GBC ATHLETICS RENOVATION

PROJECT NO.: 6010

ISSUED FOR: CONSTRUCTION

VOLUME:

11/21/23

DRAWING LIST

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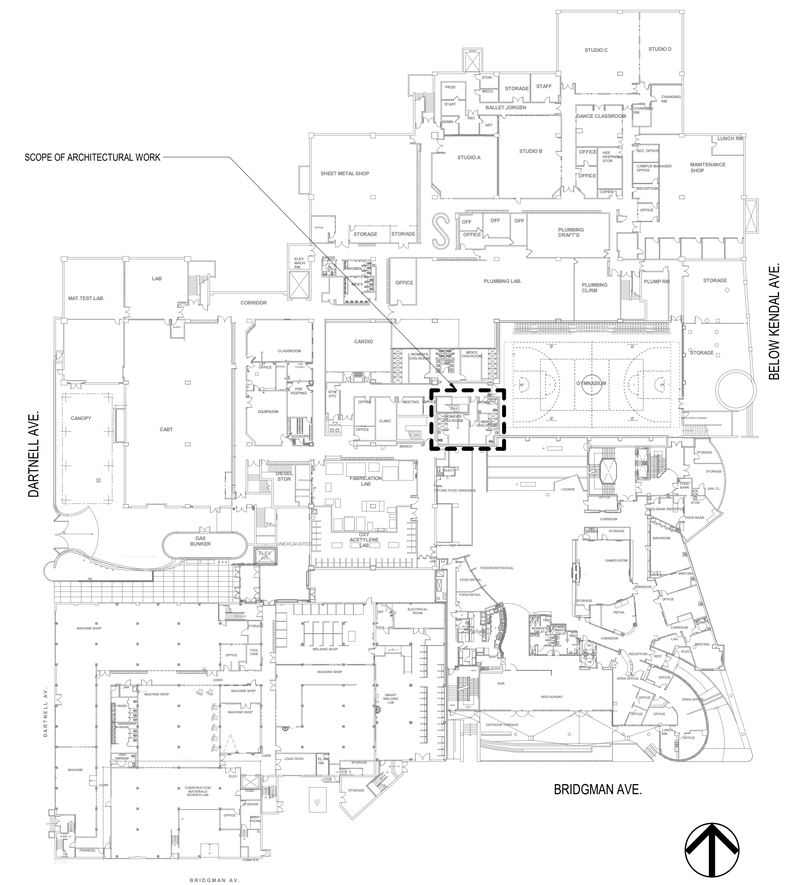


PROJECT NORTH

1 / A020 GEORGE BROWN COLLEGE - CASA LOMA CAMPUS - BUILDING C - KEY PLAN

Scale: 1 : 500

Engineers

MCW Consultants Ltd.

BUILDING CODE ANALYSIS

1.0 INTRODUCTION:

GEORGE BROWN CASA LOMA CAMPUS ATHLETICS CENTRE INTERIOR RENOVATION

THE PROJECT SITE IS LOCATED ON LEVEL 1 OF GEORGE BROWN COLLEGE'S CASA LOMA CAMPUS C-BUILDING. THE SCOPE OF WORK INCLUDES REPURPOSING AN EXISTING MALE AND FEMALE LOCKER ROOM COMPLEX (USED BY GBC CAMPUS ATHLETICS TEAMS) INTO A TEAM LOUNGE SPACE, CONTAINING A SMALL GATHERING SPACE, STUDY AREA AND AN OFFICE. EXISTING SHOWER, LOCKER AND CHANGING AMENITIES WILL BE DEMOLISHED, ALONG WITH ONE OF TWO WATER CLOSETS (THE OTHER ONE WILL BE RETAINED FOR USE BY LOUNGE OCCUPANTS). AN EXISTING BARRIER FREE CHANGE ROOM AND WASHROOM IS OUTSIDE OF THE PROJECT SCOPE AND WILL NOT BE IMPACTED BY THE WORK.

MUNICIPAL ADDRESS: GEORGE BROWN COLLEGE, CASA LOMA CAMPUS
160 KENDAL AVE
TORONTO, ON
M5R 1M3

THE EXISTING BUILDING IS 5 STOREYS IN HEIGHT

2.0 APPLICABLE BUILDING CODE AND STANDARDS

ONTARIO BUILDING CODE 2012, INCLUDING REGULATIONS UPDATES UP TO AND INCLUDING 89/23.

COMPLIANCE

THE FOLLOWING CODE ANALYSIS FOR THE INTERIOR ALTERATIONS PROJECT HAS BEEN REVIEWED UNDER THE CURRENT CODE. IT IS ASSUMED THAT THE BASE BUILDING WAS BUILT IN COMPLIANCE WITH THE APPLICABLE EDITION OF THE ONTARIO BUILDING CODE AT THE TIME OF CONSTRUCTION.

APPLICATION OF THIS CODE

THIS CODE APPLIES TO:
ALTERATION OF ANY BUILDING (1.1.1.1(1))

3.0 ENERGY EFFICIENCY

NOT APPLICABLE. AS PER 1.1.1.1. OF THE NECB 2017 BECAUSE GBC CASA LOMA KENDAL BUILDING IS AN EXISTING BUILDING, CONSTRUCTED IN 1970, THERE IS NO REQUIREMENT TO COMPLY WITH THE NATIONAL ENERGY CODE.

4.0 MAJOR USE AND OCCUPANCY

A2 - ASSEMBLY - COLLEGE

5.0 EXISTING BUILDING CLASSIFICATION AND CONSTRUCTION REQUIREMENTS

A2 - ASSEMBLY - FOR THE PURPOSES OF THE RENOVATION, WE HAVE REFERENCED THE FOLLOWING CLASSIFICATION. IT IS ASSUMED THAT THE ORIGINAL BUILDING WAS CONSTRUCTED IN ACCORDANCE WITH THE BUILDING CLASSIFICATIONS THAT WERE IN FORCE AT THE TIME.

3.2.2.24 GROUP A, DIVISION 2, UP TO 6 STOREYS, ANY AREA, SPRINKLERED
(1) A BUILDING CLASSIFIED AS GROUP A, DIVISION 2, THAT IS NOT LIMITED BY BUILDING AREA, IS PERMITTED TO CONFORM TO SENTENCE (2) PROVIDED,
(a) EXCEPT AS PERMITTED BY SENTENCE 3.2.2.7.(1), THE BUILDING IS SPRINKLERED, AND
(b) IT IS NOT MORE THAN 6 STOREYS IN BUILDING HEIGHT.

(2) EXCEPT AS PERMITTED BY ARTICLE 3.2.2.16., THE BUILDING REFERRED TO IN SENTENCE (1) SHALL BE OF NONCOMBUSTIBLE CONSTRUCTION, AND,
(a) FLOOR ASSEMBLIES SHALL BE FIRE SEPARATIONS WITH A FIRE-RESISTANCE RATING NOT LESS THAN 1h,
(b) MEZZANINES SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN 1 h, AND
(c) ALL LOADBEARING WALLS, COLUMNS AND ARCHES SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THAT REQUIRED FOR THE SUPPORTED ASSEMBLY.

6.0 EXITING AND MEANS OF EGRESS

NO CHANGE TO THE EXITS AND TRAVEL DISTANCE. THE RENOVATED LOUNGE SPACE IS LOCATED WITHIN SUITE SEPARATED FROM THE REMAINDER OF THE FLOOR AREA BY A FIRE SEPARATION BASED ON DRAWINGS FROM THE PREVIOUS RENOVATION DATED, 16.04.2015. THE FLOOR AREA IS SPRINKLERED THROUGHOUT. THERE ARE TWO EXISTING EXITS FOR THIS SUITE, ONE THROUGH THE EXIT STAIR 9 AT SOUTH AND ONE THROUGH EAST OPEN STAIR OF THE GYMNASIUM, WHICH CONNECTS DIRECTLY TO THE OUTDOOR STREET. WE ASSUME THAT THE ORIGINAL BUILDING MET THE EXISTING REQUIREMENTS ACCORDING TO THE CODES THAT WERE IN FORCE AT THE TIME OF CONSTRUCTION.

ABOVE ANALYSIS PER BELOW ONTARIO BUILDING CODE &
EXISTING BUILDING PERMIT 14 266383 BLD 00

3.4.2.4 TRAVEL DISTANCE
(2) THE TRAVEL DISTANCE FROM A SUITE OR A ROOM NOT WITHIN A SUITE IS PERMITTED TO BE MEASURED FROM AN EGRESS DOOR OF THE SUITE OR ROOM TO THE NEAREST EXIT PROVIDED.
(ii) THAT IS NOR REQUIRED TO HAVE A FIRE-RESISTANCE RATING, IN A FLOOR AREA THAT IS SPRINKLERED, AND
(b) THE EGRESS DOOR OPENS ONTO,
(ii) A CORRIDOR USED BY THE PUBLIC THAT IS SEPARATED ROM THE REMAINDER OF THE FLOOR AREA IN CONFORMANCE WITH THE REQUIREMENTS IN ARTICLE 3.3.1.4. FOR THE SEPARATION OF THE PUBLIC CORRIDORS

3.3.1.4. PUBLIC CORRIDOR SEPARATIONS
(3) IF A STOREY IS SPRINKLERED, NO FIRE-RESISTANCE RATING IS REQUIRED FOR A FIRE SEPARATION BETWEEN A PUBLIC CORRIDOR AND THE REMAINDER OF THE STOREY PROVIDED THE CORRIDOR DOES NOT SERVE A CARE, CARE AND TREATMENT, DETENTION OR RESIDENTIAL OCCUPANCY.

7.0 OCCUPANT LOAD

THE PROPOSED OCCUPANTS ARE NO MORE THAN 23.
CALCULATION PER 3.1.17.1:
VARSITY LOUNGE: 32.7 sqm / 1.85 sqm per person = 18 persons
VARSITY OPERATIONS OFFICE: 7.8 sqm / 9.3 sqm per person = 1 person (2 persons actual)
VARSITY COACHES OFFICE: 10.6 sqm / 9.3 sqm per person = 2 persons (3 persons actual)

8.0 WASHROOM FIXTURE REQUIREMENTS

THERE IS ONE EXISTING FEMALE SINGLE WASHROOM AND ONE EXISTING MALE SINGLE WASHROOM. THE FIT-OUT WILL REMOVE THE FEMALE SINGLE WASHROOM WITHIN THE EXISTING FEMALE CHANGE ROOM. ONE WASHROOM WILL BE DEMOLISHED AS PART OF THIS WORK AND THE REMAINING WASHROOM WILL BE CONVERTED TO A NON GENDERED FACILITY TO BE USED BY OCCUPANTS OF THE LOUNGE.

AN ANALYSIS OF THE EXISTING WASHROOM FIXTURE COUNTS WAS UNDERTAKEN BY LRI ENGINEERING INC. AND NOTES THAT THERE IS A SURPLUS OF CAPACITY. IN CONSIDERATION OF THIS, THE PROPOSED DEMOLITION OF ONE WATER CLOSET AND ONE LAVATORY DOES NOT REDUCE THE CAPACITY BELOW THAT WHICH IS REQUIRED BY ONTARIO BUILDING CODE. THIS REPORT IS INCLUDED FOR REFERENCE.

9.0 INTERCONNECTED FLOOR SPACE

THE EXISTING OPEN STAIR LOCATED ADJACENT TO THE VARSITY LOUNGE SERVES AS A CONVENIENCE STAIR WHICH PROVIDES ACCESS BETWEEN LEVEL 1 AND LEVEL 2 OF THE BUILDING. IT IS OPEN TO CORRIDOR 100E ON THE NORTH SIDE OF THE STAIR.

OBC SENTENCE 3.2.8.2.(6) PROVIDES AN EXEMPTION FROM THE SPECIAL PROTECTION REQUIREMENTS OF OBC ARTICLES 3.2.8.3. TO 3.2.8.11. FOR INTERCONNECTED FLOOR SPACES THAT ARE SPRINKLERED, CONSIST OF THE FIRST STOREY AND THE NEXT STORY ABOVE OR BELOW IT, BUT NOT BOTH, AND CONTAIN ONLY GROUP A, DIVISION 1,2, OR 3, GROUP D, GROUP E, OR GROUP F, DIVISION 2 OR 3 OCCUPANCIES.

IN CONSIDERATION THAT THE BUILDING IS FULLY SPRINKLERED, DOES NOT CONTAIN A BASEMENT LEVEL, AND CONTAINS A GROUP A, DIVISION 2 OCCUPANCY, LEVEL 1 AND LEVEL 2 OF THE BUILDING ARE PERMITTED TO BE INTERCONNECTED BASE ON OBC SENTENCE 3.2.8.2.(6).

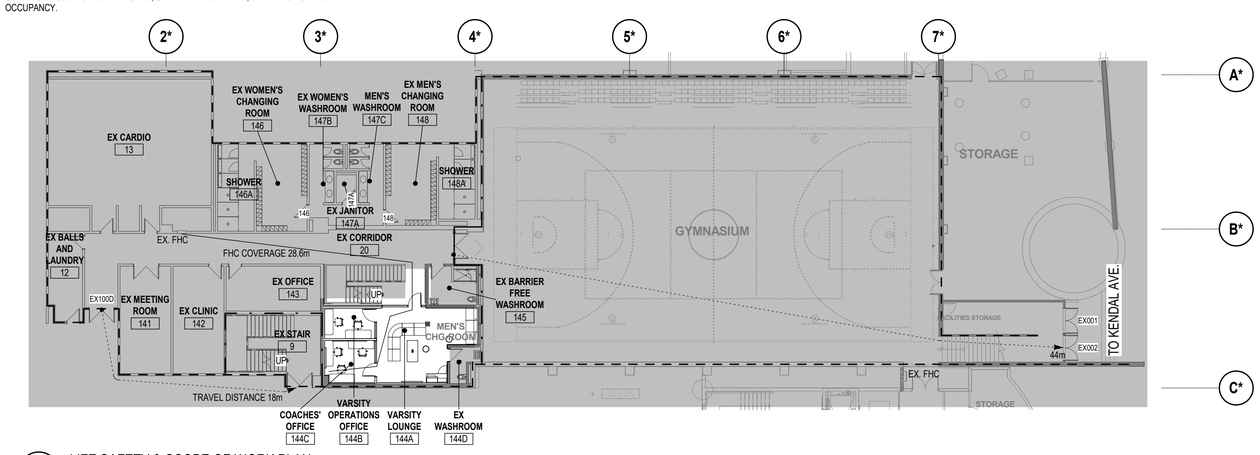
AS SUCH, THE EXISTING CONVENIENCE STAIR IS NOT REQUIRED TO BE ENCLOSED WITH FIRE SEPARATIONS.

10.0 SPATIAL SEPARATIONS AND EXPOSURE PROTECTION

NOT APPLICABLE

11.0 BARRIER FREE REQUIREMENTS

NO CHANGES ARE CONTEMPLATED TO EXISTING BARRIER FREE FACILITIES. THE EXISTING WASHROOM TO BE RETAINED IS NOT BARRIER FREE AND IS NOT BEING MODIFIED AS PART OF THIS WORK. THE ADJACENT EXISTING BARRIER-FREE WASHROOM 145 INCLUDES A BARRIER-FREE SHOWER AND A BARRIER-FREE CHANGE SEAT. IT SERVES AS THE ACCESSIBLE SHOWER & CHANGE ROOM. THE REMOVAL OF EXISTING SHOWER STALLS WILL NOT REDUCE THE PERFORMANCE LEVEL OF THE BUILDING FROM A BARRIER-FREE ACCESSIBILITY PERSPECTIVE. ALL OTHER APPLICABLE REQUIREMENTS IN SECTION 3.8 OF THE OBC HAVE BEEN APPLIED.



1 A021 LIFE SAFETY & SCOPE OF WORK PLAN
Scale: 1 : 200

PROJECT NORTH

FIRE RATING LEGEND:
- SMOKE SEPARATION
- 1 HR. SEPARATION
- TRAVEL DISTANCE
- EXIT
- ACCESS TO EXIT

Name of Practice:
GEC Architecture
179 John St., Suite 403
Toronto, ON
M5T 1X4

Name of Project:
George Brown College Casa Loma Campus Athletics Renovation

Location:
George Brown College, Casa Loma Campus, 160 Kendal Ave, Toronto, ON, M5R 1M3

Date: July 14th, 2023

	Ontario Building Code Data Matrix Part 11 – Renovation of Existing Building		Building Code Reference [1]
11.00	Building Code Version:	O. Reg. 332/12 Last Amendment O. Reg. 451/22	
11.01	Project Type:	☐ Addition ☒ Renovation ☐ Addition and renovation ☐ Change of use Description: Basic Renovation – transfer shower stalls to changing stalls	[A] 1.1.2.
11.02	Major Occupancy Classification:	Occupancy: A2 — Use: Assembly - college	3.1.2.1.(1)
11.03	Superimposed Major Occupancies:	☒ No ☐ Yes Description:	3.2.2.7.
11.04	Building Area (m^2)	Description / Existing / New / Total: Varsity Lounge & Offices: 65 / 0 / 65 0 / 0 / 0 0 / 0 / 0 0 / 0 / 0 Insert additional lines as needed Total: 65 / 0 / 65	[A] 1.4.1.2.
11.05	Building Height	5 Storeys above grade; ____ (m) Above grade 1 Storeys below grade	[A] 1.4.1.2. & 3.2.1.1.
11.06	Number of Streets/ Firefighter access	No change street(s)	3.2.2.10. & 3.2.5.
11.07	Building Size	☐ Small ☐ Medium ☐ Large ☒ > Large	T.11.2.1.1.B.-N.
11.08	Existing Building Classification:	Change in Major Occupancy: ☐ Yes ☒ Not Applicable (no change of major occupancy) Construction Index: n/a Hazard Index: n/a Importance Category : ☐ Low ☒ Normal ☐ High ☐ Post-disaster	11.2.1.1. T 11.2.1.1A T 11.2.1.1B to N 4.1.2.1.(B), 5.2.2.1.(2)
11.09	Renovation type:	☒ Basic Renovation ☐ Extensive Renovation	11.3.3.1. 11.3.3.2.
11.10	Occupant Load	Floor Level/Area / Occupancy Type / Based On / Occupant Load (Persons): Level1 / No Change / No change / No change 0 0 Insert additional lines as needed 0	3.1.17.
11.11	Plumbing Fixture Requirements	Ratio: M/F = 1/1 Except as otherwise noted Floor Level/Area / Occupant Load / OBC Reference / Fixtures Required / Fixtures Provided: Level1 / No change / / No change / One water closet & one sink are removed Insert additional lines as needed	3.7.4.3
11.12	Barrier-free Design:	☒ Yes ☐ No — The renovated space comply with barrier-free requirement. The existing washroom is to remain as it is.	11.3.3.2.(2)
11.13	Reduction in Performance Level:	Structural: ☒ No ☐ Yes By Increase in occupant load: ☒ No ☐ Yes By change of major occupancy: ☒ No ☐ Yes Plumbing: ☒ No ☐ Yes Sewage-systems: ☒ No ☐ Yes Extension of combustible construction: ☒ No ☐ Yes	11.4.2.1. 11.4.2.2. 11.4.2.3. 11.4.2.4. 11.4.2.5. 11.4.2.6.
11.14	Compensating Construction:	☒ No ☐ Yes Structural: ☒ No ☐ Yes (Describe) Increase in occupant load: ☒ No ☐ Yes (Describe) Change of major occupancy: ☒ No ☐ Yes (Describe) Plumbing: ☐ No ☒ Yes 1 water close & 1 lavatory are removed. Change an existing men's single washroom to gender natural washroom Sewage systems: ☒ No ☐ Yes (Describe) Extension of combustible construction: ☒ No ☐ Yes (Describe)	11.4.3.1., 11.4.3.2, 11.4.3.3, 11.4.3.4, 11.4.3.5, 11.4.3.6, 11.4.3.7.
11.15	Compliance Alternatives Proposed:	☒ No ☐ Yes (list numbers and describe) (list numbers and describe) (list numbers and describe)	11.5.1.
11.16	Notes:	Insert additional lines as needed	11.5.1.

gec architecture

Project Team:

Prime Consultant
GEC ARCHITECTURE

Structural Consultant
RJC Engineers

Mechanical Consultant
MCW Consultants Ltd.

Electrical Consultant
MCW Consultants Ltd.

Civil Consultant

Landscape Consultant

Consultant Other

Client
GEORGE BROWN COLLEGE

Seal & Permit

NO.	ISSUED FOR	DATE
4	ISSUED FOR CONSTRUCTION	2023-11-21
3	ISSUED FOR BP & TENDER	2023-09-20
2	ISSUED FOR PRE-TENDER REVIEW	2023-09-08
1	ISSUED FOR CLIENT 60% REVIEW	2023-08-18

Drawing History

Scale: As indicated
Checked By: Checker

Project
GBC ATHLETICS RENOVATION
George Brown College, Casa Loma Campus, 160 Kendal Ave, Toronto, ON, M5R 1M3

Drawing Title
BUILDING CODE ANALYSIS

Project Number: 6010
Drawing Number: A021

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ABBREVIATIONS

A.C.T.	ACOUSTIC CEILING TILE
A.F.F.	ABOVE FINISHED FLOOR
ALUM. OR AL	ALUMINUM
ANOD.	ANODIZED
ARCH.	ARCHITECTURAL
CONC.	CONCRETE
CONST.	CONSTRUCTION
C.P.T.	CARPET
C/W	COMPLETE WITH
DIM.	DIMENSION
DTL	DETAIL
DR	DOOR
DWG.	DRAWING
ELECT.	ELECTRICAL
EL. OR ELEV.	ELEVATION
EQ	EQUAL
EQUIP.	EQUIPMENT
F.O.	FACE OF
FD	FLOOR DRAIN
HDWR	HARDWARE
FIN. FLR.	FINISH FLOOR
F.R.R.	FIRE RESISTANCE RATING
H	HEIGHT
HORIZ.	HORIZONTAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MIRR	MIRROR
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
OBC	ONTARIO BUILDING CODE
O.C.	ON CENTRE
O.H.	OVERHEAD
P.LAM	PLASTIC LAMINATE
REQ'D.	REQUIRED
RM.	ROOM
SIM.	SIMILAR
SPEC.	SPECIFICATION
SQ.	SQUARE
S.S.	STAINLESS STEEL
STRUCT.	STRUCTURAL
T.G.	TEMPERED GLASS
T.O.	TOP OF
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
U/S	UNDERSIDE
V.C.T.	VINYL COMPOSITION TILE
W	WIDTH

SYMBOL LEGEND

℄	CENTERLINE MARK
P#	PARTITION ASSEMBLY TYPE
IG#	INTERIOR GLAZING TYPE
C# / 2440	CEILING REFERENCE C# - CEILING TYPE 2440 - CEILING HEIGHT A.F.F. U.N.O.
ROOM NAME / 1001A	ROOM NAME & NUMBER
SIM / 1 / A101	WALL SECTION OR SECTION DETAIL 1 - SECTION NUMBER A101 - REFERENCE SHEET NUMBER
1 / 1 A101 1 / 1	ELEVATION SYMBOL 1 - DETAIL NUMBER A101 - REFERENCE SHEET NUMBER
1001.1	DOOR SYMBOL BY ROOM NUMBER REFER TO DOOR SCHEDULE
	EXISTING CONSTRUCTION
	CONCRETE (LARGE SCALE)
	CONCRETE BLOCK
	FIBERBOARD
	GYPSUM BOARD/SHEATHING
	PLYWOOD
	RIGID OR SEMI RIGID INSULATION
	BATT INSULATION

CONSTRUCTION NOTES

1. DRAWINGS ARE NOT TO BE SCALED
2. ALL DIMENSIONS ARE TO BE VERIFIED ON SITE.
3. BRING ALL OMISSIONS AND DISCREPANCIES, INCLUDING DIMENSIONS, TO THE ATTENTION OF THE CONSULTANT PRIOR TO COMMENCEMENT OF ANY WORK.
4. PROVIDE 19.1mm FIRE RATED PLYWOOD BACKING FOR TELEPHONES AND SURFACE MOUNTED ELECTRICAL PANELS UNLESS OTHERWISE NOTED.
5. FULLY COORDINATE ALL ADDITIONAL SUPPORT REQUIRED FOR ANCHORAGE OF MECHANICAL EQUIPMENT OR DUCTS AND ELECTRICAL FIXTURES.
6. ENSURE THAT WHEREVER A FIRE SEPARATION IS INDICATED ON THE DRAWINGS PER DIRECTION OF THE CONSTRUCTION NOTES, ALL COMPONENTS OF THE ASSEMBLY SHALL BE OF APPROVED MATERIALS, AND INSTALLATION/FABRICATION PROCEDURES ARE PER DIRECTION OF THE INDICATED "UNDERWRITERS LABORATORIES OF CANADA LTD." LATEST EDITION MANUAL AND OTHERWISE MEETING THE REQUIREMENTS OF THE ONTARIO BUILDING CODES. ALL FIRE SEPARATIONS MUST BE CONTINUOUS WITHIN THEIR EXTENT, AND ALL JOINTS TO BE SMOKE TIGHT.
7. DIMENSIONS INDICATED ARE FROM EXTERIOR FACE OF SHEATHING, CONCRETE OR CONCRETE BLOCK AT EXTERIOR WALLS AND FACE OF STEEL STUDS, CONCRETE AND CONCRETE BLOCK AT INTERIOR PARTITIONS.
8. OUTSIDE EDGE OF DOOR AND GLAZING FRAMES TO BE LOCATED 150mm AWAY FROM ADJACENT WALLS UNLESS OTHERWISE NOTED.
9. MAINTAIN CONTINUITY OF ALL FIRE SEPARATIONS AND PENETRATIONS WITH APPROVED U.L.C. LISTED FIRE STOPPING SYSTEMS AND FIRE SEALANTS BOTH SIDES OF PARTITIONS.
10. MAINTAIN CONTINUITY OF ALL ACOUSTIC SEPARATIONS AND PENETRATIONS WITH ACOUSTIC SEALANT BOTH SIDES OF PARTITIONS.
11. ISOLATE ALL MECHANICAL PIPES DUCTS AND EQUIPMENT FROM INTERIOR PARTITIONS TO AVOID ACOUSTIC NOISE TRANSFER.
12. PROVIDE SOLID BLOCKING IN GYPSUM BOARD PARTITIONS FOR ATTACHMENT OF EQUIPMENT, FIXTURES, HANDRAILS, LADDERS etc.

