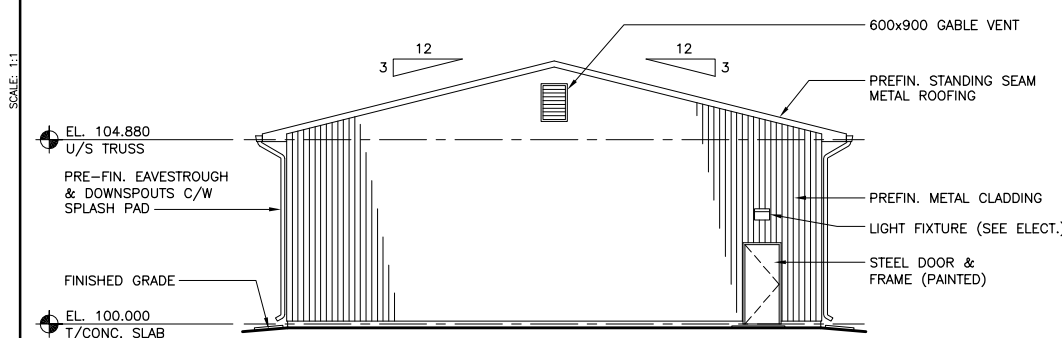
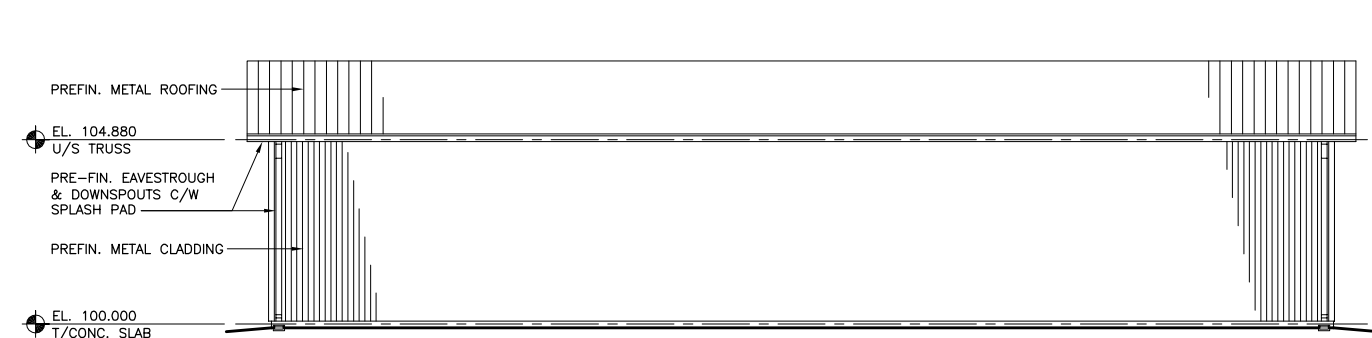


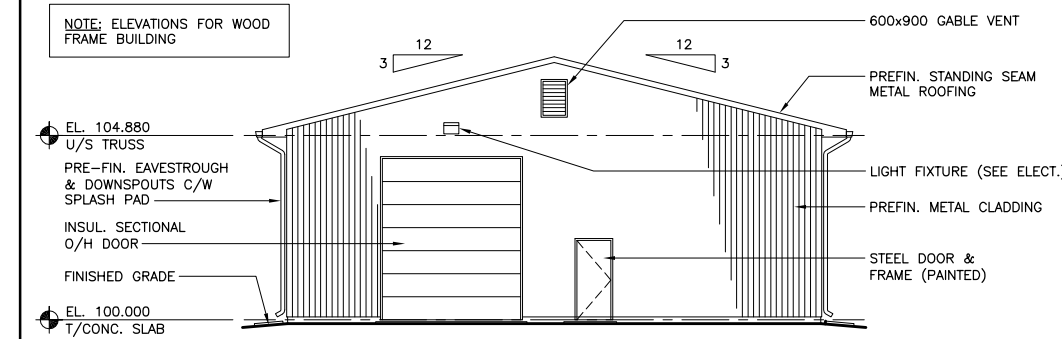
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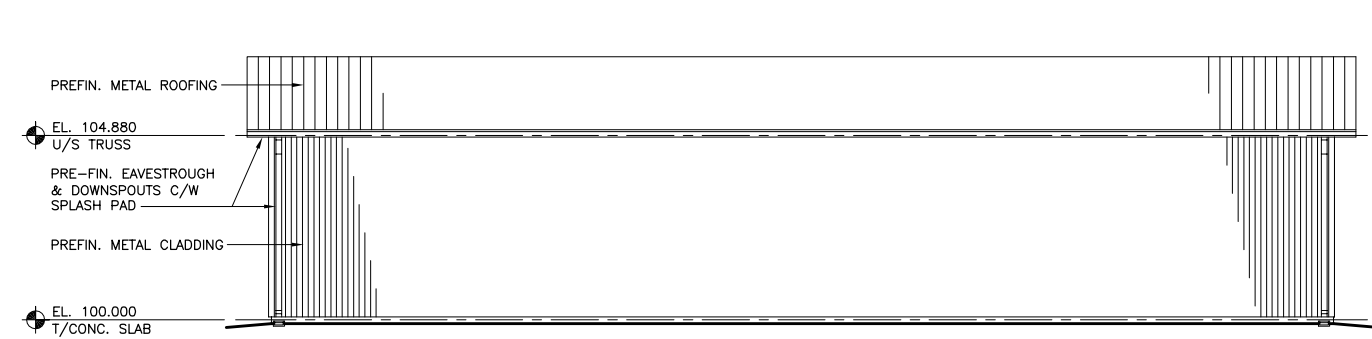
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SCALE: 1:100



