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A.F.F. ABV. AD.I		ABOVE FINISH ABOVE	H FLOOR	
ALUM. ARCH.		ALUMINUM		
BALC. BD. BLDG.		BALCONY BOARD BUILDING		
BLK. BM.		BLOCKING BEAM		
C.L. CLG. COI		CENTER LINE CEILING COLUMN		
COMP. CONC.		COMPOSITIO	Ν	
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EL. EQ.		ELEVATION		
EXIST. EXP.		EXISTING EXPANSION		
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F.C. F.F. F P		FIRE CODE FINISH FLOOF	र	
FLASH. FLUOR		FLASHING FLUORESCEN	IT	
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GENERAL NOTES: 1. DRAWINGS ARE NOT TO BE SCALED FOR SIZES OR DIMENSIONS. THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND DIMENSIONS ON SITE AND COORDINATE THE WORK OF ALL OTHER TRADES AND SUB CONTRACTORS PRIOR TO COMMENCEMENT OF WORK. 3. DISCREPANCIES IN DIMENSIONS SHALL BE COMMUNICATED TO THE ENGINEER SO THAT ANY ADJUSTMENTS MAY BE MADE PRIOR TO INSTALLATION. 4. ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE OTHERS AND SPECIFICATIONS; INDIVIDUAL TRADES ARE TO COORDINATE WITH OTHER TRADES AS REQUIRED. WHAT MAY BE INDICATED ON ANY ONE DRAWING SHALL BE DEEMED TO APPLY TO ALL TRADES AS REQUIRED AND NECESSARY. 5. PROTECT YOUR WORK, THE WORK OF OTHER SUB TRADES, EXISTING PROPERTY, ADJACENT PUBLIC AND PRIVATE PROPERTY FROM ANY DAMAGE WHILE DOING WORK. 6. CONTRACTORS FINDING DISCREPANCIES AND / OR OMISSIONS FROM DRAWINGS OR SPECIFICATIONS, OR HAVING DOUBT AS TO MEANING OR INTENT OF ANY PART THEREOF SHOULD AT ONCE INFORM THE ENGINEER/CONSULTANT WHO WILL SEND WRITTEN INSTRUCTIONS OR EXPLANATIONS TO THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE HELD RESPONSIBLE FOR ORAL INSTRUCTIONS. 7. FAILURE OF THE CONTRACTOR TO BRING TO THE ATTENTION OF THE ENGINEER/CONSULTANT ANY ERRORS / OMISSIONS, OR SUCH ITEMS AS APPEAR OBVIOUSLY INCORRECTLY DESCRIBED OR DETAILED, SHALL BE ASSUMED TO INDICATE WILLINGNESS BY THE CONTRACTOR TO ACCEPT THE ORIGINAL INTENT AND MEANING AS MAY BE INTERPRETED BY THE ENGINEER/CONSULTANT. 8. IF THE CONTRACTOR PROCEEDS WITH WORK AFFECTED BY SUCH ERRORS OR OMISSIONS WITHOUT RECEIVING SUCH CLARIFICATION, HE DOES SO AT HIS OWN RISK. ANY ADJUSTMENTS INVOLVING SUCH CIRCUMSTANCES MADE BY THE CONTRACTOR, PRIOR TO APPROVAL BY THE ENGINEER/CONSULTANT, SHALL BE AT THE CONTRACTOR'S RISK AND THE SETTLEMENT OF ANY COMPLICATIONS OR DISPUTES ARISING THERE FROM SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE. 9. THE STARTING OF WORK, BY ANY CONTRACTOR OR SUB CONTRACTOR SHALL BE CONSIDERED EVIDENCE THAT HE HAS INSPECTED AND ACCEPTED ALL CONDITIONS INVOLVED IN HIS WORK AND FINDS THEM SATISFACTORY. 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF BUILDINGS ON THE SITE. 11. THE CONTRACTOR AND HIS SUB CONTRACTORS SHALL LOCATE ANY AND ALL UNDERGROUND OR HIDDEN SERVICES PRIOR TO ANY EXCAVATION OR CUTTING AND SHALL PROTECT SUCH SERVICES FROM DAMAGE. 12. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE MUNICIPAL DEPARTMENTS REGARDING SITE INSPECTIONS AND ENSURE THAT ALL NECESSARY INSPECTIONS ARE DONE BY THE GOVERNING MUNICIPALITY PRIOR TO PROCEEDING WITH SUBSEQUENT WORK. 13. FIRE DEPARTMENT ACCESS AND WATER TO SITE SHALL BE MAINTAINED DURING CONSTRUCTION. 14. THE STRUCTURAL, MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS ARE OF EQUAL IMPORTANCE WITH THE ARCHITECTURAL DRAWINGS IN DEFINING THE SCOPE OF THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER DISCIPLINE WORK. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERING DRAWINGS THAT WOULD CAUSE AN AWKWARD OR IMPROPER INSTALLATION, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER/CONSULTANT FOR CLARIFICATION PRIOR TO INSTALLATION OF THAT WORK. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER OR ENGINEER/CONSULTANT 15. SUBCONTRACTORS FOR EACH TRADE ARE ADVISED THAT INFORMATION PERTINENT TO THEIR WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS. REFER TO CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND OTHER TRADE/DISCIPLINE DRAWINGS FOR ADDITIONAL INFORMATION, GENERAL NOTES, ABBREVIATIONS AND SYMBOLS. