#### STRUCTURAL DOCUMENTS

Project:

Allstructure #

TABLE OF CONTENTS:					
	Sheet No.				

#### NOTES:

Allstructure Engineering LLC was retained in a limited capacity for this project and is responsible only for the items described in these documents.



### E-W Shear Wall Design at EW6

2015 NDS

E-W Shearwall Design at EW6 Total Length of Shearwall = 20.3 ft Length of Shortest Wall = 7.0 ft Roof Level E-W Shearwall Design at EW6 **LRFD** (Service Load - 0.7E) EQ Resisting Line Reaction-Roof at EW6 = 7.6 kips W Resisting Line Reaction-Roof at EW6 = 4.2 kips (Service Load - 0.6W) Roof Dead Load Tributary = 4.0 ft Roof Dead Load = 15.0 psf Wall Dead Load = 9.0 psf Roof Level Shear Wall Height, h<sub>s</sub> = 9.00 ft Aspect Ratio = 1.29 OK Total EQ Shear at Roof Level, v<sub>-EQ</sub> = 375.1 plf Total Wind Shear at Roof Level, v<sub>-W</sub> = 207.7 plf Single or Double Sided Sheathing? Single Sided EQ Shear Wall Callout = B Type B Shearwall EQ Shear Wall Capacity = 380 plf Wind Shear Wall Callout = A Wind Shear Wall Capacity = 365 plf Overturning Moment, M<sub>OT-EQ</sub> = 23633 ft-# Overturning Moment, Mot-w = 13084 ft-# Righting Moment, M<sub>R</sub> = 3455 ft-#  $T_{net} = \frac{M_{OT} - 0.6M_R}{I}$  $T_{net} = 2932 #$ (2) Simpson CS16 x 46" Type HD2 4th Floor E-W Shearwall Design at EW6 **LRFD** EQ Resisting Line Reaction-4th at EW6 = 16.5 kips (Service Load - 0.7E) W Resisting Line Reaction-4th at EW6 = 8.5 kips (Service Load - 0.6W) Floor Dead Load Tributary = 4.0 ft Floor Dead Load = 35.0 psf Fixed Wall Height Wall Dead Load = 9.0 psf 4th Level Shear Wall Height, hs = 10.00 ft Aspect Ratio = 1.43 OK Total EQ Shear at 4th Level, v-EQ = 817.0 plf Total Wind Shear at 4th Level, v-W = 421.0 plf Single or Double Sided Sheathing? Single Sided EQ Shear Wall Callout = No Shear Wall Solution Type No Shear Wall Solution Shearwall EQ Shear Wall Capacity = #N/A

Wind Shear Wall Callout = B
Wind Shear Wall Capacity = 533 plf
Overturning Moment, M<sub>OT-EQ</sub> = 80820 ft-#
Overturning Moment, M<sub>OT-W</sub> = 42553 ft-#

Righting Moment, M<sub>R</sub> = 9090 ft-#

T<sub>net</sub> = 10377 #

 $T_{net} = \frac{M_{OT} - 0.6M_R}{l}$ 

(2) Simpson CMST12 x 95" Type HD11

Job Number: 19000.00

# Æ

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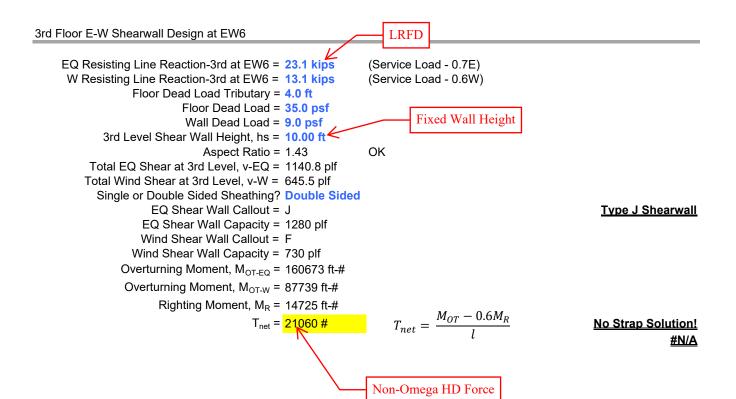
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#### **6TH AVE RESPONSE TO COMMENTS**

Υ	SE	DATE	11.02.23

JOB NO 19334.00

SHEET OF P-1





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6TH AVE RESPONSE TO COMMENTS	BY SE	_ DATE11.02.23
	CHK BY	DATE
	JOB NO	19334.00
		P-2



Company:	Date:	9/8/2022
Engineer:	Page:	1/5
Project:		
Address:		
Phone:		
E-mail:		

#### 1.Project information

Customer company: Customer contact name: Customer e-mail: Comment:

Location: Fastening description:

Project description:

#### 2. Input Data & Anchor Parameters

#### General

Design method:ACI 318-19 Units: Imperial units

#### **Anchor Information:**

Anchor type: Bonded anchor Material: F1554 Grade 36 Diameter (inch): 1.250

Effective Embedment depth, hef (inch): 12.000

Code report: ICC-ES ESR-4057

Anchor category: -Anchor ductility: Yes h<sub>min</sub> (inch): 14.75 c<sub>ac</sub> (inch): 20.40 C<sub>min</sub> (inch): 2.75 S<sub>min</sub> (inch): 6.00

