Date: 05/30/13

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

CITY OF PORTLAND, MAINE · RESURGAM

DIETRICH

st Spans—Dead Load=10 PSF/Live Load=50 PSF

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

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	25 - 3	22 - 11	20 - 0	27 - 4	24 - 10	21 - 8
	CSX	14	25 - 10	23 - 6	20 - 6	28 - 0	25 - 5	21 - 11
	CSJ	12	24 - 8	22 - 4	19 - 7	26 - 8	24 - 3	21 - 2
	CSW	12	25 - 9	23 - 4	20 - 5	27 - 10	25 - 3	22 - 1
	CSE	12	26 - 9	24 - 4	21 - 3	29 - 0	26 - 4	23 - 0
	CSS	12	28 - 3	25 - 8	22 - 5	30 - 7	27 - 9	24 - 3
	CSX	12	29 - 1	26 - 6	23 - 1	31 - 6	28 - 8	25 - 0
	CSJ	10	26 - 2	23 - 9	20 - 9	28 - 4	25 - 9	22 - 6
	CSW	10	27 - 4	24 - 10	21 - 8	29 - 7	26 - 11	23 - 6
	CSE	10	28 - 6	25 - 10	22 - 7	30 - 10	28 - 0	24 - 6
	CSS	10	30 - 1	27 - 4	23 - 10	32 - 6	29 - 7	25 - 10
	CSX	10	31 - 0	28 - 2	24 - 7	33 - 7	30 - 6	26 - 8
12	CSJ	16	23 - 7	21 - 5	18 - 4	22 - 7	18 - 8	14 - 2
	CSW	16	24 - 7	22 - 4	18 - 11	23 - 1	19 - 1	14 - 9
	CSE	16	25 - 0	22 - 9	19 - 4	23 - 5	19 - 6	15 - 2
	CSS	16	26 - 5	24 - 0	20 - 11	24 - 10	21 - 8	16 - 11
	CSX	16	26 - 10	24 - 5	21 - 4	25 - 2	22 - 2	17 - 4
	CSJ	14	25 - 9	23 - 5	20 - 5	27 - 10	25 - 4	20 - 0
	CSW	14	26 - 9	24 - 4	21 - 3	29 - 0	26 - 4	20 - 10
	CSE	14	27 - 8	25 - 1	21 - 11	29 - 11	26 - 1	20 - 6
	CSS	14	29 - 2	26 - 6	23 - 2	31 - 7	28 - 8	22 - 6
	CSX	14	29 - 10	27 - 1	23 - 8	32 - 3	28 - 11	22 - 7
	CSJ	12	28 - 9	26 - 1	22 - 10	31 - 1	28 - 3	24 - 8
	CSW	12	29 - 11	27 - 2	23 - 9	32 - 4	29 - 5	25 - 8
	CSE	12	31 - 0	28 - 2	24 - 8	33 - 7	30 - 6	26 - 8
	CSS	12	32 - 8	29 - 8	25 - 11	35 - 4	32 - 1	28 - 1
	CSX	12	33 - 7	30 - 6	26 - 8	36 - 4	33 - 0	28 - 10
	CSJ	10	30 - 7	27 - 9	24 - 3	33 - 1	30 - 0	26 - 3
	CSW	10	31 - 10	28 - 11	25 - 3	34 - 5	31 - 3	27 - 4
	CSE	10	33 - 0	30 - 0	26 - 3	35 - 9	32 - 6	28 - 4
	CSS	10	34 - 9	31 - 7	27 - 7	37 - 7	34 - 2	29 - 10
	CSX	10	35 - 9	32 - 6	28 - 5	38 - 9	35 - 2	30 - 9

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.