

GENERAL:

- .1 DO NOT SCALE DRAWINGS.
.2 VERIFY ALL DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION.
.3 VERIFY ALL MECHANICAL AND ELECTRICAL REQUIREMENTS WITH RESPECTIVE DISCIPLINES.
.4 SHOP DRAWINGS AND PRODUCT DATA: SUBMIT OR REVIEW PRIOR TO FABRICATION.
.5 UNLESS NOTED OTHERWISE, INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.

PRESSURE TREATED LUMBER AND PLYWOOD:

- WOOD STUDS AND PLATES TO BE GROUP D, #2 OR BETTER, (SPF).
- ALL WOOD TO BE KILN DRIED.
- PLYWOOD THICKNESS AS SHOWN ON DRAWINGS.
- PRESSURE PRESERVATIVE: CHROMATED COPPER ARSENATE TO CSA D80-74.
- SURFACE-APPLIED WOOD PRESERVATIVE: CLEAR SOLUTION, WATER REPELLENT PRESERVATIVE.
- ALL FASTENERS TO BE GALVANIZED TO CAN/CSA-G164.

INSULATED CONCRETE PANELS

- .1 MANUFACTURER QUALIFICATIONS:
- MANUFACTURER OF PRECAST CONCRETE ELEMENTS SHALL BE CERTIFIED BY THE CANADIAN STANDARDS ASSOCIATION (CSA) ACCORDING TO CSA-A23.4 "PRECAST CONCRETE - MATERIALS AND CONSTRUCTION.
.2 FIELD VERIFICATION:
- CONTRACTOR SHALL FIELD VERIFY ALL DETAILS AND DIMENSIONS RELATED TO THE MANUFACTURING AND INSTALLATION OF NEW PANELS.
.3 SAMPLES:
- PROVIDE 300x200x25mm SAMPLES OF PANELS FOR APPROVAL.
.4 MATERIALS:
- OVERALL PANEL THICKNESS: 254mm (10")
- 76mm (3") EXTERIOR CONCRETE
- 102mm (4") INSULATION - RSI 3.52 (R-20)
- 76mm (3") INTERIOR CONCRETE
- CONCRETE MIXES:
- 28 DAY COMPRESSIVE STRENGTH: 35 MPa (CSA-A23.4)
- EXPOSURE CLASS: C-2 (CSA-A23.1)
- CEMENT, AGGREGATES WATER AND ADMIXTURES: TO CSA-A23.4 AND CSA-A23.1
- AIR ENTRAINMENT ADMIXTURE: TO ASTM C260 (CSA-A23.1) USE OF CALCIUM CHLORIDE IS NOT PERMITTED
- INSULATION: EXTRUDED POLYSTYRENE TO CAN/CGSB-51.20-M87 TYPE 2
- COLOUR AND EXTERIOR FINISH: TO MATCH EXISTING CONCRETE PANELS
- LOWER PORTION - SMOOTH
- UPPER PORTION - SANDBLASTED
- ANCHORS AND SUPPORTS: TO CSA-G40.21, TYPE 400W.
.4 INSTALLATION:
- INSTALL IN ACCORDANCE WITH ACCEPTED SHOP DRAWINGS AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

MODIFIED BITUMINOUS ROOFING:

- ACCEPTABLE SYSTEMS: SOPREMA, IKO.
.1 GYPSUM BOARD SHEATHING:
- TO CSA A82.27, EXTERIOR GRADE, 1/2" THICKNESS.
- FASTEN TO STEEL DECK USING No. 10 FLAT HEAD, SELF-TAPPING, TYPE A OR TYPE AB, CADMIUM PLATED SCREWS TO CSA B35.3.
.2 VAPOUR BARRIER:
- TO CGSB 37-GP-56M, STYRENE-BUTADIENE-STYRENE (SBS) ELASTOMERIC POLYMER, PREFABRICATED SHEET, GLASS REINFORCEMENT, WEIGHING 95 g/m².
- TOP SANDED, BOTTOM POLYPROPYLENE.
.3 ROOF MEMBRANE:
BASE SHEET:
- TO CGSB 37-GP-56M, STYRENE-BUTADIENE-STYRENE (SBS) ELASTOMERIC POLYMER, PREFABRICATED SHEET, POLYESTER REINFORCEMENT, WEIGHING 180 g/m².
- TOP POLYETHYLENE, BOTTOM SANDED.
CAP SHEET:
- TO CGSB 37-GP-56M, STYRENE-BUTADIENE-STYRENE (SBS) ELASTOMERIC POLYMER, PREFABRICATED SHEET, POLYESTER REINFORCEMENT, WEIGHING 250 g/m².
- TOP GRANULE SURFACE, BOTTOM POLYETHYLENE.
.4 PRIMER:
- AS RECOMMENDED BY ROOFING SYSTEM MANUFACTURER.
.5 BITUMEN:
- ASPHALT TO CSA A123.4, TYPE 2.
.6 INSULATION BOARD:
- POLYISOCYANURATE BOARD INSULATION TO CAN/CGSB-51.26, THICKNESS AS INDICATED ON THE DRAWINGS, SHIPLAPPED EDGES, FELT FACERS.
- ADHERED TO ROOF IN FULL BED OF ASPHALT.
- ACCEPTABLE PRODUCT: FIRESTONE ISO 95+, "E"NRG'Y 2" BY NRG BARRIERS, EXELTHERM Rx ISO, JOHNS MANVEL.
.7 FIBREBOARD:
- HIGH DENSITY WOOD FIBREBOARD, 1/2" THICKNESS.
.8 INSTALLATION:
- INSTALL FIBREBOARD AND INSULATION IN FULL BED OF ASPHALT.
- DO ALL ROOF WORK IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND CRCA STANDARDS.