#### **Base Material**

Concrete: Normal-weight

Concrete thickness, h (inch): 24.00

State: Uncracked

Compressive strength, f'c (psi): 3000

Ψ<sub>c,V</sub>: 1.0

Reinforcement condition: Supplementary reinforcement not present

Supplemental edge reinforcement: No Reinforcement provided at corners: No Ignore concrete breakout in tension: No Ignore concrete breakout in shear: No

Hole condition: Dry concrete Inspection: Continuous

Temperature range, Short/Long: 150/110°F Ignore 6do requirement: Not applicable

Build-up grout pad: No

#### **Recommended Anchor**

Anchor Name: SET-3G - SET-3G w/ 1 1/4"Ø F1554 Gr. 36

Code Report: ICC-ES ESR-4057





Company:	Date:	9/8/2022
Engineer:	Page:	2/5
Project:		
Address:		
Phone:		
E-mail:		

**Load and Geometry** Load factor source: ACI 318 Section 5.3

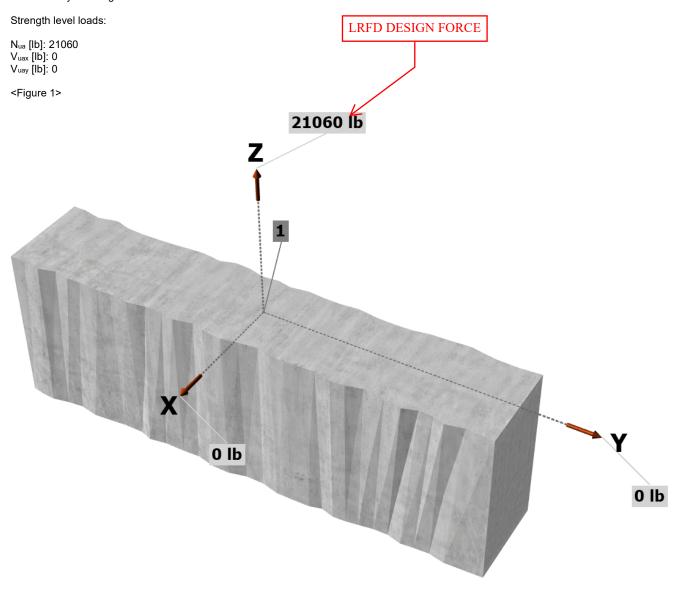
Load combination: not set Seismic design: Yes

Anchors subjected to sustained tension: No Ductility section for tension: 17.10.5.3 (d) is satisfied Ductility section for shear: 17.10.6.2 not applicable

 $\Omega_0$  factor: not set

Apply entire shear load at front row: No

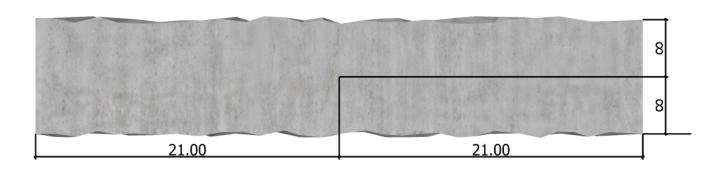
Anchors only resisting wind and/or seismic loads: Yes





Company:	Date:	9/8/2022
Engineer:	Page:	3/5
Project:		
Address:		
Phone:		
E-mail:		

<Figure 2>





Company:	Date:	9/8/2022
Engineer:	Page:	4/5
Project:		
Address:		
Phone:		
E-mail:		_

3. Resulting Anchor Forces

Anchor	Tension load, N <sub>ua</sub> (lb)	Shear load x, V <sub>uax</sub> (lb)	Shear load y, V <sub>uay</sub> (lb)	Shear load combined, $\sqrt{(V_{uax})^2+(V_{uay})^2}$ (Ib)
1	21060.0	0.0	0.0	0.0
Sum	21060.0	0.0	0.0	0.0

Maximum concrete compression strain (‰): 0.00 Maximum concrete compression stress (psi): 0 Resultant tension force (lb): 21060 Resultant compression force (lb): 0

Eccentricity of resultant tension forces in x-axis, e'<sub>Nx</sub> (inch): 0.00 Eccentricity of resultant tension forces in y-axis, e'<sub>Ny</sub> (inch): 0.00

#### 4. Steel Strength of Anchor in Tension (Sec. 17.6.1)

Nsa (lb)	$\phi$	$\phi N_{sa}$ (lb)
56200	0.75	42150

#### 5. Concrete Breakout Strength of Anchor in Tension (Sec. 17.6.2)

f'c (psi)

21.00

hef (in)

1.000

 $N_b = k_c \lambda_a \sqrt{f'_c h_{ef}}^{1.5}$  (Eq. 17.6.2.2.1)

1296.00

24.0	1.00	3000	12.000	54644			
$0.75\phi N_{cb} = 0$	$0.75\phi$ (Anc / Anco	$(\mathcal{Y}_{cd,N} \mathcal{\Psi}_{c,N} \mathcal{\Psi}_{cp,N} \mathcal{N})$	b (Sec. 17.5.1.	2 & Eq. 17.6.2.	la)		
$A_{Nc}$ (in <sup>2</sup> )	A <sub>Nco</sub> (in <sup>2</sup>	Camin (in)	$\Psi_{edN}$	$\Psi_{cN}$	$\Psi_{co,N}$	٨	<i>l<sub>b</sub></i> (lb)