PARTITION ASSEMBLY NOTES:

1. REFER TO PARTITION CONSTRUCTION TYPES, THE SEQUENTIAL ORDER OF MATERIAL COMPONENTS LISTED FOR EACH PARTITION TYPE CORRESPONDS DIRECTLY TO THE SIDE THAT EACH PARTITION IS REFERENCED FROM ON FLOOR PLANS WITH A PARTITION TYPE.
2. ALL PARTITIONS INDICATED TO BE CONSTRUCTED WITH A "FIRE SEPARATION" SHALL EXTEND FULL HEIGHT TO THE UNDERSIDE OF FLOOR OR ROOF DECK AND BE FIRE STOPPED WITH A U.L.C. APPROVED FIRE-STOPPING SYSTEM COMPLETE WITH FIRE SEALANT BOTH SIDES.
3. ALL PENETRATIONS THROUGH PARTITIONS REQUIRED TO BE CONSTRUCTED AS A FIRE SEPARATION SHALL BE FIRE STOPPED WITH A U.L.C. LISTED FIRE- STOPPING MATERIAL C/W FIRE SEALANT BOTH SIDES.
4. ALL INTERIOR STEEL STUD PARTITIONS THAT EXTEND FULL HEIGHT TO ROOF DECK ABOVE, SHALL BE CONSTRUCTED WITH A 50mm DEEP TOP DEFLECTION TRACK. STOP VERTICAL STUDS SHORT BY ± 15mm WHICH WILL ALLOW FOR 15mm VERTICAL DEFLECTION. AT PARTITIONS WITH A FIRE RESISTANCE RATING, A SECOND STUD TRACK IS TO BE SET INTO THE 50mm TOP TRACK WHICH WILL ALLOW FOR 15mm DEFLECTION. U.L.C. LISTED FIRE STOPPING MATERIAL SHALL BE PLACED BETWEEN THE DOUBLE TOP TRACKS, AND FIRE SEALANT APPLIED AT BOTH SIDES OF PARTITION TOP, BOTTOM AND TO DIFFERENT DEFLECTION TRACK MAY BE USED IN LIEU OF A DOUBLE TOP TRACKS, AND FIRE SEALANT APPLIED AT BOTH SIDES OF PARTITION TOP, BOTTOM AND TO DIFFERENT ADJACENT CONSTRUCTIONS. A SINGLE 50mm DEEP SLOTTED DEFLECTION TRACK MAY BE USED IN LIEU OF A DOUBLE TOP TRACK. STOP VERTICAL STUDS ±15mm BELOW THE UNDERSIDE OF SLAB, AND SPACE IS FILLED WITH FIRE RATED ACOUSTIC SEALANT MAINTAINING FIRE RATING (ON BOTH SIDES) AS REQUIRED BY ASSOCIATED PARTITION TYPES WHILE MAINTAINING THE INTEGRITY OF THE U.L.C. DESIGN.
5. ALL PARTITIONS ARE TO BE FRAMED AROUND MECHANICAL AND ELECTRICAL SERVICES AS REQUIRED. STUD FRAMING OR FURRING CHANNELS SHALL NOT BE ATTACHED TO MECHANICAL DUCTWORK, TO AVOID ACOUSTIC VIBRATION NOISE TRANSFER.
6. ALL FIRE RATED PARTITIONS DENOTED AS A U.L.C. DESIGN SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE STANDARD OF CONSTRUCTION AND ACCEPTABLE MANUFACTURERS OF PARTICULAR MATERIALS LISTED INCLUDING FIRE RATED MATERIAL DESIGNATIONS UNDER MATERIAL "GUIDE NUMBERS" IN THE LATEST EDITION OF THE UNDERWRITE'S LABORATORIES OF CANADA MANUAL. PARTITION CONSTRUCTION TYPES LISTED IN APPENDIX A OF THE ONTARIO BUILDING CODES ARE NOT PERMITTED FOR FIRE RESISTANCE RATINGS, BUT ARE ACCEPTABLE FOR ACOUSTIC STC RATINGS LISTED.
7. PROVIDE 25mm DEFLECTION JOINT AT TOP OF CONCRETE BLOCK WALLS. AT CONCRETE BLOCK WALLS WITH A FIRE RESISTANCE RATING, FILL DEFLECTION GAP WITH U.L.C. APPROVED FIRE STOPPING MATERIAL COMPLETE WITH FIRE SEALANT BOTH SIDES.
8. REFER TO STRUCTURAL DOCUMENTS FOR CONCRETE BLOCK PARTITION REINFORCING, CORE FILLS, LINTELS AND BOND BEAMS.
9. WHERE GYPSUM BOARD MEETS ADJACENT MATERIALS, PROVIDE CONTINUOUS SEALED JOINT PERIMETER.
10. AT TUBS AND SHOWERS, MAINTAIN CONTINUITY OF FIRE RATED PARTITION ASSEMBLIES AND ADD 13mm MOISTURE RESISTANT GYPSUM BOARD.
11. AT ACOUSTIC PARTY WALLS AND SUITE TO CORRIDOR WALLS, PROVIDE ACOUSTIC / FIRE SEALANT TO BOTH SIDE OF PARTITION TOP AND BOTTOM STUD TRACKS AND ADJACENT TO CONCRETE WALLS / COLUMNS.
12. ALL PENETRATIONS THROUGH PARTITIONS REQUIRED TO BE CONSTRUCTED AS AN ACOUSTIC SEPARATION SHALL BE SEALED WITH ACOUSTIC SEALANT BOTH SIDES.

ASSEMBLY - PARTITION

TYPE	DESCRIPTION	FIRE RATING	STC	COMMENTS
P1A	FULL HEIGHT ACOUSTIC PARTITION TO U/S STRUCTURAL DECK - - 15.9mm GYPSUM BOARD - 92mm STEEL STUD @ 600mm O.C. MAX. - 89mm ACOUSTIC BATT INSULATION - 15.9mm GYPSUM BOARD	N/A	48	
P2	FURRING PARTITION TO 200mm ABOVE FINISHED CEILING - - 15.9mm GYPSUM BOARD -64mm STEEL STUD @ 600mm O.C. MAX.	N/A		PROVIDE PLYWOOD BACKING WHERE DIGITAL DISPLAY, & KITCHENETTE MILLWORK ARE INSTALLED
P3	FURRING WALL TO 200mm ABOVE FINISHED CEILING - 22mm FURRING CHANNEL 15.9mm GYPSUM BOARD	N/A		
P4	FIRE RATED FURRING WALL TO U/S STRUCTURAL DECK OR BEAM - 2 LAYERS 15.9mm FIRE RATED GYPSUM BOARD 41mm STEEL STUD	1H		TO MAINTAIN CONTINUITY OF EXISTING FIRE SEPARATION. REFER TO SB-2 2.6.1.F TABLE. FOLLOW ALL REQUIREMENTS OF 2.6.5 OF OBC SB-2 FOR GYPSUMBOARD INSTALLATION.
P5	PARTITION FROM TOP OF CEILING TO U/S STRUCTURAL BEAM - - 15.9mm GYPSUM BOARD - 152mm STEEL STUD @ 600mm O.C. MAX. - 15.9mm GYPSUM BOARD	N/A		
P5A	ACOUSTIC PARTITION TO U/S STRUCTURAL BEAM - - 15.9mm GYPSUM BOARD - 152mm STEEL STUD @ 600mm O.C. MAX. - 150mm ACOUSTIC BATT INSULATION - 15.9mm GYPSUM BOARD	N/A	51	

ASSEMBLY - CEILING

TYPE	DESCRIPTION	FIRE RATING	COMMENTS
C1	METAL SUSPENSION SYSTEM - - 610mm x 610mm ACOUSTIC CEILING TILE - METAL SUSPENSION SYSTEM		
C2	METAL SUSPENSION GRID - -15.9mm GYPSUM BOARD, PAINTED PT1 U.N.O. - 38mm CROSS TEE CHANNELS - 38mm METAL RUNER CHANNELS		

HARDWARE SCHEDULE:

HARDWARE MANUFACTURERS:
1. SARGENT – SARG
2. MEDECO – MEDE
3. HES – HES
4. SECURITY LOCKSMITH & DESIGN – SLD
5. RUTH - RUTH
6. KROM - KROM
7. JOHNSON CONTROLS, INC - JCI

GROUP 01
LOUNGE
915MM X 2150MM X 44MM (FRxxMIN) xxFR/xxDR
DR #: 144A

1	EA	MORTISE LOCKSET	8204LNP	SARG 26D
1	EA	CYLINDER	10H0200626	MEDE
1	EA	DOOR CLOSER	911DA689	KROM
1	EA	DOOR CLOSER STOP ARM	A911CSA689	KROM
1	EA	ELECTRIC STRIKE	FZ164-12/24V-630	RUTH
1	EA	CARD READER		JCI
1	EA	HINGES		

note: cylinder keyed to security override key (c/w cam & collar)

GROUP 02
EXISTING WASHROOM
EXISTING HARDWARE TO REMAIN

GROUP 03
VARSITY OPERATION OFFICE
915MM X 2150MM X 44MM (FRxxMIN) xxFR/xxDR
DR #: 144B

1	EA	MORTISE LOCKSET	8215LNP	SARG 26D
1	EA	CYLINDER - MEDE	10H0200626	MEDE
1	EA	WALL STOP	WS3C	KROM 26D
1	EA	HINGES		

note: cylinder keyed as CDA key (c/w cam & collar)

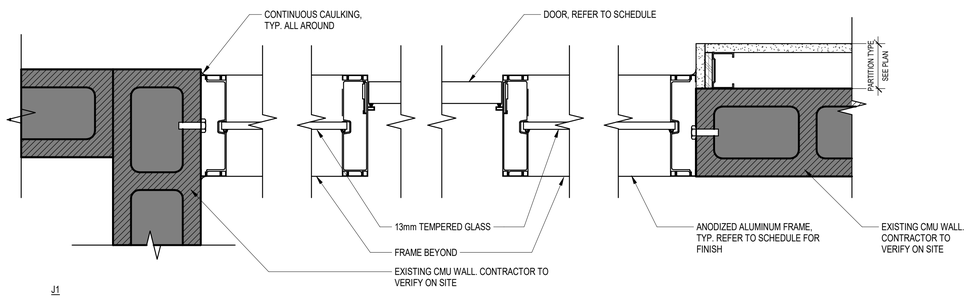
GROUP 04
COACHES' OFFICE
900MM X 2150MM X 44MM (FRxxMIN) xxFR/xxDR
DR #: 144C

1	EA	MORTISE LOCKSET	8205LNP	SARG 26D
1	EA	CYLINDER - MEDE	10H0200626	MEDE
1	EA	FLOOR STOP	DS29C	KROM 26D
1	EA	HINGES		

note: cylinder keyed to as CDA4 key (c/w cam & collar)

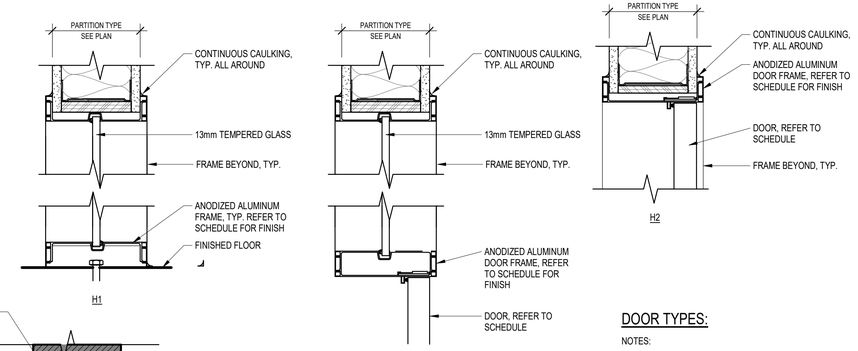
DOOR SCHEDULE STAGE 2

DOOR NUMBER	ROOM NAME	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAIL	HARDWARE	FIRE RATING	COMMENTS
LEVEL 01														
144A	EX CORRIDOR	915	2150	D1	ALUM.	CLEAR ANOD.	T.G.	IG1	ALUM.	CLEAR ANOD.	H1/J1	01	N/A	
144B	VARSITY OPERATIONS OFFICE	915	2150	D1	ALUM.	CLEAR ANOD.	T.G.	IG2	ALUM.	CLEAR ANOD.	H2/J1	03	N/A	
144C	VARSITY LOUNGE	915	2150	D1	ALUM.	CLEAR ANOD.	T.G.	IG2	ALUM.	CLEAR ANOD.	H2/J1	04	N/A	

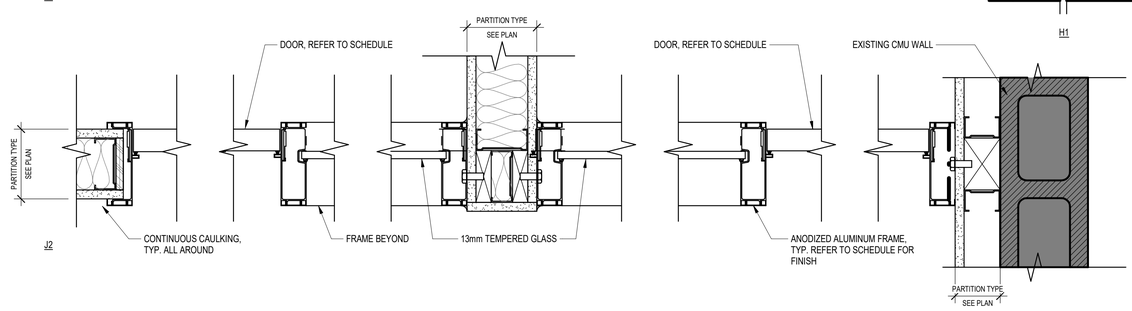


J1

HEADER & JAMB DETAILS



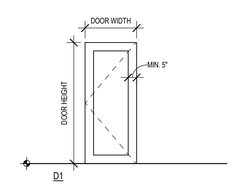
H1 H2 H3



J2

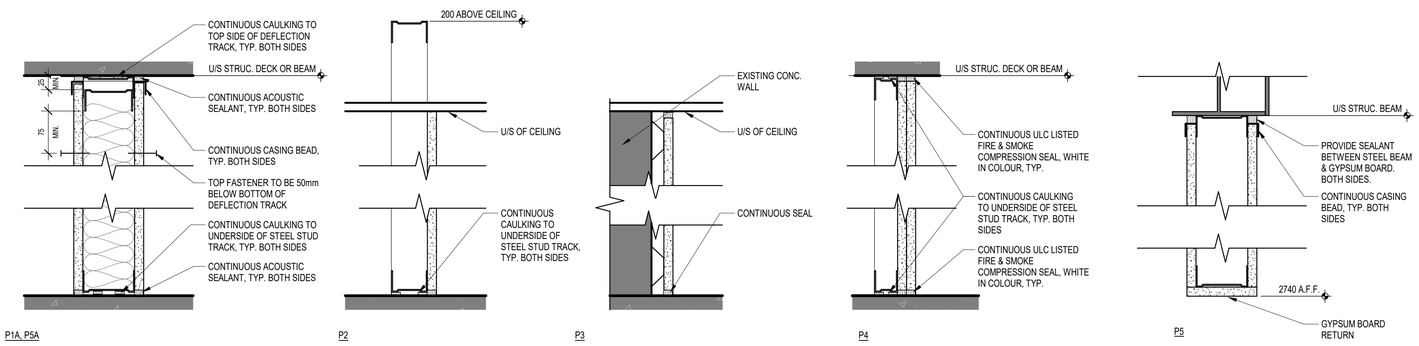
DOOR TYPES:

NOTES:



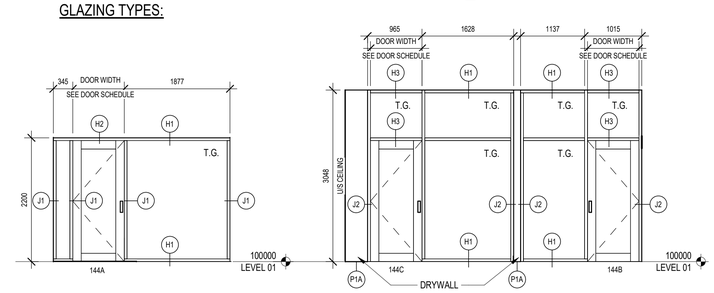
D1

PARTITION HEAD & SILL DETAILS



P1A, P5A P2 P3 P4 P5

GLAZING TYPES:



IG1 (ENTRANCE GLAZING) IG2 (OFFICE ELEVATION)

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Project Team:

Prime Consultant
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Structural Consultant
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Mechanical Consultant
MCW Consultants Ltd.

Electrical Consultant
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Landscape Consultant

Consultant Other

Client
GEORGE BROWN COLLEGE

Seal & Permit

NO.	ISSUED FOR	DATE
4	ISSUED FOR CONSTRUCTION	2023-11-21
3	ISSUED FOR BP & TENDER	2023-09-20
2	ISSUED FOR PRE-TENDER REVIEW	2023-09-08
1	ISSUED FOR CLIENT 60% REVIEW	2023-08-18

Drawing History

Scale: As indicated
Checked By: Checker

Project
GBC ATHLETICS RENOVATION
George Brown College, Casa Loma Campus, 160 Kendal Ave, Toronto, ON, M5R 1M3

Drawing Title
CONSTRUCTION NOTES & ASSEMBLY TYPES

Project Number: 6010
Drawing Number: A022

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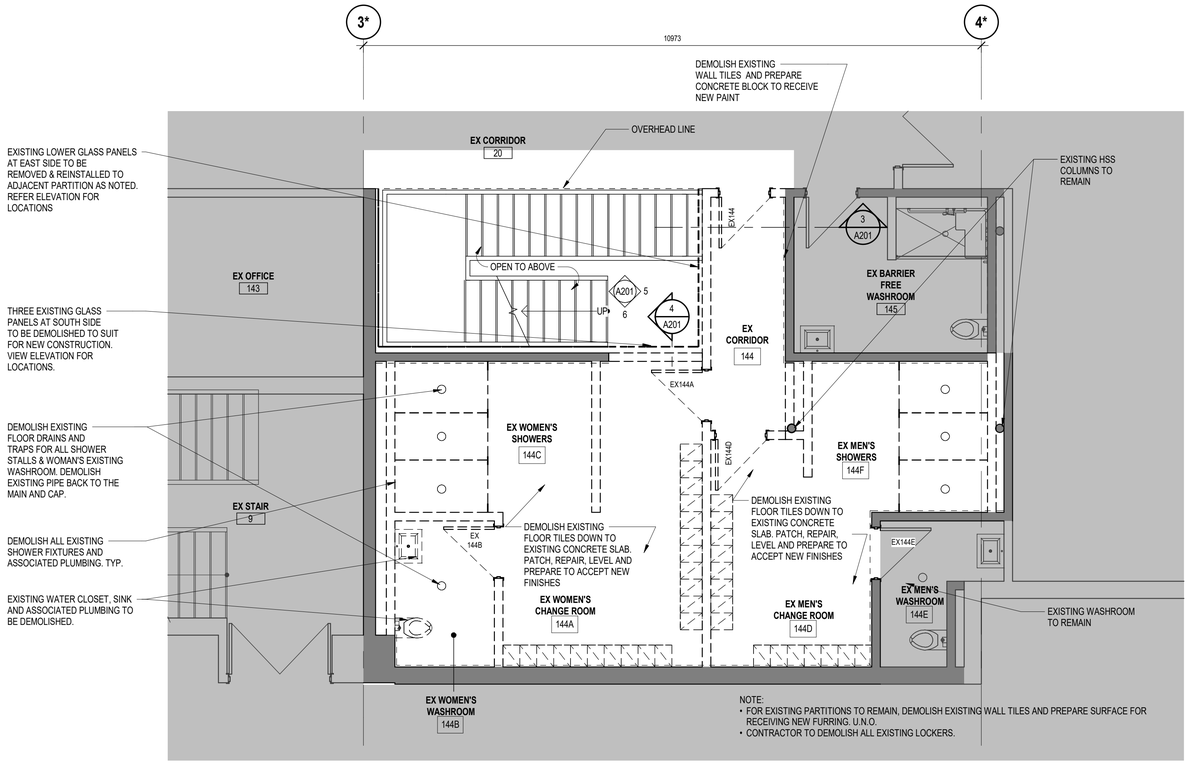
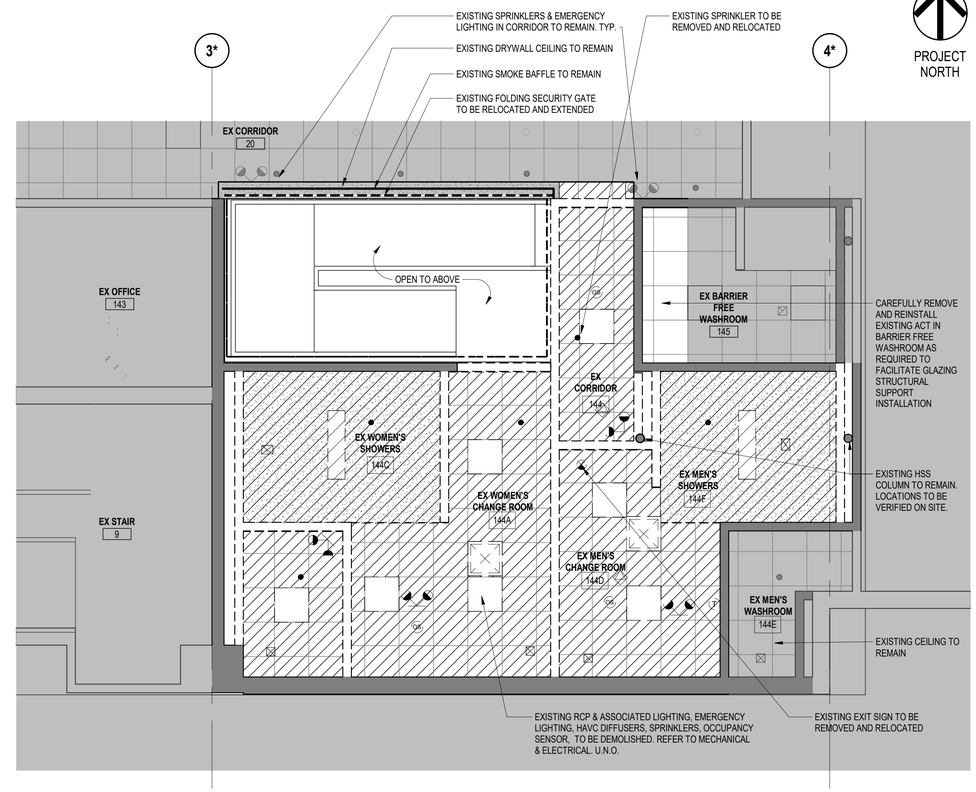
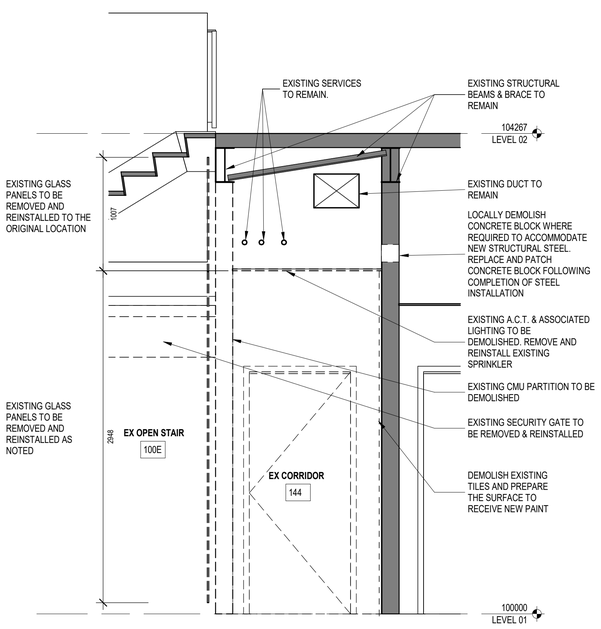


