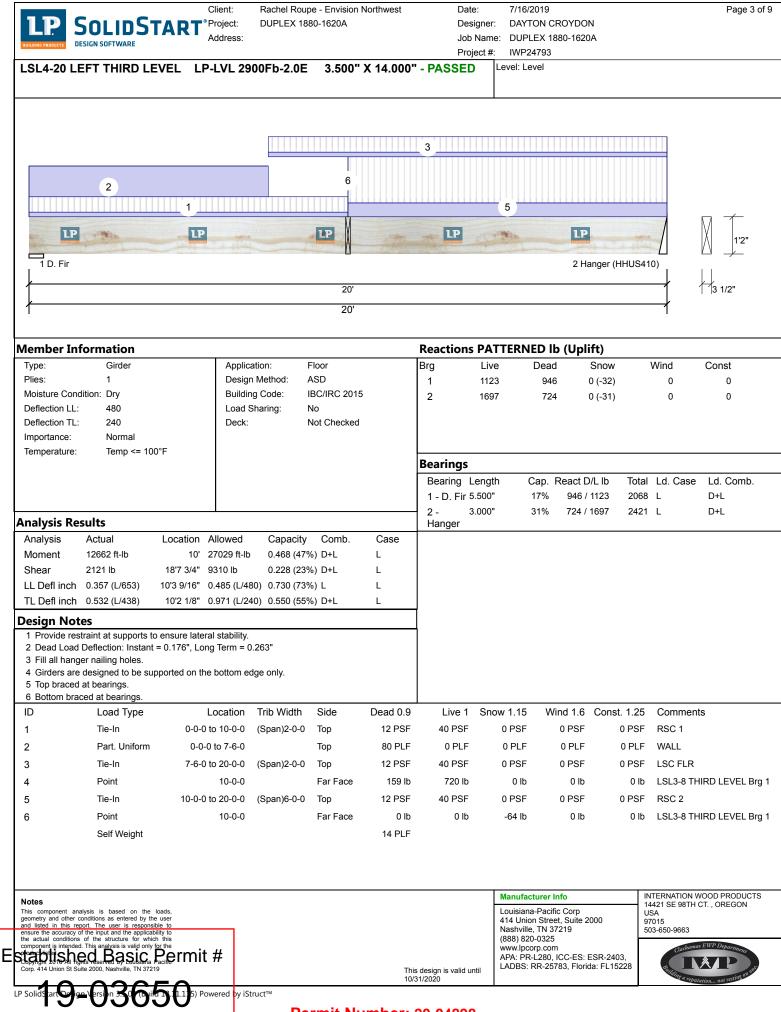
	-			el Roupe - Envision N	lorthwest		Date:	7/16/2019			Page 1 c
	OLIDSTA		oject: DUPL dress:	EX 1880-1620A			Designer:	DAYTON CRO DUPLEX 188			
BUILDING PRODUCTS	IGN SOFTWARE	Au	uiess.				Project #:		J-1020A		amplianc
12-20 TH			_PI 56	14.000" -	DACC		<u> </u>	Level: Level		U for col	
52-20 11			_F1 30	14.000	FAJU				Review	with IR	de complianc C 2015 Ilding Departi
									Kitsap C	ounty Bu mith@co 11/1	je comp^o 2 2015 <u>ilding Departi</u> kitsa p,wa.us 3/2020
				1							
LP		LP		LP		LP			LP		1'2"
1 SPF								2 Ha	anger (IUS3.56/*	14 (Min))	
1				20'							3 1/2"
1				20'							
/lember Info	ormation					Reactio	ons PAT	TERNED Ib	(Uplift)		
Туре:	Joist		Application:	Floor		Brg	Live		Snow	Wind	Const
Spacing: Moisture Conditi	24" o.c.		Design Metho Building Code			1	805		0	0	0
Deflection LL:	480		Load Sharing:			2	795	5 239	0	0	0
Deflection TL:	240		Deck:	23/32 APA Rat	ed Sturd-						
Importance:	Normal			I-FloorOSB Na							
Temperature:	Temp <= 100°F		Vibration:	Glued OK							
			Vibration Spar			Bearing	gs				
			nordaen opui			Bearing	g Length	n Cap. Re	eact D/L lb	Total Ld. Ca	ase Ld. Comb.
						1 - SPF	3.500"	72%	242 / 805	1047 L	D+L
nalysis Resu	ulte					2 -	2.000"	85%	239 / 795	1034 L	D+L
-		ocation All	owed Ca	pacity Comb.	Case	Hanger					
		10' 3/4" 122		10 (41%) D+L	L						
		9'10 3/4" 233		39 (44%) D+L	L			BASIC P			E
LL Defl inch	0.286 (L/826) 10)' 13/16" 0.4	92 (L/480) 0.5		L						
TL Defl inch	. ,)' 13/16" 0.9	083 (L/240) 0.38	80 (38%) D+L	L		REVI	EWED FC			LIANCE
LL Bare Defl			56 (L/360) 0.50		40 PSF L				TH IRC 2		
Design Note	5					T KI	ISAP	COUNTY	' BUILDII	NG DEP	ARTMENT
	aint at supports to en:	sure lateral s	stability.			4					
2 Dead Load D3 Fill all hanger	Deflection: Instant = 0.	0.086", Long T									
ID	Load Type		cation Trib V	Vidth Dead 0.9	Live	1 Snow	1.15	Wind 1.6 Con	st. 1.25 Con	nments	
1	Uniform		2-0-0	12 PSF	40 PS	SF C	PSF	0 PSF	0 PSF		
							<u> </u>	Manufacturer Inf	>		ON WOOD PRODUCTS
	sis is based on the loads	s,					F	Louisiana-Pacific		- 14421 SE 98 USA	8TH CT. , OREGON
This component analys								414 Union Street,	Suite 2000	97015	
This component analys geometry and other com and listed in this report	nditions as entered by the user rt. The user is responsible to	0						Nashville TN 372	19	503-660-066	63
This component analys geometry and other com- and listed in this repor- ensure the accuracy of the actual conditions of	nditions as entered by the user rt. The user is responsible to the input and the applicability to the structure for which this	0						Nashville, TN 372 (888) 820-0325	19	503-650-966	53
geometry and other com and listed in this report ensure the accuracy of the actual conditions of	nditions as entered by the user rt. The user is responsible to the input and the applicability to the structure for which this	0	ŧ					(888) 820-0325 www.lpcorp.com APA: PR-L238, IC	C-ES: ESR-1305,	Cla	ckamas EWP Department
This component analys geometry and other com- and listed in this repor- ensure the accuracy of the actual conditions of	nditions as entered by the user rt. The user is responsible to the input and the applicability to	0	ŧ		Thi	s design is va 31/2020		(888) 820-0325 www.lpcorp.com	C-ES: ESR-1305,	Cla	kamas EWP Depariment

