Date: 05/30/13

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

CITY OF PORTLAND, MAINE · RESURGAM

t Spans—Dead Load=10 PSF/Live Load=40 PSF

DIETRICH

			SINGLE SPAN SPACING O.C.			TWO EQUAL SPANS SPACING O.C.		
			16	24		12	16	24
			ft. - in.	ft. - in.		ft. - in.	ft. - in.	ft. - in.
			7 - 8	6 - 3		8 - 8	7 - 5	6 - 0
			7 - 11	6 - 6		8 - 11	7 - 8	6 - 2
			8 - 2	6 - 8		9 - 3	8 - 0	6 - 5
			8 - 4	7 - 3		9 - 10	9 - 0	7 - 5
			8 - 10	7 - 8		10 - 5	9 - 4	7 - 6
3-5/8	CSE	18	10 - 3	9 - 3	7 - 11	10 - 11	9 - 7	7 - 9
	CSJ	16	9 - 10	8 - 11	7 - 10	10 - 7	9 - 7	8 - 5
	CSW	16	10 - 5	9 - 5	8 - 3	11 - 2	10 - 2	8 - 10
	CSE	16	10 - 9	9 - 10	8 - 7	11 - 7	10 - 6	9 - 2
	CSJ	14	10 - 6	9 - 7	8 - 4	11 - 3	10 - 3	9 - 0
	CSW	14	11 - 2	10 - 1	8 - 10	11 - 11	10 - 10	9 - 6
	CSE	14	11 - 9	10 - 8	9 - 4	12 - 7	11 - 5	10 - 0
	CSJ	12	11 - 8	10 - 7	9 - 3	12 - 6	11 - 4	9 - 11
	CSW	12	12 - 4	11 - 3	9 - 10	13 - 3	12 - 0	10 - 6
	CSE	12	13 - 1	11 - 10	10 - 4	14 - 0	12 - 9	11 - 2
4	CSJ	20	9 - 2	8 - 2	6 - 8	9 - 2	7 - 10	6 - 4
	CSW	20	9 - 7	8 - 5	6 - 11	9 - 6	8 - 2	6 - 6
	CSE	20	9 - 11	8 - 9	7 - 2	9 - 10	8 - 5	6 - 9
	CSJ	18	9 - 11	9 - 0	7 - 10	10 - 8	9 - 8	7 - 10
	CSW	18	10 - 6	9 - 6	8 - 2	11 - 3	9 - 11	8 - 0
	CSE	18	11 - 0	10 - 0	8 - 5	11 - 9	10 - 2	8 - 3
	CSJ	16	10 - 8	9 - 8	8 - 5	11 - 5	10 - 4	9 - 1
	CSW	16	11 - 3	10 - 2	8 - 11	12 - 0	10 - 11	9 - 7
	CSE	16	11 - 7	10 - 7	9 - 3	12 - 6	11 - 4	9 - 11
	CSJ	14	11 - 4	10 - 4	9 - 0	12 - 2	11 - 1	9 - 8
	CSW	14	12 - 0	10 - 11	9 - 6	12 - 11	11 - 9	10 - 3
	CSE	14	12 - 8	11 - 6	10 - 0	13 - 7	12 - 4	10 - 9
	CSJ	12	12 - 7	11 - 5	10 - 0	13 - 6	12 - 3	10 - 9
	CSW	12	13 - 4	12 - 1	10 - 7	14 - 4	13 - 0	11 - 4
	CSE	12	14 - 1	12 - 10	11 - 2	15 - 1	13 - 9	12 - 0
6	CSJ	20	12 - 5	10 - 9	8 - 9	11 - 2	9 - 4	7 - 2
	CSW	20	12 - 8	11 - 0	9 - 0	11 - 4	9 - 6	7 - 3
	CSE	20	12 - 11	11 - 3	9 - 2	11 - 7	9 - 8	7 - 4
	CSS	20	12 - 11	11 - 2	9 - 2	11 - 6	9 - 7	7 - 4
	CSX	20	13 - 1	11 - 4	9 - 3	11 - 8	9 - 9	7 - 4
	CSJ	18	13 - 8	12 - 5	10 - 7	14 - 6	12 - 5	9 - 11
	CSW	18	14 - 4	13 - 0	10 - 9	14 - 8	12 - 7	10 - 1
	CSE	18	15 - 0	13 - 6	11 - 0	15 - 0	12 - 11	10 - 3
	CSS	18	15 - 6	14 - 0	11 - 6	15 - 7	13 - 4	10 - 8
	CSX	18	15 - 11	14 - 4	11 - 9	16 - 0	13 - 8	10 - 10
	CSJ	16	14 - 7	13 - 3	11 - 7	15 - 8	14 - 3	12 - 5
	CSW	16	15 - 4	14 - 0	12 - 2	16 - 6	15 - 0	13 - 1
	CSE	16	15 - 10	14 - 5	12 - 7	17 - 0	15 - 5	13 - 6
	CSS	16	16 - 9	15 - 3	13 - 4	18 - 0	16 - 4	14 - 3
	CSX	16	17 - 2	15 - 7	13 - 8	18 - 5	16 - 9	14 - 8
	CSJ	14	15 - 8	14 - 3	12 - 5	16 - 10	15 - 3	13 - 4
	CSW	14	16 - 6	15 - 0	13 - 1	17 - 8	16 - 1	14 - 0
	CSE	14	17 - 3	15 - 8	13 - 8	18 - 6	16 - 9	14 - 8
	CSS	14	18 - 3	16 - 7	14 - 6	19 - 7	17 - 10	15 - 7

