

11-07-00  
Graphical Illustration - Not To Scale  
Member Cut Length - 11-07-00  
MemberPitch - 0/12

**Design Information:**

|                     |         |                  |                         |                 |                         |                   |                         |
|---------------------|---------|------------------|-------------------------|-----------------|-------------------------|-------------------|-------------------------|
| Building Code:      | IRC2015 | Floor Dead Load: | 10.0 lb/ft <sup>2</sup> | Roof Dead Load: | 10.0 lb/ft <sup>2</sup> | Ground Snow Load: | 20.0 lb/ft <sup>2</sup> |
| Design Methodology: | ASD     | Floor Live Load: | 40.0 lb/ft <sup>2</sup> | Roof Live Load: | 20.0 lb/ft <sup>2</sup> |                   |                         |
|                     |         | Unbraced Length  | Top: 0-00               | Bottom:         | 1-08-04                 |                   |                         |

**Design Results:**

|                       | Location | Design        | Control                       | Result         | LDF  | Load Combination |
|-----------------------|----------|---------------|-------------------------------|----------------|------|------------------|
| Critical Moment (Pos) | 7-01-05  | 8328.20 lb ft | 28945.56 lb ft                | Passed - 29%   | 1.00 | D + L            |
| Critical Moment (Neg) | 8-08     | -250.91 lb ft | 28945.56 lb ft                | Passed - 1%    | 1.00 | D + L            |
| Critical Shear        | 10-01-08 | 3609.82 lb    | 9310.00 lb                    | Passed - 39%   | 1.00 | D + L            |
| Live Load Deflection  | 6-02-03  | 0-01          | 0-12 (L/360)                  | Passed - L/999 | -    | L                |
| Total Load Deflection | 6-02-03  | 0-02          | 1-00 (L/240)                  | Passed - L/999 | -    | D + L            |
| Max. Reaction         | 8-08     | 3466.16 lb    | Supported Mtl<br>24937.62 lb  | Passed - 14%   | 1.00 | D + L            |
|                       | 11-04-08 | 3652.68 lb    | Supporting Mtl<br>10718.73 lb | Passed - 40%   | 1.00 | D + L            |

**Design Notes:**

\* Member design assumed proper ply to ply connection by others. Fastener spacing along length of member must not exceed 4 times depth of member. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.

**Loading:**

| Type        | Start   | End      | Source            | Maximum Load Magnitudes |                   |           |      |
|-------------|---------|----------|-------------------|-------------------------|-------------------|-----------|------|
|             |         |          |                   | Dead                    | Floor Live        | Roof Live | Snow |
| Self Weight | 0-00    | 11-07-00 | Self Weight       | 14 lb/ft                | -                 | -         | -    |
| Uniform     | 0-00    | 6-11-06  | FC1 Floor Decking | 18 lb/ft                | 72 lb/ft          | -         | -    |
| Uniform     | 3-01-06 | 11-01-05 | Smoothed Load     | 77 lb/ft                | 308 lb/ft         | -         | -    |
| Uniform     | 6-11-06 | 9-06-04  | FC1 Floor Decking | 8 lb/ft                 | 32 lb/ft          | -         | -    |
| Point       | 9-06-04 | 9-06-04  | 1BM3-2(i1166)     | 338.00 lb               | 1267.00/-55.00 lb | -         | -    |
| Point       | 5-00    | 5-00     | FJ16(i1081)       | 154.00 lb               | 616.00 lb         | -         | -    |
| Point       | 2-05-00 | 2-05-00  | FJ16(i1083)       | 135.00 lb               | 538.00 lb         | -         | -    |

**Support Information:**

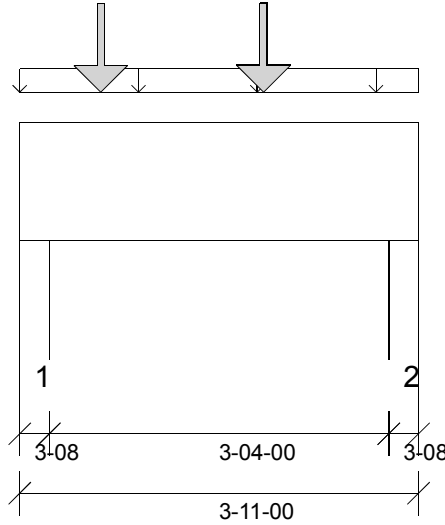
| Support | Start    | End      | Source   | Maximum Analysis Reactions |                   |           |      |
|---------|----------|----------|----------|----------------------------|-------------------|-----------|------|
|         |          |          |          | Dead                       | Floor Live        | Roof Live | Snow |
| 1       | 0-00     | 9-08     | W35(i37) | 763.00 lb                  | 2691.00/-10.00 lb | -         | -    |
| 2       | 11-03-08 | 11-07-00 | W40(i40) | 810.00 lb                  | 2854.00/-45.00 lb | -         | -    |

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.

- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.

- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.



Graphical Illustration - Not To Scale  
Member Cut Length - 3-11-00  
MemberPitch - 0/12

**Design Information:**

|                         |  |   |   |
|-------------------------|--|---|---|
| Building Code: IRC2015  | Floor Dead Load: 10.0 lb/ft <sup>2</sup> | Roof Dead Load: 10.0 lb/ft <sup>2</sup> | Ground Snow Load: 20.0 lb/ft <sup>2</sup> |
| Design Methodology: ASD | Floor Live Load: 40.0 lb/ft <sup>2</sup> | Roof Live Load: 20.0 lb/ft <sup>2</sup> |   |
|                         | Unbraced Length Top: 0-00                | Bottom: 1-05-00                         |   |

**Design Results:**

|                       | Location | Design       | Control                 | Result                    | LDF          | Load Combination |       |
|-----------------------|----------|--------------|-------------------------|---------------------------|--------------|------------------|-------|
| Critical Moment (Pos) | 2-04-12  | 769.78 lb ft | 28945.56 lb ft          | Passed - 3%               | 1.00         | D + L            |       |
| Critical Shear        | 1-05-08  | 855.61 lb    | 9310.00 lb              | Passed - 9%               | 1.00         | D + L            |       |
| Live Load Deflection  | 1-11-10  | 0-00         | 0-12 (L/360)            | Passed - L/999            | -            | L                |       |
| Total Load Deflection | 1-11-10  | 0-00         | 1-00 (L/240)            | Passed - L/999            | -            | D + L            |       |
| Max. Reaction         | 2-08     | 898.47 lb    | Supported Mt 9187.52 lb | Supporting Mt 10718.78 lb | Passed - 10% | 1.00             | D + L |
|                       | 3-08-08  | 614.22 lb    | 9187.63 lb              | 10718.90 lb               | Passed - 7%  | 1.00             | D + L |

**Design Notes:**

- \* Member design assumed proper ply to ply connection by others. Fastener spacing along length of member must not exceed 4 times depth of member. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.

**Loading:**

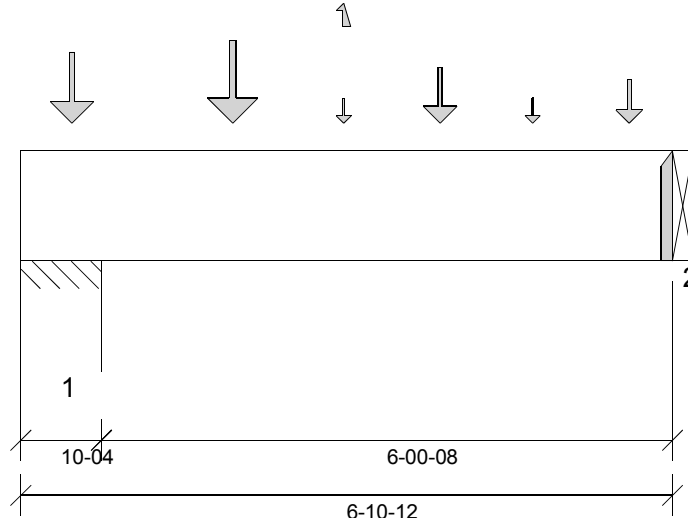
| Type        | Start   | End     | Source            | Maximum Load Magnitudes |            |           |      |
|-------------|---------|---------|-------------------|-------------------------|------------|-----------|------|
|             |         |         |                   | Dead                    | Floor Live | Roof Live | Snow |
| Self Weight | 0-00    | 3-11-00 | Self Weight       | 14 lb/ft                | -          | -         | -    |
| Uniform     | -0-00   | 3-11-00 | FC1 Floor Decking | 3 lb/ft                 | 12 lb/ft   | -         | -    |
| Point       | 9-09    | 9-09    | FJ18(i1173)       | 139.00 lb               | 556.00 lb  | -         | -    |
| Point       | 2-04-12 | 2-04-12 | FJ18(i1186)       | 140.00 lb               | 561.00 lb  | -         | -    |

**Support Information:**

| Support | Start   | End     | Source   | Maximum Analysis Reactions |            |           |      |
|---------|---------|---------|----------|----------------------------|------------|-----------|------|
|         |         |         |          | Dead                       | Floor Live | Roof Live | Snow |
| 1       | 0-00    | 3-08    | W40(i40) | 202.00 lb                  | 696.00 lb  | -         | -    |
| 2       | 3-07-08 | 3-11-00 | W41(i41) | 145.00 lb                  | 469.00 lb  | -         | -    |

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
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- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.