	SOLIDST SIGN SOFTWARE			Rachel Roup DUPLEX 188	e - Envision N 30-1620A	lorthwest	D	ate: esigner: ob Name: roject #:	7/16/2019 DAYTON C DUPLEX 18 IWP24793				Page 2 o
LSL3-8 TH	IIRD LEVEL	LP-LVI	L 2900Fb	-2.0E	1.750" X	14.000"	- PASS	ED L	evel: Level				
				- 2									
		1			4	3							
	LP			LP	*		*						1'2"
1 Hanger	· (HU14 (Min))			2 D.	Fir								
		6'			1	2'							1 3/4"
1			8'				1						
Member Inf	ormation						Reaction	ns PAT	TERNED I	b (Uplift)	1		
Туре:	Girder		Applicatio	on: F	loor		Brg	Live				Wind	Const
Plies:	1		Design M		ASD		1	720				0	0
Moisture Cond Deflection LL:	ition: Dry 480		Building Load Sha		BC/IRC 2015 No		2	814	759	2	126	0	0
Deflection TL:	240		Deck:	•	Not Checked								
Importance:	Normal	0 –											
Temperature:	Temp <= 100	۴					Bearing	s					
							Bearing		Cap.	React D/L I	b Tota	al Ld. Case	Ld. Comb.
							1 -	2.500"	27%	159 / 72	20 87	9 L_	D+L
Analysis Res	sults						Hanger 2 - D. Fir	r 3 500"	44%	759 / 93	168	9 LL	D+0.75(L+S)
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	2-0.11	0.000		100100	100		D:0.75(E:0)
Neg Moment			15542 ft-lb	0.052 (5%)		_L							
Pos Moment		2'9 1/16"		0.080 (8%)		L_							
Shear	630 lb	4'8 1/4" ·		0.135 (14%	·	LL							
	0.012 (L/5825) 0.014 (L/5006)		0.143 (L/480) 0.285 (L/240)			L_ L							
LL Cant	-0.008	Rt Cant	, ,	0.040 (4%)		L_							
TL Oant	(2L/5976)		(2L/480)	0.026 (49/)		_							
TL Cant	0.011 (2L/4423)	Rt Cant	(2L/240)	0.036 (4%)) D+5	LL							
Design Note													
	raint at supports to Deflection: Instant =			03"									
3 Fill all hange	er nailing holes.	,	0										
4 Girders are 5 Top braced	designed to be sup at bearings.	ported on the	e bottom edge	e only.									
6 Bottom brac	ed at bearings.	-	=		0.1	D 1.5.5		4 0	<u> </u>				
ID 1	Load Type			rib Width	Side	Dead 0.9				ind 1.6 Co			ts
1 2	Tie-In Tie-In			Span)10-0-0 Span)2-0-0	Тор Тор	12 PSF 12 PSF	40 PS 40 PS		0 PSF 0 PSF	0 PSF 0 PSF	0 PSF	E LSC FLR	
2 3	Part. Uniform		0 to 8-0-0 (3 0 to 8-0-0	Span)2-0-0	тор Тор	12 PSF 80 PLF	40 PSI 0 PLI		0 PSF 0 PLF	0 PSF 0 PLF	0 PSF 0 PLF		
3	Part. Onliorn Tie-In			Span)14-6-0	•	17 PSF	0 PL		0 PLF 25 PSF	0 PLF	0 PLF		
	Self Weight	0-0-0			.~.	7 PLF	510	- -			0101		
	· · · · · · · · · · · · · · · · · · ·												
Notes									Manufacturer	nfo		INTERNATION V 14421 SE 98TH	
This component ana geometry and other co	lysis is based on the lo onditions as entered by the	user							Louisiana-Pacif 414 Union Stre			USA 97015	UI., UKEGUN
and listed in this rep ensure the accuracy of	ort. The user is responsib f the input and the applicabil	le to ity to						1	Nashville, TN 3 (888) 820-0325	7219	Ļ	503-650-9663	
component is intended.	This analysis is valid only for this energy of the structure for which the second structure for the second structure the second structure for the second structure for the second the second structure for the second structure for the second structure the second structure for the second structure for the second structure the second structure for the second structure for the second structure the second structure for the second structure for the second structure the second structure for the second structure	Permit	#					,	www.lpcorp.cor APA: PR-L280,	n	-2403,	Clackame	s EWP Department
- DOMESTIC TO ALL SOL	its reserved by Louisiana Pa te 2000, Nashville, TN 37219					This	design is valid 1/2020		LADBS: RR-25			Building a w	A lengting on one.
Corp. 414 Union St Sui												Q 4 Pebu	attron not restrict
-P SolidS art Date		N.1.1 5) Po	wered by iStruc	ct™		10/3	1/2020						auton not

