

**GENERAL NOTES:**

- THE DESIGN AND CONSTRUCTION OF ALL WORK ON THIS PROJECT IS TO CONFORM TO THE ONTARIO BUILDING CODE – 2012 INCLUDING ALL AMENDMENTS, AND THE RELEVANT LISTED C.S.A. STANDARDS INCLUDING THE LATEST EDITIONS.
- READ THESE DRAWINGS IN CONJUNCTION WITH ALL RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS AND CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL CHECK AND VERIFY ALL CONDITIONS AND MEASUREMENTS AT THE SITE AND REPORT TO THE ENGINEER ANY DISCREPANCIES OR UNSATISFACTORY CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THE JOB BEFORE PROCEEDING WITH THE WORK.
- DO NOT SCALE THE DRAWINGS.
- DESIGN LIVE LOADS FOR EACH PORTION OF THE STRUCTURE ARE AS INDICATED ON THE DRAWINGS. DO NOT EXCEED THESE LOADS DURING CONSTRUCTION.
- DESIGN LOADS INDICATED ARE UNFACTORED UNLESS NOTED.
- THE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT, STABILITY OF THE STRUCTURE DURING CONSTRUCTION REMAINS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AGAINST LATERAL & CONSTRUCTION LOADS THROUGHOUT CONSTRUCTION.
- CONSTRUCTION, FABRICATION AND SHOP DRAWING REVIEW MUST BE PROVIDED AS PER CODE.
- REFERENCE ELEVATIONS SHOWN CORRESPOND TO ACTUAL GEODETIC ELEVATION.
- ALL DIMENSIONS ON DRAWINGS ARE IN IMPERIAL U.N.O.
- DELIVER, HANDLE AND STORE MATERIALS TO AVOID DAMAGE IN ANY MANNER.
- MAINTAIN A SET OF DRAWINGS ON SITE & UPDATE FREQUENTLY WITH CONSTRUCTION RECORD INFORMATION.

**MATERIALS:**

UNLESS NOTED OTHERWISE ON THE DRAWINGS THE FOLLOWING MATERIALS SHALL BE USED FOR CONSTRUCTION:

- WELDED STEEL WIRE FABRIC: G30.5
- ANCHOR BOLTS, NUTS AND WASHERS: ASTM A307 & A36
- HIGH STRENGTH BOLTS: ASTM A325
- PLATES, ANGLES, CHANNELS: G40.21-300W REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- WIDE FLANGE BEAMS AND WWF SECTIONS: G40.21-350W
- MISC. ROLLED SECTIONS AND ROLLED PLATES: G40.21-300W
- HSS: G40.21-350W CLASS H
- GALVANIZING: CSA G164 & ASTM A153 CLASS B2
- WELDING: CSA W59, W55 AND W47 SERIES E480XX ELECTRODES
- STEEL DECK: TO CSSB1 101M, GRADE A MIN. C.N.T. 0.76mm U/N, ZF075 WIPED ZINC COATING.

**DELEGATED DESIGN:**

- PORTIONS OF THE DETAILED DESIGN ARE DELEGATED TO THE CONTRACTOR. RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO TO COMPLETE THE DESIGN.
- SUBMIT SHOP DRAWINGS FOR COMPONENTS REQUIRING DELEGATED DESIGN UNDER THE SEAL AND SIGNATURE OF THE ENGINEER RESPONSIBLE FOR THE DESIGN.
- THE FOLLOWING COMPONENTS REQUIRED DELEGATED DESIGN:
  - MORTAR, GROUT, AND CONCRETE MIX DESIGNS
  - STRUCTURAL STEEL CONNECTIONS
  - LIGHTWEIGHT STEEL FRAMING
- THE ENGINEER RESPONSIBLE FOR DESIGN IS ALSO RESPONSIBLE FOR THE REVIEW OF FABRICATION AND INSTALLATION OF THE COMPONENTS UPON COMPLETION OF THE WORK, CERTIFY IN WRITING TO THE CONSULTANT THAT SUCH REVIEW HAS BEEN COMPLETED.
- REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.

