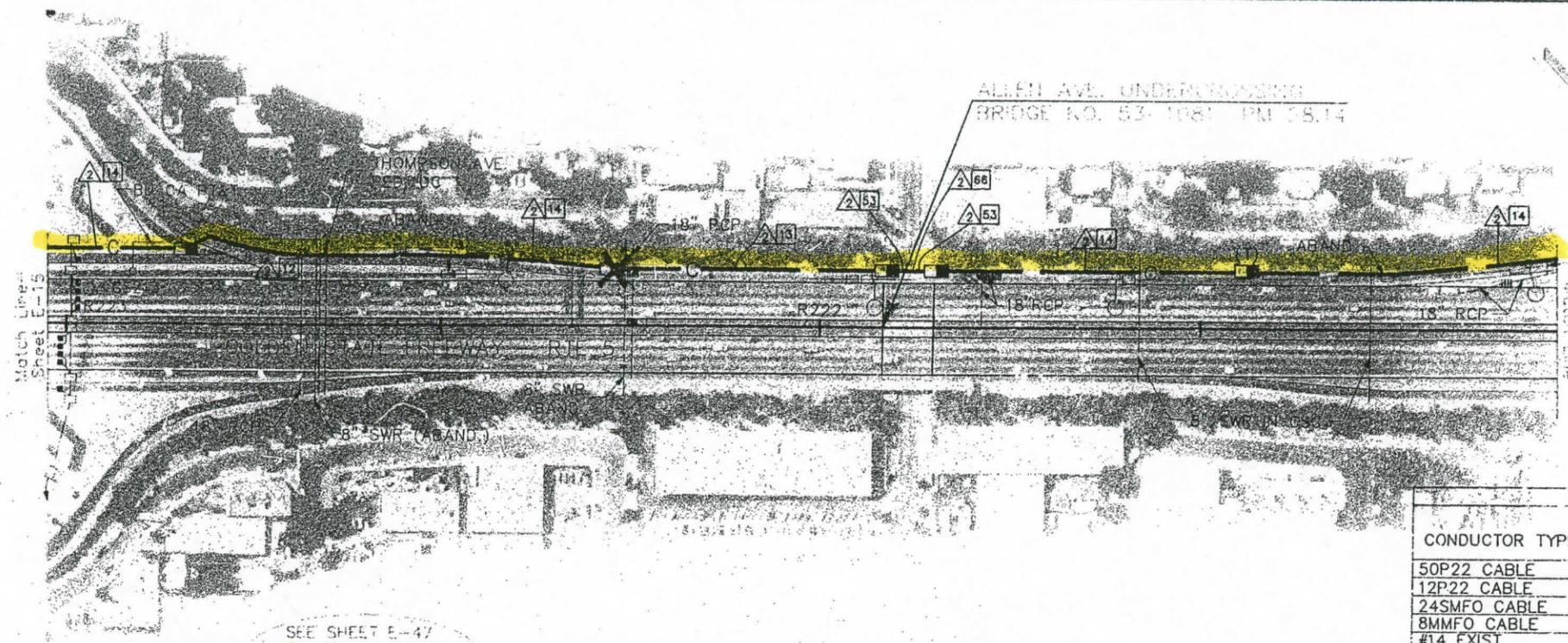
8-31-92
PLATE APPROVAL DATE

NATIONAL ENGINEERS' TECHNICAL CENTER
10100 VALLEY VIEW AVENUE, SUITE 200
LA MIRADA, CA 90638
IN ASSOCIATION WITH
ELECTRIC SERVICES CORPORATION
WATER SYSTEMS & ASSOCIATES
WASHER ENGINEERING & SUPPLY, INC.
CONTROL DESIGN SYSTEMS

