

**1 ROOF PLAN**  
SCALE: 1:75

**WOOD FRAMING:**

- FRAMING LUMBER SHALL BE GRADED IN ACCORDANCE WITH NATIONAL LUMBER GRADES AUTHORITY "STANDARD GRADING RULES FOR CANADIAN LUMBER-2014".
- MINIMUM GRADES TO BE AS FOLLOWS:
 

COMPONENT	GRADE
BUILT UP BEAMS	S-P-F NO.2
FLOOR JOISTS	S-P-F NO.2
ROOF JOISTS/RAFTERS	S-P-F NO.2
INTELS	S-P-F NO.2
STUDS AND PLATES (L/N)	S-P-F NO.2
- LUMBER MOISTURE CONTENT NOT TO EXCEED 19%.
- ALL SHEATHING TO BE EXTERIOR GRADE & SHALL CONFORM TO CANCSA 0325-16 "CONSTRUCTION SHEATHING"
- MINIMUM FRAMING REQUIREMENTS TO BE IN ACCORDANCE WITH PART 9 "WOOD FRAME CONSTRUCTION" SECTION OF THE MANITOBA BUILDING CODE OF CANADA-2010.
- CUT LUMBER NEAT AND SQUARE PROVIDING FULL SURFACE CONTACT WITH ADJOINING MEMBERS.
- PROVIDE METAL HANGERS AT ALL FLUSH CONNECTIONS AND AS DETAILED.
- CARPENTRY CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLY AND ERECTION OF TEMPORARY GUYING AND BRACING TO ENSURE STABILITY OF THE STRUCTURE AS A WHOLE. THESE SHALL REMAIN IN PLACE UNTIL ALL SHEATHING AND PERMANENT BRACING IS INSTALLED.
- PROVIDE MINIMUM 48 HOURS NOTICE FOR FRAMING INSPECTION PRIOR TO CLOSING IN.
- PROVIDE CONTINUOUS HORIZONTAL SOLID BLOCKING @ MAX 1220mm VERTICALLY.
- ALL WALL & ROOF SHEATHING TO BE SECURED AS FOLLOWS
  - PANEL EDGES - 76mm LG. NAILS @ 150mm O/C
  - INTERMEDIATE SUPPORTS & BLOCKING - 76mm LG NAILS @ 250mm O/C
- MINIMUM INTELS FOR STUD BEARING-WALLS, UNLESS OTHERWISE NOTED ON DRAWINGS:
  - OPENINGS UP TO 1020mm USE 2PLY 2x8 SPF
  - OPENINGS UP TO 1525mm USE 2 PLY 2x10 SPF

