

City of Chicago



Or2014-129

Office of the City Clerk

Document Tracking Sheet

Meeting Date: 4/2/2014

Sponsor(s): Burke (14)

Type: Order

Title: Issuance of permits for sign(s)/signboard(s) at 4537 S

Archer Ave

Committee(s) Assignment: Committee on Zoning, Landmarks and Building Standards

Committee on Zoning, Landmarks, and Building Standards

(Signs)

 Ad Deluxe Sign Company Incorported
 23856 West Andrew Road, Suite 103
 Plainfield, Illinois 60585
n of a sign/signboard over 24 feet in height and/or over 100 square feet (in ar
n of a sign/signboard over 24 feet in height and/or over 100 square feet (in ar : (Business Name & Address)
: (Business Name & Address)

Such sign(s) shall comply with all applicable provisions of TITLE 17 of the Chicago Zoning Ordinance and all other applicable provisions of the Municipal Code of the City of Chicago governing the construction and maintenance of outdoor signs, signboards and structures.

TOTAL SQUARE FOOT AREA: _____ 150 feet

EDWARD M. BURKE Alderman, 14th Ward

		-	,·	
	•			
				<i>i</i> ~
				*

	Si	gn Permit	Applicati	on		•						
APPROVAL NUMBER	APPLICATION NUMBER 100528008	ANNUAL FEE	7	ORK CODE		DRAWII ATTACI	103 <u> </u>	YES NO				
DATE OF APPLICATION	02/18/2014		TYPE OF SIGN FLAT OR BOX									
ADDRESS OF SIGN 4537 S ARCHER AVE	E, 60632-		LENGTH	гт. 6	in,							
BUILDING	ORIGINAL PERMIT NUMBER		AREA	SQ. FT. 150		WEIGHT		LBS. 500				
	STRUCTION (SIGN)		SIGN HEIGHT ABOV	E GRADE/ROOF				гт. 32				
PAYER OF ANNUAL INSPECTION STILLMAN, HOWARD 2917 WEST IRVING PA CHICAGO, IL 60618 (773)737-4843	RK ROAD		SHAPE OF SIGN REGULAR SIGN WILL READ CAR OUTLET									
SIGN MANUFACTURER AD DELUXE SIGN CON			NO. OF LAMPS TOTAL WATTAGE 48 4800									
ADDRESS WHERE SIGN CAN BE SEEN	PRIOR TO ERECTION	1	TYPE OF LAMP	FLUORE	SCENT							
TICKET NUMBER R	EINSPECTION CONTROL NUMBER		NO. OF BALLAST/	RANSFORMERS	·	INPUT OF T	RANSFORMERS					
	OLE		CONTRACTOR WILL INSTALL N FEEDERS Y CUSTOMER LEADS									
SIGN BOARD SUPPORT MEMBERS	STEEL		TYPE OF SWITCH	KNIFE								
ANNUAL FEE CONSTRUCTION FEE	500.00		LOCATION OF SWITCH	OUTSID	E SIGN							
1017 B FEE TOTAL FEE		# for Zoning	SIGN LOCATION FURNISH AND INSTALL 6'-6" X 23' DOUBLE FACE POLE SIGN ON TWO POLES 32' FROM GRADE TO BOTTOM OF SIGN COPY WILL READ "CAR OUTLET"									

The undersigned certify that the statements in this application are true and correct and that all work done under the proposed permit will conform to the requirements of the Chicago Municipal Code

	REG. NO.	E68756		BOND, NO.	REG. NO.	N92559
ELECT CONTR FULLER-BURRELL ELECTRIC CO	NTRA	ELECTR		SIGN ERECTOR AD DELUXE SIGN CO INC.		SIGNER
ADDRESS			7 [ADDRESS		
1424 N. LUNA AVE.				23856 W ANDREW RD STE103		
CHICAGO, IL 60651-				PLAINFIELD IL, 60585-		
SUPERVISOR SIGNATURE	2020			SIGNATURE AD BO	2	

The permit issued on this application will authorize only signs here applied for. If other signs are to be erected they must be covered by additional permits

City of Chicago Rahm Emanuel, Mayor



Department of Buildings
Felicia Davis, Commissioner

BALANCE DUE

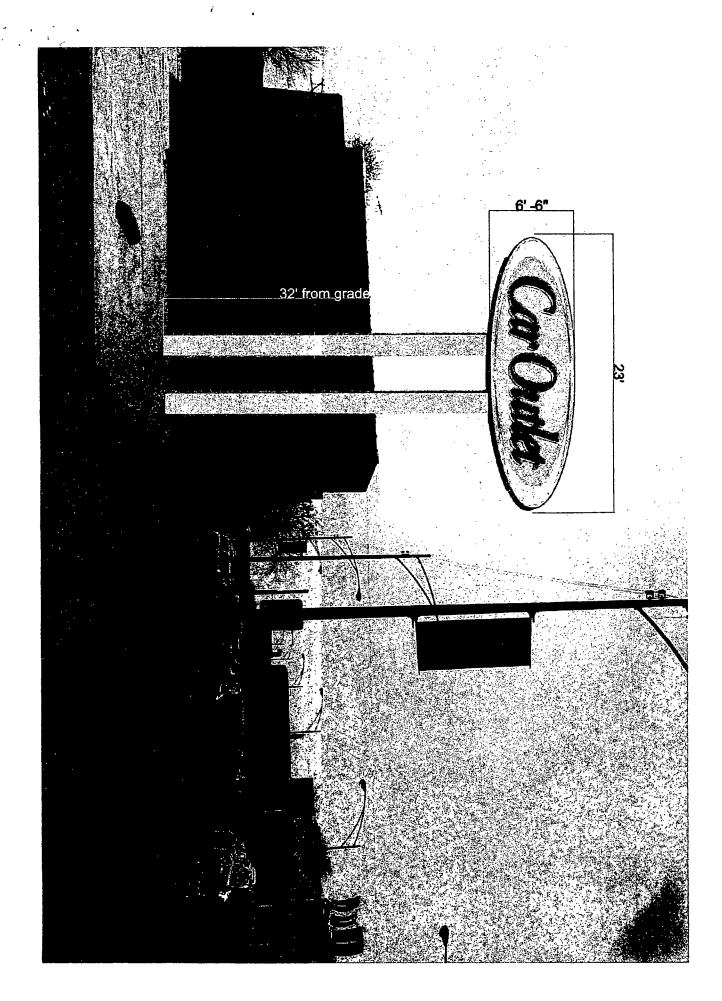
TYPE OF BUSINESS COMMERCIAL Other: CAR DEALERSHIP	SIG	N BOND REQUIRED?	YES	
Name: 4537 S'ARCHER AVE	COL	JNCIL ORDER REQUIRED	X YES	
LIC #: 66905				
Renewal Date:	l	PECIAL PERMISSION REQUIRED F	ROM CHIEF	ELECTRICAL
Projects Over:	X	YES		
N Private Property		ES, ATTACH LETTER OF REQUEST	r	
Y Public Way Grant Permit #: 1110394	IF 1.	ES, ATTACH LETTER OF REQUEST		
Planned Development/Manufacturing PMD/PD#: Zoning District: C1 Other: C1-2	TIM	E STAMP		
TYPE OF SIGN:				
X ADVERTISING X ILLUMINATE MOVEABLE	E			
BUSINESS FLASHING				
TOTAL STREET FRONTAGE OF LOT (IN FEET)	100			
TOTAL AREA OF NEW SIGN (SQ.FT.)	150			
TOTAL AREA OF ALL SIGNS ON LOT (SQ.FT.)	150			
HEIGHT OF SIGN ABOVE GRADE (TO TOP) 38ft	6in			
DISTANCE OF CURB LINE OUTER EDGE (ft)	19 SIG	N CLERK		APPROVED FOR PERMIT
DISTANCE OF STRUCTURE INNER EDGE (ft)	30			
DISTANCE FROM (ft):	REM	MARKS		
A. PUBLIC PARK (OVER 10 ACRES)	,000			
B. EXPRESSWAY (IF LESS THAN 1,000 FT.)	000			
©. RESIDENCE DISTRICT (ADVERTISING SIGNS ONLY)	150			
IF REPLACEMENT SIGN OR CHANGE OF FACE, WHAT DOES THE EXISTING SIGN PREAD?				
Original Payee:				
Landmark Hold: Status:				
ZONING (OFFICE USE ONLY)				
	ł			
	İ			