**STRUCTURAL STEEL:**

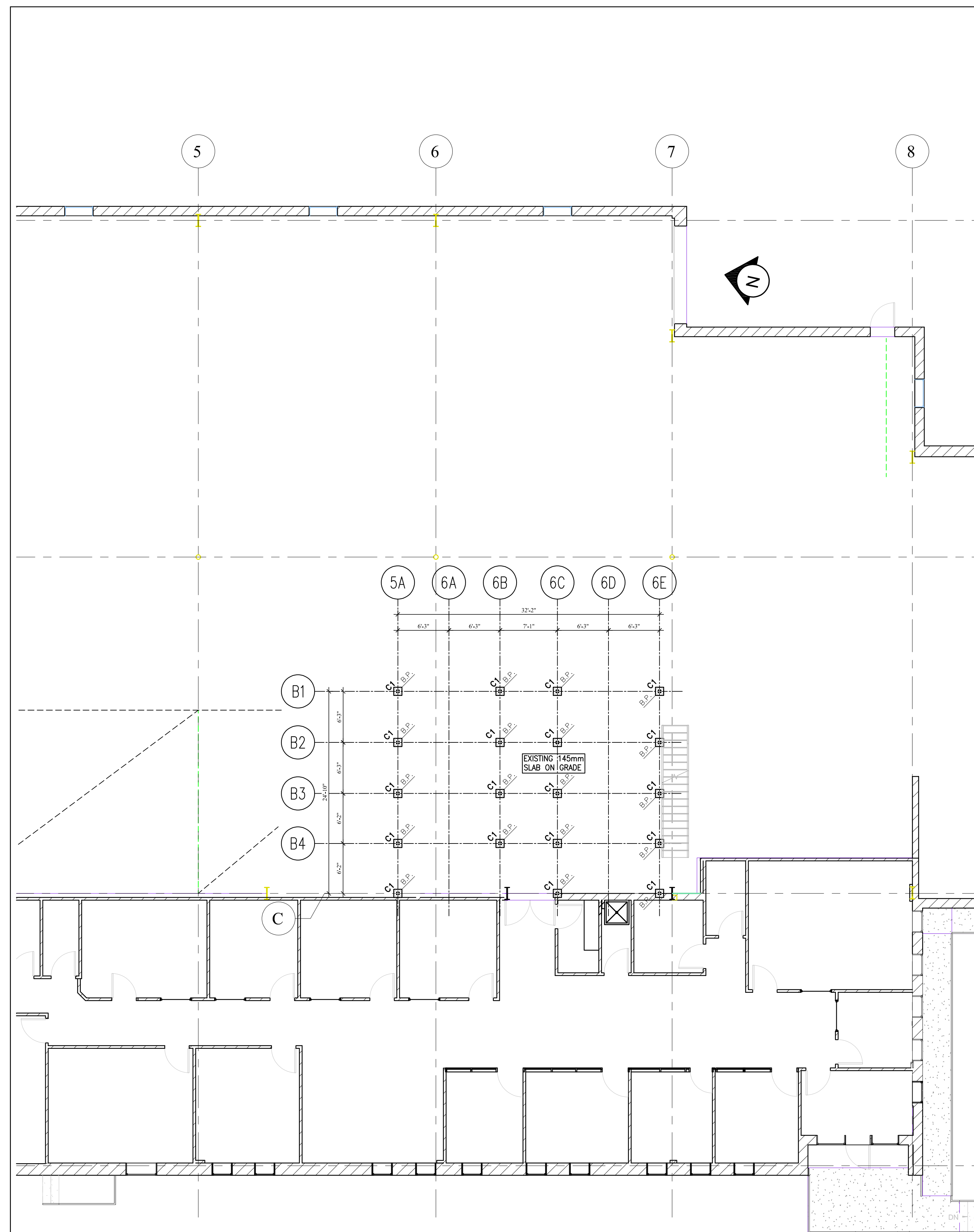
- ALL STRUCTURAL STEEL SHALL BE DESIGNED TO COMPLY TO THE REQUIREMENTS OF C.S.A. SPECIFICATIONS S16.1 (LATEST EDITION), AND FOLLOW CISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL.
- AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO BE ENGAGED BY THE CONTRACTOR, TO ENSURE THAT SHOP AND FIELD WORK IS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS. COPIES OF THE INSPECTIONS ARE TO BE SENT TO THE CLIENT, THE ENGINEER AND THE MUNICIPALITY.
- PROVIDE MILL TEST REPORTS, CO-RELATED TO MATERIAL IN ORDER TO IDENTIFY STEEL.
- ALL STEEL TO BE SHOP PRIMED WITH AN APPROVED ANTI-CORROSIVE PRIMER (EXCEPT IN THE CONTACT AREAS OF CONNECTIONS) AND TOUCHED UP IN THE FIELD AS REQUIRED.
- COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS AND ALL SUB-TRADES WHOSE WORK AFFECTS THE DETAILING, FABRICATION AND ERECTION OF THE STRUCTURAL STEEL. DO NOT CUT OPENINGS IN STRUCTURAL STEEL MEMBERS WITHOUT ENGINEERS REVIEW.
- PROVIDE AND REMOVE AFTERWARDS TEMPORARY BRACING NECESSARY TO KEEP THE STRUCTURE TRUE AND PLUMB DURING CONSTRUCTION.
- VARIATIONS FROM PLUMB AND LEVEL, EXTERIOR COLUMNS, SPANDREL BEAMS AND ANGLES: 1000 – (±) 1 OTHER PIECES: IN 1000 – (±) 2
- ALL CONNECTIONS TO BE DESIGNED BY FABRICATOR U.N.O. ALL CONNECTIONS TO BE STANDARD FRAME CONNECTIONS OR EQUIVALENT U.N.O.
- SEAL ALL TUBE MEMBERS AND PROVIDE DRAINAGE HOLES SO WATER IS NOT ENTRAPPED IN ANY MEMBERS.
- BOLTED CONNECTIONS SHALL BE MADE USING HIGH TENSILE BOLTS.
- COPIES OF THE ERECTION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. ERECTION DRAWINGS SHALL BE SEALED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN.
- THE COLUMN BASE SHALL BE SET TO PROPER ELEVATION ON STEEL LEVELING PLATES READY FOR GROUTING. WOOD WEDGES SHALL NOT BE USED.
- UNLESS NOTED OTHERWISE PROVIDE CONTINUOUS L100x100x10 AS CLOSURE ANGLE OR AS SUPPORTING OF STEEL DECK EDGES AT BUILDING PERIMETER LOCATIONS AND AT INTERIOR LOCATIONS WHERE STEEL DECKS CHANGE BEARING DIRECTIONS. ENSURE THAT ANGLE IS WELDED TO BEAM OR OWSJ WITH 6mm CONTINUOUS FILLET WELD. THIS CONNECTION IS ALSO VALID AT LOCATIONS WHERE SPECIFIC ANGLE SIZES ARE SHOWN ON DRAWINGS.
- ALL ANCHOR BOLTS SHALL BE SET BY TEMPLATE.