MEMBER			SINGLE SPAN SPACING O.C.			TWO EQUAL SPANS SPACING O.C.		
SIZE (in.)	CODE	GAGE	12	16	24	12	16	24
			ft. - in.	ft. - in.	ft. - in.	ft. - in.	ft. - in.	ft. - in.
6	CSX	14	18 - 9	17 - 1	14 - 11	20 - 2	18 - 4	16 - 0
	CSJ	12	17 - 5	15 - 10	13 - 10	18 - 8	17 - 0	14 - 10
	CSW	12	18 - 4	16 - 8	14 - 7	19 - 8	17 - 11	15 - 7
	CSE	12	19 - 3	17 - 6	15 - 3	20 - 8	18 - 9	16 - 5
	CSS	12	20 - 5	18 - 7	16 - 2	21 - 11	19 - 11	17 - 5
	CSX	12	21 - 2	19 - 3	16 - 9	22 - 8	20 - 7	18 - 0
	CSJ	10	18 - 6	16 - 9	14 - 8	19 - 10	18 - 0	15 - 9
	CSW	10	19 - 6	17 - 8	15 - 6	20 - 11	19 - 0	16 - 7
	CSE	10	20 - 5	18 - 7	16 - 3	21 - 11	19 - 11	17 - 5
	CSS	10	21 - 8	19 - 9	17 - 3	23 - 3	21 - 2	18 - 6
	CSX	10	22 - 6	20 - 5	17 - 10	24 - 2	21 - 11	19 - 2
8	CSJ	18	17 - 2	15 - 7	12 - 11	16 - 10	14 - 2	11 - 0
	CSW	18	18 - 0	16 - 0	13 - 1	16 - 11	14 - 3	11 - 0
	CSE	18	18 - 7	16 - 1	13 - 2	17 - 1	14 - 4	11 - 1
	CSS	18	19 - 2	16 - 7	13 - 7	17 - 6	14 - 8	11 - 4
	CSX	18	19 - 6	16 - 10	13 - 9	17 - 8	14 - 10	11 - 5
	CSJ	16	18 - 5	16 - 9	14 - 8	19 - 9	18 - 0	15 - 8
	CSW	16	19 - 4	17 - 6	15 - 4	20 - 8	18 - 10	15 - 11
	CSE	16	19 - 10	18 - 0	15 - 9	21 - 3	19 - 4	16 - 2
	CSS	16	20 - 11	19 - 0	16 - 7	22 - 6	20 - 5	17 - 4
	CSX	16	21 - 5	19 - 6	17 - 0	23 - 0	20 - 11	17 - 6
	CSJ	14	19 - 9	18 - 0	15 - 8	21 - 3	19 - 3	16 - 10
	CSW	14	20 - 9	18 - 10	16 - 5	22 - 3	20 - 2	17 - 8
