RENOVATIONS

1. THE CONTRACT DOCUMENTS ARE BASED ON ASSUMED AS-BUILT DIMENSIONS FOR THE EXISTING BUILDING STRUCTURE AND ASSUMPTIONS IN ACCORDANCE WITH DETAILING AND PLACING PRACTICE. THESE ASSUMPTIONS MAY VARY FROM THE ACTUAL ON-SITE CONDITIONS. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE CONSULTANT OF ANY ACTUAL VARIATIONS FROM THE ASSUMED CONDITIONS.

2. MINOR MODIFICATIONS WILL BE REQUIRED TO THE WORK INDICATED ON THESE DRAWINGS TO REFLECT ACTUAL SITE CONDITIONS. THE CONTRACTOR WILL COOPERATE WITH THE CONSULTANT AND RJC IN THIS REGARD. MINOR MODIFICATIONS WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND WILL NOT RESULT IN A CHANGE IN THE CONTRACT PRICE.

3. ENSURE THAT ALL NECESSARY JOB DIMENSIONS ARE TAKEN AND ALL TRADES ARE COORDINATED FOR THE PROPER EXECUTION OF THE WORK. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF SUCH DIMENSIONS, AND FOR COORDINATION.

4. PRIOR TO FABRICATION OF ANY STRUCTURAL MEMBERS, THE CONTRACTOR SHALL COMPLETE THIS SITE REVIEW OF CRITICAL "TIE-IN" DIMENSIONS AND CONFIRM ALL DIMENSIONS TO ENSURE PROPER FIT OF NEW WORK TO EXISTING. REPORT ANY DISCREPANCIES TO RJC PRIOR TO STARTING WORK.

5. COMMENCEMENT OF CONSTRUCTION OR ANY PART THEREOF CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND MEANS DIMENSIONS AND ELEVATIONS HAVE BEEN CONSIDERED, VERIFIED AND ARE ACCEPTABLE.

6. ANY OPENINGS THAT ARE NOT SHOWN OR INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REPORTED TO RJC FOR REVIEW. THESE OPENINGS MAY NOT BE ALLOWED, MAY HAVE TO BE MOVED, OR MAY REQUIRE ADDITIONAL STRUCTURAL WORK AND DETAILING. DO NOT PROCEED WITH THESE OPENINGS WITHOUT WRITTEN PERMISSION FROM RJC.

7. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, THE CORING OR CUTTING OF OPENINGS AND HOLES SHOWN ON THE STRUCTURAL DRAWINGS THROUGH THE EXISTING STRUCTURE SHALL NOT CUT ANY REINFORCING BARS. THE CONTRACTOR SHALL LOCATE THE POSITION OF EXISTING REINFORCING BARS IN THE VICINITY OF THE HOLES AND SLEEVES TO BE CUT OR CORED, AND THE HOLES AND SLEEVES SHALL BE LOCATED TO AVOID CUTTING OF REINFORCING BARS. WHERE THIS IS NOT POSSIBLE, IT SHALL BE REPORTED TO RJC FOR REVIEW.

8. NEW OPENINGS TO BE CUT THROUGH EXISTING FLOOR SLAB OR WALLS SHALL BE CLEARLY MARKED OUT BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY RJC ONCE THE MARKING OUT HAS BEEN COMPLETED SO THAT RJC CAN REVIEW THE PROPOSED LOCATIONS OF ALL NEW OPENINGS. DO NOT PROCEED WITH CUTTING OF NEW OPENINGS WITHOUT THE APPROVAL OF RJC.

9. UNLESS NOTED OTHERWISE ON THE DRAWINGS NEW STRAIGHT SIDED OPENINGS THROUGH EXISTING SLABS AND WALLS SHALL BE SAWCUT WITH NO OVERCUTS. USE CORED HOLES AT THE CORNERS. JACKHAMMERING SHALL NOT BE PERMITTED. REFER TO THE DETAILS AND PROCEDURES INDICATED ON THE STRUCTURAL DRAWINGS FOR THE NEW OPENINGS. ALTERNATES TO THE ABOVE PROCEDURES MUST BE REVIEWED BY RJC PRIOR TO THE START OF DEMOLITION OR CONSTRUCTION.

10. CONNECTIONS FOR NEW STRUCTURAL STEEL FRAMING TO EXISTING STRUCTURAL STEEL SHALL BE ACHIEVED THROUGH WELDED CONNECTIONS UNLESS OTHERWISE NOTED. WELDING OF NEW STEEL TO "OLD" STEEL (STEEL PRODUCED IN EARLY 20TH CENTURY) MAY REQUIRE MODIFICATIONS TO THE STANDARD WELDING PROCEDURES. PROCEDURES OF WELDING NEW STEEL TO "OLD" STEEL SHALL BE PREPARED BY THE CONTRACTOR'S SPECIALTY STRUCTURAL ENGINEER AND REVIEWED AND APPROVED BY RJC. CONTRACTOR TO ALSO PROVIDE A REPORT FROM MATERIALS TESTING COMPANY COMMENTING ON CHEMICAL COMPOSITION AND WELDABILITY OF OLD STEEL.

11. CONTRACTOR TO ENSURE THAT UNDERGROUND OR IN-SLAB SERVICES ARE NOT DAMAGED THROUGH DEMOLITION, SAWCUTTING, HOLE AUGURING, OR OTHER CONSTRUCTION ACTIVITIES. SEE SPECIFICATION FOR TESTING/LOCATING REQUIREMENTS.

12. DRILL AND SITE MEASURE BOLT HOLES IN EXISTING STRUCTURE PRIOR TO FABRICATING STEEL CONNECTION PLATES. BOLT HOLES MAY HAVE TO BE MOVED FROM WHAT IS SHOWN ON THE DRAWINGS TO AVOID CUTTING EXISTING REINFORCING OR TO AVOID OTHER SITE CONDITIONS. SITE MODIFICATION OF STEEL CONNECTION PLATES WILL NOT BE ACCEPTED WITHOUT THE PRIOR APPROVAL OF RJC.

13. DO NOT OVERLOAD THE STRUCTURE. ENSURE ALL REASONABLE PRECAUTIONS ARE TAKEN TO PREVENT DAMAGE TO THE UNDERLYING STRUCTURES REMAINING IN PLACE. PROVIDE SHORING AS NECESSARY TO PREVENT OVERLOADING THE STRUCTURE DURING DEMOLITION AND CONSTRUCTION.

14. CONTRACTOR TO ENSURE THAT EXISTING AIR AND VAPOUR BARRIERS ARE MAINTAINED IN AREAS OF CONSTRUCTION. ANY INADEQUACIES IN AIR OR VAPOUR BARRIERS TO BE BROUGHT TO THE ATTENTION OF RJC.

15. FOR FASTENING TO EXISTING MATERIALS, USE ONLY PRODUCTS AS SPECIFIED UNLESS ALTERNATIVES HAVE BEEN PREAPPROVED BY RJC.

DESIGN LOADS

1. DESIGN LOADS INDICATED ON THE EXISTING BASE BUILDING STRUCTURAL DRAWINGS:

   A. ROOF LEVEL — SNOW - VARIES FROM 7.5 kPa TO 2.2 kPa; DL = 1.0 kPa

   B. UPPER MECH. ROOM — LL = 3.6 kPa

   CONTRACTORS CONSTRUCTION LOADS MUST NOT EXCEED THE ABOVE DESIGN LOADS.