**STEEL DECK:**

- SUBMIT ERECTION DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION, INDICATING SHEET LENGTHS, MATERIAL PROPERTIES AND FASTENING METHODS.
- DECK SHALL BE SUPPLIED IN 3-SPAN UNITS MINIMUM. UNLESS NOTED OTHERWISE.
- ERECTION OF STEEL DECK BY WELDING SHALL BE DONE BY COMPANIES CERTIFIED BY THE CANADIAN WELDING BUREAU (CWB) UNDER CSA W47.1. WELDERS SHALL BE CERTIFIED BY CWB FOR DECK WELDING. PRACTICE AND FINAL WELDS SHALL BE MADE PRIOR TO ACTUAL JOB WELDING TO CHECK THE ADEQUACY OF THE WELDING ROD AMPERAGE AND BURN OFF RATE NECESSARY TO PRODUCE SATISFACTORY FUSION FOR THE VARIOUS WELDS REQUIRED. PRACTICE AND FINAL WELDS SHALL BE INSPECTED BY THE STEEL DECK ERECTOR AS TO SIZE AND SPACING AND PRY TESTED TO DEMONSTRATE METAL TO METAL FUSION.
- WHERE POWER ACTUATED FASTENERS ARE SPECIFIED, WORK MUST BE DONE IN STRICT CONFORMANCE WITH FASTENER MANUFACTURERS GUIDELINES.
- ALL AREAS WHERE ZINC COATING HAS BEEN BURNED BY WELDING ARE TO BE TOUCHED UP WITH ZINC RICH PRIMER ACCORDING TO PAINT MANUFACTURER INSTRUCTIONS
- GENERAL CONSTRUCTION AND SPECIFICATIONS NOT OTHERWISE NOTED TO MEET CANADIAN SHEET STEEL BUILDING INSTITUTE PUBLICATION "STANDARD FOR STEEL ROOF DECK".