EQ DERM ADD WER REMANTIL AD #100508008 Done 7 of 7

CITY OF CHICAGO DEPARTMENT OF ZONING AND LAND USE PLANNING SIGN SITE PLAN (ALL INFORMATION MUST BE COMPLETED AND LEGIBLE).

(ARAL IN TORRASION MODE DE	COMPLEIDD AND E	•	
Site Address: 4537 S ARCHER AUE	Chicago,	\$160632 of applie	ations
Sign Company: AD DEWXE SIGN CO		AHMET DEMIR	
Phone 815)556 -8469 EXT NA (Below	v: Building, streets a	nd location of sign on lot or struct	ure)
Nort	th .		
	Homer		
West			East
ARCHER ANE BEMPTYLO	Howard		
Sign USE: Bus. ID (On-premise) Business Lice # Adv. mise) Sour TYPE OF SIGN: Flat Wall Freestanding Awning Marquee High Rise Building Projecting Private		SIGN CHARACTERISTIC Non-Illuminated Illuminated Changing Image Video Display Flashing	S:
PERMIT TYPE: New Construction Change of Face Previous Permit # TOTAL SOUARE FOOTAGE:	₩ #	DISTANCE FROM: Curb Line: 4 Expressway, Toll Roads or Major Route (n/a if over 1000 ft)	
Square footage of this proposed signs Square footage of this proposed signs Area of all existing signs (not including proposed) on Zoning Lot 150		Park (over 10 acres) (OOO) Residential Zone 150 Existing Off-premise on same side of street:	-
Signature:		Date: 1-20-1	+

(Revised 4/10)

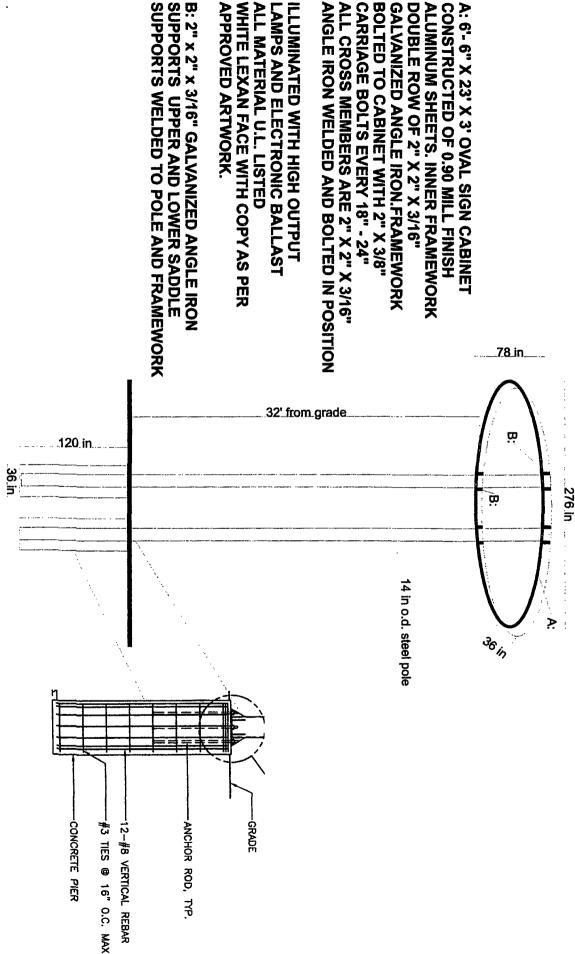


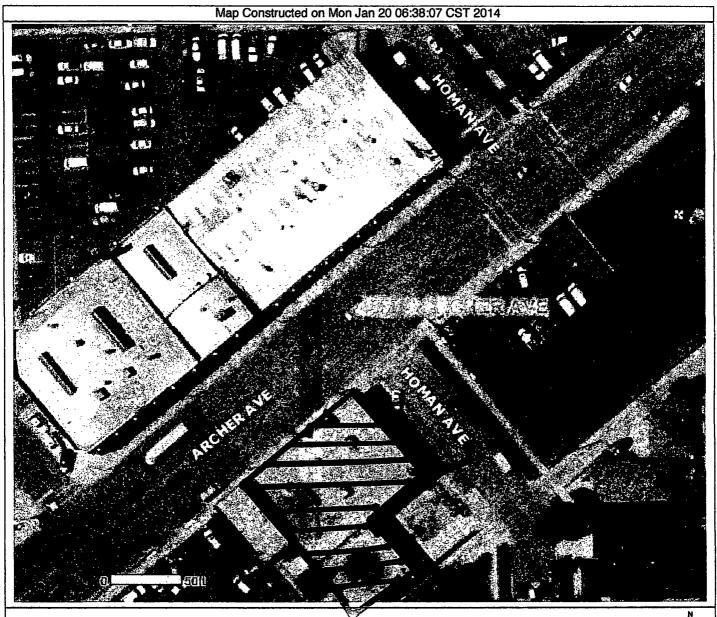
BOLTED TO CABINET WITH 2" X 3/8" CARRIAGE BOLTS EVERY 18" - 24" GALVANIZED ANGLE IRON.FRAMEWORK **ALUMINUM SHEETS. INNER FRAMEWORK CONSTRUCTED OF 0.90 MILL FINISH** A: 6'- 6" X 23' X 3' OVAL SIGN CABINET ANGLE IRON WELDED AND BOLTED IN POSITION ALL CROSS MEMBERS ARE 2" X 2" X 3/16" DOUBLE ROW OF 2" X 2" X 3/16"