	CSE	14	21 - 6	19 - 7	17 - 1	23 - 1	21 - 0	18 - 4
	CSS	14	22 - 10	20 - 9	18 - 2	24 - 6	22 - 3	19 - 5
	CSX	14	23 - 5	21 - 3	18 - 7	25 - 1	22 - 10	19 - 11
	CSJ	12	22 - 0	20 - 0	17 - 6	23 - 8	21 - 6	18 - 9
	CSW	12	23 - 1	21 - 0	18 - 4	24 - 9	22 - 6	19 - 8
	CSE	12	24 - 2	21 - 11	19 - 2	25 - 11	23 - 6	20 - 7
	CSS	12	25 - 6	23 - 2	20 - 3	27 - 5	24 - 11	21 - 9
	CSX	12	26 - 5	24 - 0	20 - 11	28 - 4	25 - 9	22 - 6
	CSJ	10	23 - 5	21 - 3	18 - 7	25 - 1	22 - 10	19 - 11
	CSW	10	24 - 6	22 - 4	19 - 6	26 - 4	23 - 11	20 - 11
	CSE	10	25 - 8	23 - 4	20 - 4	27 - 6	25 - 0	21 - 10
	CSS	10	27 - 2	24 - 8	21 - 7	29 - 2	26 - 6	23 - 1
	CSX	10	28 - 1	25 - 6	22 - 3	30 - 1	27 - 4	23 - 11
10	CSJ	18	19 - 3	16 - 8	13 - 8	16 - 8	13 - 9	10 - 3
	CSW	18	20 - 5	17 - 8	14 - 5	17 - 4	14 - 3	10 - 7
	CSE	18	20 - 8	17 - 10	14 - 7	17 - 6	14 - 4	10 - 7
	CSS	18	21 - 5	18 - 6	15 - 1	17 - 10	14 - 8	10 - 11
	CSX	18	21 - 9	18 - 10	15 - 4	18 - 1	14 - 9	11 - 2
	CSJ	16	22 - 2	20 - 2	17 - 7	23 - 9	20 - 8	16 - 2
	CSW	16	23 - 1	21 - 0	18 - 4	24 - 9	21 - 2	16 - 6
	CSE	16	23 - 8	21 - 6	18 - 9	25 - 5	21 - 6	16 - 8
	CSS	16	24 - 11	22 - 8	19 - 10	26 - 9	23 - 0	17 - 9
	CSX	16	25 - 5	23 - 1	20 - 2	27 - 3	23 - 3	17 - 11
	CSJ	14	23 - 9	21 - 7	18 - 11	25 - 6	23 - 2	20 - 3
	CSW	14	24 - 10	22 - 7	19 - 8	26 - 7	24 - 2	21 - 2
	CSE	14	25 - 9	23 - 4	20 - 5	27 - 7	25 - 1	21 - 11