**MISCELLANEOUS METALS & STAIR FABRICATORS:**

- PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION STAMPED, SIGNED AND DATED BY PROFESSIONAL ENGINEER TO THE ENGINEER FOR REVIEW.
- ALL GUARDS TO BE DESIGNED TO MEET LATERAL LOAD DESCRIBED IN OBC.
- ALL HANDRAILS TO BE DESIGNED TO MEET LOAD DESCRIBED IN OBC.
- ALL STAIRS TO BE DESIGNED TO SUPPORT A LIVE LOAD OF 4.8 kPa.

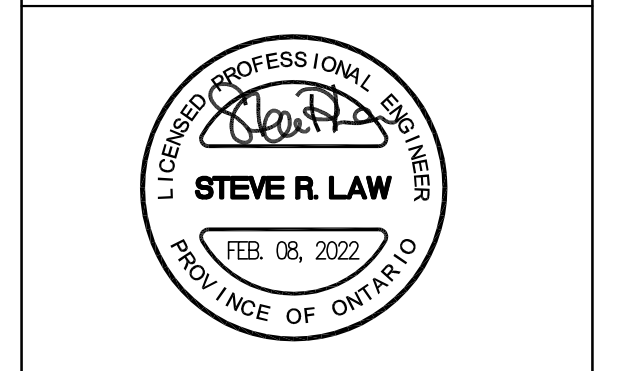


1 FOUNDATION PLAN  
1/8" = 1'-0"

no.	revisions	date	init.
1	RE-ISSUED FOR PERMIT	02-08-2022	PF
0	ISSUED FOR PERMIT	01-28-2022	PF

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date plotted 02-08-2022 plot scale 1:1



drawn	RY
designed	PF
reviewed	SL
date	02-08-2022
scale	AS NOTED
project	KPC POWER MEZZANINE

