

INDEX

2600 NE Andresen Rd, Suite 50 Vancouver, WA 98661 - P 360.693.4773 - F 360.693.2747 www.vancouversigngroup.com

Proposal:

We, Vancouver Sign Group, are proposing a monument sign for Bank of America at 6'6" illuminated monument sign for Bank of America at 10531 Scripps Poway Parkway San Diego California.

The signs aesthetics were chosen to match the latest in the Bank of America national branding scheme and the existing Bank of America branch at the location.

The location of the sign was chosen so that it would be visible to motorists while also not creating visual clutter to the shopping complex.

PAGE 1 – Site Plan **PAGE 2 – Elevation Drawings PAGES 3 thru 4 – Section Details PAGES 5 thru 9 – Engineering**

Name Design Date

VSG Rep *

Initial upon agreement

Located *

Designer *

Rev Date *

Rev no. '

Date Name



2600 NE Andresen Road Suite 50 Vancouver Washington 98661 360-693-4773 360-693-2747 Est. 1923

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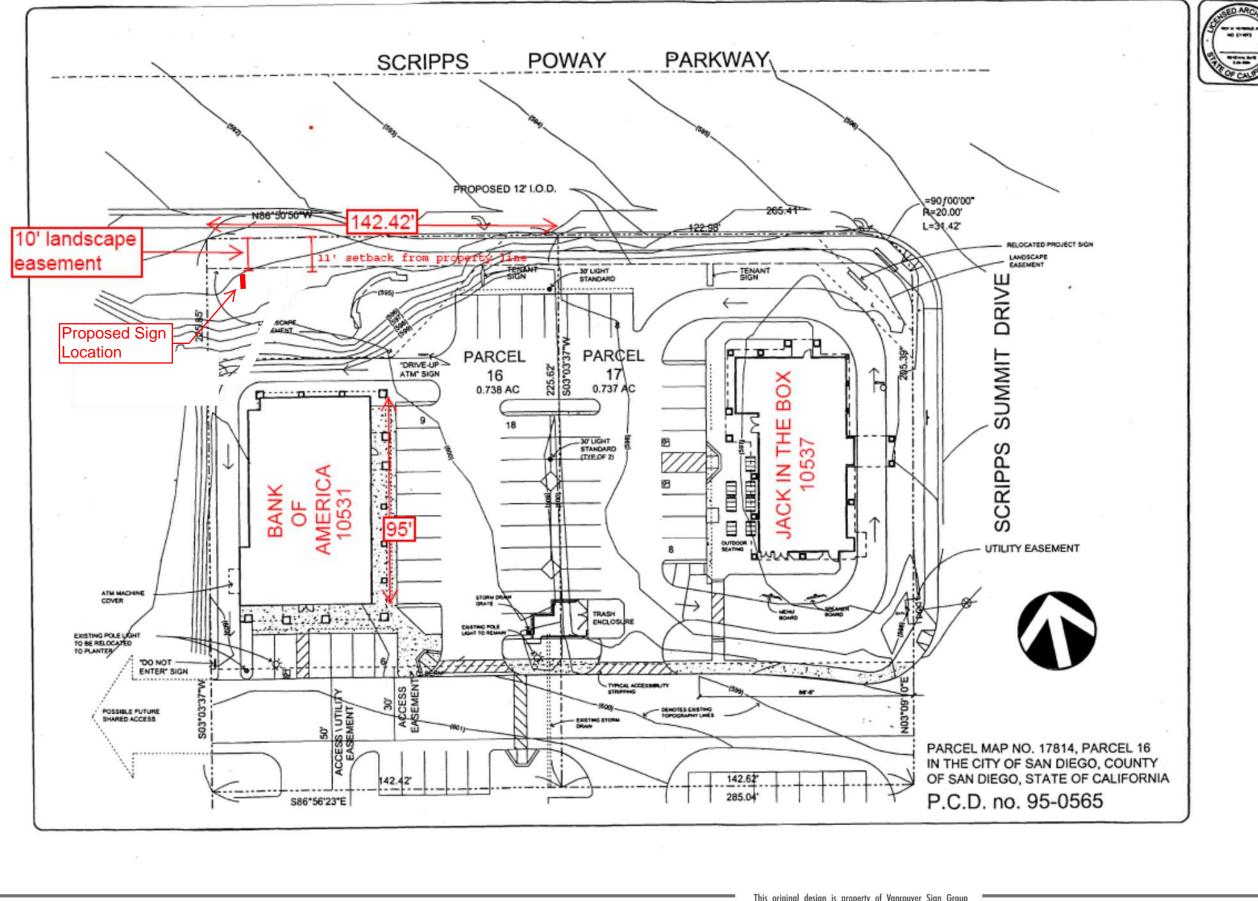


Landlord

Client

Address





BofA Scripps Poway R1.cdr Name Design 15-1084 8.3.15 Date VSG Rep Dick Miller

Located San Diego CA Designer Dustin Zarracina Rev Date 10.6.15 Rev no. 1

Client

Landlord

Initial upon agreement Date **Bank of America**

10531 Scripps Poway Parkway, San Diego CA 92131

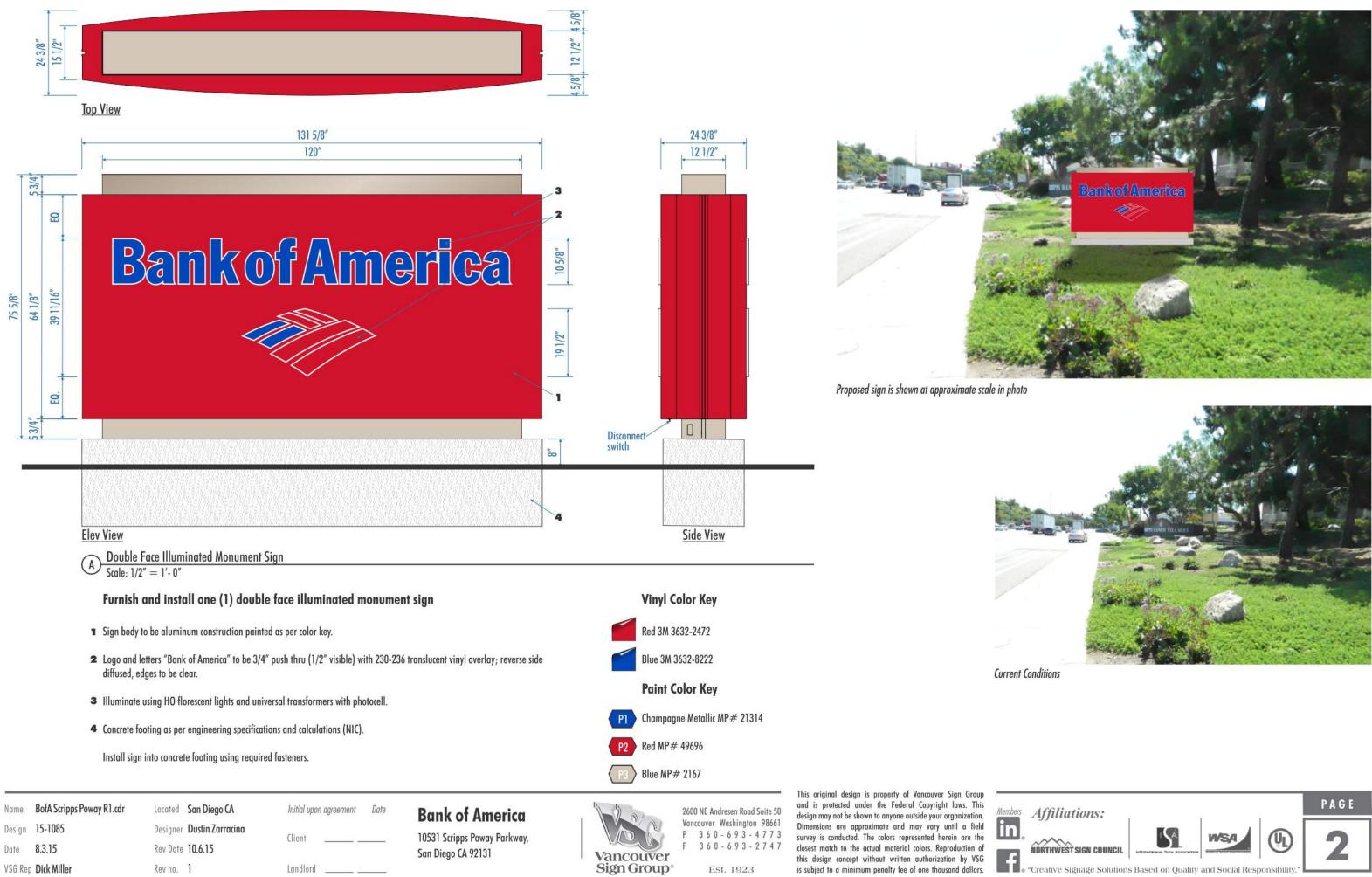
Vancouver Sign Group[®]