DESIGNED BY: JK
CHECKED BY: JK
DATE REVISION: 7/92
DATE REVISION: 7/92

DESIGN OVERSIGHT
GLORIA GWYNNE

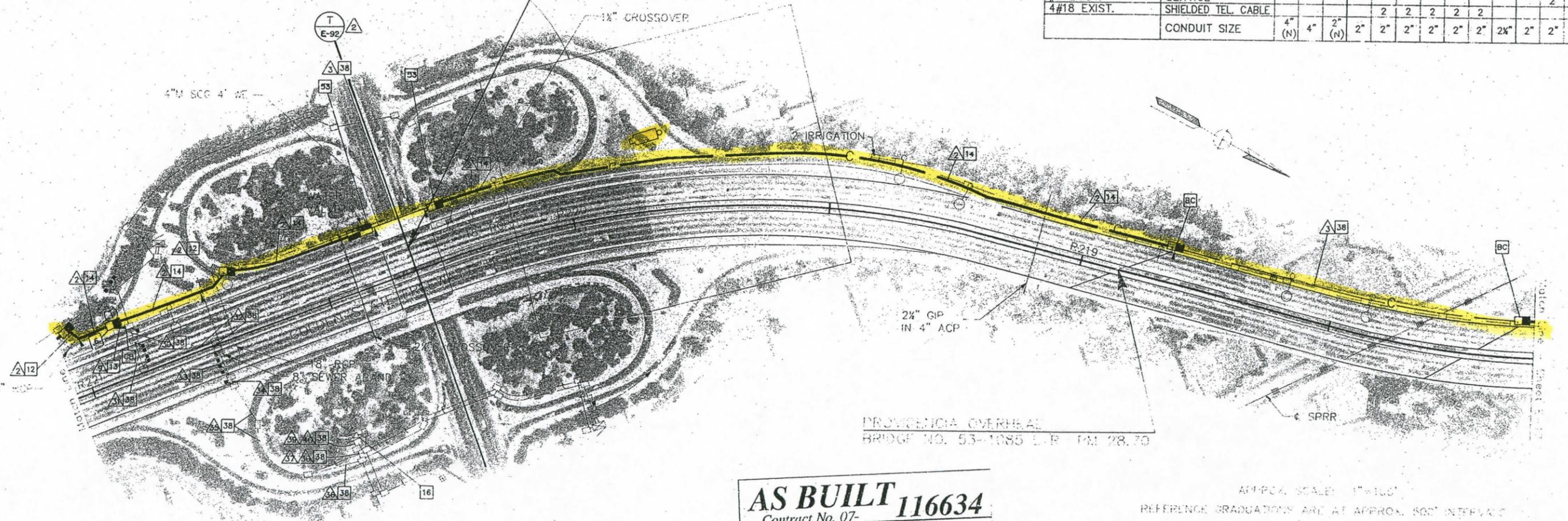
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CALTRANS



SEE SHEET E-47
CAMERA LOCATION: 22
P.M. 28.57 DETAIL

ALAMEDA AVE. UNDERCROSSING
BRIDGE NO. 53-1082 L/R PM 28.43

CONDUCTOR TYPE	FUNCTION	CONDUCTOR SCHEDULE													
		2	3	9	30	31	32	33	34	35	36	37	38	39	40
50P22 CABLE	PHONE LINES	1	1(N)												
12P22 CABLE	PHONE LINES			1	1(N)										
24SMFO CABLE	MUX VID/DATA	1	1(N)												
8MMFO CABLE	SHORT HAUL VIDEO	1	1(N)												
#14 EXIST.	RAMP SIGNAL											3	3	3	
#14 EXIST.	SPARES											3	3	3	
2#12 EXIST.	DETECTOR LOOP				4	2		2	4	5	8	8	8	8	
#10 EXIST.	COMMON										1		1	1	
#8 EXIST.	SERVICE											2		2	
4#18 EXIST.	SHIELDED TEL. CABLE						2	2	2	2	2				
	CONDUIT SIZE	4" (N)	4"	2" (N)	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"



PROVICENCIA OVERHEAD
BRIDGE NO. 53-1085 L/R PM 28.70

AS BUILT 116634
Contract No. 07-
Resident Engineer: *Hassan Mamour*
Completion Date: June 13, 1997

AS-BUILT SCALE: 1"=100'
REFERENCE GRADUATIONS ARE AT APPROX. 500' INTERVALS
REFERENCE CALIBRATIONS INDICATE APPROXIMATE
RELATIVE DISTANCE IN THOUSANDS OF FEET.