**EAST ELEVATION**  
SCALE: 1:100



**SOUTH ELEVATION**  
SCALE: 1:100



**WEST ELEVATION**  
SCALE: 1:100

NOTE: ELEVATIONS FOR WOOD FRAME BUILDING

**GYPSON SHEATHING (EXTERIOR)**

1. SHEATHING USED ON THE EXTERIOR OF THE BUILDING WALL FRAMING ALONG THE SOUTH AND EAST SIDES (REQUIRING 1 HOUR FIRE-RATING) SHALL BE 16mm THICK TYPE "X" G-P GYPSUM "DENS-GLASS GOLD" SHEATHING.
2. INSTALL ALL SHEATHING BOARD SQUARE, PLUMB AND LEVEL, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, THE NATIONAL BUILDING CODE AND GOOD STANDARD PRACTICE.
3. FASTEN BOARD TO STEEL FRAMING USING APPROPRIATE DRYWALL SCREWS AS RECOMMENDED BY MANUFACTURER. USE CORROSION-RESISTANT SCREWS FOR ALL EXTERIOR APPLICATIONS.
4. FIRE-RATED ASSEMBLIES SHALL BE CONTINUOUS AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH NOTED U.L. FILE NO. (UL W424) REQUIREMENTS AND THE NATIONAL BUILDING CODE OF CANADA (LATEST).

**STANDING SEAM METAL ROOFING**

1. STANDING SEAM METAL ROOFING SHALL BE A COMPLETE SYSTEM AND BE THE PRODUCT OF A SINGLE MANUFACTURER/SUPPLIER. SYSTEM SHALL INCLUDE ALL ROOFING PANELS, FASTENING CLIPS, TRIM, FASCIAS, GUTTERS, EQUIPMENT CURBS, BACKING ANGLES, CLOSURES, SEALANTS, FASTENERS, ETC.. SYSTEM TO BE TSR PANEL SERIES 1000 BY VICWEST OR APPROVED EQUAL IN ACCORDANCE WITH B6.
2. STANDING SEAM METAL ROOFING PANELS SHALL BE FULL LENGTH 600mm WIDE FACTORY FORMED INTERLOCKING PANELS SUPPLIED WITH JOINT SEALANT. PANELS ARE TO BE 0.76mm (22 GA.) CORE THICKNESS GALVANIZED TO G90 AND PREFINISHED WITH COLORITE HMP FINISHING SYSTEM. COLOUR TO BE SELECTED BY CONTRACT ADMINISTRATOR FROM MANUFACTURERS STANDARD COLOURS.
3. HANDLING AND INSTALLATION OF ALL COMPONENTS TO BE DONE BY QUALIFIED AND EXPERIENCED INSTALLERS IN STRICT CONFORMANCE WITH MANUFACTURER'S DRAWINGS AND WRITTEN INSTRUCTIONS TO PROVIDE A COMPLETELY FINISHED, WEATHERTIGHT ASSEMBLY.