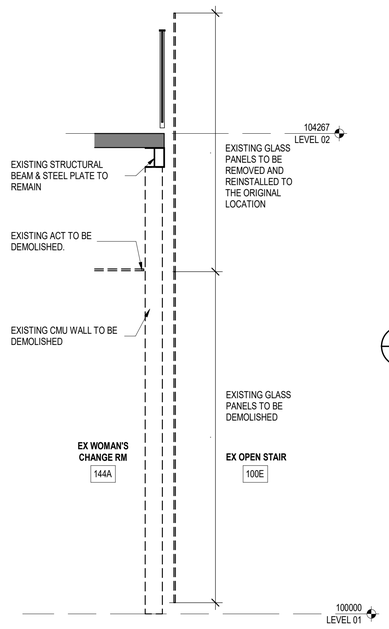
1 A201 LEVEL 01 DEMO FLOOR PLAN
Scale: 1 : 50



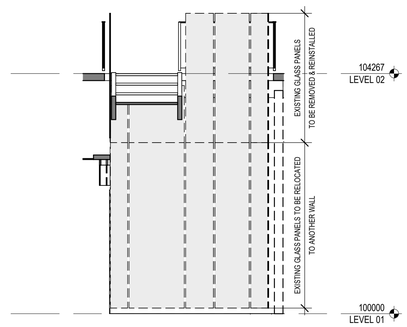
2 A201 LEVEL 01 DEMO RCP
Scale: 1 : 50



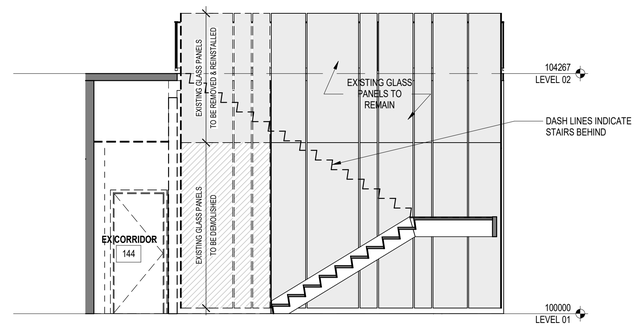
3 A201 DEMO SECTION THROUGH OPEN STAIR AND EAST PARTITION
Scale: 1 : 25



4 A201 DEMO SECTION THROUGH OPEN STAIR SOUTH PARTITION
Scale: 1 : 25



5 A201 OPEN STAIR EAST GLASS PANELS DEMO ELEVATION
Scale: 1 : 50



6 A201 OPEN STAIR SOUTH GLASS PANELS DEMO ELEVATION
Scale: 1 : 50

SCOPE OF WORK

- ARCHITECTURAL SCOPE OF WORK
- NOT IN ARCHITECTURAL SCOPE OF WORK

REFER TO S & M FOR RESPECTIVE SCOPES

DEMOLITION FLOOR PLAN LEGEND

- EXISTING TO REMAIN
- EXISTING TO DEMOLISH
- EXISTING GLASS PANELS TO REMAIN
- EXISTING GLASS PANELS TO REMOVED AND REINSTALLED
- EXISTING GLASS PANELS TO BE DEMOLISHED

DEMOLITION FLOOR PLAN LEGEND

- EXISTING TO REMAIN
- EXISTING TO DEMOLISH

DEMO FLOOR PLAN & RCP NOTES

1. * ALL GRID LINES ARE EXISTING GRID LINES
2. CONTRACTOR TO PROVIDE TEMPORARY SAFETY HOARDING AROUND THE STAIR OPENING ON SECOND FLOOR WHILE THE TEMPERED GLASS IS TEMPORARY REMOVED
3. CONTRACTOR IS RESPONSIBLE TO DISPOSE ALL EXISTING LOCKERS
4. CONTRACTOR TO REVIEW EXISTING SITE CONDITIONS TO REMAIN. PATCH AND REPAIR TO MATCH EXISTING ADJACENT SURFACE
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM ALL DIMENSIONS ON SITE
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM ALL ASSEMBLIES ON SITE

DEMO REFLECTED CEILING PLAN LEGEND

- EXISTING T-BAR CEILING TO BE DEMOLISHED
- EXISTING GYPSUM BOARD CEILING TO BE DEMOLISHED
- EXISTING ELECTRICAL LIGHT FIXTURE TO BE DEMOLISHED
- EXISTING MECHANICAL AIR TERMINAL TO BE DEMOLISHED
- OS — EXISTING OCCUPANCY SENSOR TO BE DEMOLISHED
- EXISTING SPRINKLER
- EXISTING EMERGENCY LIGHTING
- EXISTING EXIT SIGN

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Landscape Consultant

Consultant Other

Client
GEORGE BROWN COLLEGE

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1	ISSUED FOR CLIENT 60% REVIEW	2023-08-18

Drawing History

Scale: As indicated
Checked By: Checker

Project
GBC ATHLETICS RENOVATION
George Brown College, Casa Loma Campus, 160 Kendal Ave, Toronto, ON, M5R 1M3

Drawing Title
DEMO, PROPOSED FLOOR PLAN & DEMO RCP

Project Number: 6010
Drawing Number: A201

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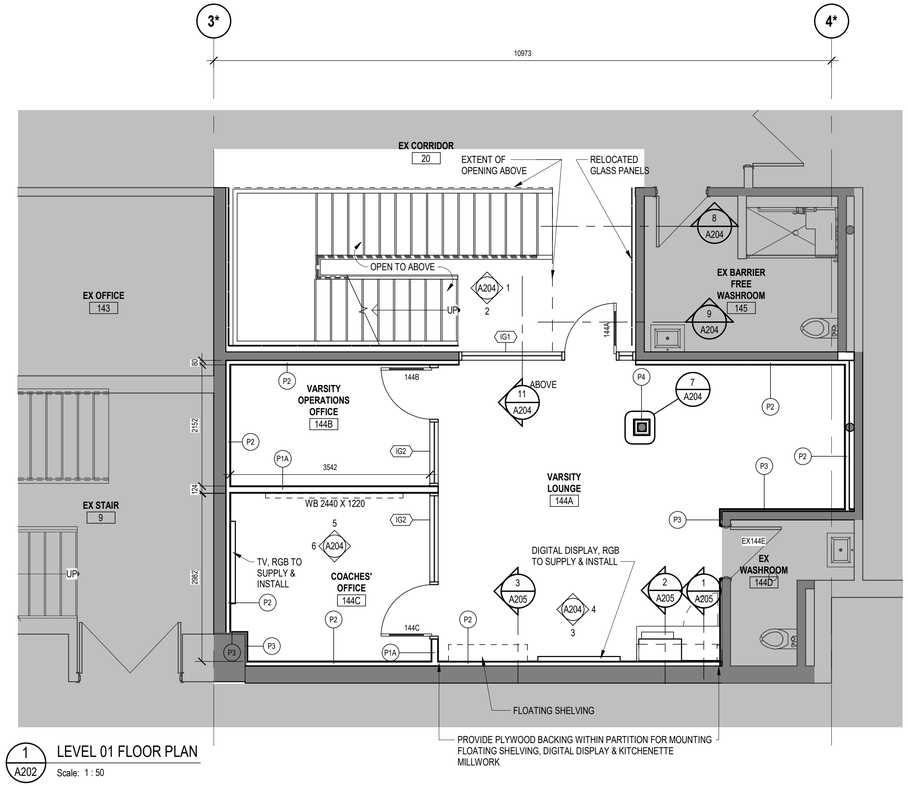
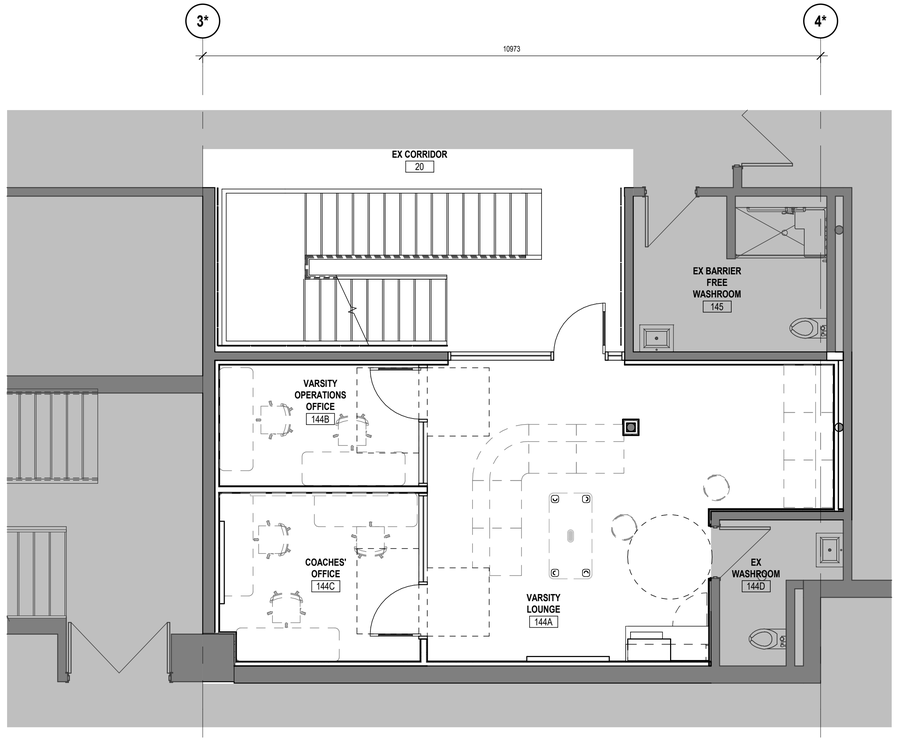


1 A202 LEVEL 01 FLOOR PLAN
Scale: 1 : 50



2 A202 LEVEL 01 FLOOR FURNITURE PLAN (FOR REFERENCE ONLY)
Scale: 1 : 50

3 A202 LEVEL 01 FLOOR FINISH PLAN
Scale: 1 : 50

SCOPE OF WORK

- ARCHITECTURAL SCOPE OF WORK
- NOT IN ARCHITECTURAL SCOPE OF WORK

REFER TO S & M FOR RESPECTIVE SCOPES

FLOOR PLAN LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- NEW DOOR
- EXISTING DOOR TO REMAIN

FLOOR PLAN NOTES

1. FURNITURE ARE NOT IN SCOPE
2. * ALL GRID LINES ARE EXISTING GRID LINES
3. REFER TO SPECS 09 99 99 MATERIAL LIST FOR FINISH & PRODUCT INFO
4. CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE
5. REFER TO MECH. DRAWINGS FOR MECHANICAL SCOPE
6. REFER TO ELEC. DRAWINGS FOR ELECTRICAL SCOPE
7. CONTRACTOR TO VERIFY ALL EXISTING WALL ASSEMBLIES ON SITE AS NEEDED
8. NEW SEAMLESS FLOORING IN CORRIDOR TO MATCH WITH EXISTING
9. PROVIDE RUBBER BASE THROUGHOUT

FLOOR FINISH PLAN LEGEND

- RESILIENT SHEET FLOORING
- CARPET TILE (PLANKS)
- VINYL PLANK FLOORING

ROOM FINISH SCHEDULE - LEVEL 01

ROOM NUMBER	NAME	FLOOR		WALLS				CEILING	MILLWORK	COMMENTS
		FINISH	BASE	NORTH FINISH	EAST FINISH	SOUTH FINISH	WEST FINISH	FINISH		
LEVEL 01										
144A	VARSITY LOUNGE	VT1	RB1	PT1 & IG1	PT1	PT1	PT1 & IG2	C1	KITCHENETTE & FLOATING SHELVING	
144B	VARSITY OPERATIONS OFFICE	CP1	RB1	PT1	IG2	PT1	PT1	C1		
144C	COACHES' OFFICE	CP1	RB1	PT1	PT1 & IG2	PT1	PT1	C1		

PROJECT NORTH

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Civil Consultant

Landscape Consultant

Consultant Other

Client
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Drawing History

Scale: As indicated
Checked By: Checker

Project
GBC ATHLETICS RENOVATION
George Brown College, Casa Loma Campus, 160 Kendal Ave, Toronto, ON, M5R 1M3

Drawing Title
PROPOSED FLOOR PLAN, FLOOR FINISH PLAN, RCP, INTERIOR ELEVATIONS

Project Number: 6010
Drawing Number: A202

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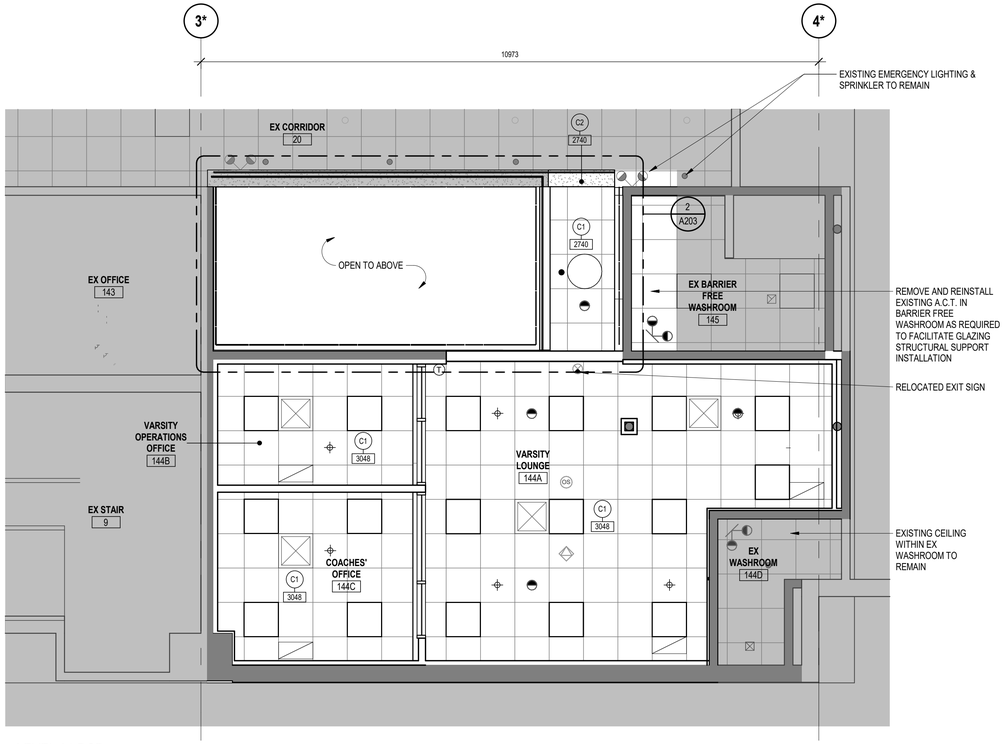
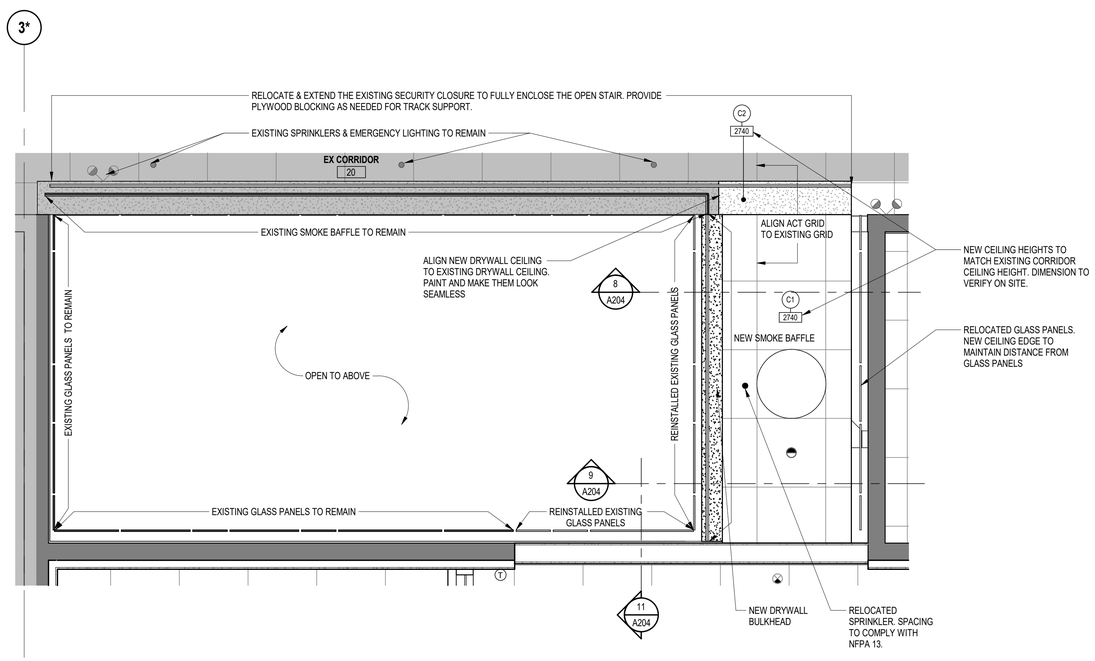


1 A203 LEVEL 01 RCP

Scale: 1 : 50



2 A203 ENLARGED RCP

Scale: 1 : 25

REFLECTED CEILING PLAN LEGEND

- NEW ACOUSTIC CEILING TILE
- NEW DRYWALL CEILING
- NEW RECESSED SQUARE LIGHTING
- NEW RECESSED CIRCULAR LIGHTING
- AIR SUPPLY DIFFUSER
- AIR RETURN DIFFUSER
- SPRINKLER
- EMERGENCY LIGHTING
- EXIT SIGN

REFLECTED CEILING PLAN NOTES

1. ALL DIMENSIONS TO BE VERIFIED ON SITE
2. ALL GYPSUM BOARD CEILINGS TO BE PAINTED **PT1** UNLESS OTHERWISE NOTED
3. PAINT ALL EXPOSED STRUCTURE, MECHANICAL EQUIPMENT, AND ELECTRICAL EQUIPMENT TO MATCH ADJACENT CEILINGS, UNLESS OTHERWISE NOTED
4. REFER TO SPECIFICATION SECTION 09 99 99 FOR FINISH CODES & DESCRIPTIONS
5. REFER TO MECHANICAL & ELECTRICAL FOR MECH. & ELEC. SCOPE
6. CONTRACTOR TO COORDINATE WITH THE ORIGINAL SUPPLIER - DYNAMIC CLOSURES FOR RELOCATING & EXTENDING EXISTING SECURITY GATE TO FULLY ENCLOSE THE OPEN STAIR

SCOPE OF WORK

- ARCHITECTURAL SCOPE OF WORK
- NOT IN ARCHITECTURAL SCOPE OF WORK

REFER TO S & M FOR RESPECTIVE SCOPES

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Project Team:

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Electrical Consultant
MCW Consultants Ltd.

Civil Consultant

Landscape Consultant

Consultant Other

Client
GEORGE BROWN COLLEGE

Seal & Permit

NO.	ISSUED FOR	DATE
2	ISSUED FOR CONSTRUCTION	2023-11-21
1	ISSUED FOR BP & TENDER	2023-09-20

Drawing History

Scale: As indicated

Checked By: Checker

Project

GBC ATHLETICS RENOVATION

George Brown College, Casa Loma Campus, 160 Kendal Ave, Toronto, ON, M5R 1M3

Drawing Title

PROPOSED RCP

Project Number: 6010

Drawing Number: A203

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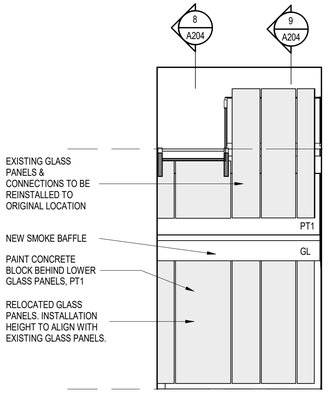
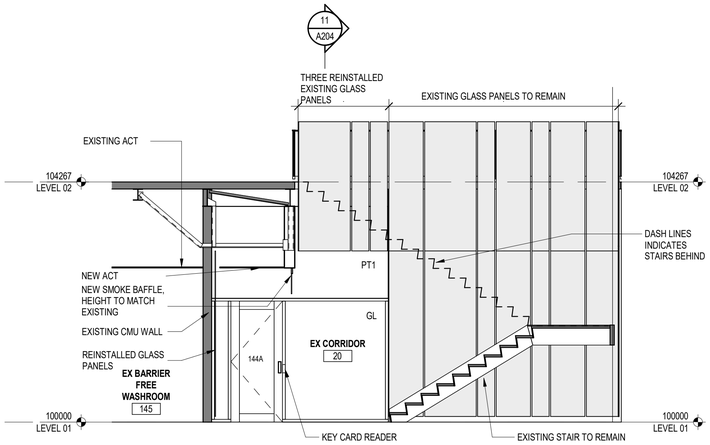
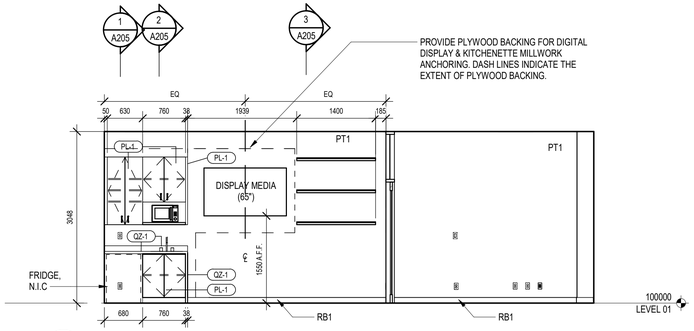


1 A204 OPEN STAIR EAST ELEVATION
Scale: 1 : 50



2 A204 OPEN STAIR SOUTH ELEVATION
Scale: 1 : 50



3 A204 VARSITY LOUNGE SOUTH ELEVATION
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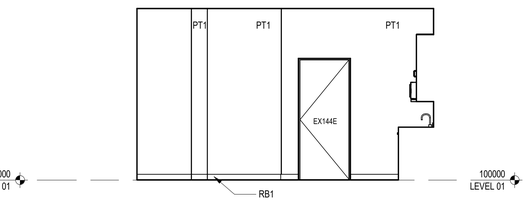

4 A204 VARSITY LOUNGE EAST ELEVATION
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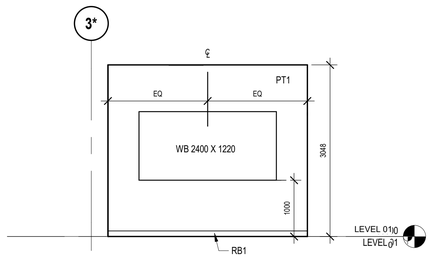
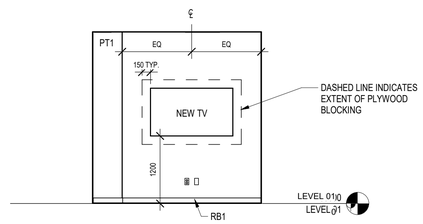


5 A204 COACHES' OFFICE NORTH ELEVATION
Scale: 1 : 50



6 A204 COACHES' OFFICE WEST ELEVATION
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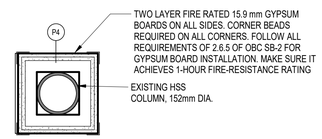

