DEPARTMENT OF BUILDING & SAFETY
CITY OF BEAUMONT
BEAUMONT, CALIFORNIA

WHITE — CUSTOMER COPY
BLUE — FILE COPY
CANARY — ENVELOPE COPY
PINK — ASSESSOR COPY
MANILA — INSPECTION COPY

CONSTRUCTION ESTIMATE

1ST FL.		SQ. FT. @	
2ND FL.		SQ. FT. @	
POR.		SQ. FT. @	
GAR.		SQ. FT. @	
CAR P.		SQ. FT. @	
WALL		SQ. FT. @	
Sign Structure		SQ. FT. @	50,000

ESTIMATED VALUATION $

MECHANICAL FEES

	VENT SYSTEM ☐ FAN ☐ EVAP. COOL ☐ HOOD		
	APPLIANCE		
	FURNACE ☐ UNIT ☐ WALL ☐ FLOOR ☐ SUSPENDED		
	AIR HANDLING UNIT		
	GAS PIPE ☐ NATURAL ☐ L.P.G. ☐ OIL		
	APPLIANCE VENT		
	HEATING SYSTEM ☐ FORCED ☐ GRAVITY		
	PERMIT FEE		
	TOTAL		

E.I.R. FEE

ELECTRICAL FEES

NO			
	POLES		
	SIGNS		
	MOTOR H.P.		
	MOTOR H.P.		
	MOTOR H.P.		
	MOTOR H.P.		
	MOTOR H.P.		
	FIXTURES		
	OUTLETS		
	SUB-PANEL		
	Misc	11	–
	RANGE AND/OR OVEN		
	WATER HEATER		
	SPACE HEATER		
	CONSTRUCTION POLE		
	SERVICE ENTRANCE	15	50
	RESID 3½¢ SQ. FT.		
	PERMIT FEE	25	–
	TOTAL	53	50

PLUMBING FEES

NO.			
	LATERAL CONNECTION		
	DRAINAGE PIPING		
	DRINKING FOUNTAIN		
	URINAL		
	WATER PIPING		
	FLOOR DRAIN		
	WATER SOFTENER		
	WASHER (AUTO) (DISH)		
	GARBAGE DISPOSAL		
	LAUNDRY TRAY		
	KITCHEN SINK		
	WATER CLOSET		
	LAVATORY		
	SHOWER		
	BATH TUB		
	WATER HEATER		
	SEWAGE DISPOSAL		
	HOUSE SEWER		
	GAS PIPING		
	PERMIT FEE		
	TOTAL		

LANDSCAPE 1200-7750	
9300-8660 SEWER CONNECT FEE	
1200-8502 PLAN CHECK FEE	285.00
1200-7750 MECHANICAL FEE	
1200-7750 CONSTRUCTION FEE	429.00
1200-7750 ELECTRICAL FEE	53.50
1200-7750 PLUMBING FEE	
9350-8521 SIGNALIZATION	
1200-7750 GRADING	
1200-7740 INVESTIGATION	
1200-8502 S.M.I.P.	10.50
1200-8502 G.P.F.	
9350-8520 B.S.F.F.	

USE ZONE

FIRE ZONE

CHECKED BY

GROUP | TYPE

SPEC. INSP.

PLAN CHECKED

JOB ADDRESS: 503 [illegible]

OWNER: [illegible]

USE OF BUILDING: Sign Structure

VALUATION: 50,000

LEGAL DESCRIPTION

DATE: 12-16-97

SUPP. TO PERMIT

BOND $	BOND	CASH	FILE NO.	FINAL DATE	INSPECTOR/APPROVAL
				10-14-99	K[illegible]

THIS PERMIT SHALL BECOME VOID IF WORK IS NOT COMMENCED WITHIN 180 DAYS. CESSATION OF WORK FOR 180 DAYS SHALL ALSO CAUSE PERMIT TO BECOME VOID.

I HEREBY AGREE THAT ALL WORK IN CONNECTION WITH THIS PERMIT WILL BE DONE IN ACCORDANCE WITH THE ORDINANCES OF THE CITY OF BEAUMONT AND THE STATE OF CALIFORNIA. I ALSO AGREE TO CARRY COMPENSATION INSURANCE UPON MY EMPLOYEES. COMPLIANCE WITH LAWS OF THE STATE OF CALIFORNIA COVERING CONTRACTORS IS ALSO GUARANTEED.

