


gec
architecture



PROJECT
NORTH

1.0 INTRODUCTION

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 LOCKER 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 LOCKER OCCUPANTS). AN EXISTING BARRIER FREE CHANGE ROOM AND WASHROOM IS OUTSIDE OF THE PROJECT SCOPE AND WILL NOT BE IMPACTED BY THE WORK.

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.

(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

(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

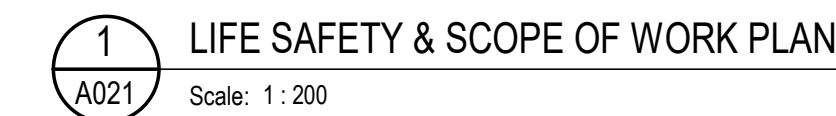
3.4.2.4 TRAVEL DISTANCE

(ii) THAT IS NOT REQUIRED TO HAVE A FIRE-RESISTANCE RATING, IN A FLOOR AREA THAT IS SPRINKLERED, AND

(ii) A CORRIDOR USED BY THE PUBLIC THAT IS SEPARATED FROM THE REMAINDER OF THE FL 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.



Scale: 1 : 200

7.0 OCCUPANT LOAD

THE PROPOSED OCCUPANTS ARE NO MORE THAN 23.

32.7 sqm / 1.85 sqm per person = 18 persons
7.8 sqm / 9.3 sqm per person = 1 person (2 persons actual)
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.

11.08	Existing Building Classification:	Change in Major Occupancy: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (no change of major occupancy)	11.2.1.1.																									
		Construction Index: <u> n/a </u> Hazard Index: <u> n/a </u> Importance Category : <input type="checkbox"/> Low <input checked="" type="checkbox"/> Normal <input type="checkbox"/> High <input type="checkbox"/> Post-disaster	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:	<input checked="" type="checkbox"/> Basic Renovation <input type="checkbox"/> Extensive Renovation	11.3.3.1. 11.3.3.2.																									
11.10	Occupant Load	<table><tr><td><u>Floor Level/Area</u></td><td><u>Occupant Type</u></td><td><u>Based On</u></td><td><u>Occupant Load (Persons)</u></td></tr><tr><td><u>Level1</u></td><td><u>No Change</u></td><td><u>No change</u></td><td><u>No change</u></td></tr><tr><td>_____</td><td>_____</td><td>_____</td><td><u>0</u></td></tr><tr><td>_____</td><td>_____</td><td>_____</td><td><u>0</u></td></tr><tr><td>_____</td><td>_____</td><td>_____</td><td><u>0</u></td></tr></table> <p><i>Insert additional lines as needed</i></p>	<u>Floor Level/Area</u>	<u>Occupant Type</u>	<u>Based On</u>	<u>Occupant Load (Persons)</u>	<u>Level1</u>	<u>No Change</u>	<u>No change</u>	<u>No change</u>	_____	_____	_____	<u>0</u>	_____	_____	_____	<u>0</u>	_____	_____	_____	<u>0</u>	3.1.17.					
<u>Floor Level/Area</u>	<u>Occupant Type</u>	<u>Based On</u>	<u>Occupant Load (Persons)</u>																									
<u>Level1</u>	<u>No Change</u>	<u>No change</u>	<u>No change</u>																									
_____	_____	_____	<u>0</u>																									
_____	_____	_____	<u>0</u>																									
_____	_____	_____	<u>0</u>																									
11.11	Plumbing Fixture Requirements	Ratio: <u> M/F = 1/1 Except as otherwise noted </u> <table><tr><td><u>Floor Level/Area</u></td><td><u>Occupant Load</u></td><td><u>IBC Reference</u></td><td><u>Fixtures Required</u></td><td><u>Fixtures Provided</u></td></tr><tr><td><u>Level1</u></td><td><u>No change</u></td><td>_____</td><td><u>No change</u></td><td><u>One water closet & one sink are removed</u></td></tr><tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr></table> <p><i>Insert additional lines as needed</i></p>	<u>Floor Level/Area</u>	<u>Occupant Load</u>	<u>IBC Reference</u>	<u>Fixtures Required</u>	<u>Fixtures Provided</u>	<u>Level1</u>	<u>No change</u>	_____	<u>No change</u>	<u>One water closet & one sink are removed</u>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	3.7.4.3
<u>Floor Level/Area</u>	<u>Occupant Load</u>	<u>IBC Reference</u>	<u>Fixtures Required</u>	<u>Fixtures Provided</u>																								
<u>Level1</u>	<u>No change</u>	_____	<u>No change</u>	<u>One water closet & one sink are removed</u>																								
_____	_____	_____	_____	_____																								
_____	_____	_____	_____	_____																								
_____	_____	_____	_____	_____																								
11.12	Barrier-free Design:	<input checked="" type="checkbox"/> Yes <u>The renovated space comply with barrier-free requirement.</u> <input type="checkbox"/> No <u>The existing washroom is to remain as it is.</u>	11.3.3.2 (2)																									
11.13	Reduction in Performance Level:	Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage-systems: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Extension of combustible construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> 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:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes _____ Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <u> (Describe) </u> Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <u> (Describe) </u> Change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <u> (Describe) </u> Plumbing: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <u>1 water close & 1 lavatory are removed. Change an existing men's single washroom to gender neutral washroom</u> Sewage systems: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <u> (Describe) </u> Extension of combustible construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <u> (Describe) </u>	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:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <u>(list numbers and describe)</u> _____ <u>(list numbers and describe)</u> _____ <u>(list numbers and describe)</u> _____	11.5.1.
11.16	Notes:	_____ _____ _____ _____ _____	11.5.1.

Insert additional lines as needed



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
NO.	ISSUED FOR	DATE
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		Drawing Number
6010		A021

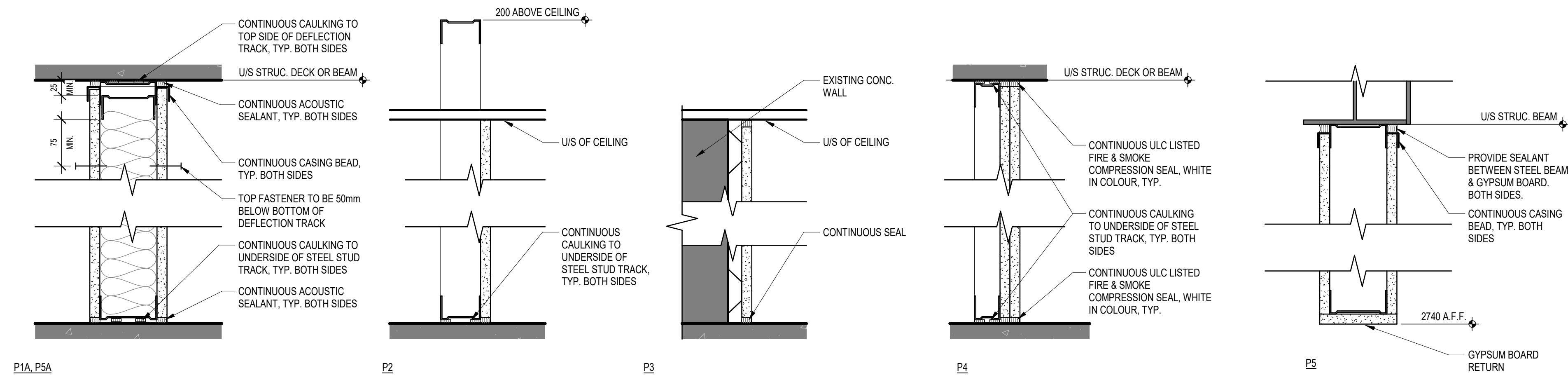
ABBREVIATIONS

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
ONC	ONTARIO BUILDING CODE
O.C.	ON CENTRE
O.H.	OVERHEAD
P.LAM	PLASTIC LAMINATE
REQD.	REQUIRED
RM.	ROOM
SIM.	SIMILAR
SPEC.	SPECIFICATION
SQ.	SQUARE
S.S.	STAINLESS STEEL
STRUCT.	STRUCTURAL
T.G.	TEMPERED GLASS
T.O.F.	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
	PARTITION ASSEMBLY TYPE
	INTERIOR GLAZING TYPE
	CEILING REFERENCE
	CEILING TYPE
	2440 - CEILING HEIGHT A.F.F. U.N.O.
	ROOM NAME & NUMBER
	WALL SECTION OR SECTION DETAIL
	1 - SECTION NUMBER
	ELEVATION SYMBOL
	1 - DETAIL NUMBER
	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

PARTITION HEAD & SILL DETAILS



CONSTRUCTION NOTES

- DRAWINGS ARE NOT TO BE SCALED
- ALL DIMENSIONS ARE TO BE VERIFIED ON SITE.
- BRING ALL OMISSIONS AND DISCREPANCIES, INCLUDING DIMENSIONS, TO THE ATTENTION OF THE CONSULTANT PRIOR TO COMMENCEMENT OF ANY WORK.
- PROVIDE 19.1mm FIRE RATED PLYWOOD BACKING FOR TELEPHONES AND SURFACE MOUNTED ELECTRICAL PANELS UNLESS OTHERWISE NOTED.
- FULLY COORDINATE ALL ADDITIONAL SUPPORT REQUIRED FOR ANCHORAGE OF MECHANICAL EQUIPMENT OR DUCTS AND ELECTRICAL FIXTURES.
- 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.
- 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.
- OUTSIDE EDGE OF DOOR AND GLAZING FRAMES TO BE LOCATED 150mm AWAY FROM ADJACENT WALLS UNLESS OTHERWISE NOTED.
- MAINTAIN CONTINUITY OF ALL FIRE SEPARATIONS AND PENETRATIONS WITH APPROVED U.L.C. LISTED FIRE STOPPING SYSTEMS AND FIRE SEALANTS BOTH SIDES OF PARTITIONS.
- MAINTAIN CONTINUITY OF ALL ACOUSTIC SEPARATIONS AND PENETRATIONS WITH ACOUSTIC SEALANT BOTH SIDES OF PARTITIONS.
- ISOLATE ALL MECHANICAL PIPES DUCTS AND EQUIPMENT FROM INTERIOR PARTITIONS TO AVOID ACOUSTIC NOISE TRANSFER.
- PROVIDE SOLID BLOCKING IN GYPSUM BOARD PARTITIONS FOR ATTACHMENT OF EQUIPMENT, FIXTURES, HANDRAILS, LADDERS etc.

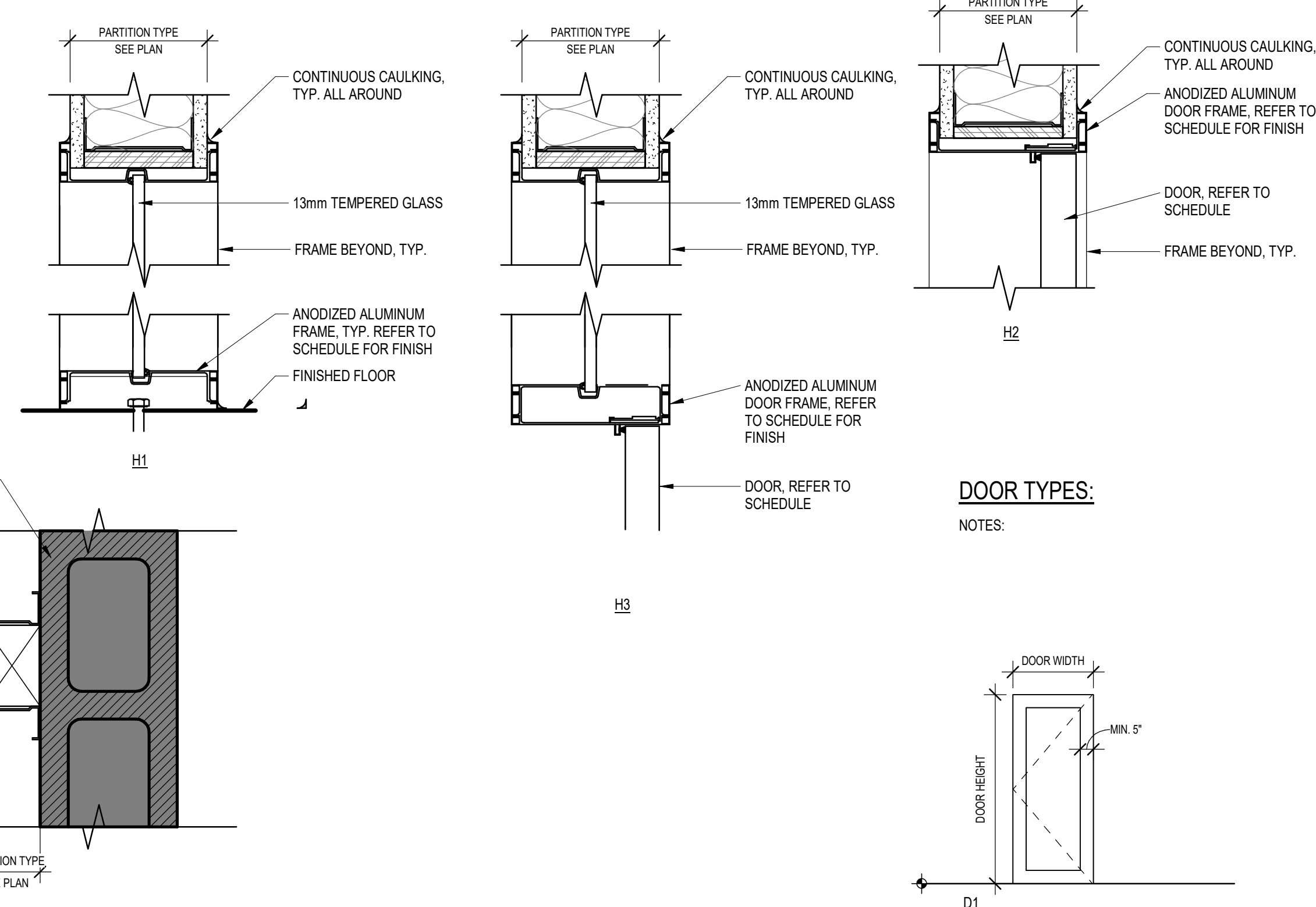
PARTITION ASSEMBLY NOTES:

- 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.
- 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.
- 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.
- 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 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.
- 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.
- 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 UNDERWRITERS 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.
- 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.
- REFER TO STRUCTURAL DOCUMENTS FOR CONCRETE BLOCK PARTITION REINFORCING, CORE FILLS, LINTELS AND BOND BEAMS.
- WHERE GYPSUM BOARD MEETS ADJACENT MATERIALS, PROVIDE CONTINUOUS SEALED JOINT PERIMETER.
- AT TUBS AND SHOWERS, MAINTAIN CONTINUITY OF FIRE RATED PARTITION ASSEMBLIES AND ADD 13mm MOISTURE RESISTANT GYPSUM BOARD.
- 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.
- ALL PENETRATIONS THROUGH PARTITIONS REQUIRED TO BE CONSTRUCTED AS AN ACOUSTIC SEPARATION SHALL BE SEALED WITH ACOUSTIC SEALANT BOTH SIDES.

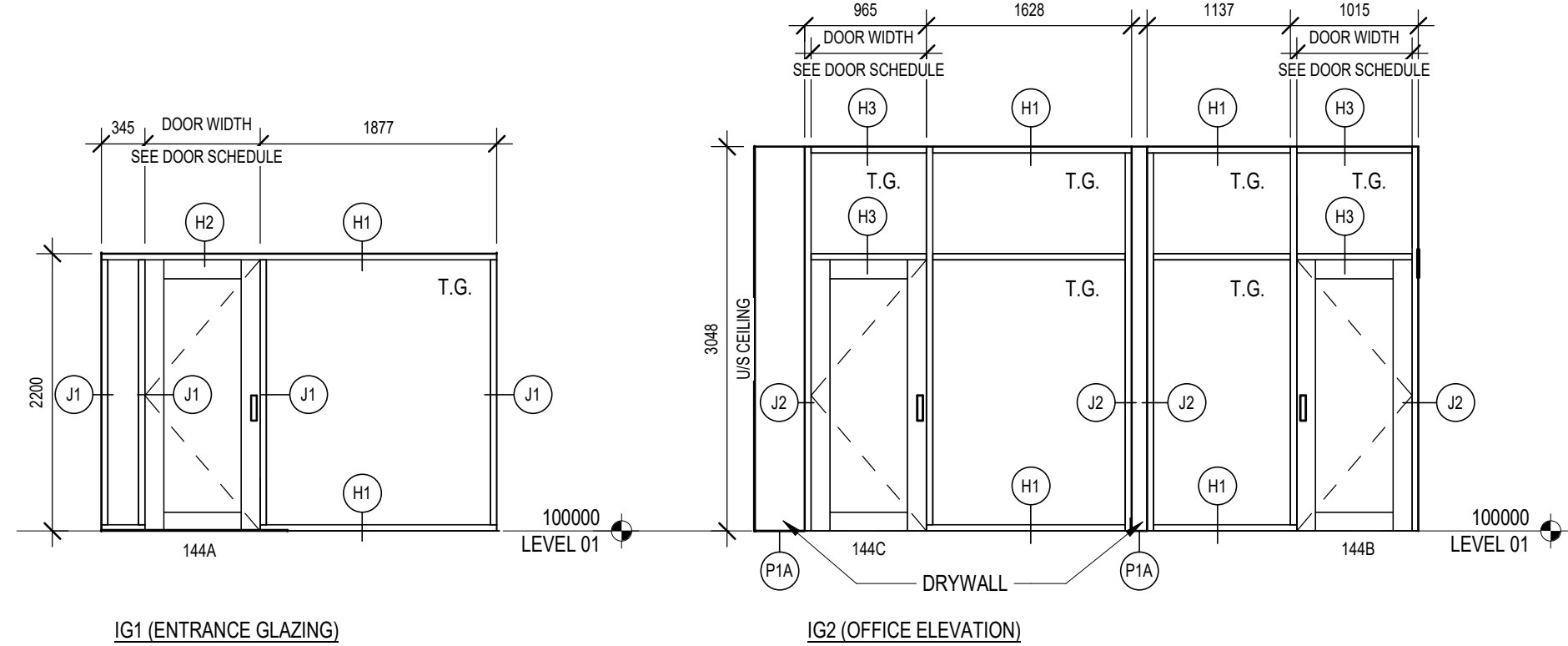
DOOR SCHEDULE STAGE 2

DOOR NUMBER	ROOM NAME	WIDTH	HEIGHT	DOOR				FRAME			DETAIL	HARDWARE	FIRE RATING	COMMENTS
				TYPE	MATERIAL	FINISH	GLAZING	TYPE	MATERIAL	FINISH				
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	

HEADER & JAMB DETAILS



GLAZING TYPES:



HARDWARE SCHEDULE:

HARDWARE MANUFACTURERS:

- SARGENT - SARG
- MEDECO - MEDE
- HES - HES
- SECURITY LOCKSMITH & DESIGN - SLD
- RUTH - RUTH
- KROM - KROM
- JOHNSON CONTROLS, INC - JCI

GROUP 01

LOUNGE

- 915MM X 2150MM X 44MM (FRxxMIN) xxFRxxDR
DR # 144A
- | | | | |
|---------------------------|------------------|------|-----|
| 1 EA MORTISE LOCKSET | 8204LNP | SARG | 26D |
| 1 EA CYLINDER | 10H0200626 | MEDE | |
| 1 EA DOOR CLOSER | 911D4689 | KROM | |
| 1 EA DOOR CLOSER STOP ARM | A911CSA689 | KROM | |
| 1 EA ELECTRIC STRIKE | F2164-12/24V-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) xxFRxxDR
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) xxFRxxDR
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)



Project Team:

Prime Consultant

GEC ARCHITECTURE

Structural Engineer

RJC Engineers

Mechanical Consultant

MCW Consultants Ltd.

Electrical Consultant

MCW Consultants Ltd.