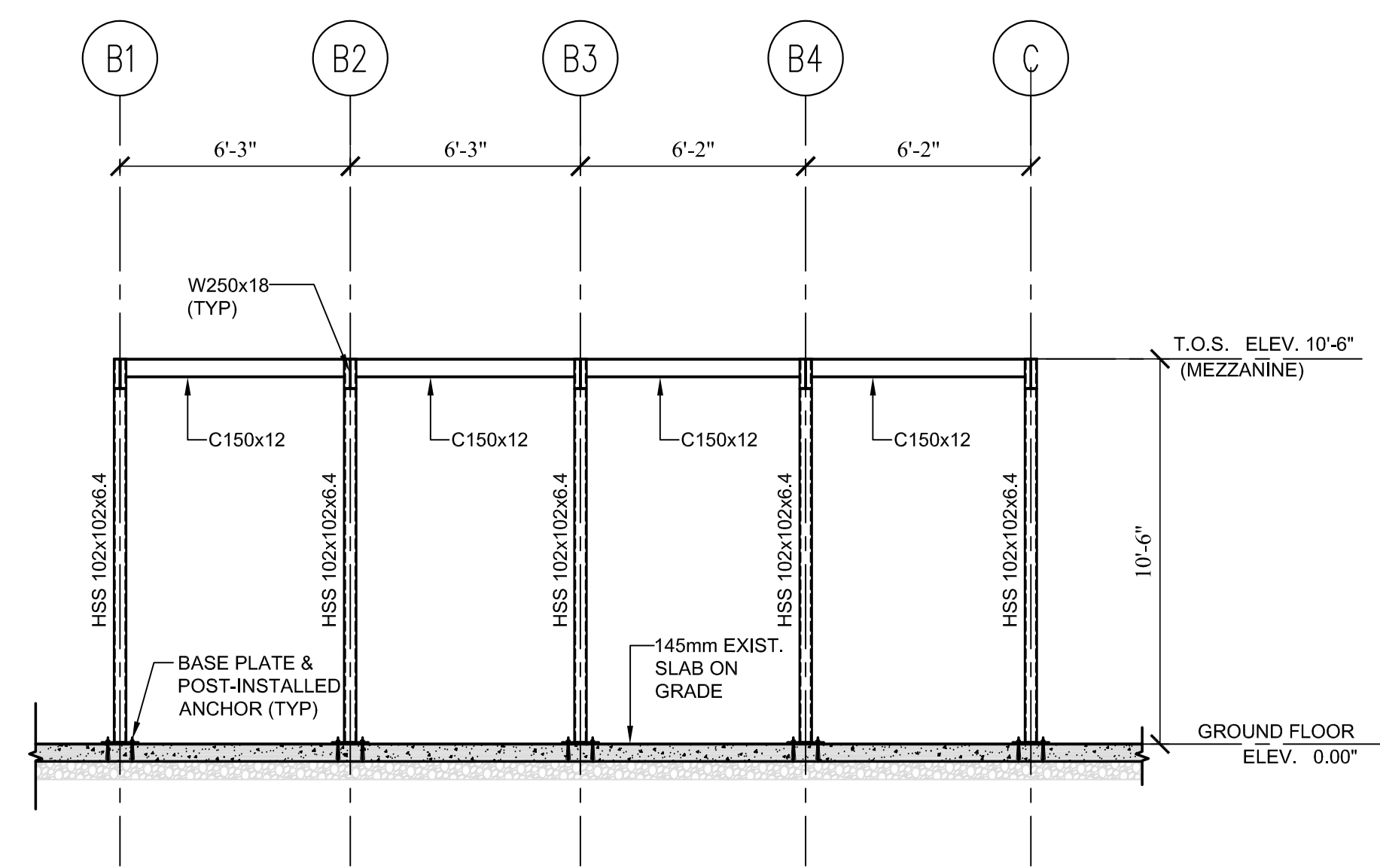
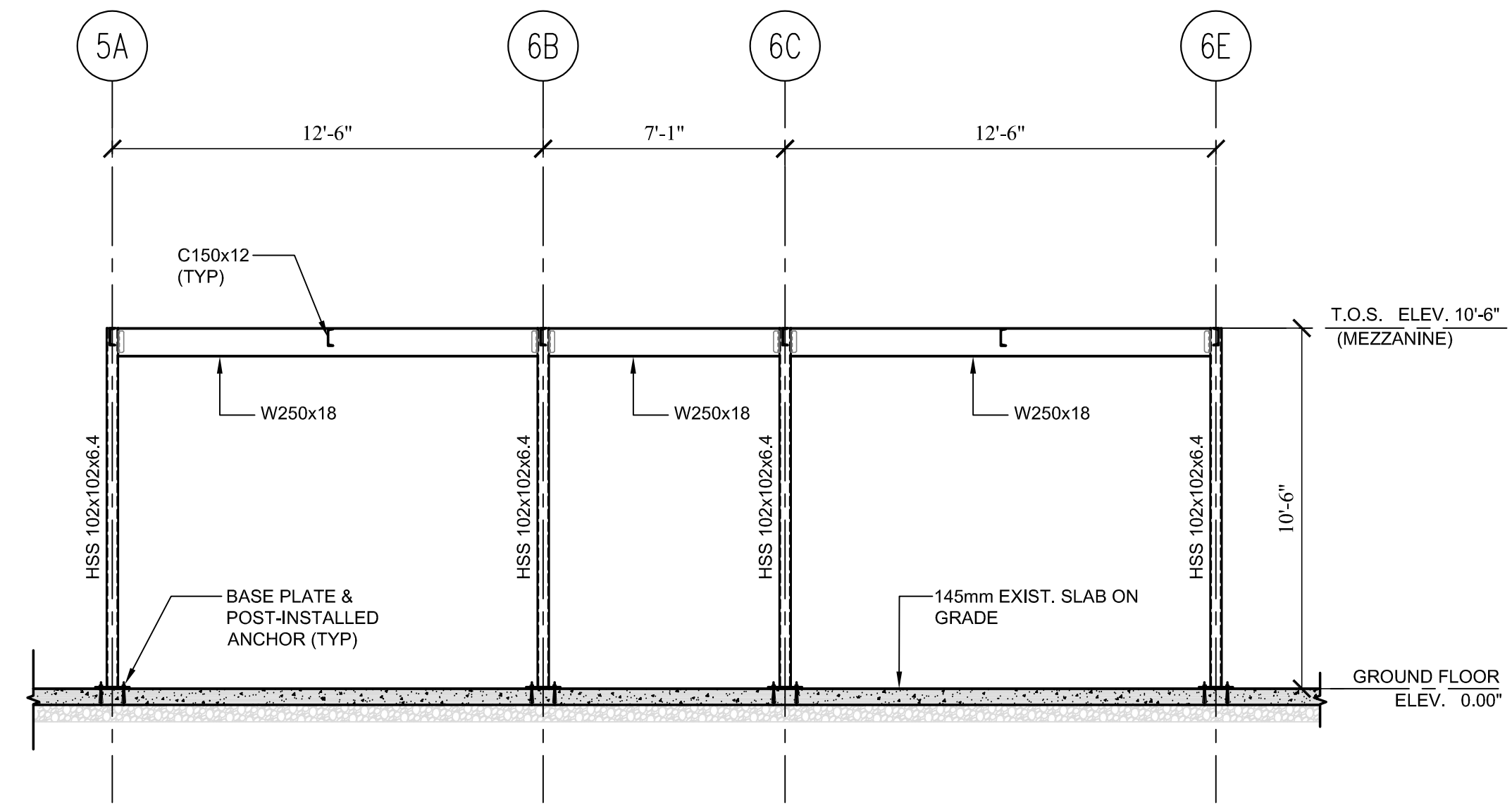