1.000

54644

0.65

26639

1.00

N<sub>b</sub> (lb)

#### 6. Adhesive Strength of Anchor in Tension (Sec. 17.6.5)

 $\tau_{k,uncr} = \tau_{k,uncr} f_{short-term} K_{sat} \alpha_{N.seis} (f_c / 2,500)^n$ 

1296.00

$ au_{k,uncr}$ (psi)	<b>f</b> <sub>short-term</sub>	K <sub>sat</sub>	αn.seis	$f_c$ (psi)	n	$ au_{k,uncr}$ (psi)		
1672	1.00	1.00	1.00	3000	0.35	1782		
$N_{ba} = \lambda_a \tau_{uncr} \pi$	dahef (Eq. 17.6	.5.2.1)						
λa	$ au_{uncr}$ (psi)	d <sub>a</sub> (in)	h <sub>ef</sub> (in)	$N_{ba}$ (lb)				
1.00	1782	1.25	12.000	83983				
$0.75\phi N_a = 0.7$	75 $\phi$ (Ana / Anao)	$arPsi_{ed,Na} arPsi_{cp,Na} N_{ba}$	(Sec. 17.5.1.2 &	Eq. 17.6.5.1a)				
$A_{Na}$ (in <sup>2</sup> )	$A_{Na0}$ (in <sup>2</sup> )	c <sub>Na</sub> (in)	Ca,min (in)	$arPsi_{\sf ed,Na}$	$arPsi_{ m  extsf{p},Na}$	Nao (lb)	$\phi$	$0.75\phi N_a$ (lb)
950.00	950.00	15.41	21.00	1.000	1.000	83983	0.65	40942



Company:	Date:	9/8/2022
Engineer:	Page:	5/5
Project:		
Address:		
Phone:		
E-mail:		

#### 11. Results

#### Interaction of Tensile and Shear Forces (Sec. 17.8)

Tension	Factored Load, Nua (lb)	Design Strength, øNn (lb)	Ratio	Status
Steel	21060	42150	0.50	Pass
Concrete breakout	21060	26639	0.79	Pass (Governs)
Adhesive	21060	40942	0.51	Pass

SET-3G w/ 1 1/4"Ø F1554 Gr. 36 with hef = 12.000 inch meets the selected design criteria.

#### 12. Warnings

- Per designer input, ductility requirements for tension have been determined to be satisfied designer to verify.
- Per designer input, the shear component of the strength-level earthquake force applied to anchors does not exceed 20 percent of the total factored anchor shear force associated with the same load combination. Therefore the ductility requirements of ACI 318 17.10.6.2 for shear need not be satisfied designer to verify.
- Designer must exercise own judgement to determine if this design is suitable.
- Refer to manufacturer's product literature for hole cleaning and installation instructions.

# 6TH AVE PLAN CHECK

- · DESIGN CAPACUTY OF CONCRETE IN BREAKOUT => & BN = 266391bs
- · TRY 3/8×14 BAR (50KSI STEEL)
- ØRe= 1.1 \* SOKSI \* (3/6" × 1/4") = 2578" = 26639" LRy FOR ASTZ GITSO

  — Ø=1.0

. SATISFIES DUCTILITY REQUIREMENTS

- · DESIGN LOAD PER ANALYSIS => TU= 21060165
- · ØRN= 0.9×50 KSIX (3/8"× 1"4") = 21094 16> ≥TJ

. . SATISFIES STRENGTH REQUIREMENTS

· CAPACITY OF FILLET WELD W/ S/16", NEGLECT SHOT SIDE BUT WELD FOR RETURN

3/8" × 11/4 PLATE IS O. K

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### 6th Aue Plan-Grecic

- · CHECK REQUIRED PLATE TO ELIMINATE PRYING
  - -Tu= 21060165
  - B= 1"
  - Ø= O.9
  - -FJ=65K81
  - P= 1/4" = CONSETRUALLEN CONSIDER P WHOTH LUSTED OF FLAT PHATE
  - two = \ \frac{4Tob'}{8PFU} = 1.07"
- · CHECK NOT BEARING ON STEEL PLATE
  - To =21060's
  - BENRING CAPACITY => ORN= 0.75×1.8 Fy xAb=>
    - . . Ab, TEQ = 21060/(.75×1.3×50 KG)= 0.312,2
  - .. TTRICAL NUT IS O.K, BEATURG AREA REQUIRED IS LOW

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6TH AVE RESPONSE TO COMMENTS	BY SE	11.02.23
	CHK BY	DATE
	JOB NO	19334.00
		P-9