2600 NE Andresen Road Suite 50 Vancouver Washington 98661 360-693-4773 F 360-693-2747 Est. 1923

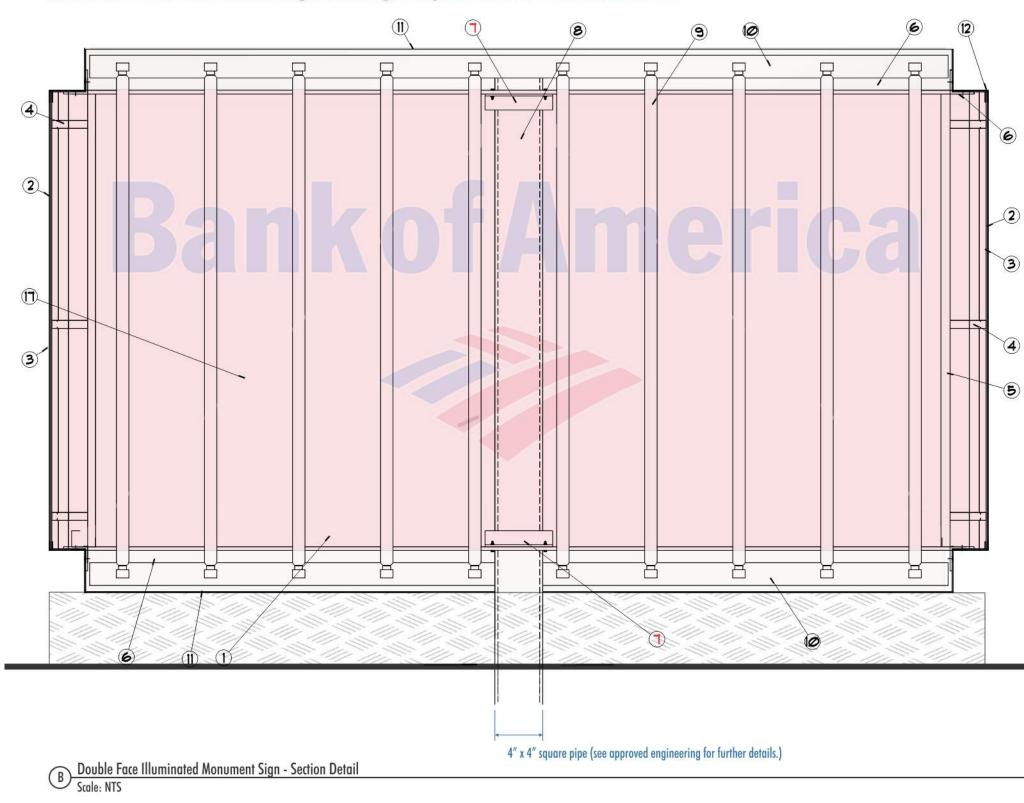
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Note: No field welds. Through bolt sign to pole at time of installation.



NOTES

WITH 3M BOA RED FILM, WEED OUT RETURNS AT ENDS OF FACE, DO NOT CONTRACTION AS REQ'D.

- 125' BREAK FORMED ALUMINUM REVEAL/RETAINER, PAINT FINISH ALL EXPOSED SURFACES RED SATIN FINISH TWO HALVES CLAMSHELL, WELD ONE HALF TO VERTICAL TUBE SUPPORT BEHIND. MECHANICALLY ATTACH SECOND HALF WITH COUNTER SUNK FLATHEAD STAINLESS STEEL SCREWS PAINT HEADS TO MATCH. 125' BREAK FORMED ALUMINUM RETURN, 3. WELD TO VERTICAL SUPPORT TUBE AS SHOWN
- SHOWN, PAINT ALL EXPOSED SURFACES WITH SPRAY-LAT STAR BRITE WHITE LIGHT ENHANCEMENT PAINT. 4. I'XI'X.125' ALUM, TUBE "OUTRIGGERS", FORM AS SHOWN, WELD TO VERTICAL CHANNEL TO OUTSIDE AND I'XI' VERTICAL TUBE TO INTERIOR. PAINT FINISH ALL EXPOSED
- SURFACES WITH SPRAY LAT STAR BRITE WHITE LIGHT ENHANCEMENT PAINT. 1-1/4'x1-1/4'x,125' ALUM, TUBE VERTICAL AS SHOWN, WELD TO ALUM, ANGLE FRAME TOP AND BOTTOM. PAINT FINISH ALL EXPOSED SURFACES WITH SPRAY LAT STAR BRITE WHITE LIGHT ENHANCEMENT PAINT.
- 2"× 2"× .25" ALUM, ANGLE FRAME, WELD AT CORNERS AS SHOWN, BOLT ATTACH TO STEEL ANGLES WELDED TO STEEL COLUMN AT TOP AND BOTTOM. PAINT FINISH ALL EXPOSED SURFACES WITH SPRAY LAT STAR BRITE WHITE LIGHT ENHANCEMENT PAINT.
- 1. 3"x3"x .25" STEEL ANGLE(S) WEDDED TO Through bolt STAR BRITE WHITE LIGHT ENHANCEMENT PAINT. HEAD STEEL COLUMN TO PROVIDE ALL PAINT TO BE TWO-PART POLYURETHANE. ATTACHMENT SURFACE FOR ALUM. ANGLE -COLOR FILM TO BE MATCHED IN 3M #3632 FRAME. SERIES FILM
- 8. HEAD STEEL SUPPORT COLUMN, SLEEVE INTO LOWER COLUMN AS REQ'D. PROVIDE STOP PLATE AND PLATE AT BOTTOM OF COLUMN TO PREVENT TURNING. FINAL SIZING OF ALL STRUCTURAL COMPONENTS TO BE BY A LICENSED STRUCTURAL ENGINEER TO MEET OR EXCEED ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES. (6"x6" SHOWN IN EXAMPLE ONLY), PAINT FINISH ALL EXPOSED SURFACES WITH SPRAY LAT STAR BRITE WHITE LIGHT ENHANCEMENT PAINT. T - 12 HO DAYLIGHT FLUORESCENT 9. BULB(S) AS REQ'D TO PROVIDE EVEN ILLUMINATION ACROSS SIGN FACE WITHOUT HOT SPOTS OR SHADOWS. USE TOMBSTONE FIXTURES TO EASE SERVICING.
- 10. UL. APPROVED ELECTRICAL RACEWAY AS REQ'D .125' BREAKFORMED ALUM. CLADDING/ACCESS PANEL. FORM AS SHOWN. PAINT FINISH CHAMPAGNE METALLIC. SEMI-GLOSS FINISH, ATTACH WITH COUNTERSUNK FLATHEAD STAINLESS STEEL SCREWS, PAINT HEADS TO MATCH.