7 A204 FIRE PROTECTION FOR EXISTING HSS COLUMN
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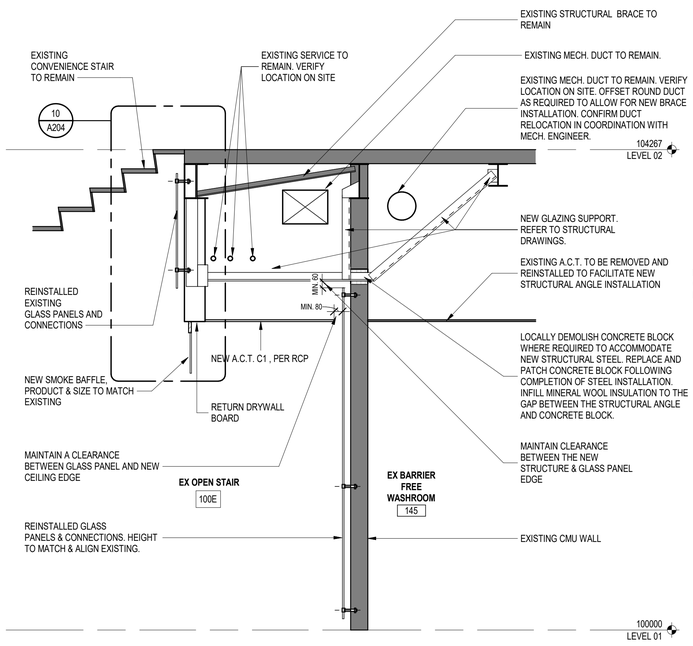
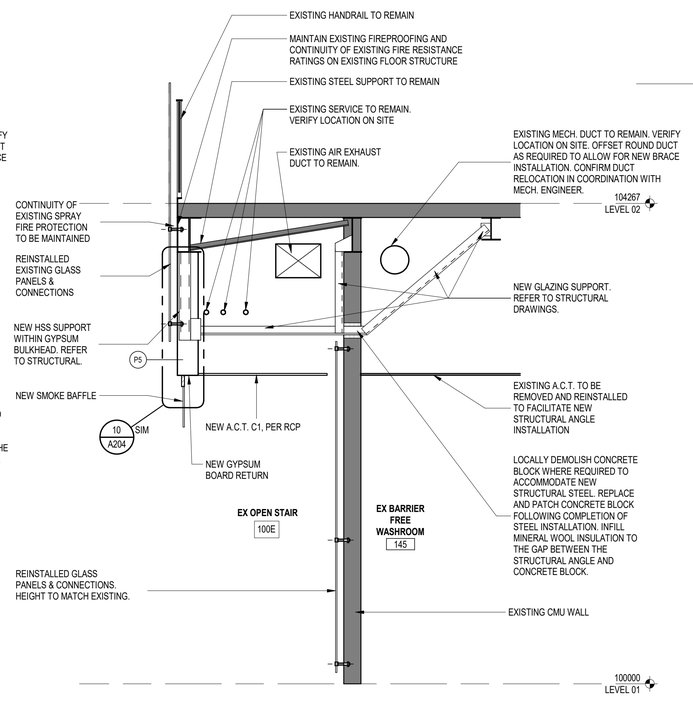


8 A204 SECTION THROUGH OPEN STAIR EAST WALL - AT STAIR
Scale: 1 : 25



9 A204 SECTION THROUGH OPEN STAIR EAST WALL - AT GUARD
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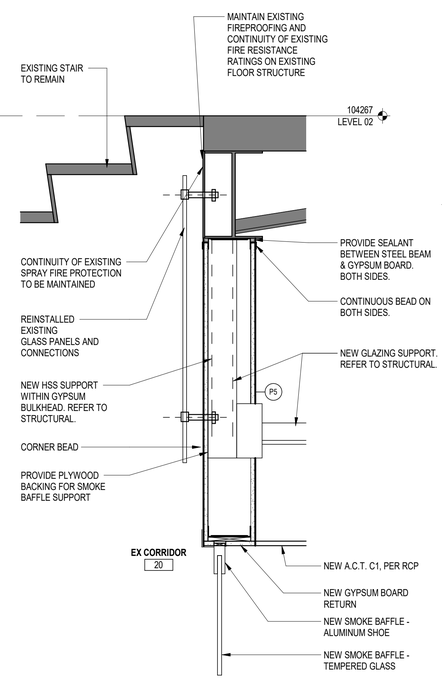
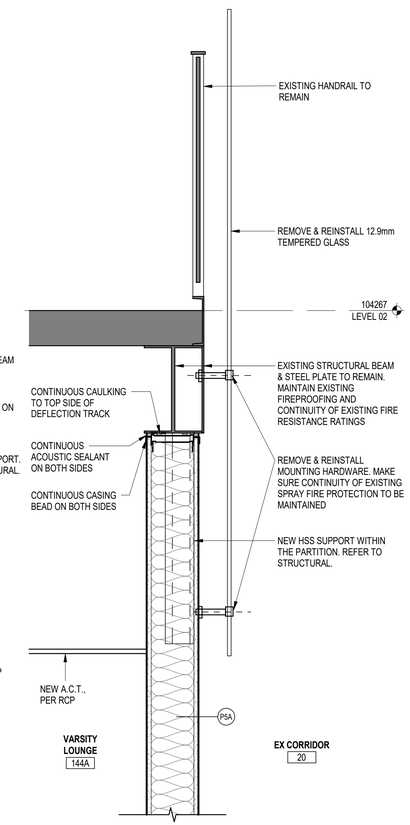


10 A204 SECTION THROUGH OPEN STAIR EAST WALL DETAIL
Scale: 1 : 10



11 A204 SECTION AT EXISTING GURAD
Scale: 1 : 10

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Project Team:

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Civil Consultant

Landscape Consultant

Consultant Other

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Drawing History

Scale: As indicated
Checked By: Checker

Project
GBC ATHLETICS RENOVATION
George Brown College, Casa Loma Campus, 160 Kendal Ave, Toronto, ON, M5R 1M3

Drawing Title
INTERIOR ELEVATIONS, WALL SECTIONS AND DETAILS

Project Number: 6010
Drawing Number: A204

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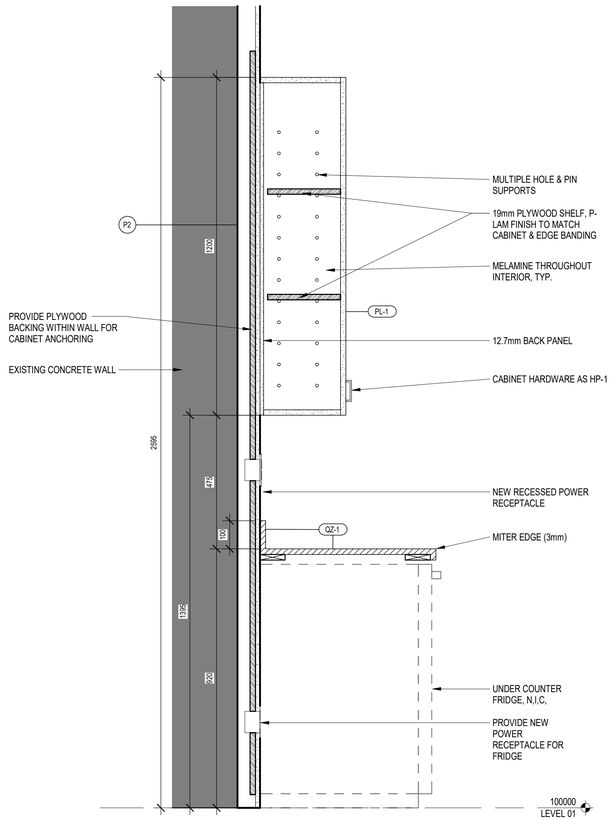
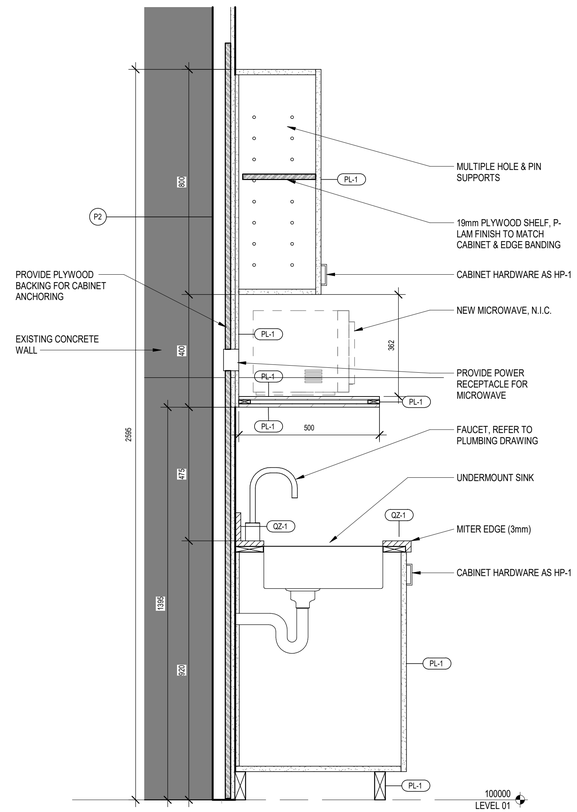


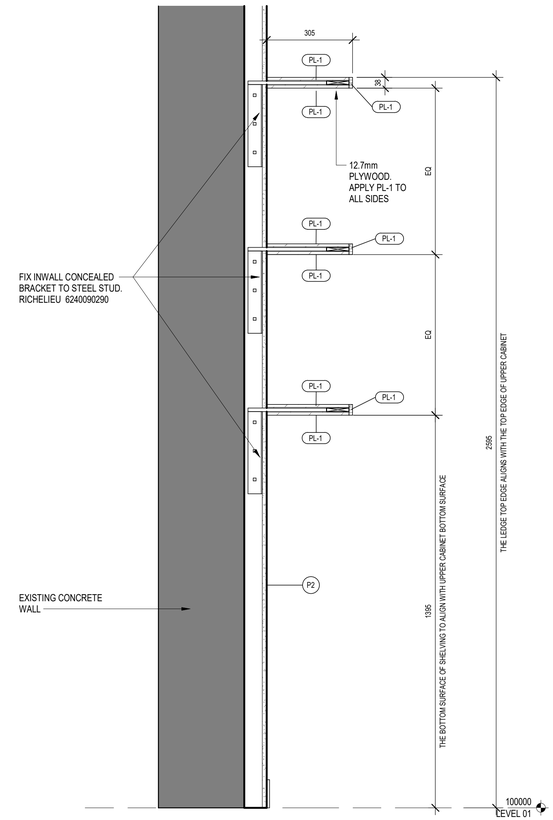
1 A205 MILLWORK SECTION CUT THROUGH FRIDGE

Scale: 1 : 10



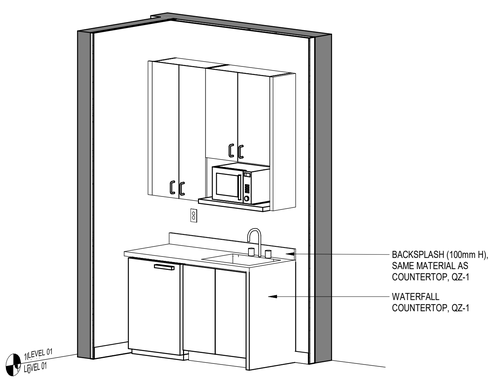
2 A205 MILLWORK SECTION CUT THROUGH SINK

Scale: 1 : 10



3 A205 TYPICAL FLOATING SHELVING SECTION

Scale: 1 : 10



4 A205 KITCHENETTE 3D VIEW

Scale:

gec architecture

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Electrical Consultant
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Civil Consultant

Landscape Consultant

Consultant Other

Client

GEORGE BROWN COLLEGE

Seal & Permit

NO.	ISSUED FOR	DATE
4	ISSUED FOR CONSTRUCTION	2023-11-21
3	ISSUED FOR BP & TENDER	2023-09-20
2	ISSUED FOR PRE-TENDER REVIEW	2023-09-08
1	ISSUED FOR CLIENT 60% REVIEW	2023-08-18

Drawing History

Scale: 1 : 10

Checked By: Checker

Project

GBC ATHLETICS RENOVATION

George Brown College, Casa Loma Campus, 160 Kendal Ave, Toronto, ON, M5R 1M3

Drawing Title

MILLWORK DETAILS

Project Number: 6010

Drawing Number: A205

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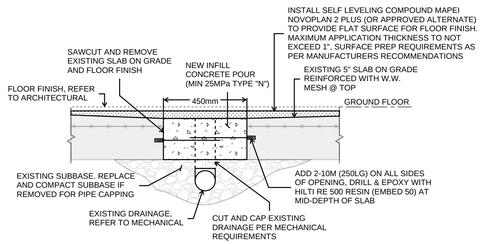
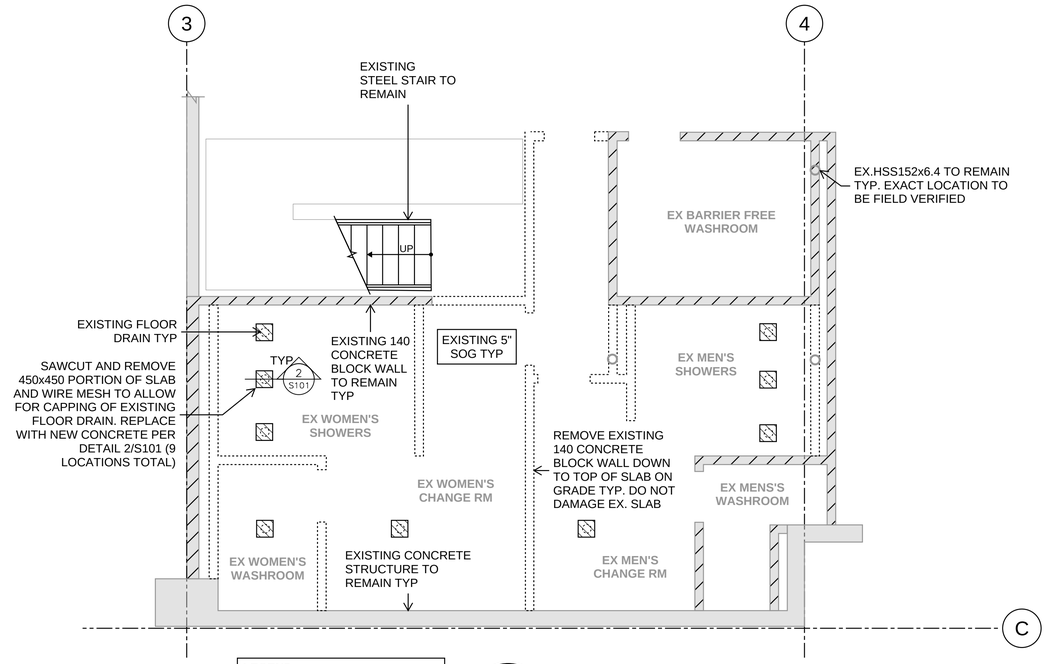


2 / S101 — SLAB REPAIR DETAIL AT EXISTING FLOOR DRAIN

N.T.S



LEGEND

- EXISTING STRUCTURE TO BE DEMOLISHED
- EXISTING STRUCTURE TO REMAIN

1 / S101 — FIRST FLOOR DEMO PLAN

N.T.S

STRUCTURAL STEEL - GENERAL

1. STRUCTURAL STEEL SECTIONS SHALL BE NEW AND CONFORM TO THE FOLLOWING U.N.O.:

   A. W AND WT SHAPES ---------- CSA G40.21 GRADE 345WM / ASTM A992
   B. C, L, M, MC, MT, S, AND ST SHAPES ---------- CSA G40.21 CSA G40.21 350W, ASTM A992, OR ASTM A572 GRADE 50
   C. HP SHAPES ---------- ASTM A572 GRADE 50
   D. RECTANGULAR OR SQUARE HSS ---------- ASTM A500 GRADE C. CSA G40.21 GRADE 350W,

   E. ROUND HSS ---------- ASTM A500 GRADE C
   F. PIPE ---------- ASTM A53 GRADE B
   G. ROLLED PLATES AND BARS ---------- CSA G40.21 GRADE 300W
   H. WWF AND WRF SHAPES ---------- CSA G40.21 GRADE 350W
   J. BOLTS (SEE PLANS AND DETAILS) --------- ASTM F3125 GRADE A325 OR A490
   K. STRUCTURAL STEEL ANCHOR RODS (UNLESS NOTED OTHERWISE) ---- ASTM F1554 GRADE 36 MINIMUM
   L. REINFORCING BAR ANCHOR BOLTS ----- CSA G30.18 GRADE 400R

2. USE OF STRUCTURAL STEEL SHAPES, PLATE OR BARS WITH HIGHER GRADE THAN NOTED ABOVE SUBJECT TO APPROVAL BY RJC.

3. ALL ASTM F1554 ANCHOR RODS SHALL HAVE SHOP-APPLIED COLOUR MARKING TO FACILITATE IDENTIFICATION OF GRADE IN FIELD: GRADE 36 = BLUE; GRADE 55 = YELLOW; GRADE 105 = RED.

STRUCTURAL STEEL - FABRICATION AND DETAILING

1. FABRICATION, ERECTION, STRUCTURAL DESIGN, AND DETAILING OF ALL STEEL SHALL BE IN ACCORDANCE WITH CSA S16.

2. PRIOR TO SUBMITTING SHOP DRAWINGS THE CONTRACTOR SHALL NOTIFY RJC IN WRITING THAT THE FABRICATOR IS CERTIFIED TO A MINIMUM OF DIVISION 2 OF CSA W47.1.

3. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO START OF STEEL FABRICATION. ALSO REFER TO "SHOP DRAWINGS" NOTE IN THE GENERAL NOTES SECTION OF THE STRUCTURAL DRAWINGS.

4. FILLET WELDS SHALL BE 5 mm MINIMUM UNLESS NOTED OTHERWISE.

5. BOLTS SHALL BE 3/4" MINIMUM A325 UNLESS NOTED OTHERWISE.

6. BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS IN EACH CONNECTED PIECE AND BE DESIGNED AS BEARING CONNECTIONS, U.N.O.

7. UNLESS NOTED OTHERWISE, BOLTED CONNECTIONS WITH OVERSIZED OR SLOTTED HOLES SHALL HAVE WASHERS PER CISC STANDARD PRACTICE:

   A. OVERSIZED AND SHORT SLOTS: HARDENED WASHERS.
   B. LONG SLOTS: PLATE WASHERS FULLY COVERING THE SLOTS.

8. IN ADDITION TO ALL OTHER CRITERIA SPECIFIED IN ASTM F1554, ALL HOOKED ANCHOR RODS IN CONCRETE SHALL BE MANUFACTURED WITH A MINIMUM INSIDE BEND RADIUS OF 3 TIMES THE ROD DIAMETER, UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL - CONNECTION DESIGN BY FABRICATOR

1. ALL CONNECTIONS TO BE DESIGNED BY FABRICATOR UNLESS NOTED OTHERWISE. ALL BEAM CONNECTIONS TO BE STANDARD FRAME BEAM CONNECTIONS OR EQUIVALENT, UNLESS NOTED OTHERWISE.
   THE FABRICATOR SHALL SUBMIT SUMMARY DESIGN DRAWINGS FOR REVIEW SHOWING IN DETAIL THE "STANDARD" CONNECTIONS AND THEIR CAPACITIES THAT IS INTENDED FOR USE ON THE PROJECT. THESE DRAWINGS ARE IN ADDITION TO THE REGULAR SHOP DRAWINGS, AND SHALL PRECEDE THEM.

2. SHOP DRAWINGS SHALL BE PREPARED UNDER THE DIRECTION OF A SPECIALTY STRUCTURAL ENGINEER. FOR THOSE CONNECTIONS AND COMPONENTS DESIGNED BY THE FABRICATOR, THIS ENGINEER OR THEIR REPRESENTATIVE SHALL VISIT THE SITE TO REVIEW IN PLACE THE CONNECTIONS AND COMPONENTS DESIGNED BY THIS ENGINEER TO SATISFY THEMSELVES THAT THESE CONNECTIONS AND COMPONENTS SUBSTANTIALLY COMPLY WITH THEIR DESIGN ON THE SHOP DRAWINGS. [THIS ENGINEER SHALL PROVIDE A LETTER TO RJC TO THIS EFFECT.] [THIS ENGINEER SHALL PROVIDE SCHEDULES S-B AND S-C FOR THEIR WORK.] THIS ENGINEER SHALL ALSO PROVIDE SEALED SKETCHES FOR ALL FIELD MODIFICATIONS MADE TO THEIR DESIGN.

3. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT IN WRITING (AND BEFORE THE SUBMISSION OF SHOP DRAWINGS) AS TO WHO THE ENGINEER WILL BE THAT WILL BE DESIGNING AND PROVIDING FIELD REVIEW FOR THE CONNECTIONS AND COMPONENTS DESIGNED BY THE CONTRACTOR.

4. DRAWINGS OF COMPONENTS AND CONNECTIONS DESIGNED BY THE FABRICATOR'S SPECIALTY STRUCTURAL ENGINEER SHALL BE SIGNED AND SEALED BY THIS ENGINEER OR A LETTER SHALL BE SUBMITTED AT THE END OF SHOP DRAWING PRODUCTION SIGNED AND SEALED BY THIS ENGINEER, IDENTIFYING WHAT WAS DESIGNED AND LISTING THE FINAL DRAWINGS WITH DATES AND REVISION NUMBERS.

5. CONNECTIONS AND SPLICES NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUESTED BY THE FABRICATOR MUST BE ACCEPTABLE TO RJC AND DETAILED ON THE SHOP DRAWINGS. TESTING OF THESE CONNECTIONS SHALL BE AT THE DISCRETION OF RJC AND TO THE CONTRACTORS ACCOUNT.

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.

CONCRETE

CONCRETE PLACEMENT

1. UNLESS NOTED OTHERWISE, ALL CONCRETE IS TO BE CAST-IN-PLACE. PLACEMENT BY THE WET-MIX SHOTCRETE METHOS IS NOT PERMITTED.

CONCRETE PROPERTIES

2. CONCRETE IS SPECIFIED AS PER THE "PERFORMANCE" ALTERNATE AS OUTLINED IN CSA A23.1.

3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR WORKING WITH THE CONCRETE SUPPLIER TO ENSURE THAT THE PLASTIC AND HARDENED MIX PROPERTIES MEETS THE SITE REQUIREMENTS FOR PLACING AND FINISHING. THE GENERAL CONTRACTOR SHALL MEET THE DOCUMENTATION AND QUALITY CONTROL REQUIREMENTS OUTLINED UNDER THE "PERFORMANCE" ALTERNATE OF CSA A23.1.

4. CONCRETE COMPRESSIVE STRENGTH AND EXPOSURE CLASS SHALL BE AS NOTED ON THE DRAWINGS.

5. SLUMP AND AGGREGATE SIZE TO BE DETERMINED BY THE GENERAL CONTRACTOR AND SUPPLIER TO MEET PLACEMENT AND FINISHING REQUIREMENTS WITHOUT SEGREGATION OF CONCRETE.

6. CURING OF CONCRETE TO MEET THE REQUIREMENTS FOR THE EXPOSURE CLASS AS OUTLINED IN CSA A23.1.

GENERAL

1. SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, DRAINAGE SLOPES, ETC.

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

3. CONCRETE WORK:
   SHALL CONFIRM TO CSA A23.1, CSA A23.2, CSA A23.3 AND REFERENCED DOCUMENTS.

4. DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS NOT INDICATED ON THE DRAWINGS, OR WITHOUT WRITTEN PERMISSION OF RJC.

5. DEFINITIONS:

   A. RJC: READ JONES CHRISTOFFERSEN OR ITS REPRESENTATIVE.

   B. SPECIALTY STRUCTURAL ENGINEER: A STRUCTUAL ENGINEER REGISTERED AND LICENSED TO PRACTICE BY THE PROFRSSIONAL ENGINEERING ASSOCIATION HAVING JURISDICTION IN THE AREA WHERE THE STRUCTURE IS TO BE BUILT.

   C. GENERAL CONTRACTOR: OR "CONTRACTOR" SHALL REFER TO THE PRIME PERSON OR COMPANY RESPONSIBLE FOR CONSTRUCTION OF THE PROJECT AND THE COORDINATION OF TRADES AND SUBCONTRACTORS.

gec architecture

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RJC Engineers

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MCW Consultants Ltd.

Electrical Consultant
MCW Consultants Ltd.