Total Length of Shearwall @ 2nd= 34.0 ft Length of Shortest Wall @ 2nd= 8.5 ft EQ Resisting Line Reaction-2nd at EW5 = 14.0 kips (Service Load - 0.7E) W Resisting Line Reaction-2nd at EW5 = 6.4 kips (Service Load - 0.6W) Floor Dead Load Tributary = 4.0 ft Floor Dead Load = 35.0 psf Adjusted to be LRFD Level Wall Dead Load = 9.0 psf Load 2nd Level Shear Wall Height, hs = 16.00 ft Aspect Ratio = 1.88 OK Total EQ Shear at 2nd Level, v-EQ = 411.1 plf Total Wind Shear at 2nd Level, v-W = 187.1 plf Single or Double Sided Sheathing? Single Sided EQ Shear Wall Callout = C Type C Shearwall Includes 2.5 for omega EQ Shear Wall Capacity = 490 plf Wind Shear Wall Callout = A Wind Shear Wall Capacity = 365 plf Overturning Moment, M<sub>OT-EQ</sub> = 139772 ft-# Overturning Moment, M<sub>OT-W</sub> = 67439 ft-# Righting Moment, M<sub>R</sub> = 36732 ft-#  $T_{net} = \frac{M_{OT} - 0.6M_R}{l}$  $T_{net} = 13851 #$ Simpson HD 19

	S	1
<u>†</u>		T

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6TH AVE RESPONSE TO COMMENTS	BY _	SE	DATE	11.02.23
	CHK	BY	DATE	
	JOB	NO	193	34.00
	CULE	_	٥٢	P-10

Type HD10



Company:	Date:	9/8/2022
Engineer:	Page:	1/5
Project:		
Address:		
Phone:		
E-mail:		

#### 1.Project information

Customer company: Customer contact name: Customer e-mail:

Comment:

#### 2. Input Data & Anchor Parameters

#### General

Design method:ACI 318-19 Units: Imperial units

#### **Anchor Information:**

Anchor type: Bonded anchor Material: F1554 Grade 55 Diameter (inch): 1.250

Effective Embedment depth, hef (inch): 12.000

Code report: ICC-ES ESR-4057

Anchor category: Anchor ductility: Yes
h<sub>min</sub> (inch): 14.75
c<sub>ac</sub> (inch): 20.40
C<sub>min</sub> (inch): 2.75
S<sub>min</sub> (inch): 6.00

#### **Recommended Anchor**

Anchor Name: SET-3G - SET-3G w/ 1 1/4"Ø F1554 Gr. 55

Code Report: ICC-ES ESR-4057



Project description:

Location:

Fastening description:

#### **Base Material**

Concrete: Normal-weight

Concrete thickness, h (inch): 24.00

State: Uncracked

Compressive strength, f'c (psi): 3000

 $\Psi_{c,V}{:}~1.0$ 

Reinforcement condition: Supplementary reinforcement not present

Supplemental edge reinforcement: No Reinforcement provided at corners: No Ignore concrete breakout in tension: No Ignore concrete breakout in shear: No

Hole condition: Dry concrete Inspection: Continuous

Temperature range, Short/Long: 150/110°F Ignore 6do requirement: Not applicable

Build-up grout pad: No



Company:	Date:	9/8/2022
Engineer:	Page:	2/5
Project:		
Address:		
Phone:		
E-mail:		

**Load and Geometry** Load factor source: ACI 318 Section 5.3

Load combination: not set Seismic design: Yes

Anchors subjected to sustained tension: No Ductility section for tension: 17.10.5.3 (d) is satisfied Ductility section for shear: 17.10.6.2 not applicable

 $\Omega_0$  factor: not set

Apply entire shear load at front row: No

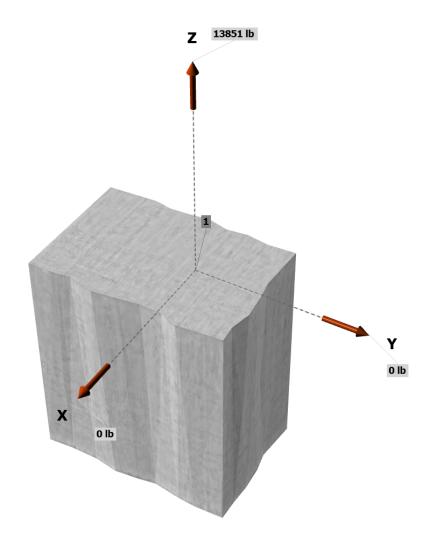
Anchors only resisting wind and/or seismic loads: Yes

#### Strength level loads:

N<sub>ua</sub> [lb]: 13851 V<sub>uax</sub> [lb]: 0

Vuay [lb]: 0

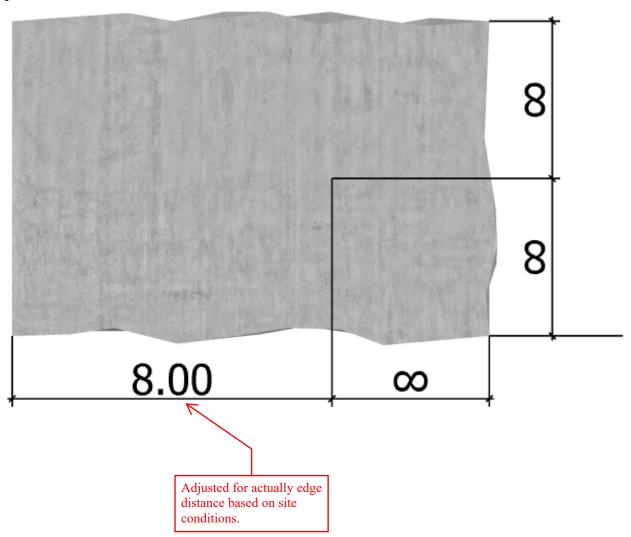
<Figure 1>





Company:	Date:	9/8/2022
Engineer:	Page:	3/5
Project:		
Address:		
Phone:		
E-mail:		_