CONTRACTOR	OWNER
Quality Outdoor Ads	Jim Elmore
ADDRESS: 2702 N. P[illegible] Rd. Orange, CA 92865	ADDRESS: 2702 N (Same)
LICENSE NO.: CA 741982	7231
TEL. NO.: 714-637-9495	TEL. NO.

TOTAL FEES $ 876

CASH | CHECK ✗ | M.O. | N.C.

RECEIVED BY # 876 KH

BMT-34 (Rev 1/96)

INFORMATION

INSPECTION RECORD

ADDRESS _____

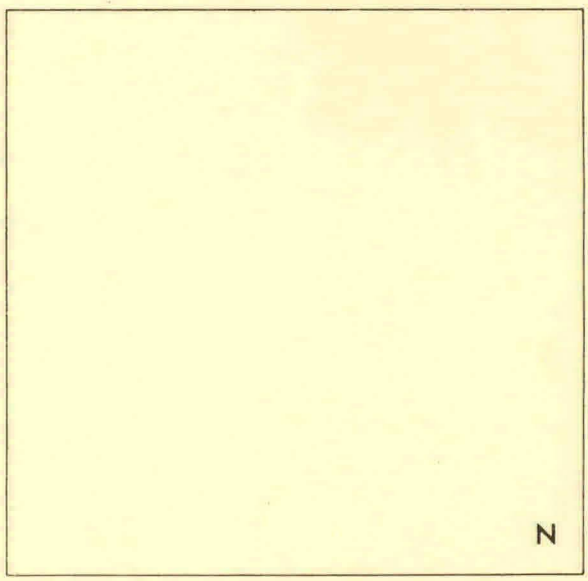
REASON _____

_____

NO.	OPERATION	DATE	INSPECTOR
	STRUCTURAL		
1	Set Back		
2	FTGS & FRMS	3-16-98	ZKM
3	Steel		
4	Grout Blocks		
5	Bond Beams		
6	Roof Deck		
7	Framing		
8	Insulation		
9	Garage Fire Wall		
10	Fireplace P/L ☐ T/O ☐		
11	Exterior Lath		
12	Internal Lath		
13	Exterior Grade		
14	Shear Wall		
15			
16			
17	FINAL		
	ELECTRICAL		
18	Power Pole		
19	Conduit		
20	Service Entrance	2-1-99	KM
21	Wiring		
22	Fixtures		
23	Service		
24			
25			
26			
27	FINAL		

OP N NO.	PROGRESS CHECKS

NO.	OPERATION	DATE	INSPECTOR
	MECHANICAL		
28	Ventilation System		
29	Plenums & Ducts		
30	Furnace Compart.		
31	Inlets & Outlets		
32	Combustion Air		
33	Compressor		
34	Appl. Clearance		
35	Fire Damper		
36	Smoke Detention Device		
37	Commercial Hood		
38			
39			
40	FINAL		
	PLUMBING		
41	Ground Plumb		
42	Water		
43	Rough Plumb		
44	Vents		
45	Septic Tank		
46	Sewer		
47	Water Heater		
48	Copper		
49	Water Service		
50	Gas Test		
51			
52			
53			
54	Final		



Structural Design of 64ft x 54ft Sign

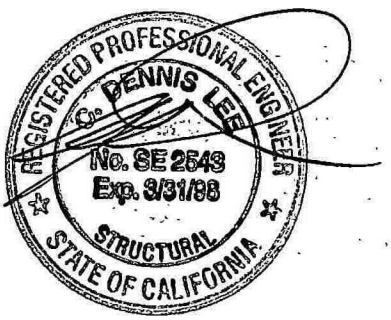
at

City of Beaumont

for

Quality Outdoor Advertising, Inc.