**METAL CLADDING**

1. METAL CLADDING WALL SYSTEM SHALL CONSIST OF PREFINISHED METAL CLADDING FASTENED OVER METAL FURRING CHANNELS AS DETAILED.
2. METAL CLADDING TO BE PREFORMED PREFINISHED GALVANIZED SHEET STEEL TO G90 IN ACCORDANCE TO ASTM A-446. BASE METAL TO BE 0.61mm (24 GA.) THICK, 50 KSI STRESS GRADE. CLADDING FINISH TO BE THE COLORITE HMP SYSTEM. COLOUR TO BE SELECTED BY CONTRACT ADMINISTRATOR FROM MANUFACTURERS STANDARD COLOURS. CLADDING TO BE DIAMOND RIB AS MANUFACTURED BY VICWEST OR APPROVED EQUAL IN ACCORDANCE WITH B6.
3. FLASHING AND OTHER ASSOCIATED TRIM TO BE SHOP/SITE FORMED AS APPROPRIATE. MATERIAL, THICKNESS, FINISH AND COLOUR TO MATCH CLADDING. CONCEALED MEMBERS MAY BE GALVANIZED FINISH. ALL ACCESSORIES SHALL BE COMPATIBLE WITH CLADDING PROFILE SELECTED AND SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
4. FASTENERS TO BE AS PER CLADDING MANUFACTURER'S RECOMMENDATION AND SHALL BE SELF-DRILLING WITH INTEGRAL WASHER/HEAD AND EPDM WASHER. EXPOSED FASTENERS TO BE FACTORY PAINTED TO MATCH CLADDING COLOUR.
5. SEALANT TO BE AS PER CLADDING MANUFACTURER'S RECOMMENDATION AND USED AS APPROPRIATE TO PROVIDE COMPLETE WEATHER SEAL. APPLY IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. JOINTS TO BE FREE OF OIL, GREASE, SNOW, ICE, OR ANY FOREIGN MATTER IMPEDING ADHESION.

**NOTES:**

**STEEL DOORS AND FRAMES**

1. FABRICATE STEEL DOORS AND FRAMES IN ACCORDANCE WITH THE CANADIAN STEEL DOOR AND FRAME MANUFACTURER'S ASSOCIATION "CANADIAN MANUFACTURING SPECIFICATIONS FOR STEEL DOORS AND FRAMES 1982".
2. DOORS TO BE OF 1.52mm (16 GA.) ZINC WIPED SHEET STEEL, 44.5mm THICK, WELDED TYPE REINFORCED FOR SPECIFIED HARDWARE. SEE DOOR SCHEDULE FOR ALL DOOR SIZES AND HARDWARE. INTERIOR DOOR CORES TO BE RESIN IMPREGNATED KRAFT HONEYCOMB (U/N). EXTERIOR DOORS TO BE FILLED WITH INJECTED POLYURETHANE FOAM INSULATION AND SHALL HAVE VINYL CAPS. FIRE-RATED DOORS SHALL BEAR APPROPRIATE U.L.C. LABEL.
3. FRAMES TO BE OF 1.52mm (16 GA.) ZINC WIPED SHEET STEEL, WELDED TYPE, REINFORCED FOR SPECIFIED HARDWARE AND CONFIGURATION. PROVIDE 3 NEOPRENE BUMPERS PER DOOR LEAF. EXTERIOR FRAMES TO BE THERMALLY BROKEN. FIRE-RATED FRAMES SHALL BEAR APPROPRIATE U.L.C. LABEL.
4. INSTALL ALL FRAMES/DOORS PLUMB AND SQUARE. PACK EXTERIOR FRAMES WITH BATT INSULATION. EXTERIOR FRAMES SHALL BE SEALED TO AIR/VAPOUR BARRIER ON INTERIOR SIDE AND TO BUILDING CLADDING ON EXTERIOR SIDE. INSTALL ALL FIRE-RATED FRAMES/DOORS TO N.F.P.A. 80.