<Figure 2>





Company:	Date:	9/8/2022
Engineer:	Page:	4/5
Project:		
Address:		
Phone:		
E-mail:		_

3. Resulting Anchor Forces

Anchor	Tension load, N <sub>ua</sub> (lb)	Shear load x, V <sub>uax</sub> (lb)	Shear load y, V <sub>uay</sub> (lb)	Shear load combined, $\sqrt{(V_{uax})^2+(V_{uay})^2}$ (lb)
1	13851.0	0.0	0.0	0.0
Sum	13851.0	0.0	0.0	0.0

Maximum concrete compression strain (‰): 0.00 Maximum concrete compression stress (psi): 0 Resultant tension force (lb): 13851 Resultant compression force (lb): 0

Eccentricity of resultant tension forces in x-axis, e'<sub>Nx</sub> (inch): 0.00 Eccentricity of resultant tension forces in y-axis, e'<sub>Ny</sub> (inch): 0.00

#### 4. Steel Strength of Anchor in Tension (Sec. 17.6.1)

Nsa (lb)	$\phi$	$\phi N_{sa}$ (lb)
72675	0.75	54506

#### 5. Concrete Breakout Strength of Anchor in Tension (Sec. 17.6.2)

f'c (psi)

3000

hef (in)

12 000

 $N_b = k_c \lambda_a \sqrt{f'_c h_{ef}}^{1.5}$  (Eq. 17.6.2.2.1)

1 00

24.0

24.0	1.00	3000	12.000	3-10-1-1				
$0.75\phi N_{cb} = 0.75\phi (A_{Nc}/A_{Nco}) \Psi_{ed,N} \Psi_{c,N} \Psi_{cp,N} N_b$ (Sec. 17.5.1.2 & Eq. 17.6.2.1a)								
$A_{Nc}$ (in <sup>2</sup> )	$A_{Nco}$ (in <sup>2</sup>	c <sub>a,min</sub> (in)	$\Psi_{ed,N}$	$\Psi_{c,N}$	$arPsi_{cp,N}$	$N_b$ (lb)	$\phi$	$0.75\phi N_{cb}$ (lb)
936.00	1296.00	8.00	0.833	1.00	0.882	54644	0.65	14149

N<sub>b</sub> (lb)

E1611

#### 6. Adhesive Strength of Anchor in Tension (Sec. 17.6.5)

 $\tau_{k,uncr} = \tau_{k,uncr} f_{short-term} K_{sat} \alpha_{N.seis} (f_c / 2,500)^n$ 

$ au_{k,uncr}$ (psi)	<b>f</b> <sub>short-term</sub>	$K_{sat}$	αN.seis	$f_c$ (psi)	n	$ au_{k,uncr}$ (psi)		
1672	1.00	1.00	1.00	3000	0.35	1782		
$N_{ba} = \lambda_a \tau_{uncr} \pi$	d <sub>a</sub> h <sub>ef</sub> (Eq. 17.6	.5.2.1)						
λa	$ au_{uncr}$ (psi)	d <sub>a</sub> (in)	h <sub>ef</sub> (in)	$N_{ba}$ (lb)				
1.00	1782	1.25	12.000	83983				
$0.75\phi N_a = 0.75\phi (A_{Na}/A_{Na0}) \Psi_{ed,Na} \Psi_{cp,Na} N_{ba}$ (Sec. 17.5.1.2 & Eq. 17.6.5.1a)								
$A_{Na}$ (in <sup>2</sup> )	$A_{Na0}$ (in <sup>2</sup> )	c <sub>Na</sub> (in)	Ca,min (in)	$arPsi_{\sf ed,Na}$	$arPsi_{ m  extsf{p},Na}$	Nao (lb)	$\phi$	$0.75\phi N_a$ (lb)
721.58	950.00	15.41	8.00	0.856	0.756	83983	0.65	20106



Company:	Date:	9/8/2022
Engineer:	Page:	5/5
Project:		
Address:		
Phone:		
E-mail:		

#### 11. Results

#### Interaction of Tensile and Shear Forces (Sec. 17.8)

Tension	Factored Load, N <sub>ua</sub> (Ib)	Design Strength, øNn (lb)	Ratio	Status
Steel	13851	54506	0.25	Pass
Concrete breakout	13851	14149	0.98	Pass (Governs)
Adhesive	13851	20106	0.69	Pass

SET-3G w/ 1 1/4"Ø F1554 Gr. 55 with hef = 12.000 inch meets the selected design criteria.

