IMPROVING OUR COMMUNITY



COLUMBIA GATEWAY URBAN RENEWAL AGENCY

AGENDA COLUMBIA GATEWAY URBAN RENEWAL ADVISORY COMMITTEE

Conducted in a Handicap Accessible Meeting Room Tuesday, October 18, 2016 5:30 pm City Hall Council Chambers 313 Court Street

The Dalles, Oregon

- I. CALL TO ORDER
- II. **ROLL CALL**
- III. PLEDGE OF ALLEGIANCE
- IV. APPROVAL OF AGENDA
- V. APPROVAL OF MINUTES – June 21, 2016 September 7, 2016
- VI. PUBLIC COMMENTS (For items not on the agenda)
- VII. ACTION ITEM - Recommendation Concerning Urban Renewal Property Rehabilitation Façade Improvement Grant Request – Lemke Building
- VIII. ONGOING URBAN RENEWAL PROJECTS UPDATE
 - IX. FUTURE MEETING – November 15, 2016
 - X. **ADJOURNMENT**

IMPROVING OUR COMMUNITY



COLUMBIA GATEWAY URBAN RENEWAL AGENCY CITY OF THE DALLES

AGENDA STAFF REPORT

URBAN RENEWAL ADVISORY COMMITTEE

MEETING DATE	AGENDA LOCATION	AGENDA REPORT #
October 18, 2016		

DATE:

October 5, 2016

TO:

Urban Renewal Advisory Committee

FROM:

Eric Nerdin, Urban Renewal Contract Consultant

Mid-Columbia Economic Development District, Loan Fund Manager

ISSUE:

Urban Renewal Property Rehabilitation Façade Improvement Application

Review and Recommendation to the Agency Board for Hillis Hew

Enterprises, LLC / Hew Hillis.

BACKGROUND:

The Lemke Building located at 110 E. 2nd Street, The Dalles, Oregon, 97058, is within The Dalles Urban Renewal Zone and is owned by Hillis Hew Enterprises, LLC. This two-story brick building was constructed in 1910 (See note at end of this section for more information on building construction date). The main elevation displays the only white glazed brick used in the downtown area. The building has examples of classic detailing, including brick keystones with flat voussoirs above upper front windows and a six-course corbelled cornice.

Ferdinand Lemke, a German watchmaker, came to The Dalles from San Francisco after the gold rush. He opened a saloon called the Yellowstone across First Street from the Umatilla House hotel. Lemke's saloon was damaged by a fire in 1909 and the fire marshal, who owned a competing saloon, condemned the building. Lemke had this Renaissance Revival-style building constructed in 1910 to replace it and reopened his saloon. The Lemke Saloon was also home to a bordello on its top floor, according to owner, Hewitt Hillis. It was also a speakeasy during prohibition, with city hall, police and the fire department housed just across the alley.

Later on this building housed the Parlor Grocery (listed as occupant in 1926) and A.S. Milne meat cutters. The building was purchased from the Lemke family by Joseph Hillis in 1971. The Oregon Equipment Company operated out of this building for decades and the current business tenant is Lines of Designs – Clothing That Fits.

Note: Historical building background and architecture information listed above was not provided with the application and was sourced from the internet by staff to provide context for this project. Most online resources list this building as being built in 1910; however it is listed in a 1997 property inventory for the National Register of Historic Places as being built in 1912. This building is listed as #67 in the historic commercial district secondary classification inventory.

PROJECT DESCRIPTION:

The existing awning will be removed and replaced with a new flat awning with guy wire cables similar in construction to the Commodore II building's awning and will include recessed lighting. The removal of the existing awning will expose a plywood and 2x4 wood plug that was put in place when the transom windows were removed. This plug will be taken out and new transom windows will be installed that are similar in style to the original transom windows as shown in historic photos. This will include the transom window over the door located at the east side of the facade.

Finally, the interior drop ceiling just inside the storefront will be beveled up above the new transom windows to allow light in and make the transom windows fully functional. This project will substantially improve the look of this historic downtown building located near a prominent corner, as well as bring back hidden historic features.

Please see the application and attached construction bids and architecture elevations and information for more details on this project.

According to the application, this project will include \$39,919 of building façade, building exterior improvements and limited interior work, which is related to the transom windows being added as part of this building façade improvement project.

This project received approval from the City of The Dalles Historic Landmark Commission at its meeting on January 27, 2016.

APPLICATION:

The application from Hillis Hew Enterprises, LLC / Hew Hillis was received on July 22, 2016. This application is for an Urban Renewal Façade Improvement Grant of \$20,000 to assist with this \$39,919 building façade improvement project. The applicant will contribute \$19,919, which exceeds the 50% match required for urban renewal grant request amounts of \$20,000 or less.

Note: The applicant has already completed the required engineering study. The cost of this study was paid for by the applicant and is not included as a cost in this project's budget, but is part of other monies used by applicant to support this project.

Expected Project Costs

The expected project costs as listed in the application total \$39,919.00. Please see the application and attached construction bids for more detailed cost information for this project.

Proposed Fund Sources

 Applicant:
 \$19,919.00

 Urban Renewal Grant:
 \$20,000.00

 Total:
 \$39,919.00

These proposed project costs and funding sources are provided by the applicant. Documentation verifying applicant funds must be provided to The Dalles Urban Renewal Agency prior to grant funding, if grant applicant is approved.

BUDGET IMPLICATIONS:

This fiscal year there was \$200,000 budgeted for new Property Rehabilitation Projects, including façade improvement grants. Thus far, the Agency has approved a total of \$83,575.63 with \$67,325.63 in grants for façade improvement and \$16,250 for Civic Improvement Grants. There is \$116,424.37 remaining for future applications.

If this \$20,000 grant application is approved, the remaining funds available would be \$96,424.37.

STAFF REVIEW:

Staff has reviewed the \$20,000 Urban Renewal Property Rehabilitation Façade Improvement Grant application from Hillis Hew Enterprises, LLC / Hew Hillis and has determined that it meets the minimum criteria as set forth by the Urban Renewal Agency.

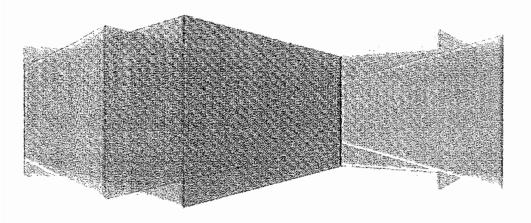
Staff further offers the following options for the Urban Renewal Advisory Committee:

- 1. Recommend approval by the Urban Renewal Agency Board of a \$20,000 Urban Renewal Property Rehabilitation Façade Improvement Grant to Hillis Hew Enterprises, LLC / Hew Hillis to be used for façade improvements, as presented, on the building located at 110 E. 2nd Street, The Dalles, Oregon, with the condition that the applicant provide the following information to staff:
 - a. Applicant to provide documentation of match funds availability.
- 2. Recommend that the Urban Renewal Agency deny the grant request.

THE DALLES

URBAN RENEWAL AGENCY

PROPERTY REHABILITATION GRANT AND LOAN PROGRAMS



MAY CONTAIN CONFIDENTIAL INFORMATION

Application Date: 7/15/16 Application Number:	
PROGRAM APPLYING TO (Check One)	
□ Historic Design and Restoration Program □ Redevelopment of Unused & Underused Property Program □ Loan Interest Subsidy Program □ Demolition Loan Program □ Civic Improvements Grant Program □ Façade Improvement Grant Program □ Residential Structure	
APPLICANT INFORMATION	
Applicant Name: Hewitt Hillis	
Contact Person:	
Mailing Address: 1505 W 1st St., The Dalles, OR 97058	
Applicant is: Owner ■ Leaser □	
Phone Number: 541-296-2915 Email:	
Federal Tax ID or Social Security Number:(Loan & Interest Subsidy Only)	
Bank of account and contact: (Loan & Subsidy Only)	
Name of Business: Hillis Hew Enterprises LLC	
Business Mailing Address: 1505 W 1st St., The Dalles, OR 97058	

Name of Principle: Hewitt Hill	is
Site Address	Legal Description
110 E 2nd St., The Dalles OR	1N 13E 3 BC 200
* Trade - consequent and all the	USE) YES NO (If yes, requires HLC approval)
PROJECT INFORMATION	45.000
Building Age: 1910	Building Square Footage: 15,000
Building Current Use: Reta	ail
Building Planned Use: Reta	ail
Project Description Outline:	
	ved and replaced with a new flat awning with guy n to the Commodore II's awning and will include
was put in place when the transo out and new transom windows wi	ng will expose a plywood and 2x4 wood plug that m windows were removed. This plug will be taken II be installed that are similar in style to the original storic photos. This will include the transom window side of the facade.
	st inside the storefront will be beveled up above the ht in and make the transom windows fully functional.
located near a prominent corner a	rove the look of this historic downtown building as well as bring back hidden historic features. It will setscape of the downtown. A multitude of projects t impact on the downtown.
The applicant has already comple and received HLC approval.	eted the required engineering study for the project

EXPECTED PROJECT COSTS

Cost Item/Source:	Est. Cost
Awning fabrication and installation	_{\$} 13,700.00
Demoltion, install of steel beams & bracing, framing of windows, trim, lighting, bevelling of ceiling	_{\$} 26,219.00
	\$
	\$
	\$
	\$
	\$
	\$
	\$
	\$
	\$
	\$
	\$
	\$
Total Expected Cost	\$39,919.00

Will there be an anticipated contractor's pre-payment for construction materials prior to the start of the project? YES ■ NO □ If yes, list the estimated dollar amount: \$1/3 for awning, 1/2 for other work