November 17, 1997



DEC 05 1997

LEEDCO ENGINEERS

STRUCTURES • FOUNDATION • GEOTECHNICAL

9440 Telstar Ave., Suite #5, El Monte, CA 91731

(818) 448-7870 Fax: (818)448-3955

LEEDCO ENGINEERS

STRUCTURAL - GEOTECHNICAL - ENVIRONMENTAL-TRANSPORTATION

SIGNATURE

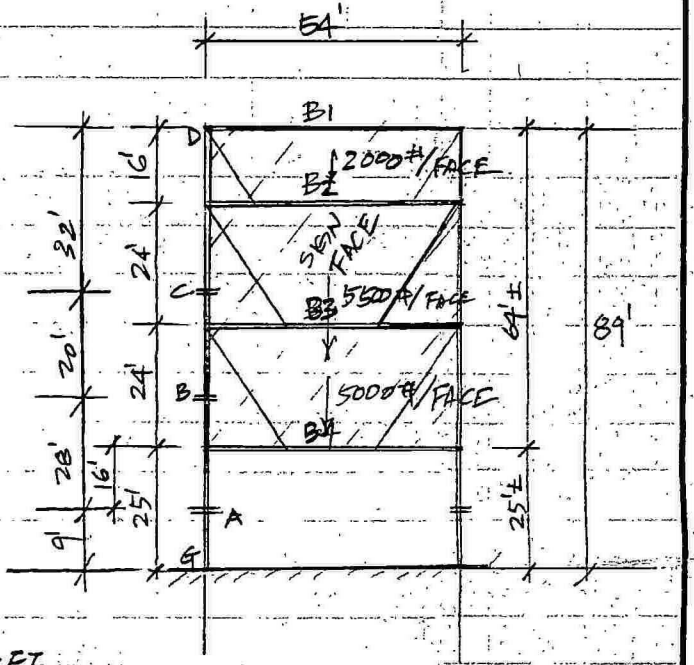
PROJECT STRUCTURAL DESIGN OF 64'x54' SIGN FOR QUALITY OUTDOOR SIGN CO.

DATE 11-17-97 LICENSE # SE 2543

STRUCTURAL DESIGN FOR 2 POST SIGN

SIGN SIZE : 64' HIGH x 54' WIDE

O.A.H. = 89'



SIGN LOCATION : CITY OF BEAUMONT

DESIGN WIND SPEED = 80 mph Exp "C"

$p = C_e C_q q_s \cdot I$

$= 16.4 \times 1.57 \times 1.4 \times 1.0$

$= 36$ PSF

$P = 54 \times 64 \times 36 = 124.42$ kips

MOMENT @ G.L. / COLUMN

$M_G = \frac{124.42^K}{2} \times (25+32') = 3545.98$ Kip-FT

$S_{REQ} = \frac{3545.8 \times 12}{35 \times 0.66 \times 1.333} = 1382 in^3$

USE 48"ϕ x 0.875" THK WALL ($S = 1,499 in^3$) OR

54"ϕ x 0.625" THK WALL ($S = 1,383 in^3$) FOR BASE COLUMN

MOMENT @ A

$M_A = 62.21^K \times 48' = 2986.08$ K-1

$S_{REQ} = \frac{2986.08 \times 12}{35 \times 0.66 \times 1.33} = 1166.3 in^3$

USE 42"ϕ x 0.750" PIPE ($S = 1295.2 in^3$)

MOMENT @ B

$M_B = \frac{52 \times 54 \times 36}{(2)(1000)} \times 26' = 1314.14$ K-1

$S_{BREQ} = \frac{1314.14 \times 12}{35 \times 0.66 \times 1.33} = 573.3 in^3$

USE 42" ϕ x 0.625" PIPE ($S = 828.2 in^3$)

MOMENT @ C

$M_C = \frac{32 \times 54 \times 36}{(2)(1000)} \times 16' = 497.66$ K-FT

$S_{CREQ} = \frac{497.66 \times 12}{35 \times 0.66 \times 1.33} = 194.4 in^3$

USE 36" ϕ x 0.375" PIPE ($S = 370 in^3$)

FOUNDATION DESIGN

$M = 3,545.98$ K-'

$p = 124.42/2 = 62.21$ KIPS

$$h = \frac{M}{p} = \frac{3545.98}{62.21} = 57'$$

ASSUME TYPE IV SOIL

LATERAL RESISTANCE = 150 #/1'

TRY 7' Ø PIER

$$A = \frac{2.34 \times 62.21}{(\frac{12}{3}) \times 0.15 \times 7 \times 2} = \frac{145.57}{8.4} = 17.33'$$