   SUPERIMPOSED DEAD LOADS (S.D.L.) ARE NON-STRUCTURE DEAD LOADS DUE TO ARCHITECTURAL TOPPINGS, FINISHES, PARTITIONS, ROOFING MATERIALS, PAVERS, SOIL, ETC.

   STRUCTURAL DEAD LOADS (D.L.) ARE DUE TO THE WEIGHT OF THE STRUCTURE ITSELF. THEY VARY WITH THE STRUCTURAL SYSTEM AND INCLUDE CONCRETE TOPPINGS ON STEEL DECK.

   MECH. EQUIPMENT: SEE EQUIPMENT SCHEDULE ON PLAN.

2. <u>WIND DESIGN:</u>

   q50 = 0.47 kPa Iw ULS = 1.0 SLS = 0.75

3. <u>SEISMIC DESIGN:</u>

   THE LATERAL RESTRAINT OF BUILDING COMPONENTS FOR THIS PROJECT IS DESIGNED FOR THE FOLLOWING EARTHQUAKE FACTORS:

   Sa (0.2) = 0.768 SITE CLASS C
   Fa = 1.0 Ie = 1.0

   AND THE FOLLOWING ELEMENT OR COMPONENT FACTORS:

   A. MACHINERY, FIXTURES AND EQUIPMENT; FLEXIBLE AND FLEXIBLY CONNECTED (CATEGORY 11B)

   Ax = 3.0 Rp = 2.5 Vp = 0.69xWp
   Cp = 1.0 Rp (anchor) = 1.5 Vp (anchor) = 0.92xWp
   Ar = 2.5

   Rp (anchor) IS ONLY REQUIRED FOR DESIGN OF ANCHORS WITH EMBEDMENT LESS THAN 8x THE ANCHOR DIAMETER (i.e. 1/2" ANCHOR WITH LESS THAN 100 mm EMBEDMENT).

FIELD REVIEW BY READ JONES CHRISTOFFERSEN (RJC)

1. READ JONES CHRISTOFFERSEN PROVIDES FIELD REVIEW ONLY FOR THE WORK SHOWN ON THESE DRAWINGS. THIS REVIEW IS NOT A "FULL TIME" REVIEW BUT IS CONDUCTED WITH SUCH FREQUENCY AS RJC DEEMS APPROPRIATE TO OBSERVE VARIOUS STAGES OF THE WORK AND TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE PLANS AND SUPPORTING DOCUMENTS PREPARED BY READ JONES CHRISTOFFERSEN. FIELD REVIEW BY READ JONES CHRISTOFFERSEN IS NOT CARRIED OUT FOR THE CONTRACTOR'S BENEFIT, NOR DOES IT MAKE READ JONES CHRISTOFFERSEN GUARANTORS OF THE CONTRACTOR'S WORK. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO BUILD THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. RJC SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

2. WHEN APPLICABLE RJC WILL REVIEW SHOP DRAWINGS PERTAINING TO WORK SHOWN ON RJC'S DRAWINGS. THE EXTENT OF THIS REVIEW IS AT THE SOLE DISCRETION OF RJC'S ENGINEER AND IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMANCE WITH THE STRUCTURAL DESIGN CONCEPT. THE REVIEW IS NOT AN APPROVAL OF THE DESIGN, DETAILS, AND DIMENSIONS INHERENT IN THE SHOP DRAWINGS, RESPONSIBILITY FOR WHICH SHALL REMAIN WITH THE CONTRACTOR OR SUBCONTRACTOR SUBMITTING THEM. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OR SUBCONTRACTOR OF HIS OR HER RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS OR FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.

3. PROVIDE 24 HOURS ADVANCE NOTICE OF EACH REQUIRED FIELD REVIEW. FIELD REVIEWS SHALL BE SCHEDULED TO BE CARRIED OUT DURING NORMAL BUSINESS HOURS UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH RJC.

4. THE WORK TO BE REVIEWED SHALL BE GENERALLY COMPLETE AND NOT COVERED BY FINISHES. ADDITIONAL SITE VISITS MAY BE REQUIRED AS A RESULT OF DEFICIENT OR INCOMPLETE WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SAFE ACCESS FOR RJC TO REVIEW THE WORK.

ABBREVIATIONS

A.B.	ANCHOR ROD	L.S.H.	LONG SIDE HORIZONTAL
ACCOM.	ACCOMMODATE	L.S.V.	LONG SIDE VERTICAL
AESS	ARCHITECTURALY EXPOSED STRUCTURAL STEEL	L.T.S.	LENGTH TO SUIT
		L.V.	LENGTH VARIES
Af	FACTORED AXIAL FORCE	L.W.	LONG WAY
ALT.	ALTERNATE	MANUF.	MANUFACTURED
ALUM.	ALUMINUM	MAX.	MAXIMUM
ARCH.	ARCHITECTURAL	MECH.	MECHANICAL
B.C.E.	BOTTOM CHORD EXTENSION	Mf	FACTORED MOMENT
		MIN.	MINIMUM
B.E.W.	BOTTOM EACH WAY	N.F.	NEAR FACE
B.L.L.	BOTTOM LOWER LAYER	N.I.C.	NOT IN CONTRACT
BM.	BEAM	N.S.	NEAR SIDE
BOT.	BOTTOM	N.T.S.	NOT TO SCALE
B.U.L.	BOTTOM UPPER LAYER	O.C.	ON CENTER
B.W.	BOTH WAYS	O/C	ON CENTER
CANTIL.	CANTILEVER	O.F.	OUTSIDE FACE
Cf	FACTORED AXIAL COMPRESSION FORCE	OPP.	OPPOSITE
		O.W.S.J.	OPEN WEB STEEL JOIST
C.I.P.	CAST IN PLACE	Pf	FACTORED POINT LOAD
C.J.	CONTROL JOINT	PL.	PROPERTY LINE
CL.	CENTER LINE	P.P.	PARTIAL PENETRATION
CLR.	CLEAR	P/T	POST-TENSIONING
COL.	COLUMN	R.D.	ROOF DRAIN
CONC.	CONCRETE	R.O.	ROUGH OPENING
CONT.	CONTINUOUS	RTN.	RETURN
C.P.	COMPLETE PENETRATION	R.W.L.	RAIN WATER LEADER
CTRS.	CENTERS	R/W	REINFORCED WITH
C/W	COMPLETE WITH	S.A.M.	SELF-ADHERED MEMBRANE
DET.	DETAIL	S.D.L.	SUPERIMPOSED DEAD LOAD
D.L.	DEAD LOAD		
D.O.	DO OVER - (DITTO)	SIM.	SIMILAR
DP.	DEEP (E.G. DEPTH OF BEAM)	S.L.	SNOW LOAD
		S.L.B.B.	SHORT LEGS BACK TO BACK
D.T.S.	DEPTH TO SUIT	SLS	SERVICEABILITY LIMIT STATE
DWG.	DRAWING		
DWLS.	DOWELS	S.O.G.	SLAB ON GRADE
EA.	EACH	SPEC.	SPECIFICATIONS
E.E.	EACH END	SST	STAINLESS STEEL
E.F.	EACH FACE	STAG.	STAGGER
EL.	ELEVATION	STIR.	STIRRUP
ELEV.	ELEVATION	STL.	STEEL
ELEC.	ELECTRICAL	S.W.	SHORT WAY
EQ.	EQUAL	SYM.	SYMMETRICAL
E.S.	EACH SIDE	T&B	TOP AND BOTTOM
E.WAY	EACH WAY	T&C	TENSION AND COMPRESSION
E.W.	EACH WAY		
EXIST.	EXISTING	T&G	TONGUE AND GROOVE
EXT.	EXTERIOR	T.D.C.	TRAFFIC DECK COATING
F.D.	FLOOR DRAIN	Tf	FACTORED AXIAL TENSION FORCE
F.F.	FAR FACE		
F.S.	FAR SIDE	THK.	THICK
FTG.	FOOTING	THRU	THROUGH
GA.	GAUGE	T.J.	TIE JOIST
GALV.	GALVANIZED	T.L.L.	TOP LOWER LAYER
G.W.B.	GYPSUM WALL BOARD	T.O.	TOP OF
G.L.	GRID LINE	T.O.C.	TOP OF CONCRETE
GR. BM	GRADE BEAM	T.O.F.	TOP OF FOUNDATION/FOOTING
H.1.E.	HOOK ONE END		
H.2.E.	HOOK TWO ENDS	T.O.S.	TOP OF SLAB/STEEL
H&V	HORIZONTAL AND VERTICAL	T.O.W.	TOP OF WALL
		TR.	TRANSFER
HORL.	HORIZONTAL	T.U.L.	TOP UPPER LAYER
HORZ.	HORIZONTAL	TYP.	TYPICAL
HORIZ.	HORIZONTAL	ULS	ULTIMATE LIMIT STATE
H.S.C.	HORIZONTALLY SLOTTED CONNECTION	U.N.O.	UNLESS NOTED OTHERWISE
HT.	HEIGHT	U/S	UNDERSIDE
I.F.	INSIDE FACE	VERT.	VERTICAL
INT.	INTERIOR	Vf	FACTORED SHEAR FORCE
JT.	JOINT		
LG.	LONG	V.S.C.	VERTICALLY SLOTTED CONNECTION
L.L.	LIVE LOAD		
L.L.B.B.	LONG LEGS BACK TO BACK	W/	WITH
		W.P.	WORK POINT
L.L.H.	LONG LEG HORIZONTAL	WT.	WEIGHT
L.L.V.	LONG LEG VERTICAL		

