GENERAL NOTES:

1. THE STRUCTURAL WORK UNDER THIS PROJECT HAS BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF PART 4 OF THE MANITOBA BUILDING CODE–2011, NATIONAL BUILDING CODE OF CANADA–2010.
2. ALL SPECIFICATIONS AND CODES SPECIFIED SHALL BE THE LATEST REVISION AVAILABLE.
3. SITE VERIFY ALL DIMENSIONS, ELEVATIONS, DETAILS, QUANTITIES AND CONDITIONS PRIOR TO START OF ANY DEMOLITION, CONSTRUCTION OR PREFABRICATION OF ANY BUILDING OR STRUCTURAL COMPONENT.
4. EXISTING STRUCTURAL SUPPORTS WHICH INTERFERE WITH NEW WORK SHALL BE RELOCATED UPON APPROVAL BY THE DESIGN ENGINEER.
5. THE CONTRACTOR SHALL ENSURE THAT ALL BURIED SERVICES ARE LOCATED AND MARKED PRIOR TO EXCAVATION.
6. ALL BUILDING SYSTEMS COMPONENTS SHALL BE THE PRODUCTS OF A SINGLE MANUFACTURER UNLESS SPECIFIED OTHERWISE.
7. SHIP, STORE, HANDLE, ERECT, INSTALL, ETC. ALL BUILDING MATERIALS, COMPONENTS, FIXTURES, EQUIPMENT, ETC. AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
8. ALL DEMOLITION, FABRICATION, CONSTRUCTION, ETC. SHALL BE CARRIED OUT IN ACCORDANCE WITH ALL PERTINENT BUILDING CODES, AND LOCAL BYLAWS AND ORDINANCES.
9. EACH TRADE SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE PROTECTION FOR THE EXISTING FACILITY/PROPERTY TO PREVENT PHYSICAL DAMAGE AND LOSS OF VALUE OR USE OF ANY KIND, AS A RESULT OF DEMOLITION, CONSTRUCTION AND RELATED ACTIVITIES.
10. TIME AND DURATION OF ANY NECESSARY DISRUPTION IN THE USE OF ANY ROOM, SPACE, SERVICE, EQUIPMENT, ETC. SHALL BE COORDINATED WITH, AND APPROVED BY THE OWNER AT THE START OF THE PROJECT. PROVIDE OWNER WITH MINIMUM ONE WEEK NOTICE (OR AS REQUIRED) PRIOR TO EACH ACTUAL OCCURRENCE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE OWNER AND THE DESIGN ENGINEER OF ANY PREVIOUSLY UNNOTICED PRE–EXISTING FLAW OR CONDITION THAT MIGHT INCREASE THE SCOPE OF WORK OR COMPROMISE NEW CONSTRUCTION, PRIOR TO THE START OF DEMOLITION AND CONSTRUCTION, OR AS SOON AS IT IS DISCOVERED.
12. DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE PROJECT TECHNICAL SPECIFICATIONS.

DEMOLITION:

1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL PERTINENT BUILDING CODES, THE MANITOBA DEPARTMENT OF LABOUR, AND ANY OTHER PROVINCIAL AND LOCAL BY–LAWS, REGULATIONS AND ORDINANCES.
2. DEMOLITION SHALL INCLUDE THE SAFE REMOVAL, HAULING AND DUMPING OF ALL DEBRIS, ETC. TO AN APPROVED SITE. ALL COSTS ASSOCIATED WITH THIS OPERATION, INCLUDING TRANSPORT, LICENSES AND FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. COORDINATE THE MOVING AND STORAGE OF SALVAGED ITEMS, MATERIALS, EQUIPMENT, ETC. WITH THE OWNER.

EXCAVATION & BACKFILL:

1. REMOVE ALL FILL MATERIALS, DELETERIOUS SOILS AND ORGANICS IN AREAS REQUIRING GRANULAR BASE MATERIALS. COMPACT SUBGRADE TO 95% STANDARD PROCTOR DENSITY. SUB–EXCAVATE AND REPAIR ALL AREA EXHIBITING UNSUITABLE DEFLECTIONS.
2. DO NOT COMPACT FROZEN BACKFILL OR PLACE ON FROZEN SUBGRADE.