Civil Consultant

Landscape Consultant

Consultant Other

Client
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LICENSED PROFESSIONAL ENGINEER
2023-11-21
R. ALTENKIRCH
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PROVINCE OF ONTARIO

NO.	ISSUED FOR	DATE
5	ISSUED FOR CONSTRUCTION	2023-11-21
4	ISSUED FOR BP & TENDER	2023-09-20
3	ISSUED FOR PRE-TENDER REVIEW	2023-09-08
2	ISSUED FOR 90% CLIENT REVIEW	2023-08-29
1	ISSUED FOR 60% CLIENT REVIEW	2023-08-18

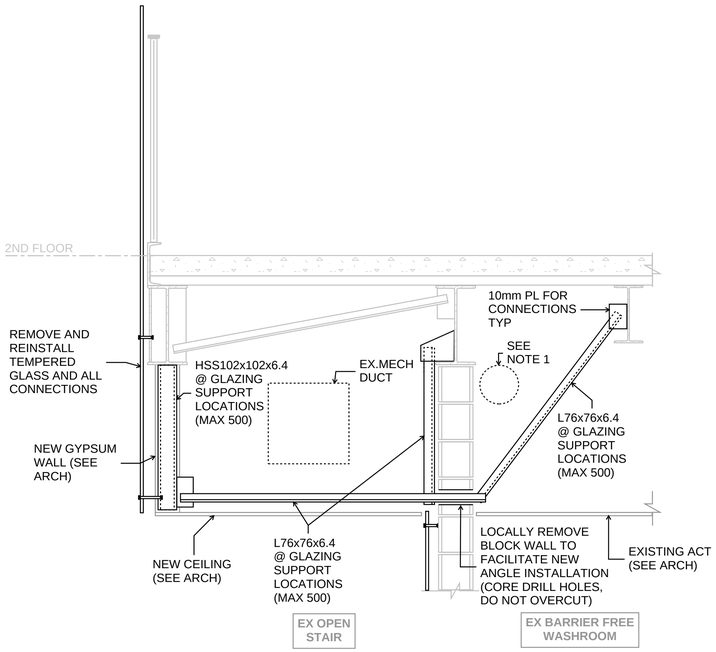
Drawing History

Scale: AS NOTED
Checked By: MT

Project
GBC ATHLETICS RENOVATION
George Brown College, Casa Loma Campus, 160 Kendal Ave, Toronto, ON, M5R 1M3

Drawing Title
GROUND FLOOR PLAN AND DETAILS

Project Number: TOR.110699.0002
Drawing Number: S101

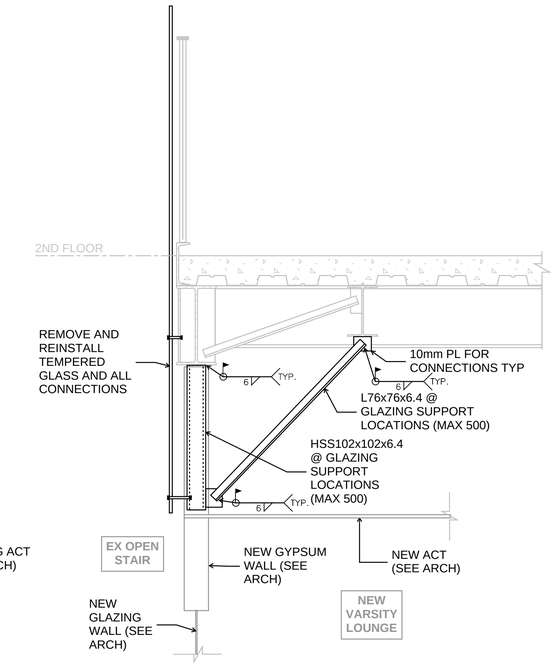


3 / S102 SECTION THROUGH EAST SIDE OF STAIR OPENING

N.T.S

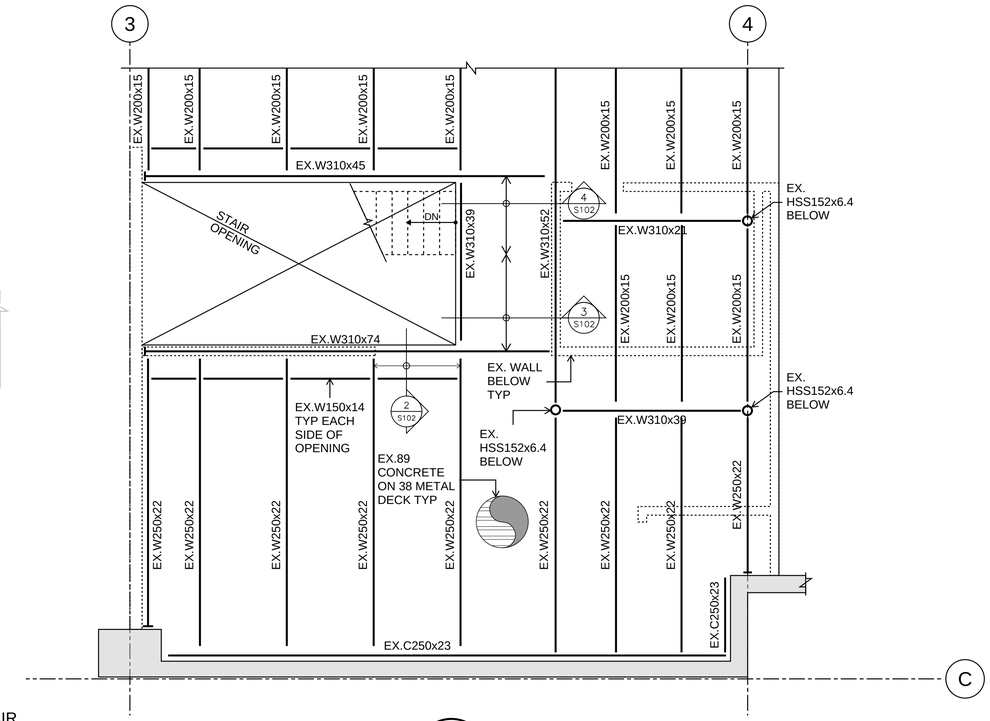
NOTES:

1. EXISTING ROUND DUCT LOCATION TO BE SITE VERIFIED BY CONTRACTOR. OFFSET/RELOCATE DUCT AS REQUIRED TO ALLOW FOR NEW BRACE INSTALLATION. CONFIRM DUCT RELOCATION IN COORDINAION WITH MECH TYP
2. REFER TO 2/S102 FOR TYP WELDING REQUIREMENTS



2 / S102 SECTION THROUGH SOUTH SIDE OF STAIR OPENING

N.T.S

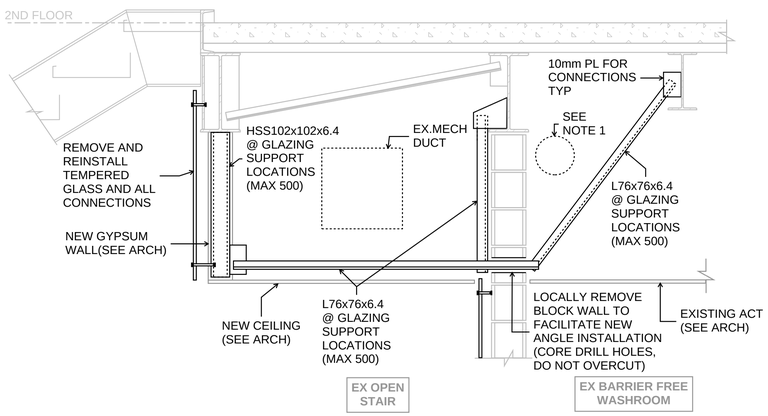


1 / S102 SECOND FLOOR PLAN

N.T.S

NOTES:

1. ALL EXISTING FRAMING MEMBERS TO REMAIN, DO NOT DAMAGE OR CUT EXISTING STRUCTURAL STEEL



4 / S102 SECTION THROUGH EAST SIDE OF STAIR OPENING AT STAIR STRINGER

N.T.S

NOTES:

1. EXISTING ROUND DUCT LOCATION TO BE SITE VERIFIED BY CONTRACTOR. OFFSET/RELOCATE DUCT AS REQUIRED TO ALLOW FOR NEW BRACE INSTALLATION. CONFIRM DUCT RELOCATION IN COORDINAION WITH MECH TYP
2. REFER TO 2/S102 FOR TYP WELDING REQUIREMENTS

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1	ISSUED FOR 60% CLIENT REVIEW	2023-08-18

Drawing History

Scale: AS NOTED

Checked By: MT

Project

GBC ATHLETICS RENOVATION

George Brown College, Casa Loma Campus, 160 Kendal Ave, Toronto, ON, M5R 1M3

Drawing Title

SECOND FLOOR PLAN AND DETAILS

Project Number: TOR.110699.0002

Drawing Number: S102

VALVES

- GATE VALVE
- BALL VALVE
- BUTTERFLY VALVE
- GLOBE VALVE (TOP / SIDE)
- CIRCUIT BALANCING VALVE
- HORIZONTAL VALVE
- ANGLE GLOBE VALVE
- AUTO-FLOW BALANCING VALVE
- TWO-WAY CONTROL VALVE
- TERMINAL CONTROL AND BALANCE VALVE
- PRESSURE INDEPENDENT CONTROL VALVE (PICV)
- THREE-WAY CONTROL VALVE
- SOLENOID OPERATED VALVE
- PLUG VALVE
- SHUTOFF COCK
- MANUAL THREE-WAY VALVE
- HAND WHEEL - RISING STEM (OS&Y)
- HAND WHEEL - NON-RISING STEM
- SV HAND WHEEL - SUPERVISED
- GEAR OPERATED MANUAL VALVE
- PINCH VALVE
- NEEDLE VALVE
- QUICK OPEN VALVE
- QUICK CLOSE VALVE
- BACK FLOW PREVENTOR
- SWING CHECK VALVE
- SPRING TYPE CHECK VALVE
- INLINE MULTIPURPOSE VALVE
- ANGLE MULTIPURPOSE VALVE
- REDUCED PRESSURE BACKFLOW PREVENTER
- DOUBLE CHECK VALVE ASSEMBLY
- DIFFERENTIAL PRESSURE CONTROL VALVE
- DIFFERENTIAL PRV REGULATOR
- REDUCING REGULATOR
- PRV GAS PRV
- SAFETY OR RELIEF VALVE
- HOSE BIBB VALVE

STEAM TRAPS

- IB INVERTED BUCKET
- F&T FLOAT AND THERMOSTATIC
- THERMOSTATIC
- TD THERMODYNAMIC (DISK)
- VO VARIABLE ORIFICE (PITON)
- FO FIXED ORIFICE

PIPE FITTINGS

- 90 DEGREE ELBOW
- 45 DEGREE ELBOW
- ELBOW UP
- ELBOW DOWN
- PIPE CAP
- TEE
- TEE UP
- TEE DOWN
- BOTTOM BRANCH
- TOP BRANCH
- FLANGE
- SCREWED UNION
- CONCENTRIC REDUCER
- FOB ECCENTRIC REDUCER (FLAT ON BOTTOM)
- FOT ECCENTRIC REDUCER (FLAT ON TOP)
- QUICK CONNECT
- SIGHT GLASS
- DRAIN CONNECTION

PIPE ACCESSORIES

- SIGHT GLASS
- VB VACUUM BREAKER
- GM GAS METER
- WM WATER METER
- M MAGNETIC FLOW METER
- FLEXIBLE CONNECTION
- INS HEAT TRACE (INSULATED)
- HEAT TRACE (NON-INSULATED)
- THRUST BLOCK
- PIPE ANCHOR
- PIPE GUIDES
- EXPANSION COMPENSATOR
- AV AUTO VENT
- MV MANUAL VENT
- AIR SEPARATOR
- PIPE SPRING HANGER
- PUMP SUCTION DIFFUSER
- BASKET STRAINER
- PIPE STRAINER
- PIPE STRAINER - WITH BLOWDOWN
- PIPE STRAINER - WITH BALL VALVE BLOWDOWN AND HOSE CONNECTION

MULTI-LINE VALVE SYMBOLS

- PIPE CAP
- REDUCER: CONCENTRIC
- REDUCER: ECCENTRIC
- TEE
- PIPE
- PIPE HANGER
- PIPE SLEEVE
- FLANGES: SLIP ON
- FLANGES: WELD NECK
- FLANGES: BLIND
- ELBOW DOWN (90°)
- ELBOW UP (90°)
- 11.25° ELBOW
- 22.5° ELBOW
- 45° ELBOW
- 90° ELBOW
- BUTERFLY VALVE (WITH WELDNECK FLANGES)
- BUTERFLY VALVE (WITH BLIND FLANGES)

PLUMBING FIXTURES

- TANK WC
- WALL WC (FLUSH VALVE) / FLOOR WC (FLUSH VALVE)
- URINAL
- SERVICE SINK / LAUNDRY TUB
- SINGLE BOWL SINK
- DOUBLE BOWL SINK
- WALL HUNG LAVATORY
- COUNTER MOUNT LAVATORY
- WASH FOUNTAIN
- WALL HUNG HANDICAPPED SINK
- DRINKING FOUNTAIN
- EMERGENCY EYEWASH
- BATHTUB
- SHOWER
- SINGLE / DOUBLE GAS SUPPLY VALVE

SITE ELEMENTS:

- SPLASH PAD
- CATCH BASIN
- CATCH BASIN (HALF)
- MANHOLE

FIRE PROTECTION

NOTE: DEMOLISHED ITEMS WITH "R" DENOTES "SAVE FOR REINSTALLATION IN NEW LOCATION"

- PENDANT
- PENDANT (EXISTING TO REMAIN)
- D PENDANT (DEMOLISHED)
- R PENDANT (REMOVE AND REINSTALL IN NEW LOCATION)
- RECESSED
- UPRIGHT
- CONCEALED
- DRY PENDANT
- DRY PENDANT (EXISTING)
- PRE-ACTION
- SIDEWALL
- CONCEALED SIDEWALL
- RECESSED SIDEWALL
- FIRE HOSE CABINET
- FIRE HOSE CABINET WITH HOSE REEL
- FIRE VALVE CABINET
- FE FIRE EXTINGUISHER
- FE FIRE EXTINGUISHER (EXISTING)
- SURFACE MOUNTED F.E. CABINET
- SEMI-RECESSED F.E. CABINET
- FULLY RECESSED F.E. CABINET
- FIRE HYDRANT (SINGLE OUTLET)
- FIRE HYDRANT (DOUBLE OUTLET)
- FIRE HYDRANT (TRIPLE OUTLET)
- FIRE HYDRANT (QUAD OUTLET)
- FIRE DEPARTMENT CONNECTION
- FIRE DEPARTMENT TEST CONNECTION
- WA WET ALARM VALVE
- DA DRY ALARM VALVE
- PA PRE-ACTION ALARM VALVE
- FIRE HAZARD LEVEL

CONTROLS AND CONTROL POINTS

- CONTROL WIRE
- T THERMOSTAT / SPACE TEMPERATURE SENSOR
- T THERMOSTAT WITH GAURD
- H HUMIDISTAT / HUMIDITY SENSOR
- CO2 SENSOR
- SWITCH
- PUSH BUTTON
- FS FLOW SWITCH
- PS PRESSURE SWITCH
- TS TEMPERATURE SWITCH
- AI CONTROL POINT - ANALOG INPUT
- AO CONTROL POINT - ANALOG OUTPUT
- DI CONTROL POINT - DIGITAL INPUT
- DO CONTROL POINT - DIGITAL OUTPUT
- COM CONTROL POINT - BACNET COMMUNICATIONS
- VFD VARIABLE FREQUENCY DRIVE
- ES END SWITCH
- DM DAMPER MOTOR
- TP TEMPERATURE PROBE
- FT FLOW TRANSMITTER
- HP HUMIDITY PROBE
- DP DIFFERENTIAL PRESSURE
- FZ FREEZE STAT
- OAT OUTSIDE AIR TEMPERATURE SENSOR
- PS PRESSURE SENSOR
- BTU BTU METER

PIPE INSTRUMENTS

- FLOW MEASUREMENT PORT
- INSTRUMENT WELL
- PRESSURE GAUGE
- TEMPERATURE OR PRESSURE TAP
- TEMPERATURE GAUGE

EXISTING/DEMOLISHED PIPING:

- [TYPE] EXISTING PIPEWORK TO BE DEMOLISHED
- [TYPE] EXISTING PIPEWORK TO REMAIN
- DCW EXISTING DOMESTIC COLD WATER
- DHW EXISTING DOMESTIC HOT WATER
- DHWR EXISTING DOMESTIC HOT WATER RECIRC.

PLUMBING:

- CA COMPRESSED AIR PIPE
- CV CENTRAL VAC - DRY MOP
- CV-W CENTRAL VAC - WET
- DCW DOMESTIC COLD WATER
- DHW DOMESTIC HOT WATER
- DHWR DOMESTIC HOT WATER RECIRC.
- PB DOMESTIC COLD WATER - PRESSURE BOOSTED
- SW SOFTENED DOMESTIC WATER
- TW DOMESTIC TEMPERED WATER
- NPW NON-POTABLE WATER PIPE
- SAN SANITARY DRAINAGE
- SAN SANITARY DRAINAGE (BELOW)
- V SANITARY VENT
- STW STORM WATER DRAINAGE
- STW STORM WATER DRAINAGE (BELOW)
- AW ACID WAST DRAINAGE PIPE
- AV ACID VENT PIPE
- GW GREY WATER DRAIN
- WT WEEPING TILE

FUEL PIPING:

- G NATURAL GAS - LOW PRESSURE
- MG NATURAL GAS - MEDIUM PRESSURE
- HG NATURAL GAS - HIGH PRESSURE
- P PROPANE
- FOF FUEL OIL SUPPLY
- FOS FUEL OIL SUPPLY
- FOR FUEL OIL RETURN
- FOV FUEL VENT

HEATING/COOLING PIPING:

- HWS HEATING WATER SUPPLY
- HWR HEATING WATER RETURN
- HGS HEATING GLYCOL SUPPLY
- HGR HEATING GLYCOL RETURN
- DTWS DUAL TEMPERATURE WATER SUPPLY
- DTWR DUAL TEMPERATURE WATER RETURN
- CWS CHILLED WATER SUPPLY
- CWR CHILLED WATER RETURN
- CS CONDENSER WATER SUPPLY
- CR CONDENSER WATER RETURN
- GWS GROUND WATER SUPPLY
- GWR GROUND WATER RETURN
- CGS CHILLED GLYCOL SUPPLY
- CGR CHILLED GYLCOL RETURN
- BS BRINE SUPPLY
- BR BRINE RETURN
- BV BRINE VENT
- RL REFRIGERANT LIQUID SUPPLY
- RV REFRIGERANT VAPOUR RETURN
- LPS LOW PRESSURE STEAM
- LPC LOW PRESSURE CONDENSATE
- MV MEDIUM PRESSURE STEAM
- MV MEDIUM PRESSURE CONDENSATE
- HPS HIGH PRESSURE STEAM
- HPC HIGH PRESSURE CONDENSATE

LAB GAS:

- LCA LAB COMPRESSED AIR
- CO2 LAB CARBON DIOXIDE GAS
- H2 LAB HYDROGEN GAS
- LN2 LIQUID NITROGEN
- N2 LAB NITROGEN GAS
- O2 LAB OXYGEN GAS
- VAC LAB VACUUM PIPING

MEDICAL GAS:

- MA MEDICAL AIR
- CO2 MEDICAL CO2
- N2 MEDICAL NITROGEN
- N2O MEDICAL NITROUS OXIDE
- O2 MEDICAL OXYGEN
- MGS MEDICAL GAS SCAVEGING
- MV MEDICAL VACUUM

SPRINKLER AND FIRE PROTECTION

- FIRE PROTECTION ZONE
- FIRE PROTECTION RATING
- F XXX(2) FIRE PROTECTION PIPE
- SP XXX(2) SPRINKLER MAIN
- XXX(2) SPRINKER BRANCH PIPING
- DSP XXX(2) DRY SPRINKLER PIPING
- PA XXX(2) PRE-ACTION SPRINKLER PIPING
- IG XXX(2) INERT GAS (CLEAN AGENT) PIPE

VENTILATION:

- TERMINAL BOX / WITH ATTENUATOR / AND REHEAT COIL
- DROP / RISE
- [TYPE] EXISTING DUCT TO REMAIN (TYPE INDICATED)
- EXISTING DUCT TO BE DEMOLISHED
- S/A SUPPLY AIR DUCT
- R/A RETURN AIR DUCT
- T/A TRANSFER AIR DUCT
- O/A OUTDOOR AIR DUCT
- G/E GENERAL EXHAUST DUCT
- W/E WASHROOM EXHAUST DUCT
- K/E KITCHEN EXHAUST DUCT
- F/E FUME HOOD EXHAUST DUCT
- RECTANGULAR DUCTS UP: (SUPPLY / RETURN / EXHAUST)
- RECTANGULAR DUCTS DOWN: (SUPPLY / RETURN / EXHAUST)
- MOTORIZED DAMPER / BALANCING DAMPER
- FIRE DAMPER / SMOKE DAMPER / COMBINATION FIRE-SMOKE DAMPER
- ROUND ELBOWS - 45°: R1.0 / R1.5 / R2.0
- ROUND ELBOWS - 90°: R1.0 / R1.5 / R2.0
- RECTANGULAR ELBOWS - 45°: R1.0 / R1.5
- RECTANGULAR ELBOWS - 90°: R1.0 / R1.5
- RECTANGULAR ELBOWS WITH TURNING VANES: (90° R1.0 / 45° R1.0 / 90° SQUARE)
- ACCOUSTICLY LINED DUCT
- GRILLES AND DIFFUSERS: SUPPLY / RETURN / EXHAUST
- SUPPLY DIFFUSERS: SQUARE / ROUND PLAQUE OR CONE
- HORIZONTAL OR WALL GRILLES / DIFFUSER: SUPPLY / RETURN OR EXHAUST.