DESIGN CODE

1. THE COMPLETED ELEMENTS SHOWN ON THESE DRAWINGS HAVE BEEN DESIGNED IN SUBSTANTIAL ACCORDANCE WITH THE BCBC 2024 WITH SUBSECTION 4.1.8 OF BCBC 2018 WHICH IS BASED ON THE NATIONAL BUILDING CODE OF CANADA 2020 AND 2015 RESPECTIVELY.

SHOP DRAWINGS

1. AS PART OF OUR FIELD SERVICES, RJC WILL REVIEW SHOP DRAWINGS PERTAINING TO WORK SHOWN ON RJC'S DRAWINGS BY MEANS OF APPROPRIATE RATIONAL SAMPLING PROCEDURES AND COMMENT ON THE ACCURACY WITH WHICH THE CONTRACTOR PREPARED THE DRAWINGS.

2. REVIEW OF SHOP DRAWINGS IS FOR THE SOLE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT AND IS NOT AN APPROVAL OF THE DETAILED DESIGN INHERENT IN THE SHOP DRAWINGS, RESPONSIBILITY FOR WHICH SHALL REMAIN WITH THE CONTRACTOR SUBMITTING THEM. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS AND FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DRAWINGS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INFORMATION PERTAINING TO THE FABRICATION PROCESS, TECHNIQUES FOR CONSTRUCTION AND INSTALLATION, AND FOR CO-ORDINATION OF THE WORK OF ALL SUB-TRADES.

3. SHOP DRAWINGS SHALL BE COMPLETE AND INCLUDE ANY REQUIRED SEALS FROM A PROFESSIONAL ENGINEER REGISTERED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED PRIOR TO SUBMISSION.

4. ALL SHOP DRAWINGS COMPRISING A REVISED SUBMISSION SHALL INDICATE THE REVISED CONTENT BY MEANS OF CLOUDING OR OTHER SUITABLE MARKINGS.

5. REFER TO "SCOPE LIMITATION BY RJC PERTAINING TO CONTRACTORS" IN THE GENERAL NOTES FOR ADDITIONAL SHOP DRAWING CONDITIONS.

LIST OF STRUCTURAL DRAWINGS

DRAWINGS

1. THIS SET OF DRAWINGS SHOWS THE COMPLETED PROJECT. THE DRAWINGS DO NOT SHOW COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND ABOUT THE JOB SITE DURING CONSTRUCTION, AND THE DESIGN AND ERECTION OF ALL TEMPORARY STRUCTURES, FORMWORK, FALSE WORK, SHORING, ETC. REQUIRED TO COMPLETE THE WORK.

2. THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISIONS COLUMN AND ONLY IF SIGNED AND SEALED. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION" IN THE REVISIONS COLUMN, BY READ JONES CHRISTOFFERSEN LTD. THE DRAWINGS SHALL NOT BE USED FOR PRICING OR COSTING UNLESS SO INDICATED IN THE REVISION COLUMN. PRICING OR COSTING DRAWINGS ARE NOT COMPLETE AND ANY PRICES BASED ON PRICING OR COSTING DRAWINGS MUST INCLUDE ALLOWANCES FOR THIS.

3. THE INFORMATION ON THESE DRAWINGS SHALL NOT BE USED FOR ANY OTHER PROJECT OR WORKS. THE INFORMATION ON THESE DRAWINGS APPLIES SOLELY TO THIS PROJECT.

4. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS INCLUDING PROJECT SPECIFICATIONS AND DRAWINGS PROVIDED BY OTHER CONSULTANTS.

5. THE FOLLOWING EXISTING BASE BUILDING DRAWINGS WERE USED IN THE DESIGN OF THIS PROJECT:

   STRUCTURAL: PREPARED BY: WAYTE BLOHM & ASSOCIATES
   DATED: OCTOBER 19, 1992

GENERAL

1. SECTION MARK SHOWN THUS 4/3 MEANS SECTION #4 ON DRAWING S-3.

2. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, NAILERS, INSERTS, ETC., TO BE ENCASED IN CONCRETE.

3. SEE ARCHITECTURAL DRAWINGS FOR FLOOR AND ROOF ELEVATIONS, RECESSES, DRAINAGE SLOPES, ETC.

4. THE GENERAL CONTRACTOR SHALL REVIEW ALL THE DRAWINGS AND CHECK DIMENSIONS BEFORE CONSTRUCTION. REPORT DISCREPANCIES BETWEEN STRUCTURAL AND OTHER DISCIPLINES DRAWINGS FOR CLARIFICATION.

5. <u>CONCRETE WORK</u>
   SHALL CONFORM TO CSA A23.1, CSA A23.2, CSA A23.3 AND REFERENCED DOCUMENTS.

6. <u>FIRE RESISTANCE RATINGS</u>
   SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PRECISE LOCATION OF REQUIRED FIRE RESISTANCE RATINGS.

7. DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS WITHOUT WRITTEN PERMISSION OF RJC.

8. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND LANDSCAPE DRAWINGS FOR LOCATIONS, CONFIGURATIONS, EXTENT, AND SIZES OF ALL CURBS, UPSTANDS, DOWNTURNS; AND FOR OPENINGS THROUGH FLOORS AND WALLS FOR DUCTS, CONDUIT AND PIPING. PROVIDE FOR SAME.

9. <u>DEFINITIONS</u>:

   A. <u>RJC</u>: READ JONES CHRISTOFFERSEN OR ITS REPRESENTATIVE.

   B. SPECIALTY STRUCTURAL ENGINEER: FOR THE PURPOSE OF THESE DRAWINGS, SPECIALTY STRUCTURAL ENGINEER SHALL REFER TO RJC, U.N.O. RJC HAS BEEN RETAINED BY THE CITY OF COQUITLAM TO PROVIDE ENGINEERING SIGN OFF FOR THE SUPPORT AND SEISMIC RESTRAINT OF THE ROOF TOP AND AIR HANDLING UNITS SHOWN ON THESE DRAWINGS.