#### 12. Warnings

- Per designer input, ductility requirements for tension have been determined to be satisfied designer to verify.
- Per designer input, the shear component of the strength-level earthquake force applied to anchors does not exceed 20 percent of the total factored anchor shear force associated with the same load combination. Therefore the ductility requirements of ACI 318 17.10.6.2 for shear need not be satisfied designer to verify.
- Designer must exercise own judgement to determine if this design is suitable.
- Refer to manufacturer's product literature for hole cleaning and installation instructions.



#### FIELD REPORT

**Date:** March 3, 2023

**Project Name:** 6<sup>th</sup> Ave Mixed Use

**Project #:** 19344.00

**Location:** Portland, Oregon

Weather: Overcast Temperature: 40 degrees

**Present at Site:** Spencer Ehl - Allstructure Engineering, LLC

Joe Bradford – Urban Evolution Development, Inc.

Jeremy Williams – JF Construction Comapny

#### Remarks:

On January 14, 2023 Allstructure performed a general site observation to observe the wood framing for the above noted project. Status of the project is as follows:

- General wood framing has been completed for all stories of the structure.
- The interior shear walls have been nailed off with specified hold downs.
- Floor sheathing has been installed at all levels.
- Exterior walls in the N-S direction were not observable from the outside due to proximity to the adjacent building.

The work observed during the visit was in general conformance with the structural drawings with the following exceptions:

- Typical nailing on several Type K walls was noted as being wider than 2" O.C per the shear wall schedule on S1.0. Additional nails shall be added so that the average spacing shall provide (6) nails every 12". Care shall be taken to not over nail the sheathing. Additional nails shall be a minimum of 1" from adjacent nails.
- Several HD11 Hold downs were noted only having (1) of the (2) required CMST12 straps per the schedule on S1.0. Additionally, some were not fully nailed off. All shear walls with HD11 hold downs shall have (2) CMST12 straps with (84) 16d nails per strap at each end of the shear wall.
- Shear walls spanning across party walls are interrupted by the transverse wall and are required to be blocked in for fire rating. Please see Exhibit A for the required splice connection across the party wall.
- Along Gridline I the hold down at the first floor shear wall does not align with anchor installed in the concrete. Please see Exhibit B for the required fix.
- Along Gridline H at the second floor the shear wall in the West stair wall has hold downs that are not supported by a structural member below. Please see Exhibit C for the required fix.
- Along Gridline H.5 on the West side of the building the shear wall hold down is misaligned and needs to be attached to the wall. See Exhibit D.

March 3, 2023 Field Report Page 2 of 2

- Along Gridline J at the second floor the shear walls stacking above do not align with the beam line between Gridline 4/5. Please sheath per plan the southern wall of the double wall that is currently aligned with the 2<sup>nd</sup> floor framing beams starting at the roof all the way down. This beam is aligned with the steel column and the HD10 in the East stem wall. See Exhibit E.
- Headers above the openings along Gridline L at the brick façade are not located above the opening. Headers per plan are required to be located directly above the openings to allow for the installation of the brick lintel per Detail 15/S4.1.

The above noted discrepancies were discussed with the design team during the visit and will be remedied prior to building completion. Allstructure's observation was limited to the above noted items at the time of the visit.

If you have any questions, please do not hesitate to contact us.

Submitted by:

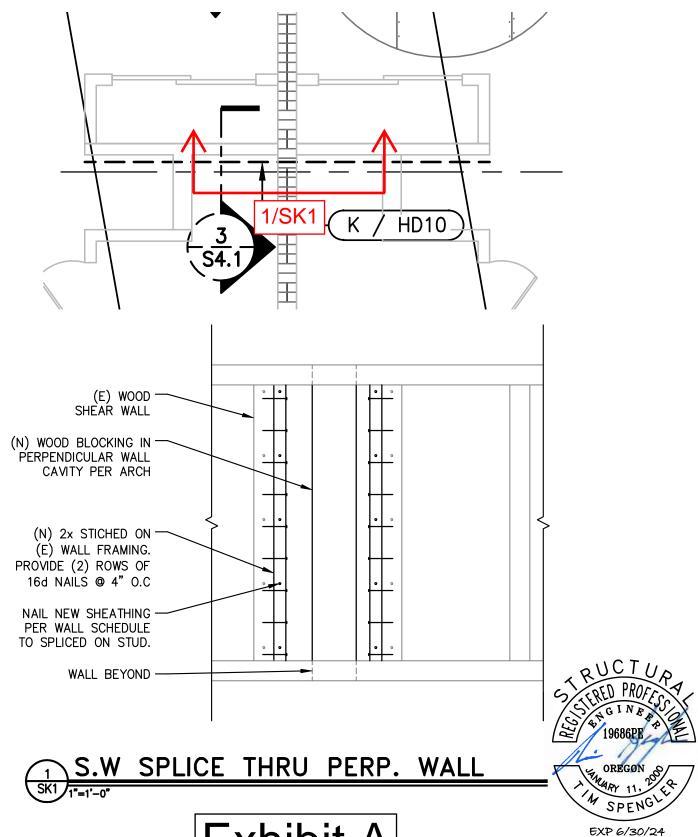
Spencer Ehl, PE Project Engineer

Copy to:

All present (or list out)