Graphical Illustration - Not To Scale  
Member Cut Length - 6-10-12  
MemberPitch - 0/12

**Design Information:**

|                     |         |                  |                         |                 |                         |                   |                         |
|---------------------|---------|------------------|-------------------------|-----------------|-------------------------|-------------------|-------------------------|
| Building Code:      | IRC2015 | Floor Dead Load: | 10.0 lb/ft <sup>2</sup> | Roof Dead Load: | 10.0 lb/ft <sup>2</sup> | Ground Snow Load: | 20.0 lb/ft <sup>2</sup> |
| Design Methodology: | ASD     | Floor Live Load: | 40.0 lb/ft <sup>2</sup> | Roof Live Load: | 20.0 lb/ft <sup>2</sup> |                   |                         |
|                     |         | Unbraced Length  | Top: 0-00               | Bottom:         | 1-01-08                 |                   |                         |

**Design Results:**

|                       | Location | Design        | Control   | Result         | LDF  | Load Combination |
|-----------------------|----------|---------------|---|----------------|------|------------------|
| Critical Moment (Pos) | 4-05-04  | 2640.55 lb ft | 28945.56 lb ft  | Passed - 9%    | 1.00 | D + L            |
| Critical Moment (Neg) | 9-04     | -292.35 lb ft | 28945.56 lb ft  | Passed - 1%    | 1.00 | D + L            |
| Critical Shear        | 2-00-04  | 1078.97 lb    | 9310.00 lb  | Passed - 12%   | 1.00 | D + L            |
| Live Load Deflection  | 3-09-04  | 0-00          | 0-12 (L/360)  | Passed - L/999 | -    | L                |
| Total Load Deflection | 3-09-05  | 0-00          | 1-00 (L/240)  | Passed - L/999 | -    | D + L            |
| Max. Reaction         | 9-04     | 3030.81 lb    | Supported Mtl: 26840.36 lb<br>Supporting Mtl: 31313.75 lb | Passed - 11%   | 1.00 | D + L            |
|                       | 6-10-12  | 1609.32 lb    | 1609.32 lb 0.00 lb  | Passed - 100%  | 1.00 | D + L            |

**Design Notes:**

\* Member design assumed proper ply to ply connection by others. Fastener spacing along length of member must not exceed 4 times depth of member. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.

**Loading:**

| Type        | Start   | End     | Source      | Maximum Load Magnitudes |                  |           |      |
|-------------|---------|---------|-------------|-------------------------|------------------|-----------|------|
|             |         |         |             | Dead                    | Floor Live       | Roof Live | Snow |
| Self Weight | 0-00    | 6-10-12 | Self Weight | 14 lb/ft                | -                | -         | -    |
| Point       | 6-08    | 6-08    | -           | 253.00 lb               | 1010.00 lb       | -         | -    |
| Point       | 2-02-14 | 2-02-14 | -           | 309.00 lb               | 1238.00 lb       | -         | -    |
| Point       | 4-05-04 | 4-05-04 | FJ18(i1171) | 177.00 lb               | 710.00 lb        | -         | -    |
| Point       | 6-05-04 | 6-05-04 | FJ18(i1142) | 116.00 lb               | 462.00 lb        | -         | -    |
| Point       | 3-05-00 | 3-05-00 | FJ20(i1120) | -                       | 103.00/-75.00 lb | -         | -    |
| Point       | 5-05-00 | 5-05-00 | FJ4(i1162)  | 24.00 lb                | 95.00 lb         | -         | -    |

**Support Information:**

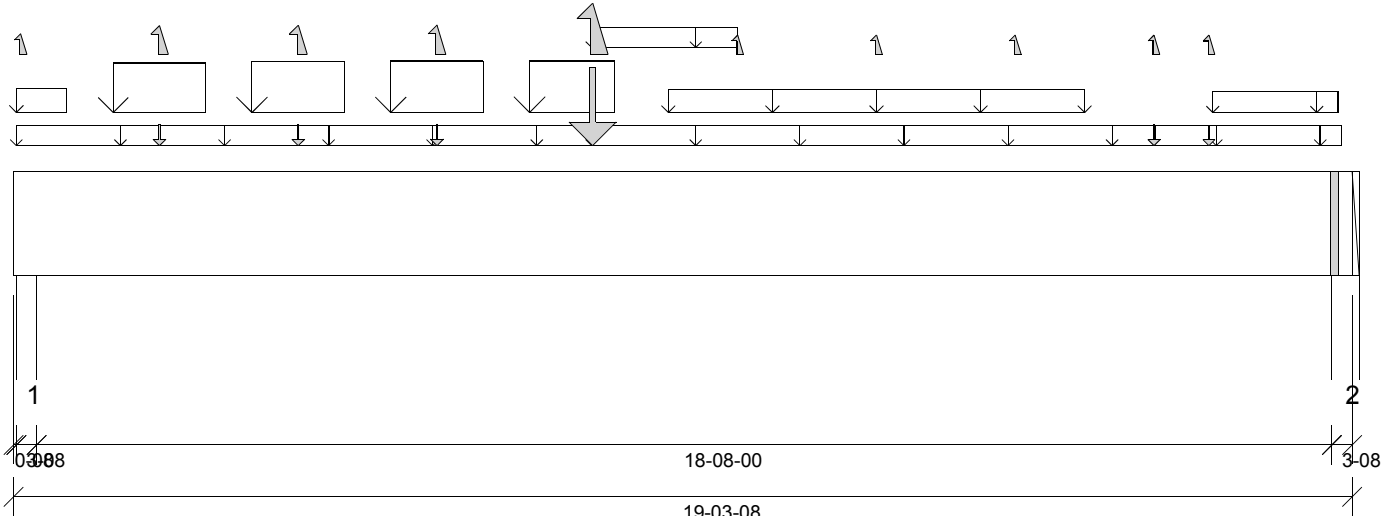
| Support | Start   | End     | Source        | Maximum Analysis Reactions |                   |           |      |
|---------|---------|---------|---------------|----------------------------|-------------------|-----------|------|
|         |         |         |               | Dead                       | Floor Live        | Roof Live | Snow |
| 1       | 0-00    | 10-04   | W39(i39)      | 646.00 lb                  | 2406.00/-43.00 lb | -         | -    |
| 2       | 6-10-12 | 6-10-12 | 1BM1-2(i1070) | 338.00 lb                  | 1267.00/-55.00 lb | -         | -    |

**Connector Information:**

| Support | Manufacturer | Model   | Nailing Requirements |      |        | Mill Seal Length | Other Information                         |
|---------|--------------|---------|----------------------|------|--------|------------------|---|
|         |              |         | Top                  | Face | Member |                  |   |
| 2       | Simpson      | HHUS410 | -                    | -    | -      | N/A              | Connector manually specified by the user. |

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.



19-03-08  
Graphical Illustration - Not To Scale  
Member Cut Length - 19-03-08  
MemberPitch - 0/12

**Design Information:**

|                     |         |                      |                         |                 |                         |                   |                         |
|---------------------|---------|----------------------|-------------------------|-----------------|-------------------------|-------------------|-------------------------|
| Building Code:      | IRC2015 | Floor Dead Load:     | 10.0 lb/ft <sup>2</sup> | Roof Dead Load: | 10.0 lb/ft <sup>2</sup> | Ground Snow Load: | 20.0 lb/ft <sup>2</sup> |
| Design Methodology: | ASD     | Floor Live Load:     | 40.0 lb/ft <sup>2</sup> | Roof Live Load: | 20.0 lb/ft <sup>2</sup> |                   |                         |
|                     |         | Unbraced Length Top: | 0-08                    | Bottom:         | 1-10-08                 |                   |                         |