(For Civic Improvement or Façade Improvement Grants only)

The Dalles Urban Renewal Agency Property Rehabilitation Grant and Loan Programs -APPLICATIONPROPOSED SOURCES OF FUNDING (loans)

	Source	Amount	Rate	Term	Match
	Urban Renewal Loan	\$			
	Equity (applicant)	\$			
	Bank	\$	%		
PROP	OSED SOURCES OF FUNI	OING (grants)			
	Urban Renewal Grant	<u>\$</u> 20,000.00			
	Applicant Match	§ 19,919.00			
	Other Source	\$	%		
	Other Source	\$	%		
	Other Source	\$	%	-	
	Total \$39,919.	00 (Must equa	total expected costs)		
Facade Grant Matching Funds: TER: Request \$20,000 or less (50% match) = (100% match) □					
NOTE: To determine what tier your grant match is in and what your match will need to be, divide your total project costs by three (3); that amount is your match in tier one, unless the balance remaining is higher than \$20,000. If that request amount is higher than \$20,000 your grant will be tier two. To determine that divide the total project cost by two (2), this amount is your grant request and your match.					
is your	ELET: Suppose your total prorequired match. The remaining or less. Your grant is in tier	ng balance is \$14,780.	This is your grant requ		390, this
\$15,216	Suppose your total prof.66, and the remainder is \$30 l project cost by two (2); \$22,	,433.34 which is great	er than \$20,000. Your	grant is tier 2.	

Bank	3	%			
PROPOSED SOURCES OF FUN	DING (grants)				
Urban Renewal Grant	<u>\$</u> 20,000.00				
Applicant Match	_{\$} 19,919.00				
Other Source	\$	%	□		
Other Source	\$	%			
Other Source	\$	%			
Total \$39,919	.00 (Must equ	ual total expected costs	3)		
Façade Grant Matching Funds: Request \$20,000 or NOTE: To determine what tier you total project costs by three (3); that higher than \$20,000. If that request determine that divide the total proje is your required match. The remain \$20,000 or less. Your grant is in tier \$15,216.66, and the remainder is \$3 the total project cost by two (2); \$22	r grant match is in and amount is your match is amount is higher than act cost by two (2), this roject cost is \$22,170. ing balance is \$14,780 r one. (\$7,390 is 50% roject cost is \$45,650. i0,433.34 which is great	in the one, unless the inter one, unless the inter one, unless the inter one, your grant was amount is your grant. Divide that by three (interpretation of \$14,780) Divide that by three (interpretation of \$14,780)	balance remaining is iill be tier two. To request and your mate (3) gives you \$7,390, to equest, since it is (3) gives you ur grant is tier 2. Divi	ı. is	
APPLICATION	October 15, 2015	SUPERSEDES ALL PR	EVIOUS VERSIONS	4	

Applicant hereby certifies that all information contained above and in exhibits attached hereto are true and complete to the best knowledge and belief of the applicant and are submitted for the purpose of allowing the full review by The Dalles Urban Renewal Agency and its agents for the purpose of obtaining the financial assistance requested in this application.

Applicant hereby consents to disclosure of information herein and the attachments as may be deemed

	necessary by MCEDD and its agents for such review and inv	restigation.
		he guidelines of The Dalles Urban Renewal
	Agency Property Rehabilitation Grant and Loan Programs ar	nd agree to abide by its conditions.
,		
\leq	That fulls Beild, owner	7-20-16
	Signature and Title if appropriate	Date
	,	
	Signature and Title if appropriate	Date
	Signature and Title if appropriate	Date
	Signature and Title if appropriate	Date
	Signature and Title if appropriate	Date
	The Following Items Are Required Before A Loan Is Approx	ved Or Grant Project Can Begin:
	A. Loans and Grants	
	Certificate of approval from agency (if required).	
	 Letter of approval from Historic Landmarks Commis A summary of the project outlining the work to be do 	
	4. Complete plans and specifications.	ne.
	5. Costs estimates or bids from a licensed contractor.	
	6. Evidence that building permits or any other required	permits are in place.
	7. Preliminary commitment of any other funds to be use	
	B. Loans Only	
	 Amount of loan requested and proposed terms being to 	
	Bank's loan application and any other information the statements, including balance sheets and income state	
	For Applicants Under The Civil Improvements Grant Program	
	The grants will be awarded semi-annually on a compo	
	criteria in your narrative and attach it to this application	
	July 31 and January 31 of each year.	



Date: July 21, 2016

QUOTATION

FROM THE DESK OF: GLENN WONG | glenn@pikeawning.com

7300 SW LANDMARK LANE PORTLAND, OREGON 97224 (503) 624-5600 (800) 866-9172 | Fax: (503) 968-5440 | www.pikeawning.com

SUBMITTED TO:

SITE:

Lines of Designs 110 E 2nd The Dalles, OR, 97068 Lines of Designs 110 E 2nd The Dalles, OR.

Attn: Luise Langheinrich

Phone: 541-296-4470

Email: luise@linesofdesigns.comm

INCLUDES:

1-Stationary c-channel awning complete and installed

Height: 8" Projection 4' Width: 25'

Frame: 8" steel c-channel with powder coat finish

Ceiling: Galvanized, corrugated steel roofing with powder coat finish, top and bottom

Upper supports: Threaded steel rods and clevises with a powder coat finish,

Color: Standard colors to be chosen

Graphics: None indicated

Obtain permit

Cost: \$13,700.00

Note: The Haffner Consulting Engineering study calls for epoxy anchors and an onsite weld, for the awning attachments. These items are included in the new price but also require a special inspection by an independent consulting provider. As the installer, we cannot order or pay for this service. This has to done by the building owner. Please make sure that Mr Hillis is aware of this, as it will be his responsibility to make these arrangements and co-ordinate with our installers.

EXCLUDES:

Remedial work to the building to support the awning

Total: \$13,700.00 Sales Terms: 1/3 down and balance due upon completion Accepted by: __ Price good 90 days

Craftsmanship & Creativity Since 1891



Lemke Building 110 E 2nd St The Dalles, OR 97058 Date: 3/21/2016

Proposal #1744

We Hereby submit specifications and estimate for:

Building Façade

Demolition

- > Interior; T-bar ceiling at front of building, 2x6 ceiling joist, plywood and 2x4 pany wall (transom window location).
- > Exterior, awning and all components.

Lead paint if found will be handled with lead safe practices. Asbestos has not be detected.

Steel Beams and Bracing

> All materials, fabrication (as per drawings), primer if necessary, installation, crane and men lift service.

Framino

> Frame as needed window opening for new transom windows.

Window

> Supply and install (6) window units; each unit consting of (2) 24"x18" and (1) 48" x 30" clear annealed, std. Low-e, insulated glass set in clear anotized storefront metal.

Trím

>Trim interior of windows with MDF flat sock size TBD,

Electric

- > Includes materials, labor and permits.
- > Remove existing light fixtures and wiring at front of store.
- > Remove (2) troff fixtures just inside the store.
- > Supply and install (5) LED surface type fixtures in awning.
- > At this time owner is not sure about lighting in store, fitures not included, installation provided.

Ceiling

- > Install new T-bar ceiling bar angling to top of new transom windows, approximate 8lf from front of store.
- > Install existing/ new matching as close as possible 2'x4' ceiling tiles.

Painting

- > Paint all exposed walls above existing ceiling line to new T-bar, blend to match existing.
- > Paint new interior trim, color TBD.

Misc

- > Clean up and haul away all construction debris.
- > Scaffolding needed.
- > Building Codes Permit costs.

Total Project Cost: \$26,219.00

Any alterations or deviations from work to be performed will involve extra cost of materials and labor above the sum mentioned in this contract which does not include the cost of any permits that may be involved, plumbing, or electrical unless specifically stated in the above proposal. All agreements must be in writing. Note: This proposal may be withdrawn by us if not accepted within 30 days.

Authorized by

	TET CHIO	
Cash or check payments require 50% due at time	of acceptance, 50% due at time of substan	tial completion. For convenience purposes
Credit Card payments are accepted and require 10	own at time of acceptance.	
Total Down \$	Check #	Verification /
TOTAL DOVIN 4	Ollock #	
	ACCEPTANCE	
You are herby outhorized to furnish all materials a	and laborate resolved to assemblate the world man	the and in the above assessed for which
Tou are nerby authorized to rumish all materials a	no tabor reditired to complete the work men	gioned in the above proposal, for which
	agrees to pay the proposed amount, accord	ing to the terms above.
	agrees to pay the proposed tanocini, desired	and to the source
Accepted		
		Data
		Date

(541) 296-4242 1215 E. 18^{th.} Street • The Dalles, OR 97058 CCB# 160249 • WA# ADAMSCL956/L

HCE JOB #2016-106 NEW CANOPY II & EAST 2ND STREET THE DALLES, OREGON LEMKE BUILDING HAFFNER CONSULTING ENGINEERING 4 CTH 4-22-16 P.O. Box 584 Mosier, OR 97040 Phone & Fax: (541) 478-3052 www.haffnerconsulting.com

Copyright 2016: Reproduction of all or a portion of this work without written permission of Haffner Consulting Engineering is prohibited