LOCATION	THICKNESS/GRADE	INSTALLATION
FLOORS	19mm O.S.B.	GLUE & SCREW
WALLS	13mm O.S.B.	NAIL
ROOF	13mm O.S.B.	NAIL

**WOOD ROOF TRUSSES:**

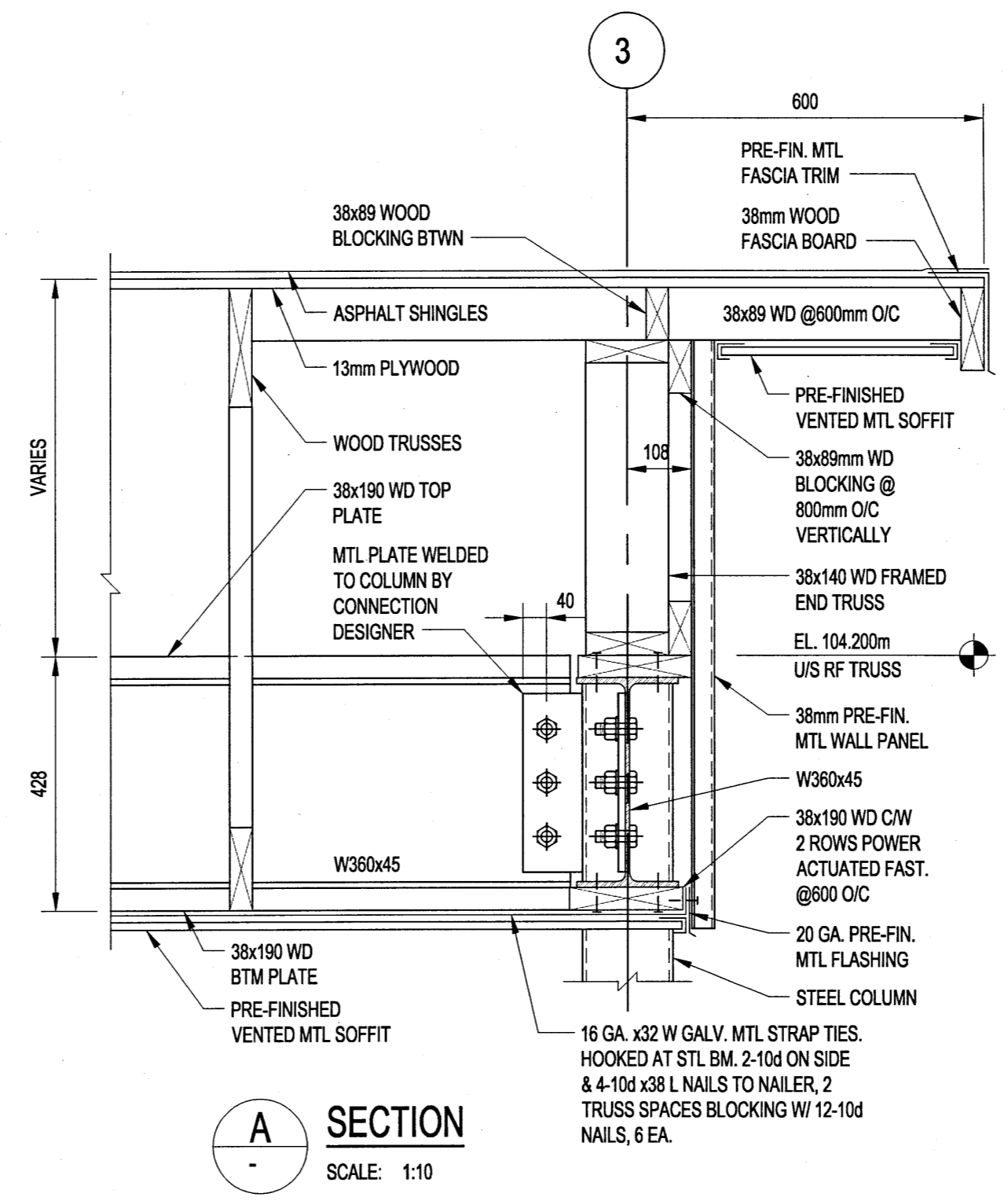
- WOOD TRUSSES SHALL BE DESIGNED BY OTHERS FOR LOADS SHOWN ON DRAWINGS. THE SIZE, WEIGHT AND LOCATION OF ALL MECHANICAL EQUIPMENT SHALL BE CO-ORDINATED WITH THE MECHANICAL CONTRACTOR.
- SHOP DRAWINGS INDICATING SIZES, LENGTHS, SLOPES, SPACING, CAMBER, LOADING CRITERIA, CONNECTIONS, ETC. SHALL BE SUBMITTED BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- MANUFACTURE ALL TRUSSES WITH CAMBER TO OFFSET DEAD LOAD DEFLECTION.
- DEFLECTION DUE TO LIVE LOADS SHALL NOT EXCEED SPAN/360.
- REDUCE TRUSS SPACING TO 400mm MAXIMUM AS REQUIRED AT BUILT-UP SNOW LOAD AREAS TO PREVENT OVERSTRESSING OF ROOF SHEATHING.
- ALL FLUSH FRAMED TRUSSES SHALL BE SUPPORTED WITH METAL HANGERS. ALL HANGERS AND TRUSS TO TRUSS CONNECTIONS TO BE DESIGNED BY TRUSS MANUFACTURER
- ALL ROOF TRUSSES SHALL BE TIED TO SUPPORTING STRUCTURE WITH 18 GA. GALV. "HURRICANE" TIES AT EACH END IN ADDITION TO NORMAL TOE-NAILING.
- VERTICAL SWAY BRACING AND HORIZONTAL CROSS BRACING SHALL BE INSTALLED AS PER THE TRUSS SUPPLIERS REQUIREMENTS.
- TRUSSES SHALL NOT BE FIELD MODIFIED IN ANY WAY WITHOUT WRITTEN CONSENT OF THE MANUFACTURER AND THE DESIGN ENGINEER.
- SHIP, STORE, HANDLE AND INSTALL PREFABRICATED WOOD TRUSSES AND RELATED COMPONENTS IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