**Design Results:**

|                       | Location | Design         | Control                      | Result         | LDF  | Load Combination        |
|-----------------------|----------|----------------|------------------------------|----------------|------|-------------------------|
| Critical Moment (Pos) | 8-04-14  | 49196.21 lb ft | 79170.20 lb ft               | Passed - 62%   | 1.15 | D + Lr                  |
| Critical Moment (Neg) | 8-01-04  | -8586.35 lb ft | 110149.85 lb ft              | Passed - 8%    | 1.60 | 0.6D + 0.6W             |
| Critical Shear        | 1-10-00  | 8287.82 lb     | 20648.25 lb                  | Passed - 40%   | 1.15 | D + Lr                  |
| Live Load Deflection  | 9-03-00  | 0-04           | 0-12 (L/360)                 | Passed - L/828 | -    | 0.75(L + Lr + 0.6W)     |
| Total Load Deflection | 9-02-09  | 0-09           | 1-00 (L/240)                 | Passed - L/403 | -    | D + 0.75(L + Lr + 0.6W) |
| Max. Reaction         |          |                | Supported Mt/ Supporting Mt/ |                |      |                         |
|                       | 3-00     | 8942.48 lb     | 13781.29 lb / 16078.17 lb    | Passed - 65%   | 1.60 | D + 0.75(L + Lr + 0.6W) |
|                       | 3-00     | -1995.99 lb    | 0.00 lb / -                  |                | 1.60 | 0.6D + 0.6W             |
|                       | 19-01-00 | 5293.45 lb     | 13781.40 lb / 16078.30 lb    | Passed - 38%   | 1.15 | D + 0.75(L + Lr)        |
|                       | 19-01-00 | -587.04 lb     | 0.00 lb / -                  |                | 1.60 | 0.6D + 0.6W             |

**Design Notes:**

\* Member design assumed proper ply to ply connection by others. Fastener spacing along length of member must not exceed 4 times depth of member. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.

**Loading:**

| Type        | Start    | End      | Source            | Maximum Load Magnitudes |                 |                  |            |
|-------------|----------|----------|-------------------|-------------------------|-----------------|------------------|------------|
|             |          |          |                   | Dead                    | Floor Live      | Roof Live        | Snow       |
| Self Weight | 0-00     | 19-03-08 | Self Weight       | 28 lb/ft                | -               | -                | -          |
| Uniform     | 0-08     | 8-04-00  | FC1 Floor Decking | -                       | 29 lb/ft        | -                | -          |
| Uniform     | 0-08     | 9-04     | W61(i338)         | -                       | -               | 106 lb/ft        | 44 lb/ft   |
| Uniform     | 1-05-04  | 2-09-04  | W61(i338)         | 512 lb/ft               | -               | 520 lb/ft        | 218 lb/ft  |
| Uniform     | 3-05-04  | 4-09-04  | W61(i338)         | 524 lb/ft               | -               | 543 lb/ft        | 228 lb/ft  |
| Uniform     | 5-05-04  | 6-09-04  | W61(i338)         | 525 lb/ft               | -               | 546 lb/ft        | 229 lb/ft  |
| Uniform     | 7-05-04  | 8-08-00  | W61(i338)         | 552 lb/ft               | -               | 557 lb/ft        | 234 lb/ft  |
| Uniform     | 8-04-00  | 19-01-12 | FC1 Floor Decking | -                       | 24 lb/ft        | -                | -          |
| Uniform     | 8-04-00  | 10-05-04 | FC1 Floor Decking | -                       | 9 lb/ft         | -                | -          |
| Uniform     | 9-05-04  | 15-05-04 | Smoothed Load     | 30 lb/ft                | 124 lb/ft       | -                | -          |
| Uniform     | 17-03-06 | 19-01-02 | FC1 Floor Decking | -                       | 83 lb/ft        | -                | -          |
| Point       | 2-01-04  | 2-01-04  | -                 | 98.00 lb                | -               | 86.00/-4.00 lb   | 82.00 lb   |
| Point       | 4-01-04  | 4-01-04  | -                 | 98.00 lb                | -               | 86.00/-4.00 lb   | 82.00 lb   |
| Point       | 6-01-04  | 6-01-04  | -                 | 105.00 lb               | -               | 102.00/-5.00 lb  | 97.00 lb   |
| Point       | 8-04-03  | 8-04-03  | -                 | 3307.00 lb              | 122.00 lb       | 3235.00/-3.70 lb | 1255.00 lb |
| Point       | 10-05-04 | 10-05-04 | FJ8(i1078)        | -                       | -5.00 lb        | -                | -          |
| Point       | 12-05-04 | 12-05-04 | FJ8(i1080)        | -                       | -9.00 lb        | -                | -          |
| Point       | 14-05-04 | 14-05-04 | FJ8(i1194)        | -                       | -9.00 lb        | -                | -          |
| Point       | 16-05-04 | 16-05-04 | FJ8(i1084)        | -                       | 174.00/-6.00 lb | -                | -          |
| Point       | 17-02-12 | 17-02-12 | FJ8(i1188)        | -                       | 111.00/-2.00 lb | -                | -          |
| Point       | 1-04     | 1-04     | W61(i338)         | -                       | -               | -                | -          |

**Support Information:**

| Support | Start    | End      | Source   | Maximum Analysis Reactions |                   |                   |            |
|---------|----------|----------|----------|----------------------------|-------------------|-------------------|------------|
|         |          |          |          | Dead                       | Floor Live        | Roof Live         | Snow       |
| 1       | 0-08     | 4-00     | W23(i25) | 4668.00 lb                 | 648.00/-9.00 lb   | 4244.00/-12.00 lb | 1836.00 lb |
| 2       | 19-00-00 | 19-03-08 | W39(i39) | 2757.00 lb                 | 1179.00/-22.00 lb | 2174.00/-4.00 lb  | 898.00 lb  |

**Errors, Warnings & Notes:**

\* CAUTION: The maximum net analysis reaction exceeds the user-defined maximum uplift value at one or more supports.

- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.

- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.



Job: 21-5288 PARKS BUILDING SUPPLY JSJ-GAVIN II A-LOT #25 WFS

Member Type: Beam | Level: 2nd Floor

Designed by Single Member Design Engine

Member: 3 - 1 3/4" x 18" (2.0E 3100) LVL

Label: 1BM4-3-i1024

Page: 5 of 13

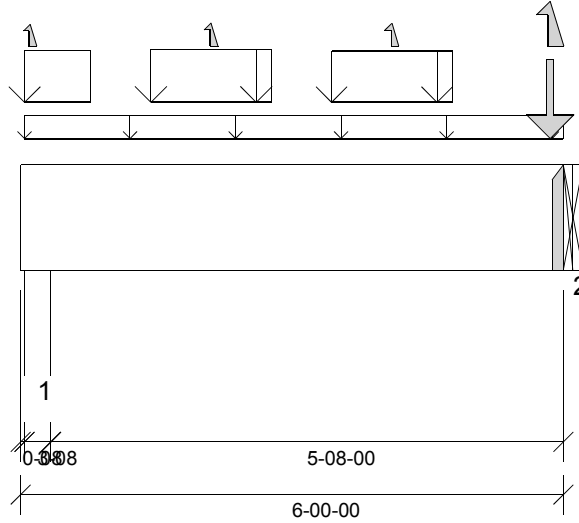
Date: 08/16/2021 13:47:37

Status: Design Passed

- 
- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
  - \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
  - \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.

- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.

- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.



Graphical Illustration - Not To Scale  
Member Cut Length - 6-00-00  
MemberPitch - 0/12

**Design Information:**

|                         |  |   |   |
|-------------------------|--|---|---|
| Building Code: IRC2015  | Floor Dead Load: 10.0 lb/ft <sup>2</sup> | Roof Dead Load: 10.0 lb/ft <sup>2</sup> | Ground Snow Load: 20.0 lb/ft <sup>2</sup> |
| Design Methodology: ASD | Floor Live Load: 40.0 lb/ft <sup>2</sup> | Roof Live Load: 20.0 lb/ft <sup>2</sup> |   |
|                         | Unbraced Length Top: 0-08                | Bottom: 5-08-00                         |   |

**Design Results:**

|                       | Location | Design        | Control                      | Result         | LDF  | Load Combination        |
|-----------------------|----------|---------------|------------------------------|----------------|------|-------------------------|
| Critical Moment (Pos) | 3-09-02  | 1550.05 lb ft | 16643.70 lb ft               | Passed - 9%    | 1.15 | D + Lr                  |
| Critical Moment (Neg) | 4-01-04  | -369.93 lb ft | 23156.44 lb ft               | Passed - 2%    | 1.60 | 0.6D + 0.6W             |
| Critical Shear        | 4-10-00  | 1132.52 lb    | 5353.25 lb                   | Passed - 21%   | 1.15 | D + Lr                  |
| Live Load Deflection  | 3-02-06  | 0-00          | 0-12 (L/360)                 | Passed - L/999 | -    | 0.6W                    |
| Total Load Deflection | 3-02-08  | 0-00          | 1-00 (L/240)                 | Passed - L/999 | -    | D + 0.75(L + Lr + 0.6W) |
| Max. Reaction         |          |               | Supported Mt/ Supporting Mt/ |                |      |                         |
|                       | 2-04     | 1069.14 lb    | 4593.73 lb / 5359.36 lb      | Passed - 23%   | 1.60 | D + 0.75(L + Lr + 0.6W) |
|                       | 2-04     | -282.74 lb    | 0.00 lb / -                  |                | 1.60 | 0.6D + 0.6W             |
|                       | 6-00-00  | 6391.77 lb    | 6391.77 lb / 0.00 lb         | Passed - 100%  | 1.15 | D + Lr                  |
|                       | 6-00-00  | -761.87 lb    | 0.00 lb / -                  |                | 1.60 | 0.6D + 0.6W             |