PLUMBING & DRAINAGE

- SQUARE FLOOR DRAIN
- FUNNEL FLOOR DRAIN / FLOOR DRAIN / FLOOR DRAIN WITH TRAP
- HUB DRAIN / WITH TRAP
- ROOF DRAIN
- CLEAN OUT PLUG / FLOOR
- P-TRAP / SINK TRAP / P-TRAP BELOW GRADE
- HOT / DRAIN / COLD CONNECTIONS
- WATER HAMMER ARRESTOR
- PLUMBING EQUIPMENT - INTERCEPTOR
- PLUMBING EQUIPMENT - WATER HEATER

- PIPEWORK SHORTENED FOR CLARITY
- PIPEWORK CONTINUED ELSEWHERE
- PIPEWORK SHORTENED FOR CLARITY (ALTERNATE SYMBOL)
- PIPE FLOW ARROW (SMALL)
- PIPE FLOW ARROW (LARGE)

EQUIPMENT:

- PUMP
- FIN TUBE RADIATION
- FIN TUBE RADIATION IN CABINET
- RADIANT PANEL
- UNIT HEATER (HORIZONTAL)
- UNIT HEATER (VERTICAL)

TAGS AND ANNOTATION:

- SCHEMATIC INLET/OUTLET
- TYPE PLUMBING FIXTURE TYPE TAG
- TYPE SIZE FLOW GRILLE / DIFFUSER TAG
- TYPE IN LENGTH OUTPUT FIN TUBE RADIATION TAG
- mm TYPE OUTPUT RADIANT PANEL TAG
- XXXX EQUIPMENT IDENTIFICATION TAG
- TP # TIE-IN POINT

EQUIPMENT ACRONYMS:

ACU-	AIR CONDITIONING UNIT
AHU-	AIR HANDLING UNIT
CAV-	CONSTANT AIR VOLUME TERMINAL UNIT
CH-	CHILLER
CP-	CONDENSATE PUMP
CU-	CONDENSING UNIT
CSG-	CLEAN STEAM GENERATOR
CUH-	CABINET UNIT HEATER
EAHU-	EXHAUST AIR HANDLING UNIT
EFC-	EVAPORATIVE FAN COOLER
ERV-	ENERGY RECOVERY VENTILATOR
ET-	EXPANSION TANK
EX-	EXAUST FAN
FCU-	FAN COIL
HRC-	HEAT RECOVERY COIL
HVU-	HEATING/VENTILATING UNIT
HX-	HEAT EXCHANGER
UH-	UNIT HEATER
VAV-	VARIABLE AIR VOLUME TERMINAL BOX
VFD-	VARIABLE FREQUENCY DRIVE
P-	PUMP
HC-	HEATING COIL
CC-	COOLING COIL
RHC-	REHEAT COIL
SC-	STEAM COIL
PF-	PRE-FILTER
FF-	FINAL FILTER
EF-	EXHAUST FAN
SF-	SUPPLY FAN
RF-	RETURN FAN
SAV-	SUPPLY AIR VALVE
EAV-	RETURN AIR VALVE

MEDICAL GAS VALVES

- MEDICAL GAS ZONE VALVE
- O2 MEDICAL GAS OUTLET (TYPE INDICATED)
- MEDICAL GAS - NON RETURN VALVE

- UP FROM BELOW / UP TO ABOVE
- DOWN TO BELOW / DOWN FROM ABOVE
- VENT UP FROM BELOW / UP TO ABOVE
- VENT UP FROM BELOW / UP TO VENT CAP

ACD	AUTOMATIC CONTROL DAMPER
AD	ACCESS DOOR
AP	ACCESS PANEL
AS	AIR SEPARATOR
BD	BALANCING DAMPER
BDD	BACKDRAFT DAMPER
FD	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER
FT	FLASH TANK
FTR	FINNED TUBE RADIATOR
H	HUMIDIFIER
MD	MOTORIZED DAMPER
OBD	OPPOSED BLADE DAMPER
PRV	PRESSURE REDUCING VALVE
SA	SOUND ATTENUATOR
SD	SMOKE DAMPER
SRV	SAFETY RELIEF VALVE

MECHANICAL DRAWING LIST

DWG NO.	DRAWING NAME
M0-00	MECHANICAL SYMBOL LEGEND, DRAWING LIST & GENERAL NOTES
M2-00	DRAINAGE PLANS
M2-01	PLUMBING & FIRE PROTECTION PLANS
M3-00	HVAC PLANS

GENERAL NOTES:

NOTE	DESCRIPTION
1.	THIS DRAWING SET SHALL BE READ IN CONJUCTURE WITH ARCHITURAL DRAWINGS.
2.	THIS DRAWING SET SHALL BE READ IN CONJUNTURE WITH THE MECHANICAL SPECIFICATIONS PROVIDED.
3.	DO NOT SCALE DRAWINGS. LOCATIONS OF ITEMS ARE APPROXIMATE AND ARE INTENDED TO BE USED FOR COORDINATION. EXACT LOCATIONS ARE DEPENDANT UPON SITE CONDITIONS. REVIEW ANY REVISIONS WITH CONSULTANT.
4.	ALL EXISTING EQUIPMENT TO REMAIN SHALL BE INSPECTED AND TESTED FOR PROPER OPERATIONS. REPORT RESULTS ON INSPECTION AND TESTNIG TO CONSULTANT.
5.	ALL DUCT AND PIPE ROUTING IS SHOWN DIAGRAMMATICALLY. CONFIRM EXACT ROUTING AND CO-ORDINATE WITH EXISTING DUCTWORK, PIPING, EQUIPMENT OR STRUCTURE ON SITE. PROVIDE OFFSETS AS REQUIRED.
6.	REFER TO ARCHITECTURAL FOR PROJECT PHASING AND CONSTRUCTION SCHEDULE.
7.	MAINTAIN SERVICE TO OCCUPIED AREAS. PROVIDE ALL TEMPORARY CONNECTIONS, RELOCATIONS, AND TEMPORARY EQUIPMENT REQUIRED TO ACCOMMODATE PHASING SCHEDULE.

gec architecture

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RJC Engineers

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Electrical Consultant
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Civil Consultant

Landscape Consultant

Consultant Other

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6	ISSUED FOR PERMIT & TENDER	2023-09-20
5	ISSUED FOR PRE-TENDER REVIEW	2023-09-08
4	ISSUED FOR PROGRESS	2023-09-01
3	ISSUED FOR CLIENT REVIEW 90%	2023-08-29
2	ISSUED FOR CLIENT REVIEW 60%	2023-08-18
1	ISSUED FOR STAGE 1 BP & TENDER	2023-07-14

Drawing History

Scale 1 : 1

Checked By ET

Project

GBC Athletics Renovation

George Brown College, Casa Loma Campus, 160 Kendral Ave. Toronto, ON, M5R 1M3

Drawing Title

MECHANICAL SYMBOL LEGEND, DRAWING LIST & GENERAL NOTES

Project Number 23183

Drawing Number M0-00

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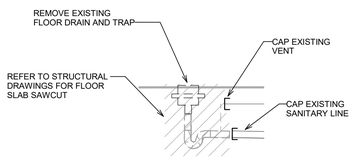
DRAINAGE GENERAL NOTES:	
NOTE	DESCRIPTION
1.	PIPE ROUTING IS SHOWN DIAGRAMMATICALLY AND INDICATES DESIGN INTENT. CONFIRM EXACT ROUTING AND CO-ORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, HANGERS, ELECTRICAL AND STRUCTURE ON SITE. PROVIDE OFFSETS AND ADJUST ROUTING AS REQUIRED.
2.	CO-ORDINATE EXACT SHUT DOWN DATES WITH OWNER. PROVIDE A MINIMUM OF ONE WEEK WRITTEN NOTICE PRIOR TO ANY SERVICE INTERRUPTIONS OR SHUT DOWNS.
3.	REFER TO ARCHITECTURAL FOR PROJECT PHASING AND CONSTRUCTION SCHEDULE.

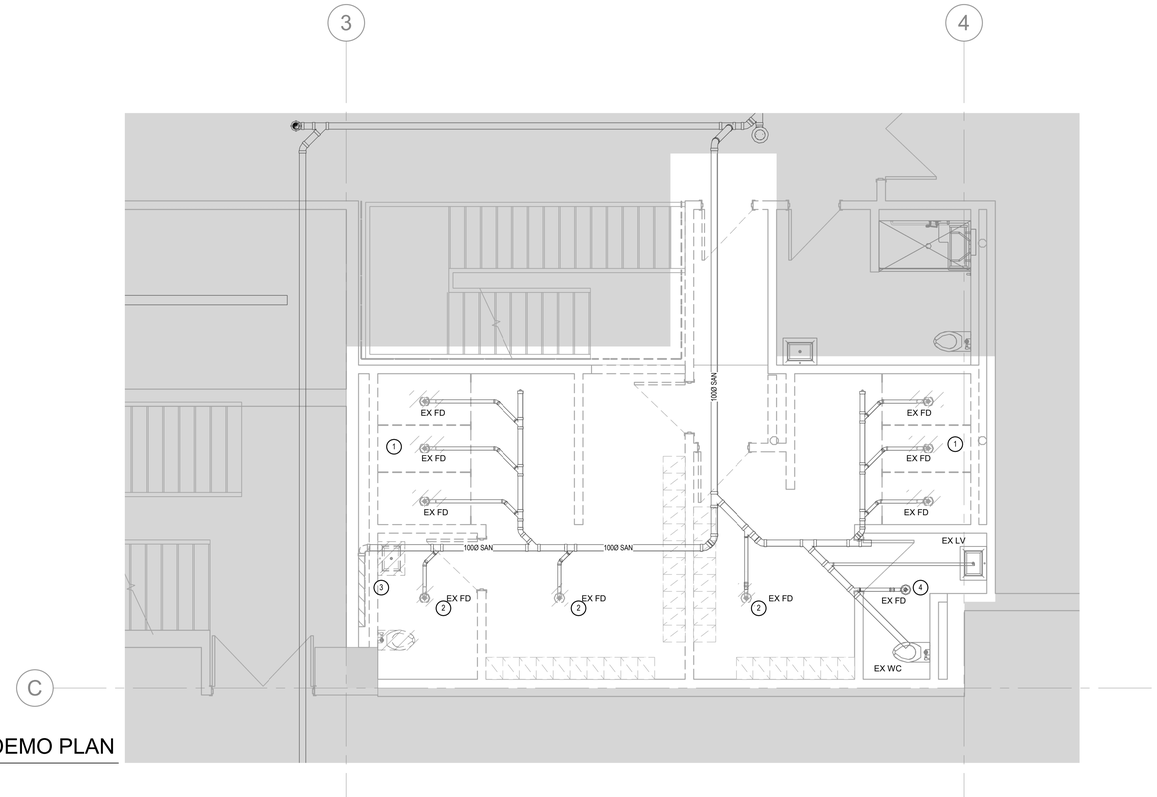
DRAINAGE DEMOLITION SHEETNOTES:	
NOTE	DESCRIPTION
1	EXISTING SHOWER DRAINS AND VENTS TO BE REMOVED. SEE DETAIL 3 ON THIS PAGE.
2	EXISTING FLOOR DRAIN AND VENTS TO BE REMOVED. SEE DETAIL 3 ON THIS PAGE.
3	EXISTING WATER CLOSET AND LAV TO BE REMOVED. CAP BACK SANITARY AND VENT CONNECTIONS IN PIPE CHASE.
4	EXISTING WASHROOM TO REMAIN.

DRAINAGE SHEETNOTES:	
NOTE	DESCRIPTION
1	NEW 40Ø DRAIN SERVING NEW S-1 WITH NEW 75Ø BURIED PIPE. CONNECT TO EXISTING.
2	CONNECT TO EXISTING PIPEWORK AT APPROXIMATELY THIS LOCATION. CONFIRM ON SITE.



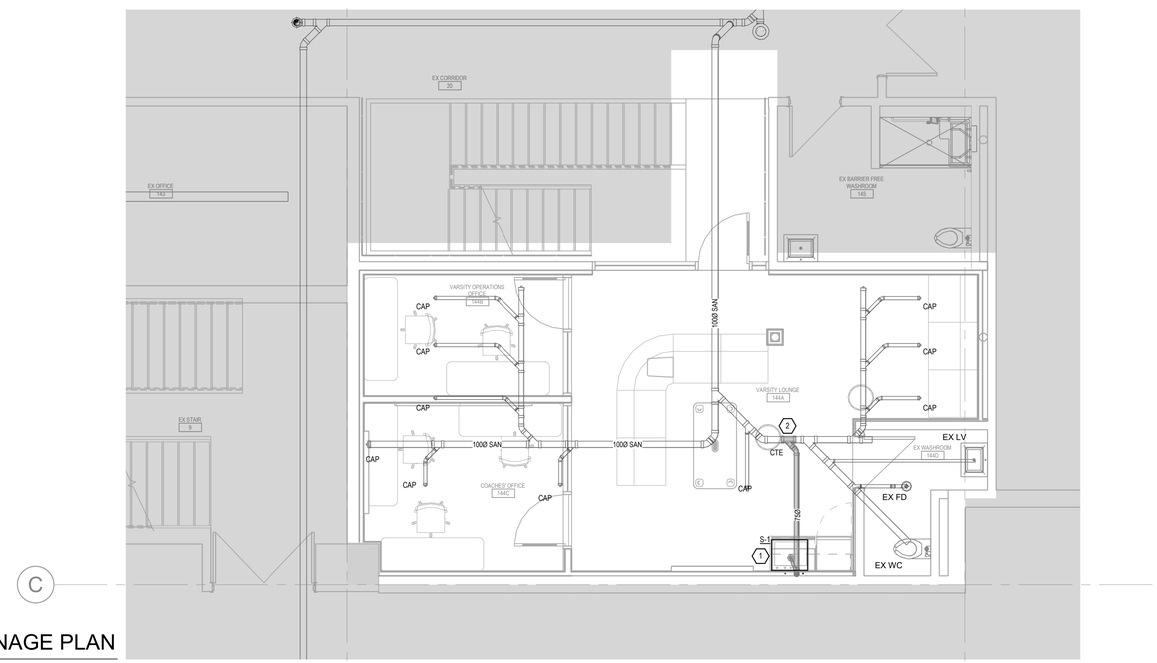
3 M2-00 EXISTING FLOOR DRAIN DEMOLITION

1 : 25



1 M2-00 DRAINAGE DEMO PLAN

1 : 50



2 M2-00 DRAINAGE PLAN

1 : 50

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2	ISSUED FOR CLIENT REVIEW 90%	2023-08-29
1	ISSUED FOR CLIENT REVIEW 60%	2023-08-18

Drawing History

Scale: As indicated

Checked By: ET

Project

GBC Athletics Renovation

George Brown College, Casa Loma Campus, 160 Kendral Ave, Toronto, ON, M5R 1M3

Drawing Title

DRAINAGE PLANS

Project Number: 23183

Drawing Number: M2-00

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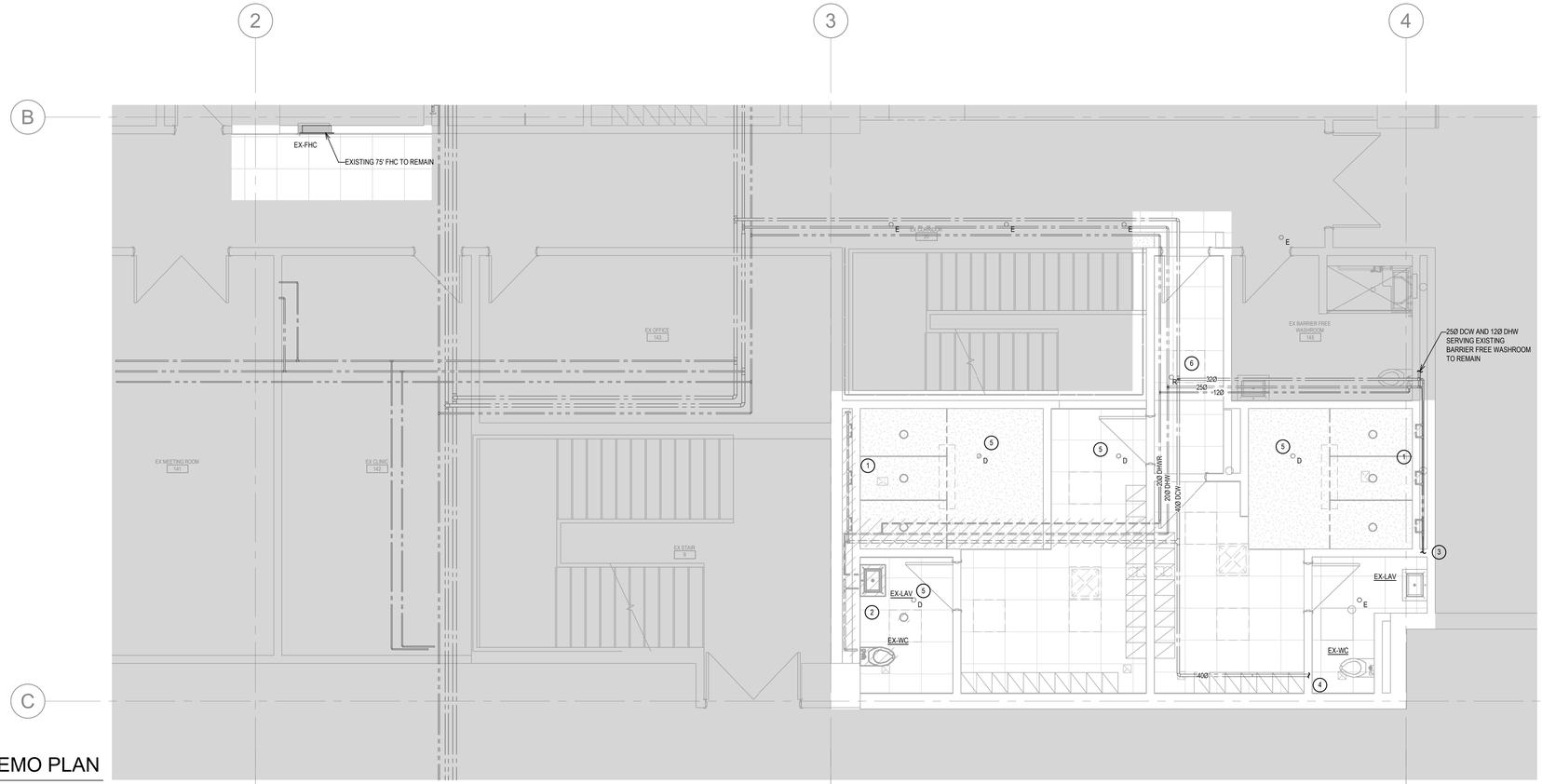
PLUMBING GENERAL NOTES:	
NOTE	DESCRIPTION
1.	PIPE ROUTING IS SHOWN DIAGRAMMATICALLY AND INDICATES DESIGN INTENT. CONFIRM EXACT ROUTING AND CO-ORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, HANGERS, ELECTRICAL AND STRUCTURE ON SITE. PROVIDE OFFSETS AND ADJUST ROUTING AS REQUIRED.
2.	CO-ORDINATE EXACT SHUT DOWN DATES WITH OWNER. PROVIDE A MINIMUM OF ONE WEEK WRITTEN NOTICE PRIOR TO ANY SERVICE INTERRUPTIONS OR SHUT DOWNS.
3.	REFER TO ARCHITECTURAL FOR PROJECT PHASING AND CONSTRUCTION SCHEDULE.

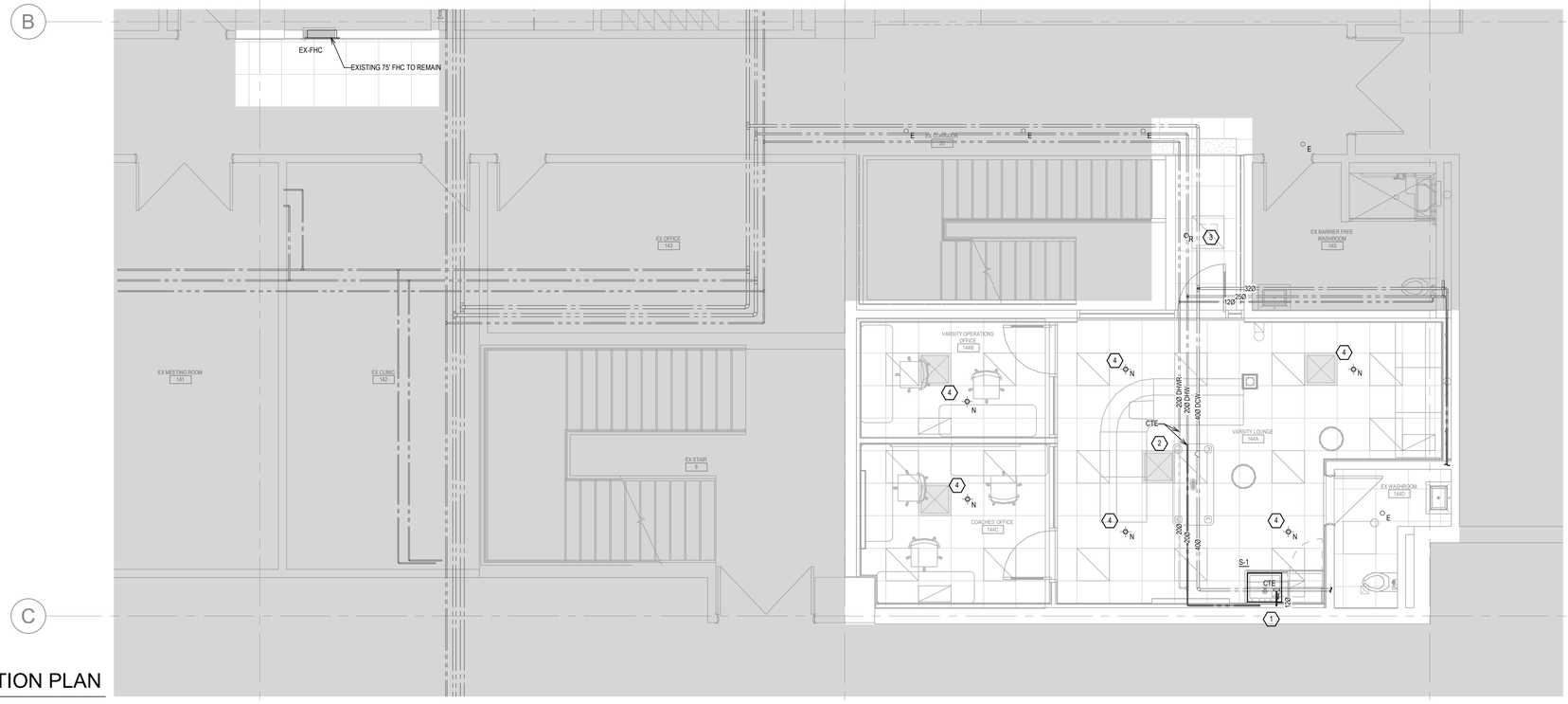
PLUMBING AND FIRE PROTECTION DEMOLITION SHEETNOTES:	
NOTE	DESCRIPTION
1	SHOWER HEADS, MIXING VALVES, AND DCW & DHW SHOWER PIPING TO BE REMOVED.
2	REMOVE DOMESTIC WATER CONNECTIONS TO EXISTING LAV AND EXISTING WATER CLOSET.
3	12Ø DHW AND DCW SERVING EXISTING LAV TO REMAIN.
4	40Ø DCW SERVING EXISTING WATER CLOSET TO REMAIN.
5	EXISTING SPRINKLER HEAD TO BE REMOVED. TYPICAL.
6	EXISTING SPRINKLER HEAD TO BE RELOCATED.



1 M2-01 PLUMBING & FIRE PROTECTION DEMO PLAN

1 : 50

PLUMBING AND FIRE PROTECTION SHEETNOTES:	
NOTE	DESCRIPTION
1	NEW 12Ø DHW AND DCW DOWN TO SERVE SINK S-1 C/W ISOLATION VALVE
2	CONNECT TO EXISTING PIPEWORK AT APPROXIMATELY THIS LOCATION. CONFIRM ON SITE.
3	NEW LOCATION FOR RELOCATED SPRINKLER HEAD. SPACING TO COMPLY WITH NFPA 13.
4	PROVIDE NEW SEMI-RECESSED SPRINKLER HEADS TO SUIT NEW LAYOUT.



2 M2-01 PLUMBING & FIRE PROTECTION PLAN

1 : 50

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1	ISSUED FOR CLIENT REVIEW 60%	2023-08-18

Drawing History

Scale: As indicated

Checked By: ET

Project

GBC Athletics Renovation

George Brown College, Casa Loma Campus, 160 Kendral Ave. Toronto, ON, M5R 1M3

Drawing Title

PLUMBING & FIRE PROTECTION PLANS

Project Number: 23183

Drawing Number: M2-01

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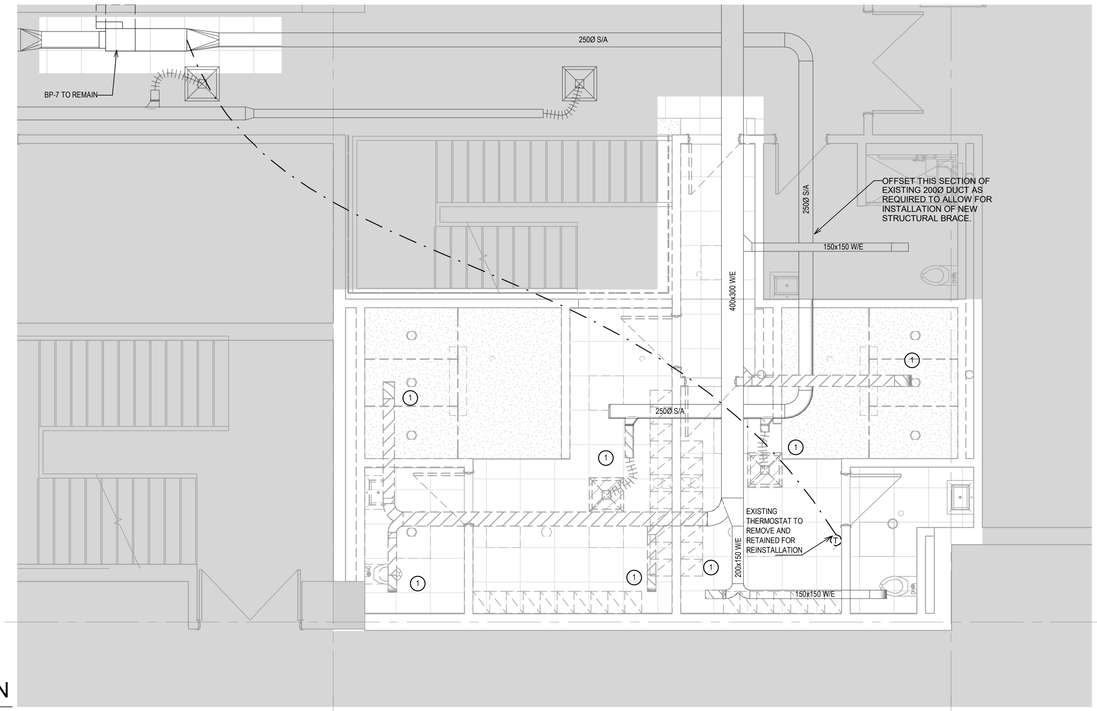
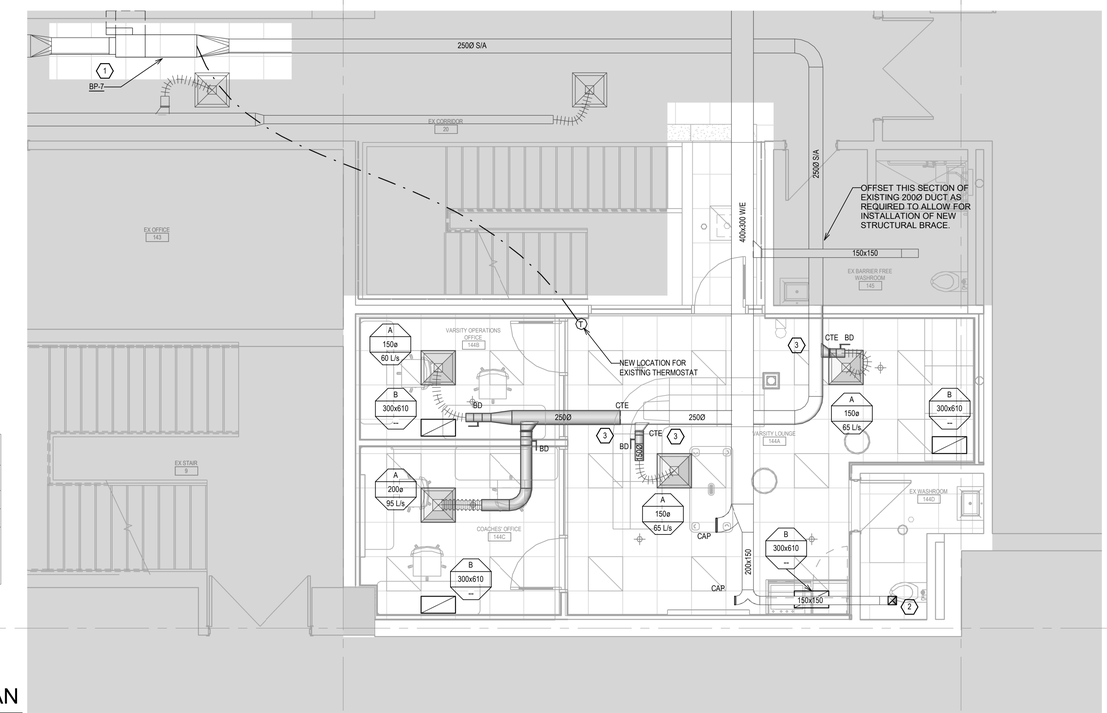
HVAC GENERAL NOTES:	
NOTE	DESCRIPTION
1.	DUCT ROUTING INDICATES DESIGN INTENT. CONFIRM EXACT ROUTING AND CO-ORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, ELECTRICAL AND STRUCTURE ON SITE. PROVIDE OFFSETS AND ADJUST ROUTING AS REQUIRED.
2.	CO-ORDINATE EXACT TIE-IN AND SHUT DOWN DATES WITH OWNER. PROVIDE A MINIMUM OF ONE WEEK WRITTEN NOTICE PRIOR TO ANY SERVICE INTERRUPTIONS OR SHUT DOWNS.
3.	DUCTWORK SIZES INDICATE CLEAR INSIDE DIMENSIONS.
4.	BALANCE ALL GRILLES AND DIFFUSERS IN PROJECT AREA TO VOLUMES INDICATED.
5.	REFER TO ARCHITECTURAL FOR PROJECT PHASING AND CONSTRUCTION SCHEDULE.