ASBESTOS AND DUST CONTROL:

1. DUE TO THE PRESENCE OF HAZARDOUS MATERIALS, FOR THE SAFETY OF WORKERS, ALL WORK SHALL BE DONE TO MINIMIZE THE CREATION AND PROPAGATION OF DUST IN ANY FORM AT ALL TIMES DURING ALL OPERATIONS.
2. IN GENERAL ANY NECESSARY CUTTING, DRILLING, CORING, ETC. THAT MIGHT CREATE DUST SHALL BE DONE USING EQUIPMENT WITH A GASKETED DUST COLLAR OR ENCLOSURE LINKED TO A HEPA (HIGH EFFICIENCY PARTICULATE AIR) FILTERED VACUUM UNIT OR SYSTEM. CUTTING BITS, BLADES, ETC. SHOULD BE AS COARSE AS POSSIBLE, AND OPERATED AT AS SLOW A SPEED AS POSSIBLE FOR WORK DONE, TO MINIMIZE CREATION OF DUST. AT THE COMPLETION OF AN OPERATION THE IMMEDIATE AREA AND EQUIPMENT EFFECTED SHALL BE VACUUMED WITH A HEPA FILTERED VACUUM AND/OR MIST SPRAYED AND/OR DAMP WIPED/MOPPED WITH 'AMENDED' WATER.
3. IN GENERAL ENCLOSE LOCALIZED AREAS SUBJECT TO DUST CREATION WITH SEALED HEAVY WEIGHT POLYETHYLENE BARRIER. WHENEVER POSSIBLE DO UNAVOIDABLE DUST CREATING OPERATIONS IN A SMALLER ENCLOSED AREA OR OUTSIDE WHERE DUST CAN BE CONTROLLED OR IS OF NO CONSEQUENCE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATELY TRAINED PERSONNEL AND SAFETY EQUIPMENT FOR ALL POTENTIALLY HAZARD CREATING OPERATIONS (DUST, FUMES, ETC.).
5. REFER TO "PRE–RENOVATION HAZARDOUS MATERIALS ASSESSMENT" PREPARED BY TESSERACT ENVIRONMENTAL CONSULTING INC., DATED OCTOBER 13, 2023 FOR HAZARDOUS MATERIALS BUILDING ASSESSMENT.
6. THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE REGULATIONS IN PLACE.

REINFORCING STEEL:

1. REINFORCING STEEL TO BE NEW DEFORMED BILLET STEEL BARS CONFORMING TO CSA G30.18–09 (R2014). GRADE TO BE 400 MPa.
2. REINFORCING STEEL SHALL BE CLEAN, FREE OF RUST, DIRT, LOOSE SCALE, OIL, GREASE OR ANY OTHER MATERIAL WHICH WOULD REDUCE BOND WITH THE CONCRETE.
3. WELDED STEEL WIRE FABRIC SHALL CONFORM TO A1064/A1064M–14. 400 MPa MINIMUM GRADE IN FLAT SHEETS ONLY UNLESS APPROVED OTHERWISE.
4. SUBMIT SHOP DRAWINGS WHICH CLEARLY INDICATE BAR SIZES, SPACINGS, LOCATIONS & QUANTITIES OF REINFORCING STEEL, BENDING & CUTTING SCHEDULES, SUPPORTING & SPACING DEVICES, ETC. FOR REVIEW PRIOR TO FABRICATION. DETAIL, FABRICATE AND PLACE REINFORCING IN ACCORDANCE WITH CSA A23.1–09 (R2014), CSA A23.3–14 AND ACI SP–66 (2004) UNLESS NOTED. LAP STEEL 36 BAR DIAMETERS (MINIMUM) UNLESS NOTED.
5. LAP BEAM AND STRUCTURAL SLAB TOP REINFORCING AT CENTER SPAN, AND BOTTOM STEEL AT SUPPORTS.
6. BEND ALL HORIZONTAL REINFORCING 305mm AROUND CORNERS OR PROVIDE ADDITIONAL 610mm X 610mm ANGLE BARS.
7. TIE, SUPPORT AND SPACE ALL REINFORCING STEEL WITH PROPER APPROVED DEVICES DESIGNED FOR USE IN REINFORCED CONCRETE, TO PREVENT DISPLACEMENT OF REINFORCING AND ENSURE SPECIFIED CONCRETE COVER.
8. PROVIDE MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