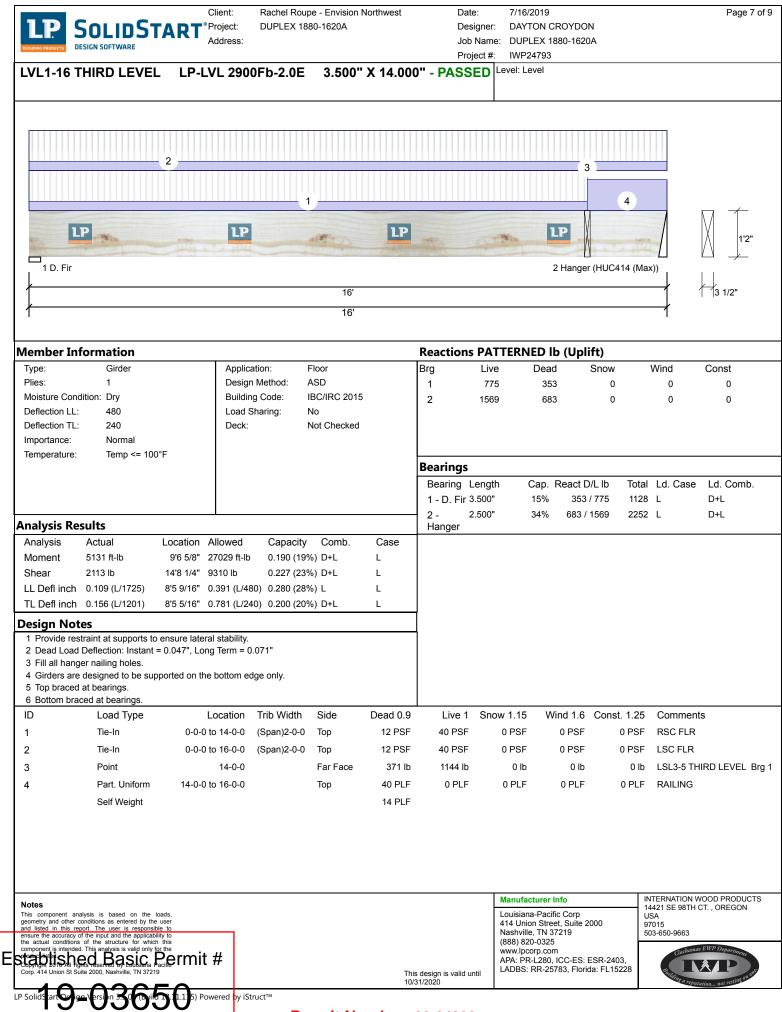
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	SOLIDS1 ESIGN SOFTWARE	ART	Client: Project: Address:	Rachel Roup DUPLEX 188	e - Envision N 80-1620A	lorthwest		Date: Designer: Job Name: Project #:	7/16/2019 DAYTON CR DUPLEX 188 IWP24793				Page 4 o
J2-8 TH	IIRD LEV	EL	LPI 56	14.(000" -	PASSE	D		evel: Level				
1 Hanger	r (IUS3.56/14 (Max))) 6'	1	2 D.	Fir H	2'	3 ••••••••••••••••••••••••••••••••••••						1'2"
1			8'				1						
Member Inf	ormation						Reacti	ons PAT	TERNED Ib	(Uplift)			
Type: Spacing: Moisture Cond Deflection LL: Deflection TL: Importance:	Joist 24" o.c. lition: Dry 480 360 Normal		Applicat Design Building Load Sh Deck:	Method: A J Code: II naring: N 2 I-	Floor ASD BC/IRC 2015 No 23/32 APA Rat FloorOSB Na		Brg 1 2	Live 238 (-19) 429	(-85)	Snow 0 (-100) 400	Wir	nd 0 0	Const 0 0
Temperature:	Temp <= 100)°F		G	Glued								
							1 - Hange	ng Length 2.000" er	9%	eact D/L lb -85 / 238	Total Lo 153 L_ (-185)	-	Ld. Comb. D+L
Analysis Res Analysis	sults Actual	Location	Allowed	Capacity	Comb.	Case	2 - D.	Fir 3.500"	37%	721 / 622	1343 LL		D+0.75(L+S)
Neg Moment Pos Moment Shear LL Defl inch	-1474 ft-lb 98 ft-lb 837 lb 0.006 (L/11776) 0.005	6' 1'5 11/16" 6' 2'11 3/4"	14088 ft-lb 12250 ft-lb 2680 lb 0.144 (L/480	0.105 (10% 0.008 (1%)	5) D+S D+L 5) D+0.75(L+S L	_L L_							
LL Cant	(L/14298) 0.014 (2L/3388)	Rt Cant	0.200 (2L/480)	0.071 (7%)	S	LL							
	0.014 (2L/3388) 0.036	Rt Cant Rt Cant	(2L/480)	0.071 (7%) 0.119 (12%		LL LL							
LL Cant TL Cant Design Note 1 Provide rest 2 Dead Load 3 Fill all hange 4 Tie-down cc _L).	0.014 (2L/3388) 0.036 (2L/1344) es traint at supports to Deflection: Instant er nailing holes.	Rt Cant ensure late = -0.001", Lo at bearing 1	(2L/480) 0.300 (2L/360) eral stability. ong Term = -0	0.119 (12%	5) D+S	LL							
LL Cant TL Cant Design Noto 1 Provide rest 2 Dead Load 3 Fill all hange 4 Tie-down cc _L). 5 Bottom flang 6 Web stiffene	0.014 (2L/3388) 0.036 (2L/1344) es traint at supports to Deflection: Instant er nailing holes. onnection required at ge braced at bearin ers required at Bearin	Rt Cant ensure late = -0.001", Lo at bearing 1 ngs.	(2L/480) 0.300 (2L/360) eral stability. ong Term = -0 1 for uplift 185	0.119 (12% 0.002" 5 lb (Combinat	io) D+S	LL d Case					·		
LL Cant TL Cant Design Note 1 Provide rest 2 Dead Load 3 Fill all hange 4 Tie-down co _L). 5 Bottom flang 6 Web stiffene	0.014 (2L/3388) 0.036 (2L/1344) es traint at supports to Deflection: Instant er nailing holes. onnection required at ge braced at bearin ers required at Bear Load Type	Rt Cant ensure late = -0.001", Lo at bearing 1 ngs.	(2L/480) 0.300 (2L/360) eral stability. ong Term = -0 1 for uplift 185 Location	0.119 (12% 0.002" 5 lb (Combinat Trib Width	ion D+S, Load	LL d Case Live			Wind 1.6 Cor		omments		
LL Cant TL Cant Design Not 1 Provide rest 2 Dead Load 3 Fill all hange 4 Tie-down co _L). 5 Bottom flang 6 Web stiffene 1 1 2	0.014 (2L/3388) 0.036 (2L/1344) es traint at supports to Deflection: Instant is er nailing holes. onnection required at ge braced at bearin ers required at bearin ers required at bearin Load Type Uniform Point Bearing Length	Rt Cant ensure late = -0.001", Lo at bearing 1 igs. ring 1.	(2L/480) 0.300 (2L/360) eral stability. ong Term = -0 1 for uplift 185 Location	0.119 (12% 0.002" 5 lb (Combinat	io) D+S	LL d Case Live 40 PS	F	v 1.15 0 PSF 0 PLF	Wind 1.6 Cor 0 PSF 0 PLF	nst. 1.25 Cr 0 PSF FL 0 PLF Gr	.R	-	
LL Cant TL Cant Design Note 1 Provide rest 2 Dead Load 3 Fill all hange 4 Tie-down cc _L). 5 Bottom flang 6 Web stiffene 1D	0.014 (2L/3388) 0.036 (2L/1344) es traint at supports to Deflection: Instant is er nailing holes. onnection required at ge braced at bearin ers required at bearin ers required at bearin Load Type Uniform Point Bearing Length	Rt Cant ensure late = -0.001", Lo at bearing 1 igs. ring 1.	(2L/480) 0.300 (2L/360) eral stability. ong Term = -0 1 for uplift 185 Location 7-10-4	0.119 (12% 0.002" 5 lb (Combinat Trib Width	ion D+S, Load Dead 0.9 12 PSF	LL d Case Live 40 PS	F	0 PSF 0 PLF	0 PSF 0 PLF	0 PSF FL 0 PLF G	.R ABLE WALL		
LL Cant TL Cant Design Note 1 Provide rest 2 Dead Load 3 Fill all hange 4 Tie-down co _L). 5 Bottom flang 6 Web stiffene ID 1 2 Continued on page Motes This component and generative according of the file according of	0.014 (2L/3388) 0.036 (2L/1344) es traint at supports to Deflection: Instant is er nailing holes. onnection required at ge braced at bearin ers required at bearin ers required at bearin Load Type Uniform Point Bearing Length	Rt Cant	(2L/480) 0.300 (2L/360) eral stability. ong Term = -0 1 for uplift 185 Location 7-10-4 0-1-8	0.119 (12% 0.002" 5 lb (Combinat Trib Width	ion D+S, Load Dead 0.9 12 PSF	LL d Case Live 40 PS	F	0 PSF 0 PLF	0 PSF	0 PSF FL 0 PLF G, 0 0 0 0 Corp Suite 2000	R ABLE WALL INTER 14421 USA 97015	RNATION W SE 98TH C 5 50-9663	OOD PRODUCTS T. , OREGON

	SOLIDSTART DESIGN SOFTWARE	Client: Project: Address:	Rachel Roupe DUPLEX 188	e - Envision Nort 0-1620A	hwest	Date: Designer Job Nam Project #	e: DUPLEX 1880-1620A		Page 5 of 9
J2-8	THIRD LEVEL	LPI 5	6 14.0	000" - PA	ASSED		Level: Level		
		1				3 			
	LP		LP						
1+	Hanger (IUS3.56/14 (Max))		2 D. I	Fir	01				
 	6'	8'			2'	\downarrow			13 1/2"
Continue ID 3	ed from page 1 Load Type Point Bearing Length	Location 7-10-4 0-1-8	Trib Width	Dead 0.9 102 PLF	Live 1 0 PLF	Snow 1.15 150 PLF	Wind 1.6 Const. 1.25 0 PLF 0 PLF	Comments ROOF	
							Manufact		
geometry and and listed in	nent analysis is based on the loads, d other conditions as entered by the user h this report. The user is responsible to couracy of the input and the applicability to						Manufacturer Info Louisiana-Pacific Corp 414 Union Street, Suite 2000 Nashville, TN 37219	1442 USA 9701	
the actual co	sonditions of the structure for which this intended. This analysis is valid only for the Sheed Basic Performance of the structure of solutions and solution ion st suite 2000, Nashville, TN 37219	it #			This des 10/31/20	ign is valid until 20	(888) 820-0325 www.lpcorp.com APA: PR-L238, ICC-ES: ESR LADBS: RR-25099, Florida: F		Clachamas EWP Department Religing a reputation not resting the
LP SolidStart	9 ····································	Powered by iS		mit Num					

