Project: federal street Location: RFT4 Roof Rafter/joists Roof Rafter				Lindsey Architects Lindsey Architects 4 Market Place Drive Suite 201B	
[2012 International Building Code(2012 NDS)]				York Maine 03909	
SERIES AJS 25 / 11. Section Adequate By Controlling Factor: Er	: 53.6%	e x 22.0 FT @ 12 C	D.C.	StruCalc Version 9.0.2.6 10/15/2016 11:02:57 PM	
DEFLECTIONS Center Live Load 0.55 IN L/479 Dead Load 0.17 in				LOADING DIAGRAM	
	2 IN L/369	otal Load Deflectior	n Criteria: L/180		
RAFTER REACTIO	<u>NS</u> LOADS	REACTIONS			
Upper Live Load @ Upper Dead Load @ Upper Total Load @ Lower Live Load @ Lower Dead Load @ Lower Total Load @	A 550 plf 2 A 165 plf 2 A 715 plf B 550 plf 2 B 165 plf	550 lb 165 lb 715 lb 550 lb 165 lb 715 lb	2		
	•			A 22 ft B	
Bearing Length	<u>A</u> 1.75 in	-			
Web Stiffeners	No	No		RAFTER LOADING Uniform Roof Loading	
RAFTER DATAInteriorSpan Length22ftRafter Pitch0:12				Roof Live Load: LL = 50 psf Roof Dead Load: DL = 15 psf Slope Adjusted Spans And Loads	
Roof sheathing applied to top of joists-top of rafters fully braced. Sheathing/sheetrock applied to bottom of joists-bottom of rafters fully braced. Roof Duration Factor 1.15				Interior Span:L-adj =22ftEave Span:L-Eave-adj =0ftRafter Live Load:wL-adj =50plf	
I-JOIST PROPERTIES SERIES AJS 25 / 11.875 - Boise Cascade Base Values Adjusted				Eave Live Load:wL ag =so pinEave Live Load:wL-Eave-adj =50 plfRafter Dead Load:wD-adj =15 plfRafter Total Load:wT-adj =65 plf	
Moment Cap:	Mcap = 6960 Cd = 1.15		8004 ft-lb	Eave Total Load: wT-Eave-adj = 65 plf	
Shear Stress:	Vcap = 1.15 Vcd = 1.15	lb Vcap' =	1714 lb		
End Reaction:	Rcap = 955 <i>Cd</i> = 1.15	lb Rcap' =	1098 lb		
w/ web stiffeners:	RcapWS = 1335 <i>Cd</i> = 1.15	lb RcapWS'	= 1535 lb		
Interior Reaction:	Rcap = 2690 Cd = 1.15	lb IRcap' =	3094 lb		
w/ web stiffeners:	RcapWS = 3190 Cd = 1.15	lb IRcapWS	'= 3669 lb		
E.I.:	EI = 519	lb-in2 El' =	519 lb-in2		
Created by combin Controlling Shear: At left support of sp	pport of span 3 (Rigl ing all dead loads ar	nd live loads on spa			
Comparisons with	required sections:	Req'd	Provided		
E.I.: Moment: Shear:		260 in2-lb E6 3933 ft-lb 715 lb	519 in2-lb xE6 8004 ft-lb 1714 lb		
0.1001.		11010			