- BofA Scripps Poway R1.cdr Name Design 15-1085a 8.3.15 Date VSG Rep Dick Miller
- Located San Diego CA Designer Dustin Zarracina Client Rev Date 10.6.15

Rev no. 1

Landlord ____

Initial upon agreement Date

Bank of America

10531 Scripps Poway Parkway, San Diego CA 92131



2600 NE Andresen Road Suite 50 Vancouver Washington 98661 360-693-4773 360-693-2747 Est. 1923

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- SIGN FACE TO BE .111" CLEAR ACRYLIC OUTLINE BASED ON .022B. OVERLAY WITH 3M BOA BLUE (RED AT FLAGSCAPE) FILM OUT TO THE DIMENSIONED CAP HEIGHT, CENTER IN WHITE BACKGROUND FOR EVEN OUTLINE AT PERIMETER. SECOND SURFACE DECORATE
- LETTERS/FLAGSCAPE TO EXTENT OF OUTLINE. OVERLAY ENTIRE SECOND SURFACE WITH 3M DIFFUSER FILM #3635-10 WHITE, HEAT BEND
- THERMOFORM (IT WILL STRETCH THE FILM AND CAUSE DISCOLORATION ON THE RETURN.) CHEM. WELD CONTINUOUS HANGING BAR AT
- TOP AS REQUIRED. 1/4"× 1/4" CLEAR ACRYLIC BAR USE A 1/4'x1/4' CLEAR ACRYLIC BAR AT BOTTOM. NOTE: CHEM, WELD CONTINUOUS
- VERTICAL RETENTION BLOCK AS REQ'D. AT END OF HEAT BENT RETURNS AS SHOWN. ALLOW SUFFICIENT ROOM FOR EXPANSION AND
- PIECES TO HAVE A IODEGREE FLANGE AS

090' ALUM, RETAINER, FORM AS SHOWN SIGN FACE TO BE THE CLEAR ACTOR FOR TO BE THE CLEAR ACTOR FOR THE FULL CHARACTER SIZE NCLUDING FLATHEAD STAINLESS STEEL SCREWS. PAINT FINISH RED. SATIN FINISH, ATTACH TO FLATHEAD STAINLESS STEEL SCREWS. PAINT HEADS TO MATCH.

- .125' ALUM, BREAKFORMED COLUMN 13, CLADDING, FORM AS SHOWN, PAINT FINISH CHAMPAGNE METALLIC, SEMI-GLOSS FINISH, ATTACH ONE HALF TO COLUMN, ATTACH OTHER HALF TO FIRST WITH COUNTERNTERSUNK FLATHEAD STAINLESS STEEL SCREWS IN REVEAL. PAINT HEADS TO MATCH
- BASE STEEL SUPPORT COLUMN, WELD 14 BASE PLATE AT BOTTOM AS REQ'D. FINAL SIZING OF ALL STRUCTURAL COMPONENTS TO BE BY A LICENSED STRUCTURAL ENGINEER TO MEET OR EXCEED ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES. (8'x8' SHOWN IN EXAMPLE ONLY),
- .125' ALUM. INTERIOR RETAINER RETURN. 15 FORM A S SHOWN, WELD 3/16" ALUM, PLATE AT BASE TO ACT AS RETAINER FOR ACRYLIC HANGING BLOCK.
- PROVIDE TEFLON TAPE TO INTERIOR OF 16. EXTERIOR RETAINER RETURN TO PROTECT FILM DECOARTED FACE FROM SCRATCHING
- 25" DIA, STEEL THREADED SAG ROD(S), 17. DOUBLE NUT ATTACH TO .25' ALUM ANGLE CLIPS" AT COLUMN AND BASE.

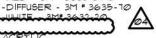
GENERAL NOTES

- -FINAL SIZING FOR ALL STRUCTURAL MEMBERS (I.e. COLUMNS, MATCH PLATES, CONNECTION BOLTS, ANCHOR BOLTS, FOUNDATIONS AND REINFORCEMENT) TO BE SIZED BY A LICENSED ENGINEER TO MEET OR EXCEED ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES
- FABRICATOR IS RESPONSIBLE FOR THE PREVENTION OF ANY LIGHT LEAKS.
- LEADS FROM BACK OF ILLUMINATED LETTERS SYMBOL SHALL BE A MINIMUM OF 6'-O' IN LENGTH MEASURED FROM THE BACK SURFACE OF THE LETTERS / SYMBOL. -PAINT INTERIORS OF ALL CABINETS WITH SPRAY-LAT

MATERIAL SPECIFICATIONS

PAINT

- -CHAMPAGNE METALLIC EITHER AKZO-NOBEL * BNK 250, MATTHEWS * MP 21314, MATTHEWS *SOA61945P, OR MATTHEWS *SVOCI2725P (VOC COMPLIANT)
- RED MATTHEWS RED * MP 49696, AKZO-NOBEL *SIGN 20129
- BLUE MATTHEWS BLUE MP 21670R 6595
- -WHITE MATTHEWS WHITE . MP 21668R 6595.
- FIL M
- -BLUE 3M # 3632-8222
- -RED 3M * 3632-2472

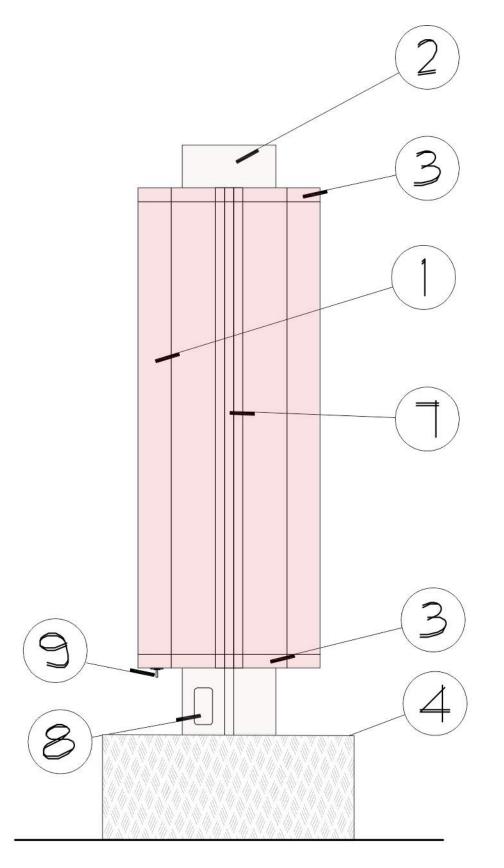


-CLEAR ACRYSTEEL FOR APPROVED EQUAL

FILM DECORATION CHANNEL LETTERS ONLY ACRYSTEEL #2441 OR APPROVED EQ. -WHITE TRANSLUCENT - ACRYSTEEL #1328 OR APPROVED EQ.



"Creative Signage Solutions Based on Quality and Social Responsibility





I. SIGN FACE TO BE .111' CLEAR ACRYLIC (ACRYSTEEL OR APPROVED EQUAL) FIRST SURFACE DECORATE WITH 3M 3632-20 WHITE CUT TO THE FULL CHARACTER SIZE INCLUDING OUTLINE BASED ON .022B. OVERLAY WITH 3M BOA BLUE (RED AT FLAGSCAPE) FILM CUT TO THE DIMENSIONED CAP HEIGHT, CENTER IN WHITE BACKGROUND FOR EVEN OUTLINE AT PERIMETER SECOND SURFACE DECORATE WITH 3M BOA RED FILM, WEED OUT LETTERS/FLAGSCAPE TO EXTENT OF OUTLINE. OVERLAY ENTIRE SECOND SURFACE WITH 3M DIFFUSER FILM *5635-70 WHITE. HEAT BEND RETURNS AT ENDS OF FACE. DO NOT THERMOFORM (IT WILL STRETCH THE FILM AND CAUSE DISCOLORATION ON THE RETURN.) CHEM. WELD CONTINUOUS HANGING BAR AT PERIMETER, SEE DETAIL.