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING COMPONENTS. INFORMATION AND NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON ANY ONE SHEET ARE TO BE APPLIED ON RELATED DRAWINGS AND DETAILS 16. FIRE SEPARATIONS MAY NOT BE PIERCED BY ELECTRICAL, MECHANICAL, OR SIMILAR SERVICE OUTLETS EXCEPT IN ACCORDANCE WITH LOCAL BUILDING CODES. 17. OPENINGS FOR NON-COMBUSTIBLE PIPES AND DUCTS SHALL BE RESPONSIBLE FOR ENSURING THAT WHERE THEIR WORK PASSES TROUGH A FIRE SEPARATION, THE OPENING SHALL BE PLUGGED WITH ULC LABELLED AND APPROVED FIRESTOPPING SEALANT, INSULATION, OR OTHER MATERIAL APPROVED BY LOCAL AUTHORITIES HAVING JURISDICTION TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION 18. PROVIDE ALL FIRE BLOCKING, FIRE STOPS AND SMOKE STOPS IN FLOORS, WALLS, PLENUMS, ATTICS AND OTHER CONCEALED SPACES IN ACCORDANCE WITH LOCAL BUILDING CODES 19. MAINTAIN THE INTEGRITY OF FIRE RATED DEMISING WALLS WITH GYPSUM BOARD OVER, AROUND AND BEHIND ALL ELECTRICAL AND OR MECHANICAL PENETRATIONS. PROVIDE ACOUSTICAL SEALANT AS REQUIRED FOR SOUND RATING. 20. GENERAL CONTRACTOR TO COORDINATE ALL EQUIPMENT BASE AND HOUSEKEEPING PADS WITH MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS. INSTALL PADS BENEATH THE FULL PROJECTED AREA OF EQUIPMENT. 21. GENERAL CONTRACTOR TO COORDINATE ALL MECHANICAL AND ELECTRICAL FLOOR, ROOF AND WALL SLEEVES AND ALL MECHANICAL SHAFTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS. 22. REFER TO CERTIFIED MECHANICAL AND ELECTRICAL CONTRACTORS DRAWINGS AND MANUFACTURER'S TEMPLATE DRAWINGS FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, BOLT SETTING TEMPLATES, ISOLATIONS, SPRING ISOLATION ITEMS, ETC., NOT SHOWN ON THE DRAWINGS BUT REQUIRED FOR INSTALLATION OF THE SYSTEM. CONTRACTOR SHALL BE DEEMED TO HAVE ALLOWED IN HIS TENDER FOR ALL NECESSARY WORKS IN ACCORDANCE. 23. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL BLOCKING, STIFFENERS, BRACINGS, BACKING PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE PROPER INSTALLATION OF ALL CASEWORK, WASHROOM ACCESSORIES, TOILET PARTITIONS, RADIANT HEAT SYSTEMS, AS WELL AS ALL WALL-MOUNTED OR SUSPENDED MECHANICAL, ELECTRICAL, SECURITY, AND/OR MISCELLANEOUS EQUIPMENT INCLUDING OWNER SUPPLIED ITEMS. CONTRACTOR SHALL BE DEEMED TO HAVE ALLOWED FOR THESE IN HIS TENDER WHETHER DETAILED ON THE CONTRACT DOCUMENTS OR NOT. 24. CONTRACTOR TO ENSURE THAT ALL BLOCKING, NAILERS, ANCHORS, SLEEVES, INSERTS, AND ACCESSORIES SUPPLIED OR REQUIRED BY OTHER SECTIONS AND SUB CONTRACTORS ARE COORDINATED AND INSTALLED WITH THE WORK. 25. WHEN REFERENCE IS MADE TO A PARTICULAR MANUFACTURED SYSTEM, ALL PARTS AND MATERIALS APPLICABLE SHALL BE SUPPLIED AND INSTALLED AS PER ENGINEER/CONSULTANT AND MANUFACTURER'S PRINTED INSTRUCTIONS. 26. MANUFACTURED ARTICLES SHALL BE USED OR APPLIED IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS AND SHALL BE HANDLED AS DIRECTED. LABELS SHALL NOT BE REMOVED FROM CANS, BOXES AND CARTONS, ETC., WHEN DELIVERED TO SITE. ALL MATERIALS SHALL BE NEW AND OF THE BEST QUALITY 27. PROVIDE COMPLETE, FULLY TESTED AND OPERATIONAL MECHANICAL AND ELECTRICAL SYSTEMS TO MEET REQUIREMENTS DESCRIBED HEREIN AND IN COMPLETE ACCORD WITH APPLICABLE CODES AND ORDINANCES. INCLUDE ALL NECESSARY ACCESSORIES AND FITTINGS. WORK IS CONSIDERED COMPLETE ONLY WHEN SYSTEM IS FULLY FUNCTIONAL. 28. PROVIDE ACCESS PANELS AS REQUIRED BY APPLICABLE CODES AND AS REQUIRED FOR MECHANICAL EQUIPMENT. THE CONTRACTOR SHALL BE DEEMED TO HAVE ALLOWED FOR THESE IN HIS TENDER WHETHER OR NOT THEY ARE INDICATED ON THE CONTRACT DOCUMENTS. ALL ACCESS PANEL LOCATIONS SHALL BE REVIEWED WITH THE ENGINEER/CONSULTANT PRIOR TO PROCEEDING. 29. CABINET SUPPLIER TO FIELD MEASURE AREA OF WORK AFTER ROUGH FRAMING TO ENSURE AN EXACT FIT. 32. ALL DISSIMILAR MATERIALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER WITH PROTECTIVE SEALANTS AND COATINGS AS REQUIRED TO AVOID BREAKDOWN. 33. ALL EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT PENETRATIONS OF UTILITIES THROUGH THE ENVELOPE, SHALL BE SEALED, CAULKED AND WEATHER-STRIPPED AS REQUIRED TO PREVENT AIR AND WATER LEAKAGE/INFILTRATION AND TO ENSURE A PROPERLY SEALED BUILDING ENVELOPE. 34. ALL EXTERIOR HANDRAILS AND EXTERIOR EXPOSED METAL SHALL BE GALVANIZED AND PAINTED UNLESS NOTED OTHERWISE.