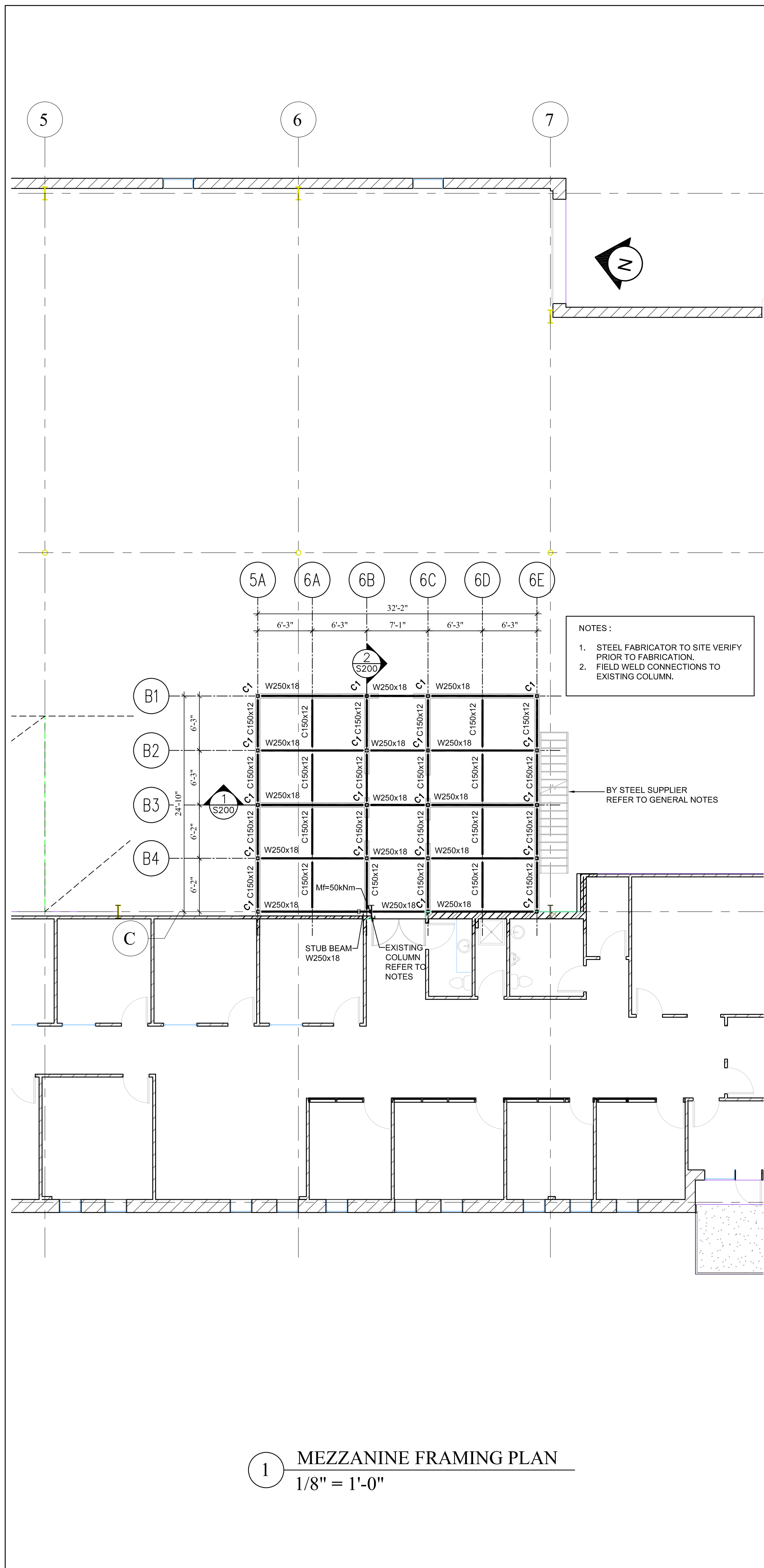
AJAX, ONTARIO