NOTE:	WHERE REQU
	DICATED. USE
AS IN OR EI	LIMINATE SEAP

NOTES:

SIDE VIEW

Initial upon agreement Date

Landlord _____

NameBofA Scripps Poway R1.cdrDesign15-1085bDate8.3.15VSG RepDick Miller

Located San Diego CA Designer Dustin Zarracina Rev Date 10.6.15 Rev no. 1

Client _____ ___

Bank of America

10531 Scripps Poway Parkway, San Diego CA 92131 Vancouver Sign Group

2600 NE Andresen Road Suite 50 Vancouver Washington 98661 P 3 6 0 - 6 9 3 - 4 7 7 3 F 3 6 0 - 6 9 3 - 2 7 4 7 Est. 1923 This original design is property of Vancouver Sign Group and is protected under the Federal Copyright laws. This design may not be shown to anyone outside your organization. Dimensions are approximate and may vary until a field survey is conducted. The colors represented herein are the closest match to the actual material colors. Reproduction of this design concept without written authorization by VSG is subject to a minimum penalty fee of one thousand dollars.



JIRED, PLACE FILM SEAMS 60" MATERIAL TO MINIMIZE 15. %" OVERLAY MAX, .125' BREAKFORMED ALUM.

3.

CLADDING/ACCESSPANEL. FORM AS SHOWN. PAINT FINISH CHAMPAGNE METALLIC.

SEMI-GLOSS FINISH, ATTACH WITH COUNTERSUNK FLATHEAD STAINLESS STEEL

SCREWS, PAINT HEADS TO MATCH. .090' ALUM, RETAINER, FORM AS SHOWN.

- PAINT FINISH RED. SATIN FINISH. ATTACH TO CABINET RETURNS WITH COUNTERSUNK FLATHEAD STAINLESS STEEL SCREWS, PAINT HEADS TO MATCH.
- 4. .125' ALUM, BREAKFORMED BASE CLADDING, FORM AS SHOWN, PAINT FINISH CHAMPAGNE METALLIC, SEMI-GLOSS FINISH, ATTACH ONE HALF TO COLUMN, ATTACH OTHER HALF TO FIRST WITH COUNTERSUNK FLATHEAD STAINLESS STEEL SCREWS IN REVEAL, PAINT HEADS TO MATCH.
- 5. "BANK OF AMERICA" AND PORTION OF FLAGSCAPE TO BE FIRST SURFACE DECORATED WITH 3M FILM BOA BLUE. SEE
- DETAIL FOR DECORATION AND BEVEL SIZING. 6. PORTIONS OF FLAGSCAPE TO FIRST SURFACE DECORATED WITH 3M FILM BOA RED. SEE DETAIL FOR DECORATION AND
- BEVEL SIZING. 1. 125' BREAK FORMED ALUMINUM REVEAL/RETAINER, FORM AS SHOWN, SEE DETAIL, PAINT FINISH RED SATIN FINISH, TWO HALVES CLAMSHELL, WELD ONE HALF TO VERTICAL TUBE BEHIND, MECHANICALLY ATTACH SECOND HALF WITH COUNTERSUNK FLATHEAD STAINLESS STEEL SCREWS, PAINT HEADS TO MATCH.
- 8. PLACE PRODUCT LABEL HERE. SEE SHEET PL-I FOR DETAILS.
- 9. RECESSED UL. APPROVED EMERGENCY CUTOFF SWITCH.

GENERAL NOTES:

- -FINAL SIZING FOR ALL STRUCTURAL MEMBERS (1.e. COLUMNS, MATCH PLATES, CONNECTION BOLTS, ANCHOR BOLTS, FOUNDATIONS AND REINFORCEMENT) TO BE SIZED BY A LICENSED ENGINEER TO MEET OR EXCEED ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES.
- -FABRICATOR IS RESPONSIBLE FOR THE PREVENTION OF ANY LIGHT LEAKS.
- -LEADS FROM BACK OF ILLUMINATED LETTERS / SYMBOL SHALL BE A MINIMUM OF 6'-O' IN LENGTH MEASURED FROM THE BACK SURFACE OF THE LETTERS / SYMBOL. - PAINT INTERIORS OF ALL CABINETS WITH SPRAY-LAT STAR BRITE WHITE LIGHT ENHANCEMENT PAINT.
- -ALL PAINT TO BE TWO-PART POLYURETHANE, -COLOR FILM TO BE MATCHED IN 3M *3632 SERIES FILM,

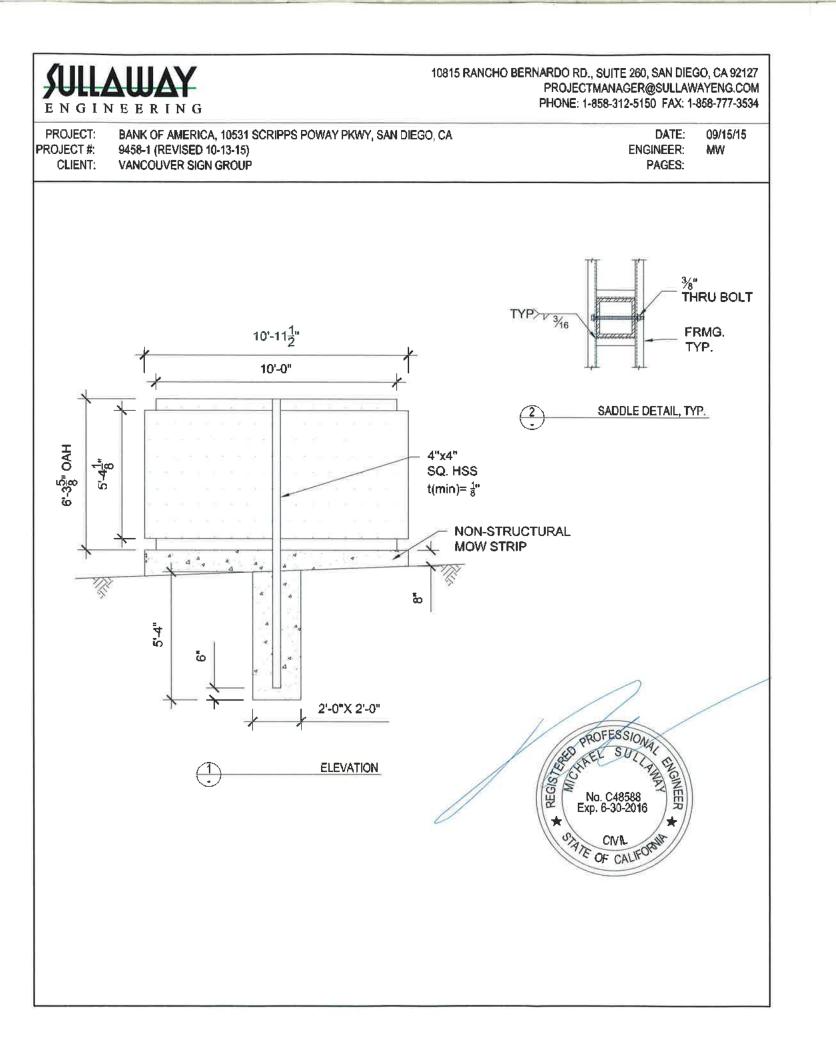
MATERIAL SPECIFICATIONS

PAINT

- -CHAMPAGNE METALLIC EITHER AKZO-NOBEL * BNK 250, MATTHEWS * MP 21314, MATTHEWS * 30A61945P, OR MATTHEWS * SVOCI2725P (VOC COMPLIANT)
- -RED MATTHEWS RED * MP 49696,
- AKZO-NOBEL *SIGN 20129
- -BLUE MATTHEWS BLUE "MP 21670R 6595, -WHITE - MATTHEWS WHITE " MP 21668R 6595.
- FILM
- -BLUE 3M * 3632-8222
- -RED 3M * 3632-2412
- -DIFFUSER 3M # 3635-10
- -ULUIE-3M#-3632-20

ACRYLIC

- -CLEAR ACRYSTEEL *OR APPROVED EQUAL
- -FILM DECORATION CHANNEL LETTERS ONLY, ACRYSTEEL *2441 OR APPROVED EQ. -WHITE TRANSLUCENT-ACRYSTEEL *1328 OR APPROVED EQ.
- ALL ROVED EQ.