- 36. ALL WORK THE OWNER OR ENGINEER/CONSULTANT DEEMS TO BE DEFECTIVE SHALL BE REMOVED AND REPLACED WITH NEW MATERIAL AND
- WORKMANSHIP AT THE RESPECTIVE CONTRACTOR'S EXPENSE. 37. THE OWNER OR ENGINEER/CONSULTANT SHALL NOT BE HELD LIABLE FOR ANY LOSS OR DAMAGE CAUSED BY CONTRACTORS.

DRAWING SYMBOLS



DESCRIPTION

NEW DATUM ELEVATION

DOOR NUMBER

WALL TYPE

FIRE RATED WALL / FIRE SEPARATION

GLAZING TYPE

CEILING HEIGHT AND MATERIAL TYPE

REVISION AREA AND SYMBOL

DIMENSION TO FACE

DIMENSION TO CENTERLINE

DRUMHELLER AQUAPLEX

DOOR RELOCATION

Drumheller, AB

LIST OF DRAWINGS

ARCHITECTURAL

- A0.1 GENERAL NOTES, ABBREVATIONS & SYMBOLS
- A1.0 MAIN FLOOR PLAN A1.1 ENLARGED PLAN & DETAILS

STRUCTURAL

S0.0 GENERAL NOTES S1.0 PARTIAL MAIN FLOOR PLAN & DETAILS

BUILDING CODE ANALYSIS:

BASED ON ALBERTA BUILDING CODE, 2019 NOTE: THESE COMMENTS ARE PREPARED FOR THE PURPOSE OF THE APPROVAL AUTHORITIES REVIEW. CONTRACTORS ARE CAUTIONED NOT TO USE THESE FIGURES FOR CONSTRUCTION . REFER TO FULL DOCUMENT ASSET FOR EXACT CONSTRUCTION TYPES AND QUANTITIES. MAJOR OCCUPANCY CLASSIFICATION: GROUP A DIVISION 2 3.2.2.25 GROUP A DIVISION 2, UP TO 1 STOREYS - NUMBER OF STOREYS = 1 - FACING 1 STREET - TOTAL BUILDING AREA REMAINS UNCHANGED - SPRINKI FRED' NO - COMBUSTIBLE OR NONCOMBUSTIBLE CONSTRUCTION - EXISTING CONSTRUCTION REMAINS UNCHANGED DESIGN OCCUPANT LOAD: 3.1.17.1 EXISTING OCCUPANT LOAD REMAINS UNCHANGED WATER CLOSETS: 3.7.2.2.-C EXISTING WATER CLOSETS TO REMAIN EXITS: 3.4.2.1 (1) GROUP A, DIVISION 2, NON-SPRINKLERED MORE THAN 1 EXIT REQUIRED EXISTING EXITS REMAIN UNCHANGED TRAVEL DISTANCE 3.4.2.4 EXISTING TRAVEL DISTANCES REMAIN UNCHANGED

	Beairsto & Associates 6
Grande Prairie 10940-92 Ave, Grande Prairie, AB T8V 6B5 Calgary #102,1212-1 St SE, Calgary, AB T2G 2H8 www.baseng.ca P: 780 532 4919 SEAL	
VALIDATION PERMIT TO PRACTIC BEAIRSTO & ASSOCIATES ENGINEERIN RM SIGNATURE: RM APEGA ID #: DATE: PERMIT NUMBER : P243 The Association of Prefessional Engine Geoscientists of Alberta (APEG/ OWNER	CE G LTD. eers and A)
PROJECT	LER
New Door	
No. Description	Date
1 ISSUED FOR TENDER	MAY 30, 2023
NOTES: 1. THIS DRAWING IS NOT TO BE USED FOR CONSTRUSING AND SEALED OR ADVISED IN WRITING BY 2. DO NOT SCALE THIS DRAWING. 3. VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS P COMMENCEMENT OF WORK. REPORT ANY DISCRED OMISSIONS TO THE ENGINEER IMMEDIATELY. 4. ALL WORK MUST COMPLY WITH THE MOST RECEN APPLICABLE BUILDING CODE, AND ANY OTHER GO AUTHORITY.	ICTION UNTIL THE ENGINEER. RIOR TO EPANCIES OR T EDITION OF THE VERNING
DRAWN BY: CHECKED BY: ENGINEER: D. McGrath, P.ENG. PROJECT No: 22CEBD1024 DATE: May 2023 SCALE: As indicated	
General Notes, List of Drawings Code Analysis	5,
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No.	Description	Date
4	Issued for Tender Issued For Review	May 30, 2023
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3 2 1	Issued For Review Issued for Review	Feb 15, 2023 Sep 22, 2022
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2

Door Elevation - Interior Side A1.1 / 3/8" = 1'-0"



