

MEETING DATE: 11/07/11

**AGENDA ITEM: A Joint City Council/and Agency Board: Discussion
Regarding Dynamic Message Signs for the Downtown Real
Time Motorist Information System Project.**

ATTACHMENTS

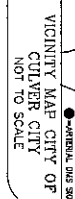
<u>Item</u>	<u>Description</u>	<u>Pages</u>
1.	Project schedule	1
2.	Proposed DMS & PGS location map	2 - 8
3.	DMS pole and sign plan examples	9 - 11
4.	Skyline Products DMS sign photo examples	12 – 15
5.	PGS sign examples	16 - 18

Project Schedule: Culver City

	Months			
	1	2	3	4
Task 1: General Services				
Task 2: Preparation of Bid Documents				
SEMP Framework				
Systems Engineering Documentation - Concept of Operations, Requirements, Test Plan				
Bid Documents				

ATTACHMENT 1

 KHA Effort



TILE SHEET	SHEET
PARKING GARAGE SIGNS	
WATSKY AVENUE AT OLIVER BOULEVARD	SHEET 2
CAMPBELL AVENUE AT WASHINGTON BOULEVARD	SHEET 3
OLIVE BOULEVARD AT OLIVER BOULEVARD AND WASHINGTON BOULEVARD	SHEET 4
DYNAMIC MESSAGE SIGNS	

LOCATION OF PARKING GUIDANCE DYNAMIC MESSAGE SIGNS (TMS)

LOCATION OF ARTERIAL C&S

SHEET NUMBER



**Kimley-Horn
and Associates, Inc.**

301 KIMLEY-HORN AND ASSOCIATES, INC.
8800 Chermack Avenue, Suite 410
Los Angeles, California 90033 (818) 227-2790

PLAN PREPARED BY: **Kimley-Horn and Associates, Inc.**

TITLE SHEET

ISSUED BY:	DATE:	SIC AND I.C.	PROJECT #:	SHEET
W/PROJ	1/2/79	9100		
DATE OF	1/2/79	TYPE OF DESIGN		
THIS SHEET	1/2/79			
DATE AND ADDRESS		DATE AND ADDRESS		
DESIGNED BY: Kimley-Horn and Associates, Inc. CHECKED BY: Kimley-Horn and Associates, Inc. APPROVED BY: Kimley-Horn and Associates, Inc.				
Plan No. _____				