**Design Notes:**

\*

**Loading:**

| Type        | Start   | End     | Source            | Maximum Load Magnitudes |            |                  |            |
|-------------|---------|---------|-------------------|-------------------------|------------|------------------|------------|
|             |         |         |                   | Dead                    | Floor Live | Roof Live        | Snow       |
| Self Weight | 0-00    | 6-00-00 | Self Weight       | 7 lb/ft                 | -          | -                | -          |
| Uniform     | 0-08    | 6-00-00 | FC1 Floor Decking | 11 lb/ft                | 42 lb/ft   | -                | -          |
| Uniform     | 0-08    | 9-04    | W60(i340)         | 211 lb/ft               | -          | 182 lb/ft        | 63 lb/ft   |
| Uniform     | 1-05-04 | 2-09-04 | W60(i340)         | 180 lb/ft               | -          | 202 lb/ft        | 70 lb/ft   |
| Uniform     | 3-05-04 | 4-09-04 | W60(i340)         | 176 lb/ft               | -          | 185 lb/ft        | 65 lb/ft   |
| Point       | 1-04    | 1-04    | W60(i340)         | -                       | -          | -                | -          |
| Point       | 2-01-04 | 2-01-04 | W60(i340)         | -                       | -          | -                | -          |
| Point       | 4-01-04 | 4-01-04 | W60(i340)         | -                       | -          | -                | -          |
| Point       | 5-10-04 | 5-10-04 | W60(i340)         | 3013.00 lb              | -          | 2975.00/-3.00 lb | 1165.00 lb |

**Support Information:**

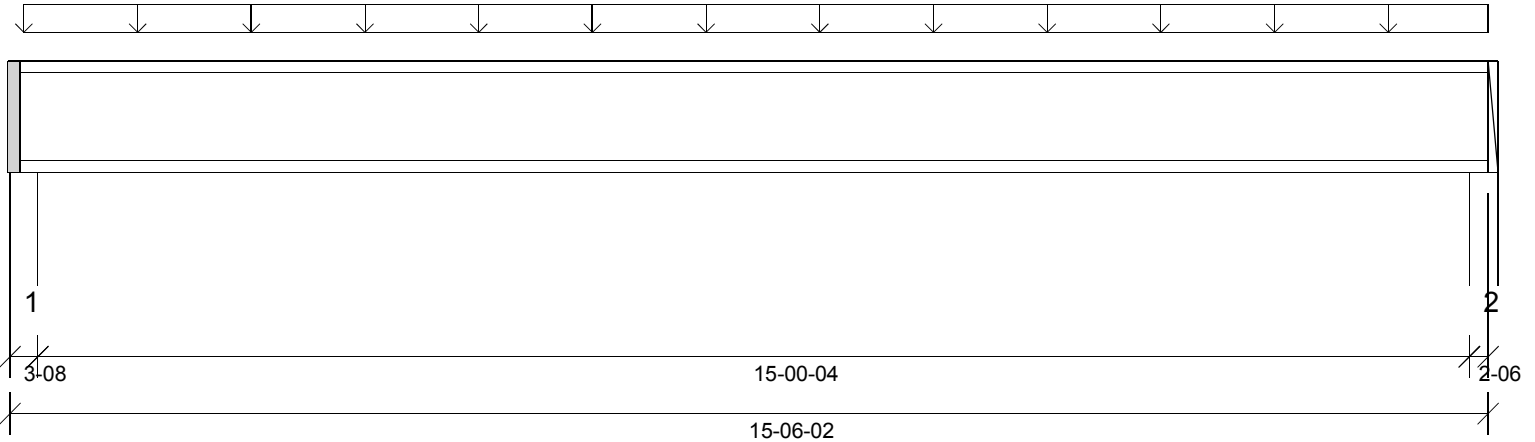
| Support | Start   | End     | Source        | Maximum Analysis Reactions |            |                  |            |
|---------|---------|---------|---------------|----------------------------|------------|------------------|------------|
|         |         |         |               | Dead                       | Floor Live | Roof Live        | Snow       |
| 1       | 0-08    | 4-00    | W34(i26)      | 440.00 lb                  | 129.00 lb  | 389.00 lb        | 135.00 lb  |
| 2       | 6-00-00 | 6-00-00 | 1BM4-3(i1024) | 3307.00 lb                 | 122.00 lb  | 3235.00/-3.00 lb | 1255.00 lb |

**Connector Information:**

| Support | Manufacturer | Model      | Nailing Requirements |      |        | Min Seal Length | Other Information                         |
|---------|--------------|------------|----------------------|------|--------|-----------------|---|
|         |              |            | Top                  | Face | Member |                 |   |
| 2       |              | IUS1.81/14 | -                    | -    | -      | N/A             | Connector manually specified by the user. |

**Errors, Warnings & Notes:**

- \* CAUTION: The maximum net analysis reaction exceeds the user-defined maximum uplift value at one or more supports.
- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.



Graphical Illustration - Not To Scale  
Member Cut Length - 15-06-02  
MemberPitch - 0/12

**Design Information:**

|                         |  |   |   |
|-------------------------|--|---|---|
| Building Code: IRC2015  | Floor Dead Load: 10.0 lb/ft <sup>2</sup> | Roof Dead Load: 10.0 lb/ft <sup>2</sup> | Ground Snow Load: 20.0 lb/ft <sup>2</sup> |
| Design Methodology: ASD | Floor Live Load: 40.0 lb/ft <sup>2</sup> | Roof Live Load: 20.0 lb/ft <sup>2</sup> |   |
|                         | Unbraced Length Top: 0-00                | Bottom: 15-00-04                        |   |

**Design Results:**

|                       | Location | Design        | Control                    | Result         | LDF          | Load Combination |       |
|-----------------------|----------|---------------|----------------------------|----------------|--------------|------------------|-------|
| Critical Moment (Pos) | 7-09-10  | 2882.31 lb ft | 4530.03 lb ft              | Passed - 64%   | 1.00         | D + L            |       |
| Critical Shear        | 15-03-11 | 750.62 lb     | 1730.00 lb                 | Passed - 43%   | 1.00         | D + L            |       |
| Live Load Deflection  | 7-09-10  | 0-03          | 0-12 (L/480)               | Passed - L/999 | -            | L                |       |
| Total Load Deflection | 7-09-10  | 0-03          | 1-00 (L/240)               | Passed - L/851 | -            | D + L            |       |
| Max. Reaction         | 2-08     | 765.52 lb     | Supported Mt<br>1500.00 lb | 7656.23 lb     | Passed - 51% | 1.00             | D + L |
|                       | 15-04-12 | 780.31 lb     | 1387.50 lb                 | 5195.35 lb     | Passed - 56% | 1.00             | D + L |

**Design Notes:**

\*

**Loading:**

| Type    | Start | End      | Source            | Maximum Load Magnitudes |            |           |      |
|---------|-------|----------|-------------------|-------------------------|------------|-----------|------|
|         |       |          |                   | Dead                    | Floor Live | Roof Live | Snow |
| Uniform | 1-12  | 15-06-02 | FC1 Floor Decking | 20 lb/ft                | 80 lb/ft   | -         | -    |

**Support Information:**

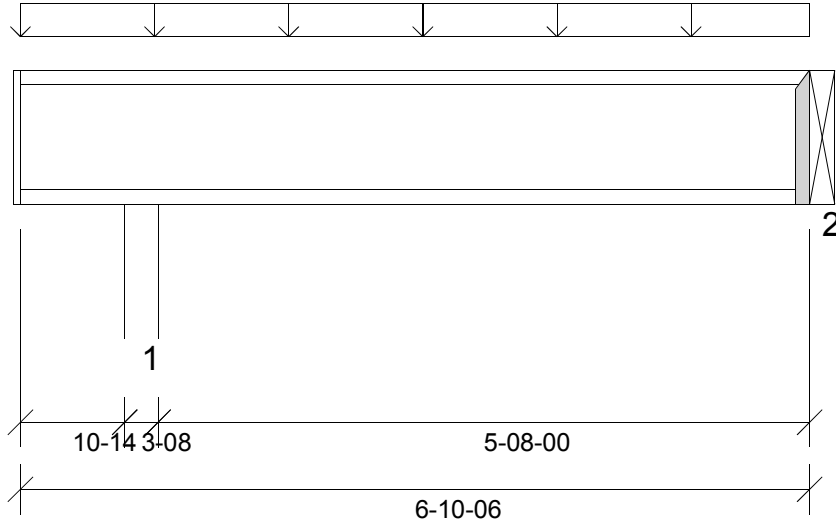
| Support | Start    | End      | Source   | Maximum Analysis Reactions |            |           |      |
|---------|----------|----------|----------|----------------------------|------------|-----------|------|
|         |          |          |          | Dead                       | Floor Live | Roof Live | Snow |
| 1       | 0-00     | 3-08     | W35(i37) | 152.00 lb                  | 610.00 lb  | -         | -    |
| 2       | 15-03-12 | 15-06-02 | W24(i27) | 157.00 lb                  | 627.00 lb  | -         | -    |

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- \* A load bearing wall is supported by the I-joist at a location where the I-joist is supported by a member below. Please see manufacturer installation guidelines for requirements of blocking/squash blocks.

- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.

- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.



Graphical Illustration - Not To Scale  
Member Cut Length - 6-10-06  
MemberPitch - 0/12

**Design Information:**

|                     |         |                      |                         |                 |                         |                   |                         |
|---------------------|---------|----------------------|-------------------------|-----------------|-------------------------|-------------------|-------------------------|
| Building Code:      | IRC2015 | Floor Dead Load:     | 10.0 lb/ft <sup>2</sup> | Roof Dead Load: | 10.0 lb/ft <sup>2</sup> | Ground Snow Load: | 20.0 lb/ft <sup>2</sup> |
| Design Methodology: | ASD     | Floor Live Load:     | 40.0 lb/ft <sup>2</sup> | Roof Live Load: | 20.0 lb/ft <sup>2</sup> |                   |                         |
|                     |         | Unbraced Length Top: | 0-00                    | Bottom:         | 5-08-00                 |                   |                         |

**Design Results:**

|                       | Location | Design       | Control                                  | Result         | LDF  | Load Combination |
|-----------------------|----------|--------------|--|----------------|------|------------------|
| Critical Moment (Pos) | 3-11-12  | 415.82 lb ft | 4530.03 lb ft                            | Passed - 9%    | 1.00 | D + L            |
| Critical Moment (Neg) | 1-00-10  | -65.21 lb ft | 4530.03 lb ft                            | Passed - 1%    | 1.00 | D + L            |
| Critical Shear        | 6-10-05  | 287.86 lb    | 1730.00 lb                               | Passed - 17%   | 1.00 | D + L            |
| Live Load Deflection  | 3-11-08  | 0-00         | 0-12 (L/480)                             | Passed - L/999 | -    | L                |
| Total Load Deflection | 3-11-09  | 0-00         | 1-00 (L/240)                             | Passed - L/999 | -    | D + L            |
| Max. Reaction         |          |              | <u>Supported Mt</u> <u>Supporting Mt</u> |                |      |                  |
|                       | 1-00-10  | 416.43 lb    | 3130.00 lb    7656.24 lb                 | Passed - 13%   | 1.00 | D + L            |
|                       | 6-10-06  | 310.26 lb    | 1325.00 lb    0.00 lb                    | Passed - 23%   | 1.00 | D + L            |

**Design Notes:**

- \* The deflection at the cantilever for either live and/or total loads is less than 3/8" and therefore has been excluded from the deflection ratio considerations.
- \* The required bearing length for this member is the same for both with and without web stiffeners (112)
- \*

**Loading:**

| Type    | Start | End     | Source            | Maximum Load Magnitudes |            |           |      |
|---------|-------|---------|-------------------|-------------------------|------------|-----------|------|
|         |       |         |                   | Dead                    | Floor Live | Roof Live | Snow |
| Uniform | 0-00  | 6-10-06 | FC1 Floor Decking | 20 lb/ft                | 80 lb/ft   | -         | -    |

**Support Information:**

| Support | Start   | End     | Source        | Maximum Analysis Reactions |                 |           |      |
|---------|---------|---------|---------------|----------------------------|-----------------|-----------|------|
|         |         |         |               | Dead                       | Floor Live      | Roof Live | Snow |
| 1       | 10-14   | 1-02-06 | W34(i26)      | 83.00 lb                   | 333.00 lb       | -         | -    |
| 2       | 6-10-06 | 6-10-06 | 1BM4-3(i1024) | 60.00 lb                   | 250.00/-9.00 lb | -         | -    |

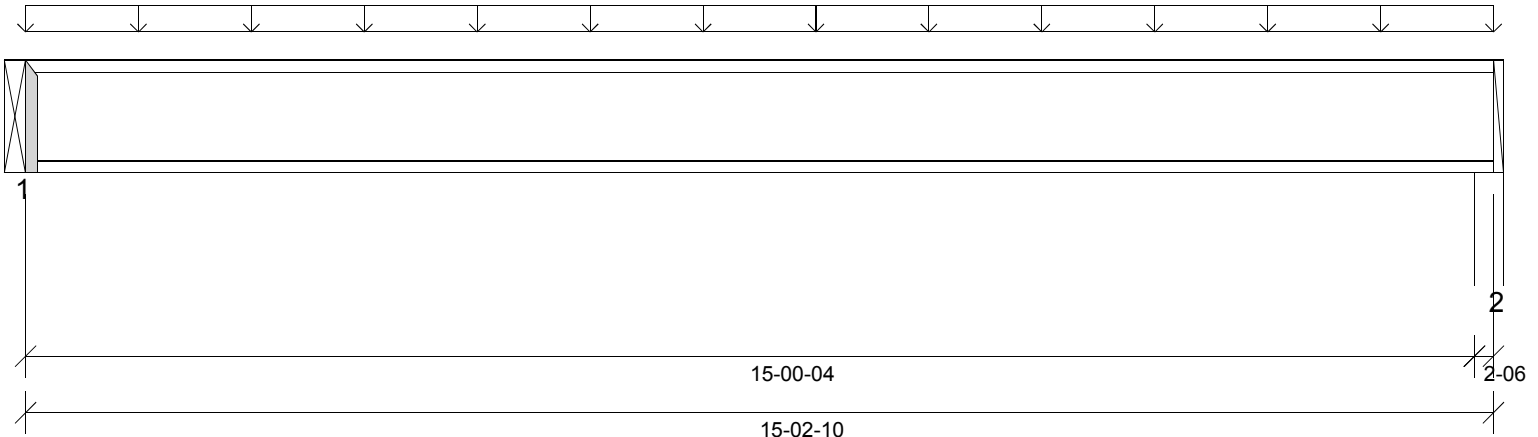
**Connector Information:**

| Support | Manufacturer | Model      | Nailing Requirements |      |        | Mill Seal Length | Other Information                         |
|---------|--------------|------------|----------------------|------|--------|------------------|---|
|         |              |            | Top                  | Face | Member |                  |   |
| 2       |              | ITS2.56/14 | -                    | -    | -      | N/A              | Connector manually specified by the user. |

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- \* A load bearing wall is supported by the I-joist at a location where the I-joist is supported by a member below. Please see manufacturer installation guidelines for requirements of blocking/squash blocks.





Graphical Illustration - Not To Scale  
Member Cut Length - 15-02-10  
MemberPitch - 0/12

**Design Information:**

|                     |         |                  |                         |                 |                         |                   |                         |
|---------------------|---------|------------------|-------------------------|-----------------|-------------------------|-------------------|-------------------------|
| Building Code:      | IRC2015 | Floor Dead Load: | 10.0 lb/ft <sup>2</sup> | Roof Dead Load: | 10.0 lb/ft <sup>2</sup> | Ground Snow Load: | 20.0 lb/ft <sup>2</sup> |
| Design Methodology: | ASD     | Floor Live Load: | 40.0 lb/ft <sup>2</sup> | Roof Live Load: | 20.0 lb/ft <sup>2</sup> |                   |                         |
|                     |         | Unbraced Length  | Top: 0-00               | Bottom:         | 15-00-04                |                   |                         |