1. EXECUTE DEMOLITION IN A SAFE AND CAREFUL MANNER TO MINIMIZE DAMAGE TO EXISTING COMPONENTS WHICH ARE TO REMAIN. 2. DEMOLISH OPENING IN EXISTING CONCRETE BLOCK WALL AS REQUIRED TO

FACILITATE INSTALLATION OF NEW DOOR. REFER TO DIMENSIONED ARCHITECTURAL AND STRUCTURAL PLANS. 3. DEMOLISH PORTION OF GRADE BEAM AS REQ'D FOR DOOR OPENING. PATCH,

REPAIR & MAKE GOOD ALL AREAS AFFECTED BY DEMOLITION. REFER TO STRUCTURAL. 4. REMOVE AND SALVAGE EXISTING EXIT SIGN FOR REINSTALLATION AT NEW DOOR LOCATION.

5. REMOVE AND MODIFY PORTION OF GUARDRAIL AT SOUTHWEST SPECTATOR AREA TO ALLOW FOR ACCESS TO EXIT. CONSULT WITH AHJ FOR APPROVAL ON MODIFICATIONS TO MEET EGRESS REQUIREMENTS.

6. PATCH, REPAIR AND MAKE GOOD ALL AREAS AFFECTED BY DEMOLITION AND CONSTRUCTION.

EXIT LIGHT NOTES

1.0 RELOCATE EXIT LIGHT AS INDICATED, IN ACCORDANCE WITH THE NATIONAL BUILDING CODE - ALBERTA EDITION.

2.0 CONNECT FIXTURES TO EXIT LIGHT CIRCUITS AND TO EMERGENCY POWER SOURCE AS INDICATED. 3.0 ENSURE THAT EXIT LIGHT CIRCUIT BREAKER IS LOCKED IN ON POSITION.

4.0 MOUNTING HEIGHTS OF EXIT LIGHTS TO BE 2500 MM UNLESS NOTED OTHERWISE.

FIRE ALARM NOTES

1.0 THIS PROJECT IS A RENOVATION PROJECT AND REQUIRES FIRE ALARM SYSTEM MODIFICATIONS. THE FIRE ALARM SYSTEM IS LIMITED TO THE RELOCATION OF PULL STATION AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL HIRE THE SERVICES OF THE FIRE ALARM PANEL MANUFACTURER AND BE RESPOSIBLE FOR ANY REQUIRED CONTROL PANEL UPGRADES INCLUDING PROVISION OF NEW BATTERIES AND CIRCUITS TO MEET THE DESIGN AND CODE REQUIREMENTS.

2.0 STANDARDS: .1 CAN/ULC - S524-LATEST EDITION (INSTALLATION) .2 CAN/ULC - S536-LATEST EDITION (INSPECTION AND TESTING) .3 CAN/ULC - S525-LATEST EDITION (AUDIBLE SIGNALS) .4 CAN/ULC - S537-LATEST EDITION (VERIFICATION)

3.0 PROGRAMMING WORK TO BE PERFORMED BY THE MANUFACTURER OR AN APPROVED AGENCY AND RE-VERIFIES BY THE SAME.

4.0 PROVIDE ALL REQUIRED CONDUIT AND WIRING TO COMPLETION OF WORK IN PRESENCE OF FIRE ALARM MANUFACTURER'S REPRESENTATIVE TO ENSURE PROPER OPERATION.

5.0 EMPLOY FIRE ALARM MANUFACTURER FOR FIRE ALARM SYSTEM VERIFICATION TO CAN/ULC S537.

6.0 EMPLOY BEAIRSTO & ASSOCIATES ENG. LTD. TO OVERSEE FIRE ALARM SYSTEM VERIFICATION TO CAN/ULC S537.







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STRUCTURAL STEEL

- 1. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE DESIGNED. FABRICATED AND ERECTED IN ACCORDANCE WITH CISC THE HANDBOOK OF STEEL CONSTRUCTION. LIMIT STATES DESIGN OF STEEL STRUCTURES CAN/CSA-S16-14 AND NATIONAL BUILDING CODE 2019 - ALBERTA EDITION.
- 2. STRUCTURAL STEEL MEMBERS SHALL CONFORM WITH CAN/CSA G40.20/G40.21, UNO.

MEMBER ROLLED W-SHAPES AND TEES

WELDED WIDE FLANGE SECTIONS HOLLOW STRUCTURAL SECTIONS OTHER SHAPES & PLATES BOLTS ANCHOR BOLTS / RODS

HARDENED WASHERS (LOAD INDICATING WASHER) SHEAR STUDS

STEEL FABRICATOR.

HEX NUTS

OR ASTM A992 GR. 50 CSA G40.21 350W CSA G40.21 350W CLASS C CSA G40.21 300W ASTM F3125 GR. A325 ASTM F1554 (APPLICABLE WITH WELDABILITY SUPPLEMENT S1) ASTM A563 ASTM F436 ASTM 29 / ASTM 108 (MILD STEEL)

ASTM A276 (STAINLESS STEEL)