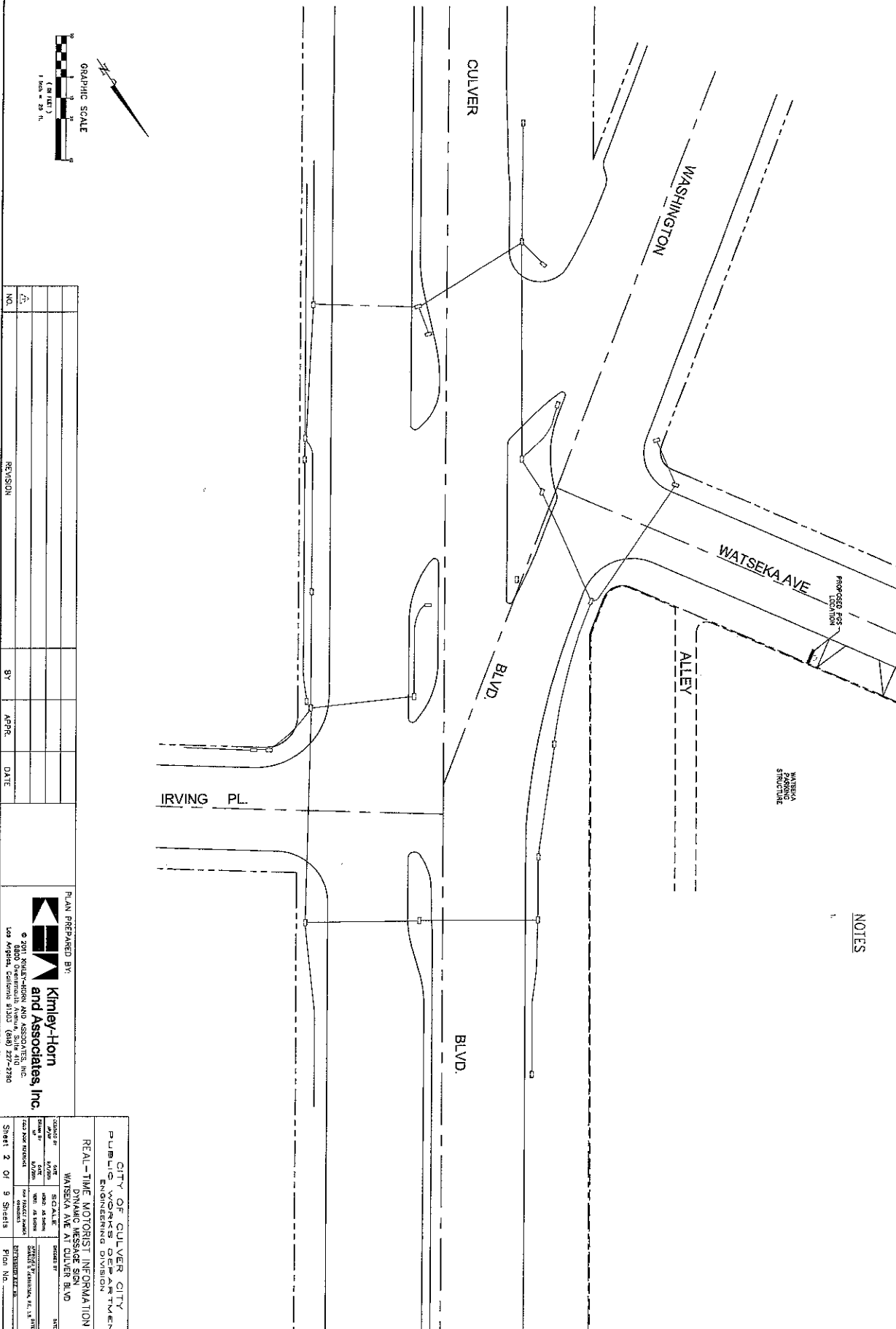
Sheet 1 of 3 Sheets
PLAN NO. _____

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY SEARCH OF THE AVAILABLE RECORDS, TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

<u>COMPANY</u>	<u>CONTACT</u>	<u>PHONE NO.</u>
----------------	----------------	------------------

UNDERGROUND SERVICE ALERT	1-800-227-2689
SOUTHERN CALIFORNIA GAS COMPANY	(310) 891-2010
SOUTHERN CALIFORNIA WATER COMPANY	(310) 835-2144
CHUCK DELBELLO	
JIM REED	
JACK HERNIM	(310) 515-2271
ALBERT LEVIAN	(310) 564-4442
JAMES BURETT	(714) 763-1177
LOREN LAMERT	(818) 373-5960
HAMID FAKHRAH	(310) 367-5559
EURY BEBA	(310) 218-3658
GORD WILSON	(714) 289-0065
GORDON DELACELMAN	(714) 229-1530
TERI SHAWNE	(310) 212-1764
JACK STANISH	(323) 278-7534