**STEEL DOOR HARDWARE**

- DOOR NO. 101 (900x2150)**  
 -1 1/2 PR. 102x114 FBB199 NRP C26D HINGES  
 -D53PD RHO 626 LOCKSET, 127mm BACKSET  
 -4040 SUPER SMOOTHIE LCN CLOSER  
 -CT-9 100mm EXTRUDED ALUM. KNC THRESHOLD  
 -W-15 KNC WEATHERSTRIP  
 -W-24S KNC SWEEP
- DOOR NO. 102 (900x2150)**  
 -1 1/2 PR. 102x114 FBB199 NRP C26D HINGES  
 -D12D RHO 626 LOCKSET, 127mm BACKSET  
 -4040 SUPER SMOOTHIE LCN CLOSER  
 -CT-9 100mm EXTRUDED ALUM. KNC THRESHOLD  
 -W-15 KNC WEATHERSTRIP  
 -W-24S KNC SWEEP
- DOOR NO. 103 & 104 (900x2150)**  
 -1 HOUR FIRE-RATED DOOR  
 -1 1/2 PR. 102x114 FBB179 C26D HINGES  
 -D10S RHO 626 PASSAGE SET, 127mm BACKSET  
 -4040 SUPER SMOOTHIE LCN CLOSER  
 -HB1123X FLOOR STOP

**SECTIONAL OVERHEAD DOOR**

1. SECTIONAL OVERHEAD DOORS TO BE UNINSULATED PREFINISHED STEEL CLAD UNIT. ACCEPTABLE PRODUCT: SECTIONAL STEEL DOOR SERIES 422 BY OVERHEAD DOOR CORPORATION OR EQUIVALENT.
2. PANELS TO HAVE A NOMINAL THICKNESS OF 50mm, CLAD WITH 20 GA. PREFINISHED GALVANIZED STEEL. END STILES TO BE 16 GA. GALV. STEEL. HORIZONTAL PANEL JOINTS TO BE SHIP-LAP DESIGN WITH ROUNDED WATER CHANNELS FOR POSITIVE DRAINAGE TO EXTERIOR. PANEL FINISH TO BE 2 COAT BAKED-ON POLYESTER, WHITE, INTERIOR AND EXTERIOR.
3. LOCK TO BE INSIDE MOUNTED, ADJUSTABLE KEEPER, SPRING ACTIVATED LATCH BAR WITH FEATURE TO KEEP IN LOCKED OR RETRACTED POSITION, ELECTRONICALLY INTERLOCKED WITH OPENER.
4. SEAL ALL JOINTS WITH CONTINUOUS EPDM TYPE WEATHERSTRIP: BULB TYPE STRIP ALONG BOTTOM AND FLAP TYPE ALONG JAMBS AND HEAD.
5. HINGES, AND OTHER HARDWARE TO BE HOT-DIPPED GALVANIZED STEEL. BALL BEARING ROLLERS TO BE FULL FLOATING WITH HARDENED STEEL RACES AND SHALL BE SIZED TO SUIT DESIGN LIMITATIONS OF DOOR. BALANCE DOOR WITH 100,000 CYCLE TORSION SPRING AND PUSHER SPRINGS TO MAINTAIN TENSION ON CALBES. 3" TRACK.

**ELECTRIC OVERHEAD DOOR OPERATORS**

1. WALL MOUNTED HEAVY DUTY V-BELT DRIVE JACKSHAFT TYPE ELECTRIC DOOR OPERATOR WITH A SELF-ENGAGING HOIST AND MECHANICAL BRAKE, C/W ALL NECESSARY DRIVING HARDWARE AND CONTROL ACCESSORIES REQUIRED FOR PROPER OPERATION.
2. MOTOR TO BE RATED FOR APPLICATION COMPLETE WITH HIGH STARTING TORQUE, CONTINUOUS DUTY MOTOR, ODP, C/W A CURRENT SENSING DEVICE WITH MANUAL RESET. ALL ELECTRICAL COMPONENTS TO BE IN A NEMA 1 ENCLOSURE.
3. CONTROL STATION TO BE STANDARD, THREE BUTTON OPEN-CLOSE-STOP, CONTROL FOR ELECTRIC OPERATOR; 24 VOLT CIRCUIT, SURFACE MOUNTED; HOLD OPEN TIMER. MOUNT BESIDE OVERHEAD DOORS.
4. EMERGENCY OPERATION: BY A SELF-ENGAGING HOIST (REQUIRING NO FLOOR DISCONNECT TO OPERATE) FOR MANUAL LIMIT OPERATION. OPERATOR TO BE EQUIPPED WITH LIMIT SWITCHES. LIMIT SWITCHES TO REMAIN IN TIME WHEN EMERGENCY OPERATION OR AFTER THE MOTOR HAS BEEN REMOVED.
5. CONTROL AND SAFETY ACCESSORIES TO BE SUPPLIED FOR EACH OVERHEAD DOOR: ONE THREE-PUSH-BUTTON STATION, PNEUMATIC SENSING EDGE AND PHOTO SAFETY SENSOR.
6. ACTIVATION OF SAFETY DEVICES WILL REVERSE THE DOOR DURING CLOSING. SEQUENCE TO BE ADJUSTABLE IN THE FIELD TO MOMENTARY CONTACT TO OPEN/CLOSE/STOP.
7. ACCEPTABLE PRODUCT: MANARAS