CSA G40.21 350W

3. ALL STEEL FABRICATION IS REQUIRED TO BE COMPLETED BY AN APPROVED

- 4. ALL BOLTS SHALL BE INSTALLED AS BEARING-TYPE CONNECTIONS WITH THREADS EXCLUDED IN SHEAR PLANE (TYPE "X" CONNECTION) UNLESS NOTED OTHERWISE. HIGH-STRENGTH BOLT ASSEMBLIES SHALL BE IN ACCORDANCE WITH THE RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" AND SHALL BE SNUG TIGHTENED USING ANY CISC APPROVED METHOD UNO ALL BOLTS IN SLOTTED OR OVERSIZED HOLES AND ALL HIGH-STRENGTH BOLTS SHALL BE INSTALLED WITH HARDENED WASHERS.
- 5. SEE PLAN NOTES FOR CONNECTION DESIGN REQUIREMENTS.
- 6. GROUT BENEATH COLUMN BASES OR BEARING PLATES SHALL BE 35MPa (5,000 PSI) (MIN) NON-SHRINK FLOWABLE GROUT OR DRYPACK. INSTALL GROUT UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED. AT COLUMNS, INSTALL GROUT UNDER BASE PLATE AFTER COLUMN HAS BEEN PLUMBED BUT PRIOR TO FLOOR OR ROOF INSTALLATION. GROUT DEPTH SHALL BE SUFFICIENT TO ALLOW GROUT OR DRYPACK TO BE PLACED BENEATH PLATE WITHOUT VOIDS. (1 " MIN).

WELDING

- 1. ALL WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF CAN/CSA W59 1 AND FOLLOW THE PREQUALIFIED JOINT DETAILS INCLUDED THEREIN. WELDING OF JOINTS THAT INCLUDE REINFORCING STEEL SHALL CONFORM TO CAN/CSA W186-M1990.
- 2. WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS. CONTRACTOR MAY SHOP WELD OR FIELD WELD AT HIS DISCRETION. ALL COMPLETE JOINT PENETRATION (CJP) WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY.
- 3. CONCTRACTOR TO APPOINT AND PAY FOR SERVICES OF TESTING AGENCY TO PERFORM TESTING AND INPSECTION OF WORK FOR THIS SECTION.
- 4. ALL WELDING ELECTRODES SHALL MEET THE REQUIREMENTS OF CSA
- STANDARD W48 AS APPLICABLE
- 5. WELD LENGTHS CALLED OUT ON PLANS OR DETAILS ARE MINIMUM NET EFFECTIVE LENGTHS UNO.
- 6. ALL MISC. FILLET WELDS NOT NOTED, INCLUDING THOSE FOR STIFFENERS, MISC. LATES, ETC, SHALL BE PER CISC AND CAN/CSA-S16-14.
- 7. MINIMUM WELD SIZE TO BE 6mm (1/4") FILLET ALL AROUND U.N.O.

REINFORCING STEEL

- REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE W/ CAN/CSA 23.3-04 AND THE LATEST EDITION RSIC's MANUAL OF STANDARD PRACTICE.
- 2. REINFORCING STEEL SHALL CONFORM TO CAN/CSA G30.18-M92 GRADE 400 MPa AND 400W (FOR ALL REINFORCING TO BE WELDED) AND SHALL BE DEFORMED BARS UNO.
- 3. WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA G30.5-M1983 FOR SMOOTH WIRE FABRIC AND CAN/CSA G30.15-M1983 FOR DEFORMED WIRE FABRIC. LAPS SHALL BE MADE SUCH THAT THE OVERLAP, MEASURED BETWEEN OUTERMOST CROSS WIRE OF EACH FABRIC SHEET, IS NOT LESS THAN THE SPACING OF CROSS WIRES PLUS 50mm (2").
- ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL. CLEAR COVER SHALL BE AS NOTED BELOW, UNO ON PLANS OR DETAILS.

EXPOSURE CONDITION: COVER CAST AGAINST AND PERMANENTLY 76mm (3") EXPOSED TO EARTH EXPOSED TO EARTH OR WEATHER (INCLUDES SLABS ON GRADE) 15M AND SMALLER 38mm (1-1/2") 20M AND LARGER 50mm (2") NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH STRUCTURAL WALLS, SLABS, AND JOISTS 35M AND SMALLER 19mm (3/4") BEAM AND COLUMN PRIMARY REINF., TIFS. STIRRUPS. AND SPIRALS

LAP SPLICES OF REINFORCING STEEL IN CONCRETE BEAMS, SLABS AND FOOTINGS SHALL BE ACCORDING TO CAN/CSA A23.3 OR LAP SCHEDULE BELOW, UNO. STAGGER SPLICES A MIN OF ONE LAP LENGTH. NO TACK WELDING OF REINFORCING BARS ALLOWED. LATEST CAN/CSA CODE AND DETAILING MANUAL APPLY. PROVIDE BENT CORNER BARS TO MATCH AND LAP W/ HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS WHERE PROVIDED. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES, SPLICE TOP BARS AT CENTER LINE OF SPAN AND BOTTOM BARS AT THE SUPPORT IN SPANDRELS, BEAMS, GRADE

38mm (1-1/2")

BEAMS, ETC, UNO. REBAR LAP SCHEDULE

35M AND SMALLER

BAR SIZE: 400mm (16" 101

5M	600mm (24")
20M	800mm (32")
25M	1000mm (40

- MECHANICAL SPLICE COUPLERS MAY BE USED AS AN ALTERNATE TO LAP SPLICES. COUPLERS SHALL HAVE CURRENT CSA APPROVAL AND SHALL BE CAPABLE OF DEVELOPING 125% OF THE BAR STRENGTH.
- 7. WELDING OF REINFORCING BARS, METAL INSERTS, AND CONNECTIONS SHALL CONFORM TO CAN/CSA W186-M1990 AND SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS. ALL REINFORCING SHALL BE BENT COLD. BARS SHALL ONLY BE BENT ONCE.
- 8. REINFORCING BAR SPACING SHOWN ON PLANS ARE MAX ON CENTERS DOWELALL VERTICAL REINFORCING INTO FOUNDATION SECURELY TIE ALL BARS IN LOCATION PRIOR TO CONCRETE PLACEMENT.
- 9. FOUNDING SURFACE BELOW FOOTINGS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER TO VERIFY THE ALLOWABLE SOIL BEARING CAPACITY