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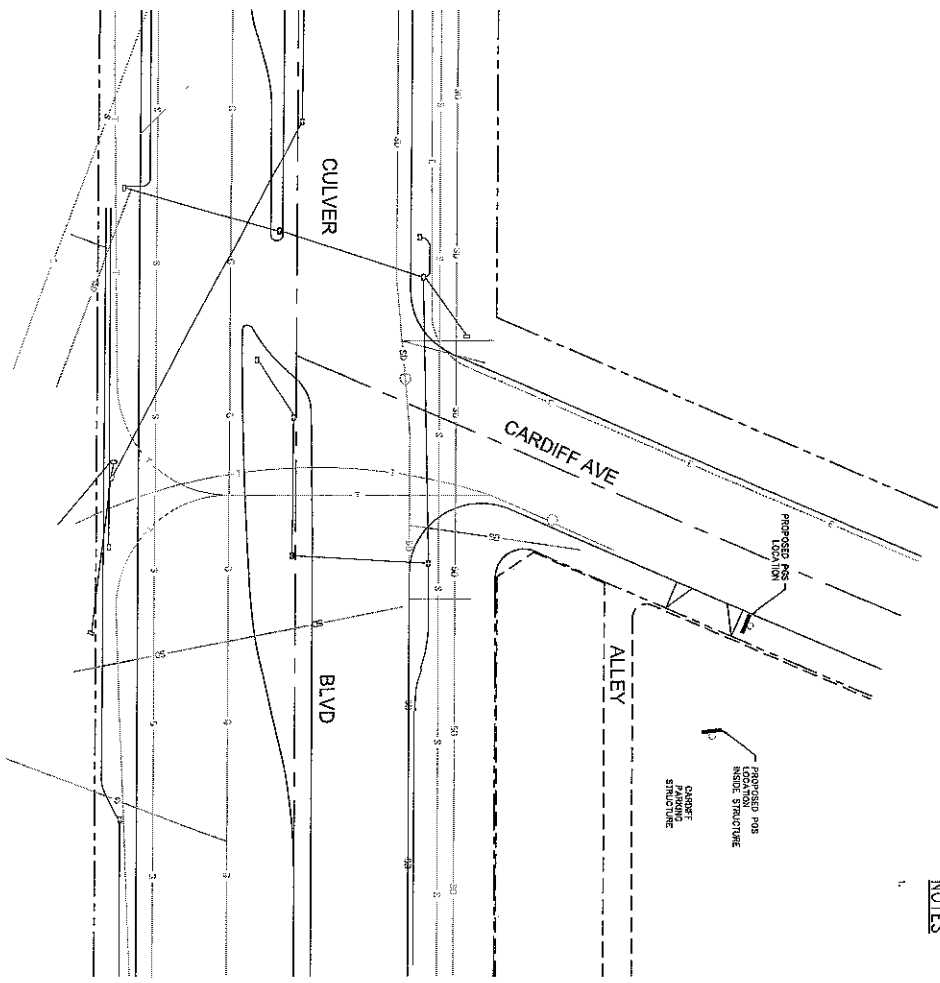
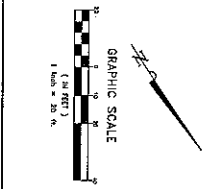
PLAN PREPARED BY:



**Klimley-Horn
and Associates, Inc.**

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8000 DOWNTOWN AVENUE, SUITE 410
LOS ANGELES, CALIFORNIA 91203 (618) 227-2750