	SOLIDSTA ESIGN SOFTWARE	ART	Client: Project: Address:		oupe - Envision N 1880-1620A	orthwest	Do	ate: esigner: bb Name: roject #:		CROYDON 1880-1620A			Page 6 d
LSL3-5 T	HIRD LEVEL	_ LP	-LSL 1	.55E	1.750" X ⁻	14.000"		-	evel: Level				
	2 3 4 5' 5'			D. Fir									1'2" 1'2"
Member Inf	formation						Reaction	ης ΡΔΤ	TERNED	lh (Unlift)		
Туре:	Girder		Applica	ation:	Floor		Brg	Live		-	now	Wind	Const
Plies:	1			Method:	ASD	I	1	1144			0	0	0
Moisture Cond	•			g Code:	IBC/IRC 2015	l	2	1120	36	64	0	0	0
Deflection LL:	480		Load S	haring:	No								
Deflection TL:	240		Deck:		Not Checked								
Importance:	Normal	-											
Temperature:	Temp <= 100°F	-					Bearings	5					
						1			Can	React D/L	lh Tota	I Ld. Case	Ld. Comb.
						ſ	Bearing 1 -	Length 2.500"	40%	371 / 11			La. Comb. D+L
							1 - Hanger	2.000	40%	5/1/11		JL	DTL
Analysis Re	sults						2 - D. Fir	- 3.500"	39%	364 / 11	20 1484	4 L	D+L
Analysis		Location	Allowed	Capaci	ty Comb.	Case							
Moment	1862 ft-lb		11037 ft-lb	-	17%) D+L	L							
Shear	979 lb	1'3 3/4"			15%) D+L	L							
	0.017 (L/3255)		0.116 (L/48			L							
	0.023 (L/2458)		0.231 (L/24			L							
I E Dell'Inen	, ,		0.201 (2.21	0) 0.100 (1	0,0, 0, 2, 2		l						
	00						Į						
Design Not		nouro loto					1						
1 Provide res 2 Dead Load 3 Fill all hang 4 Girders are 5 Top braced	traint at supports to e Deflection: Instant = (er nailing holes. designed to be support at bearings.	0.006", Lo	ong Term = 0.										
1 Provide res 2 Dead Load 3 Fill all hang 4 Girders are 5 Top braced	traint at supports to e Deflection: Instant = (er nailing holes. designed to be suppo	0.006", Lo	ong Term = 0.		n Side	Dead 0.9	Live	1 Snov	w 1.15 V	Vind 1.6 C	Const. 1.25	Commen	S
1 Provide res 2 Dead Load 3 Fill all hang 4 Girders are 5 Top braced 6 Bottom brac	traint at supports to e Deflection: Instant = (er nailing holes. designed to be support at bearings. ced at bearings.	0.006", Lo orted on th	ong Term = 0. he bottom ed	lge only.		Dead 0.9 12 PSF	Live ⁻ 40 PSI		w 1.15 V 0 PSF	Vind 1.6 C 0 PSF	Const. 1.25 0 PSF		S
1 Provide res 2 Dead Load 3 Fill all hang 4 Girders are 5 Top braced 6 Bottom brac 1D	traint at supports to e Deflection: Instant = (er nailing holes. designed to be support at bearings. ced at bearings. Load Type Tie-In	0.006", Lo orted on th	he bottom ed Location	lge only. Trib Width	0-0 Тор	12 PSF	40 PSI	F	0 PSF	0 PSF	0 PSF	LSC FLR	;s
1 Provide res 2 Dead Load 3 Fill all hang 4 Girders are 5 Top braced 6 Bottom brace ID	traint at supports to e Deflection: Instant = (er nailing holes. designed to be support at bearings. ced at bearings. Load Type Tie-In Point	0.006", Lo orted on th	he bottom ed Location -0 to 5-0-0 1-2-0	lge only. Trib Width				F				LSC FLR	s
1 Provide res 2 Dead Load 3 Fill all hang 4 Girders are 5 Top braced 6 Bottom brac 1D 1	traint at supports to e Deflection: Instant = 0 er nailing holes. designed to be support at bearings. ced at bearings. Load Type Tie-In Point Bearing Length	0.006", Lo orted on th	ng Term = 0. he bottom ed Location -0 to 5-0-0 1-2-0 0-3-0	lge only. Trib Width	0-0 Тор Тор	12 PSF 92 lb	40 PSI 288 II	F	0 PSF 0 lb	0 PSF 0 lb	0 PSF 0 lb	LSC FLR STR	's
1 Provide res 2 Dead Load 3 Fill all hang 4 Girders are 5 Top braced 6 Bottom brac 1D	traint at supports to e Deflection: Instant = (er nailing holes. designed to be support at bearings. ced at bearings. Load Type Tie-In Point Bearing Length Point	0.006", Lo orted on th	ng Term = 0. he bottom ed Location -0 to 5-0-0 1-2-0 0-3-0 2-4-0	lge only. Trib Width	0-0 Тор	12 PSF	40 PSI	F	0 PSF	0 PSF	0 PSF	LSC FLR STR	s
1 Provide res 2 Dead Load 3 Fill all hang 4 Girders are 5 Top braced 6 Bottom brace 1D 1 2 3	traint at supports to e Deflection: Instant = 0 er nailing holes. designed to be support at bearings. ced at bearings. Load Type Tie-In Point Bearing Length Point Bearing Length	0.006", Lo orted on th	ng Term = 0. he bottom ed Location -0 to 5-0-0 1-2-0 0-3-0 2-4-0 0-3-0	lge only. Trib Width	0-0 Тор Тор Тор	12 PSF 92 lb 92 lb	40 PSI 288 II 288 II	F b	0 PSF 0 lb 0 lb	0 PSF 0 lb 0 lb	0 PSF 0 lb 0 lb	STR STR	ïs
1 Provide res 2 Dead Load 3 Fill all hang 4 Girders are 5 Top braced 6 Bottom brac 1D 1	traint at supports to e Deflection: Instant = 0 er nailing holes. designed to be support at bearings. ced at bearings. Load Type Tie-In Point Bearing Length Point Bearing Length Point	0.006", Lo orted on th	ng Term = 0. he bottom ed Location -0 to 5-0-0 1-2-0 0-3-0 2-4-0 0-3-0 3-6-0	lge only. Trib Width	0-0 Тор Тор	12 PSF 92 lb	40 PSI 288 II	F b	0 PSF 0 lb	0 PSF 0 lb	0 PSF 0 lb	STR STR	is
1 Provide res 2 Dead Load 3 Fill all hang 4 Girders are 5 Top braced 6 Bottom brace 1D 1 2 3	traint at supports to e Deflection: Instant = 0 er nailing holes. designed to be support at bearings. ced at bearings. Load Type Tie-In Point Bearing Length Point Bearing Length Point Bearing Length	0.006", Lo orted on th	ng Term = 0. he bottom ed Location -0 to 5-0-0 1-2-0 0-3-0 2-4-0 0-3-0	lge only. Trib Width	0-0 Тор Тор Тор	12 PSF 92 lb 92 lb 92 lb	40 PSI 288 II 288 II	F b	0 PSF 0 lb 0 lb	0 PSF 0 lb 0 lb	0 PSF 0 lb 0 lb	STR STR	s
1 Provide res 2 Dead Load 3 Fill all hang 4 Girders are 5 Top braced 6 Bottom brace 1D 1 2 3	traint at supports to e Deflection: Instant = 0 er nailing holes. designed to be support at bearings. ced at bearings. Load Type Tie-In Point Bearing Length Point Bearing Length Point	0.006", Lo orted on th	ng Term = 0. he bottom ed Location -0 to 5-0-0 1-2-0 0-3-0 2-4-0 0-3-0 3-6-0	lge only. Trib Width	0-0 Тор Тор Тор	12 PSF 92 lb 92 lb	40 PSI 288 II 288 II	F b	0 PSF 0 lb 0 lb	0 PSF 0 lb 0 lb	0 PSF 0 lb 0 lb	STR STR	S
1 Provide res 2 Dead Load 3 Fill all hang 4 Girders are 5 Top braced 6 Bottom brac 1D 1 2 3 4	traint at supports to e Deflection: Instant = 0 er nailing holes. designed to be support at bearings. ced at bearings. Load Type Tie-In Point Bearing Length Point Bearing Length Point Bearing Length	0.006", Lo orted on th	ng Term = 0. he bottom ed Location -0 to 5-0-0 1-2-0 0-3-0 2-4-0 0-3-0 3-6-0	lge only. Trib Width	0-0 Тор Тор Тор	12 PSF 92 lb 92 lb 92 lb	40 PSI 288 II 288 II	F b b	0 PSF 0 lb 0 lb	0 PSF 0 lb 0 lb 0 lb	0 PSF 0 lb 0 lb	LSC FLR STR STR STR	VOOD PRODUCT
Provide res Dead Load Sill all hang Girders are Top braced Bottom brac ID I 2 3 4 Notes This component and	traint at supports to e Deflection: Instant = 0 er nailing holes. designed to be support at bearings. <u>ced at bearings.</u> Load Type Tie-In Point Bearing Length Point Bearing Length Self Weight	0.006", Lo orted on th 0-0-	ng Term = 0. he bottom ed Location -0 to 5-0-0 1-2-0 0-3-0 2-4-0 0-3-0 3-6-0	lge only. Trib Width	0-0 Тор Тор Тор	12 PSF 92 lb 92 lb 92 lb	40 PSI 288 II 288 II	F b b	0 PSF 0 lb 0 lb 0 lb Manufacturer Louisiana-Pac	0 PSF 0 lb 0 lb 0 lb <u>0 lb</u>	0 PSF 0 lb 0 lb	LSC FLR STR STR STR	VOOD PRODUCT
Provide res Dead Load Jead Load Fill all hang Girders are Top braced Bottom brac ID I 2 3 4 Notes This component and geometry and other o and listed in this ref	traint at supports to e Deflection: Instant = (er nailing holes. designed to be support at bearings. <u>ced at bearings.</u> Load Type Tie-In Point Bearing Length Point Bearing Length Point Bearing Length Self Weight	0.006", Lo orted on th 0-0-	ng Term = 0. he bottom ed Location -0 to 5-0-0 1-2-0 0-3-0 2-4-0 0-3-0 3-6-0	lge only. Trib Width	0-0 Тор Тор Тор	12 PSF 92 lb 92 lb 92 lb	40 PSI 288 II 288 II	F b b	0 PSF 0 lb 0 lb 0 lb 0 lb Manufacturer Louisiana-Pac	0 PSF 0 lb 0 lb 0 lb 10 lb	0 PSF 0 lb 0 lb	LSC FLR STR STR STR STR INTERNATION V 14421 SE 98TH USA USA 97015	VOOD PRODUCT:
Provide res Dead Load Jead Load Fill all hang Girders are Top braced Bottom brac ID I 2 3 4 Notes Notes ris component and geometry and other c and listed in this ref ensure the accordings	traint at supports to e Deflection: Instant = 0 er nailing holes. designed to be support at bearings. ced at bearings. Load Type Tie-In Point Bearing Length Point Bearing Length Point Bearing Length Self Weight	0.006", Lo orted on th 0-0-	ng Term = 0. he bottom ed Location -0 to 5-0-0 1-2-0 0-3-0 2-4-0 0-3-0 3-6-0 0-3-0	lge only. Trib Width	0-0 Тор Тор Тор	12 PSF 92 lb 92 lb 92 lb	40 PSI 288 II 288 II	F b b	0 PSF 0 lb 0 lb 0 lb 0 lb Manufacturer Louisiana-Pac 414 Union Strr Nashville, TN 3 (888) 820-032	0 PSF 0 lb 0 lb 0 lb 0 lb <u>10 lb</u> <u>10 lb</u> <u>10 lb</u> <u>10 corp</u> eet, Suite 2000 37219 5	0 PSF 0 lb 0 lb	LSC FLR STR STR STR STR STR INTERNATION V 14421 SE 98TH USA 97015 503-650-9663	VOOD PRODUCT. CT. , OREGON
Provide res Dead Load Jead Load Girders are Top braced Bottom brac ID I 2 3 4 Notes This component and geometry and other and listed in this rep or the actual conditions Somoonet and and listed in this rep	traint at supports to e Deflection: Instant = (er nailing holes. designed to be support at bearings. ced at bearings. Load Type Tie-In Point Bearing Length Point Bearing Length Point Bearing Length Self Weight	0.006", Lo orted on th 0-0-	ng Term = 0. he bottom ed Location -0 to 5-0-0 1-2-0 0-3-0 2-4-0 0-3-0 3-6-0 0-3-0	lge only. Trib Width	0-0 Тор Тор Тор	12 PSF 92 lb 92 lb 92 lb 8 PLF	40 PSI 288 II 288 II	F b b	0 PSF 0 lb 0 lb 0 lb 0 lb Manufacturer Louisiana-Pac 414 Union Stra Nashville, TN :	0 PSF 0 lb 0 lb 0 lb 0 lb 1fic Corp set, Suite 2000 37219 5 m , ICC-ES: ESF	0 PSF 0 lb 0 lb	LSC FLR STR STR STR STR STR INTERNATION V 14421 SE 98TH USA 97015 503-650-9663	VOOD PRODUCT:



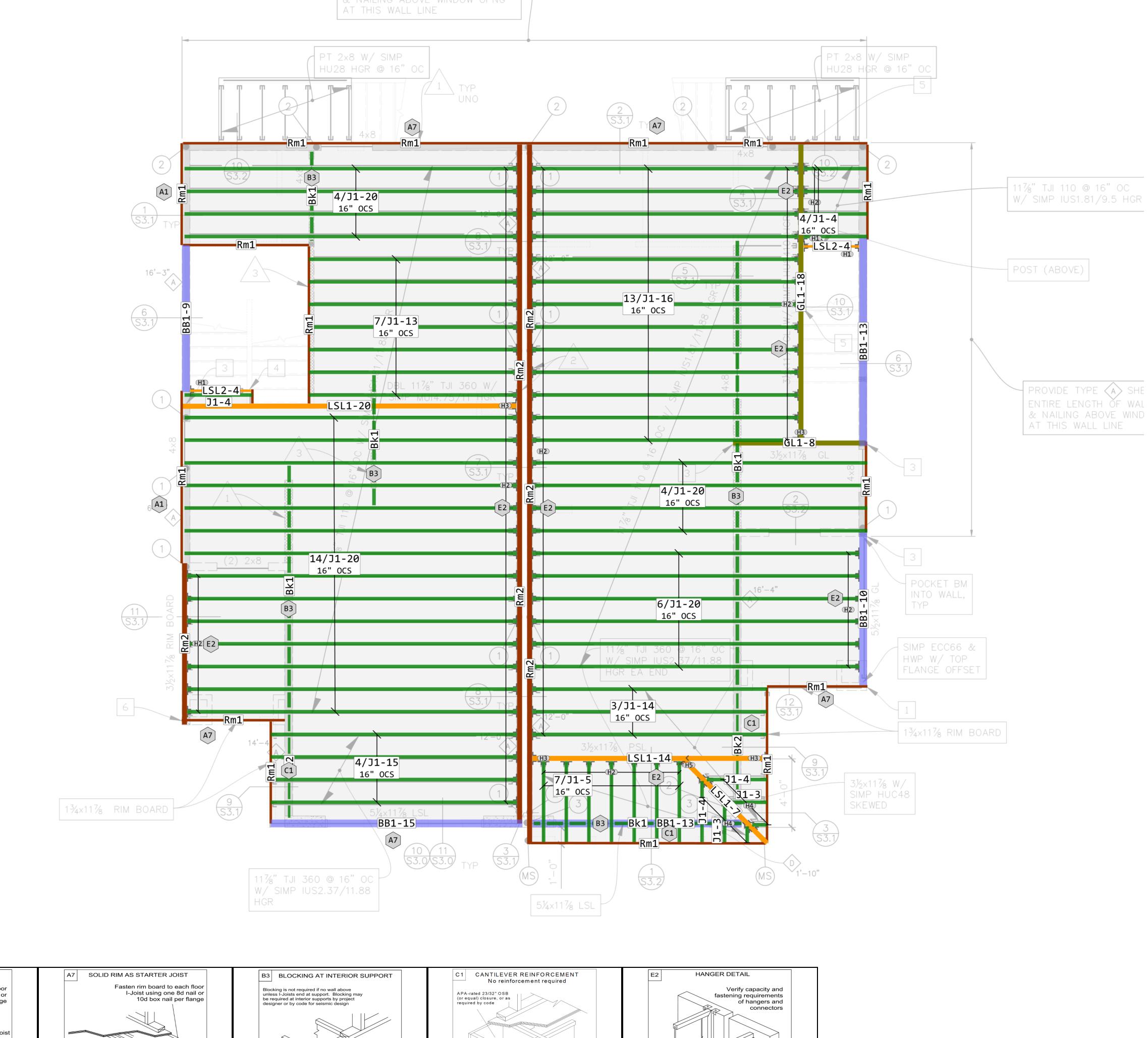
	SOLIDST ESIGN SOFTWARE	'ART			oupe - Envision N 1880-1620A	orthwest	Job	igner: D Name: D	/16/2019 AYTON CI UPLEX 18				Page 8
LVL1-10 T	HIRD LEVEL	. LP-L	.VL 2900F	b-2.0	E 3.500"	X 14.000			NP24793				
	1			2					3				
	LP				P			LP					
1 Hange	r (HHUS410)			10'				2 D.	Fir				3 1/2"
				10					I				
Member In	formation						Reactions	PATTE	RNED Ik	-			
Type: Plies: Moisture Cond Deflection LL: Deflection TL:	480		Applicatio Design M Building Load Sha Deck:	lethod: Code:	Floor ASD IBC/IRC 2015 No Not Checked		Brg 1 2	Live 1593 3176	Dead 747 1436		w 0 0	Wind 0 0	Const 0 0
Importance: Temperature:	Normal Temp <= 100	°F					Bearings						
							Bearing L 1 - 3 Hanger	ength 8.000"	Cap. I 30%	React D/L lb 747 / 1593		I Ld. Case	E Ld. Comb. D+L
Analysis Re							2 - D. Fir 3	8.500"	60%	1436 / 3176	6 461 ⁻	1 L	D+L
	Actual 5396 ft-lb 1704 lb 0.047 (L/2469)	1'4 1/4" 4'11 3/4"	27029 ft-lb 9310 lb 0.240 (L/480)	0.183 (1 0.190 (1	20%) D+L 18%) D+L 19%) L	Case L L L							
	0.068 (L/1681)	4.11 3/4.	0.479 (L/240)	0.140 (1	14%) D+L	L	1						
 2 Dead Load 3 Fill all hang 4 Girders are 5 Top braced 6 Bottom braced 	straint at supports to Deflection: Instant = ler nailing holes. designed to be sup at bearings. ced at bearings.	= 0.022", Lo ported on th	ng Term = 0.03 ne bottom edge	e only.	Dida.	Dect 2.2			46 14"		not 1.05		
ID 1	Load Type Tie-In		Location T to 10-0-0 (\$	rib Width Span)16-(Dead 0.9 12 PSF	Live 1 40 PSF	Snow 1. 0 P		nd 1.6 Co 0 PSF	0 PSF		
1 2	Uniform	0-0-0	νιο το-ο-ο (3	5paii)10-l	л-о тор Тор	40 PLF	40 PSF 0 PLF		SF PLF	0 PSF 0 PLF		RAILING	
3	Point		9-10-0		Far Face	683 lb	1569 lb) lb	0 lb			THIRD LEVEL
	Self Weight					14 PLF						٢	
geometry and other of	alysis is based on the li conditions as entered by the port. The user is responsible	user le to						Loui 414	ufacturer l i siana-Pacifi Union Stree hville, TN 37	c Corp t, Suite 2000			WOOD PRODUCT
and listed in this re	of the input and the applicabil	ity to							3) 820-0325			200 000-0000	