SUPPORTS UPPER AND LOWER SADDLE B: 2" x 2" x 3/16" GALVANIZED ANGLE IRON ALL MATERIAL U.L. LISTED APPROVED ARTWORK. WHITE LEXAN FACE WITH COPY AS PER LAMPS AND ELECTRONIC BALLAST

ILLUMINATED WITH HIGH OUTPUT

W 1 2 3 3 4







This map is a public resource of general information. The City of Chicago makes no warranty, representation or guaranty as to the content, sequence, accuracy, timeliness or completeness of any of the database information provided herein. The reader should not rety on the data provided herein for any reason. The City of Chicago explicitly disclaims any representations and warranties, including; without limitation, the implied warranties of merchantability and fitness for a particular purpose, the City of Chicago shall assume no liability for: 1. any errors, omissions, or inaccuracies in the information provided regardless of how caused; or 2. any decision made or action taken or not taken by the reader in reliance upon any information or data furnished hereunder. Map Copyright (c) 2007-2010 City of Chicago

Building Removed From Location Empty Lot

	10 RMS, 2	9 RS	8 76 76	1,80 DR c	1,50 6 iess C2, 1	5 800 800 83,	- - ο ω (ت س ت م ا	20,	Q		중 * •	
! ! !	RM5, RM5.5 RM6, RM6.5	Residential districts	(Downtown Residential)	 x street frontage of 1,800 whichever is less DR districts 	4 × street frontage or 1,500 whichever is less C2, M Districts	4 × street frontage 800 whichever is less 83, C3, DS Districts	3 x street frontage or 600 whichever is less	B1, B2, Districts 3 × street frontage or 600 whichever is less C1 Districts	Zone Description			Open Save	٠.
	5.5 RM	al distr	<u>, </u>	icneve	t front icheve tricts	t front hever i	t front Tever i	istricts t front never i	criptio	A			
1 .	, 6, i	ີ ທີ່ ໄດ້ ເ	:	r is	t is	age s less ricts	age or s less	age or	: :				
				vi	4 X	~, ,, 4`	ω ×			0		Providence of	
	;	·	·	·		· ·	·×	·* ·	Multipler	n		V 80)	* ,
									Lot	0		v Paste	•
		ti	6	. 10	0 11	<u> </u>	100 s	0		m		`	. :
		:	4			3	••	• • • •	Total	1		format	
	:	.0			:0	0	300	0	Total Area of Signage,	1		Linds 1	
	10	li e										Undo Redo	
											2	aga diperana	
							•	•	Total Allowable Signage for Proposal	I	G	AutoSum	
 : : **		0	,°		: •	· <u> </u>	300	0	. ,	1	\sim	5 2	
		\times			,			•	Pole Sign Multiplier	_	Charts	50:1 A-Z	. 1
		<u> </u>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0.5	0.5	0.S	0.5	0.5		-		507 Z A	**.* **
	•	$ \times $:	•		•	:	Total Allowable Area for Pole Sign	_	Y S	* * * * * * * * * * * * * * * * * * * *	
	i i			. 0	0		150	.0	da and and an area area are an area and an area area. The area area area area area area area ar		1,216	Gallen	
1 :	:	:		0	;	.0	:0	:o	Change of Image, Message Center, Video Display Multipler or less than 100 sq.ft.	x	Signification states	Toolbox	
1		0.25	0.25	0.25	0.25	0.25	0.25	0.25		į.	Ç.	47.00	. ·
	i				:	-	,		Total Allowable Area for Change of Image Sign (MESSAGE CENTER)	_	1	100% (**	
	<u>.</u>				<u>S</u>		75				6		•
1	:	•		- :		:	<i>:</i>	:	Total Allowable rea for pole and Change of Image MESSAGE (CENTER) Sign	Z			
l ·		.0		, 	·0		37.5	; 0	Total Allowable area for poic total Area for Total Area for and Change flashing signs flashing signs of Image (MESSAGE) Without pole (CENTER) Sign				
	:	:	:	•			;		Total / flashir Witho				
	•			:	:	;	;		area fo ig sign ut pol	2			
	1	<u></u>		`^			75	$\langle \cdot \rangle$	or Tota	- }- -			
	:	:	Ξ					IX	al Area hing si	0			٠
	. ,				0	•	37.5		for gas s	· ·			
	;					,			VIDEO DISPLA) igns With	-			٠.
1					; ; .o	0	2812.5	$/\!\!\!/$	Total Allowable area for pole total Area for Total Area for DISPLAY and Change flashing signs flashing signs signs Without of Image (MESSAGE) Without pole With pole (CENTER) Sign				
	 :		7			:			4				
		$\mid X$;	i	•	2812.5	IX	VIDEO DISPLAY signs With pole	۵	; {		

01/09/2014 - Stan Adams

DBA Name 4537 S. ARCHER, LLC

Location <u>4537 S. ARCHER AVE.</u>

Zip Code <u>60632</u>

Account Number <u>66905</u>

Site Number 13

Area <u>PERMIT</u>

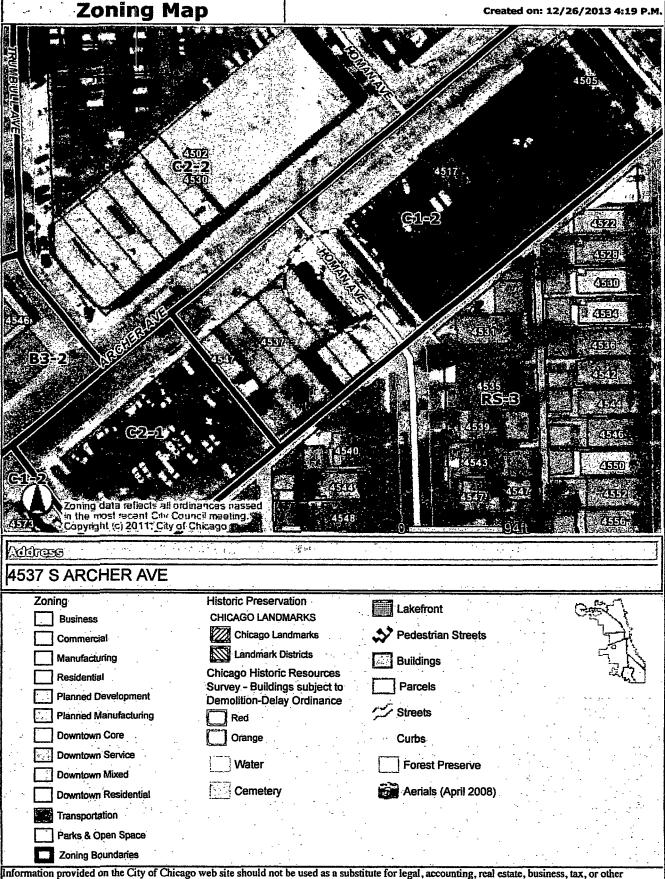
Permit Type <u>SIGN</u>

Permit Number <u>1110394</u>

Next steps: Department of Buildings - Permit process for signs

Your Public Way Use permit number is shown above. This number is to be used for each item on your DOB application and is needed for the Buildings (DOB) online sign application located @ www.cityofchicago.org/buildings. All signs, canopies, banners, marquees and awnings require a buildings permit. Only a licensed sign erector may apply for the Buildings permit online. The Buildings permit application will ask for the Public Way Use permit number supplied above. For additional information please contact the Buildings Department at (312) 744-3400.

