

DATE:

**CITY OF CHEYENNE – RESIDENTIAL DECK TABLE
MINIMUM JOIST, BEAM AND CAISSON SIZES
OR AS DESIGNED BY A REGISTERED ARCHITECT OR ENGINEER**

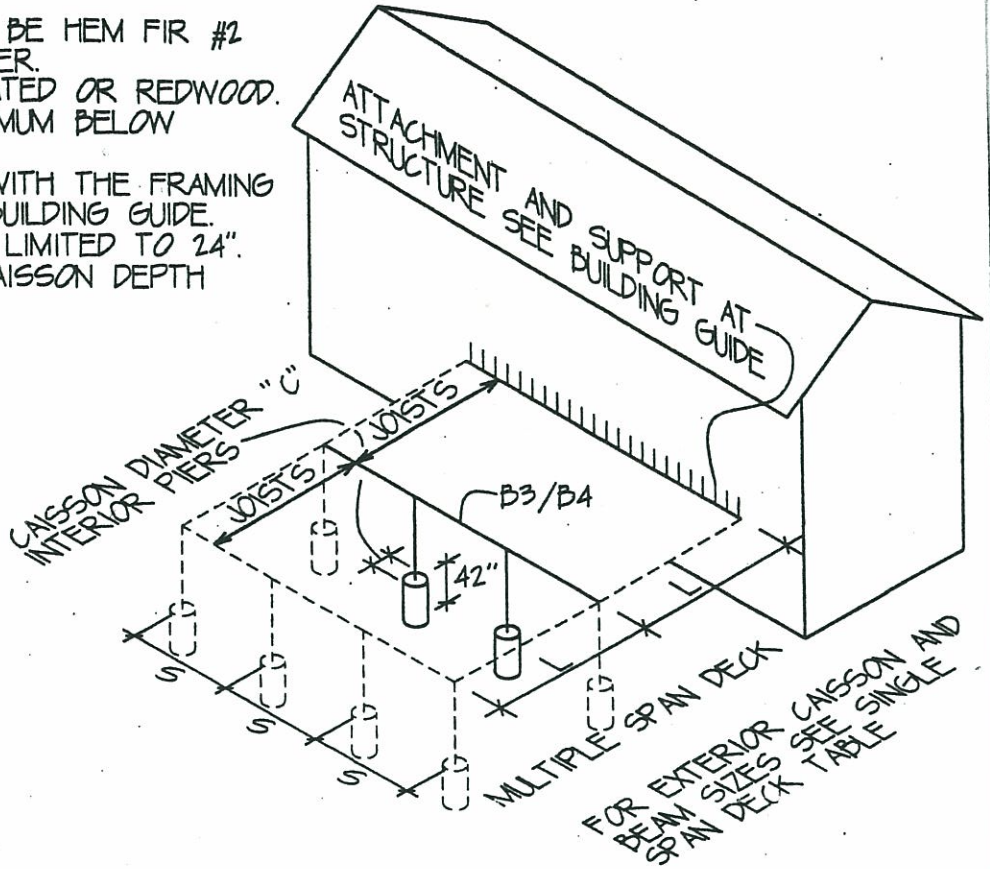
APPROVED:

CITY ENGINEER

NOTES:

1. ALL JOISTS AND BEAMS TO BE HEM FIR #2 OR REDWOOD #2 AND BETTER.
2. POST ARE TO BE 4X4 TREATED OR REDWOOD.
3. CAISSON DEPTH IS 36" MINIMUM BELOW FINISHED GRADE.
4. TABLES ARE TO BE USED WITH THE FRAMING DETAILS OUTLINED IN THE BUILDING GUIDE.
5. MAXIMUM JOIST CANTILEVER LIMITED TO 24".
6. SEE BUILDING GUIDE FOR CAISSON DEPTH DETAIL.

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|-----|----------------------------------|
| | JOIST SIZE AND SPACING |
| 4' | 2X4 @ 24" OC. |
| 6' | 2X4 @ 16" OC. 2X6 @ 24" OC. |
| 8' | 2X6 @ 16" OC. 2X8 @ 24" OC. |
| 10' | 2X6 @ 12" OC. 2X8 @ 24" OC. |
| 12' | 2X8 @ 16" OC. 2X10 @ 24" OC. |
| 14' | 2X8 @ 12" OC. 2X10 @ 16" OC. |
| 16' | 2X10 @ 12" OC. 2X12 @ 16" OC. |



JOIST LENGTH "L" ft

| | | | | | | | |
|-----|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|-----------------------------------|
| | 4' | 6' | 8' | 10' | 12' | 14' | 16' |
| 4' | C: 12" φ B3: 2X6 B4: 2-2X4 | C: 14" φ B3: 2X6 B4: 2-2X4 | C: 16" φ B3: 2X8 B4: 2-2X6 | C: 18" φ B3: 2X8 B4: 2-2X6 | C: 20" φ B3: 2X8 B4: 2-2X6 | C: 20" φ B3: 2X10 B4: 2-2X6 | C: 22" φ B3: 2X10 B4: 2-2X8 |
| 6' | C: 14" φ B3: 2X8 B4: 2-2X6 | C: 18" φ B3: 2X10 B4: 2-2X6 | C: 20" φ B3: 2X10 B4: 2-2X8 | C: 20" φ B3: 2X12 B4: 2-2X8 | C: 22" φ B3: 2X12 B4: 2-2X10 | C: 24" φ B3: 2X12 B4: 2-2X10 | |
| 8' | C: 16" φ B3: 2X10 B4: 2-2X8 | C: 20" φ B3: 2X12 B4: 2-2X8 | C: 22" φ B3: ----- B4: 2-2X10 | C: 24" φ B3: ----- B4: 2-2X10 | | | |
| 10' | C: 18" φ B3: 2X12 B4: 2-2X8 | C: 20" φ B3: ----- B4: 2-2X10 | C: 24" φ B3: ----- B4: 2-2X12 | | | | |
| 12' | C: 20" φ B3: ----- B4: 2-2X10 | C: 22" φ B3: ----- B4: 2-2X12 | | | | | |
| 14' | C: 20" φ B3: ----- B4: 2-2X12 | | | | | | |
| 16' | | | | | | | |

ENGINEERING DESIGN REQUIRED

C = CAISSON DIAMETER, in | B3 = 1 PLY BEAM SIZE | B4 = 2 PLY BEAM SIZE

MULTIPLE SPAN DECK – INTERIOR CAISSON AND BEAM SIZES

The City of Cheyenne residential deck design is not approved to support a hot tub or other large concentrated loads.