PROJE	
CLIE	
GENI	ERAL NOTES
1.	DESIGN CODE: CBC 2013
2.	DESIGN LOADS: ASCE 7-10
3.	WIND VELOCITY: 110 MPH EXPOSURE C
4.	OCCUPANCY CATEGORY II, I = 1.0
5.	WELD STRENGTH Fext#70 KSI
6.	SQ./RECT. HSS STEEL ASTM A500 GR.B, Fy =46KSI MIN.
7.	LATERAL SOIL BEARING PER CBC CLASS 5 (100 PSF/FT
8.	ALUMINUM GRADE 6061-T6
9.	ANGLE/PLATE STEEL ASTM A36
10.	BOLT STEEL ASTM A307
11.	CONCRETE 2500 PSI MIN
7.	PROVIDE 3" MIN CLEAR COVER FOR ALL METAL IN CON
8.	PROVIDE PROTECTION AGAINST DISSIMILAR METALS
9.	PROVIDE ISOLATION BETWEEN STEEL IN CONTACT WIT
10.	GENERAL CONTRACTOR TO FIELD VERIFY EXISTING CO
10.	SIGN INSTALLATION
11.	NOTICE TO THE APPLICANT/OWNER/OWNER'S AGENT/
1982	CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INST
	WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FO
	CONSTRUCTION MATERIAL TESTING AND OFF-SITE FAI
	OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE
12.	NOTICE TO THE CONTRACTOR/BUILDER/INSTALLER/SU
14.	CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INST
	ARE AWARE OF, THE REQUIREMENTS CONTAINED IN 1
	WITH THE REQUIREMENTS OF THE CITY OF SAN DIEG
	CONSTRUCTION MATERIAL TESTING, AND OFF-SITE FA
	STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUI
13.	STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUI
13,	FABRICATION OF MEMBERS AND ASSEMBLIES ON THE
14.	STEEL FABRICATOR SHALL SUBMIT AN 'APPLICATION '
14.	DIVISION FOR APPROVAL PRIOR TO COMMENCEMENT
15.	STEEL FABRICATOR SHALL SUBMIT A 'CERTIFICATE OF
19,	STEEL FABRICATOR SHALL SOBMIT A CERTIFICATE OF SERVICES DIVISION PRIOR TO ERECTION OF FABRICA
16.	A PROPERTY OWNER'S FINAL REPORT FORM FOR WO
10.	STRUCTURAL OBSERVATION MUST BE COMPLETED BY
	ARCHITECT OF RECORD, ENGINEER OF RECORD AND
47	
17.9	THE SPECIAL INSPECTOR MUST BE CERTIFIED BY THE OF MEMBERS AND ASSEMBLIES ON THE PREMISES OF
40	
18.	THE SPECIAL INSPECTIONS IDENTIFIED ON PLANS ARI REQUIRED TO BE PERFORMED BY A CITY'S BUILDING II

10815 RANCHO BERNARDO RD., SUITE 260, SAN DIEGO, CA 92127 PROJECTMANAGER@SULLAWAYENG.COM PHONE: 1-858-312-5150 FAX: 1-858-777-3534

SAN DIEGO, CA	DATE:	09/15/15	
	ENGINEER:	MW	
	PAGES:		

RETE

I ALUMINUM NDITIONS ARE ADEQUATELY SUPPORTED AND CONNECTED PRIOR TO

CHITECT OR ENGINEER OF RECORD: BY USING THIS PERMITTED LLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS,

RICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT ALIFORNIA CONSTRUCTION CODES.

3-CONTRACTOR/ OWNER-BUILDER: BY USING THIS PERMITTED ALLATION OF THE WORK SPECIFIED HEREIN YOU ACKNOWLEDGE AND HE STATEMENT OF SPECIAL INSPECTIONS. YOU AGREE TO COMPLY FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS,

RICATION OF BUILDING COMPONENTS, CONTAINED IN THE

ED BY THE STATE OF CALIFORNIA CONSTRUCTION CODES.

IVED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES FOR THE PREMISES OF THE FABRICATOR'S SHOP.

D PERFORM OFF SITE FABRICATION' TO THE INSPECTION SERVICES IF FABRICATION.

COMPLIANCE FOR OFF-SITE FABRICATION' TO THE INSPECTION ED ITEMS AND ASSEMBLIES .

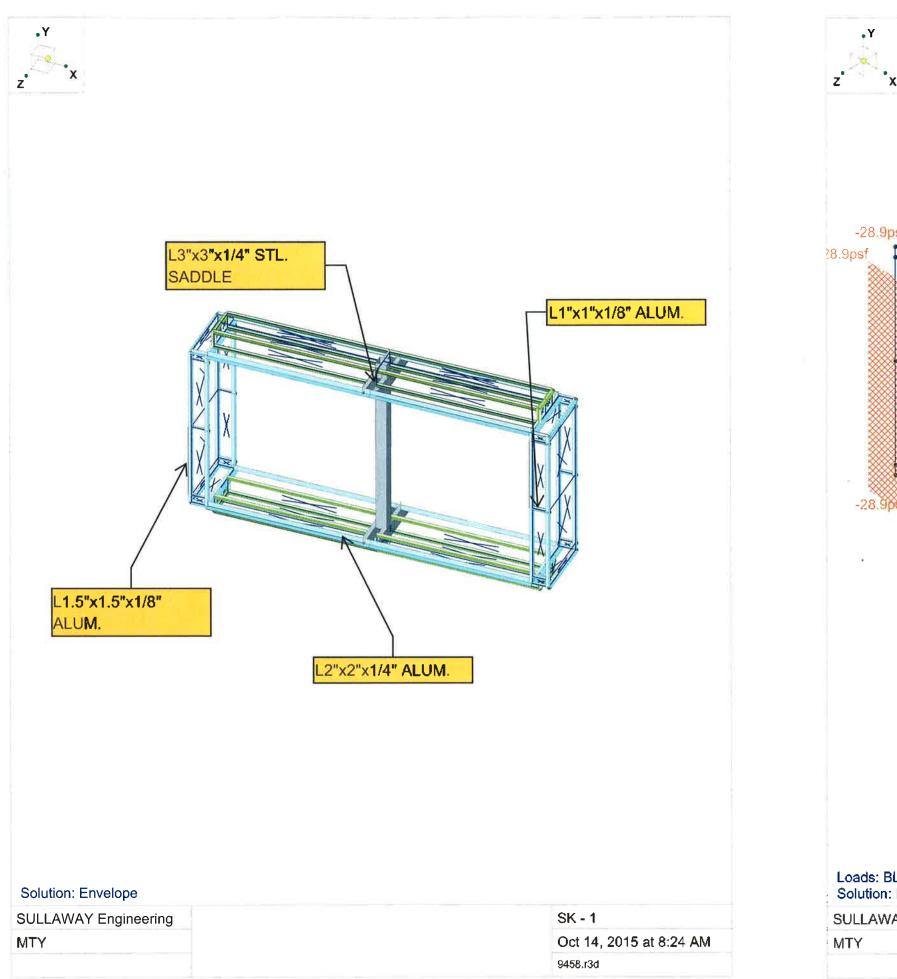
K REQUIRED TO HAVE SPECIAL INSPECTIONS, TESTING AND THE PROPERTY OWNER, PROPERTY OWNER'S AGENT OF RECORD, UBMITTED TO THE INSPECTION SERVICES DIVISION.

CITY OF SAN DIEGO, DEVELOPMENT SERVICES FOR THE FABRICATION THE FABRICATORS SHOP.

IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS SPECTOR.