Please return the completed Public Way Use application to City Hall - 121 N. LaSalle Street, Chicago, IL 60602 Room 800. The completed application package must include a copy of the completed DOB application and the Public Way Use application. The Public Way Use application must contain the Alderman's signature, site plans on 8 1/2 X 11 paper, photos of the item(s), the signed Acceptance letter and a copy of the insurance certificate. For additional information please contact BACP at (312)-74-GOBIZ (312-744-6249).



Information provided on the City of Chicago web site should not be used as a substitute for legal, accounting, real estate, business, tax, or other professional advice. The City of Chicago assumes no liability for any damages or loss of any kind that might arise from the use of, misuse of, or the inability to use the City web site and-or the materials contained on the web site. The City of Chicago also assumes no liability for improper or incorrect use of materials or information contained on its web site. All materials that appear on the City of Chicago web site are distributed and transmitted as is, without warranties of any kind, either express or implied, and subject to the terms and conditions stated in this disclaimer.



This map is a public resource of general information. The City of Chicago makes no warranty, representation or guaranty as to the content, sequence, accuracy, timeliness or completeness of any of the database information provided herein. The reader should not rely on the data provided herein for any reason. The City of Chicago explicitly disclalms any representations and warranties, including; without limitation, the implied warranties of merchantability and fitness for a particular purpose, the City of Chicago shall assume no liability for: 1. any errors, omissions, or inaccuracies in the information provided regardless of how caused; or 2. any decision made or action taken or not taken by the reader in reliance upon any information or data furnished hereunder. Map Copyright (c) 2007-2010 City of Chicago

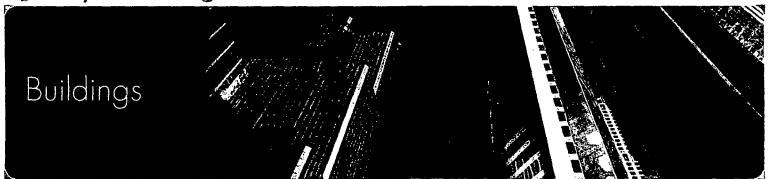
ZONE CIE	siderilon .	edand parentipo	© 70	hange Date	9
C1-2					
Conficience Ic	How Add to Add	Dir Street Type Storic	e Unis Evill Sq.	Fi. Conditio	w Yacangy
885493	4537 4537	S ARCHER AVE			···
Map Index		Pagja Klyndi	X9 (7		
10-J	. #	130B			<u> </u>
PIN	From Addres	e To Address	Dir Street	uyyes	Swiibz
1902418012	4537	4537	S ARCHER	AVE	
Word	Aldermen	Phono	Addræ	S	
14	EDWARD M. BURKE	773-471-1414	2650 W.	51st Street	

Close Window

City of Chicago Online Permits 2/18/14 3:25 PM



City of Chisago



Online Permits & Trade License Renewals

Portal Services

Online Permits
Apply For Permit
View My Applications
Manage My Eplans
View My Payments
Update Account
Check Application Status
Logout

Payment Confirmation

Thank you for using the City of Chicago Online Permitting. Please keep this information as verification of payment.

<u></u>	App#	Date	Туре	Description	Fee
\pm	100528008	2/18/2014	Sign	4537 S ARCHER AVE 60632-	\$500.00
				and the second s	

Total: \$500.00

Transaction Number: 176361 Reference Number: 5790740 Credit Card Charge Total: \$500.00

If you are having trouble with the website, please contact the City of Chicago by emailing dobwebhelp@cityofchicago.org to report your problem and a technician will respond to you.

Copyright & 2009 City of Chicago





This bound document has been specifically prepared by a Licensed Structural Engineer. Each detail attached herein has been reviewed by a Licensed Structural Engineer who is responsible for the designs.

This bound document is exclusively for the client listed below:

Ad Delux Sign Co. Mr. John Miller, primary contact 23856 W. Andrew Rd., Ste. #103 Plainfield, IL 60585-8770 **CALCULATIONS**

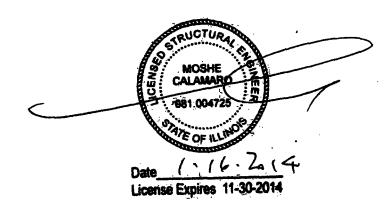
JOB NAME: Car Outlet Sign

Chicago, Illinois

JOB File #: MC# 114004

I hereby verify that this document was prepared by me or under my direct supervision and that I am a duly Licensed Structural Engineer.

THESE DESIGNS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION



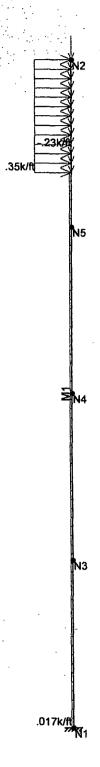
This document is permanently bound. The staples used must not be removed. If any modifications are made, this sealed document is no longer valid.

•	-										
M							LA				
· 1	8	A	s	s o	CI.	AT	ES	•	1 17		
	5 Y	RL	3 6		3 A L	E	7	7	ER	<u></u>	· .