      THE CONTRACTOR SHALL ENGAGE AND PAY FOR A SPECIALTY STRUCTURAL ENGINEER TO DESIGN AND FIELD REVIEW THE SEISMIC RESTRAINT OF MECHANICAL AND ELECTRICAL ELEMENTS AND OPERATIONAL AND FUNCTIONAL COMPONENTS NOT SHOWN ON THESE DRAWINGS. THIS INCLUDES BUT IS NOT LIMITED TO PIPING, DUCTS, CONDUIT AND CABLES.

   C. <u>GENERAL CONTRACTOR</u>: FOR THE PURPOSES OF THESE DRAWINGS, THE USE OF THE TERM "CONTRACTOR" OR "GENERAL CONTRACTOR" SHALL REFER TO THE PRIME PERSON OR COMPANY RESPONSIBLE FOR CONSTRUCTION OF THE PROJECT AND THE COORDINATION OF TRADES AND SUBCONTRACTORS. THIS MAY BE THE GENERAL CONTRACTOR, OR A CONSTRUCTION MANAGER.

   D. <u>EMBEDMENT</u>: UNLESS OTHERWISE NOTED COMPRESSION EMBEDMENT MEANS A COMPRESSION DEVELOPMENT LENGTH AND TENSION EMBEDMENT MEANS A TENSION DEVELOPMENT LENGTH AS PER CAN/CSA-A23.3 AND AS SHOWN ON THESE GENERAL NOTES DRAWINGS.

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REVISION / ISSUED

	Date	Remarks
1	2024.03.15	ISSUED FOR REVIEW
2	2024.03.26	ISSUED FOR RFP

Professional Seal

EGBC Permit to Practice No. 1002503

CITY CENTRE AQUATIC COMPLEX
1210 PINETREE WAY, COQUITLAM, BC V3B 7T8

Drawn: RBE Designed: OCY
Checked: RJP
Project Number: VAN.137101.0001

Drawing Notes:
1. All drawings, plans, models, designs, specifications and other documents prepared by Read Jones Christoffersen Ltd. ("RJC") and used in connection with this project are instruments of service for the work shown in them (the "Work") and as such are and remain the property of RJC whether the Work is executed or not, and RJC reserves the copyright in them and in the Work executed from them, and they shall not be used for any other work or project.
2. These drawings are "design drawings" only. They may not be suitable for use as shop drawings. Use of these drawings as base drawings for "shop drawings" is not permitted unless written permission containing certain conditions and limitations is obtained from RJC. The work "as constructed" may vary from what is shown on these drawings.
3. Use of these drawings is limited to that identified in the Issued/Revision column. Do not construct from these drawings unless marked "Issued for Construction" by RJC in the Issued/Revision column, and then only for the parts noted. The drawings shall not be used for "pricing" / "costing" unless so indicated in the Issued/Revisions column. "Pricing" or "Costing" drawings are not complete and any prices based on such drawings must allow for this.

GENERAL NOTES

S1.01

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GENERAL NOTES - BUILDING ENVELOPE MATERIALS

LIQUID APPLIED MEMBRANE:

SHALL BE COMPOSED OF POLYESTER FLEECE REINFORCEMENT ENCAPSULATED WITH A POLYMETHYL METHACRYLATE (PMMA) RESIN. APPROVED PRODUCT:

1. ALSAN RS 230 BY SOPREMA
2. PARAPRO 123 BY SIPLAST

PREFINISHED METAL FLASHINGS:

CARBON STEEL: G90 GALVANIZED STEEL SHEET TO ASTM A653/A653M, COMMERCIAL QUALITY WITH ZINC COATING. THICKNESS OF SHEET METAL TO BE 24 GAUGE (0.6070MM) UNLESS OTHERWISE NOTED.

FASTEN METAL FLASHING COMPONENTS AS PER RCABC GUIDELINES.

MINERAL FIBRE BATT INSULATION:

TO ASTM C665, TYPE 1, FRICTION FIT, FIBRES MANUFACTURED FROM GLASS OR SLAG. FLAME SPREAD/ SMOKE DEVELOPED VALUES: 0 / 0 TO CAN/ULC-S102.2, ASTM E84. COMBUSTIBILITY: NON-COMBUSTIBLE TO CAN/ULC-S114, ASTM E136.

1. COMFORTBATT BY ROCKWOOL

SEALANTS:

JOINT CLEANER: XYLOL, METHYLETHYLKETONE, ALCOHOL, OR NON-CORROSIVE TYPE RECOMMENDED BY SEALANT MANUFACTURER AND COMPATIBLE WITH JOINT FORMING MATERIALS.

JOINT BACK-UP: ROUND CLOSED CELL FOAM, EXTRUDED POLYOLEFIN. SHORE A HARDNESS OF 20, TENSILE STRENGTH 140 TO 200 KPA, OVERSIZED 30-50%, COMPATIBLE WITH SEALANT AND PRIMER, NON-ADHERING TO SEALANT, AND NON-GASSING.

PRIMERS: TYPES RECOMMENDED BY SEALANT MANUFACTURER.

APPROVED SEALANTS:

FOR METAL TO METAL APPLICATION, STANDARD OF ACCEPTANCE:

ONE-PART SILICONE TO CAN/CGSB 19.13:

1. SPECTREM 2 BY TREMCO.
2. 795 BY DOW CORNING.

METAL TO CONCRETE/ CONCRETE BLOCK APPLICATION, STANDARD OF ACCEPTANCE:

ONE-PART POLYURETHANE, TO CAN/CGSB 19.13:

1. DYMONIC 100 BY TREMCO
2. MASTERSEAL NP1 BY BASF

METAL TO GYPSUM SHEATHING:

1. DYMONIC 100 BY TREMCO
2. MASTERSEAL NP1 BY BASF

WALL MEMBRANE:

SELF-ADHERING SBS RUBBERIZED ASPHALT COMPOUND INTEGRALLY LAMINATED TO POLYETHYLENE OR POLYPROPYLENE FILM. ACCEPTABLE PRODUCTS:

1. PERM-A-BARRIER WALL MEMBRANE BY GRACE
2. SOPRASEAL STICK 1100T BY SOPREMA
3. BLUESKIN SA BY HENRY
4. JIFFYSEAL 140/60 BY PROTECTOWRAP COMPANY

ENSURE COMPONENTS OF ROOF AND WALL SYSTEMS ARE COMPATIBLE WITH ADJOINING MATERIALS UNDER APPLICATION AND SERVICE, AS DEMONSTRATED BY THE MANUFACTURERS.

CONTRACTOR TO CONFIRM THE LOCATION OF THE EXISTING AIR AND VAPOUR BARRIERS. NOTIFY RJC OF INADEQUACIES OR DETERIORATION SO THAT ISSUES MAY BE ADDRESSED. AREAS OF THE AIR AND VAPOUR BARRIERS THAT ARE COMPROMISED TO ACCOMMODATE CONSTRUCTION MUST BE REINSTATED TO MEET THE ORIGINAL DESIGN INTENT OR ALTERED BY RJC.

SURFACE PREPARATION OF SUBSTRATES AND ENVIRONMENTAL REQUIREMENTS FOR APPLICATION OF MATERIALS ARE TO CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS UNLESS NOTED OTHERWISE.