FOUNDATION

1. REFER TO FOUNDATION PLANS FOR ADDITIONAL NOTES

- 2. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER TO CONFIRM AND OFFER RECOMMENDATION/DIRECTION RELATED TO: - EXCAVATION
- SITE PREPARATION - BACKFILL MATERIAL
- COMPACTION REQUIREMENTS - FOUNDING ELEVATION
- 3. ALL SITE PREPARATION, GRADING, COMPACTION TESTS, INSPECTIONS, ETC. SHALL BE FOLLOWED AND COMPLETED PRIOR TO ANY CONCRETE PLACEMENT.
- 4. ALL FILL AND BACKFILL BEING USED FOR SLABS OR OTHER STRUCTURAL APPLICATION SHALL BE TESTED FOR SUITABILITY BY A GEOTECHNICAL ENGINEER.
- 5. NO BACKFILL CONTAINING STONES OVER 76mm (3"), FROZEN MATERIAL, DEBRIS, OR ORGANIC MATTER WILL BE PERMITTED.
- 6. DO NOT EXCAVATE FOR FOOTINGS BELOW A LINE INCLINED DOWN 30 DEGREES FROM NEARBY FOOTINGS UNLESS THE EXCAVATION IS ADEQUATELY BRACED OR APPROVED BY THE ENGINEER.

CONCRETE

- 1. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE. CONTRACTOR SHALL COORDINATE WITH WORK OF ALL OTHER TRADES AND WHERE REQUIRED INSTALL ALL BUILT-IN WORK, SLEEVES, INSERTS, ETC. AS REQUIRED.
- 3. CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE ENGINEER OF RECORD.
- 4. PORTLAND CEMENT SHALL CONFORM TO CAN/CSA A23.1, 23.2 AND 23.3. 5. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT, UNLESS APPROVED BY THE ENGINEER OR AUTHORIZED TESTING AGENCY
- CONTRACTOR SHALL ONLY ADJUST THE MAXIMUM SLUMP BY THE ADDITION OF SUPER-PLASTICIZERS. NO ADMIXTURES SHALL BE USED WITHOUT THE PERMISSION FROM THE ENGINEER OF RECORD.
- 7. CONCRETE BATCHING, MIXING, TRANSPORTATION AND PLACEMENT SHALL BE PER CAN/CSA A23.1 OR A23.4 AS APPLICABLE.
- 8. CONCRETE CONSOLIDATION SHALL BE PER CAN/CSA A23.1 OR A23.4.
- 9. FORM WORK SHALL BE PER CAN/CSA A23.1 OR A23.4 AS APPLICABLE.
- 10. REMOVE ALL DEBRIS FROM FORMS, REINFORCING STEEL AND OTHER EMBEDDED ITEMS PRIOR TO PLACING CONCRETE. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (WALLS OR COLUMNS) SO AS TO CAUSE A SEGREGATION OF AGGREGATES. UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FEET. CARE SHALL BE TAKEN IN PLACING SLABS ON GRADE SO FILL MATERIAL IS NOT DISTURBED.
- 11. ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY POSITIONED IN THE FORMS PRIOR TO PLACING OF CONCRETE.
- 12. CONCRETE SLAB ON GRADE CONTROL JOINTS SHALL BE SAW-CUT CONTROL JOINTS SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED THAT INDICATED IN TYPICAL DETAIL
- 13. EMBEDDED ITEMS SHALL BE PLACED PER CAN/CSA A23.1 OR A23.4 AS APPLICABLE.
- 14. PIPE OTHER THAN ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE ENGINEER. MAX PIPE SIZE SHALL BE 1/3 OF THE SLAB THICKNESS AND LOCATED AT THE MID-DEPTH. MIN SPACING SHALL BE 3 TIMES THE PIPE DIAMETER. PIPES SHALL NOT IMPAIR THE STRENGTH OF THE MEMBER.
- 15. PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH DUE TO COLD OR HOT WEATHER PER CSA-A23.1.
- 16. CONTRACTOR SHALL SUBMIT CONCRETE MIX REPORT WITH COMPRESSION TEST RESULTS TO THE STRUCTURAL ENGINEER FOR REVIEW. REPRESENTATIVE TEST CYLINDERS SHALL BE TAKEN FROM THE CONCRETE IN ACCORDANCE WITH CONCRETE CSA SPECIFICATIONS. TESTING SHALL BE PERFORMED AT 7 AND 28
- 17. VOID FORM SHALL BE GEOSPAN FOR GRADE BEAMS AND PILE CAPS AND GEOVOID FOR STRUCTURAL SLAB BY PLASTI-FAB OR APPROVED ALTERNATE.
- 18. EXTERIOR CONCRETE FOR APRONS, PADS AND SIDEWALKS TO BE BROOM FINISH.
- 19. RECOMMENDATION TO CONTROL SLAB ON GRADE OR CONCRETE OVER STEEL DECK CRACKING:
 - A. 38mm (1-1/2") MAX AGGREGATE SIZE B. CAN/CSA A23.1 OR A23.4 AGGREGATE SPECIFICATION TO PROVIDE A WELL GRADED AGGREGATE MIX. C. CONTRACTION JOINTS SHALL BE SPACED AT 25 TIMES THE SLAB THICKNESS AND NOT MORE THAN 4500mm (14'-9") ON CENTRE IN APPROXIMATELY SQUARE PATTERNS UNLESS SPECIALTY CONCRETE MIXES ARE INVOLVED.