SHEET NO	MC#	
DRAWN BY	DATE 1/15/14	
		٦
DEMONED DA	PATT*	

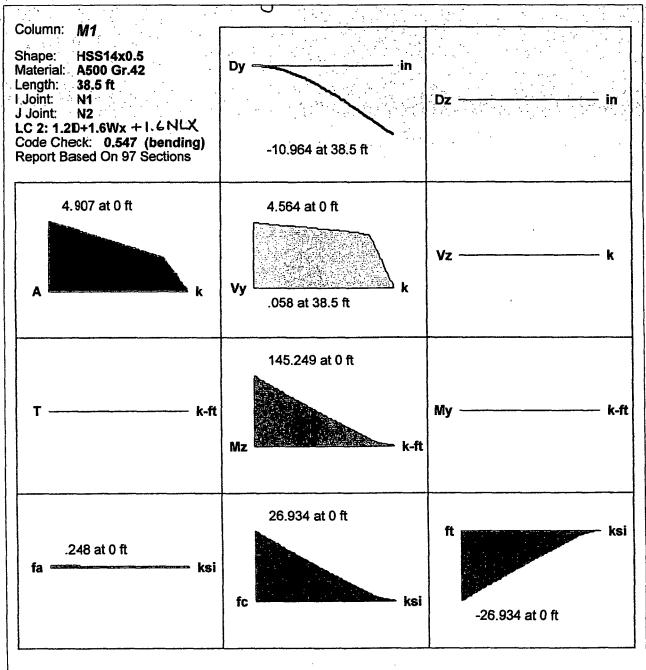
Υ!	- U	R E	3 T F	, iu -c	3 T U	RA	<u> </u>) RI	E A 1	м. т	E A	M	48				. * *			 				• •		• •		. 1.	
			:					-													: `	,	-:-						
	Lo	م کاد	2									-										-				-			
	<u></u>	ا در	لدن	=		30		£							-														
		<u> </u>	146			20	<u> </u>	£		_			-									·							
		>19	n !	167		عد	<u>_P</u>	51																				\dashv	
				<u> </u>																									{
				ļ								<u> </u>				ļ												_	
	Dec) -												<u> </u>													
		Zt	ps	f-	6.	5-	23'	=	2.	99	4	/_	2	ام	5 =	1.	50	k											
				<u> </u>																	_								
	Wi	nd	100	2-																									
		30	<u>ا</u>	f-	23	!	=	.69	1 K	15	1 2	2	ols		=		35	klf	+	OB	6,	5'	of	6	سار	7			
				<u> </u>							-																		
	No.	n'e		100	9	 																							
					50	ļ							<u> </u>	 		 													
		<u>ع د</u>	<u>v -</u>	lo.	30	<u> </u>		10	<u>-1</u>		2	770		 		 -			 -										
·		Colo	wn.	7	2.16	b (b	3-	<i>3</i> 8.	2	-	4.	778	E			-	-	0		, -									نـ ـــــ
				 							4,	2 /8	K	-	- 6	02	=	8.	6	<u>Þ</u> ≤		[
			ļ	 	<u> </u>		ļ <u>.</u>					 			<u> </u>			<u> </u>	 	 	ļ				<u>:</u>				
			<u> </u>	 	<u> </u> 	<u> </u>	ļ		ļ		<u> </u>	<u> </u>	ļ		 -	 	 -	-	-	-		<u> </u>							
			<u> </u>	—	 	ļ	<u> </u>				<u> </u>	ļ	ļ	<u> </u>	 	<u> </u>	 		<u> </u>	<u> </u>	ļ								
	W	nd	Los	8	Ви	ي ا	<u>olu</u>	16	-		ļ		<u> </u>		ļ	<u> </u>	ļ	<u> </u>	<u> </u>	ļ	ļ		ļ		<u> </u>				-
		(.	7.	20)		12	=	16	3	plf	ļ			ļ	<u> </u>		<u> </u>		<u> </u>		ļ		İ	! 	<u> </u>	ļ			
																<u> </u>	<u> </u>		<u> </u>										
	L	ade	0	41 6	oto	iga	وريا	=																					
		וס	L =	20	Pć.	₩.	6,5	= '/2		=		65	k	16								T							
<u> </u>				30		•	1	}		=			S KI			T	1												
ļ		"		1	1				 		1		T			1		_	1		 								
-	 	 	 	1	+	1	1	 		<u> </u>	1		\vdash	1		T	-		 	 		1					1		-
	-	 	+-	+	+	╁	-	-	-	 	 	-	+-	+-	-	\dagger	1-	-	1	 	 	+	\vdash		1	\vdash	-		
-	 - -	-	<u> </u>	-	 			}	-	-	1	-	├-	+	 	-	+		-	 		-	┼─	-	-	 	-	}	-
		_	-		+-	-	-	 	-	-	-		-	-	H	+	+-	 -	-	 	┼	 		-	-	 	-	-	-
-	-			 	┼	 	-	-	<u> </u>	-	-		-	┼	-	-	 	-	┼	-	-	-		 	-	 	 		
	<u> </u>	<u> </u>	-	1_	-	 	-	-	-	 	<u> </u>	-	-	 		ļ	 	 	_		\vdash	ļ	-	<u> </u>		<u> </u>	 		_
_		<u> </u>		1					_	<u> </u>		<u> </u>	<u> </u>	 	<u> </u>	<u> </u>	-	1_	<u> </u>		1	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
											1					ļ			<u> </u>	1:	<u> </u>		<u> </u>			<u> </u> -	<u> </u>	<u> </u>	
							-			<u> </u>	-			1								<u> </u>				<u> </u>	<u> -</u>	<u> </u>	

y zl.x



Loads: LC 4, Service: D+W Results for LC 1, 1.4D

Moshe Calamaro and Ass	••	SK - 1
CJG	Car Outlet Sign Post	Jan 15, 2014 at 2:25 PM
114004	Member and joint labels with applied loads	114004 Sign 03.r3d



AISC 13th(360-05): LRFD Code Check Direct Analysis Method

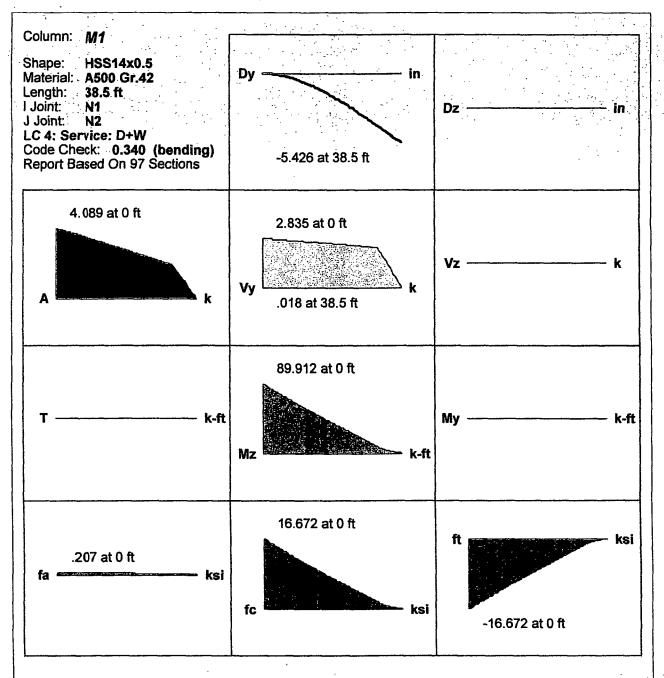
252.901 k-ft

phi*Tn

Cb

Max Bending Check 0.547 Location 0 ft Equation H1-1b			Max Shear Check Location Max Defl Ratio		0.020 (s) 0 ft L/42	
Bending Flange Compact Bending Web Compact				ression Flange ression Web	Non-Siender Non-Siender	
Fy phi*Pnc phi*Pnt phi*Mny	42 ksi 421.996 k 748.44 k 268.38 k-	ft	Lb KL/r	y-y 38.5 ft 96.589	z-z 38.5 ft 96.589	
phi*Mnz phi*Vny phi*Vnz	268.38 k- 224.532 k 224.532 k	<u> </u>		p Flange Length ue	38.5 ft NC 38.5 ft	• •