**WOOD FRAMING**

1. SEE "WOOD ROOF TRUSSES" NOTES.
2. MINIMUM FRAMING REQUIREMENTS TO BE IN ACCORDANCE WITH PART 9 "WOOD FRAME CONSTRUCTION" SECTION OF THE MANITOBA BUILDING CODE.
3. CUT LUMBER NEAT AND SQUARE PROVIDING FULL SURFACE CONTACT WITH ADJOINING MEMBERS.
4. 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.
5. PROVIDE MINIMUM 48 HOURS NOTICE FOR FRAMING INSPECTION PRIOR TO CLOSING IN.

**LIGHTWEIGHT STEEL FRAMING (LOADBEARING)**

1. LIGHTWEIGHT STEEL FRAMING SYSTEM COMPONENTS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CAN/CSA-S136 (LATEST) "COLD FORMED STRUCTURAL STEEL MEMBERS", AND RECOMMENDATIONS OF CSSBI.
2. SHEET STEEL FRAMING MEMBERS SHALL BE FABRICATED FROM COLD FORMED STEEL CONFORMING TO ASTM A446 STANDARD HOT-DIPPED GALVANIZED TO Z275. MINIMUM GRADES (YIELD POINT) TO BE 50,000 PSI FOR MATERIAL 1.52mm (16 GAUGE) AND THICKER, AND 33,000 PSI FOR MATERIAL 1.22mm (18 GAUGE) AND THINNER.
3. ALL FRAMING MEMBERS, TRACKS, BRIDGING, AND RELATED COMPONENTS, ETC. SHALL BE THE PRODUCTS OF A SINGLE MANUFACTURER. COMPONENTS TO BE BY BAILEY/MANTANE OR APPROVED EQUAL IN ACCORDANCE WITH B6.
4. STUDS SHALL BE TO DEPTH AND THICKNESS NOTED ON DRAWINGS. STUD WEBS SHALL BE PERFORATED.
5. DEPTH AND THICKNESS OF TRACK, SOLID BRIDGING/BLOCKING, ETC., SHALL MATCH FRAMING MEMBERS UNLESS OTHERWISE NOTED. WEBS SHALL BE UNPERFORATED (SOLID).
6. ALL FRAMING SHALL BE STORED, HANDLED, WORKED, AND ASSEMBLED AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS. FASTEN COMPONENTS TOGETHER USING SCREWS OR WELDING, AS PER MANUFACTURER'S RECOMMENDATIONS. INSTALL ALL FRAMING PLUMB, LEVEL, AND SQUARE. PROVIDE APPROPRIATE BLOCKING/BACKING AS REQUIRED BY OTHER TRADES.
7. INSTALL BOTTOM WALL TRACK OF PERIMETER BUILDING WALLS ON COMPRESSIBLE FOAM GASKET OR 2 BEADS OF SEALANT.

**WOOD ROOF TRUSSES**

1. WOOD TRUSSES SHALL BE DESIGNED BY OTHERS. THE SIZE, WEIGHT AND LOCATION OF ALL MECHANICAL EQUIPMENT SHALL BE CO-ORDINATED WITH THE MECHANICAL SUBCONTRACTOR.
2. 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.
3. MANUFACTURE ALL TRUSSES WITH CAMBER TO OFFSET DEAD LOAD DEFLECTION.
4. DEFLECTION DUE TO LIVE LOADS SHALL NOT EXCEED SPAN/360.
5. ALL FLUSH FRAMED TRUSSES SHALL BE SUPPORTED WITH METAL HANGERS. ALL HANGERS AND TRUSS TO TRUSS CONNECTIONS TO BE DESIGNED BY TRUSS MANUFACTURER
6. ALL ROOF TRUSSES SHALL BE TIED TO SUPPORTING STRUCTURE WITH 18 GA. GALV. "HURRICANE" TIES AT EACH END IN ADDITION TO NORMAL TOE-NAILING.
7. TRUSSES SHALL NOT BE FIELD MODIFIED IN ANY WAY WITHOUT WRITTEN CONSENT OF THE MANUFACTURER AND THE CONTRACT ADMINISTRATOR.
8. SHIP, STORE, HANDLE AND INSTALL PREFABRICATED WOOD TRUSSES AND RELATED COMPONENTS IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