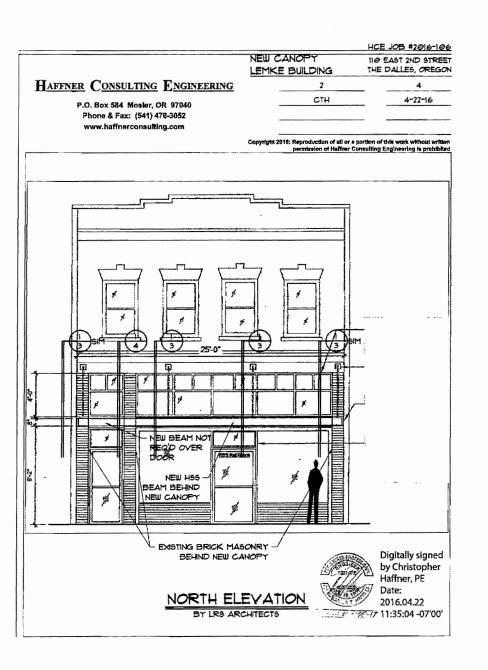
GENERAL NOTES:

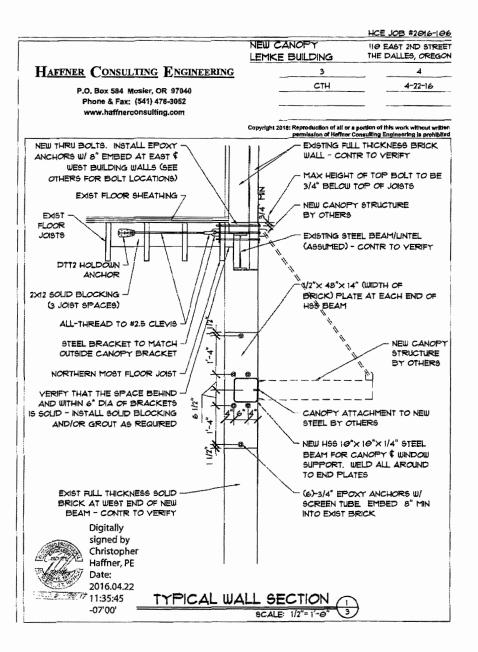
- I. CONTRACTOR SHALL VERIFY ALL NEW AND EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS. CONTRACTOR SHALL NOTIFY THE ENGINEER OF SIGNIFICANT DISCREPANCIES PRIOR TO INITIATING ANY RELATED WORK
- 2. STRUCTURAL STEEL SHALL BE ASTM A992 (BEAMS), ASTM A36 (MISC. STEEL), ASTM A500 GRADE B (HSS SHAPES), AND ASTM A53 (PIPE).
- 3. ALL BOLTS AND RODS SHALL BE FI554, GRADE 36.
- 4. DRILL HOLES INTO EXISTING BRICK WITHOUT IMPACT (ROTARY ONLY). ALL EPOXY SHALL BE SIMPSON AT (ACRYLIC TIE), SIMPSON SET OR SIMPSON ET OR EQUAL WHERE INSTALLING INTO FULL DEPTH BRICK EMBED 8" WITH A SCREEN TUBE. ALL MANUFACTURERS RECOMMENDATIONS SHALL BE STRICTLY FOLLOWED.
- 5. DRAWINGS TAKE PRECEDENCE OVER CALCULATIONS.
- 6. THESE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROPERLY ALIGN AND PROTECT THE STRUCTURE(S) DURING CONSTRUCTION.

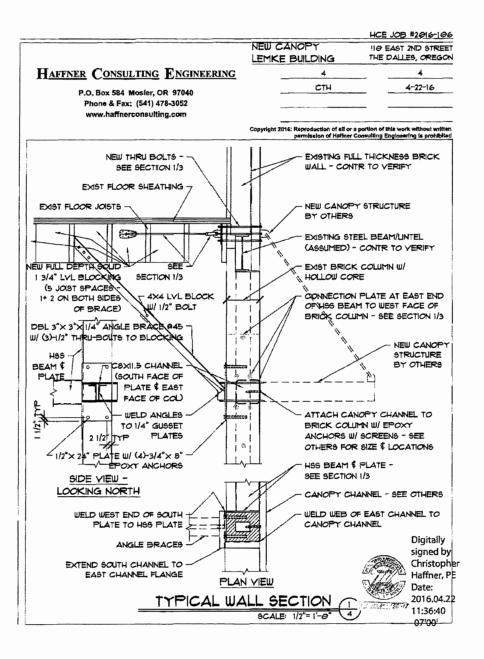


Digitally signed by Christopher Haffner, PE Date: 2016.04.22

-07'00'







Haffner Consulting Engineering

www.haffnerconsulting.com Christopher Haffner, P.E. 2016-106 HCE-Gravity Calcxxlsx

Structural Design - Cover Page

Lemke Building Canopy

2016-106

Client

Hewitt Hillis

Project Address:

Project:

110 E 2nd Street The Dalles OR

Latitude: Longitude:

1951 FE XE

Date:

4/16/2016

Digitally signed by Christopher Haffner, PE Date: 2016.04.22

11:43:44 -07'00'

Governing Jurisdiction:

Oregon Bullding Codes

Governing Building Code:

2014 Edition of the Oregon Structural Specially Code (OSSC)

Standards:

See calculations but some of the standards used include the following:

Edition Standard
2014 ACI 318 - American Concrete Institute Buildin

2014 ACI 318 - American Concrete Institute Building Code varies AF&PA - American Forest & Paper Association

2012 NDS - National Design Specification for Wood Construction

2012 WFCM - Wood Frame Construction Manual

2008 SDPWS - Special Design Provisions for Wind & Seismic

2010 AISC 360 - Steel Construction Manual

varies AISI S100 - American Iron & Steel Institute (Cold Formed Steel)

varies AITC - American Institute of Timber Constructions (Glu-Lams)

varies APA - Engineered Wood Association

2010 ASCE 7 - Minimum Design Loads for Buildings and Other Structures

varies AWPA - American Wood Protection Association (treated wood)

varies AWS - American Welding Society

2010 SJI - Steel Joist Institute

varies WRI - Wire Reinforcement Institute (slab-on-grade foundations)

Project Scope:

structural support of new canopy [Franciscom / January and State of the State of th

Structural Design Concept:

Gravity:

normal transfer of loads from roof through framing to foundation

Latera

normal transfer of joads from roof through framing to foundation

Design Assumptions:

Gravity:

Soll values for Site Class, bearing capacity, lateral soll load and lateral coefficient of friction per the Governing Building Code - also see Design Loading and individual calculations

Lateral

none was the second of the sec

P.O. Box 584 Mosier, OR 97040

Phone Fax: 541/478-3052

chris@haffnerconsulting.com

Job#:	2016-106	Date:
Project:	Lemke Canopy	4/16/2016

Haffner Consulting Engineering

estimate

HCE-Wind Loads - ASCE 7-10.xlsx

Wind Load Project Information per ASCE 7-10 Chapter 26

Site

General	
Lemke Canopy	Project Name
110 E 2nd	: Project Addres
Lemke Cenopy 110 E 2ñd The Dalles, OR	City, State

2 Building Risk Category 120 Ultimate Wind Speed (mph)	per ASCE 7 Table 1.5-1 per ASCE 7 Figure 26.5-1A
B Exposure	per ASCE 7 Section 26.7.3
ee 2nd Page Topographic Factor (Kz)	per ASCE 7 Section 26.8
Enclosed Enclosure Classification	per ASCE 7 Section 26.10

Building

<u>Plan (itt)</u>
26 Maximum Width (left/right on plan) - parallel to main ridge
100 Maximum Length (up/down on plan) - perpendicular to m

- nain ridge estimate
- 26 Minimum (least) horizontal dimension
- Ü Roof Slope (:12)

 \leftrightarrow

\$

↔ \$

26 Width used for wind base shear comparison (left/right on plan) 100 Length used for wind base shear comparison (up/down on plan)

- Elevations (ft)
 2 Stories above base
- 28 Maximum roof height above base
- :28 Eave height above base
- 15 Upper floor elevation above base

- O Upper noor elevation above base
 O Main floor elevation above base
 O Lower floor elevation above base
 O Foundation elevation above base
 O Base elevation for wind base shea 0 Base elevation for wind base shear (top of foundation)
 - 0 Roof height used for wind base shear comparison (max roof height eave height)
 - 28 Wail height used for wind base shear comparison (eave height base height)

Job#:	2016-106	Date:
Project:	Lemke Canopy	4/16/2016

Haffner Consulting Engineering HCE-Wind Loads - ASCE 7-10 xlsx

ASCE 7-10

per Chapter 28 - MWFRS (Envelope Procedure) PART 2: Enclosed Simple Diaphragm Low-Rise Buildings

Building Info

Maximum Roof Height	28	Mean Roof Height	28		
Eave Height Elevation	28	Roof Slope	Ð	:12	0.0 degrees
Upper Floor Elevation	15	Least Horizontal Dimension	26		-
Main Floor Elevation	0	Risk Category - Table 1.5-1	2		
Lower Floor Elevation	0				
Foundation Elevation	0				

Site Info

Basic Wind Speed 120 Exposure B

Conditions & Limitations (ASCE 7 Section 28.6.2)

Condidates of Financial	LCOOP 1	OCCHOST ZU.U.Z	
1. Simple Diaphragm per 26.2	Yes		OK
2. Low Rise Building per 26.2	28	60' Max	OK
2. Low Rise Building per 26.2		mean ht. <horiz. dim.<="" td=""><td>NG</td></horiz.>	NG
Enclosed per 26.2	Yes		OK
3. Enclosed per 26.10	Yes		OK
Regular Shaped per 26.2	Yes		OK
Flexible Building per 26.2 & 26.9.2	No		OΚ
Special Wind Loadings (28.6.2)	No		OK
7. Special Building Conditions (28.6.2)	No		OK
8. Exempt from torsional loads (28.6.2)	Yes		OK