Tau_b



AISC 13th(360-05): LRFD Code Check

Location		0.340 0 ft H1-1b		Location	hear Check on efl Ratio	0.013 (s) 0 ft L/85	
		Compact Compact		Compression Flange Compression Web		Non-Slender Non-Slender	
Fy phi*Pnc phi*Pnt phi*Mny	42 ksi 421.996 k 748.44 k 268.38 k-f	_	Lb KL/r	y-y 38.5 ft 96.589	z-z 38.5 ft 96.589		
phi*Mnz phi*Vny phi*Vnz phi*Tn Ch	268.38 k-1 224.532 k 224.532 k 252.901 k			p Flange Length	38.5 ft NC		

Moshe Calamaro & Associates

Structural Engineers

930 Pitner Ave., Ste. #7, Evanston, IL 60202 Phone: (847) 733-0015 Fax: (847) 733-0018

© Moshe Calamaro & Associates

Job: Car Outlet Sign

CJG ·

Calc by:

Pier Embedment based on IBC 2006 1805.7.2.1

IBC 2012

1806.2

1807.3.2-1

Mark:	Minimum pier for sign columns
Description:	
	La provincia d'estita de del como establica de la compania de la compania de la compania de la compania de la compa

2819 lbs 89912.0 lb-ft equiv. h=

2.00 ft Trial d= 300 psf/ft Lateral Bearing

Assume 2,000 psf soil : lateral bearing is

A= 2.87

Total d= 11.52 ft

150 psf-Z = 300 psf per IBC 2012 table

S, is based on 13d 1/2-11.5 = 3,83' which is below frost = OK

Aprier = 17.362 = 1018 in2 Agrin = .005-1018 = 5.09

9-#7, min

Check pier as inscribed rectangle

w/ 3 bars acting d = 28-2 = 26"

As = 3 = 6 = 1.8 in2 a = 1.8-60 85-3-22

 $\epsilon_{t} = \frac{26 - 2.26}{2.26} \cdot .003 = .031 : \beta = .9$

ØMy = .9. 1,8.60 (26- 1,93) = 202.8 k-ft

My = 145 K- Ft OK



Profis Anchor 2.4.5

www.hiltl.us

Company: Moshe Calamaro and Associates, Inc.

Specifier:

Address: 930 Pitner Avenue Suite #7 Phone I Fax: (847) 733-0015 | (847) 733-0018 E-Mail: moshe@moshecal.com

Page: Project:

Sub-Project I Pos. No.: Date:

Car Outlet Sign 114004 1/15/2014

Specifier's comments:

1 input data

Anchor type and diameter: Heavy Hex Head ASTM F 1554 GR. 36 1 1/4

Effective embedment depth:

 $h_{ef} = 24.000 in.$

Material:

ASTM F 1554

Proof:

design method ACI 318-08 / CIP $e_b = 0.000$ in. (no stand-off); t = 0.750 in.

Stand-off installation: Anchor plate:

I, x I, x t = 22.000 in. x 22.000 in. x 0.750 in.; (Recommended plate thickness: not calculated)

Profile:

S shape (AISC); (L x W x T x FT) = 3.000 in. x 2.330 in. x 0.170 in. x 0.260 in.

Base material:

cracked concrete, 2500, $f_c' = 2500 \text{ psi}$; h = 420.000 in.

Reinforcement:

tension: condition B, shear: condition B; edge reinforcement: none or < No. 4 bar

Seismic loads (cat. C, D, E, or F)

Geometry [in.] & Loading [kip, ft.kip]

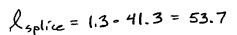
Tu= 27.9 k (bolts 1,4,6)

.9-60-As > 27.9

As > .517 \rightarrow use #7 bars As = .6 in²

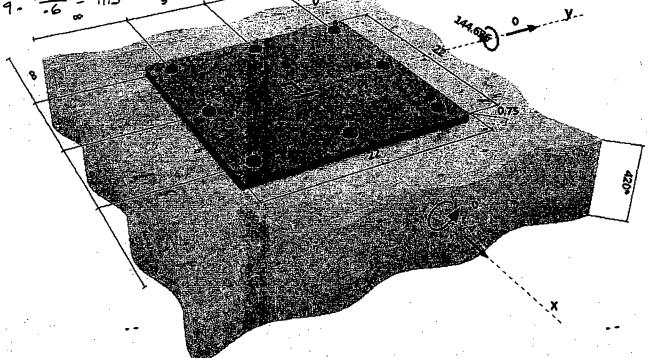
la = 60,000-1-1-1 70-13000 - .875 = 47.9

ld' = 47.9 - 517 = 41.3"



lenb = 53.7+ 2" cover + 6.25

4 use 64" emb.



www.hilti.us

Company:

Specifier. Address:

E-Mail:

Phone I Fax:

Moshe Calamaro and Associates, Inc.

CJG

930 Pitner Avenue Suite #7 (847) 733-0015 | (847) 733-0018 moshe@moshecal.com

Page: Project:

Sub-Project I Pos. No.: Date:

Profis Anchor 2.4.5

Car Outlet Sign 114004 1/15/2014

2 Load case/Resulting anchor forces

Load case: Design loads

Anchor reactions [kip]

Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	27.883	0.566	0.566	0.000
2	10.332	0.566	0.566	0.000
3	0.000	0.566	0.566	0.000
4	27.883	0.566	0.566	0.000
5	0.000	0.566	0.566	0.000
6	27.883	0.566	0.566	0.000
7	10.332	0.566	0,566	0.000
8	0.000	0.566	0.566	0.000
8 .			0.566	0.0

 \bigcirc_6 O_1 O_2

max. concrete compressive strain: max. concrete compressive stress:

0.40 [‰]

1721 [psi] 104.314 [kip] resulting tension force in (x/y)=(-7.217/0.000): resulting compression force in (x/y)=(9.099/0.000): 107.994 [kip]

3 Tension load

	Load N _{ua} [kip]	Capacity $_{\phi}N_n$ [kip]	Utilization $\beta_N = N_{uz}/\phi N_n$	Status
Steel Strength*	27.883	42.151	67	OK
Pullout Strength*	27.883	31.318	90	OK
Concrete Breakout Strength**	104.314	149.698	70	ок
Concrete Side-Face Blowout, direction **	N/A	· N/A	N/A	N/A