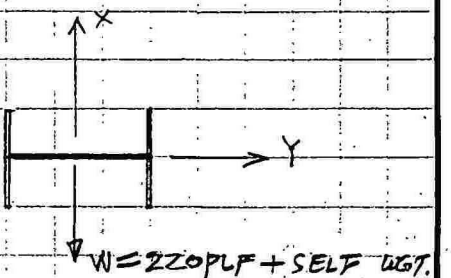
$$d = \frac{A}{2}\left(1 + \sqrt{1 + \frac{4.36h}{A}}\right)$$

$$= \frac{17.33}{2}\left(1 + \sqrt{1 + \frac{4.36 \times 57}{17.33}}\right) = 42.6'$$

USE 7' DIA x 43' DEEP FOOTING.

BEAM DESIGN

BEAM 2 & 3



WIND PRESSURE = 24' × 36 psf = 864 PLF

$$w = \frac{(5500+5000)\times 2}{(2)(48)} = 220 \text{ PLF}$$

TRY W27×146 ($S_x = 411\ in^3$; $S_y = 63.5\ in^3$)

$$M_x = \frac{864 \times 48^2}{(8)(1000)} = 248.8 \text{ K-FT}$$

$$M_y = \frac{(220+146)\times 48^2}{(8)(1000)} = 105.41^{K-1}$$

$$f_{bx} = \frac{248.8\times 12}{411} = 7.26 \text{ ksi}$$

$$f_{by} = \frac{105.41\times 12}{63.5} = 19.92 \text{ ksi}$$

$$\frac{l}{r_T} = \frac{48\times 12}{3.68} = 156.5 > \sqrt{\frac{510\times 10^3\, C_b}{F_y}} = 120.7$$

LARGER OF $F_{bx} = \frac{170\times 10^3 \times 1}{(156.5)^2} = 6.94$ ksi OR $F_{bx} = \frac{12\times 1000\times 1}{12\times 48\times 2.01} = 10.36$

$F_{bx} = 10.36 \text{ ksi} \times 1.33 = 13.8$ ksi

$F_{by} = 0.75\, F_y = 27.0$ ksi

$$\frac{f_{bx}}{F_{bx}} + \frac{f_{by}}{F_{by}} = \frac{7.26}{13.8} + \frac{19.2}{27.0} = 1.23 > 1.0 \text{ (N.G.)}$$

TRY W30×173 ($S_x = 539\ in^3$; $S_y = 79.8\ in^3$)

$M_x = 248.8^{K-1}$

$$M_y = \frac{(220+173)\times 48^2}{(8)(1000)} = 113.18^{K-1}$$

$f_{bx} = \frac{248.8^{k-1} \times 12}{539} = 5.54 \text{ ksi}$

$f_{by} = \frac{113.18 \times 12}{79.8} = 17.0 \text{ ksi}$

$\frac{l}{r_T} = \frac{48 \times 12}{3.94} = 146.2 > \sqrt{\frac{510 \times 10^3 C_b}{F_y}} = 120.7$

CALCULATE OF

$F_{bx} = \frac{170 \times 10^3 \times 1}{(146.2)^2} = 7.95 \text{ ksi}$ OR $F_{bx} = \frac{12 \times 1000 \times 1}{12 \times 48 \times 1.91} = 10.91$

$F_{bx} = 10.91 \times 1.33 = 14.54 \text{ ksi}$

$F_{by} = 0.75 F_y = 27.0 \text{ ksi}$

$\frac{f_{bx}}{F_{bx}} + \frac{f_{by}}{F_{by}} = \frac{5.54}{14.54} + \frac{17.0}{27.0} = 1.01$ (1% OVER, OK)

USE W 30 x 173.

CONNECTION @ BEAM END.