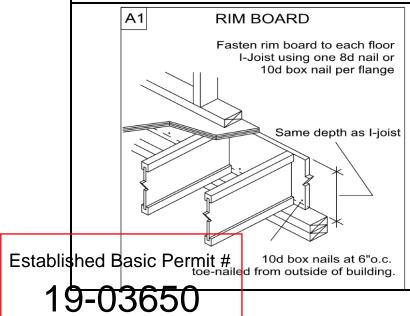
BUILDING PRODUCTS	SOLIDS ESIGN SOFTWARE	TART [°]	Client: Project: Address:	DUPLEX 18			Job	igner: DAN Name: DUI ect #: IWF	5/2019 /TON CR/ PLEX 188 224793 _evel				Page 9
			VL 2900	JFJ-2.0E	3.500	A 14.00	J - FA33						
		2											
									_ 3				
										4			π \pm
LP	1	LP			LP	1 ar	LP	a ritte	X	LP		i san	1'2"
1 Hanger (HHUS410)										2 D. F	ir	
					20'								3 1/2"
1					20'							1	
/lember Inf	ormation						Reactions	PATTER	NFD Ib	(Unlift)			
Туре:	Girder		Applica		Floor		Brg	Live	Dead	Sno	w	Wind	Const
Plies: Moisture Cond	1 lition: Dr/		-		ASD IBC/IRC 2015		1	1368	665		0	0	0
Deflection LL:	480			-	NO		2	3248	1803		0	0	0
Deflection TL:	240		Deck:	•	Not Checked								
Importance:	Normal												
Temperature:	Temp <= 10)0°F					Bearings						
							Bearing L	enath	Can R	eact D/L lb) Tota	Ld. Case	e Ld. Comb.
							-	6.000"	26%	665 / 1368			D+L
	- 14-						Hanger						
		Location -	Allowed	Can!!	Comt	Casa	2 - D. Fir 5	5.500"	42%	1803 / 3248	3 505 ⁻	1 L	D+L
Analysis Moment	Actual 17047 ft-lb	Location	Allowed 27029 ft-lb	Capacity 0.631 (639		Case L							
Shear	4822 lb	18'5 1/4"		0.518 (52		L							
	0.458 (L/509)			0.940 (949	,	- L							
TL Defl inch	0.683 (L/341)	10'10"	0.971 (L/24	0) 0.700 (709	%) D+L	L							
Design Not	es						1						
1 Provide rest	traint at supports t			220"]						
	Deflection: Instan er nailing holes.	ι – υ.220°, LOΓ	ig ienn = 0	.008									
4 Girders are	designed to be su	upported on the	e bottom ea	lge only.									
5 Top braced 6 Bottom brac	at bearings. ced at bearings.												
ID	Load Type		Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	5 Win	d 1.6 Co	nst. 1.25	Comme	nts
1	Tie-In	0-0-0	to 16-0-0	(Span)2-0-0	Тор	12 PSF	40 PSF	0 PSF	- () PSF	0 PSF	RSC FLF	र
2	Tie-In	0-0-0	to 20-0-0	(Span)2-0-0	Тор	12 PSF	40 PSF	0 PSF	- () PSF	0 PSF	LSC FLR	R
3	Point		16-0-0		Far Face	1436 lb	3176 lb	O It)	0 lb	0 lb		THIRD LEVEL
4	Part. Uniform	16-0-0	to 20-0-0		Тор	80 PLF	0 PLF	0 PLF	= (0 PLF	0 PLF	2 WALL	
-	Self Weight	10-0-0			10P	14 PLF			,		VILL	• • • • • •	
	Con Weight					171 60							
Notes									acturer Inf				WOOD PRODUCT
geometry and other co	alysis is based on the onditions as entered by the	he user						414 Ur		Suite 2000	l	JSA 97015	
ensure the accuracy of the actual conditions	ort. The user is response f the input and the application of the structure for white	ability to ich this						Nashvi	lle, TN 372 20-0325			503-650-9663	
component is intended	This analysis is valid only	Permit	#					www.lp	corp.com	C-ES: ESR-	2403,	Clackar	mas EWP Department
tablishe													
component is intended	nts reserved by Louisiana ite 2000, Nashville, TN 372	Pacific 219	"				s design is valid ui 31/2020			3, Florida: Fl		Building	A Long Oth Oth