OVERHEAD DOORS:

- .1 MATERIALS:
- GALVANIZED STEEL SHEET WITH Z275 ZINC COATING.
- 0.41mm (0.016") SKINS AND 1.52mm (16 GA) END CAPS.
- 2 COAT BAKED ON POLYESTER FINISH.
- INSULATION TO PROVIDE R=14 VALUE.
- 3" 14 ga. GALVANIZED STEEL TRACKS, HEAVY DUTY HARDWARE.
- GLAZING: 610x305 (24"x12") INSULATED PANELS, 3 PER DOOR.
- INTERIOR MOUNTED SLIDE LOCK AND WEATHERSTRIPPED.
- AUTO-REVERSING BOTTOM SAFETY EDGE.
- MOTORIZED OPERATION W/ MANUAL CHAIN HOIST OVERRIDE.
- MIN. 3/4 HP, 208V/3 PH MOTOR
- INDUCTION LOOP "SWITCHES" (2 PER DOOR) CUT INTO CONCRETE FLOOR AND APPROACH SLABS ON INTERIOR AND EXTERIOR OF DOOR.
- INTERIOR SURFACE-MOUNTED 3-BUTTON DOOR CONTROL STATION IN NEMA 1 ENCLOSURE - "OPEN-CLOSE-STOP"
- TRAFFIC LIGHT INDICATORS MOUNTED ON APPROACH SIDE OF DOOR.
- "GREEN" TO INDICATE DOOR IS OPEN
- "RED" TO INDICATE DOOR IN MOTION
- BOTH LIGHTS OFF WHEN DOOR IS CLOSED
- ACCEPTABLE PRODUCTS: THERMO-DOR TD-134 BY RELIABLE OVERHEAD DOORS, OR CLOPLAY #3720 BY WALLACE & WALLACE
.2 INSTALLATION:
- COORDINATE INSTALLATION WITH ELECTRICAL TO ENSURE PROPER OPERATION OF DOOR AND CONTROL/SAFETY COMPONENTS.

STEEL DOORS AND FRAMES

- HOT DIPPED GALVANIZED STEEL SHEET: TO ASTM A653M, Z275 COATING.
- REINFORCEMENT CHANNEL: TO CSA G40.20/G40.21, TYPE 44W, COATING DESIGNATION TO ASTM A653M, Z275 COATING.
1. DOORS:
- FACE SHEETS: 1.2mm (18 GA) BASE METAL THICKNESS.
2. FABRICATION:
- FABRICATE DOORS WITH POLYURETHANE INSULATED CORE
- FABRICATE DOORS WITH LONGITUDINAL EDGES CONTINUOUSLY WELDED.
- SEAMS: GRIND WELDED JOINTS TO A FLAT PLANE, FILL WITH METALLIC PASTE FILLER AND SAND TO A UNIFORM SMOOTH FINISH
- BLANK, REINFORCE, DRILL DOORS AND TAP FOR TEMPLATED HARDWARE
- PROVIDE FLUSH STEEL TOP CAP
3. FRAMES:
- 16 GA FULLY WELDED CONSTRUCTION.
- EXTERIOR DOOR FRAME THERMALLY BROKEN
4. FABRICATION:
- BLANK, REINFORCE, DRILL AND TAP FRAMES FOR HARDWARE USING TEMPLATES PROVIDED BY FINISH HARDWARE SUPPLIER.
- REINFORCE FRAMES FOR SURFACE MOUNTED HARDWARE
- PREPARE FRAME FOR DOOR SILENCERS, 3 PER DOOR
- WELDING IN ACCORDANCE WITH CSA W59
- GRIND WELDED JOINTS AND CORNERS TO A FLAT PLANE, FILL WITH METALLIC PASTE AND SAND TO UNIFORM SMOOTH FINISH