SHEAR FORCE $= \frac{864 \times 48}{2} = 20.74 \text{ kips}$

USE 8-1"Ø A325 BOLTS 13.4 kips SHEAR CAPACITY EACH

SHEAR CAPACITY $= 8 \times 13.4 = 107.2 \text{ kips} > 20.74 \text{ kips}$ (OK)

SHEAR @ COLUMN-BEAM CONNECTION $= \frac{20.74^{k} \times 36}{18} = 41.48 \text{ kips}$ (HORIZ. SHEAR)

VERTICAL SHEAR $= 220 \times 48/2 = 5.28 \text{ kips}$

TOTAL SHEAR $= \sqrt{41.48^2 + 5.28^2} = 41.81 \text{ kips}$

CAPACITY OF WELDING $= 2 \times 56.5 \times (14/16 \times 16) \times 0.67 = 1059.9 \text{ kips} \gg$ SHEAR (OK)

LEEDCO ENGINEERS

STRUCTURAL - GEOTECHNICAL - ENVIRONMENTAL-TRANSPORTATION

SIGNATURE

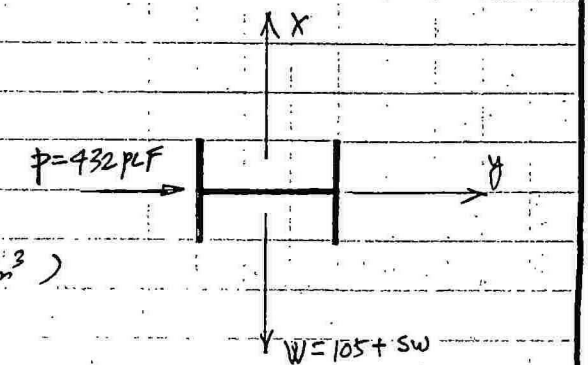
PROJECT

DATE 11-17-97 LICENSE # SE 2543

BEAM 1 & 4

WIND PRESSURE = 12'x36psf = 432 PLF

$W = \frac{5000 \times 2}{(2)(48)} = 105$ PLF



TRY W 30 x 148 ($S_x = 436\ in^3$; $S_y = 43.3\ in^3$)

$M_x = \frac{432 \times 48^2}{(8)(1000)} = 124.42^{k-1}$

$M_y = \frac{(105+150) \times 48^2}{(8)(1000)} = 73.44^{k-1}$

$f_{bx} = \frac{124.42 \times 12}{436} = 3.42$ ksi

$f_{by} = \frac{73.44 \times 12}{43.3} = 20.35$ ksi

$\frac{l}{r_T} = \frac{48 \times 12}{2.70} = 213$

LARGER OF

$F_{bx} = \frac{170000}{(213)^2} = 3.74$ ksi OR $F_{bx} = \frac{12000}{12 \times 48 \times 2.48} = 8.4$ ksi

$F_{bx} = 8.4 \times 1.33 = 11.2$ ksi

$\frac{f_{bx}}{F_{bx}} + \frac{f_{by}}{F_{by}} = \frac{3.42}{11.2} + \frac{20.35}{27.0} = 1.06$ (6% OVER SAY OK)

USE W 30 x 148 OR W 27 x 146 (OR BY INSPECTION)

"C" CHANNELS

$p = 36 \times 5 = 180$ PLF

$M_{x\,max} = \frac{180 \times 8^2}{8} = 1440$ #-'

16 GAGE "C" CHANNEL $S_x = 1.30$ in^3

$f_b = \frac{1440 \times 12}{1.30\,(1000)} = 13.29$ KSI $< F_b = 50 \times 0.6 \times 1.33 = 39.9$ KSI (OK)

VERTICAL LOAD $\approx$ 15 PSF (ASSUMED)

$\approx$ 75 PLF

VERTICAL SHEAR = $75 \times 8 = 600$ #

USE OF 2 - 1/2" ϕ M.B IS OK BY INSPECTION.

UPRIGHT MEMBER

WIND LOAD = $36 \times 8 = 288$ PLF

Max Moment = $\frac{288 \times 22.5^2}{8} = 18225$ #-'

$f_b = \frac{18225 \times 12}{18.8\text{ in}^3} = 11.6$ KSI

for W 10 X 19 $L_c = 4.2'$ $L_u = 7.2'$

$L_c' = 5.0'$

THEREFORE $F_b = 36 \times 0.6 \times 1.33 = 28.73$ KSI $< f_b$ (OK)

SHEAR FORCE = $15000 \times 3/5 = 9000$ # / UPRIGHT MEMBER

USED 4 - 3/16" ϕ M.B PER CONNECTION X 5 PLACES.

= 20 BOLTS.

OK BY INSPECTION.