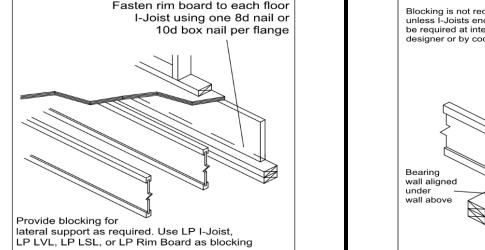
Fracking #		ain House (or right click	Itemized List (Q/L)	
	to rename)			BUILDING PR
-	•	- Envision Northwest	Report Time 7/16/2019 3:35 PM	
Estimator	Dayton Croydo	on	Arch. Date n/a Struct. Date n/a	
Line #	Quantity	Product Description		Product Application
		MAIN LEVEL FRAMING	6 Materials	
1	60	5-7/16"x11-7/8" Rosbo	pro BigBeam	Beam
1		1/15 2/13 1/10 1/9	0	Qty/Length
2	41	3-1/2"x11-7/8" SolidSt	art LSL	Beam
2		1/20 1/14 1/7		Qty/Length
3	26	3-1/2"x11-7/8" Rosboi	o X-Beam	Beam
3	_0	1/18 1/8		Qty/Length
4	8	1-3/4"x11-7/8" SolidSt	art LSL	Beam
4	0	2/4	-	Qty/Length
5	1.032	2-1/2"x11-7/8" LPI 18		Floor Joist
5	1,002		/14 7/13 7/5 7/4 2/3 2/1	Qty/Length
6	57	2-1/2"x11-7/8" R/L LPI		Floor Joist Blocking
7		1-3/4"x11-7/8" R/L So		Floor Joist Blocking
8		3-1/2"x11-7/8" R/L So		Rim
9		1-3/4"x11-7/8" R/L So		Rim
10		23/32"x4'x8'		Floor Decking
11	4	HHUS410 Simpson Stre	ong Tie	Hanger
12	3	HU11 Simpson Strong	-	Hanger
13	1	HUC48SKR45 Simpson		Hanger
19		IUS2.56/11.88 Simpson	-	Hanger
15	6	LSSUH310 Simpson Str	-	Hanger
16	-	Construction Adhesive	-	Adhesive
		UPPER LEVEL FRAMIN	G Materials	
17	86	3-1/2"x14" SolidStart I	VL	Beam
17		3/20 1/16 1/10		Qty/Length
18	24	3-1/2"x14" Rosboro X-	Beam	Beam
18		1/14 1/10		Qty/Length
19	18	1-3/4"x14" SolidStart I	SL	Beam
19		1/8 2/5		Qty/Length
20	651	3-1/2"x14" LPI 56		Floor Joist
20		17/20 4/16 3/15 7/1	4 4/13 2/10 4/8	Qty/Length
21	10	1-3/4"x14" R/L SolidSt		Floor Joist Blocking
22	86	3-1/2"x14" R/L SolidSt		Rim
23	147	1-3/4"x14" R/L SolidSt		Rim
24	50	23/32"x4'x8'		Floor Decking
25	5	HHUS410 Simpson Stre	ong Tie	Hanger
26	3	HU14 Simpson Strong	-	Hanger
27	1	HUC414 Simpson Stroi		Hanger
28	49	IUS3.56/14 Simpson St	-	Hanger
29	18	Construction Adhesive	-	Adhesive

Established Basic Permit #

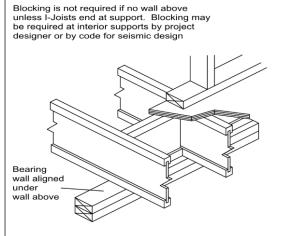


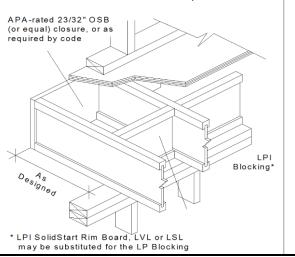


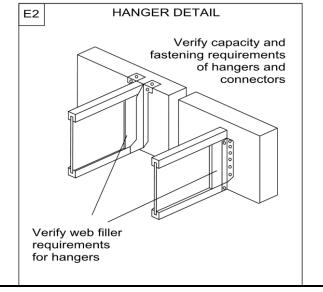




Provide blocking for



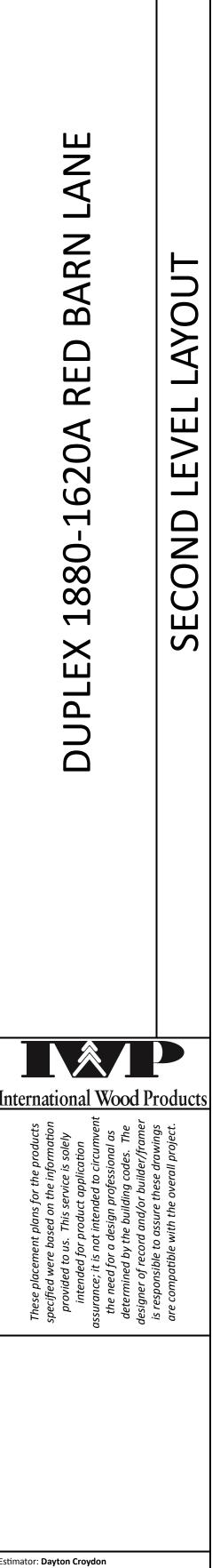




Permit Number: 20-04898

т.		0.	Draduct	Lan
	ag		Product	Len
-1	oor Joi			
	J1	28	2-1/2"x11-7/8" LPI 18	20'
	J1		2-1/2"x11-7/8" LPI 18	16'
	J1		2-1/2"x11-7/8" LPI 18	15'
	J1		2-1/2"x11-7/8" LPI 18	14'
	J1		2-1/2"x11-7/8" LPI 18	13'
	J1		2-1/2"x11-7/8" LPI 18	5'
	J1		2-1/2"x11-7/8" LPI 18	4'
	J1		2-1/2"x11-7/8" LPI 18	3'
	J1		2-1/2"x11-7/8" LPI 18	1'
FI		ist Bloc	king	
	Bk1	57	2-1/2"x11-7/8" LPI 18	R/L
	Bk2	12	1-3/4"x11-7/8" SolidStart LSL	R/L
B	eam			
	LSL2	2	1-3/4"x11-7/8" SolidStart LSL	4'
B	eam			
	BB1		5-7/16"x11-7/8" Rosboro BigBeam	15'
	BB1		5-7/16"x11-7/8" Rosboro BigBeam	13'
	BB1	1	5-7/16"x11-7/8" Rosboro BigBeam	10'
	BB1	1	5-7/16"x11-7/8" Rosboro BigBeam	9'
B	eam			
	LSL1	1	3-1/2"x11-7/8" SolidStart LSL	20'
	LSL1	1	3-1/2"x11-7/8" SolidStart LSL	14'
	LSL1	1	3-1/2"x11-7/8" SolidStart LSL	7'
B	eam			
	GL1	1	3-1/2"x11-7/8" Rosboro X-Beam	18'
	GL1	1	3-1/2"x11-7/8" Rosboro X-Beam	8'
Ri	im			
	Rm1	130	1-3/4"x11-7/8" SolidStart LSL	R/L
	Rm2		3-1/2"x11-7/8" SolidStart LSL	R/L
Ha	anger			
	H1	3	HU11 Simpson Strong Tie	
	H2		IUS2.56/11.88 Simpson Strong Tie	
	H3		HHUS410 Simpson Strong Tie	
	H4		LSSUH310 Simpson Strong Tie	
	H5	1	HUC48SKR45 Simpson Strong Tie	
FI	oor De		inderteentie oninpaon onong he	
-			23/32"x4'x8'	