DOOR HARDWARE:

- ALL LOCKS TO BE KEYPED TO MATCH EXISTING DOORS AND THE CITY'S REQUIREMENTS.
.1 CODE 1
HINGES CB191 NRP 630 STANLEY
ELECTRIC STRIKE SUPPLY AND INSTALLATION BY CITY
PREP DOOR FRAME TO RECEIVE STRIKE
EXIT DEVICE 88TP 629 VON DUPRIN
CLOSER 4111 689 LCN
OH STOP 100S SERIES 630 GLYNN JOHNSON
WEATHERSTRIP W13 AL K.N. CROWDER
BOTTOM SWEEP W13S AL K.N. CROWDER
THRESHOLD CT45 AL K.N. CROWDER
.1 CODE 2
HINGES CB179 114x101 26D STANLEY
PASSAGE SET D10S 626 SCHLAGE
CLOSER 4111 26D LCN
SURFACE BOLTS 1631/1632 26D GLYNN JOHNSON
WEATHERSTRIP W21 AL K.N. CROWDER
THRESHOLD 6mm CHECKERPLATE

SEALANTS:

- .1 MULTICOMPONENT URETHANES (FOR CONCRETE AND MASONRY)
- TO CAN/CGSB-19.24.
.2 ONE-PART SILICONES (FOR METAL)
- TO CAN/CGSB-19.18.
.3 BUTYL SEALANT (SETTING ALUMINUM THRESHOLDS).
- TO CGSB 19-GP-14M.

PAINTING:

- COLOURS TO BE SELECTED
INTERIOR:
.1 CONCRETE (PRECAST & CAST-IN-PLACE):
- MPI SYSTEM INT 3.1A, PREMIUM GRADE, GLOSS LEVEL 3.
.2 STRUCTURAL STEEL AND METAL FABRICATIONS:
- MPI SYSTEM INT 5.1Q, PREMIUM GRADE, GLOSS LEVEL 3.
.3 GALVANIZED AND ZINC COATED METAL:
- MPI SYSTEM INT 5.3M, PREMIUM GRADE, GLOSS LEVEL 3.
EXTERIOR:
.1 GALVANIZED AND ZINC COATED METAL:
- MPI SYSTEM EXT 5.1C, PREMIUM GRADE, GLOSS LEVEL 3.

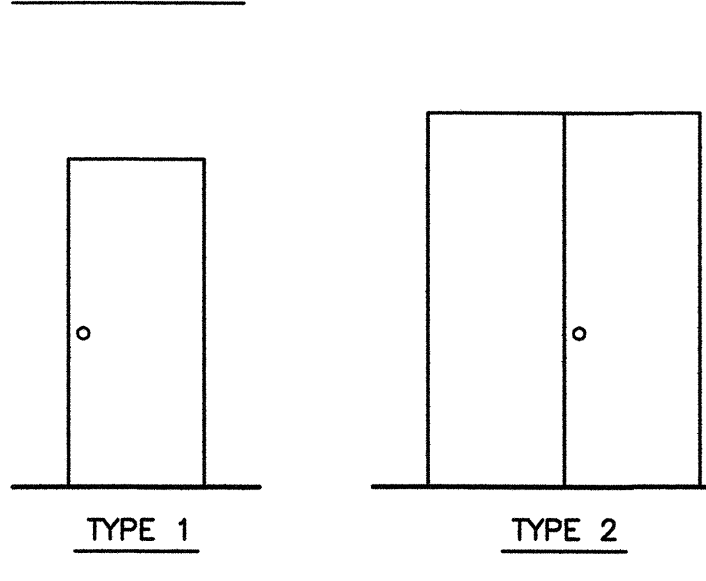
ROOM / AREA FINISHING SCHEDULE

Table with columns: ROOM / AREA, FLOOR, NORTH WALL, EAST WALL, SOUTH WALL, WEST WALL, CEILING. Row 101: MAINTENANCE BAY, C, -, -, C(e), P, C, P, C, P, C, P, STR, P, 7925±. Note: PAINTING TO INCLUDE ALL CONCRETE WALLS, STEEL BEAMS, COLUMNS, JOISTS AND STEEL ROOF DECK.

