DESIGN LOADS ARE INDICATED ON THE DRAWINGS.

DESIGN LIVE LOADS SHALL NOT BE EXCEEDED AT ANY TIME DURING CONSTRUCTION.

DO NOT SCALE DRAWINGS.

VERIFY ALL DIMENSIONS, ELEVATIONS, SLOPES, DETAILS, CONDITIONS, ETC. SHOWN ON THE DRAWINGS AND VERIFIED WITH SITE CONDITIONS, PRIOR TO CONSTRUCTION OR PREFABRICATION OF ANY BUILDING COMPONENT. MODIFICATIONS, ALTERNATIONS OR SUBSTITUTIONS MUST BE AUTHORIZED IN

WRITING BY THE ENGINEER.

LOCATE ALL EXISTING SUBGRADE SERVICES PRIOR TO CONSTRUCTION.

DESIGN AND INSTALL ALL NECESSARY SHORING, BRACING AND FORMWORK. FORMWORK FOR CONSTRUCTION SHALL BE BRIDGED OVER EXISTING SERVICES. PROCEDURE MUST BE APPROVED BY THE ENGINEER.

REVIEW LOCATION OF INTENDED AND PROPOSED CONSTRUCTION JOINTS WITH ENGINEER PRIOR TO PROCEEDING.

CONSTRUCTION SAFETY REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

12 DEFECTIVE OR UNACCEPTABLE WORK SHALL BE REPAIRED TO THE SATISFACTION OF THE CONSULTANT AT NO ADDITIONAL COST TO THE PROJECT.

13 NOTIFY THE DESIGN ENGINEER AT LEAST 48 HOURS PRIOR TO ALL

CONCRETE PLACEMENT TO ALLOW FOR SITE INSPECTIONS.
WHERE THERE IS A DISCREPANCY BETWEEN DRAWINGS, SUBMIT A FORMAL RFI TO ENGINEER OF RECORD PRIOR TO MANUFACTURING OR INSTALLATION.

ALL SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL

CONTRACTOR PRIOR TO SUBMITTAL TO ENGINEER OF RECORD. ALL SHOP DRAWING SUBMITTALS REQUIRING AN ENGINEER'S SIGNED SEAL SHALL BE ACCOMPANIED BY CERTIFICATE OF AUTHORIZATION FROM 'EGM'.

CAST-IN-PLACE CONCRETE

ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH CSA A23.1-14 CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION / METHODS OF TEST AND STANDARD PRACTICES FOR CONCRETE.

SUPPLEMENTARY CEMENTITIOUS MATERIAL TO CAN/CSA-A3000-13

CEMENTITIOUS MATERIALS COMPENDIUM.

CHEMICAL ADMIXTURES TO ASTM C494/C494M-16 AND ASTM C10171017M-13e1.

GENERAL CONTRACTOR TO PROVIDE PROPRIETARY MIX DESIGN PERFORMANCE RECORD AS REQUIRED BY CONCRETE MANITOBA

SUBMIT CONCRETE MIX DESIGN STATEMENTS, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA WHO HOLDS A CERTIFICATE OF AUTHORIZATION OF 'EGM', TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

CONCRETE SPECIFICATIONS:

REFER TO TABLE B.1 BELOW

CONSTRUCT FORMWORK, SHORING AND BRACING TO MEET DESIGN, CODE AND CSA A23.1-14 REQUIREMENTS. CONSTRUCT ACCURATELY, SO THAT RESULTING FINISHED CONCRETE CONFORMS TO SHAPES, LINES, AND DIMENSIONS INDICATED ON THE DRAWINGS.

VIBRATE ALL CONCRETE WORK WITH APPROPRIATE INTERNAL VIBRATORS.

CONCRETE WORKING TIME, FROM BATCHING TO PLACEMENT AND CONSOLIDATION, SHALL NOT EXCEED 1-1/2 HOURS.

CONTRACTOR SHALL ACCURATELY PLACE AND SECURE ALL COMPONENTS TO BE EMBEDDED IN THE CONCRETE (ie. DOWELS FOR CONCRETE, ANCHOR BOLTS, ETC.). SEE STRUCTURAL, ARCHITECTURAL, AND ANY OTHER PERTINENT DRAWINGS.

CLEAR CONCRETE COVER TO REINFORCING STEEL:

REFER TO TABLE B.2.