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ALLSTRUCTURE	6th Ave Apartment Framing Observation	BY SE DATE	03.03.23
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16535 SW 72nd Ave.		JOB NO 19334.	.00
Portland, OR 97224 503.620.4314   allstructure.com		SHEET OF	Page 2 of 8



# Exhibit A

6th Ave Apartment Framing Observation By SE DATE 03 03 23

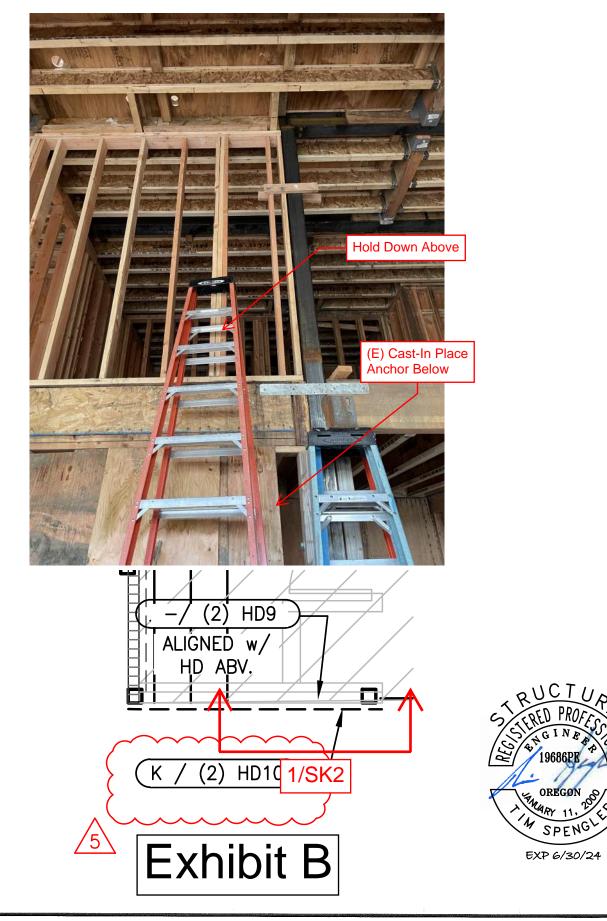


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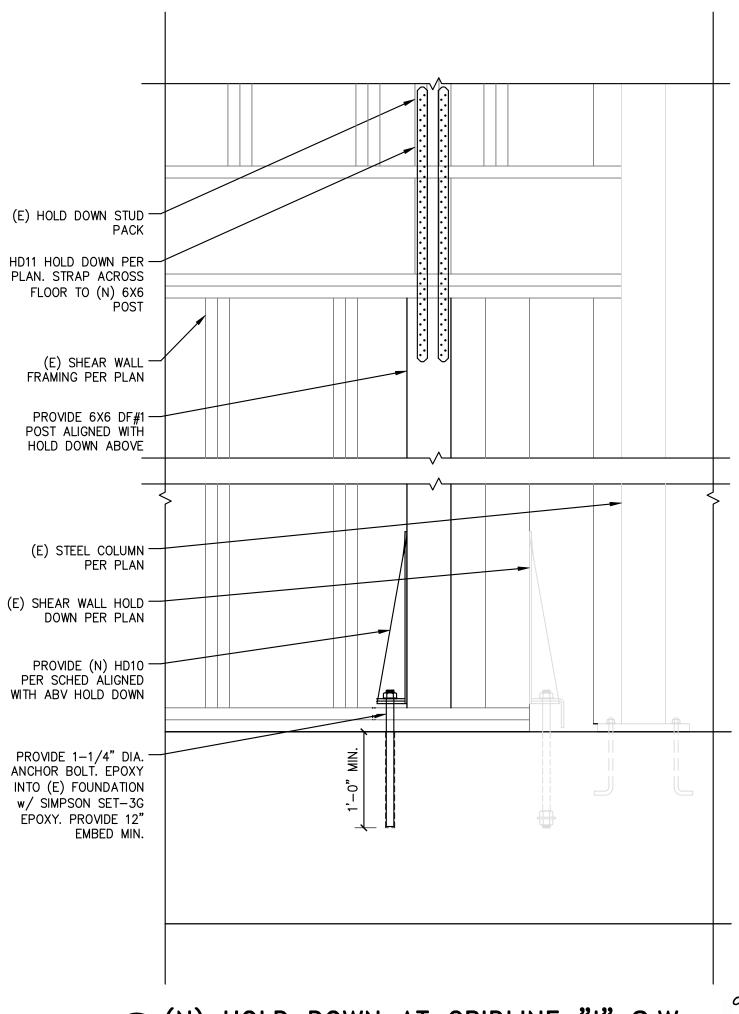
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	CHK BY	DATE
	000 110	19334.00
	SHEET	of Page 3 of





## ALLSTRUCTURE ENGINEERING

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(N) HOLD DOWN AT GRIDLINE "I" S.W