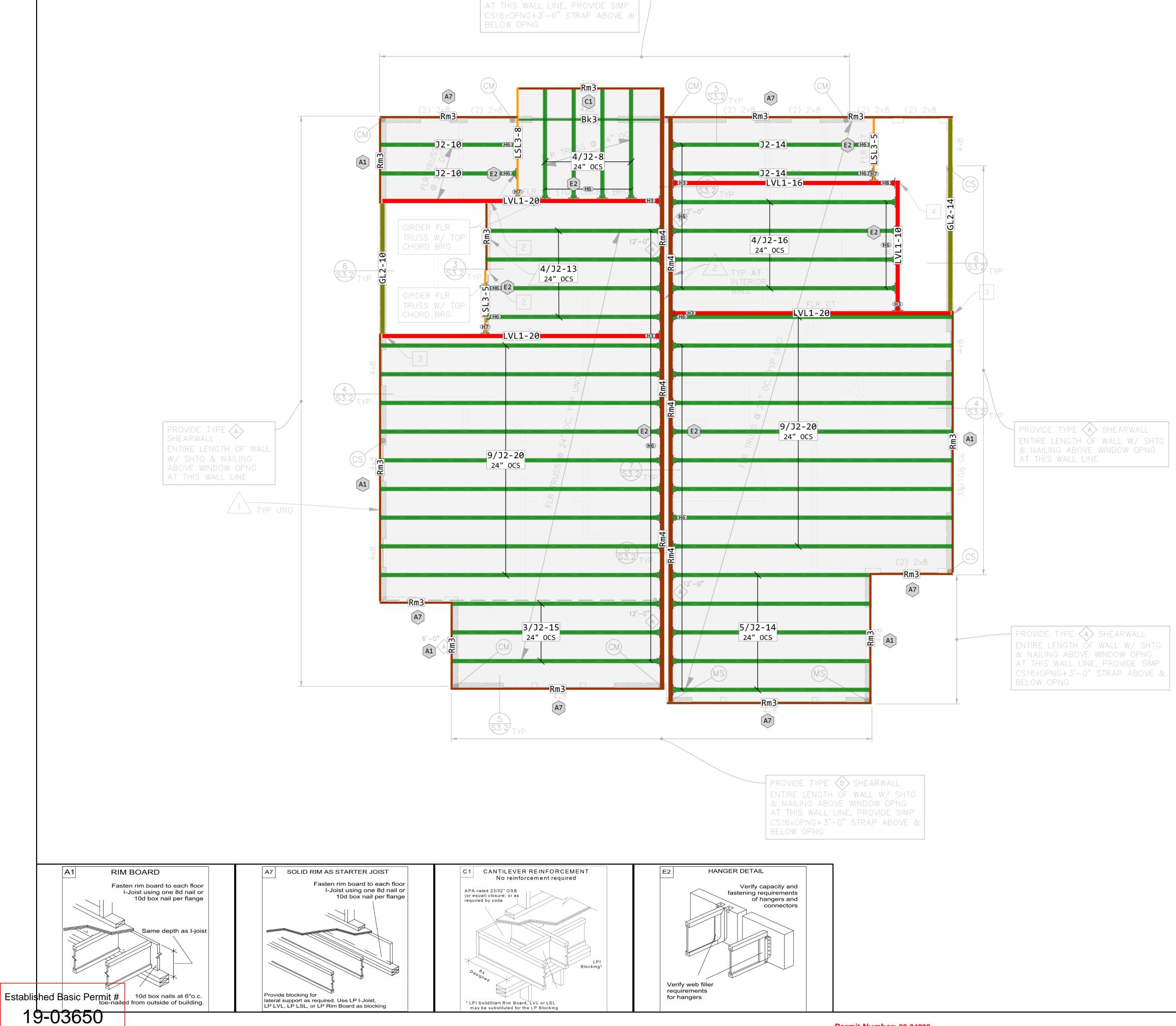


0			
J	1		2-1/2"x11-7/8" LPI 18
J	1	4	2-1/2"x11-7/8" LPI 18
J	1	3	2-1/2"x11-7/8" LPI 18
J	1	7	2-1/2"x11-7/8" LPI 18
J	1	7	2-1/2"x11-7/8" LPI 18
J	1	7	2-1/2"x11-7/8" LPI 18
J	1	2	2-1/2"x11-7/8" LPI 18
J	1	2	2-1/2"x11-7/8" LPI 18
Floor	Joi	st Bloc	
B	< 1	57	2-1/2"x11-7/8" LPI 18
Bł		12	1-3/4"x11-7/8" SolidStart LSL
Beam	1		
LS	L2	2	1-3/4"x11-7/8" SolidStart LSL
Beam	1		
BE	31	1	5-7/16"x11-7/8" Rosboro BigBeam
BE	31	2	5-7/16"x11-7/8" Rosboro BigBeam
BE	31		5-7/16"x11-7/8" Rosboro BigBeam
BE	31	1	5-7/16"x11-7/8" Rosboro BigBeam
Beam	1		
LS		1	3-1/2"x11-7/8" SolidStart LSL
LS			3-1/2"x11-7/8" SolidStart LSL
LS	L1	1	3-1/2"x11-7/8" SolidStart LSL
Beam	1		
Gl	L1		3-1/2"x11-7/8" Rosboro X-Beam
GI	L1	1	3-1/2"x11-7/8" Rosboro X-Beam
Rim			
Rr	n1		1-3/4"x11-7/8" SolidStart LSL
Rr	n2	94	3-1/2"x11-7/8" SolidStart LSL
Hang	er		
H			HU11 Simpson Strong Tie
	2		IUS2.56/11.88 Simpson Strong Tie
	3		HHUS410 Simpson Strong Tie
Н	4		LSSUH310 Simpson Strong Tie
	5		HUC48SKR45 Simpson Strong Tie
Floor	Dee	cking	

-	PROVIDE TYPE 💫 SHE
	entire length of wal
	& NAILING ABOVE WIND
	AT THIS WALL LINE
L	

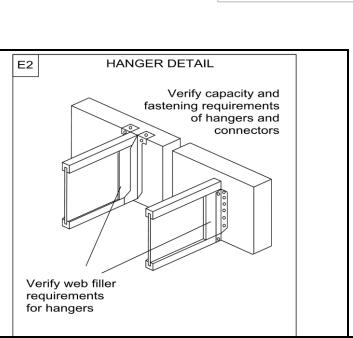
racking: IWP24793

Sheet 1 of 1



provide type 🚯 shearwall





<u>plan nc</u>

1.			
2.			
3.			

Tog	Qtv Product	Lon
Tag Floor Jois		Len
J2	17 3-1/2"x14" LPI 56	20'
J2 J2	4 3-1/2 x 14" LPI 56	16'
J2	3 3-1/2 x14 LPI 56	15
J2 J2		15
	7 3-1/2"x14" LPI 56	
J2	4 3-1/2"x14" LPI 56	13'
J2	2 3-1/2"x14" LPI 56	10'
J2	4 3-1/2"x14" LPI 56	8'
	t Blocking	
Bk3	10 1-3/4"x14" SolidStart LSL	R/L
Beam		
GL2	1 3-1/2"x14" Rosboro X-Beam	14'
GL2	1 3-1/2"x14" Rosboro X-Beam	10'
Beam		
LSL3	1 1-3/4"x14" SolidStart LSL	8'
LSL3	2 1-3/4"x14" SolidStart LSL	5'
Beam		
LVL1	3 3-1/2"x14" SolidStart LVL	20'
LVL1	1 3-1/2"x14" SolidStart LVL	16'
LVL1	1 3-1/2"x14" SolidStart LVL	10'
Rim		
Rm3	147 1-3/4"x14" SolidStart LSL	R/L
Rm4	86 3-1/2"x14" SolidStart LVL	R/L
Hanger	· · · ·	
H3	5 HHUS410 Simpson Strong Tie	
H6	49 IUS3.56/14 Simpson Strong Tie	
H7	3 HU14 Simpson Strong Tie	
H8	1 HUC414 Simpson Strong Tie	
Floor Dec		
	50 23/32"x4'x8'	



ш LAN **RED BARN** LAYOUT LEVEL -1620A THIRD 1880-EX DUPI **I**[®]/P International Wood Products nt ba. J.S.

Estimator: Dayton Croydon racking: IWP24793