ROOFING WORK TO CONFORM TO THE LATEST GUARANTEE STANDARDS OF THE ROOFING CONTRACTORS ASSOCIATION OF BRITISH COLUMBIA (RCABC) UNLESS MODIFIED BY THE CONTRACT DOCUMENTS TO EXCEED THOSE MINIMUMS.

SHEATHING BOARD:

GYPSUM BOARD SHEATHING TO CSA A82.27, MINIMUM 12.7 mm (1/2") THICK; 1200 mm x 2400 mm (4' x 8') SHEETS; STANDARD CORE; GLASS MAT FACED. ACCEPTABLE PRODUCTS:

1. DENS DECK PRIME BY GEORGIA PACIFIC CANADA LTD.

VAPOUR RETARDER:

SINGLE-PLY SELF-ADHERED BITUMINOUS MEMBRANE CONSISTING OF MINIMUM 0.8 mm SBS MODIFIED BITUMEN WITH SILICONE RELEASE FILM. ACCEPTABLE PRODUCTS:

1. SOPRAVAP'R BY SOPREMA
2. SA VAPOUR RETARDER BY SIPLAST OR APPROVED SUBSTITUTION

SPRAY FOAM INSULATION:

ULC CERTIFIED SPRAYED/FROTHED RIGID CLOSED CELL URETHANE FOAM TO CAN/ULC S705.1 WITH PROPERTIES INDICATED BELOW AND MEETING NATIONAL RESEARCH COUNCIL (NRC) REQUIREMENTS FOR A TYPE III AIR BARRIER. APPROVED PRODUCTS:

1. HEATLOK SOYA HFO BY DEMILEC INC
2. POLARFOAM 7300-00 SOYA HFO BY DEMILEC INC.
3. WALLTITE CM01 BY BASF CANADA.

RIGID INSULATION:

DESCRIPTION: CLOSED CELL POLYISOCYANURATE FOAM CORE, FACERS TO BE FREE OF ORGANIC FIBRES. POLYISOCYANURATE INSULATION: TO CAN/CGSB 51.26, CAN/ULC-S704-01, TYPE 2, THICKNESS AS NOTED. APPROVED PRODUCT:

1. SOPRA-ISO PLUS BY SOPREMA
2. PARATHERM BY SIPLAST

SUBMIT SHOP DRAWINGS FOR TAPERED INSULATION.

INSULATION OVERLAY / PROTECTION BOARD:

DESCRIPTION: MULTI-PLY, SEMI-RIGID ASPHALTIC OVERLAY BOARD TO CAN/CSA-A247-M, TYPE 1, ACCEPTED PRODUCT:

1. SOPRABOARD BY SOPREMA INC.
2. PROTECTBOARD BY IKO INDUSTRIES

MODIFIED BITUMEN MEMBRANES:

TWO (2) PLY SYSTEM MADE FROM PREFABRICATED MODIFIED BITUMEN MEMBRANES CONTAINING MINIMUM 13% OF ELASTOMER STYRENE BUTADIENE STYRENE (SBS) AND REINFORCED WITH NON-FLAMMABLE, FIREPROOF AND STRESS-RESISTANT INSERT OF GLASS FIBRE AND POLYESTER COMPOSITE, TORCH APPLIED. ACCEPTED PRODUCTS:

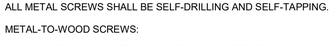
1. SOPRAPLY BASE 520 BY SOPREMA (BASE SHEET) AND SOPRAPLY TRAFFIC CAP BY SOPREMA (CAP SHEET)
2. PARADIENE 20TG BY SIPLAST (BASE SHEET) AND PARPFOR 30 TG BY SIPLAST (CAP SHEET)

PRIMERS AND ADHESIVES: AS RECOMMENDED BY MEMBRANE MANUFACTURER

UNISTRUT FRAMING NOTES

1. "UNISTRUT" SHALL REFER TO PRODUCTS MANUFACTURED BY ATKORE INC. AS PART OF THE UNISTRUT METAL FRAMING SYSTEM.
2. UNISTRUT MEMBERS WILL BE REFERENCED AS FOLLOWS:
   A. "P1000" DENOTES UNISTRUT P1000 MEMBER
   B. "P1546" DENOTES UNISTRUT P1546 FITTING.
3. UNISTRUT MEMBERS THROUGHOUT THE DRAWING PACKAGE WILL BE SHOWN AS FOLLOWS:

   CLOSED FACE (NOT SLOTTED)

   OPEN FACE
4. UNISTRUT MAY BE SUBSTITUTED WITH THE EQUIVALENT UBS INDUSTRIES CHANNEL FRAMING MEMBERS. FOR EXAMPLE, UNISTRUT P1000 MEMBERS CAN BE SUBSTITUTED FOR UBS INDUSTRIES CH1000.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT ORDERING OF ALL UNISTRUT HARDWARE, INCLUDING NUTS, BOLTS, SCREWS AND MISCELLANEOUS CONNECTION HARDWARE TO FIT UNISTRUT FRAMING MEMBERS AND FITTINGS AS SHOWN ON THE DRAWINGS.
6. ALL GENERAL FITTINGS FOR UNISTRUT METAL FRAMING SYSTEM SHALL BE SUPPLIED WITH 13mm x 23.8mm (1/2" x 15/16") HEX HEAD CAP SCREWS AND 13mm (1/2") CHANNEL NUTS TO FIT ALL AVAILABLE BOLT HOLES.
7. THE FOLLOWING ANGULAR FITTINGS ARE CONSIDERED EQUIVALENT:
   A. 2 BOLT FITTING W/ BRACE ANGLE AT 45deg: P1546, P1843, SPF 200, SPF 100
   B. 2 BOLT FITTING W/ BRACE ANGLE BETWEEN 30deg & 60deg: P2097 THRU P2100, P1843, SPF 2000
   C. 4 BOLT FITTING W/ BRACE ANGLE AT 45deg: P2265, P1354
   D. 4 BOLT FITTING W/ BRACE ANGLE BETWEEN 30deg & 60deg: P2267 THRU P2263, P1354
8. ALL UNISTRUT MEMBERS, GENERAL FITTINGS, CLAMPS AND FASTENER HARDWARE FOR INDOOR APPLICATIONS TO BE SUPPLIED WITH ELECTROPLATED ZINC (EG) FINISHES, CONFORMING TO ASTM B633, TYPE III SCI (ZINC COATING THICKNESS OF 0.2 MIL).
9. ALL UNISTRUT MEMBERS, GENERAL FITTINGS, CLAMPS AND FASTENER HARDWARE FOR OUTDOOR APPLICATIONS TO BE SUPPLIED WITH HOT DIP GALVANIZED (HG) FINISHES, CONFORMING TO ASTM A123 OR A153 (ZINC COATING THICKNESS OF 2.6 MIL).
10. CONTRACTOR SHALL PROVIDE RJC WITH A WRITTEN REQUEST FOR ANY ALTERNATIVE UNISTRUT MEMBERS, GENERAL FITTINGS, CLAMPS AND FASTENER HARDWARE, U.N.O.
11. THE UNISTRUT P1000T MEMBER WITH A SLOTTED FACE IS NOT A SUITABLE ALTERNATIVE TO THE UNISTRUT P1000 MEMBER, U.N.O.
12. CONTRACTOR TO INSTALL UNISTRUT P2860 END CAPS AT ANY LOCATIONS WHERE UNISTRUT MEMBERS EXTEND BELOW 2000 (6'-8") A.F.F. U.N.O.
13. CONTRACTOR SHALL PROVIDE RJC WITH A WRITTEN REQUEST FOR ANY ALTERNATIVE FRAMING OR BRACING SCHEMES NOT SHOWN ON THE DRAWINGS.
14. ENGINEERING COSTS RELATED TO THE REVIEW AND DESIGN OF ANY SIGNIFICANT SUBSTITUTIONS OR REQUESTS FOR ALTERNATIVES SHALL BE PAID FOR BY THE CONTRACTOR. CLASSIFYING A SUBSTITUTION OR REQUEST FOR ALTERNATIVE AS SIGNIFICANT IS AT THE DISCRETION OF RJC.