Civil Consultant

Landscape Consultant

Consultant Other

Client



Seal & Permit



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
NO.	ISSUED FOR	DATE

Drawing History	Scale	As indicated	Checked By	Checker
-----------------	-------	--------------	------------	---------

Project

GBC ATHLETICS RENOVATION

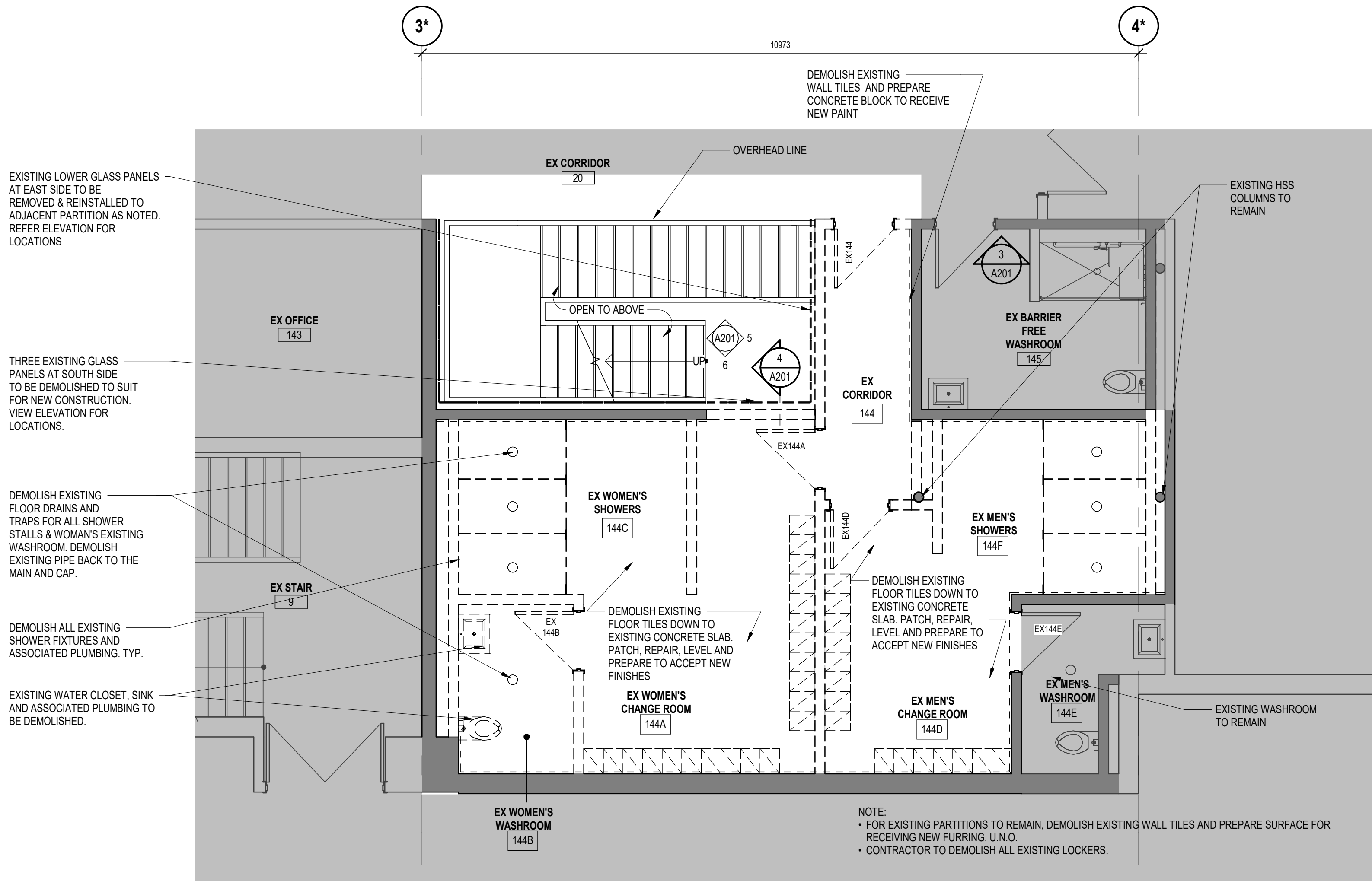
George Brown College, Casa Loma Campus, 160 Kendal Ave, Toronto, ON, M5R 1M3

Drawing Title

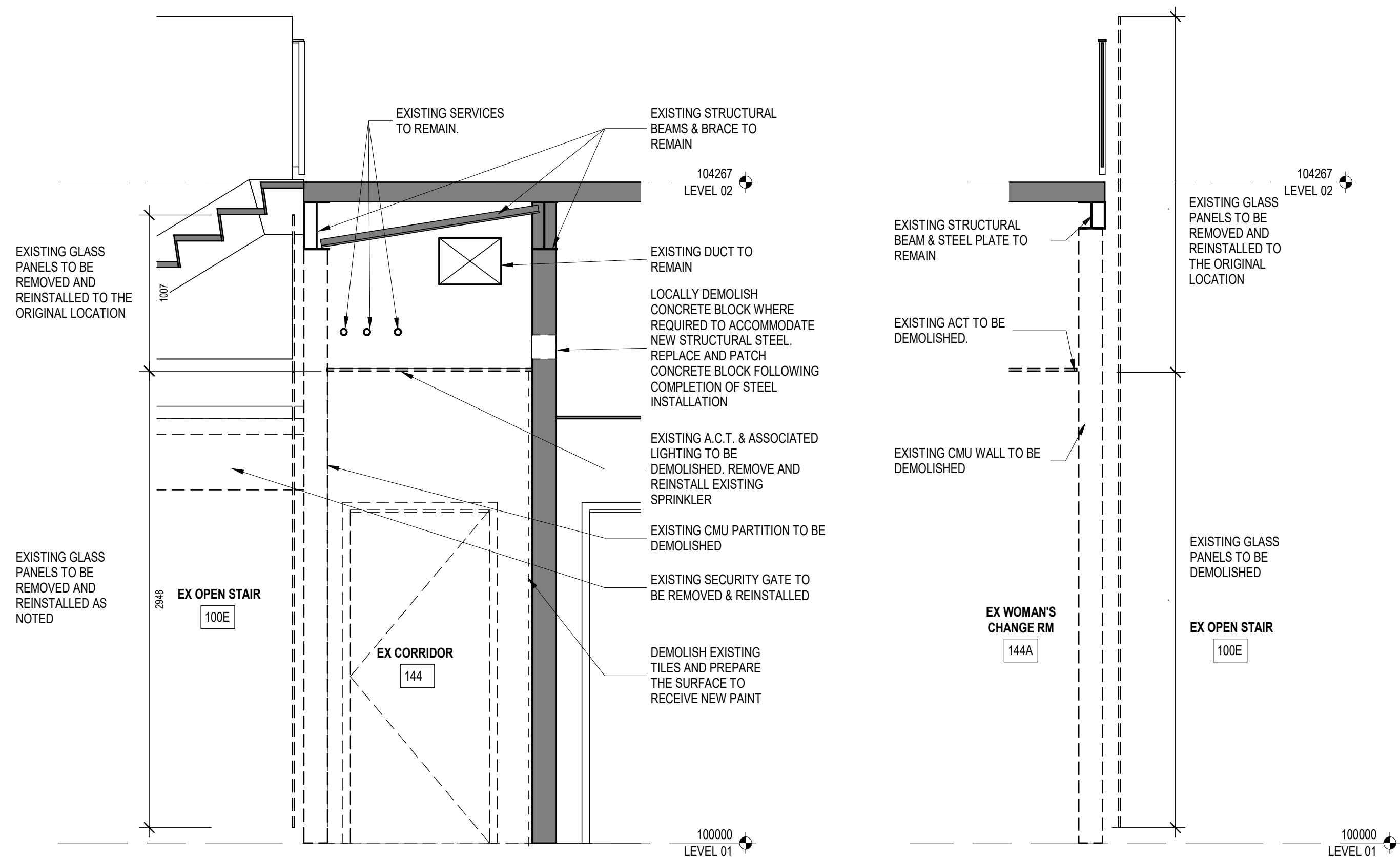
CONSTRUCTION NOTES & ASSEMBLY TYPES

Project Number Drawing Number

6010 A022

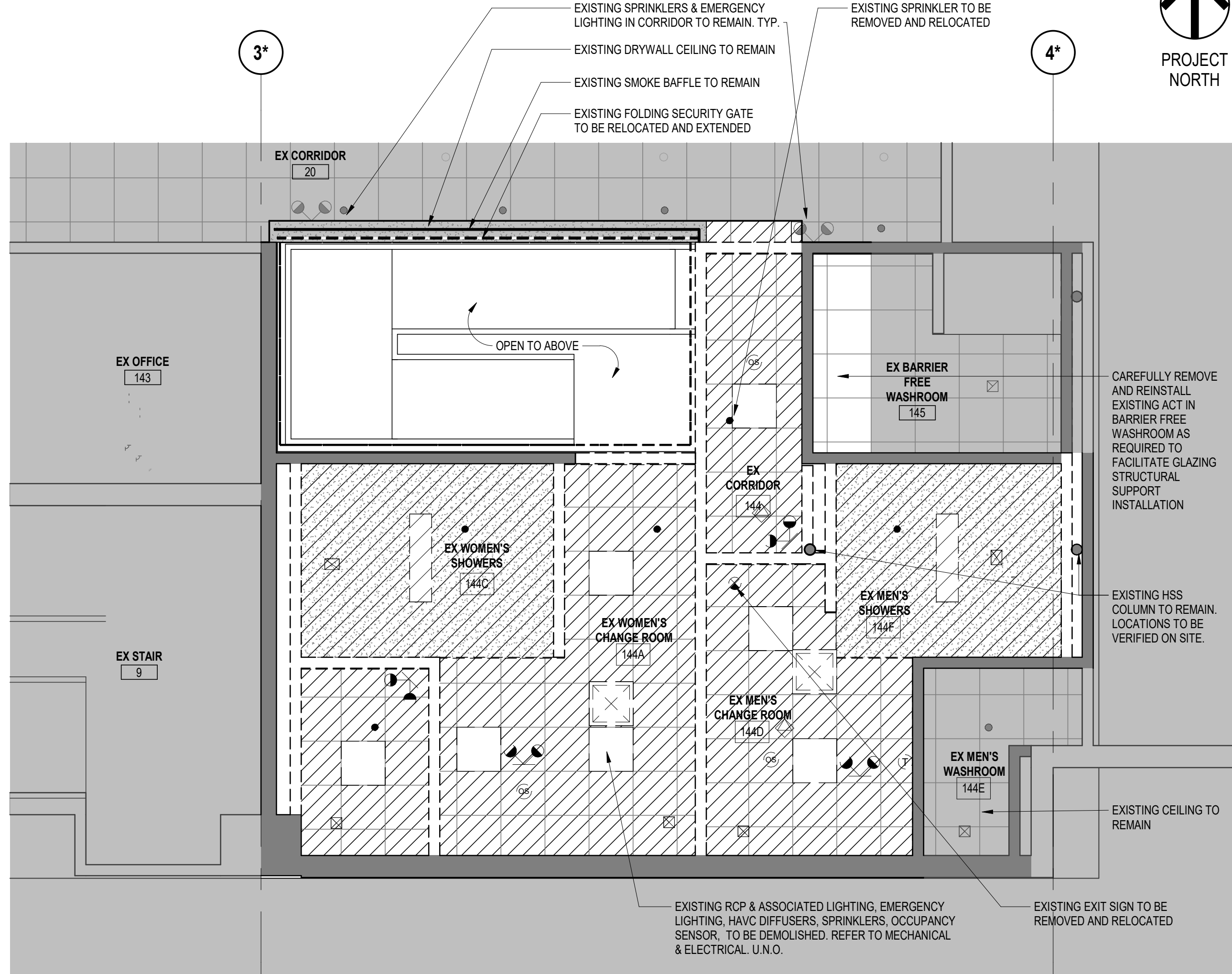


1 LEVEL 01 DEMO FLOOR PLAN
A201 Scale: 1 : 50

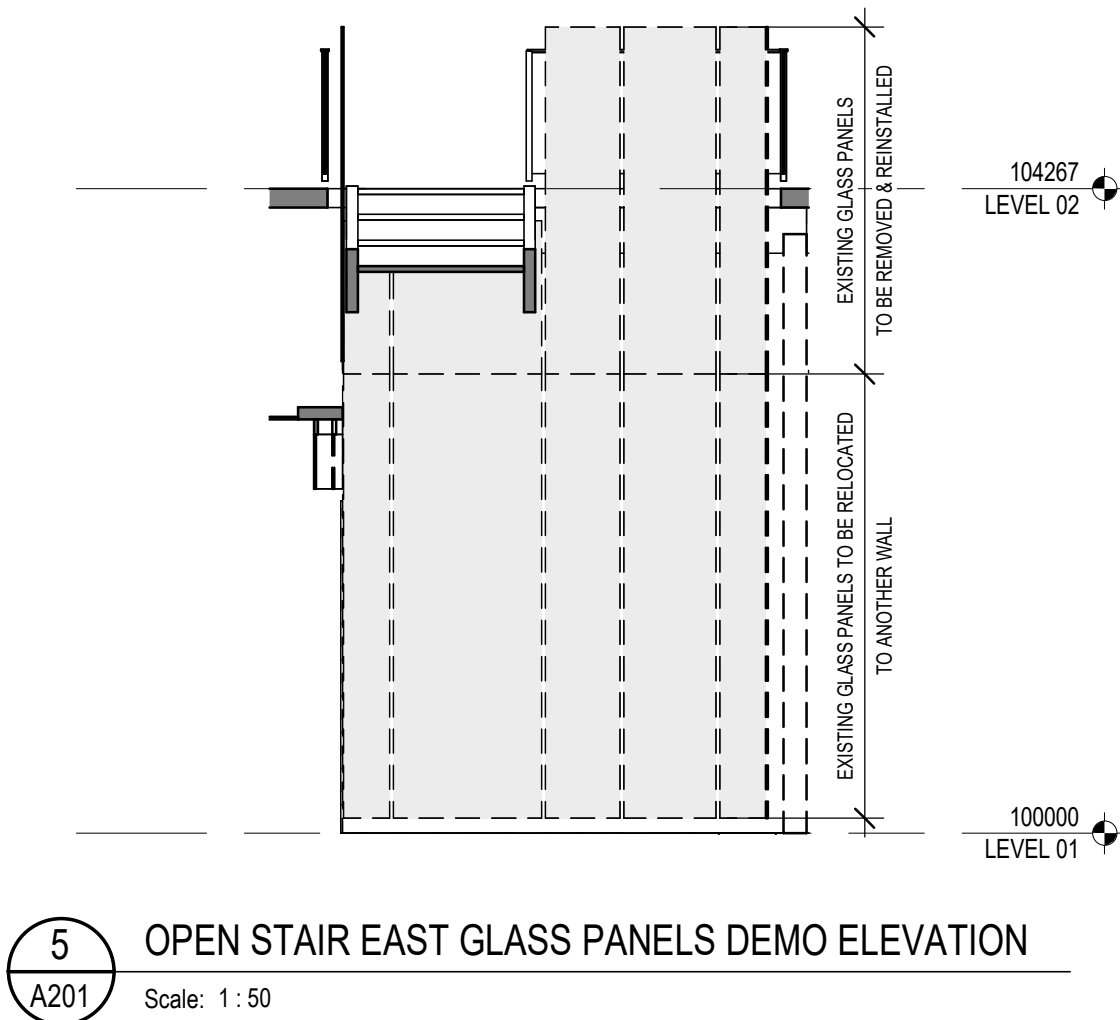


3 DEMO SECTION THROUGH OPEN STAIR AND EAST PARTITION
A201 Scale: 1 : 25

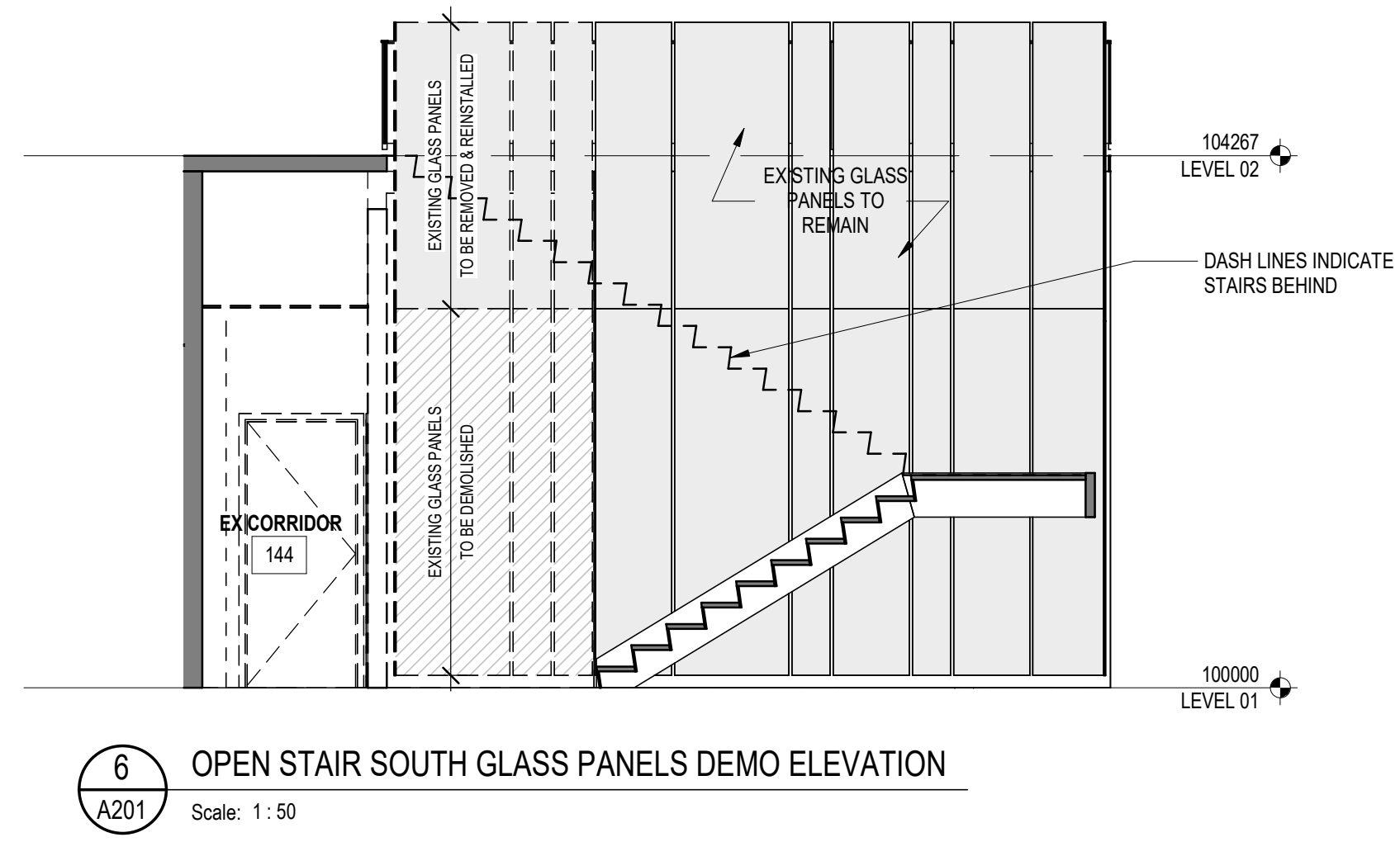
4 DEMO SECTION THROUGH OPEN STAIR SOUTH PARTITION
A201 Scale: 1 : 25



2 LEVEL 01 DEMO RCP
A201 Scale: 1 : 50



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



6 OPEN STAIR SOUTH GLASS PANELS DEMO ELEVATION
A201 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 BE REMOVED AND REINSTALLED
EXISTING GLASS PANELS TO BE DEMOLISHED

DEMOLITION FLOOR PLAN LEGEND

- EXISTING TO REMAIN
EXISTING TO DEMOLISH

DEMOM FLOOR PLAN & RCP NOTES

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

DEMOM 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
EXISTING OCCUPANCY SENSOR TO BE DEMOLISHED
EXISTING SPRINKLER
EXISTING EMERGENCY LIGHTING
EXISTING EXIT SIGN