HVAC DEMOLITION SHEETNOTES:	
NOTE	DESCRIPTION
1	EXISTING DIFFUSER/GRILLE AND DUCTWORK TO BE REMOVED. CAP BACK TO APPROX LOCATION SHOWN ON PLAN.



1 M3-00 HVAC DEMO PLAN
1 : 50

HVAC SHEETNOTES:	
NOTE	DESCRIPTION
1	REBALANCE BP-7 TO MAX 283 L/s, MIN 71 L/S.
2	BALANCE EXISTING EXHAUST GRILLE TO 35 L/s.
3	CONNECT TO EXISTING DUCTWORK AT APPROXIMATELY THIS LOCATION. CONFIRM ON SITE.



2 M3-00 HVAC PLAN
1 : 50

REGISTERS, GRILLES AND DIFFUSERS SCHEDULE						
REF.	FUNCTION	CONFIGURATION	MANUFACTURER	MODEL NUMBER	MOUNTING TYPE	REMARKS
A	SUPPLY AIR	SQUARE CONE DIFFUSER	E.H. PRICE	600x600 /SCD /31 /3C / B12	T-BAR	MATCH EXISTING. REFER TO PLANS FOR NECK SIZE, COLOUR = APPLIANCE WHITE
B	RETURN	EGG CRATE	E.H. PRICE	600X300 /80 /TB /B12	T-BAR	NON-DUCTED, COLOUR = APPLIANCE WHITE

SYMBOL CLARIFICATION

C - DIFFUSER/GRILLE TYPE
600x600 - GRILLE SIZE
500 - AIR QUANTITY L/S

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Drawing History

Scale: As indicated
Checked By: ET

Project
GBC Athletics Renovation
George Brown College, Casa Loma Campus, 160 Kendral Ave, Toronto, ON, M5R 1M3

Drawing Title
HVAC PLANS

Project Number: 23183
Drawing Number: M3-00

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GENERAL POWER

- 15A, U-GROUND SINGLE RECEPTACLE
- 15A, U-GROUND DUPLEX RECEPTACLE
- USB 15A, U-GROUND DUPLEX USB RECEPTACLE. HUBBELL CAT. #USB15A
- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE
- 15A, U-GROUND SINGLE OR DUPLEX RECEPTACLE - MOUNTED ABOVE COUNTER
- 15A, U-GROUND SINGLE INSULATED/ISOLATED GROUND RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER
- 15A, U-GROUND DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER
- (5-20R) T-SLOT U-GROUND DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER
- 30A 120/208V/1Ø/30 AMP DRYER OUTLET
- 40A 120/208V/1Ø/40 AMP RANGE OUTLET
- 15A, U-GROUND SPLIT WIRED DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER
- 15A, U-GROUND HALF SWITCHED DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER (CONTROLLED BY SWITCH)
- 15A, U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER
- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER
- 15A, U-GROUND SINGLE RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND SINGLE OR DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
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- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND SINGLE RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND DUPLEX RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND SINGLE OR DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- (5-20R) T-SLOT U-GROUND DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND SPLIT WIRED DUPLEX RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE

LIGHTING

- A LINEAR FLUORESCENT LUMINAIRE, TYPE 'A' AS SPECIFIED. HATCHING DENOTES CONNECTED TO EMERGENCY/NIGHT LIGHTING CIRCUIT
- A CEILING MOUNTED LUMINAIRE, TYPE 'A' AS SPECIFIED
- A WALL MOUNTED LUMINAIRE, TYPE 'A' AS SPECIFIED
- FULLY RECESSED GREEN RUNNING MAN EDGE-LIT EXIT SIGN, SUPPLIED AND INSTALLED BY DIV. 26
- BEGHELLI, SURFACE CEILING/WALL EMERGENCY LIGHTING DOUBLE HEAD
- BEGHELLI, CEILING RECESSED MOUNTED EMERGENCY LIGHTING HEAD CAT.# RMR-TRR-WH-24VDC, 7W LED MR16 SUPPLIED & INSTALLED BY DIV. 26

EQUIPMENT CONNECTIONS AND CONTROLS

- DIRECT CONNECTION - 120 OR 208V AS SPECIFIED
- DIRECT CONNECTION - 347 OR 600V AS SPECIFIED
- DIRECT CONNECTION - 120 OR 208V C/W UNFUSED DISCONNECT SWITCH AS SPECIFIED
- DIRECT CONNECTION - 347 OR 600V C/W UNFUSED DISCONNECT SWITCH AS SPECIFIED
- DIRECT CONNECTION - 120 OR 208V C/W FUSED DISCONNECT SWITCH AS SPECIFIED
- DIRECT CONNECTION - 347 OR 600V C/W FUSED DISCONNECT SWITCH AS SPECIFIED
- C F W MODULAR FURNITURE WHIP CONNECTION
  'C' - DENOTES CEILING FED PAC POLE
  'F' - DENOTES FLOOR
  'W' - DENOTES WALL
- MOTOR CONNECTION AS SPECIFIED
- MOTOR CONNECTION C/W UNFUSED DISCONNECT SWITCH
- MOTOR CONNECTION C/W FUSED DISCONNECT SWITCH
- MOTOR CONNECTION C/W LOOSE STARTER
- MOTOR STARTER AS SPECIFIED
- UNFUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- H HAIR DRYER
- HD HAND DRYER
- C CONTACTOR - SIZE AND NUMBER OF POLES AS SPECIFIED
- R RELAY
- T THERMOSTAT PROVIDED AND WIRED BY ELECTRICAL
- T THERMOSTAT PROVIDED BY MECHANICAL AND WIRED BY ELECTRICAL
- CARBON MONOXIDE DETECTOR SUPPLIED AND INSTALLED BY MECHANICAL. ROUGH-IN BY ELECTRICAL
- MASTER CLOCK CONTROL PANEL
- CLOCK HANGER OUTLET C/W CLOCK
- CLOCK HANGER OUTLET ONLY
- POWER ACTIVATED DOOR EXIT BUTTON SUPPLIED BY DOOR HARDWARE SUPPLIER, WIRED BY ELECTRICAL
- RECESSED MOUNTED - CARBON MONOXIDE CONTROL PANEL
- SURFACE MOUNTED - CARBON MONOXIDE CONTROL PANEL
- SP RECESSED MOUNTED ELECTRICAL PANEL - 'SP' DENOTES PANEL DESIGNATION
- SP SURFACE MOUNTED ELECTRICAL PANEL - 'SP' DENOTES PANEL DESIGNATION

LIGHTING CONTROL

- $ $ $ $ ONE, TWO, THREE AND FOUR GANG SINGLE POLE TOGGLE SWITCHES
- 3 $ 3-WAY SWITCH
- 4 $ 4-WAY SWITCH
- K KEY OPERATED LIGHT SWITCH
- $ LEGRAND, WATTSTOPPER DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR, DIMMER, CAT# DW-311-W-U
- TC PROGRAMMABLE TIME CLOCK, TYPE 'A' AS SPECIFIED
- OS LEGRAND, WATTSTOPPER VOLTAGE DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR, CAT# LMDC-100 C/W POWER PACK.
- PE PHOTO ELECTRIC CONTROL

FIRE ALARM SYSTEM

- PULL STATION
- FLUSH MOUNTED BELL
- HS FLUSH MOUNTED HORN - 'HS' DENOTES HORN STROBE COMBINATION
- DOUBLE HORN - CEILING OR WALL MOUNTED
- SUITE ISOLATOR MODULE
- STROBE - WALL OR CEILING MOUNTED
- FIREMEN HANDSET
- FIRE ALARM SYSTEM SPEAKER SILENCE SWITCH
- AUTOMATIC COMBINATION FIXED TEMPERATURE/RATE OF RISE HEAT DETECTOR - WALL OR CEILING MOUNTED
- AUTOMATIC FIXED TEMPERATURE HEAT DETECTOR - WALL OR CEILING MOUNTED
- SMOKE DETECTOR - WALL OR CEILING MOUNTED
- DM DUCT TYPE SMOKE DETECTOR WITH REMOTE ANNUNCIATION
- SINGLE STATION TYPE SMOKE ALARM C/W RED INDICATION LIGHT - WALL OR CEILING MOUNTED
- SINGLE STATION TYPE SMOKE ALARM/CARBON MONOXIDE DETECTOR C/W RED INDICATION LIGHT - WALL OR CEILING MOUNTED
- CARBON MONOXIDE DETECTOR - WALL OR CEILING MOUNTED
- SPRINKLER SYSTEM FLOW OR PRESSURE SWITCH BY MECHANICAL AND WIRED BY ELECTRICAL. COORDINATE/CONFIRM EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS
- SPRINKLER SYSTEM OR STANDPIPE SUPERVISED VALVE BY MECHANICAL AND WIRED BY ELECTRICAL. COORDINATE/CONFIRM EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS
- SOLENOID VALVE BY MECHANICAL AND WIRED BY ELECTRICAL COORDINATE/CONFIRM EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS
- DH DOOR HOLDER
- D MOTORIZED DAMPER BY MECHANICAL AND WIRED BY ELECTRICAL COORDINATE/CONFIRM EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS
- FP RECESSED MOUNTED - FIRE ALARM CONTROL PANEL
- FP SURFACE MOUNTED - FIRE ALARM CONTROL PANEL
- FAA RECESSED MOUNTED - FIRE ALARM ANNUNCIATOR PANEL
- FAA SURFACE MOUNTED - FIRE ALARM ANNUNCIATOR PANEL
- FM RECESSED MOUNTED - CENTRAL MONITORING AND EVACUATION FACILITIES
- FM SURFACE MOUNTED - CENTRAL MONITORING AND EVACUATION FACILITIES
- END OF LINE RESISTOR
- REMOTE TROUBLE SIGNAL

POWER DISTRIBUTION

- POWER TRANSFORMER
- POWER TRANSFORMER C/W ELECTROSTATIC SHIELD
- CURRENT CONTROL TRANSFORMER
- INCOMING POWER INTERRUPTER SWITCH
- DISCONNECT SWITCH
- MOLDED CASE CIRCUIT BREAKER
- DRAW OUT AIR CIRCUIT BREAKER
- FIXED AIR CIRCUIT BREAKER
- FUSE
- INCOMING POWER INTERRUPTER SWITCH
- M KW/HR METER
- DM DIGITAL METERING SYSTEM
- INV EMERGENCY LIGHTING INVERTER
- UPS UNINTERRUPTABLE POWER SUPPLY

SECURITY AND ACCESS SYSTEMS

- CP SECURITY SYSTEM CONTROL PANEL
- K P KEY PAD
- CR CARD READER
- IR INFRA RED READER
- EB REQUEST TO EXIT BUTTON
- EM EGRESS MOTION DETECTOR
- DC DOOR CONTACT
- P C PATIO DOOR CONTACT
- WC WINDOW CONTACT
- OD OVERHEAD DOOR CONTACT
- P L POWER LOCK
- ES ELECTRIC STRIKE
- A A AUDIBLE ALARM
- MD MOTION DETECTOR
- GD GLASS BREAK DETECTOR
- AD WAVE ACTUATOR
- PT Z C CLOSED CIRCUIT CAMERA
  'B' - DENOTES BOX ENCLOSURE
  'E' - DENOTES ELEVATOR CORNER MOUNT
  'P' - DENOTES PEDESTAL MOUNT
  'PTZ' - DENOTES PAN TILT ZOOM
  'W' - WEDGE ENCLOSURE
- M SECURITY SYSTEM MONITOR
- ML MAGLOCK DEVICE
- S MAGLOCK RESET SWITCH
- KS KEY SWITCH
- CB CODE BLUE SPEAKER PHONE
- CB CODE BLUE INTEGRATED UNIT C/W ACCESSORIES, POLE OR PEDESTAL MOUNTED
- S ALARM SOUNDER
- PA PANIC ALARM

ELECTRIC HEATING

- BBH1 ELECTRIC BASEBOARD HEATER, TYPE 'BBH1' AS SPECIFIED
- DBH1 ARCHITECTURAL DRAFT BARRIER HEATER, TYPE 'DBH1' AS SPECIFIED
- KSH1 ELECTRIC KICKSPACE HEATER, TYPE 'KSH1' AS SPECIFIED
- DIH1 ELECTRIC DROP-IN HEATER, TYPE 'DIH1' AS SPECIFIED
- CUH1 CABINET UNIT HEATER, TYPE 'CUH1' AS SPECIFIED
- FFH1 RECESSED MOUNTED - ELECTRIC FORCE FLOW HEATER, TYPE 'FFH1' AS SPECIFIED
- FFH1 SURFACE MOUNTED - ELECTRIC FORCE FLOW HEATER, TYPE 'FFH1' AS SPECIFIED

MISCELLANEOUS

- E INDICATES EXISTING DEVICE TO REMAIN
- MV INDICATES EXISTING DEVICE TO BE MOVED
- RL INDICATES EXISTING DEVICE IN RELOCATED POSITION
- D INDICATES EXISTING DEVICE TO BE DEMOLISHED
- INDICATES CONDUIT
- 1 (TYP.) ELECTRICAL DRAWING NOTES

DWG NO.	DRAWING NAME
E0-00	ELECTRICAL SYMBOL LEGEND, DRAWING LIST & GENERAL NOTES
E1-00	LIGHTING PLANS
E2-00	POWER & SYSTEMS PLANS
E3-00	ELECTRICAL SCHEDULE AND DETAILS

COMMUNICATIONS

- WALL MOUNTED COMBINATION MULTI-FUNCTION COMMUNICATION OUTLET
- WALL MOUNTED COMBINATION MULTI-FUNCTION COMMUNICATION OUTLET - MOUNTED ABOVE COUNTER
- AV AUDIO VISUAL OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER
- AV AUDIO VISUAL OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- TELEPHONE OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER
- TELEPHONE OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- TELEPHONE OUTLET - FLUSH FLOOR MOUNTED
- TERMINAL POINT OF TELEPHONE ZONE CIRCUIT ON CEILING SLAB C/W 2" (53mm) CONDUIT BACK TO TELEPHONE BACKBOARD
- COMMUNICATION LINE TERMINAL BOX
- DATA OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER
- DATA OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- DATA OUTLET - FLUSH FLOOR MOUNTED
- COMBINATION VOICE/DATA OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER
- SP SP FLUSH MOUNTED AUXILIARY SOUND SYSTEM SPEAKER - WALL MOUNTED OR CEILING MOUNTED

BRANCH CIRCUITING LEGEND

2EP1 - 3
- '3' - DENOTES CIRCUIT NUMBER
- 'P1' - DENOTES LOCATION OF PANEL (P1 LEVEL)
- 'E' - DENOTES EMERGENCY PANEL
- '2' - DENOTES 120/208V OR
- '6' - DENOTES 347/600V

GENERAL NOTES:

1. THE ELECTRICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC. THE ELECTRICAL INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES SUCH THAT INTERFERENCES BETWEEN THE ELECTRICAL INSTALLATION AND ARCHITECTURAL, STRUCTURE, MECHANICAL, PLUMBING, FIRE PROTECTION AND EQUIPMENT INSTALLATION IS AVOIDED.
2. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ROOM AND AREA FINISHED, CEILING PLANS, DOOR SWINGS, FIRE RATED PARTITIONS, CABINET AND CASE WORK AND BUILT-IN DETAILS.
3. ALL WIRING TO BE SIZE #12 AWG UNLESS OTHERWISE NOTED. MINIMUM CONDUIT SIZE SHALL BE 21mm UNLESS NOTED OTHERWISE.
4. CIRCUIT NUMBERS SHOWN ARE FOR GROUPING PURPOSES ONLY. ELECTRICAL CONTRACTOR TO ENSURE THAT CIRCUITS INSTALLED ARE FULLY BALANCED.
5. ALL EXISTING FIRE ALARM DEVICES INCLUDING SPEAKERS, STROBES, BELL/ HORN, PULL STATION, DUCT SMOKE DETECTORS ETC. TO REMAIN. WHERE REQUIRED, REMOVE DEVICES AND COIL AT HIGH LEVEL TO ACCOMMODATE DEMOLITION SCOPE OF WORK. DEVICES SHALL BE RELOCATED TO SUIT NEW CEILINGS AND NEW PARTITION LAYOUT.
6. CARRY THE COST OF TO RE-VERIFY THE FIRE ALARM SYSTEM. IF THERE IS A SPECIFIED FIRE ALARM BASE BUILDING CONTRACTOR. CARRY THE COST TO HAVE THE BASE BUILDING CONTRACTOR PERFORM THE WORK.
7. SUPPLY AND INSTALL OUTLET BOX AND 3/4" EMT CONDUIT C/W PULL STRING AND BUSHING UP TO ACCESSIBLE CEILING SPACE FOR ALL WALL MOUNTED VOICE, DATA & AUDIO VISUAL OUTLETS.
8. PRIOR TO ANY WORK FOR FLOOR BOX, POKE THRU, UNDERFLOOR, INFLOOR OR INSLAB CONDUIT, ALLOW FOR FLOOR X-RAYS AND COORDINATION WITH THE LANDLORD. OBTAIN WRITTEN APPROVAL AS REQUIRED.
9. LABEL ALL ELECTRICAL OUTLETS AT COMPLETION OF PROJECT WITH CIRCUIT NUMBERS.
10. ALL NEW / EXISTING / RELOCATED LIGHTING FIXTURES IN SCOPE OF WORK SHALL BE SUPPORTED INDEPENDENT OF THE CEILING SYSTEM TO APPROVAL OF THE CANADIAN ELECTRICAL CODE.
11. CONTRACTOR UTILIZE EXISTING LIGHTING & POWER CIRCUITS IN RENOVATED AREA AND SPARE CIRCUIT IN EXISTING PANEL BOARDS. LIGHTING AND POWER CIRCUIT SHALL NOT BE LOADED MORE THAN 80% OF IT'S RATED LOAD.

NOTE:
NOT ALL SYMBOLS SHOWN ON THIS LEGEND ARE NECESSARILY USED ON THIS PROJECT.

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3	ISSUED FOR PRE-TENDER REVIEW	2023-09-08
2	ISSUED FOR PROGRESS	2023-09-01
1	ISSUED FOR CLIENT REVIEW 60%	2023-08-18

Drawing History

Scale 1 : 1

Checked By DN

Project

GBC Athletics Renovation

George Brown College, Casa Loma Campus, 160 Kendral Ave, Toronto, ON, M5R 1M3

Drawing Title

ELECTRICAL SYMBOL LEGEND, DRAWING LIST & GENERAL NOTES

Project Number 23183

Drawing Number E0-00

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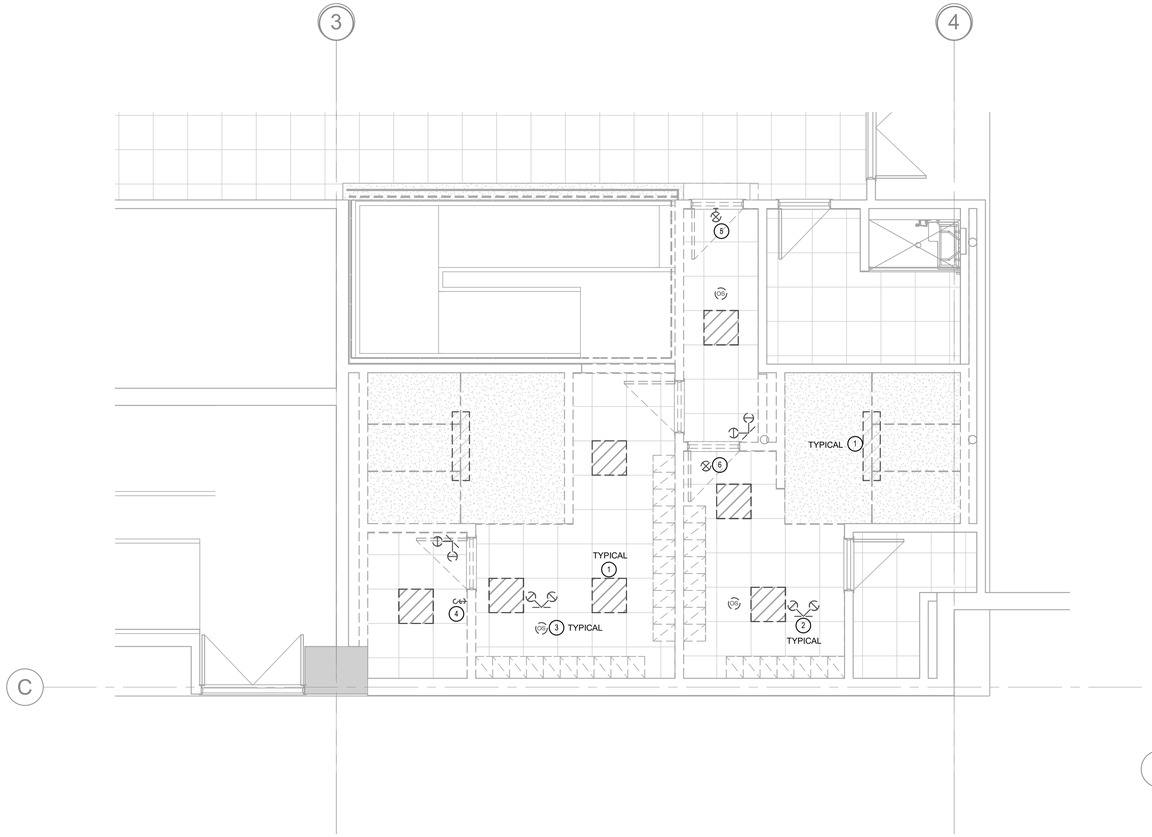