**CCTV AND COMMUNICATIONS SYSTEM
(LAYOUT)**

FOR LAYOUT AND PROJECT NOISE SEE SHEET E-1
NOTE: FOR DESIGN AND ACCURATE
PROJECT DATA, REFER TO RECORD MAPS
AT THE DISTRICT OFFICE.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND COMMUNICATING UTILITIES ONLY

FOR REDUCED PLANS

Joseph A. Kwak

8-31-92

NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION
 1030 VALLEY BLVD. 4TH FLOOR
 LA MEAD, CA 90648
 IN ASSOCIATION WITH
 EBARD SCHMIDT ENGINEERS
 KATE, M. ITO & ASSOCIATES
 WATER ENGINEERS & SURVEYORS
 CONTROL DESIGN SYSTEMS

SEE SHEET E-48
 CAMERA LOCATION 23
 PM 28.92

VERDUGO AVE. UNDERCROSSING
 BRIDGE NO. 53-1086 PM 28.92

OLIVE AVE. OVERCROSSING
 BRIDGE NO. 53-1087 PM 29.16

MAGNOLIA BLVD. OVERCROSSING
 BRIDGE NO. 53-1088 PM 29.39

BURBANK BLVD. OVERCROSSING
 BRIDGE NO. 53-1089 PM 29.78

SEE SHEET E-48
 CAMERA LOCATION 24
 PM 29.75

CONDUCTOR TYPE	FUNCTION	CONDUCTOR SCHEDULE															
		2	9	11	20	22	23	24	25	26	27	28	29	30	31	32	33
50P22 CABLE	PHONE LINES	1															
6P19 CABLE	PHONE LINES															1(N)	
12P22 CABLE	PHONE LINES		1														
24SMFO CABLE	MUX VID/DATA	1							1(N)								
8MMFO CABLE	SHORT HAUL VIDEO	1														1(N)	
#4	POWER				2	4(N)	4(N)	4(N)	4(N)							1(N)	
#8	GROUND				1										4	1(N)	
#14 EXIST.	RAMP SIGNAL				3				6	6				3	3	6	
#14 EXIST.	SPARES				3	3								3	3		
2#12 EXIST.	COUNT DETECTOR				7	4	4	8	12	12	12	4	4	2	4	4	
2#12 EXIST.	RAMP DETECTOR				2									2	2		
#10 EXIST.	COMMON				1	1			1	1				1	1	1	
#8 EXIST.	SERVICE				2								2			2	
	CONDUIT SIZE	4" (N)	2" (N)	2" (N)	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	4"	

INSTALL 2-15A 240V CIRCUIT BREAKERS FOR CCTV AND DATA

TO EXISTING 120V SERVICE FEED POINT ON LAKE ST. SOUTH OF BURBANK BL. BURBANK BL., OVERHEAD PP# 18449B. BURBANK 2-40A, 120V, RMS

DATE: 3/23/92
 CALCULATED BY: JK
 DESIGNED BY: JK
 CHECKED BY: JK

DESIGN BY: GLORIA G. VINE

ALABAMA DEPARTMENT OF TRANSPORTATION

STATE OF ALABAMA

NOTE: THIS PLAN IS QUANTITATIVE FOR ELECTRICAL AND COMMUNICATIONS UTILITIES ONLY.
 FOR REPRODUCED PLANS

APPROX. SCALE: 1"=100'
 REFERENCE GRADUATIONS ARE AT APPROX. 500' INTERVALS.
 REFERENCE CALIBRATIONS INDICATE APPROXIMATE RELATIVE DISTANCE IN THOUSANDS OF FEET.

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

AS BUILT 116634
 Contract No. 07-
 Resident Engineer: Hassan Mannaa
 Completion Date: June 13, 1997