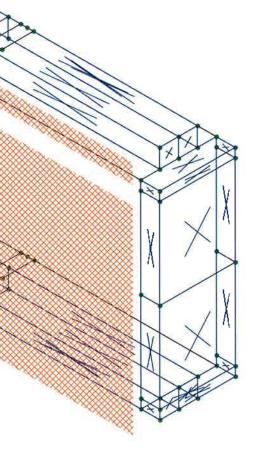
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Loads: BLC 2, WL 1 Solution: Envelope

SULLAWAY Engineering



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SULL	AWA'	¥								projectma	ardo RD., SD, CA 9 nager@sullawayeng	ig.com	Company : SULLAWAY Engineering Designer : MTY Job Number :	
	NEERIN PROJECT:								P	hone: 858-312-5	5150 Fax: 858-777- 10/13/15			
			AMERIC	JA					-				Global	
I	PROJ. NO.:	9458							E	INGINEER:	MW			
	CLIENT:	VANCOUN	VER SIG	SN GROU	JP								Display Sections for Member Calcs	5
9	building code:	CBC 2013							units;	pounds, feet u	inless noted other	rwise	Max Internal Sections for Member Calcs Include Shear Deformation?	37 Yes
	-									•			Include Warping?	Yes
pplied	l Wind Lo	ads; fro	m ASC	E 7-10									Trans Load Btwn Intersecting Wood Wall?	
	F=qz*G*Cf*A	ч	with q _z	z = 0.002	$56K_zK_{zt}K_dV^2$		(29.3.2	& 29.4)					Increase Nailing Capacity for Wind?	Yes
	C _f =		(Fig. 29.	(4-1)			,	max. h	eiaht=	: 7 1			Area Load Mesh (in ²)	144
								max. m	aigint				Merge Tolerance (in)	.12
	K _{zt} =	1.0	(26.8.2) (≉	≠1.0 unless	s unusual landsc	cape)							P-Delta Analysis Tolerance	0.50%
	K _z =	from table	28.3-1			Ex	posure=	С					Include P-Delta for Walls?	Yes
	K _d =	0.85	for signs	s (table 2	26.6-1)								Automaticly Iterate Stiffness for Walls?	No
	V=		-	- (10.510 -									Maximum Iteration Number for Wall Stiffne	
	_		mph										Gravity Acceleration (ft/sec^2)	32.2
	G=		(26.9)				weight=		kips				Wall Mesh Size (in)	12
	s/h=	0.887					M _{DL} =	0.00	k-ft				Eigensolution Convergence Tol. (1.E-) Vertical Axis	4 Y
	B/s=	1.74											Global Member Orientation Plane	XZ
													Static Solver	Sparse Acc
Pole	structure	height at			pressure			Wind					Dynamic Solver	Accelerated
		•	1					L					Dynamic contor	7100010101000
.oads	component	section c.g.	Kz	qz	q _z *G*C _f	A _f	shear	Moment	AIM.				Hot Rolled Steel Code	AISC 13th(3
	1	0.4	0.85	22.38	28.90	8.8	253	101					Adjust Stiffness?	Yes(Iterative
	2	3.9510417	0.85	22.38	28.90	69.0	1995	7881					RISAConnection Code	AISC 13th(3
3	_								=				Cold Formed Steel Code	AISI NAS-0
					sums:	77.8	2248	7.98	(M _w)	k-ft	arm= 3.6		Wood Code	AF&PA ND
		P.,=	0.93	kip			M=	7.98	k_ft	M=sqrt(M _{DL} ²	+M ²)		Wood Temperature	< 100F
		-		мр			141	1.00	N-IÇ	m-odi (mDL	· •••••• /		Concrete Code	ACI 318-05
	M _u =sqrt(1.2M _{DI}	2+1.6M _w ²) =	8	k-ft									Masonry Code	ACI 530-05
ole De	nnize		section	r tube									Aluminum Code	AA ADM1-1
_	<u> </u>				φ=	0.0	_	_					Number of Shear Regions	4
i _u ≤ φivi _n W	with $M_n = f_y Z$	f _y =		ksi	φ=	0.3							Region Spacing Increment (in)	4
	<u> </u>	M _u (k-ft)	Z req'	'd. (in)	Size(in)	t (in)	Z	USE					Biaxial Column Method	Exact Integ
	at grade	8.0	2.3	31	4	0.116	2.6			(4'', t(min)=	1/8"		Parme Beta Factor (PCA)	.65
								φMn =	8.23 k	<-ft			Concrete Stress Block	Rectangula
													Use Cracked Sections?	Yes
-ootin(g Design				print: rectan	-							Bad Framing Warnings?	No
	ω=	1.3	(CBC 160	05.3.2)	CBC Tal	ble 1606.	2, sections	1806.3.4	, 1807.	3.2			Unused Force Warnings?	Yes
	P=	1.75	kip		\$1 = S x	(d/3		A = 2.34	x P / (S	61 x b)	S= 267		Min 1 Bar Diam. Spacing?	No
		472	1-				4.36x h/A)			CBC 1807.3	21		Concrete Rebar Set	REBAR_SE
					ų –ų.ų <i>t</i> r			.07		000 1007.0	frems P		Min % Steel for Column	0
	A=	3.07											Max % Steel for Column	8
					footing:)" by a F" deep							

7
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44
12
.50%
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Z
Sparse Accelerated
ccelerated Solver
ISC 13th(360-05): LRFD
(es(Iterative)
AISC 13th(360-05): ASD
AISI NAS-01: LRFD
AF&PA NDS-05/08: ASD
: 100F
CI 318-05
ACI 530-05: ASD
A ADM1-10: ASD - Building
Exact Integration
65
Rectangular
/es
10
/es
10
REBAR_SET_ASTMA615

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7

Company	SULLAWAY Engineering	
Designer	MTY	
Job Number		

Global, Continued

Seismic Code	ASCE 7-10
Seismic Base Elevation (ft)	Not Entered
Add Base Weight?	No
Ct Z	.035
Ct X	.035
T Z (sec)	Not Entered
T X (sec)	Not Entered
RZ	8.5
RX	8.5
Ct Exp. Z	.75
Ct Exp. X	.75
SD1	1
SDS	1
S1	1
TL (sec)	Not Entered
Risk Cat	l or ll
Seismic Detailing Code	ASCE 7-05
Om Z	1
Om X	1
Rho Z	1
Rho X	1

Member Area Loads (BLC 2 : WL 1)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	N46	N53	N50	N40	Z	Two Way	-28.9
2	N78A	N79A	N96	N95	Z	Two Way	-28.9
3	N57	N63	N60	N54A	Z	Two Way	-28.9

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me	Surface(P.,
1	DL	DL		-1						
2	WL 1	WL							3	
3	Lr	LL								
4	SL	SL								
5	BLC 2 Transient Area	None				5		66		

Load Combinations

	Description	Sol	PD		BLC	Factor	BLC	Factor	BLC	Factor	BLC	Facto	BLC	Factor	BLC	Factor	BLC	Facto	BLC	Factor
1	DL		Y		1	1														
2	1.2DL + 1.6 WL		Y		1	1.2	2	1.6						-						
3	1.2DL -1.6 WL		Y		1	1.2	2	-1.6		_			-							
4	0.9DL+1.6WL		Y		1	.9	2	1.6			1									
5	0.9DL-1.6WL		Y		1	.9	2	-1.6					1							
6	dl + .6wl	Yes	Y		1	1	2	.6											-	
7	dl6wl	Yes	Y	2	1	1	2	6	_				1							
8	dl+.45wl+.75Lr	Yes	Y		1	1	2	.45	3	.75										
9	DL+SL	Yes	Y		1	1	4	1											1	
10	dl+.45wl+.75SL	Yes	Y		1	1	2	.45	4	.75										

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Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N1	max	0	6	.271	7	1.175	6	3.666	6	.001	7	Ó	6
2		min	0	7	.271	6	-1.175	7	-3.671	7	0	6	0	9
3	Totals:	max	0	6	.271	7	1.175	6						
4		min	0	7	.271	6	-1.175	7						