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



Seal & Permit



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
NO.	ISSUED FOR	DATE

Drawing History	Checked By
Scale	Checker
As indicated	

Project

GBC ATHLETICS RENOVATION

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

Drawing Title

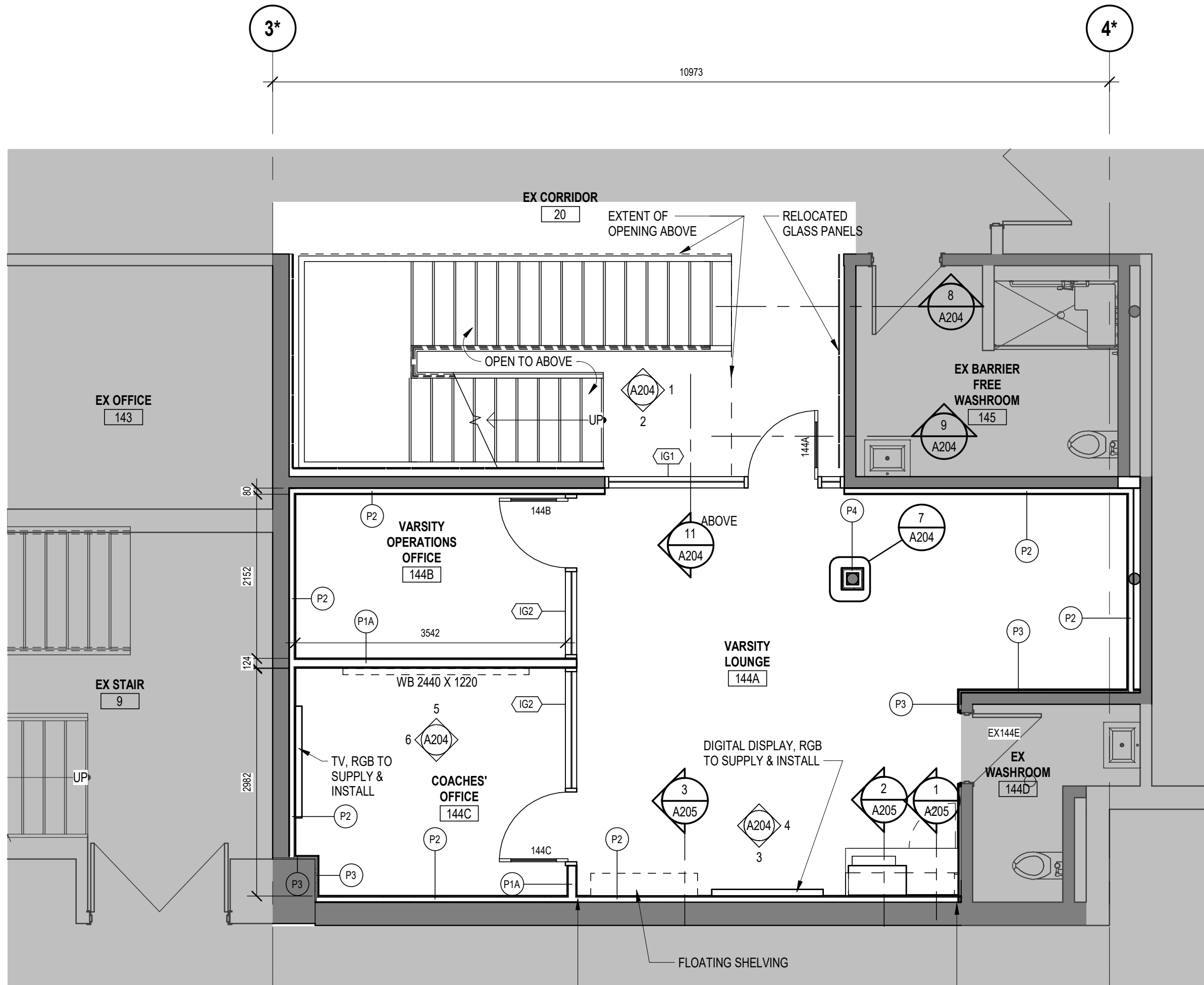
DEMOM, PROPOSED FLOOR PLAN & DEMOM RCP

Project Number

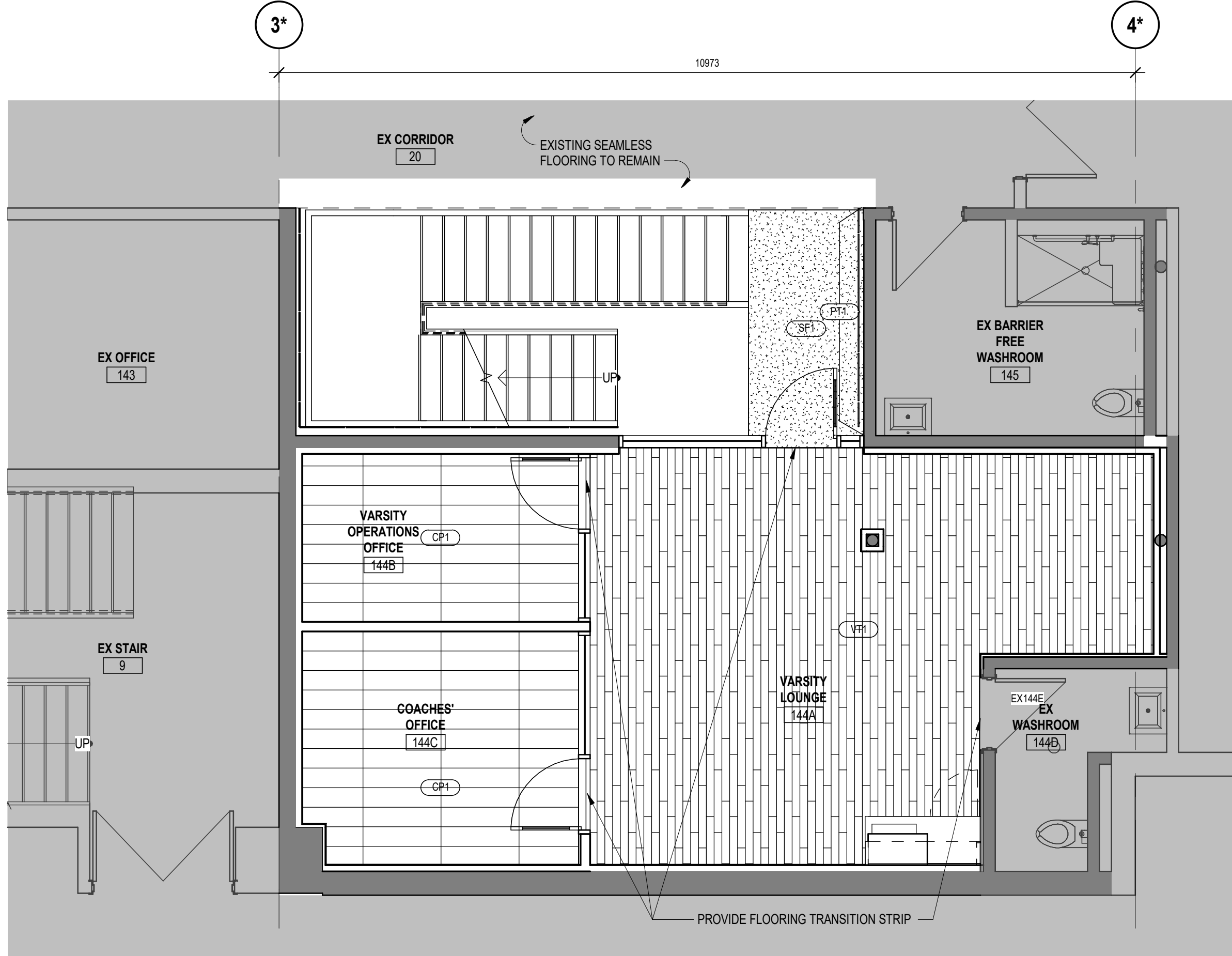
6010

Drawing Number

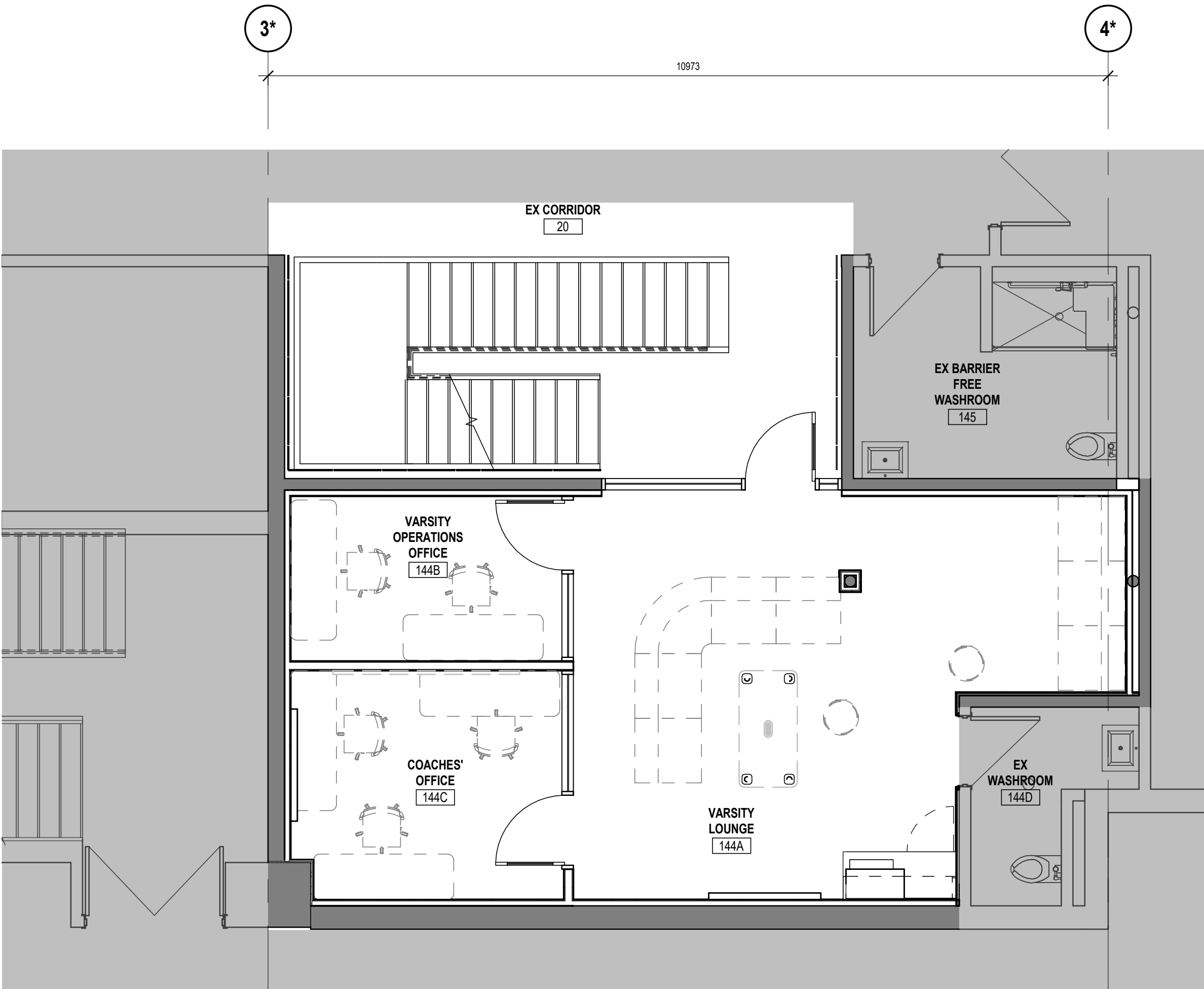
A201



1 LEVEL 01 FLOOR PLAN
A202 Scale: 1 : 50



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



2 LEVEL 01 FLOOR FURNITURE PLAN (FOR REFERENCE ONLY)
A202 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

- FURNITURE ARE NOT IN SCOPE
- * ALL GRID LINES ARE EXISTING GRID LINES
- REFER TO SPECS 09 99 99 MATERIAL LIST FOR FINISH & PRODUCT INFO
- CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE
- REFER TO MECH. DRAWINGS FOR MECHANICAL SCOPE
- REFER TO ELEC. DRAWINGS FOR ELECTRICAL SCOPE
- CONTRACTOR TO VERIFY ALL EXISTING WALL ASSEMBLIES ON SITE AS NEEDED
- NEW SEAMLESS FLOORING IN CORRIDOR TO MATCH WITH EXISTING
- 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	EAST	SOUTH	WEST	FINISH		
				FINISH	FINISH	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		

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
NO.	ISSUED FOR	DATE

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

Project Team:

Prime Consultant
GEC ARCHITECTURE

Structural Consultant
RJC Engineers

Mechanical Consultant
MCW Consultants Ltd.

Electrical Consultant
MCW Consultants Ltd.

Civil Consultant

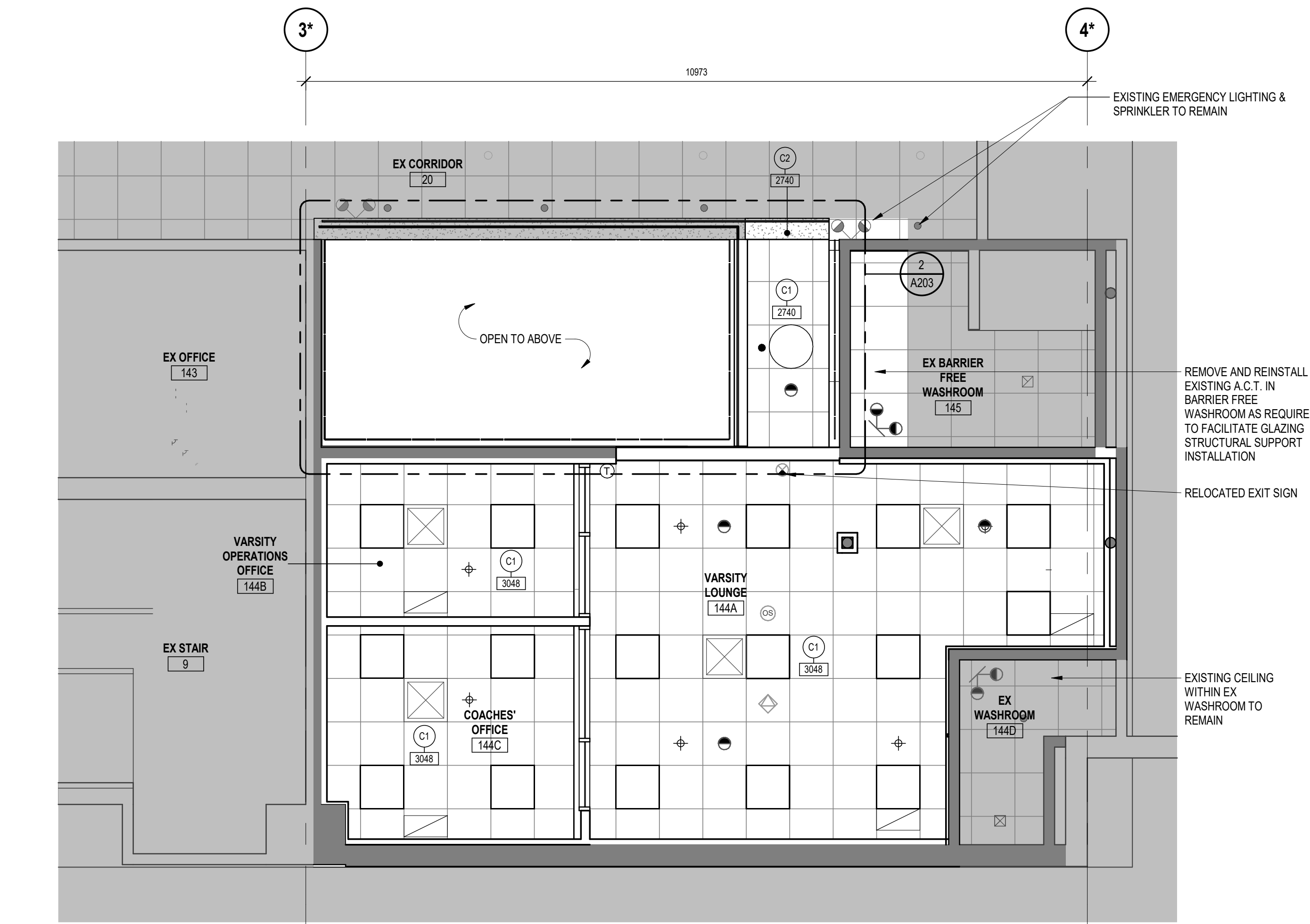
Landscape Consultant

Consultant Other

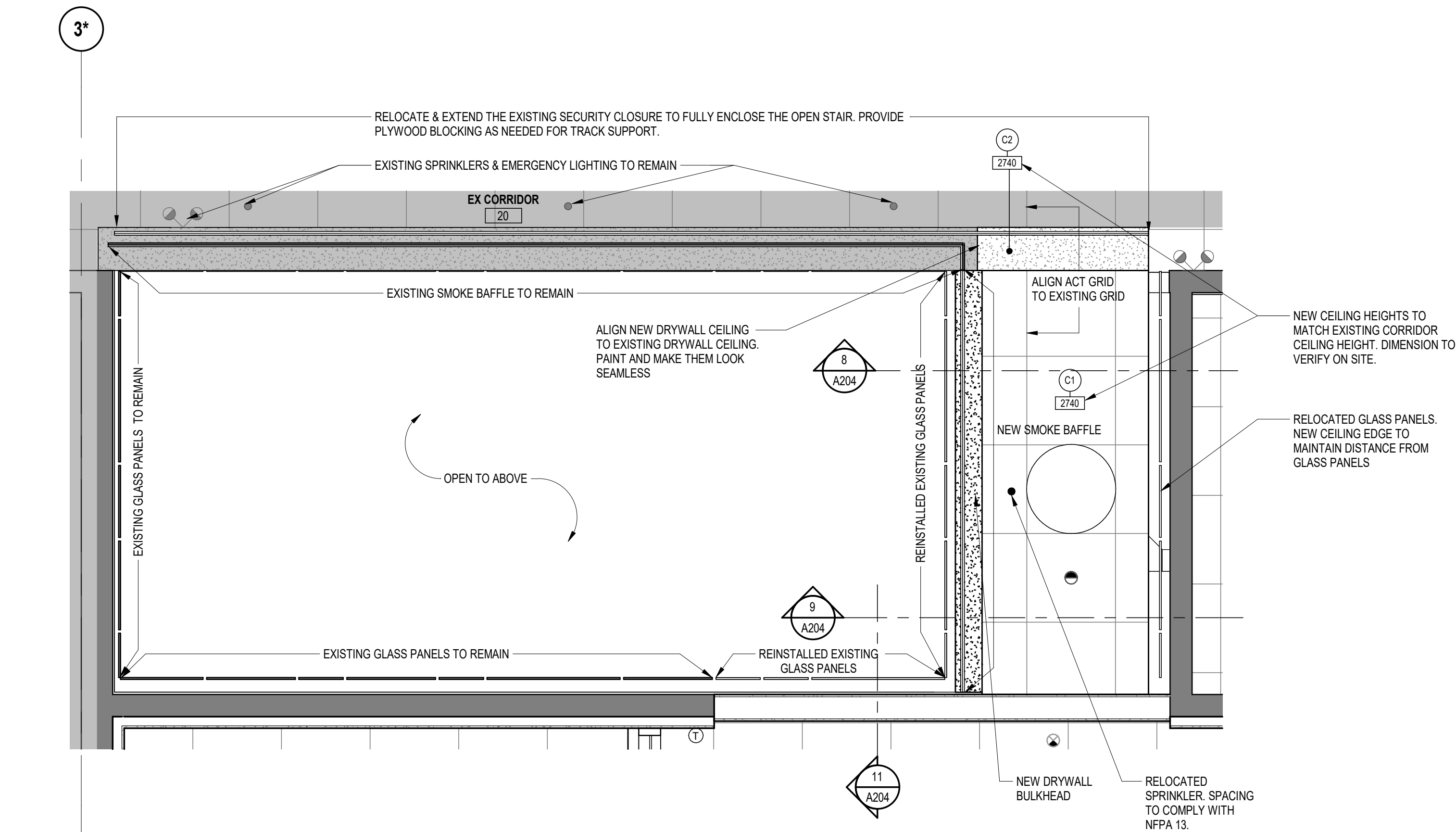
Client



Seal & Permit



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

- ALL DIMENSIONS TO BE VERIFIED ON SITE.
- ALL GYPSUM BOARD CEILINGS TO BE PAINTED PT1 UNLESS OTHERWISE NOTED
- PAINT ALL EXPOSED STRUCTURE, MECHANICAL EQUIPMENT, AND ELECTRICAL EQUIPMENT TO MATCH ADJACENT CEILINGS, UNLESS OTHERWISE NOTED
- REFER TO SPECIFICATION SECTION 09 99 99 FOR FINISH CODES & DESCRIPTIONS
- REFER TO MECHANICAL & ELECTRICAL FOR MECH. & ELEC. SCOPE
- 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