MEMBER			SINGLE SPAN SPACING O.C.			TWO EQUAL SPANS SPACING O.C.		
SIZE (in.)	CODE	GAGE	12	16	24	12	16	24
			ft. - in.	ft. - in.	ft. - in.	ft. - in.	ft. - in.	ft. - in.
10	CSS	14	27 - 2	24 - 9	21 - 7	29 - 2	26 - 6	23 - 2
	CSX	14	27 - 10	25 - 3	22 - 1	29 - 10	27 - 2	23 - 8
	CSJ	12	26 - 6	24 - 1	21 - 1	28 - 6	25 - 10	22 - 7
	CSW	12	27 - 8	25 - 2	22 - 0	29 - 9	27 - 0	23 - 7
	CSE	12	28 - 10	26 - 2	22 - 11	30 - 11	28 - 1	24 - 7
	CSS	12	30 - 5	27 - 8	24 - 2	32 - 8	29 - 8	25 - 11
	CSX	12	31 - 4	28 - 6	24 - 11	33 - 8	30 - 7	26 - 9
	CSJ	10	28 - 2	25 - 7	22 - 4	30 - 3	27 - 6	24 - 0
	CSW	10	29 - 5	26 - 9	23 - 5	31 - 7	28 - 9	25 - 1
	CSE	10	30 - 8	27 - 10	24 - 4	32 - 11	29 - 11	26 - 1
	CSS	10	32 - 5	29 - 5	25 - 8	34 - 9	31 - 7	27 - 7
	CSX	10	33 - 5	30 - 4	26 - 6	35 - 10	32 - 7	28 - 5
12	CSJ	16	25 - 5	23 - 1	20 - 1	25 - 4	21 - 1	16 - 0
	CSW	16	26 - 5	24 - 0	20 - 9	25 - 10	21 - 6	16 - 6
	CSE	16	26 - 11	24 - 6	21 - 2	26 - 3	21 - 10	17 - 0
	CSS	16	28 - 5	25 - 10	22 - 7	28 - 1	23 - 6	18 - 11
	CSX	16	28 - 11	26 - 4	23 - 0	28 - 5	24 - 1	19 - 4
	CSJ	14	27 - 9	25 - 2	22 - 0	29 - 9	27 - 0	22 - 3
	CSW	14	28 - 10	26 - 2	22 - 11	30 - 11	28 - 1	23 - 3
	CSE	14	29 - 9	27 - 1	23 - 8	32 - 0	28 - 11	22 - 11
	CSS	14	31 - 5	28 - 7	24 - 11	33 - 9	30 - 8	25 - 2
	CSX	14	32 - 1	29 - 2	25 - 6	34 - 6	31 - 4	25 - 3
	CSJ	12	30 - 11	28 - 1	24 - 7	33 - 3	30 - 2	26 - 4
	CSW	12	32 - 3	29 - 3	25 - 7	34 - 7	31 - 5	27 - 5
	CSE	12	33 - 5	30 - 4	26 - 6	35 - 10	32 - 7	28 - 6
	CSS	12	35 - 2	32 - 0	27 - 11	37 - 9	34 - 3	29 - 11
	CSX	12	36 - 2	32 - 11	28 - 9	38 - 10	35 - 3	30 - 10
	CSJ	10	32 - 11	29 - 11	26 - 1	35 - 4	32 - 1	28 - 0
	CSW	10	34 - 3	31 - 2	27 - 2	36 - 9	33 - 5	29 - 2
	CSE	10	35 - 7	32 - 4	28 - 3	38 - 2	34 - 8	30 - 3
	CSS	10	37 - 5	34 - 0	29 - 9	40 - 2	36 - 6	31 - 11
	CSX	10	38 - 7	35 - 0	30 - 7	41 - 4	37 - 7	32 - 10

Joist Notes:

1. For single span joist cells shaded in light blue, web stiffeners are needed at the bearing point.
   If cells are not shaded, web stiffeners are not required.
2. For double span joist cells shaded in medium blue, web stiffeners are required at the center bearing point only.
   For cells shaded in dark blue, web stiffeners are required at the end and center bearing conditions.
   If cells are not shaded, web stiffeners are not required at the center and the end bearing conditions.
3. Please refer to page 30 for other important information.