WALLS BELOW GRADE (EXTERIOR FACE)	75mm
WALLS BELOW GRADE (INTERIOR FACE)	40mm
GRADE BEAMS & CORBELS (TOP & SIDES)	40mm
GRADE BEAMS & CORBELS (BOTTOM)	75mm
INTERIOR STRUCTURAL SLAB (TOP & BOTTOM)	38mm
EXTERIOR STRUCTURAL SLAB (TOP & SIDES)	60mm
EXTERIOR STRUCTURAL SLAB (BOTTOM)	40mm
INTERIOR CONC. PADS (TOP & SIDES)	40mm

CONCRETE:

1. CONCRETE MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CSA A23.1–09 (R2014). SEE BELOW FOR MIX REQUIREMENTS.
2. ADMIXTURES SHALL NOT BE USED UNLESS SPECIFIED HEREIN OR APPROVED BY THE DESIGN ENGINEER. CALCIUM CHLORIDE SHALL NOT BE USED.
3. MIX WATER SHALL BE POTABLE.
4. DESIGN, FABRICATE AND ERECT FORMWORK/SHORING IN ACCORDANCE WITH CAN/CSA–S269.1–16. ALLOW SUFFICIENT CONCRETE CURING TIME PRIOR TO REMOVAL.
5. CONCRETE FINISHING SHALL MEET THE REQUIREMENTS OF CSA A23.1–09 (R2014).
6. FORM RELEASE AGENT SHALL BE BIODEGRADABLE, NON–STAINING AND NON–VOLATILE.
7. PROVIDE ADEQUATE COLD/HOT WEATHER PROTECTION AS REQUIRED DURING CURING PERIOD.
8. PLACE AND SECURE ALL EMBEDDED ANCHORS, WELD PLATES, SLEEVES, BUCKS, DOWELS, INSERTS, WATERSTOPS, ETC., PRIOR TO PLACING CONCRETE. CO–ORDINATE WITH ALL TRADES FOR EMBEDDING OF ALL OTHER, CONDUIT, SERVICES, BLOCKING, ETC.
9. LOCATE AND FABRICATE ALL CONSTRUCTION JOINTS, CONTROL JOINTS AND EXPANSION JOINTS AS DETAILED ON THE DRAWINGS. JOINTS NOT SHOWN SHALL BE APPROVED BY THE DESIGN ENGINEER PRIOR TO THE PLACEMENT OF CONCRETE.
10. ALL EXPOSED CORNERS TO HAVE 25mm CHAMFER FILLET UNLESS NOTED.
11. CAST–IN–PLACE ANCHOR BOLTS SHALL MEET REQUIREMENTS OF ASTM A307–14.
12. EXPANSION ANCHORS SHALL BE HILTI KB–TZ2 OR APPROVED EQUAL, UNLESS NOTED. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
13. ADHESIVE ANCHORS SHALL BE HAS RODS W/ HILTI HIT–HY 200 ADHESIVE OR APPROVED EQUAL, UNLESS NOTED. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
14. EXISTING CONCRETE REINFORCING SCANNING SHALL BE PERFORMED PRIOR TO NEW ANCHORS INSTALLATION INTO EXISTING CONCRETE TO AVOID INTERFERENCE AND DAMAGING THE EXISTING CONCRETE REINFORCING.
15. GROUT REINFORCING DOWELS WITH EPOXY GROUT HILTI HIT–HY 200, OR APPROVED EQUAL. GROUT BASE PLATES WITH NON–SHRINK GROUT SIKA M–BED STANDARD, OR APPROVED EQUAL. PLACE AND CURE ALL GROUT WITHIN TEMPERATURE RANGE RECOMMENDED BY MANUFACTURER.
16. BONDING AGENTS SHALL BE USED TO ADHERE NEW CONCRETE TO EXISTING CONCRETE OR STEEL. ACCEPTABLE PRODUCT: SIKADUR 32 HI–MOD (EPOXY), SIKA LATEX R (ACRYLIC, MIX INTO GROUT) OR APPROVED EQUAL.
17. THE CONCRETE SUPPLIER SHALL BE CERTIFIED TO MEET THE REQUIREMENTS OF CSA A23.1–09 (R2014).
18. THE CONCRETE SUPPLIER SHALL SUBMIT CONCRETE MIX DATA SUBMISSION FORMS FOR EACH TYPE OF CONCRETE SPECIFIED FOR REVIEW PRIOR TO BATCHING ANY CONCRETE.
19. CONCRETE STRENGTH TESTS SHALL BE ARRANGED BY THE CONTRACTOR. PROVIDE ONE SET OF TEST CYLINDERS IN ACCORDANCE WITH CSA A23.1–14 FOR EVERY 50 CUBIC METERS OF CONCRETE PLACED AND A MINIMUM OF ONE SET PER STRUCTURAL COMPONENT.