**Design Results:**

|                       | Location | Design        | Control        | Result         | LDF        | Load Combination |      |       |
|-----------------------|----------|---------------|----------------|----------------|------------|------------------|------|-------|
| Critical Moment (Pos) | 7-06-10  | 2279.19 lb ft | 4530.03 lb ft  | Passed - 50%   | 1.00       | D + L            |      |       |
| Critical Shear        | 0-01     | 603.27 lb     | 1730.00 lb     | Passed - 35%   | 1.00       | D + L            |      |       |
| Live Load Deflection  | 7-06-10  | 0-02          | 0-12 (L/480)   | Passed - L/999 | -          | L                |      |       |
| Total Load Deflection | 7-06-10  | 0-03          | 1-00 (L/240)   | Passed - L/999 | -          | D + L            |      |       |
| Max. Reaction         | 0-00     | 615.34 lb     | Supported Mtl  | 1325.00 lb     | 0.00 lb    | Passed - 46%     | 1.00 | D + L |
|                       | 15-01-04 | 620.52 lb     | Supporting Mtl | 1387.50 lb     | 5195.35 lb | Passed - 45%     | 1.00 | D + L |

**Design Notes:**

- \* The required bearing length for this member is the same for both with and without web stiffeners (112)
- \*

**Loading:**

| Type    | Start | End      | Source            | Maximum Load Magnitudes |            |           |      |
|---------|-------|----------|-------------------|-------------------------|------------|-----------|------|
|         |       |          |                   | Dead                    | Floor Live | Roof Live | Snow |
| Uniform | 0-00  | 15-02-10 | FC1 Floor Decking | 16 lb/ft                | 64 lb/ft   | -         | -    |

**Support Information:**

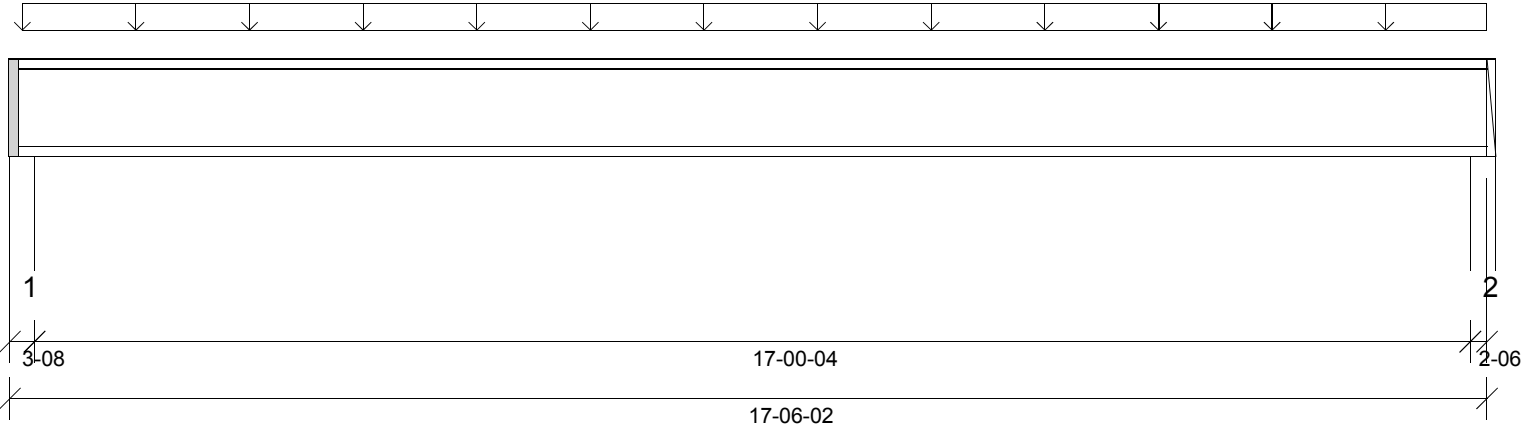
| Support | Start    | End      | Source        | Maximum Analysis Reactions |            |           |      |
|---------|----------|----------|---------------|----------------------------|------------|-----------|------|
|         |          |          |               | Dead                       | Floor Live | Roof Live | Snow |
| 1       | 0-00     | 0-00     | 1BM1-2(i1070) | 123.00 lb                  | 492.00 lb  | -         | -    |
| 2       | 15-00-04 | 15-02-10 | W24(i27)      | 124.00 lb                  | 496.00 lb  | -         | -    |

**Connector Information:**

| Support | Manufacturer | Model      | Nailing Requirements |      |        | With Seal Length | Other Information                         |
|---------|--------------|------------|----------------------|------|--------|------------------|---|
|         |              |            | Top                  | Face | Member |                  |   |
| 1       |              | ITS2.56/14 | -                    | -    | -      | N/A              | Connector manually specified by the user. |

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- \* A load bearing wall is supported by the I-joist at a location where the I-joist is supported by a member below. Please see manufacturer installation guidelines for requirements of blocking/squash blocks.



Graphical Illustration - Not To Scale  
Member Cut Length - 17-06-02  
MemberPitch - 0/12

**Design Information:**

|                         |  |   |   |
|-------------------------|--|---|---|
| Building Code: IRC2015  | Floor Dead Load: 10.0 lb/ft <sup>2</sup> | Roof Dead Load: 10.0 lb/ft <sup>2</sup> | Ground Snow Load: 20.0 lb/ft <sup>2</sup> |
| Design Methodology: ASD | Floor Live Load: 40.0 lb/ft <sup>2</sup> | Roof Live Load: 20.0 lb/ft <sup>2</sup> |   |
|                         | Unbraced Length Top: 0-00                | Bottom: 17-00-04                        |   |

**Design Results:**

|                       | Location | Design        | Control                    | Result                      | LDF          | Load Combination |       |
|-----------------------|----------|---------------|----------------------------|-----------------------------|--------------|------------------|-------|
| Critical Moment (Pos) | 8-09-10  | 2951.43 lb ft | 4530.03 lb ft              | Passed - 65%                | 1.00         | D + L            |       |
| Critical Shear        | 17-03-11 | 680.05 lb     | 1730.00 lb                 | Passed - 39%                | 1.00         | D + L            |       |
| Live Load Deflection  | 8-09-10  | 0-04          | 0-12 (L/480)               | Passed - L/931              | -            | L                |       |
| Total Load Deflection | 8-09-10  | 0-04          | 1-00 (L/240)               | Passed - L/745              | -            | D + L            |       |
| Max. Reaction         | 2-08     | 691.98 lb     | Supported Mt<br>1500.00 lb | Supporting Mt<br>7656.30 lb | Passed - 46% | 1.00             | D + L |
|                       | 17-04-12 | 703.78 lb     | 1387.50 lb                 | 5195.35 lb                  | Passed - 51% | 1.00             | D + L |

**Design Notes:**

\*

**Loading:**

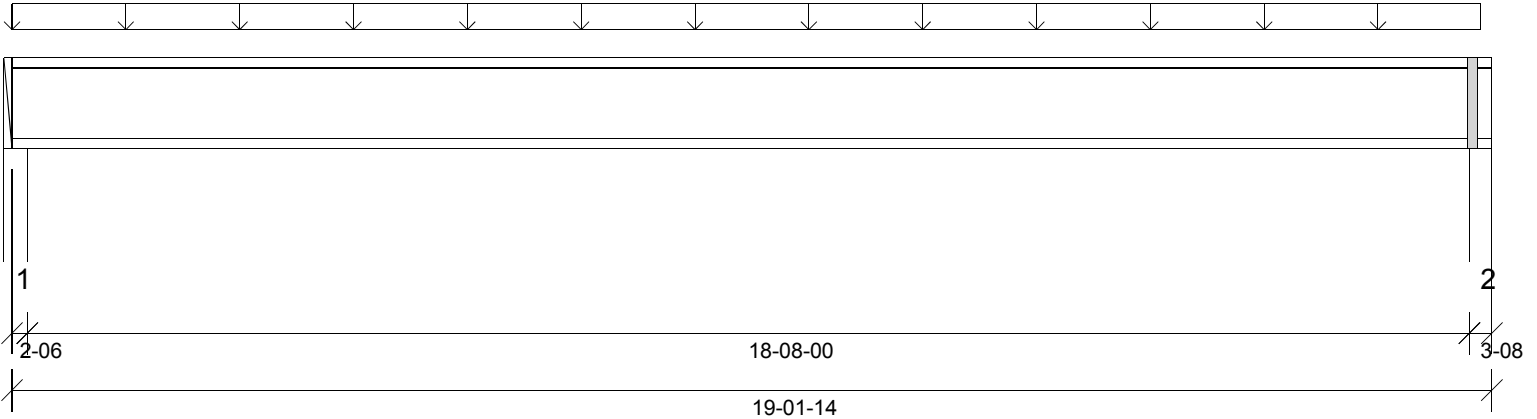
| Type    | Start | End      | Source            | Maximum Load Magnitudes |            |           |      |
|---------|-------|----------|-------------------|-------------------------|------------|-----------|------|
|         |       |          |                   | Dead                    | Floor Live | Roof Live | Snow |
| Uniform | 1-12  | 17-06-02 | FC1 Floor Decking | 16 lb/ft                | 64 lb/ft   | -         | -    |

**Support Information:**

| Support | Start    | End      | Source   | Maximum Analysis Reactions |            |           |      |
|---------|----------|----------|----------|----------------------------|------------|-----------|------|
|         |          |          |          | Dead                       | Floor Live | Roof Live | Snow |
| 1       | 0-00     | 3-08     | W40(i40) | 138.00 lb                  | 552.00 lb  | -         | -    |
| 2       | 17-03-12 | 17-06-02 | W26(i33) | 141.00 lb                  | 565.00 lb  | -         | -    |

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- \* A load bearing wall is supported by the I-joist at a location where the I-joist is supported by a member below. Please see manufacturer installation guidelines for requirements of blocking/squash blocks.