DO NOT use Simplified Wind Load Method

Wind Pressures for Main Windforce-Resisting System (MWFRS) (ASCE 7 - 28.6.3)

ASCE 7 - (28.6-1.1) p_s=λ.K_{z1}p_{s30}

		find λ t	ISING ASCE	7 - Figure	28.6-1		
		Mean Roo	f Height =	28			
	1	15	20	25	30	35	40
У.	λ (Exp B)	1.00	1.00	1.00	1.00	1.05	1.09
	λ (Exp C)	1.21	1.29	1.35	1.40	1.45	1.49
	λ (Exp D)	1.47	1.55	1.61	1.66	1.70	1.74
	Use A =	1.000					

T	opographic	al Factor - !	find K _{zt} using	ASCE 7 - Section 28.8	
find	K1, K2, & F	3 using AS	CE 7 - Secti	on 26.8 and Figure 26.8-1	
Does Topo	graphical I	actor apply	to this site	No	
	K ₁	K ₂	K ₃	See attached calculations i	f
	-	-	-	Topographical Factor applie	18
K _{zt} =	1.00				

			fir	rd p ₅₅₀ usin	ASCE 7 -	Figure 28.6	-1 Haffne	r Consult	ing Engin	eering
Roof An	gle Used	0.0		Roof Angle	0.0		degrees	WHOUSPE	Hoads - ASCE	120
					Zoi	ne				
Load	A	В	С	D	Е	F	G	н	Eon	G _{OH}
Case 1	22.8	-11.9	15.1	:,7.0	-27.4	-15.6	-19.1 :	-12.1	-38.4	∵:30.1
Case 2			T	23.50	34,000	a they fil	msi). 11.	4.4	WW.251	7/ -:

Main 1	Wind Force	Resisting §				e Diaphrag Eq. 28.6-1		Buildings	(Net Design	Wind
					Zo	ne				
Load	Α	В	С	D	E	F	G	Н	E _{OH}	G _{OH}
Case 1	22.8	-11.9	15.1	-7.0	-27.4	-15.6	-19.1	-12.1	-38.4	-30.1
Case 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

				ASD Load	ing (ultima	te ps * 0.6)				
Losd	Α	8	С	D	E	F	G	Н	EOH	GOH
Case 1	13.7	-7.1	9.1	-4.2	-16.4	-9.4	-11.5	-7.3	-23.0	-18.1
Case 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

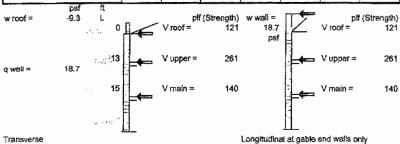
	find 2a usir	ng ASCE 7	- Figure 28	.6-1, Note 9)		
		а					
lesser of 10% of least horiz dim	2.6	min					
or 0.4h	11.2	2.6					
not less than 4% least horiz dim	1.0	max	final a		therefor	e length a	f Zone A
or 3'	3.0	3.0	3.0		2a =	6.0	feet

Uniform Wind Loads - Strength Values (Vuit)

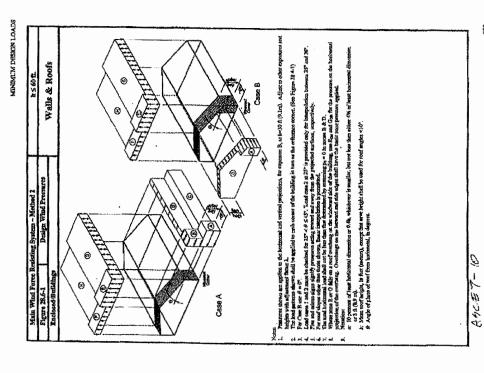
		· · · ·					
	find uniform wind load on building by aver-	aging A & C	, B & D usi	ng ASCE 7	- Figure 28	3.6-1 (based	on least
		A	В	С	D	Wall Avg.	Roof Avg.
i	Transverse (perp. to gable roof ridge)	22.8	-11.9	15.1	-7.0	18.7	-9.3
	Longitudinal (parallel to main ridge)	22.8	-11.9	15.1	-7.0	18.7	-9.3
			1				

Uniform Wind Loads - ASD Values

Adjust for ASD Loa	ad Combina	etions (ASC	E 7. Section	n 2.4.1)		
	Α	В	Ç	D	Wall Avg.	Roof Avg.
Transverse (perp. to gable roof ridge)	13.7	-7.1	9.1	-4.2	11.2	-5.6
Longitudinal (parallel to main ridge)	13.7	-7.1	9.1	-4.2	11.2	-5.6



Haffner Consulting Engineering



303

Haffner Consulting Engineering HCE-Wind Loads - ASCE 7-10xlsx

CHAPTER 28 WIND LOADS ON BUILDINGS-MWFRS (ENVELOPE PROCEDURE)

	Main Wi	nd Force	Resi			_					ħ≤	56 ft.	
_	re 28.6-1		I	Q	esign H	and Pre	ssores			We	lls &	Roofe	
,	Enclosed	Balldings								***		KOOD	
Simplified Design Wind Pressure, p ₅₃₀ (psf) (Exposure B at h = 30 ft, with l = 1.0)													
	Basio Wind	Roof	18	<u> </u>	Horizonta	Pressur		T 2	****	Prostage		Cw	france.
	Speni (mph)	Angle (degrees)	1	A	В	C	D	E) P	G	Н	EDN	GOH
		055	Ī	18.2	-10.0	12.7	-5.0	-23.1	-13.1	-16.0	-10.1	-82.3	-253
		18"	1	21.6	-6.0 -8.0	14.A 16.0	-4.6	-23.1 -23.1	-14.t	-16.0	-10.A	-323	-253
	110	25*	1	26.8	-7.0	17.7	-3.0	-23.1	-16.0	16,0	-12.2	-30:3	-25.3
	3 10	25"	1	24.1	3.5	17.4	4.0	-10.7	-14.6	-73	-11.T	-19.9	-17.0
		30 m 45	1 1	21.5	14.6	17.2	11.8	1.7	-7.9	-L1 0.6	-11.3	-7.8	-8.7
			2	21.6	14.8	17.8	11.8	8.5	-6.5	7.2	4.8	-7.6	-8.7
-		D 10 8	1	21.0	-70.P -8,6	13.9	-8.5 -5.7	-25.2	-14.3	-17.5 -17.5	-11.8	-363	-27.5 -27.5
1		15"	7	25.7	-8.6	17.9	-5.0	-25.2	-16.5	-17.5	-12.6	353	-27.5
- 1	115	20	1	29,0	-7.7	19.4	4.2	-25.2	-17.5	-17.5	-15.3	-35.3	-27.5
	110	25'	1	26.3	12	19.5	43	44.7	-15.9	-8.5	-12.8 -5.5	-218	-18.5
- 1		3D 20 45	1	23.8	16.1	18.6	12.9	1:8	-14.3	0.6	-12.3	82	-9.5
			٠	99,8		18.8	-40-8	- 0.	7.	7.0	-40		- 0.0
- 1		050	1	22.3	-11.0	15.1	-7.0	-27.4	-15.6	-19.1	-12.1	-38.4	-30.1
_		15'	1	25,5	-9.5	19.1	-6.4	-27.4	-17.8	-19,1	-13.7	-344	-80.1
	120	200	1	31.4	-8.3	27,1	-2.6	-27.4	-19.1	-10.1	-14,5	384	-50.1
1		25	1	28.8	4.6	20.7	4.7	-12.7	-17.3	49.2	4,51-	-237	-202
7		30 to 46	2	25.7	17,6	20.4	14.0	2.0	-15.5	43	-18,4	-9.0	-tD3
ı		W 2 4.	ź	25.7	17,6	20.4	14.0	9.9	-7.7	8.6	-5.5	-8.0	-10.3
Ī		0 to 5"	1	26.8	-13.3	17.6	48.7	-52.2	-16.5	-22.4	-14.2	-46.1	46.3
1		16"	7	30.2	-123	20.1	-7.8	32.2	-19.7 -31.0	-22.A -22.4	-15.1	46.1	353
ŀ		20"	H	\$7.1	-9,8	34.7	-8.4	-52.2	-22.4	-22.A	-17,0	45.3	-35.5
- 1	130	25	1	33.6	5.4	24.3	5.5	-14.9	-20.4	-10.5	-15.4	¥7.5	-25.7
i			2		20.6	-		4.7	41.1	-15	-7.5	_	
1		30 2 45	1 Z	30.1 30.1	20.6	24.0 24.0	16.5	11,5	-18.2 -8.3	0.8 10.0	-15.7 -2.4	-10.6 -10.6	-121 -121
Ì		065	ī	31,1	-16.1	20.6	-9.6	-37.3	212	-26.0	-16.4	\$2.3	40,9
- 1		10"	1	35.1	-14.5	23.3	-8.8	-37.5	-22.8	-26.0	-17.5	-623	-40.0
- 1		15°	1	36.0 48.0	-12.9 -11.4	28.0	-7.4	-37.3 -37.3	-36.0	-26.0 -26.0	-18.8 -19.7	-62.3 -62.3	-40.9
- 1	140	23.	1	38.0	6.9	28.2	5.4	-17.3	-25.6	-12.5	-19.C	-32.3	-27.5
- 1			2	38.0	23.8			-6.6	-12.8	-1.E	-82	-123	
- 1		50 to 46	- 94	35.0 35.0	23.8	27.8 27.8	15.1 19.1	27	-21,2 -40,5	11.7	-18.2 -7.5	-123	-14.0 -14.0
ł		0 to 6"	7	36.7	-18.5	23.7	-11.0	-42,9	-24.4	-29.8	-18.9	-60.0	-47£
I	1	10"	1	40.2	-157	26.B	-9.7	-42.9	-28.2	-29.8	-20.1	-60.6	47.5
١		15	1	44.3	-14.0 -13.0	23.8	-0.5 -7.2	42.6	-28.0 -28.8	-29.8 -29.8	-21.4 -22.6	-50.0	-47.0 -47.0
1	150	25*	1	44.8	72	32.4	74	-19.9	-27.1	-:4.4	-21.5	-37.0	-21.6
- 1			2		_			-7.5	-14.7	-21	-QA		_
- }		30 5 45	1 2	40.1	27.A 27.A	31.9	22.0	3.1 15.4	42.0	1.0	-20.5	-14.1	-15.7
į			2	40,1	17A	31,9	22.0	15.4	-12.0 sf = 0.0	13.4	4.0	-14.1	-18.7