NO.	ISSUED FOR	DATE
-----	------------	------

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 Drawing Number

6010 **A203**

Project Number	Drawing Number
6010	A204

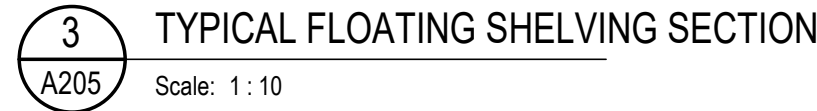
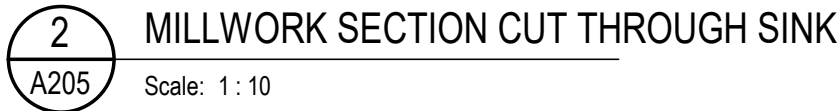
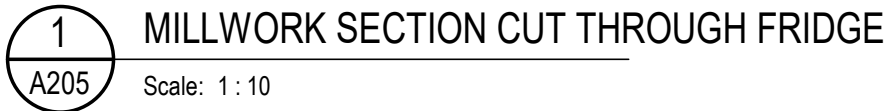


wing History e 1 : 10	Checked By Checker
-----------------------------	-----------------------

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

MILLWORK DETAILS

copyright © 2014 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



Seal & Permit



STRUCTURAL STEEL - GENERAL

- STRUCTURAL STEEL SECTIONS SHALL BE NEW AND CONFORM TO THE FOLLOWING U.N.O.:
 - W AND WT SHAPES ----- CSA G40.21 GRADE 345WM / ASTM A992
 - C, L, M, MC, MT, S, AND ST SHAPES ----- CSA G40.21 CSA G40.21 350W, ASTM A992, OR ASTM A572 GRADE 50
 - HP SHAPES ----- ASTM A572 GRADE 50
 - RECTANGULAR OR SQUARE HSS ----- ASTM A500 GRADE C, CSA G40.21 GRADE 350W, OR A490
 - ROUND HSS ----- ASTM A500 GRADE C
 - PIPE ----- ASTM A53 GRADE B
 - ROLLED PLATES AND BARS ----- CSA G40.21 GRADE 300W
 - WWF AND WRF SHAPES ----- CSA G40.21 GRADE 350W
 - BOLTS (SEE PLANS AND DETAILS) ----- ASTM F3125 GRADE A325 OR A490
 - STRUCTURAL STEEL ANCHOR RODS ----- ASTM F1554 (UNLESS NOTED OTHERWISE) GRADE 36 MINIMUM
 - REINFORCING BAR ANCHOR BOLTS ----- CSA G30.18 GRADE 400R
- USE OF STRUCTURAL STEEL SHAPES, PLATE OR BARS WITH HIGHER GRADE THAN NOTED ABOVE SUBJECT TO APPROVAL BY RJC.
- 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

- FABRICATION, ERECTION, STRUCTURAL DESIGN, AND DETAILING OF ALL STEEL SHALL BE IN ACCORDANCE WITH CSA S16.
- 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.
- 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.
- FILLET WELDS SHALL BE 5 mm MINIMUM UNLESS NOTED OTHERWISE.
- BOLTS SHALL BE 3/4" MINIMUM A325 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS IN EACH CONNECTED PIECE AND BE DESIGNED AS BEARING CONNECTIONS, U.N.O.
- UNLESS NOTED OTHERWISE, BOLTED CONNECTIONS WITH OVERSIZED OR SLOTTED HOLES SHALL HAVE WASHERS PER CISC STANDARD PRACTICE:
 - OVERSIZED AND SHORT SLOTS: HARDENED WASHERS.
 - LONG SLOTS: PLATE WASHERS FULLY COVERING THE SLOTS.
- 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

- 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.
- 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.
- 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.
- 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.
- 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

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

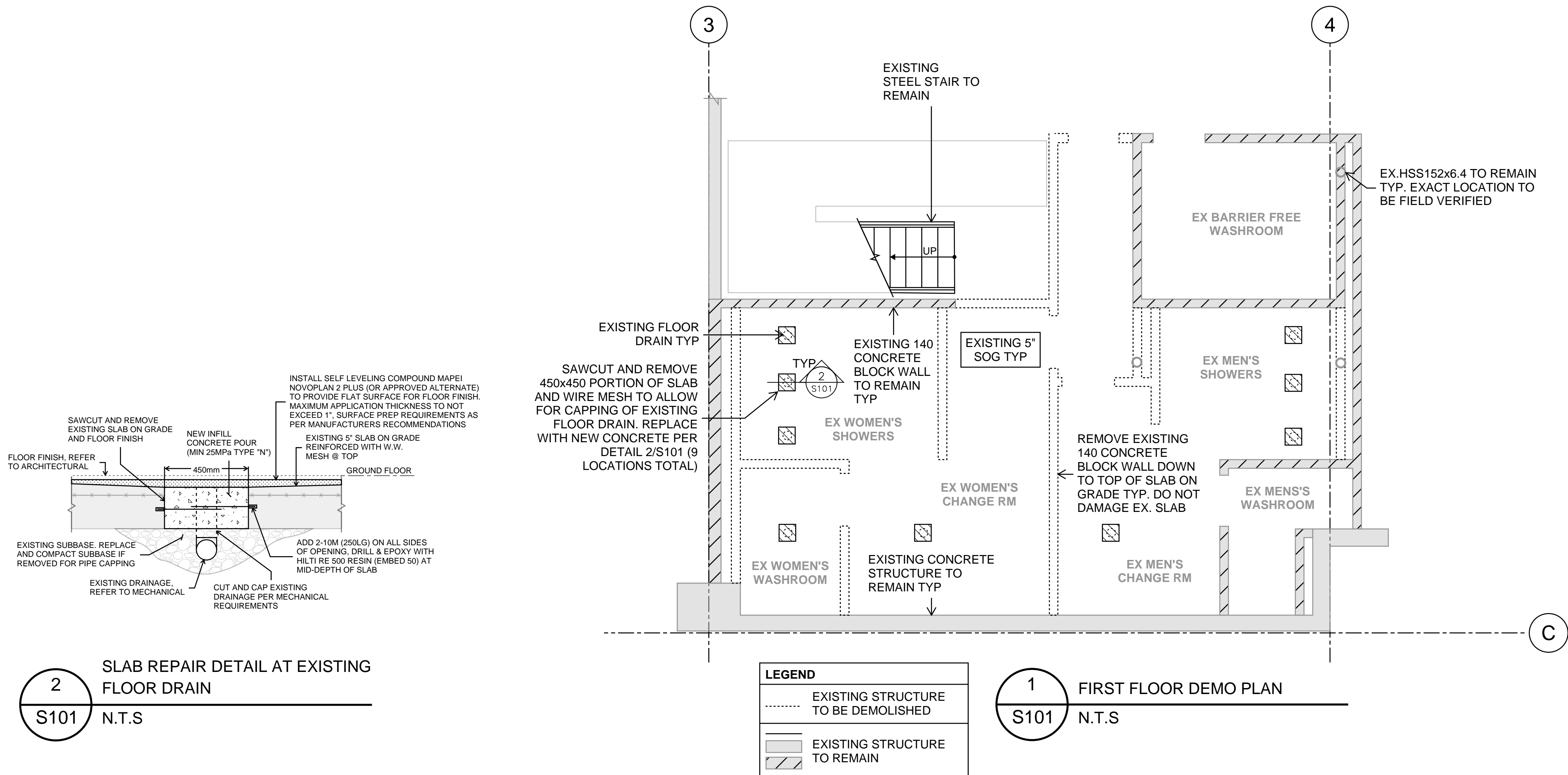
- UNLESS NOTED OTHERWISE, ALL CONCRETE IS TO BE CAST-IN-PLACE. PLACEMENT BY THE WET-MIX SHOTCRETE METHOD IS NOT PERMITTED.

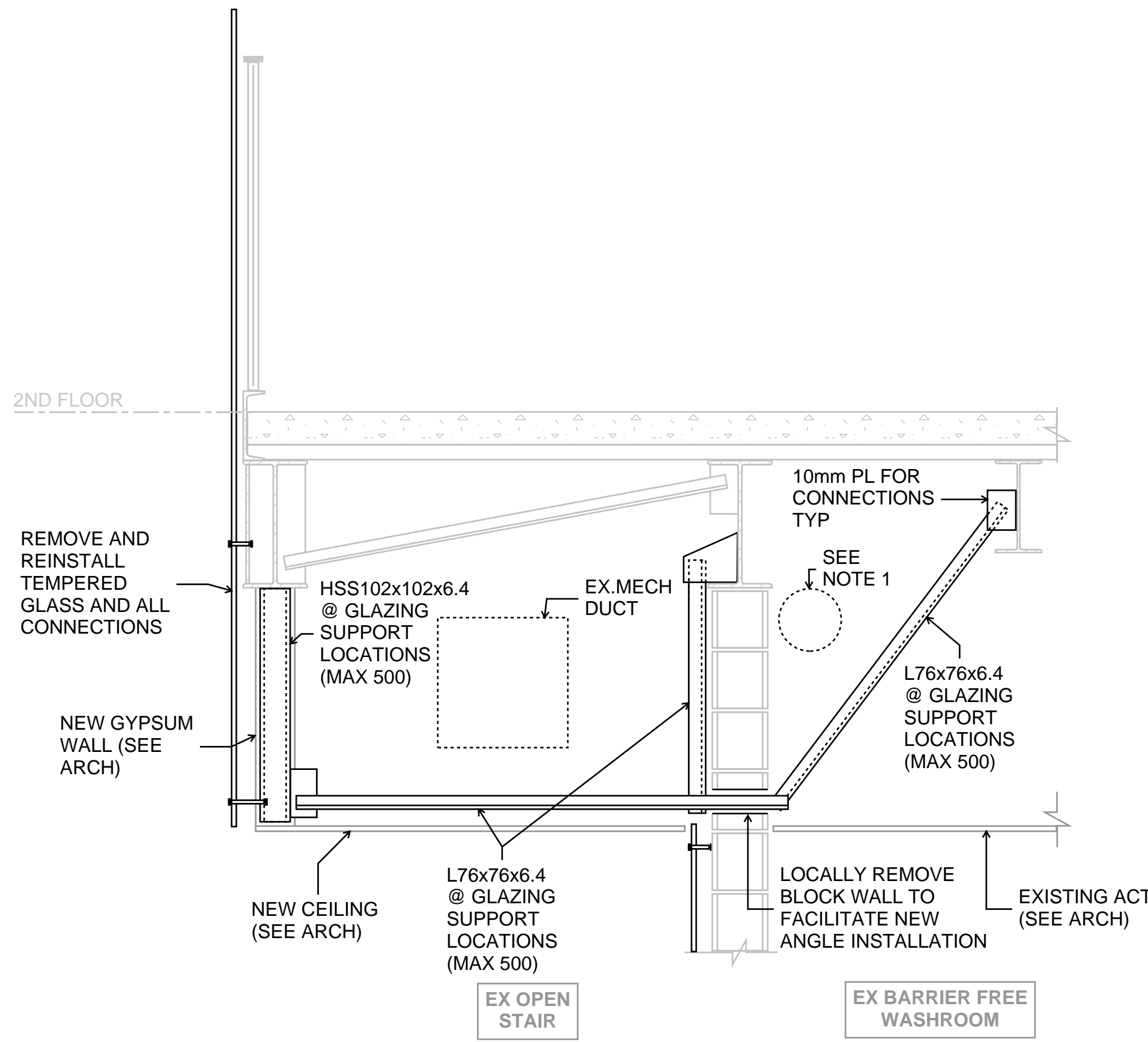
CONCRETE PROPERTIES

- CONCRETE IS SPECIFIED AS PER THE "PERFORMANCE" ALTERNATE AS OUTLINED IN CSA A23.1.
- 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.
- CONCRETE COMPRESSIVE STRENGTH AND EXPOSURE CLASS SHALL BE AS NOTED ON THE DRAWINGS.
- SLUMP AND AGGREGATE SIZE TO BE DETERMINED BY THE GENERAL CONTRACTOR AND SUPPLIER TO MEET PLACEMENT AND FINISHING REQUIREMENTS WITHOUT SEGREGATION OF CONCRETE.
- CURING OF CONCRETE TO MEET THE REQUIREMENTS FOR THE EXPOSURE CLASS AS OUTLINED IN CSA A23.1.

GENERAL

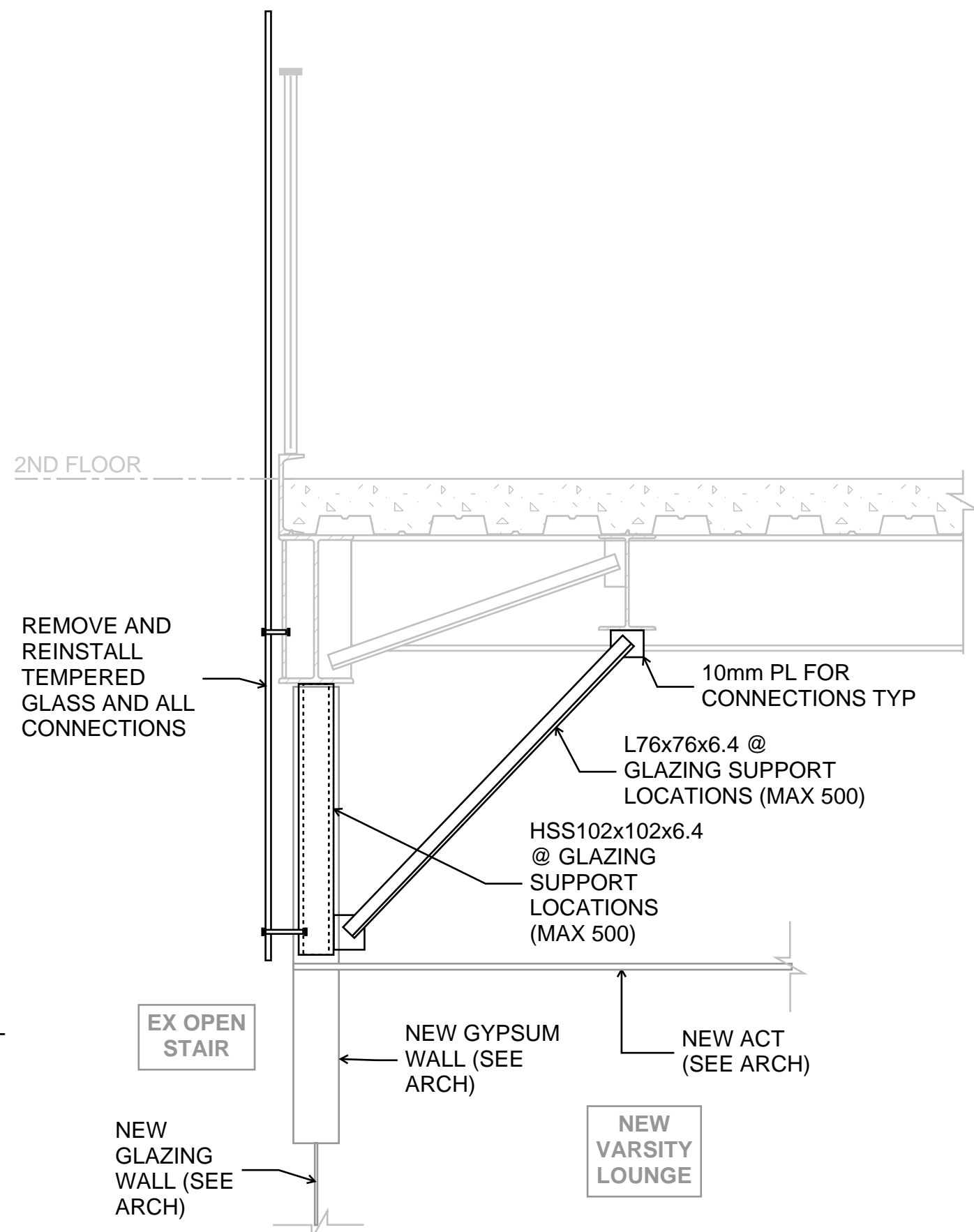
- SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, DRAINAGE SLOPES, ETC.
- THE GENERAL CONTRACTOR SHALL REVIEW ALL THE DRAWINGS AND CHECK DIMENSIONS BEFORE CONSTRUCTION, REPORT DISCREPANCIES BETWEEN STRUCTURAL AND OTHER DISCIPLINES DRAWINGS FOR CLARIFICATION.
- CONCRETE WORK:** SHALL CONFIRM TO CSA A23.1, CSA A23.2, CSA A23.3 AND REFERENCED DOCUMENTS.
- DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS NOT INDICATED ON THE DRAWINGS, OR WITHOUT WRITTEN PERMISSION OF RJC.
- DEFINITIONS:**
 - RJC: READ JONES CHRISTOFFERSEN OR ITS REPRESENTATIVE.
 - SPECIALTY STRUCTURAL ENGINEER: A STRUCTUAL ENGINEER REGISTERED AND LICENSED TO PRACTICE BY THE PROFESSIONAL ENGINEERING ASSOCIATION HAVING JURISDICTION IN THE AREA WHERE THE STRUCTURE IS TO BE BUILT.
 - 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.