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (\1E	Density[k/ft	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A363	29000	11154	.3	.65	.49	103	1.1	58	1.2
3	A500 Gr.42	29000	11154	.3	.65	.49	42	1.3	58	1.1
4	A500 Gr.46	29000	11154	.3	.65	.49	46	1.2	58	1.1

Aluminum Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (.	Density["Table B.4	kt	Ftu[ksi]	Fty[ksi]	Fcy[ksi]	Fsu[ksi]	Ct
1	3003-H14	10100	3787.5	.33	1.3	.173	Table B	1	19	16	13	12	141
2	6061-T6	10100	3787.5	.33	1.3	.173	Table B	1	19	17.5	17.5	12	141
3	6063-T5	10100	3787.5	.33	1.3	.173	Table B	1	22	16	16	13	141
4	6063-T6	10100	3787.5	.33	1.3	.173	Table B	1	30	25	25	19	141
5	5052-H34	10200	3787.5	.33	1.3	.173	Table B	1	34	26	24	20	141
6	6061-T6 W	10100	3787.5	.33	1.3	.173	Table B	1	24	15	15	15	141
7	6063-T6W	10100	3787.5	.33	1.3	.173	Table B	1	17	8	8	11	141

Hot Rolled Steel Section Sets

	Label	Shape	Туре	Design List	Material	Design Rules	A [in2]	lyy [in4]	lzz (in4)	<u>J [in4]</u>
1	post	HSS4x4x2	Beam	Tube	A500 Gr.46	Typical	1.77	4.4	4.4	6.91
2	13"	L3x3x4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031

Aluminum Section Sets

	Label	Shape	Түре	Design List Material	Design Rules	A [in2]	lyy [in4]	lzz [in4]	J [in4]
1	2"	L2X2X0.25	Beam	Rectangular6061-T6 W		.944	.342	.342	.018
2	1"	LS1X1X0.125	Beam	Rectangular6061-T6 W	Typical	.234	.022	.022	.001
3	1.25	LS1.25X1.25X0	Beam	Rectangular6061-T6 W	Typical	.297	.044	.044	.001

Envelope AISC 13th(360-05): LRFD Steel Code Checks

	Member	Shape	Code Ch	Loc[ft]	LC	Shear Ch.	. Loc	Dir	LC	phi*Pnc [k]	phi*Pnt	phi*Mn .	phi*Mn z-z [k-ft]	ÇЬ	Eqn
1	M1	HSS4x4x2	.124	6.25	7	.020	5.903	Z	. 7	62.932	73.278		8.24	3	H1-1b
2	M24	L3x3x4	.052	0	6	.010	.139	z	7	45.634	46.656	1.688	3.755	2	H2-1
3	M20	L3x3x4	.048	0	6	.010	.639	z	6	45.634	46.656	1.688	3.755	2	H2-1
4	M26	L3x3x4	.045	0	6	.008	.056	Z	6	45.634	46.656	1.688	3.755	2	H2-1
5	M18	L3x3x4	.041	0	6	.008	.194	z	6	45.634	46.656	1.688	3.755	1.79	H2-1
6	M35	L3x3x4	.014	.17	6	.004	0	z	6	46.626	46.656	1.688	3.755	1	H2-1
7	M30	L3x3x4	.014	0	7	.006	0	z	7	46.626	46.656	1.688	3.755	1.67	H2-1
8	M34	L3x3x4	.009	0	7	.004	.005	z	7	46.626	46.656	1.688	3.755	1	H2-1
9	M25	L3x3x4	.009	.194	6	.003	.194	Y	6	45.634	46.656	1.688	3.755	1	H2-1
10	M31	L3x3x4	.008	.17	6	.003	0	y	6	46.626	46.656	1.688	3.755	1	H2-1
11	M19	L3x3x4	.007	.194	6	.003	.667	z	6	45.634	46.656	1.688	3.755	1.76	H2-1
12	M21	L3x3x4	.006	.194	7	.002	.194	V	7	45.634	46.656	1.688	3.755	2.13	H2-1
13	M37	L3x3x4	.005	.17	6	.002	0	ý	7	46.626	46.656	1.688	3.755	1	H2-1
14	M27	L3x3x4	.004	.194	7	.002	.194	y	6	45.634	46.656	1.688	3.755	1.44	H2-1
15	M36	L3x3x4	.004	0	6	.003	.17	ÿ	6	46.626	46.656	1.688	3.755	1	H2-1

RISA-3D Version 11.0.2

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Company	: SULLAWAY Engineering	Oct 14, 2015	Company	: SULLAWAY E	ALUM. ANGLE CHEC
Designer	: MTY	9:03 AM	Designer	: MTY	
Job Number	:	Checked By:	Job Number	:	

Envelope AISC 13th(360-05): LRFD Steel Code Checks (Continued)

	Member	Shape	Code Ch	Loc[ft]	LC	Shear Ch	Loc	Dir	LC	phi*Pnc [k]	phi*Pnt	phi*Mn .	ohi*Mn z-z [k-ft]	ÇЬ	Egn
16	M41	L3x3x4	.003	.17	7	.002	0	y	7	46.626	46.656	1.688	3,755	1	H2-1
17	M40	L3x3x4	.003	0	7	.001	.17	ý.	6	46.626	46.656	1.688	3.755	1	H2-1