304

Haffner Consulting Engineering HCE-Wind Loads - ASCE 7-10.xlsx

MINIMUM DESIGN LOADS

ure 28.6-1	re 28.6-1 (cont'd) Design Wind Pressures						Walls & Roofs					
Enclosed	Buildings	_							Wa	lls &	Roofs	i
Satie Word	Simple	fied	l Desig	gn Win	d Pres	sure,	P636 (P	sf) (Exp	ховите В	eth = 31	0£)	
	Roof	3					Zo	MOE				
Speed .	Angle	8		Horizontal	Pressure			Yortical I	Pressures		OVE	agnes
(mph)	(degrees)	8	A	8	C	o l	E	E	G	H	Eos	Gos
	065	1	46.6	-21.1	28.9	-12.6	-48,8	-27.7	-34.0	-21.5	-25.3	-53.5
1 1	10'	1	45.8	-19.0	30.4	-11.1	-40.8	-29.4	34.0	42.5	-68.3	-58.5
1 1	15*	7	51.0	-159	34,C	-8.6	-4K,B	-31.9	-34.0	-24.3	-63L8	-62.5
	20"	1	56.2	-14.6	57.5	-5.2	-45.6	34.0	-54.0	-25.8	-52.3	-63.5
160	25"	1	60.9	8.2	36.9	8.4	-22.8	-32.4	-18.4	-24.8	-01	-85.7
i 1	<u>. </u>	2				-	3.5-	-16.8	-2.8	-10.7	1	
1 1	30 to 45	1	45.7	31.2	30.3	25.0	3.5	-27.7	7.2	-Z3.8	-160	-182
		2	45,7	31.2	36.8	28.0	178	-137	152	-28	-180	-16.3
180	0 to 5	•	51.A	36.7	34.1	15.8	-61,7	-36.1	43.0	-27.2	-86.4	-67.7
	10	1	260	-510	38,5	-14.0	-E1.7	-37.7	-43.0	-29.0	-86.4	-6T.
	15	7	64.5	-21.4	43.0	-12.2	-61.7	40,3	43.0	-30,8	-854	-87.1
	207	1	21.1	-18.5	47,4	-10.4	-E1,7	43.0	42.0	-52.5	-88.4	457.7
	25"	3	84.5	10.4	45,7	10.é	-28,5	-39.0	-20.7	-31.4	-55.3	-45.4
		2			-1		-10.9	-21,2	-\$10	-13.6		
	30 to 46	,	67.0	33.5	45.9	95.6	1.4	1.36	1.5	-30.1	-20.3	-23.2
		2 }	57.8	30.5	45.9	31.E	22.2	-17.3	19.3	-12.3	-20.3	-2:2
	306,	1	63.4	-529	42.t	-19.6	-76.2	43.3	-68.1	-33.5	-106.7	-87.5
	10*	1	71.5	-29.7	47.5	-17.3	-76.2	-48.5	-83-1	-35.8	-105.7	-63.5
} {	15	1.7	79.7	-754	53.1	13.0	-78.2	-49.8	-53.1	-88.0	-108.7	-63.5
[20"	11	87.8	-23.2	58.5	42.8	-78.2	-53.1	-53.1	-40.2	-108.7	-83.5
200	25*	1	78.6	12.8	57.5	13.1	-35.4	-48.2	25.6	-38.7	-65.0	-56.1
1 1	1	2					-13,4	-26.2	-3.7	-16.8		
1	30 to 48	11	71.3	48.8 48.8	58.7 55.7	39.0 59.0	5,6 27.4	-43.3 -21.3	1,8 23,8	-3T,2 -15.2	-250 -250	-26.7 -26.7

Adjustment Factor

for Building Height and Exposure, λ

101 044			2001 CJ A						
Mean roof		Ехрозия							
height (ff)	8	C	D						
18	1.00	1.21	5,47						
20	1.00	1.29	1,55						
25	1.00	1.35	1.61						
30	1.00	1.40	1,66						
35	1.06	1.45	1,70						
40	1.08	1.49	1.74						
45	1.12	1.53	1.78						
80	1.18	1.55	1,81						
55	1,19	1.59	1,84						
60	1.22	1,62	1,57						

Unit Conversions - 1.0 ft = 0.3048 m; 1.0 psf = 0.0479 kN/m²

Job#:	2016-106	Date:
Project:	Lemke Building Canopy	4/21/2016

Haffner Consulting Engineering 2016-106 HCE-Gravity Cales.xlsx

Gen	eral Lo	ading	
Roof	(D)	15	psf
1	(S)	20	psf
Ceiling	(D)	5	psf
_	(L)	10	psf
Floor Decks	(D)	10	psf
	(L)	40	psf
	(D)	10	psf
l .	(L)	40	psf
Balcony	(D)	15	psf
	(L)	60	psf

Canopy Loads: per engineering by Nordling Structural Engineers, LLC date Feb 2016 for Pike Awning Company Sheet #3 - see attached

Top Connection at rods to building

max vert load = 1130 #/rod

find the percentage of increase in load to existing beam

w exist (assumed) = (40*3*16) = w new = 1130/8.333 = 136 plf

full width masonry wall

% increase = 136/1920 =

7.1% <10%

therefore by insp say OK

max horiz load = 960 #/rod

drive load to upper floor diaphragm by tying to floor framing w/ DTT2 holdown cap = 1825 #

Bottom Connection

use load combo of D+S w/o W (conservative)

Fy = use 530 # at 4'-2"o.c. wy = 530/4.17 = 127 pif Fx = use 960 # at 4'-2"o.c. wx = 960/4.17 = 230 pif but add wind from winndows above/below

wx = 16 psf (min ASD wind)*(4/2+1+9.17/2) = 121 plf

wx = 351 pif total

see Enercalc by insp beam will be OK under combined loading Use HSS10x 10x 1/4

R at ends = 4.8 k Rx

2 k Ry

combined shear = 5.2 k

AT anchor cap = 1000 # in URM wails/columns at east/west end of new beam need 6 3/4" dia anchors see attached design info

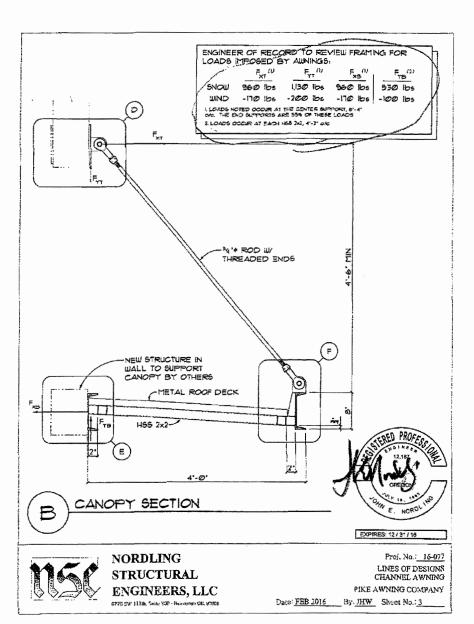
brace at column to floor

Fx = 4.8 k

F = P brace = 6.8 k 45 degrees)

Lu = 8 ft max

see Enercalc



AT Design Information — Masonry



	_	0	onligueath	a A (Slope	on Strong-	Tie ATS.or.	ATEP Semen Tobe Hop	fred)
((181)	1	(203)	24 (510)	18 (457)	18 (457)		(1,000 (4,4)
	#5 (15.9)	1	203)	(610)	18 (457)	18 (457)		750 (3.3)
	#6 (19.1)	1	\$20.3) 120.3)	24 (610)	18	18 (457)		1,000 (4.4)
			2000 Guzzati	on B (Simps	on Strong	Tie ATS or	ATSP Screen Table Requ	ired)
	% (19.1)	1	13 (330)	16 (468)	18 (457)	24 (810)	1,200 (5.3)	1,000 (4.4)
		Configu	nation C (S	langeon Sta	ang-Tie ATS	Screen To	be and AST Steel Sleav	s Required)
	74 (15.9)	1		24 (510)	18 (457)	18 (457)	1,200 (5.3)	750 (3.3)
	Tateada	of mate mi	se comply	with ASTM	FISEA Gr	aria 38 mini	men	

- 2. All holes are drived with a 1" diameter carbide-tipped drill bit with the drill set in the rotation-only mode. *
- 3. The unreinforced takin walls must have a minimum thickness of 13 inches (three wythes of brick).
- 4. The allowable load is applicable only where in-place shear tests indicate minimum net mortal strength of 50 ps. The alloweble load for Configuration B and C anchors subjected to a combined tension and shear load is determined by assuming a straight-line relationship between allowable tension and shear.
- 8. The anchors installed in unreinforced brick walls are limited to recisting seismic or wind lorous only.
- 5. The windows installed in the minimal process and mando to troops generated which is discussed in the minimal process only. Configuration is been well with a 1% of demonstrate by 9 and hong scenar lake jour # A FISTOS or #TSTSSP, The configuration is designed to resist a hear logists and. Configuration B has a 4% thesaded not been and installed of a USE diagnose inperiod and installed of a USE diagnose inperiod and installed of a USE diagnose inperiod and installed of a 18 and installed on the 18 and 18
- s. Designation Dis designed to resist tomoir and sheer forces, it consists of a 1% diameter, ASTA F1554 Gradia 38 threated not and an 8" force dead scene (part & ASTROD) and a 16st "diameter by 6-hort long somet tuber (part if ATS758). The sheet scene is a potent plug in one and, A 8" by 5" by 16" block ASTM A 35 steep hate to be located on this bradit face of the west.
- 10. Special inspection requirements are determined by local jurisdiction and must be confirmed by the local
- 11 Refer to in-service temperature sensitivity chart for allowable load adjustment for temperature.