102mm (4") SLAB THICKNESS . 2500mm (8'-4") 127mm (5") SLAB THICKNESS 3000mm (10'-5") 152mm (6") SLAB THICKNESS 3800mm (12'-6") 178mm (7") SLAB THICKNESS OR GREATER 4450mm (14'-7")

CONCRETE SCHEDULE						
ELEMENT	EXPOSURE CLASS	CEMENT TYPE	MINIMUM STRENGTH	MAXIMUM AGGREGATE SIZE	W/C RATIO	AIR ENTRAINMENT
EXTERIOR CONCRETE						
PILES FOOTINGS FOUNDATION WALLS RETAINING WALLS	S-2	HS OR HSb	25 MPa @ 28 DAYS 32 MPa @ 56 DAYS	³ ⁄4" (20mm)	0.45	5% - 8%
GRADE BEAMS PILE CAPS	S-2	HS OR HSb	32 MPa @ 28 DAYS	³ ⁄4" (20mm)	0.45	5% - 8%
COLUMNS PILASTERS	F-2	GU	32 MPa @ 28 DAYS	³ ⁄ ₄ " (20mm)	0.55	4% - 7%
CONCRETE APRONS PARKING SLABS & RAMPS	C-1	GU	32 MPa @ 28 DAYS	³ ⁄ ₄ " (20mm)	0.40	5% - 8%
SIDEWALKS CURBS & GUTTERS SPLASH PAD	C-2	GU	32 MPa @ 28 DAYS	³ ⁄4" (20mm)	0.45	5% - 8%
MUD SLABS	S-2	HS OR HSb	5 MPa @ 28 DAYS	³ ⁄ ₄ " (20mm)	0.45	5% - 8%
INTERIOR CONCRETE						
SLAB ON GRADE	N	GU	32 MPa @ 28 DAYS	³ ⁄ ₄ " (20mm)	NOTE 1	N/A
STRUCTURAL SLAB	N	GU	35 MPa @ 28 DAYS	³ ⁄4" (20mm)	NOTE 1	N/A
SUMP PITS	N	GU	32 MPa @ 28 DAYS	³ ⁄4" (20mm)	NOTE 1	N/A
CONCRETE ON COMPOSITE STEEL DECK	N	GU	25 MPa @ 28 DAYS	¹ ⁄ ₂ " (12mm)	NOTE 1	N/A
HOUSE KEEPING PADS	N	GU	25 MPa @ 28 DAYS	³ ⁄4" (20mm)	NOTE 1	N/A