**VAPOUR/AIR BARRIER**

1. VAPOUR/AIR BARRIER AROUND ENTIRE HEATED AREA OF BUILDING SHALL CONSIST OF 6 MIL POLYETHYLENE SHEET IN WALLS, CEILING, AND BELOW CONCRETE FLOOR SLAB. BARRIER SHALL ALSO INCLUDE ALL OTHER TRANSITION MATERIALS AND CLOSURES AS NOTED/DETAILED.
2. VAPOUR/AIR BARRIER SHALL COMPLETELY SEPARATE THE HEATED INTERIOR OF THE BUILDING FROM UNHEATED EXTERIOR. BARRIER SHALL BE CONTINUOUS WITH ALL INTERFACES BETWEEN DISSIMILAR COMPONENTS LAPPED AND/OR SEALED AS DETAILED AND NOTED. INSTALL ALONG INSIDE FACE OF THERMAL INSULATION.
3. POLYETHYLENE TO BE 6 MIL THICK VIRGIN MATERIAL IN ACCORDANCE WITH CAN2-51-34M86. PROVIDE SPECIALLY MOLDED POLETHYLENE PANS AT ELECTRICAL BOXES. LAP AND SEAL. MINIMIZE LAPS BY USING MAXIMUM AVAILABLE SHEET SIZE. ALL LAPS TO BE 300mm MINIMUM AND SEALED WITH ACOUSTICAL SEALANT. PROVIDE STRUCTURAL BACKING ALONG ALL LAPS BY FULLY CLAMPING BETWEEN WALL BOARD AND FRAMING. SEAL ALONG FLOOR AND ROOF STRUCTURE AS DETAILED. SEAL ALONG INSIDE EDGE OF DOOR AND WINDOW FRAMES. PROVIDE FULLY SEALED ELASTOMERIC COLLARS AROUND ALL MECHANICAL/ELECTICAL PENETRATIONS.

**MOISTURE BARRIER**

1. SHEET TYPE MOISTURE BARRIER TO BE NONWOVEN, NON-PERFORATED SPUN BONDED OLEFIN. APPROVED PRODUCT: TYVEK COMMERCIAL WRAP.
2. STORE, HANDLE, AND INSTALL ALL SYSTEM MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INSTALL ONLY OVER SOUND SUBSTRATE. SHEATHING TAPE, FASTENERS AND OTHER ACCESSORIES AS PER MANUFACTURER'S REQUIREMENTS.
3. LAP SHEETING (OVER SHEETING OR FLASHING) TO SHED MOISTURE TO BUILDING EXTERIOR. TAPE ALL JOINTS, PENETRATIONS AND AROUND WALL OPENINGS.

B.M. ELEV.	NO.	REVISIONS	DATE	BY
	1	ISSUED FOR ADDENDUM 1	DEC.1/06	RJL
	0	ISSUED FOR TENDER	NOV.16/06	RJL

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HOR. SCALE	AS NOTED	RELEASED FOR CONSTRUCTION	
VERTICAL	AS NOTED		
DATE	OCT. 2006	DATE	

PROFESSOR OF MANITOBA REGISTERED PROFESSIONAL ENGINEER

**R.J. LONG**

CONSULTANT DRAWING NO. 06-0107-17-B2

**THE CITY OF WINNIPEG**  
 PLANNING PROPERTY AND DEVELOPMENT

Winnipeg SERVICES DEPARTMENT

**RIVER PATROL BOAT STORAGE BUILDING**  
 BUILDING ELEVATIONS AND NOTES

SHEET 5 OF 5  
 CAD FILE DRAWING NUMBER 06-107-17-B-02-r1.dwg  
 PROJECT NUMBER 2005-081

**APEGM**  
 Certificate of Authorization  
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 No. 245 Expiry: April 30, 2007

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