AT Allowable Tension and Shear Loads for Threaded Red Anchors in Lightweight, Medium-Weight and Normal-Weight Hollow CMU



Dist. Bit. D	nited Critical Sollind optio Fidge Gracing on Dist Dat on of Other	S-Bigs Furley Cast Allowaise & Fassel en (MA) Si pogiti. Tabelen She Ullimate Astevable Ullimate Astevable Ullimate She She She She She She She She She Sh	
		to have	San Trans.

Anchor Installed in Face Shell with Simpson Strong-Tie ATSP (Plantic) Screon Tube

19.5)	*/4	3% (88.9)	(305)	(203)	1,545 (6.9)	318	1,385 (6.2)	275 (1.2)
16 (12.7)	34	31/2 (88.9)	(305)	(203)	1,510 (6.7)	(1.3)	(6.2) 1,305 (5.5)	260 (1,2)
56	7/4	_3_	12	8	1.590	320	1,345	270

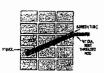
- 1. Threaded rods must comply with ASTM F1554 Grade 36 minimum.
- 2. The tabulated allowable loads are cased on a salety factor of 5.0 for installations under the BC and IRC.
- 3 Edge distances may be reduced to 4" with a corresponding 37% reduction in tension capacity. Sheer capacity is unaffected.
- Values to: 8-inch wide, lightweight, medium-weight and normal-weight concrete mesonry units with roin, compressive strength of 1,300 ps. and 1 % thick face shall. 5. Embedment doubly is misecured from the outside face of the concrete masonry unit.
- 6. Refer to in-service temperature sonsitivity chart for allowable load adjustment for temperature.
- 7. Set drill to rotation-only mode when drilling into hollow Ct/ILI.
- * See page 12 for an explanation of the load table icons.



Anchors

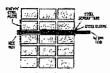
Adhesive





(Shear)

Configuration 8 (Tension & Shear)



Configuration C (Tension & Shear)

- Installation Instructions for Configuration C
- Drift hole perpendicular to the well to a depth of 8" with a 1" diameter carbide-doped drift oil (notation only mode).
- 2. Clean hale with od-free compressed eir and a rivion brush.
- 3. FE 5" stee! screen tube with mixed
- achesive and insert into hole.
- Insect steel sleave slowly into screen tube (adhesive will displace).
- 5. Allow adhesive to dure (see cure schedule).
- Drill through placks plug in (inside) and of steel alegen with 15" bit.
- 7. Drill completely through the well with %" carbide tipped concrete dni bit Mro eborr notalmi
- B insert %" rod through hote and ettach Jun bns ste'd latem

Title : Dagnr: Description : Job # Date: 5:24PM, 16 APR 16

Scope:

550007 KW-08057E1, Var 5,8,0, 1 33-2008 ENERCALC Engr CONTROL ENGRAPE ENGRAPS ICTIPTION	Bottom Conne	ection - Fx -		A STATE OF THE PARTY OF THE PAR		- Annual Control of Co	NAME OF TAXABLE PARTY.
eral informatio		MP000000000000000000000000000000000000			9th ASD, 1997 UE		, 2003 NFPA 5
Steel Section			Planed-Pinned	AND THE PROPERTY OF THE PARTY O	Fy Load Duration Fac	3	3.00ksi 1.00
Center Span Left Cant, Right Cant Lu : Unbraced Le	ngth	25.00 ft 0.00 ft 0.00 ft 25.00 ft	Bm Wt. Added to Lo		Elastic Modulus		00.0 ksi
ributed Loads					Note! Shor		s Are WIND to
	# 1 0.351	# 2	#3 #		5 #6	#	
Summary							Beam OK
Using: HS10X10X1/ End Fixity = Planed Mament fb : Bending	-Pinned, Lu = 2	= 25.00ft, Fy 5.00ft, LDF = 1 <u>Actual</u> 29.800 k-ft 12.636 ksl 0.685 : 1	.000 <u>Allowak</u> 50.9	sle 40 k-ft 00 ksi	Max. Deflect Length/DL D	tion left	-0.820 in 4,586.1 : 1 365.9 : 1
Shear fv : Shear S	fv / Fv	4.768 k 1,023 ksi 0,071 : 1	67.11 14.41	04 k 00 ksi			
e & Stress Sun		business constructions	Sanasara Maria		d + Live Load place		
Max. M + Max. M - Max M @ Left Max. M @ Right	<u>Maximum</u> 29.80 k-fi	DL Only 2.38	LL @ Cenjer	LL+ST @ Center 29.80	© Cants	LL+ST @ Cants	k-ft k-ft k-ft k-ft
Shear @ Left Shear @ Right	4.77 k 4.77 k	0.38 0.38		4.77 4.77			k k
Center Defi. Left Cant Defi Right Cant Defi Query Defi @	-0.820 in 0.000 in 0.000 in 0.000 ft	-0.065 0.000 0.000 0.000	0.000	-0.820 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000	in in
Reaction @ Left Reaction @ Rt	4.77 4.77	0.38 0.38		4.77 4.77			k k

Title : Dsgnr: Description :

Job # Date: 5:24PM, 16 APR 1

Scope:

	Page 2	กร
Description Bottom Connection - Fx -		NO.

•

Section Properties	HS10X10X1/4		
A LANGUAGE OF THE PARTY OF THE	CONTRACTOR OF THE PROPERTY OF THE PARTY OF T		
Depth	10.000 in	Weight	30.43 #/ft
Web Thick	0.233 in	lxx	141 000 in4
Width	10.000 in	lyy	141.000 in4
Flange Thick	0.233 in	Sxx	28.300 in3
Area	8.96 in2	Syy	28.300 in3
Rt	0.000 In	R-xx	3.970 in
Values for LRFD Design		R-yy	3.970 in
J	220.000 in4	Zx	32.700 in3
Cw	44,40 in6	Zy	32.700 in3

Title : Dsgnr: Description :

Job # Date: 5:24PM, 16 APR 16

Scope :

A SSOOT TO THE SECTION OF SECTION	ottom Conne	ction - Fy -	A STATE OF THE STA		and a second		CONTRACTOR OF THE PARTY OF THE	
Steel Section : Center Span								
Steel Section : Center Span						SC 9th ASD, 1997		
		1/4			THE PERSON NAMED IN STREET	Fy	3	6,00 ksi
		25.00 ft	Pinned-Pin Bm Wt. Ad		arte	Load Duration F Elastic Modulus		1.00 00.0 ksi
Cell Call.		0.00 ft	LL & ST A			2,2000 111000.00	20,0	
Right Cant		0.00 ft 25.00 ft						
Lu : Unbraced Leng	jun 2	25.00 ft				Notal Sh	ort Term Loads	Am Million L
tributed Loads						A PROPERTY OF THE PARTY OF THE	the transfer of the last	Market Street, Street, St.
DL #	1 #	‡ 2	#3	# 4		‡5 #6	#	7 k/ft
LL								k/ft
ST Start Location	0.127							k/ft ft
End Location								ñ
CONTRACTOR PROPERTY.								
Summary	je Bas					Short Terr	m Load Case (Beam O
Using: HS10X10X1/4 End Fixity = Pinned-F	section, Span = Pinned, Lu = 25	.00ft, LDF = 1	= 36.0ksi 1 000			Giore ren	ii copo ouse i	JOYDING BUILD
Moment		12.300 k-ft		Allowable 50.94		Max. Defi		-0.338 in
fb : Bending t		5.215 ksi		21.60	O ksi	Length/DL		4.586.1 : 1
	fb / Fb	0.241 : 1				Length/(D		886.6 : 1
Shear fv : Shear Str	***	1.968 k 0.422 ksi		67.10- 14.40				
W. Bricar Gr	fv / Fv	0.029 : 1		1-1.70	, Kur			
ce & Stress Sumr	nary					,		
THE STATE OF THE S	and the desired of the second			- These c		eac + Live Load pla		->>
	Maximum	DL Only		LL Center	LL+ST @ Center	LL @ Cants	LL+ST @ Cants	
Max. M+	12.30 k-R	2.36		VC1-101	12.30	to Callis	ar Cants	k-ft
Max. M -								k-ft
Max. M @ Left Max. M @ Right								k-ft k-ft
Shear @ Left	1.97 k	0.38	3		1.97			k
Shear @ Right	1.97 k	0.38	3		1.97			k
Center Defl.	-0.338 in	-0.065		0.000	-0.338	0.000	0.000	
Left Cant Defl Right Cant Defl	0.000 in 0.000 in	0.000		0.000	0.000	0.000 0.000	0.000	
. Query Deft @	0.000 ft	0.000		0.900	0.000	0.000	0.000	
Reaction @ Left	1.97	0.36			1.97			k
Reaction @ Rt	1.97	0.38			1.97			k
Fa calc'd per Eq. E2-7 Appdx B, Tube, In-Pla								