Graphical Illustration - Not To Scale  
Member Cut Length - 19-01-14  
MemberPitch - 0/12

**Design Information:**

|                         |  |   |   |
|-------------------------|--|---|---|
| Building Code: IRC2015  | Floor Dead Load: 10.0 lb/ft <sup>2</sup> | Roof Dead Load: 10.0 lb/ft <sup>2</sup> | Ground Snow Load: 20.0 lb/ft <sup>2</sup> |
| Design Methodology: ASD | Floor Live Load: 40.0 lb/ft <sup>2</sup> | Roof Live Load: 20.0 lb/ft <sup>2</sup> |   |
|                         | Unbraced Length Top: 0-00                | Bottom: 18-08-00                        |   |

**Design Results:**

|                       | Location | Design        | Control                    | Result                     | LDF          | Load Combination |       |
|-----------------------|----------|---------------|----------------------------|----------------------------|--------------|------------------|-------|
| Critical Moment (Pos) | 9-06-06  | 2955.16 lb ft | 4530.03 lb ft              | Passed - 65%               | 1.00         | D + L            |       |
| Critical Shear        | 2-07     | 621.93 lb     | 1730.00 lb                 | Passed - 36%               | 1.00         | D + L            |       |
| Live Load Deflection  | 9-06-06  | 0-04          | 0-12 (L/480)               | Passed - L/851             | -            | L                |       |
| Total Load Deflection | 9-06-06  | 0-05          | 1-00 (L/240)               | Passed - L/681             | -            | D + L            |       |
| Max. Reaction         | 1-06     | 641.72 lb     | Supported Mt<br>1387.50 lb | Supported Mt<br>5195.30 lb | Passed - 46% | 1.00             | D + L |
|                       | 18-11-06 | 631.89 lb     | 1500.00 lb                 | 7656.23 lb                 | Passed - 42% | 1.00             | D + L |

**Design Notes:**

\*

**Loading:**

| Type    | Start | End      | Source            | Maximum Load Magnitudes |            |           |      |
|---------|-------|----------|-------------------|-------------------------|------------|-----------|------|
|         |       |          |                   | Dead                    | Floor Live | Roof Live | Snow |
| Uniform | 0-00  | 19-00-02 | FC1 Floor Decking | 13 lb/ft                | 53 lb/ft   | -         | -    |

**Support Information:**

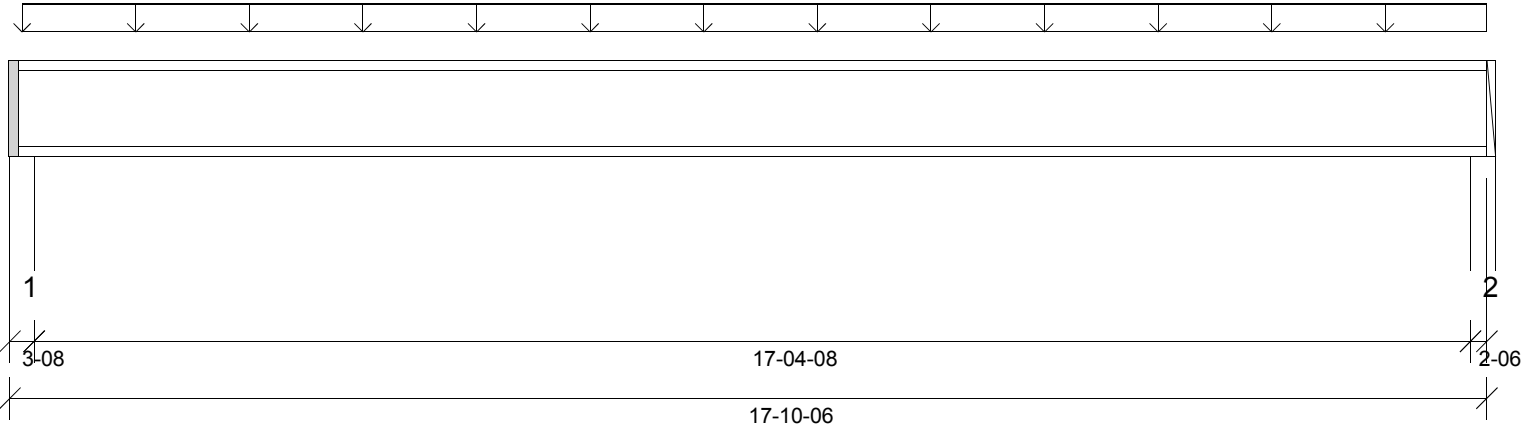
| Support | Start    | End      | Source   | Maximum Analysis Reactions |            |           |      |
|---------|----------|----------|----------|----------------------------|------------|-----------|------|
|         |          |          |          | Dead                       | Floor Live | Roof Live | Snow |
| 1       | 0-00     | 2-06     | W23(i25) | 129.00 lb                  | 515.00 lb  | -         | -    |
| 2       | 18-10-06 | 19-01-14 | W39(i39) | 126.00 lb                  | 504.00 lb  | -         | -    |

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- \* A load bearing wall is supported by the I-joist at a location where the I-joist is supported by a member below. Please see manufacturer installation guidelines for requirements of blocking/squash blocks.

- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.

- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.



Graphical Illustration - Not To Scale  
Member Cut Length - 17-10-06  
MemberPitch - 0/12

**Design Information:**

|                         |  |   |   |
|-------------------------|--|---|---|
| Building Code: IRC2015  | Floor Dead Load: 10.0 lb/ft <sup>2</sup> | Roof Dead Load: 10.0 lb/ft <sup>2</sup> | Ground Snow Load: 20.0 lb/ft <sup>2</sup> |
| Design Methodology: ASD | Floor Live Load: 40.0 lb/ft <sup>2</sup> | Roof Live Load: 20.0 lb/ft <sup>2</sup> |   |
|                         | Unbraced Length Top: 0-00                | Bottom: 17-04-08                        |   |

**Design Results:**

|                       | <u>Location</u> | <u>Design</u> | <u>Control</u>                  | <u>Result</u>  | <u>LDF</u> | <u>Load Combination</u> |
|-----------------------|-----------------|---------------|---------------------------------|----------------|------------|-------------------------|
| Critical Moment (Pos) | 8-11-12         | 3845.43 lb ft | 4530.03 lb ft                   | Passed - 85%   | 1.00       | D + L                   |
| Critical Shear        | 17-07-15        | 868.32 lb     | 1730.00 lb                      | Passed - 50%   | 1.00       | D + L                   |
| Live Load Deflection  | 8-11-12         | 0-05          | 0-12 (L/480)                    | Passed - L/724 | -          | L                       |
| Total Load Deflection | 8-11-12         | 0-06          | 1-00 (L/240)                    | Passed - L/579 | -          | D + L                   |
| Max. Reaction         | 2-08            | 883.25 lb     | <u>Supported Mt</u> 1500.00 lb  | Passed - 59%   | 1.00       | D + L                   |
|                       | 17-09-00        | 898.00 lb     | <u>Supporting Mt</u> 7656.21 lb | Passed - 65%   | 1.00       | D + L                   |
|                       |                 |               | 1387.50 lb                      | 5195.30 lb     |            |                         |

