CITY OF PORTLAND, MAINE
RESURGAM
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 09/20/16

Post & Columns

Wood Column Design Analysis -

Douglas Fir-Larch, #2 2x4 Height: 9 feet 0 inches

		Cf	CM	CD	Ct	Cx	Adjusted
Fc//	1300	1.15	1	1	1	1	1495
E	1600000		1	1	1	1	1600000

Allowable Load: 2428 Pounds < P_{BR}= 625x1.5x3.5= 3281#

Douglas Fir-Larch, #2 2x6 Height: 9 feet 0 inches

		Cf	CM	CD	Ct	Cx	Adjusted
Fc//	1300	1.1	1	1	1	1	1430
E	1600000		1	1	1	1	1600000

Allowable Load: 7565 Pounds > P_{BR}= 5156#

Douglas Fir-Larch, #2 4x4 Height: 9 feet 0 inches

		Cf.	CM	CD	Ct	Cx	Adjusted
Fc//	1300	1.15	1	1	1	1	1495
E	1600000		1	1	1	1	1600000

Allowable Load: 5667 Pounds < P_{BR}= 7656#

Douglas Fir-Larch, #2 4x6 Height: 9 feet 0 inches

		Cf	CM	CD	Ct	Cx	Adjusted
Fc//	1300	1.1	1	1	1	1	1430
E	1600000		1	1	1	1	1600000

Allowable Load: 8662 Pounds < P_{BR}= 12031#

Douglas Fir-Larch, #2 6x6 Height: 9 feet 0 inches

		Cf	CM	CD	Ct	Cx	Adjusted
Fc//	1300	1	1	1	1	1	1000
E	1600000		1	1	1	1	1600000

Allowable Load: 23014 Pounds > P_{BR}= 18906#