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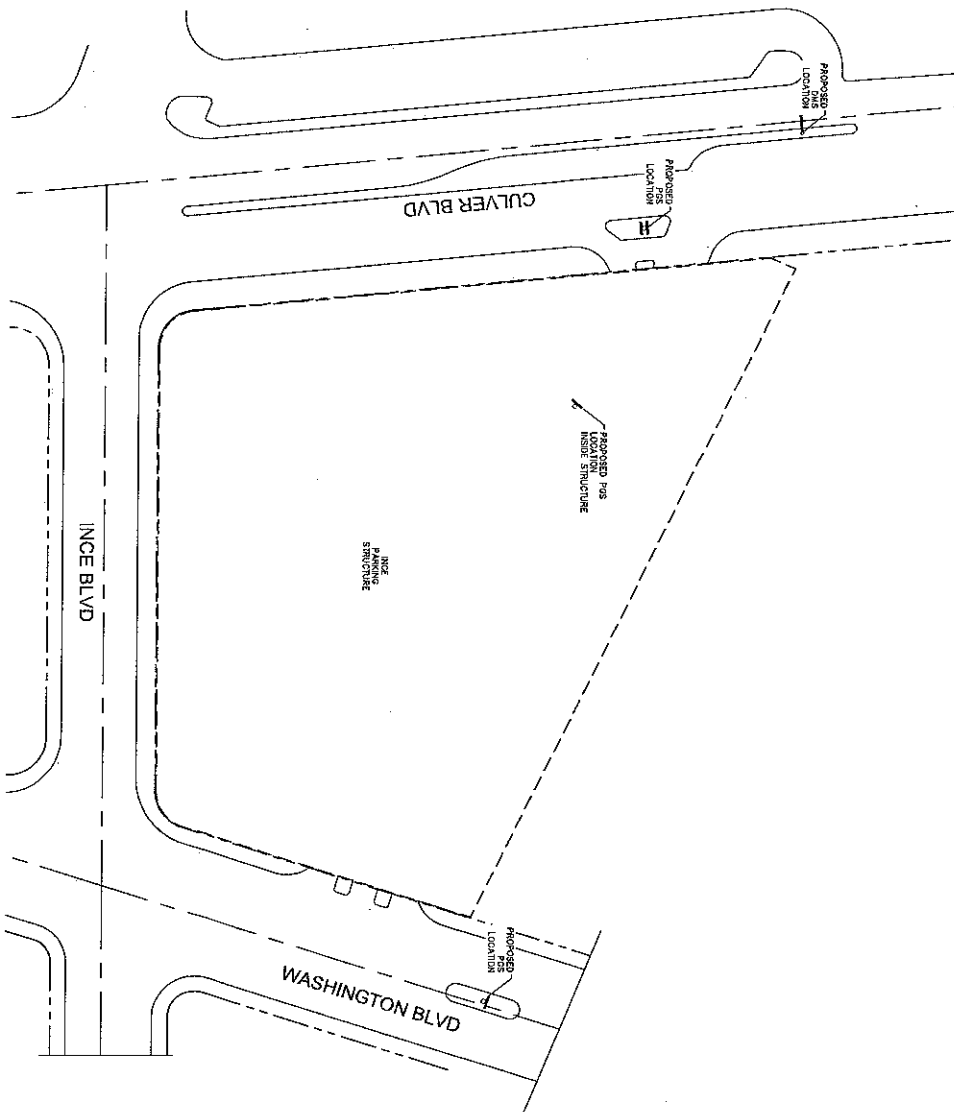
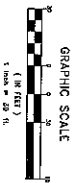
NOTES

NO.	REVISION	BY	DATE

PLAN PREPARED BY:
Kimley-Horn and Associates, Inc.
4800 CHESTERFIELD AVENUE, SUITE 400
LOS ANGELES, CALIFORNIA 90045 (310) 227-2700

CITY OF CULVER CITY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	
REAL-TIME MOTORIST INFORMATION DYNAMIC MESSAGE SIGN CULVER BLVD AT WASHINGTON BLVD	
Scale: 1" = 30'	Scale: 1" = 30'
Drawn by: [blank]	Checked by: [blank]
Field Book Number: [blank]	Project Number: [blank]
Sheet 3 of 9 Sheets	Plan No. [blank]