drawing  
GENERAL NOTES

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drawing no.	21016-S100	rev. no.	1
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SHEET SIZE: A1 609.6mm X 914.4mm



**MEZZANINE LEVEL FLOOR NOTES**

- REFER TO DRAWING S100 FOR GENERAL NOTES
- TOP OF MAIN LEVEL FINISHED FLOOR SLAB ELEVATION = 0.00m
- SPECIFIED ROOF LOADING: (DO NOT EXCEED DURING CONSTRUCTION).  
LOADING:

A. DESIGN FLOOR LOADS

DEAD LOADS:

COMPOSITE DECK SYSTEM:

- INSULATION = 0.10 kPa
- 38mm DECK + 65mm CONCRETE = 1.95 kPa
- STRUCTURAL STEEL = 0.14 kPa
- CEILING = 0.20 kPa
- ELECT. = 0.20 kPa

TOTAL DEAD LOAD = 2.52 kPa

LIVE LOADS:

- STORAGE = 4.80 kPa
- STAIRS/LANDING = 4.80 kPa

- VERTICAL LIVE LOAD DEFLECTION NOT TO EXCEED L/360.
- SHOP DRAWINGS FOR STEEL STAIRS AND OTHER MISCELLANEOUS STRUCTURAL STEEL SHALL BEAR THE STAMP OF A PROFESSIONAL ENGINEER AND SHALL BE SUBMITTED TO THIS OFFICE FOR REVIEW.
- FLOOR DECK FD - 1:  
INDICATED 38mm x 0.91mm THICK STEEL DECK (3 SPAN CONTINUOUS).

**STEEL COLUMN SCHEDULE**

DATA	COLUMN TYPE	C 1
TOP OF STEEL DECK ELEV. = 23'-4" ABV. FIN. FLR. (SEE ARCH'L DWGS.)		
TOP OF MEZZANINE AT ELEV. = 10'-6" ABV. FIN. FLR. (SEE ARCH'L DWGS.)		HSS 102x102x6.4
TOP OF FINISHED FLOOR SLAB ELEV. = 0.0'		
BASE PLATE SIZE AND THICKNESS (L x W x THK.)		300 x 300 x 16
CENTER TO CENTER OF ANCHOR BOLTS	Ax	200
	Ay	200
BASE PLATE TYPE		A
POST INSTALLED HILTI ANCHORS		4-25M

**ANCHOR BOLT DETAIL**

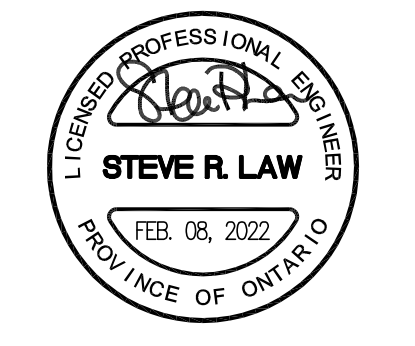
**BASE PLATE TYPE "A"**

NOTES:  
\* REFER TO PLAN AND SECTIONS FOR POSTS SUPPORTING STAIR LANDINGS  
\*\* STEEL FABRICATOR TO DESIGN BASE PLATE AND CONNECTION FOR COLUMNS SUPPORTED ON STEEL TRUSSES/STEEL BEAMS

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date plotted 02-08-2022 plot scale 1:1



drawn	RY
designed	PF
reviewed	SL
date	02-08-2022
scale	AS NOTED
project	KPC POWER MEZZANINE
	AJAX, ONTARIO
drawing	FRAMING PLAN

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