12 SEE ARCHITECTURAL DRAWINGS FOR SURFACE FINISHES, EDGE TREATMENTS,

CONCRETE TESTING SHALL BE PERFORMED BY AN INDEPENDENT CSA APPROVED TESTING COMPANY. A MINIMUM OF THREE (3) CONCRETE TEST CYLINDERS AND ONE (1) SLUMP TEST SHALL BE TAKEN FOR EVERY 75 (OR LESS) CUBIC METERS OF EACH CLASS OF CONCRETE PLACED, OR FOR EACH DAY CONCRETE IS PLACED, WHICHEVER IS GREATER. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH CSA A23.2-14, AND THE RESULTS SHALL BE FORWARDED TO THE ENGINEER.

VOID FORMS UNDER PILE CAPS / GRADE BEAMS / SLABS SHALL BE HONEYCOMB TYPE \BIODEGRADABLE CARDBOARD, 200mm THICKNESS, CAPABLE OF PROVIDING SUFFICIENT STRUCTURAL SUPPORT FOR CONCRETE

UNTIL CONCRETE IS CURED..

AS AN ALTERNATE VOID FORM, CONTRACTOR MAY USE STYROFOAM TYPE VOID FILLER WHICH MUST MAINTAIN VOID SPACE NOTED ABOVE WHEN COLLAPSED / COMPRESSED. STYROFOAM VOID FILLER SHALL BE SELECTED AND DESIGNED BY MANUFACTURER. VOID FORM SELECTED TO BE FORWARDED TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

ALL FORMWORK INCLUDING CARDBOARD "SONO-TUBES" TO BE REMOVED UPON COMPLETION.

ALL HOLES NOT SHOWN ON THE DRAWINGS TO BE CORED THROUGH REINFORCED CONCRETE TO BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO CORING.

CONCRETE PLACEMENT SCHEDULING, AND WORK PROCEDURES SHALL BE DISCUSSED WITH THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION.

FOR COLD WEATHER CONCRETE WORK, ALL ICE, SNOW, AND FROST SHALL BE REMOVED FROM FORMWORK AND THE TEMPERATURE OF ALL CONTACT SURFACES SHALL BE RAISED ABOVE 10C FOR 24 HOURS PRIOR TO PLACING CONCRETE. CONCRETE SHALL BE NOT LESS THAN 20 DEGREES CELSIUS NOR MORE THAN 30 DEGREES CELSIUS WHEN DEPOSITED. CONCRETE SHALL BE ENCLOSED AND THE SPACE SHALL HAVE A TEMPERATURE OF NOT LESS THAN 20 DEGREES CELSIUS FOR THREE (3) DAYS AND NOT LESS THAN 5C FOR AN ADDITIONAL FOUR (4) DAYS.

20 NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO ALL CONCRETE PLACEMENT TO ALLOW FOR SITE INSPECTIONS.

A WOOD TEMPLATE FOR ANCHOR BOLT PLACEMENT IS TO BE USED TO ACCURATELY PLACE ANCHOR BOLTS IN CONCRETE.

CAST-IN-PLACE CONCRETE PILES

SHAFT AND BELL DIAMETERS ARE AS INDICATED ON THE DRAWINGS.

PILING CONTRACTOR WILL BE REQUIRED TO SLEEVE HOLES DURING INSTALLATION OF CONCRETE FOR PILES, AS REQUIRED.

INSTALL PILES VERTICALLY, NOT OUT OF PLUMB BY MORE THAN 2%; NOR OUT OF POSTION AS SHOWN IN THE FOUNDATION PLAN BY MORE THAN 50mm (2").

REFER TO "CONCRETE" AND "REINFORCING STEEL" NOTES FOR MATERIAL SPECIFICATIONS AND REQUIREMENTS.

REFER TO TYPICAL PILE DETAIL FOR ADDITIONAL INFORMATION.

VIBRATE THE TOP 3000mm (10'-0") OF CONCRETE OF ALL CAST-IN-PLACE PILES.

EXTEND VERTICAL PILE DOWELS MIN. 450mm (18") INTO THE STRUCTURAL CONCRETE MEMBERS SUPPORTED UNLESS NOTED OTHERWISE.

REINFORCING STEEL

REINFORCING STEEL SHALL BE NEW BILLET, DEFORMED BARS WITH A MINIMUM SPECIFIED YIELD STRENGTH OF 400MPa IN ACCORDANCE WITH CSA G30.18-09 (R2014).

REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST RSIC REINFORCING STEEL MANUAL OF STANDARD PRACTICE.

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ALL REINFORCING TO BE HELD IN PLACE AND TIED BY THE USE OF PROPER ACCESSORIES SUCH AS HI-CHAIRS, SPACERS, ETC.