CONCRETE MIX DESIGNS:

CONCRETE MIX DESIGN SHALL BE PROPORTIONED TO MEET THE FOLLOWING PERFORMANCE REQUIREMENTS:

CORBELS, GRADE BEAM & NEW RISER WALLS:

EXPOSURE CLASS	S–1
MIN. 56 DAY COMP. STRENGTH	35 MPa
CEMENT TYPE	HS
MAX. W/C RATIO	0.4
MAX. AGGREGATE SIZE	20mm
ENTRAINED AIR CONTENT	4%–7%

EXTERIOR SLAB:

EXPOSURE CLASS	C–1
MIN. 56 DAY COMP. STRENGTH	35 MPa
CEMENT TYPE	GU
MIN. W/C RATIO	0.4
MIN. AGGREGATE SIZE	20mm
ENTRAINED AIR CONTENT	4%–7%

INTERIOR SLAB & EQUIPMENT PADS:

EXPOSURE CLASS	N
MIN. 28 DAY COMP. STRENGTH	30 MPa
CEMENT TYPE	GU
MAX. W/C RATIO	0.45
MAX. AGGREGATE SIZE	20mm
ENTRAINED AIR CONTENT	N/A

UNIT MASONRY:

1. MASONRY UNITS SHALL BE MANUFACTURED IN ACCORDANCE WITH CAN/CSA A165 SERIES–04 (R2014). CONSTRUCT MASONRY IN ACCORDANCE WITH CAN/CSA A371–04 (R2014). CONNECTORS SHALL BE IN ACCORDANCE WITH CAN/CSA A370 (2014).
2. ALL CONCRETE MASONRY TO BE AS NOTED AND DETAILED. NORMAL WEIGHT HOLLOW, LOADBEARING UNITS SHALL BE H/15/A/M. REFER TO BUILDING DRAWINGS FOR AESTHETIC, CORE AND AGGREGATE REQUIREMENTS.
3. MORTAR SHALL BE TYPE 'S' AND MANUFACTURED TO CAN/CSA A179–04 (R2014). ADMIXTURES SHALL NOT BE USED WITHOUT WRITTEN APPROVAL FROM THE DESIGN ENGINEER.
4. GROUT IN–FILL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 12.5 MPa AT 28 DAYS BY CYLINDER TEST AS PER CAN/CSA A179–04 (R2014); MAXIMUM AGGREGATE SIZE 10mm; SLUMP 100mm (HORIZONTAL IN–FILL) 200mm (VERTICAL IN–FILL), AIR 1%–3%.
5. PROVIDE CLEAN–OUTS AT BOTTOM OF ALL FILLED CORE LIFTS. REMOVE ALL MORTAR FLASH AND DROPPINGS FROM CORES PRIOR TO IN–FILLING. VIBRATE OR TAMP ALL GROUT FILL. LIFTS SHALL NOT EXCEED 2000mm UNLESS APPROVED BY DESIGN ENGINEER.
6. PROVIDE 3.89mm (9 GA.) LADDER TYPE 'DUR–O–WAL' (OR EQUAL) HORIZONTAL JOINT REINFORCEMENT AT EVERY SECOND COURSE. EXTERIOR WALL/VENEER REINFORCEMENT TO BE HOT–DIPPED GALVANIZED. MINIMUM JOINT REINF'G. LAP 150mm. DISCONTINUE JOINT REINF'G. AT CONTROL JOINTS. SEE DRAWING NOTES AND DETAILS FOR ADDITIONAL CORE/COURSE REINF'G.
7. INSTALL ALL BLOCK IN RUNNING BOND PATTERN. TOOL ALL MORTAR JOINTS CONCAVE.
8. MASONRY CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN, SUPPLY AND ERECTION OF ALL TEMPORARY GUYING AND BRACING REQUIRED TO STABILIZE MASONRY WALLS. BRACING SHALL REMAIN IN PLACE UNTIL AFTER STEEL DECKING/PLYWOOD ROOF SHEATHING HAVE BEEN INSTALLED.
9. IN ADDITION TO WALL REINFORCING DEFINED IN PROJECT DRAWINGS, PROVIDE 15M REINFORCING IN GROUTED CORES AT EACH SIDE OF ALL DOORS, OPENINGS, BUILDING CORNERS AND WALL INTERSECTIONS.