**LEGEND:**

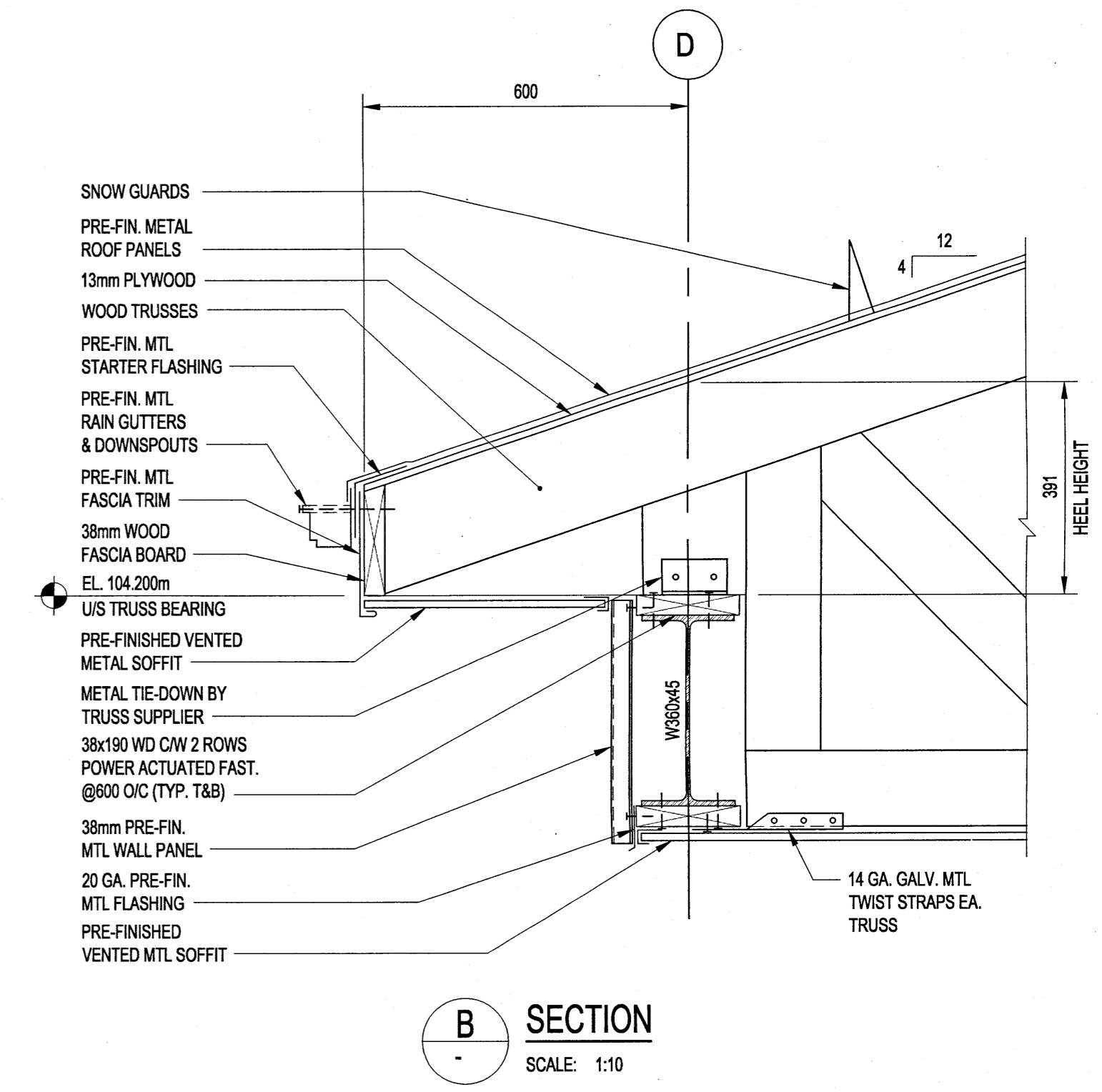
- WC-1 2 PLY 38x140 WD BUILT UP COLUMN
- HD-1 SIMPSON HDJUS-SD52.5 HOLD-DOWN ANCHOR. PROVIDE MINIMUM WC-1 @ EACH LOCATION.

**COLUMN SCHEDULE**

MARK	DESCRIPTION
C-1	HSS 152x152x6.4 CW BASE PL 19x300x300 4-190 x 450 LG ANCH BOLTS 76 HOOK & 100 THREADED TOP 2 NUTS & WASH PER BOLT 25mm NON-SHRINK GROUT PAD
C-2	HSS 102x102x6.4 CW BASE PL 410x110x19 4-190 x 450 LG ANCH BOLTS 76 HOOK & 100 THREADED TOP 2 NUTS & WASH PER BOLT FILL POCKET WITH NON-SHRINK GROUT



**A SECTION**  
SCALE: 1:10



**B SECTION**  
SCALE: 1:10

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**LOCATION APPROVED UNDERGROUND STRUCTURES**

SUPV. U/G STRUCTURES COMMITTEE	DATE
NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	

B.M. ELEV.	DATE	BY
0	ISSUED FOR TENDER	17/03/29
	NO. REVISIONS	DATE

**KGS GROUP CONSULTING ENGINEERS**

DESIGNED BY: DJP  
DRAWN BY: JAR

HOR. SCALE: AS NOTED  
VERTICAL: AS NOTED

DATE: 16/08/11

CHECKED BY: *CNS*  
APPROVED BY: *JJP*

RELEASED FOR CONSTRUCTION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ENGINEER'S SEAL

CONSULTANT DRAWING NO. 16-0107-010

**THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT**

PROJECT TITLE: 4R WINNIPEG DEPOT EAST WINNIPEG COMMUNITY RESOURCE RECOVERY CENTRE

HHW BUILDING ROOF FRAMING PLAN

SHEET 18 OF 41  
COMPUTER FILE NAME 16-0107-010  
CONSULTANT DRAWING NUMBER S02