NOTES



NO.	REVISION	BY	APPR.	DATE

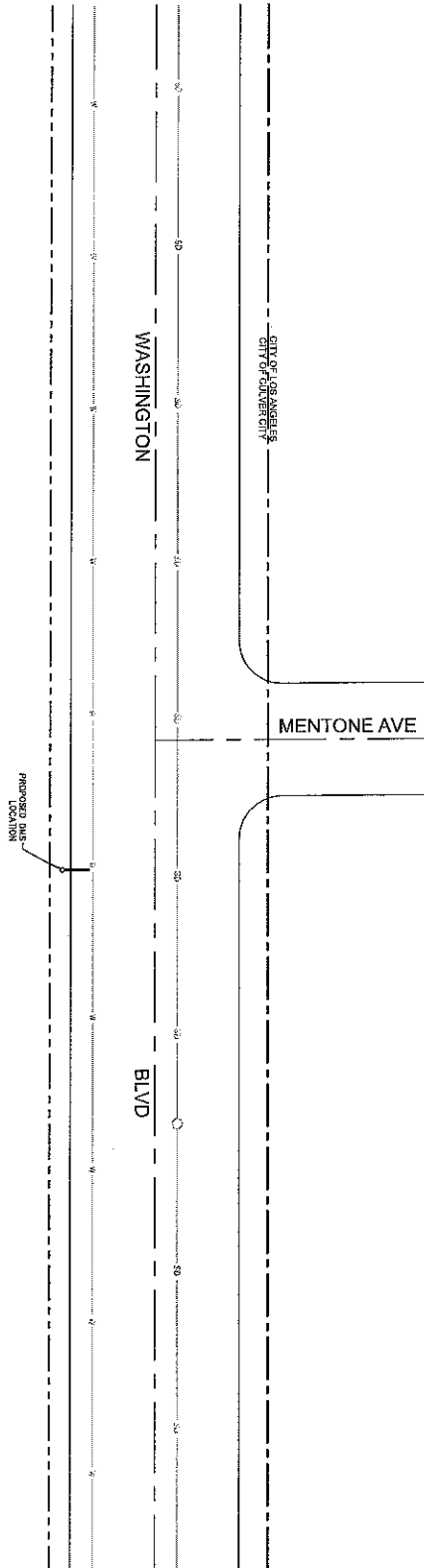
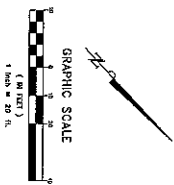
PLAN PREPARED BY:

Kimley-Horn and Associates, Inc.
 8500 Oremington Avenue, Suite 110
 Los Angeles, California 90033 (818) 227-2700

CITY OF CULVER CITY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION			
REAL-TIME MOTORIST INFORMATION DYNAMIC MESSAGE SIGN INCE BLVD AT CULVER BLVD AND WASHINGTON BLVD			
DESIGNED BY DATE SCALE	DRAWN BY DATE SCALE	CHECKED BY DATE SCALE	APPROVED BY DATE SCALE
SHEET 4 OF 9 SHEETS			PLAN NO.

5

NOTES

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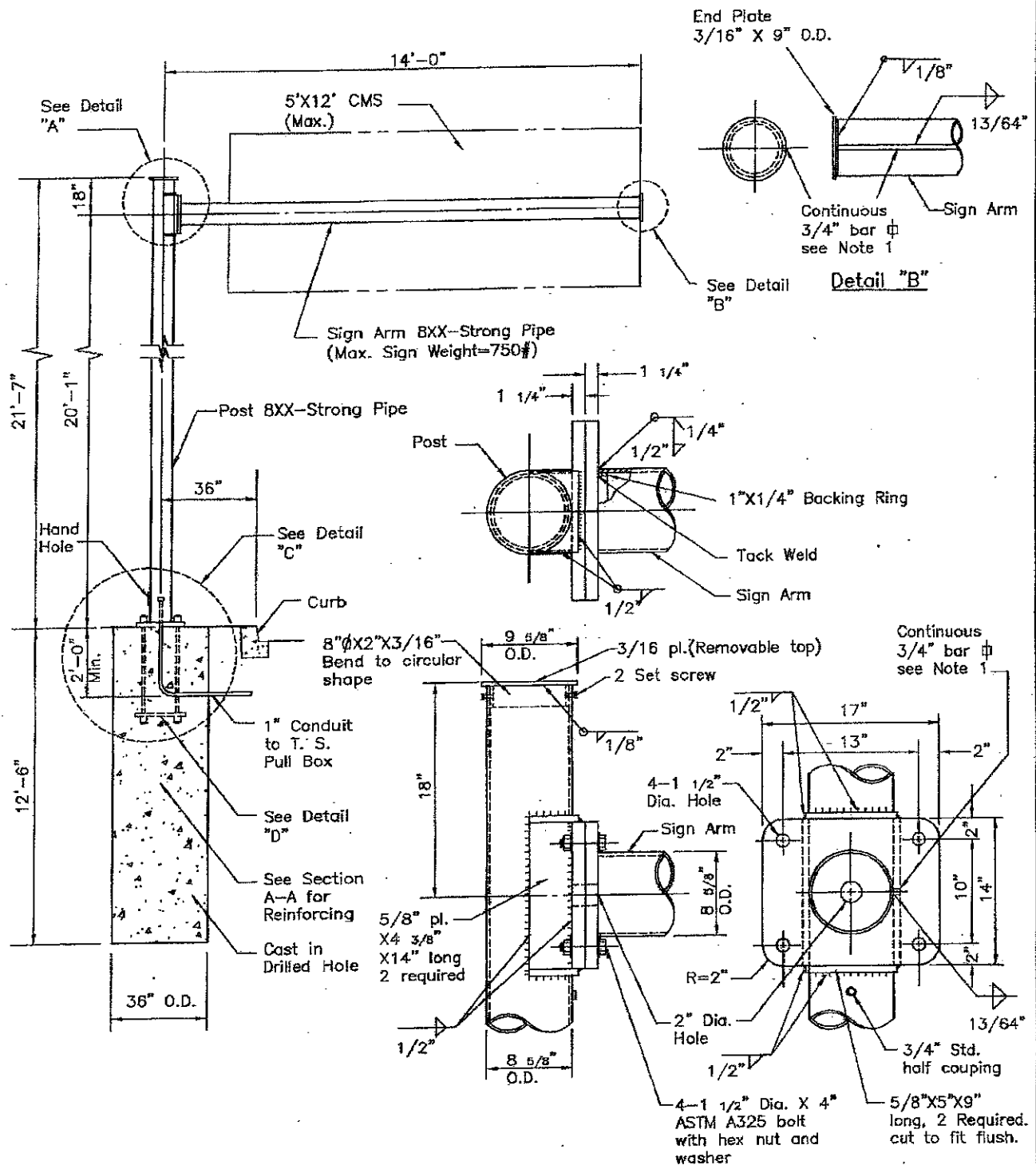
PLAN PREPARED BY:

 **Kimley-Horn
and Associates, Inc.**

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8800 O'Leary Avenue, Suite 100
Los Angeles, California 90045 (310) 227-2790

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ATTACHMENT 3



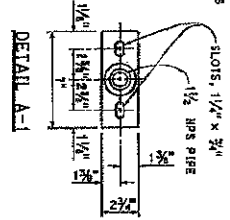
DWN	MT	11-03-05	Title
CKD			14' Cantilever Changeable Message Sign $\frac{1}{2}$
T. E.			
Sr. T. E.	88	12-9-05	CITY OF LOS ANGELES
Pr. T. E.			DEPARTMENT OF TRANSPORTATION
Approved December 9, 2005			Drawing No.
John E. Fisher			S-92.4
Frances T. Banerjee, Interim General Manager			

Approved on 11-21-05
Structural Engineering Division, BOE
by Peter Chiu

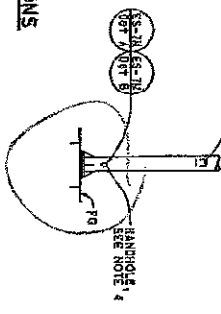
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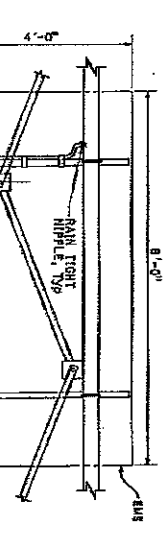
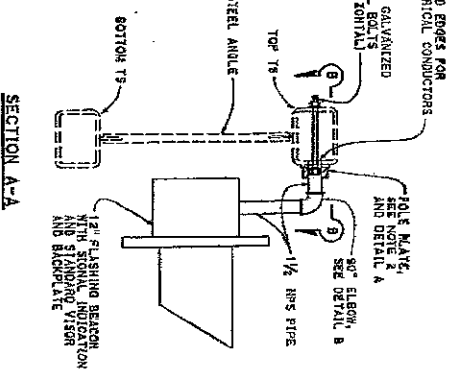
- NOTES:
1. Pole plate shall be bronze or galvanized steel.
 2. Pole plate shall be 1/2" thick.
 3. Wind loading (1-second gust) 100 mph.
 4. Handhole shall be located on the downstream side of traffic.



