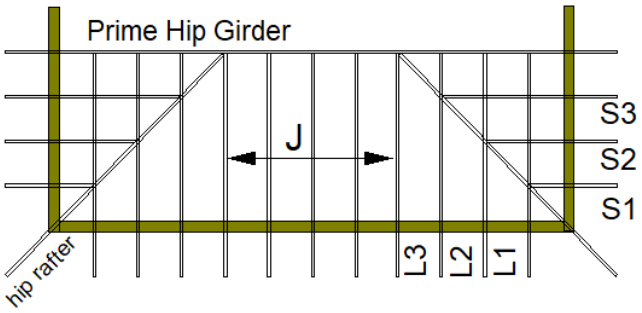
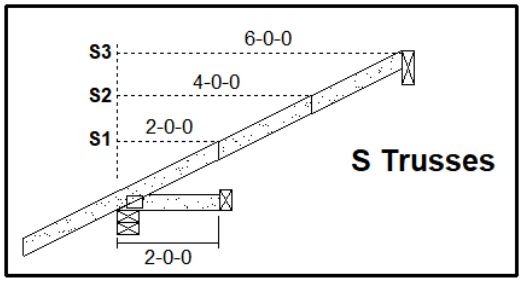
# STANDARD DETAIL MSD2020-J

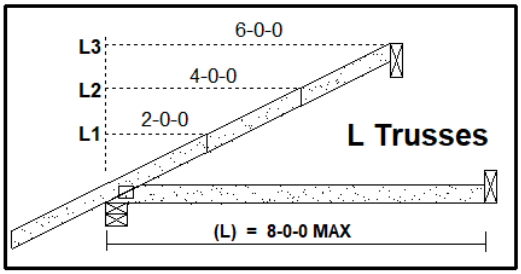
Issued: **APRIL 19, 2025**
Expiry: **APRIL 30, 2026**

## STANDARD HIP END FRAMING

### PLAN VIEW



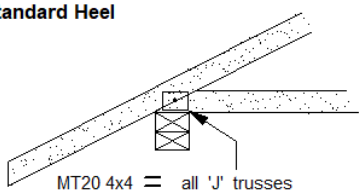



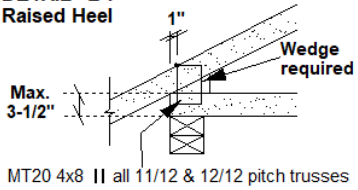

**Specified Load Rating:**

| | |
|---|---|
| Top chord Live: | 51.0 PSF or less |
| Top chord Dead: | 6.0 PSF or less |
| Bottom chord Live: | 0.0 PSF |
| Bottom chord Dead: | 7.3 PSF or less |

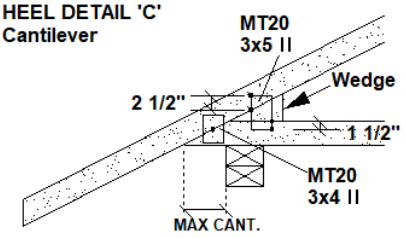
**HEEL DETAIL 'A'**
**Standard Heel**




**DETAIL "B":**
**Raised Heel**



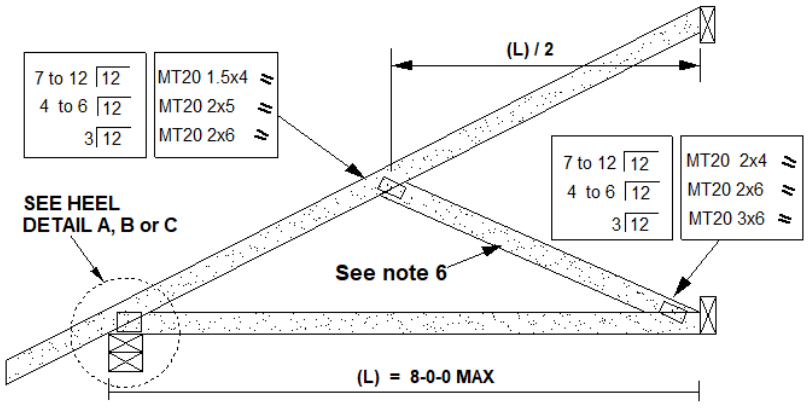

**HEEL DETAIL 'C'**
**Cantilever**




**CANTILEVER DETAIL "C"**

| SLOPE | MAX CANT. | WEDGE PLATE | WEDGE SIZE |
|---|---|---|---|
| 3/12 | 17" | 3 X 5 | 2 X 3 |
| 4/12 | 14" | 3 X 5 | 2 X 3 |
| 5/12 | 12" | 3 X 5 | 2 X 4 |
| 6/12 | 10" | 3 X 5 | 2 X 4 |
| 7/12 | 9" | 3 X 5 | 2 X 6 |
| 8/12 | 8.5" | 3 X 5 | 2 X 6 |
| 9/12 | 8" | 3 X 5 | 2 X 6 |
| 10/12 | 7.5" | 3 X 5 | 2 X 6 |

### J Trusses

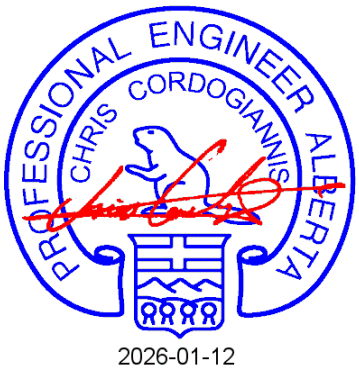



**PERMIT TO PRACTICE**
**MITEK CANADA INC.**
Signature _____
Date 2026-01-12
**PERMIT NUMBER: P 3837**
The Association of Professional Engineers and Geoscientists of Alberta
**RM APEGA ID: 86553**

**NOTES:**

1. This detail is valid only for projects complying with **PART 9 NBCC 2020** that do not require a wind analysis to be incorporated into the design of the trusses.
2. Overhang length shall not exceed 24 inches.
3. All lumber shall be 2x4 SPF (or D-Fir) DRY and of No. 2 grade or better.
4. All plates specified are MITEK MT20, pressed into both faces of each truss. Heel plates of all trusses shall conform to heel details 'A', 'B' or 'C'.
5. Diagonal hip rafter design shall conform to NBCC 2020 9.23.14.6 (minimum 2x6 SPF No.2)
6. For 6.0 ft. or less J-truss span, diagonal web on truss 'J" is optional. Girder design must reflect choice of partial jack ('J' with diagonal web) or open jack ('J' without diagonal web)
7. All connections shall be specified as per MITEK standard detail *'MSD2020-H: Toe-Nail Capacity Details'* (contact the truss supplier for truss end reactions at each connection point. Hangers may be required in high-snow regions).
8. MSD2020-J is a complementary detail for MiTek product lines and has not been prepared for a specific project. Decision on applicability of this detail to a specific project is the responsibility of the building designer of record.

APEGA
Permit No. P3837




2026-01-12