SUBMIT SHOP DRAWINGS WHICH CLEARLY INDICATE BAR SIZES, GRADE, SPACING, HOOKS, BENDS, SUPPORTING/SPACE DEVICES, ETC. FOR REVIEW TO ENGINEER PRIOR TO FABRICATION.

PRIOR TO PLACING CONCRETE, ENSURE THAT ALL REINFORCING STEEL IS CLEAN, FREE OF LOOSE SCALE, RUST, MUD, OIL, OR OTHER FOREIGN MATERIAL THAT WOULD REDUCE BOND.

HEATING, QUENCHING, AND BENDING OF REINFORCING STEEL ON THE SITE IS NOT ALLOWED.

E STRUCTURAL STEEL

STRUCTURAL STEEL SHALL CONFORM TO CSA G40.20-13/G40.21-13.

ALL OTHER ROLLED OR WELDED STRUCTURAL SECTIONS AND PLATES TO BE TO CSA G40.21-13, 300MPa.

FABRICATION AND ERECTION SHALL CONFORM TO CSA S16-14.

ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS FULLY APPROVED FOR STRUCTURAL WELDING BY THE CANADIAN WELDING BUREAU IN ACCORDANCE WITH CSA W47.1-09 (R2014), CSA 47.2-11 (R2015), AND CSA W59-13.

SPLICING OF MEMBERS NOT PERMITTED UNLESS OTHERWISE NOTED, WHERE BEAMS ARE CONTINUOUS OVER SUPPORTS, NO HOLES PERMITTED IN TOP FLANGE.

COLUMN BASE AND CAP PLATES SHALL BE WELDED TO COLUMNS. PROVIDE MINIMUM 20mm (3/4") BASE PLATE C/W MINIMUM (4) 20mm (3/4") DIA. BOLTS FOR ALL COLUMNS UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL ERECTOR SHALL SUPPLY AND INSTALL ALL TEMPORARY GUYING AND BRACING NECESSARY TO PROVIDE STABILITY FOR THE STRUCTURE AS A WHOLE.

STRUCTURAL STEEL SUPPLIER SHALL SUBMIT SHOP DRAWINGS, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA WHO HOLDS A CERTIFICATE OF AUTHORIZATION OF 'EGM', SHOWING ALL DESIGN AND FABRICATION DETAILS OF CONNECTIONS, TO THE ENGINEER FOR REVIEW PRIOR FABRICATION.

GALVANIZING AS INDICATED SHALL BE HOT DIPPED GALVANIZED TO ASTM A123/A123M-15 FOR SHAPES AND ASTM A153/A153M-16 FOR HARDWARE

10 PROVIDE MINIMUM 6.4mm (1/4") WELD UNLESS NOTED OTHERWISE.

11 DESIGN FOR MINIMUM 50% OF SHEAR CAPACITY UNLESS NOTED OTHERWISE.

WOOD

ALL SAWN LUMBER AND TIMBER SHALL CONFORM TO "NLGA - STANDARD GRADING RULES FOR CANADIAN LUMBER".

DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-086-14 AND CAN/CSA-0122-16, AND THE NATIONAL BUILDING CODE 2010, WHICHEVER IS MORE STRINGENT. EXCEPT AS NOTED ON THE DRAWINGS.

LUMBER FOR ALL FRAMING SHALL BE NO.2 SPF. UNLESS NOTED OTHERWISE. ALL PLYWOOD SHALL BE DOUGLAS FIR (EXTERIOR GRADE)

MOISTURE CONTENT OF LUMBER SHALL NOT EXCEED 19% (BY WEIGHT) AT TIME OF INSTALLATION.

CUT ALL COMPONENTS NEAT AND SQUARE, PROVIDING FULL CONTACT WITH ADJACENT MEMBERS.

ALL CONNECTION HARDWARE TO BE GALVANIZED AND FASTENED PER THE MANUFACTURER'S RECOMMENDATIONS TO DEVELOP FULL CAPACITY OF THE CONNECTOR.

FASTEN ALL WOOD MEMBERS WITH NAILS ACCORDING TO THE "NAILING FOR FRAMING" TABLE IN PART 9 OF THE NATIONAL BUILDING CODE, UNLESS, 18-05-0 OTHERWISE NOTED. 115418013



ORIGINAL SHEET - ISO 11x17 - v17.05

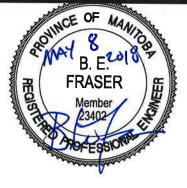
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No. 1301



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CITY OF WINNIPEG PLANNING, PROPERTY & DEVELOPMENT GORD DONG PARK REDEVELOPMENT Winnipeg, Manitoba

Figure No.

GENERAL NOTES PART 1 FOR COMMUNITY OVEN ENCLOSURE