SCOPE LIMITATION BY RJC PERTAINING TO CONTRACTORS

THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL ENGAGE RJC DIRECTLY FOR THE FOLLOWING SCOPE ITEMS UNDER A SEPARATE CONTRACT BETWEEN THE INVOLVED CONTRACTOR AND RJC. THIS SCOPE OF WORK IS IN ADDITION TO RJC'S CONTRACT WITH THE OWNER. THESE ITEMS ARE RELATED TO MEANS AND METHODS OF CONSTRUCTION AND TO DEFICIENCIES. THE SCOPE OF ITEMS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

1. REVIEW OR REDESIGN ASSOCIATED WITH DEFICIENCIES OBSERVED ON SITE OR ALTERNATIVES PROPOSED BY THE CONTRACTOR.
2. SHOP DRAWINGS:
   A. REVIEW OF SHOP DRAWINGS WHICH REQUIRES MORE THAN ONE ROUND OF "REVISE AND RE-SUBMIT".
   B. REVIEW OF RE-SUBMITTED SHOP DRAWINGS ON WHICH REVISIONS HAVE NOT BEEN CLOUDED OR OTHERWISE SUITABLY IDENTIFIED.
3. PROCESSING OF ELECTRONIC FILES SUCH AS CAD AND BUILDING INFORMATION MODELS FOR THEIR USE AS SHOP DRAWINGS, MODELING AND INTERFERENCE CHECKS.
4. RE-DESIGN TO SUIT EQUIPMENT:
   A. REDESIGN OF STRUCTURAL DETAILS SHOWN ON THE CONTRACT DRAWINGS FOR MECHANICAL OR ELECTRICAL IF THE SIZE OR WEIGHT OR ATTACHMENT REQUIREMENTS OF THE UNIT AT FINAL APPROVED SHOP DRAWINGS IS DIFFERENT THAN THE SHOP DRAWINGS PROVIDED FOR THE CONTRACT DOCUMENTS.
5. REVIEW OF STRUCTURAL CAPACITY OF BASE BUILDING ELEMENTS DUE TO CONTRACTOR MEANS AND METHODS OF CONSTRUCTION:
   A. SCISSOR LIFTS ON FLOORS AND OTHER LIFTING EQUIPMENT FOR OVERHEAD WORK.
   B. MOVING OF MECHANICAL EQUIPMENT, OR OTHER OPERATIONAL AND FUNCTIONAL COMPONENTS OF THE BASE BUILDING ACROSS FLOORS AND ROOF TO THEIR FINAL LOCATIONS.
   C. OTHER CONSTRUCTION OR PERMANENT LOADS THAT EXCEED THE LOADING SPECIFIED ON THE CONTRACT DRAWINGS.
   D. REVIEW OF THE PLAZA SLAB STRUCTURE DUE TO MOBILE CRANE AND OUTRIGGER LOADS AND THE INFLUENCE OF THE LOADS ON FOUNDATION WALLS.
6. DESIGN AND FIELD REVIEW OF SEISMIC RESTRAINT FOR SECONDARY STRUCTURAL ELEMENTS AND OPERATIONAL AND FUNCTIONAL COMPONENTS INCLUDING MECHANICAL AND ELECTRICAL ELEMENTS AND OPERATIONAL AND FUNCTIONAL COMPONENTS NOT SHOWN ON THESE DRAWINGS. THIS INCLUDES BUT IS NOT LIMITED TO PIPING, DUCTS, CONDUIT AND CABLES.
7. CONTRACTOR REQUESTED SUBSTITUTION OF PRODUCTS, MATERIALS OR OTHER CHANGES TO RJC DRAWINGS REQUIRING STRUCTURAL REVIEW OR RE-DESIGN, INCLUDING POST-INSTALLED ANCHORS INTO CONCRETE.

RESTRAINT HARDWARE

TYPICAL FASTENERS

1. METAL SCREWS:
   A. #8 HILTI KWIK FLEX
   B. #8 ITW BUILDEX TEKS
   C. #8 GRABBER DRIVALL

   ALL METAL SCREWS SHALL BE SELF-DRILLING AND SELF-TAPPING.
2. METAL-TO-WOOD SCREWS:
   A. #10 ITW BUILDEX TEKS LOW PROFILE FASTENERS (DRILL POINT TYPE A)
3. WOOD-TO-METAL SCREWS:
   A. #10 ITW BUILDEX TEKS SCREWS (DRILL POINT TO SUIT STEEL GAUGE)
4. DRILLED ANCHORS TO CONCRETE:
   A. 1/4" (6 mm) ⌀ ITW TAPCON CONCRETE SCREW EMBED 1 1/4" (32 mm).
   B. 1/4" (6 mm) ⌀ HILTI KIWK-CON II EMBED 1" (25 mm)

NEOPRENE PADS

1. NEOPRENE PADS TO BE 3/4" (20 mm) THICK SUPER W WAFFLE PAD BY MASON INDUSTRIES INC.
2. NEOPRENE PADS TO BE STANDARD 50 DUROMETER SUITABLE FOR UP TO 300 kPa (45 psi) AREA LOAD, UNLESS OTHERWISE NOTED OR APPROVED IN WRITING BY RJC PRIOR TO CONSTRUCTION.
3. HEMI-GROMMETS TO BE INSTALLED WITH ALL ANCHORS OR BOLTS THAT PENETRATE THROUGH NEOPRENE PADS.
4. ALL VIBRATION ISOLATION SNUBBERS AND ISOLATORS TO BE BY MASON INDUSTRIES INC.

GROUT

1. GROUT TO BE TARGET MACHINE BASE (9991106) NON-METALLIC, NON-SHRINK GROUT, OR AN APPROVED ALTERNATE.
2. GROUT IS SUITABLE FOR VOIDS THAT ARE MINIMUM 1/4" (6 mm) THICK.