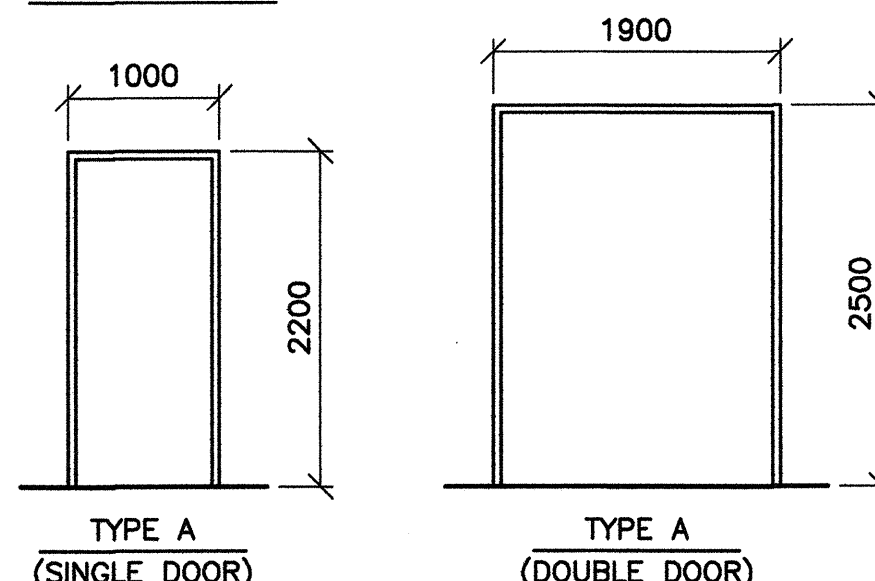
DOOR / WINDOW SCHEDULE

Table with columns: DOOR / WINDOW, FRAME, DOOR SIZE, HARDWARE CODE, F.R. RATING (HOURS), REMARKS. Rows include D101A, D101B, D101C, D101D, D101E.

DOOR TYPES:



FRAME TYPES:



ABBREVIATIONS:

- C - CONCRETE
CB - CONCRETE BLOCK
(e) - EXISTING
FIN - FINISH
GALV - GALVANIZED
GB - GYPSUM BOARD
HM - HOLLOW METAL
HT - HEIGHT
INSUL - INSULATED
LAT - LAY-IN ACOUSTIC TILE
MAT - MATERIAL
P - PAINT
PS - PRESSED STEEL
RB - RUBBER BASE
RSF - RESILIENT SHEET FLOORING
STR - STRUCTURE
TB - THERMALLY BROKEN

REFERENCE DRAWINGS table with columns: NO., DESCRIPTION.

Table with columns: NO., DATE, DESCRIPTION, PREPARED, REVIEW, DESIGN, AUTHORIZED. Includes revision history and a grid for approvals.

Professional Engineer seal for APEGM (Association of Professional Engineers and Geoscientists Manitoba) and Certificate of Authorization for TETRA TECH WEI Inc. No. 5313, Date: April 30, 2014.

Table with columns: DESIGNED BY, PREPARED BY, REVIEWED BY, AUTHORIZED BY, DATE, SCALE. Values: DLP, EV, DLP, 13.11.06, AS NOTED.

THE CONTENT OF THIS DOCUMENT IS NOT INTENDED FOR THE USE OF, NOR IS IT INTENDED TO BE RELIED UPON BY ANY PERSON, FIRM OR CORPORATION OTHER THAN THE CLIENT AND TETRA TECH WEI Inc. (Tetra Tech). TETRA TECH WEI Inc. (Tetra Tech) DISCLAIMS ANY LIABILITY WHATSOEVER TO OTHER PARTIES FOR DAMAGES OR INJURY SUFFERED BY SUCH THIRD PARTY ARISING FROM THE USE OF THIS DOCUMENT BY THEM, WITHOUT THE EXPRESSED WRITTEN AUTHORITY OF TETRA TECH WEI Inc. (Tetra Tech) AND OUR CLIENT. THIS DOCUMENT IS SUBJECT TO FURTHER RESTRICTIONS IMPOSED BY THE CONTRACT BETWEEN THE CLIENT AND TETRA TECH WEI Inc. (Tetra Tech) AND THESE PARTIES PERMISSION MUST BE SOUGHT REGARDING THIS DOCUMENT IN ALL OTHER CIRCUMSTANCES.

SUB-CONSULTANTS:

CITY OF WINNIPEG TRANSIT DEPARTMENT



PROJECT NAME: CITY OF WINNIPEG TRANSIT - FORT ROUGE GARAGE BUS MAINTENANCE ADDITION

DRAWING DESCRIPTION: BUILDING SPECIFICATIONS

Table with columns: DRAWING NO., REV. Values: 1329720500-DWG-B0007, 00.