1. WATER-CEMENT RATIO AS PER THE MIX DESIGN FOR THE STRENGTH REQUIRED.

SUBMITTALS

- 1. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION OR CONSTRUCTION. REQUIRED SHOP DRAWINGS SHALL INCLUDE BUT ARE NOT LIMITED TO: A. STRUCTURAL STEEL
- B. OPEN WEB STEEL JOISTS AND GIRDERS PRECAST CONCRETE MEMBERS
- METAL STUD FRAMING
- 2. CONTRACTOR SHALL REVIEW AND STAMP SHOP DRAWINGS PRIOR TO SUBMITTING. CONTRACTOR'S REVIEW SHALL CHECK FOR COMPLETENESS/COMPLIANCE WITH CONTRACT DOCUMENTS.
- 3. SHOP DRAWINGS ARE REVIEWED ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS. REVIEW DOES NOT INDICATE THAT THE SHOP DRAWINGS ARE CORRECT OR COMPLETE. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW UNLESS SPECIFICALLY NOTED ACCORDINGLY. THE SHOP DRAWINGS DO NOT SUPERSEDE OR REPLACE THE ORIGINAL CONTRACT DRAWINGS. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN APPROPRIATELY REGISTERED ENGINEER.
- INDICATED BY THE STRUCTURAL DRAWINGS TO BE DESIGNED BY OTHERS, MAY BE SUBMITTED TO THE ARCHITECT AND/OR ENGINEER OF RECORD FOR REVIEW AS A DEFERRED SUBMITTAL, PROVIDED THAT SUCH SUBMITTAL IS TO BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
- A. CONCRETE MIX DESIGNS
- B. METAL STUD FRAMING C. SUPPORT/ ANCHORAGE OF MECHANICAL, ELECTRICAL, AND PLUMBING
- EQUIPMENT AND COMPONENTS D. STAIRS, HANDRAILS, GUARDRAILS, AND THEIR COMPONENTS
- E. EXTERIOR SIGNAGE 5. ALL DEFERRED SUBMITTALS SHALL INCLUDE CALCULATIONS AND DRAWINGS
- PREPARED IN ACCORDANCE W/ ALL APPLICABLE BUILDING CODES AND STAMPED BY AN APPROPRIATELY LICENSED PROFESSIONAL ENGINEER. SUBMITTALS SHALL SHOW LOCATION AND MAGNITUDE OF LOADS. SIZE AND CONFIGURATION OF MEMBERS AND COMPATIBILITY W/ THE PRIMARY STRUCTURAL SYSTEM.
- 6. DEFERRED SUBMITTALS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER TO DETERMINE THAT THE DRAWINGS AND CALCULATIONS HAVE BEEN PROPERLY SEALED, LOAD CRITERIA IS IN GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND WITH THE REFERENCED BUILDING CODE, THAT CONNECTIONS TO THE PRIMARY STRUCTURE ARE COMPATIBLE WITH THE PRIMARY DESIGN, AND THAT THE PRIMARY STRUCTURE IS CAPABLE OF SUPPORTING THE IMPOSED LOADS.
- 7. THE STRUCTURAL ENGINEER OF RECORD WILL RELY UPON THE SPECIALTY ENGINEER'S SEAL AS CERTIFICATION THAT THE ITEMS DESIGNED BY THE SPECIALTY ENGINEER COMPLY WITH THE CRITERIA SET FORTH IN THE CONTRACT DOCUMENTS AND APPLICABLE CODES AND STANDARDS. THE STRUCTURAL ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE ADEQUACY OF DESIGNS PROVIDED BY OTHERS.
- 8. ALLOW (5) WORKING DAYS FOR THE ENGINEER'S REVIEW OF SUBMITTALS. CONTRACTOR SHALL PROVIDE A COPY OF EACH SUBMITTAL FOR THE ENGINEER'S RECORDS. ONLY (1) COPY WILL BE RETURNED WITH ANY CORRECTIONS NOTED. CONTRACTOR SHALL BE RESPONSIBLE FOR REPRODUCING ENGINEER'S CORRECTIONS ON ADDITIONAL COPIES REQUIRED.
- 9. REFER TO APPLICABLE GSN SECTIONS FOR ADDITIONAL REQUIREMENTS SPECIFIC TO INDIVIDUAL SUBMITTALS.
- 10. ANY EXACT REPRODUCTION OF THE ORIGINAL STRUCTURAL DOCUMENTS ON THE SHOP DRAWINGS IS PROHIBITED AND WILL BE AN AUTOMATIC DISAPPROVAL OF ALL SHOP DRAWINGS INCLUDED WITH THE PACKAGE. ANY SHOP DRAWINGS NOT APPROVED FOR THIS REASON SHALL BE RE-SUBMITTED AS CLEAN COPIES.

SCREW PILE NOTES

- 1. DESIGN CRITERIA A. SOIL PROFILE
 - REFERENCE: PILE DESIGN IS BASED ON GEOTECHNICAL INVESTGATION OF THE PROPOSED CURLING CLUB LOCATED EAST OF THE PROPERTY.
 - B. ADFREEZE BOND OF 70 kPa WITH FROST DEPTH OF 2.1m IS CONSIDERED IN THE ULTIMATE UPLIFT PILE CAPACITY ONLY.
 - C. GEOTECHNICAL RESISTANCE FACTORS:
 - COMPRESSION = 0.4 UPLIFT = 0.3
 - D. MINIMUM PILE TORQUE PROVIDED AS A GUIDE AND PILE INSTALLATION NEEDS TO BE MONITORED TO ENSURE CONSITENT TORQUE VALUES ARE READ DURING INSTALLATION. IF DURING INSTALLATION A SUDDEN DROP IN TORQUE VALUES ARE ENCOUNTERED, PILE LOG TO BE FORWARDED TO ENGINEER FOR REVIEW AND RECOMMENDATIONS.
 - E. PILE PLACEMENT TOLERANCE OF ±3 INCHES OF POSITION SPECIFIED IN ON DRAWING. PILE MIS-ALIGNMENT SHALL BE PARTIALLY COMPENSATED FOR BY INSTALLING THE CAP PLATE OFFSET IN THE DIRECTION OF THE DESIGN LOCATION. THIS DIRECTION, HOWEVER, MUST NOT EXCEED 3 INCHES.
- F. IF SITE CONDITIONS DO NOT SUPPORT THE ABOVE CRITERIA, THE DESIGN MUST BE REVISED TO ACCOMMODATE THE ACTUAL SITE CONDITIONS.
- 2. PILE INSTALLER MUST SUBMIT PILE INSTALLATION REPORT TO BEAIRSTO AND ASSOCIATES ENGINEERING LTD. INCLUDING TORQUE AND DEPTH READING UPON COMPLETION.
- 3. PRE-DRILLED HOLES IF REQUIRED THROUGH FROST TO BE NO MORE THAN 80% OF THE HELIX DIAMETER. THE PRE-DRILLED HOLE TO BE BACKFILLED AND COMPACTED WITH SUITABLE UNFROZEN MATERIAL TO ENSURE THE LATERAL SUPPORT OF THE PILE IS MAINTAINED AS DESIGNED.
- 4. SCREW PILE PROPERTIES:
- A. PILE SHAFT SHALL CONFORM TO ASTM A-252 GRADE 2 OR 3.
- B. HELICAL AND PILE CAP PLATES SHALL CONFORM TO CAN/CSA G40.21 GRADE 44W. C. ALL WELDS SHALL BE $\frac{5}{16}$ " FILLET WELD U.N.O. WITH E49XX ELECTRODES.
- 5. WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH CSA W59 AND THE WELDER SHALL BE CERTIFIED UNDER THE REQUIREMENTS OF CSA W47.1.
- 6. FABRICATION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE BEST TRADE PRACTICES AND ALL APPLICABLE CODES.

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