^{*} anchor having the highest loading **anchor group (anchors in tension)

3.1 Steel Strength

N _{sa} [kip]	φ	φN _{sa} [kip]	N _{ua} [kip]
56.202	0.750	42.151	27.883

3.2 Pullout Strength

N _p [kip]	Ψ с,р	ф	φN _{pn} [kip]	N _{ua} [kip]
44.740	1.000	0.700	31.318	27.883

3.3 Concrete Breakout Strength

A _{Nc} [in. ²]	A _{Nc0} [in. ²]	c _{a,min} [in.]	c _{ac} [in.]	ΨαΝ	Ψ ср ,Ν
7290.00	5184.00	**	0.000	1.000	1.000
e _{c1,N} [in.]	Wec1,N	e _{c2,N} [in.]		Wed.N	k _{er}
1.817	0.952	0.000	1.000	1.000	16
N _b [kip]	ф	φΝ _{ανα} [kip]	N _{ua} [kip]		
159.750	0.700	149.698	104.314		



-, 065k/ft 098k/ft

Loads: LC 4, Service: D+W Results for LC 1, 1.4D

Moshe Calamaro and Ass...

CJG

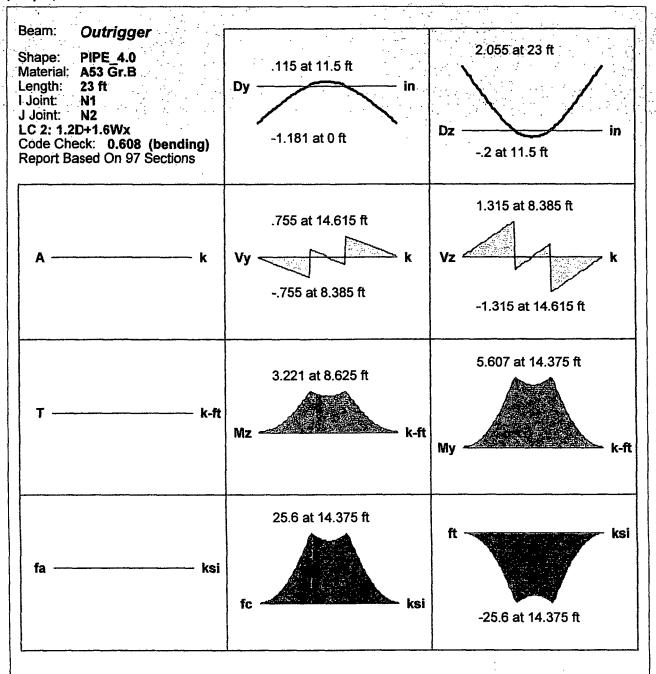
114004

Car Outlet Sign to Outrigger

SK - 1

Jan 16, 2014 at 1:05 PM

114004 Pipe 01.r3d



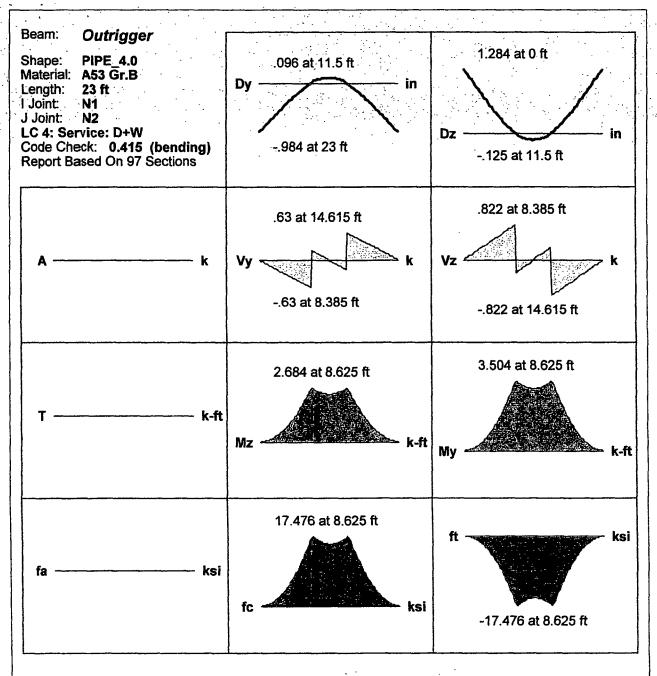
AISC 13th(360-05): LRFD Code Check Direct Analysis Method

phi*Tn

10.011 k-ft

		0.608 14.375 ft H1-1b		Max Shear Check Location Max Defl Ratio		0.054 (s) 8.385 ft L/122	
Bending F Bending V		Compact Compact		Compression Flange Compression Web			Non-Slender Non-Slender
Fy phi*Pnc phi*Pnt phi*Mny	35 ksi 20.226 k 93.24 k 10.631 k-		Lb KL/r	y-y 23 ft 181.829		z-z 23 ft 181.829	
phi*Mnz phi*Vny phi*Vnz	10.631 k- 27.972 k 27.972 k			p Flange Length ue	23 ft NC 23 ft		