1 E1-00 LIGHTING DEMO PLAN

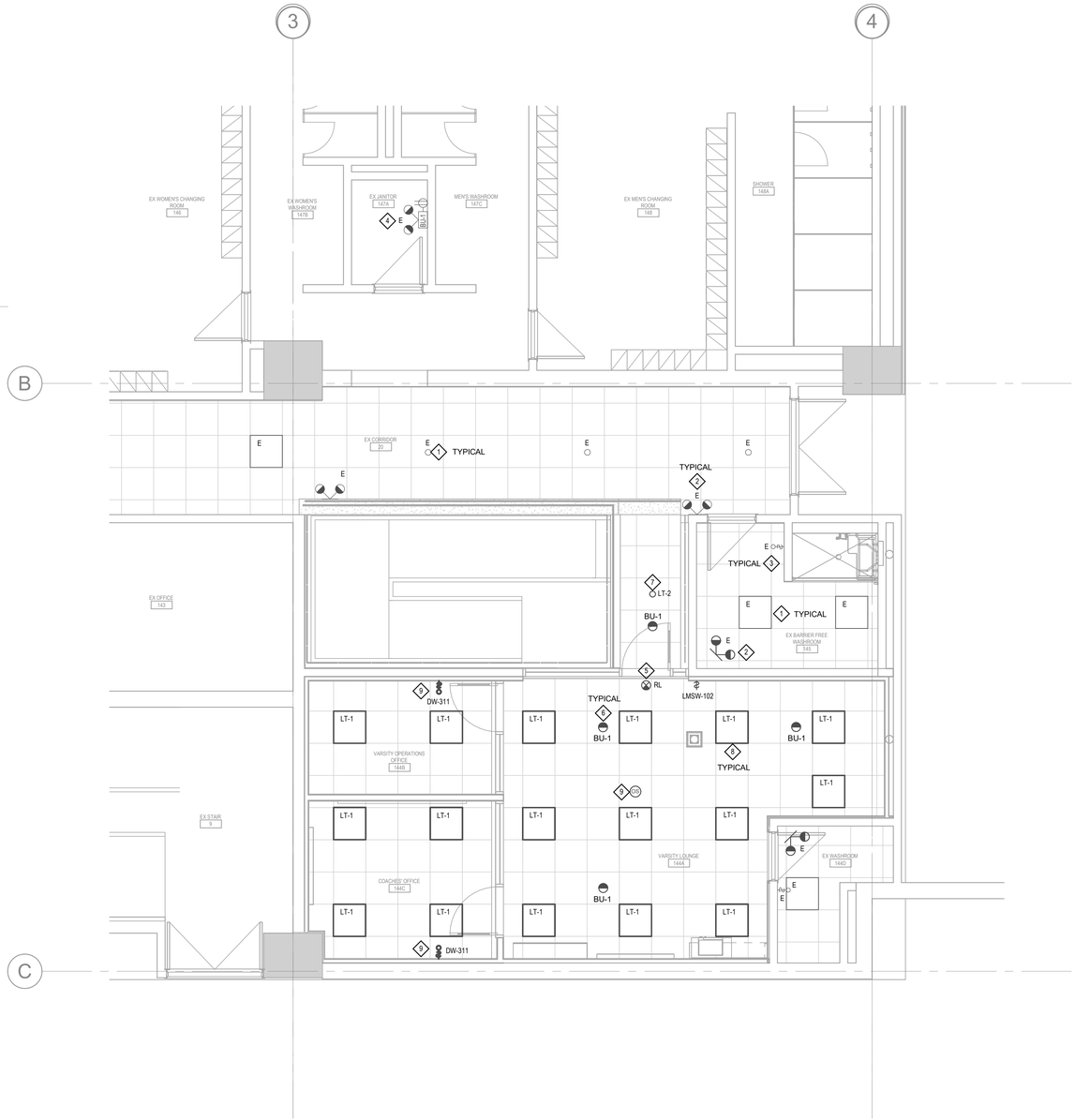
1 : 50

LIGHTING DEMOLITION KEY NOTES:	
1	EXISTING LIGHTING FIXTURE TO BE DISCONNECTED & RETURNED TO OWNERS.
2	EXISTING CEILING MOUNTED EMERGENCY REMOTE HEADS TO BE DISCONNECTED AND DEMOLISHED.
3	EXISTING CEILING MOUNTED OCCUPANCY SENSOR TO BE DISCONNECTED AND DEMOLISHED.
4	EXISTING WALL MOUNTED OCCUPANCY SENSOR TO BE DISCONNECTED AND DEMOLISHED.
5	EXISTING WALL MOUNTED EXIT SIGN TO BE DISCONNECTED AND DEMOLISHED.
6	EXISTING CEILING MOUNTED EXIT SIGN TO BE RELOCATED. EXTEND WIRING & CONDUIT TO SUIT.

LIGHTING CONSTRUCTION KEY NOTES:	
1	EXISTING LIGHTING FIXTURE TO REMAIN.
2	EXISTING WALL/CEILING MOUNTED EMERGENCY REMOTE HEADS TO REMAIN.
3	EXISTING WALL MOUNTED OCCUPANCY SENSOR TO REMAIN.
4	EXISTING EMERGENCY BATTERY UNIT TO REMAIN.
5	RELOCATED EXIT SIGN. EXTEND WIRING & CONDUIT TO SUIT.
6	CONNECT NEW CEILING MOUNTED EMREGENCY REMOTE HEAD TO EXISTING BATTERY UNIT.
7	CONNECT NEW LIGHTING FIXTURE TO EXISTING CORRIDOR LIGHTING CIRCUIT AND CONTROLS.
8	CONNECT NEW LIGHTING FIXTURE TO EXISTING LIGHTING CIRCUIT WITHIN RENOVATION AREA.
9	NEW WALL/CEILING MOUNTED OCCUPANCY SENSOR FOR CONTROLLING LIGHTING FIXTURES WITHIN THE ROOM.

LUMINAIRE SCHEDULE

TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL	VOLTAGE	LOAD	COLOUR TEMP.	CRI	LAMP TYPE	LUMENS	DIMMING TYPE	REMARKS
LT-1	2' x 2' RECESSED LED BASKET	DAY-BRITE CFI BY SIGNIFY	2EVG30840-2-RS-120-DIM	120 V	25	3500K	80	LED	3000	0-10V	
LT-2	LED TROFFER DISH CIRCULAR RECESSED	VISIONEERING	LTDCR2X2-LED-840K-022L-UNV	120 V	42	4000K	80	LED	2600	0-10V	



2 LIGHTING PLAN

1 : 50

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Scale: As indicated

Checked By: DN

Project

GBC Athletics Renovation

George Brown College, Casa Loma Campus, 160 Kendral Ave, Toronto, ON, M5R 1M3

Drawing Title

LIGHTING PLANS

Project Number: 23183

Drawing Number: E1-00

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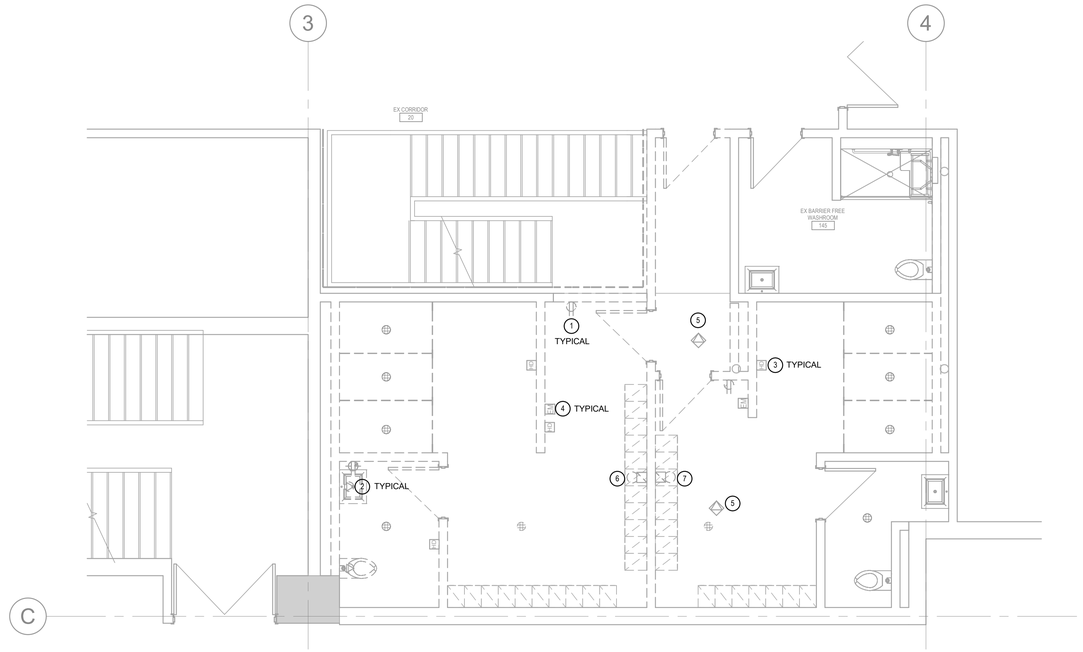
POWER & SYSTEMS DEMOLITION KEY NOTES:

1. EXISTING POWER OUTLET TO BE DISCONNECTED & DEMOLISHED.
2. EXISTING POWER CONNECTIONS FOR AUTO FLUSH/ FAUCET TO BE DISCONNECTED AND DEMOLISHED.
3. EXISTING HAND DRYER TO BE DISCONNECTED AND RETURNED TO OWNERS.
4. EXISTING EMERGENCY CALL SYSTEM TO BE DISCONNECTED AND RETURNED TO OWNERS.
5. EXISTING WAP (WIRELESS ACCESS POINT) DEVICE TO BE REMOVED AND RELOCATED TO SUIT NEW CEILING.
6. EXISTING FIRE ALARM BELL TO BE BE DISCONNECTED & DEMOLISHED.
7. EXISTING FIRE ALARM BELL TO BE RELOCATED TO SUIT NEW PARTITION.

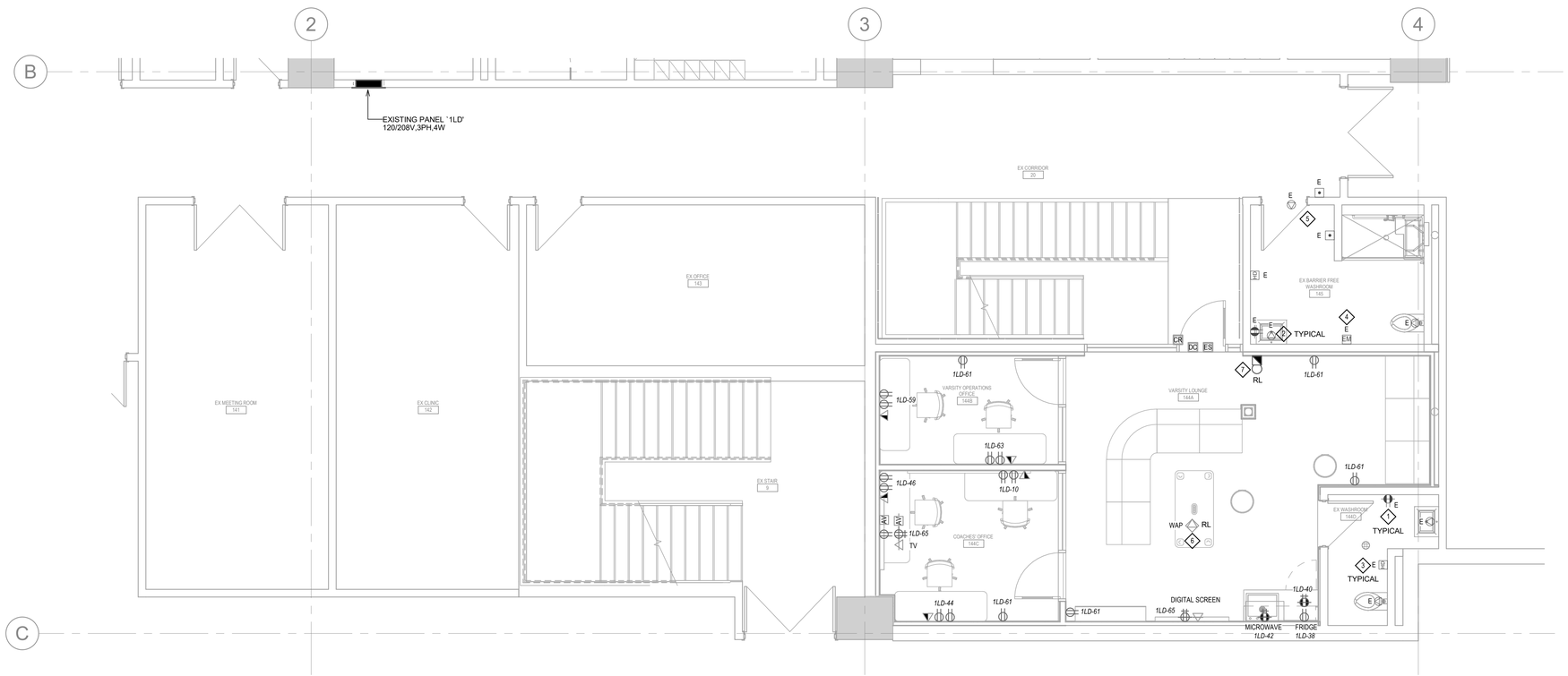
POWER & SYSTEMS CONSTRUCTION KEY NOTES:

1. EXISTING POWER OUTLET TO REMAIN.
2. EXISTING POWER CONNECTIONS FOR AUTO FLUSH/ FAUCET TO REMAIN.
3. EXISTING HAND DRYER TO BE REMAIN.
4. EXISTING EMERGENCY CALL SYSTEM TO BE REMAIN.
5. EXISTING PUSH BUTTONS & DOOR OPENER TO REMAIN.
6. RELOCATED WAP (WIRELESS ACCESS POINT) DEVICE TO SUIT NEW CEILING. EXTEND CABLE & CONDUIT TO SUIT.
7. RELOCATED FIRE ALARM BELL TO SUIT NEW PARTITION. EXTEND WIRING & CONDUIT TO SUIT.



1 E2-00 POWER & SYSTEMS DEMO PLAN

1 : 50



2 E2-00 POWER & SYSTEMS

1 : 50

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GBC Athletics Renovation

George Brown College, Casa Loma Campus, 160 Kendral Ave, Toronto, ON, M5R 1M3

Drawing Title

POWER & SYSTEMS PLANS

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Drawing Number: E2-00

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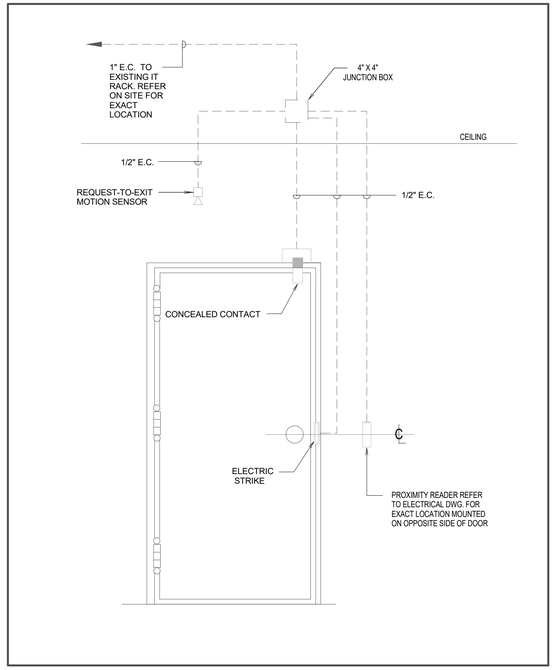
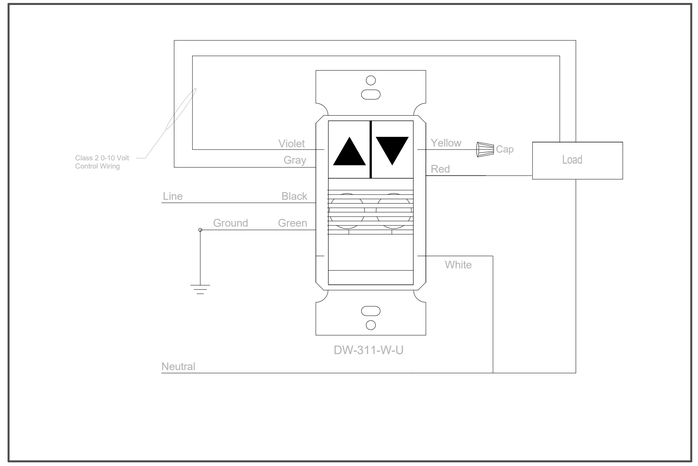


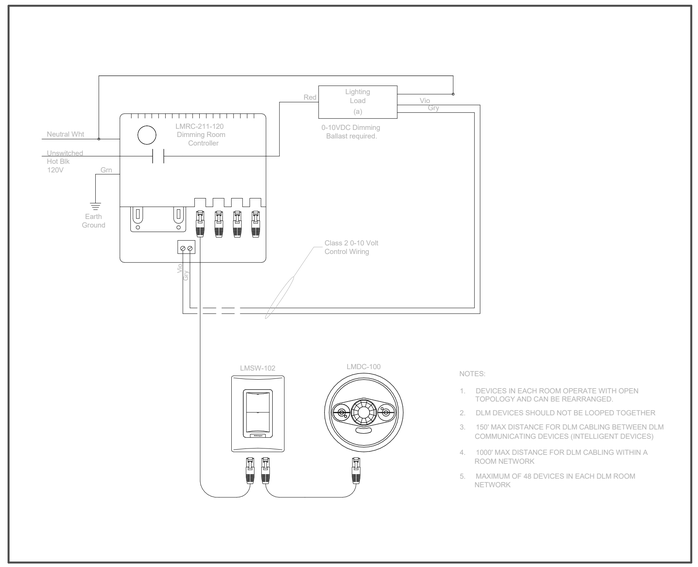
4 CARD ACCESS CONTROL SYSTEM ROUGH-IN

1 : 1



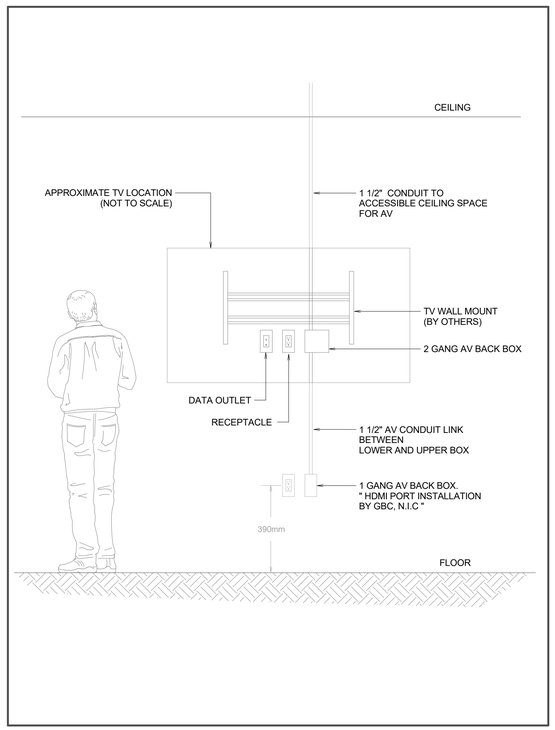
1 LIGHTING CONTROL DETAIL (TYPICAL FOR SMALL OFFICES)

1 : 1



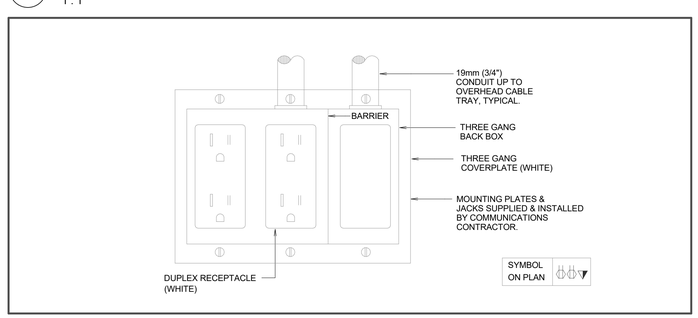
2 LIGHTING CONTROL DETAIL (TYPICAL FOR LARGE SPACES)

1 : 1



5 TYPICAL TV ELEVATION

1 : 1



3 THREE GANG POWER & COMM. WALL OUTLET DETAIL

1 : 1

Branch Panel: 1LD

Location: EX CORRIDOR 20
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
No. Circuits 72

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 225
MCB Rating: 0

Notes: EXISTING PANEL

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING SERVICE	--	1	--	--					1	--	EXISTING SERVICE	2
3	EXISTING SERVICE	--	1			--	--			1	--	EXISTING SERVICE	4
5	EXISTING SERVICE	--	1					--	--	1	--	EXISTING SERVICE	6
7	EXISTING SERVICE	--	1	--	--					1	--	EXISTING SERVICE	8
9	EXISTING SERVICE	--	1			--	480			1	15	RECEPTACLES	10
11	EXISTING SERVICE	--	1					--	--	1	--	EXISTING SERVICE	12
13	EXISTING SERVICE	--	1	--	--					1	--	EXISTING SERVICE	14
15	EXISTING SERVICE	--	1			--	--			1	--	EXISTING SERVICE	16
17	EXISTING SERVICE	--	1					--	--	1	--	EXISTING SERVICE	18
19	EXISTING SERVICE	--	1	--	--					1	--	EXISTING SERVICE	20
21	EXISTING SERVICE	--	1			--	--			1	--	EXISTING SERVICE	22
23	EXISTING SERVICE	--	1					--	--	1	--	EXISTING SERVICE	24
25	EXISTING SERVICE	--	1	--	--					1	--	EXISTING SERVICE	26
27	EXISTING SERVICE	--	1			--	--			1	--	EXISTING SERVICE	28
29	EXISTING SERVICE	--	1					--	--	1	--	EXISTING SERVICE	30
31	EXISTING SERVICE	--	1	--	--					1	--	EXISTING SERVICE	32
33	EXISTING SERVICE	--	1			--	0			1	15	EXISTING SERVICE	34
35	EXISTING SERVICE	--	1					--	0	1	15	EXISTING SERVICE	36
37	EXISTING SERVICE	--	1	--	500					1	15	FRIDGE	38
39	EXISTING SERVICE	--	1			--	500			1	20	GFI T-SLOT RECEPTACLE	40
41	EXISTING SERVICE	--	1					--	1000	1	20	MICROWAVE	42
43	EXISTING SERVICE	--	1	--	480					1	15	RECEPTACLES	44
45	EXISTING SERVICE	--	1			--	480			1	15	RECEPTACLES	46
47	EXISTING SERVICE	--	1					--	--	1	--	EXISTING SERVICE	48
49	EXISTING SERVICE	--	1	--	--					1	--	EXISTING SERVICE	50
51	EXISTING SERVICE	--	1			--	--			1	--	EXISTING SERVICE	52
53	EXISTING SERVICE	--	1					--	--	1	--	EXISTING SERVICE	54
55	EXISTING SERVICE	--	1	--	--					1	--	EXISTING SERVICE	56
57	EXISTING SERVICE	--	1			--	--			1	--	EXISTING SERVICE	58
59	RECEPTACLES	15	1					480	--	1	--	EXISTING SERVICE	60
61	RECEPTACLES	15	1	1200	--					1	--	EXISTING SERVICE	62
63	RECEPTACLES	15	1			240	--			1	--	EXISTING SERVICE	64
65	RECEPTACLES	20	1					720	--	1	--	EXISTING SERVICE	66
67	EXISTING SERVICE	--	1	--	--					1	--	EXISTING SERVICE	68
69	EXISTING SERVICE	--	1			--	--			1	--	EXISTING SERVICE	70
71	EXISTING SERVICE	--	1					--	--	1	--	EXISTING SERVICE	72
			Total Load:	2180 VA		1700 VA		2200 VA					
			Total Amps:	18.8		14.2		18.9					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC	6080 VA	75.00%	4560 VA		
				Total Conn. Load:	6080 VA
				Total Est. Demand:	4560 VA
				Total Conn. Current:	16.9
				Total Est. Demand Current:	12.7

Notes:
PROVIDE NEW TANDEM CIRCUIT BREAKERS FOR EXISTING & NEW CONNECTIONS IF REQUIRED.

gec architecture

Project Team:

Prime Consultant
GEC Architecture

Structural Consultant
RJC Engineers

Mechanical Consultant
MCW Consultants Ltd.

Electrical Consultant
MCW Consultants Ltd.

Civil Consultant

Landscape Consultant

Consultant Other

Client
GEORGE BROWN COLLEGE

Seal & Permit

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NO.	ISSUED FOR	DATE
5	ISSUED FOR CONSTRUCTION	2023-11-21
4	ISSUED FOR PERMIT & TENDER	2023-09-20
3	ISSUED FOR PRE-TENDER REVIEW	2023-09-08
2	ISSUED FOR PROGRESS	2023-09-01
1	ISSUED FOR CLIENT REVIEW 60%	2023-08-18

Drawing History

Scale 1 : 1

Checked By DN

Project
GBC Athletics Renovation
George Brown College, Casa Loma Campus, 160 Kendral Ave. Toronto, ON, M5R 1M3

Drawing Title
ELECTRICAL SCHEDULE AND DETAILS

Project Number 23183

Drawing Number E3-00

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