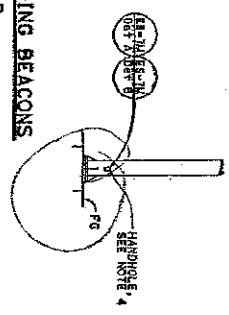
TOP VIEW
SECTION B-B
POLE PLATE
DETAIL A



90° ELBOW
DETAIL B



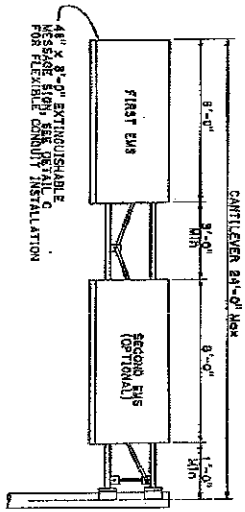
FLEXIBLE CONDUIT INSTALLATION
DETAIL C



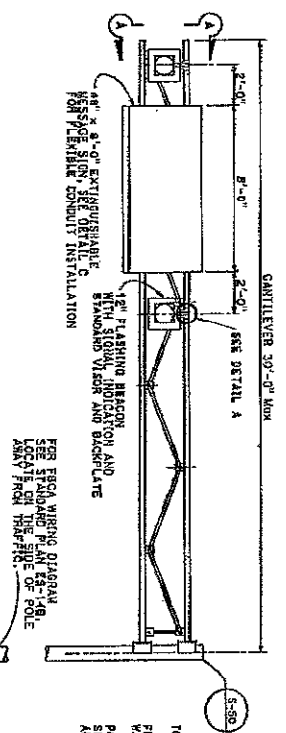
ELECTRICAL SYSTEMS
(EXTINGUISHABLE MESSAGE
SIGN ON A FULL CANTILEVER)
NO SCALE

ES-14C

EMS WITHOUT FLASHING BEACONS
ELEVATION B



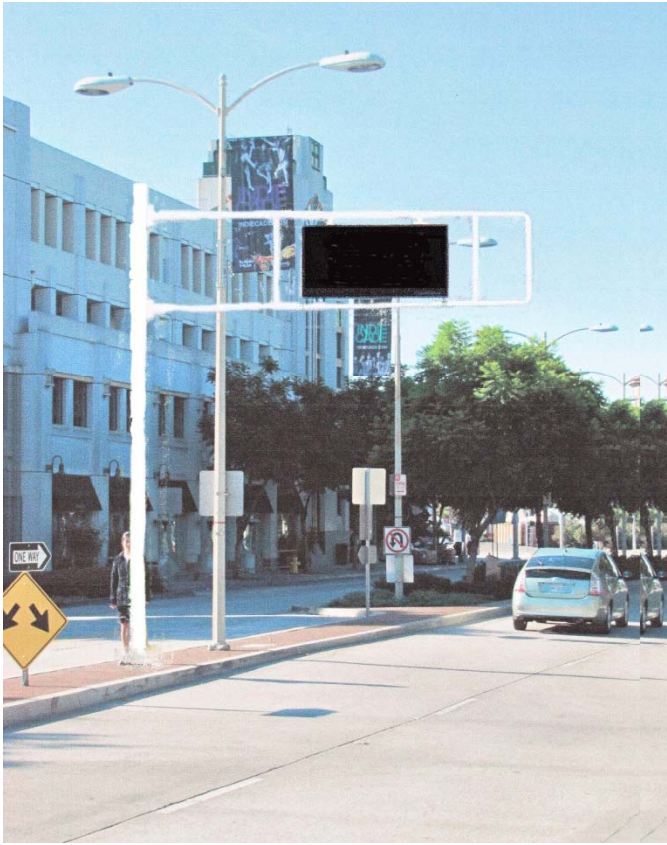
EMS WITH FLASHING BEACONS
ELEVATION A



Washington and Warner



Culver at Ince Structure



Washington and Mentone



Culver and Jasmine



PGS Signs: Watseka



PGS Signs: Cardiff



PGS Signs: Ince