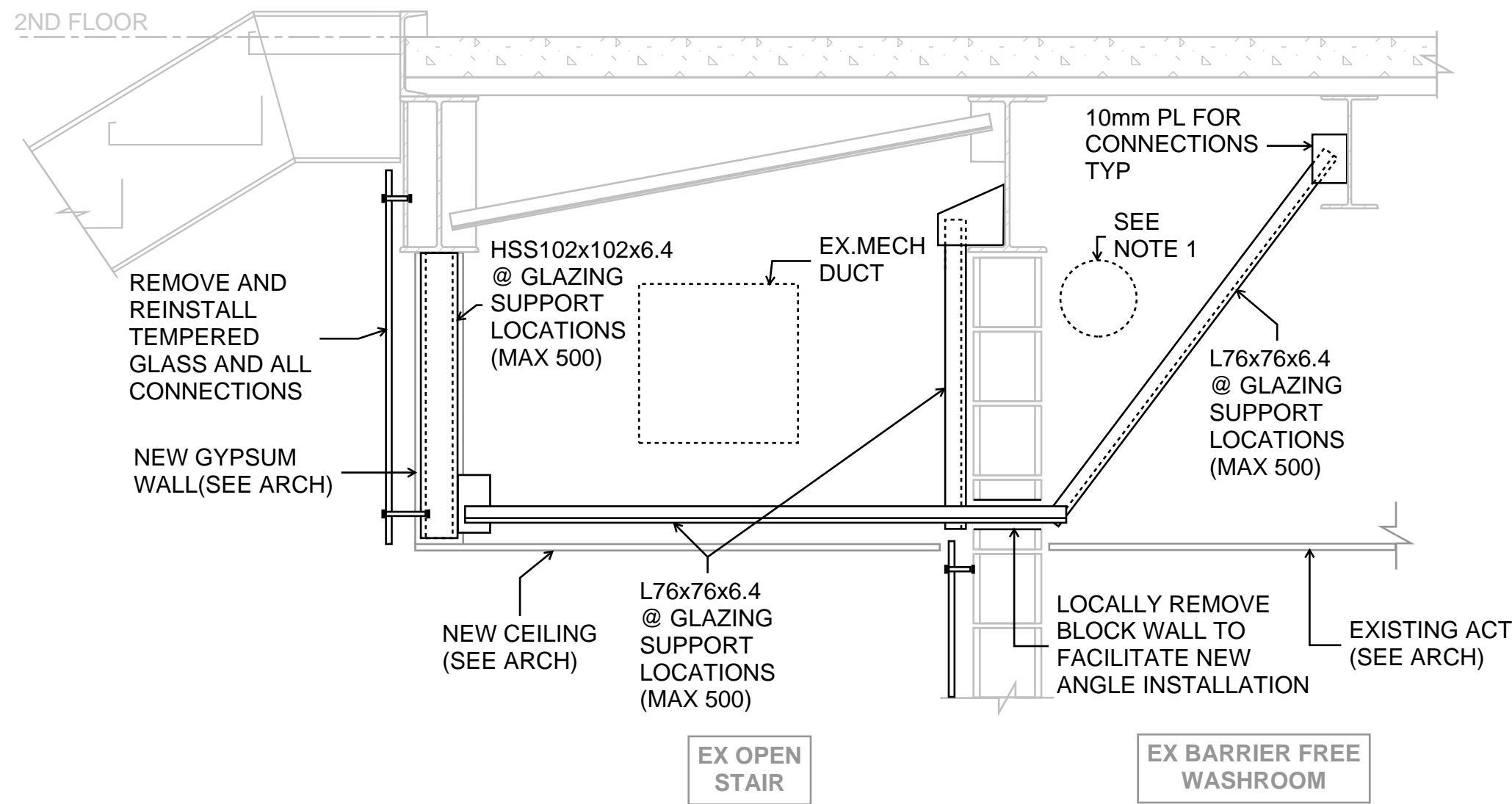


3
SECTION THROUGH EAST SIDE OF STAIR
OPENING
S102 N.T.S

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

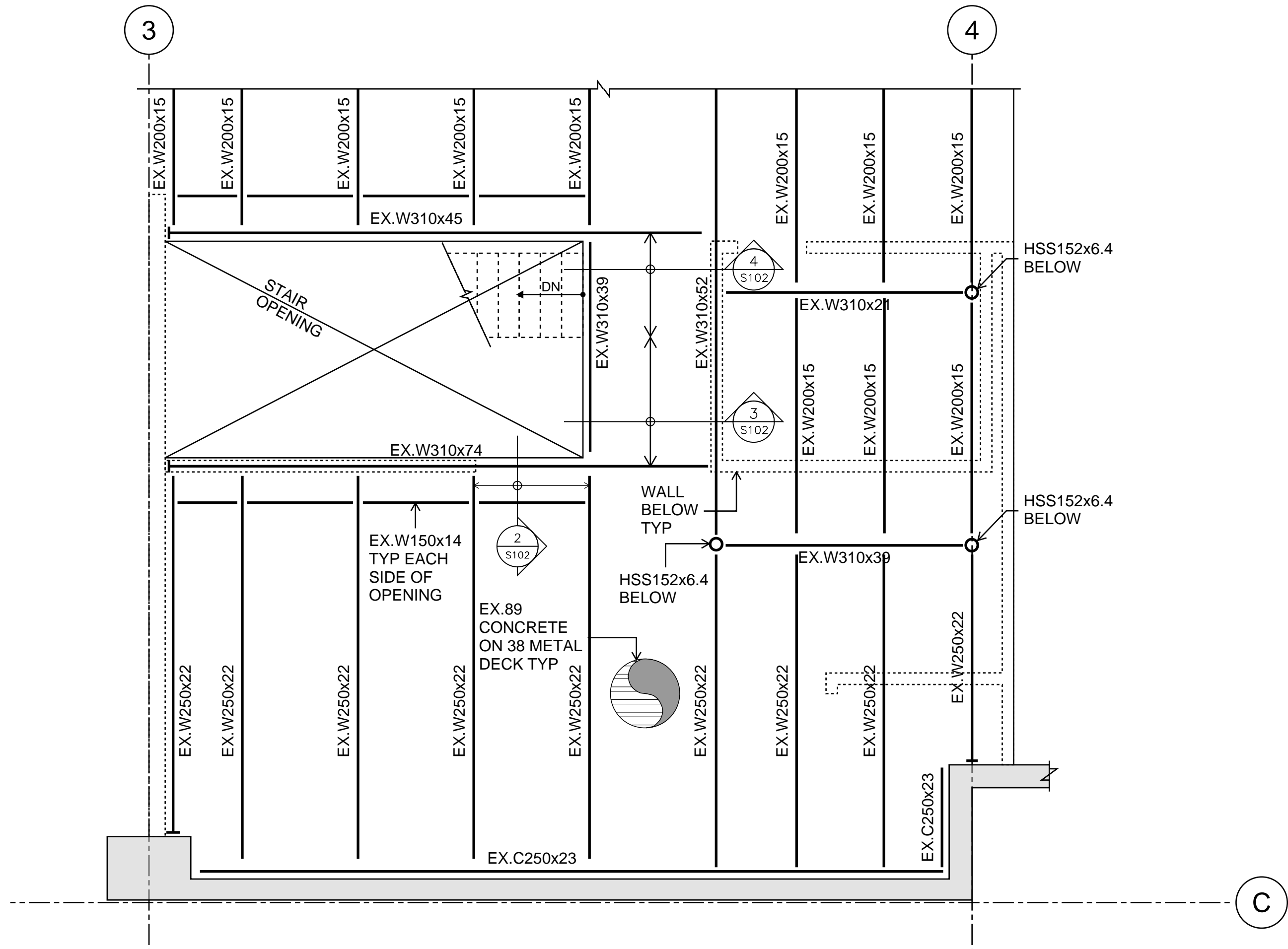


2
SECTION THROUGH SOUTH SIDE OF STAIR
OPENING
S102 N.T.S



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



1
SECOND FLOOR PLAN
S102 N.T.S

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

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



Seal & Permit



NO.	ISSUED FOR	DATE
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	Checked By
AS NOTED	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 Drawing Number
TOR.110699.0002 **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 COOK

MANUAL THREE-WAY VALVE

HAND WHEEL - RISING STEM (OS&Y)

HAND WHEEL - NON-RISING STEM

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

GAS PRV

SAFETY OR RELIEF VALVE

HOSE BIBB VALVE

PIPE ACCESSORIES

SIGHT GLASS

VACUUM BREAKER

GAS METER

WATER METER

MAGNETIC FLOW METER

FLEXIBLE CONNECTION

HEAT TRACE (INSULATED)

HEAT TRACE (NON-INSULATED)

THRUST BLOCK

PIPE ANCHOR

PIPE GUIDES

EXPANSION COMPENSATOR

AUTO VENT

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

BUTTERFLY VALVE (WITH WELDNECK FLANGES)

BUTTERFLY 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

WALL HUNG HANDICAPPED SINK

DRINKING FOUNTAIN

EMERGENCY EYEWASH

BATHTUB

SHOWER

SINGLE / DOUBLE GAS SUPPLY VALVE

SPLASH PAD

CATCH BASIN

CATCH BASIN (HALF)

MANHOLE

STEAM TRAPS

INVERTED BUCKET

FLOAT AND THERMOSTATIC

THERMOSTATIC

THERMODYNAMIC (DISK)

VARIABLE ORIFICE (PITON)

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

ECCENTRIC REDUCER (FLAT ON BOTTOM)

ECCENTRIC REDUCER (FLAT ON TOP)

QUICK CONNECT

SIGHT GLASS

DRAIN CONNECTION

FIRE PROTECTION

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

PENDANT

PENDANT (EXISTING TO REMAIN)

PENDANT (DEMOLISHED)

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

FIRE EXTINGUISHER

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

WET ALARM VALVE

DRY ALARM VALVE

PRE-ACTION ALARM VALVE

FIRE HAZARD LEVEL

CONTROLS AND CONTROL POINTS

CONTROL WIRE

THERMOSTAT / SPACE TEMPERATURE SENSOR

THERMOSTAT WITH GAURD

HUMIDISTAT / HUMIDITY SENSOR

CO2 SENSOR

SWITCH

PUSH BUTTON

FLOW SWITCH

PRESSURE SWITCH

TEMPERATURE SWITCH

CONTROL POINT - ANALOG INPUT

CONTROL POINT - ANALOG OUTPUT

CONTROL POINT - DIGITAL INPUT

CONTROL POINT - DIGITAL OUTPUT

CONTROL POINT - BACNET COMMUNICATIONS

VARIABLE FREQUENCY DRIVE

END SWITCH

DAMPER MOTOR

TEMPERATURE PROBE

FLOW TRANSMITTER

HUMIDITY PROBE

DIFFERENTIAL PRESSURE

FREEZE STAT

OUTSIDE AIR TEMPERATURE SENSOR

PRESSURE SENSOR

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

DHWRC

EXISTING DOMESTIC HOT WATER RECIRC.

PLUMBING:

GA

COMPRESSED AIR PIPE

CV

CENTRAL VAC - DRY MOP

CV-W

CENTRAL VAC - WET

DCW

DOMESTIC COLD WATER

DHW

DOMESTIC HOT WATER

DHWRC

DOMESTIC HOT WATER RECIRC.

PB

DOMESTIC COLD WATER - PRESSURE BOOSTED

SW

SOFTENED DOMESTIC WATER

TW

DOMESTIC TEMPERED WATER

NFW

NON-POTABLE WATER PIPE

SAN

SANITARY DRAINAGE

SAN-

SANITARY DRAINAGE (BELOW)

V

SANITARY VENT

SW

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

FOW

FUEL VENT

HEATING/COOLING PIPING:

HWS

HEATING WATER SUPPLY

HWR

HEATING WATER RETURN

HGS

HEATING GLYCOL SUPPLY

HGR

HEATING GLYCOL RETURN

DWS

DUAL TEMPERATURE WATER SUPPLY

DWR

DUAL TEMPERATURE WATER RETURN

CWS

CHILLED WATER SUPPLY

CWR

CHILLED WATER RETURN

GS

CONDENSER WATER SUPPLY

GR

CONDENSER WATER RETURN

GWS

GROUND WATER SUPPLY

GWR

GROUND WATER RETURN

GGS

CHILLED GLYCOL SUPPLY

GGR

CHILLED GLYCOL RETURN

BS

BRINE SUPPLY

BR

BRINE RETURN

BVR

BRINE VENT

RL

REFRIGERANT LIQUID SUPPLY

RV

REFRIGERANT VAPOUR RETURN

LPS

LOW PRESSURE STEAM

LPC

LOW PRESSURE CONDENSATE

MPS

MEDIUM PRESSURE STEAM

MPC

MEDIUM PRESSURE CONDENSATE

HPS

HIGH PRESSURE STEAM

HPC

HIGH PRESSURE CONDENSATE

LAB GAS:

LGA

LAB COMPRESSED AIR

GGC

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

GCC

MEDICAL CO2

N2

MEDICAL NITROGEN

N2O

MEDICAL NITROUS OXIDE

O2

MEDICAL OXYGEN

MGS

MEDICAL GAS SCAVENGING

MV

MEDICAL VACUUM

SPRINKLER AND FIRE PROTECTION

FIRE PROTECTION ZONE

FIRE PROTECTION RATING

FIRE PROTECTION PIPE

F

SPRINKLER MAIN

GP

SPRINKLER BRANCH PIPING

GGP

DRY SPRINKLER PIPING

PA

PRE-ACTION SPRINKLER PIPING

IG

INERT GAS (CLEAN AGENT) PIPE

VENTILATION:

TERMINAL BOX / WITH ATTENUATOR / AND REHEAT COIL

EXISTING DUCT TO REMAIN (TYPE INDICATED)

EXISTING DUCT TO BE DEMOLISHED

SIA

SUPPLY AIR DUCT

RIA

RETURN AIR DUCT

TIA

FUEL OIL AIR DUCT

OIA

OUTDOOR AIR DUCT

GE

GENERAL EXHAUST DUCT

WE

WASHROOM EXHAUST DUCT

KE

KITCHEN EXHAUST DUCT

FE

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

PLUMBING FIXTURE TYPE TAG

GRILLE / DIFFUSER TAG

FIN TUBE RADIATION TAG

RADIANT PANEL TAG

EQUIPMENT IDENTIFICATION TAG

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-

EXHAUST 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

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 CONJUNCTURE WITH ARCHITURAL DRAWINGS.
2.	THIS DRAWING SET SHALL BE READ IN CONJUNCTURE 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 TESTING 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. REFER TO ARCHITECTURAL FOR PROJECT PHASING AND CONSTRUCTION SCHEDULE.
6.	MAINTAIN SERVICE TO OCCUPIED AREAS. PROVIDE ALL TEMPORARY CONNECTIONS, RELOCATIONS, AND TEMPORARY EQUIPMENT REQUIRED TO ACCOMMODATE PHASING SCHEDULE.
7.	

MEDICAL GAS VALVES

MEDICAL GAS ZONE VALVE

MEDICAL GAS OUTLET (TYPE INDICATED)

MEDICAL GAS - NON RETURN VALVE

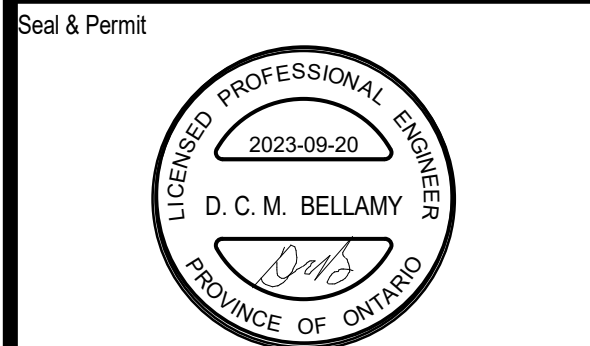
UP FROM BELOW / UP TO ABOVE

DOWN TO BELOW / DOWN FROM ABOVE

VENT UP FROM BELOW / UP TO ABOVE

VENT UP FROM BELOW / UP TO VENT CAP

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



MCW
MCW Consultants Ltd.
Vancouver, Calgary, Edmonton, Regina, Winnipeg, Toronto, Thunder Bay, Ottawa, Mississauga, Oshawa, Truro, Halifax
Queen's Quay Terminal
207 Queen's Quay West, Suite 615
Toronto, Ontario, M5J 1A7
Tel: 416-598-2020
Fax: 416-598-5394
www.mcw.com

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

NO.	ISSUED FOR	DATE
5	ISSUED FOR PERMIT & TENDER	2023-09-20
4	ISSUED FOR PRE-TENDER REVIEW	2023-09-08
3	ISSUED FOR PROGRESS	2023-09-01
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

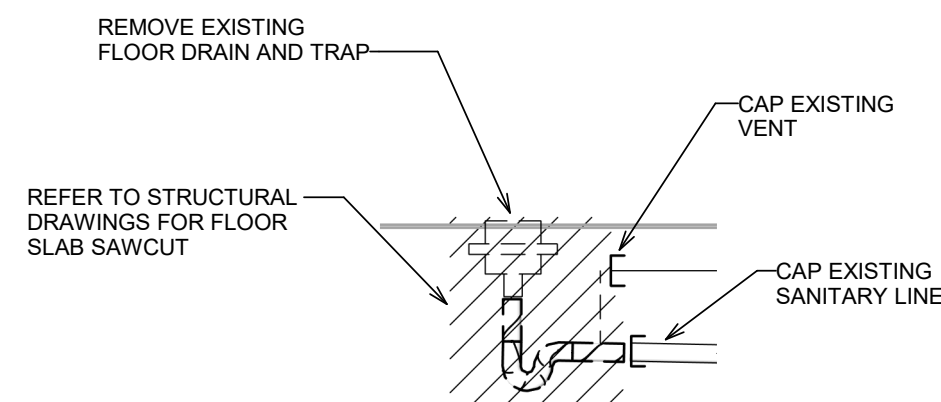
DRAINAGE PLANS

Project Number: 23183
Drawing Number: M2-00
Copyright © 2014 GEC Architecture

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.

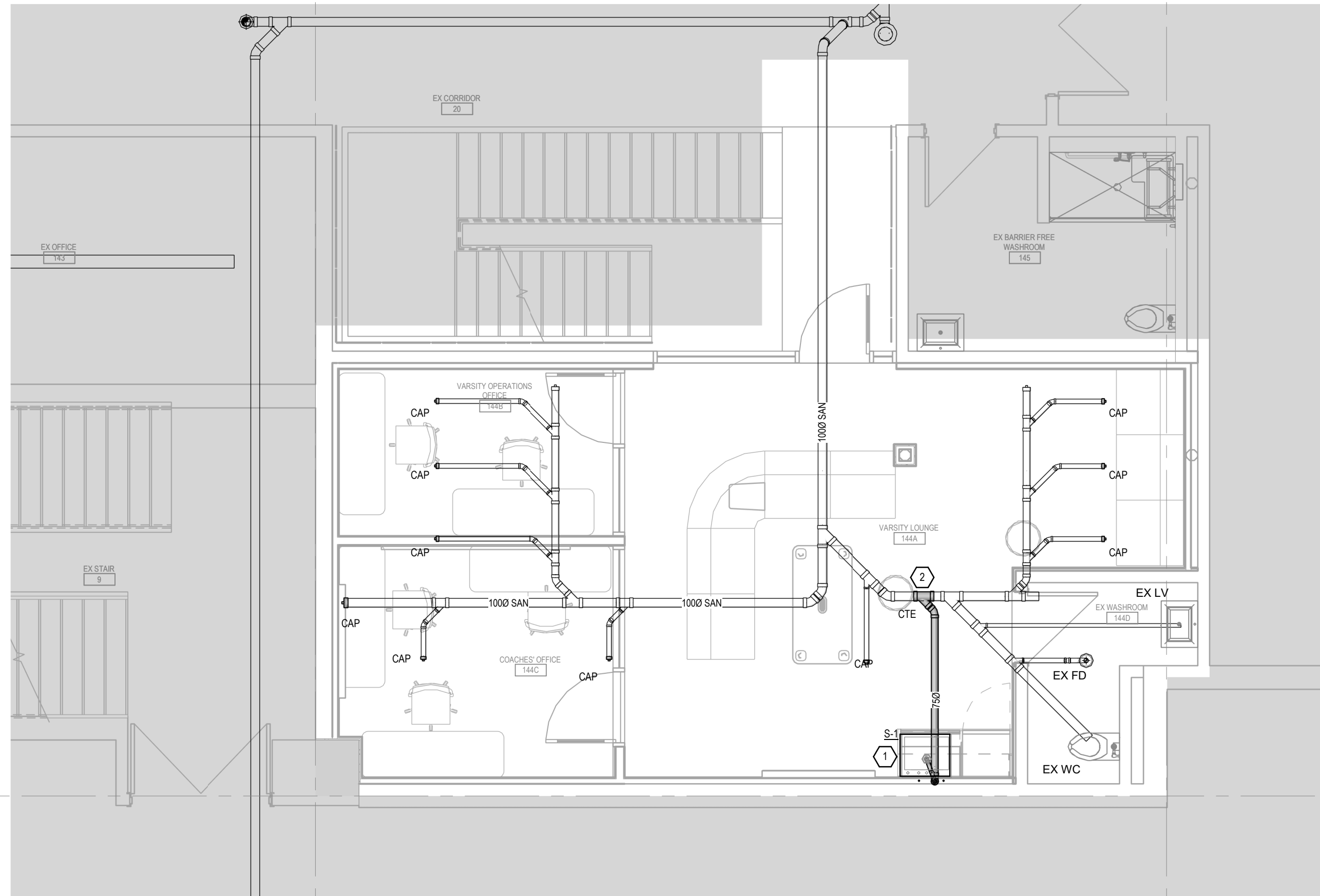
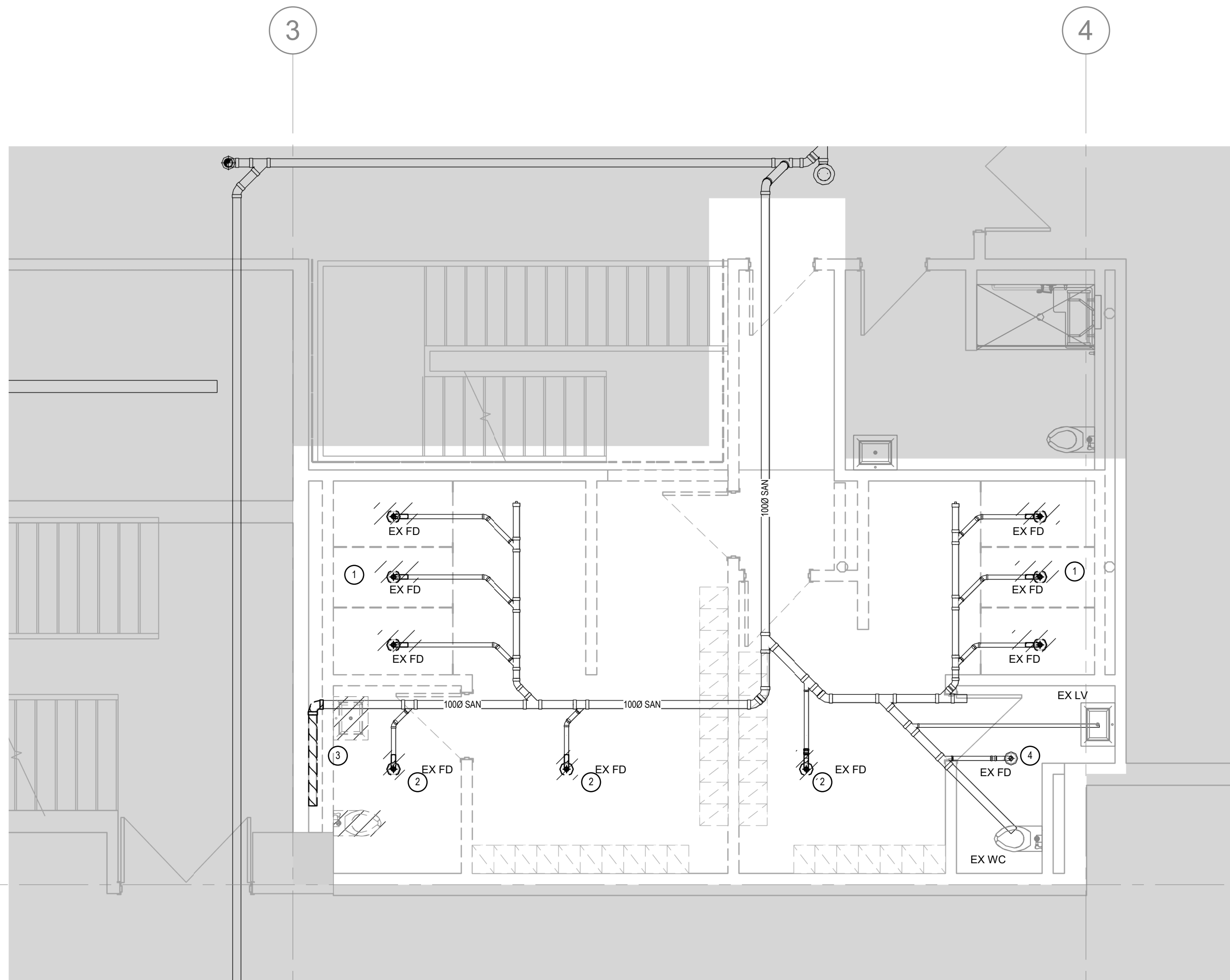
DRAINAGE SHEETNOTES:	
NOTE	DESCRIPTION
①	NEW 400 DRAIN SERVING NEW S-1 WITH NEW 750 BURIED PIPE. CONNECT TO EXISTING.
②	CONNECT TO EXISTING PIPEWORK AT APPROXIMATELY THIS LOCATION. CONFIRM ON SITE.