ALUMINUM:

1. ALUMINUM SHALL BE IN ACCORDANCE WITH CAN/CSA S157–05 (R2010) AND THE ALUMINUM ASSOCIATION "2015 SPECIFICATION FOR ALUMINUM STRUCTURES". ALUMINUM FOR PLATES AND EXTRUDED SHAPES SHALL BE TYPE 6061–T651.
2. ALUMINUM WELDING SHALL BE AN ACCORDANCE WITH CSA W59.2–M1991 (R2013) BY WELDERS CERTIFIED AND QUALIFIED IN ACCORDANCE WITH CSA W47.2–11. ALL WELDS TO BE 6mm UNLESS OTHERWISE NOTED.
3. INSTALL NYLTITE ELECTROCHEMICAL ISOLATION GASKETS TO ELECTRICALLY ISOLATE DISSIMILAR METALS (SUPPLIER: SPAENAUR).
4. ALL ALUMINUM IN CONTACT WITH CONCRETE OR CAST INTO CONCRETE TO HAVE BITUMINOUS ISOLATION COATING. ACCEPTABLE PRODUCT: INTERTUF 16 OR APPROVED EQUAL.
5. ALL NUTS, BOLTS AND WASHERS SHALL BE ALLOY TYPE 6061–T6.
6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.

STRUCTURAL AND MISCELLANEOUS STEEL:

1. STRUCTURAL AND MISCELLANEOUS STEEL FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH CAN/CSA S16 (2014).
2. STRUCTURAL STEEL SHALL MEET THE REQUIREMENTS OF CAN/CSA G40.20/G40.21 (2013).

ROLLED W–SHAPES	CSA G40.21–350W
ROLLED SHAPES & PLATES	CSA G40.21–300W
STANDARD PIPE	ASTM A53–12
COLD FORMED STEEL	CSA S136–12
ANCHOR BOLTS (GALV.)	ASTM F1554–20, GRADE 36, GALV.
BOLTS, NUTS, & WASHERS	ASTM F3125–21, GRADE A325, GALV.
WELDING ELECTRODES	CSA W48–14

3. WELDING SHALL BE IN ACCORDANCE WITH CSA W59 (2013), BY WELDERS CERTIFIED AND QUALIFIED IN ACCORDANCE WITH CSA W47.1–09 (R2014). ALL WELDS TO BE 6mm UNLESS NOTED OTHERWISE.
4. FIELD CONNECTIONS SHALL BE BOLTED 19mm DIAMETER A325 BEARING TYPE UNLESS NOTED OTHERWISE. BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH CSA S16 (2014).
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
6. STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FINISHED AS INDICATED BELOW, UNLESS OTHERWISE NOTED, OR APPROVED EQUAL.:

   GALVANIZED STEEL (UNPAINTED) – FLOOR REINFORCING BEAMS, LADDERS & GUARDRAILS
   – SURFACE PREP. TO SP8 (PICKLING)
   – HOT DIPPED GALVANIZED TO ASTM A123–13

   GALVANIZED STEEL (PAINTED) – CRANE BEAMS
   – SURFACE PREP. TO SP8 (PICKLING)
   – HOT DIPPED GALVANIZED TO ASTM A123–13
   – PREPARE GALVANIZED SURFACE USING DE–GREASER (PPG DURAPREP PREP 88 OR EQUAL)
   NOTE: DO NOT LET DE–GREASER DRY ON STEEL SURFACE, PRESSURE WASH OFF ALL TRACES OF DE–GREASER FROM STEEL. ALLOW STEEL TO DRY PRIOR TO PRIMING
   – 1 COAT EPOXY (AMERLOCK 600 – 3–5 mils.)
   – 1 COAT URETHANE (DURETHANE – 3–5 mils.)