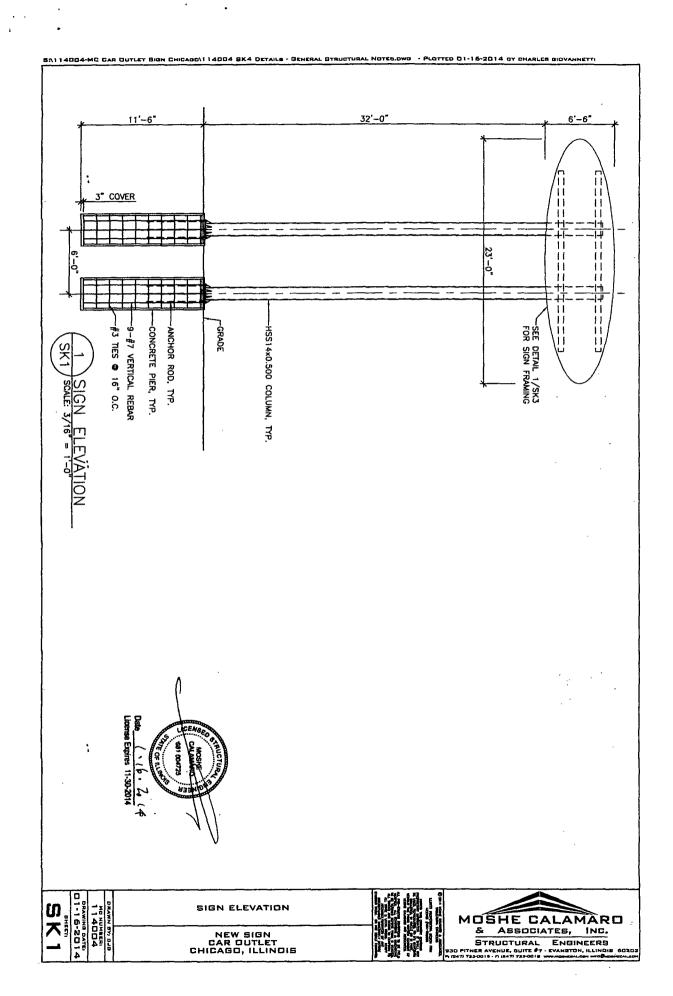
Tau_b



AISC 13th(360-05): LRFD Code Check Direct Analysis Method

Max Bendi Location Equation	ng Check	0.415 8.625 ft H1-1b		Max Shear Location Max Defl R		0.037 (s) 14.615 ft Ľ/196
Bending Flange Bending Web		Compact Compact	Compression Flange Compression Web		Non-Slender Non-Slender	
Fy phi*Pnc phi*Pnt phi*Mny	35 ksi 20.226 k 93.24 k 10.631 k-1	t .	Lb KL/r	y-y 23 ft 181.829	z-z 23 ft 181.829	

phi*Mny	10.631 k-ft		
phi*Mnz phi*Vny	10.631 k-ft 27.972 k	L Comp Flange	23 ft
phi*Vnz phi*Tn	27.972 k 10.011 k-ft	Warp Length L-torque Tau b	NC 23 ft 1
Ch	1		-



TOP OF HEAVY HEX HEAD ANCHOR RODS ₹ 5/16V2 ANCHOR No SCALE PLAN VIEW DETAIL THE PARTY PROJ. **EMB** 含 %"ø AND SMALLER ANCHOR E ų ROD RODS L3x3 CONTINUOUS CAP L3x3 VERTICAL, TYP. ADHESIVE ANCHOR ROD DETAIL NOT USED CODEDIATION:

ALL DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE CHECKED BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES ARE

ALL DIMENSIONS SHOWN ON THE EVENINEER

TO BE REPORTED IMMEDIATELY TO THE EVENINEER

THE INFORMATION CONTAINED IN THE STRUCTIVEAL DRAWINGS IS IN TISSLE INCOMPLETE AND YOUR UNLESS USED IN CONJUNCTION WITH ALL OF THE CONTRACT DOCUMENTS AND ALL SPECIFICATIONS, TRADE PRACTICES, APPLICABLE STANDARDS, CODES, ETC. INCORPORATED THEREIN BY REFERENCE. STRUCTURAL STEEL

ASTIM ASS FOR ALL MISCELLANEOUS STEEL FY = 38 KSI.

ASTIM ASS ORADE 8 FOR ALL ROUND HSS, Fy= 42 KSI.

ASTIM ASS GRADE 8 FOR ALL PIPE SHAPES, Fy= 35 KSI.

ASTIM ASS FOR ALL ½" DIAMETER BOLTS IN BEARING FOR. CONCRETE AND REINFORCEMENT.

ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE "AMERICAN CONCRETE INSTITUTE BUILDING CODE" (ACI 318) AND WITH "SPECIFICATIONS FOR STRUCTUPAL CONCRETE FOR BUILDINGS" (ACI 301), LATEST EDITIONS.

ALL CONCRETE SHALL OBTAIN THE FOLLOWING 28 DAY ULTIMATE COURSESSIVE STRENGTHS:

ALL CONCRETE SHALL OBTAIN THE FOLLOWING 28 DAY ULTIMATE COURSESSIVE STRENGTHS:

ALL CONCRETE SHALL OBTAIN THE FABRIC SHALL CONCRETE SUBJECTED TO FABS ON GRADE

REINFORCEMENT ORADES: BAR REINFORCEMENTS SHALL CONCRETE.

CALCINIA CHORDE OR ADMINITURES CONTINUING SAME, SHALL NOT BE PERMITTED IN ANY CONCRETE.

ALL CONCRETE SUBJECTED TO FREEZE-THAW SHALL BE 5% AIR-ENTRAINED. ALCOMABLE SOIL BEARING PRESSURE:

ALL FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 3000 PSF. IF FOR ANY REASON
THE INDICATED ALLOWABLE BEARING IS NOT ATTAINABLE AT ELEVATIONS SHOWN ON THE DRAWINGS, THE ENGINEER SHALL BE
NOTIFIED IMMEDIATELY.

BEARING SHALL BE ON VIRGIN, UNDISTURBED SOILS OR, IF FILL IS REQUIRED, SHALL BE APPROVED FOR USE BY AN
APPROVED TESTING LABORATORY, AND SHALL BE COMPACTED IN ACCORDANCE WITH APPROPRIATE ASTA STANDARDS TO OBTAIN
THE REQUIRED ALLOWABLE BEARING PRESSURE. <u>EXISTING CONDITIONS:</u> • CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL SIZES, DIMENSIONS, AND CONDITIONS AS SHOWN ON THE DRAWINGS. • IF CONDITIONS IN THE FIELD ARE DIFFERENT FROM WHAT IS SHOWN ON THE DRAWINGS, NOTIFY ENGINEER IMMEDIATELY. DESIGN_LOADINGS: ASTM F1554 GR. 36 (OR EQUAL) FOR ALL ANCHOR RODS.

ASTM F1554 GR. 36 (OR EQUAL) FOR ALL ANCHOR RODS.

ALL WELDING ELECTRODES SHALL BE E-70XX AND SHALL BE DONE BY WELDERS QUALIFIED IN ACCORDANCE WITH ANS STANDARDS AND RECOMMENDATIONS.

ALL STEEL SHALL BE FARENCATED, DETAILED, AND ERECTED IN ACCORDANCE WITH ANSO SPECIFICATIONS, AND WITH THE ANSO CODE OF STANDARD PRACTICE.

ALL CONNECTIONS SHALL BE WELDED OR BOLTED, EXCEPT WHERE SHOWN OTHERWISE.

ALL CONNECTIONS SHALL BE RESPONSIBLE FOR PROVIDING ALL MEANS NECESSARY TO INSURE THE STABILITY OF THE STEEL FRAME CONSTRUCTION, UNTIL ALL FINAL CONNECTIONS HAVE BEEN MADE AND THE FRAME IS SELF—SUPPORTING AND STABLE.

ALL STEEL SHALL RECEIVE TWO SHOP COATS OF RUST INHIBITIVE GRAY PRIMER.

PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION. SOLID SIGN. GENERAL STRUCTURAL NOTES CONNECTIONS (EXCLUDING ANCHOR RODS/BOLTS), EXCEPT AS .30 PSF License Expires 6: 11-30-2014 1-16-201 1 1 4004 MOSHE CALAMARO **7**4 & ASSOCIATES, INC. NEW SIGN CAR OUTLET CHICAGO, ILLINOIS

ENGINEERS

STRUCTURAL THER AVENUE, BUITE #7