3 EXISTING FLOOR DRAIN DEMOLITION
M2-00 1 : 25

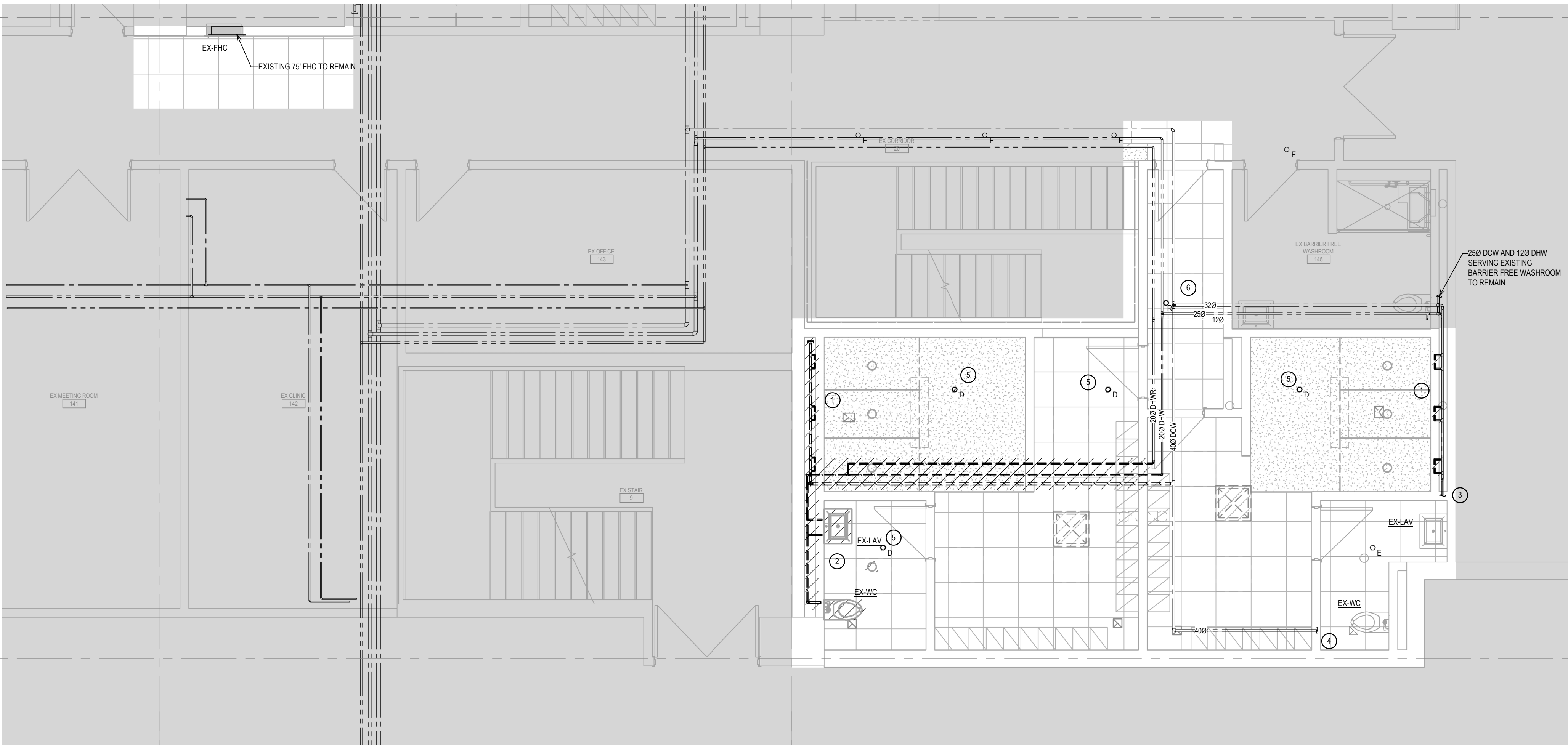
1 DRAINAGE DEMO PLAN
M2-00 1 : 50

2 DRAINAGE PLAN
M2-00 1 : 50



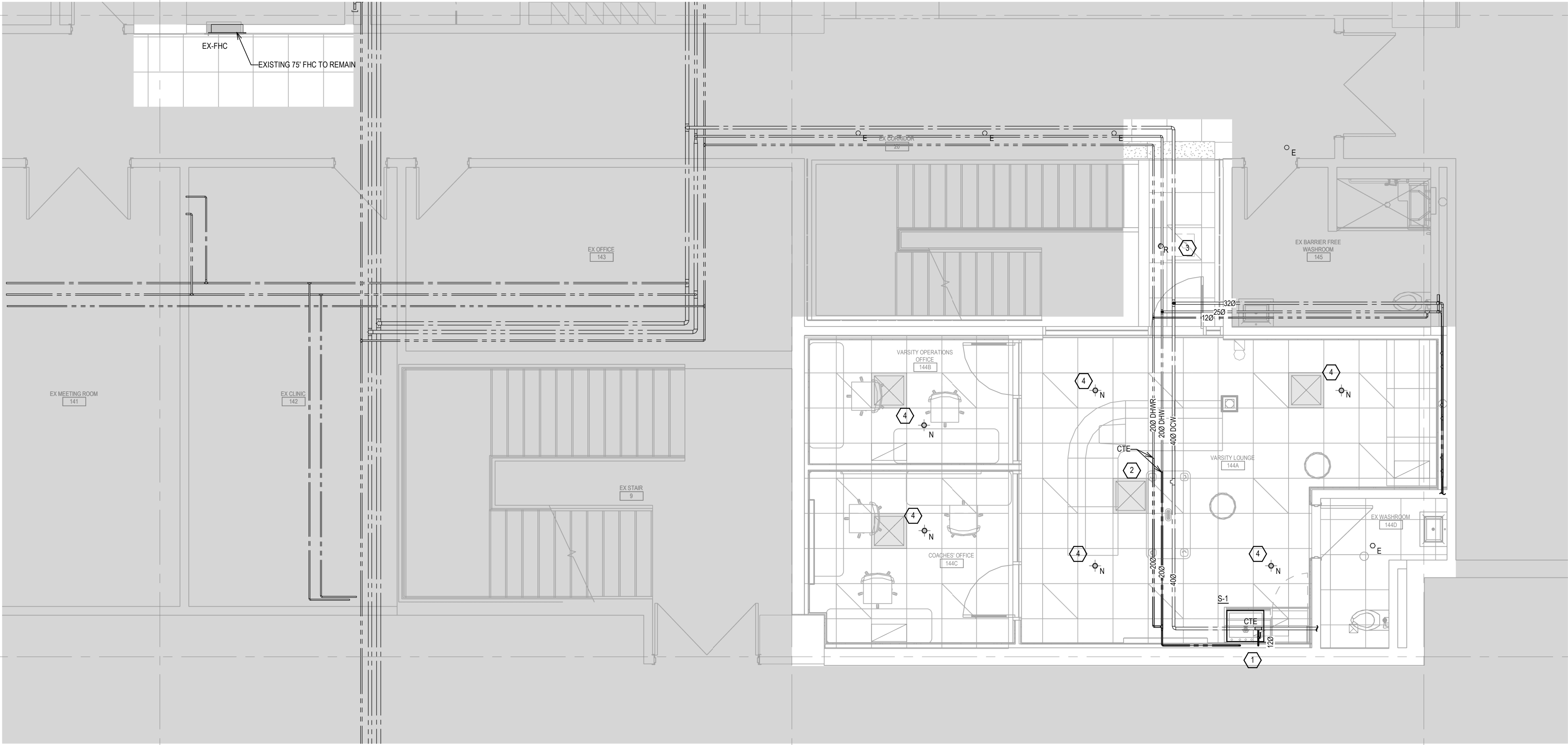
PLUMBING GENERAL NOTES:	
NOTE	DESCRIPTION
1.	PIPE ROUTING IS SHOWN DIAGRAMMATICALLY AND INDICATES DESIGN INTENT. CONFIRM EXACT ROUTING AND CO-ORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, HANGERS, ELECTRICAL AND STRUCTURE ON SITE. PROVIDE OFFSETS AND ADJUST ROUTING AS REQUIRED.
2.	CO-ORDINATE EXACT SHUT 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	120 DHW AND DCW SERVING EXISTING LAV TO REMAIN.
④	400 DCW SERVING EXISTING WATER CLOSET TO REMAIN.
⑤	EXISTING SPRINKLER HEAD TO BE REMOVED. TYPICAL.
⑥	EXISTING SPRINKLER HEAD TO BE RELOCATED.



1 PLUMBING & FIRE PROTECTION DEMO PLAN
M2-01 1 : 50

PLUMBING AND FIRE PROTECTION SHEETNOTES:	
NOTE	DESCRIPTION
①	NEW 120 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 PLUMBING & FIRE PROTECTION PLAN
M2-01 1 : 50



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



Seal & Permit



Vancouver Calgary Edmonton Dauphin Winnipeg Toronto Thunder Bay Ottawa Mississauga Oshawa Peterborough Truro Halifax
Queen's Quay Terminal
207 Queen's Quay West, Suite 615
Toronto, Ontario, M5J 1A7
Tel: 416-598-2620
Fax: 416-598-5394
www.mcw.com

5	ISSUED FOR PERMIT & TENDER	2023-09-20
4	ISSUED FOR PRE-TENDER REVIEW	2023-09-08
3	ISSUED FOR PROGRESS	2023-09-01
2	ISSUED FOR CLIENT REVIEW 90%	2023-08-29
1	ISSUED FOR CLIENT REVIEW 60%	2023-08-18
NO.	ISSUED FOR	DATE

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

Copyright © 2014 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



Seal & Permit



Vancouver Calgary
Edmonton Dauphin
Winnipeg Toronto
Thunder Bay
Ottawa Mississauga
Oshawa Truro
Halifax

Queen's Quay Terminal
207 Queen's Quay West, Suite 615
Toronto, Ontario, M5J 1A7
Tel: 416-598-2020
Fax: 416-598-5394
www.mcw.com

4	ISSUED FOR PRE-TENDER REVIEW	2023-09-08
3	ISSUED FOR PROGRESS	2023-09-01
2	ISSUED FOR CLIENT REVIEW 90%	2023-08-29
1	ISSUED FOR CLIENT REVIEW 60%	2023-08-18

NO. ISSUED FOR DATE

Drawing History

Scale As indicated

Project

GBC Athletics Renovation

George Brown College, Casa Loma Campus, 160 Kendral Ave.

Toronto, ON, M5R 1M3

Drawing Title

HVAC PLANS

Project Number Drawing Number

23183 M3-00

Copyright © 2014 GEC Architecture

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. 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. DUCTWORK SIZES INDICATE CLEAR INSIDE DIMENSIONS.
2.	BALANCE ALL GRILLES AND DIFFUSERS IN PROJECT AREA TO VOLUMES INDICATED. REFER TO ARCHITECTURAL FOR PROJECT PHASING AND CONSTRUCTION SCHEDULE.
3.	
4.	
5.	

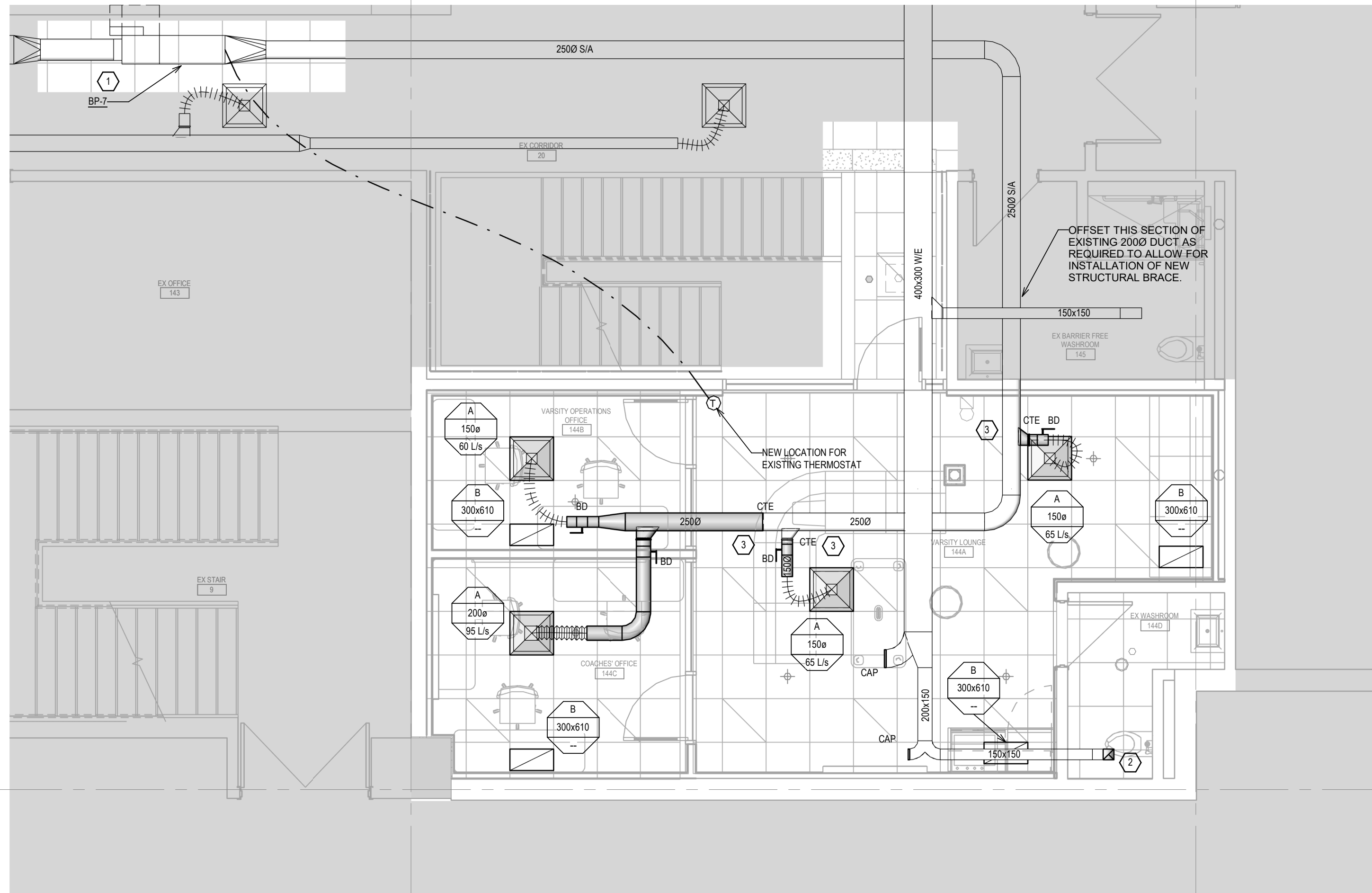
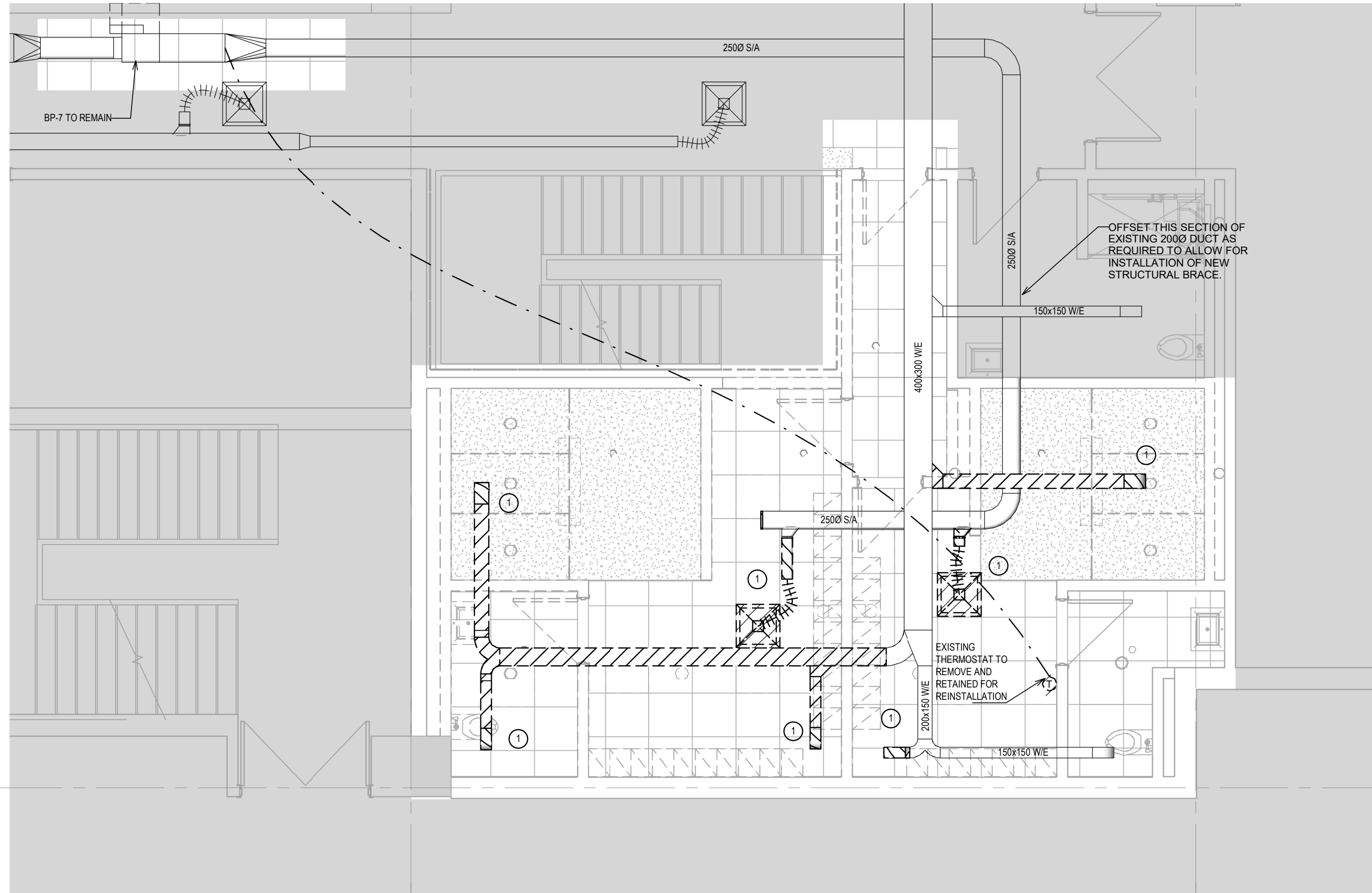
HVAC DEMOLITION SHEETNOTES:	
NOTE	DESCRIPTION
1	EXISTING DIFFUSER/GRILLE AND DUCTWORK TO BE REMOVED. CAP BACK TO APPROX LOCATION SHOWN ON PLAN.