**Design Notes:**

\*

**Loading:**

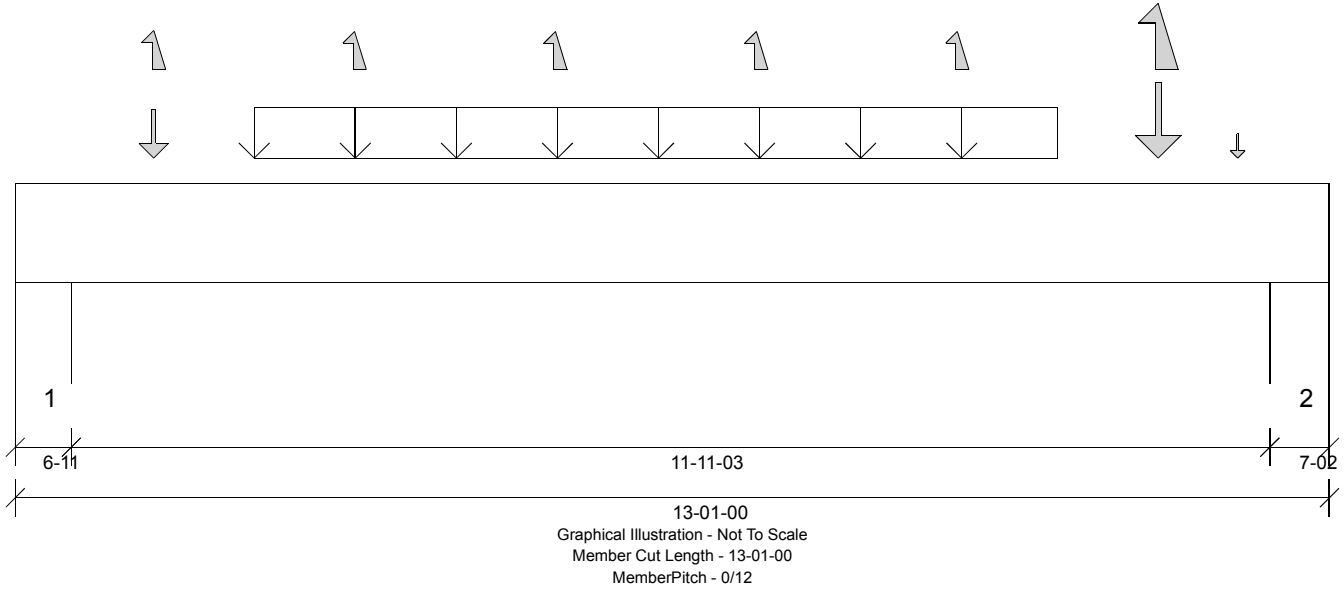
| <u>Type</u> | <u>Start</u> | <u>End</u> | <u>Source</u>     | <u>Maximum Load Magnitudes</u> |                   |                  |             |
|-------------|--------------|------------|-------------------|--------------------------------|-------------------|------------------|-------------|
|             |              |            |                   | <u>Dead</u>                    | <u>Floor Live</u> | <u>Roof Live</u> | <u>Snow</u> |
| Uniform     | 1-12         | 17-10-06   | FC1 Floor Decking | 20 lb/ft                       | 80 lb/ft          | -                | -           |

**Support Information:**

| <u>Support</u> | <u>Start</u> | <u>End</u> | <u>Source</u> | <u>Maximum Analysis Reactions</u> |                   |                  |             |
|----------------|--------------|------------|---------------|-----------------------------------|-------------------|------------------|-------------|
|                |              |            |               | <u>Dead</u>                       | <u>Floor Live</u> | <u>Roof Live</u> | <u>Snow</u> |
| 1              | 0-00         | 3-08       | W39(i39)      | 176.00 lb                         | 704.00 lb         | -                | -           |
| 2              | 17-08-00     | 17-10-06   | W29(i31)      | 180.00 lb                         | 721.00 lb         | -                | -           |

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- \* A load bearing wall is supported by the I-joist at a location where the I-joist is supported by a member below. Please see manufacturer installation guidelines for requirements of blocking/squash blocks.



**Design Information:**

|                     |         |                  |                         |                 |                         |                   |                         |
|---------------------|---------|------------------|-------------------------|-----------------|-------------------------|-------------------|-------------------------|
| Building Code:      | IRC2015 | Floor Dead Load: | 10.0 lb/ft <sup>2</sup> | Roof Dead Load: | 10.0 lb/ft <sup>2</sup> | Ground Snow Load: | 20.0 lb/ft <sup>2</sup> |
| Design Methodology: | ASD     | Floor Live Load: | 40.0 lb/ft <sup>2</sup> | Roof Live Load: | 20.0 lb/ft <sup>2</sup> |                   |                         |
|                     |         | Unbraced Length  | Top: 1-10-08            | Bottom:         | 1-10-08                 |                   |                         |

**Design Results:**

|                       | Location | Design         | Control                      | Result         | LDF  | Load Combination        |
|-----------------------|----------|----------------|------------------------------|----------------|------|-------------------------|
| Critical Moment (Pos) | 7-04-09  | 13052.28 lb ft | 24437.95 lb ft               | Passed - 53%   | 1.15 | D + Lr                  |
| Critical Moment (Neg) | 7-04-09  | -4744.21 lb ft | 34000.63 lb ft               | Passed - 14%   | 1.60 | 0.6D + 0.6W             |
| Critical Shear        | 11-06-00 | 5243.11 lb     | 9081.41 lb                   | Passed - 58%   | 1.15 | D + Lr                  |
| Live Load Deflection  | 6-07-04  | 0-04           | 0-12 (L/360)                 | Passed - L/587 | -    | 0.6W                    |
| Total Load Deflection | 6-07-00  | 0-06           | 1-00 (L/240)                 | Passed - L/385 | -    | D + 0.75(L + Lr + 0.6W) |
| Max. Reaction         |          |                | Supported Mt/ Supporting Mt/ |                |      |                         |
|                       | 5-11     | 4313.74 lb     | 17586.81 lb / 20517.95 lb    | Passed - 25%   | 1.60 | D + 0.75(L + Lr + 0.6W) |
|                       | 5-11     | -1489.57 lb    | 0.00 lb / -                  |                | 1.60 | 0.6D + 0.6W             |
|                       | 12-06-14 | 5362.32 lb     | 18673.47 lb / 21785.72 lb    | Passed - 29%   | 1.60 | D + 0.75(L + Lr + 0.6W) |
|                       | 12-06-14 | -1991.29 lb    | 0.00 lb / -                  |                | 1.60 | 0.6D + 0.6W             |

**Design Notes:**

- \* Member design assumed proper ply to ply connection by others. Fastener spacing along length of member must not exceed 4 times depth of member. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.

**Loading:**

| Type        | Start    | End      | Source        | Maximum Load Magnitudes |            |                  |           |
|-------------|----------|----------|---------------|-------------------------|------------|------------------|-----------|
|             |          |          |               | Dead                    | Floor Live | Roof Live        | Snow      |
| Self Weight | 0-00     | 13-01-00 | Self Weight   | 12 lb/ft                | -          | -                | -         |
| Uniform     | 2-04-09  | 10-04-09 | Smoothed Load | 327 lb/ft               | -          | 321 lb/ft        | 135 lb/ft |
| Point       | 1-04-09  | 1-04-09  | A3(c01)       | 673.00 lb               | -          | 679.00 lb        | 284.00 lb |
| Point       | 3-04-09  | 3-04-09  | A3(c02)       | -                       | -          | -                | -         |
| Point       | 5-04-09  | 5-04-09  | A4(c01)       | -                       | -          | -0.80 lb         | -         |
| Point       | 7-04-09  | 7-04-09  | A4(c02)       | -                       | -          | -0.70 lb         | -         |
| Point       | 9-04-09  | 9-04-09  | A4(c03)       | -                       | -          | -0.70 lb         | -         |
| Point       | 11-04-09 | 11-04-09 | A4(c04)       | 1048.00 lb              | -          | 1428.00/-2.00 lb | 599.00 lb |
| Point       | 12-02-01 | 12-02-01 | A5A(c01)      | 333.00 lb               | -          | -                | -         |

**Support Information:**

| Support | Start    | End      | Source    | Maximum Analysis Reactions |            |                  |            |
|---------|----------|----------|-----------|----------------------------|------------|------------------|------------|
|         |          |          |           | Dead                       | Floor Live | Roof Live        | Snow       |
| 1       | 0-00     | 6-11     | -         | 2157.00 lb                 | -          | 2085.00/-1.00 lb | 874.00 lb  |
| ++>     | 2-02     | 2-02     | W49(i343) | 1360.00 lb                 | -          | 1315.00/-1.00 lb | 551.00 lb  |
| ++>     | 6-00     | 6-00     | W50(i333) | 797.00 lb                  | -          | 770.00 lb        | 323.00 lb  |
| 2       | 12-05-14 | 13-01-00 | -         | 2673.00 lb                 | -          | 2590.00/-3.00 lb | 1086.00 lb |
| ++>     | 12-06-10 | 12-06-10 | W52(i339) | 930.00 lb                  | -          | 901.00/-1.00 lb  | 378.00 lb  |
| ++>     | 12-10-11 | 12-10-11 | W53(i345) | 1743.00 lb                 | -          | 1689.00/-2.00 lb | 708.00 lb  |

**Errors, Warnings & Notes:**

- \* CAUTION: The maximum net analysis reaction exceeds the user-defined maximum uplift value at one or more supports.
- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.