7. COLOUR OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE AS FOLLOWS:
   – CRANE BEAMS (MONORAILS) – SAFETY YELLOW WITH CAPACITY MARKED IN 100mm HIGH BLACK LETTERS
8. FIELD TOUCH–UP WITH GALVANIZING SOLDER TO MATCH GALVANIZED STEEL. ACCEPTABLE PRODUCT: ZINGA, GAL–VIZ OR APPROVED EQUAL.
9. FIELD TOUCH–UP PAINT TO CONNECTIONS, WELDS, BURNED OR DAMAGED SURFACES, AND UNFINISHED SURFACES AT COMPLETION OF ERECTION AND SHALL MATCH THICKNESS AS SPECIFIED.
10. PAINTED SURFACES OF EXISTING STEEL SHALL BE GROUND SMOOTH TO BARE METAL PRIOR TO FIELD WELDING.
11. HEAT STRAIGHTENING PROCEDURE SHALL BE APPROVED BY A WELDING ENGINEER AND BE SUBMITTED PRIOR TO REPAIR OF BENT MEMBERS.

WOOD FRAMING:

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

COMPONENT	GRADE
STUDS AND PLATES (U/N)	S–P–F NO.2

3. LUMBER MOISTURE CONTENT NOT TO EXCEED 19%.
4. SHEATHING TO BE EXTERIOR GRADE AS SCHEDULED UNLESS NOTED.

LOCATION	THICKNESS/GRADE	INSTALLATION
ROOF & CEILING	13mm PLYWOOD	NAILS AT 100 mm O.C. ALONG PANEL EDGES AND AT 300mm O.C. ELSEWHERE

5. MINIMUM FRAMING REQUIREMENTS TO BE IN ACCORDANCE WITH PART 9 "WOOD FRAME CONSTRUCTION" SECTION OF THE MANITOBA BUILDING CODE OF CANADA–2010.
6. CUT LUMBER NEAT AND SQUARE PROVIDING FULL SURFACE CONTACT WITH ADJOINING MEMBERS.
7. PROVIDE MINIMUM 48 HOURS NOTICE FOR FRAMING INSPECTION PRIOR TO CLOSING IN.

WOOD ROOF TRUSSES:

1. 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.
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 ROOF TRUSSES SHALL BE TIED TO SUPPORTING STRUCTURE WITH "HURRICANE" TIES INDICATED ON DRAWINGS AT EACH END IN ADDITION TO NORMAL TOE–NAILING.
6. VERTICAL SWAY BRACING AND HORIZONTAL CROSS BRACING SHALL BE INSTALLED AS PER THE TRUSS SUPPLIERS REQUIREMENTS.
7. TRUSSES SHALL NOT BE FIELD MODIFIED IN ANY WAY WITHOUT WRITTEN CONSENT OF THE MANUFACTURER AND THE DESIGN ENGINEER.
8. SHIP, STORE, HANDLE AND INSTALL PREFABRICATED WOOD TRUSSES AND RELATED COMPONENTS IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10		
9		
8		
7		
6		
5		
4		
3		
2		
1	1–0162L–S000–001	SPECIFICATION NOTES & DETAILS

REFERENCE DRAWINGS

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

B.M.
ELEV.

NO.	REVISIONS	DATE (YY/MM/DD)	BY
0	ISSUED FOR CONSTRUCTION	2023 03 23	CMS

KGS GROUP

DESIGNED BY	S. SUCHKOV	CHECKED BY	CMS
DRAWN BY	F. VALENCIA	APPROVED BY	CMS
SCALE: HORIZONTAL	AS SHOWN	RELEASED FOR CONSTRUCTION	
VERTICAL			
DATE	2023 03 23	DATE	

PLOT DATE: 2023 03 23

ENGINEER'S SEAL
PROVINCE OF MANITOBA
S. SUCHKOV
Member
34686
REGISTERED PROFESSIONAL ENGINEER
2023-03-23

CONSULTANT DRAWING NUMBER
22–0107–004_S01

BID OPPORTUNITY: 864-2022

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

METCALFE LIFT PUMPING STATION
2022 UPGRADES
STRUCTURAL
SPECIFICATION NOTES
NEW

CITY DRAWING NUMBER 1-0162L-S0001-001
SHEET 1 OF 1

FILE PATH: \\k-file-4\p-data\Projects\2022\22-0107-004\Dwg\Struct\