1 HVAC DEMO PLAN
M3-00 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.

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

2 HVAC PLAN
M3-00 1 : 50



GENERAL POWER	
	15A, U-GROUND SINGLE RECEPTACLE
	15A, U-GROUND DUPLEX RECEPTACLE
	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
	120/208V/1/2/3/0 AMP DRYER OUTLET
	120/208V/1/2/4/0 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
	15A, U-GROUND SPLIT WIRED DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
	15A, U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
	(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	
	LINEAR FLUORESCENT LUMINAIRE, TYPE 'A' AS SPECIFIED. HATCHING DENOTES CONNECTED TO EMERGENCY/NIGHT LIGHTING CIRCUIT
	CEILING MOUNTED LUMINAIRE, TYPE 'A' AS SPECIFIED
	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
	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
	HAIR DRYER
	HAND DRYER
	CONTACTOR - SIZE AND NUMBER OF POLES AS SPECIFIED
	RELAY
	THERMOSTAT PROVIDED AND WIRED BY ELECTRICAL
	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
	RECESSED MOUNTED ELECTRICAL PANEL - 'SP' DENOTES PANEL DESIGNATION
	SURFACE MOUNTED ELECTRICAL PANEL - 'SP' DENOTES PANEL DESIGNATION

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

FIRE ALARM SYSTEM	
	PULL STATION
	FLUSH MOUNTED BELL
	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
	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
	DOOR HOLDER
	MOTORIZED DAMPER BY MECHANICAL AND WIRED BY ELECTRICAL COORDINATE/CONFIRM EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS
	RECESSED MOUNTED - FIRE ALARM CONTROL PANEL
	SURFACE MOUNTED - FIRE ALARM CONTROL PANEL
	RECESSED MOUNTED - FIRE ALARM ANNUNCIATOR PANEL
	SURFACE MOUNTED - FIRE ALARM ANNUNCIATOR PANEL
	RECESSED MOUNTED - CENTRAL MONITORING AND EVACUATION FACILITIES
	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
	KW/HR METER
	DIGITAL METERING SYSTEM
	EMERGENCY LIGHTING INVERTER
	UNINTERRUPTABLE POWER SUPPLY

SECURITY AND ACCESS SYSTEMS	
	SECURITY SYSTEM CONTROL PANEL
	KEY PAD
	CARD READER
	INFRA RED READER
	REQUEST TO EXIT BUTTON
	EGRESS MOTION DETECTOR
	DOOR CONTACT
	PATIO DOOR CONTACT
	WINDOW CONTACT
	OVERHEAD DOOR CONTACT
	POWER LOCK
	ELECTRIC STRIKE
	AUDIBLE ALARM
	MOTION DETECTOR
	GLASS BREAK DETECTOR
	WAVE ACTUATOR
	CLOSED CIRCUIT CAMERA 'B' - DENOTES BOX ENCLOSURE 'E' - DENOTES ELEVATOR CORNER MOUNT 'P' - DENOTES PEDESTAL MOUNT 'PTZ' - DENOTES PAN TILT ZOOM 'W' - WEDGE ENCLOSURE
	SECURITY SYSTEM MONITOR
	MAGLOCK DEVICE
	MAGLOCK RESET SWITCH
	KEY SWITCH
	CODE BLUE SPEAKER PHONE
	CODE BLUE INTEGRATED UNIT C/W ACCESSORIES, POLE OR PEDESTAL MOUNTED
	ALARM SOUNDER
	PANIC ALARM

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

MISCELLANEOUS	
	INDICATES EXISTING DEVICE TO REMAIN
	INDICATES EXISTING DEVICE TO BE MOVED
	INDICATES EXISTING DEVICE IN RELOCATED POSITION
	INDICATES EXISTING DEVICE TO BE DEMOLISHED
	INDICATES CONDUIT
	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
	AUDIO VISUAL OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER
	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
	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, DUST 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 ITS RATED LOAD.

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



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



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
NO.	ISSUED FOR	DATE

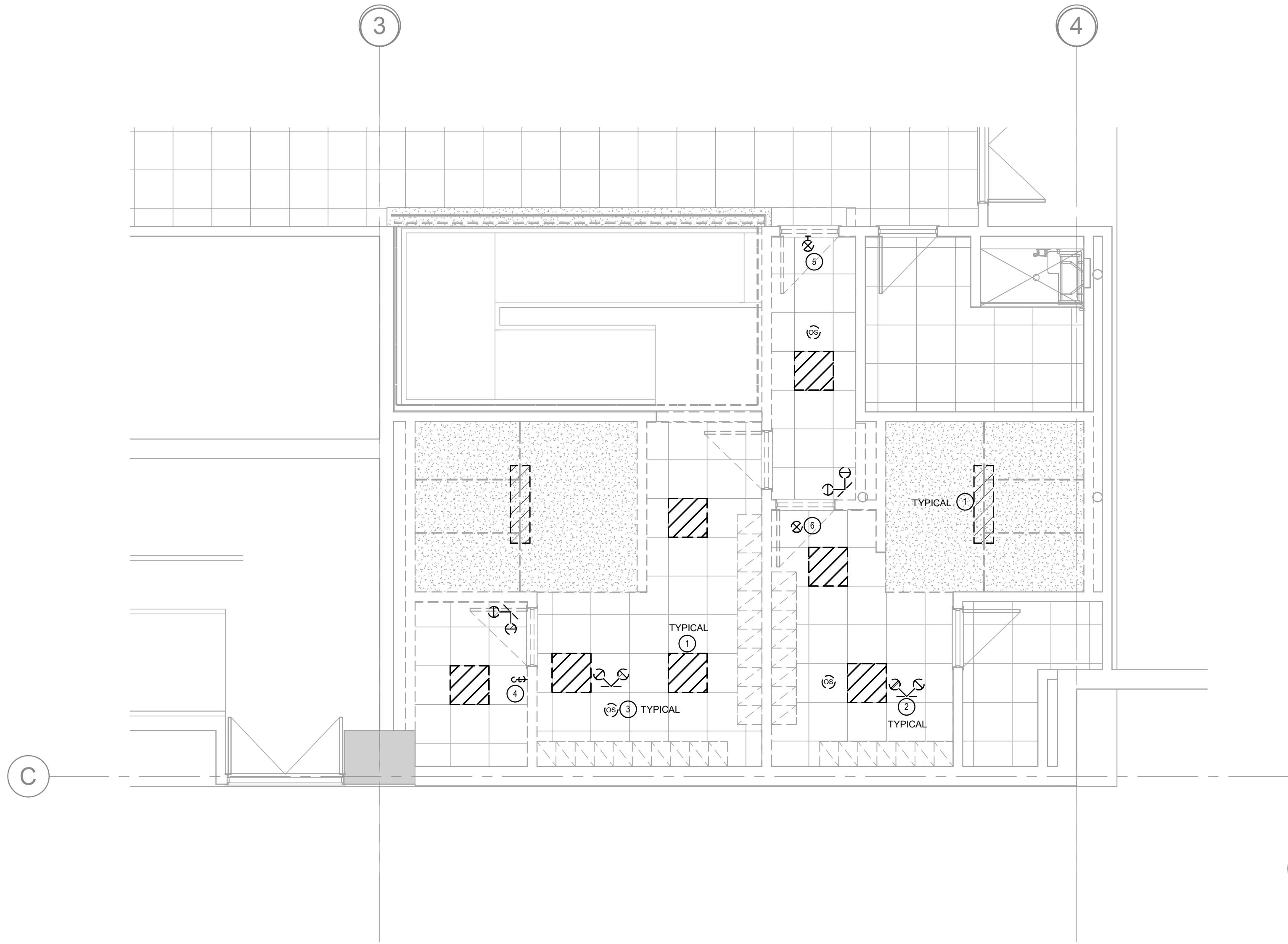
Drawing History	Checked By
Scale	DN
1 : 1	
Project	

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	Drawing Number
23183	E0-00

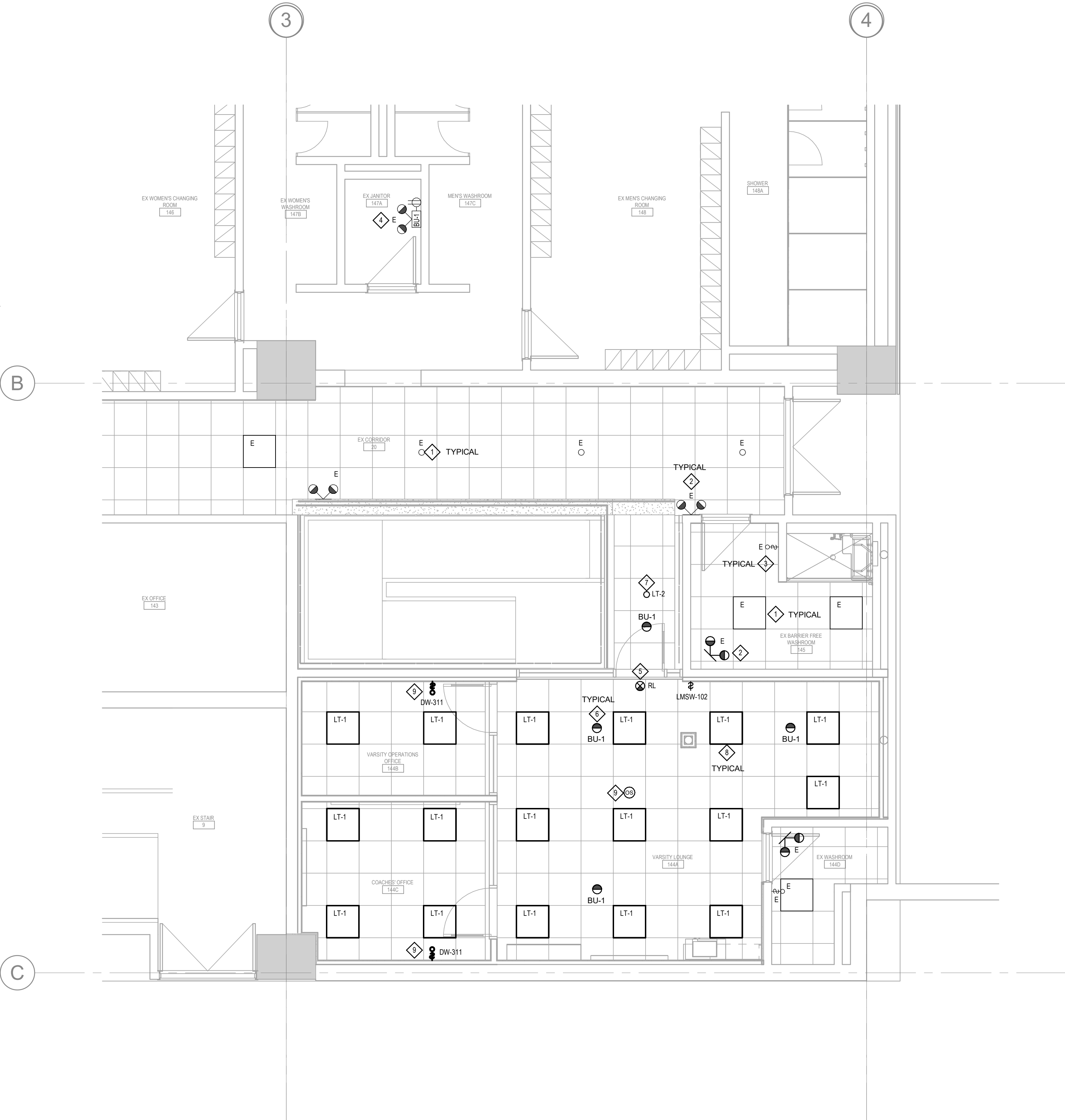


1 LIGHTING DEMO PLAN
E1-00 1 : 50

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 EMERGENCY 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	LUMENS	DIMMING TYPE	REMARKS
								TYPE			
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	LTDCCR2X2-LED-840K-022L-JUNV	120 V	42	4000K	80	LED	2600	0-10V	



2 LIGHTING PLAN
1 : 50



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



Seal & Permit



MCW Consultants Ltd.

Vancouver Calgary Edmonton Dauphin Winnipeg Toronto Thunder Bay Ottawa Mississauga Oshawa Peterborough
207 Queen's Quay West, Suite 615
Toronto, Ontario, M5J 1A7
Tel: 416-598-2620 Fax: 416-598-5394
www.mcw.com

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
NO.	ISSUED FOR	DATE

Drawing History

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

Copyright © 2014 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



Seal & Permit



Vancouver Calgary
Edmonton Dauphin
Winnipeg Toronto
Thunder Bay
Ottawa Mississauga
Oshawa Truro
Halifax

Queen's Quay Terminal
207 Queen's Quay West, Suite 615
Toronto, Ontario, M5J 1A7
Tel: 416-598-2620
Fax: 416-598-5394
www.mcw.com

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
NO.	ISSUED FOR	DATE

Drawing History

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

POWER & SYSTEMS PLANS

Project Number

23183

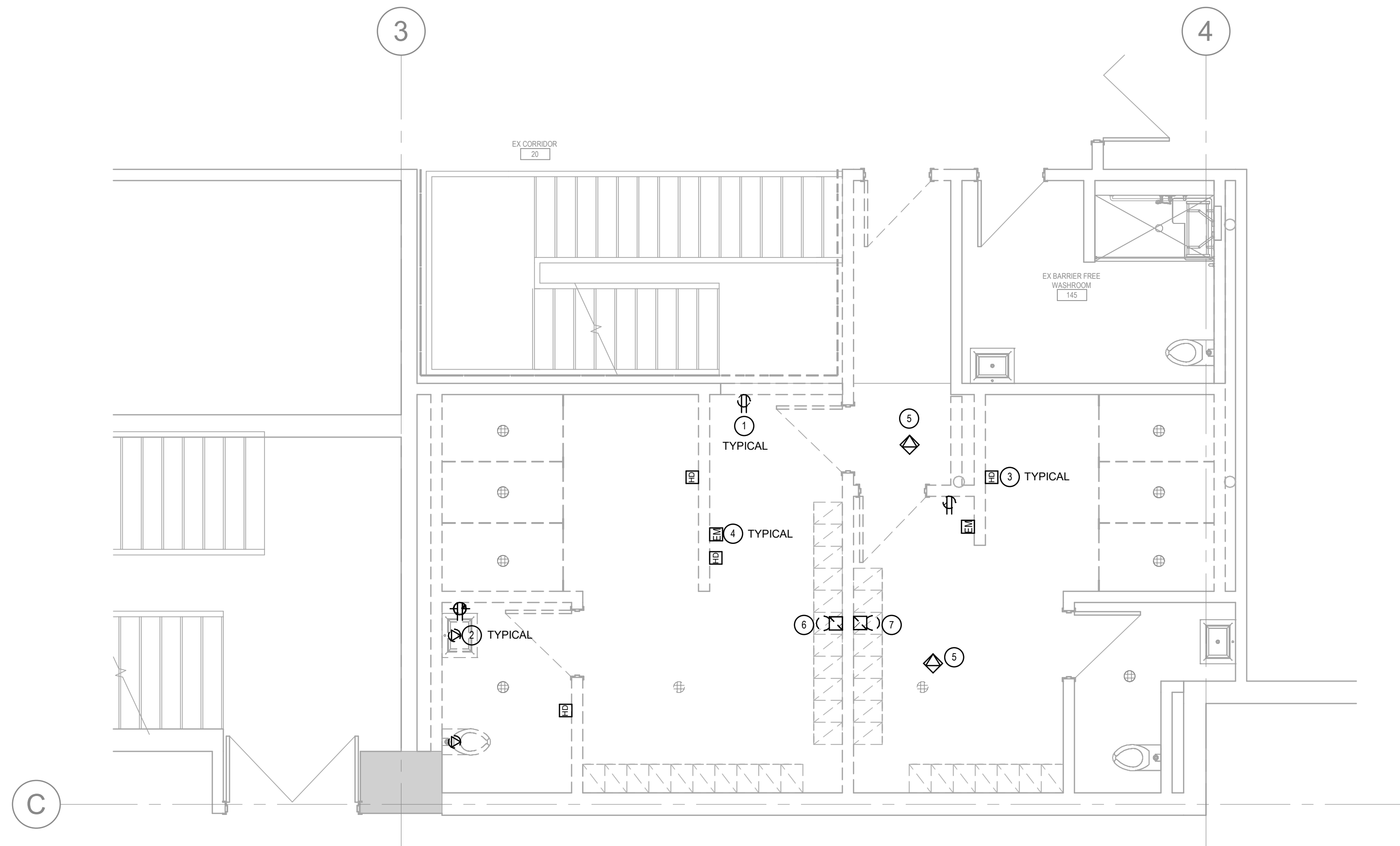
Drawing Number

E2-00

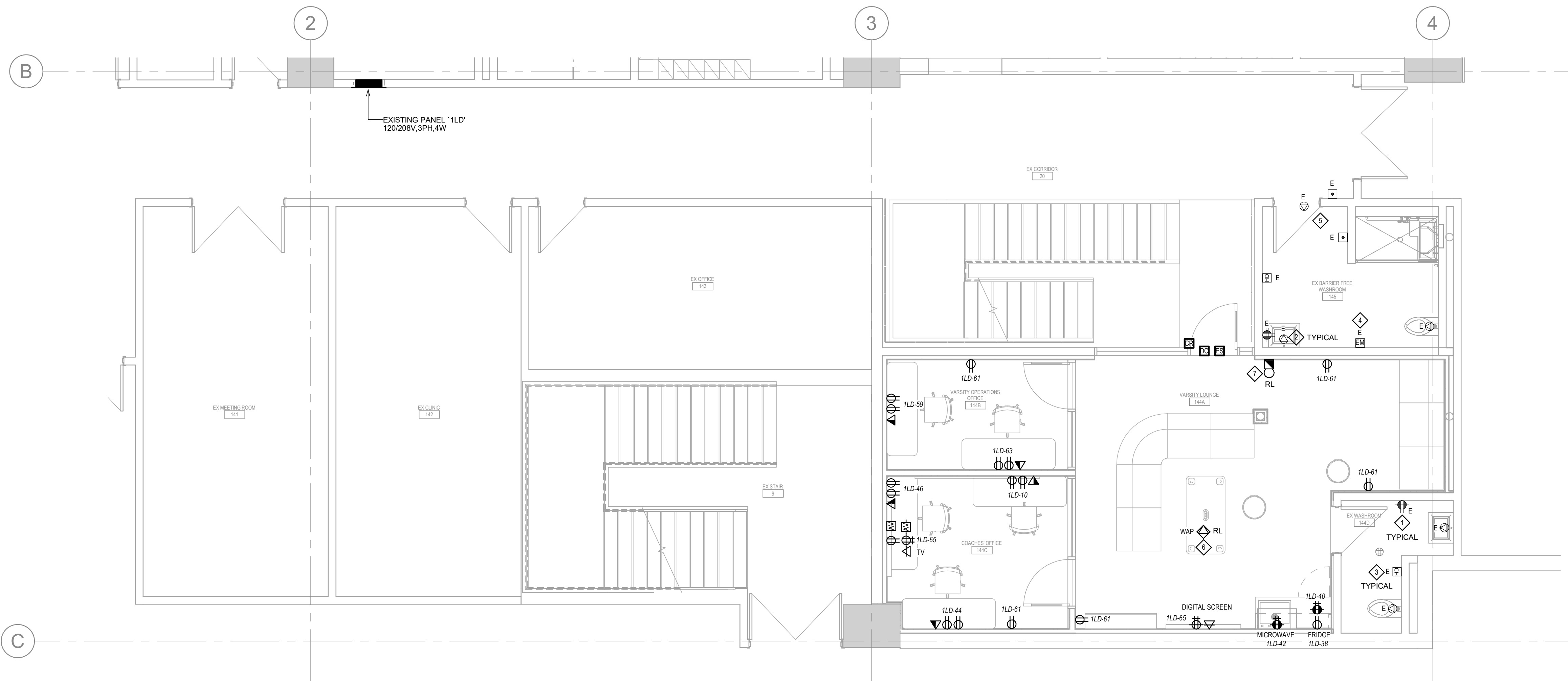
Copyright © 2014 GEC Architecture

- POWER & SYSTEMS DEMOLITION KEY NOTES:**
- EXISTING POWER OUTLET TO BE DISCONNECTED & DEMOLISHED.
 - EXISTING POWER CONNECTIONS FOR AUTO FLUSH/ FAUCET TO BE DISCONNECTED AND DEMOLISHED.
 - EXISTING HAND DRYER TO BE DISCONNECTED AND RETURNED TO OWNERS.
 - EXISTING EMERGENCY CALL SYSTEM TO BE DISCONNECTED AND RETURNED TO OWNERS.
 - EXISTING WAP (WIRELESS ACCESS POINT) DEVICE TO BE REMOVED AND RELOCATED TO SUIT NEW CEILING.
 - EXISTING FIRE ALARM BELL TO BE DISCONNECTED & DEMOLISHED.
 - EXISTING FIRE ALARM BELL TO BE RELOCATED TO SUIT NEW PARTITION.