Envelope AA ADM1-10: ASD - Building Aluminum Code Checks

	Member			Loc[ft]	LC	Shear			LC		Pnt/Om.		z/O Vny/O		
1	M2	LS1.25X1.		5.25	7	.095	5.104		7	.233	2.7	- Code	.852	.852	H.3-1
2	M3	LS1.25X1.			6	.057	5.104	y		.233	2.7	- Code	.852	.852	H.3-1
3	M4	LS1.25X1.		5.25	7	.105	0	V	6	.233	2.7	- Code	.852	.852	H.3-1
4	M5	LS1.25X1.		5.25	6	.065	0	y	7	.233	2.7	- Code	.852	.852	H.3-1
5	M6	L2X2X0.25	5 .018	1.5	6	.059	1.5	Y	7	5.616		- Code	2.727	2.727	H.3-1
6	M7	L2X2X0.25		0	6	.293	1.5	y	6	5.616		- Code	2.727	2.727	H.3-1
7	M8	L2X2X0.25		1.5	6	.069	1.5	Y	7	5.616		- Code	2.727	2.727	H.3-1
8	M9	L2X2X0.25		0	6	.312	1.5	y	6	5.616		- Code	2.727	2.727	H.3-1
9	M10	L2X2X0.25		0	6	.039	4.722	Ζ	6	1.965	8.582	- Code	2.727	2.727	H.3-1
10	M11	L2X2X0.25	.094	.278	6	.041	.278	z	6	1.965	8.582	- Code	2.727	2.727	H.3-1
11	M12	L2X2X0.25		0	7	.006	5	z	7	1.965	8.582	- Code	2.727	2.727	H.3-1
12	M13	L2X2X0.25	5 .038	0	7	.006	0	z	7	1.965		- Code	2.727	2.727	H.3-1
13	M14	L2X2X0.25	.045	4.861	7	.046	4.722	Z	7	1.965	8.582	- Code	2.727	2.727	H.3-1
14	M15	L2X2X0.25	5 .045	0	7	.041	.278	z	7	1.965	8.582	- Code	2.727	2.727	H.3-1
15	M16	L2X2X0.25	5 .058	0	6	.006	5	V	6	1.965		- Code	2.727	2.727	H.3-1
16	M17	L2X2X0.25	5 .043	0	6	.006	.139	v	6	1.965	8.582	- Code	2.727	2.727	H.3-1
17	M42	LS1.25X1.	222	5.25	6	.064	5.104	V	7	.233	2.7	- Code	.852	.852	H.3-1
18	M43	LS1.25X1.		5.25	7	.053	5.104		7	.233	2.7	- Code	.852	.852	H.3-1
19	M44	LS1X1X0		0	6	.087	0	V	6	1.618	2.127	- Code	.682	.682	H.3-1
20	M46	LS1X1X0		0	6	.095	0	v	7	1.618	2.127	- Code	.682	.682	H.3-1
21	M47	LS1X1X0		0	7	.060	0	v	7	1.618	2.127	- Code	.682	.682	H.3-1
22	M48	LS1X1X0		0	6	.018	0	v	7	1.618	2.127	- Code	.682	.682	H.3-1
23	M49	L\$1X1X0		0	7	.013	0	v	7	1.618		- Code	.682	.682	H.3-1
24	M49A	LS1X1X0		0	7	.055	.5	v	6	1.618	2.127	- Code	.682	.682	H.3-1
25	M50	LS1.25X1.		5.25	6	.053	0	v		.233	2.7	- Code	.852	.852	H.3-1
26	M51	LS1.25X1.		5.25	7	.052	0	z	6	.233	2.7	- Code	.852	.852	H.3-1
27	M52	LS1X1X0.		0	6	.092	0	v	7	1.618	2.127	- Code	.682	.682	H.3-1
28	M53	LS1X1X0.	and the second sec	Ő	6	.090	.5	v	7	1.618	2.127	- Code	.682	.682	H.3-1
29	M54	LS1X1X0.		Ő	7	.055	.5	v	7	1.618	2.127	- Code	.682	.682	H.3-1
30	M55	LS1X1X0.		0	6	.018	0	v	6	1.618	2.127	- Code	.682	.682	H.3-1
31	M56	LS1X1X0.		ŏ	7	.013	.5	v	7	1.618		- Code	.682	.682	H.3-1
32	M57	LS1X1X0		Ő	7	.061	0	v	6	1.618		- Code	.682	.682	H.3-1
33	M59	LS1.25X1.		Ő	7	.002	2	v	1.7.2.4	1.319	2.7	- Code	.852	.852	H.3-1
34	M60	LS1.25X1.		Ő	7	.002	0	v	7	1.319	2.7	- Code	.852	.852	H.3-1
35	M62	LS1.25X1.		0	7	.013	Ő	_	7	1.939	2.7	- Code	.852	.852	H.3-1
36	M63	LS1.25X1.		Ö	6	.010	0		7	1.939	2.7	- Code	.852	.852	H.3-1
37	M64	LS1.25X1.		0	6	.026	0	Z		1.939	2.7	- Code	.852	.852	H.3-1
38	M65	LS1.25X1.		0	6	.013	.472		7	1.939	2.7	- Code	.852	.852	H.3-1
39	M66	LS1.25X1.		0	7	.001	0	V	1.1	1.319	2.7	- Code	.852	.852	H.3-1
40	M67	LS1.25X1.		Ő	6	.018	ŏ	z	1.1	1.939	2.7	- Code	.852	.852	H.3-1
41	M68	LS1.25X1.		0	7	.010	0	Z		1.939	2.7	- Code	.852	.852	H.3-1
42	M68A	LS1.25X1.		ŏ	6	.005	0	V		1.319	2.7	- Code	.852	.852	H.1-1
	and the last sufficient for the second		And in case of the local division of the loc				and the second se					and the second se			H.3-1
A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O	a standa Conce														H.3-1
42 43 44	M68A M69 M70	LS1.25X1. LS1.25X1. LS1.25X1.		0	6 7 6	.005 .011 .029	0	z	1.12	1.939	2.7 2.7 2.7	- Code - Code	.852 .852 .852	.852 .852 .852	

	Mambar			ectio					10	v Tep[kei]	10	Potfkei	11.0	z-Top[ksi]	10	Zaot[ksi]	LC
1	Member M7	Sec 1	max			1.494				.738	7	.76	6	6.293	7		6
2	1117	1	-			-1.561				76	6	738	7	-6.214	6	-7.71	7
3		2	max	.239		1.493		.218		4.71	6	5.081	7	8.62	6	11.056	7
4		4		237		-1.563				-5.081	7	-4.71	6	-9.025	7	-10.561	6
5		3	max	0	6	0	6	0	8	0	9	0	7	0	9	.001	7
6			min	0	7	Ő	7	Ő	9	0	7	0	9	001	7	0	9
7		4	max	10.00	-	1.913			_	4.715	7	5.068	6	8.888	-	11.356	6
8						-1.848		05	6	-5.068		-4.715		-9.269		-10.889	7
9		5	max	.128		1.912		.036	7	3.355	6	3.374	7	6.87	6		7
10			min	127		-1.85		05	6	-3.374	7	-3.355	6	-6.82	7	-8.416	6
11	M9	1	max	.232		1.529			7	2.718	7	2.752		3.372	7	4.015	6
12			min	233		-1.596		293	6	-2.752		-2.718		-3.277	6	-4.131	7
13		2	max	.232		1.528		.304	7	5.062		5.437	7	7.432	6	9.599	7
14	· · · · · ·		min	233		-1.598		293	6	-5.437	7	-5.062	6	-7.835	7	-9.105	6
15		3	max	0	6	0	6	0	8	0	9	0	7	0	9	.001	7
16			min	0	7	0	7	0	9	0	7	0	9	001	7	0	9
17		4	max			1.95				4.828	7		6	8.553	****	10.948	6
18			min			-1.885				-5.178		-4.828	7	-8.936		-10.479	7
19		5	max	.11		1.949		.028		3.353	6	3.383	7	7.624	.6		7
20			min			-1.886			1.00	-3.383		-3.353	1000	-7,546	7	-9.34	6
21	M4	1	max		7		6	.218	7	6.8	7		6	3.573	6		7
22			min	073	6	514				-6.806	6	-6.8	7	-3.765	7		6
23		2	max				6			1.235	6		7	1.833	7	2.225	6
24			min		6	013	7	056		-1.207	7	-1.235	6	-1.842	6		7
25		3	max	and the party of the local division of the	7	.012	6	.349		.832	7	.817	6	3.114	6		7
26					6		7	1010		817	6	832	7	-3.089	7		6
27		4	max		7	.025	7			1.481	6	1.53	7	1.905	7		6
28	_					025	6	063		-1.53	7	-1.481		-1.884	6		7
29		5		1.089		.259	7	.131	6	5.522	7	5.433	6	4.599	6	5.4	7
30				-1.061				144		-5.433	and here the	-5.522		-4.471	7	and the second se	6
31	M1	1	max	.204			7	.048		.039	6	.02	7	1.168	7		6
32		-					6	048		02	7	039	6	-1.167	6	the second se	7
33		2	max		7	0	7			.001	6	.01	7	.168	7	.166	6
34		-		099		0	6			01	7	001	6	166	6	and a second sec	7
35		3	max		7	0	7			003	6	.003	7	1.444	6	and the second se	7
36		-		093		0	6			003	7	.003	6	-1.448	7		6
37		4			7	0	1	.223		.003	7	.007	6	3.056	6		7
38		F		088		0		223		007		003		-3.061	7		6
39		5		.268				.496		.056	7	.003		5.339	6		7
40	140	1				.007					6	056		-5.342	7	and the second sec	6
41	M2	- K	max			.389						6.015		3.963	6	1	7
42		2				422				-6.015		-6.247		-3.918	7		6
43		4	max			.009				1.356	6	1.32	7	1.93	7		7
44 45		2				.009				.804	77	-1.356 .782		-1.951 3.215	6 6		7
		3				009				782	6	804	6	-3.179	7	Line - Course of the	6
46		A				.027				1.271		1.324		1.841	7		6
47 48		4				027						-1.271		-1.807	6		7
48 49		E				.421		065		6.498		6.642		3.841	6		7
49 50		5				-,444						-6.498		-3.936	7		6
	MAE	1				.333				4.005				2.19	7		
51	M5	-										4.217			1.52		6
52]	2				301					Contraction of the second seco	-4.005		-2.262	6	and the second sec	7
53		2		.322				.012		.433	7	.468	6	.276	6	the second se	
54		0				019				468	6	433		253	7		6
55 56		3		.591		019		.012		.99 -1.01	7	1.01	6	.309	6		7

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