SHEET STEEL

1. SHEET STEEL SHALL CONFORM TO ASTM A635/653M-01a.
   A. DESIGN THICKNESS LESS THAN OR EQUAL TO 1.146mm (0.0451") GRADE A Fyy = 230 MPa (33 KSI)
   B. DESIGN THICKNESS GREATER THAN OR EQUAL TO 1.438mm (0.0566") GRADE D Fy = 350 MPa (52 KSI)

WOOD

1. 2 x WOOD TO BE SPF No.1/No.2 GRADE OR BETTER.
2. PLYWOOD TO BE DOUGLAS FIR (DFP) REGULAR GRADES OF UNSANDED.
3. NAILS SHALL BE COMMON ROUND STEEL WIRE NAILS OR PNEUMATIC NAILS (P NAILS) WITH MINIMUM DIAMETERS PER THE FOLLOWING TABLE. NAILS ARE CALLED UP BY LENGTH AND SHALL CONFORM TO THE FOLLOWING TABLE:

LENGTH	PENNY WEIGHT	NAIL DIAMETER
2" (51 mm)	6d	0.113" (2.87 mm)
2 1/2" (64 mm)	8d	0.131" (3.33 mm)
3" (76 mm)	10d	0.148" (3.76 mm)
3 1/4" (83 mm)	12d	0.148" (3.76 mm)
3 1/2" (89 mm)	16d	0.162" (4.11 mm)
4" (102 mm)	20d	0.192" (4.88 mm)
4 1/2" (114 mm)	30d	0.207" (5.26 mm)
5" (127 mm)	40d	0.226" (5.74 mm)

NOTE: 3" X 0.131" NAILS MAY BE SUBSTITUTED FOR 3" X 0.148" NAILS PROVIDED ADDITIONAL NAILS ARE USED OR THE SPECIFIED NAIL SPACING IS REDUCED PER THE FOLLOWING TABLE:

3" X 0.148" NAIL SPACING SPECIFIED ON DRAWINGS	3" X 0.131" NAIL SPACING (20% MORE NAILS REQUIRED)
300 mm	250 mm
250 mm	200 mm
200 mm	150 mm
150 mm	125 mm
100 mm	75 mm
75 mm	64 mm
50 mm	NOT APPLICABLE

4. ALL FASTENERS AND CONNECTION HARDWARE THROUGH PRESERVATIVE TREADED MATERIALS OR OUTSIDE OF THE MOISTURE BARRIER TO BE HOT DIPPED GALVANIZED OR STAINLESS STEEL AS SPECIFIED.

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REVISION / ISSUED

	Date	Remarks
1	2024.03.15	ISSUED FOR REVIEW
2	2024.03.26	ISSUED FOR RFP

Professional Seal

2024-03-26

EGBC Permit to Practice No. 1002503

CITY CENTRE AQUATIC COMPLEX
1210 PINETREE WAY, COQUITLAM, BC V3B 7T8

Drawn: RBE Designed: OCY
Checked: Checker
Project Number: VAN.137101.0001

Drawing Notes:
1. All drawings, plans, models, designs, specifications and other documents prepared by Read Jones Christoffersen Ltd. ("RJC") and used in connection with this project are instruments of service for the work shown in them (the "Work") and as such are and remain the property of RJC whether the Work is executed or not, and RJC reserves the copyright in them and in the Work executed from them, and they shall not be used for any other work or project.
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GENERAL NOTES

S1.02

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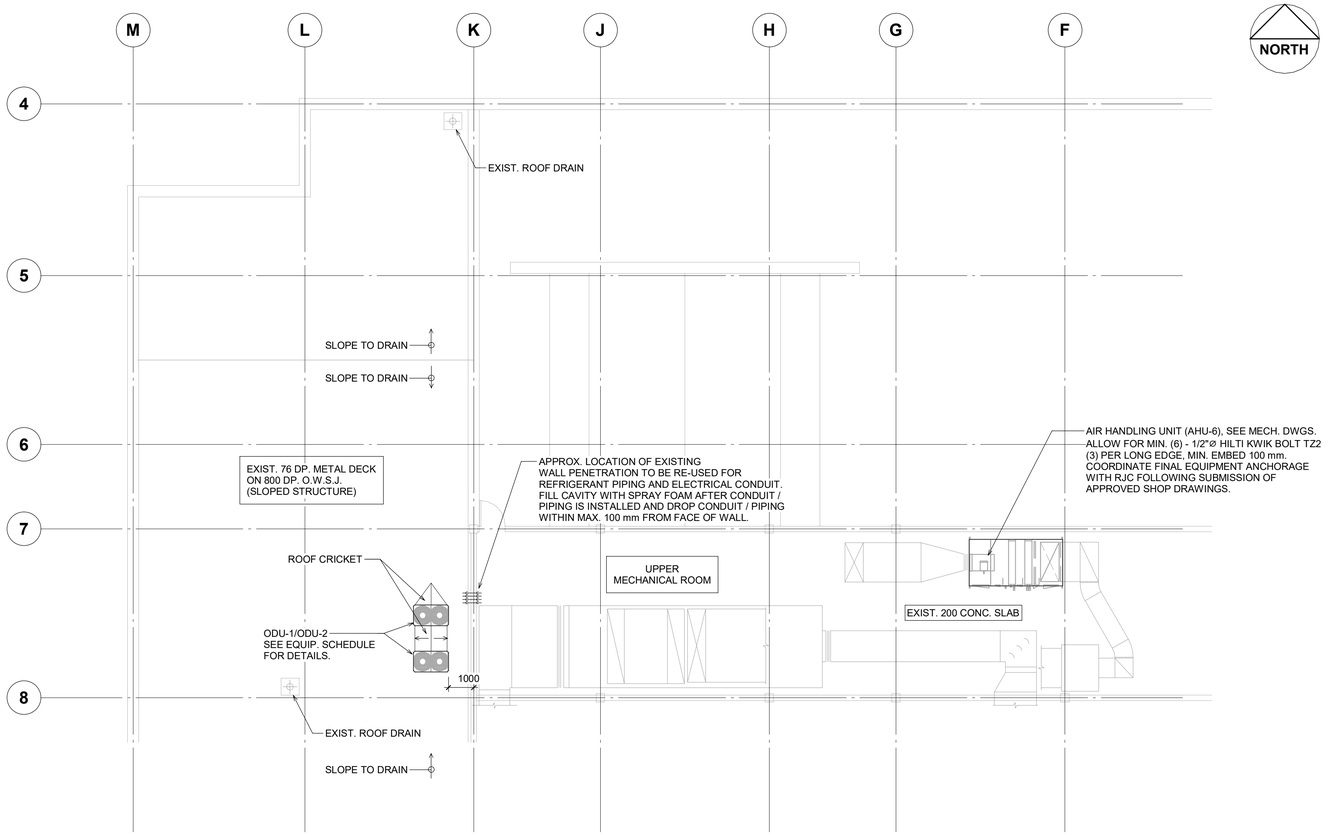

1 / S2.01 **PARTIAL UPPER FLOOR DRY PENTHOUSE PLAN**
1 : 100

EXISTING ROOF ASSEMBLY (ASSUMED)

1-PLY GRANULATED SBS MODIFIED BITUMEN MEMBRANE CAP SHEET ON
1-PLY SBS MODIFIED BITUMEN MEMBRANE BASE SHEET.

FIBREBOARD (THICKNESS TO BE SITE VERIFIED)

R20 RIGID INSULATION (THICKNESS TO BE SITE VERIFIED)

VAPOUR BARRIER MEMBRANE

METAL DECKING

NOTE:

CONTRACTOR TO PERFORM A ROOFING CUT TEST TO CONFIRM EXISTING ROOF ASSEMBLY AND COORDINATE WITH RJC FOR REVIEW PRIOR TO NEW ROOF TOP UNIT INSTALLATION.

TYPICAL ROOF ASSEMBLY

1-PLY GRANULATED SBS MODIFIED BITUMEN MEMBRANE CAP SHEET ON
1-PLY SBS MODIFIED BITUMEN MEMBRANE BASE SHEET.

6 mm TORCHABLE OVERLAY BOARD.

2 LAYERS RIGID POLYISOCYANURATE INSULATION (THICKNESS TO MATCH EXISTING).

VAPOUR BARRIER MEMBRANE.

13 mm GYPSUM SHEATHING.

EXISTING METAL DECKING.