PAGE 1 OF 1

WORK AND REPORT OF STEEL INSPECTION

SHOP (FIELD)

REBAR WELD ☐ HI-TENSION BOLTS ☐ OTHER ☐

STRUCTURAL STEEL ☒ MATERIAL I.D. ☐

JOB NUMBER: 9 8 1 4 0 6 4 7

INSPECTOR CODE: R O B 1 R

PROJECT: CITY OF BEAUMONT PYLON SIGN

ADDRESS: 503 HIGHLAND SPRINGS BEAUMONT, CA. 92223

SCHOOL DISTRICT:

OSA-OSHPD APPLICATION #:

PERMIT #: BP 7231

GENERAL CONTRACTOR: PLASTO-LINE

SUB-CONTRACTOR: SAME

WELDERS: MARK D. STALFORD N86630
DANNY WRIGHT N86384

ELECTRODES: E 7018

DATES — REPORT OF INSPECTION PERFORMED

INSPECTED WELDING OF PIPE COLUMN REDUCTION ASSEMBLIES AND PLUG WELDS OF REDUCTION RINGS; SIX STAGES TOTAL. AREA OF WORK: STRUCTURAL SUPPORTS FOR FIFTY FOOT PYLON SIGNAGE WITH OVERALL TO NINETY FEET FROM GRADE ELEVATION.

WELDING CONFORMS TO A.W.S. D.1.98 STANDARDS AND APPLICABLE A.P.I. STANDARDS AS WELL AS PLANS AND SPECIFICATIONS.

R.E. Robinett

ICBO. 1052507

AWS·C.W.I. 96100742

OSA / OSHPD PROJECT USE ONLY

I DECLARE UNDER PENALTY OF PERJURY THAT ALL OF THE ABOVE STATEMENTS ARE TRUE, AND THAT I KNOW OF MY OWN PERSONAL KNOWLEDGE THAT THE WORK DESCRIBED IN THE REPORT HAS BEEN PERFORMED AND INSTALLED IN EVERY RESPECT IN CONFORMANCE WITH THE DSA/OSHPD APPROVED PLANS, SPECIFICATIONS AND ALL APPLICABLE CODES.

INSPECTOR'S SIGNATURE — PRINT NAME

☐ ATTACHMENTS

☒ CONTINUED ON OTHER SIDE

☒ WORK COMPLIES WITH PLANS, SPECIFICATIONS AND ALL APPLICABLE CODES.

DATES	REPORT OF INSPECTION PERFORMED
	INSPECTION OF WELDING PERFORMED OVER A PROGRESSIVE SCHEDULE. THIS REPORT COVERS WORK PERFORMED OVER A PERIOD OF THE FOLLOWING DATES
	AUGUST 3, 4, 5 AND 6TH OF 1998.
	SEPTEMBER 1, 2, 29 AND 30 1998
	MARCH 25 AND 26 1999
	APRIL 5 AND 6 1999.
	I.C.B.O # 1052507
	AWS 96100741

SPECIAL NOTES OR EXCEPTIONS:

PAGE 1 OF 1

WELDED REPORT OF STEEL INSPECTION

SHOP (FIELD)

REBAR WELD ☐ HI-TENSION BOLTS ☐ OTHER ☐

STURCTURAL STEEL ☒ MATERIAL I.D. ☐

JOB NUMBER: 9 8 1 4 0 6 4 7

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OSA / OSHPD PROJECT USE ONLY

INSPECTOR'S SIGNATURE — PRINT NAME

☐ ATTACHMENTS

☒ CONTINUED ON OTHER SIDE

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DATES **REPORT OF INSPECTION PERFORMED**

INSPECTION OF WELDING PERFORMED OVER A PROGRESSIVE SCHEDULE.
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AWS 96100741

SPECIAL NOTES OR EXCEPTIONS:

LEEDCO ENGINEERS

STRUCTURES • FOUNDATION • GEOTECHNICAL

9440 Telstar Ave., Suite #5, El Monte, CA 91731

(626) 448-7870 Fax: (626)448-3955

TELECOPY

To: MR. KENT HALL / Date: 3-12-98

BUILDING INSPECTOR
CITY OF BEAMONT, CA

PHONE# 909-769-8529
FAX 909-769-8526

From: DENNIS LEE

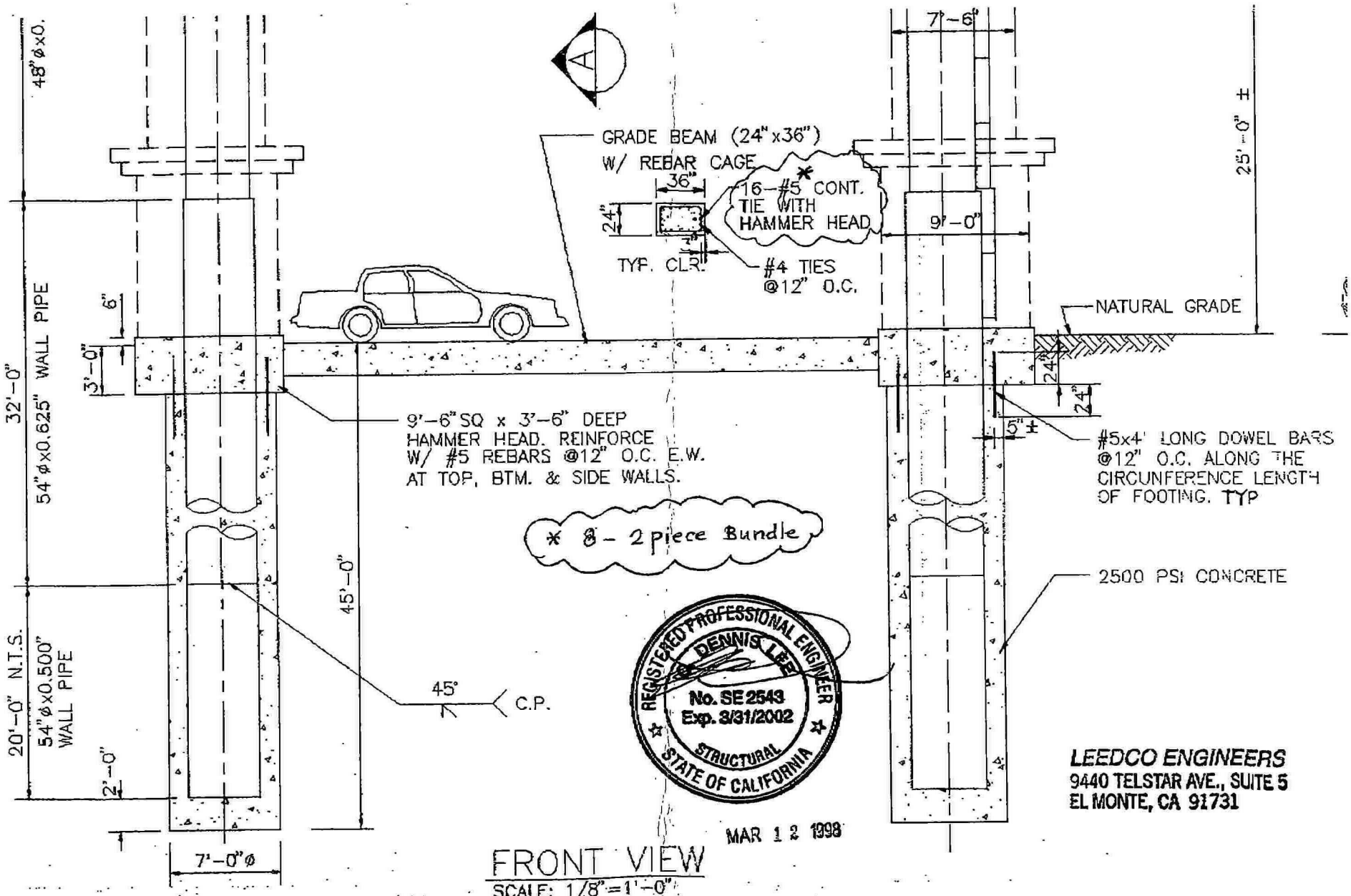
Subject: COMMERCIAL DISPLAY
@ BEAMONT CENTER

CC: JIM ELMORE

1) This cover sheet is page one of 2 pages.

2) Hard copies { will ___ be mailed via { regular ___ mail.
{ will not ✓ { overnight ___

Effective Immediately, the area code of all our phone has been changed to 626!



FRONT VIEW
SCALE: 1/8"=1'-0"

LEEDCO ENGINEERS
9440 TELSTAR AVE., SUITE 5
EL MONTE, CA 91731