Title : Degnr: Description : Job # Date: 5:24PM, 16 APR 16

Scope:

г	Rev: 550007		D 0
1	User, KYY-0505761 Ver 5.8 0, 1-Nov-2005	Steel Beam Design	Page 2
;	(c)1963-2006 ENERCALC Engineering Software	Oteel Dealli Design	2016-106 calcs sow Celculations
_	(C)1303-2000 EIVERGALO EI GROSS FOI GORNAND		
-	CONTRACTOR OF THE PROPERTY OF		A SANDAR

Description Bottom Connection - Fy -

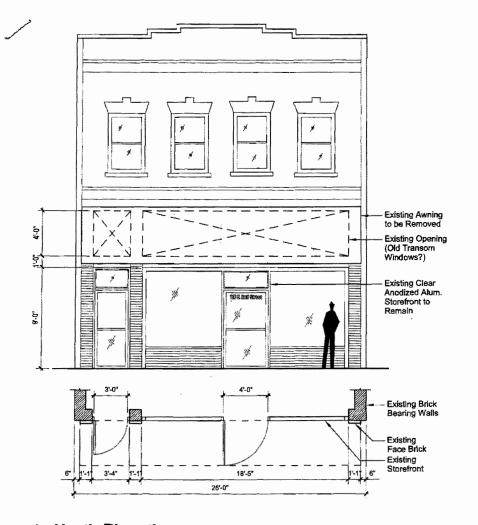
Section Properties	HS10X10X1/4				
the second secon	The state of the state of the				T STATE
Depth	10,000 in	Weight	30.43	3 #/ft	
Web Thick	0.233 in	lxx	141.000) in4	
Width	10,000 in	lyy	141.000) in4	
Flange Thick	0,233 in	Sxx	28,300) in3	
Area	8.96 in2	Syy	28.300) in3	
Rt	0,000 in	R-xx	3.970) in	
Values for LRFD Design		R-yy	3.970) in	
J	220,000 in4	Zx	32.700	in3	
Cw	44.40 in6	Zy	32.700) in3	

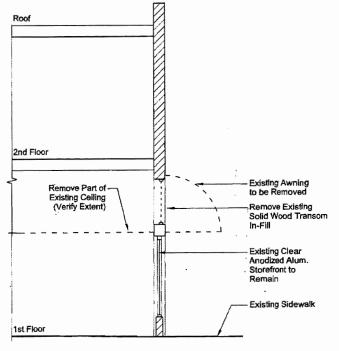
Title : Dagnr: Description : Job # Date: 9:02PM, 21 APR 16

Scope:

ev 580010					
NA-0505761, Ver 6.8.0, 1- 11083-2006 ENERCAL C Engin	Nov-2006 sering Software	Steel C	olumn	20	Page 16-105 calct.ecv Cálculate
ALL AND ADDRESS OF THE PARTY OF	olumn brace - C5	x9 or LL2x2x3/16	and the second s		the first managed of the second of
eneral Information	n		Code Ref: AISC 9th	ASD, 1997 UBC, 2003	IBC, 2003 NFPA 500
Steel Section	LL2X2X3/16X3/4	Fy	36.00 ksi	X-X Sidesway	Restrained
		Duration Factor	1.330	Y-Y Sidesway:	Restrained
Column Height	8,000 ft	Elastic Modulus	29,000.00 ksi		
End Fixity Live & Short Term L	Pin-Pin	X-X Unbraced Y-Y Unbraced	8.000 ft 8.000 ft	Kxx Kyv	1.000 1,000
pads	2000 COMBINED				7,000
Axial Load				Management of the last of the	
Dead Load		k E	cc. for X-X Axis Moments	0.000 in	
Live Load			cc for Y-Y Axis Moments	0.000 in	
Short Term Load		30 k			
Summary				Colu	mn Design OK
Section: LL2X2X	2015 2/16X3/4. Height = 8	3.00ft. Axiat Loads: DL =	0 00. LL = 0.00, ST =		- 1
	s: X-X = 8.00ft, Y-				
Combined Stress F	Ratios	Dead	Live DL+LI	DL + ST + (LL	if Chosen)
AISC Formula	H1 - 1				
AISC Formula	H1 - 2			0.165	55
AISC Formula	H1 - 3				
resses	m countries and the second	and the second of the second	manifest transcribed and a second second		
Allowable & Actual	Stresses	Dead	Live DL	+ LL DL + St	
		-			
Fa : Allowable		0.00 ksi	0.00 ksi	0.00 ksi	0.00 ksi
Fa : Allowable fa : Actual		-			
fa : Actual Fb:xx ; Allow [F1-	-8]	0.00 ksi 0.00 ksi 23.76 ksi	0.00 ksi 0.00 ksi 0.00 ksi	0.00 ksi 0.00 ksi 23.76 ksi	0.00 ksi 4.76 ksi 23.76 ksi
fa : Actual	-8]	0.00 ksi 0.00 ksi	0.00 ksi 0.00 ksi	0.00 ksi 0.00 ksi	0.00 ksi 4.76 ksi
fa : Actual Fb:xx ; Allow [F1-	-6] -7] & [F1-8]	0.00 ksi 0.00 ksi 23.76 ksi	0.00 ksi 0.00 ksi 0.00 ksi	0.00 ksi 0.00 ksi 23.76 ksi	0.00 ksi 4.76 ksi 23.76 ksi
fa: Actual Fb:xx: Allow (F1- Fb:xx: Allow (F1- fb: xx Ad	-8] -7] & [F1-8] tual	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksi	0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi	0.00 ksi 0.00 ksi 23,76 ksi 23,76 ksi 0.00 ksi	0.00 ksi 4.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi
fa: Actual Fb.xx: Alkow (F1- Fb.xx: Alkow (F1- fb: xx Act Fb:yy: Alkow (F1-	-6] -7] & [F1-8] tual -6]	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi	0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi	0.00 ksi 4.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi
fa : Actual Fb:xx : Allow [F1: Fb:xx : Allow [F1: fb : xx Acl Fb:yy : Allow [F1: Fb:yy : Allow [F1:	-6] -7] & [F1-8] tual -6] -7] & [F1-8]	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksl 23.76 ksi 23.76 ksi	0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 23.76 ksi	0.00 ksi 4.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 23.76 ksi
fa: Actual Fb:xx: Allow [F1: Fb:xx: Allow [F1: fb:xx: Allow [F1: fb:yy: Allow [F1: fb:yy: Allow [F1: fb:yy: Allow [F1:	-6] -7] & [F1-8] tual -6] -7] & [F1-8]	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi	0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi	0.00 ksi 4.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi
fa : Actual Fb.xx : Allow [F1- Fb.xx : Allow [F1- fb : xx Act Fb : yy : Allow [F1- Fb : yy : Allow [F1- fb : yy Act fb : yy Act fb : yy Act allysis Values	-6] -7] & [F1-8] ttual -6] -7] & [F1-8] tual	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksi	0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 kei 23.76 ksi 23.76 ksi 0.00 ksi	0.00 ksi 4.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksi
fa : Actual Fb.xx : Allow [F1- Fb.xx : Allow [F1- fb : xx Act Fb : yy : Allow [F1- Fb:yy : Allow [F1- fb : yy Actual fb : yy Actual Fb : yy Actual Fb : Dt + LL	-6] -7] & [F1-8] tual -6] -7] & [F1-8] tual	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksl 23.76 ksi 23.76 ksi 0.00 ksi	0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi 0.00 ksi	0.00 ksi 0.00 ksi 23.76 ksa 23.76 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksi	0.00 ksi 4.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksi
fa : Actual Fb.xx : Allow [F1- Fb.xx : Allow [F1- fb : xx Act Fb : yy : Allow [F1- Fb:yy : Allow [F1- fb : yy Act fb : yy Act fb : yy Act allysis Values	-8] -7] & [F1-8] tual -6] -7] & [F1-8] tual -6,175 pc 20,690 ps	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksl 23.76 ksi 23.76 ksi 0.00 ksi Cm:x DL+i i Cm:x DL+i	0.00 ksi	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 kei 23.76 ksi 23.76 ksi 0.00 ksi	0.00 ksi 4.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksi
fa: Actual Fb.ox: Allow [F1- Fb.ox: Allow [F1- fb: xx Ac Fb: yy: Allow [F1- Fb: yy: Allow [F1- fb: yy Acl allysis Values F6: Dt-tL F6:: Dt-tL	-6] -7] & [F1-8] tusi -6] -7] & [F1-8] tusi -6,175 pc 20,690 pn 8,213 pc	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksl 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi 0.00 ksi 0.00 ksi	0.00 ksi	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi Cb:x DL+LL Cb:y DL+LL	0.00 ksi 4.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi
fa: Actual Fb::xx : Allow [F1: Fb::xx : Allow [F1: fb::xx : Allow [F1: fb::yy : Allow [F1: fb::yy : Allow [F1: fb::yy : Allow [F1: Fb::yy : Dt.+LL Fex:: Dt.+LL Fex:: Dt.+LL	-6] -7] & [F1-8] trusi -6] -7] & [F1-8] trusi - 6,175 pt - 20,690 pt - 8,213 pt - 27,518 pt	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksl 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi 0.00 ksi 0.00 ksi	0.00 ksi	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi Cbx Dt+LL Cbx Dt+LL Cbx Dt+LL Cbx Dt+LL+ST Cby Dt+LL+ST	0.00 ksi 4.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi
fa: Actual Fb.ox: Allow [F1- Fb.ox: Allow [F1- fb: xx Ao Fb: yy: Allow [F1- fb: yy: Allow [F1- fb: yy Ao Fallysis Values Fox: Dt+tL Fox: Dt+tL Fox: Dt+tL+ST Max X-X Axis De retion Properties	-6] -7] & [F1-8] trusi -6] -7] & [F1-8] trusi - 6,175 pt - 20,690 pt - 8,213 pt - 27,518 pt	0.00 ksi 0.00 ksi 23.76 ksi 23.77 ksi 23.78 ksi 0.00 ksi	0.00 ksi	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi Cbx Dt+LL Cbx Dt+LL Cbx Dt+LL Cbx Dt+LL+ST Cby Dt+LL+ST	0.00 ksi 4.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 1.00 1.00
fa: Actual Fb::xx : Allow [F1: Fb::xx : Allow [F1: fb::xx : Allow [F1: fb::yy : Allow [F1: fb::yy : Allow [F1: fb::yy : Allow [F1: Fb::xx : Allow [F1: Fex::DL+LL+ST Max X-X Apriles coction Properties	-8] -7] & [F1-8] tosl -6] -7] & [F1-8] tosl -6,175 pr -20,080 pr -8,273 pr -27,518 pr	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi Cmx DL+i i Cmx DL+i	0.00 ksi	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi Cb:x Dt+Lt Cb:x Dt+Lt Cb:x Dt+Lt+ST Cb:y Dt+Lt+ST 0.000 in at	0.00 ksi 4.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 1.00 1.00 1.00 1.00 0.000 ft
fa: Actual Fb::xx : Allow [F1: Fb::xx : Allow [F1: fb::xx : Allow [F1: fb::xy : Allow [F1: fb::yy : Allow [F1: fb::yy : Allow [F1: fb::yy : Allow [F1: Fex:: D1:+L1: Fex:: D1:+L1:+ST Fey:: D1:+L1:+ST	-6] -7] & [F1-8] tusl -6] -7] & [F1-8] tusl -6,175 pc 20,690 pc 8,213 pc 27,518 pc flection 0,000 LLZXZX3/16X	0.00 ksi 0.00 ksi 23.76 ksi 23.77 ksi 23.78 ksi 0.00 ksi	0.00 ksi	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi Cb:x DL+LL Cb:y DL+LL Cb:y DL+LL+ST Cb:y DL+LL+ST 0.000 in at	0.00 ksi 4.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 1.00 1.00 1.00 1.00 0.000 ft
Fa: Actual Fb::xx : Allow [F1: Fb::xx : Allow [F1: Fb::yx : Allow [F1: Fb::yy : Allow [F1: Fb::yx : Dt-tL Fb::yx : D	-6] -7] & [F1-8] tual -6] -7] & [F1-8] tual 6,175 pt 20,690 pt 8,213 pt 27,518 pt 6,000 in 0,188 in	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksl 23.76 ksi 0.00 ksl 23.76 ksi 0.00 ksl 23.76 ksi 0.00 ksl	0.00 ksi 4 0.60 L+ST 0.60 L+ST 0.60 Max Y-Y Axis Deflection	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi Cb:x Dt+Lt Cb:x Dt+Lt Cb:x Dt+Lt+ST Cb:y Dt+Lt+ST 0.000 in at	0.00 ksi 4.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 1.00 1.00 1.00 1.00 0.000 ft
fa: Actual Fb::xx : Allow [F1: Fb::xx : Allow [F1: fb::xx : Allow [F1: fb::xy : Allow [F1: fb::yy : Allow [F1: fb::yy : Allow [F1: fb::yy : Allow [F1: Fex:: D1:+L1: Fex:: D1:+L1:+ST Fey:: D1:+L1:+ST	-6] -7] & [F1-8] trusl -6] -7] & [F1-8] trusl -6,175 pr -20,080 pr -8,273 pr -27,518 pr -18,273 pr -27,518 pr -18,273 pr -27,518 pr -18,273 pr -27,518 pr	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 0.00 ksl 23.76 ksi 23.76 ksi 0.00 ksl 23.76 ksi 0.00 ksl 0.00 ksi	0.00 ksi 4 86#/ft Va	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi Cbx DL+LL Cbx DL+LL Cbx DL+LL+ST Cbx DL+LL+ST 0.000 ln at	0.00 ksi 4.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi 1.00 1.00 1.00 1.00
Fa: Actual Fb::xx : Allow [F1: Fb::xx : Allow [F1: Fb::yx : Allow [F1: Fb::yy : Allow [F1: Fb::yx : Dt-tL Fb::yx : D	-6] -7] & [F1-8] tual -6] -7] & [F1-8] tual 6,175 pt 20,690 pt 8,213 pt 27,518 pt 6,000 in 0,188 in	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi Cm:x DL+i i Cm:y DL+i 0 m st 0.000 ft Weight box lyy	0.00 ksi 0.050 ksi	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi Cbx Dt+LL Cbx Dt+LL Cbx Dt+LL+ST Cbx Dt+LL+ST 0.000 ln at	0.00 ksi 4.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi 1.00 1.00 1.00
fa: Actual Fb.ox: Allow [F1- Fb.ox: Allow [F1- fb: xx Allow [F1- Fb: yy: Allow [F1- Fb: yy Actual Fb: DI-+LL Fb: DI-+L Fb: DI-+	-6] -7] & [F1-8] tusl -6] -7] & [F1-8] tusl -6] -7] & [F1-8] tusl -6,175 ps 20,690 ps 8,273 ps 27,518 ps -7,518 ps -	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi Cm:x DL+i i Cm:y	0.00 ksi 4.60 LL+ST 0.60 Max Y-Y Axis Deflection 4.66 #/R Va 0.545 in4 0.381 in3	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi Cbx DL+LL Cbx DL+LL Cbx DL+LL+ST Cbx DL+LL+ST 0.000 ln at	0.00 ksi 4.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi 1.00 1.00 1.00 1.00 1.00 1.00
fa: Actual Fb::xx : Allow [F1: Fb::xx : Allow [F1: fb::xx : Allow [F1: fb::xy : Allow [F1: fb::yy : Allow [F1: fb::yy : Allow [F1: Fb::xy : Allow [F1: Fex::DL+LL+ST Max X-X Axio Daph Thickness Width	-8] -7] & [F1-8] trusl -6] -7] & [F1-8] trusl -6,175 pr 20,090 pr -8,273 pr -27,518 pr -1,273 pr	0.00 ksi 0.00 ksi 23.76 ksi 0.00 ksi Cm:x DL+i ii	0.00 ksi	0.00 ksi 0.00 ksi 23.76 ksi 23.76 ksi 23.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi Cbx Dt+LL Cbx Dt+LL Cbx Dt+LL+ST Cbx Dt+LL+ST 0.000 ln at	0.00 ksi 4.76 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi 23.76 ksi 0.00 ksi 1.00 1.00 1.00

			- manual





2. Existing Wall Section

ISSUED FOR PRICING **PRELIMINARY** NOT FOR CONSTRUCTION

1. North Elevation Scale: 3/16" = 1'-0" (PDF Not To Scale)

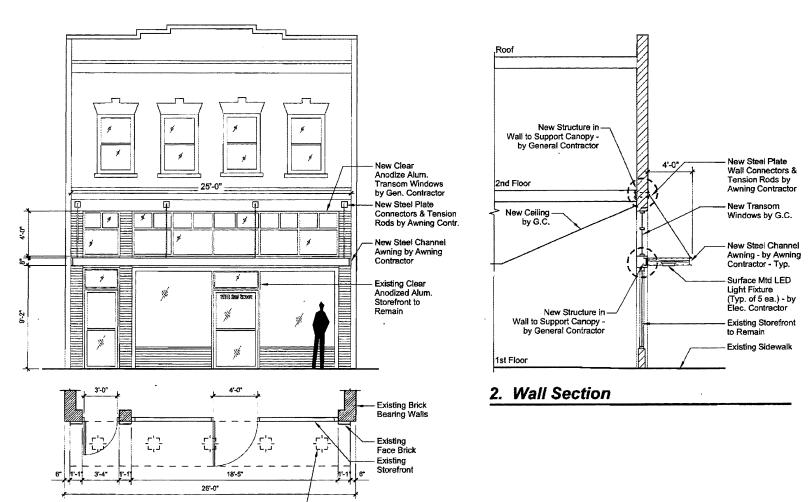
PROJECT NAME: LEMKE BUILDING FACADE SHEET: A1

PROJECT NUMBER: DATE ISSUED:

215xxx

09.16.15

Copyright © 2015 LRS Architects, Inc.



New Suface Mtd LED

Light Fixtures (Typ. of 5 ea.)

1. North Elevation Scale: 3/16" = 1'-0" (PDF Not To Scale)

ARCHITECTS 720 NW Davis 503.221,112178 Sulte 360 503.221.2377% Portland, OR 97205 www.hearchilecte.e

ISSUED FOR PRICING **PRELIMINARY** NOT FOR CONSTRUCTION

LEMKE BUILDING FACADE PROJECT NAME:

SHEET: A2

PROJECT NUMBER: DATE ISSUED:

215xxx 09.16.15

Copyright @ 2015 LRS Architects, Inc.