EQUIPMENT SCHEDULE

NAME	TAG	MANUFACTURER	MODEL	DIMENSIONS (mm) (L x W x H)	WEIGHT (kg)	SEISMIC RESTRAINT
OUTDOOR UNIT	ODU-1 / ODU-2	MITSUBISHI	PURY-EP144TNU-A-BS	1240 x 740 x 1818	308	SEE S3.01
AIR HANDLING UNIT	AHU-6	ENGINEERED AIR	LM10/C	3480 x 1651 x 1473	1497	SEE PLAN

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ROOF PLAN

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CITY CENTRE AQUATIC COMPLEX

1210 PINETREE WAY, COQUITLAM, BC V3B 7T8

Drawn: RBE
Designed: OCY
Checked: RJP
Project Number: VAN.137101.0001

S2.01

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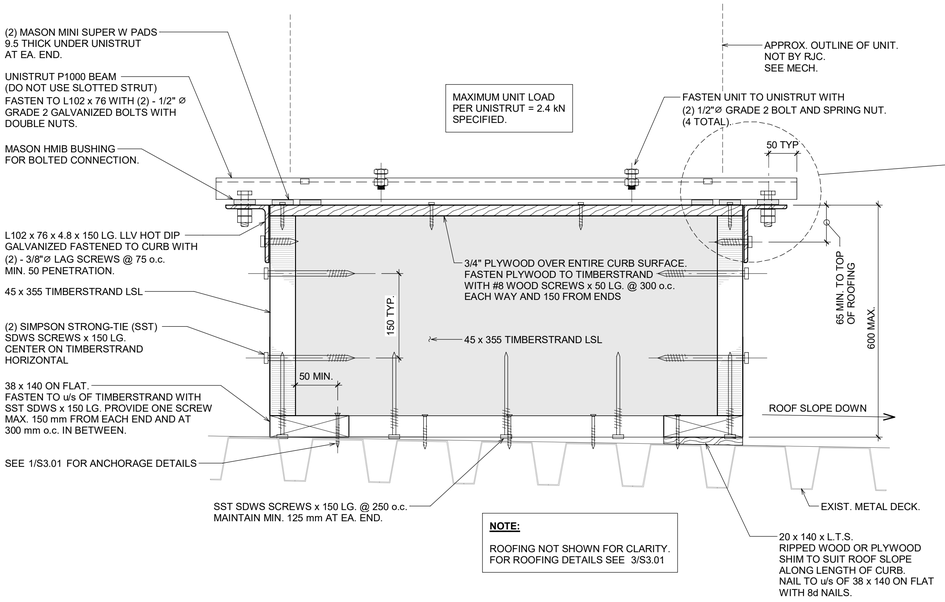
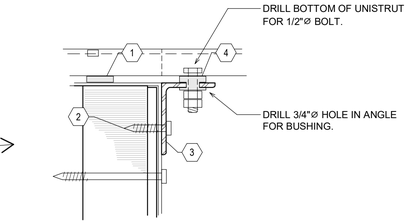


NOTE:

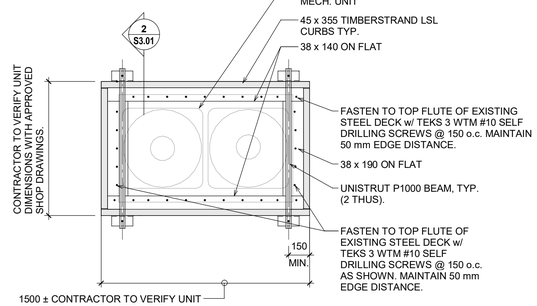
ROOFING NOT SHOWN FOR CLARITY. FOR ROOFING DETAILS SEE 3/S3.01

2/S3.01 ODU - STRUCTURAL TYPICAL SECTION
N.T.S.



CONSTRUCTION SEQUENCE

1. STEP 1: ATTACH UNISTRUT TO UNDERSIDE OF UNIT. PLACE UNIT AND STRUT BEAM ON SUPER W PADS.
2. STEP 2: LOCATE ANGLE TO ALLOW FOR THICKNESS OF HMIB BUSHING. MARK HOLES TO DRILL.
3. STEP 3: BUTTER BACK OF ANGLE WITH COMPATIBLE ROOFING MASTIC SEALANT. ENSURE VISIBLE SEALANT BLEED OUT ALONG TOP EDGE, SIDE EDGES AND BOLT HOLES. APPROVED PRODUCT: SOPRAMASTIC BY SOPREMA
4. STEP 4: DRILL BOTTOM OF UNISTRUT FOR 1/2" Ø BOLT. DRILL 3/4" Ø HOLE IN ANGLE FOR BUSHING. ASSEMBLE BOLT TO ANCHOR WITH HMIB BUSHING AND DOUBLE NUT.

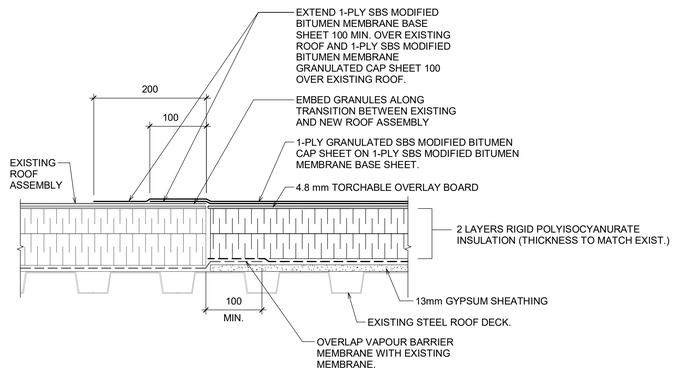


NOTE:

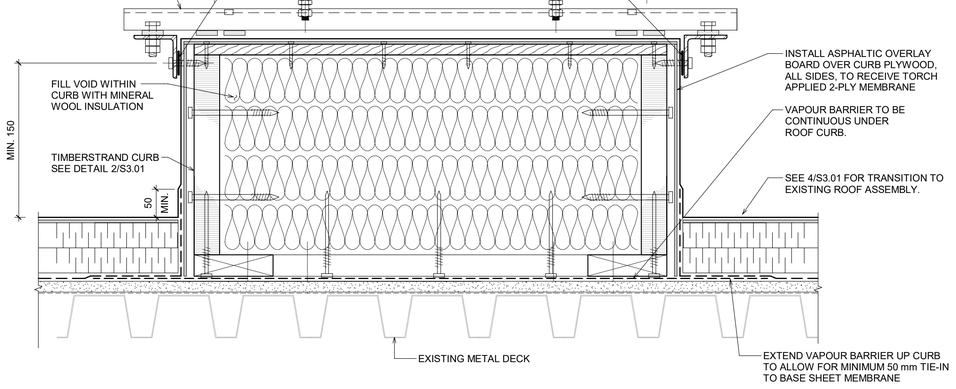
PLYWOOD SURFACE OVER CURB NOT SHOWN FOR CLARITY.

1/S3.01 ODU CURB - PLAN
N.T.S.

5/S3.01 TYPICAL ELECTRICAL CABLE PENETRATION
N.T.S.



4/S3.01 EXISTING TO NEW ROOF ASSEMBLY TRANSITION
N.T.S.



3/S3.01 ODU - ENVELOPE TYPICAL SECTION
N.T.S.

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Professional Seal

PROFESSIONAL ENGINEER J. BENNETT 43017 PROVINCE OF BRITISH COLUMBIA
2024-03-26

EGBC Permit to Practice No. 1002503

CITY CENTRE AQUATIC COMPLEX
1210 PINETREE WAY, COQUITLAM, BC V3B 7T8

Drawn: RBE
Designed: OCY
Checked: Checker
Project Number: VAN.137101.0001

ODU CURB AND ROOFING DETAILS

S3.01

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