# Exhibit B

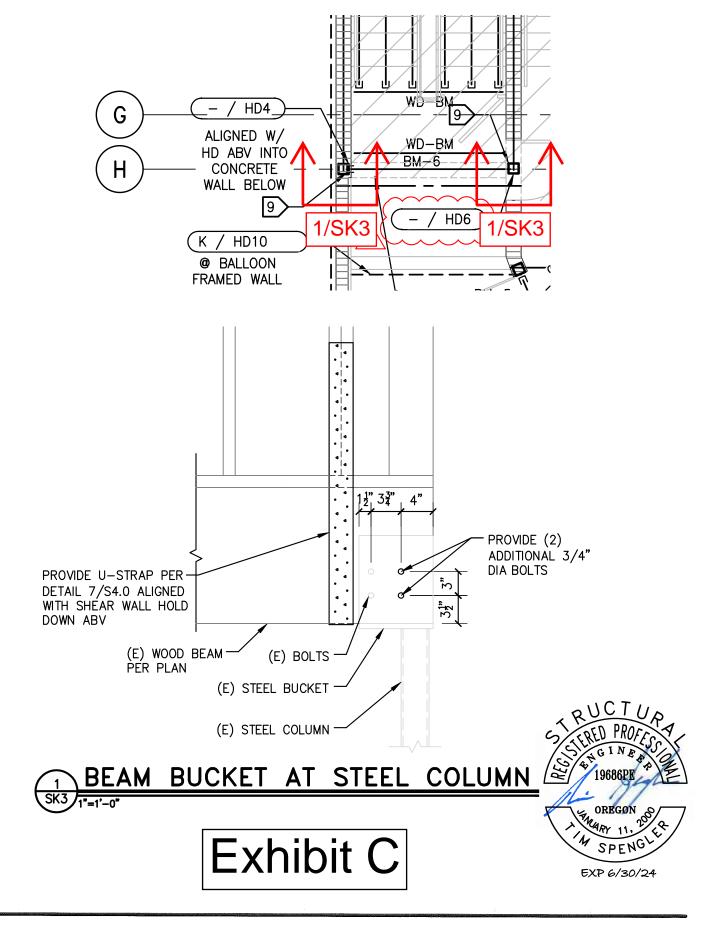


ALLSTRUCTURE 6th Ave Apartment Framing Observation By SE DATE 03.03.23

CHK BY DATE

16535 SW 72nd Ave.
Portland, OR 97224
503.620.4314 | allstructure.com

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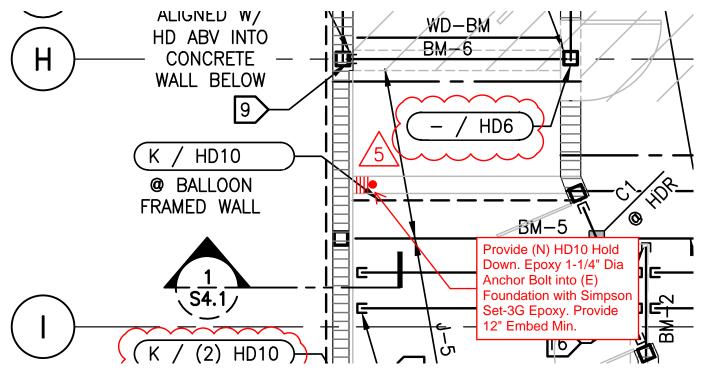




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Portland,	OR 97224
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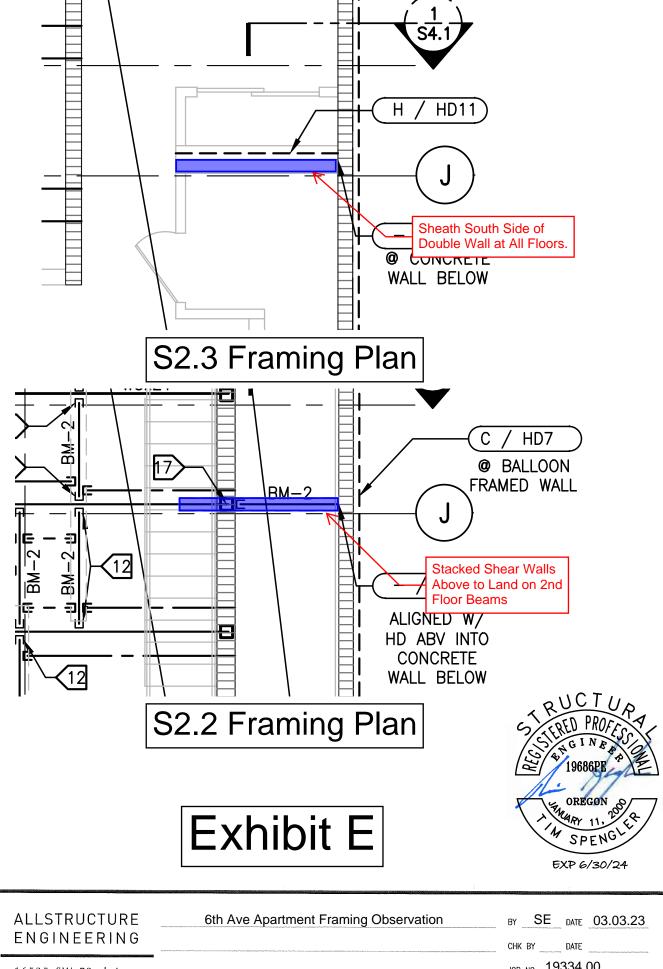
# Exhibit D



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