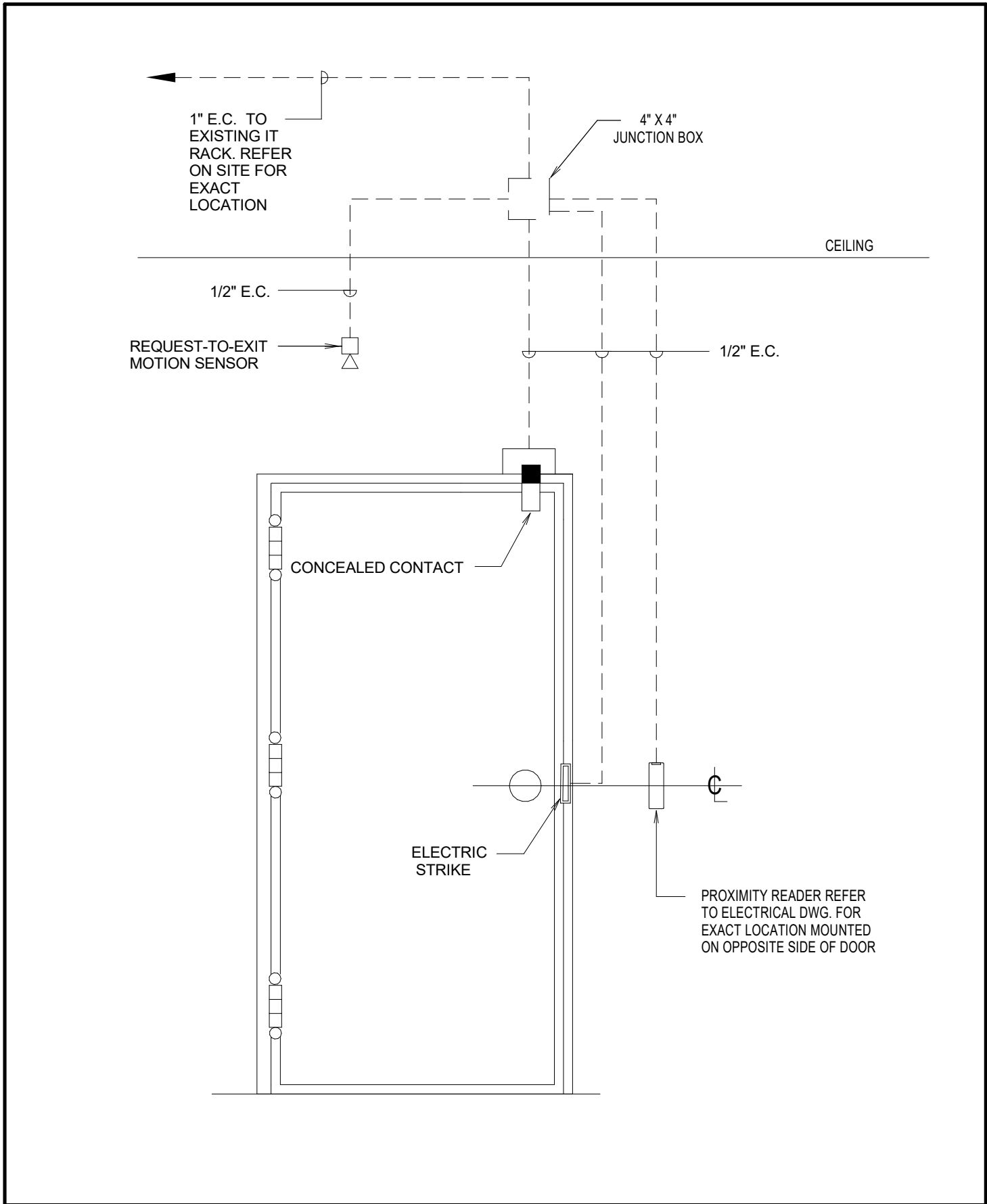
- POWER & SYSTEMS CONSTRUCTION KEY NOTES:**
- EXISTING POWER OUTLET TO REMAIN.
 - EXISTING POWER CONNECTIONS FOR AUTO FLUSH/ FAUCET TO REMAIN.
 - EXISTING HAND DRYER TO BE REMAIN.
 - EXISTING EMERGENCY CALL SYSTEM TO BE REMAIN.
 - EXISTING PUSH BUTTONS & DOOR OPENER TO REMAIN.
 - RELOCATED WAP (WIRELESS ACCESS POINT) DEVICE TO SUIT NEW CEILING. EXTEND CABLE & CONDUIT TO SUIT.
 - RELOCATED FIRE ALARM BELL TO SUIT NEW PARTITION. EXTEND WIRING & CONDUIT TO SUIT.



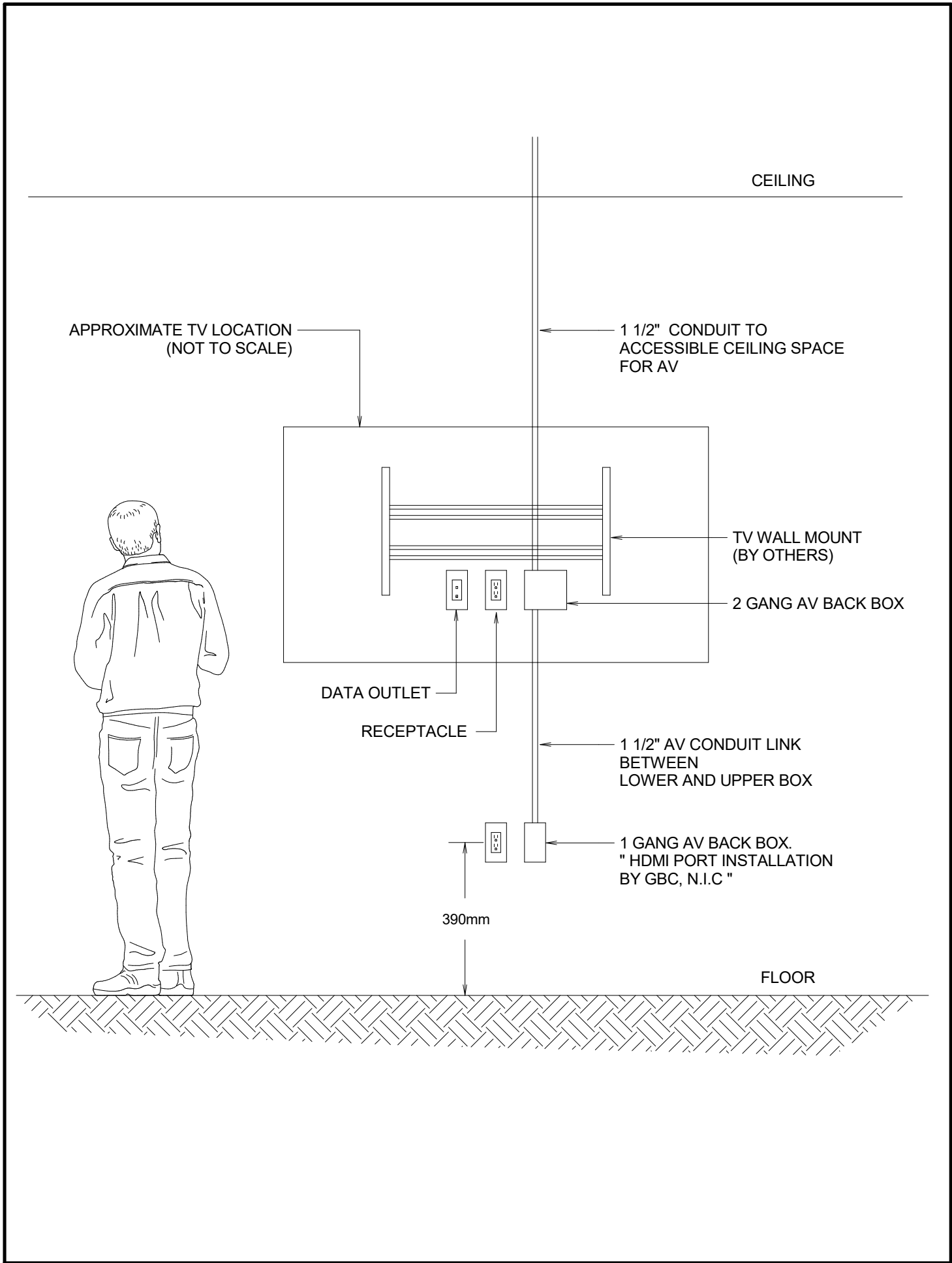
1 POWER & SYSTEMS DEMO PLAN
E2-00 1 : 50



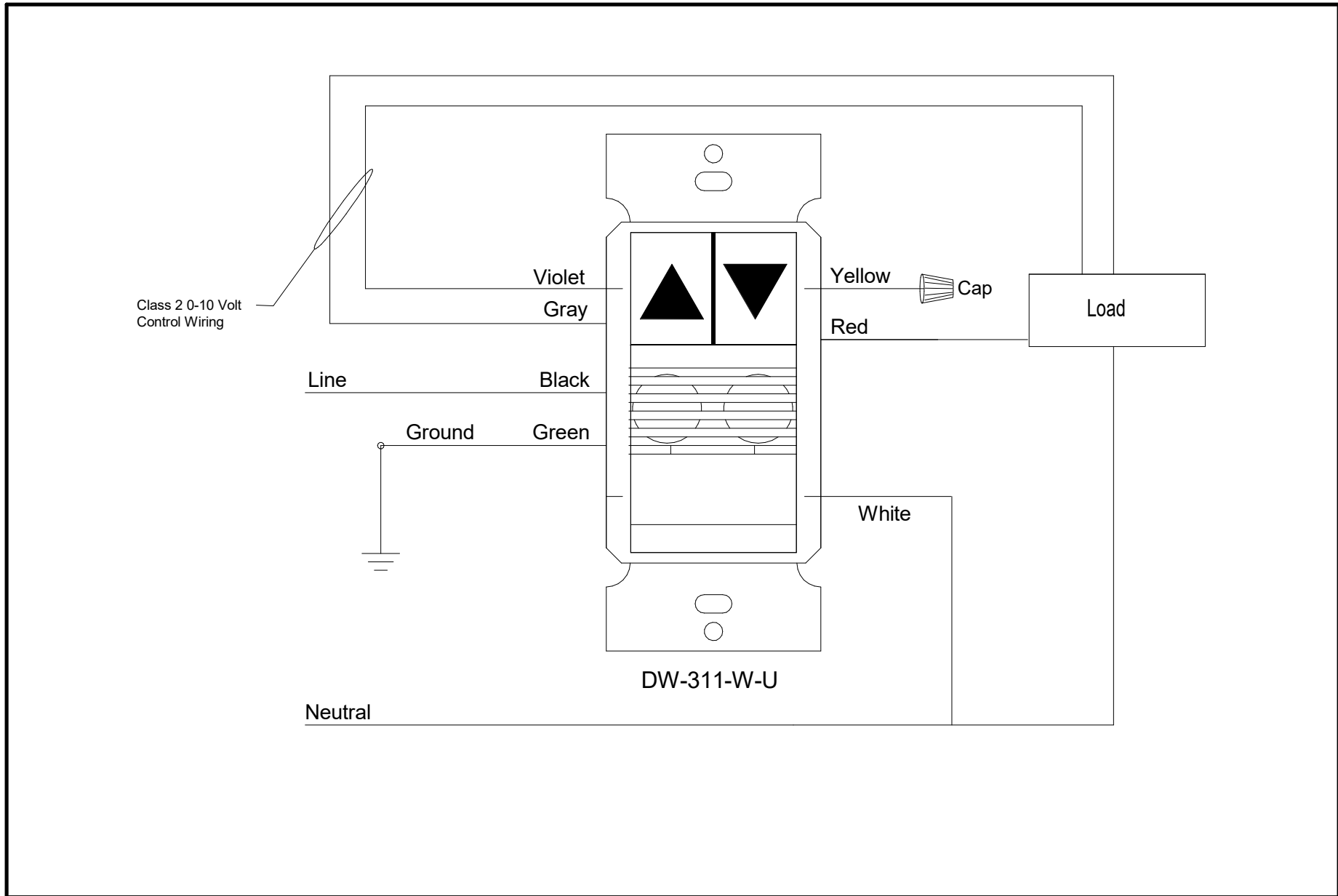
2 POWER & SYSTEMS
E2-00 1 : 50



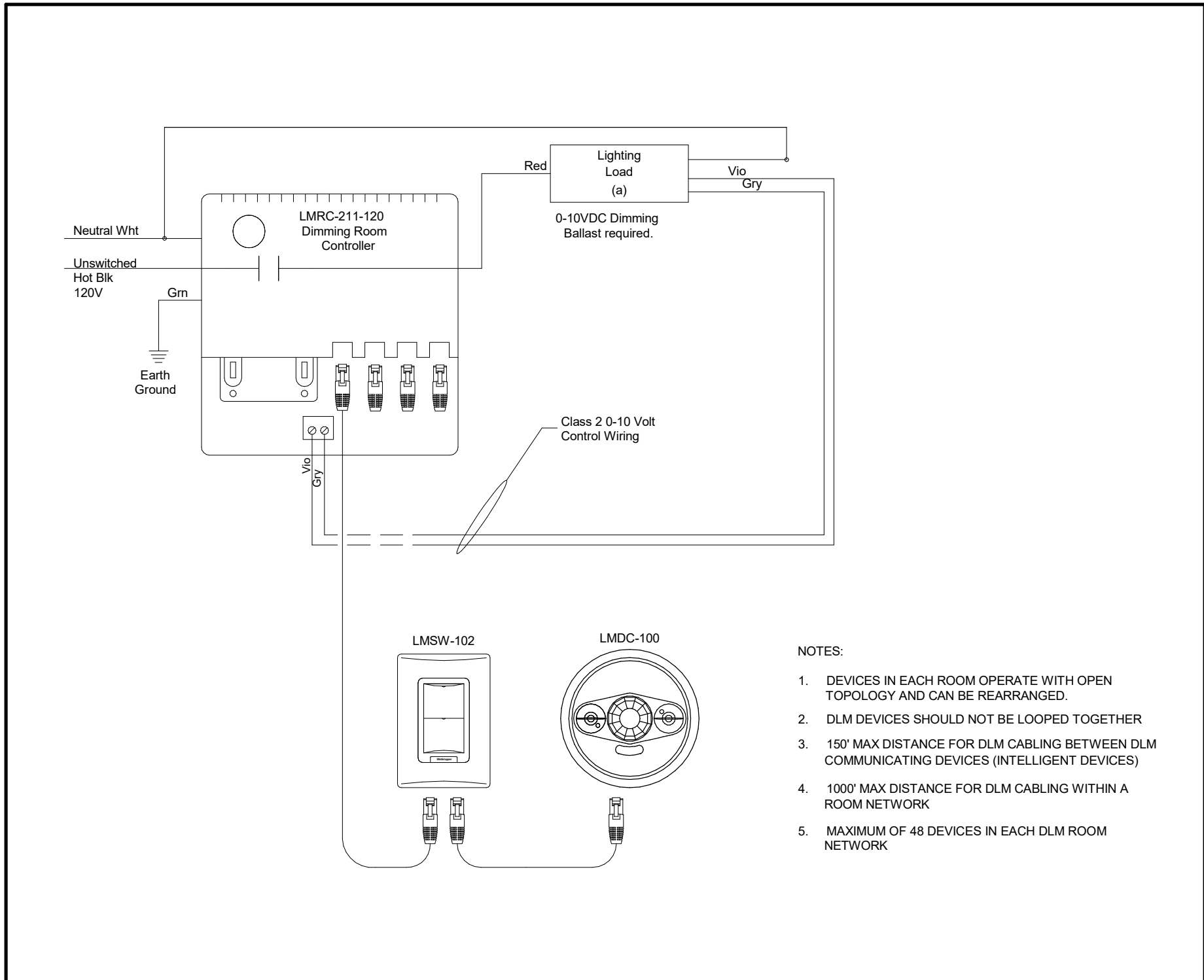
4 CARD ACCESS CONTROL SYSTEM ROUGH-IN
1 : 1



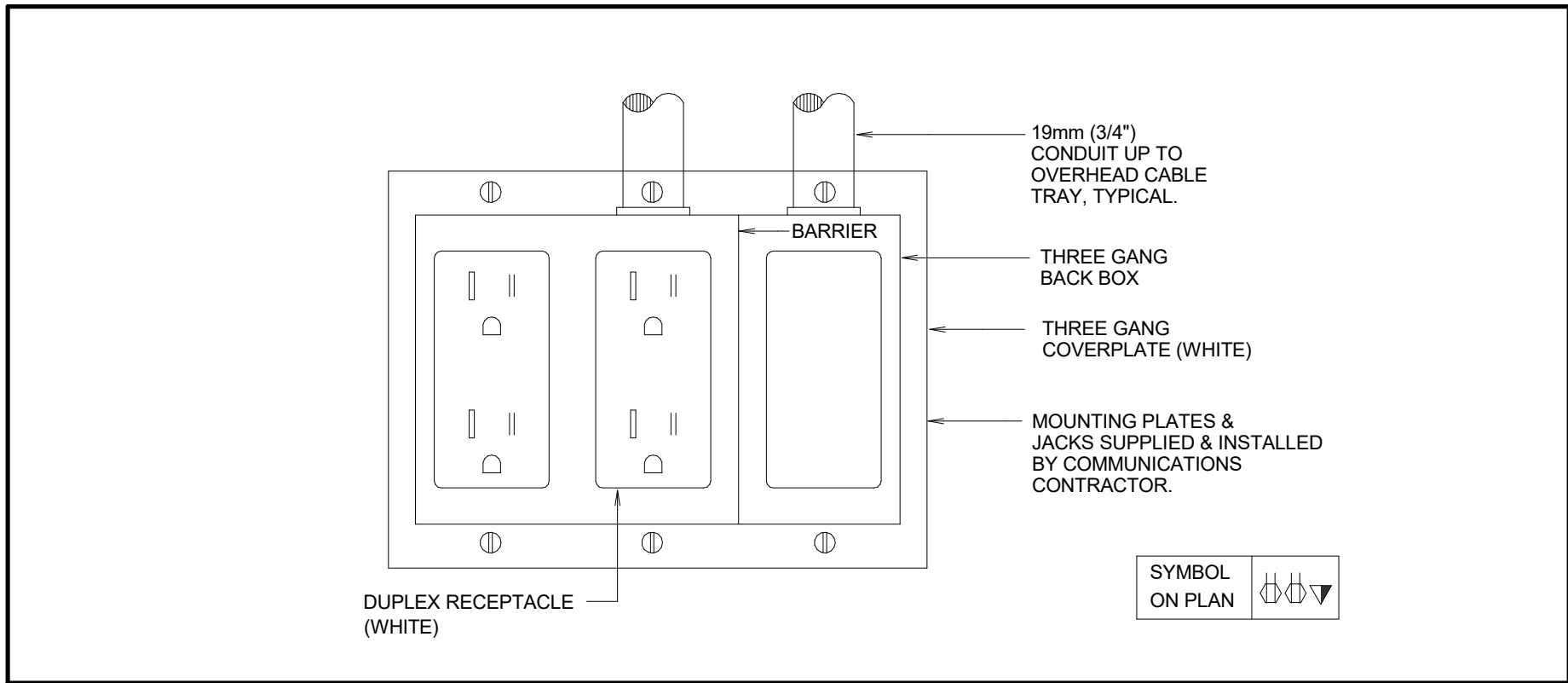
5 TYPICAL TV ELEVATION
1 : 1



1 LIGHTING CONTROL DETAIL (TYPICAL FOR SMALL OFFICES)
1 : 1



2 LIGHTING CONTROL DETAIL (TYPICAL FOR LARGE SPACES)
1 : 1



3 THREE GANG POWER & COMM. WALL OUTLET DETAIL
1 : 1

Branch Panel: 1LD										
Location: EX CORRIDOR 20					Volts: 120/208 Wye				A.I.C. Rating:	
Supply From:					Phases: 3				Mains Type: MCB	
Mounting: Recessed					Wires: 4				Mains Rating: 225	
Enclosure: Type 1					No. Circuits 72				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.										

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



Seal & Permit



MCW Consultants Ltd.
Vancouver Calgary
Edmonton Dauphin
Winnipeg Toronto
Thunder Bay
Ottawa Mississauga
Oshawa Truro
Halifax
Queen's Quay Terminal
207 Queen's Quay West, Suite 615
Toronto, Ontario, M5J 1A7
Tel: 416-598-2620
Fax: 416-598-5394
www.mcw.com

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
NO.	ISSUED FOR	DATE

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

Copyright © 2014 GEC Architecture